CHARTER TOWNSHIP OF YPSILANTI

PLANNING COMMISSION

7200 S. Huron River Drive, Ypsilanti, MI 48197

REGULAR MEETING AGENDA

Tuesday, February 8, 2022
6:30 P.M.

If you need any assistance due to a disability please contact the Planning Department at least 48 hours in advance of the meeting at planning@ytown.org or 734-485-3943.

1. CALL TO ORDER

2. ROLL CALL

3. APPROVAL OF THE JANUARY 11, 2022 REGULAR MEETING MINUTES

4. APPROVAL OF AGENDA

5. PUBLIC HEARINGS

   A. **SPECIAL CONDITIONAL USE - GROUP DAYCARE HOME – 8275 SOUTH HURON RIVER DRIVE** – **K-11-22-255-113** —TO CONSIDER THE SPECIAL CONDITIONAL USE PERMIT APPLICATION OF MS. ABEIR NIMER IN ORDER TO PERMIT A GROUP DAYCARE HOME, PROVIDING CARE FOR UP TO TWELVE (12) CHILDREN, FOR A SITE ZONED R-4, ONE-FAMILY RESIDENTIAL, LOCATED AT 8275 SOUTH HURON RIVER DRIVE.

6. OLD BUSINESS

7. NEW BUSINESS

   A. **SITE PLAN AMENDMENT – FAÇADE UPDATE – 2243 ELLSWORTH ROAD – K-11-18-100-003—**SITE PLAN AMENDMENT TO REVIEW REQUEST TO REPLACE EXISTING EFIS FAÇADE WITH AN ALUMNIMUM COMPOSITE MATERIAL AT ROUNDTREE VILLAGE SHOPPING CENTER.

   B. **PRELIMINARY SITE PLAN – 10635 TEXTILE ROAD – K-11-24-400-002/003**—TO CONSIDER A REQUEST TO CONSTRUCT A 183,000 SQUARE FOOT LAST MILE DISTRIBUTION CENTER

8. OPEN DISCUSSION FOR ISSUES NOT ON THE AGENDA

   A. CORRESPONDENCE RECEIVED
   B. PLANNING COMMISSION MEMBERS
   C. MEMBERS OF THE AUDIENCE

9. TOWNSHIP BOARD REPRESENTATIVE REPORT

10. ZONING BOARD OF APPEALS REPRESENTATIVE REPORT

11. TOWNSHIP ATTORNEY REPORT

12. PLANNING DEPARTMENT REPORT

13. OTHER BUSINESS

14. ADJOURNMENT

Please Note: This meeting is being recorded

CHARTER TOWNSHIP OF YPSILANTI
ZONING BOARD OF APPEALS
Tuesday, January 11, 2021
6:30 pm

COMMISSIONERS PRESENT

Sally Richie, Chair - EXCUSED
Bill Sinkule, Vice Chair
Larry Kreig, Secretary
Larry Doe
Muddasar Tawakkul - EXCUSED
Gloria Peterson- Board Liaison

STAFF AND CONSULTANTS

Jason Iacoangeli, Planning Director
Amy Steffans, Planning and Development Coordinator

i. CALL TO ORDER/ESTABLISH QUORUM

MOTION: Mr. Sinkule called the meeting to order at 6:30pm.

II. APPROVAL OF NOVEMBER 23, 2021 MEETING MINUTES

MOTION: Ms. Peterson **MOVED** to approve the previous Board Meeting Minutes as presented. The **MOTION** was **SECONDED** by Mr. Doe and **PASSED** by unanimous consent.

III. APPROVAL OF AGENDA

Mr. Kreig proposed to revise the agenda, but moving Item 7A, and placing under Public Hearing under Item 5, as 5B.

MOTION: Mr. Kreig **MOVED** to approve the agenda as revised, but moving Item 7A, and placing under Public Hearing under Item 5, as 5B. The **MOTION** was **SECONDED** by Mr. Doe and **PASSED** by unanimous consent.

IV. PUBLIC HEARING

A. **SHOOT POINT BLANK - 660 JAMES L HART PARKWAY (PACEL K-11-17-361-021)** – TO CONSIDER REQUEST TO AMEND THE PLANNED DEVELOPMENT STAGE II APPROVAL ALONG WITH ASSOCIATED DEVELOPMENT AGREEMENT TO PROVIDE FOR AN INDOOR GUN RANGE (INDOOR RECREATION), CLASSROOM, AND RETAIL SALES.

B. **SHOOT POINT BLANK - 660 JAMES L HART PARKWAY (PACEL K-11-17-361-021) -** FULL SITE PLAN – TO CONSIDER A FULL SITE PLAN FOR CONSTRUCTION OF A 15,019 SQUARE FOOT BUILDING TO PROVIDE FOR AN INDOOR GUN RANGE (INDOOR RECREATION), CLASSROOM, AND RETAIL SALES.

Mr. Lacoangeli, informs the Board that Shoot Point Blank has changed their name to Range U.S.A. Range U.S.A are looking to setup their operations at 660 James L. Hart Parkway. This location is an existing parking lot, adjacent to the bank supply building, which is encumbered by a plan development that is reflective to both parcels. The Planning Development (PD) Agreement for Bank Supply does make reference to the parcel in the legal description, but it doesn't specify any conditions on the parcel. Mr. Lacoangeli, stated that research has been done, and the underlying zoning for the property comes under B3 – General Business. As part of the PD language, in the zoning ordinance, a plan development depends on the underlying zoning for its uses. From a zoning standpoint, the underlying zoning for the parcel prior to the PD being developed was B3 – General Business, and indoor recreations are permitted under B3 district.

Mr. Lacoangeli, commented the reason for having the public hearing, in order to take any comments from the public with regards to the proposed project. The project will be reviewed alongside with the Zoning Board and the applicants, over the site plan. The Planning Department would request the Zoning Board to take a formal action on the preliminary site plan, as well as recommend the preliminary approval by the township Board of Trustees. If, approved then the Planning Department, would place this on the township board agenda for January 18th, 2022 to be reviewed by the Township Board of Trustees per the plan development, ordinance language.

Mr. Lacoangeli gave a background on the project. The project is a 15,000 Square Feet building, which includes 20 indoor shooting lanes, modern technology, classrooms (sessions on safety/firm arm safety course) and a retail sales area. Mr. Lacoangeli stated that the applicants have met all of the preliminary site plan requirements per the Township's planning consultant's review. They have the required parking, lighting and landscaping. The applicants would need the opinion of the Planning Commission on the loading / unloading space.

Mr. Lacoangeli informed the Board that the applicants have addressed all the requirements per the ordinance, and their operational hours, which would not be inappropriate to the neighborhood. The applicants are using high quality building material towards the construction of the building. Mr. Lacoangeli mentioned that Ken Knuckles (Project Management Team) has mentioned on changing some of the shades of the bricks on the building to a darker brown, in order to give relief to some of the wall signage. The applicants use a specific orange color as part of their identity. The Township, had informed the applicants that they did not want orange to

play the dominant role in the façade, and rather stick to natural brick tones, which coordinates with the buildings situated in the corridor.

Mr. Lacoangeli mentioned that OHM has reviewed the plan from a preliminary engineering standpoint, and has recommended the approval for the preliminary site plan. The applicant has addressed all the comments presented to them by OHM related to utilities. There were few issues that needed to be addressed with regards to the size of the water main, after discussion with the applicant and the engineer, this can be changed prior to the final site plan and detailed engineering. The fire suppression would need to be upsized from a regular domestic water lead.

Mr. Lacoangeli concluded to say that the applicants have provided a letter acknowledging all the deficiencies in the comment letters, and they would address all of those issues prior to final site plan and detailed engineering.

Ms. Peterson wanted a clarification on the whether the project would have back door for accessible delivery, since it doesn't have a loading/unloading area. Mr. Lacoangeli stated that a typical zoning ordinance, would state the required dimensions on a site plan. He also mentions that the applicant would be in a better position to address how their business operation works.

Ken Knuckles (Development Management Group – Nashville), representing Compton Addy (Developers, purchasing the property and developing it for Range U.S.A, who would be the tenants). Mr. Knuckles stated to the Board on the plans, of the redevelopment on the parcel. Majority of the work would on the development of the back half of the parcel, reworking on some of the parking lot. Landscaping and new lighting for the whole parcel is in the pipeline. Due to the redevelopment, the amount of runoff is been decreased. Mr. Knuckles, walked through the floor plan and pointed out to the back left corner, which is designated for receiving door. On the left side of the building, that has a drive aisle that goes right along the sidewalk on the side, there is parking on the outside of the drive, away from the building. Mr. Knuckles, clarified on the deliveries for Range USA, when the store is initially opened, tractor trailers would come in with guns and shooting accessories, to be sold in the retail area. During this time the store would be stopped. From that point forward, they may get one or two tractor trucks a year. They will get deliveries by smaller trucks (UPS, FedEx), several times a week. Any trucks, that would come are going to be for a short period of time. He also stated that there won't be any changes to the architectural plan or the buildings material used, it is a change in the color scheme that's been proposed. Mr. Knuckles also mentioned that Compton Addy would like to get the proposals in place and start constructions late March/April, this would be a 6 month build in time.

Mr. Sinkule questioned on the safety protocols during deliveries of guns and ammunition – Mr. Knuckles, stated that the property would have security cameras inside the building and in the parking lot. The deliveries are scheduled before or after business hours. In terms of sound proofing, due to the 20-shooting lanes, the noise that is heard outside would be muffled, due to the insulation and proofing, this would not exceed the municipal noise ordinance. The hours of operation would be from 10:00 am – 10:00 pm (Monday – Friday), 10:00am – 8:00 pm (Sundays).

Mr. Doe, had concerns on the safety, during delivery periods – Mr. Knuckles, reassured personnel would be present and facilitate the deliveries. And there would security cameras installed inside and outside of the buildings. And the parking lots are well lit with security cameras. The floor plan is been replicated from the Utah project. Number of employees would be around 30, which also includes employees on the sales floor. There will be certified instructors and safety officers inside the range areas, operating the classrooms.

Mr. Knuckles and John Zilch, reinstated on the high-level security at Range USA. He also mentioned that most of the instructors are former police/army, and most of them carry concealed weapons. Range USA, works closely with local law and federal law enforcement.

PUBLIC HEARING OPENED AT 7:05 PM

- Tonia Rose, 6680 Crane Road, Ypsilanti (General Manager at Ann Arbor Arms): Ms. Rose enquired on how Ann Arbor Arms was different. Mr. Knuckles, clarified saying that most gun stores, will let you leave, if they haven't received a clear background check. Ann Arbor Arms, creates a safe environment and encourages safe activity.

PUBLIC HEARING CLOSED AT 7:09 PM

Mr. Kreig, verified with Mr. Lacoangeli, whether the technical objections raised by YCUA and the fire department, is been mapped to his satisfaction. Mr. Lacoangeli stated that it has met all expectation, after he met with the engineers, and the issue would be met by the applicant during the time of detailed engineering. He also mentioned that Ken Knuckles and his group have provided a letter, stating that they are aware of the remaining review comments, in the board packet. These comments would be addressed at the time of final detailed engineering approval.

MOTION: Mr. Kreig **MOVED** to recommend approval of preliminary site plan and PD stage one to the Ypsilanti Township Board of Trustees for Range USA. An indoor gun range to be located at 660 James L Hart Pkwy, parcel K 1117 360 1021 with the following conditions:

1. The applicant needs to address the remaining review comments from consultants, agencies and departments.
2. Interior and exterior camera systems shall be held for 45 days and be made available to law enforcement on request
3. The development is to include a minimum of two EV parking spaces as part of the overall off street parking arrangement.
4. Range USA will agree to use eco-friendly landscaping and landscaping products for the development.
5. The applicant shall obtain all applicable outside agency permits.

The **MOTION** was **SECONDED** by Mr. Doe and **PASSED** by unanimous consent.

MOTION: Mr. Kreig, **MOVED** to approve the request for a preliminary site plan for Range USA be located at 660 James L Hart Pkwy, parcel K 1117 360 1021 with the following conditions:

1. The applicant needs to address the remaining review comments from consultants, agencies and departments.
2. Interior and exterior camera systems shall be held for 45 days and be made available to law enforcement on request
3. The development is to include a minimum of two EV parking spaces as part of the overall off street parking arrangement.
4. Range USA will agree to use eco-friendly landscaping and landscaping products for the development.
5. The applicant shall obtain all applicable outside agency permits.

The **MOTION** was **SECONDED** by Mr. Doe and **PASSED** by unanimous consent.

MOTION: Mr. Kreig **MOVED** to approve the recommendation to the Plant Township Board of trustees for planned development stage one approval. The **MOTION** was **SECONDED** by Mr. Doe and **PASSED** by unanimous consent.

IV. OLD BUSINESS

DRAFT YPSILANTI TOWNSHIP ZONING ORDINANCE AND ZONING MAP—TOCONSIDER REVISED ZONING ORDINANCE AND MAP PER COMMENTS RECEIVED AT THE NOVEMBER 23, 2021 PUBLIC HEARING.

Mr. Lacoangeli, informed the Board on the memo that was received from Carlisle Wortman. Megan Masson-Minock has put together a comprehensive list of the changes made from the time of public hearing till date. The changes also included the comments from staff planning commissioners or from residents, business Owners and Township board members.

Mr. Lacoangeli briefly touched on some of the changes.

- Article 15 has been updated with separate sub sections and form-based districts.
- On the Michigan Ave regulation plan, 86 wired in the industrial park form-based design have been changed from site type A to site type C.
- Other comments and concerns by the public have been addressed.

Mr. Lacoangeli informs the Board on certain issues brought up by the Planning Commission with regards to parking minimums, campground stays short term rentals. These are considered as hot issues in the planning circles across the state of Michigan. In the interest of moving the zoning ordinance forward, considering these issues as amendments at a later date with in-depth discussion would help in adopting new standards.

Mr. Lacoangeli, requests the board to pass a resolution, recommending adoption of the ordinance by the Township Board if they were comfortable with the state of the zoning ordinance and the comments that was received from the public. The State Act requires the Planning Commission to recommend adoption via a resolution, since it warranties to resolve in recommending the documents for 2 readings, and its publication in the paper for 30 days, before it takes effect.

Mr. Kreig shared his concern on the parking standards and it has to be discussed on how parking would meet the needs of the community and the developers.

RESOLUTION: Mr. Sinkule

2022 – 01 Recommendation of adoption; Ypsilanti Township Zoning Ordinance.

- Whereas, the Township code of Ordinances Appendix A, commonly known and cited as The Charter Township of Ypsilanti Zoning Ordinance, contains provisions to regulate land development, to establish district designations for building form, parcel size, and to promote health, safety and general welfare.
- The Township have completed a detailed review of the Township Zoning Ordinance and Zoning map, and have recommended changes and updates to the zoning ordinance involving a series of amendments to the zoning ordinance, language and map.
- Whereas, the proposed zoning ordinance and map amendments implement the goals and objectives of the 2040 Ypsilanti Township Master plan, future land use plan.
- Whereas, at its regularly scheduled meeting, held November 23rd, 2021, the Commission held a public hearing pursuant to the state of Michigan Zoning Enabling Act.

Let it be resolved at the regularly scheduled meeting held January 11th, 2022.

The Ypsilanti Township Planning Commission, recommended approval of new zoning ordinance and zoning map to the Ypsilanti Township Board of trustees.

MOTION: Mr. Doe **MOVED** to approve the resolution 2022 - 01. The **MOTION** was **SECONDED** by Ms. Peterson and **PASSED** by unanimous consent.

Mr. Lacoangeli stated that Clerk Row has requested for the 1st reading to be on January 18th, or February 1st, 2022 meeting agenda. The publication would be done right after the 1st reading. The 2nd reading is on February 1st, 2022. After the 2nd reading, it would need a newspaper article that gives 30 days' notice to the public prior to the zoning ordinance and map actually becoming law.

VI. NEW BUSINESS

ADOPTION OF REGULAR PLANNING COMMISSION MEETING DATES FOR THE 2022 CALENDAR YEAR.

MOTION: Mr. Doe **MOVED** to approve the adoption of the regular Planning Commission meeting dates for the 2022 calendar year. The **MOTION** was **SECONDED** by Ms. Peterson and **PASSED** by unanimous consent.

VII. OPEN DISCUSSION FOR ISSUES NOT ON THE AGENDA

A. CORRESPONDENCE RECEIVED - None

B. PLANNING COMMISSION MEMBERS - None

C. MEMBERS OF THE AUDIENCE - None

VIII. TOWNSHIP BOARD REPRESENTATIVE REPORT

Ms. Peterson, informed the members that the Township would be giving free COVID test kits, to the township residents at 2057 Tyler Rd, between 9:00 am and 12:00 pm.

IX. ZONING BOARD OF APPEALS REPRESENTATIVE REPORT

None to report

X. TOWNSHIP ATTORNEY REPORT

None to report

XI. PLANNING DEPARTMENT REPORT

Mr. Lacoangeli informed the Board on an upcoming public hearing for KOA Campground. KOA has submitted an application for Class A - Legal nonconforming designation which is basically an instrument where use was legally established or lawfully established years ago when it first went into business, was legally established but has since become non-conforming due to the zoning, they would like to expand their operation, not in a sense of buying more land but to do development inside their property. The Planning Department is in the process of reviewing it, and will submit the report at the next public hearing.

XII. OTHER BUSINESS

None to report

XIII. ADJOURNMENT

MOTION: Ms. Peterson **MOVED** to adjourn at 7:45 pm. The **MOTION** was **SECONDED** by Mr. Doe and **PASSED** by unanimous consent.

Respectfully submitted by Minutes Services

CHARTER TOWNSHIP OF YPSILANTI

OFFICE OF COMMUNITY STANDARDS

Building Safety • Planning & Zoning • Ordinance Enforcement

Staff Report
Group Daycare Home
Special Conditional Use Application
8275 South Huron River Drive

February 8, 2022

CASE LOCATION AND SUMMARY

The Office of Community Standards received an application for special conditional use permit for the purpose of allowing a Group Daycare Home, providing care for up to twelve (12) children, for a site zoned R-4, one-family residential, located at 8275 South Huron River Drive, parcel K-11-22-255-113.

OWNER/APPLICANT

Ms. Abeir Nimer
8275 South Huron River Drive
Ypsilanti, MI 48197

CROSS REFERENCES

Zoning Ordinance citations:

- Article III, Section 306, Schedule of uses
- Article XXI, Section 2119, Special land uses
- Article XVIII, Section 1861, State-licensed residential child and adult care facilities

Michigan Zoning Enabling Act (ZEA) citation:

- MCL 125.3206 Residential use of property; adult foster care facilities; family or group child care home

SUBJECT SITE USE, ZONING AND COMPREHENSIVE PLAN

The subject site is a 0.24-acre corner parcel, zoned in the R-4 single-family residential district, in the Ford Lake Heights neighborhood. The site is improved with a two-story 1,506-square foot single-family residential dwelling with an attached two-car garage. The site is zoned, developed, and used for single-family residential purposes. The front

façade faces South Huron River Drive while the driveway is accessed via Lake Crest Drive.

The applicant currently operates a family day care home from the site. Both the township zoning ordinance and the State of Michigan define a family day care home as *a private home in which at least one but less than seven children are received for care and supervision for periods of less than 24 hours a day, unattended by a parent or legal guardian, except children related to an adult member of the family by blood, marriage, or adoption. It includes a home that gives care to an unrelated child for more than four weeks during a calendar year.* The applicant's submittal documents are attached as Exhibit A.

If approved, the special conditional use request would permit the applicant to expand from the existing family day care home to a group day care home, defined the same as a family day care home with the exception that *more than six but no more than 12 children are given care.*

8275 SOUTH HURON RIVER DRIVE

Staff confirmed February 1, 2022 that site conditions are as depicted in Google images.

Google – June 2019 – View from South Huron River Drive

Google – June 2011 – View from Lake Crest Drive

Direction	Use	Zoning	Master Plan
North	SF Residential	R-4	Neighborhood preservation
South	Ford Heritage Park	R-3	Open space, neighborhood preservation, cluster development
East	SF Residential	R-4	Neighborhood preservation
West	SF Residential	R-4	Neighborhood preservation

SITE HISTORY

On November 12, 2019, the Ypsilanti Township Planning Commission held a public hearing to consider the applicant's request to expand her family day care home to a group day care home; the meeting minutes are attached as Exhibit B. After holding a public hearing the Commission voted to deny the special conditional use request for the following reason: *subject property is within 1,500 feet from another group daycare home or similar facility and contributes to an excessive concentration of the state licensed residential facilities.*

It appears, based on a review of the 2019 staff report, that the ZEA stipulation regarding measuring distance between two licensed group child care homes was misinterpreted. Further discussion of the distance requirement is provided below.

NATURAL FEATURES

No natural features will be impacted by this proposed project.

PROJECT ANALYSIS

The plan has been reviewed by Township staff. We offer the following comment for your consideration.

Per Section 1861 of the township's zoning ordinance, prior to the establishment of a group daycare home, the applicant must apply for and obtain the necessary special conditional use permit. The applicant must meet or exceed the requirements noted within Section 1861 in addition to any other applicable State regulations.

Section 125.3206(4) of the ZEA (Exhibit C) stipulates that a group child care home **shall** be issued a special use permit, conditional use permit, or other similar permit if the group child care home meets all of the following standards:

(4) For a county or township, a group child care home shall be issued a special use permit, conditional use permit, or other similar permit if the group child care home meets all of the following standards:
(a) Is located not closer than 1,500 feet to any of the following:
(i) Another licensed group child care home.

(ii) An adult foster care small group home or large group home licensed under the adult foster care facility licensing act, 1979 PA 218, MCL 400.701 to 400.737.

(iii) A facility offering substance use disorder services to 7 or more people that is licensed under part 62 of the public health code, 1978 PA 368, MCL 333.6230 to 333.6251.

(iv) A community correction center, resident home, halfway house, or other similar facility that houses an inmate population under the jurisdiction of the department of corrections.

Staff comment: The ZEA defines how the 1,500 foot distance is to be measured between group child care homes and the other listed uses:

(10) The distances required under subsection (4)(a) shall be measured along a road, street, or place maintained by this state or a local unit of government and generally open to the public as a matter of right for the purpose of vehicular traffic, not including an alley.

In the 2019, the distance between the subject site and a group daycare home at 5563 Michael Drive was mistakenly measured point-to-point. For purposes of the current request, staff measured this distance driveway-to-driveway along the public right-of-way and determined that the group daycare home on Michael Drive is approximately 1,895 feet away. The subject site does meet the distance standard of 125.3206(4).

(b) Has appropriate fencing for the safety of the children in the group child care home as determined by the local unit of government.

Staff comment: The property has a 4-foot fenced play area in the rear and front side yard. The portion of the fence within the side front yard is nonconforming and no permit has been found for the erection of the fence; no fence would be permitted in the required side front yard. Additionally, the fence appears to be degraded. Staff recommends that a condition of project approval be replacement of the fence with a six-foot tall privacy fence, with a self-closing and self-latching gate, in a location that complies with the zoning ordinance.

(c) Maintains the property consistent with the visible characteristics of the neighborhood.

Staff comment: The standard is met. The applicant has not proposed any changes to the exterior of the home and is consistent with the characteristics of the neighborhood.

(d) Does not exceed 16 hours of operation during a 24-hour period. The local unit of government may limit but not prohibit the operation of a group child care home between the hours of 10 p.m. and 6 a.m.

Staff comment: The standard is met. The applicant proposes operating seven (7) days a week from 6:00 a.m. to 10:00 p.m. (16 hours).

(e) Meets regulations, if any, governing signs used by a group child care home to identify itself.

Staff comment: The standard is met. No signs are proposed nor would they be permitted by the township zoning ordinance, Section 2109, Signs.

(f) Meets regulations, if any, requiring a group child care home operator to provide off-street parking accommodations for his or her employees.

Staff comment: The standard is met. Section 2104 of the township's zoning ordinance requires that two (2) parking spaces be provided for the dwelling unit and one (1) addition space for each caregiver. The applicant will have two (2) assistant caregivers. The subject property complies with a 2-car garage and two (2) off-street parking spaces in the driveway for a total of four (4) off-street parking spaces.

The township's zoning ordinance Section 1861 provides for additional requirements for state-licensed residential child and adult care facilities. Such uses shall meet the following regulations:

a. These facilities, except for adult/child family day care homes, shall be registered with the Ypsilanti Township Community Development Department and shall continually have on file with the township documentation of a valid license as required by the state.

   Staff comment: If approved, the group day care home shall register with the Ypsilanti Township Community Development Department and shall continually have on file with the Township documentation of a valid license as required by the state.

b. Since the state law preempts in this area, these facilities shall be brought into compliance with all state building and fire codes pursuant to State Licensing Rules R400.1831—R400.1835. Documentation of such compliance with state requirements shall be provided.

   Staff comment: If approved, the group day care home shall be brought into compliance with all state building and fire codes pursuant to State Licensing Rules R400.1831—R400.1835. Documentation of such compliance with state requirements shall be provided.

c. The site shall comply with the sign provisions of section 2109.

   Staff comment: No signs are proposed nor would they be permitted by the township zoning ordinance, Section 2109, Signs.

d. Off-street parking shall be provided for the number of employees on site at any one time.

   Staff comment: Township zoning ordinance requires that two (2) parking spaces be provided for the dwelling unit and one (1) addition space for each caregiver. The applicant will have two (2) assistant caregivers. The subject property complies with a 2-car garage and two (2) off-street parking spaces in the driveway for a total of four (4) off-street parking spaces.

e. If located in a single-family residential district, the building shall have an appearance which is nonintrusive and consistent in color, materials, roof-line and architecture, as determined by the planning commission.

Staff comment: The applicant has not proposed any changes to the exterior of the home. The subject property is consistent in appearance with other single-family homes in the neighborhood.

f. Documentation of sufficient indoor classroom, crib or play area meeting state requirements shall be provided. Documentation of approved areas, as licensed by the state, shall be provided.

   Staff comment: The applicant provided documentation of the layout of the home. The documentation of the approved areas shall be licensed by the State.

g. There shall be sufficient outdoor play area to meet state regulations. All required outdoor play areas shall be fenced with a four-foot tall fence, provided that no fence shall be located in a front yard.

   Staff comment: See analysis on page 5.

Township Zoning Ordinance Section 2119.5, Special land uses

The Planning Commission shall review the particular circumstances and facts of each proposed use in terms of the following standards and required findings, and with respect to any additional standards set forth in the ordinance. The Planning Commission shall find and report adequate data, information, and evidence showing that the proposed use meets all required standards and:

a. Will be harmonious, and in accordance with the objectives, intent, and purpose of this ordinance; and

   Staff comment: The subject property is harmonious with the objectives, intent, and purpose of this ordinance and the proposed special conditional use is not proposing to be contrary to the ordinance.

b. Will be compatible with a natural environment and existing and future land uses in the vicinity; and

   Staff comment: The subject property is compatible with the natural environment and existing and future land uses and the proposed special conditional use is not proposing to be contrary to the ordinance.

c. Will be compatible with the township master plans; and

Staff comment: The subject property and proposed use would be compatible with the Township Master Plans. The property is zoned R-4 and the future land use designation is SFR-4.

d. Will be served adequately by essential public facilities and services, such as highways, streets, police and fire protection, drainage ways and structures, refuse disposal, or that the persons or agencies responsible for the establishment of the proposed use shall be able to provide adequately for such services; and

Staff comment: The subject property is an existing home and is served by essential public services. Staff suggests that, if approved, all loading, stopping, and pick-up/drop-off shall occur on Lake Crest Drive; no loading, stopping, or pick-up will occur on South Huron River Drive.

e. Will not be detrimental, hazardous, or disturbing to existing or future neighboring uses, persons, property, or the public welfare; and

Staff comment: While the applicant is proposing to increase the number of children from six (6) to twelve (12), the subject site is a corner lot and if loading, stopping, and pick-up/drop-off occurs on Lake Crest Drive traffic impact is likely to be minimal, particularly given that pick-up and drop-off of children will be staggered.

f. Will not create additional requirements at public costs for public facilities and services that will be detrimental to the economic welfare of the community.

Staff comment: The proposed use would likely not create additional requirements at public costs for public facilities and services that will be detrimental to the economic welfare of the community.

SUGGESTED MOTIONS

The following suggested motions are provided to assist the Commission in making the desired motion of their choice. The Commission may use, add, or reject any conditions suggested herein as they deem appropriate.

Motion to approve:
I move to approve the special conditional use permit request of Ms. Abeir Nimer for the purpose of allowing a Group Daycare Home, providing care for up to twelve (12) children, for a site zoned R-4, one-family residential, located at 8275 South Huron River Drive, parcel, K-11-22-255-113 with the following conditions:

1. The applicant shall agree to enter into a special conditional use agreement outlining the following conditions
    a. The applicant shall supply, prior to operation of a group day care home, to the Office of Community Standards a daycare application and all documentation as required by the daycare application, including but not limited to, scaled and accurate survey drawing, correlated with a legal description and showing all existing buildings, drives, and other improvements; copy of state license; copy of inspection reports, drawings or pictures of the house layout, showing the rooms that will be utilized for the daycare.
    b. Subject site shall be brought into compliance with all state building and fire codes pursuant to state licensing rules.
    c. Use shall comply with township sign ordinance.
    d. Required off-street parking shall be provided during hours of operation.
    e. Outdoor play area shall be provided pursuant to state licensing rules.
    f. All loading, stopping, and pick-up shall occur only on Lake Crest Drive; no loading, stopping, or pick-up shall occur on South Huron River Drive.
    g. Prior to operation of a group day care home, the applicant shall submit an application to Office of Community Standards and shall install a six-foot tall privacy fence in a compliant location. The fence shall be installed with a self-closing, self-latching gate.
2. For the safety of all occupants and upon sufficient notice, the applicant shall permit, prior to operation of a group day care home, the dwelling to be inspected by the Township Building official and/or Fire Marshal to insure compliance with the adopted property maintenance code.

Motion to table:
I move to table the special conditional use permit request of Ms. Abeir Nimer for the purpose of allowing a Group Daycare Home, providing care for up to twelve (12) children, for a site zoned R-4, one-family residential, located at 8275 South Huron River Drive, parcel, K-11-22-255-113 in order to consider the comments presented during this public hearing and to further allow the applicant to resolve the issues noted during this public hearing.

Motion to deny:
I move to deny the special conditional use permit request of Ms. Abeir Nimer for the purpose of allowing a Group Daycare Home, providing care for up to twelve (12) children, for a site zoned R-4, one-family residential, located at 8275 South Huron River Drive, parcel, K-11-22-255-113 following reasons (Commissioner to insert reasons for denial):

Respectfully submitted,

Amy Steffens, AICP
Planning and Development Coordinator

Exhibit A: Applicant's submittal documents
Exhibit B: November 12, 2019 Planning Commission meeting minutes
Exhibit C: MCL 125.3206

EXHIBIT A: APPLICANT'S SUBMITTAL DOCUMENTS

RECEIVED
BY_____
DEC 9 2021
YPSILANTI TOWNSHIP
OCS

Charter Township of Ypsilanti
Office of Community Standards
7200 S. Huron Drive, Ypsilanti, MI 48197
Phone: (734) 485-3943
Website: https://ytown.org

DAYCARE APPLICATION

I. PROJECT LOCATION

Address: 8275 S. Huron River Dr. Parcel ID #: K-11-22-255-113 Zoning _____
Lot Number: K-11-22-255-113 Subdivision: Ford Lake Heights
Describe proposed use: Child Care

If you are using the basement, note the size of the windows: 42 X 42
Names and ages of the helpers: Amnah Saber 26 Eman Saber 20
Days and hours of operation: Mon threw Sunday 6am to 10pm
Is the backyard fenced? (Requirement of the Township is that, at a minimum, the play area must be fenced).

☑ Yes
☐ No

[redacted]

II. APPLICANT/PROPERTY OWNER

Applicant: Abeir Nimer Phone: [redacted]
Address: 8275 S. Huron River Dr City: Ypsilanti State: MI Zip: 48197
Property Owner (if different than applicant): Abeir Nimer Phone: _____
Address: _____ City: _____ State: ____ Zip: _____

III. FEES

Total: $_____ **Breakdown of fee:** **Group day care home: $100**

IV. APPLICANT SIGNATURE

The following are attached to this application:

☑ Name(s) and address(es) of all record owner(s) and proof of ownership.
☑ If applicant is not the fee-simple owner, the owner's signed authorization for application must be attached to this application.
☑ Scaled and accurate survey drawing, correlated with a legal description and showing all existing buildings, drives and other improvements.
☑ Section of Zoning Ordinance involved in this request 2122.(1): _____
☑ Copy of State license.
☑ Copy of inspection reports.
☑ Drawing or pictures of the house layout, showing the rooms that you will utilize for the daycare.

Abeir Nimer — Abeir Nimer — 12-10-2021
Applicant Signature — Print Name — Date

☐ Approved
☐ Denied

_____ _____ _____
Zoning Administrator Signature — Print Name — Date

Please note: Application cannot be appealed to the Board of Appeals. If denied by the Planning Commission, re-application can be made to the Planning Commission after 365 days, after the date of this application, except on the grounds of new evidence or proof of changed conditions found by the Planning Commission to be valid.

Charter Township of Ypsilanti
Office of Community Standards
7200 S. Huron Drive, Ypsilanti, MI 48197
Phone: (734) 485-3943
Website: https://ytown.org

OFFICE USE ONLY

All daycare applications	
☒ The application is filled out in its entirety and includes the signature of the applicant and, if different than the applicant, the property owner. ☐ Name(s) and address(es) of all record owner(s) and proof of ownership. If the applicant is not the property owner, written and signed permission from the property owner is required ☐ A detailed description of the proposed use. ☐ Fees ☐ Section of Zoning Ordinance involved in this request 2122.(1) ☐ Copy of State license. ☐ Copy of inspection reports. ☐ Description of proposed use, including: ☐ Size of basement windows, if applicable ☐ Names and ages of the helpers. ☐ Days and hours of operation. ☐ Indication if the backyard is fenced or not (requirement of the Township is that, at a minimum, the play area must be fenced).	☐ Scaled and accurate survey drawing, correlated with a legal description and showing: ☐ All property lines and dimensions ☐ All existing and proposed structures and dimensions ☐ Locations of drives, sidewalks, and other paved areas on the property and on the adjacent streets ☐ Location and dimensions of the nearest structures on adjacent properties ☐ Easements and dimensions, if applicable ☐ Drawing or pictures of the house layout, showing the rooms that you will utilize for the daycare. ☐ A site plan, if requested by the planning commission

☐ FAMILY – 6 or less
☒ GROUP – 7 to 12

SUPPLEMENTAL APPLICATION INFORMATION
Michigan Department of Licensing and Regulatory Affairs
Bureau of Community and Health Systems

LICENSE NUMBER FOR RENEWAL ONLY

☐ ORIGINAL ☐ RENEWAL ☐ OTHER

SECTION I APPLICANT AND FACILITY INFORMATION:

Applicant Name (Last, First, Middle): Nimer Abeir Mohammad	Birthdate: 9-23-1972	Soc Sec or FED ID Number: [redacted]	Phone Number: [redacted]
Co-applicant Name (If joint):	Birthdate:	Soc Sec or FED ID Number:	Phone Number:
Address (Street Number & Name): 8275 S. Huron River Dr.	City: Ypsilanti	State: MI	Zip Code: 48197
Name of Adult Who Will Assist in an Emergency: Reda Fawzy	Telephone: [redacted]	Age: 75 years	
Address (Street Number & Name): 5124 Applewood Dr.	City: Ypsilanti	State: MI	Zip Code: 48197
Assistant Caregiver, If Any: Amnah Jaber	Age: 26	Assistant Caregiver, If Any: Eman Jaber	Age: 20

LIST ALL PERSON(S) LIVING IN YOUR HOME AND RELATIONSHIP

Name	Birthdate	Relationship	Name	Birthdate	Relationship
Amnah Jaber	[redacted]	daughter			
Eman Jaber	[redacted]	daughter			

Water Type: (check one) ☐ Well ☒ Public

Sewer Type: (check one) ☐ Septic ☒ Public

Water Heater (check one) ☒ Gas ☐ Electric

Year Home was Built:

Heat Type: (check all that apply) ☐ Gas ☐ Electric ☐ Propane ☐ Wood ☐ Forced Air ☐ Boiler

Date of Furnace Inspection: 10-22-2021

Have you been previously or are you presently licensed for children or adults? ☐ No ☒ Yes (License No.) ▶ DF810385317

Have you applied for any other license to care for children or adults? ☒ No ☐ Yes (License No.) ▶

Number of Children for whom you wish to be licensed: 12

Who will provide food? I will

Length of time in present home: 21 years

List room names and sizes for children's use: See Seperate Sheet

Basement ☐ No ☐ Yes

Where will children sleep/nap? Describe sleeping arrangements. Toddlers on Cot's Infants in Pack&Plays

Directions to Home (Indicate Nearest Intersection).

Days and Time of Operation (indicate a.m./p.m.):		
Sunday	From: 6 am	To: 10 pm
Monday	From: 6 am	To: 10 pm
Tuesday	From: 6 am	To: 10 pm
Wednesday	From: 6 am	To: 10 pm
Thursday	From: 6 am	To: 10 pm
Friday	From: 6 am	To: 10 pm
Saturday	From: 6 am	To: 10 pm

SECTION II – PROGRAM AND TRAINING INFORMATION

What will the children do during the day? Describe planned daily activities including provisions for outdoor play. List toys/materials – attach a separate sheet, if necessary.

See Separate Sheet

How do you plan to supervise children at all times (in your home, outdoors, on field trips, etc.) – attach a separate sheet, if necessary.

Me and my 2 daughters Will No field trips

Training (Check all that apply)

☒ Have Completed: ☒ Infant & Child CPR ☒ Adult CPR ☒ First Aid Training

Name of Training Agency: American CPR & First Aid — Date Card Received: 10-17-2020

Name of Training Agency: American CPR & First Aid — Date Card Received: 10-17-2020

☐ Have Not Completed: ☐ Infant & Child CPR ☐ Adult CPR ☐ First Aid Training

I have ☒ /have not ☐ completed 10 hours of training annually.

All assistant caregivers have ☒ /have not ☐ completed 5 hours of training annually.

Applicant/Licensee Signature: Abeir Nimer — Date

Co-Applicant/Licensee Signature — Date

Authority: 1973 PA 116
Completion: Required
Penalty: Applicant cannot be licensed/registered

LARA is an equal opportunity employer/program.

ZONING APPROVAL FOR GROUP CHILD CARE HOMES

Michigan Department of Licensing and Regulatory Affairs
Bureau of Community and Health Systems

Licensee Name: Abeir Nimer

Licensee Address: 8275 S. Huron River Dr.
Ypsilanti, MI. 48197

License Type: DG – Group Child Care Home (capacity 7-12 children)

Zoning Authority:

According to the Michigan Zoning Enabling Act, 2006 PA 110, a group child care home located in a county or township shall be issued a special use permit, conditional use permit, or other similar permit if the group child care home meet specific standards. A group child care home located in a city or village may be issued a special use permit, conditional use permit, or other similar permit.

Please complete the lower portion of this form and return this completed form to the licensee/applicant.

If you have any questions or concerns, please contact the Michigan Department of Licensing and Regulatory Affairs, Bureau of Community and Health Systems, at 517-284-9730.

Thank you.

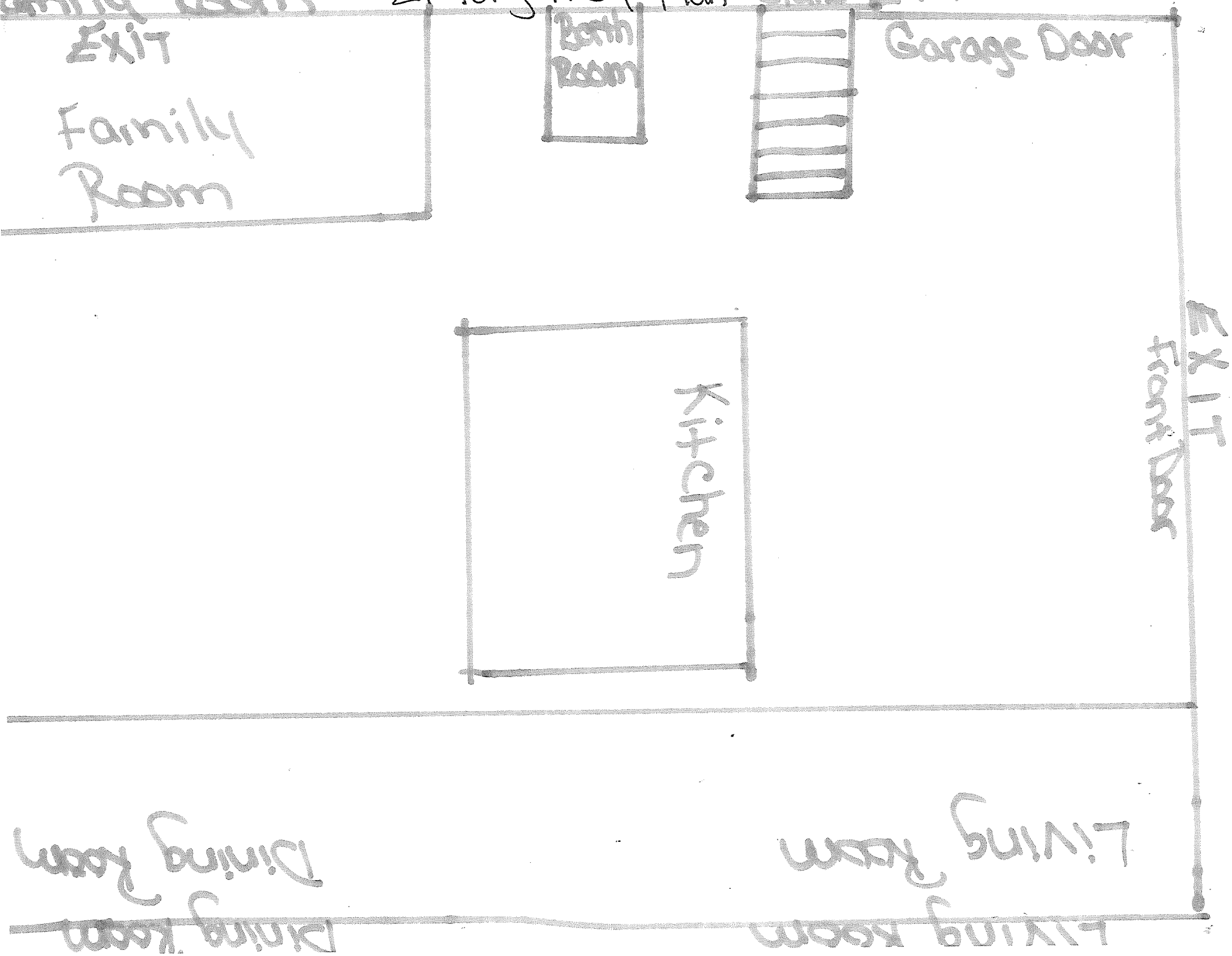
☐ Location is APPROVED by the local zoning authority.
☐ Location is DISAPPROVED by the local zoning authority.
☐ City, township or county is unzoned.

Signature of Zoning Authority or City, Township, County Manager for Unzoned Communities	Date	Telephone Number

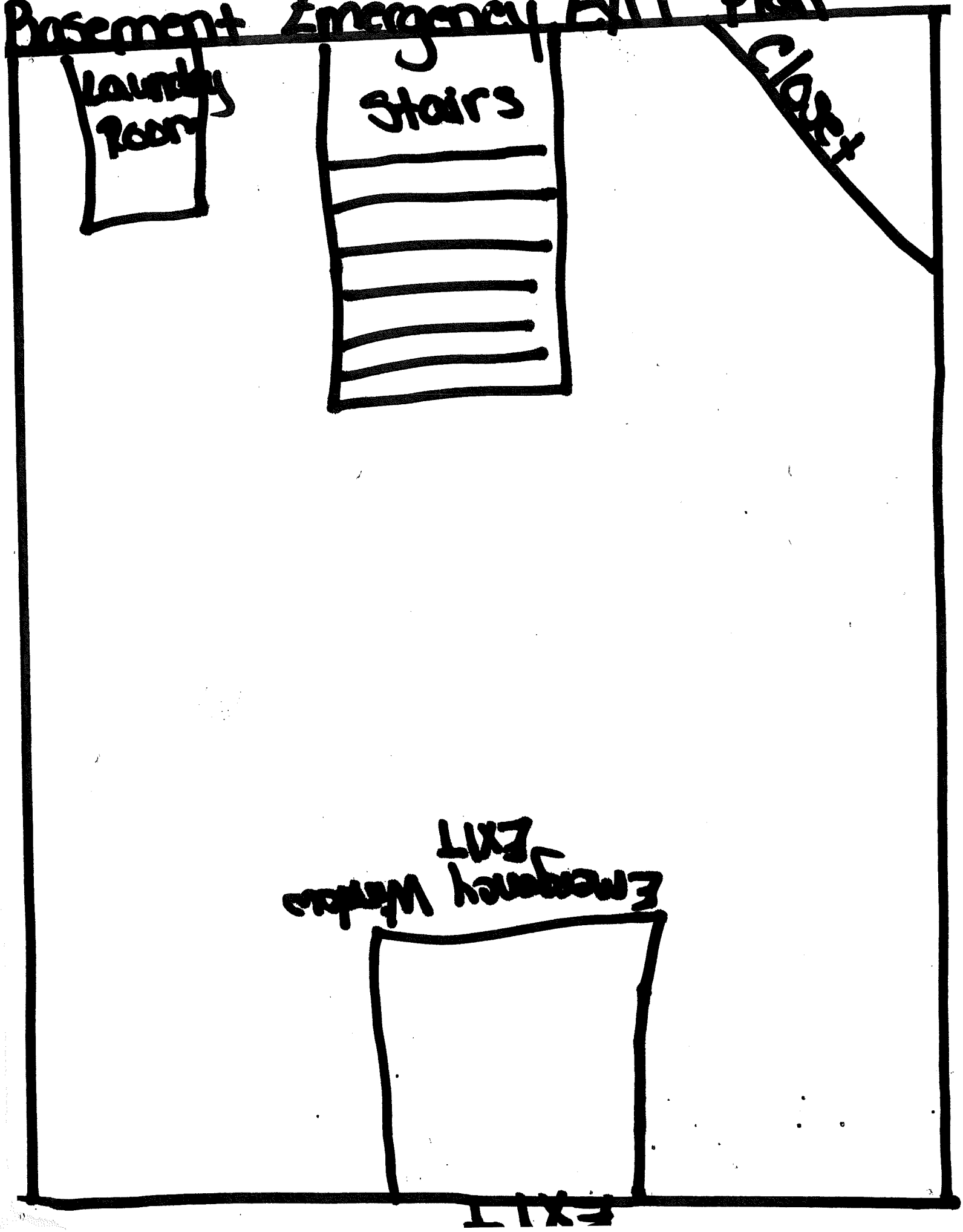
Printed Name of Zoning Authority Authority or City, Township, County Manager for Unzoned Communities	Jurisdiction (City, Township)

Authority: 1973 PA 116 Completion: Required Penalty: Applicant cannot be licensed/registered	LARA is an equal opportunity employer/program.

Emergency Plan



Basement Emergency Exit Plan



2nd Bedrom

3rd Bedroom

Hallbathroom

Stairs

Master bedroom

master bedroom
Emergency Plan
bathroom
stairs
3rd bedroom
2nd bedroom

In & Out
ENERGY MANAGEMENT, INC.

HEATING & COOLING
Commercial & Residential • Refrigeration
Duct Fabrication • Restaurant Ventilation
(313) 218-6452
inandoutenergy@gmail.com
20507 Williamsburg St. • Dearborn Hts. • MI 48127

CUSTOMER'S ORDER NO.	PHONE	DATE
		10-22-21

NAME: ABIR NIMER

ADDRESS: 8275 S HURON RIVER DR
YPSILANTI MI 48197

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE.RET'D.	PAID OUT

QTY.	DESCRIPTION	PRICE	AMOUNT
	Unit mdl# PCCU-LD12N1058		
	SER # FEVM185417		
	check unit wiring and condition		
	found O/K		
	check unit operation found ok		
	check unit heat exchanger with single		
	Gas analizer		
	found 0.0 ppm		
	checked by MAZEN HVACR.		
	Lic # 71-11925		
	Exp 8-30-22		
		TAX	0
		TOTAL	35 00

I have the authority to order the above work and do so order as outlined above. It is agreed that the seller will retain title to any equipment or material furnished until final & complete payment is made, and if settlement is not made as agreed the seller shall have the right to remove same and the seller will be held harmless for any damages resulting from removal there of.
Non-payment will void all warranties and seller responsibilty. Buyer is responsible for any and all legal fees and court costs that may incur.

RECEIVED BY

All claims and returned goods MUST be accompanied by this bill.

Thank You

PRINTED BY **MEDIA GOALS (734) 469-4848**

Basement Size

BASEMENT SIZE 23 feet long
18 feet wide

EMERGENCY EXIT WINDOW LOCATED IN BASEMENT

ABBEY'S DAYCARE
8275 S HURON RIVER DR
YPSILANTI , MI.48197
[redacted]

American CPR Care Association
We Provide Quality Healthcare

A324930

CPR/AED, Standard First Aid,
and Bloodborne Pathogens (BLS)

Abeir Nimer

This card certifies that the above individual has successfully completed the requirements in accordance with American CPR Care Association's curriculum.

10/17/2020	**10/17/2022**
Issue Date	Renewal Date

Instructor Signature

Holder's Signature

Call 911 in case of a medical emergency
Call 1-800-222-1222 in a poison emergency
For CPR/AED or First Aid training information
call 1-888-808-9109 or visit cprcare.com

American CPR Care Association
Renewal Recommended every 2 years

TEXAS A&M AGRILIFE EXTENSION

Certificate of Completion

This certificate is awarded to

Abeir Nimer

For successfully completing the online course

Activity-Based Support for Children with Different Developmental and Functional Needs Year 2

Date of Completion: Sunday, October 18, 2020
Clock Hours: 2.00

Jeff Hyde, Ph.D., Director
Texas A&M AgriLife Extension Service

EXHIBIT B: NOVEMBER 12 2019 PLANNING COMMISSION MEETING MINUTES

CHARTER TOWNSHIP OF YPSILANTI
PLANNING COMMISSION
MINUTES OF THE NOVEMBER 12, 2019 REGULAR MEETING

Chair Jason Iacoangeli called the regular meeting to order at 6:31 pm in the Ypsilanti Township Civic Center Board Room 7200 S. Huron River Drive, Ypsilanti Township.

Commissioners Present: Chair Jason Iacoangeli and Commissioners Gloria Peterson, Bill Sinkule and Stan Eldridge

Commissioners Absent: Commissioners Laurence Krieg, Sally Richie and Muddasar Tawakkul

Others in Attendance: Angela King, Township Attorney; Megan Masson-Minock, Carlisle-Wortman Associates; Elliot Smith, OHM; Michael Radzik, OCS Director; Charlotte Wilson, Planning and Development Coordinator

1. CALL TO ORDER

2. ROLL CALL

3. APPROVAL OF THE OCTOBER 22, 2019 REGULAR MEETING MINUTES

A motion was made by Commissioner Eldridge supported by Commissioner Peterson to approve the minutes of the October 22, 2019 Regular Meeting. The motion carried unanimously.

4. APPROVAL OF AGENDA

A motion was made by Commissioner Sinkule supported by Commissioner Peterson to approve the agenda. The motion carried unanimously.

5. PUBLIC HEARINGS AND PLAN REVIEW

A. SPECIAL CONDITIONAL USE – GROUP DAYCARE HOME – 8275 SOUTH HURON RIVER DRIVE – TO CONSIDER THE SPECIAL CONDITIONAL USE PERMIT APPLICATION OF MS. ABEIR NIMER IN ORDER TO PERMIT A GROUP DAYCARE HOME, PROVIDING CARE FOR UP TO TWELVE (12) CHILDREN, FOR A SITE ZONED R-4, ONE-FAMILY RESIDENTIAL, LOCATED AT 8275 SOUTH HURON RIVER DRIVE, PARCEL K-11-22-255-113.

Charlotte Wilson, Planning and Development Coordinator, said the property is currently operating as a family daycare home for up to 6 kids. The applicant proposed to operate 7 days a week from 6:00 a.m. to 10 p.m. Her current daycare operates 7 days a week from 6:00 a.m. to 6:00 p.m. The surrounding properties are zoned R-4 single-family residential except for the property to the south which is zoned R-3.

She stated there were 3 sets of standards that regulate group daycare homes. They must be issued a special use permit if all conditions are met and she said all but 1 of the conditions were met: the home is located closer than 1,500 feet to another group daycare home. She said the Commission could deny the request based on concentration of facilities. All conditions were met in the second standard, but if approved, the daycare must be registered with the Office of Community Standards and shall be brought into compliance with state, building and fire code. The conditions for the third standard were met but she called attention to item D that addressed essential public services and facilities. The property is served by essential public services and she recommended if approved all loading, stopping and pick up should occur on Lake Crest Drive only for safety. She said after holding a public hearing the Commission could approve, deny or table the request. If they approved she recommended the following conditions: the applicant agrees to enter into a special conditional use agreement outlining the conditions as noted, the applicant shall supply the Office of Community Standards with all required documents, the applicant shall permit the home to be inspected by the Township Building Official and/or Fire Marshal; and all stopping,

loading and pick up shall occur only on Lake Crest Drive. If the Commission denied the request she suggested they list the reason why and suggested the reason would be because it is located closer than 1,500 feet to another daycare.

Angela King, Township Attorney, said in the application the suggested operating hours were not 6:00 am to 10:00 pm, they were 4:00 am to 12:00 am. She said the daycare cannot be open more than 16 hours per day under state law. She suggested this would be an additional grounds for denial.

Abeir Nimer, 8275 South Huron River Drive, applicant, said she changed the hours when Ms. Wilson contacted her but the paperwork had already been submitted. She said she usually operates from 6:00 am to 6:00 pm but wanted to keep the closing time as 10:00 pm in case anyone was running late.

Commissioner Iacoangeli asked her opinions on the proposed approval conditions.

Ms. Nimer said all pick up and drop offs occur on Lake Crest Drive only.

Commissioner Peterson asked how long she has had a daycare.

Ms. Nimer said over 25 years.

Commissioner Peterson said her issue was the closeness of the other daycare and said she believed the distance required was state law, which was confirmed. She asked if she had staff and fencing. She asked if she provided daycare for nurses or shiftwork.

Ms. Nimer replied she had 2 employees, fencing and no parents who are nurses or were required to do shiftwork. She said all kids were picked up around 6:00 p.m.

Commissioner Eldridge asked why she requested 4:00 a.m. to midnight.

Ms. Nimer said there were parents who asked about evening care and in the beginning she watched kids until 8:00 p.m. and she did not want to violate any rules. She said she did not know she needed to decrease the hours.

The public hearing opened at 6:42 pm

No persons wished to speak.

The public hearing closed at 6:42 pm

Commissioner Sinkule said that he does not recall a time when the Commission has approved another daycare within 1,500 feet of an established one. He said he was unaware of any hardship.

Attorney King said she was not aware.

Megan Masson-Minock, Carlisle-Wortman Associates, said the lot is a corner lot and the direction is point to point. She said the existing daycare on Michael Street is in a different neighborhood on a cul-de-sac. She said she is unaware of approval or denial in the past based on distance.

A motion was made by Commissioner Sinkule, supported by Commissioner Eldridge to deny the special conditional use permit request of Ms. Abeir Nimer for the purpose of allowing a group daycare home providing care for up to twelve (12) children, for a site zoned R-4, one-family residential, located at 8275 South Huron River Drive, Parcel K-11-22-255-113 for the following reason:

> **Subject property is within 1,500 feet from another group daycare home or similar facility and contributes to an excessive concentration of the state licensed residential facilities.**

Commissioner Peterson asked how long the daycare on Michael Drive had been in operation. She asked if they denied the request can the applicant apply again or could it be tabled and if so, for how long.

Ms. Wilson said she did not know how long it has been operating and the request could be tabled. She said if the daycare chose to renew their license it could be years that it would have to be tabled for.

The motion carried as follows:

Iacoangeli: Yes Peterson: Yes Sinkule: Yes Eldridge: Yes

B. **PD STAGE II AMENDMENT – BANK SUPPLIES INC. – 770 JAMES L. HART PARKWAY –** TO CONSIDER RECOMMENDING TO THE TOWNSHIP BOARD OF TRUSTEES THE AMENDMENT TO THE PD STAGE II APPROVAL ALONG WITH THE ASSOCIATED DEVELOPMENT AGREEMENT OF THE FORMER BURNING BUSH CHURCH OF GOD LOCATED AT 770 JAMES L. HART PARKWAY, PARCEL K-11-17-361-005 IN ORDER TO REMOVE AND/OR AMEND A RECORDED LAND USE RESTRICTION AND TO APPROVE A CHANGE OF USE IN ORDER TO ALLOW THE ESTABLISHMENT OF BANK SUPPLIES, INC., AN OFFICE AND WAREHOUSING FACILITY FOR A SITE ZONED PD-4, PLANNED DEVELOPMENT, LOCATED AT 770 JAMES L. HART PARKWAY, PARCEL K-11-17-361-005.

Ms. Masson-Minock referenced a letter dated October 21, 2019 and said the space used to be a church and a car dealership. When the dealership was built it was Planned Development and when the church took over the space in 2011 they asked for an amendment to the Planned Development and changed one phrase to turn it from a dealership into a place of worship. She stated Bank Supplies does not propose any changes except to upgrade landscaping to what was required by the original site plan. They currently have 30 employees and expect to grow in the future.

She noted that two parcels were used by Burning Bush church, 770 and 660 James L. Hart Parkway but only 770 James L. Hart Parkway is part of the original Planned Development. She said the comprehensive plan designates the parcel as TC, Town Center, and is currently zoned Planned Development with an underlying B-3 zoning. If approved the proposed use would be office and warehousing facility customary accessory buildings and uses. She said surrounding parcels are used as industrial, B-3 or planned for Town Center. She said they are following the same process for the amendment as before. She pointed out in Section 1900 of the Township Zoning Ordinance there is a procedure to amend a previously approved Planned Development and the approval process must be repeated when a change of use is proposed.

She said they recommend approval with the following conditions: the applicant shall submit a development agreement acceptable to the Township Board of Trustees and the Township Attorney, the use of the property shall be limited to office and warehouse distribution uses and the applicant shall agree to replace all necessary landscaping per the originally approved site plan.

Commissioner Eldridge said there is a billboard along I-94 that has an advertisement for the church and asked if Bank Supplies would utilize it.

Ms. Masson-Minock said the billboard is on the other parcel that is zoned B-3 and acts as a sign for the use and it would continue to be used only for the use.

Commissioner Peterson asked if the company purchased the building.

Ms. Masson-Minock said they are in the process of purchasing.

Michael Radzik, OCS Director, said the company is currently in Van Buren Township and they need to expand their facilities. He visited the site with company

representatives and has been in detailed discussions and he said he was excited at the prospect of the relocation.

Attorney King said if the request was granted she recommends adding a condition that proof of the property transfer be provided.

Ross Gordon, 937 Prairie Lane, Milan Michigan, applicant, said the property is under contract and they are waiting for proper approvals before it is finalized.

The public hearing opened at 6:57 pm

No persons wished to speak

The public hearing closed at 6:57 pm

A motion was made by Commissioner Eldridge, supported by Commissioner Peterson to recommend approval to the Board of Trustees the request of the Bank Supplies to amend the PD Stage II Final Site Plan dated November 14, 2011 and to amend the executed Development Agreement dated December 7, 2011 to permit the establishment of an office and warehouse distribution use to be located at 770 James L. Hart Parkway, Parcel K-11-17-361-005 with the following conditions:

> **That the applicant submit a Development Agreement acceptable to the Township Board of Trustees and the Township Attorney.**
>
> **The use of the property shall be limited to office and warehouse distribution use.**
>
> **The applicant shall agree to replace all necessary landscaping per the originally approved site plan.**
>
> **Proof of the property transfer from Burning Bush to Bank Supplies is supplied to the Township legal department.**

The motion carried as follows:

Iacoangeli: Yes Peterson: Yes Sinkule: Yes Eldridge: Yes

C. **PRELIMINARY SITE PLAN – CRYSTAL PONDS CONDOMINIUM – 6888 SWEET WATER DRIVE –** TO CONSIDER RECOMMENDING TO THE TOWNSHIP BOARD OF TRUSTEES THE PRELIMINARY SITE PLAN APPLICATION OF LOMBARDO HOMES IN ORDER TO CONSTRUCT 68 DWELLING UNITS FOR A SITE CONDOMINIUM ZONED R-3, ONE-FAMILY RESIDENTIAL, LOCATED AT 6888 SWEET WATER DRIVE, PARCEL K-11-25-310-010.

Mr. Radzik gave a brief summary of the property and events over the past 20 years.

Ms. Masson-Minock said the site is zoned R-3 and so are the surrounding parcels except the mobile home park to the east. The approved open space would remain untouched and 2 of the remaining lots are out of the applicant's control because they are privately owned. There would be no changes to site access and sidewalks and a walking path would be installed. The number of units would be the same but locations of single-family houses, duplexes and triplexes would be different. She said the applicant is deficient in street, yard and detention pond landscaping and the Commissioners can waive or modify the standards under specific situations. The applicant said additional landscaping would pose a financial hardship to keep the homes affordable. Also, materials were not indicated on the floor plans. She said they recommended approval with the condition the applicant provides elevations and material details. If the landscape waiver was not approved, she requested the required landscaping be a condition of any approval.

Mr. Radzik said the developer wanted the starting price to be $190,000 to $195,000 for those who may not be able to afford other single-family housing in the Township and language to that effect is in the proposed Development Agreement. He said because of this they are trying to be flexible in the standards to keep pricing low.

Elliot Smith, OHM, referenced his letter dated October 30, 2019 and said they recommend approval contingent on requesting the applicant verify that sidewalks and ramps are ADA compliant.

Commissioner Iacoangeli asked if as-builts on the utilities were ever submitted to the Township by the prior developer.

Mr. Smith said no.

Commissioner Iacoangeli asked if the final road layer could still be installed over the current road due to its age.

Mr. Smith said they inspected in August 2019 and pointed out areas that needed to be replaced and the applicant agreed to do so. The top layer will be installed before construction begins and if any is damaged the applicant will repair or replace.

Attorney King noted in the packet that Scott Westover, Ypsilanti Community Utilities Authority (YCUA), had not approved the site plan.

Mr. Smith said the existing underground infrastructure was approved in the 1990s. He said they felt comfortable that any issues with YCUA could be addressed in detailed engineering.

Commissioner Iacoangeli asked if Lombardo would be correcting any issues and then turning the system over to YCUA.

Mr. Smith said yes.

Mr. Radzik said YCUA has been maintaining the system.

Greg Windingland, Lombardo Homes, 13001 23 Mile Road, Shelby Township Michigan, applicant, passed out a handout and gave a presentation. He said any needed infrastructure work will be done on a building by building basis with approval from Mr. Westover. Road paving would be completed by June 2020 and they have applied for foundation only permits. Seventeen units have been sold and an additional 17 will close in December 2019. He said the co-owners will need to eventually vote on an amendment to the Master Deed because it has been more than 6 years since it was recorded. Lombardo will also pay for 3 years of a management company for the residents. He said they were asking for the landscape waiver due to unanticipated additional costs but would make all ramps ADA compliant.

Commissioner Eldridge asked how sanitary service would be provided to lots 89 and 90 that Lombardo did not own.

Mr. Windingland said they did own those lots and there are existing leads there.

Commissioner Sinkule asked how they were going to include pricing language and what would happen if more unanticipated costs arose, would there be a guarantee on price.

Mr. Windingland said they agreed to language that would set a starting price point but the market would drive the price. He said they do not want to compete with themselves and are cognizant of the price. There are not going to be a lot of upgrades or options available for owners to purchase which will keep the price lower.

Mr. Radzik said Lombardo agreed to install security cameras and street lights. He said there will be rent restrictions in the Development Agreements as well.

Commissioner Eldridge asked if the homeowners would like to speak.

Jeanie Powers, 6852 Swan Lake Court, thanked the Township and Lombardo for working with the residents. She asked that they remove public access to their common grounds in the Master Deed and Development Agreement. She said they have had problems with non-residents drinking, shooting guns and growing marijuana by the pond.

Attorney King said she believed if it was a provision in the Master Deed the Planning Commission did not have authority to amend it.

Ms. Powers said Lombardo had told the residents they had to make the common grounds public in all their developments.

Attorney King said she would need to raise the issue when the Master Deed is changed.

Commissioner Iacoangeli said her concern was duly noted and the Commission will ask staff to make sure when the Master Deed's amended language is clear that the common areas are for homeowners and not the general public.

Charles Riptowski, 10347 Swan Lake Circle, president of homeowners' association, said he has spoken with most of the residents and they are pleased with what Lombardo is doing.

A motion was made by Commissioner Eldridge, supported by Commissioner Sinkule to recommend approval to the Township Board of Trustees the preliminary site plan application of Lombardo Homes in order to construct 68 dwellings for a site condominium zoned R-3, one-family residential, located at 6888 Sweet Water Drive, Parcel K-11-25-310-010 with the following conditions:

> **The applicant shall enter into a Development Agreement approved by the Township Board of Trustees.**
>
> **The applicant shall provide elevations showing all 4 sides of the proposed home including material details.**
>
> **The applicant meets the conditions to waive the landscaping requirements set forth in Township Zoning Ordinance Section 2108.4, Landscape Requirements and Waivers.**
>
> **The Board would support consideration to the resident's statements regarding making the property private when the Master Deed is amended.**

The motion carried as follows:

Iacoangeli: Yes Peterson: Yes Sinkule: Yes Eldridge: Yes

D. **PRELIMINARY SITE PLAN – TAPAN PATEL – 800 SOUTH HEWITT ROAD –** TO CONSIDER THE PRELIMINARY SITE PLAN APPLICATION OF TAPAN PATEL IN ORDER TO CONSTRUCT A 64-ROOM COMFORT INN AND SUITES HOTEL AT 800 SOUTH HEWITT ROAD FOR A SITE ZONED IRO, INDUSTRIAL RESEARCH OFFICE, PARCEL K-11-18-100-022.

Ms. Wilson said the site is currently vacant with one point of access. The site would have 75 parking spaces and will not include a restaurant. Plans have been reviewed by Township staff and consultants. Ypsilanti Township Fire Department, YCUA, Washtenaw County Road Commission and Washtenaw County Water Resources Commission all offered preliminary approval. She noted the Zoning Board of Appeals approved a height variance on November 6, 2019 contingent on preliminary site plan review.

Ms. Masson-Minock said the site is surround by B-3 zoning and Master Planned General Commercial except to the east which is Industrial. The use would comply with the Master Plan, there are no protected trees or wetlands on the property and it complies with bulk density and setback requirements. She stated the applicant needed to confirm if they needed a permit from Washtenaw County Road Commission since the entrance is on a private drive. The applicant would install a sidewalk on Michigan Avenue and she said the Township may want to work with the Road Commission to install a sidewalk in front of Wendy's to complete the connection. She said parking and loading is in compliance and exterior lighting meets ordinance requirements. Landscaping and building elevations also meet requirements. She pointed out this was the sixth review Carlisle-Wortman has done for the applicant and they recommend preliminary site plan approval.

Commissioner Eldridge asked about cameras.

Ms. Masson-Minock said she did know if they were included.

Mr. Smith said existing issues include underground infrastructure, proposed utility layout and site circulation. In their October 4, 2019 letter, OHM recommend approval.

Commissioner Iacoangeli asked if the site already had infrastructure ready.

Mr. Smith said for storm water management yes.

Tapan Patel, 3241 Carlton Road, Hillsdale Michigan, applicant, said they would have a full security system that they are trying to tie into the Township system.

Brian Biskner, Howell Engineering, introduced himself.

A motion was made by commissioner Eldridge, supported by Commissioner Peterson to approve the preliminary site plan for construction of a 64-room Comfort Inn and Suites Hotel at 800 South Hewitt Road for a site zoned IRO, Industrial Research Office, Parcel K-11-18-100-022 with the following condition:

> **The applicant shall obtain all necessary building permits from the Office of Community Standards.**

The motion carried as follows:

Iacoangeli: Yes Peterson: Yes Sinkule: Yes Eldridge: Yes

6. OLD BUSINESS

None

7. NEW BUSINESS

None

8. OPEN DISCUSSION FOR ISSUES NOT ON THE AGENDA

A. CORRESPONDENCE RECEIVED

None

B. PLANNING COMMISSION MEMBERS

None

C. MEMBERS OF THE AUDIENCE

None

9. TOWNSHIP BOARD REPRESENTATIVE REPORT

None

10. ZONING BOARD OF APPEALS REPRESENTATIVE REPORT

Commissioner Iacoangeli said the height variance was approved for Comfort Inn.

11. TOWNSHIP ATTORNEY REPORT

None

12. PLANNING DEPARTMENT REPORT

None

13. OTHER BUSINESS

None

A motion was made by a Commissioner Peterson, supported by Commissioner Sinkule to adjourn the meeting. The motion carried unanimously.

The meeting was adjourned at approximately 8:00 pm

Respectfully submitted,
Laura Gough
OCS Clerk

Reviewed and recommended for approval,

Laurence J. Krieg
Secretary, Planning Commission

EXHIBIT C: MCL 125.3206

MICHIGAN ZONING ENABLING ACT (EXCERPT)
Act 110 of 2006

125.3206 Residential use of property; adult foster care facilities; family or group child care homes.

Sec. 206. (1) Except as provided in subsection (2), each of the following is a residential use of property for the purposes of zoning and a permitted use in all residential zones and is not subject to a special use or conditional use permit or procedure different from those required for other dwellings of similar density in the same zone:

(*i*) A state licensed residential facility.

(*ii*) A facility in use as described in section 3(4)(k) of the adult foster care facility licensing act, 1979 PA 218, MCL 400.703.

(2) Subsection (1) does not apply to adult foster care facilities licensed by a state agency for care and treatment of persons released from or assigned to adult correctional institutions.

(3) For a county or township, a family child care home is a residential use of property for the purposes of zoning and a permitted use in all residential zones and is not subject to a special use or conditional use permit or procedure different from those required for other dwellings of similar density in the same zone.

(4) For a county or township, a group child care home shall be issued a special use permit, conditional use permit, or other similar permit if the group child care home meets all of the following standards:

(a) Is located not closer than 1,500 feet to any of the following:

(*i*) Another licensed group child care home.

(*ii*) An adult foster care small group home or large group home licensed under the adult foster care facility licensing act, 1979 PA 218, MCL 400.701 to 400.737.

(*iii*) A facility offering substance use disorder services to 7 or more people that is licensed under part 62 of the public health code, 1978 PA 368, MCL 333.6230 to 333.6251.

(*iv*) A community correction center, resident home, halfway house, or other similar facility that houses an inmate population under the jurisdiction of the department of corrections.

(b) Has appropriate fencing for the safety of the children in the group child care home as determined by the local unit of government.

(c) Maintains the property consistent with the visible characteristics of the neighborhood.

(d) Does not exceed 16 hours of operation during a 24-hour period. The local unit of government may limit but not prohibit the operation of a group child care home between the hours of 10 p.m. and 6 a.m.

(e) Meets regulations, if any, governing signs used by a group child care home to identify itself.

(f) Meets regulations, if any, requiring a group child care home operator to provide off-street parking accommodations for his or her employees.

(5) For a city or village, a group child care home may be issued a special use permit, conditional use permit, or other similar permit.

(6) A licensed or registered family or group child care home that operated before March 30, 1989 is not required to comply with this section.

(7) This section does not prohibit a local unit of government from inspecting a family or group child care home for the home's compliance with and enforcing the local unit of government's zoning ordinance. For a county or township, an ordinance shall not be more restrictive for a family or group child care home than 1973 PA 116, MCL 722.111 to 722.128.

(8) The establishment of any of the facilities listed under subsection (4)(a) after issuance of a special use permit, conditional use permit, or other similar permit pertaining to the group child care home does not affect renewal of that permit.

(9) This section does not prohibit a local unit of government from issuing a special use permit, conditional use permit, or other similar permit to a licensed group child care home that does not meet the standards listed under subsection (4).

(10) The distances required under subsection (4)(a) shall be measured along a road, street, or place maintained by this state or a local unit of government and generally open to the public as a matter of right for the purpose of vehicular traffic, not including an alley.

History: 2006, Act 110, Eff. July 1, 2006;—Am. 2007, Act 219, Imd. Eff. Dec. 28, 2007;—Am. 2018, Act 513, Eff. Mar. 28, 2019.

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CHARTER TOWNSHIP OF YPSILANTI

OFFICE OF COMMUNITY STANDARDS

Building Safety • Planning & Zoning • Ordinance Enforcement

Planning Commission
Staff Report
New Building Façade – Roundtree Village Shopping Center
2243 Ellsworth Rd, Ypsilanti, MI 48197
Parcel K-11-18-100-003

February 8, 2022

CASE:
The applicant is requesting consideration for an amendment to the final site plan for a façade remodel of the Roundtree Village Shopping Center located at 2243 Ellsworth Rd. The one-story shopping center building is 71,205 square feet and the property is 7.594 acres.

APPLICANT:
Mohammed Hasan (734) 585-4189
3032 Potomac Drive, Ann Arbor, MI 48108

SUMMARY OF REQUEST:
The property owner of 2243 Ellsworth Rd, better known as Roundtree Village Shopping Center, is seeking approval to amend their approved site plan to replace the current EFIS façade with Alucobond (an aluminum composite material). The new façade is proposed to extend the entire length of the Roundtree Village Shopping Center from the former Big Lots to McShanes. There are no other proposed site improvements. Any future improvements such as parking lot improvements, landscaping, and lighting would need to be reviewed under a future site plan review.

CROSS REFERENCES:
Township Zoning Ordinance – Article XXI. – General Provisions / Sec. 2125. – Exterior building wall design.

Aerial Photograph(s) – 2243 Ellsworth

***Not to scale*

SUBJECT LOCATION:

The Roundtree Village Shopping Center is located at the corner of E. Ellsworth and S. Hewitt Road just north of W. Michigan Ave. & I-94.

SUBJECT SITE ZONING:

The parcel is currently zoned B-3, General Business. The shopping center is home to numerous retail businesses.

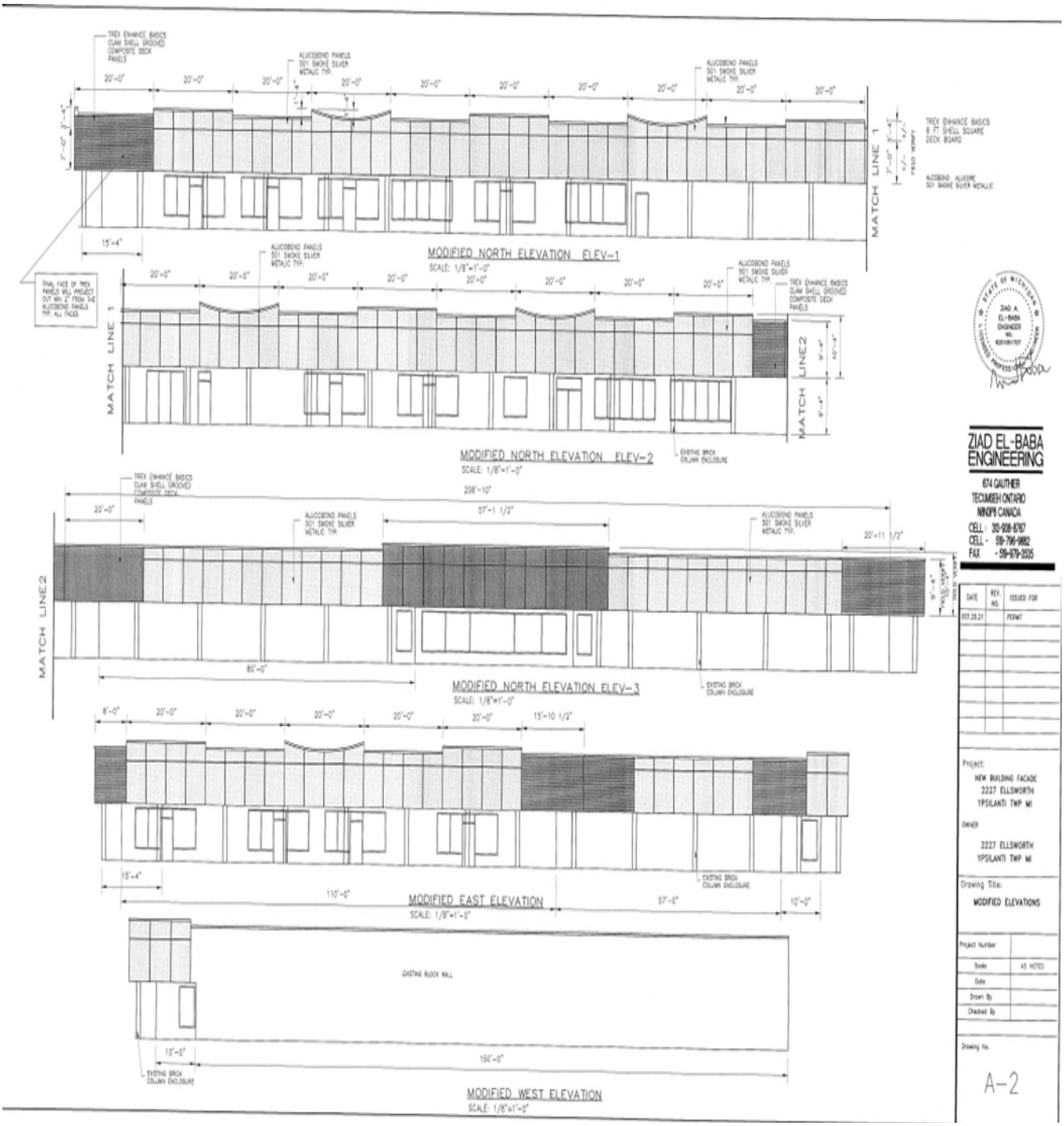
ADJACENT USES, ZONING AND COMPREHENSIVE PLAN:

Direction	Use	Zoning	Future Land Use Designation
North	Automotive Services / Retail	B-3	GB – General Business
South	Bank of America	B-3	RC – Regional Corridor
East	Residential	B-3	GB – General Business
West	Retail	B-3	GB – General Business

EXISTING FAÇADE:

PROPOSED FAÇADE:

The new façade includes the removal of existing the EFIS and replacing it with Alucobond (an aluminum composite material) as well as proposed elevation improvement designs. The color of the Alucobond has been selected by the applicant. The applicant has brought samples to show to the Planning Commission.



Analysis: Article XXI. – General Provisions / Sec. 2125. – Exterior building wall design.

The purpose of this section is to provide a set of exterior building wall material standards, the intent of which is to enhance the visual environment of the township. Furthermore, the review of exterior building wall design and the consistent administration of standards can help to maintain the township's sense of place by encouraging consistent quality and character when structures are built or redeveloped.

1. This section shall apply to all construction, except single family residential structures, for all exterior building walls and shall consist of those materials and combinations of materials as set forth in this section.
    - Staff Comment: Alucobond is considered a metal building material which is permitted in Commercial Districts. The plans include keeping the existing face brick (another permitted building material).
2. The use of exterior wall materials shall be in compliance with the maximum percentages permitted in the "Schedule Regulating Exterior Building Wall Materials."
    - Staff Comment: Commercial Districts are permitted to use up to 50% metal for the exterior wall and up to 100% for face brick. Please refer to page 8 for reference.
3. The application of these standards should promote integration and mixture of materials where more than one material is used on a building. If only one material is used, architectural detailing and articulation, massing, texture and form must be introduced into the building's design.
    - Staff Comment: The face of the building will have a mixture of materials (Face Brick & Alucobond)
4. When building walls are 100 feet or greater in length, design variations must be applied to assure that the building is not monotonous in appearance. Such variations include but are not limited to the following:
    - Recess and projections along the building façade. Variations in depth should be a minimum of ten feet.
        - Staff Comment: The Planning Department was provided plans which show design variations which include façade projections (Refer to page 5).
    - Architectural details or features.
        - Staff Comment: (Refer to page 5). As of now, the building is monotonous in appearance with a slight deviation in height in the façade where the Big Lots once was.
    - Enhanced ornamentation around building entryways.
        - N/A
    - Landscaping.

    - N/A
- Streetscape Elements.
    - N/A
- Variations in building height.
    - While the building does not have variation in height, the façade is proposed to have multiple variations in height and design.

5. When a particular building design and the materials or combination of materials proposed to be used in exterior walls are found by the planning commission, after consultation and review by an appropriate design professional, to be in keeping with the intent and purpose of this section, but which may differ from the strict application of the schedule regulating material use of this section (e.g., use of new materials not covered in the Building Wall Materials Schedule), the planning commission may waive the requirements of this section pertaining to materials. When a waiver is requested under this subsection, the proposed building design and materials schedule shall be accompanied by a written design statement which shall describe how the selected wall materials and material combinations will be consistent with and enhance the building design.
    - N/A
6. Where a new wall material is proposed for an existing building wall, only that portion of the building being altered shall be subject to the standards of this section. However, in considering the proposed alteration, the planning commission shall view it in context of the architecture of the entire building.
    - N/A
7. Where an addition is proposed to an existing building, the planning commission may allow the use of existing wall materials for the addition provided that the design of the alteration is consistent with the existing building wall design.
    - N/A
8. This section is not intended to regulate the quality, workmanship and requirements for materials relative to strength, durability and endurance, maintenance, performance, load capacity, or fire resistance characteristics.
    - N/A – Building Department has reviewed the plans for strength, durability, load capacity, and fire resistance. This review was preliminary. Additional trade permits will be reviewed if this plan is approved by the PC.

Schedule Regulating Exterior Building Wall Materials:
Commercial Districts *(2)*

Building Material	Maximum Percent of Wall to be Covered by Certain Building			
	100	75	50	25
Masonry / Stone				
Face Brick or Ceramic	X			
Split Face or Ribbed Block				X
Stone	X			
Precast Concrete			X	
Concrete Formed in Place			X	
Metal *(3)*			X	
Glass				
Tinted and Reflective		X		
Glass Block			X	
Wood (Fire Resistant Only)				
Wood Siding (Beveled, Lap, TEG, Batten)		X		
Finishes *(4)*			X	

1. Vision glass and doors not included.

2. All walls exposed to public view from adjacent residential, office, or business districts, or from a street, shall be constructed of not less than 75 percent masonry or stone, not to include unfinished concrete block. Metals, if utilized, shall be ribbed panels or other decorative finish in suitable colors.

3. Flat sheets and seamed or ribbed panels include aluminum, porcelain, stainless steel, etc.

4. Includes drivit, cement, plaster, stucco, or similar materials. Such materials shall not be used where contact with vehicles may occur, such as parking areas, traffic ways, or loading areas adjacent to building walls, unless such walls are adequately protected to prevent wall damage.

5. Not permitted.

(Ord. No. 98-184, 2-17-98; Ord. No. 2001-288, 12-18-01)

Review:

Charter Township of Ypsilanti Building Department: Building Department reviewing agent Bill Balmes offered comments in an email dated January 13, 2022. The proposed façade / plans are code compliant.

Recommendations:

We recommend administrative site plan approval with the following conditions:

1. Applicant shall obtain all necessary building and other applicable permits.

2. Applicant shall submit information on the fire resistance of façade material and the color. The building / fire department has already confirmed that the materials meet code, but we need that information from the architect for documentation.
3. Applicant / Lease holders shall submit separate permits if replacing business signs (Building / Electrical Permits).
4. Applicant shall keep existing face brick pillars and existing face brick walls as is to promote a healthy mixture of building materials.

Suggested Motions:
The following suggested motions are provided to assist the Planning Commission in make a complete and appropriate motion for this application. The PC may utilize, add or reject any portion of the suggested motion or any conditions suggest herein, as deemed appropriate.

Table:
"I move to table the request for 2243 Ellsworth Rd to amend the approved site plan to replace their existing EFIS façade with a new Alucobond material, to consider comments presented during this meeting."

Approve:
"I move to approve the request to amend the approved site plan for 2243 Ellsworth Rd. to replace the existing EFIS façade with an Alucobond material based on the provided plans following the regulations set in Article XXI. – General Provisions / Sec. 2125. – Exterior building wall design in the Township Ordinance."

Denial:
"I move to deny the request to amend the approved site plan for 2243 Ellsworth Rd. to replace the existing façade with an Alucobond material, due to the following reason(s): *Please provide reasons for denial in the motion.*

Respectfully Submitted,

Fletcher Reyher

Fletcher Reyher | Staff Planner

CHARTER TOWNSHIP OF YPSILANTI

OFFICE OF COMMUNITY STANDARDS

Building Safety • Planning & Zoning • Ordinance Enforcement

Staff Report
Project Yoga Last Mile Distribution Center
10635 Textile Road
Preliminary Site Plan Review

February 1, 2022

CASE LOCATION AND SUMMARY

The Planning Department is in receipt of a preliminary site plan application from Seefried Properties. The applicant is seeking approval to construct a 183,000 square foot Last Mile Distribution Center. This property is zoned I-2 General Industrial. Freight Terminals and Warehouses are permitted uses in the I-2 Zoning District.

APPLICANT

Doug Houser c/o Seefried Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

CROSS REFERENCES

Zoning Ordinance citations:

- Article XI, Section 1500, I-2 General Industrial District
- Article XXI, Section 2115, Site Plan Review

ANALYSIS

The plan has been reviewed by Township staff and consultants in accordance with our procedures. Below is a brief summation of the review letters that have been provided in the Planning Commission packet.

Planning Consultants (Carlisle/Wortman Associates): CWA reviewed the preliminary site plan and in their letter dated January 7, 2022 and recommended that the Planning Commission consider the following items:

1. Planning Commission is to consider the need for the additional parking being requested by the applicant as outlined in the review letter.
2. Planning Commission to consider architectural details for the building.
3. Final Lighting Plan to be reviewed by the Township Engineer.
4. Any additional conditions considered by the Planning Commission.

Engineering Consultants (Stantec): The Township Engineer recommended approval for this stage of the process in their January 24th review letter. Stantec has the following items for the Planning Commission to consider:

1. Non-Motorized Pathway to fill in the gaps in the existing pathway from Bridge Road to Textile in lieu of the required pathway along Rawsonville Road. This would create a more usable pathway than "two disconnected segments". The pathway on Textile should be 10' feet instead of 5' feet shown.

Ypsilanti Community Utilities Authority: YCUA reviewing engineer Scott Westover recommends preliminary site plan approval in his letter dated January 24th. YCUA has some remaining engineering comments that deal with water main width and diameter. The comments will need to be addressed at the time of Final Site Plan and Detailed Engineering.

Ypsilanti Township Fire Department: YTFD reviewing agent Dan Kimball recommends approval of the Preliminary Site Plan as the preliminary plans meet the requirement of the International Fire Code for Site Plan and Hydrant Coverage.

Washtenaw County Water Resources Commission: WCWRC provided the current review letter on December 02, 2020. The applicant is currently working to address the additional comments required by the Water Resources Commission.

Washtenaw County Road Commission: The Washtenaw County Road Commission has approved the location of the three (3) commercial driveways along Textile Road for the development. The County has some conditions tied to the approval which include installing a left turn lane between McKean and Rawsonville Road. Right turn lanes for the new development along with upgraded signal equipment at Textile and McKean and Textile and Rawsonville Road per their letter dated January 25, 2022.

Suggested motions: *The following suggested motions and conditions are provided to assist the Planning Commission in making the most appropriate motion for this application. The Commission may utilize, add or reject any conditions suggested herein, as they deem appropriate.*

Preliminary Site Plan Approval

Motion to table:

"I move to table the request for ***Preliminary Site Plan*** *approval for Project Yoga for a 183,000 square foot last mile distribution center in order to have staff provide additional information based on the issues raised during this meeting.*

Motion to approve:

"I move to approve the request for ***Preliminary Site Plan*** *for Project Yoga a 183,000 square foot last mile distribution center to be located at 10635 Textile Road, parcel(s) K-11-24-400-003 and K-11-24-400-002 with the following conditions:*

1. *Applicant shall address remaining review comments from consultants, agencies, and departments.*
2. *Interior and exterior camera systems shall be held for 45 days and be made available to law enforcement on request.*
3. *The development is to include EV Parking Infrastructure for delivery vehicles for the future transition to an electrical vehicle fleet.*
4. *Project Yoga will agree to use eco-friendly landscaping and landscaping products for the development.*
5. *Applicant shall obtain all applicable outside agency permits.*
6. *A Development Agreement will be entered into between Project Yoga and Ypsilanti Township as a part of the Final Site Plan approval.*

Motion to deny:

"I move to deny the request for ***Preliminary Site Plan*** *approval for Project Yoga to be located at 10635 Textile Road, parcel(s) K-11-24-400-003 and K-11-24-400-002, due to the following reasons:*

1. _____
2. _____"

Respectfully submitted,

Jason Iacoangeli, AICP
Planning Director

Planning Director's Report

Project Name:	Project Yoga - Last Mile Distribution Center
Location:	10635 Textile Road
Date:	January 31, 2022

- [x] Full Preliminary Site Plan Review # 2
- [ ] Sketch Preliminary Site Plan Review #
- [ ] Administrative Preliminary Site Plan Review #
- [ ] Detailed Engineering/Final Site Plan Review #
- [ ] Special Use Permit
- [ ] Public Hearing
- [ ] Rezoning
- [ ] Tentative Preliminary Plat
- [ ] Final Preliminary Plat
- [ ] Final Plat Process
- [ ] Planned Development Stage I
- [ ] Planned Development Stage II

Contact / Reviewer	Consultants, Departments, & Agencies	Approved	Approved with Conditions	Denied	N/A	See email/letter attached or comments below
Jason Iacoangeli, Planning Director	Township Planning Department	☐	✔	☐	☐	See Planning Department Comments Below
Carlisle/Wortman Associates	Planning Consultant	☐	✔	☐	☐	See Carlisle Wortman letter dated 01.31.22
OHM / Stantec	Engineering Consultant	☐	✔	☐	☐	See Stantec letter dated 01.24.22
Dan Kimball, Fire Marshal	Township Fire Department	✔	☐	☐	☐	See YTFD letter dated 01.27.22
Dave Bellers, Building Official	Township Building Department	☐	☐	☐	✔	Building plans are currently under review.
Brian McCleery, Deputy Assessor	Township Assessing Department	☐	☐	☐	✔	
Scott Westover, Engineering Manager	Ypsilanti Community Utilities Authority	☐	✔	☐	☐	See YCUA letter dated 01.24.22
Gary Streight, Project Manager	Washtenaw County Road Commission	☐	✔	☐	☐	See WCRC letter dated 01.25.22
Theresa Marsik, Stormwater Engineer	Washtenaw County Water Resources Commission	☐	☐	☐	☐	See WCWR letter dated 12.02.22
James Drury, Permit Agent	Michigan Department of Transportation	☐	☐	☐	☐	

Planning Director's Recommended Action:

At this time the Planning Department is recommending approval of the Preliminary Site Plan for the Project Yoga Last Mile Distribution Center. This project will be placed on the Tuesday, February 8th Planning Commission Meeting. It should be a condition of the Planning Commission that all of the remaining review comments be addressed prior to Final Site Plan approval and Detailed Engineering being completed. Washtenaw County Water Resources has reviewed the project and has some remaining engineering comments that will be addressed at the time of final engineering approval. The most recent storm water review has been included in this packet. The applicant has resubmitted plans to the County based on this review letter. Planning Department Staff and Consultants will be on hand the night of the meeting to discuss the project further with the Planning Commission.

Carlisle | Wortman
ASSOCIATES, INC.
117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: December 15, 2021
January 31, 2022

Preliminary Site Plan Review
For
Ypsilanti Township, Michigan

Applicant: Seefried Properties – Doug Houser

Project Name: Project Yoga

Plan Date: January 7, 2022

Location: 10635 Textile Road and 6000 Rawsonville Road
(K -11-24-400-003 and K -11-24-400-002)

Zoning: I, General Industrial

Action Requested: Preliminary Site Plan Approval

Required Information: Noted

PROJECT AND SITE DESCRIPTION

The applicant is seeking approval to develop the site at 10635 Textile Road to construct a single-story 183,000 square foot structure with associated parking and loading areas, detention areas, and pedestrian connections. The development is accessed off three (3) points on Textile Road. The development includes impact upon regulated wetlands and the removal of a significant number of trees.

The subject site is zoned I-2, General Industrial, and warehouse and storage is permitted use.

Richard K. Carlisle, *President* Douglas J. Lewan, *Executive Vice President*
R. Donald Wortman, *Principal* John L. Enos, *Principal* David Scurto, *Principal* Benjamin R. Carlisle, *Principal* Sally M. Elmiger, *Principal*
Laura K. Kreps, *Senior Associate* Paul Montagno, *Senior Associate* Megan Masson-Minock, *Senior Associate*

Figure 1 *– Subject Site Location*

Location of Subject Site

4700 Carpenter

Surrounding Property Details

Direction	Zoning	Use
North	RM-2, Multiple Family and R-4, One-Family	Huron River, Vacant, Utilities
South	I-2, General Industrial	Industrial uses

East	Van Buren Township	Vacant
West	RM-4, Multiple Family	Huron River, Vacant, and Park

OPERATIONAL DETAILS

As requested, the applicant has provided an operations narrative to understand potential impacts. Approximately 25 semi-trucks will deliver packages to the facility between 10:00 p.m and 8:00 a.m. These trucks primarily come from the major warehouse facility in Romulus. During the night, the packages are sorted for delivery.

Approximately 36 Amazon associates will work in the delivery station between 12:00 PM and 10:30 PM to support the Flex and DSP drivers as they return to the station. After the check out and release of all delivery vehicles by 9:40 PM, delivery station associates prepare the delivery station for the next day's packages.

The last-mile drivers arrive at the site around 9:20 a.m. Between 9:50 and 11:10 a.m, 358 delivery vans are loaded and depart to deliver packages. The first vans leave around 10:10 a.m. The departure window is staggered to mitigate impact on traffic at a rate of 120 vans every 20 minutes. Typically, the delivery vans return between 7:10 p.m. to 9:10 p.m.

This site will also accommodate Amazon Flex which is similar to "uber for deliveries." Amazon Flex allows approximately 70 non-amazon employees, in their personal vehicles, to come to the facility between 4:30 p.m. and 6:00 p.m to pick up packages that arrived after the delivery vans left and deliver them to their final destination. Flex vehicles will load and depart every 15 minutes. Finally, the site will allow for customers to directly pickup orders from the site.

Employees

i. 1st – 115 Associates (2:00 AM – 12:30 PM)
ii. 2nd – 34 Associates (6:00 AM – 2:30 PM)
iii. 3rd – 34 Associates (1:30 PM – 10:00 PM)
iv. PFSD – 30 Associates (2:00 PM – 6:00 PM)
v. RTS Shift – 6 Associates (12:00 PM – 10:30 PM)
vi. Drivers – 358 Drivers (9:20 AM – 8:50 AM)

Line-Hauls (semi-truck): 25

Number of Vans: 358

Please note that these figures are all subject to change based on operational load of the facility.

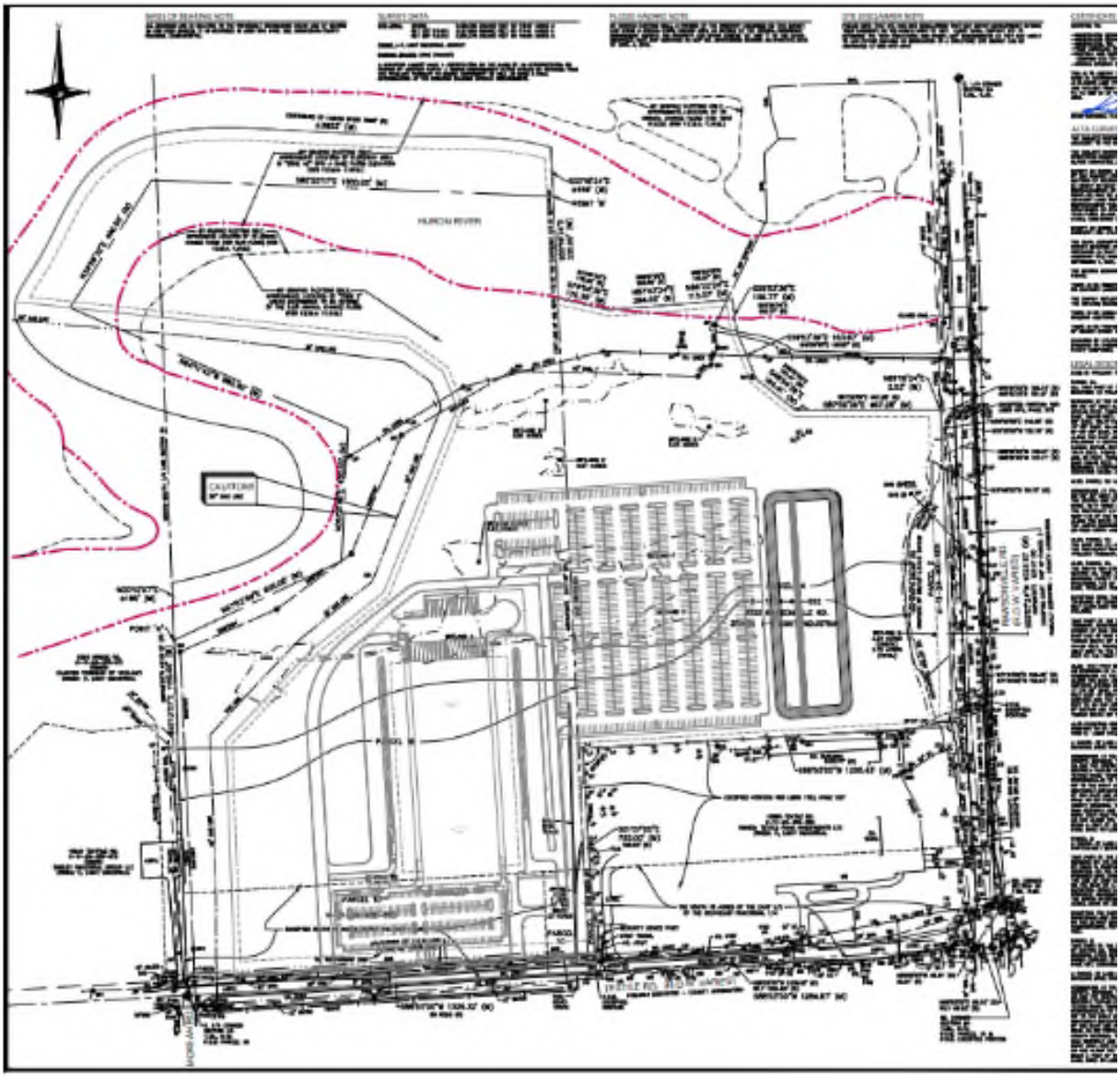
Items to be Addressed: *Address noted site plan issues below*

NATURAL FEATURES

Topography: The site is generally flat with steeper slopes around the Huron River. The development of this site will require grading and leveling.

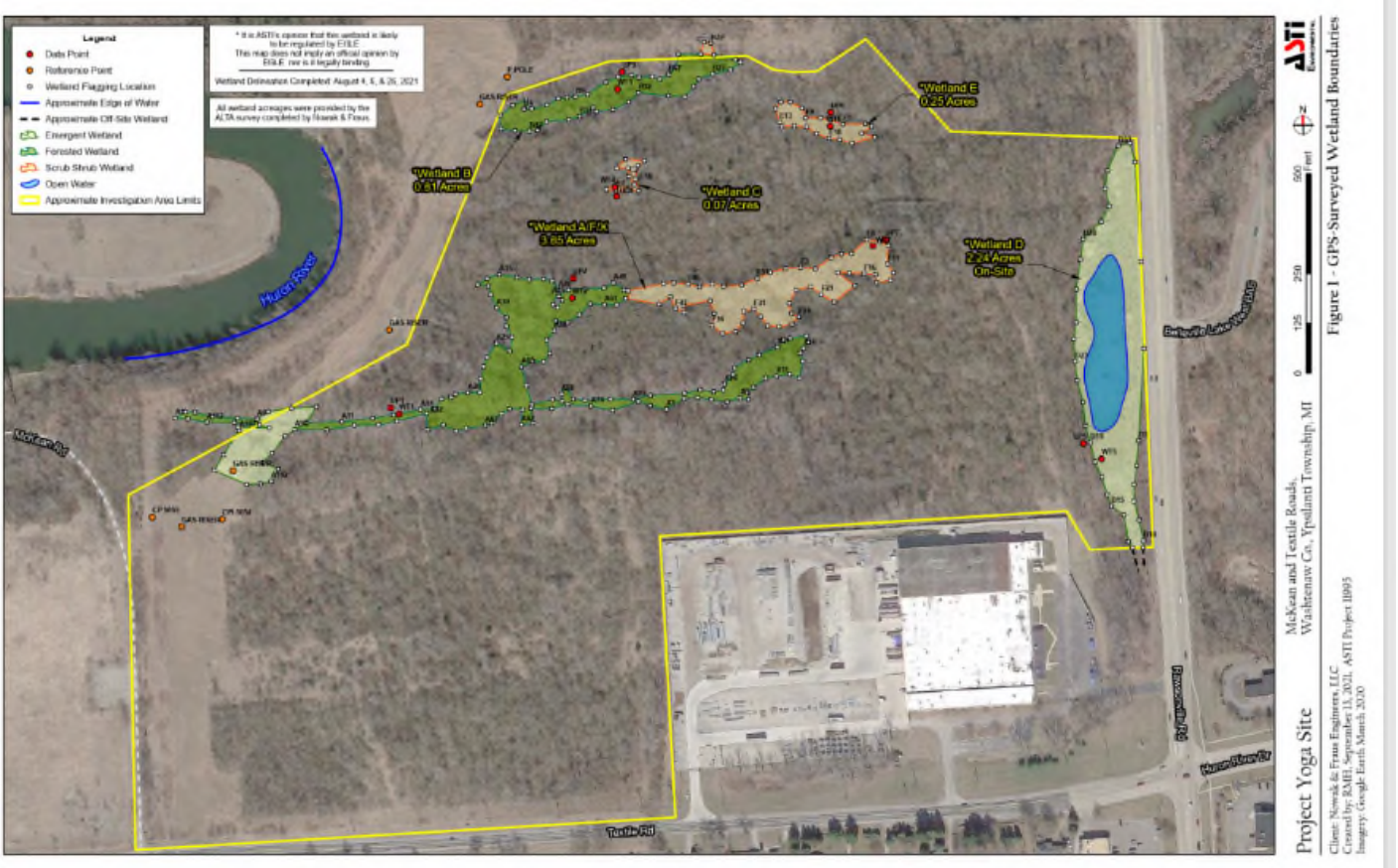
Floodplain: The site in located adjacent to the Huron River and floodplain. The applicant's engineer provided a floodplain report and concludes:

Based on the attached ALTA/NSPS Land Title Survey – Overall ALTA with the Site Plan overlay, the proposed site layout is not within a Special Flood Hazard Area has defined by the Federal Emergency Management Agency.



The proposed layout is within Zone X, areas determined to be outside of the 0.2% annual chance of flood.

Wetlands: The site includes five (5) EGLE regulated wetlands, which are regulated because they are located within 500-feet of the Huron River. The total amount of wetlands is 7.22 acres. It appears that the applicant is impacting 3.29 acres and preserving 3.93 acres of wetlands. The applicant will be required to obtain a EGLE permit.



Woodlands: Sheets L-1.1 through L-1.7. provide the location of trees to be removed.

Tree Preservation Summary	
Total number of onsite trees surveyed	2,586
Total number of dead trees	141
Total number trees to be removed	1,551
Total number of trees to remain	894

Total replacement trees required	1,551
Total replacement trees provided	242

The applicant has requested to pay into the tree fund the equivalent of the remaining 1,309 required replacement tree.

Items to be Addressed: *Township to consider payment into tree fund.*

BUILDING ARRANGEMENT

The 183,000 square foot structure is proposed for the southern portion of the site adjacent to Textile Road. The Associate's parking area is provided south of the building between Textile Road and the building. Semi-truck loading area is provided along the northside of the building. Van staging/loading are located on the east and west elevation. Van parking areas are all located northeast of the structure.

A large detention basin is located east of the van parking lot. The structure, and parking area impact wetlands but avoid any floodplain impacts.

Items to be Addressed: *None.*

AREA, WIDTH, HEIGHT, SETBACKS

Section 2001 outlines the dimensional requirements of the I-2, General Industrial district:

	Required / Allowed	Provided	Complies with Ordinance
Front (Textile)	50-feet	308.1 feet	Complies
Front (Rawsonville)	50-feet	938.8 feet	Complies
Rear (north)	50-feet	728.2 feet	Complies
Side (west)	40-feet	226.9 feet	Complies
Maximum Floor Area Ratio	N/A	N/A	N/A
Maximum Lot Coverage (gross)	N/A	N/A	N/A
Maximum Impervious Surface	N/A	N/A	N/A
Building Height (Feet)	50-feet	44-feet	Complies

Items to be Addressed: *None.*

PARKING, LOADING

Parking requirements are set forth in Section 2104 of the Zoning Ordinance:

Parking Requirements	Number of Spaces Required	Number of Spaces Provided	Compliance
Office: 1 space per 250 of gross floor area	16,900 / 250 = 68 spaces + 149 employees + 5 = 154 = 222 spaces	277 spaces	Does not comply without Planning Commission approval.
Warehouses and wholesale establishments and related accessory offices. Five plus one for every one employee in the largest working shift, or five plus one for every 1,700 square feet of usable floor space, whichever is the greater.			
Barrier-Free Spaces	7 spaces	9 spaces	Compliant
Loading spaces	5 spaces	17 spaces	Compliant
Bicycle parking	2 spaces	0 spaces	Not in compliance

The Zoning Ordinnace requires 222 spaces. The applicant is providing 277. As set forth in section 2104.3.g, Planning Commission approval is required where parking exceeds 20% of the requrement miumum. Based on 222 spaces, the maximum parking is 266 without Planning Commission approval. The applicant is seeking 11 additional spaces over the maximum. Based on operational data from the applicant, the largest employee shift with shift overlap is 213. The applicant needs to justify the need for 277 spaces for employee parking.

In addition to the required parking, the site provides for the following additional vehicle spaces:

Van Parking:

Vehicle-Type	Number of Spaces
Standard Van Spaces (11’ x 27’)	662 spaces
Van Driver Personal Vehicle Spaces (11’ x 27’)	180 spaces
Van Buffer Stalls (11’ x 27’)	33 spaces
Driver Training Stalls (11 x 27’)	66 spaces
TOTAL	**941 spaces**

The site provides for a total of 1,163 vehicle parking spaces for employee parking and van parking purposes.

We have requested the applicant to consider ways to reduce the overall parking and impervious surface or justify the parking need. Items we asked to consider included include:

- Staggered van driver start/end shift times to decrease the need for "double parking" van spaces and van driver personal vehicles which occurs at the beginning and ending of a shift, reducing the amount of employee parking.
- Why can't employees park in the van lots in order to eliminate or reduce associate lot spaces?
- Could applicant landbank parking?

The applicant has provided a detailed narrative as to why they cannot reduce parking or landbank parking.

Items to be Addressed: *Planning Commission to consider applicants response to request to reduce parking.*

SITE ACCESS, CIRCULATION, and TRAFFIC

Three (3) points of access are provided from Textile Road. The various access points are designed for various functions (employees, vans, semi-trucks). All associate parking (employees) is accessed via the middle access point, semi-truck via the western-most access, and vans via the western and eastern-most access points.

Access off of Textile is under the jurisdiction of the Washtenaw County Road Commission. The applicant is required to obtain road access approval from the Road Commission.

Items to be Addressed: *None*

LANDSCAPING

A full landscape plan has been provided.

	Required:	Provided:	Compliance:
General Site Landscaping: *All areas of a site shall remain in lawn area. A mixture of evergreen and deciduous trees shall be planted at the rate of one (1) tree for each 1,000 square feet or fraction thereof of lawn area, plus One (1) shrub for every 500 square feet or fraction thereof of lawn area.*	689 trees 1,379 shrubs	53% of wooded area of site remains undisturbed	Complies

Street Yard Landscaping: *A minimum of one large deciduous tree shall be planted for each 40 lineal feet of frontage, PLUS one ornamental tree shall be planted for each 100 lineal feet of frontage, PLUS one shrub shall be planted for each ten lineal feet of frontage.*	Textile: 29 deciduous And 12 ornamental And 117 shrubs Rawsonville: 26 deciduous And 10 ornamental And 102 shrubs	Textile: 29 deciduous And 12 ornamental And 134 shrubs Rawsonville: None: Heavily wooded already	Complies
Perimeter Buffer: *1 evergreen per 25 LF; 1 deciduous tree per 50 LF; and 1 shrub per 10 LF.*	32 evergreen And 16 deciduous And 79 shrubs	41 evergreen And 22 deciduous And 104 shrubs	Complies
Detention Pond: *1 tree and 10 shrub every 50 LF.*	37 trees and 373 shrubs	37 trees and 373 shrubs	Complies
Parking Lot Trees: *1 tree every 3,000 square feet.*	346 trees	346 trees	Complies

Trash and Recycling Containers:
One (1) dumpster location is provided near the northwest corner of the building. The trash enclosure is screened with a masonry wall.

Equipment Screening:
At-grade equipment is screened.

Items to be Addressed: *None*

LIGHTING

A lighting plan will be reviewed by the Township Engineer during final site plan review.

Items to be Addressed: *Township Engineer to review lighting plan during final site plan.*

ELEVATIONS AND FLOORPLANS

The applicant has submitted draft elevations. The primary materials are unclear from the elevations. The applicant should clarify the material use. The applicant has been asked to provide a 3-D rendering of the site in context with surrounding area. We've provided examples of other Amazon buildings and other warehousing sites that show greater architectural features. We've asked the applicant to consider adding some additional architectural features to their building. The applicant has noted that they have added additional architectural details.

amazon

Items to be Addressed: *Planning Commission to consider architectural details.*

RECOMMENDATION

Overall we support the project and find that it is consistent with the Township Master Plan and other goals and policies. However, as part of the deliberation the Planning Commission should discuss:

- Township to consider payment into tree fund.
- Planning Commission to consider applicants response to parking desire.
- Planning Commission to consider architectural details.

Based on Planning Commission deliberation, we recommend that the Planning Commission approve the preliminary site plan with the following conditions to be addressed as part of final site plan:

1. Add any conditions based on Planning Commission deliberation
2. Township Engineer to review lighting plan during final site plan.

CARLISLE/WORTMAN ASSOC., INC.
Benjamin R. Carlisle, AICP, LEED AP
Principal

Stantec Consulting Michigan Inc.
3754 Ranchero Drive, Ann Arbor MI, 48108-2771

January 24, 2022
File: 2075140701

Attention: Mr. Jason Iacoangeli, AICP
Planning Director
Charter Township of Ypsilanti
7200 S. Huron River Drive
Ypsilanti, MI 48197

Dear Mr. Iacoangeli,

Reference: Project Yoga Preliminary Site Plan Engineering Review #2

We have reviewed the January 7, 2022, 213-sheet submittal of the above preliminary site plan that was received on January 10, 2022, and comment as follows:

The project consists of a 183,184 sq. ft. building, which will comprise of 16,900 sq. ft. floor area of office space, and 166,284 sq. ft. area of industrial space. The project will also include an extensive parking lot with potential future EV charging stalls, and loading areas for delivery vans as well as other site improvements, such as landscaping and a storm water detention basin. The project will require tree removal but proposes tree mitigation as well as payment in lieu of tree mitigation into the Township Tree Fund.

The plans were reviewed for conformance with the Ypsilanti Township Engineering Standards and **are recommended** for preliminary site plan approval. The following comments shall be addressed with the next site plan submittal to the Township.

A. PRELIMINARY SITE PLAN COMMENTS

SITE ACCESS

1. Non-motorized pathways shall be proposed along the Textile Road and Rawsonville Road property frontages. In lieu of constructing the required pathway along the Rawsonville Road property frontage, the applicant is proposing to fill the gap in non-motorized pathway from the existing pathway at Bridge Road to the Textile Road/Rawsonville Road intersection for the Planning Commission's consideration. Filling this gap may be currently more beneficial than constructing two disconnected segments and would connect the existing pathway at Bridge Road to the sidewalk on the east side of Rawsonville Road.

2. The proposed pathway along Textile Road should be 10 feet wide. It is currently shown to be 5 feet wide.

WATER SUPPLY AND WASTEWATER

1. The existing sanitary sewer easement shall be shown on all applicable plan sheets.

2. The water main easement at Hydrant 2 shall be revised such that the hydrant is centered within the easement.

STORMWATER MANAGEMENT

1. Where possible, the applicant is strongly encouraged to propose low-impact stormwater management designs that limit the amount of runoff generated on site.

B. PRELIMINARY DETAILED ENGINEERING PLAN COMMENTS (PROVIDED FOR APPLICANTS BENEFIT):

1. Sheet 54, SP 4.2 Paving & Grading Plan:
    a. The proposed contours ending at the right-of-way shall meet proposed contours within the right-of-way.
2. Sheet 55, SP 4.3 Paving & Grading Plan:
    a. The maximum slope for concrete pavement is 6.0%. The area at the entrance to the van staging area shall be revised.
    b. The proposed contours ending at the right-of-way shall meet proposed contours within the right-of-way.
3. Sheet 56, SP 4.4 Paving & Grading Plan:
    a. Proposed grading shall meet abutting property line elevations. The 691 ft. contour at the northwest area of the plan view shall be revised.
    b. The contours at the proposed ramps shall be revised so that they are ADA compliant.
4. Sheet 57, SP 4.5 Paving & Grading Plan:
    a. The sidewalk located near the southwest corner of the parking area should be revised so that it is ADA compliant.

C. PERMITS AND ADDITIONAL REVIEWS

The following is a listing of the permits and other outside agency reviews that will likely be required for construction of this project. Copies of all permits and outside agency reviews and/or waiver letters shall be sent to Ypsilanti Township.

1. Written preliminary approval from the Washtenaw County Water Resources Commissioner (WCWRC) must be provided prior to Township preliminary site plan approval.
2. Written preliminary approval from the Washtenaw County Road Commission (WCRC) must be provided prior to Township preliminary approval.
3. The Ypsilanti Community Utilities Authority (YCUA) must review and approve the preliminary plan prior to Township preliminary site plan approval.
4. The Ypsilanti Township Fire Department shall review the plan with regards to fire protection.

Reference: **Project Yoga Preliminary Site Plan Engineering Review #2**

5. The Michigan Department of Environment, Great Lakes, and Energy (EGLE) must review and approve the plans for wetlands impacts and mitigation prior to final Township approval.

6. A Ypsilanti Township Soil Erosion and Sedimentation Control Permit will be required for the site construction.

7. A Ypsilanti Township/YCUA Construction Permit will be required for the utilities and stormwater management construction.

In summary, we recommend preliminary site plan approval provided there are no other significant concerns from the above listed reviewing agencies, particularly related to site layout. Should you have any questions please do not hesitate to contact us.

Regards,

Stantec Consulting Michigan Inc.

Eric Humesky, PE
Municipal Project Manager
Phone: (734) 761-1010
Eric.Humesky@Stantec.com

Maranda Miller, PE
Municipal Engineer
Phone: 734-386-9281
Maranda.Miller@stantec.com

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CHARTER TOWNSHIP OF YPSILANTI

BUILDING DEPARTMENT

7200 S. Huron River Drive, Ypsilanti, MI 48197

Charter Township of Ypsilanti
7200 S. Huron River Drive
Ypsilanti, MI 48197

RE:

Project Name:	Yoga
Project Location:	10635 Textile Rd., Ypsilanti, MI 48198
Plan Date:	
Revised Plan Date:	01/07/2022
NFE Job Number:	M278-01
Applicable Codes:	IFC 2018
Engineer:	Nowak & Fraus Engineers
Engineer Address:	4677 Woodward Ave., Pontiac, MI 48342

Status of Review

Status of review:

Pages SP 3.10 – SP 3.11 were reviewed.

Site Coverage – Hydrants

Comments: Meets IFC 2018.

Site Coverage - Access

Comments: Meets IFC 2018.

Interior

Comments: Looking forward to reviewing the architectural building prints.

Sincerely,

CHARTER TOWNSHIP OF YPSILANTI FIRE DEPARTMENT

BUREAU OF FIRE PREVENTION

222 South Ford Boulevard, Ypsilanti, MI 48198

Dan Kimball
Charter Township of Ypsilanti
CFPS, CFI II, CFPE

Dedicated to Providing Top Quality, Cost Effective, and
Environmentally Safe Water and Wastewater Services to Our Customers

YPSILANTI COMMUNITY UTILITIES AUTHORITY

2777 STATE ROAD
YPSILANTI, MICHIGAN 48198-9112
TELEPHONE: 734-484-4600
WEBSITE: www.ycua.org

January 24, 2022

VIA ELECTRONIC MAIL

Mr. Jason Iacoangeli, Planning Director
Office of Community Standards
CHARTER TOWNSHIP OF YPSILANTI
7200 S. Huron River Drive
Ypsilanti, MI 48197

Re: Preliminary (non-residential) Site Plan Review #2
Detailed Engineering Review #1
Project Yoga
Charter Township of Ypsilanti (Plan Date: 01-07-2022)

Dear Mr. Iacoangeli:

In response to the electronic mail message from your office dated January 10, 2022, we have reviewed the referenced plans with regards to water supply and wastewater system design. The plans are acceptable for the preliminary site plan stage of the review process. However, the following comments need to be addressed by the Applicant and/or the Applicant's design engineer prior to Detailed Engineering plans being deemed acceptable to YCUA.

1. The minimum width for public water main is 15'.
2. The proposed water main profiles appear to show significant lengths of pipe buried at more than 7' to top of pipe. YCUA would prefer the top of pipe at about 6' bury as much as possible with 45 degree bends used to vertically deflect the water main under storm sewers and other crossings where required.
3. The plans show two separate proposed 8" diameter water services near the southwest corner of the proposed building. An 8" diameter combined domestic and irrigation water service is very likely oversized. An itemized building fixture count needs to be provided to ensure the water service and meter are appropriately sized.
4. The proposed building appears to be a slab on grade without any basement area. It is unclear why the proposed sanitary lateral needs to be as deep as presented in the profile view.

As noted in the December 3, 2021, letter from this office, connection fees apply to the proposed project. Please note that the total cash price for connection fees, **$136,986.50 plus the construction phase escrow deposit, YCUA administration fee, and record plan guarantee**, must be paid to YCUA by the Applicant, with a receipt delivered to the Township, before either the building or soil and grading permit is issued. The construction phase escrow deposit and

associated fees and deposits and the entity responsible for maintaining those accounts will be determined during the Detailed Engineering phase of the project in conjunction with your office and the Township Engineer. Should there be any questions please contact this office.

Sincerely,

SDW Digital Signature

SCOTT D. WESTOVER, P.E., Engineering Manager
Ypsilanti Community Utilities Authority

Enclosures as noted

cc: Mr. Luke Blackburn, Mr. Mike Shaffer, File, YCUA
Ms. Belinda Kingsley, Charter Township of Ypsilanti
Mr. Eric Copeland, Mr. Dan Kimball, Township Fire Department
Mr. Eric Humesky, P.E., Township Engineer
Mr. Doug Houser, Applicant
Mr. Brad Brickel, P.E., Applicant's design engineer

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COMMISSIONERS

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CHAIR

RODRICK K. GREEN
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WASHTENAW COUNTY
BOARD OF COUNTY ROAD COMMISSIONERS
555 NORTH ZEEB ROAD
ANN ARBOR, MICHIGAN 48103
WWW.WCROADS.ORG
TELEPHONE (734) 761-1500
FAX (734) 761-3737

SHERYL SODERHOLM SIDDALL, P.E.
MANAGING DIRECTOR

MATTHEW F. MacDONELL, P.E.
DIRECTOR OF ENGINEERING
COUNTY HIGHWAY ENGINEER

JAMES D. HARMON, P.E.
DIRECTOR OF OPERATIONS

DANIEL D. ACKERMAN
DIRECTOR OF FINANCE & IT

January 25, 2022

Ms. Julie Kroll
Flies & Vandenbrink
27725 Stansbury Blvd, Suite 195
Farmington Hills, MI 48334

RE: Permit Application 18386 – "Project Yoga"
Textile Road between McKean and Rawsonville Roads

Julie,

The Washtenaw County Road Commission (WCRC) reviewed the traffic impact study (TIS) for the proposed "Project Yoga" site development dated December 23, 2021. At the January 19, 2022, meeting between WCRC and your client, WCRC expressed concerns that the proposed site layout depicting three commercial driveway approaches connecting to Textile Road which does not meet access management principles referenced in WCRC *Procedures and Regulations for Permit Activities*. Representatives from the Amazon group conveyed the necessity of this layout to achieve logistical goals and expectations for the site.

After careful consideration WCRC is willing to issue three commercial driveway approach permits for the proposed "Project Yoga" development if Amazon agrees to the following mitigation measures:

1. The right turn auxiliary lane(s) per the recommendation of the TIS is constructed.

2. A continuous left turn lane is constructed between the intersections of McKean Road and Rawsonville Road.

3. The traffic signal equipment at the intersections of Textile & McKean and Textile & Rawsonville is modernized to promote safe and smooth traffic flow between the two intersections. It is important to note that the traffic signal at the intersection of Textile and Rawsonville Roads is under the jurisdiction of Wayne County. WCRC will contact our peers at Wayne County to learn if they have reservations to relinquish control of the signal to WCRC.

Additionally, the terms of the permit shall be in accordance with WCRC Procedures and Regulations for Permit Activities Section 3.1.7 Revocation: WCRC may revoke any driveway or road access permit if at any time the permitted object, use or activity fails to meet the requirements of these Procedures and Regulations, MCL §247.321 et seq, or the terms and conditions of the permit itself. Factors that may indicate a new or increased safety hazard include, but are not limited to, the following:

a. Elevated crash rate
b. Increased traffic volume on the main road
c. Increased turning movements using the driveway or road approach
d. Improper drainage
e. Inadequate sight distance
f. Excessive grades of driveway
g. Improper driveway design for new use
h. Change in functional classification of the public road

WCRC will monitor the permitted driveways and Textile Road to be sure traffic operates in a reasonably safe and convenient manner.

Please revise the TIS accordingly to reflect these mitigation requirements. I can be reached at 734-327-6679 or email at mccullochm@wcroads.org should you have questions or concerns.

Sincerely,

Mark H. McCulloch
Senior Project Manager
Washtenaw County Road Commission

Cc: Sheryl Siddall / Matt MacDonell / Gary Streight / Brent Schlack /
Elena Yadykina / Gary Streight / Lisa Jones – WCRC
Brenda Stumbo / Heather Jarrell Roe / Stan Eldridge /
Jason Iacoangeli / Amy Steffens – Ypsilanti Township
Doug Houser – Seefried Industrial Properties
Ben Carlisle – Carlisle / Wortman
Eric Humesky - Stantec

EVAN N. PRATT, P.E.

WATER RESOURCES COMMISSIONER
705 North Zeeb Road
P.O. Box 8645
Ann Arbor, MI 48107-8645

email: drains@washtenaw.org
https://www.washtenaw.org/drains

HARRY SHEEHAN
Chief Deputy Water Resources Commissioner

SCOTT A. MILLER, P.E.
Deputy Water Resources Commissioner

Telephone 734.222.6860
Fax 734.222.6803

December 2, 2021

Mr. Brad Brickel, P.E.
Nowak & Fraus Engineers
46777 Woodward Avenue
Pontiac, Michigan 48342

RE: Project Yoga
10635 Textile Road
Ypsilanti Township, Michigan
WCWRC Project No. 7658

Dear Mr. Brickel:

This office has reviewed the site plans for the above-referenced project to be located in Ypsilanti Township. These plans have a job number of M278, a date of November 11, 2021, and were received on November 15, 2021. As a result of our review, we would like to offer the following comments:

1. The draft geotechnical report that was included in the submittal did not include information from the infiltration testing that was performed on November 9, 2021. A signed and sealed copy of the infiltration testing report must be included with the next submittal.
2. Plan sheets SP 7.11 through SP 7.13 are titled, "Infiltration Reports Plan" but do not include the test pit logs from the infiltration testing activities.
3. Reference to inspection of the infiltration basin in the maintenance plan notes on plan sheet SP 7.9 should be stricken since no infiltration is being provided within the proposed basin.
4. The area used on Worksheets W4 and W6 does not reflect the total pervious cover area listed on W1. The curve number used on W4 and W6 must be a weighted curve number based on those portions of the pervious cover area that are underlain by hydrologic soil groups B and D/B.
5. If the calculated elevation for the required detention volume (in this case, 120% of the 100-year storm volume) is lower than the outlet structure rim elevation, the outlet calculations must use the rim elevation.

6. The hydraulic gradient for the 10-year flow pipe capacity calculations should begin at the 2-year storm elevation within the basin. Once that adjustment has been made, verify that the hydraulic gradient is located below the top of the pipes throughout the pipe network.
7. The trees and shrubs shown around the detention basin must be placed beyond the freeboard elevation of the basin.
8. The end section label on plan sheet SP 4.6 does not point toward an end section.
9. Please see the attached invoice for the current fees and remit these fees upon receipt. As requested, the invoice is being submitted directly to Seefried Properties.

At your convenience, please send us a complete set of revised plans and the additional information requested above so that we may continue our review. If you have any questions, please contact our office.

Sincerely,

Theresa M. Marsik, P.E.
Stormwater Engineer
(approval\Project Yoga rev1)

cc: Doug Houser, Seefried Properties
Jason Iacoangeli, Ypsilanti Township Planning Director
Belinda Kingsley, Ypsilanti Township Planning & Zoning Coordinator
Doug Winters, McLain and Winters
Eric Humesky, P.E., Ypsilanti Township Engineer (Stantec)

Owner / Developer

SEEFRIED INDUSTRIAL PROPERTIES
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

Architect

ATLANTIC AE
577 W. Church Ave.
Longwood, FL 32750
Tel. (866) 462-8523

CONTACT:
Mr. Krystian Krepa

Civil Engineer

NOWAK & FRAUS ENGINEERS
46777 Woodward Ave.
Pontiac, MI 48342-5032
Tel. (248) 332-7931
Fax. (248) 332-8257

CONTACT:
Mr. Timothy L. Germain, P.E.
Mr. Brad W. Brickel, P.E.

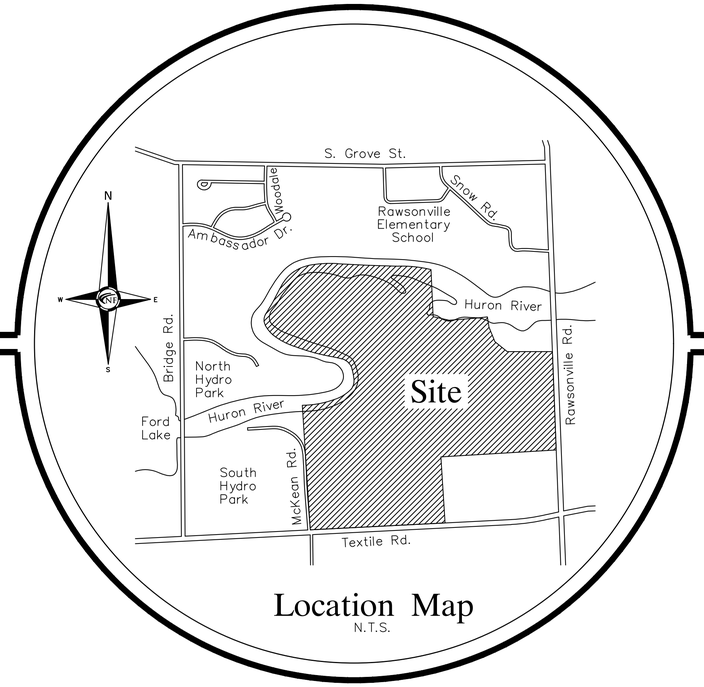
Landscape Architect

NOWAK & FRAUS ENGINEERS
46777 Woodward Ave.
Pontiac, MI 48342-5032
Tel. (248) 332-7931
Fax. (248) 332-8257

CONTACT:
Mr. George R. Ostrowski, RLA, LEED AP

Township of Ypsilanti, Washtenaw County, Michigan
PRELIMINARY SITE PLAN DOCUMENTS
Prepared For
Seefried Industrial Properties

PART OF THE SE 1/4 OF SECTION 24, T.3S., R.7E.,
TOWNSHIP OF YPSILANTI,
WASHTENAW COUNTY, MICHIGAN



Location Map
N.T.S.

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D6	Water Main Detail Sheet
D7	Storm Sewer Detail Sheet
D8	Storm Sewer Detail Sheet
D9	Soil Erosion Detail Sheet

LEGAL DESCRIPTION - AS SURVEYED

PART OF THE SOUTH 1/2 OF FRACTIONAL SECTION 24, TOWN 3 SOUTH, RANGE 7 EAST, YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT DISTANT NORTH 88 DEGREES 53 MINUTES 00 SECONDS EAST, 156.04 FEET FROM THE SOUTH 1/4 CORNER OF SAID FRACTIONAL SECTION 24; THENCE NORTH 00 DEGREES 12 MINUTES 07 SECONDS EAST, 815.30 FEET; THENCE NORTH 45 DEGREES 39 MINUTES 26 SECONDS EAST, 404.46 FEET; THENCE NORTH 53 DEGREES 39 MINUTES 38 SECONDS EAST, 297.36 FEET; THENCE NORTH 24 DEGREES 08 MINUTES 17 SECONDS EAST, 642.53 FEET; THENCE NORTH 19 DEGREES 08 MINUTES 01 SECONDS WEST, 127.82 FEET; THENCE NORTH 52 DEGREES 16 MINUTES 16 SECONDS WEST, 156.98 FEET; THENCE NORTH 81 DEGREES 35 MINUTES 06 SECONDS WEST, 1083.87 FEET TO POINT 'C'; THENCE CONTINUING NORTH 81 DEGREES 35 MINUTES 06 SECONDS WEST, 178 FEET MORE OR LESS TO THE CENTERLINE OF HURON RIVER; THENCE DOWN STREAM ALONG THE CENTERLINE OF SAID HURON RIVER, AS IT WINDS AND TURNS ABOUT 2017 FEET TO A POINT ON THE NORTH-SOUTH 1/8 LINE OF THE SOUTHEAST 1/4 OF SAID FRACTIONAL SECTION 24; THENCE SOUTH 00 DEGREES 18 MINUTES 24 SECONDS EAST ALONG SAID NORTH-SOUTH 1/8 LINE 159 FEET MORE OR LESS TO POINT 'B' BEING NORTH 34 DEGREES 56 MINUTES 32 SECONDS EAST, 490.00 FEET AND SOUTH 85 DEGREES 20 MINUTES 17 SECONDS EAST, 1300.00 FEET FROM SAID POINT 'C'; THENCE CONTINUING ALONG SAID NORTH-SOUTH 1/ LINE SOUTH 00 DEGREES 18 MINUTES 24 SECONDS EAST, 330.00; THENCE SOUTH 74 DEGREES 54 MINUTES 36 SECONDS EAST, 170.35 FEET; THENCE NORTH 87 DEGREES 43 MINUTES 24 SECONDS EAST, 284.05 FEET; THENCE NORTH 86 DEGREES 22 MINUTES 24 SECONDS EAST, 115.07 FEET; THENCE SOUTH 05 DEGREES 53 MINUTES 36 SECONDS EAST, 106.77 FEET; THENCE SOUTH 19 DEGREES 53 MINUTES 36 SECONDS EAST, 163.87 FEET; THENCE SOUTH 48 DEGREES 54 MINUTES 36 SECONDS EAST, 164.41 FEET; THENCE SOUTH 87 DEGREES 39 MINUTES 36 SECONDS EAST, 467.28 FEET; THENCE NORTH 81 DEGREES 16 MINUTES 24 SECONDS EAST, 2.53 FEET TO A POINT ON THE WEST LINE OF RAWSONVILLE ROAD (100 FEET WIDE 1/2 WIDTH); THENCE SOUTH 00 DEGREES 07 MINUTES 24 SECONDS WEST ALONG SAID WEST LINE OF RAWSONVILLE ROAD, 1023.10 FEET; THENCE SOUTH 88 DEGREES 53 MINUTES 00 SECONDS WEST, 1200.43 FEET; THENCE SOUTH 01 DEGREES 07 MINUTES 00 SECONDS EAST, 720.00 FEET TO A POINT ON THE SOUTH LINE OF SAID FRACTIONAL SECTION 24; THENCE SOUTH 88 DEGREES 53 MINUTES 00 SECONDS WEST ALONG SAID SOUTH LINE OF FRACTION SECTION 24, 1169.28 FEET TO THE POINT OF BEGINNING.

CONTAINING:
4,213,091 SQUARE FEET OR 96.72 ACRES OF LAND (GROSS)
4,142,976 SQUARE FEET OR 95.11 ACRES OF LAND (NET)

Project Name

Project Yoga
10635 Textile Rd.

PROJECT NARRATIVE

SEEFRIED PROPERTIES IS PROPOSING A HIGH QUALITY DEVELOPMENT ON APPROXIMATELY 100 ACRES OF PROPERTY LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF TEXTILE RD AND RAWSONVILLE RD IN YPSILANTI, MI. THE SITE IS CURRENTLY ZONED AS I–2 GENERAL INDUSTRIAL AND THUS THE USE IS WITHIN THE OUTLINED PARAMETERS. THE DEVELOPMENT PLAN PROPOSES A SINGLE STORY BUILDING WITH SINGLE STORY OFFICE LOCATED ON THE SOUTH SIDE OF THE BUILDING. THE SITE INCLUDES VEHICLE PARKING FOR THE OPERATIONS OF THE FACILITY AS WELL AS LOADING DOCK POSITIONS. THE STRUCTURE WILL BE MADE OF PRECAST CONCRETE WALLS AND STRUCTURAL STEEL FRAMEWORK WITH A CONCRETE FLOOR AND MEMBRANE ROOF SYSTEM. THERE IS A STRUCTURAL STEEL CANOPY ON THE EAST AND WEST SIDES OF THE BUILDING TO PROTECT THAT AREA FROM THE ELEMENTS. THE DEVELOPMENT WILL BE SERVICE BY PUBLIC SEWER AND WATER BOTH LOCATED AT THE RIGHT OF WAY. STORMWATER MANAGEMENT WILL BE PROPOSED IN ACCORDANCE WITH THE WASHTENAW COUNTY WATER RESOURCE COMMISSION REQUIREMENTS. THE DEVELOPMENT IS PLANED TO BE CONSTRUCTED IN ONE PHASE.

REVISIONS:
2021-11-11 ISSUED FOR SITE PLAN REVIEW
2022-01-07 REVISED PER SITE PLAN REVIEW

PARKING REQUIREMENTS (PER TWP)

OFFICE
1 SPACE PER EACH 250 SFT. OF GROSS FLOOR AREA

INDUSTRIAL
FIVE PLUS ONE FOR EVERY ONE EMPLOYEE IN THE LARGEST WORKING SHIFT, OR FIVE PLUS ONE FOR EVERY 1,700 SQUARE FEET OF USABLE FLOOR SPACE, WHICHEVER IS THE GREATER.

OFFICE SPACE 16,900 SFT / 250 = 68 SPACES REQUIRED

INDUSTRIAL SPACE 166,284 (85% USEABLE) = 141,341.4

141,342.4 / 1700 = 83 SPACES REQUIRED.
149 EMPLOYEES +5 = 154 SPACES REQUIRED

TOTAL SPACES REQUIRED = 222 (68+154) SPACES INCLUDING 7 BARRIER FREE SPACES

TOTAL SPACES PROVIDED = 277 SPACES INCLUDING 9 BARRIER FREE SPACES

PARKING DATA

CATEGORY	PROVIDED
ASSOCIATE LOT	
ASSOCIATE STALLS	213
MANAGER STALLS	15
DSP MANAGEMENT STALLS	34
CUSTOMER STALLS	3
VISITOR STALLS	3
ACCESSIBLE STALLS (AUTO)	7
ACCESSIBLE STALLS (VAN)	2
VAN DRIVER PERSONAL (9'X18')	0
ASSOCIATE PARKING LOT TOTAL (9'X18')	277
VAN LOT	
VAN DRIVER PERSONAL STALLS (11'X27')	180
STANDARD VAN STALLS (11'X27')	662
VAN BUFFER STALLS (11'X27')	33
DRIVER TRAINING STALLS (11'X27')	66
VAN PARKING LOT TOTAL (11'X27')	941
LOADING & STAGING AREA	
VAN STAGING SPOTS**	90
VAN LOADING SPOTS	90
TRUCK YARD	
LOADING DOCK SPACES	17
TRAILER PARKING SPACES (INCL. HOSTLER)	13
VAN MAINTENANCE ALSO REFERRED TO AS VAN BUFFER & SKILL DRILL TRAINING	
**VAN STAGING ALSO REFERRED TO AS VAN QUEUING	

SITE DATA

SITE AREA
GROSS: 4,212,695.21 SFT. OR 96.71 ACRES
NET (60' R.O.W.): 4,142,579.85 SFT. OR 95.10 ACRES

ZONING
EXISTING: I–1 (LIGHT INDUSTRIAL DISTRICT)

SITE AREA	4,142,579.85 SFT.	100.0%
BUILDING FOOTPRINT	183,184.36 SFT.	4.4%
PARKING & DRIVES	1,115,132.44 SFT.	26.9%
OPEN SPACE	2,844,263.05 SFT.	68.7%

SETBACK REQUIREMENTS	REQUIRED	PROVIDED
FRONT:	50'(S)	308.1'(S)
SIDE:	40'(W),40'(E)	227.10'(W),289.70'(E)
REAR:	40'(N)	1,685.7'(N)

Know what's below Call before you dig.

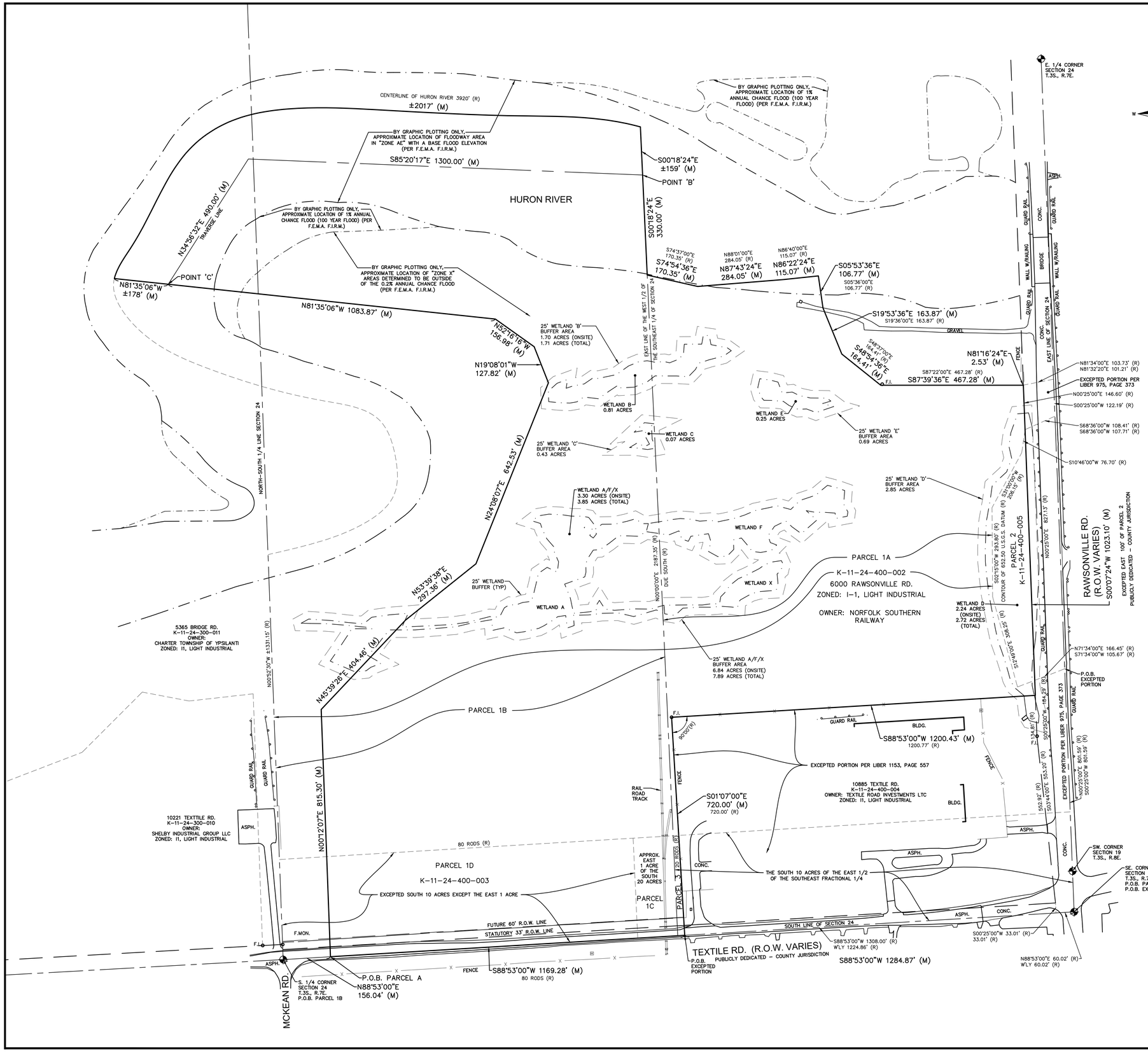
N & F JOB #M278

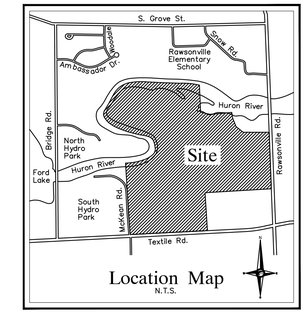
STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER
Brad Brickel

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

PROJECT YOGA





SURVEY NOTES

SEE SHEET SP 1.21 FOR SURVEY NOTES & PROPERTY INFORMATION.

LEGEND

MANHOLE(MH)	EXISTING SANITARY SEWER
CO	EXISTING SAN. CLEAN OUT
HYDRANT(HYD) / GATE VALVE(GVW)	EXISTING WATER MAIN
MANHOLE(MH) / CATCH BASIN(CB)	EXISTING STORM SEWER
CBB	EX. BEEHIVE CATCH BASIN
	EX. UNDERGROUND (UG.) CABLE
UTILITY POLE / GUY POLE / GUY WIRE / UP	OVERHEAD (OH.) LINES
LP	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
ASPH.	ASPHALT
CONC.	CONCRETE
FD. / FND.	FOUND
RET. WALL	RETAINING WALL
R.O.W.	RIGHT-OF-WAY
SPK	SET PK NAIL
(TYP)	TYPICAL
(R)	RECORD
(M)	MEASURED
C/L	CENTERLINE
P/L	PROPERTY LINE
GM	GAS METER
EM	ELECTRIC METER
LS	LANDSCAPE
DS	DOWNSPOUT
GP	GUARD POST
GV	GAS VALVE
CR	CABLE RISER
ER	ELECTRIC RISER
FR	FIBER OPTIC RISER
GR	GAS RISER
PR	PHONE RISER
MB	MAIL BOX
SB	STOP BOX
FP	FLAG POLE
ES	END SECTION
HH	HAND HOLE

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SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Overall Boundary

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
M. Carnaghi

DESIGNED BY:

APPROVED BY:
K. Navaroli

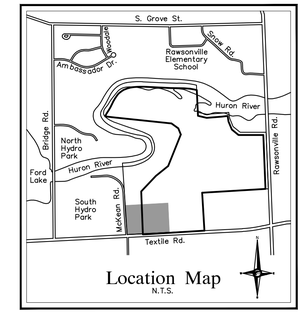
DATE:
September 24, 2021

SCALE: 1" = 150'

150 75 0 75 150 225

NFE JOB NO. **M278-01**

SHEET NO. **SP 1.0**



Location Map
N.T.S.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

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Washtenaw County, Michigan

SHEET
Alta-Topographic Survey

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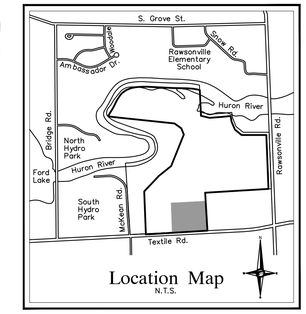
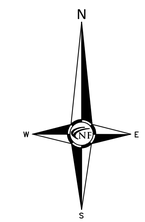
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
M. Carnaghi
DESIGNED BY:

APPROVED BY:
K. Navaroli
DATE:
September 24, 2021
SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 1.1





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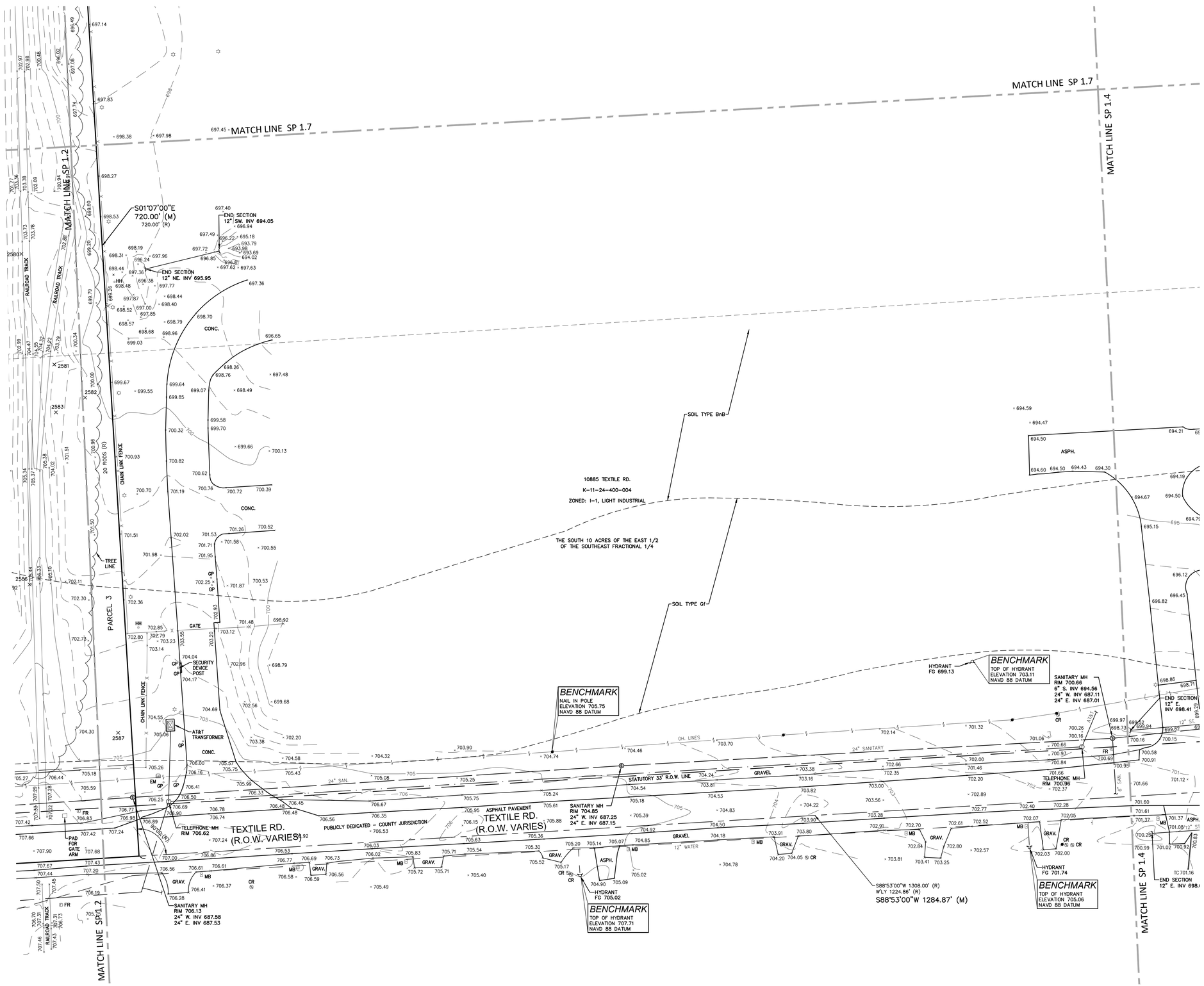
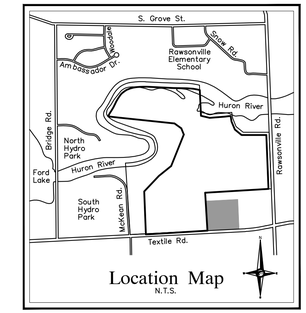
DRAWN BY:
M. Carnaghi
DESIGNED BY:

APPROVED BY:
K. Navaroli
DATE:
September 24, 2021
SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO. **M278-01**
SHEET NO. **SP 1.2**





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DRAWN BY:
M. Carnaghi

DESIGNED BY:

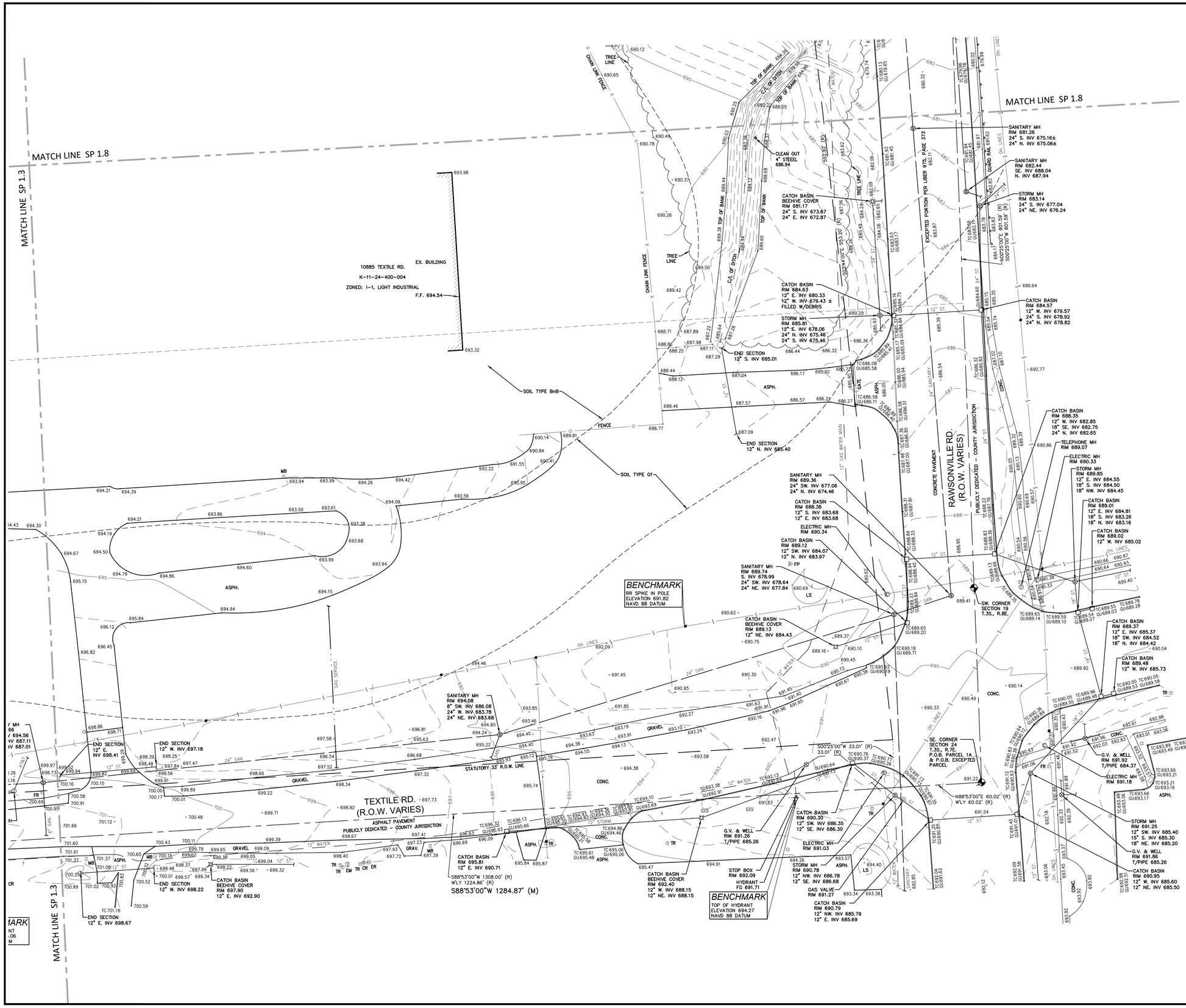
APPROVED BY:
K. Navaroli

DATE:
September 24, 2021

SCALE: 1" = 30'

NFE JOB NO. **M278-01**

SHEET NO. **SP 1.3**


MATCH LINE SP 1.8
MATCH LINE SP 1.3
10885 TEXTILE RD.
K-11-24-400-004
ZONED: I-1, LIGHT INDUSTRIAL
F.F. 694.54
EX. BUILDING
TEXTILE RD.
(R.O.W. VARIES)
ASPHALT PAVEMENT
PUBLICLY DEDICATED - COUNTY JURISDICTION
RAWSONVILLE RD.
(R.O.W. VARIES)
CONCRETE PAVEMENT
PUBLICLY DEDICATED - COUNTY JURISDICTION
EXCEPTED PORTION PER LIBER 075, PAGE 373
BENCHMARK
RR SPIKE IN POLE
ELEVATION 691.82
NAVD 88 DATUM
BENCHMARK
TOP OF HYDRANT
ELEVATION 694.27
NAVD 88 DATUM
S88°53'00"W 1284.87' (M)
S88°53'00"W 1308.00' (R)
W'LY 1224.86' (R)
SANITARY MH
RIM 681.26
24" S. INV 675.16±
24" N. INV 675.06±
SANITARY MH
RIM 682.44
SE. INV 688.04
N. INV 687.94
STORM MH
RIM 683.14
24" S. INV 677.04
24" NE. INV 676.24
CATCH BASIN
BEEHIVE COVER
RIM 681.17
24" S. INV 673.87
24" E. INV 672.87
CLEAN OUT
4" STEEL
686.94
CATCH BASIN
RIM 684.63
12" E. INV 680.33
12" W. INV 679.43 ±
FILLED W/DEBRIS
STORM MH
RIM 685.81
12" E. INV 678.06
24" N. INV 675.46
24" S. INV 675.46
END SECTION
12" S. INV 685.01
END SECTION
12" N. INV 685.40
CATCH BASIN
RIM 684.57
12" W. INV 679.57
24" S. INV 678.92
24" N. INV 678.82
CATCH BASIN
RIM 688.35
12" W. INV 682.85
18" SE. INV 682.75
24" N. INV 682.65
TELEPHONE MH
RIM 689.07
ELECTRIC MH
RIM 690.33
STORM MH
RIM 689.85
12" E. INV 684.55
18" S. INV 684.50
18" NW. INV 684.45
CATCH BASIN
RIM 689.01
12" E. INV 684.81
18" S. INV 683.26
18" N. INV 683.16
CATCH BASIN
RIM 689.02
12" W. INV 685.02
SANITARY MH
RIM 689.36
24" SW. INV 677.06
24" N. INV 674.46
CATCH BASIN
RIM 688.38
12" S. INV 683.68
12" E. INV 683.68
ELECTRIC MH
RIM 690.34
CATCH BASIN
RIM 689.12
12" SW. INV 684.07
12" N. INV 683.97
SANITARY MH
RIM 689.74
S. INV 678.99
24" SW. INV 678.64
24" NE. INV 677.84
CATCH BASIN
BEEHIVE COVER
RIM 689.13
12" NE. INV 684.43
SW. CORNER
SECTION 19
T.3S., R.8E.
CATCH BASIN
RIM 689.37
12" E. INV 685.37
18" SW. INV 684.52
18" N. INV 684.42
CATCH BASIN
RIM 689.48
12" W. INV 685.73
SANITARY MH
RIM 694.08
8" SW. INV 686.08
24" W. INV 683.78
24" NE. INV 683.68
END SECTION
12" E.
INV 698.41
END SECTION
12" W. INV 697.18
END SECTION
12" W. INV 698.22
END SECTION
12" E. INV 698.67
CATCH BASIN
BEEHIVE COVER
RIM 697.90
12" E. INV 692.90
CATCH BASIN
RIM 695.81
12" E. INV 690.71
SE. CORNER
SECTION 24
T.3S., R.7E.
P.O.B. PARCEL 1A
& P.O.B. EXCEPTED
PARCEL
N88°53'00"E 60.02' (R)
W'LY 60.02' (R)
S00°25'00"W 33.01' (R)
CATCH BASIN
RIM 690.30
12" SW. INV 686.35
12" SE. INV 686.30
ELECTRIC MH
RIM 691.03
G.V. & WELL
RIM 691.26
T/PIPE 685.26
STOP BOX
RIM 692.09
HYDRANT
FG 691.71
STORM MH
RIM 690.78
12" NW. INV 686.78
12" SE. INV 686.68
GAS VALVE
RIM 691.27
CATCH BASIN
RIM 690.79
12" NW. INV 685.79
12" E. INV 685.69
CATCH BASIN
RIM 690.95
12" W. INV 685.60
12" NE. INV 685.50
STORM MH
RIM 691.25
12" SW. INV 685.40
15" S. INV 685.30
18" NE. INV 685.20
G.V. & WELL
RIM 691.86
T/PIPE 685.26
G.V. & WELL
RIM 691.92
T/PIPE 684.37
ELECTRIC MH
RIM 691.18
CATCH BASIN
RIM 689.55
12" E. INV 685.55
18" SW. INV 684.78
18" N. INV 684.28
CATCH BASIN
RIM 689.59
12" W. INV 685.59
CATCH BASIN
RIM 689.65
12" E. INV 685.65
18" SW. INV 684.88
18" N. INV 684.38
CATCH BASIN
RIM 689.33
12" W. INV 685.33
CATCH BASIN
RIM 689.84
12" W. INV 685.84
CATCH BASIN
RIM 689.93
12" W. INV 685.93
CATCH BASIN
RIM 689.46
12" W. INV 685.46
CATCH BASIN
RIM 689.36
12" W. INV 685.36
CATCH BASIN
RIM 689.32
12" W. INV 685.32
CATCH BASIN
RIM 689.13
12" W. INV 685.13
CATCH BASIN
RIM 689.05
12" W. INV 685.05
CATCH BASIN
RIM 688.95
12" W. INV 685.95
CATCH BASIN
RIM 688.86
12" W. INV 685.86
CATCH BASIN
RIM 688.77
12" W. INV 685.77
CATCH BASIN
RIM 688.71
12" W. INV 685.71
CATCH BASIN
RIM 688.64
12" W. INV 685.64
CATCH BASIN
RIM 688.46
12" W. INV 685.46
CATCH BASIN
RIM 688.44
12" W. INV 685.44
CATCH BASIN
RIM 688.25
12" W. INV 685.25
CATCH BASIN
RIM 688.12
12" W. INV 685.12
CATCH BASIN
RIM 687.89
12" W. INV 685.89
CATCH BASIN
RIM 687.78
12" W. INV 685.78
CATCH BASIN
RIM 687.57
12" W. INV 685.57
CATCH BASIN
RIM 687.45
12" W. INV 685.45
CATCH BASIN
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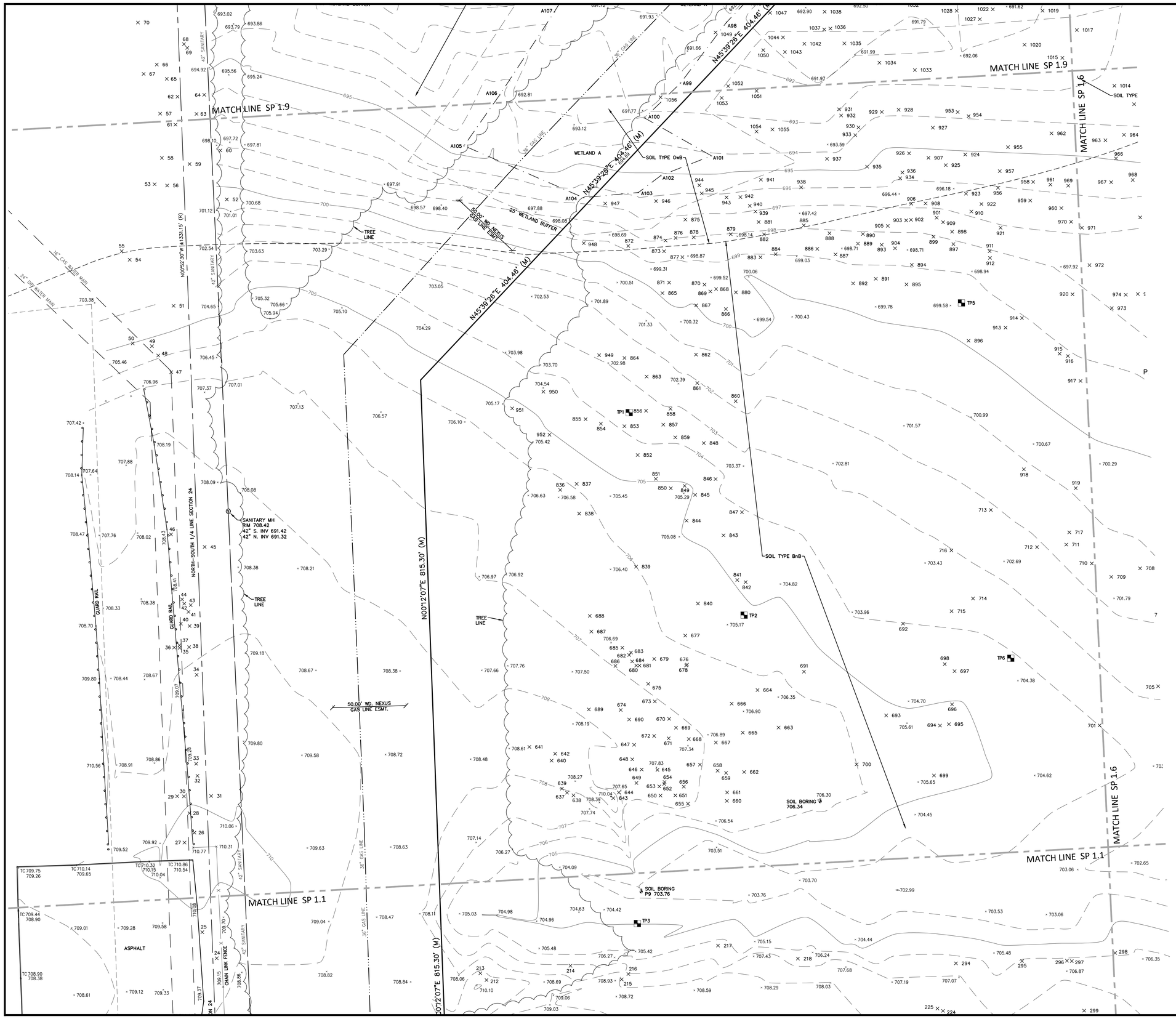

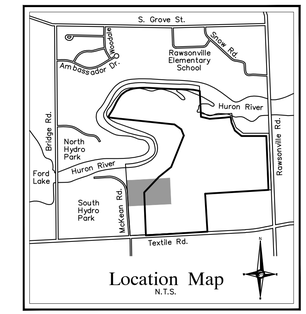

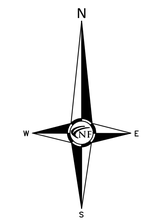

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T: (630) 251-5984

PROJECT LOCATION
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Know what's **below**
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DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
M. Carnaghi

DESIGNED BY:

APPROVED BY:
K. Navaroli

DATE:
September 24, 2021

SCALE: 1" = 30'
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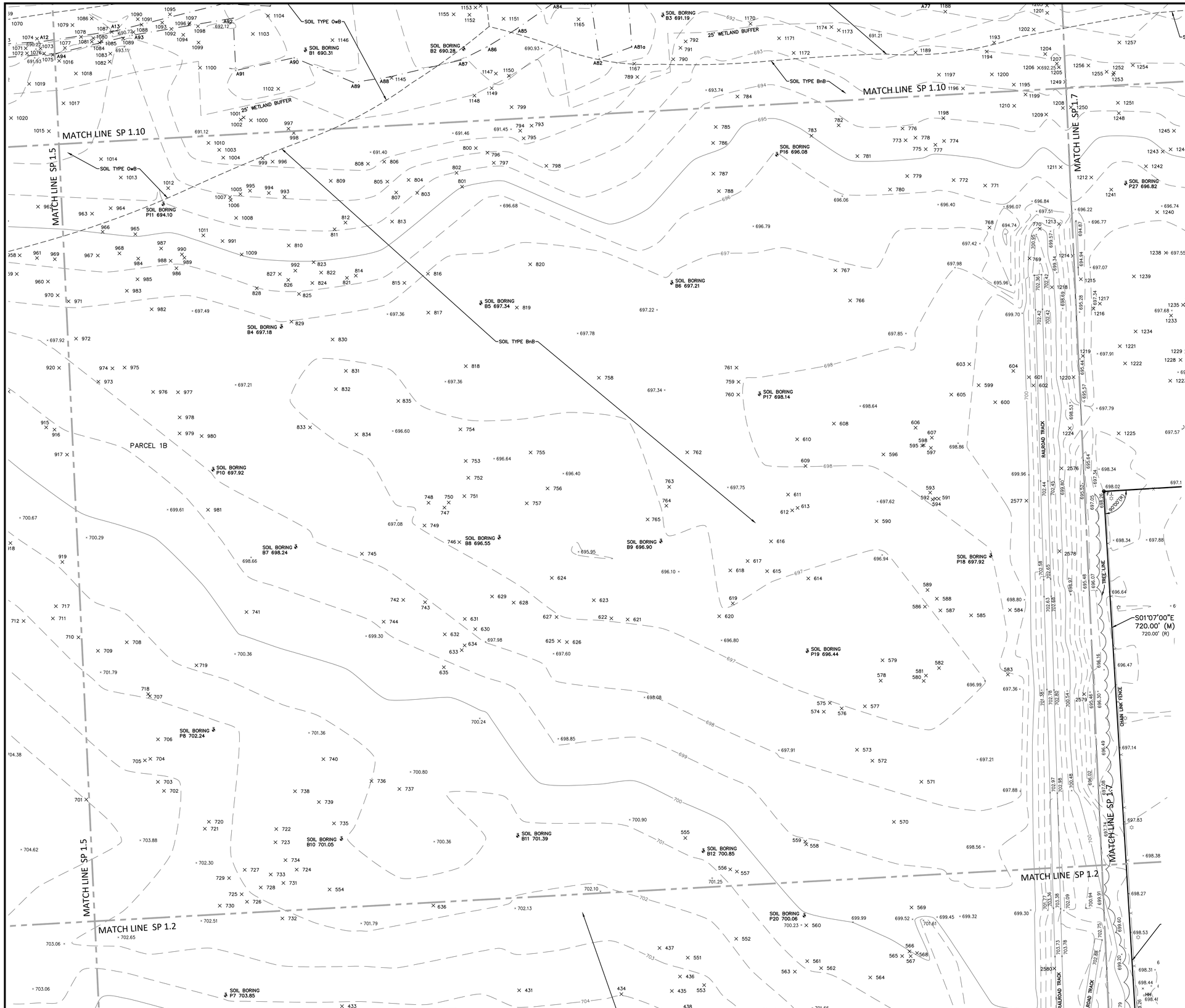
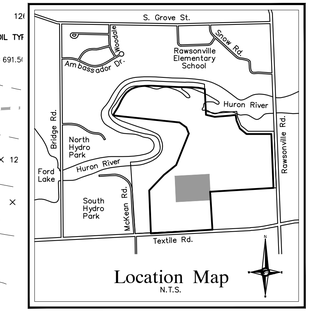
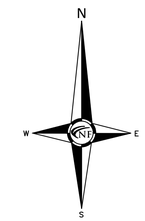
NFE JOB NO. **M278-01**
SHEET NO. **SP 1.5**







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DRAWN BY:
M. Carnaghi
DESIGNED BY:

APPROVED BY:
K. Navaroli
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SCALE: 1" = 30'
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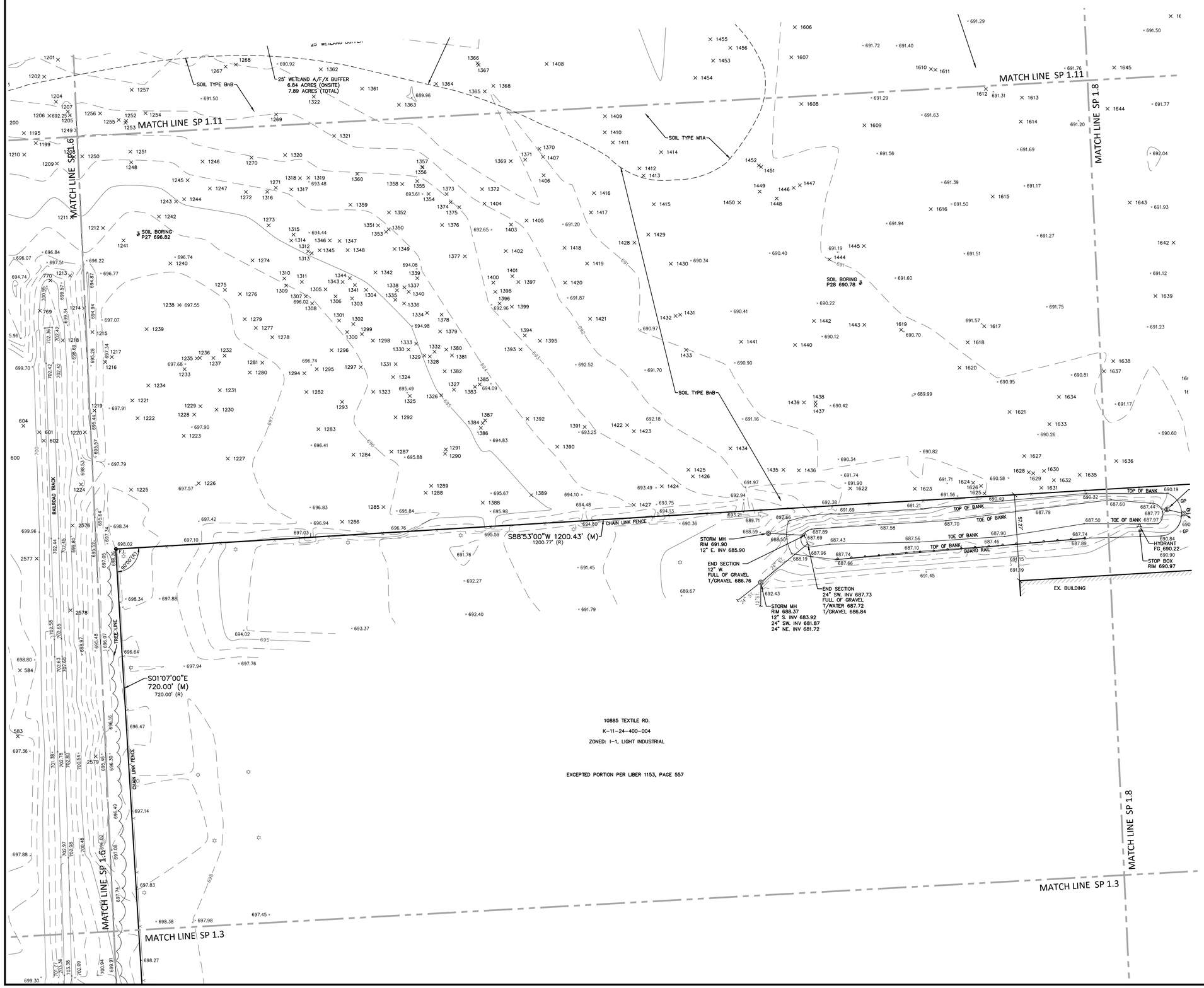
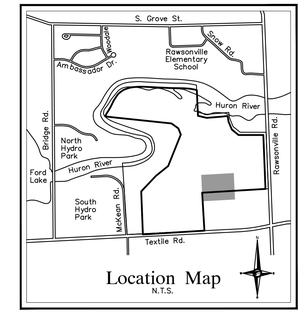
NFE JOB NO. **M278-01**
SHEET NO. **SP 1.6**





Location Map
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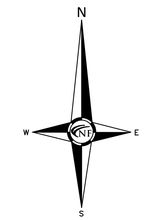

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M. Carnaghi
DESIGNED BY:

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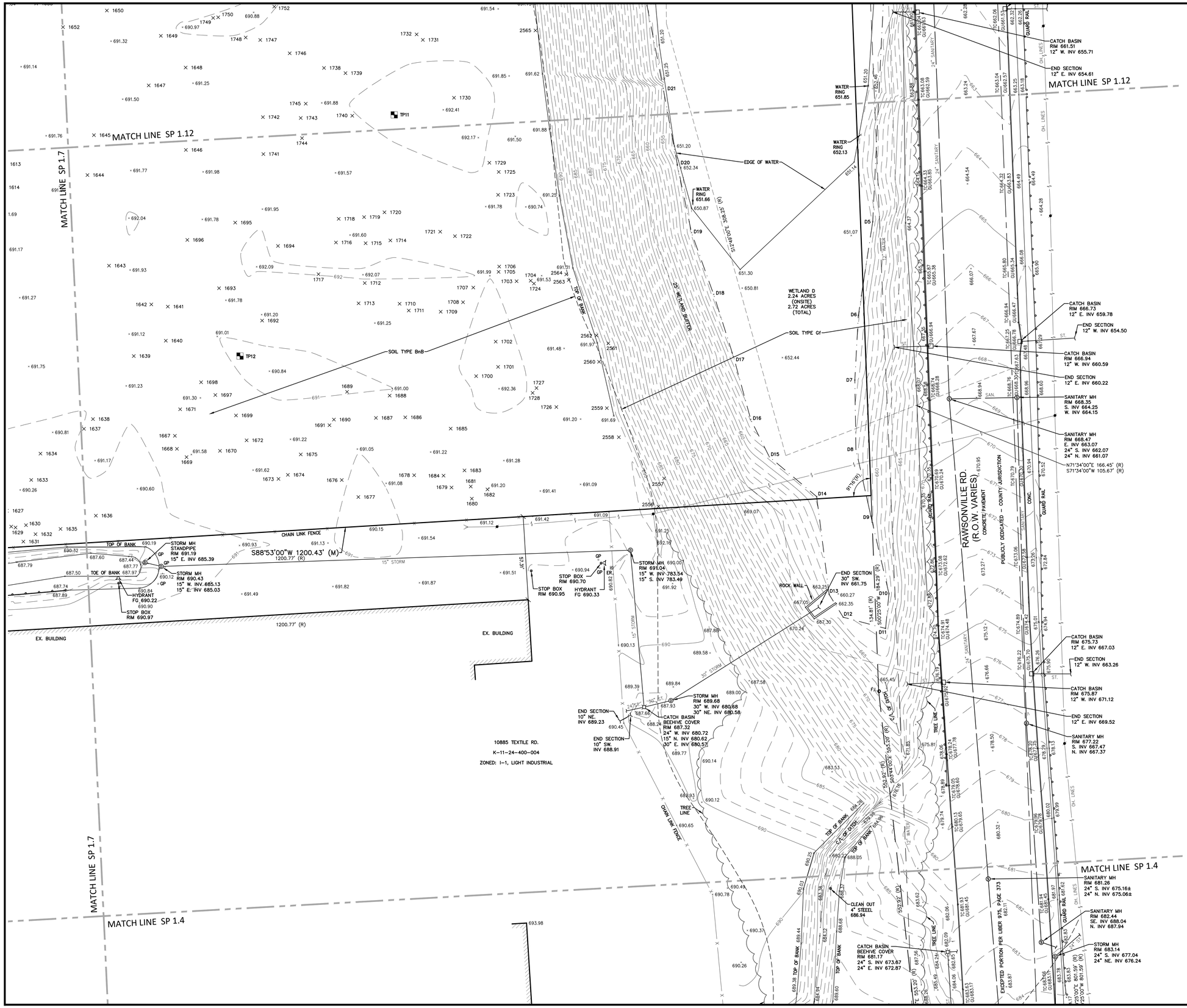
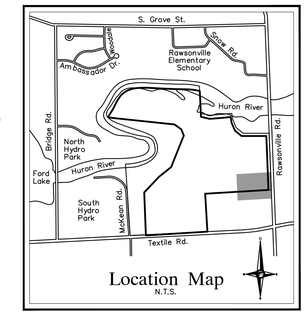
NFE JOB NO. **M278-01**
SHEET NO. **SP 1.7**





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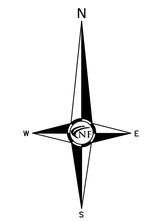

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DESIGNED BY:

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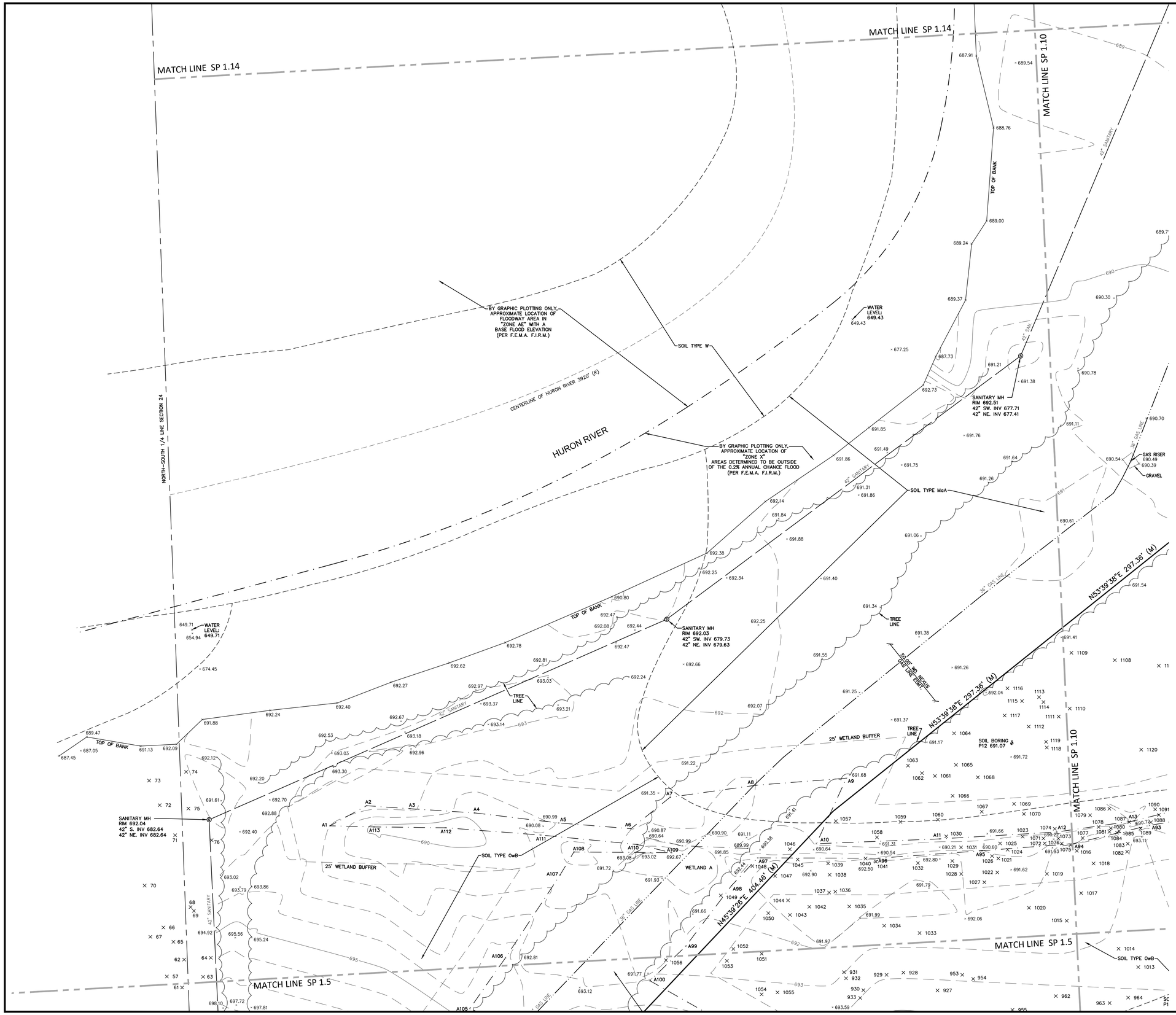

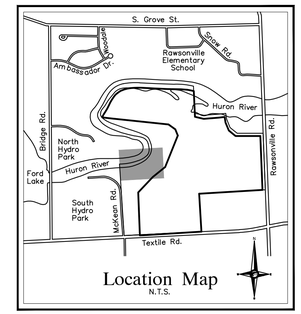

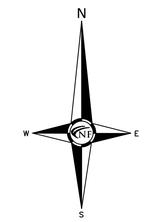

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DRAWN BY:
M. Carnaghi

DESIGNED BY:

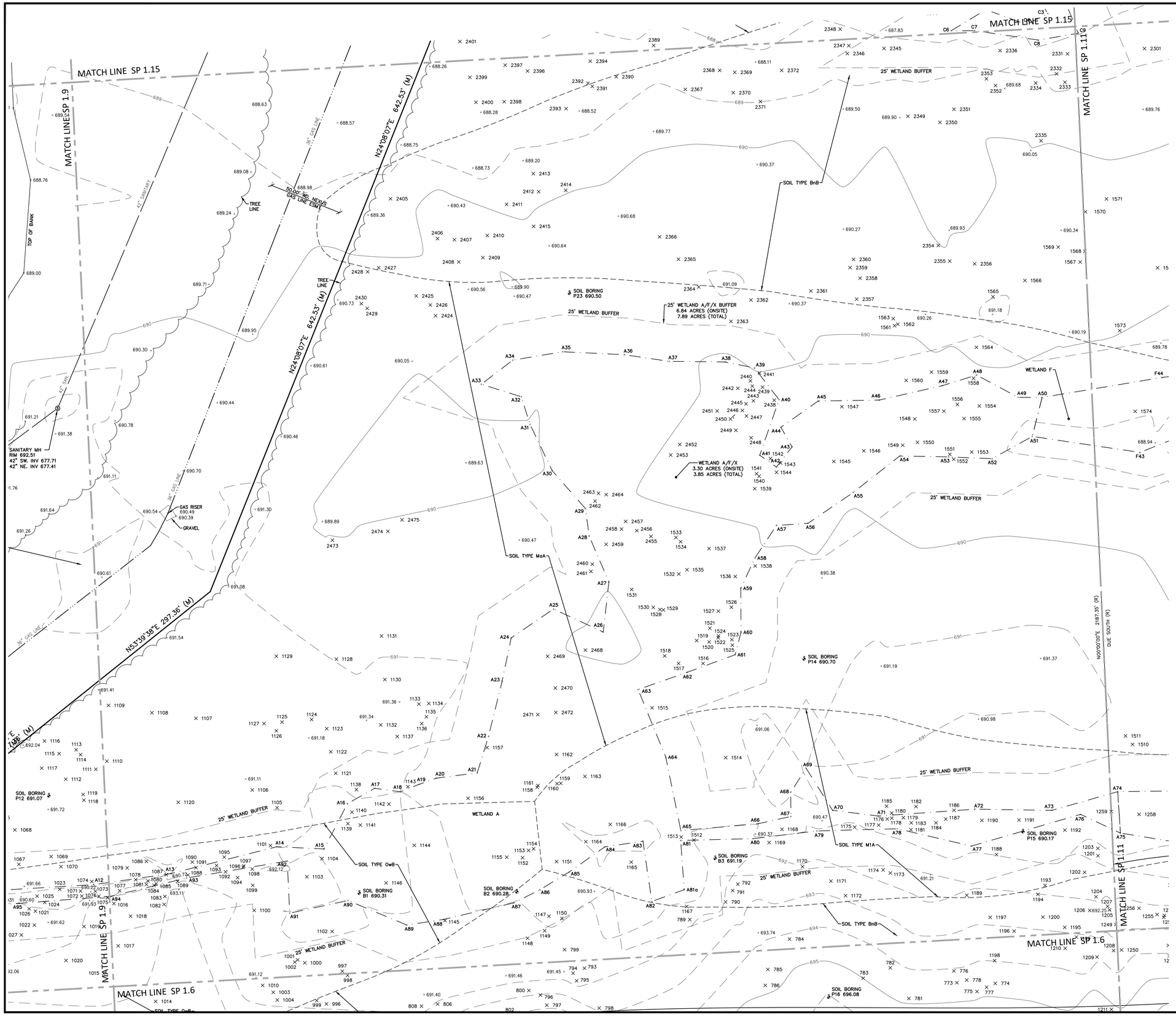
APPROVED BY:
K. Navaroli

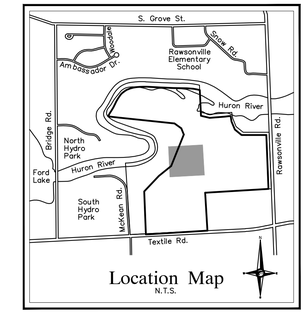
DATE:
September 24, 2021

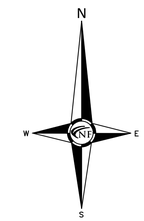
SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO. M278-01

SHEET NO. SP 1.9







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Contact:
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T: (630) 251-5984

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NFE JOB NO. **M278-01**

SHEET NO. **SP 1.10**

MATCH LINE SP 1.16

MATCH LINE SP 1.10

MATCH LINE SP 1.12

MATCH LINE SP 1.7

6000 RAWSONVILLE RD.

ZONED: I-1, LIGHT INDUSTRIAL

PARCEL 1A

K-11-24-400-002

OWNER: NORFOLK SOUTHERN RAILWAY

25' WETLAND A/F/X BUFFER
7.89 ACRES

25' WETLAND BUFFER

25' WETLAND A/F/X BUFFER
6.84 ACRES (ONSITE)
7.89 ACRES (TOTAL)

WETLAND F

WETLAND X

SOIL TYPE BnB

SOIL TYPE MaA

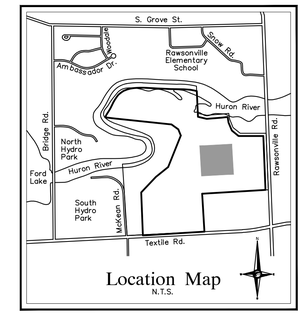
SOIL TYPE M1A

SOIL BORING
P25 689.38

SOIL BORING
P15 690.17

N00°00'00"E 2187.35' (R)

DUE SOUTH (R)



Location Map
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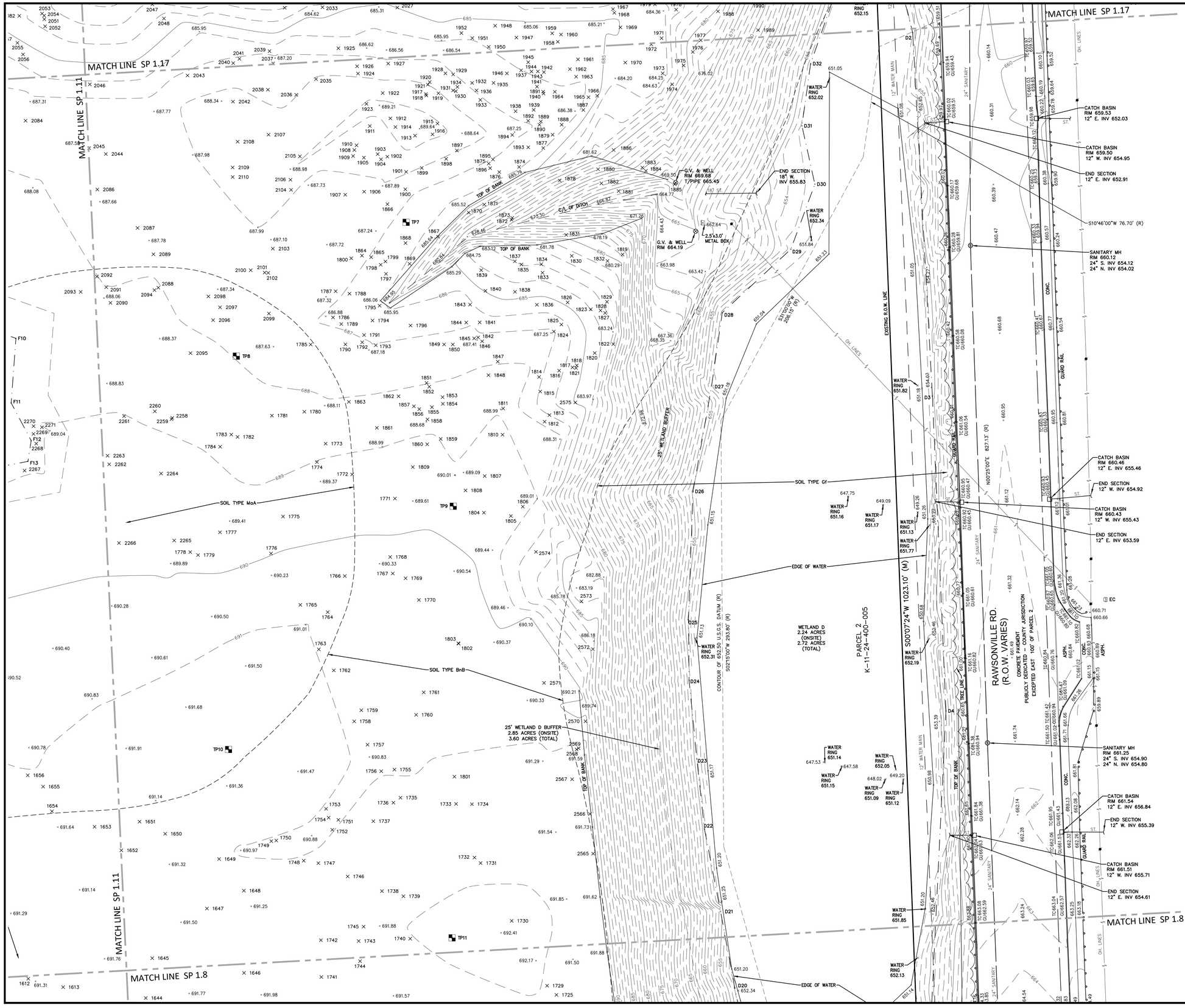
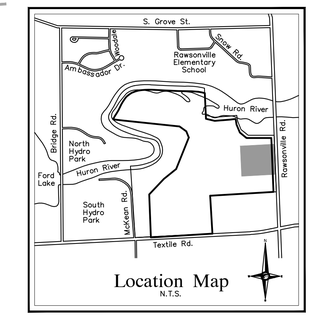
SP 1.11





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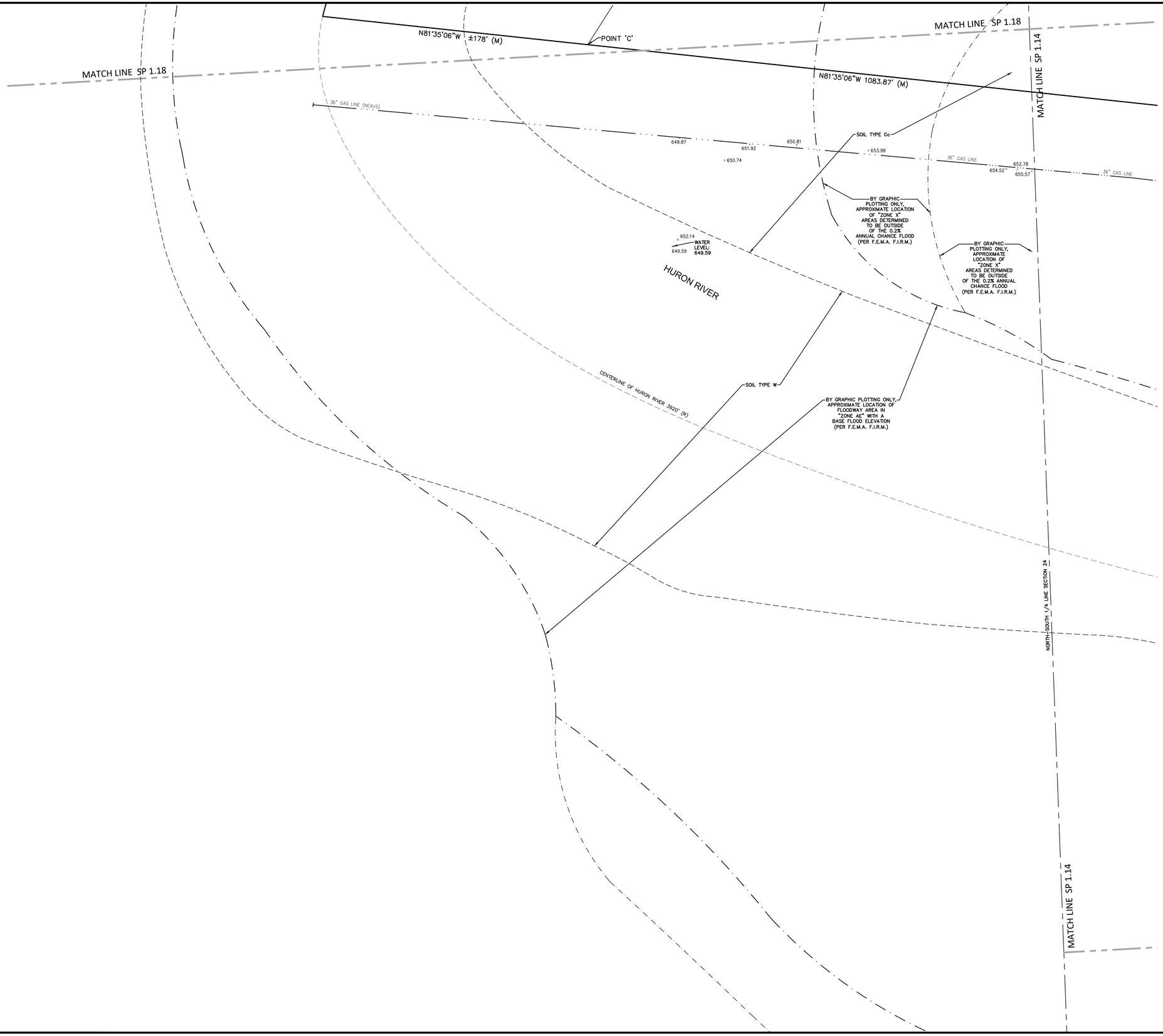

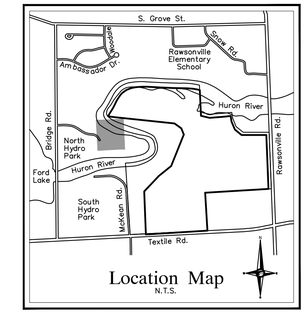

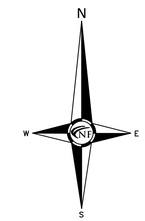

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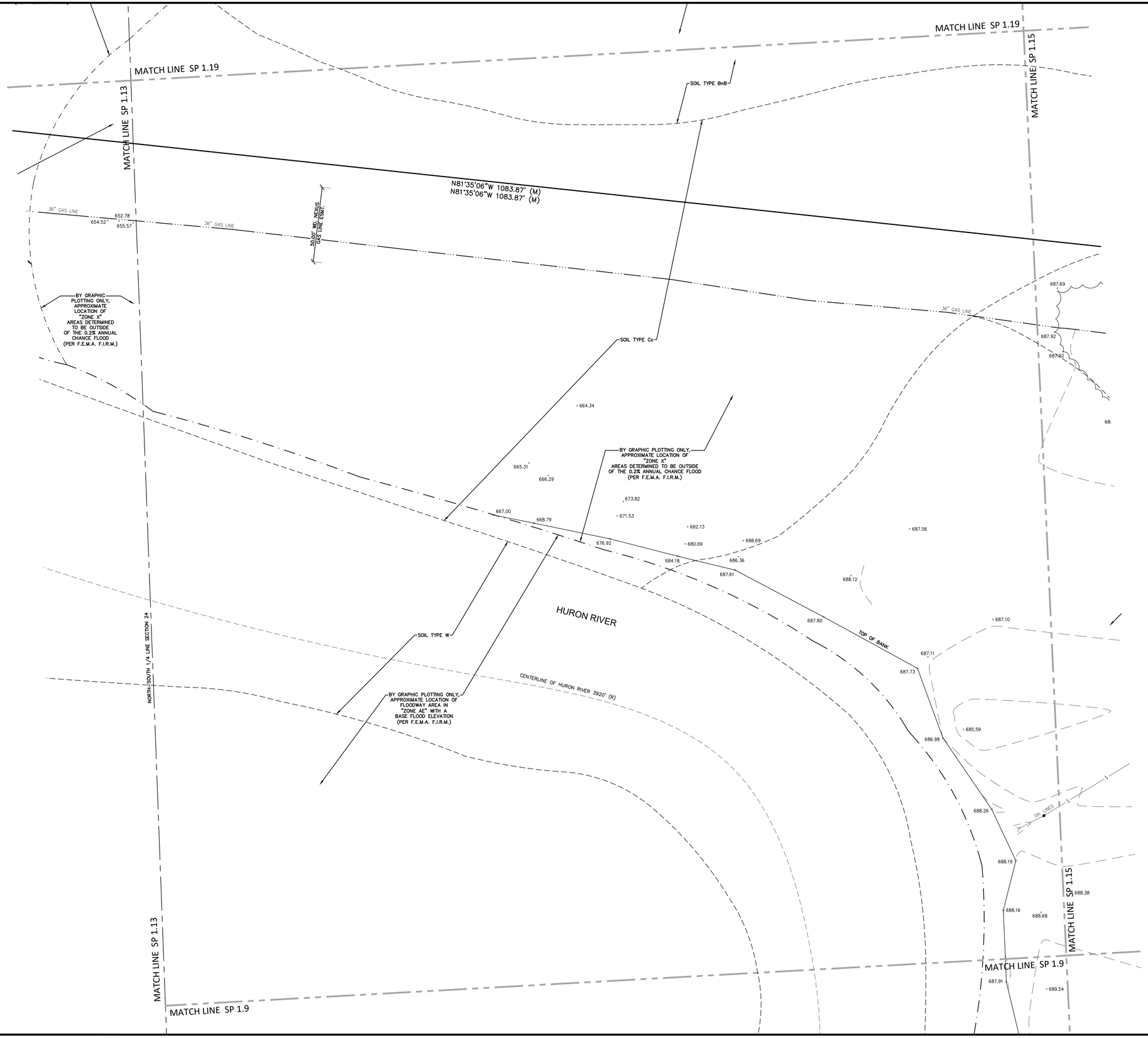

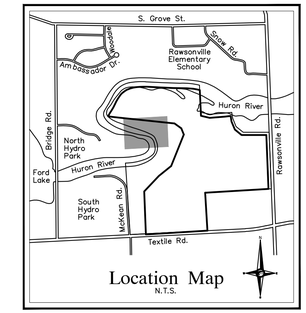

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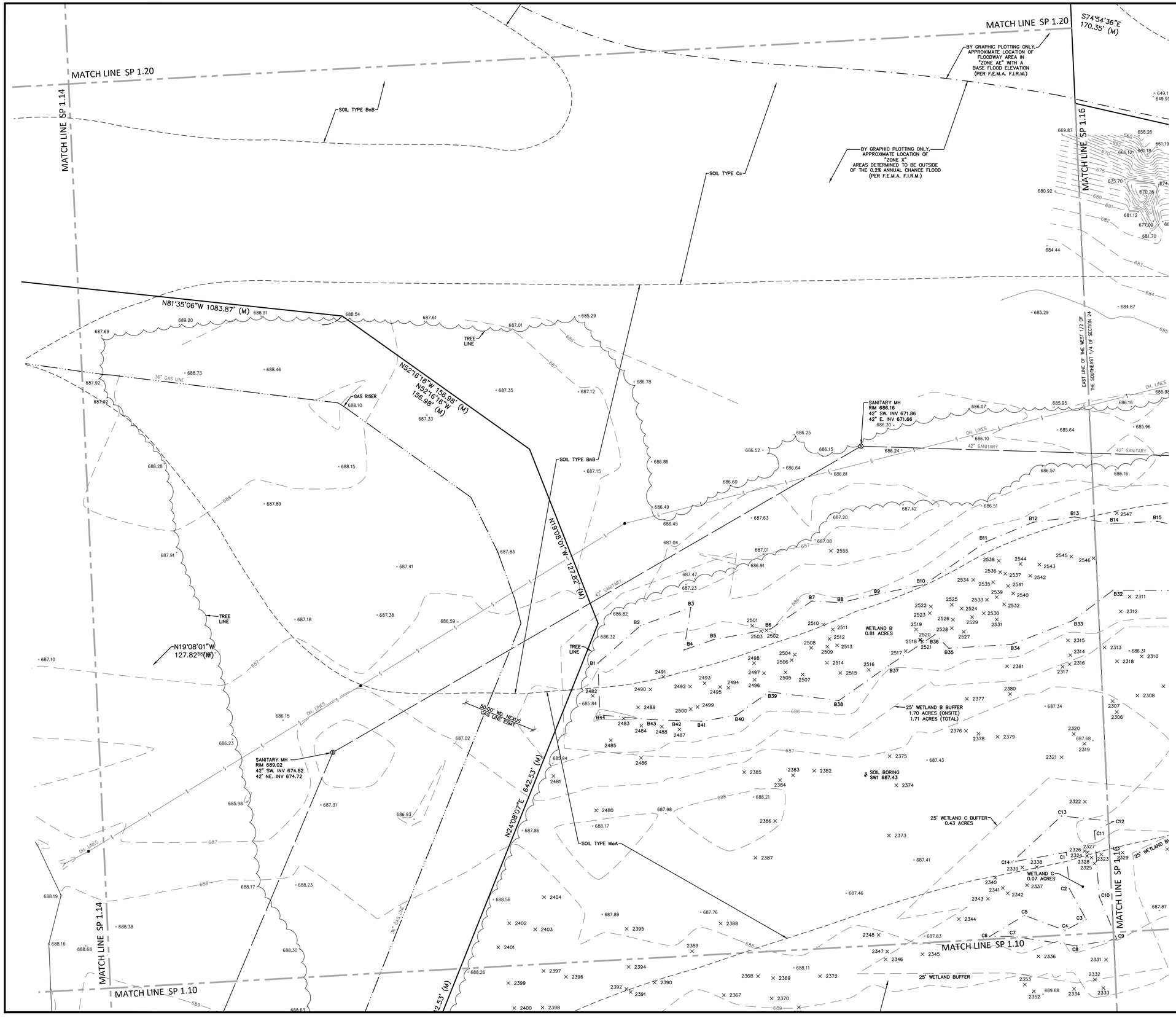

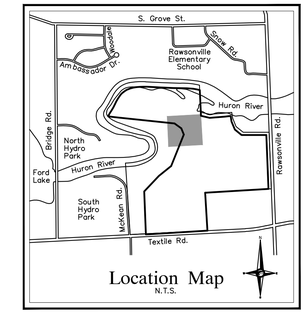

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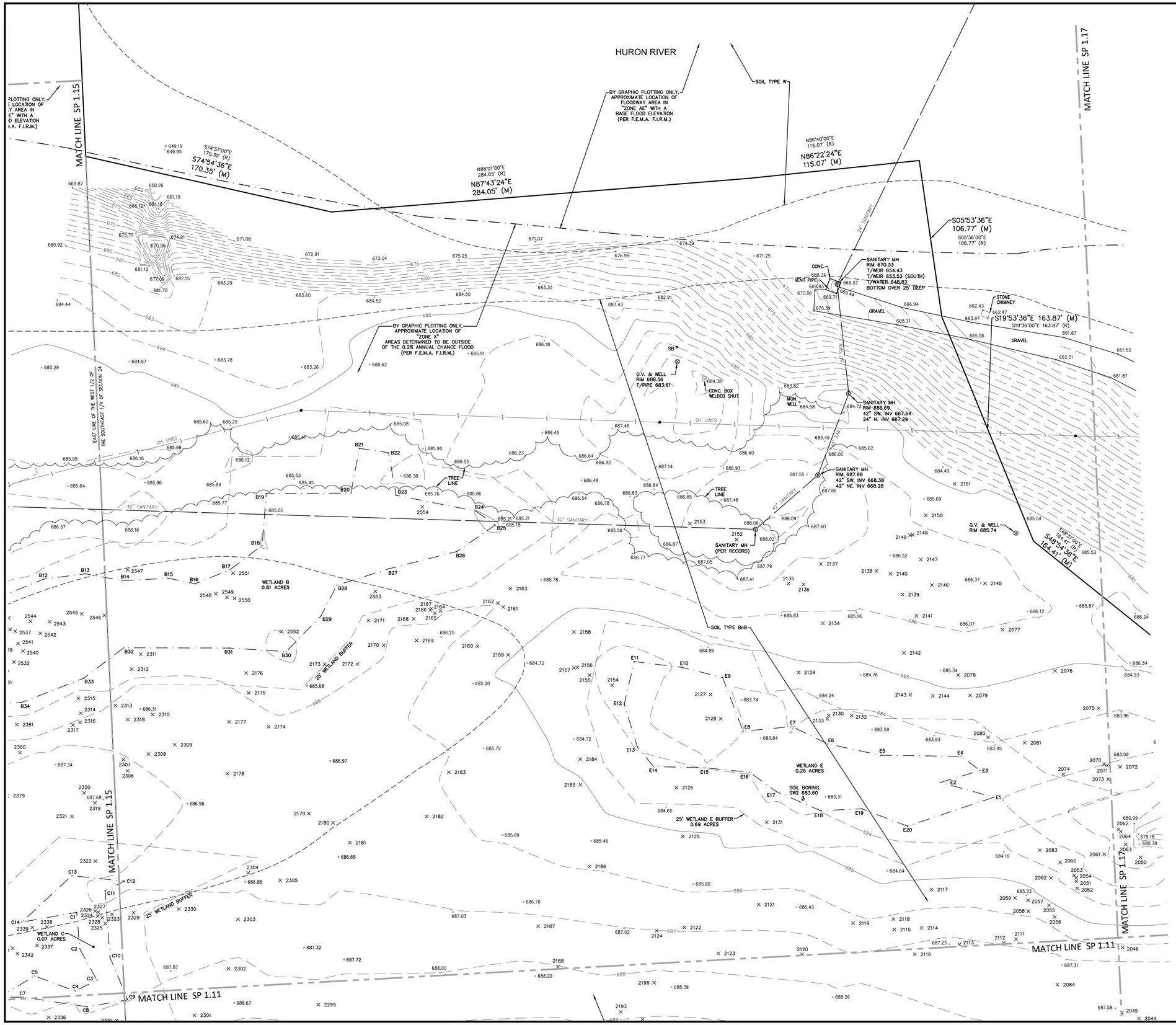

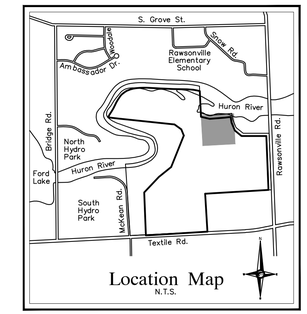

Location Map
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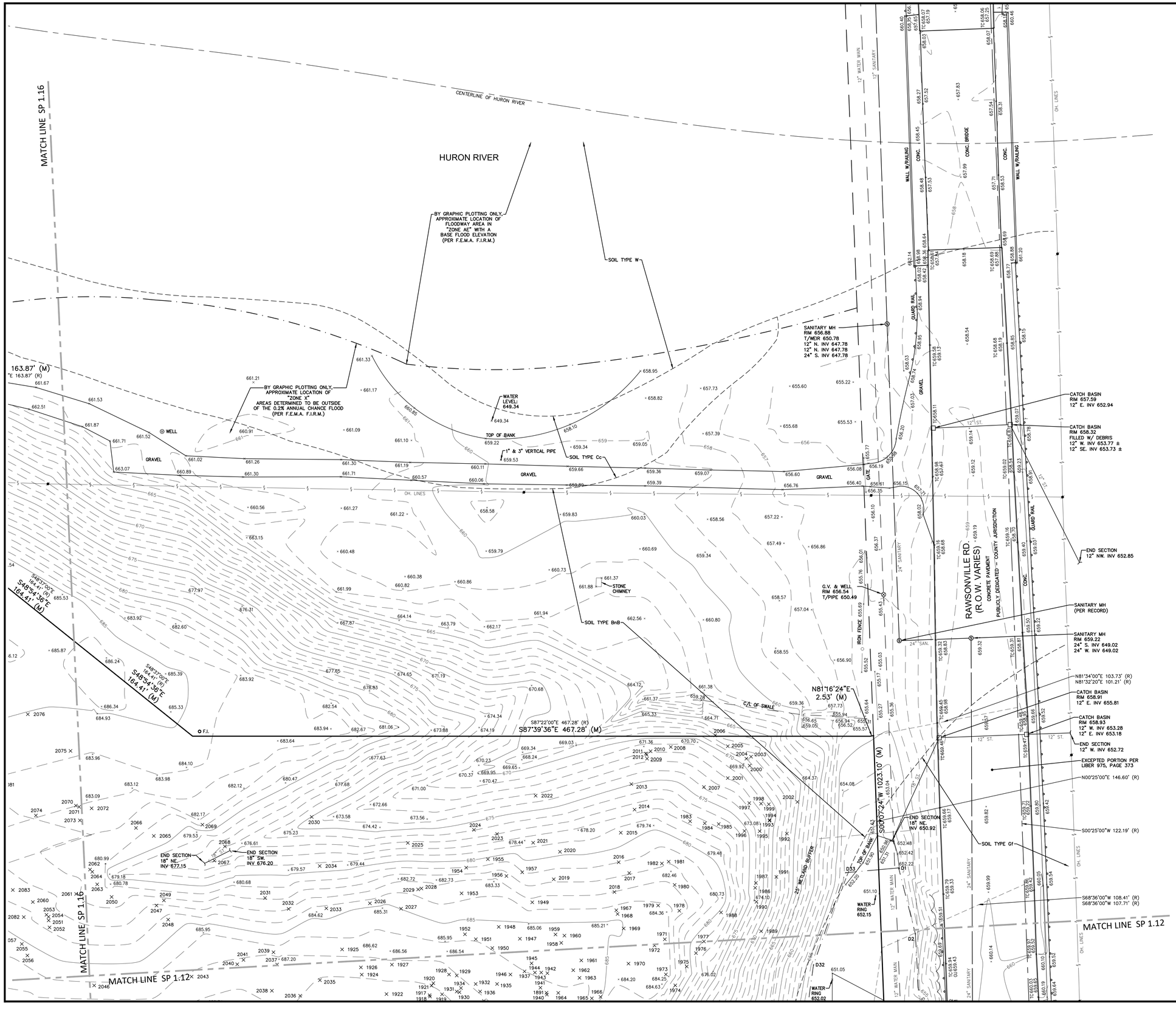

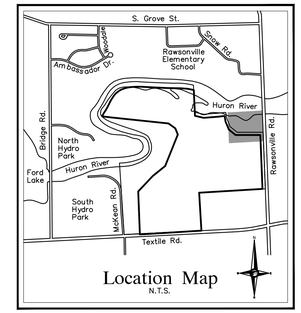

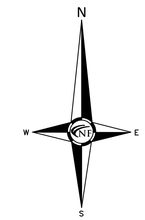

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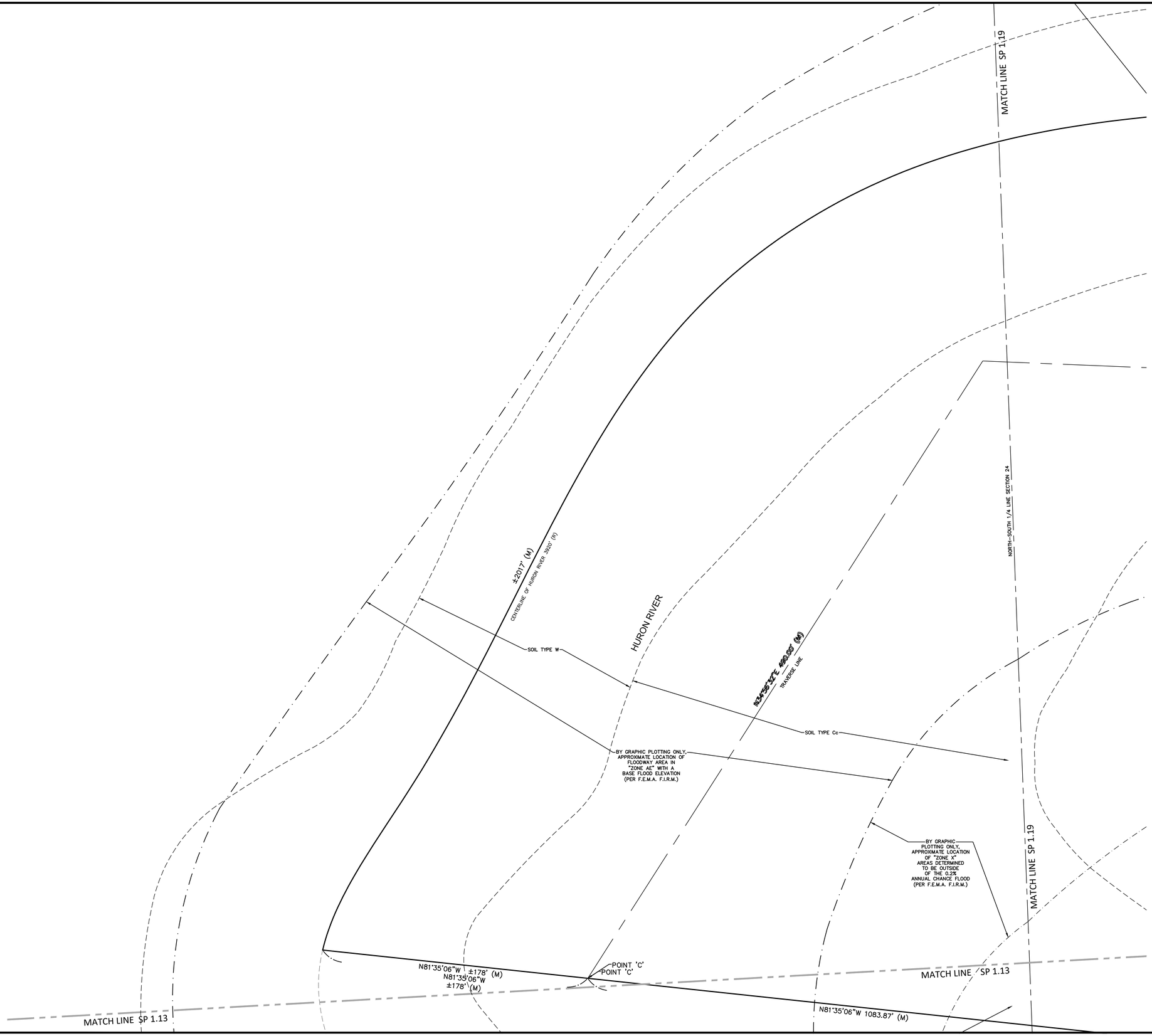

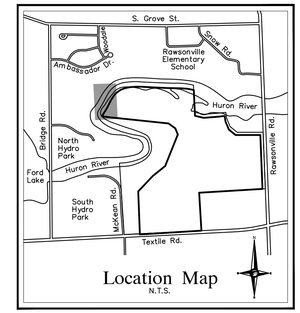

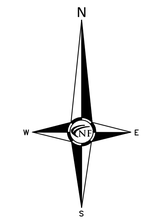

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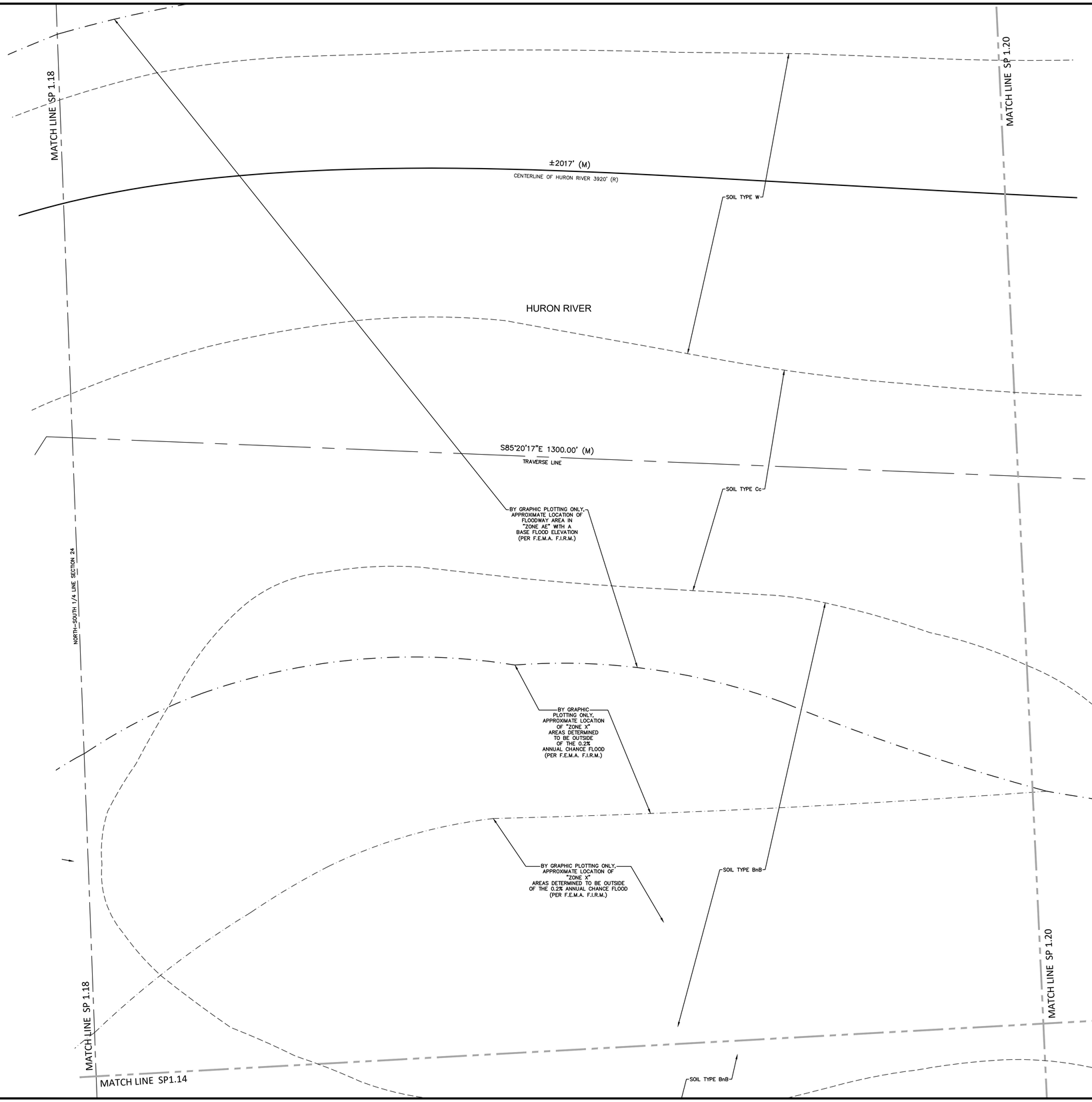

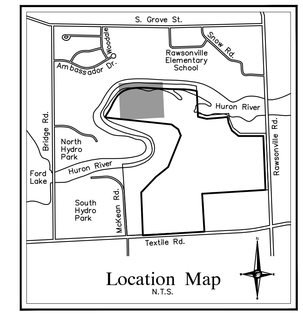

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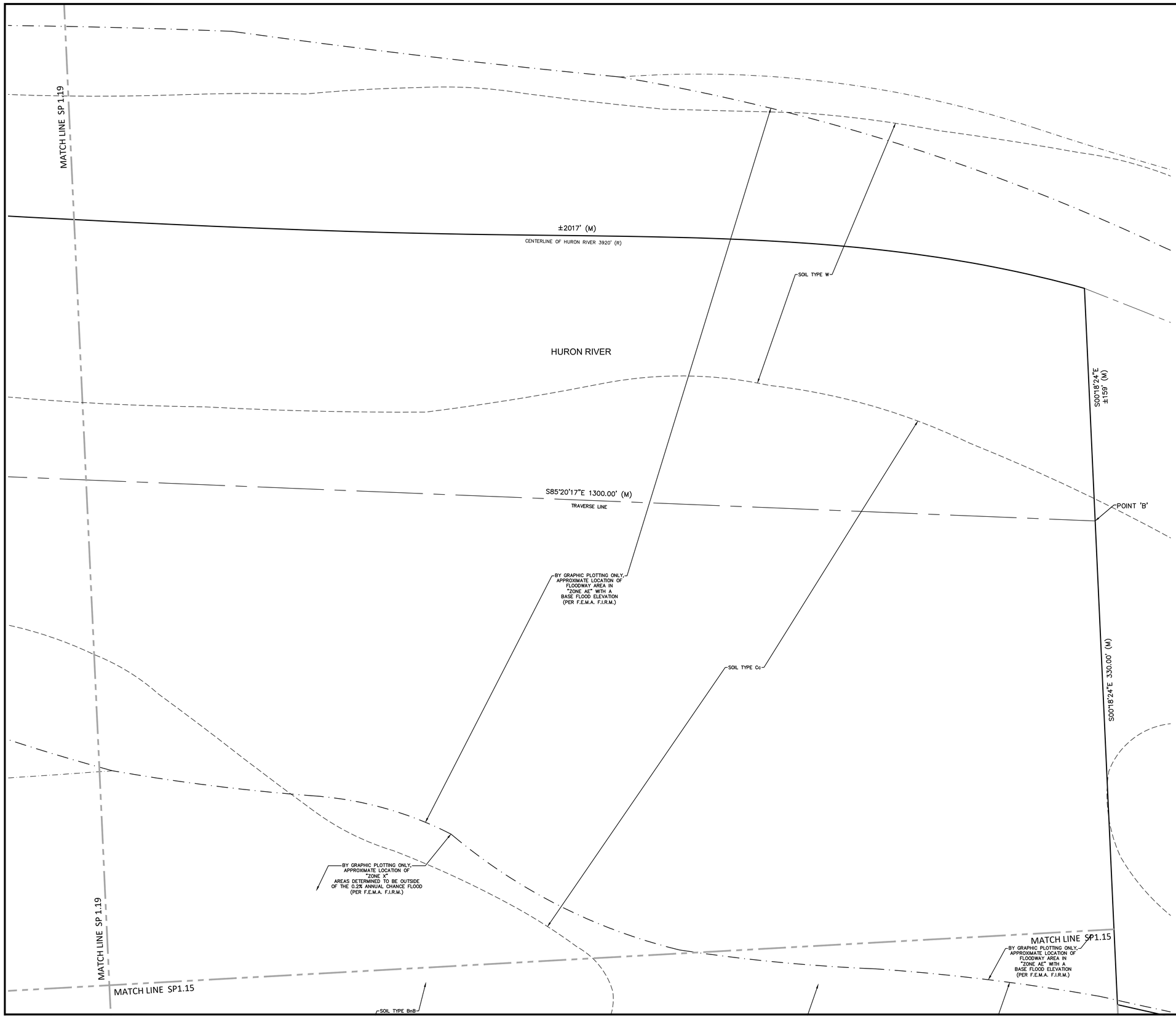
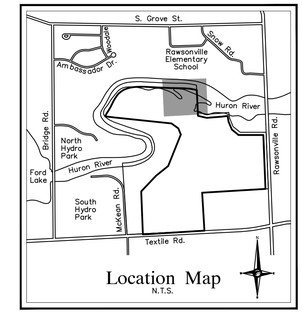
SHEET NO. **SP 1.19**





NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

N
W E
S

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Alta-Topographic Survey

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
M. Carnaghi
DESIGNED BY:

APPROVED BY:
K. Navaroli
DATE:
September 24, 2021
SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO. **M278-01**
SHEET NO. **SP 1.20**

TITLE REPORT NOTES

REFERENCE FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NUMBER: NCS–1069305–ATL, DATED: JUNE 11, 2021.

SCHEDULE B, PART II – EXCEPTIONS:

2. ANY FACTS, RIGHTS, INTERESTS, OR CLAIMS THAT ARE NOT SHOWN BY THE PUBLIC RECORDS BUT THAT COULD BE ASCERTAINED BY MAKING INQUIRY OF PERSONS IN POSSESSION OF THE LAND.

3. EASEMENTS, ENCUMBRANCES, OR CLAIMS THEREOF, NOT SHOWN BY THE PUBLIC RECORDS.

9. RIGHTS OF THE UNITED STATES, STATE OF MICHIGAN AND THE PUBLIC FOR COMMERCE, NAVIGATION, RECREATION AND FISHERY, IN ANY PORTION OF THE LAND BORDERING ON OR COMPRISING THE BED OF THE HURON RIVER.

10. THE NATURE, EXTENT OR LACK OF RIPARIAN RIGHTS, OR THE RIPARIAN RIGHTS OF RIPARIAN OWNERS AND THE PUBLIC, IN AND TO THE USE OF WATERS OF THE HURON RIVER.

11. RIGHTS, IF ANY, OF THE UNITED STATES OF AMERICA, THE STATE OF MICHIGAN AND THE MUNICIPALITY IN AND TO SO MUCH, IF ANY, OF THE LAND AS MAY HAVE BEEN FORMED BY MEANS AND NATURAL ACCRETIONS AND TO SO MUCH, IF ANY AS MAY BE COVERED BY THE WATERS OF THE HURON RIVER.

12. RIGHTS OF THE INTERESTED PARTIES TO THE FREE AND UNOBSTRUCTED FLOW OF ANY STREAM OR CREEK WHICH MAY FLOW ACROSS THE PREMISES.

13. INTEREST OF OTHERS IN OIL, GAS AND MINERAL RIGHTS, IF ANY, WHETHER OR NOT RECORDED IN THE PUBLIC RECORDS.

14. INTEREST, IF ANY, OF THE UNITED STATES, STATE OF MICHIGAN, OR ANY POLITICAL SUBDIVISION THEREOF, IN THE OIL, GAS AND MINERALS IN AND UNDER AND THAT MAY BE PRODUCED FROM THE CAPTIONED LAND.

15. ANY RIGHTS, TITLE, INTEREST OR CLAIM THEREOF TO THAT PORTION OF THE LAND TAKEN, USED OR GRANTED FOR STREETS, ROADS OR HIGHWAYS.

16. EXISTING UNRECORDED LEASES, IF ANY, AND RIGHTS OF ALL PARTIES CLAIMING THEREUNDER.

ALTA SURVEY NOTES

THE SUBJECT PROPERTY HAS ACCESS TO PUBLIC UTILITIES FROM THE PUBLIC STREETS ADJACENT TO THE SUBJECT PROPERTY.

THE SUBJECT PROPERTY ABUTS, WITHOUT GAPS GORES OR STRIPS, AND HAS VEHICULAR AND PEDESTRIAN INGRESS TO AND EGRESS FROM RAWSONVILLE ROAD AND TEXTILE ROAD, WHICH IS/ARE COMPLETED, DEDICATED AND ACCEPTED PUBLIC RIGHT(S) OF WAY.

EXCEPT AS SHOWN AND NOTED ON THIS SURVEY, BASED ON A CAREFUL PHYSICAL INSPECTION OF THE SUBJECT PROPERTY, A ZONING REPORT OR LETTER PROVIDED BY THE CLIENT, AND MATTERS OF RECORD OR PROVIDED BY THE TITLE COMPANY OR CLIENT, THERE ARE NO VISIBLE:
(I) HEIGHT OR BULK RESTRICTIONS, SETBACK LINES, PARKING REQUIREMENTS, PARTY WALLS, ENCROACHMENTS OR OVERHANGS OF ANY IMPROVEMENTS UPON ANY EASEMENT, RIGHT–OF–WAY OR ADJACENT LAND OR ENCROACHMENT OF THE IMPROVEMENTS LOCATED ON ADJACENT LAND ONTO THE SUBJECT PROPERTY, OTHER THAN AS NOTED ON THE ENCROACHMENT TABLE; OR
(II) EASEMENTS, RIGHTS–OF–WAY, PARTY WALLS, OR BUILDING STRUCTURES OR OTHER IMPROVEMENTS, BILLBOARDS, CONFLICTS, OFFICIALLY DESIGNATED 100 YEAR FLOOD PLAINS OR FLOOD PRONE AREAS, SPRINGS, STREAMS, CREEKS, RIVERS, PONDS, LAKES, CEMETERIES OR BURIAL GROUNDS.

EXCEPT AS SHOWN ON THE SURVEY, THE SUBJECT PROPERTY DOES NOT SERVE ANY ADJOINING PROPERTY FOR UTILITIES, DRAINAGE, STRUCTURAL SUPPORT OR INGRESS OR EGRESS.

THE RECORD DESCRIPTION OF THE SUBJECT PROPERTY FORMS A MATHEMATICALLY CLOSED FIGURE.

THERE IS NO OBSERVED EVIDENCE OF THE SITE BEING USED AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.

THE SURVEY REFLECTS THE LOCATION OF WETLANDS ON THE SUBJECT PROPERTY BASED ON THE WETLAND DELINEATION PROVIDED BY THE CLIENT.

THERE IS NO VISIBLE EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.

THERE IS NO PROPOSED CHANGES IN STREET RIGHT OF WAY LINES AND THERE IS NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIR, EXCEPT AS SHOWN.

LOCATION OF UTILITIES EXISTING ON OR SERVING THE PROPERTY AS DETERMINED BY: OBSERVED EVIDENCE OR EVIDENCE FROM PLANS REQUESTED BY THE SURVEYOR AND OBTAINED FROM UTILITY COMPANIES.

MISS DIG / UTILITY DISCLAIMER NOTE

A MISS DIG TICKET NUMBER B10631421, PURSUANT TO MICHIGAN PUBLIC ACT 174 WAS ENTERED FOR THE SURVEYED PROPERTY. DUE TO THE EXTENDED REPORTING PERIOD FOR UNDERGROUND FACILITY OWNERS TO PROVIDE THEIR RECORDS, THE SURVEY MAY NOT REFLECT ALL THE UTILITIES AT THE TIME THE SURVEY WAS ISSUED ON SEPTEMBER 8, 2021. THE SURVEY ONLY REFLECTS THOSE UTILITIES WHICH COULD BE OBSERVED BY THE SURVEYOR IN THE FIELD OR AS DEPICTED BY THE UTILITY COMPANY RECORDS FURNISH PRIOR TO THE DATE THIS SURVEY WAS ISSUED. THE CLIENT AND/OR THEIR AUTHORIZED AGENT SHALL VERIFY WITH THE FACILITY OWNERS AND/OR THEIR AUTHORIZED AGENTS, THE COMPLETENESS AND EXACTNESS OF THE UTILITIES LOCATION.

TOPOGRAPHIC SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

LEGAL DESCRIPTION - PER TITLE COMMITMENT

LAND IN YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, DESCRIBED AS FOLLOWS:

PARCEL 1A:

ALL THAT PART OF THE EAST 1/2 OF THE SOUTHEAST FRACTIONAL 1/4 OF SECTION 24, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 24, AND RUNNING THENCE SOUTH 88° 53' 00" WEST ALONG THE SOUTH LINE OF SECTION 24, 1308.00 FEET; THENCE DUE NORTH, 2187.35 FEET; THENCE SOUTH 74° 37' 00" EAST, 170.35 FEET; THENCE NORTH 88° 01' 00" EAST, 284.05 FEET; THENCE NORTH 86° 40' 00" EAST, 115.07 FEET; THENCE SOUTH 5° 36' 00" EAST, 106.77 FEET; THENCE SOUTH 19° 36' 00" EAST, 163.87 FEET; THENCE SOUTH 48° 37' 00" EAST, 164.41 FEET; THENCE SOUTH 87° 22' 00" EAST, 467.28 FEET; THENCE NORTH 81° 34' 00" EAST, 103.73 FEET TO A POINT ON THE EAST LINE OF SECTION 24; THENCE ALONG THE EAST LINE OF SAID SECTION 24, SOUTH 00° 25' 00"WEST, 122.19 FEET; THENCE FOLLOWING A CERTAIN CONTOUR, HAVING AN ELEVATION OF 652.50 FEET ABOVE SEA LEVEL, U.S.G.S. DATUM, SOUTH 68° 36' 00" WEST, 108.41 FEET; THENCE SOUTH 10° 46' 00" WEST, 76.70 FEET; THENCE SOUTH 31° 00' 00" WEST, 206.15 FEET; THENCE SOUTH 2° 15' 00" WEST, 293. 80 FEET; THENCE SOUTH 12° 49' 00" EAST 308.25 FEET; THENCE NORTH 71° 34' 00" EAST 166.45 FEET; THENCE SOUTH 00° 25' 00" WEST, 801.59 FEET TO THE POINT OF BEGINNING. EXCEPTING FROM THE ABOVE DESCRIBED PARCEL, THE SOUTH 10 ACRES THEREOF. CONVEYING 44.966 ACRES, MORE OR LESS.

ALSO,

PARCEL 1B:

LAND IN SAID SECTION 24, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTH 1/4 CORNER OF SAID SECTION 24, AND RUNNING THENCE NORTH 00° 52' 30" WEST, ON THE NORTH AND SOUTH 1/4 LINE, 1331.15 FEET, MORE OR LESS, TO THE CENTER LINE OF HURON RIVER; THENCE DOWN STREAM ALONG THE CENTER LINE OF SAID RIVER, AS IT WINDS AND TURNS ABOUT 3920 FEET TO THE EAST LINE OF THE WEST 1/2 OF THE SOUTHEAST 1/4 OF SAID SECTION 24; THENCE SOUTH ON THE SAID EAST LINE OF THE WEST 1/2 OF THE SOUTHEAST 1/4 TO THE SOUTH LINE OF SAID SECTION 24; THENCE WEST ALONG THE SOUTH LINE OF SAID SECTION TO THE POINT OF COMMENCEMENT. EXCEPTING FROM THE ABOVE DESCRIBED PARCEL, THE SOUTH 10 ACRES, BEING 80 RODS EAST AND WEST AND 20 RODS NORTH AND SOUTH. CONVEYING 75.624 ACRES, MORE OR LESS.

ALSO,

PARCEL 1C:

THE EAST ONE (1) ACRE OF THE SOUTH TEN (10) ACRES OF THE WEST FRACTIONAL HALF OF THE SOUTHEAST FRACTIONAL QUARTER OF SECTION
24, TOWNSHIP 3 SOUTH, RANGE 7 EAST, YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN.

ALSO,

PARCEL 1D:

THE SOUTH TEN (10) ACRES OF THE WEST FRACTIONAL 1/2 OF THE SOUTHEAST 1/4 OF SECTION 24, TOWN 3 SOUTH, RANGE 7 EAST, YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; EXCEPT THE EAST ONE (1) ACRES OF THE SOUTH TEN (10) ACRES OF THE WEST FRACTIONAL 1/2 OF THE SOUTHEAST FRACTIONAL ¼ OF SECTION 24, TOWN 3 SOUTH, RANGE 7 EAST, YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN.

EXCEPTING FROM THE ABOVE PARCELS THE LAND CONVEYED BY WABASH RAILROAD COMPANY TO BOARD OF COUNTY ROAD COMMISSIONERS FOR THE COUNTY OF WASHTENAW, MICHIGAN BY QUIT CLAIM DEED RECORDED JANUARY 3, 1962 IN LIBER 975, PAGE 373, DESCRIBED AS FOLLOWS:

THAT PART OF THE SOUTHEAST FRACTIONAL 1/4 OF SECTION 24, T3S, R7E, YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, DESCRIBED AS BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION AND PROCEEDING THENCE NORTH 00° 25' 00" EAST, ALONG THE EAST LINE OF SAID SECTION, 801.59 FEET; THENCE SOUTH 71° 34' 00" WEST, 105.67 FEET; THENCE SOUTH 00° 25' 00" WEST, PARALLEL TO AND 100 FEET WEST OF SAID EAST LINE, 184.29 FEET; THENCE SOUTH 3° 44' EAST, 553.20 FEET; THENCE SOUTH 00° 25' 00" WEST, 33.01 FEET TO THE SOUTH LINE OF SAID SECTION; THENCE NORTH 88° 53' 00" EAST, 60.02 FEET TO THE POINT OF BEGINNING.

ALSO: THAT PART OF THE AFORESAID SOUTHEAST FRACTIONAL 1/4 OF SECTION 24 DESCRIBED AS BEGINNING AT A POINT LOCATED BY THE FOLLOWING COURSES AND DISTANCES, VIS: COMMENCING AT THE SOUTHEAST CORNER OF SECTION 24, THENCE NORTH 00° 25' 00" EAST ALONG THE EAST LINE OF SAID SECTION, 801.59 FEET; THENCE FOLLOWING A CERTAIN CONTOUR, HAVING AN ELEVATION OF 652.50 FEET ABOVE SEA LEVEL, U.S.G.S. DATUM, SOUTH 71° 34' 00" WEST, 105.67 FEET; THENCE NORTH 00° 25' 00" EAST, PARALLEL TO AND 100 FEET WEST OF SAID EAST SECTION LINE, 827.13 FEET TO THE AFORESAID 652.50 FOOT CONTOUR AND THE POINT OF BEGINNING; THENCE CONTINUING NORTH 00° 25' 00" EAST, 146.6 FEET TO AN OLD FENCE; THENCE EASTERLY ALONG SAID FENCE, 100.1 FEET TO THE EAST LINE OF SECTION 24; THENCE SOUTH 00° 25' 00" WEST ALONG SAID EAST LINE, 122.19 FEET; THENCE SOUTH 68° 36' 00"WEST, 107.71 FEET TO THE POINT OF BEGINNING.

ALSO EXCEPTING FROM THE ABOVE PARCELS THE LAND CONVEYED BY WABASH RAILROAD COMPANY TO ST. REGIS PAPER COMPANY BY GENERAL WARRANTY DEED RECORDED MARCH 28, 1966 IN LIBER 1153, PAGE 557, DESCRIBED AS FOLLOWS:

A PARCEL OF LAND IN SECTION 24, T3S, R7E, YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS, TO–WIT:

COMMENCING AT THE SE CORNER OF SECTION 24, T3S, R7E, YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN; THENCE WESTERLY 60.02 FEET ALONG THE SOUTH LINE OF SAID SECTION 24 AND THE CENTER LINE OF TEXTILE ROAD FOR PLACE OF BEGINNING; THENCE CONTINUING WESTERLY 1224.86 FEET ALONG THE SOUTH LINE OF SECTION 24 AND THE CENTER LINE OF TEXTILE ROAD; THENCE NORTHERLY DEFLECTING 90° 00' TO THE RIGHT 720.00 FEET PERPENDICULAR TO THE SOUTH LINE OF SAID SECTION 24; THENCE EASTERLY DEFLECTING 90° 00' TO THE RIGHT 1200.77 FEET PARALLEL WITH THE SOUTH LINE OF SECTION 24; THENCE SOUTHERLY DEFLECTING 91° 16' TO THE RIGHT 134.81 FEET PARALLEL WITH AND 100.00 FEET OF THE EAST LINE OF SAID SECTION 24 AND ALONG THE WESTERLY LINE OF RAWSONVILLE ROAD AS SET FORTH IN LIBER 975 OF DEEDS ON PAGES 373 AND 374 OF THE WASHTENAW COUNTY RECORDS; THENCE SOUTHERLY DEFLECTING 4° 09' TO THE LEFT 552.92 FEET ALONG SAID WESTERLY LINE OF RAWSONVILLE ROAD; THENCE SOUTHERLY DEFLECTING 4° 09' TO THE RIGHT 33.01 FEET PARALLEL WITH AND 60.0 FEET WEST OF THE EAST LINE OF SAID SECTION 24 AND ALONG THE WESTERLY LINE OF RAWSONVILLE ROAD TO THE PLACE OF BEGINNING, BEING A PART OF THE SE 1/4 OF SAID SECTION 24, T3S, R7E, CONTAINING 20.00 ACRES OF LAND, MORE OR LESS.

PARCEL 2:

A PARCEL OF LAND IN YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS, TO–WIT:

THAT PART OF THE SOUTHEAST QUARTER OF SECTION 24, TOWN 3 SOUTH, RANGE 7 EAST, BOUNDED ON THE NORTH BY THE LAND LYING SOUTH OF THE HURON RIVER, FORMERLY OWNED BY ISAAC N. BUMPUS, ON THE EAST BY THE COUNTY LINE BETWEEN WASHTENAW AND WAYNE COUNTIES, ON THE SOUTH BY A CONTOUR AT THE SOUTH END OF THE MARSH ON THE PREMISES HERE CONVEYED AT ELEVATION 653 UNITED STATES GEOLOGICAL SURVEY DATUM, THE LINE OF SAID CONTOUR BEING EXTENDED EASTERLY TO INTERSECT SAID COUNTY LINE, AND ON THE WEST BY A CONTOUR ALONG THE WEST SIDE OF SAID MARSH AT THE AFORESAID ELEVATION, WHICH IS AN ELEVATION ONE HALF FOOT HIGHER THAN THE TOP OF THE EAST CONCRETE ABUTMENT OF THE CULVERT CARRYING ACROSS THE HIGHWAY DITCH WHICH DRAINS THE MARSH AFORESAID; THE PARCEL HEREIN CONVEYED CONTAINING FOUR AND TWO THIRDS ACRES, MORE OR LESS.

EXCEPTING THE EASTERLY 100 FEET, AS MEASURED AT RIGHT ANGLES TO THE LINE BETWEEN WASHTENAW AND WAYNE COUNTIES, OF THE ABOVE DESCRIBED PARCEL WHICH WAS CONVEYED BY THE DETROIT EDISON COMPANY TO THE BOARD OF WASHTENAW COUNTY ROAD COMMISSIONERS, FOR THE WIDENING OF RAWSONVILLE ROAD, BY DEED DATED SEPTEMBER 22, 1961.

LEGAL DESCRIPTION - BASED ON A FIELD SURVEY BEING A PORTION OF LAND DESCRIBED WITHIN THE TITLE COMMITMENT

PART OF THE SOUTH 1/2 OF FRACTIONAL SECTION 24, TOWN 3 SOUTH, RANGE 7 EAST, YPSILANTI TOWNSHIP, WASHTENAW COUNTY, MICHIGAN BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT DISTANT NORTH 88 DEGREES 53 MINUTES 00 SECONDS EAST, 156.04 FEET FROM THE SOUTH 1/4 CORNER OF SAID FRACTIONAL SECTION 24; THENCE NORTH 00 DEGREES 12 MINUTES 07 SECONDS EAST, 815.30 FEET; THENCE NORTH 45 DEGREES 39 MINUTES 26 SECONDS EAST, 404.46 FEET; THENCE NORTH 53 DEGREES 39 MINUTES 38 SECONDS EAST, 297.36 FEET; THENCE NORTH 24 DEGREES 08 MINUTES 17 SECONDS EAST, 642.53 FEET; THENCE NORTH 19 DEGREES 08 MINUTES 01 SECONDS WEST, 127.82 FEET; THENCE NORTH 52 DEGREES 16 MINUTES 16 SECONDS WEST, 156.98 FEET; THENCE NORTH 81 DEGREES 35 MINUTES 06 SECONDS WEST, 1083.87 FEET TO POINT 'C'; THENCE CONTINUING NORTH 81 DEGREES 35 MINUTES 06 SECONDS WEST, 178 FEET MORE OR LESS TO THE CENTERLINE OF HURON RIVER; THENCE DOWN STREAM ALONG THE CENTERLINE OF SAID HURON RIVER, AS IT WINDS AND TURNS ABOUT 2017 FEET TO A POINT ON THE NORTH–SOUTH 1/8 LINE OF THE SOUTHEAST 1/4 OF SAID FRACTIONAL SECTION 24; THENCE SOUTH 00 DEGREES 18 MINUTES 24 SECONDS EAST ALONG SAID NORTH–SOUTH 1/8 LINE 159 FEET MORE OR LESS TO POINT 'B' BEING NORTH 34 DEGREES 56 MINUTES 32 SECONDS EAST, 490.00 FEET AND SOUTH 85 DEGREES 20 MINUTES 17 SECONDS EAST, 1300.00 FEET FROM SAID POINT 'C'; THENCE CONTINUING ALONG SAID NORTH–SOUTH 1/ LINE SOUTH 00 DEGREES 18 MINUTES 24 SECONDS EAST, 330.00; THENCE SOUTH 74 DEGREES 54 MINUTES 36 SECONDS EAST, 170.35 FEET; THENCE NORTH 87 DEGREES 43 MINUTES 24 SECONDS EAST, 284.05 FEET; THENCE NORTH 86 DEGREES 22 MINUTES 24 SECONDS EAST, 115.07 FEET; THENCE SOUTH 05 DEGREES 53 MINUTES 36 SECONDS EAST, 106.77 FEET; THENCE SOUTH 19 DEGREES 53 MINUTES 36 SECONDS EAST, 163.87 FEET; THENCE SOUTH 48 DEGREES 54 MINUTES 36 SECONDS EAST, 164.41 FEET; THENCE SOUTH 87 DEGREES 39 MINUTES 36 SECONDS EAST, 467.28 FEET; THENCE NORTH 81 DEGREES 16 MINUTES 24 SECONDS EAST, 2.53 FEET TO A POINT ON THE WEST LINE OF RAWSONVILLE ROAD (100 FEET WIDE 1/2 WIDTH); THENCE SOUTH 00 DEGREES 07 MINUTES 24 SECONDS WEST ALONG SAID WEST LINE OF RAWSONVILLE ROAD, 1023.10 FEET; THENCE SOUTH 88 DEGREES 53 MINUTES 00 SECONDS WEST, 1200.43 FEET; THENCE SOUTH 01 DEGREES 07 MINUTES 00 SECONDS EAST, 720.00 FEET TO A POINT ON THE SOUTH LINE OF SAID FRACTIONAL SECTION 24; THENCE SOUTH 88 DEGREES 53 MINUTES 00 SECONDS WEST ALONG SAID SOUTH LINE OF FRACTION SECTION 24, 1169.28 FEET TO THE POINT OF BEGINNING.

CONTAINING:
4,213,091 SQUARE FEET OR 96.72 ACRES OF LAND (GROSS)
4,142,976 SQUARE FEET OR 95.11 ACRES OF LAND (NET)

SURVEY DATA

SITE AREA:
GROSS: 4,213,091 SQUARE FEET OR 96.72 ACRES ±
NET (60' R.O.W.): 4,142,976 SQUARE FEET OR 95.11 ACRES ±

ZONED:
I–1, LIGHT INDUSTRIAL DISTRICT

PARKING SPACES:
NONE (VACANT)

A SURVEYOR CANNOT MAKE A CERTIFICATION ON THE BASIS OF AN INTERPRETATION OR OPINION OF ANOTHER PARTY. A ZONING ENDORSEMENT LETTER SHOULD BE OBTAINED FROM THE YPSILANTI TOWNSHIP TO INSURE CONFORMITY AS WELL AS MAKE A FINAL DETERMINATION OF THE REQUIRED BUILDING SETBACK REQUIREMENTS.

BASIS OF BEARING NOTE

ALL BEARINGS ARE IN RELATION TO THE PREVIOUSLY ESTABLISHED SOUTH LINE OF SECTION 24 PER DEED (PARCEL 1) AS RECORDED IN LIBER 504, PAGE 328, WASHTENAW COUNTY RECORDS. (S.88°53'00"W.)

FLOOD HAZARD NOTE

BY GRAPHIC PLOTTING ONLY, A PORTION OF THE PROPERTY DESCRIBED ON THIS SURVEY LIES WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY; THE PROPERTY LIES WITHIN ZONE(S) 'AE' AND 'X' OF THE FLOOD INSURANCE RATE MAP IDENTIFIED AS MAP NO. 26161C0435E BEARING AN EFFECTIVE DATE OF APRIL 3, 2012.

TREE LIST

SEE SHEETS SP 1.22 THROUGH SP 1.29 FOR TREE LIST.

DTE DISCLAIMER NOTE

PLEASE NOTE THAT DTE HAS NEW REGULATIONS THAT MAY IMPACT DEVELOPMENT OUTSIDE THEIR EASEMENT OR THE PUBLIC RIGHT OF WAY. CLIENT SHALL CONTACT DTE TO DETERMINE THE "NEW STRUCTURES AND POWER LINE" REQUIREMENTS AS THEY MAY APPLY TO ANY FUTURE BUILDING OR RENOVATION OF A STRUCTURE. DTE ENERGY CAN BE CONTACTED AT 800–477–4747

CERTIFICATE OF SURVEY

CERTIFIED TO:

–AMAZON.COM SERVICES LLC
–FIRST AMERICAN TITLE INSURANCE COMPANY
–NORFOLK AND WESTERN RAILWAY, A VIRGINIA CORPORATION, F/K/A WABASH RAILROAD COMPANY (AS TO PARCEL 1)
–VIRGINIA HOLDING CORPORATION, A VIRGINIA CORPORATION (AS TO PARCEL 2)

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDE ITEMS 1, 2, 3, 4, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 11(a), 13, 14, 16, 17, 18 AND 19 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON SEPTEMBER 4, 2021.

9–24–2021

KEVIN NAVAROLI, P.S. NO. 4001053503 DATE

STATE OF MICHIGAN
KEVIN CHRISTOPHER NAVAROLI
License No. 4001053503
LICENSED PROFESSIONAL SURVEYOR

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
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SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Survey Notes

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
M. Carnaghi

DESIGNED BY:

APPROVED BY:
K. Navaroli

DATE:
September 24, 2021

SCALE: N.T.S.

NFE JOB NO. **M278-01**

SHEET NO. **SP 1.21**

Tree Tag#	Species Code	Common Name	Botanical Name	# DBHs	DBH1	DBH2	DBH3	DBH4	DBH5	DBH6	Condition	PBHT	Notes	Max PDOP	GPS Date	GNSS Height	Vert Prec	Horz Prec	Northing	Easting	To be Removed?
1	HACB	Hackberry	Celtis occidentalis	2	12.6	11.1	0	0	0	0	GOOD			2.9	7/29/2021	602.092	2	2	257417.829	13343878.98	
2	SIBE	Siberian elm	Ulmus pumila	1	8	0	0	0	0	0	GOOD			3	7/29/2021	600.182	1.7	1.3	257433.083	13343882.11	
3	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3.5	7/29/2021	597.851	2	1.8	257435.914	13343896.26	
4	BLKL	Black Locust	Robinia pseudoacacia	1	31.1	0	0	0	0	0	FAIR		Structure	2.9	7/29/2021	599.668	1.7	1.5	257481.617	13343875.93	
5	HACB	Hackberry	Celtis occidentalis	1	13.1	0	0	0	0	0	GOOD			3	7/29/2021	599.742	1.8	1.4	257485.405	13343880.57	
6	HACB	Hackberry	Celtis occidentalis	2	15.5	14.6	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3.6	7/29/2021	611.662	2.3	1.8	257489.518	13343877.89	
7	HACB	Hackberry	Celtis occidentalis	1	10.1	0	0	0	0	0	GOOD			3.6	7/29/2021	596.482	1.9	1.4	257489.699	13343877.76	
8	HACB	Hackberry	Celtis occidentalis	1	8.1	0	0	0	0	0	GOOD			2.7	7/29/2021	601.409	2.3	2.3	257498.504	13343871.98	
9	BLKL	Black Locust	Robinia pseudoacacia	1	22.3	0	0	0	0	0	FAIR		STRUCTURE, INTERNAL DECAY	2.9	7/29/2021	601.951	1.7	2.2	257502.307	13343876.7	
10	BLKL	Black Locust	Robinia pseudoacacia	1	14.1	0	0	0	0	0	FAIR		Structure	2.8	7/29/2021	604.735	1.6	1.4	257502.922	13343883.18	
11	BLKL	Black Locust	Robinia pseudoacacia	1	16.2	0	0	0	0	0	GOOD			16.3	7/29/2021	603.136	2.5	2.5	257508.137	13343878.68	
12	HACB	Hackberry	Celtis occidentalis	1	9.8	0	0	0	0	0	GOOD			2.9	7/29/2021	600.707	1.6	1.5	257514.316	13343881.03	
13	BLKL	Black Locust	Robinia pseudoacacia	1	14.9	0	0	0	0	0	GOOD			2.7	7/29/2021	601.261	1.8	1.8	257529.85	13343873.9	
14	HACB	Hackberry	Celtis occidentalis	1	13.7	0	0	0	0	0	GOOD			2.8	7/29/2021	605.467	1.8	1.8	257545.363	13343869.54	
15	HACB	Hackberry	Celtis occidentalis	2	8.4	7.2	0	0	0	0	GOOD			2.9	7/29/2021	611.362	2.3	2.1	257543.431	13343877.29	
16	HACB	Hackberry	Celtis occidentalis	1	8.1	0	0	0	0	0	GOOD			4.8	7/29/2021	599.836	1.8	1.9	257542.14	13343876.35	
17	BLKL	Black Locust	Robinia pseudoacacia	1	33.8	0	0	0	0	0	GOOD			2.8	7/29/2021	599.566	1.7	1.7	257553.555	13343875.82	
18	HACB	Hackberry	Celtis occidentalis	1	11.9	0	0	0	0	0	GOOD			2.6	7/29/2021	603.841	1.9	1.6	257565.641	13343869.68	
19	HACB	Hackberry	Celtis occidentalis	1	11.3	0	0	0	0	0	GOOD			3	7/29/2021	596.805	1.9	2	257581.622	13343872.37	
20	HACB	Hackberry	Celtis occidentalis	1	12.8	0	0	0	0	0	GOOD			2.8	7/29/2021	597.613	1.8	1.9	257622.775	13343866.85	
21	HACB	Hackberry	Celtis occidentalis	1	33.3	0	0	0	0	0	POOR		Structure	3	7/29/2021	607.871	1.7	1.8	257616.697	13343881.1	
22	BLKL	Black Locust	Robinia pseudoacacia	2	21.8	17.8	0	0	0	0	GOOD			2.8	7/29/2021	600.778	1.6	1.4	257663.175	13343865.21	
23	BLKL	Black Locust	Robinia pseudoacacia	2	18.9	8	0	0	0	0	GOOD			2.8	7/29/2021	602.115	1.7	1.7	257693.772	13343875.06	
24	BLKL	Black Locust	Robinia pseudoacacia	1	16.2	0	0	0	0	0	GOOD			6.5	7/29/2021	602.676	1.8	1.6	257737.221	13343871.93	
25	BLKL	Black Locust	Robinia pseudoacacia	1	13.2	0	0	0	0	0	FAIR		Structure, trunk	3	7/29/2021	599.4	2.3	1.7	257755.002	13343862.11	
26	BLKL	Black Locust	Robinia pseudoacacia	1	16.1	0	0	0	0	0	GOOD			2.6	7/29/2021	604.965	1.8	1.5	257822.758	13343856.73	
27	BLKL	Black Locust	Robinia pseudoacacia	1	8.4	0	0	0	0	0	FAIR			2.5	7/29/2021	605.051	1.9	1.7	257816.012	13343849.97	
28	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	GOOD			2.1	7/29/2021	605.691	1.6	1.1	257836.068	13343853.39	
29	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			2.9	7/29/2021	598.239	3.1	2.9	257847.609	13343845.04	
30	BLKL	Black Locust	Robinia pseudoacacia	3	17.6	12.6	11.3	0	0	0	GOOD			3	7/29/2021	595.099	1.8	1.5	257847.521	13343849.62	
31	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			2	7/29/2021	604.632	1.7	1.2	257847.757	13343868.12	
32	BLKL	Black Locust	Robinia pseudoacacia	1	8.3	0	0	0	0	0	FAIR		Structure, Posion Ivy	3	7/29/2021	602.24	1.7	1.6	257861.468	13343858.82	
33	COT	Eastern Cottonwood	Populus deltoides	3	19.2	14.8	13.6	0	0	0	FAIR		Structure	4.2	7/29/2021	601.798	1.7	1.6	257869.716	13343857.95	
34	BLKL	Black Locust	Robinia pseudoacacia	1	8.6	0	0	0	0	0	GOOD			3	7/29/2021	602.931	2.1	2	257930.256	13343858.28	
35	BLKL	Black Locust	Robinia pseudoacacia	2	10.6	9.4	0	0	0	0	FAIR		Structure, TRUNK	3	7/29/2021	609.472	2.4	1.6	257948.592	13343846.69	
36	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	GOOD			3.3	7/29/2021	612.835	2.6	1.9	257948.857	13343842.97	
37	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3	7/29/2021	600.47	2	1.8	257950.443	13343846.58	
38	BLKL	Black Locust	Robinia pseudoacacia	1	14.6	0	0	0	0	0	GOOD			3	7/29/2021	606.851	2.8	2.4	257949.15	13343853.14	
39	BLKL	Black Locust	Robinia pseudoacacia	2	9.2	8.6	0	0	0	0	GOOD		Structure, Trunk lean	4.7	7/30/2021	608.175	2.2	2	257963.516	13343853.5	
40	BLKL	Black Locust	Robinia pseudoacacia	1	19	12.5	9	0	0	0	GOOD			3.8	7/30/2021	609.884	2.1	1.9	257965.108	13343847.52	
41	BLKL	Black Locust	Robinia pseudoacacia	1	9.5	9.1	0	0	0	0	GOOD			3.7	7/30/2021	602.603	3.7	3.7	257973.093	13343852.73	
42	BLKL	Black Locust	Robinia pseudoacacia	1	10.4	0	0	0	0	0	GOOD			4.6	7/30/2021	609.771	2.4	2.4	257978.73	13343849.81	
43	BLKL	Black Locust	Robinia pseudoacacia	1	15	10	0	0	0	0	GOOD			5.2	7/30/2021	595.249	2.1	2.4	257977.7	13343854.22	
44	BLKL	Black Locust	Robinia pseudoacacia	1	14.1	0	0	0	0	0	GOOD			3.6	7/30/2021	606.79	2	2.5	257981.639	13343848.38	
45	BLKL	Black Locust	Robinia pseudoacacia	1	8.7	0	0	0	0	0	GOOD			3.8	7/30/2021	591.136	4.6	4.5	258017.374	13343863.72	
46	BLKL	Black Locust	Robinia pseudoacacia	1	8.7	0	0	0	0	0	GOOD			3	7/30/2021	606.321	1.7	2.2	258025.907	13343840.81	
47	BLKL	Black Locust	Robinia pseudoacacia	1	11.9	0	0	0	0	0	GOOD			3.3	7/30/2021	599.311	2.4	2.2	258136.428	13343840.98	
48	COT	Eastern Cottonwood	Populus deltoides	1	15.2	0	0	0	0	0	GOOD			3.2	7/30/2021	606.896	3.2	3.2	258147.785	13343832.13	
49	COT	Eastern Cottonwood	Populus deltoides	1	22.7	0	0	0	0	0	GOOD		SHRUBS layer thick	3	7/30/2021	601.421	2.8	2.6	258154.119	13343827.85	
50	COT	Eastern Cottonwood	Populus deltoides	1	10.8	0	0	0	0	0	FAIR		Posion Ivy	6.1	7/30/2021	599.705	2	1.6	258156.032	13343814.72	
51	BLKL	Black Locust	Robinia pseudoacacia	1	8.9	0	0	0	0	0	GOOD		SHRUB THICK	4	7/30/2021	603.88	4.4	5.3	258181.562	13343842.54	
52	COT	Eastern Cottonwood	Populus deltoides	1	10.2	0	0	0	0	0	GOOD		SHRUBS layer thick	4.1	7/30/2021	609.891	5.2	5.8	258254.059	13343878.82	
53	HACB	Hackberry	Celtis occidentalis	1	8	0	0	0	0	0	GOOD			3.9	7/30/2021	610.582	2.3	1.9	258264.425	13343829.61	
54	PLOM	Lombardy Poplar	Populus nigra	1	9.6	0	0	0	0	0	GOOD			3	7/30/2021	614.022	2.6	2.3	258212.982	13343812.66	
55	MUL	White Mulberry	Morus alba	1	12.3	0	0	0	0	0	GOOD			5.9	7/30/2021	610.006	2.6	2.4	258218.796	13343807.23	
56	BLKC	Black Locust	Robinia pseudoacacia	1	12.5	0	0	0	0	0	GOOD		Structure, Trunk Lean	3.6	7/30/2021	620.491	3.8	3.1	258263.528	13343838.18	
57	HACB	Hackberry	Celtis occidentalis	1	10.7	0	0	0	0	0	GOOD			4.2	7/30/2021	608.15	3.3	3.1	258312.462	13343833.44	
58	HACB	Hackberry	Celtis occidentalis	1	12.4	0	0	0	0	0	GOOD			21.5	7/30/2021	596.493	3	2.8	258282.33	13343834.59	
59	COT	Eastern Cottonwood	Populus deltoides	1	9.1	0	0	0	0	0	GOOD		SHRUBS layer thick	5.5	7/30/2021	604.05	2.3	2	258278.166	13343853.49	
60	COT	Eastern Cottonwood	Populus deltoides	1	12.3	0	0	0	0	0	GOOD		SHRUBS layer thick	6.2	7/30/2021	600.833	2.3	2.6	258287.421	13343874.39	
61	HACB	Hackberry	Celtis occidentalis	1	9.6	0	0	0	0	0	GOOD			4	7/30/2021	600.592	1.9	2.2	258304.962	13343843.85	
62	COT	Eastern Cottonwood	Populus deltoides	1	9.7	0	0	0	0	0	GOOD		SHRUBS layer thick	3	7/30/2021	588.364	3.1	3.1	258324.008	13343845.23	
63	COT	Eastern Cottonwood	Populus deltoides	1	11.3	0	0	0	0	0	GOOD		SHRUBS layer thick	9.8	7/30/2021	592.103	2.1	2.2	258312.25	13343858.17	
64	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD		SHRUBS layer thick	5.7	7/30/2021	594.206	3.3	3.6	258325.255	13343863.45	
65	BOXE	Box-Elder	Acer negundo	1	8.4	0	0	0	0	0	POOR		STRUCTURE	4.5	7/30/2021	590.469	3.6	3.3	258336.164	13343837.93	
66	HACB	Hackberry	Celtis occidentalis	1	10.3	0	0	0	0	0	GOOD			125.5	7/30/2021	601.9	2.3	2.7	258345.944	13343831.11	
67	BOXE	Box-Elder	Acer negundo	1	9.5	0	0	0	0	0	GOOD			7.3	7/30/2021	597.434	2.3	1.9	258339.52	13343822.19	
68	WWIL	White Willow	Salix alba	1	14.7	0	0	0	0	0	GOOD			3.6	7/30/2021	595.913	3.1	3.3	258359.818	13343849.63	
69	BOXE	Box-Elder	Acer negundo	1	11.3	0	0	0	0	0	POOR		Structure	15.5	7/30/2021	635.689	4	3	258357.293	13343851.89	
70	BOXE	Box-Elder	Acer negundo	1	12.1	7.2	0	0	0	0	GOOD			979.7	7/30/2021	608.463	9.3	9.7	258374.531	13343818.26	
71	HACB	Hackberry	Celtis occidentalis	1	13.7	0	0	0	0	0	GOOD			3.9	7/30/2021	587.43	1.8	1.6	258408.965	13343839.08	
72	REMX	Red Maple	Acer x freemanii	1	13.4	0	0	0	0	0	GOOD			3.3	7/30/2021	586.389	2.9	2.8	258429.472	13343828.55	
73	REMX	Red Maple	Acer x freemanii	1	13.3	0	0	0	0	0	GOOD			2.9	7/30/2021	587.006	2.6	2.6	258446.222	13343821.28	
74	HACB	Hackberry	Celtis occidentalis	1	11.8	0	0	0	0	0	GOOD			3.7	7/30/2021	595.749	1.8	1.7	258452.236	13343846.58	
75	COT	Eastern Cottonwood	Populus deltoides	1	9.2	0	0	0	0	0	GOOD		SHRUBS layer thick	8	7/30/2021	597.82	2.4	2.2	258427.136	13343848.11	
76	COT	Eastern Cottonwood	Populus deltoides	1	11.1	0	0	0	0	0	GOOD		SHRUBS layer thick	3	7/30/2021	593.626	4.8	3.8	258405.528	13343864	
77	SIBE	Siberian elm	Ulmus pumila	1	10.1	0	0	0	0	0	POOR		Structure	2.7	7/30/2021	597.998	1.9	1.8	257438.149	13344115.79	
78	BLKL	Black Locust	Robinia pseudoacacia	1	24.4	0	0	0	0	0	FAIR		Structure, LOWER TRUNK DAMAGE	2.9	7/30/2021	598.97	1.7	1.4	257452.361	13344113.65	
79	BLKL	Black Locust	Robinia pseudoacacia	1	13.9	12.3	0	0	0	0	FAIR			3.1	7/30/2021	603.079	1.6	1.4	257477.861	13344125.27	
80	BLKL	Black Locust	Robinia pseudoacacia	1	10	7.5	0	0	0	0	FAIR			2.7	7/30/2021	599.793	1.6	1.3	257491.363	13344116.2	
81	SIBE	Siberian elm	Ulmus pumila	1	8.3	0	0	0	0	0	GOOD			3	7/30/2021	597.552	3.1	2.4	257537.254	13344115.73	
82	BLKL	Black Locust	Robinia pseudoacacia	1	15.8	0	0	0	0	0	FAIR			6.5	7/30/2021	598.499	2.4	2.1	257548.339	13344138.71	
83	BLKL	Black Locust	Robinia pseudoacacia	1	15.8	0	0	0	0	0	FAIR			4.4	7/30/2021	600.628	2.8	2.1	257536.532	13344130.7	
84	BLKL	Black Locust	Robinia pseudoacacia	1	10.6	7.6	0	0	0	0	GOOD			4.4	7/30/2021	610.494	6.4	5.8	257527.064	13344140.97	
85	HACB	Hackberry	Celtis occidentalis	1	10.5	0	0	0	0	0	GOOD			2.5	7/30/2021	596.133	2.8	2.6	257490.105	13344128.71	
86	SIBE	Siberian elm	Ulmus pumila	1	10.8	0	0	0	0	0	GOOD			3.4	7/30/2021	608.731	3.3	2.8	257455.048	13344166.23	
87	SIBE	Siberian elm	Ulmus pumila	1	12.6	0	0	0	0	0	GOOD			5.6	7/30/2021	595.714	2	1.7	257459.555	13344158.26	
88	SIBE	Siberian elm	Ulmus pumila	1	8.7	0	0	0	0	0	GOOD			3.7	7/30/2021	599.114	1.8	2	257457.741	13344130.98	
89	BLKL	Black Locust	Robinia pseudoacacia	1	15.6	13.8	0	0	0	0	GOOD			3.7	7/30/2021	592.702	2.7	2	257422.15	13344126.46	
90	BOXE	Box-Elder	Acer negundo	1	8.6	0	0	0	0	0	GOOD			3.8	7/30/2021	601.069	1.8	1.4	257422.92	13344140.53	
91	SIBE	Siberian elm	Ulmus pumila	1	8.4	0	0	0	0	0	GOOD			20.3	7/30/2021	599.662	2.3	1.8	257438.44	13344137.66	
92	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			2.7	7/30/2021	601.599	2.2	1.5	257427.015	13344147.87	
93	SIBE	Siberian elm	Ulmus pumila	1	26.5	0	0	0	0	0	FAIR		Structure	3	7/30/2021	593.861	2.2	1.8	257425.036	13344151.16	
94	BLKL	Black Locust	Robinia pseudoacacia	1	14.7	8.9	0	0	0	0	FAIR			2.8	7/30/2021	588.277	3.3	2.3	257432.652	13344183.84	
95	BLKL	Black Locust	Robinia pseudoacacia	1	15.5	0	0	0	0	0	GOOD			6	7/30/2021	612.038	5.3	4.5	257424.921	13344212.81	
96	SIBE	Siberian elm	Ulmus pumila	1	8	0	0	0	0	0	FAIR		Structure	2.4	7/30/2021	604.338	2.6	1.7	257421.326	13344217.83	
97	BLKL	Black Locust	Robinia pseudoacacia	1	14.7	0	0	0	0	0	FAIR		Structure	5.9	7/30/2021	623.722	4.4	2.8	257473.679	13344195.48	
98	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	8	0	0	0	0	FAIR		Structure	5.2	7/30/2021	619.352	2.7	1.7	257482.019	13344187.37	
99	BLKL	Black Locust	Robinia pseudoacacia	1	10.8	0	0	0	0	0	FAIR		Structure	3	7/30/2021	613.16	6.6	4.7	257497	13344176.77	
100	BLKL	Black Locust	Robinia pseudoacacia	1	8.6	0	0	0	0	0	FAIR		Structure	3.3	7/30/2021	600.255	3.5	2.8	257516.519	13344161.35	
101	SIBE	Siberian elm	Ulmus pumila	1	13.5	0	0	0	0	0	GOOD			3.5	7/30/2021	604.48	2.4	1.5	257527.865	13344155.83	
102	SIBE	Siberian elm	Ulmus pumila	1	18.3	0	0	0	0	0	GOOD			8.1	7/30/2021	615.229	5.7	3.7	257516.838	13344196.67	
103	BLKL	Black Locust	Robinia pseudoacacia	1	14.8	8.7	0	0	0	0	FAIR			4.7	7/30/2021	605.314	3.7	2.4	257489.579	13344204.67	
104	SIBE	Siberian elm	Ulmus pumila	1	19.3	0	0	0	0	0	GOOD			5.6	7/30/2021	610.864	5.6	4.5	257492.848	13344224.43	
105	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	FAIR			2.9	7/30/2021	607.57	3.5	2.4	257472.789	13344216.96	
106	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD		SHRUBS layer thick	9	7/30/2021	615.522	4.3	3.3	257466.837	13344215.7	
107	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			4	7/30/2021	616.491	6.5	5.2	257471.624	13344230.91	
108	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			3.7	7/30/2021	611.763	4	3.1	257461.461	13344213.73	
109	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			3.7	7/30/2021	612.121	2.1	1.6	257425.856	13344228.19	
110	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			2.9	7/30/2021	602.358	1.9	1.4	257437.054	13344227.38	
111	BLKL	Black Locust	Robinia pseudoacacia	1	10.1	0	0	0	0	0	GOOD			3	7/30/2021	605.111	1.8	1.4	257429.972	13344240.73	
112	BLKL	Black Locust	Robinia pseudoacacia	1	10.6	0	0	0	0	0	GOOD			2.9	7/30/2021	610.055	2.6	2.5	257423.056	13344256.85	
113	SIBE	Siberian elm	Ulmus pumila	1	8.2	0	0	0	0	0	GOOD			3	7/30/2021	597.618	2.3	1.8	257431.871	13344257.8	
114	TILIA	Basswood	Tilia americana	1	15.4	0	0	0	0	0	GOOD			3	7/30/2021	602.615	4	3.8	257465.847	13344245.46	
115	BLKL	Black Locust	Robinia pseudoacacia	1	10.1	0	0	0	0	0	POOR			3.6	7/30/2021	607.141	2.1	2	257477.965	13344247.61	
116	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			12.7	7/30/2021	618.25	2.4	1.9	257471.6	13344239.91	
117	BLKL	Black Locust	Robinia pseudoacacia	1	8.9	0	0	0	0	0	FAIR			3.8	7/30/2021	604.472	2.7	2	257487.629	13344247	
118	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3	7/30/2021	601.58	9.2	7.6	257504.741	13344250.23	
119	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.8	7/30/2021	614.494	2.5	1.8	257504.789	13344248.65	
120	BLKL	Black Locust	Robinia pseudoacacia	1	10.1	0	0	0	0	0	GOOD			5	7/30/2021	607.324	3.5	2.6	257507.884	13344230.36	
121	SIBE	Siberian elm	Ulmus pumila	1	8.9	0	0	0	0	0	FAIR		Structure	4.6	7/30/2021	610.903	2.8	2.6	257517.019	13344233.25	
122	BLKL	Black Locust	Robinia pseudoacacia	1	9.3	0	0	0	0	0	GOOD			7.2	7/30/2021	608.435	3.3	2.9	257532.786	13344212.41	
123	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	8	0	0	0	0	GOOD			3	7/30/2021	626.67	5.4	4.1	257552.67	13344187.6	
124	BLKL	Black Locust	Robinia pseudoacacia	1	9.9	8.4	0	0	0	0	GOOD			5.7	7/30/2021	617.06	3.5	2.6	257556.591	13344208.28	
125	SIBE	Siberian elm	Ulmus pumila	1	9.2	0	0	0	0	0	GOOD			5.9	7/30/2021	606.359	4.3	3.1	257556.389	13344223.28	
126	SIBE	Siberian elm	Ulmus pumila	1	33.6	0	0	0	0	0	GOOD			4.3	7/30/2021	591.742	4.2	3.8	257541.533	13344251.47	
127	BLKL	Black Locust	Robinia pseudoacacia	1	8.6	0	0	0	0	0	GOOD			7.2	7/30/2021	607.691	5.1	5.2	257509.528	13344255.04	
128	BLKL	Black Locust	Robinia pseudoacacia	1	8.7	0	0	0	0	0	GOOD			3.2	7/30/2021	631.91	5.7	5.4	257495.987	13344276.46	
129	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	FAIR		Structure	3.6	7/30/2021	612.249	1.9	1.5	257500.84	13344287.68	
~~130~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~10~~	~~7~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Structure~~	~~3.3~~	~~7/30/2021~~	~~609.684~~	~~2.6~~	~~2.1~~	~~257520.685~~	~~13344290.86~~	
~~131~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~9.2~~	~~8.6~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3.7~~	~~7/30/2021~~	~~602.357~~	~~2.6~~	~~2.3~~	~~257529.166~~	~~13344301.75~~	
~~132~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~8.6~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.8~~	~~7/30/2021~~	~~608.959~~	~~1.9~~	~~1.6~~	~~257499.695~~	~~13344304.25~~	
~~133~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~9.9~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~4.9~~	~~7/30/2021~~	~~598.017~~	~~2.6~~	~~2~~	~~257482.227~~	~~13344294.54~~	
~~134~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~9.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Structure~~	~~2.9~~	~~7/30/2021~~	~~611.251~~	~~1.9~~	~~1.6~~	~~257445.581~~	~~13344315.47~~	
~~135~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Structure~~	~~3.7~~	~~7/30/2021~~	~~627.96~~	~~2.8~~	~~2.1~~	~~257444.461~~	~~13344301.04~~	
~~136~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3~~	~~7/30/2021~~	~~609.626~~	~~2~~	~~1.8~~	~~257461.855~~	~~13344290.24~~	
137	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			3.2	7/30/2021	603.702	2.2	1.8	257441.691	13344268.88	
138	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	GOOD			3	7/30/2021	605.127	1.7	1.5	257449.294	13344268.4	
139	SIBE	Siberian elm	Ulmus pumila	1	12.8	0	0	0	0	0	FAIR		Structure	4.4	7/30/2021	583.324	2.4	1.8	257435.175	13344265.38	
~~140~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~12.8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.2~~	~~7/30/2021~~	~~592.199~~	~~2.1~~	~~1.7~~	~~257434.992~~	~~13344307.24~~	
~~141~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~9.6~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3~~	~~7/30/2021~~	~~600.383~~	~~2.1~~	~~2.2~~	~~257436.97~~	~~13344333.49~~	
~~142~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~10.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3.3~~	~~7/30/2021~~	~~612.815~~	~~2.8~~	~~1.9~~	~~257430.119~~	~~13344325.40~~	
~~143~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~9.3~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~4.4~~	~~7/30/2021~~	~~607.372~~	~~2.1~~	~~1.5~~	~~257451.799~~	~~13344349.05~~	
~~144~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~11.7~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Structure~~	~~3~~	~~7/30/2021~~	~~608.727~~	~~2.4~~	~~1.9~~	~~257447.224~~	~~13344361.88~~	
~~145~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~8.3~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.9~~	~~7/30/2021~~	~~603.47~~	~~1.8~~	~~1.4~~	~~257435.996~~	~~13344399.02~~	
~~146~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~9.9~~	~~8.3~~	~~7.1~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~5~~	~~7/30/2021~~	~~608.068~~	~~2.6~~	~~2.7~~	~~257483.512~~	~~13344414.38~~	
~~147~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3.7~~	~~7/30/2021~~	~~603.052~~	~~2.5~~	~~2~~	~~257555.016~~	~~13344388.99~~	
~~148~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~9.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~4.2~~	~~7/30/2021~~	~~612.202~~	~~2.4~~	~~2~~	~~257530.937~~	~~13344362.34~~	
~~149~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~4.3~~	~~7/30/2021~~	~~614.69~~	~~2.3~~	~~2.3~~	~~257512.988~~	~~13344335.67~~	
~~150~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~8.9~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Structure~~	~~3.9~~	~~7/30/2021~~	~~608.607~~	~~1.9~~	~~1.4~~	~~257508.184~~	~~13344328.49~~	
~~151~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~12.9~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~7.8~~	~~7/30/2021~~	~~615.634~~	~~2.2~~	~~1.6~~	~~257513.121~~	~~13344318.07~~	
152	SIBE	Siberian elm	Ulmus pumila	1	8	0	0	0	0	0	GOOD			3.4	7/30/2021	609.39	2.7	2.2	257569.297	13344252.38	
153	SIBE	Siberian elm	Ulmus pumila	1	8	0	0	0	0	0	GOOD			3.7	7/30/2021	615.875	2.4	1.9	257613.564	13344236.52	
154	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	0	0	0	0	0	GOOD			3.4	7/30/2021	607.335	2.1	1.6	257620.541	13344243.54	
155	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	GOOD			3	7/30/2021	583.284	4.5	3.4	257620.226	13344233.74	
156	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.9	7/30/2021	629.991	2.5	2.2	257611.674	13344212.25	
157	BLKL	Black Locust	Robinia pseudoacacia	1	10.9	0	0	0	0	0	GOOD			3.6	7/30/2021	607.425	2.1	1.7	257600.347	13344205.63	
158	SIBE	Siberian elm	Ulmus pumila	1	10.1	0	0	0	0	0	GOOD			6.1	7/30/2021	617.477	5.8	4.9	257607.169	13344210.48	
159	BLKL	Black Locust	Robinia pseudoacacia	1	14.4	0	0	0	0	0	GOOD			3.4	7/30/2021	615.917	9.7	7.4	257612.349	13344212.42	
160	SIBE	Siberian elm	Ulmus pumila	1	10.9	0	0	0	0	0	GOOD			6.5	7/30/2021	613.702	2.5	2.1	257640.032	13344227.44	
161	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3	7/30/2021	612.809	3.2	2.5	257630.149	13344243.98	
162	HACB	Hackberry	Celtis occidentalis	1	11.9	0	0	0	0	0	GOOD			4	7/30/2021	589.94	5.8	4.4	257664.573	13344227.5	
163	BLKL	Black Locust	Robinia pseudoacacia	1	8.9	0	0	0	0	0	GOOD			3	7/30/2021	614.04	2.4	1.8	257664.027	13344229.48	
164	BLKC	Black Cherry	Prunus serotina	1	19.5	0	0	0	0	0	FAIR		Structure, INTERNAL DECAY	3.6	7/30/2021	602.606	3.7	3.2	257651.215	13344241.68	
165	HACB	Hackberry	Celtis occidentalis	1	13.4	0	0	0	0	0	GOOD			3.9	7/30/2021	603.046	2.3	1.6	257658.812	13344256.32	
166	HACB	Hackberry	Celtis occidentalis	1	9.6	0	0	0	0	0	GOOD			3.1	7/30/2021	607.612	3.9	3.5	257672.939	13344252.91	
167	TILIA	Basswood	Tilia americana	1	8.6	0	0	0	0	0	GOOD			2.3	7/30/2021	609.416	1.8	1.4	257672.198	13344243.53	
168	HACB	Hackberry	Celtis occidentalis	1	10.7	0	0	0	0	0	GOOD			5.2	7/30/2021	618.854	2.3	2	257650.221	13344219.76	
169	HACB	Hackberry	Celtis occidentalis	1	14.5	12.6	9.9	12.8	0	0	GOOD			12.5	7/30/2021	611.441	2.5	2	257652.921	13344199.09	
170	SIBE	Siberian elm	Ulmus pumila	1	8.8	0	0	0	0	0	GOOD			4.5	7/30/2021	595.823	2.6	1.9	257673.417	13344196.44	
171	BLKL	Black Locust	Robinia pseudoacacia	1	11.4	0	0	0	0	0	GOOD			6.4	7/30/2021	603.143	5.8	3.8	257675.646	13344182.65	
172	BLKL	Black Locust	Robinia pseudoacacia	1	11.9	0	0	0	0	0	GOOD			3	7/30/2021	606.241	5.3	3.7	257678.555	13344156.62	
173	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	GOOD			2.9	7/30/2021	608.955	1.6	1.6	257677.114	13344156.57	
174	HACB	Hackberry	Celtis occidentalis	1	11.2	0	0	0	0	0	GOOD			2.8	7/30/2021	608.035	3.5	2.7	257654.553	13344144.27	
175	HACB	Hackberry	Celtis occidentalis	1	12.9	0	0	0	0	0	GOOD			5.8	7/30/2021	603.164	3.1	2.3	257648.905	13344137.58	
176	HACB	Hackberry	Celtis occidentalis	1	11.7	0	0	0	0	0	GOOD			290.8	7/30/2021	633.698	9.8	10.3	257660.05	13344172.08	
177	HACB	Hackberry	Celtis occidentalis	1	12.1	0	0	0	0	0	GOOD			2.8	7/30/2021	610.14	3.8	2.7	257660.685	13344165.88	
178	MUL	White Mulberry	Morus alba	1	11.8	10.6	0	0	0	0	GOOD			4.3	7/30/2021	605.09	3.5	4.2	257632.453	13344167.22	
179	BLKL	Black Locust	Robinia pseudoacacia	1	13.1	13.2	0	0	0	0	GOOD			11.9	7/30/2021	599.737	3.3	2.4	257608.464	13344167.81	
180	BLKL	Black Locust	Robinia pseudoacacia	1	10.6	0	0	0	0	0	GOOD			2.9	7/30/2021	609.777	15.1	10.7	257609.912	13344180.97	
181	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			6.2	7/30/2021	612.037	5.3	3.6	257590.507	13344170.32	
182	BLKL	Black Locust	Robinia pseudoacacia	1	12.8	0	0	0	0	0	GOOD			8.8	7/30/2021	611.571	2.8	2	257590.847	13344160.74	
183	BLKL	Black Locust	Robinia pseudoacacia	1	13.2	0	0	0	0	0	GOOD			2.8	7/30/2021	594.161	2.2	1.5	257584.598	13344149.54	
184	BLKL	Black Locust	Robinia pseudoacacia	1	12.9	0	0	0	0	0	GOOD			3.4	7/30/2021	609.072	6.6	6	257576.025	13344149.05	
185	BLKL	Black Locust	Robinia pseudoacacia	1	18.5	0	0	0	0	0	FAIR		Structure	4	7/30/2021	601.169	2.4	1.7	257570.138	13344158.13	
186	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	POOR		Structure	4.4	7/30/2021	626.216	4.6	3.4	257570.01	13344186.2	
187	BLKL	Black Locust	Robinia pseudoacacia	1	9.2	0	0	0	0	0	GOOD			3	7/30/2021	613.169	2.3	1.6	257582.01	13344185.22	
188	BLKL	Black Locust	Robinia pseudoacacia	1	9.3	0	0	0	0	0	GOOD			3.1	7/30/2021	607.94	2.9	2	257565.763	13344193.69	
189	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			2.6	7/30/2021	601.586	2.4	2.1	257578.211	13344199.06	
190	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	0	0	0	0	0	GOOD			4.5	7/30/2021	603.625	5.2	4.1	257585.723	13344203.48	
191	BLKL	Black Locust	Robinia pseudoacacia	1	10	10	0	0	0	0	FAIR		Structure	1.5	8/4/2021	608.436	5	2.8	257574.4	13344086.65	
192	BLKL	Black Locust	Robinia pseudoacacia	1	10	0	0	0	0	0	GOOD			1.2	8/4/2021	598.881	2.5	1.6	257549.616	13344076.39	
193	BLKL	Black Locust	Robinia pseudoacacia	1	10.8	0	0	0	0	0	GOOD			1.2	8/4/2021	604.828	3.6	2.3	257551.559	13344071.26	
194	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			1.1	8/4/2021	602.929	3	1.8	257548.441	13344070.7	
195	BLKL	Black Locust	Robinia pseudoacacia	1	9.9	0	0	0	0	0	FAIR		Structure	1.2	8/4/2021	600.504	4.5	2.6	257541.123	13344061.69	
196	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	0	0	0	0	0	FAIR		Structure	1	8/4/2021	595.458	3	1.8	257551.014	13344053.79	
197	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	0	0	0	0	0	FAIR		Structure, VINES	1	8/4/2021	606.049	2.1	1.7	257572.52	13344043.53	
198	BLKL	Black Locust	Robinia pseudoacacia	1	9.8	0	0	0	0	0	FAIR		Structure	1.1	8/4/2021	601.402	2.1	1.4	257584.386	13344039.23	
199	BLKL	Black Locust	Robinia pseudoacacia	1	9.9	0	0	0	0	0	GOOD			1.2	8/4/2021	607.971	4.3	2.1	257619.237	13344047.42	
200	BLKL	Black Locust	Robinia pseudoacacia	1	17.8	13.7	0	0	0	0	FAIR		Structure	1	8/4/2021	614.544	3.1	2	257608.53	13344085.2	
201	BLKL	Black Locust	Robinia pseudoacacia	1	11.8	0	0	0	0	0	FAIR		Structure	1.1	8/4/2021	602.785	3.6	2.4	257583.561	13344092.66	
202	BLKL	Black Locust	Robinia pseudoacacia	1	9.9	0	0	0	0	0	GOOD			1.1	8/4/2021	624.932	4.7	2.5	257619.546	13344104.2	
203	BLKL	Black Locust	Robinia pseudoacacia	1	10.3	0	0	0	0	0	GOOD			1.1	8/4/2021	607.913	3.2	1.7	257616.25	13344115.77	
204	BLKL	Black Locust	Robinia pseudoacacia	1	9.9	0	0	0	0	0	GOOD			1.2	8/4/2021	607.14	2.9	2.4	257600.505	13344118.54	
205	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	7.8	0	0	0	0	GOOD			1	8/4/2021	607.992	3	2.2	257588.44	13344112.39	
206	HACB	Hackberry	Celtis occidentalis	1	11.1	9.9	0	0	0	0	GOOD			1.2	8/4/2021	611.498	3.9	3	257649.053	13344097.48	
207	SIBE	Siberian elm	Ulmus pumila	1	8.4	0	0	0	0	0	GOOD			1.1	8/4/2021	610.637	2.7	1.9	257668.979	13344086.43	
208	HACB	Hackberry	Celtis occidentalis	1	11.2	0	0	0	0	0	GOOD			1.2	8/4/2021	615.051	2.6	1.9	257660.072	13344079.27	
209	HACB	Hackberry	Celtis occidentalis	1	9.3	7.2	0	0	0	0	GOOD			1.2	8/4/2021	610.787	2.8	1.9	257642.661	13344054.28	
210	HACB	Hackberry	Celtis occidentalis	1	11.3	0	0	0	0	0	FAIR		Structure	1.1	8/4/2021	604.6	2.4	1.8	257645.014	13344044.86	
211	BLKL	Black Locust	Robinia pseudoacacia	1	8.5	0	0	0	0	0	FAIR			1.1	8/4/2021	604.918	2.5	1.7	257674.445	13344046.3	
212	SIBE	Siberian elm	Ulmus pumila	1	13.1	0	0	0	0	0	GOOD			1.1	8/4/2021	606.571	3.8	2	257722.376	13344055.61	
213	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	FAIR			1.1	8/4/2021	606.323	2.6	1.9	257726.997	13344051.43	
214	SIBE	Siberian elm	Ulmus pumila	1	8	6	0	0	0	0	GOOD			1.1	8/4/2021	604.442	4.2	3.1	257732.114	13344112.83	
215	SIBE	Siberian elm	Ulmus pumila	1	14.2	0	0	0	0	0	GOOD			1.2	8/4/2021	604.823	2.6	1.8	257722.833	13344147.67	
216	SIBE	Siberian elm	Ulmus pumila	1	17.3	0	0	0	0	0	GOOD			1.2	8/4/2021	608.871	3.5	2.9	257726.474	13344152.21	
217	SIBE	Siberian elm	Ulmus pumila	1	10.6	0	0	0	0	0	GOOD			1.2	8/4/2021	601.991	3.4	2.3	257745.822	13344213.28	
218	SIBE	Siberian elm	Ulmus pumila	1	9.6	0	0	0	0	0	GOOD			1.2	8/4/2021	605.655	2.6	1.8	257736.978	13344267.69	
~~219~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~10.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~601.702~~	~~2.7~~	~~2.3~~	~~257667.8~~	~~13344293.55~~	
~~220~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~10.1~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~608.342~~	~~2.7~~	~~1.7~~	~~257671.016~~	~~13344315.74~~	
~~221~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~19.1~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.5~~	~~8/4/2021~~	~~609.154~~	~~3.7~~	~~2.6~~	~~257650.673~~	~~13344321.82~~	
~~222~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~13.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~605.958~~	~~3.2~~	~~2.4~~	~~257660.626~~	~~13344325.76~~	
~~223~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~10.3~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~603.566~~	~~2.8~~	~~2~~	~~257691.403~~	~~13344335.27~~	
~~224~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~10.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.1~~	~~8/4/2021~~	~~608.725~~	~~3.1~~	~~2.1~~	~~257701.398~~	~~13344366.46~~	
~~225~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~12.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~603.095~~	~~4.1~~	~~3.4~~	~~257703.017~~	~~13344362.73~~	
~~226~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~13~~	~~11.6~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~612.21~~	~~2.9~~	~~2.1~~	~~257674.765~~	~~13344348.51~~	
~~227~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~12.8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~608.504~~	~~3.7~~	~~3.2~~	~~257668.601~~	~~13344367.14~~	
~~228~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~10.5~~	~~10.1~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.5~~	~~8/4/2021~~	~~604.828~~	~~4.4~~	~~3.2~~	~~257673.315~~	~~13344370.63~~	
~~229~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~8.8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Structure~~	~~1.2~~	~~8/4/2021~~	~~609.095~~	~~5.9~~	~~2.8~~	~~257625.909~~	~~13344357.29~~	
~~230~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~8.8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.6~~	~~8/4/2021~~	~~604.124~~	~~3.6~~	~~2.5~~	~~257629.114~~	~~13344380.28~~	
~~231~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~18.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~610.847~~	~~9.2~~	~~4.3~~	~~257643.236~~	~~13344398.72~~	
~~232~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~15.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~605.82~~	~~3.3~~	~~2.4~~	~~257681.266~~	~~13344392~~	
~~233~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~10.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.1~~	~~8/4/2021~~	~~602.589~~	~~5.4~~	~~3.8~~	~~257671.908~~	~~13344423.92~~	
~~234~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~8.4~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.5~~	~~8/4/2021~~	~~610.758~~	~~4.6~~	~~2.8~~	~~257660.582~~	~~13344442.61~~	
~~235~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.1~~	~~8/4/2021~~	~~603.22~~	~~4.5~~	~~2.9~~	~~257665.887~~	~~13344446.57~~	
~~236~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~597.372~~	~~4.4~~	~~2.4~~	~~257670.135~~	~~13344442.44~~	
~~237~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~19.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.6~~	~~8/4/2021~~	~~606.488~~	~~5.4~~	~~3~~	~~257669.197~~	~~13344445.04~~	
~~238~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~11.3~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~600.669~~	~~3.4~~	~~2.6~~	~~257658.476~~	~~13344448.85~~	
~~239~~	~~BLKC~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~12.1~~	~~10.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~609.674~~	~~3.9~~	~~2.6~~	~~257659.432~~	~~13344470.15~~	
~~240~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~17.1~~	~~16~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Structure~~	~~1.4~~	~~8/4/2021~~	~~616.272~~	~~5.5~~	~~3.7~~	~~257617.319~~	~~13344462.97~~	
~~241~~	~~AELM~~	~~American elm~~	~~Ulmus americana~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.4~~	~~8/4/2021~~	~~602.128~~	~~3.5~~	~~2.6~~	~~257613.866~~	~~13344471.56~~	
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~~243~~	~~AELM~~	~~American elm~~	~~Ulmus americana~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~613.795~~	~~4.4~~	~~3.1~~	~~257596.645~~	~~13344471.51~~	
~~244~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~8.3~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Structure~~	~~1.3~~	~~8/4/2021~~	~~597.52~~	~~4.7~~	~~3.3~~	~~257613.382~~	~~13344442.39~~	
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~~246~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~11.2~~	~~11.1~~	~~9~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.5~~	~~8/4/2021~~	~~603.848~~	~~4.2~~	~~3.5~~	~~257470.201~~	~~13344502.93~~	
~~247~~	~~BLKW~~	~~Black Walnut~~	~~Juglans nigra~~	~~1~~	~~16.4~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.4~~	~~8/4/2021~~	~~606.886~~	~~3.2~~	~~2.1~~	~~257505.549~~	~~13344516.42~~	
~~248~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~598.563~~	~~2.7~~	~~1.6~~	~~257510.785~~	~~13344522.83~~	
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~~250~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~8.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.4~~	~~8/4/2021~~	~~602.084~~	~~4.2~~	~~2.2~~	~~257489.498~~	~~13344546.76~~	
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~~286~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~12.9~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.5~~	~~8/4/2021~~	~~602.277~~	~~5.3~~	~~3.3~~	~~257576.468~~	~~13344553.27~~	
~~287~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~9.9~~	~~9.3~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~610.211~~	~~2.9~~	~~1.7~~	~~257576.741~~	~~13344535.97~~	
~~288~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~10.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~608.924~~	~~2.5~~	~~1.7~~	~~257588.851~~	~~13344535.21~~	
~~289~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~13.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.5~~	~~8/4/2021~~	~~604.349~~	~~3.2~~	~~1.6~~	~~257591.099~~	~~13344526.86~~	
~~290~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~13.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.2~~	~~8/4/2021~~	~~606.804~~	~~3.9~~	~~2.4~~	~~257586.45~~	~~13344519.67~~	
~~291~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~12.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~599.833~~	~~3.9~~	~~2.2~~	~~257589.255~~	~~13344515.57~~	
~~292~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~9~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~1.3~~	~~8/4/2021~~	~~607.687~~	~~2.9~~	~~1.6~~	~~257583.345~~	~~13344513.27~~	
~~293~~	~~BLKC~~	~~Black Cherry~~	~~Prunus serotina~~	~~1~~	~~13.7~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~			~~1.4~~	~~8/4/2021~~	~~612.982~~	~~4.5~~	~~3.6~~	~~257630.491~~	~~13344527.07~~	
~~294~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~11.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~9.4~~	~~8/4/2021~~	~~599.551~~	~~3.3~~	~~2.1~~	~~257733.748~~	~~13344375.25~~	
~~295~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~15.7~~	~~9.7~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3.4~~	~~8/4/2021~~	~~604.273~~	~~3.2~~	~~2.3~~	~~257735.307~~	~~13344420.32~~	
~~296~~	~~BLKL~~	~~Black Locust~~	~~Robinia pseudoacacia~~	~~1~~	~~9.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~6.4~~	~~8/4/2021~~	~~598.445~~	~~2.7~~	~~2.1~~	~~257735.545~~	~~13344450.87~~	
~~297~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~9.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3~~	~~8/4/2021~~	~~598.287~~	~~2~~	~~1.8~~	~~257735.308~~	~~13344454.18~~	
~~298~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~8.9~~	~~8.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3~~	~~8/4/2021~~	~~602.911~~	~~3.5~~	~~2.5~~	~~257748.821~~	~~13344483.7~~	
~~299~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~3~~	~~9.2~~	~~8.6~~	~~8.2~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~STRUCTURE~~	~~3~~	~~8/4/2021~~	~~602.056~~	~~4.8~~	~~3.7~~	~~257701.538~~	~~13344462.59~~	
~~300~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~9.7~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.9~~	~~8/4/2021~~	~~613.773~~	~~1.9~~	~~2~~	~~257666.128~~	~~13344500.9~~	
~~301~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~12.8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3~~	~~8/4/2021~~	~~596.254~~	~~2.8~~	~~2.7~~	~~257688.11~~	~~13344502.9~~	
~~302~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~12.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~5.6~~	~~8/4/2021~~	~~601.679~~	~~2.3~~	~~1.8~~	~~257684.303~~	~~13344505.58~~	
~~303~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~8.7~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~6.7~~	~~8/4/2021~~	~~610.896~~	~~8.1~~	~~5.1~~	~~257676.957~~	~~13344525.2~~	
~~304~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~11.4~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.9~~	~~8/4/2021~~	~~604.236~~	~~2.3~~	~~1.5~~	~~257689.594~~	~~13344544.41~~	
~~305~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~9.6~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.4~~	~~8/4/2021~~	~~609.737~~	~~2.3~~	~~2~~	~~257708.838~~	~~13344539.88~~	
~~306~~	~~SIBE~~	~~Siberian elm~~	~~Ulmus pumila~~	~~1~~	~~8.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~FAIR~~		~~Heavy VINES on truck~~	~~3.3~~	~~8/4/2021~~	~~598.111~~	~~1.7~~	~~1.3~~	~~257748.887~~	~~13344552.96~~	
~~307~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~10.6~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.8~~	~~8/4/2021~~	~~602.101~~	~~1.9~~	~~1.2~~	~~257709.497~~	~~13344573.77~~	
~~308~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~11.7~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~4.8~~	~~8/4/2021~~	~~602.732~~	~~4.1~~	~~3.2~~	~~257690.349~~	~~13344580.45~~	
~~309~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.1~~	~~8/4/2021~~	~~599.571~~	~~2~~	~~1.6~~	~~257687.882~~	~~13344588.16~~	
~~310~~	~~AELM~~	~~American elm~~	~~Ulmus americana~~	~~1~~	~~8.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~4.1~~	~~8/4/2021~~	~~616.34~~	~~2~~	~~1.7~~	~~257671.434~~	~~13344570.91~~	
~~311~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~11~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~4.6~~	~~8/4/2021~~	~~602.125~~	~~3.8~~	~~3.6~~	~~257672.796~~	~~13344579.19~~	
~~312~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3.2~~	~~8/4/2021~~	~~612.589~~	~~4.3~~	~~2.8~~	~~257685.369~~	~~13344596.69~~	
~~313~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~8.1~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3~~	~~8/4/2021~~	~~606.886~~	~~2.3~~	~~1.6~~	~~257680.436~~	~~13344596.42~~	
~~314~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~11.1~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~4.7~~	~~8/4/2021~~	~~606.389~~	~~1.8~~	~~1.3~~	~~257688.23~~	~~13344595.21~~	
~~315~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~13.2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3.5~~	~~8/4/2021~~	~~605.491~~	~~2.5~~	~~1.7~~	~~257692.882~~	~~13344618.63~~	
~~316~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~16.4~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3.3~~	~~8/4/2021~~	~~608.681~~	~~3~~	~~2.5~~	~~257679.223~~	~~13344619.56~~	
~~317~~	~~MUL~~	~~White Mulberry~~	~~Morus alba~~	~~1~~	~~13.4~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~POOR~~		~~Structure~~	~~2.9~~	~~8/4/2021~~	~~608.041~~	~~1.8~~	~~1.3~~	~~257643.584~~	~~13344638.04~~	
~~318~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~10.4~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~6.8~~	~~8/4/2021~~	~~606.122~~	~~2.9~~	~~2.5~~	~~257630.172~~	~~13344632.1~~	
~~319~~	~~BOXE~~	~~Box-Elder~~	~~Acer negundo~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~Poor~~			~~2.9~~	~~8/4/2021~~	~~605.388~~	~~3.1~~	~~2.3~~	~~257629.464~~	~~13344633.58~~	
~~320~~	~~BLKW~~	~~Black Walnut~~	~~Juglans nigra~~	~~1~~	~~17.8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~17.2~~	~~8/4/2021~~	~~608.588~~	~~2.5~~	~~2.8~~	~~257641.171~~	~~13344650.45~~	
~~321~~	~~BLKW~~	~~Black Walnut~~	~~Juglans nigra~~	~~1~~	~~11.8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~2.9~~	~~8/4/2021~~	~~599.922~~	~~2.2~~	~~1.7~~	~~257620.991~~	~~13344645.05~~	
~~322~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~8~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3~~	~~8/4/2021~~	~~596.207~~	~~1.8~~	~~1.4~~	~~257592.916~~	~~13344632.33~~	
~~323~~	~~HACB~~	~~Hackberry~~	~~Celtis occidentalis~~	~~1~~	~~16.5~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~	~~GOOD~~			~~3.4~~	~~8/4/2021~~	~~601.811~~	~~1.7~~	~~1.4~~	~~257616.367~~	~~13344593.26~~	

TREE REMOVAL LEGEND

~~00~~ INDICATES EXISTING TREE TO BE REMOVED

00 INDICATES EXISTING TREE TO REMAIN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Tree List

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
M. Carnaghi

DESIGNED BY:

APPROVED BY:
K. Navaroli

DATE:
September 24, 2021

SCALE: N.T.S.

NFE JOB NO.
M278-01

SHEET NO.
SP 1.22

324	HACB	Hackberry	Celtis occidentalis	1	23.2	0	0	0	0	0	FAIR		Structure	3	8/4/2021	599.281	2.1	1.9	257637.977	13344583
325	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			2.8	8/4/2021	599.351	2	1.5	257475.515	13344675.48
326	BLKL	Black Locust	Robinia pseudoacacia	1	11.9	0	0	0	0	0	FAIR		Structure	2.9	8/4/2021	601.528	2	1.5	257489.147	13344691.59
327	BLKL	Black Locust	Robinia pseudoacacia	1	13.7	0	0	0	0	0	FAIR		Structure	2.7	8/4/2021	603.441	1.6	1.2	257491.909	13344688.07
328	BLKL	Black Locust	Robinia pseudoacacia	1	18.8	0	0	0	0	0	FAIR		Structure	9.6	8/4/2021	584.985	4.4	3.2	257588.983	13344783.89
329	BLKL	Black Locust	Robinia pseudoacacia	1	14.3	12.6	11.3	0	0	0	GOOD			3.1	8/4/2021	600.544	2	1.6	257469.763	13344697.05
330	HACB	Hackberry	Celtis occidentalis	1	13.9	0	0	0	0	0	GOOD			3.5	8/4/2021	595.234	2.2	1.5	257467.41	13344752.78
331	BLKW	Black Walnut	Juglans nigra	1	15.4	12.7	12.4	11.9	0	0	GOOD			3.9	8/4/2021	601.88	4.3	2.9	257478.951	13344758.54
332	BLKL	Black Locust	Robinia pseudoacacia	1	8.6	0	0	0	0	0	GOOD			3	8/4/2021	608.056	2	2.2	257472.751	13344735.74
333	HACB	Hackberry	Celtis occidentalis	1	12.3	0	0	0	0	0	GOOD			3.1	8/4/2021	600.504	2.3	1.8	257488.75	13344733.88
334	MUL	White Mulberry	Morus alba	1	10.1	0	0	0	0	0	GOOD			3.1	8/4/2021	596.476	2.8	2.5	257485.529	13344736.7
335	HACB	Hackberry	Celtis occidentalis	1	10.7	0	0	0	0	0	GOOD			2.8	8/4/2021	599.407	1.8	1.7	257502.124	13344724.61
336	HACB	Hackberry	Celtis occidentalis	1	9.8	0	0	0	0	0	GOOD			3	8/4/2021	599.061	2.1	1.7	257509.532	13344751.15
337	MUL	White Mulberry	Morus alba	1	9.8	0	0	0	0	0	GOOD			3	8/4/2021	604.351	4.1	3.2	257526.695	13344752.97
338	BLKL	Black Locust	Robinia pseudoacacia	1	10.8	8.3	0	0	0	0	GOOD			4.2	8/4/2021	600.946	3.2	2.2	257531.903	13344725.82
339	BLKL	Black Locust	Robinia pseudoacacia	1	19.8	0	0	0	0	0	GOOD			3	8/4/2021	611.996	2.1	1.7	257528.714	13344686.6
340	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			2.9	8/4/2021	599.016	1.9	1.4	257534.414	13344669.86
341	BOXE	Box-Elder	Acer negundo	1	9.9	0	0	0	0	0	POOR			2.8	8/4/2021	605.213	1.7	1.2	257541.472	13344665.43
342	BLKL	Black Locust	Robinia pseudoacacia	1	8.3	0	0	0	0	0	GOOD			3.1	8/4/2021	607.153	2.3	1.7	257549.812	13344655.59
343	BLKL	Black Locust	Robinia pseudoacacia	1	9.4	0	0	0	0	0	GOOS			3.1	8/4/2021	604.489	1.9	1.3	257552.845	13344658.81
344	BLKW	Black Walnut	Juglans nigra	1	12.3	0	0	0	0	0	GOOD			2.9	8/4/2021	601.066	2.4	1.8	257564.2	13344659.57
345	MUL	White Mulberry	Morus alba	1	10.5	0	0	0	0	0	GOOD			16	8/4/2021	612.646	2.6	2.7	257557.575	13344694.59
346	HACB	Hackberry	Celtis occidentalis	1	19.5	0	0	0	0	0	GOOD			3.5	8/4/2021	607.14	2.2	1.5	257558.267	13344727.33
347	MUL	White Mulberry	Morus alba	1	18.7	0	0	0	0	0	GOOD			3	8/4/2021	604.519	2.1	1.6	257564.699	13344730.77
348	MUL	White Mulberry	Morus alba	1	9.8	0	0	0	0	0	POOR			7.7	8/4/2021	599.185	2	1.5	257560.081	13344760.82
349	HACB	Hackberry	Celtis occidentalis	1	8	0	0	0	0	0	GOOD			3.3	8/4/2021	602.219	1.8	1.4	257545.215	13344791.34
350	MUL	White Mulberry	Morus alba	1	12.2	0	0	0	0	0	GOOD			2.8	8/4/2021	609.335	1.8	1.2	257531.912	13344784.35
351	MUL	White Mulberry	Morus alba	1	12.5	0	0	0	0	0	GOOD			3	8/4/2021	600.315	4.3	3.3	257513.849	13344785.95
352	BLKW	Black Walnut	Juglans nigra	1	17.6	0	0	0	0	0	GOOD			2.4	8/4/2021	610.834	5.2	3.3	257512.467	13344785.45
353	BLKL	Black Locust	Robinia pseudoacacia	1	14.4	0	0	0	0	0	POOR		Structure	3.6	8/4/2021	603.483	2.5	1.6	257460.203	13344799.36
354	BLKL	Black Locust	Robinia pseudoacacia	1	8.8	0	0	0	0	0	FAIR		Structure	3.1	8/4/2021	600.708	1.9	1.2	257467.899	13344798.65
355	COT	Eastern Cottonwood	Populus deltoides	1	17.7	0	0	0	0	0	GOOD		SHRUBS layer thick	4.4	8/4/2021	589.169	2.6	1.7	257476.829	13344808.38
356	MUL	White Mulberry	Morus alba	1	10.2	0	0	0	0	0	GOOD			3.7	8/4/2021	606.278	3.5	2.4	257469.35	13344806.33
357	SIBE	Siberian elm	Ulmus pumila	1	17.2	0	0	0	0	0	GOOD			5.7	8/4/2021	625.466	6.8	5.2	257481.953	13344812.58
358	SIBE	Siberian elm	Ulmus pumila	1	12.2	0	0	0	0	0	GOOD			2.5	8/4/2021	619.774	2.6	1.8	257470.452	13344812.86
359	COT	Eastern Cottonwood	Populus deltoides	1	9.7	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.8	8/4/2021	610.065	2.2	1.6	257479.988	13344810.92
360	SIBE	Siberian elm	Ulmus pumila	1	8	0	0	0	0	0	GOOD			2.7	8/4/2021	607.35	1.9	1.3	257476.299	13344826.78
361	SIBE	Siberian elm	Ulmus pumila	1	15.5	0	0	0	0	0	GOOD			3.4	8/4/2021	612.485	2.1	1.5	257478.917	13344834.15
362	SIBE	Siberian elm	Ulmus pumila	1	9	0	0	0	0	0	GOOD			6.4	8/4/2021	605.31	2.6	1.8	257468.541	13344835.23
363	SIBE	Siberian elm	Ulmus pumila	1	8.3	0	0	0	0	0	GOOD			2.5	8/4/2021	604.081	2	1.4	257467.149	13344841.63
364	COT	Eastern Cottonwood	Populus deltoides	1	16.5	0	0	0	0	0	GOOD			3.4	8/4/2021	604.789	2.9	1.9	257488.619	13344830.5
365	SIBE	Siberian elm	Ulmus pumila	1	11.1	0	0	0	0	0	GOOD			2.3	8/4/2021	600.869	2.1	1.4	257498.494	13344836.2
366	BLKL	Black Locust	Robinia pseudoacacia	1	15.5	0	0	0	0	0	GOOD			4.1	8/4/2021	602.172	1.9	1.7	257501.998	13344854.79
367	SIBE	Siberian elm	Ulmus pumila	1	10.5	0	0	0	0	0	POOR			2.9	8/4/2021	607.97	2.1	1.6	257467.032	13344865.68
368	AELM	American elm	Ulmus americana	1	10.9	0	0	0	0	0	FAIR		STRUCTURE	2.9	8/9/2021	616.337	2	1.6	257465.923	13344862.55
369	MUL	White Mulberry	Morus alba	1	13.7	0	0	0	0	0	FAIR		Structure, TRUNK	2.6	8/5/2021	623.816	3.4	2.4	257540.659	13344859.44
370	MUL	White Mulberry	Morus alba	1	9.8	0	0	0	0	0	GOOD			8.6	8/5/2021	617.078	9.8	6.2	257535.415	13344826.98
371	BOXE	Box-Elder	Acer negundo	1	12.3	0	0	0	0	0	GOOD			3.3	8/5/2021	623.971	2.9	2.1	257535.45	13344806.28
372	BOXE	Box-Elder	Acer negundo	1	9.6	0	0	0	0	0	FAIR		Structure, TRUNK LEAN	3	8/5/2021	625.179	12.2	8.7	257606.989	13344692.81
373	BLKW	Black Walnut	Juglans nigra	1	9.3	0	0	0	0	0	GOOD			2.9	8/5/2021	604.293	2	1.3	257611.476	13344700.05
374	HACB	Hackberry	Celtis occidentalis	1	9.8	0	0	0	0	0	GOOD			2.9	8/5/2021	612.32	4.5	3.3	257610.05	13344683.74
375	HACB	Hackberry	Celtis occidentalis	1	12.1	0	0	0	0	0	GOOD			2.9	8/5/2021	610.445	3.8	2.6	257599.594	13344676.1
376	BLKW	Black Walnut	Juglans nigra	1	14.6	0	0	0	0	0	GOOD			5.3	8/5/2021	607.231	5.3	3.7	257622.767	13344682.32
377	HACB	Hackberry	Celtis occidentalis	1	9.6	0	0	0	0	0	GOOD			3.1	8/5/2021	610.515	3.6	2.7	257639.649	13344684.7
378	MUL	White Mulberry	Morus alba	1	22.8	0	0	0	0	0	FAIR		Structure, TRUNK	10	8/5/2021	612.884	4.4	4.2	257658.456	13344694.86
379	HACB	Hackberry	Celtis occidentalis	1	18.2	0	0	0	0	0	GOOD			4.5	8/5/2021	606.909	2.4	1.8	257683.965	13344676.74
380	BLKC	Black Cherry	Prunus serotina	1	10.2	0	0	0	0	0	FAIR		Structure, TRUNK	2.7	8/5/2021	600.406	2	1.6	257683.852	13344670.96
381	HACB	Hackberry	Celtis occidentalis	1	15.4	0	0	0	0	0	GOOD			3.9	8/5/2021	601.062	2.7	2.2	257689.745	13344649.21
382	BLKW	Black Walnut	Juglans nigra	1	17	0	0	0	0	0	FAIR		Structure, TRUNK	2.9	8/5/2021	608.313	2.1	1.6	257672.58	13344710.13
383	MUL	White Mulberry	Morus alba	1	8.4	0	0	0	0	0	FAIR			3	8/5/2021	613.239	1.7	1.6	257679.907	13344718.49
384	BLKW	Black Walnut	Juglans nigra	1	10.5	0	0	0	0	0	GOOD			2.6	8/5/2021	598.25	1.9	1.6	257687.715	13344709.27
385	BLKC	Black Cherry	Prunus serotina	1	12.3	0	0	0	0	0	GOOD			3.1	8/5/2021	620.195	4.9	4.1	257690.033	13344714.38
386	BLKW	Black Walnut	Juglans nigra	1	11.8	0	0	0	0	0	POOR		Structure, TRUNK DECAY	2.9	8/5/2021	605.558	1.8	1.7	257698.117	13344718.78
387	BLKW	Black Walnut	Juglans nigra	1	16.5	0	0	0	0	0	GOOD			2.9	8/5/2021	602.558	1.5	1.3	257687.095	13344736.51
388	MUL	White Mulberry	Morus alba	1	8.3	0	0	0	0	0	GOOD			3.3	8/5/2021	618.182	6.2	6.1	257667.51	13344741.52
389	BLKC	Black Cherry	Prunus serotina	1	13.6	0	0	0	0	0	GOOD			2.4	8/5/2021	595.511	2	1.8	257650.42	13344745.05
390	BOXE	Box-Elder	Acer negundo	1	16.1	0	0	0	0	0	FAIR		Structure, TRUNK	3	8/5/2021	604.559	2.2	2.1	257643.755	13344750.06
391	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	POOR		Structure, TRUNK LEAN	4.5	8/5/2021	603.412	2.8	2.1	257608.412	13344752.46
392	MUL	White Mulberry	Morus alba	1	16.8	0	0	0	0	0	GOOD			2.8	8/5/2021	621.466	2.3	1.9	257622.51	13344767.91
393	MUL	White Mulberry	Morus alba	1	14	0	0	0	0	0	GOOD			3.6	8/5/2021	606.73	3.2	2.5	257621.247	13344762.01
394	MUL	White Mulberry	Morus alba	1	11.3	0	0	0	0	0	GOOD			3.6	8/5/2021	592.773	2.8	2.1	257637.744	13344784.43
395	MUL	White Mulberry	Morus alba	1	8.4	0	0	0	0	0	FAIR		Structure, TRUNK	3.7	8/5/2021	614.636	7.4	5.4	257629.225	13344804.18
396	MUL	White Mulberry	Morus alba	1	14.3	0	0	0	0	0	POOR		Structure, TRUNK LEAN	3	8/5/2021	609.655	1.7	1.3	257608.882	13344812.59
397	MUL	White Mulberry	Morus alba	1	13.3	0	0	0	0	0	GOOD			3.6	8/5/2021	608.769	2.3	1.6	257597.278	13344828.84
398	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			3.3	8/5/2021	598.21	2.3	2	257584.62	13344824.01
399	MUL	White Mulberry	Morus alba	1	10.4	0	0	0	0	0	GOOD			3.4	8/5/2021	628.325	2	1.5	257568.704	13344830.07
400	MUL	White Mulberry	Morus alba	1	8.4	0	0	0	0	0	GOOD			3.6	8/5/2021	605.184	1.9	1.5	257568.894	13344834.08
401	MUL	White Mulberry	Morus alba	1	10.6	0	0	0	0	0	FAIR		Structure, Posion Ivy	4.4	8/5/2021	606.974	2	1.5	257585.834	13344841.81
402	MUL	White Mulberry	Morus alba	1	8.6	0	0	0	0	0	GOOD			4	8/5/2021	604.28	2.1	1.5	257618.683	13344856.89
403	BLKC	Black Cherry	Prunus serotina	1	17.6	0	0	0	0	0	FAIR		Structure, TRUNK	2.5	8/5/2021	603.381	1.6	1.7	257585.984	13344873.55
404	BLKC	Black Cherry	Prunus serotina	1	11.9	0	0	0	0	0	FAIR		Structure, TRUNK	2.9	8/5/2021	623.855	3	2.6	257585.664	13344888.38
405	BLKC	Black Cherry	Prunus serotina	1	9.6	0	0	0	0	0	FAIR		Structure, TRUNK LEAN	2.9	8/5/2021	592.52	7.4	7.9	257592.673	13344910.38
406	MUL	White Mulberry	Morus alba	1	12.8	0	0	0	0	0	GOOD			3.5	8/5/2021	599.714	2.2	2.1	257606.697	13344887.32
407	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			3.3	8/5/2021	606.67	7	4.7	257617.779	13344884.25
408	MUL	White Mulberry	Morus alba	1	13.9	0	0	0	0	0	GOOD			2.9	8/5/2021	604.353	2.1	1.4	257616.485	13344879.96
409	MUL	White Mulberry	Morus alba	1	15.6	0	0	0	0	0	GOOD			2.9	8/5/2021	612.427	3	2.1	257643.293	13344874.72
410	MUL	White Mulberry	Morus alba	1	14.3	0	0	0	0	0	GOOD			4.1	8/5/2021	618.729	4.1	3.9	257649.431	13344857.52
411	MUL	White Mulberry	Morus alba	1	9.6	0	0	0	0	0	GOOD			3.1	8/5/2021	606.308	1.9	1.3	257646.034	13344843.63
412	AELM	American elm	Ulmus americana	1	8.8	0	0	0	0	0	FAIR		STRUCTURE	2.8	8/5/2021	606.319	2.9	1.8	257643.402	13344844.98
413	MUL	White Mulberry	Morus alba	1	8.3	0	0	0	0	0	FAIR			4	8/5/2021	609.335	5.8	3.9	257660.846	13344837.67
414	MUL	White Mulberry	Morus alba	1	17.3	0	0	0	0	0	GOOD			4	8/5/2021	601.085	2.2	1.5	257660.111	13344833.74
415	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.9	8/5/2021	611.617	2.2	1.7	257661.758	13344841.26
416	MUL	White Mulberry	Morus alba	1	10.6	0	0	0	0	0	GOOD			3.9	8/5/2021	617.732	2.2	1.4	257675.265	13344810.34
417	MUL	White Mulberry	Morus alba	1	9.6	0	0	0	0	0	GOOD			3.2	8/5/2021	613.346	2.8	1.7	257680.459	13344812.5
418	MUL	White Mulberry	Morus alba	1	8.9	0	0	0	0	0	GOOD			3.1	8/5/2021	618.888	3.8	2.6	257674.881	13344807.2
419	MUL	White Mulberry	Morus alba	1	9.6	0	0	0	0	0	GOOD			3.8	8/5/2021	621.71	4.9	2.5	257665.552	13344820.97
420	BOXE	Box-Elder	Acer negundo	1	19.9	0	0	0	0	0	FAIR		Structure TRUNK LEAN	3	8/5/2021	631.019	2.4	1.4	257637.627	13344817.6
421	MUL	White Mulberry	Morus alba	1	9.3	0	0	0	0	0	GOOD			3.3	8/5/2021	620.587	12	7.2	257683.218	13344808.43
422	MUL	White Mulberry	Morus alba	1	14.6	0	0	0	0	0	FAIR		Structure, TRUNK	3.3	8/5/2021	613.508	2.7	1.6	257670.127	13344771
423	MUL	White Mulberry	Morus alba	1	12.6	0	0	0	0	0	GOOD			2.9	8/5/2021	605.972	2.1	1.4	257673.493	13344768.48
424	MUL	White Mulberry	Morus alba	1	12.5	0	0	0	0	0	GOOD			2.6	8/5/2021	611.247	1.9	1.4	257690.868	13344786.69
425	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	FAIR		Posion Ivy	3.5	8/5/2021	605.911	2.2	1.5	257692.31	13344787.15
426	MUL	White Mulberry	Morus alba	1	14	0	0	0	0	0	POOR		STRUCTURE	2.9	8/5/2021	611.979	2.7	1.6	257697.537	13344743.62
427	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.7	8/5/2021	613.472	1.6	1.5	257699.165	13344744.6
428	MUL	White Mulberry	Morus alba	2	12.2	10.6	0	0	0	0	FAIR		STRUCTURE	4	8/5/2021	612.906	3.5	2.5	257708.527	13344749.87
429	SLIE	Slippery Elm	Ulmus rubra	1	9.6	0	0	0	0	0	GOOD			3	8/5/2021	607.725	1.6	1.5	257710.111	13344724.69
430	BLKC	Black Cherry	Prunus serotina	1	12.6	0	0	0	0	0	GOOD			2.9	8/5/2021	608.753	2	1.5	257724.887	13344784.87
431	BLKW	Black Walnut	Juglans nigra	1	8.6	0	0	0	0	0	GOOD			2.6	8/5/2021	602.716	1.9	1.5	257766.847	13344767.48
432	SIBE	Siberian elm	Ulmus pumila	1	12.8	0	0	0	0	0	FAIR		STRUCTURE	2.9	8/5/2021	605.799	1.7	1.2	257752.285	13344715.29
433	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			2.8	8/5/2021	591.79	2.3	2.1	257755.221	13344647.02
434	BOXE	Box-Elder	Acer negundo	1	10.6	0	0	0	0	0	FAIR		STRUCTURE	3	8/5/2021	604.695	3.1	2.2	257763.437	13344838.95
435	BLKW	Black Walnut	Juglans nigra	1	10.3	0	0	0	0	0	GOOD			2.9	8/5/2021	601.486	1.7	1.4	257765.56	13344871.51
436	BLKC	Black Cherry	Prunus serotina	2	8.3	6.5	0	0	0	0	GOOD			3.4	8/5/2021	606.661	2.5	1.9	257775.42	13344876.83
437	MUL	White Mulberry	Morus alba	3	8.5	6.8	6.5	0	0	0	FAIR		STRUCTURE	3.5	8/5/2021	608.214	3.8	3	257794.849	13344862.88
438	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	FAIR		STRUCTURE	3.4	8/5/2021	601.731	3.6	3	257751.371	13344882.09
439	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	FAIR		STRUCTURE	3.3	8/5/2021	605.339	3.2	2.5	257745.445	13344883.4
440	BLKC	Black Cherry	Prunus serotina	2	12.1	11.3	0	0	0	0	FAIR		STRUCTURE	3.4	8/5/2021	607.641	2.1	1.6	257735.578	13344847.04
441	MUL	White Mulberry	Morus alba	1	9.4	0	0	0	0	0	FAIR		STRUCTURE	3.2	8/5/2021	606.781	2	1.6	257713.802	13344826.76
442	MUL	White Mulberry	Morus alba	1	10.8	0	0	0	0	0	FAIR		STRUCTURE	3.2	8/5/2021	611.719	4.6	3.7	257693.988	13344823.4
443	MUL	White Mulberry	Morus alba	1	11.6	0	0	0	0	0	FAIR		STRUCTURE	2.6	8/5/2021	604.197	3.4	3	257719.016	13344791.25
444	MUL	White Mulberry	Morus alba	1	11.6	0	0	0	0	0	FAIR		STRUCTURE	2.9	8/5/2021	594.754	2.4	1.7	257720.034	13344801.91
445	NORWM	Norway Maple	Acer platanoides	1	10.1	0	0	0	0	0	GOOD			3.1	8/5/2021	607.135	2.1	1.6	257743.707	13344813.5
446	BOXE	Box-Elder	Acer negundo	1	9.6	0	0	0	0	0	FAIR		STRUCTURE	3.4	8/5/2021	578.872	10.6	9.3	257750.653	13344800.85
447	MUL	White Mulberry	Morus alba	1	19.5	0	0	0	0	0	FAIR			3	8/5/2021	604.168	1.8	1.7	257725.724	13344767.55
448	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	FAIR		STRUCTURE	2.8	8/5/2021	611.05	3	2.4	257730.068	13344776.24
449	MUL	White Mulberry	Morus alba	1	12.5	0	0	0	0	0	GOOD			5.3	8/5/2021	581.891	2.7	2.1	257686.43	13344855.72
450	BlkC	Black Cherry	Prunus serotina	1	12.3	0	0	0	0	0	GOOD			4.5	8/5/2021	622.341	3.3	3.3	257701.929	13344847.99
451	MUL	White Mulberry	Morus alba	1	8.2	0	0	0	0	0	FAIR		STRUCTURE	3.2	8/5/2021	602.724	3.6	2.6	257708.105	13344864.49
452	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	FAIR		STRUCTURE	3.9	8/5/2021	610.533	5.5	4.1	257673.256	13344880.82
453	BLKC	Black Cherry	Prunus serotina	1	8.2	0	0	0	0	0	FAIR		STRUCTURE	3	8/5/2021	615.808	4.2	2.4	257671.201	13344893.29
454	MUL	White Mulberry	Morus alba	1	10.3	0	0	0	0	0	GOOD			3.3	8/5/2021	598.942	4.8	3.6	257657.769	13344882.43
455	MUL	White Mulberry	Morus alba	1	11.1	0	0	0	0	0	GOOD			4.7	8/5/2021	621.147	2.2	1.6	257661.934	13344887.19
456	MUL	White Mulberry	Morus alba	1	9.3	0	0	0	0	0	GOOD			7.9	8/5/2021	614.223	2.4	2	257611.758	13344905.98
457	MUL	White Mulberry	Morus alba	1	16.9	0	0	0	0	0	FAIR		STRUCTURE	3.3	8/5/2021	598.948	5.7	4.1	257682.032	13344905.38
458	MUL	White Mulberry	Morus alba	1	15.3	0	0	0	0	0	FAIR		STRUCTURE	3	8/5/2021	620.622	3.2	2.3	257567.714	13344907.37
459	MUL	White Mulberry	Morus alba	1	11.2	0	0	0	0	0	GOOD			3	8/5/2021	600.153	1.9	1.4	257573.174	13344912.36
460	MUL	White Mulberry	Morus alba	1	10.2	0	0	0	0	0	GOOD			3.1	8/5/2021	600.964	3.5	2.2	257570.423	13344919.48
461	AELM	American elm	Ulmus americana	1	8.8	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3.1	8/5/2021	602.872	2.2	1.5	257551.124	13344927.03
462	AELM	American elm	Ulmus americana	1	14.2	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3	8/5/2021	604.127	2	1.4	257548.65	13344928.95
463	AELM	American elm	Ulmus americana	1	8.3	0	0	0	0	0	FAIR	X	Peeling Bark, Cavity	3.7	8/5/2021	617.226	3.7	2.2	257549.717	13344935.39
464	MUL	White Mulberry	Morus alba	1	14.1	0	0	0	0	0	FAIR		STRUCTURE	2.6	8/5/2021	598.219	2.6	2.1	257572.268	13344946.52
465	AELM	American elm	Ulmus americana	1	8.6	0	0	0	0	0	FAIR		STRUCTURE	2.8	8/5/2021	616.757	2.4	1.6	257607.223	13344971.19
466	AELM	American elm	Ulmus americana	1	14.6	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.9	8/5/2021	613.849	2.9	1.9	257595.744	13344988.18
467	BLKC	Black Cherry	Prunus serotina	1	10.3	0	0	0	0	0	FAIR			3	8/5/2021	601.521	1.9	1.2	257593.774	13344997.79
468	MUL	White Mulberry	Morus alba	1	13.1	0	0	0	0	0	FAIR		STRUCTURE	3.6	8/5/2021	608.575	2.2	1.4	257613.348	13344981.98
469	MUL	White Mulberry	Morus alba	1	13.8	0	0	0	0	0	FAIR		STRUCTURE	2.8	8/5/2021	609.697	6.1	5	257619.886	13344967.92
470	MUL	White Mulberry	Morus alba	1	8.2	0	0	0	0	0	POOR		STORM DAMAGE, Canopy damage	3.8	8/5/2021	644.033	3	1.8	257635.754	13344957.63
471	BLKC	Black Cherry	Prunus serotina	1	12.1	0	0	0	0	0	GOOD		Posion Ivy	2.7	8/5/2021	618.425	2.3	1.5	257643.473	13344947.76
472	MUL	White Mulberry	Morus alba	1	12.2	0	0	0	0	0	GOOD			3.8	8/5/2021	604.463	3.6	2.6	257655.155	13344949.83
473	BLKC	Black Cherry	Prunus serotina	1	8.9	0	0	0	0	0	GOOD			2.9	8/5/2021	598.994	2	1.3	257651.603	13344948.21
474	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			6.3	8/5/2021	610.226	3.5	2.1	257643.425	13344921.32
475	MUL	White Mulberry	Morus alba	1	11.6	0	0	0	0	0	FAIR		Structure	6	8/5/2021	625.073	3.2	2.8	257619.476	13344913.31
476	MUL	White Mulberry	Morus alba	1	9.4	0	0	0	0	0	GOOD			2.2	8/5/2021	620.052	5.2	3.1	257623.278	13344918.74
477	BLKC	Black Cherry	Prunus serotina	1	8.3	0	0	0	0	0	GOOD			10.5	8/5/2021	595.445	2.8	1.9	257629.731	13344916.07
478	MUL	White Mulberry	Morus alba	1	9.3	0	0	0	0	0	GOOD			3.5	8/9/2021	632.716	2.3	1.8	257594.725	13344927.49
479	BLKC	Black Cherry	Prunus serotina	1	8.5	0	0	0	0	0	GOOD			4.9	8/9/2021	604.583	2.3	1.6	257526.149	13344941.43
480	AELM	American elm	Ulmus americana	1	19	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	5.4	8/9/2021	609.106	2.6	2.2	257497.62	13344962.3
481	AELM	American elm	Ulmus americana	1	15.6	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3	8/9/2021	610.597	2.8	1.9	257490.23	13344950.72
482	SIBE	Siberian elm	Ulmus pumila	1	13.4	9.2	0	0	0	0	GOOD			12.8	8/9/2021	615.526	2.3	1.5	257471.019	13344947.11
483	AELM	American elm	Ulmus americana	1	9.4	0	0	0	0	0	POOR		STRUCTURE	4.5	8/9/2021	607.721	2.7	2.2	257458.812	13344871.3
484	SIBE	Siberian elm	Ulmus pumila	1	14.2	0	0	0	0	0	FAIR			2.8	8/9/2021	600.537	1.9	1.5	257463.29	13344883.83
485	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	FAIR			4.1	8/9/2021	600.955	2.9	2.1	257470.753	13344897.87
486	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	8.8	8/9/2021	600.482	3	2.2	257474.643	13344953.35

487	AELM	American elm	Ulmus americana	1	10.2	7.6	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3	8/9/2021	622.248	3.5	2.9	257494.127	13344988.41
488	BOXE	Box-Elder	Acer negundo	1	10.6	0	0	0	0	0	FAIR			3	8/9/2021	616.958	1.8	2	257487.293	13344985.64
489	AELM	American elm	Ulmus americana	1	16.3	9.4	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3	8/9/2021	605.171	1.8	1.4	257484.427	13344984.08
490	AELM	American elm	Ulmus americana	1	11.7	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3	8/9/2021	608.162	2	1.4	257491.188	13344996.84
491	AELM	American elm	Ulmus americana	1	9	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.9	8/9/2021	610.669	2.7	2.2	257499.886	13345004.36
492	AELM	American elm	Ulmus americana	1	19.7	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3.8	8/9/2021	609.681	2.7	2.1	257489.755	13345002.65
493	MUL	White Mulberry	Morus alba	1	13.2	0	0	0	0	0	GOOD			2.8	8/9/2021	604.241	2.1	2.4	257516.967	13345007.35
494	AELM	American elm	Ulmus americana	1	16.3	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3.8	8/9/2021	603.227	2	1.9	257523.376	13345027.41
495	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			4.2	8/9/2021	609.857	2.1	1.7	257530.788	13345028.71
496	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			3.8	8/9/2021	610.738	2.7	2.2	257539.495	13345043.81
497	HACB	Hackberry	Celtis occidentalis	1	9	0	0	0	0	0	GOOD			3	8/9/2021	606.033	2	1.8	257509.692	13345052.39
498	MUL	White Mulberry	Morus alba	1	12.1	0	0	0	0	0	FAIR		Structure	3.4	8/9/2021	611.052	2.1	1.9	257487.951	13345054.85
499	MUL	White Mulberry	Morus alba	1	14.4	0	0	0	0	0	GOOD			3	8/9/2021	610.342	1.9	1.7	257497.312	13345051.54
500	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	DEAD		Structure	2.3	8/9/2021	606.249	3.6	3	257502.051	13345078.28
501	BOXE	Box-Elder	Acer negundo	1	12.1	0	0	0	0	0	GOOD			5.9	8/9/2021	605.977	2	1.8	257506.907	13345083.65
502	MUL	White Mulberry	Morus alba	1	8.7	0	0	0	0	0	FAIR		Structure	2.6	8/9/2021	607.621	2.1	2	257527.285	13345062.47
503	MUL	White Mulberry	Morus alba	1	16.7	0	0	0	0	0	GOOD			3.5	8/9/2021	600.586	1.6	1.4	257542.444	13345065.52
504	BLKC	Black Cherry	Prunus serotina	1	8.8	0	0	0	0	0	FAIR		Structure	2.8	8/9/2021	608.075	6.7	5.7	257547.434	13345080.27
505	MUL	White Mulberry	Morus alba	1	11.6	0	0	0	0	0	GOOD			4.3	8/9/2021	604.469	5.7	5.3	257556.98	13345033.62
506	MUL	White Mulberry	Morus alba	1	17.5	0	0	0	0	0	GOOD			3.7	8/9/2021	603.802	1.8	1.6	257564.501	13345073.36
507	MUL	White Mulberry	Morus alba	1	10.5	0	0	0	0	0	GOOD			3.4	8/9/2021	609.469	1.8	1.8	257574.151	13345089.54
508	BLKL	Black Locust	Robinia pseudoacacia	1	11.6	11.5	0	0	0	0	GOOD			2.9	8/9/2021	606.236	2	1.9	257607.949	13345091.35
509	MUL	White Mulberry	Morus alba	1	16	0	0	0	0	0	GOOD			7.8	8/9/2021	609.379	2.1	2	257628.611	13345099.42
510	MUL	White Mulberry	Morus alba	1	12.9	0	0	0	0	0	POOR		Structure, trunk	3.4	8/9/2021	604.802	1.7	1.5	257618.817	13345063.45
511	AELM	American elm	Ulmus americana	1	9.5	0	0	0	0	0	GOOD			3.5	8/9/2021	595.535	3.3	2.8	257631.258	13345051.62
512	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	POOR		Structure	4.1	8/9/2021	606.714	2.1	1.7	257626.937	13345046.35
513	MUL	White Mulberry	Morus alba	1	14.1	0	0	0	0	0	GOOD			3	8/9/2021	595.486	2.5	2.3	257661.882	13345043.69
514	BLKC	Black Cherry	Prunus serotina	1	12.6	0	0	0	0	0	GOOD			3.2	8/9/2021	602.399	5.3	4.4	257673.123	13345037.39
515	REMX	Red Maple	Acer x freemanii	1	16.1	0	0	0	0	0	GOOD			2.9	8/9/2021	599.956	6.3	5.8	257673.441	13345034.3
516	AELM	American elm	Ulmus americana	1	10.4	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3.2	8/9/2021	595.372	1.8	1.6	257691.128	13345034.02
517	BLKC	Black Cherry	Prunus serotina	1	11.2	0	0	0	0	0	GOOD			4.7	8/9/2021	598.337	2.2	1.8	257688.884	13345001.88
518	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			5.6	8/9/2021	618.36	3.5	2.8	257667.951	13344994.05
519	MUL	White Mulberry	Morus alba	1	12.3	0	0	0	0	0	GOOD			3.2	8/9/2021	615.131	3	2.5	257654.591	13344996.14
520	MUL	White Mulberry	Morus alba	1	9.3	0	0	0	0	0	GOOD			2.7	8/9/2021	619.099	2.2	1.7	257676.226	13344984.35
521	MUL	White Mulberry	Morus alba	1	10.5	0	0	0	0	0	GOOD			2.6	8/9/2021	606.603	4.6	3.7	257686.219	13344987.66
522	MUL	White Mulberry	Morus alba	1	13.4	0	0	0	0	0	FAIR		Structure	3.5	8/9/2021	601.81	5.4	4.4	257698.3	13344988.52
523	BLKC	Black Cherry	Prunus serotina	1	10.1	0	0	0	0	0	GOOD			3	8/9/2021	606.529	2.4	1.9	257642.223	13344993.72
524	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			3.5	8/9/2021	571.216	4	3.4	257643.818	13345011.56
525	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3.5	8/9/2021	593.678	3	2.3	257626.727	13345021.03
526	BLKC	Black Cherry	Prunus serotina	1	11.2	0	0	0	0	0	GOOD			3.2	8/9/2021	603.16	2.1	1.8	257624.029	13345013.07
527	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			13.5	8/9/2021	609.201	4.7	3.1	257604.747	13345019.59
528	MUL	White Mulberry	Morus alba	1	9.9	0	0	0	0	0	GOOD			3.4	8/9/2021	599.54	6	4.9	257674.524	13345023.58
529	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	FAIR		Structure	6.1	8/9/2021	611.049	2.6	1.7	257664.556	13344938.64
530	MUL	White Mulberry	Morus alba	1	14.7	0	0	0	0	0	POOR		Structure, trunk	4.3	8/9/2021	620.609	2.3	1.5	257682.599	13344945.23
531	MUL	White Mulberry	Morus alba	1	10	0	0	0	0	0	GOOD			2.9	8/9/2021	608.461	3.2	2.2	257686.249	13344946.42
532	AELM	American elm	Ulmus americana	1	9.8	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	4.4	8/9/2021	608.921	2.3	1.6	257705.314	13344970.76
533	BLKC	Black Cherry	Prunus serotina	1	9.2	0	0	0	0	0	GOOD			4.2	8/9/2021	609.706	2.5	1.6	257711.547	13344996.59
534	AELM	American elm	Ulmus americana	1	9.4	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	4.4	8/9/2021	616.419	2.8	1.8	257707.612	13344991.11
535	BLKC	Black Cherry	Prunus serotina	1	13.2	0	0	0	0	0	GOOD			4.1	8/9/2021	598.333	6.5	3.8	257724.738	13344988.44
536	BOXE	Box-Elder	Acer negundo	1	11.1	0	0	0	0	0	GOOD			2.9	8/9/2021	587.115	2.6	1.6	257738.77	13344976.65
537	MUL	White Mulberry	Morus alba	1	10.8	0	0	0	0	0	POOR		Structure	2.7	8/9/2021	596.387	1.9	1.7	257709.441	13344960.58
538	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			3.5	8/9/2021	594.588	2.2	1.9	257719.945	13344938.84
539	MUL	White Mulberry	Morus alba	1	12.1	0	0	0	0	0	POOR		Structure	2.5	8/9/2021	606.355	2	1.4	257744.476	13344942.53
540	MUL	White Mulberry	Morus alba	1	10.2	0	0	0	0	0	FAIR		Structure	2.7	8/9/2021	590.889	2.1	1.3	257752.349	13344934.71
541	MUL	White Mulberry	Morus alba	1	8.6	0	0	0	0	0	FAIR		Structure	2.9	8/9/2021	610.386	1.9	1.2	257749.652	13344918.91
542	BOX	Box-Elder	Acer negundo	1	9.1	0	0	0	0	0	GOOD			2.8	8/9/2021	593.38	3.1	2.6	257725.948	13344908.1
543	BLKC	Black Cherry	Prunus serotina	1	9.1	0	0	0	0	0	GOOD			6.1	8/9/2021	613.063	10.9	7.1	257716.689	13344908.74
544	MUL	White Mulberry	Morus alba	1	9	0	0	0	0	0	GOOD			3	8/9/2021	611.567	2.8	1.7	257687.321	13344928.2
545	MUL	White Mulberry	Morus alba	1	18.2	0	0	0	0	0	POOR		Structure	4.3	8/9/2021	616.526	2.4	1.4	257674.581	13344927.94
546	MUL	White Mulberry	Morus alba	1	13	0	0	0	0	0	FAIR		Structure	2.9	8/9/2021	606.867	3.1	1.8	257681.523	13344904.77
547	AELM	American elm	Ulmus americana	1	28.1	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	4	8/9/2021	593.373	2.3	1.7	257708.711	13344904.43
548	MUL	White Mulberry	Morus alba	1	8.6	0	0	0	0	0	GOOD			3.5	8/9/2021	594.04	2.1	1.5	257708.041	13344909.87
549	AELM	American elm	Ulmus americana	1	9.1	0	0	0	0	0	GOOD			3.5	8/9/2021	598.06	1.9	1.3	257721.314	13344904.44
550	BLKC	Black Cherry	Prunus serotina	1	8.5	0	0	0	0	0	GOOD			3	8/9/2021	610.749	2	1.3	257742.116	13344893.47
551	MUL	White Mulberry	Morus alba	1	8.2	0	0	0	0	0	FAIR		Structure	5.6	8/9/2021	592.831	2.5	1.8	257788.224	13344882.16
552	COT	Eastern Cottonwood	Populus deltoides	1	18.4	0	0	0	0	0	FAIR		Structure	3.8	8/9/2021	611.725	4.8	2.8	257801.091	13344915.04
553	AELM	American elm	Ulmus americana	1	8.4	0	0	0	0	0	GOOD			5.6	8/9/2021	596.368	1.7	1.3	257769.576	13344893.24
554	COT	Eastern Cottonwood	Populus deltoides	1	9.6	0	0	0	0	0	GOOD			2.3	8/9/2021	600.142	1.5	1.2	257834.61	13344638.58
555	BOX	Box-Elder	Acer negundo	1	13	12.9	11.5	0	0	0	POOR		Structure	2.7	8/9/2021	595.04	1.6	1.6	257869.618	13344880.45
556	WASH	White Ash	Fraxinus americana	1	10.2	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	3	8/9/2021	597.597	1.5	1.3	257848.3	13344911
557	ACRAB	American crab	Malus coronaria	1	11.2	10.1	0	0	0	0	FAIR		Structure	2.9	8/9/2021	598.229	2	1.5	257846.85	13344915.54
558	BOXE	Box-Elder	Acer negundo	1	10.2	0	0	0	0	0	FAIR		Structure	2.8	8/9/2021	599.785	1.7	1.3	257865.331	13344962.7
559	BOXE	Box-Elder	Acer negundo	1	11.8	0	0	0	0	0	FAIR		Structure	3.4	8/9/2021	600.156	2.4	1.7	257867.238	13344961.98
560	AELM	American elm	Ulmus americana	1	14.2	0	0	0	0	0	FAIR		Structure	4.2	8/9/2021	598.795	2.6	2.1	257810.227	13344962.77
561	SIBE	Siberian elm	Ulmus pumila	1	14.3	0	0	0	0	0	FAIR		Structure	2.7	8/9/2021	597.864	1.5	1.3	257785.866	13344963.33
562	AELM	American elm	Ulmus americana	1	9.2	0	0	0	0	0	POOR		Structure	3	8/9/2021	608.441	2.3	1.9	257781.137	13344972.78
563	SIBE	Siberian elm	Ulmus pumila	1	9.2	0	0	0	0	0	FAIR		Structure	4.3	8/9/2021	602.683	2	1.6	257778.743	13344954.94
564	SIBE	Siberian elm	Ulmus pumila	1	13.6	0	0	0	0	0	POOR		Structure	3.5	8/9/2021	606.424	2.1	1.7	257774.785	13345006.17
565	SIBE	Siberian elm	Ulmus pumila	1	10.2	0	0	0	0	0	FAIR		Structure	3.4	8/9/2021	609.154	3.8	2.5	257789.321	13345027.89
566	BOXE	Box-Elder	Acer negundo	1	8.6	0	0	0	0	0	FAIR		Structure	4.1	8/9/2021	603.131	2.2	2.1	257792.478	13345032.9
567	BOXE	Box-Elder	Acer negundo	1	8.7	0	0	0	0	0	FAIR		Structure	16.7	8/9/2021	601.351	2	1.8	257789.27	13345033.68
568	BOXE	Box-Elder	Acer negundo	1	14.2	0	0	0	0	0	FAIR		Structure	2.9	8/9/2021	600.905	1.8	1.5	257791.378	13345038.04
569	SIBE	Siberian elm	Ulmus pumila	1	8.4	0	0	0	0	0	GOOD			2.9	8/9/2021	598.846	1.8	1.3	257822.564	13345034.23
570	BLKC	Black Cherry	Prunus serotina	1	12.7	0	0	0	0	0	POOR		Structure	2.8	8/9/2021	617.332	2.1	1.7	257880.581	13345022.28
571	BLKL	Black Locust	Robinia pseudoacacia	1	10.9	0	0	0	0	0	FAIR		Structure	2.5	8/9/2021	594.697	1.9	1.6	257907.873	13345040.95
572	BLKL	Black Locust	Robinia pseudoacacia	1	9	0	0	0	0	0	FAIR		Structure	3.7	8/9/2021	595.024	2	1.6	257922.181	13345007.63
573	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			4.7	8/9/2021	597.87	1.7	1.7	257929.647	13344997.2
574	BOXE	Box-Elder	Acer negundo	1	10.7	0	0	0	0	0	GOOD			11.4	8/9/2021	609.5	2.4	1.7	257955.554	13344974.63
575	BOXE	Box-Elder	Acer negundo	1	10.2	9.5	0	0	0	0	GOOD			4.8	8/9/2021	607.43	2.2	1.8	257981.481	13344978.72
576	BOXE	Box-Elder	Acer negundo	1	13.1	0	0	0	0	0	POOR		Structure	3.7	8/9/2021	591.006	2.3	2	257957.794	13344986.78
577	BOXE	Box-Elder	Acer negundo	1	14.2	0	0	0	0	0	FAIR		Structure	141.3	8/9/2021	620.346	5	3.8	257959.253	13345002.54
578	BOXE	Box-Elder	Acer negundo	1	9.3	0	0	0	0	0	FAIR		Structure	3	8/9/2021	602.169	2.4	2.1	257976.625	13345015.36
579	BOXE	Box-Elder	Acer negundo	1	11	0	0	0	0	0	POOR		Structure	3	8/9/2021	595.485	2.4	1.7	257990.536	13345014.35
580	BOXE	Box-Elder	Acer negundo	1	9.1	0	0	0	0	0	GOOD			5.6	8/9/2021	580.524	2.8	2.3	257976.495	13345042.59
581	BOXE	Box-Elder	Acer negundo	1	8.9	0	0	0	0	0	GOOD			2.8	8/9/2021	602.918	3.9	2.8	257980.118	13345044.08
582	BLKC	Black Cherry	Prunus serotina	1	12.3	11.5	8.6	0	0	0	GOOD			3.3	8/9/2021	603.581	3.7	2.9	257983.219	13345032.99
583	BOXE	Box-Elder	Acer negundo	1	13.3	10.3	0	0	0	0	GOOD			5.5	8/9/2021	602.76	2	1.4	257980.824	13345099.81
584	SIBE	Siberian elm	Ulmus pumila	1	10	0	0	0	0	0	GOOD			8.8	8/9/2021	583.803	3.6	2.4	258024.714	13345101.21
585	BOXE	Box-Elder	Acer negundo	1	12.4	0	0	0	0	0	GOOD			3.2	8/9/2021	604.195	2.5	1.8	258021.103	13345074.77
586	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			2.5	8/9/2021	591.569	1.6	1.1	258026.978	13345043.38
587	BOXE	Box-Elder	Acer negundo	1	11.1	0	0	0	0	0	GOOD			2.6	8/9/2021	594.248	2.8	2.3	258024.416	13345053.89
588	BOXE	Box-Elder	Acer negundo	1	9.5	0	0	0	0	0	GOOD			2.9	8/9/2021	600.337	1.6	1.4	258032.588	13345051.48
589	BOXE	Box-Elder	Acer negundo	1	9.6	0	0	0	0	0	FAIR		Structure	3	8/9/2021	596.416	3.4	2.4	258038.359	13345045.16
590	BOXE	Box-Elder	Acer negundo	1	11.3	0	0	0	0	0	GOOD			2.9	8/9/2021	601.724	2.7	1.8	258065.162	13345010.42
591	BOXE	Box-Elder	Acer negundo	1	14.3	0	0	0	0	0	GOOD			6.5	8/9/2021	601.178	2.6	2.1	258100.417	13345052.78
592	BOXE	Box-Elder	Acer negundo	1	9.4	0	0	0	0	0	GOOD			3.3	8/9/2021	607.802	4.8	3.9	258099.866	13345048.57
593	BOXE	Box-Elder	Acer negundo	1	9.3	9.2	0	0	0	0	GOOD			3.7	8/9/2021	601.131	3.8	3.3	258104.606	13345046.95
594	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			2.4	8/9/2021	602.013	3.1	2.1	258100.491	13345050.42
595	COT	Eastern Cottonwood	Populus deltoides	1	10.5	0	0	0	0	0	GOOD			4.7	8/9/2021	603.182	2.1	1.4	258136.533	13345041.52
596	BOXE	Box-Elder	Acer negundo	1	12.7	0	0	0	0	0	GOOD			2.9	8/9/2021	593.944	1.8	1.3	258130.552	13345015.16
597	BOXE	Box-Elder	Acer negundo	1	14.1	0	0	0	0	0	GOOD			2.8	8/9/2021	593.189	1.8	1.3	258135.01	13345047.46
598	BLKL	Black Locust	Robinia pseudoacacia	1	10.3	8	0	0	0	0	FAIR		Structure	3.1	8/9/2021	604.565	2.4	1.6	258136.79	13345042.54
599	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.1	8/9/2021	606.748	2	1.3	258177.62	13345079.92
600	BLKL	Black Locust	Robinia pseudoacacia	1	43	0	0	0	0	0	GOOD			3.7	8/9/2021	593.583	4.6	4.4	258166.057	13345091.17
601	BOXE	Box-Elder	Acer negundo	1	10.5	0	0	0	0	0	GOOD			3.7	8/9/2021	599.528	2.6	1.7	258183.103	13345114.04
602	SIBE	Siberian elm	Ulmus pumila	1	9.5	0	0	0	0	0	GOOD			4.4	8/9/2021	593.56	4.9	2.9	258177.485	13345117.13
603	BLKL	Black Locust	Robinia pseudoacacia	1	13.8	0	0	0	0	0	GOOD			4.3	8/9/2021	607.206	3	2	258191.919	13345073.56
604	SIBE	Siberian elm	Ulmus pumila	1	9.2	0	0	0	0	0	GOOD			2.7	8/9/2021	604.125	1.7	1.1	258187.343	13345103.49
605	BLKL	Black Locust	Robinia pseudoacacia	1	13.2	11.7	0	0	0	0	GOOD			2.7	8/9/2021	600.367	2	1.2	258171.247	13345061.27
606	BLKL	Black Locust	Robinia pseudoacacia	1	15	0	0	0	0	0	GOOD			2.9	8/9/2021	583.686	3.1	2	258148.713	13345037.04
607	BOXE	Box-Elder	Acer negundo	1	10	0	0	0	0	0	GOOD			4.7	8/9/2021	608.988	4.3	2.9	258141.955	13345048.1
608	BLKC	Black Cherry	Prunus serotina	1	28	0	0	0	0	0	GOOD			9.3	8/9/2021	579.448	3.6	3	258151.483	13344981.51
609	SIBE	Siberian elm	Ulmus pumila	1	10.2	9.2	9.1	0	0	0	GOOD			32.5	8/9/2021	619.098	2.1	1.4	258122.682	13344962.18
610	BLKL	Black Locust	Robinia pseudoacacia	1	12.3	0	0	0	0	0	GOOD			24.5	8/9/2021	589.089	4.2	2	258140.863	13344956.5
611	BOXE	Box-Elder	Acer negundo	1	11	8.8	0	0	0	0	FAIR		Structure	3.4	8/9/2021	605.463	2.3	1.5	258103.225	13344950.36
612	BLKC	Black Cherry	Prunus serotina	1	9.2	0	0	0	0	0	GOOD			5.6	8/9/2021	609.771	3.1	2.1	258092.486	13344953.17
613	BLKC	Black Cherry	Prunus serotina	1	10.9	0	0	0	0	0	GOOD			3.3	8/9/2021	617.523	3.1	1.9	258094.282	13344956.79
614	MUL	White Mulberry	Morus alba	1	9.8	0	0	0	0	0	GOOD			5.2	8/9/2021	604.534	4.2	2.5	258046.172	13344964.09
615	MUL	White Mulberry	Morus alba	1	9.4	9.2	0	0	0	0	GOOD			3	8/9/2021	600.073	1.8	1.3	258051.126	13344936.11
616	MUL	White Mulberry	Morus alba	1	12	0	0	0	0	0	GOOD			2.5	8/9/2021	599.552	2.5	1.7	258071.461	13344938.77
617	MUL	White Mulberry	Morus alba	1	11.4	0	0	0	0	0	GOOD			3.4	8/9/2021	595.256	1.9	1.1	258058.052	13344922.86
618	MUL	White Mulberry	Morus alba	1	14.2	0	0	0	0	0	GOOD			2.8	8/9/2021	601.751	2.8	1.9	258051.632	13344911.86
619	SIBE	Siberian elm	Ulmus pumila	1	9.6	0	0	0	0	0	GOOD			3.3	8/9/2021	595.019	2.6	1.6	258029.222	13344912.75
620	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.1	8/9/2021	581.206	3.7	2.6	258020.484	13344903.49
621	AELM	American elm	Ulmus americana	1	13.1	0	0	0	0	0	FAIR		Structure	3.1	8/9/2021	591.563	2.8	1.8	258018.297	13344841.25
622	BLKC	Black Cherry	Prunus serotina	1	9.5	0	0	0	0	0	GOOD			2.6	8/9/2021	599.196	2.3	1.6	258019.031	13344830.16
623	NORWM	Norway Maple	Acer platanoides	1	9.7	0	0	0	0	0	GOOD			3.9	8/9/2021	600.481	3.2	2.2	258051.568	13344818.24
624	BLKC	Black Cherry	Prunus serotina	1	10.2	0	0	0	0	0	GOOD			4.4	8/9/2021	591.597	4.5	3.2	258046.556	13344789.67
625	WASH	White Ash	Fraxinus americana	1	14.5	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	3.1	8/9/2021	598.49	3.2	2.2	258005.564	13344794.67
626	SIBE	Siberian elm	Ulmus pumila	1	9.3	0	0	0	0	0	GOOD			2.3	8/9/2021	620.956	9.1	8.4	258002.668	13344799.96
627	SYC	Sycamore	Platanus occidentalis	1	14.7	0	0	0	0	0	GOOD			2.8	8/9/2021	594.83	4.4	3.5	258019.936	13344792.93
628	COT	Eastern Cottonwood	Populus deltoides	1	16.2	0	0	0	0	0	GOOD			8.2	8/9/2021	594.761	6	4.4	258029.715	13344783.77
629	BLKC	Black Cherry	Prunus serotina	1	10	0	0	0	0	0	GOOD			2.9	8/9/2021	592.771	6.7	5.2	258033.957	13344749.04
630	BLKC	Black Cherry	Prunus serotina	1	8.8	0	0	0	0	0	GOOD			3	8/9/2021	614.677	4	2.9	258011.756	13344737.62
631	BLKC	Black Cherry	Prunus serotina	1	13.2	0	0	0	0	0	GOOD			3	8/9/2021	600.987	8.6	6.1	258018.618	13344730.52
632	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3.4	8/9/2021	594.015	3.3	2.4	258008.167	13344716.91
633	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3	8/9/2021	595.084	2.3	1.8	257997.416	13344720.39
634	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3.8	8/9/2021	602.743	3.6	3	258000.636	13344730.39
635	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.9	8/9/2021	602.155	3.5	2.8	257985.792	13344716.27
636	SIBE	Siberian elm	Ulmus pumila	1	16.2	12.1	0	0	0	0	GOOD			3	8/11/2021	605.455	1.8	1.7	257823.739	13344709.09
637	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3	8/11/2021	607.858	2.3	2.2	257850.007	13344110.5
638	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			2.9	8/11/2021	606.088	1.7	1.8	257848.176	13344114.86
639	BLKC	Black Cherry	Prunus serotina	1	12.1	0	0	0	0	0	GOOD			2.8	8/11/2021	608.579	2.8	2.5	257852.738	13344107.02
640	BLKL	Black Locust	Robinia pseudoacacia	1	14.1	0	0	0	0	0	FAIR		Structure	3.1	8/11/2021	609.993	2.1	2	257871.804	13344099.93
641	BOXE	Box-Elder	Acer negundo	1	12.5	10.3	9.3	8.7	0	0	GOOD			3	8/11/2021	605.348	1.9	1.5	257881.149	13344084.84
642	BLKL	Black Locust	Robinia pseudoacacia	1	13.7	0	0	0	0	0	GOOD			3	8/11/2021	617.12	4.2	4.1	257876.483	13344102.36
643	SIBE	Siberian elm	Ulmus pumila	1	8.3	8.1	8	0	0	0	GOOD			4.1	8/11/2021	622.925	2.7	2.5	257846.298	13344141.96
644	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3.7	8/11/2021	613.463	2.7	2.8	257850.147	13344145.78
645	BLKL	Black Locust	Robinia pseudoacacia	1	8.8	0	0	0	0	0	FAIR		Structure	12.9	8/11/2021	621.706	2.9	2.6	257865.516	13344172.02
646	BLKL	Black Locust	Robinia pseudoacacia	1	8.8	0	0	0	0	0	GOOD			2.9	8/11/2021	616.901	2.8	2.9	257865.743	13344161.31
647	SIBE	Siberian elm	Ulmus pumila	1	16.4	0	0	0	0	0	GOOD			6.1	8/11/2021	600.394	2.3	1.9	257882.602	13344156.16

TREE REMOVAL LEGEND

~~00~~ INDICATES EXISTING TREE TO BE REMOVED

00 INDICATES EXISTING TREE TO REMAIN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
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SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Tree List

Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: M. Carnaghi

DESIGNED BY:

APPROVED BY: K. Navaroli

DATE: September 24, 2021

SCALE: N.T.S.

NFE JOB NO. M278-01

SHEET NO. SP 1.23

648	BLKL	Black Locust	Robinia pseudoacacia	1	16.2	0	0	0	0	0	FAIR		Structure	6.1	8/11/2021	616.612	5.1	5.1	257872.726	13344154.91
649	BLKL	Black Locust	Robinia pseudoacacia	1	9	0	0	0	0	0	GOOD			2.7	8/11/2021	624.311	4.9	4.4	257856.621	13344157.72
650	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3	8/11/2021	616.983	3.7	3.7	257848.003	13344174.13
651	BLKL	Black Locust	Robinia pseudoacacia	1	14.4	0	0	0	0	0	GOOD			3	8/11/2021	610.914	2.2	1.9	257848.134	13344184.24
652	BLKL	Black Locust	Robinia pseudoacacia	1	13.1	0	0	0	0	0	GOOD			3.2	8/11/2021	616.803	3.5	3.8	257855.896	13344176.65
653	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3.1	8/11/2021	621.604	5.5	5.1	257854.302	13344173.33
654	MUL	White Mulberry	Morus alba	1	9.3	0	0	0	0	0	GOOD			141.3	8/11/2021	610.326	2	1.9	257857.227	13344176.86
655	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	GOOD			2.9	8/11/2021	609.442	1.8	1.6	257842.502	13344192.82
656	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			2.8	8/11/2021	616.348	1.9	1.7	257854.089	13344189.98
657	BLKL	Black Locust	Robinia pseudoacacia	1	15.7	0	0	0	0	0	GOOD			2.9	8/11/2021	611.585	2.8	2.5	257869.122	13344200.98
658	BLKL	Black Locust	Robinia pseudoacacia	1	9.9	0	0	0	0	0	GOOD			3	8/11/2021	610.008	1.9	2.1	257864.969	13344213.03
659	BLKL	Black Locust	Robinia pseudoacacia	1	8.3	0	0	0	0	0	GOOD			3.4	8/11/2021	610.903	3.2	3.1	257863.44	13344218.76
660	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			2.9	8/11/2021	609.523	1.6	1.5	257844.4	13344219.31
661	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	GOOD			2.8	8/11/2021	628.605	2.7	2.6	257850.159	13344219.5
662	SIBE	Siberian elm	Ulmus pumila	1	9	0	0	0	0	0	GOOD			8.3	8/11/2021	626.919	2.4	2.3	257864.087	13344231.09
663	SIBE	Siberian elm	Ulmus pumila	1	8	0	0	0	0	0	GOOD			2.9	8/11/2021	610.864	3	2.2	257894.371	13344254.53
664	BOXE	Box-Elder	Acer negundo	1	9	0	0	0	0	0	POOR		Structure	3	8/11/2021	610.342	1.7	1.6	257919.895	13344240.15
665	BOXE	Box-Elder	Acer negundo	1	8.9	0	0	0	0	0	POOR		Structure	3.4	8/11/2021	626.552	2.3	2	257890.872	13344230.15
666	SIBE	Siberian elm	Ulmus pumila	1	23.5	0	0	0	0	0	GOOD			3	8/11/2021	609.214	4.4	4	257910.594	13344222.57
667	BLKL	Black Locust	Robinia pseudoacacia	1	12.7	0	0	0	0	0	FAIR		Structure	2.8	8/11/2021	607.106	2.1	1.9	257884.162	13344211.81
668	BLKL	Black Locust	Robinia pseudoacacia	1	11.7	0	0	0	0	0	GOOD			4.8	8/11/2021	608.137	3.3	2.9	257886.508	13344193.37
669	BLKL	Black Locust	Robinia pseudoacacia	1	9.9	0	0	0	0	0	GOOD			3.3	8/11/2021	610.241	2.2	2	257894.26	13344184.68
670	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3.4	8/11/2021	607.984	2.8	2.6	257900.297	13344180
671	BLKL	Black Locust	Robinia pseudoacacia	1	19.5	0	0	0	0	0	GOOD			6.3	8/11/2021	597.844	1.9	1.7	257887.068	13344179.67
672	BLKL	Black Locust	Robinia pseudoacacia	1	9.2	0	0	0	0	0	GOOD			2.9	8/11/2021	611.29	1.8	1.5	257888.587	13344169.77
673	BOXE	Box-Elder	Acer negundo	1	10	0	0	0	0	0	GOOD			5	8/11/2021	601.12	2.1	1.9	257912.169	13344170.3
674	SIBE	Siberian elm	Ulmus pumila	1	15.1	0	0	0	0	0	GOOD			3.3	8/11/2021	595.583	2.8	2.4	257906.313	13344147.04
675	BOXE	Box-Elder	Acer negundo	1	9.1	6.7	0	0	0	0	GOOD			9.4	8/11/2021	617.577	2.2	1.8	257924.08	13344165.79
676	BLKL	Black Locust	Robinia pseudoacacia	1	14.7	0	0	0	0	0	GOOD			3.5	8/11/2021	610.296	2.8	2.6	257937.208	13344192.17
677	BLKC	Black Cherry	Prunus serotina	1	12.1	0	0	0	0	0	GOOD			3	8/11/2021	606.121	2.3	1.7	257957.001	13344190.96
678	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			4.1	8/11/2021	606.205	1.9	1.8	257936.701	13344191.58
679	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			5	8/11/2021	612.008	2.3	1.7	257941.046	13344169.83
680	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3	8/11/2021	614.903	2	1.4	257936.602	13344157.6
681	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	GOOD			3.4	8/11/2021	604.225	2.2	1.8	257936.578	13344159.81
682	BLKL	Black Locust	Robinia pseudoacacia	1	8.5	0	0	0	0	0	GOOD			3.7	8/11/2021	607.286	1.9	1.3	257943.757	13344152.77
683	BLKL	Black Locust	Robinia pseudoacacia	1	10.1	0	0	0	0	0	GOOD			3.9	8/11/2021	611.892	5	4.3	257945.429	13344154.05
684	BLKL	Black Locust	Robinia pseudoacacia	1	8.5	0	0	0	0	0	GOOD			3.5	8/11/2021	610.321	1.8	1.4	257939.418	13344154.84
685	BLKL	Black Locust	Robinia pseudoacacia	1	10.9	0	0	0	0	0	GOOD			3.8	8/11/2021	590.272	2.2	1.7	257948.684	13344148.13
686	BLKL	Black Locust	Robinia pseudoacacia	1	9.3	0	0	0	0	0	GOOD			4.3	8/11/2021	601.763	2.6	2.1	257936.312	13344143.43
687	SIBE	Siberian elm	Ulmus pumila	1	10.5	0	0	0	0	0	GOOD			2.8	8/11/2021	609.265	2.1	1.4	257959.753	13344127.03
688	BLKC	Black Cherry	Prunus serotina	1	16	0	0	0	0	0	GOOD			6	8/11/2021	584.821	4	2.7	257970.426	13344125.99
689	BLKL	Black Locust	Robinia pseudoacacia	1	11.6	0	0	0	0	0	FAIR		Structure	2.9	8/11/2021	616.39	5.9	4.4	257906.714	13344125.34
690	SIBE	Siberian elm	Ulmus pumila	1	11.2	0	0	0	0	0	GOOD			3.7	8/11/2021	603.769	1.7	1.2	257899.842	13344152.78
~~691~~	POAK	Pin Oak	Quercus palustris	1	12	0	0	0	0	0	GOOD			6	8/11/2021	605.369	2.3	1.8	257932.369	13344271.8
~~692~~	BLKC	Black Cherry	Prunus serotina	1	10	0	0	0	0	0	GOOD			3	8/11/2021	608.741	2.2	1.4	257965.105	13344339.22
~~693~~	POAK	Pin Oak	Quercus palustris	1	11.6	0	0	0	0	0	GOOD			2.7	8/11/2021	602.813	2.1	1.2	257982.598	13344327.79
~~694~~	SIBE	Siberian elm	Ulmus pumila	1	15.5	0	0	0	0	0	GOOD			4.8	8/11/2021	601.478	2.3	1.4	257895.607	13344364.44
~~695~~	SIBE	Siberian elm	Ulmus pumila	1	22.1	0	0	0	0	0	GOOD			3.1	8/11/2021	591.728	2.1	1.4	257896.669	13344370.47
~~696~~	BLKC	Black Cherry	Prunus serotina	1	9.6	0	0	0	0	0	GOOD			4	8/11/2021	612.032	2.4	1.4	257910.146	13344372.62
~~697~~	BURO	Bur Oak	Quercus macrocarpa	1	14.2	0	0	0	0	0	GOOD			3.7	8/11/2021	603.703	2.4	1.4	257932.763	13344374.39
~~698~~	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			4	8/11/2021	609.673	2.7	1.7	257937.564	13344367.67
~~699~~	BLKC	Black Cherry	Prunus serotina	1	10.2	0	0	0	0	0	GOOD			2.9	8/11/2021	599.655	2.2	1.3	257861.678	13344360.3
~~700~~	MUL	White Mulberry	Morus alba	1	10.5	0	0	0	0	0	FAIR		Structure	2.9	8/11/2021	592.068	1.7	1.5	257869.203	13344387.66
~~701~~	HACB	Hackberry	Celtis occidentalis	1	9.9	0	0	0	0	0	GOOD			5.4	8/11/2021	604.403	1.7	1.4	257895.853	13344473.14
~~702~~	HACB	Hackberry	Celtis occidentalis	1	12.9	12.2	0	0	0	0	GOOD			7.6	8/11/2021	617.556	2.5	2.1	257901.699	13344525.99
~~703~~	BLKC	Black Cherry	Prunus serotina	1	10.5	0	0	0	0	0	GOOD			5.8	8/11/2021	601.523	2.4	2.4	257907.766	13344521.87
~~704~~	COT	Eastern Cottonwood	Populus deltoides	1	9.9	0	0	0	0	0	GOOD			3	8/11/2021	608.127	2.6	2.1	257923.484	13344516.66
~~705~~	SIBE	Siberian elm	Ulmus pumila	1	9.2	0	0	0	0	0	GOOD			10.5	8/11/2021	598.03	1.9	1.9	257922.433	13344512.99
~~706~~	AELM	American elm	Ulmus americana	1	10.2	0	0	0	0	0	GOOD			2.9	8/11/2021	605.932	1.7	1.5	257936.735	13344521.94
~~707~~	MUL	White Mulberry	Morus alba	1	10	0	0	0	0	0	GOOD			4	8/11/2021	611.506	2.2	1.8	257966.061	13344516.38
~~708~~	MUL	White Mulberry	Morus alba	1	8.2	0	0	0	0	0	GOOD			3	8/11/2021	595.703	1.7	1.4	258002.782	13344500.65
~~709~~	BLKC	Black Cherry	Prunus serotina	1	12.6	0	0	0	0	0	GOOD			2.9	8/11/2021	603.373	2.1	1.9	257996.938	13344481.06
~~710~~	BLKC	Black Cherry	Prunus serotina	1	9.3	8.2	0	0	0	0	GOOD			3	8/11/2021	601.93	1.7	1.5	258006.118	13344467.84
~~711~~	BLKC	Black Cherry	Prunus serotina	1	12.2	0	0	0	0	0	GOOD			3.5	8/11/2021	604.115	1.8	1.3	258018.967	13344450.41
~~712~~	BLKC	Black Cherry	Prunus serotina	1	12.2	0	0	0	0	0	GOOD			2.9	8/11/2021	602.917	2.6	2.1	258017.237	13344430.51
~~713~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	10.6	10.4	0	0	0	GOOD			3.5	8/11/2021	602.224	2.9	2.3	258042.493	13344399.09
~~714~~	SIBE	Siberian elm	Ulmus pumila	1	13.7	0	0	0	0	0	GOOD			3.3	8/11/2021	624.301	2.9	2.2	257982.28	13344386.92
~~715~~	BLKC	Black Cherry	Prunus serotina	1	12.1	0	0	0	0	0	GOOD			2.8	8/11/2021	606.232	2.1	1.6	257973.588	13344372.33
~~716~~	ACRAB	American crab	Malus coronaria	1	10.2	0	0	0	0	0	FAIR		Structure	3.3	8/11/2021	603.475	1.8	1.5	258014.992	13344372.15
~~717~~	MUL	White Mulberry	Morus alba	1	12.2	0	0	0	0	0	GOOD			3	8/11/2021	605.642	2	1.5	258027.3	13344452.49
~~718~~	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			3	8/11/2021	595.777	2.7	2.2	257967.532	13344515.23
~~719~~	BLKC	Black Cherry	Prunus serotina	1	8.8	0	0	0	0	0	GOOD			4.2	8/11/2021	609.944	2.9	2.1	257987.09	13344548.05
~~720~~	BLKC	Black Cherry	Prunus serotina	1	9.3	0	0	0	0	0	GOOD			4.2	8/11/2021	606.777	2.8	2.3	257880.696	13344556.54
~~721~~	BLKL	Black Locust	Robinia pseudoacacia	1	13.1	0	0	0	0	0	GOOD			3.5	8/11/2021	608.208	2.9	2.5	257875.932	13344553.78
~~722~~	BLKL	Black Locust	Robinia pseudoacacia	1	14.4	0	0	0	0	0	GOOD			3	8/11/2021	608.218	2.6	2.1	257875.745	13344602.32
~~723~~	COT	Eastern Cottonwood	Populus deltoides	1	9.2	0	0	0	0	0	GOOD			3	8/11/2021	609.931	1.9	1.5	257888.73	13344601.78
~~724~~	COT	Eastern Cottonwood	Populus deltoides	1	19.2	16	0	0	0	0	GOOD			14.6	8/11/2021	617.884	2.4	2	257848.118	13344616.23
~~725~~	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			5.1	8/11/2021	613.877	1.7	1.4	257831.385	13344578.75
~~726~~	COT	Eastern Cottonwood	Populus deltoides	1	16.3	0	0	0	0	0	GOOD			5.6	8/11/2021	617.196	2.8	2.2	257826.289	13344582.45
~~727~~	COT	Eastern Cottonwood	Populus deltoides	1	14.4	0	0	0	0	0	GOOD			3.9	8/11/2021	604.873	7.7	6.5	257847.966	13344580.86
~~728~~	COT	Eastern Cottonwood	Populus deltoides	1	17.2	0	0	0	0	0	GOOD			3.6	8/11/2021	603.161	2.4	1.9	257835.974	13344591.75
~~729~~	COT	Eastern Cottonwood	Populus deltoides	1	22.2	20.9	0	0	0	0	GOOD			4.2	8/11/2021	583.687	2.4	2	257842.383	13344570.2
~~730~~	COT	Eastern Cottonwood	Populus deltoides	1	23.3	0	0	0	0	0	GOOD			3	8/11/2021	608.463	4.6	4	257823.539	13344583.9
~~731~~	COT	Eastern Cottonwood	Populus deltoides	1	24.5	0	0	0	0	0	GOOD			5	8/11/2021	610.98	4.6	3	257839.023	13344607.17
~~732~~	MUL	White Mulberry	Morus alba	1	12.4	0	0	0	0	0	GOOD			3.3	8/11/2021	612.35	2	1.5	257814.948	13344606.47
~~733~~	COT	Eastern Cottonwood	Populus deltoides	1	12.1	0	0	0	0	0	GOOD			4.2	8/11/2021	608.18	2.2	1.8	257844.832	13344598.58
~~734~~	COT	Eastern Cottonwood	Populus deltoides	1	20.8	0	0	0	0	0	GOOD			5.8	8/11/2021	588.785	4.3	3.3	257854.598	13344608.59
~~735~~	ACRAB	American crab	Malus coronaria	1	15.2	0	0	0	0	0	GOOD			4.4	8/11/2021	588.955	2.2	2.1	257879.576	13344641.55
~~736~~	BLKC	Black Cherry	Prunus serotina	1	22.8	0	0	0	0	0	GOOD			4.7	8/11/2021	562.437	3.3	2.4	257988.404	13344667.05
~~737~~	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			2.9	8/11/2021	598.039	2.3	1.8	257982.964	13344686
~~738~~	CEDAR	Red-Cedar	Juniperus virginiana	1	8.6	0	0	0	0	0	FAIR		Structure	2.9	8/11/2021	591.106	2.1	1.3	257901.432	13344615.06
~~739~~	AELM	American elm	Ulmus americana	1	10.7	0	0	0	0	0	GOOD			3	8/11/2021	600.879	2.6	1.8	257894.076	13344631.34
~~740~~	MUL	White Mulberry	Morus alba	1	11.1	0	0	0	0	0	GOOD			5.5	8/11/2021	604.403	2.3	1.9	257923.289	13344634.39
~~741~~	NORWM	Norway Maple	Acer platanoides	1	14.1	0	0	0	0	0	GOOD			3.3	8/11/2021	574.064	4	2.8	258023.351	13344582.88
~~742~~	AELM	American elm	Ulmus americana	1	19	0	0	0	0	0	POOR		Structure	3	8/11/2021	591.926	1.8	1.5	258031.562	13344688.68
~~743~~	WASH	White Ash	Fraxinus americana	1	9.2	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	3	8/11/2021	596.064	2.3	1.8	258050.033	13344703.5
~~744~~	BLKC	Black Cherry	Prunus serotina	1	10.3	9	0	0	0	0	POOR		Structure	16.8	8/11/2021	607.265	2.7	1.8	258016.722	13344675.34
~~745~~	BLKC	Black Cherry	Prunus serotina	1	9.1	0	0	0	0	0	GOOD			2.9	8/11/2021	599.947	1.8	1.4	258062.94	13344660.56
~~746~~	BOXE	Box-Elder	Acer negundo	1	11.3	0	0	0	0	0	GOOD			3	8/11/2021	597.355	2.2	1.7	258070.888	13344726.77
~~747~~	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			2.9	8/11/2021	601.827	1.8	1.4	258094.586	13344716.67
~~748~~	BLKC	Black Cherry	Prunus serotina	1	15.2	0	0	0	0	0	GOOD			2.9	8/11/2021	593.69	2.8	2	258097.645	13344705.87
~~749~~	BLKC	Black Cherry	Prunus serotina	1	12.6	0	0	0	0	0	GOOD			3	8/11/2021	597.313	2.4	1.8	258082.19	13344703.13
~~750~~	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			2.9	8/11/2021	597.814	2	1.5	258097.86	13344719.54
~~751~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.7	11.3	10.6	0	0	0	FAIR		Structure	3	8/11/2021	593.417	2.4	1.6	258102.171	13344730.22
~~752~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.2	0	0	0	0	0	GOOD			3.7	8/11/2021	598.02	1.7	1.1	258114.841	13344732.89
~~753~~	BLKL	Black Locust	Robinia pseudoacacia	1	12.7	0	0	0	0	0	GOOD			3.8	8/11/2021	612.428	2	1.3	258126.104	13344731.14
~~754~~	SIBE	Siberian elm	Ulmus pumila	1	8.1	8	8	0	0	0	POOR		Structure	2.7	8/11/2021	588.252	2.2	1.4	258147.608	13344727.51
~~755~~	NORWM	Norway Maple	Acer platanoides	1	12.2	0	0	0	0	0	GOOD			3.2	8/11/2021	594.359	2.1	1.7	258131.89	13344775.26
~~756~~	WASH	White Ash	Fraxinus americana	1	11.8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.2	8/11/2021	608.266	3.8	2.3	258107.411	13344786.8
~~757~~	BOXE	Box-Elder	Acer negundo	1	12.3	0	0	0	0	0	FAIR		Structure	3.1	8/13/2021	603.418	1.9	1.4	258097.308	13344772.67
~~758~~	BOXE	Box-Elder	Acer negundo	1	8.2	0	0	0	0	0	GOOD			2.9	8/13/2021	592.416	1.8	1.3	258182.694	13344821.7
~~759~~	WASH	White Ash	Fraxinus americana	1	12.3	12.1	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.3	8/13/2021	550.893	7.1	4.6	258179.878	13344916.64
~~760~~	SIBE	Siberian elm	Ulmus pumila	1	10.5	0	0	0	0	0	POOR		Structure	2.7	8/13/2021	590.653	1.9	1.3	258171.25	13344916.45
~~761~~	SIBE	Siberian elm	Ulmus pumila	1	11.6	0	0	0	0	0	GOOD			3	8/13/2021	585.893	2.2	1.6	258169.521	13344915.23
~~762~~	COT	Eastern Cottonwood	Populus deltoides	1	25.6	0	0	0	0	0	GOOD			3	8/13/2021	596.808	1.9	1.3	258131.974	13344881.75
~~763~~	BOXE	Box-Elder	Acer negundo	1	13.5	0	0	0	0	0	FAIR		Structure	4.9	8/13/2021	590.492	5.8	4.5	258108.454	13344869.48
~~764~~	BOXE	Box-Elder	Acer negundo	1	10.3	0	0	0	0	0	GOOD			3.1	8/13/2021	597.11	3.5	2.8	258095.622	13344867.57
~~765~~	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			3	8/13/2021	596.546	1.9	1.4	258086.322	13344854.83
~~766~~	BLKC	Black Cherry	Prunus serotina	1	10.2	0	0	0	0	0	GOOD			2.8	8/13/2021	591.429	1.8	1.6	258235.267	13344932.56
~~767~~	WASH	White Ash	Fraxinus americana	1	11.3	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.3	8/13/2021	580.948	2.7	2.3	258255.722	13344982.5
~~768~~	WASH	White Ash	Fraxinus americana	1	9.5	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.7	8/13/2021	570.058	3.9	4	258284.844	13345087.29
~~769~~	MUL	White Mulberry	Morus alba	1	16.7	16.4	0	0	0	0	GOOD			6.3	8/13/2021	609.16	2.5	2.2	258263.877	13345114.47
~~770~~	MUL	White Mulberry	Morus alba	1	10.9	0	0	0	0	0	GOOD			141.3	8/13/2021	564.355	4.2	3.5	258284.022	13345121.49
~~771~~	COT	Eastern Cottonwood	Populus deltoides	1	20.1	0	0	0	0	0	GOOD			2.7	8/13/2021	613.615	4.4	3.7	258313.469	13345084.32
~~772~~	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			3.1	8/13/2021	592.531	2.6	2.6	258317.163	13345062.88
~~773~~	COT	Eastern Cottonwood	Populus deltoides	1	16.3	0	0	0	0	0	GOOD			5.6	8/13/2021	611.128	3.5	3.7	258344.263	13345030.23
~~774~~	COT	Eastern Cottonwood	Populus deltoides	1	18.2	0	0	0	0	0	GOOD			3.4	8/13/2021	606.583	4.8	4.3	258343.772	13345056.28
~~775~~	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			7.5	8/13/2021	606.309	4.7	4.2	258328.197	13345043.04
~~776~~	COT	Eastern Cottonwood	Populus deltoides	1	18.3	0	0	0	0	0	GOOD			4.5	8/13/2021	607.499	5.6	4.5	258352.241	13345028.16
~~777~~	COT	Eastern Cottonwood	Populus deltoides	1	17.2	0	0	0	0	0	GOOD			5.8	8/13/2021	616.484	6.4	6	258341.161	13345050.48
~~778~~	COT	Eastern Cottonwood	Populus deltoides	1	18.4	0	0	0	0	0	GOOD			3	8/13/2021	579.383	4.2	3.2	258346.818	13345036.92
~~779~~	TILIA	Basswood	Tilia americana	1	8.7	0	0	0	0	0	GOOD			3	8/13/2021	588.53	2.1	2	258319.875	13345031.33
~~780~~	BLKW	Black Walnut	Juglans nigra	1	9.7	0	0	0	0	0	GOOD			4.3	8/13/2021	600.152	2.4	1.8	258310.747	13345019.64
~~781~~	COT	Eastern Cottonwood	Populus deltoides	1	23.4	0	0	0	0	0	GOOD			7.5	8/13/2021	594.087	4.2	3.7	258333.469	13344997.43
~~782~~	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			2.8	8/13/2021	594.636	1.8	1.7	258354.413	13344984.73
~~783~~	BLKC	Black Cherry	Prunus serotina	1	12.7	0	0	0	0	0	GOOD			3.8	8/13/2021	584.552	2.1	1.9	258347.273	13344966.23
~~784~~	BLKC	Black Cherry	Prunus serotina	1	8.8	0	0	0	0	0	GOOD			3.4	8/13/2021	588.5	2.4	2.1	258374.014	13344915.92
~~785~~	ACRAB	American crab	Malus coronaria	1	8.1	0	0	0	0	0	GOOD			3	8/13/2021	591.661	1.6	1.5	258359.293	13344901.15
~~786~~	WASH	White Ash	Fraxinus americana	1	11.3	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.8	8/13/2021	587.946	2.4	2	258342.38	13344899.37
~~787~~	BLKC	Black Cherry	Prunus serotina	1	11	9.1	0	0	0	0	GOOD			2.9	8/13/2021	585.321	1.8	2	258321.511	13344893.54
~~788~~	COT	Eastern Cottonwood	Populus deltoides	1	12.6	0	0	0	0	0	GOOD			2.3	8/13/2021	598.68	1.7	1.6	258309.65	13344903.28
~~789~~	WASH	White Ash	Fraxinus americana	1	8.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	5.9	8/13/2021	591.619	1.9	2.1	258387.311	13344847.81
~~790~~	COT	Eastern Cottonwood	Populus deltoides	1	9.8	0	0	0	0	0	GOOD			2.9	8/13/2021	585.788	2.3	2.1	258399.353	13344872.26
~~791~~	AELM	American elm	Ulmus americana	1	13.1	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.9	8/13/2021	581.435	1.8	1.4	258407.094	13344877.13
~~792~~	SILM	Silver Maple	Acer saccharinum	1	20.5	0	0	0	0	0	GOOD			3.5	8/13/2021	580.728	2.1	1.6	258411.473	13344880.68
~~793~~	PLOM	Lombardy Poplar	Populus nigra	1	8.3	0	0	0	0	0	POOR		Structure	3.4	8/13/2021	585.68	1.8	1.6	258354.152	13344775.93
~~794~~	PLOM	Lombardy Poplar	Populus nigra	1	8.4	0	0	0	0	0	GOOD			3	8/13/2021	578.481	2	1.9	258350.728	13344768.2
~~795~~	PLOM	Lombardy Poplar	Populus nigra	1	11.2	0	0	0	0	0	POOR		Structure	3.1	8/13/2021	598.065	1.7	1.3	258345.525	13344770.58
~~796~~	PLOM	Lombardy Poplar	Populus nigra	1	17.4	0	0	0	0	0	POOR		Structure	3.4	8/13/2021	552.341	5.7	4.6	258335.788	13344745.89
~~797~~	PLOM	Lombardy Poplar	Populus nigra	1	13.2	11	0	0	0	0	POOR		Structure	2.9	8/13/2021	600.398	2.3	1.9	258328.88	13344750.21
~~798~~	PLOM	Lombardy Poplar	Populus nigra	1	14	0	0	0	0	0	POOR		Structure	4.6	8/13/2021	592.219	2.8	2.3	258326.869	13344785.96
~~799~~	AELM	American elm	Ulmus americana	1	9.8	0	0	0	0	0	GOOD			2.8	8/13/2021	557.873	2.5	1.9	258366.795	13344762.33
~~800~~	PLOM	Lombardy Poplar	Populus nigra	1	9.2	0	0	0	0	0	GOOD			3.2	8/13/2021	595.639	1.9	1.7	258338.915	13344737.99
~~801~~	COT	Eastern Cottonwood	Populus deltoides	1	29.7	0	0	0	0	0	FAIR		Structure, TRUNK FAILURE	3.4	8/13/2021	605.939	2	1.4	258312.707	13344720.68
~~802~~	HACB	Hackberry	Celtis occidentalis	1	9.2	0	0	0	0	0	GOOD			3.4	8/13/2021	600.511	2	1.4	258322.861	13344724.9
~~803~~	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	POOR		TRUNK LEAN	2.4	8/13/2021	594.563	1.9	1.4	258308.469	13344690.16
~~804~~	BLKC	Black Cherry	Prunus serotina	1	9.3	0	0	0	0	0	GOOD			3.5	8/13/2021	587.938	1.7	1.5	258317.24	13344692.33
~~805~~	BLKC	Black Cherry	Prunus serotina	1	8.8	0	0	0	0	0	GOOD			3	8/13/2021	613.668	2.2	1.5	258316.88	13344677.84
~~806~~	BLKC	Black Cherry	Prunus serotina	1	11.1	0	0	0	0	0	GOOD			3.4	8/13/2021	586.443	2.7	2.6	258329.626	13344675.69
~~807~~	ACRAB	American crab	Malus coronaria	1	9.1	0	0	0	0	0	GOOD			3.6	8/13/2021	602.131	2.1	1.6	258308.682	13344683.87
~~808~~	BLKC	Black Cherry	Prunus serotina	1	11.3	0	0	0	0	0	GOOD			3.7	8/13/2021	562.161	12.2	7.6	258328.228	13344664.67
~~809~~	BLKC	Black Cherry	Prunus serotina	1	11.1	0	0	0	0	0	GOOD			4.7	8/13/2021	587.796	2.5	1.7	258316.581	13344639.37

~~810~~	COT	Eastern Cottonwood	Populus deltoides	1	14.8	0	0	0	0	0	GOOD			3	8/13/2021	599.268	6.6	4.8	258272.717	13344610.84
~~811~~	MUL	White Mulberry	Morus alba	1	11.5	11.4	0	0	0	0	GOOD			3.4	8/13/2021	611.251	7.3	5.2	258283.688	13344641.97
~~812~~	MUL	White Mulberry	Morus alba	1	13.2	12.1	0	0	0	0	GOOD			4.2	8/13/2021	598.872	3.3	2.7	258288.231	13344649.37
~~813~~	MUL	White Mulberry	Morus alba	1	9.8	0	0	0	0	0	GOOD			4.2	8/13/2021	598.886	7.2	4.4	258288.967	13344681.06
~~814~~	MUL	White Mulberry	Morus alba	1	10.7	0	0	0	0	0	GOOD			3.9	8/13/2021	595.126	3.1	1.9	258252.167	13344656.41
~~815~~	POAK	Pin Oak	Quercus palustris	1	8.3	0	0	0	0	0	GOOD			3.9	8/13/2021	600.275	2.9	1.7	258247.183	13344689.41
~~816~~	BOXE	Box-Elder	Acer negundo	1	9.7	0	0	0	0	0	GOOD			3.8	8/13/2021	587.283	2.7	1.7	258253.46	13344705.45
~~817~~	MUL	White Mulberry	Morus alba	1	14.3	0	0	0	0	0	GOOD			3.7	8/13/2021	600.743	2.5	1.5	258226.987	13344705.72
~~818~~	BLKC	Black Cherry	Prunus serotina	1	11.2	0	0	0	0	0	GOOD			2.8	8/13/2021	614.287	3.3	1.9	258190.578	13344731.22
~~819~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.8	8/13/2021	588.796	1.8	1.1	258230.467	13344765.89
~~820~~	AELM	American elm	Ulmus americana	1	12.7	1.2	0	0	0	0	GOOD			2.7	8/13/2021	592.359	2.2	1.3	258259.886	13344774.97
~~821~~	BLKL	Black Locust	Robinia pseudoacacia	1	8.7	0	0	0	0	0	GOOD			3.4	8/13/2021	587.288	4.7	2.9	258250.652	13344658.38
~~822~~	BLKL	Black Locust	Robinia pseudoacacia	1	18.2	0	0	0	0	0	GOOD			3	8/13/2021	599.757	2.1	1.3	258254.23	13344632.81
~~823~~	BLKL	Black Locust	Robinia pseudoacacia	1	13.3	0	0	0	0	0	GOOD			2.6	8/13/2021	598.514	2	1.2	258261.279	13344627.7
~~824~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.2	0	0	0	0	0	GOOD			3.8	8/13/2021	589.522	2.2	1.3	258247.145	13344626.84
~~825~~	BLKL	Black Locust	Robinia pseudoacacia	1	9.2	0	0	0	0	0	GOOD			6.2	8/13/2021	596.261	2.9	1.7	258239.678	13344617.75
~~826~~	BLKL	Black Locust	Robinia pseudoacacia	1	16.2	0	0	0	0	0	GOOD			2.9	8/13/2021	586	2.3	1.6	258249.25	13344610.46
~~827~~	BLKL	Black Locust	Robinia pseudoacacia	1	12.4	0	0	0	0	0	GOOD			5.5	8/13/2021	591.288	3.6	2	258253.222	13344604.74
~~828~~	BLKL	Black Locust	Robinia pseudoacacia	1	9	0	0	0	0	0	GOOD			3	8/13/2021	590.187	1.9	1.5	258243.605	13344589.09
~~829~~	BLKL	Black Locust	Robinia pseudoacacia	1	11	0	0	0	0	0	GOOD			2.9	8/13/2021	588.276	1.8	1.4	258220.888	13344612.64
~~830~~	BLKC	Black Cherry	Prunus serotina	1	9.4	0	0	0	0	0	GOOD			3	8/13/2021	592.853	1.9	1.3	258208.75	13344640.64
~~831~~	BLKW	Black Walnut	Juglans nigra	1	9.9	0	0	0	0	0	GOOD			2.8	8/13/2021	584.662	2.5	1.6	258187.34	13344649.65
~~832~~	WASH	White Ash	Fraxinus americana	1	8.5	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.2	8/13/2021	591.5	2	1.3	258174.948	13344642.88
~~833~~	MUL	White Mulberry	Morus alba	1	9.8	9.5	9.4	0	0	0	FAIR			6.8	8/13/2021	600.876	1.9	1.2	258148.96	13344625.26
~~834~~	WASH	White Ash	Fraxinus americana	1	8.1	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.6	8/13/2021	591.903	1.7	1.3	258144.127	13344656.86
~~835~~	BLKC	Black Cherry	Prunus serotina	1	17.4	0	0	0	0	0	FAIR		Structure	6.1	8/13/2021	600.047	2.7	2.1	258166.984	13344685.33
836	BLKC	Black Cherry	Prunus serotina	1	12.1	0	0	0	0	0	GOOD			2.8	8/13/2021	601.031	1.8	1.2	258056.211	13344105.84
837	POAK	Pin Oak	Quercus palustris	1	13.1	0	0	0	0	0	GOOD			2.9	8/13/2021	599.182	2.2	1.4	258060.316	13344117.04
838	SIBE	Siberian elm	Ulmus pumila	1	14.3	0	0	0	0	0	GOOD			3.1	8/13/2021	606.762	2.2	2	258040.062	13344118.71
839	BLKC	Black Cherry	Prunus serotina	1	12.6	0	0	0	0	0	GOOD			3.1	8/13/2021	593.787	1.8	1.5	258003.885	13344157.46
840	BLKC	Black Cherry	Prunus serotina	1	9.8	0	0	0	0	0	GOOD			3.5	8/13/2021	599.447	1.9	1.4	257978.813	13344199.65
841	POAK	Pin Oak	Quercus palustris	1	19.1	0	0	0	0	0	GOOD			3.6	8/13/2021	599.43	4.4	3.4	257994.814	13344226.36
842	BLKC	Black Cherry	Prunus serotina	1	12.7	0	0	0	0	0	GOOD			4.1	8/13/2021	593.066	2.9	2.2	257993.399	13344232.13
843	POAK	Pin Oak	Quercus palustris	1	14.1	0	0	0	0	0	GOOD			4.9	8/13/2021	603.119	2.1	1.8	258025.291	13344217.04
844	ROAK	Red Oak	Quercus rubra	1	10.7	0	0	0	0	0	GOOD			2.5	8/13/2021	591.137	1.6	1.4	258035.194	13344191.81
845	MUL	White Mulberry	Morus alba	1	9	0	0	0	0	0	GOOD			6.2	8/13/2021	603.149	3.7	3.1	258052.808	13344197.72
846	POAK	Pin Oak	Quercus palustris	1	16.1	0	0	0	0	0	GOOD			5	8/13/2021	598.778	6.4	5.8	258063.6	13344211.64
847	ROAK	Red Oak	Quercus rubra	1	13.3	0	0	0	0	0	GOOD			2.8	8/13/2021	603.461	2.1	2.1	258040.992	13344229.6
848	BLKC	Black Cherry	Prunus serotina	1	10.5	0	0	0	0	0	GOOD			3.3	8/13/2021	591.003	2.3	2.2	258088.091	13344203.61
849	BLKC	Black Cherry	Prunus serotina	1	10.6	0	0	0	0	0	GOOD			3	8/13/2021	600.434	1.9	1.4	258058.959	13344190.57
850	BURO	Bur Oak	Quercus macrocarpa	1	9.7	0	0	0	0	0	GOOD			3.3	8/13/2021	607.241	2.1	1.7	258057.383	13344181.12
851	BLKC	Black Cherry	Prunus serotina	1	9.7	8.6	0	0	0	0	GOOD			3.6	8/13/2021	588.222	2.8	2.4	258063.767	13344170.92
852	BLKC	Black Cherry	Prunus serotina	1	13.1	12.5	10.7	0	0	0	GOOD			4.3	8/13/2021	597.328	3.4	3.1	258079.972	13344158.59
853	BLKC	Black Cherry	Prunus serotina	1	12.8	9.2	0	0	0	0	GOOD			3.8	8/13/2021	601.594	1.9	1.7	258099.6	13344149.56
854	BLKC	Black Cherry	Prunus serotina	1	19.1	12.1	11	0	0	0	GOOD			3.7	8/13/2021	609.416	2.7	2.3	258101.324	13344133.54
855	POAK	Pin Oak	Quercus palustris	1	8	0	0	0	0	0	GOOD			3	8/13/2021	601.193	2.1	1.9	258104.412	13344123.13
856	SWO	Swamp White Oak	Quercus bicolor	1	12.3	0	0	0	0	0	GOOD			3	8/13/2021	598.512	2.2	2	258110.114	13344164.27
857	POAK	Pin Oak	Quercus palustris	1	10.7	0	0	0	0	0	GOOD			4.5	8/13/2021	610.282	3	2.6	258100.645	13344176.04
858	POAK	Pin Oak	Quercus palustris	1	13.1	0	0	0	0	0	GOOD			2.9	8/13/2021	599.66	6.9	4.7	258111.43	13344180.93
859	POAK	Pin Oak	Quercus palustris	1	8	0	0	0	0	0	GOOD			2.7	8/13/2021	601.469	3.9	3.1	258091.988	13344184.2
860	BLKC	Black Cherry	Prunus serotina	1	10.9	10.3	0	0	0	0	GOOD			2.7	8/13/2021	604.466	2.1	1.6	258116.611	13344225.34
861	POAK	Pin Oak	Quercus palustris	1	9.2	0	0	0	0	0	GOOD			4.7	8/13/2021	585.162	3	2.7	258128.978	13344199.19
862	BLKC	Black Cherry	Prunus serotina	1	11.3	10.8	0	0	0	0	GOOD			2.8	8/13/2021	597.118	2.2	1.7	258148.358	13344198.28
863	POAK	Pin Oak	Quercus palustris	1	11.1	0	0	0	0	0	GOOD			5.3	8/13/2021	589.144	2.5	1.7	258133.345	13344164.67
864	BLKC	Black Cherry	Prunus serotina	1	9.6	8.6	0	0	0	0	GOOD			2.9	8/13/2021	603.103	1.8	1.4	258146.052	13344149.6
865	POAK	Pin Oak	Quercus palustris	1	13.1	0	0	0	0	0	GOOD			3	8/13/2021	588.133	2	1.4	258190.28	13344175.45
866	COT	Eastern Cottonwood	Populus deltoides	1	21.1	20.7	0	0	0	0	GOOD			6.5	8/13/2021	612.24	2.9	1.9	258179.434	13344218.62
867	COT	Eastern Cottonwood	Populus deltoides	1	18	0	0	0	0	0	DONE			5.5	8/13/2021	600.825	3.4	2.3	258181.9	13344198.4
868	COT	Eastern Cottonwood	Populus deltoides	1	11	11	0	0	0	0	GOOD			2.9	8/13/2021	602.231	2.3	1.8	258192.994	13344211.96
869	COT	Eastern Cottonwood	Populus deltoides	1	11.5	6.5	0	0	0	0	GOOD			2.9	8/13/2021	599.614	2.2	1.5	258191.382	13344208.05
870	COT	Eastern Cottonwood	Populus deltoides	1	9.1	0	0	0	0	0	GOOD			2.9	8/13/2021	591.712	2.2	1.5	258196.002	13344204.07
871	BLKC	Black Cherry	Prunus serotina	1	12.1	0	0	0	0	0	GOOD			2.9	8/13/2021	609.28	2.7	2	258197.408	13344179.96
872	BLKC	Black Cherry	Prunus serotina	1	8.2	0	0	0	0	0	GOOD			3.1	8/13/2021	598.687	2	1.3	258222.372	13344152.19
873	REMX	Red Maple	Acer x freemanii	1	9.2	0	0	0	0	0	GOOD			2.9	8/13/2021	597.634	14.9	9.7	258218.755	13344176.54
874	REMX	Red Maple	Acer x freemanii	1	8.3	0	0	0	0	0	GOOD			3	8/13/2021	595.062	4.2	2.9	258226.043	13344177.52
875	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			4.9	8/13/2021	595.273	4.4	2.7	258240.292	13344191.07
876	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	POOR		Structure	3	8/13/2021	596.075	1.9	1.4	258227.836	13344184.45
877	COT	Eastern Cottonwood	Populus deltoides	1	34.7	0	0	0	0	0	GOOD			3	8/13/2021	597.47	1.8	1.6	258214.749	13344189.03
878	BLKC	Black Cherry	Prunus serotina	1	8.8	0	0	0	0	0	GOOD			2.5	8/13/2021	583.76	2.6	2.3	258228.256	13344196.74
879	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			2.7	8/13/2021	596.958	2.3	1.6	258230.385	13344221.91
880	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.9	8/13/2021	610.416	2.7	1.9	258190.777	13344225.47
881	NORWM	Norway Maple	Acer platanoides	1	8.2	0	0	0	0	0	GOOD			69.1	8/13/2021	591.068	8	3.4	258238.672	13344240.98
882	BLKC	Black Cherry	Prunus serotina	1	11.1	0	0	0	0	0	GOOD			7.6	8/13/2021	583.755	3	2.3	258230.271	13344244.62
883	NORWM	Norway Maple	Acer platanoides	1	12.6	0	0	0	0	0	GOOD			5.6	8/13/2021	593.993	3.9	2.6	258214.679	13344242.15
~~884~~	COT	Eastern Cottonwood	Populus deltoides	1	32.2	0	0	0	0	0	GOOD			3.5	8/13/2021	599.614	2.5	1.6	258216.74	13344252.51
~~885~~	HOPB	Hop-Hornbeam	Ostrya virginiana	1	8.1	0	0	0	0	0	GOOD			7	8/13/2021	607.885	1.9	1.6	258236.459	13344271.69
~~886~~	ROAK	Red Oak	Quercus rubra	1	10.8	0	0	0	0	0	GOOD			3.6	8/13/2021	594.929	5.9	4.3	258220.365	13344280.68
~~887~~	ROAK	Red Oak	Quercus rubra	1	14.6	0	0	0	0	0	GOOD			5.4	8/13/2021	612.144	10	6.7	258216.612	13344293.25
~~888~~	COT	Eastern Cottonwood	Populus deltoides	1	13.7	0	0	0	0	0	GOOD			3.8	8/13/2021	617.157	3.9	2.9	258231.035	13344289.19
~~889~~	COT	Eastern Cottonwood	Populus deltoides	1	13.7	12.1	0	0	0	0	GOOD			3	8/13/2021	603.826	4	3	258223.945	13344308.57
~~890~~	BLKC	Black Cherry	Prunus serotina	1	9.7	0	0	0	0	0	GOOD			3.1	8/13/2021	584.184	3.4	2.4	258230.459	13344311.92
~~891~~	COT	Eastern Cottonwood	Populus deltoides	1	10.8	0	0	0	0	0	GOOD			6.3	8/13/2021	611.796	2.5	1.9	258199.999	13344320.71
~~892~~	POAK	Pin Oak	Quercus palustris	1	9.5	0	0	0	0	0	GOOD			4.5	8/13/2021	580.154	8.2	5.8	258196.871	13344303.27
~~893~~	COT	Eastern Cottonwood	Populus deltoides	1	18.5	0	0	0	0	0	GOOD			4.5	8/13/2021	590.55	1.5	1.5	258223.169	13344324.73
~~894~~	COT	Eastern Cottonwood	Populus deltoides	1	10.2	0	0	0	0	0	GOOD			2.5	8/13/2021	591.274	1.7	1.2	258209.494	13344345.23
~~895~~	COT	Eastern Cottonwood	Populus deltoides	1	15.6	0	0	0	0	0	GOOD			2.6	8/13/2021	605.918	1.7	1.2	258196.164	13344341.8
~~896~~	BLKC	Black Cherry	Prunus serotina	1	10.1	8.1	0	0	0	0	GOOD			5.5	8/13/2021	598.248	8	5.9	258157.813	13344383.85
~~897~~	ROAK	Red Oak	Quercus rubra	1	15.4	0	0	0	0	0	GOOD			3.9	8/13/2021	600.969	2.1	1.4	258223.634	13344373.57
~~898~~	COT	Eastern Cottonwood	Populus deltoides	1	14.5	0	0	0	0	0	GOOD			7.1	8/13/2021	603.172	3.6	2.6	258232.072	13344372.65
~~899~~	HOPB	Hop-Hornbeam	Ostrya virginiana	1	8.2	0	0	0	0	0	GOOD			4.1	8/13/2021	598.666	2.2	1.6	258228.632	13344360.03
~~901~~	REDM	Red Maple	Acer rubrum	1	15	0	0	0	0	0	GOOD			5.6	8/13/2021	605.604	3.5	2.6	258241.578	13344362.19
~~902~~	COT	Eastern Cottonwood	Populus deltoides	1	21	0	0	0	0	0	GOOD			2.7	8/13/2021	587.277	2.2	1.7	258240.154	13344344.67
~~903~~	COT	Eastern Cottonwood	Populus deltoides	1	15.6	0	0	0	0	0	GOOD			2.7	8/13/2021	599.281	2.2	1.7	258239.822	13344341.35
~~904~~	COT	Eastern Cottonwood	Populus deltoides	1	25.6	0	0	0	0	0	GOOD			4.6	8/13/2021	606.083	2.7	2.2	258220.772	13344355.81
~~905~~	COT	Eastern Cottonwood	Populus deltoides	1	15.8	0	0	0	0	0	GOOD			3.2	8/13/2021	612.814	4.4	2.7	258236.029	13344328.87
~~906~~	AELM	American elm	Ulmus americana	1	9.7	0	0	0	0	0	GOOD			3.8	8/13/2021	595.674	1.7	1.2	258251.097	13344344.88
~~907~~	COT	Eastern Cottonwood	Populus deltoides	1	22.4	0	0	0	0	0	GOOD			3.8	8/13/2021	602.234	2.8	1.8	258282.348	13344356.58
~~908~~	REMX	Red Maple	Acer x freemanii	1	9.7	0	0	0	0	0	GOOD			8.4	8/13/2021	590.506	3.5	2.1	258251.502	13344354.8
~~909~~	COT	Eastern Cottonwood	Populus deltoides	1	13.7	0	0	0	0	0	GOOD			2.9	8/13/2021	599.367	2.3	2.1	258238.568	13344366.52
~~910~~	HOPB	Hop-Hornbeam	Ostrya virginiana	1	8	0	0	0	0	0	GOOD			4.7	8/13/2021	597.209	3.6	2.5	258245.84	13344385.79
~~911~~	COT	Eastern Cottonwood	Populus deltoides	1	16.2	0	0	0	0	0	GOOD			2.9	8/13/2021	596.799	4.5	3.1	258218.804	13344398.22
~~912~~	CEDAR	Red-Cedar	Juniperus virginiana	1	8.1	0	0	0	0	0	GOOD			3	8/13/2021	590.644	3.3	2.2	258214.205	13344398.46
~~913~~	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			2.8	8/13/2021	593.86	2.4	1.5	258166.754	13344409.06
~~914~~	SIBE	Siberian elm	Ulmus pumila	1	8	0	0	0	0	0	POOR		Structure	3	8/13/2021	601.35	2.1	1.5	258173.274	13344420.23
~~915~~	WASH	White Ash	Fraxinus americana	1	9.2	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	4	8/13/2021	593.578	2.2	1.5	258148.94	13344445.89
~~916~~	BLKC	Black Cherry	Prunus serotina	1	10.9	0	0	0	0	0	GOOD			2.7	8/13/2021	596.13	2.4	1.4	258147.38	13344451.55
~~917~~	POAK	Pin Oak	Quercus palustris	1	9.6	0	0	0	0	0	GOOD			2.2	8/13/2021	589.922	1.7	1.2	258130.403	13344480.1
~~918~~	BLKC	Black Cherry	Prunus serotina	1	13.9	0	0	0	0	0	GOOD			2.7	8/13/2021	587.482	1.9	1.3	258070.251	13344421.54
~~919~~	WASH	White Ash	Fraxinus americana	1	9.5	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.7	8/13/2021	595.914	1.6	1.1	258057.388	13344456.88
~~920~~	AELM	American elm	Ulmus americana	1	12.1	0	0	0	0	0	GOOD			2.9	8/13/2021	597.724	2.5	1.6	258189.441	13344454.65
~~921~~	BLKC	Black Cherry	Prunus serotina	1	10.1	0	0	0	0	0	GOOD			3	8/13/2021	588.774	2.8	2.1	258234.751	13344405.69
~~922~~	BLKC	Black Cherry	Prunus serotina	1	9.4	0	0	0	0	0	GOOD			2.9	8/13/2021	583.482	2.3	1.6	258250.904	13344392.63
~~923~~	COT	Eastern Cottonwood	Populus deltoides	1	20.1	0	0	0	0	0	GOOD			2.9	8/13/2021	581.315	2.1	1.2	258257.96	13344382.12
~~924~~	COT	Eastern Cottonwood	Populus deltoides	1	20	0	0	0	0	0	GOOD			3.6	8/13/2021	603.124	3.5	2.4	258284.626	13344381.63
~~925~~	BLKC	Black Cherry	Prunus serotina	1	10.5	0	0	0	0	0	GOOD			5.1	8/13/2021	600.052	2.6	1.7	258277.401	13344368.33
~~926~~	TILIA	Basswood	Tilia americana	1	10.2	0	0	0	0	0	GOOD			3.1	8/13/2021	598.47	4.1	2.8	258285.443	13344343.35
~~927~~	BLKC	Black Cherry	Prunus serotina	1	15.5	0	0	0	0	0	GOOD		Structure, Trunk SLIGHT LEAN	3.2	8/13/2021	595.123	2.4	1.6	258302.941	13344359.56
~~928~~	AELM	American elm	Ulmus americana	1	11.9	0	0	0	0	0	GOOD			2.8	8/13/2021	589.603	2.6	1.5	258313.14	13344336.25
~~929~~	BLKC	Black Cherry	Prunus serotina	1	12.1	0	0	0	0	0	GOOD			2.8	8/13/2021	592.183	4	2.4	258313.596	13344324.77
~~930~~	AELM	American elm	Ulmus americana	1	8.6	0	0	0	0	0	GOOD			4.3	8/13/2021	599.95	3.2	2.5	258303.142	13344308.93
~~931~~	BLKW	Black Walnut	Juglans nigra	1	15.6	0	0	0	0	0	GOOD			4	8/13/2021	601.507	4.3	2.6	258315.455	13344295.68
~~932~~	WASH	White Ash	Fraxinus americana	1	9.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	8/13/2021	588.146	2.6	1.6	258311.233	13344297.1
~~933~~	BLKW	Black Walnut	Juglans nigra	1	8.7	0	0	0	0	0	GOOD			2.6	8/13/2021	603.034	3.9	2.5	258297.736	13344306.77
~~934~~	TILIA	Basswood	Tilia americana	1	12.9	12.7	0	0	0	0	GOOD			5.2	8/13/2021	603.279	2.7	2	258268.522	13344337.3
~~935~~	BLKC	Black Cherry	Prunus serotina	1	12.4	0	0	0	0	0	GOOD			5.8	8/13/2021	594.6	3.3	2	258276.385	13344314.79
~~936~~	TILIA	Basswood	Tilia americana	1	8.6	0	0	0	0	0	GOOD			3.4	8/13/2021	587.483	3.7	2.5	258272.371	13344336.83
~~937~~	BLKC	Black Cherry	Prunus serotina	1	13.1	0	0	0	0	0	GOOD			3.2	8/13/2021	602.128	4.5	2.9	258281.7	13344287.47
~~938~~	BLKW	Black Walnut	Juglans nigra	1	9.8	0	0	0	0	0	GOOD			6.3	8/13/2021	613.186	5.4	4.5	258262.256	13344269.89
939	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			2.7	8/13/2021	598.339	2.8	1.8	258245.808	13344238.73
940	ROAK	Red Oak	Quercus rubra	1	10.8	0	0	0	0	0	GOOD			3.5	8/13/2021	593.81	2.1	1.3	258249.725	13344234.92
941	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			2.9	8/13/2021	593.903	1.9	1.3	258267.493	13344242.45
942	BLKW	Black Walnut	Juglans nigra	1	17.2	0	0	0	0	0	GOOD			7.9	8/13/2021	593.321	7	5.7	258255.601	13344228.51
943	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			2.9	8/13/2021	600.36	5.9	4.2	258255.445	13344219.06
944	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			3	8/13/2021	594.601	4	2.7	258263.708	13344200.59
945	BLKC	Black Cherry	Prunus serotina	1	9.6	0	0	0	0	0	GOOD			3	8/13/2021	596.857	4.3	2.7	258258.135	13344202.18
946	BLKC	Black Cherry	Prunus serotina	1	10.9	0	0	0	0	0	GOOD			3.5	8/13/2021	600.697	6.5	4.2	258252.936	13344171.1
947	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.9	8/13/2021	597.777	3.2	2	258251.251	13344136.49
948	BLKW	Black Walnut	Juglans nigra	1	11.8	0	0	0	0	0	GOOD			2.9	8/13/2021	595.335	1.8	1.2	258224.271	13344121.9
949	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.5	8/13/2021	596.845	2.1	1.4	258147.973	13344132.35
950	SIBE	Siberian elm	Ulmus pumila	1	10.8	0	0	0	0	0	GOOD			3	8/13/2021	592.8	1.7	1.2	258123.054	13344094.4
951	BOXE	Box-Elder	Acer negundo	1	11	0	0	0	0	0	GOOD			2.8	8/13/2021	603.015	2	1.4	258111.738	13344073.14
952	POAK	Pin Oak	Quercus palustris	1	8	0	0	0	0	0	GOOD			2.8	8/13/2021	599.735	1.6	1.2	258093.783	13344098.55
~~953~~	COT	Eastern Cottonwood	Populus deltoides	1	27.5	0	0	0	0	0	FAIR		Structure	7.1	8/16/2021	602.959	4.8	3.5	258315.583	13344376.47
~~954~~	BLKC	Black Cherry	Prunus serotina	1	8.2	0	0	0	0	0	GOOD			2.8	8/16/2021	596.775	2.2	1.6	258310.793	13344383.92
~~955~~	AELM	American elm	Ulmus americana	1	13.3	0	0	0	0	0	GOOD			4.9	8/16/2021	592.171	3.2	2.5	258289.647	13344410.7
~~956~~	BLKC	Black Cherry	Prunus serotina	1	14.8	0	0	0	0	0	GOOD			2.9	8/16/2021	602.38	4.2	2.5	258261.961	13344403.9
~~957~~	BLKC	Black Cherry	Prunus serotina	1	10.2	0	0	0	0	0	GOOD			6.6	8/16/2021	593.744	5.7	4	258273.324	13344405.13
~~958~~	COT	Eastern Cottonwood	Populus deltoides	1	24.4	0	0	0	0	0	FAIR		Structure	4.7	8/16/2021	620.871	4.2	3.3	258265.988	13344427.05
~~959~~	COT	Eastern Cottonwood	Populus deltoides	1	20.1	0	0	0	0	0	GOOD			4.6	8/16/2021	608.095	8.7	7.6	258253.311	13344425.09
~~960~~	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			4.4	8/16/2021	602.215	2.3	1.6	258248.149	13344447.09
~~961~~	AELM	American elm	Ulmus americana	1	18.4	0	0	0	0	0	FAIR		STRUCTURE	4.4	8/16/2021	638.379	4.4	3.3	258264.127	13344439.64
~~962~~	BLKC	Black Cherry	Prunus serotina	1	10.8	0	0	0	0	0	GOOD			4.3	8/16/2021	608.134	2.9	2.1	258299.668	13344440.32
~~963~~	BLKW	Black Walnut	Juglans nigra	1	15.1	0	0	0	0	0	POOR		Structure	4.8	8/16/2021	632.493	6.4	4.7	258294.319	13344477.08
~~964~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.2	8/16/2021	590.707	1.8	1.5	258298.055	13344489.73
~~965~~	AELM	American elm	Ulmus americana	1	14.1	0	0	0	0	0	GOOD			4.7	8/16/2021	601.653	5	3.8	258280.338	13344506.46
~~966~~	COT	Eastern Cottonwood	Populus deltoides	1	15.4	0	0	0	0	0	GOOD			3.2	8/16/2021	607.041	4.9	4	258281.947	13344484.27
~~967~~	COT	Eastern Cottonwood	Populus deltoides	1	14.8	0	0	0	0	0	GOOD			3.2	8/16/2021	606.871	2.1	1.7	258265.826	13344480.97
~~968~~	COT	Eastern Cottonwood	Populus deltoides	1	30.2	0	0	0	0	0	GOOD			19.5	8/16/2021	595.04	5	1.9	258267.288	13344495.66
~~969~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			8.5	8/16/2021	598.738	6.2	3.3	258263.363	13344451.75
~~970~~	NORWM	Norway Maple	Acer platanoides	1	13.7	0	0	0	0	0	GOOD			2.7	8/16/2021	601.84	2.5	2.3	258238.735	13344453.67
~~971~~	SIBE	Siberian elm	Ulmus pumila	1	11.2	0	0	0	0	0	GOOD			3.4	8/16/2021	589.605	2.2	1.8	258234.705	13344401.09
~~972~~	COT	Eastern Cottonwood	Populus deltoides	1	16.4	16	0	0	0	0	GOOD			8.9	8/16/2021	622.654	3.1	2.2	258209.316	13344466.2

TREE REMOVAL LEGEND

~~00~~ INDICATES EXISTING TREE TO BE REMOVED

00 INDICATES EXISTING TREE TO REMAIN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Tree List

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: M. Carnaghi
DESIGNED BY:
APPROVED BY: K. Navaroli
DATE: September 24, 2021
SCALE: N.T.S.

NFE JOB NO. M278-01

SHEET NO. SP 1.24

~~973~~	SIBE	Siberian elm	Ulmus pumila	1	9.9	0	0	0	0	0	GOOD			8.6	8/16/2021	612.374	9.8	6.5	258188.884	13344481.36
~~974~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.5	8/16/2021	596.497	2.4	1.8	258189.113	13344490.91
~~975~~	BLKC	Black Cherry	Prunus serotina	1	13.4	0	0	0	0	0	GOOD			2.9	8/16/2021	595.599	2.2	1.6	258189.639	13344499.15
~~976~~	BOXE	Box-Elder	Acer negundo	1	10.9	0	0	0	0	0	GOOD			2.9	8/16/2021	608.675	2	1.9	258173.042	13344518.59
~~977~~	BOXE	Box-Elder	Acer negundo	1	15.2	0	0	0	0	0	FAIR		Structure	14.4	8/16/2021	604.624	2.7	2.2	258172.827	13344535.54
~~978~~	AELM	American elm	Ulmus americana	1	17.1	0	0	0	0	0	GOOD			3.1	8/16/2021	605.666	4.2	3.2	258155.733	13344536.64
~~979~~	WASH	White Ash	Fraxinus americana	1	9.3	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.8	8/16/2021	592.594	1.7	1.3	258144.954	13344536.58
~~980~~	CPEAR	Common Pear	Pyrus communis	1	12.2	0	0	0	0	0	GOOD			2.7	8/16/2021	587.968	2	2.2	258143.031	13344551.56
~~981~~	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	POOR			3	8/16/2021	592.775	1.5	1.3	258092.903	13344555.93
~~982~~	COT	Eastern Cottonwood	Populus deltoides	1	23.2	0	0	0	0	0	GOOD			3	8/16/2021	588.414	4	3.4	258229.316	13344517.56
~~983~~	PLOM	Lombardy Poplar	Populus nigra	1	11.3	0	0	0	0	0	GOOD			4.1	8/16/2021	592.573	3.6	2.8	258241.824	13344500.72
~~984~~	COT	Eastern Cottonwood	Populus deltoides	1	24.2	11.2	0	0	0	0	GOOD			3	8/16/2021	598.751	1.8	1.9	258263.756	13344508.46
~~985~~	COT	Eastern Cottonwood	Populus deltoides	1	13.3	0	0	0	0	0	FAIR		Structure	5.7	8/16/2021	610.062	1.9	1.8	258249.688	13344507.95
~~986~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.6	8/16/2021	594.898	5.6	4.7	258257.177	13344534.43
~~987~~	BLKC	Black Cherry	Prunus serotina	1	13.9	0	0	0	0	0	GOOD			3.4	8/16/2021	581.576	2.9	2.6	258270.632	13344524.03
~~988~~	SHAGH	Shagbark Hickory	Carya ovata	1	8	0	0	0	0	0	GOOD			4	8/16/2021	583.392	6.2	5.1	258262.229	13344530.49
~~989~~	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			3.2	8/16/2021	592.118	2.8	2.2	258264.320	13344539.89
~~990~~	COT	Eastern Cottonwood	Populus deltoides	1	12.8	0	0	0	0	0	GOOD			4.4	8/16/2021	613.006	4.2	5	258266.594	13344538.17
~~991~~	BLKC	Black Cherry	Prunus serotina	1	12.6	0	0	0	0	0	GOOD			3.7	8/16/2021	593.461	1.8	1.6	258275.682	13344565.76
~~992~~	BOXE	Box-Elder	Acer negundo	1	11.6	0	0	0	0	0	GOOD			3.7	8/16/2021	597.756	2.3	1.9	258255.366	13344615.26
~~993~~	PLOM	Lombardy Poplar	Populus nigra	1	12.4	0	0	0	0	0	GOOD			5.1	8/16/2021	590.305	4.6	4.3	258305.738	13344607.9
~~994~~	PLOM	Lombardy Poplar	Populus nigra	1	9.9	0	0	0	0	0	GOOD			7.4	8/16/2021	590.068	2.2	2.2	258308.333	13344597.26
~~995~~	SILM	Silver Maple	Acer saccharinum	1	16.5	12.4	0	0	0	0	GOOD			3.1	8/16/2021	598.915	6.8	6.3	258309.892	13344584.45
~~996~~	COT	Eastern Cottonwood	Populus deltoides	1	21.4	0	0	0	0	0	GOOD			4.3	8/16/2021	590.127	2.8	2.7	258329.715	13344599.8
~~997~~	COT	Eastern Cottonwood	Populus deltoides	1	12.1	0	0	0	0	0	GOOD			5.1	8/16/2021	592.558	2.1	1.9	258352.095	13344610.64
~~998~~	COT	Eastern Cottonwood	Populus deltoides	1	12.8	0	0	0	0	0	GOOD			6.4	8/16/2021	599.913	4.5	4.3	258349.202	13344614.24
~~999~~	COT	Eastern Cottonwood	Populus deltoides	1	21.1	0	0	0	0	0	GOOD			5.1	8/16/2021	583.074	3.9	3.3	258332.073	13344593.13
~~1000~~	COT	Eastern Cottonwood	Populus deltoides	1	18.1	0	0	0	0	0	GOOD			3	8/16/2021	597.026	5.5	5.8	258357.798	13344585.05
~~1001~~	COT	Eastern Cottonwood	Populus deltoides	1	20.7	0	0	0	0	0	GOOD			2.7	8/16/2021	581.341	1.6	1.4	258359.772	13344580.12
~~1002~~	SILM	Silver Maple	Acer saccharinum	1	14.1	0	0	0	0	0	GOOD			3.1	8/16/2021	586.986	1.8	1.6	258356.289	13344578.16
~~1003~~	COT	Eastern Cottonwood	Populus deltoides	1	45	0	0	0	0	0	GOOD			5.7	8/16/2021	608.206	7.6	6.6	258337.69	13344563.5
~~1004~~	HACB	Hackberry	Celtis occidentalis	1	8	0	0	0	0	0	GOOD			2.9	8/16/2021	601.138	3.5	2.4	258332.419	13344566.25
~~1005~~	COT	Eastern Cottonwood	Populus deltoides	1	17.7	0	0	0	0	0	GOOD			4.1	8/16/2021	597.295	4.4	3.2	258307.543	13344577.9
~~1006~~	AELM	American elm	Ulmus americana	1	9.9	0	0	0	0	0	GOOD			3	8/16/2021	599.322	3.2	2.6	258303.502	13344571.39
~~1007~~	AELM	American elm	Ulmus americana	1	14.5	0	0	0	0	0	GOOD			3.5	8/16/2021	587.419	3.7	2.8	258305.364	13344570.83
~~1008~~	COT	Eastern Cottonwood	Populus deltoides	1	25	0	0	0	0	0	GOOD			4.2	8/16/2021	607.556	8.7	7.1	258291.404	13344575.03
~~1009~~	COT	Eastern Cottonwood	Populus deltoides	1	22.1	0	0	0	0	0	GOOD			3.3	8/16/2021	643.389	5.7	4.3	258266.356	13344578.82
~~1010~~	COT	Eastern Cottonwood	Populus deltoides	1	18.4	0	0	0	0	0	GOOD			3.8	8/16/2021	600.41	3.2	2.8	258342.597	13344556.25
~~1011~~	COT	Eastern Cottonwood	Populus deltoides	1	28.8	0	0	0	0	0	GOOD			3	8/16/2021	628.414	5.7	4.9	258279.548	13344552.71
~~1012~~	BLKC	Black Cherry	Prunus serotina	1	8.5	0	0	0	0	0	GOOD			6.2	8/16/2021	607.652	4.3	3.4	258311.706	13344528.83
~~1013~~	BLKW	Black Walnut	Juglans nigra	1	8.4	0	0	0	0	0	GOOD			8.7	8/16/2021	621.698	3.3	2.9	258318.91	13344496.01
~~1014~~	AELM	American elm	Ulmus americana	1	12.2	0	0	0	0	0	GOOD			5.8	8/16/2021	600.882	3.6	2.9	258331.442	13344483.16
~~1015~~	AELM	American elm	Ulmus americana	1	10.4	0	0	0	0	0	GOOD			11.1	8/16/2021	593.064	3.1	2.4	258350.468	13344447.75
~~1016~~	SILM	Silver Maple	Acer saccharinum	1	11.5	0	0	0	0	0	GOOD			3.6	8/16/2021	607.922	8.1	7.2	258338.276	13344454.67
~~1017~~	SILM	Silver Maple	Acer saccharinum	1	12.8	0	0	0	0	0	GOOD			3.8	8/16/2021	590.704	1.8	1.3	258369.4	13344457.63
~~1018~~	SILM	Silver Maple	Acer saccharinum	1	8	0	0	0	0	0	GOOD			3	8/16/2021	585.117	2.7	2	258389.638	13344466.08
~~1019~~	SILM	Silver Maple	Acer saccharinum	1	15.3	0	0	0	0	0	GOOD			4.4	8/16/2021	595.278	4.2	2.9	258382.594	13344434.28
~~1020~~	SILM	Silver Maple	Acer saccharinum	1	9.3	0	0	0	0	0	GOOD			24.6	8/16/2021	617.88	3	2.6	258359.368	13344421.98
~~1021~~	SILM	Silver Maple	Acer saccharinum	1	12.4	0	0	0	0	0	GOOD			2.9	8/16/2021	592.925	4.2	3.3	258393.074	13344401.07
~~1022~~	COT	Eastern Cottonwood	Populus deltoides	1	24.9	0	0	0	0	0	GOOD			39.4	8/16/2021	593.532	2.7	3.2	258383.562	13344400.36
~~1023~~	GRAYBIRCH	Gray birch	Betula populifolia	1	9.3	0	0	0	0	0	GOOD			3	8/16/2021	583.27	4.5	3.2	258407.995	13344417.71
~~1024~~	COT	Eastern Cottonwood	Populus deltoides	1	23.5	0	0	0	0	0	GOOD			3	8/16/2021	579.763	2.5	2.1	258399.027	13344407.44
~~1025~~	SILM	Silver Maple	Acer saccharinum	1	9.7	0	0	0	0	0	GOOD			3.3	8/16/2021	588.33	2	1.5	258403.337	13344402.25
~~1026~~	COT	Eastern Cottonwood	Populus deltoides	1	14.6	0	0	0	0	0	GOOD			2.1	8/16/2021	597.048	2.3	1.6	258394.704	13344396.83
~~1027~~	COT	Eastern Cottonwood	Populus deltoides	1	24.7	0	0	0	0	0	GOOD			3.3	8/16/2021	594.653	3.9	2.5	258376.842	13344391.5
~~1028~~	COT	Eastern Cottonwood	Populus deltoides	1	23.1	0	0	0	0	0	GOOD			42.7	8/16/2021	571.773	2.5	1.9	258382.507	13344375.79
~~1029~~	COT	Eastern Cottonwood	Populus deltoides	1	18.5	0	0	0	0	0	GOOD			3	8/16/2021	609.299	2.8	2.6	258391.32	13344369.69
~~1030~~	COT	Eastern Cottonwood	Populus deltoides	1	14.9	0	0	0	0	0	GOOD			3	8/16/2021	587.946	2.1	1.7	258408.188	13344365.55
~~1031~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			5.1	8/16/2021	584.855	5.5	5.1	258400.668	13344373.6
~~1032~~	COT	Eastern Cottonwood	Populus deltoides	1	21	0	0	0	0	0	GOOD			3	8/16/2021	578.835	4.7	3.5	258389.948	13344346.16
~~1033~~	SILM	Silver Maple	Acer saccharinum	1	19.6	0	0	0	0	0	GOOD			141.3	8/16/2021	591.157	4.8	3.7	258342.164	13344347.3
~~1034~~	AELM	American elm	Ulmus americana	1	9.2	0	0	0	0	0	GOOD			2.8	8/16/2021	589.892	1.9	1.7	258347.163	13344323.16
~~1035~~	TILIA	Basswood	Tilia americana	1	22.2	0	0	0	0	0	GOOD			3.1	8/16/2021	602.836	2.2	2.3	258360.308	13344299.33
~~1036~~	SILM	Silver Maple	Acer saccharinum	1	13.1	0	0	0	0	0	GOOD			2.3	8/16/2021	576.897	1.7	1.2	258370.414	13344289.79
~~1037~~	AELM	American elm	Ulmus americana	1	8.2	0	0	0	0	0	GOOD			3.6	8/16/2021	560.553	8.8	5.1	258369.816	13344285.59
~~1038~~	COT	Eastern Cottonwood	Populus deltoides	1	27	0	0	0	0	0	GOOD			2.7	8/16/2021	588.726	1.7	1.2	258381.892	13344285.89
~~1039~~	COT	Eastern Cottonwood	Populus deltoides	1	11.2	0	0	0	0	0	GOOD			2.4	8/16/2021	580.833	1.8	1.4	258389.671	13344284.88
~~1040~~	COT	Eastern Cottonwood	Populus deltoides	1	20.5	0	0	0	0	0	GOOD			3.9	8/16/2021	572.025	2.5	1.5	258392.976	13344310.47
~~1041~~	COT	Eastern Cottonwood	Populus deltoides	1	22	21.8	0	0	0	0	GOOD			7.6	8/16/2021	598.776	2.6	1.7	258390.893	13344317.5
~~1042~~	TILIA	Basswood	Tilia americana	1	8	0	0	0	0	0	GOOD			2.9	8/16/2021	590.062	4.3	2.4	258360.053	13344272.06
~~1043~~	AELM	American elm	Ulmus americana	1	10.2	0	0	0	0	0	GOOD			3	8/16/2021	583.673	1.9	1.2	258354.49	13344258.84
~~1044~~	SILM	Silver Maple	Acer saccharinum	1	21.9	21.4	16.7	0	0	0	GOOD			7.3	8/16/2021	594.667	2	1.5	258364.423	13344257.51
1045	SILM	Silver Maple	Acer saccharinum	1	14.8	0	0	0	0	0	GOOD			4.1	8/16/2021	588.995	2.2	1.8	258392.356	13344264.13
1046	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			2.5	8/16/2021	581.914	1.9	1.4	258399.401	13344258.73
1047	COT	Eastern Cottonwood	Populus deltoides	1	12.3	0	0	0	0	0	GOOD			2.7	8/16/2021	602.315	2.6	1.7	258381.141	13344248.74
1048	COT	Eastern Cottonwood	Populus deltoides	1	18.5	0	0	0	0	0	GOOD			3.3	8/16/2021	583.416	4.4	2.6	258387.883	13344233.15
1049	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.9	8/16/2021	588.215	2	1.3	258367.816	13344211.64
~~1050~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.8	8/16/2021	591.896	1.8	1.1	258355.743	13344244.08
1051	BLKW	Black Walnut	Juglans nigra	1	9.2	0	0	0	0	0	GOOD			4.6	8/16/2021	590.946	3.4	3	258327.969	13344239.51
1052	SWO	Swamp White Oak	Quercus bicolor	1	14.9	0	0	0	0	0	GOOD			3	8/16/2021	585.744	2	1.3	258331.274	13344220.19
1053	BLKW	Black Walnut	Juglans nigra	1	13.8	0	0	0	0	0	GOOD			4.7	8/16/2021	587.532	1.8	1.2	258323.164	13344215.78
1054	SHAGH	Shagbark Hickory	Carya ovata	1	11.1	0	0	0	0	0	GOOD			3.8	8/16/2021	598.014	2.8	1.8	258300.31	13344239.48
~~1055~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	8/16/2021	607.125	3.1	2	258301.654	13344250.31
1056	AELM	American elm	Ulmus americana	1	15.1	0	0	0	0	0	GOOD			2.9	8/16/2021	581.941	2	1.2	258323.655	13344174.16
1057	COT	Eastern Cottonwood	Populus deltoides	1	14.3	0	0	0	0	0	GOOD			3.2	8/16/2021	586.554	2	1.3	258418.598	13344290.11
~~1058~~	COT	Eastern Cottonwood	Populus deltoides	1	22.7	0	0	0	0	0	GOOD			2.8	8/16/2021	578.778	3.3	2.6	258407.515	13344318.2
~~1059~~	SILM	Silver Maple	Acer saccharinum	1	9.6	0	0	0	0	0	GOOD			2.9	8/16/2021	594.334	2.6	1.5	258418.045	13344334.25
~~1060~~	SILM	Silver Maple	Acer saccharinum	1	23.3	0	0	0	0	0	GOOD			4	8/16/2021	583.253	3.8	2.6	258419.597	13344359.86
~~1061~~	BLKC	Black Cherry	Prunus serotina	1	8.2	0	0	0	0	0	GOOD			6.4	8/16/2021	578.286	2.2	1.8	258449.457	13344357.81
~~1062~~	SILM	Silver Maple	Acer saccharinum	1	8	0	0	0	0	0	GOOD			3.4	8/16/2021	588.75	1.7	1.3	258451.333	13344348.96
~~1063~~	SILM	Silver Maple	Acer saccharinum	1	9.9	0	0	0	0	0	GOOD			4.2	8/16/2021	574.569	2.1	1.5	258456.452	13344339.42
~~1064~~	SHAGH	Shagbark Hickory	Carya ovata	1	8.8	0	0	0	0	0	GOOD			2.6	8/16/2021	585.042	1.7	1.2	258478.554	13344370.85
~~1065~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.9	8/16/2021	578.891	2.1	1.8	258456.98	13344372.16
~~1066~~	SWEETC	Sweet Cherry	Prunus avium	1	12.3	0	0	0	0	0	GOOD			3	8/16/2021	584.691	2.2	1.8	258435.852	13344369.89
~~1067~~	COT	Eastern Cottonwood	Populus deltoides	1	20.5	0	0	0	0	0	GOOD			3	8/16/2021	584.841	2.8	2.9	258425.025	13344380.78
~~1068~~	BOXE	Box-Elder	Acer negundo	1	8.6	0	0	0	0	0	GOOD			2.9	8/16/2021	586	3.8	2.6	258448.541	13344387.1
~~1069~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3	8/16/2021	585.707	2.1	1.6	258430.342	13344411.84
~~1070~~	COT	Eastern Cottonwood	Populus deltoides	1	19.4	0	0	0	0	0	GOOD			4.3	8/16/2021	591.145	11.6	11.1	258423.483	13344418.55
~~1071~~	COT	Eastern Cottonwood	Populus deltoides	1	12.8	0	0	0	0	0	GOOD			3.9	8/16/2021	583.962	7.3	5.1	258406.787	13344431.94
~~1072~~	COT	Eastern Cottonwood	Populus deltoides	1	11.1	0	0	0	0	0	GOOD			4.5	8/16/2021	578.969	2.1	1.7	258403.305	13344432.79
~~1073~~	COT	Eastern Cottonwood	Populus deltoides	1	13.6	0	0	0	0	0	GOOD			5.7	8/16/2021	600.156	3	2.6	258406.701	13344442.05
~~1074~~	COT	Eastern Cottonwood	Populus deltoides	1	20.4	0	0	0	0	0	GOOD			3	8/16/2021	581.856	5.1	5	258413.355	13344439.62
~~1075~~	COT	Eastern Cottonwood	Populus deltoides	1	15.5	0	0	0	0	0	GOOD			3.9	8/16/2021	575.755	3.2	2.6	258402.243	13344450.37
~~1076~~	COT	Eastern Cottonwood	Populus deltoides	1	23.6	0	0	0	0	0	GOOD			9.1	8/16/2021	613.967	3	2.8	258403.292	13344444.43
~~1077~~	AELM	American elm	Ulmus americana	1	9	0	0	0	0	0	GOOD			4.3	8/16/2021	590.788	5.7	4.9	258407.061	13344458.65
~~1078~~	COT	Eastern Cottonwood	Populus deltoides	1	10.6	0	0	0	0	0	GOOD			3.8	8/16/2021	592.084	2.1	1.7	258414.552	13344469.54
~~1079~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.9	8/16/2021	595.936	2.6	2.1	258422.58	13344463.71
~~1080~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.9	8/16/2021	599.495	2.7	2.1	258413.714	13344477.86
~~1081~~	COT	Eastern Cottonwood	Populus deltoides	1	24.9	0	0	0	0	0	GOOD			3	8/16/2021	595.742	4.4	4.4	258411.297	13344476.9
~~1082~~	COT	Eastern Cottonwood	Populus deltoides	1	25.7	0	0	0	0	0	GOOD			3.1	8/16/2021	608.466	2.7	2.5	258397.713	13344488.96
~~1083~~	COT	Eastern Cottonwood	Populus deltoides	1	21.4	0	0	0	0	0	GOOD			4.1	8/16/2021	599.668	1.9	1.8	258403.13	13344489.45
~~1084~~	COT	Eastern Cottonwood	Populus deltoides	1	22.7	0	0	0	0	0	GOOD			3.3	8/16/2021	611.542	8.2	8.1	258410.679	13344482.86
~~1085~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			4.4	8/16/2021	606.281	10.5	9.3	258411.733	13344483.57
~~1086~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2	8/16/2021	583.98	3.8	3	258427.839	13344476.85
~~1087~~	COT	Eastern Cottonwood	Populus deltoides	1	11	0	0	0	0	0	GOOD			2.7	8/16/2021	584.288	2.6	2.2	258417.942	13344490.45
~~1088~~	COT	Eastern Cottonwood	Populus deltoides	1	9.1	0	0	0	0	0	GOOD			4	8/16/2021	587.783	4.7	4.5	258417.77	13344505.23
~~1089~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.9	8/16/2021	598.115	6	4.8	258413.481	13344498.24
~~1090~~	COT	Eastern Cottonwood	Populus deltoides	1	12.2	0	0	0	0	0	GOOD			2.8	8/16/2021	587.952	2.9	2.3	258426.61	13344508.18
~~1091~~	COT	Eastern Cottonwood	Populus deltoides	1	14.9	0	0	0	0	0	GOOD			6.5	8/16/2021	597.674	3.1	2.4	258422.809	13344510.72
1092	COT	Eastern Cottonwood	Populus deltoides	1	18.4	0	0	0	0	0	GOOD			3.3	8/16/2021	585.978	3.7	3	258419.931	13344530.9
1093	COT	Eastern Cottonwood	Populus deltoides	1	23.9	0	0	0	0	0	GOOD			3.9	8/16/2021	580.626	2.3	2.7	258424.241	13344524.76
1094	COT	Eastern Cottonwood	Populus deltoides	1	15.9	0	0	0	0	0	GOOD			3.1	8/16/2021	588.432	4.9	4.1	258415.934	13344539.08
1095	COT	Eastern Cottonwood	Populus deltoides	1	17.8	0	0	0	0	0	GOOD			3.2	8/16/2021	598.035	3.2	2.1	258429.918	13344530.04
1096	COT	Eastern Cottonwood	Populus deltoides	1	21.6	0	0	0	0	0	GOOD			3	8/16/2021	584.305	2.6	2.2	258423.103	13344543.04
1097	COT	Eastern Cottonwood	Populus deltoides	1	12.2	0	0	0	0	0	GOOD			2.2	8/16/2021	584.02	2.2	2	258423.964	13344543.35
1098	COT	Eastern Cottonwood	Populus deltoides	1	23.2	0	0	0	0	0	GOOD			3.2	8/16/2021	589.096	2.7	2.8	258421.783	13344549.07
1099	AELM	American elm	Ulmus americana	1	18.3	0	0	0	0	0	POOR			6.9	8/16/2021	590.57	2.3	1.9	258410.709	13344549.46
1100	AELM	American elm	Ulmus americana	1	15.2	0	0	0	0	0	FAIR			2.5	8/16/2021	590.497	3	2.4	258393.595	13344550.49
1101	BLKC	Black Cherry	Prunus serotina	1	9.2	0	0	0	0	0	GOOD			28.7	8/16/2021	532.018	5.8	2.9	258437.861	13344561.58
1102	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	7.2	8/16/2021	580.493	2.4	1.6	258379.251	13344603.66
1103	AELM	American elm	Ulmus americana	1	14.8	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	7.9	8/16/2021	603.319	5.5	3.6	258416.556	13344586.41
1104	COT	Eastern Cottonwood	Populus deltoides	1	13.1	0	0	0	0	0	FAIR		Structure	37.2	8/16/2021	633.434	8.2	4.3	258428.924	13344596.78
1105	BLKC	Black Cherry	Prunus serotina	1	12.8	0	0	0	0	0	GOOD			5.8	8/16/2021	566.419	6	3.9	258463.655	13344566.07
1106	BLKC	Black Cherry	Prunus serotina	1	12.2	0	0	0	0	0	GOOD			5.8	8/16/2021	602.405	8.8	6.1	258475.787	13344549.12
1107	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			5.8	8/16/2021	618.934	3.2	2	258524.715	13344510.66
1108	CEDAR	Red-Cedar	Juniperus virginiana	1	10.3	0	0	0	0	0	GOOD			6.5	8/16/2021	572.278	17.4	11.6	258528.501	13344480.63
1109	SILM	Silver Maple	Acer saccharinum	1	8	0	0	0	0	0	GOOD			2.9	8/16/2021	573.039	1.9	1.6	258533.512	13344450.96
1110	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	8.1	8/16/2021	573.737	2	1.4	258495.452	13344449.87
1111	BLKC	Black Cherry	Prunus serotina	1	9.8	0	0	0	0	0	GOOD			2.9	8/16/2021	584.282	3.6	2.6	258489.955	13344442.34
1112	NORWM	Norway Maple	Acer platanoides	1	8	0	0	0	0	0	GOOD			2.8	8/16/2021	585.538	2.1	1.7	258483.158	13344421.82
1113	NORWM	Norway Maple	Acer platanoides	1	8	0	0	0	0	0	GOOD			2.8	8/16/2021	595.734	1.9	1.5	258503.264	13344428.86
1114	NORWM	Norway Maple	Acer platanoides	1	8	0	0	0	0	0	GOOD			7.2	8/16/2021	592.583	2.9	2.2	258499.874	13344431.94
1115	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.8	8/16/2021	594.378	3.3	2.4	258500.61	13344417.29
1116	NORWM	Norway Maple	Acer platanoides	1	8	0	0	0	0	0	GOOD			3.2	8/16/2021	581.334	2.1	1.7	258509.231	13344407.3
1117	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.7	8/16/2021	584.398	1.6	1.2	258490.718	13344405.36
1118	BLKC	Black Cherry	Prunus serotina	1	14.2	0	0	0	0	0	GOOD			6.3	8/16/2021	592.36	1.8	1.5	258468.84	13344434.17
1119	AELM	American elm	Ulmus americana	1	12.3	0	0	0	0	0	GOOD			3	8/16/2021	587.122	4.5	3.3	258472.7	13344433.69
1120	BLKC	Black Cherry	Prunus serotina	1	14.4	0	0	0	0	0	GOOD			5.7	8/16/2021	594.91	3.2	2.1	258467.413	13344498.63
1121	POAK	Pin Oak	Quercus palustris	1	16.7	0	0	0	0	0	GOOD			6.4	8/16/2021	588.844	2.9	2	258487.213	13344606.12
1122	SILM	Silver Maple	Acer saccharinum	1	9.5	0	0	0	0	0	GOOD			5.8	8/16/2021	591.374	3.9	2.4	258501.855	13344602.72
1123	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	3.3	8/16/2021	583.708	2.5	1.6	258517.627	13344599.98
1124	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	8/16/2021	588.622	2.6	1.9	258523.904	13344589.63
1125	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.5	8/16/2021	580.376	1.9	1.3	258522.09	13344569.5
1126	NORWM	Norway Maple	Acer platanoides	1	8	0	0	0	0	0	GOOD			2.7	8/16/2021	588.984	2.1	1.6	258516.19	13344565.56
1127	BLKC	Black Cherry	Prunus serotina	1	10.7	0	0	0	0	0	GOOD			2.4	8/16/2021	585.712	2.4	1.8	258521.105	13344557.18
1128	COT	Eastern Cottonwood	Populus deltoides	1	21.1	0	0	0	0	0	GOOD			2.8	8/16/2021	591.546	1.9	1.5	258565.11	13344606.58
1129	COT	Eastern Cottonwood	Populus deltoides	1	16.4	9.9	0	0	0	0	GOOD			3	8/16/2021	597.019	2.7	2.1	258567.101	13344565.58
1130	COT	Eastern Cottonwood	Populus deltoides	1	17.3	0	0	0	0	0	GOOD			2.8	8/16/2021	588.046	1.9	1.2	258551.126	13344639.68
1131	NORWM	Norway Maple	Acer platanoides	1	8	0	0	0	0	0	GOOD			2.5	8/16/2021	588.439	1.7	1.1	258580.902	13344637.37
1132	NORWM	Norway Maple	Acer platanoides	1	10.8	0	0	0	0	0	GOOD			4	8/16/2021	584.265	3.1	2	258520.21	13344636.87
1133	AELM	American elm	Ulmus americana	1	12.2	0	0	0	0	0	GOOD			3.7	8/16/2021	595.75	8.1	6.4	258534.46	13344662.86
1134	CEDAR	Red-Cedar	Juniperus virginiana	1	9.6	0	0	0	0	0	POOR		Structure	3.7	8/16/2021	587.184	2.7	1.6	258534.815	13344669.66

~~1135~~	COT	Eastern Cottonwood	Populus deltoides	1	16.9	14.9	0	0	0	0	GOOD			2.9	8/16/2021	587.594	2.9	1.6	258525.757	13344668.01
~~1136~~	WASH	White Ash	Fraxinus americana	1	9.4	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	4.3	8/16/2021	596.686	4.9	3	258521.088	13344664.82
~~1137~~	POAK	Pin Oak	Quercus palustris	1	8.4	0	0	0	0	0	GOOD			3.3	8/16/2021	592.328	2.3	1.4	258512.382	13344648.12
~~1138~~	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			2.7	8/16/2021	588.101	2.2	1.3	258476.063	13344620.28
~~1139~~	COT	Eastern Cottonwood	Populus deltoides	1	17.6	13.6	0	0	0	0	GOOD			2.6	8/16/2021	587.67	1.9	1.5	258452.782	13344614.42
~~1140~~	COT	Eastern Cottonwood	Populus deltoides	1	35.2	0	0	0	0	0	GOOD			3.5	8/16/2021	602.687	3.2	2	258460.642	13344617.24
~~1141~~	COT	Eastern Cottonwood	Populus deltoides	1	25.6	0	0	0	0	0	GOOD			5	8/16/2021	601.843	4.2	2.4	258451.821	13344622.95
~~1142~~	COT	Eastern Cottonwood	Populus deltoides	1	12.3	0	0	0	0	0	GOOD			3.3	8/16/2021	594.657	2.6	1.7	258466.183	13344642.44
~~1143~~	WASH	White Ash	Fraxinus americana	1	11.2	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	8/16/2021	597.281	2.2	2.1	258478.026	13344655.43
~~1144~~	SILM	Silver Maple	Acer saccharinum	1	13.7	12.2	0	0	0	0	GOOD			3.1	8/16/2021	601.118	2.2	1.6	258437.99	13344659.78
~~1145~~	TILIA	Basswood	Tilia americana	1	9.3	0	0	0	0	0	GOOD			5.5	8/16/2021	585.249	2.9	1.8	258386.658	13344680.74
~~1146~~	WASH	White Ash	Fraxinus americana	1	21.3	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity, STRUCTURE, Emerald Ash Borer	3.4	8/16/2021	608.755	4.3	2.5	258412.359	13344640.54
~~1147~~	ROAK	Red Oak	Quercus rubra	1	12.1	0	0	0	0	0	GOOD			6.4	8/16/2021	603.545	2.7	1.6	258389.622	13344751.66
~~1148~~	BLKC	Black Cherry	Prunus serotina	1	8.2	0	0	0	0	0	GOOD			3.5	8/16/2021	603.253	2.6	1.9	258374.594	13344737.07
~~1149~~	BLKC	Black Cherry	Prunus serotina	1	9.8	0	0	0	0	0	GOOD			2.8	8/16/2021	594.736	2.5	1.7	258379.674	13344748.79
~~1150~~	WASH	White Ash	Fraxinus americana	1	8.4	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.8	8/16/2021	588.213	2.9	2.1	258368.158	13344760.51
~~1151~~	AELM	American elm	Ulmus americana	1	13.2	0	0	0	0	0	GOOD			3.2	8/16/2021	590.821	2.7	1.8	258426.871	13344756.66
~~1152~~	GASH	Green Ash	Fraxinus pennsylvanica	1	13.1	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity, STRUCTURE, Emerald Ash Borer	3	8/16/2021	591.375	11.6	7.8	258429.549	13344733.68
~~1153~~	COT	Eastern Cottonwood	Populus deltoides	1	33.3	0	0	0	0	0	GOOD			3.8	8/16/2021	596.416	2.5	1.7	258434.55	13344737.78
~~1154~~	COT	Eastern Cottonwood	Populus deltoides	1	16.9	0	0	0	0	0	GOOD			4.4	8/16/2021	588.436	3	2	258435.65	13344741.22
~~1155~~	AELM	American elm	Ulmus americana	1	10.4	0	0	0	0	0	GOOD			3.3	8/16/2021	582.732	3.2	2.2	258429.916	13344722.9
~~1156~~	COT	Eastern Cottonwood	Populus deltoides	1	25	0	0	0	0	0	GOOD			9.9	8/16/2021	585.098	2.7	3.1	258470.163	13344696.47
~~1157~~	POAK	Pin Oak	Quercus palustris	1	16.7	0	0	0	0	0	GOOD			4.5	8/16/2021	593.458	2.8	2	258504.751	13344709.42
~~1158~~	COT	Eastern Cottonwood	Populus deltoides	1	23.7	0	0	0	0	0	GOOD			3	8/16/2021	591.448	3	2	258477.626	13344743.64
~~1159~~	COT	Eastern Cottonwood	Populus deltoides	1	22	0	0	0	0	0	GOOD			3.1	8/16/2021	589.754	1.9	1.3	258480.321	13344759.76
~~1160~~	AELM	American elm	Ulmus americana	1	14.5	0	0	0	0	0	GOOD			4.1	8/16/2021	583.291	4.3	2.8	258480.103	13344757.21
~~1161~~	COT	Eastern Cottonwood	Populus deltoides	1	33.1	0	0	0	0	0	GOOD			3.4	8/16/2021	584.536	5.4	3.7	258478.839	13344744.17
~~1162~~	COT	Eastern Cottonwood	Populus deltoides	1	22.5	0	0	0	0	0	GOOD			4.7	8/16/2021	603.355	5.3	3.7	258500.005	13344756.9
~~1163~~	AELM	American elm	Ulmus americana	1	8.4	0	0	0	0	0	GOOD			2.9	8/16/2021	582.215	2.7	1.8	258485.114	13344776.29
~~1164~~	COT	Eastern Cottonwood	Populus deltoides	1	28.7	0	0	0	0	0	GOOD			2.9	8/16/2021	597.996	1.7	1.2	258440.469	13344776.89
~~1165~~	COT	Eastern Cottonwood	Populus deltoides	1	23.7	0	0	0	0	0	GOOD			2.8	8/16/2021	591.303	2.5	1.5	258426.355	13344807.87
~~1166~~	AELM	American elm	Ulmus americana	1	10.8	0	0	0	0	0	GOOD			4.9	8/16/2021	590.85	10.6	7.3	258452.277	13344793.51
~~1167~~	GASH	Green Ash	Fraxinus pennsylvanica	1	8	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.9	8/16/2021	594.24	2.3	1.8	258396.26	13344845.77
~~1168~~	COT	Eastern Cottonwood	Populus deltoides	1	15.3	0	0	0	0	0	GOOD			2.9	8/16/2021	588.52	1.9	1.4	258448.929	13344910.78
~~1169~~	COT	Eastern Cottonwood	Populus deltoides	1	45	0	0	0	0	0	GOOD			3.2	8/16/2021	598.601	5.5	3.9	258439.895	13344902.03
~~1170~~	AELM	American elm	Ulmus americana	1	17	0	0	0	0	0	GOOD			3	8/16/2021	583.714	1.8	1.5	258425.447	13344924.61
~~1171~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			3.1	8/16/2021	587.233	2	1.4	258413.613	13344944.18
~~1172~~	REDBUD	Redbud	Cercis canadensis	1	10	8.5	8.5	0	0	0	GOOD			3.2	8/16/2021	602.526	7.1	5.7	258403.637	13344954.16
~~1173~~	SHAGH	Shagbark Hickory	Carya ovata	1	8.4	0	0	0	0	0	GOOD			3.6	8/16/2021	602.163	4.9	4	258419.11	13344984.84
~~1174~~	AELM	American elm	Ulmus americana	1	10.4	0	0	0	0	0	GOOD			3.1	8/16/2021	587.198	3.1	2.6	258421.252	13344979.8
~~1175~~	COT	Eastern Cottonwood	Populus deltoides	1	21.9	0	0	0	0	0	GOOD			3	8/16/2021	596.177	2	1.5	258450.39	13344968.4
~~1176~~	COT	Eastern Cottonwood	Populus deltoides	1	13.2	0	0	0	0	0	GOOD			2.5	8/16/2021	611.656	1.8	1.4	258455.973	13344982.66
~~1177~~	COT	Eastern Cottonwood	Populus deltoides	1	15.3	0	0	0	0	0	GOOD			13.4	8/16/2021	578.24	2.9	2.2	258451.79	13344976.81
~~1178~~	COT	Eastern Cottonwood	Populus deltoides	1	9.2	0	0	0	0	0	GOOD			3.4	8/16/2021	583.55	2.2	1.8	258456.547	13344985.71
~~1179~~	COT	Eastern Cottonwood	Populus deltoides	1	11.6	0	0	0	0	0	GOOD			3.4	8/16/2021	595.886	2.2	1.6	258456.91	13344993.67
~~1180~~	COT	Eastern Cottonwood	Populus deltoides	1	17.5	0	0	0	0	0	GOOD			3.4	8/16/2021	574.293	3	2.6	258459.893	13344985.63
~~1181~~	COT	Eastern Cottonwood	Populus deltoides	1	25	0	0	0	0	0	GOOD			3.2	8/16/2021	612.574	3.5	2.7	258448.638	13344998.82
~~1182~~	COT	Eastern Cottonwood	Populus deltoides	1	11.1	0	0	0	0	0	GOOD			3.4	8/16/2021	595.88	1.7	1.5	258464.497	13345002.29
~~1183~~	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			2.9	8/16/2021	593.751	5.8	4.3	258453.331	13344999.03
~~1184~~	BittHICK	Bittnut Hickory	Carya cordiformis	1	8	0	0	0	0	0	GOOD			3.2	8/16/2021	595.024	2.9	2.5	258453.387	13345015.9
~~1185~~	COT	Eastern Cottonwood	Populus deltoides	1	18.2	0	0	0	0	0	GOOD			12.2	8/16/2021	589.862	4.1	3.2	258464.757	13344982.17
~~1186~~	COT	Eastern Cottonwood	Populus deltoides	1	19.4	0	0	0	0	0	GOOD			3.3	8/16/2021	577.46	1.7	1.4	258461.953	13345028.31
~~1187~~	COT	Eastern Cottonwood	Populus deltoides	1	24.3	0	0	0	0	0	GOOD			3	8/16/2021	580.432	4.5	3.8	258455.873	13345022.64
~~1188~~	BittHICK	Bittnut Hickory	Carya cordiformis	1	8.3	0	0	0	0	0	GOOD			3.6	8/16/2021	622.398	2.7	2.9	258431.686	13345057.23
~~1189~~	BLKC	Black Cherry	Prunus serotina	1	15.8	0	0	0	0	0	GOOD			5.1	8/16/2021	585.128	2.6	2.4	258403.981	13345036.97
~~1190~~	COT	Eastern Cottonwood	Populus deltoides	1	30.1	0	0	0	0	0	GOOD			3.1	8/16/2021	599.676	2.4	1.9	258455.025	13345047.24
~~1191~~	SHAGH	Shagbark Hickory	Carya ovata	1	8	0	0	0	0	0	GOOD			2.6	8/16/2021	628.296	2.9	3.2	258455.318	13345072.64
~~1192~~	SHAGH	Shagbark Hickory	Carya ovata	1	8.1	0	0	0	0	0	GOOD			3.6	8/16/2021	601.679	6.8	5.7	258448.381	13345103.92
~~1193~~	WASH	White Ash	Fraxinus americana	1	13.5	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.7	8/16/2021	581.723	5.6	5.2	258410.663	13345090.42
~~1194~~	REMX	Red Maple	Acer x freemanii	1	8.9	0	0	0	0	0	GOOD			3.7	8/16/2021	576.269	5.6	5.1	258404.538	13345085.51
~~1195~~	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.9	8/16/2021	591.854	3.2	2.8	258382.044	13345103.82
~~1196~~	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			3	8/16/2021	591.297	2.8	2.6	258379.464	13345069.27
~~1197~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.5	8/16/2021	598.568	1.8	1.7	258388.864	13345052.94
~~1198~~	SHAGH	Shagbark Hickory	Carya ovata	1	10	0	0	0	0	0	GOOD			4.2	8/16/2021	597	13	11.1	258359.276	13345055.92
~~1199~~	COT	Eastern Cottonwood	Populus deltoides	1	19.6	17.7	0	0	0	0	GOOD			3.3	8/16/2021	595.788	4.2	4.2	258375.363	13345111.78
~~1200~~	COT	Eastern Cottonwood	Populus deltoides	1	22	0	0	0	0	0	GOOD			4.4	8/16/2021	606.979	3.8	4.3	258389.051	13345088.9
~~1201~~	SHAGH	Shagbark Hickory	Carya ovata	1	9.3	0	0	0	0	0	GOOD			3.1	8/17/2021	592.812	2	1.5	258430.981	13345126.55
~~1202~~	SHAGH	Shagbark Hickory	Carya ovata	1	10.2	0	0	0	0	0	GOOD			3.9	8/17/2021	597.968	4.7	3.5	258419.552	13345117.36
~~1203~~	SHAGH	Shagbark Hickory	Carya ovata	1	9	0	0	0	0	0	GOOD			3.3	8/17/2021	608.345	3.8	2.7	258435.929	13345126.41
~~1204~~	SHAGH	Shagbark Hickory	Carya ovata	1	8	0	0	0	0	0	GOOD			4.8	8/17/2021	592.477	3.6	2.3	258402.981	13345125.18
~~1205~~	SHAGH	Shagbark Hickory	Carya ovata	1	8	0	0	0	0	0	GOOD			4.6	8/17/2021	584.243	2.8	1.8	258393.934	13345134.39
~~1206~~	SHAGH	Shagbark Hickory	Carya ovata	1	8	0	0	0	0	0	GOOD			3	8/17/2021	612.136	4.5	3.3	258393.572	13345128.85
~~1207~~	SHAGH	Shagbark Hickory	Carya ovata	1	11.5	0	0	0	0	0	GOOD			2.8	8/17/2021	588.132	2.1	1.6	258396.343	13345133.09
~~1208~~	COT	Eastern Cottonwood	Populus deltoides	1	8.3	0	0	0	0	0	GOOD			4	8/17/2021	592.869	2.1	1.5	258366.214	13345137.16
~~1209~~	COT	Eastern Cottonwood	Populus deltoides	1	8.4	0	0	0	0	0	GOOD			4	8/17/2021	595.628	1.7	1.5	258361.769	13345125.85
~~1210~~	SHAGH	Shagbark Hickory	Carya ovata	1	9	0	0	0	0	0	GOOD			2.9	8/17/2021	579.7	2.1	1.4	258367.675	13345104.1
~~1211~~	SHAGH	Shagbark Hickory	Carya ovata	1	8.3	0	0	0	0	0	GOOD			2.4	8/17/2021	592.928	2.5	1.8	258325.968	13345135.69
~~1212~~	BLKC	Black Cherry	Prunus serotina	1	14.6	0	0	0	0	0	GOOD			141.3	8/17/2021	603.656	2.4	2	258318.937	13345156.48
~~1213~~	BOXE	Box-Elder	Acer negundo	1	9.1	0	0	0	0	0	POOR		Structure	3	8/17/2021	587.487	3.2	2.1	258287.381	13345134.53
~~1214~~	BLKC	Black Cherry	Prunus serotina	1	16.2	0	0	0	0	0	GOOD			5.4	8/17/2021	586.155	2.6	1.8	258265.595	13345143.93
~~1215~~	BLKL	Black Locust	Robinia pseudoacacia	1	15.4	0	0	0	0	0	GOOD			3	8/17/2021	582.65	2.9	2.2	258249.724	13345149.41
~~1216~~	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			2.9	8/17/2021	598.72	2	1.5	258229.673	13345157.97
~~1217~~	BLKL	Black Locust	Robinia pseudoacacia	1	9.2	0	0	0	0	0	GOOD			2.8	8/17/2021	597.206	2	1.8	258233.097	13345162.31
~~1218~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.8	0	0	0	0	0	GOOD			5.5	8/17/2021	585.333	11	12.4	258244.242	13345129.75
~~1219~~	BLKC	Black Cherry	Prunus serotina	1	9.2	0	0	0	0	0	GOOD			3	8/17/2021	596.006	1.8	1.4	258187.519	13345150.78
~~1220~~	BLKL	Black Locust	Robinia pseudoacacia	1	9.3	0	0	0	0	0	GOOD			3.5	8/17/2021	601.508	3.4	3	258183.126	13345144.44
~~1221~~	BLKL	Black Locust	Robinia pseudoacacia	1	18	0	0	0	0	0	GOOD			2.9	8/17/2021	585.078	1.9	1.5	258204.218	13345175.91
~~1222~~	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			3.6	8/17/2021	611.266	2.5	1.8	258192.448	13345179.48
~~1223~~	BLKL	Black Locust	Robinia pseudoacacia	1	11	9.9	0	0	0	0	GOOD			3.4	8/17/2021	613.21	2.6	2.3	258180.656	13345210.17
~~1224~~	MUL	White Mulberry	Morus alba	1	13.2	11	0	0	0	0	FAIR			3.2	8/17/2021	596.232	1.7	1.5	258148.366	13345141.85
~~1225~~	MUL	White Mulberry	Morus alba	1	13.3	10.6	0	0	0	0	GOOD			2.8	8/17/2021	596.364	4	3.2	258144.886	13345175.11
~~1226~~	TOH	Tree-of-Heaven	Ailanthus altissima	1	10.2	9.7	9.2	8.4	8.2	0	GOOD			7.4	8/17/2021	601.284	2	1.9	258149.194	13345220.09
~~1227~~	MUL	White Mulberry	Morus alba	1	11.6	9.3	0	0	0	0	GOOD			6.9	8/17/2021	608.012	3.5	3.6	258165.511	13345239.48
~~1228~~	BLKL	Black Locust	Robinia pseudoacacia	1	17.5	0	0	0	0	0	GOOD			6.6	8/17/2021	590.368	2	1.8	258194.827	13345217.2
~~1229~~	BLKL	Black Locust	Robinia pseudoacacia	1	14.1	0	0	0	0	0	GOOD			3.5	8/17/2021	576.653	2	1.8	258208.436	13345221.21
~~1230~~	BLKL	Black Locust	Robinia pseudoacacia	1	13.3	0	0	0	0	0	GOOD			7.2	8/17/2021	592.6	2.6	2.4	258198.14	13345231.99
~~1231~~	BLKL	Black Locust	Robinia pseudoacacia	1	20.9	0	0	0	0	0	GOOD			5.9	8/17/2021	594.291	4.9	5	258211.016	13345234.16
~~1232~~	BLKL	Black Locust	Robinia pseudoacacia	1	17	0	0	0	0	0	GOOD			2.9	8/17/2021	584.215	1.8	1.9	258233.982	13345237.33
~~1233~~	BLKL	Black Locust	Robinia pseudoacacia	1	14.8	0	0	0	0	0	GOOD			3.1	8/17/2021	581.096	3.9	3.2	258225.889	13345218.75
~~1234~~	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			2.7	8/17/2021	587.751	2.6	2.2	258214.19	13345186.64
~~1235~~	BOXE	Box-Elder	Acer negundo	1	9	0	0	0	0	0	GOOD			8.3	8/17/2021	601.888	6.3	6.1	258232.221	13345218.87
~~1236~~	BOXE	Box-Elder	Acer negundo	1	9.7	0	0	0	0	0	GOOD			3.2	8/17/2021	585.504	2.6	1.9	258232.506	13345220.95
~~1237~~	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			2.7	8/17/2021	596.267	4.4	3.9	258232.495	13345220.87
~~1238~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			6.7	8/17/2021	607.627	4.3	4.2	258267.677	13345207.18
~~1239~~	BLKL	Black Locust	Robinia pseudoacacia	1	17.7	13.2	0	0	0	0	GOOD			2.8	8/17/2021	595.314	2.4	2	258251.63	13345185.47
~~1240~~	MUL	White Mulberry	Morus alba	1	9.8	0	0	0	0	0	GOOD			141.3	8/17/2021	611.316	3.6	3.3	258295.366	13345201.3
~~1241~~	MUL	White Mulberry	Morus alba	1	10.4	0	0	0	0	0	GOOD			3	8/17/2021	592.443	2.2	2	258310.664	13345170.07
~~1242~~	MUL	White Mulberry	Morus alba	1	9.7	0	0	0	0	0	GOOD			3	8/17/2021	587.116	2.1	2.1	258326.534	13345193.66
~~1243~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.1	0	0	0	0	0	GOOD			4	8/17/2021	592.331	2.1	1.9	258336.548	13345205.08
~~1244~~	COT	Eastern Cottonwood	Populus deltoides	1	75	0	0	0	0	0	GOOD			4.9	8/17/2021	598.277	2.5	2.4	258338.037	13345210.45
~~1245~~	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	GOOD			3.4	8/17/2021	591.994	3.7	3.4	258350.666	13345212.75
~~1246~~	COT	Eastern Cottonwood	Populus deltoides	1	13.4	10.9	0	0	0	0	GOOD			7.7	8/17/2021	580.388	4.3	3.4	258363.06	13345222.66
~~1247~~	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			3	8/17/2021	610.858	9.5	8.6	258345.207	13345227.59
~~1248~~	COT	Eastern Cottonwood	Populus deltoides	1	10.3	0	0	0	0	0	GOOD			3.2	8/17/2021	580.829	3.1	3.1	258362.644	13345175.23
~~1249~~	SHAGH	Shagbark Hickory	Carya ovata	1	10.6	0	0	0	0	0	GOOD			4.2	8/17/2021	608.259	2.2	1.7	258303.973	13345130.69
~~1250~~	COT	Eastern Cottonwood	Populus deltoides	1	9.1	0	0	0	0	0	GOOD			3.4	8/17/2021	589.136	5.3	4.3	258366.584	13345142.64
~~1251~~	SHAGH	Shagbark Hickory	Carya ovata	1	9.1	0	0	0	0	0	GOOD			49.8	8/17/2021	606.575	11.6	9.4	258369.706	13345174.61
~~1252~~	SHAGH	Shagbark Hickory	Carya ovata	1	8.6	0	0	0	0	0	GOOD			4.8	8/17/2021	579.35	3.2	2.3	258390.141	13345171.89
~~1253~~	TILIA	Basswood	Tilia americana	1	9	0	0	0	0	0	GOOD			3.6	8/17/2021	569.403	3.2	2.9	258388.904	13345171.41
~~1254~~	TILIA	Basswood	Tilia americana	1	9.5	0	0	0	0	0	GOOD			3.4	8/17/2021	569.202	2.2	1.7	258395.328	13345184.8
~~1255~~	SHAGH	Shagbark Hickory	Carya ovata	1	8	0	0	0	0	0	GOOD			3.5	8/17/2021	575.105	2.3	2.1	258390.782	13345166.92
~~1256~~	SHAGH	Shagbark Hickory	Carya ovata	1	8.4	0	0	0	0	0	GOOD			3.5	8/17/2021	580.324	1.8	1.4	258395.114	13345154.53
~~1257~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3	8/17/2021	599.998	3.1	2.6	258410.765	13345175.6
~~1258~~	SHAGH	Shagbark Hickory	Carya ovata	1	8	0	0	0	0	0	GOOD			2.8	8/17/2021	591.65	4.2	4	258459.15	13345154.55
~~1259~~	SHAGH	Shagbark Hickory	Carya ovata	1	8.7	0	0	0	0	0	GOOD			3.6	8/17/2021	584.817	3.1	3.2	258461.091	13345135.57
~~1260~~	COT	Eastern Cottonwood	Populus deltoides	1	22.9	22.0	0	0	0	0	GOOD			2.9	8/17/2021	630.099	7.1	5.7	258450.306	13345202.37
~~1261~~	SHAGH	Shagbark Hickory	Carya ovata	1	8	0	0	0	0	0	GOOD			3.7	8/17/2021	605.237	3.4	3.2	258472.328	13345187.85
~~1262~~	NORWM	Norway Maple	Acer platanoides	1	8	0	0	0	0	0	GOOD			2.9	8/17/2021	591.102	2.5	2.5	258464.832	13345204.71
~~1263~~	COT	Eastern Cottonwood	Populus deltoides	1	21.9	0	0	0	0	0	GOOD			2.9	8/17/2021	539.411	3	2.2	258468.482	13345190.29
~~1264~~	COT	Eastern Cottonwood	Populus deltoides	1	28.4	0	0	0	0	0	GOOD			6.7	8/17/2021	526.321	5.9	5	258495.86	13345227.72
~~1265~~	COT	Eastern Cottonwood	Populus deltoides	1	20.4	0	0	0	0	0	GOOD			5.4	8/17/2021	604.252	7.1	4.4	258463.131	13345239.71
~~1266~~	COT	Eastern Cottonwood	Populus deltoides	1	22.5	15.1	0	0	0	0	GOOD			7.8	8/17/2021	581.416	4.9	3.5	258483.07	13345247.25
~~1267~~	AELM	American elm	Ulmus americana	1	10.8	0	0	0	0	0	GOOD			3.3	8/17/2021	586.337	1.7	1.6	258426.254	13345237.07
~~1268~~	AELM	American elm	Ulmus americana	1	8.4	0	0	0	0	0	GOOD			4.4	8/17/2021	583.722	4.8	4.4	258427.602	13345244.84
~~1269~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.6	0	0	0	0	0	GOOD			4.4	8/17/2021	590.288	3.3	2.3	258394.421	13345271.56
~~1270~~	NORWM	Norway Maple	Acer platanoides	1	9.1	0	0	0	0	0	GOOD			4	8/17/2021	588.645	5.6	5.5	258365.68	13345255.24
~~1271~~	COT	Eastern Cottonwood	Populus deltoides	1	9.8	0	0	0	0	0	GOOD			9.9	8/17/2021	627.44	15.9	9.3	258345.694	13345271.42
~~1272~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.4	0	0	0	0	0	GOOD			2.9	8/17/2021	607.622	8.7	7.8	258342.803	13345251.52
~~1273~~	COT	Eastern Cottonwood	Populus deltoides	1	27.5	0	0	0	0	0	GOOD			4	8/17/2021	616.26	8.8	5.6	258320.726	13345266.66
~~1274~~	MUL	White Mulberry	Morus alba	1	9.5	0	0	0	0	0	GOOD			2.9	8/17/2021	614.71	2.5	1.4	258297.335	13345255.93
~~1275~~	BLKL	Black Locust	Robinia pseudoacacia	1	21.7	19	0	0	0	0	GOOD			6.7	8/17/2021	604.423	2.3	1.9	258277.745	13345237.58
~~1276~~	BLKL	Black Locust	Robinia pseudoacacia	1	12.6	0	0	0	0	0	POOR			2.9	8/17/2021	590.664	3.6	2.2	258274.086	13345247.6
~~1277~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	10.9	0	0	0	0	GOOD			9.1	8/17/2021	632.59	5.3	3.5	258252.481	13345258.12
~~1278~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			4.3	8/17/2021	653.365	5.5	3.1	258246.278	13345260.01
~~1279~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.7	0	0	0	0	0	GOOD			4	8/17/2021	619.291	5.4	3.5	258258.26	13345250.76
~~1280~~	BLKL	Black Locust	Robinia pseudoacacia	1	20.8	20.6	9.5	0	0	0	GOOD			5	8/17/2021	597.012	2.1	1.5	258222.838	13345254.12
~~1281~~	BLKL	Black Locust	Robinia pseudoacacia	1	16.8	0	0	0	0	0	GOOD			7.1	8/17/2021	585.437	3.3	2	258229.309	13345262.45
~~1282~~	BLKL	Black Locust	Robinia pseudoacacia	1	14.3	0	0	0	0	0	GOOD			2.4	8/17/2021	597.765	5.5	3.3	258209.851	13345291.75
~~1283~~	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			8.1	8/17/2021	605.014	2.9	1.8	258185.112	13345299.75
~~1284~~	SILM	Silver Maple	Acer saccharinum	1	24.2	23.2	19.7	0	0	0	GOOD			4.2	8/17/2021	610.271	4.4	3.8	258168.104	13345323.04
1285	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	FAIR		Structure	3.2	8/17/2021	596.572	2.7	1.8	258133.308	13345343.04
1286	MUL	White Mulberry	Morus alba	1	12.4	0	0	0	0	0	FAIR			3.3	8/17/2021	594.763	2	1.7	258123.532	13345315.55
~~1287~~	BLKL	Black Locust	Robinia pseudoacacia	1	8.4	0	0	0	0	0	GOOD			3.7	8/17/2021	598.019	1.8	1.1	258170.151	13345348.29
~~1288~~	MUL	White Mulberry	Morus alba	1	11.4	0	0	0	0	0	GOOD			2.9	8/17/2021	592.604	3.1	2.5	258142.782	13345371.06
~~1289~~	BLKC	Black Cherry	Prunus serotina	1	9.4	0	0	0	0	0	GOOD			4.5	8/17/2021	598.807	2.4	1.6	258147.425	13345374.74
~~1290~~	MUL	White Mulberry	Morus alba	1	8.7	0	0	0	0	0	GOOD			3.7	8/17/2021	597.472	2.7	2.2	258168.709	13345383.98
~~1291~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.7	0	0	0	0	0	GOOD			5.2	8/17/2021	595.823	4.6	2.2	258171.616	13345384.52
~~1292~~	COT	Eastern Cottonwood	Populus deltoides	1	12.1	0	0	0	0	0	GOOD			2.9	8/17/2021	593.019	2.7	2.1	258193.042	13345351.04
~~1293~~	BLKL	Black Locust	Robinia pseudoacacia	1	18.7	0	0	0	0	0	GOOD			141.3	8/17/2021	596.127	2.6	2	258203.277	13345315.46
~~1294~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.2	9.5	0	0	0	0	GOOD			4.6	8/17/2021	587.603	2	1.3	258222.304	13345290.31
~~1295~~	BLKL	Black Locust	Robinia pseudoacacia	1	17.1	0	0	0	0	0	GOOD			3.7	8/17/2021	597.060	2.6	2.2	258225.024	13345298.65
~~1296~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	GOOD			4.5	8/17/2021	592.746	2.5	1.6	258237.656	13345308.49

TREE REMOVAL LEGEND

~~00~~ INDICATES EXISTING TREE TO BE REMOVED

00 INDICATES EXISTING TREE TO REMAIN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
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SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Tree List

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: M. Carnaghi

DESIGNED BY:

APPROVED BY: K. Navaroli

DATE: September 24, 2021

SCALE: N.T.S.

NFE JOB NO. M278-01

SHEET NO. SP 1.25

1297	BLKL	Black Locust	Robinia pseudoacacia	1	14.7	0	0	0	0	0	GOOD			3.8	8/17/2021	639.591	5.8	4.1	258226.396	13345327.94
1298	SIBE	Siberian elm	Ulmus pumila	1	8.7	0	0	0	0	0	GOOD			5.1	8/17/2021	611.149	2.3	1.7	258244.087	13345335.97
1299	BLKL	Black Locust	Robinia pseudoacacia	1	17.3	11.6	0	0	0	0	GOOD			141.3	8/17/2021	636.955	4.8	3.4	258240.346	13345328.68
1300	BOXE	Box-Elder	Acer negundo	1	10.5	0	0	0	0	0	GOOD			141.3	8/17/2021	592.674	2.2	1.5	258249.712	13345318.84
1301	BLKL	Black Locust	Robinia pseudoacacia	1	17.6	0	0	0	0	0	GOOD			3.8	8/17/2021	608.525	2.1	1.6	258257.331	13345313.55
1302	BLKL	Black Locust	Robinia pseudoacacia	1	12.2	0	0	0	0	0	GOOD			4	8/17/2021	601.344	2.5	1.8	258255.031	13345322.03
1303	BLKL	Black Locust	Robinia pseudoacacia	1	10.3	0	0	0	0	0	GOOD			2.9	8/17/2021	591.349	1.9	1.3	258272.057	13345322.11
1304	BLKL	Black Locust	Robinia pseudoacacia	1	15.8	0	0	0	0	0	POOR		Structure	3.5	8/17/2021	591.347	3.1	3.1	258277.792	13345331.41
1305	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			4.8	8/17/2021	591.352	2	1.5	258278.11	13345304.49
1306	BLKL	Black Locust	Robinia pseudoacacia	1	15.6	0	0	0	0	0	GOOD			3	8/17/2021	595.152	3	2.4	258273.434	13345311.15
1307	BLKL	Black Locust	Robinia pseudoacacia	1	10.7	0	0	0	0	0	GOOD			2.9	8/17/2021	616.73	2.5	1.6	258273.414	13345291.36
1308	BLKL	Black Locust	Robinia pseudoacacia	1	12.5	0	0	0	0	0	GOOD			4.5	8/17/2021	609.082	6.9	5.4	258268.724	13345295.6
1309	BLKC	Black Cherry	Prunus serotina	1	12.1	0	0	0	0	0	GOOD			3.3	8/17/2021	601.513	1.7	1.3	258288.638	13345278.28
1310	BLKC	Black Cherry	Prunus serotina	1	11.1	0	0	0	0	0	GOOD			3.6	8/17/2021	600.791	5	4.1	258285.225	13345277.1
1311	BLKL	Black Locust	Robinia pseudoacacia	1	12.6	0	0	0	0	0	GOOD			3.2	8/17/2021	605.485	3.6	2.7	258283.084	13345288.74
1312	BLKL	Black Locust	Robinia pseudoacacia	1	13.1	0	0	0	0	0	GOOD			3	8/17/2021	609.522	1.9	1.4	258303.38	13345292.87
1313	BLKL	Black Locust	Robinia pseudoacacia	1	12.7	0	0	0	0	0	GOOD			3	8/17/2021	616.465	2.1	1.6	258302.133	13345295.5
1314	BLKL	Black Locust	Robinia pseudoacacia	1	13.7	0	0	0	0	0	GOOD			3.3	8/17/2021	599.666	3.3	2.5	258310.569	13345281.7
1315	BLKL	Black Locust	Robinia pseudoacacia	1	11.5	0	0	0	0	0	FAIR		Structure	2.7	8/17/2021	603.249	2.1	1.8	258314.466	13345285.22
1316	BLKL	Black Locust	Robinia pseudoacacia	1	15.4	8.6	0	0	0	0	GOOD			3	8/17/2021	594.886	3.3	2.3	258342.976	13345265.75
1317	BLKL	Black Locust	Robinia pseudoacacia	1	18.1	0	0	0	0	0	GOOD			2.9	8/17/2021	601.822	2.5	1.8	258344.632	13345281.75
1318	MUL	White Mulberry	Morus alba	1	9.6	0	0	0	0	0	GOOD			3	8/17/2021	614.056	3.3	2.5	258352.091	13345287.48
1319	BLKL	Black Locust	Robinia pseudoacacia	1	16.5	0	0	0	0	0	GOOD			3.9	8/17/2021	602.672	2.3	1.9	258352.347	13345293.09
1320	BLKL	Black Locust	Robinia pseudoacacia	1	17	14.2	0	0	0	0	GOOD			3.4	8/17/2021	596.26	1.7	1.6	258367.451	13345277.6
1321	BLKL	Black Locust	Robinia pseudoacacia	1	14	0	0	0	0	0	GOOD			3	8/17/2021	601.938	4.4	4.3	258380.14	13345310.2
1322	AELM	American elm	Ulmus americana	1	12	0	0	0	0	0	GOOD			2.8	8/17/2021	600.124	4.1	3.2	258406.323	13345296.67
1323	MUL	White Mulberry	Morus alba	1	11.5	0	0	0	0	0	GOOD			6	8/17/2021	579.378	4.7	3.3	258209.94	13345336.2
1324	BLKL	Black Locust	Robinia pseudoacacia	1	17.5	0	0	0	0	0	GOOD			23.3	8/17/2021	557.062	4.9	3.4	258219.786	13345349.4
1325	BLKL	Black Locust	Robinia pseudoacacia	1	17.5	0	0	0	0	0	GOOD			7.5	8/17/2021	587.762	3.9	4.7	258207.209	13345360.51
1326	BLKL	Black Locust	Robinia pseudoacacia	1	11.3	0	0	0	0	0	GOOD			5.6	8/17/2021	596.298	7.4	5	258207.713	13345361.49
1327	BLKL	Black Locust	Robinia pseudoacacia	1	14.5	0	0	0	0	0	GOOD			5.5	8/17/2021	603.452	2.4	1.8	258211.425	13345389.86
1328	COT	Eastern Cottonwood	Populus deltoides	1	12.3	0	0	0	0	0	GOOD			6.8	8/17/2021	583.17	12.4	8.7	258233.459	13345373.83
1329	COT	Eastern Cottonwood	Populus deltoides	1	11	0	0	0	0	0	GOOD			5.5	8/17/2021	580.233	9.6	6.8	258233.965	13345370.16
1330	BLKL	Black Locust	Robinia pseudoacacia	1	8.7	0	0	0	0	0	GOOD			5.4	8/17/2021	579.015	9.2	5.7	258238.019	13345359.59
1331	AELM	American elm	Ulmus americana	1	12.3	0	0	0	0	0	GOOD			5.6	8/17/2021	619.492	2.7	2	258228.381	13345351.15
1332	BLKL	Black Locust	Robinia pseudoacacia	1	18.5	0	0	0	0	0	GOOD			15.1	8/17/2021	610.978	18.3	12.8	258236.854	13345378.97
1333	BLKL	Black Locust	Robinia pseudoacacia	1	18.8	0	0	0	0	0	GOOD			5.5	8/17/2021	610.595	3	2	258242.049	13345364.74
1334	BLKL	Black Locust	Robinia pseudoacacia	1	20.1	0	0	0	0	0	GOOD			5.6	8/17/2021	591.08	3.5	2.3	258262.426	13345372.03
1335	BOXE	Box-Elder	Acer negundo	1	11.5	0	0	0	0	0	GOOD			5.8	8/17/2021	577.318	2.9	2.1	258271.153	13345350.86
1336	BLKL	Black Locust	Robinia pseudoacacia	1	12.7	0	0	0	0	0	GOOD			6.8	8/17/2021	619.879	3	2.6	258268.746	13345356.75
1337	BLKL	Black Locust	Robinia pseudoacacia	1	20.4	0	0	0	0	0	GOOD			4.5	8/17/2021	610.65	2.9	2.8	258279.502	13345356.95
1338	BLKL	Black Locust	Robinia pseudoacacia	1	19.4	0	0	0	0	0	GOOD			5.8	8/17/2021	598.209	4.8	3.5	258277.404	13345351.98
1339	BLKL	Black Locust	Robinia pseudoacacia	1	10	0	0	0	0	0	GOOD			2.9	8/17/2021	595.513	4.7	4.1	258285.59	13345365.51
1340	BOXE	Box-Elder	Acer negundo	1	8.7	0	0	0	0	0	GOOD			7.1	8/17/2021	599.458	3.2	2.4	258276.425	13345359.8
1341	BLKL	Black Locust	Robinia pseudoacacia	1	9.7	0	0	0	0	0	GOOD			3.1	8/17/2021	588.955	3.6	2.7	258288.957	13345323.96
1342	BLKL	Black Locust	Robinia pseudoacacia	1	9.7	0	0	0	0	0	GOOD			3	8/17/2021	626.065	6	4.2	258289.326	13345337.62
1343	BLKL	Black Locust	Robinia pseudoacacia	1	22.1	0	0	0	0	0	GOOD			4.7	8/17/2021	616.085	3	2	258283.035	13345315.02
1344	BOXE	Box-Elder	Acer negundo	1	9.1	0	0	0	0	0	GOOD			3.2	8/17/2021	594.528	3	2.1	258285.57	13345320.6
1345	BLKL	Black Locust	Robinia pseudoacacia	1	12.4	0	0	0	0	0	GOOD			3.3	8/17/2021	600.219	2.8	2	258304.119	13345300.52
1346	BLKL	Black Locust	Robinia pseudoacacia	1	11.7	0	0	0	0	0	GOOD			3	8/17/2021	598.725	2	1.6	258318.688	13345307.31
1347	BLKL	Black Locust	Robinia pseudoacacia	1	12.8	0	0	0	0	0	GOOD			5.9	8/17/2021	611.966	3.3	2.1	258308.312	13345313.78
1348	BLKL	Black Locust	Robinia pseudoacacia	1	8.5	0	0	0	0	0	GOOD			3.1	8/17/2021	600.226	3.8	2.4	258304.244	13345319.17
1349	BLKL	Black Locust	Robinia pseudoacacia	1	13.5	0	0	0	0	0	GOOD			5.9	8/17/2021	601.484	9.6	6.1	258304.972	13345350.37
1350	BLKL	Black Locust	Robinia pseudoacacia	1	13.7	0	0	0	0	0	GOOD			3.6	8/17/2021	608.865	4.1	2.6	258318.05	13345346.46
1351	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			3.4	8/17/2021	597.599	2.6	1.8	258320.7	13345339.41
1352	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.8	8/17/2021	594.911	4.2	3.1	258329.248	13345348.67
1353	BLKL	Black Locust	Robinia pseudoacacia	1	19.1	0	0	0	0	0	GOOD			7	8/17/2021	571.03	7.1	4.9	258316.374	13345344.78
1354	BLKL	Black Locust	Robinia pseudoacacia	1	14.5	9.6	0	0	0	0	GOOD			3.7	8/17/2021	598.429	2.5	1.7	258341.537	13345373.03
1355	BLKL	Black Locust	Robinia pseudoacacia	1	12.2	0	0	0	0	0	GOOD			6.8	8/17/2021	589.093	2.2	1.7	258350.121	13345365.49
1356	BLKL	Black Locust	Robinia pseudoacacia	1	10.8	0	0	0	0	0	GOOD			3.8	8/17/2021	582.568	3.9	2.6	258359.25	13345368.78
1357	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	GOOD			2.7	8/17/2021	582.114	1.9	1.3	258359.569	13345368.99
1358	MUL	White Mulberry	Morus alba	1	8.1	0	0	0	0	0	GOOD			5.6	8/17/2021	603.312	2.1	1.4	258348.139	13345355.52
1359	AELM	American elm	Ulmus americana	1	10.1	0	0	0	0	0	GOOD			5.4	8/17/2021	595.29	4	2.6	258334.324	13345321.04
1360	MUL	White Mulberry	Morus alba	1	13.2	0	0	0	0	0	GOOD			4.5	8/17/2021	595.343	2.4	1.8	258354.985	13345325.6
1361	COT	Eastern Cottonwood	Populus deltoides	1	42	0	0	0	0	0	GOOD			5.8	8/17/2021	605.716	2.4	1.6	258411.585	13345320.76
1362	REDBUD	Redbud	Cercis canadensis	1	8	0	0	0	0	0	FAIR		TRUNK LEAN	2.8	8/17/2021	593.891	2	1.8	258424.436	13345301.39
1363	COT	Eastern Cottonwood	Populus deltoides	1	26.7	0	0	0	0	0	GOOD			4	8/17/2021	576.184	2.8	1.9	258480.995	13345353.3
1364	COT	Eastern Cottonwood	Populus deltoides	1	25.7	0	0	0	0	0	GOOD			2.8	8/17/2021	597.297	2.6	1.9	258414.775	13345378.06
1365	COT	Eastern Cottonwood	Populus deltoides	1	16.7	0	0	0	0	0	GOOD			4.3	8/17/2021	593.976	3.7	2.3	258409.781	13345410.45
1366	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	GOOD			2.9	8/17/2021	586.645	1.8	1.2	258428.543	13345405.59
1367	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	GOOD			3.3	8/17/2021	587.53	2.4	1.5	258427.366	13345406.3
1368	SILM	Silver Maple	Acer saccharinum	1	23.6	0	0	0	0	0	GOOD			3.1	8/17/2021	579.138	2.4	1.6	258415.413	13345416.07
1369	COT	Eastern Cottonwood	Populus deltoides	1	28.7	0	0	0	0	0	GOOD			2.7	8/17/2021	592.669	2.4	1.5	258363.383	13345427.69
1370	COT	Eastern Cottonwood	Populus deltoides	1	19.6	0	0	0	0	0	GOOD			2.9	8/17/2021	597.355	2.8	2	258371.571	13345440.7
1371	BLKL	Black Locust	Robinia pseudoacacia	1	15.4	0	0	0	0	0	GOOD			2.8	8/17/2021	585.676	3.2	2.3	258364.388	13345437.27
1372	BLKL	Black Locust	Robinia pseudoacacia	1	19.6	8.7	0	0	0	0	GOOD			3	8/17/2021	597.313	6.8	4.5	258344.79	13345408.63
1373	BLKL	Black Locust	Robinia pseudoacacia	1	13.9	0	0	0	0	0	GOOD			2.9	8/17/2021	588.879	3.2	2.2	258341.492	13345385.05
1374	BLKL	Black Locust	Robinia pseudoacacia	1	12	0	0	0	0	0	GOOD			2.8	8/17/2021	597.044	7.4	4.7	258336.034	13345387.71
1375	BLKL	Black Locust	Robinia pseudoacacia	1	14.5	0	0	0	0	0	GOOD			2.9	8/17/2021	608.92	2.2	1.6	258332.782	13345393.41
1376	BLKL	Black Locust	Robinia pseudoacacia	1	12.8	0	0	0	0	0	GOOD			2.9	8/17/2021	620.291	2.4	1.5	258320.869	13345381.96
1377	SILM	Silver Maple	Acer saccharinum	1	12.6	0	0	0	0	0	GOOD			4.2	8/17/2021	598.87	5.1	3	258308.098	13345397.18
1378	BLKL	Black Locust	Robinia pseudoacacia	1	20.1	0	0	0	0	0	GOOD			3.2	8/17/2021	587.197	3	2	258261.375	13345381.7
1379	BLKL	Black Locust	Robinia pseudoacacia	1	10.3	0	0	0	0	0	GOOD			3.7	8/17/2021	576.321	2.5	1.4	258250.12	13345380.67
1380	BLKL	Black Locust	Robinia pseudoacacia	1	25.6	0	0	0	0	0	GOOD			3.7	8/17/2021	645.31	6.2	4.9	258238.037	13345384.84
1381	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			3.9	8/17/2021	592.572	2	1.2	258234.154	13345388.6
1382	BLKL	Black Locust	Robinia pseudoacacia	1	17.7	0	0	0	0	0	GOOD			11.9	8/17/2021	640.237	9.8	5.3	258223.615	13345383.74
1383	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3.3	8/17/2021	613.619	2.2	1.3	258213.387	13345403.86
1384	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.1	8/17/2021	604.397	3.2	2.2	258189.111	13345409.02
1385	BLKL	Black Locust	Robinia pseudoacacia	1	14.1	0	0	0	0	0	GOOD			3.9	8/17/2021	594.566	2.3	1.3	258214.933	13345407.02
1386	BOXE	Box-Elder	Acer negundo	1	16.4	0	0	0	0	0	GOOD			7.2	8/17/2021	595.569	2.5	1.7	258186.888	13345407.74
1387	BOXE	Box-Elder	Acer negundo	1	11.6	0	0	0	0	0	GOOD			5.1	8/17/2021	587.627	3	1.7	258191.882	13345410.62
1388	BOXE	Box-Elder	Acer negundo	1	11.1	0	0	0	0	0	GOOD			5.8	8/17/2021	598.267	2.1	1.3	258136.181	13345409.01
1389	BLKL	Black Locust	Robinia pseudoacacia	1	25.9	0	0	0	0	0	GOOD			2.9	8/17/2021	591.877	1.9	1.3	258141.255	13345441.31
1390	SASS	Sassafras	Sassafras albidum	1	8.6	0	0	0	0	0	GOOD			24.3	8/17/2021	590.193	2.6	1.4	258173.446	13345450.61
1391	SWEETC	Sweet Cherry	Prunus avium	1	14.6	0	0	0	0	0	GOOD			4	8/17/2021	590.15	2.3	1.5	258186.602	13345470.84
1392	BOXE	Box-Elder	Acer negundo	1	15.7	10.5	0	0	0	0	POOR			4.3	8/17/2021	592.947	2.5	1.6	258191.983	13345438.77
1393	SWEETC	Sweet Cherry	Prunus avium	1	33	0	0	0	0	0	GOOD			8.9	8/17/2021	584.119	2.3	1.4	258238.11	13345434.2
1394	SWEETC	Sweet Cherry	Prunus avium	1	10	0	0	0	0	0	GOOD			141.3	8/17/2021	610.929	3.9	2.4	258247.412	13345437.01
1395	SIBE	Siberian elm	Ulmus pumila	1	11.1	0	0	0	0	0	GOOD			4.1	8/17/2021	585.671	2.7	1.7	258243.675	13345447.08
1396	BLKL	Black Locust	Robinia pseudoacacia	1	16.1	0	0	0	0	0	GOOD			7.3	8/17/2021	622.353	4.2	2.7	258260.643	13345420.24
1397	BLKL	Black Locust	Robinia pseudoacacia	1	9.4	0	0	0	0	0	GOOD			7.2	8/17/2021	583.489	2.8	1.8	258283.885	13345432.76
1398	BLKL	Black Locust	Robinia pseudoacacia	1	11.2	0	0	0	0	0	GOOD			2.9	8/17/2021	608.269	2.1	1.6	258276.443	13345417.36
1399	BLKL	Black Locust	Robinia pseudoacacia	1	13.5	0	0	0	0	0	GOOD			2.3	8/17/2021	583.393	2.4	1.5	258266.558	13345420.43
1400	BLKL	Black Locust	Robinia pseudoacacia	1	12.5	0	0	0	0	0	GOOD			6.3	8/17/2021	595.834	2.3	1.6	258282.559	13345416.09
1401	BLKL	Black Locust	Robinia pseudoacacia	1	17.2	0	0	0	0	0	GOOD			3.4	8/17/2021	605.518	2.4	1.7	258286.918	13345420.74
1402	AELM	American elm	Ulmus americana	1	14.4	0	0	0	0	0	GOOD			4.5	8/17/2021	581.784	2.3	1.5	258303.59	13345424.36
1403	BLKL	Black Locust	Robinia pseudoacacia	1	14.5	0	0	0	0	0	GOOD			5.5	8/17/2021	603.177	3.2	2.1	258321.108	13345427.04
1404	HACB	Hackberry	Celtis occidentalis	1	9.3	0	0	0	0	0	GOOD			7.4	8/17/2021	592.62	5.4	4.4	258335.189	13345410.17
1405	BLKL	Black Locust	Robinia pseudoacacia	1	14.7	0	0	0	0	0	GOOD			2.9	8/17/2021	596.322	1.9	1.3	258323.915	13345438.16
1406	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3	8/17/2021	605.737	4	2.7	258353.958	13345449.55
1407	COT	Eastern Cottonwood	Populus deltoides	1	14.3	0	0	0	0	0	FAIR		Structure	6.2	8/17/2021	616.51	3.2	2.1	258366.21	13345449.13
1408	COT	Eastern Cottonwood	Populus deltoides	1	22.7	0	0	0	0	0	GOOD			4.1	8/17/2021	559.884	5.5	3.4	258420.044	13345451.54
1409	COT	Eastern Cottonwood	Populus deltoides	1	27	0	0	0	0	0	GOOD			3.8	8/17/2021	591.446	2.8	1.9	258393.257	13345480.34
1410	SILM	Silver Maple	Acer saccharinum	1	17.1	0	0	0	0	0	GOOD			2.6	8/17/2021	579.841	2.5	1.7	258382.521	13345490.21
1411	COT	Eastern Cottonwood	Populus deltoides	1	21.2	0	0	0	0	0	GOOD			4.3	8/17/2021	577.672	4.6	3.7	258375.886	13345495.6
1412	COT	Eastern Cottonwood	Populus deltoides	1	28.6	0	0	0	0	0	GOOD			3.8	8/17/2021	602.97	5.2	4.8	258358.548	13345513.23
1413	BLKL	Black Locust	Robinia pseudoacacia	1	12	0	0	0	0	0	GOOD			5.8	8/17/2021	597.544	8.7	5.2	258353.758	13345515.98
1414	BLKL	Black Locust	Robinia pseudoacacia	1	9	0	0	0	0	0	GOOD			3.1	8/17/2021	588.202	2.4	1.8	258369.39	13345527.67
1415	COT	Eastern Cottonwood	Populus deltoides	1	21.3	0	0	0	0	0	GOOD			5.2	8/17/2021	591.994	5.5	4	258334.754	13345522.04
1416	AELM	American elm	Ulmus americana	1	9.5	0	0	0	0	0	GOOD			3.5	8/17/2021	587.878	2.8	2	258342.154	13345483.04
1417	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.5	8/17/2021	588.898	3.1	2.1	258329.292	13345481.02
1418	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			3.1	8/17/2021	580.188	1.8	1.3	258305.726	13345463.44
1419	BLKL	Black Locust	Robinia pseudoacacia	1	15.6	0	0	0	0	0	GOOD			10.9	8/17/2021	598.976	5.2	3.8	258295.265	13345470.43
1420	BLKL	Black Locust	Robinia pseudoacacia	1	14.7	0	0	0	0	0	GOOD			3.9	8/17/2021	569.218	2.3	1.6	258282.573	13345463.85
1421	BLKW	Black Walnut	Juglans nigra	1	10	0	0	0	0	0	GOOD			5.8	8/17/2021	575.247	3.2	2.2	258258.542	13345480.43
1422	BLKW	Black Walnut	Juglans nigra	1	10.8	0	0	0	0	0	GOOD			2.9	8/17/2021	578.745	1.8	1.3	258187.812	13345505.15
1423	BLKW	Black Walnut	Juglans nigra	1	8.2	0	0	0	0	0	GOOD			3.3	8/17/2021	593.356	7.3	5.9	258182.8	13345509.59
1424	BOXE	Box-Elder	Acer negundo	1	11.7	0	0	0	0	0	FAIR		Structure	38.8	8/17/2021	624.538	9.9	7.3	258147.13	13345528.06
1425	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			2.9	8/17/2021	592.918	2.5	2	258158.078	13345545.83
1426	BOXE	Box-Elder	Acer negundo	1	9.8	0	0	0	0	0	GOOD			3.1	8/17/2021	600.322	2.5	2.2	258153.762	13345548.74
1427	BOXE	Box-Elder	Acer negundo	1	13.9	10.4	8.4	0	0	0	GOOD			3.5	8/17/2021	598.412	2.6	2	258134.764	13345509.51
1428	COT	Eastern Cottonwood	Populus deltoides	1	14.2	0	0	0	0	0	GOOD			3	8/19/2021	577.903	4.6	3.4	258209.189	13345509.04
1429	WASH	White Ash	Fraxinus americana	1	12	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	141.3	8/19/2021	592.48	5.1	3.9	258214.642	13345519.11
1430	COT	Eastern Cottonwood	Populus deltoides	1	20.8	0	0	0	0	0	GOOD			4.9	8/19/2021	600.048	3	2.6	258205.126	13345534.12
1431	COT	Eastern Cottonwood	Populus deltoides	1	9.2	0	0	0	0	0	GOOD			141.3	8/19/2021	594.542	3.5	3.4	258261.275	13345540.35
1432	COT	Eastern Cottonwood	Populus deltoides	1	10	0	0	0	0	0	GOOD			141.3	8/19/2021	611.272	1.8	1.6	258260.425	13345537.28
1433	WASH	White Ash	Fraxinus americana	1	9.6	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	141.3	8/19/2021	597.319	1.6	1.4	258237.704	13345544.33
1434	MUL	White Mulberry	Morus alba	1	26.8	0	0	0	0	0	GOOD			4.4	8/19/2021	581.74	2	1.9	258172.324	13345573.7
1435	BLKC	Black Cherry	Prunus serotina	1	12.2	0	0	0	0	0	GOOD			68.1	8/19/2021	588.675	2	1.7	258158.077	13345608.97
1436	SWEETC	Sweet Cherry	Prunus avium	1	14.1	0	0	0	0	0	GOOD			3	8/19/2021	585.543	1.9	1.6	258157.723	13345619.29
1437	SWEETC	Sweet Cherry	Prunus avium	1	8.6	0	0	0	0	0	GOOD			2.4	8/19/2021	569.102	2.5	2.3	258208.771	13345630.39
1438	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	GOOD			2.8	8/19/2021	575.405	1.8	2.2	258203.012	13345630.36
1439	SWEETC	Sweet Cherry	Prunus avium	1	12.3	0	0	0	0	0	GOOD			4.2	8/19/2021	598.9	2.7	3.1	258202.866	13345622.66
1440	COT	Eastern Cottonwood	Populus deltoides	1	29.8	0	0	0	0	0	GOOD			3.2	8/19/2021	598.057	2	2.2	258241.107	13345616.73
1441	WASH	White Ash	Fraxinus americana	1	9.8	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	4	8/19/2021	590.12	2.9	2.7	258243.285	13345588.07
1442	SILM	Silver Maple	Acer saccharinum	1	12.6	9.7	8.6	8.3	0	0	FAIR		Structure	13.8	8/19/2021	603.156	3.8	3.4	258257.077	13345629.29
1443	COT	Eastern Cottonwood	Populus deltoides	1	25.5	0	0	0	0	0	POOR		Structure	4	8/19/2021	593.567	4.9	4.8	258254.512	13345662.82
1444	WASH	White Ash	Fraxinus americana	1	12.3	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	5.5	8/19/2021	582.706	1.8	1.7	258298.081	13345630.67
1445	BLKC	Black Cherry	Prunus serotina	1	17.1	0	0	0	0	0	FAIR		Structure	2.6	8/19/2021	596.328	1.9	1.8	258296.832	13345662.54
1446	BLKC	Black Cherry	Prunus serotina	1	9.2	0	0	0	0	0	GOOD			3.4	8/19/2021	587.706	2.6	2.7	258345.585	13345615.84
1447	CEDAR	Red Cedar	Juniperus virginiana	1	8	0	0	0	0	0	GOOD			2.7	8/19/2021	595.369	2	1.8	258347.324	13345619.92
1448	SIBE	Siberian elm	Ulmus pumila	1	12.4	0	0	0	0	0	FAIR		Structure	141.3	8/19/2021	561.89	1.8	1.5	258338.586	13345604.59
1449	WASH	White Ash	Fraxinus americana	1	11.7	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	141.3	8/19/2021	578.881	1.9	1.8	258343.12	13345593.25
1450	WASH	White Ash	Fraxinus americana	1	10.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	30.5	8/19/2021	574.274	2.7	2.9	258335.889	13345579.69
1451	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			8.4	8/19/2021	571.441	1.9	1.7	258359.596	13345594.15
1452	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			2.9	8/19/2021	567.99	2.4	2.1	258360.527	13345592.63
1453	NORWM	Norway Maple	Acer platanoides	1	9.8	8.5	0	0	0	0	GOOD			3.8	8/19/2021	588.188	1.8	1.5	258430.24	13345562.22
1454	BLKC	Black Cherry	Prunus serotina	1	10	0	0	0	0	0	GOOD			141.3	8/19/2021	607.927	1.9	1.7	258418.801	13345550.41
1455	SILM	Silver Maple	Acer saccharinum	1	11.2	9.8	0	0	0	0	GOOD			2.9	8/19/2021	596.588	2.9	2.6	258444.503	13345560.55
1456	BLKC	Black Cherry	Prunus serotina	1	11.1	0	0	0	0	0	GOOD			3.9	8/19/2021	551.226	3.5	3.3	258438.736	13345573.69
1457	SWEETC	Sweet Cherry	Prunus avium	1	9.6	8.4	0	0	0	0	GOOD			42.2	8/19/2021	597.698	2.6	2.1	258456.884	13345535.32
1458	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	POOR		Structure	10	8/19/2021	591.269	2	1.6	258468.228	13345522.41

1459	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			9.7	8/19/2021	571.368	7	5.7	258483.57	13345487.11
1460	BLKC	Black Cherry	Prunus serotina	1	9.1	0	0	0	0	0	GOOD			4.1	8/19/2021	597.78	4.1	2.9	258483.047	13345472.28
1461	AELM	American elm	Ulmus americana	1	20.1	0	0	0	0	0	GOOD			5.2	8/19/2021	585.045	4.7	3.1	258509.985	13345421.61
1462	COT	Eastern Cottonwood	Populus deltoides	1	20.1	0	0	0	0	0	GOOD			4.8	8/19/2021	595.534	3.7	2.5	258532.967	13345402.74
1463	COT	Eastern Cottonwood	Populus deltoides	1	18.2	0	0	0	0	0	GOOD			3.9	8/19/2021	578.244	2.2	1.6	258531.876	13345432.52
1464	COT	Eastern Cottonwood	Populus deltoides	1	17.7	0	0	0	0	0	GOOD			2.4	8/19/2021	583.544	2.1	1.4	258537.564	13345441.06
1465	COT	Eastern Cottonwood	Populus deltoides	1	13.7	0	0	0	0	0	GOOD			2.8	8/19/2021	601.003	2.7	2.1	258540.894	13345437.69
1466	COT	Eastern Cottonwood	Populus deltoides	1	23.1	0	0	0	0	0	GOOD			2.9	8/19/2021	569.873	6.1	3.6	258527.899	13345449.79
1467	SILM	Silver Maple	Acer saccharinum	1	13.7	0	0	0	0	0	GOOD			5	8/19/2021	578.965	3.8	2.9	258524.789	13345454.42
1468	COT	Eastern Cottonwood	Populus deltoides	1	24.1	0	0	0	0	0	GOOD			6.4	8/19/2021	574.128	2.7	1.7	258535.187	13345471.4
1469	SILM	Silver Maple	Acer saccharinum	1	9.2	0	0	0	0	0	GOOD			4.8	8/19/2021	580.424	6.3	4.9	258583.029	13345442.23
1470	AELM	American elm	Ulmus americana	1	14.1	0	0	0	0	0	GOOD			6.7	8/19/2021	604.846	3.4	2.1	258562.881	13345395.23
1471	COT	Eastern Cottonwood	Populus deltoides	1	22.5	0	0	0	0	0	GOOD			7.4	8/19/2021	626.6	6.6	4	258510.424	13345421.62
1472	GASH	Green Ash	Fraxinus pennsylvanica	1	8	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.4	8/19/2021	586.057	2.6	1.7	258564.472	13345374.14
1473	BLKC	Black Cherry	Prunus serotina	1	10.1	0	0	0	0	0	GOOD			4.2	8/19/2021	612.397	6.5	3.9	258546.782	13345377.9
1474	SILM	Silver Maple	Acer saccharinum	1	11.8	11.7	10	0	0	0	GOOD			2.3	8/19/2021	584.696	1.8	1.2	258541.174	13345368.88
1475	SILM	Silver Maple	Acer saccharinum	1	18	0	0	0	0	0	GOOD			5.8	8/19/2021	610.665	9.7	7.3	258508.077	13345377.15
1476	COT	Eastern Cottonwood	Populus deltoides	1	13.2	0	0	0	0	0	GOOD			3.5	8/19/2021	590.012	2.2	1.8	258488.715	13345351.72
1477	AELM	American elm	Ulmus americana	1	10.7	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	142	8/19/2021	587.688	3	1.8	258490.93	13345388.07
1478	COT	Eastern Cottonwood	Populus deltoides	1	14.6	0	0	0	0	0	GOOD			4.1	8/19/2021	589.524	10.9	9	258465.441	13345383.58
1479	COT	Eastern Cottonwood	Populus deltoides	1	26.6	0	0	0	0	0	GOOD			7.9	8/19/2021	621.175	5.5	5.5	258457.275	13345374.04
1480	AELM	American elm	Ulmus americana	1	12.3	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	4.7	8/19/2021	589.547	2.9	2	258456.856	13345379.22
1481	AELM	American elm	Ulmus americana	1	18.5	0	0	0	0	0	GOOD			3.6	8/19/2021	584.726	3.1	2	258450.136	13345371.75
1482	COT	Eastern Cottonwood	Populus deltoides	1	24.7	0	0	0	0	0	GOOD			2.8	8/19/2021	591.834	8.4	5.4	258468.998	13345381.07
1483	COT	Eastern Cottonwood	Populus deltoides	1	12.7	0	0	0	0	0	GOOD			2.8	8/19/2021	617.86	5.3	3.9	258460.304	13345349.56
1484	COT	Eastern Cottonwood	Populus deltoides	1	23.4	0	0	0	0	0	GOOD			141.3	8/19/2021	586.78	4.1	2.5	258467.428	13345356.2
1485	COT	Eastern Cottonwood	Populus deltoides	1	14.7	0	0	0	0	0	GOOD			2.8	8/19/2021	572.115	2.2	1.5	258467.499	13345339.78
1486	COT	Eastern Cottonwood	Populus deltoides	1	20.8	0	0	0	0	0	GOOD			4.5	8/19/2021	597.614	2.6	1.6	258465.437	13345332.4
1487	AELM	American elm	Ulmus americana	1	9.2	0	0	0	0	0	GOOD			3	8/19/2021	582.285	6	4.3	258481.468	13345330.35
1488	COT	Eastern Cottonwood	Populus deltoides	1	22.8	0	0	0	0	0	GOOD			3.3	8/19/2021	571.9	3.1	2.7	258485.972	13345336.92
1489	AELM	American elm	Ulmus americana	1	9	0	0	0	0	0	GOOD			3	8/19/2021	598.585	7.9	5.3	258474.894	13345301.26
1490	SHAGH	Shagbark Hickory	Carya ovata	1	9.8	0	0	0	0	0	GOOD			141.3	8/19/2021	582.584	1.8	1.1	258503.271	13345306.59
1491	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			3	8/19/2021	580.405	1.7	1.6	258514.586	13345301.08
1492	SILM	Silver Maple	Acer saccharinum	1	9.7	0	0	0	0	0	GOOD			4.2	8/19/2021	589.401	3.1	2	258526.671	13345298.2
1493	BLKC	Black Cherry	Prunus serotina	1	9.2	0	0	0	0	0	GOOD			2.7	8/19/2021	575.859	2	1.2	258538.942	13345313.87
1494	COT	Eastern Cottonwood	Populus deltoides	1	14.5	0	0	0	0	0	GOOD			5.8	8/19/2021	605.362	4.5	2.5	258495.291	13345287.25
1495	COT	Eastern Cottonwood	Populus deltoides	1	14	0	0	0	0	0	GOOD			2.9	8/19/2021	569.121	2.6	1.7	258462.496	13345289.91
1496	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			3.9	8/19/2021	590.159	1.8	1.3	258615.482	13345407.23
1497	WASH	White Ash	Fraxinus americana	1	9.9	0	0	0	0	0	POOR	X	Peeling Bark, Cavity, STRUCTURE, Emerald Ash Borer	3	8/19/2021	592.166	4.7	3.1	258609.328	13345396.45
1498	SILM	Silver Maple	Acer saccharinum	1	10.7	0	0	0	0	0	GOOD			3	8/19/2021	577.486	2.1	1.4	258646.458	13345324.02
1499	COT	Eastern Cottonwood	Populus deltoides	1	16.8	0	0	0	0	0	GOOD			2.9	8/19/2021	587.749	2.6	1.8	258653.555	13345321.19
1500	COT	Eastern Cottonwood	Populus deltoides	1	25.4	0	0	0	0	0	GOOD			2.7	8/19/2021	585.43	3.9	2.9	258654.032	13345321.15
1501	AELM	American elm	Ulmus americana	1	9	0	0	0	0	0	GOOD			2.8	8/19/2021	584.93	1.8	1.4	258665.728	13345307.02
1502	POAK	Pin Oak	Quercus palustris	1	8.3	0	0	0	0	0	GOOD			2.5	8/19/2021	590.086	1.8	1.3	258683.546	13345323.01
1503	COT	Eastern Cottonwood	Populus deltoides	1	19.5	0	0	0	0	0	GOOD			2.9	8/19/2021	591.279	1.9	1.7	258657.77	13345230.98
1504	AELM	American elm	Ulmus americana	1	12.3	0	0	0	0	0	GOOD			3	8/19/2021	588.784	1.8	1.4	258549.547	13345266.01
1505	BLKC	Black Cherry	Prunus serotina	1	9.7	0	0	0	0	0	GOOD			3.2	8/19/2021	593.537	2.7	3	258530.771	13345235.72
1506	BLKC	Black Cherry	Prunus serotina	1	9.1	0	0	0	0	0	GOOD			3.3	8/19/2021	596.538	3.5	3.3	258528.117	13345239.69
1507	SILM	Silver Maple	Acer saccharinum	1	14.5	11.3	10.5	0	0	0	GOOD			6.6	8/19/2021	588.774	2.9	2.2	258538.882	13345177.12
1508	WASH	White Ash	Fraxinus americana	1	9.3	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity, STRUCTURE, Emerald Ash Borer	3.2	8/19/2021	588.912	3.6	3	258519.624	13345198.73
1509	NORWM	Norway Maple	Acer platanoides	1	20.2	0	0	0	0	0	GOOD			2.1	8/19/2021	592.61	1.5	2	258511.799	13345178.62
1510	SHAGH	Shagbark Hickory	Carya ovata	1	8.2	0	0	0	0	0	GOOD			3.2	8/19/2021	577.942	1.7	1.4	258506.91	13345150.11
1511	BLKC	Black Cherry	Prunus serotina	1	8.6	0	0	0	0	0	GOOD			2.9	8/19/2021	589.15	2.1	1.7	258512.694	13345145.34
1512	COT	Eastern Cottonwood	Populus deltoides	1	24.8	0	0	0	0	0	GOOD			3.9	8/19/2021	608.364	4	3.4	258441.688	13344850.75
1513	COT	Eastern Cottonwood	Populus deltoides	1	16.8	0	0	0	0	0	GOOD			3.1	8/19/2021	588.394	3.1	2.5	258443.67	13344842
1514	AELM	American elm	Ulmus americana	1	12.2	0	0	0	0	0	GOOD			4.7	8/19/2021	589.087	1.9	1.4	258497.834	13344872.36
1515	COT	Eastern Cottonwood	Populus deltoides	1	23.2	0	0	0	0	0	GOOD			3	8/19/2021	584.944	2.3	2.2	258551.858	13344822.07
1516	COT	Eastern Cottonwood	Populus deltoides	1	12.6	0	0	0	0	0	GOOD			2.9	8/19/2021	569.028	2.3	1.5	258562.124	13344858.94
1517	COT	Eastern Cottonwood	Populus deltoides	1	12.5	0	0	0	0	0	GOOD			5.1	8/19/2021	574.444	3.3	2.2	258562.149	13344840.2
1518	COT	Eastern Cottonwood	Populus deltoides	1	12.8	0	0	0	0	0	GOOD			5.1	8/19/2021	587.784	2	1.6	258567.32	13344830.73
1519	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			3.5	8/19/2021	588.997	3.1	2.7	258577.795	13344852.54
1520	COT	Eastern Cottonwood	Populus deltoides	1	10.2	0	0	0	0	0	GOOD			2.9	8/19/2021	580.886	2.2	1.5	258576.888	13344861.09
1521	COT	Eastern Cottonwood	Populus deltoides	1	17.8	0	0	0	0	0	GOOD			3.3	8/19/2021	587.989	3.1	2	258586.187	13344861.52
1522	COT	Eastern Cottonwood	Populus deltoides	1	17.8	0	0	0	0	0	GOOD			6.3	8/19/2021	574.686	6.4	3.8	258579.761	13344867.22
1523	COT	Eastern Cottonwood	Populus deltoides	1	12.6	0	0	0	0	0	GOOD			2.7	8/19/2021	592.911	2.6	2	258578.482	13344876.58
1524	COT	Eastern Cottonwood	Populus deltoides	1	11	0	0	0	0	0	GOOD			2.9	8/19/2021	586.634	1.8	1.7	258580.958	13344867.44
1525	COT	Eastern Cottonwood	Populus deltoides	1	13.8	0	0	0	0	0	GOOD			4.4	8/19/2021	594.924	2.8	2	258574.621	13344876.88
1526	COT	Eastern Cottonwood	Populus deltoides	1	18.3	17	0	0	0	0	GOOD			2.8	8/19/2021	591.867	6.1	4.6	258608.484	13344876.25
1527	SILM	Silver Maple	Acer saccharinum	1	16.4	10.6	0	0	0	0	GOOD			5.2	8/19/2021	613.247	4.2	3.5	258597.058	13344867.38
1528	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			2.9	8/19/2021	585.686	2	2.1	258598.987	13344827.5
1529	COT	Eastern Cottonwood	Populus deltoides	1	12.7	0	0	0	0	0	GOOD			5.5	8/19/2021	596.393	3.4	2.2	258598.717	13344829.81
1530	COT	Eastern Cottonwood	Populus deltoides	1	24.2	0	0	0	0	0	GOOD			2.7	8/19/2021	587.462	8.8	6.1	258600.447	13344822.92
1531	COT	Eastern Cottonwood	Populus deltoides	1	14.9	0	0	0	0	0	GOOD			2.7	8/19/2021	584.651	1.9	1.4	258612.63	13344808.16
1532	COT	Eastern Cottonwood	Populus deltoides	1	15.7	0	0	0	0	0	GOOD			2.7	8/19/2021	587.291	2	1.3	258623.19	13344840.37
1533	COT	Eastern Cottonwood	Populus deltoides	1	11.7	0	0	0	0	0	GOOD			2.4	8/19/2021	593.082	2.3	1.7	258648.143	13344838.36
1534	COT	Eastern Cottonwood	Populus deltoides	1	14.5	0	0	0	0	0	GOOD			8.5	8/19/2021	569.41	4.3	2.8	258645.231	13344841.6
1535	COT	Eastern Cottonwood	Populus deltoides	1	18.4	0	0	0	0	0	GOOD			2.8	8/19/2021	579.565	4.1	2.4	258626.09	13344845.91
1536	COT	Eastern Cottonwood	Populus deltoides	1	13.6	0	0	0	0	0	GOOD			2.9	8/19/2021	589.727	1.9	1.3	258621.502	13344878.92
1537	COT	Eastern Cottonwood	Populus deltoides	1	15.2	0	0	0	0	0	GOOD			2.8	8/19/2021	586.097	5.2	4.5	258640.554	13344861.01
1538	COT	Eastern Cottonwood	Populus deltoides	1	11.8	0	0	0	0	0	GOOD			4.1	8/19/2021	584.443	1.9	1.3	258620.702	13344892.49
1539	COT	Eastern Cottonwood	Populus deltoides	1	7.8	0	0	0	0	0	GOOD			2.8	8/19/2021	586.796	2.4	1.6	258681.474	13344892.19
1540	COT	Eastern Cottonwood	Populus deltoides	1	17.2	0	0	0	0	0	GOOD			3	8/19/2021	582.391	1.6	1.6	258689.956	13344895.15
1541	COT	Eastern Cottonwood	Populus deltoides	1	13.1	0	0	0	0	0	GOOD			3	8/19/2021	583.134	3.2	2.8	258691.659	13344893.40
1542	COT	Eastern Cottonwood	Populus deltoides	1	11.5	11	0	0	0	0	GOOD			5.7	8/19/2021	597.432	2.1	1.6	258702.087	13344902.93
1543	SILM	Silver Maple	Acer saccharinum	1	12.2	9.9	0	0	0	0	GOOD			3.4	8/19/2021	596.472	2.3	1.4	258699.012	13344909.93
1544	SILM	Silver Maple	Acer saccharinum	1	25.5	17.7	17.2	16.4	14.2	9.8	GOOD			3.5	8/19/2021	593.038	7.8	4.9	258692.659	13344907.05
1545	AELM	American elm	Ulmus americana	1	9.8	0	0	0	0	0	GOOD			8.7	8/19/2021	573.82	3.9	2.8	258700.051	13344946.18
1546	COT	Eastern Cottonwood	Populus deltoides	1	14.5	0	0	0	0	0	GOOD			3.3	8/19/2021	595.255	1.8	1.3	258707.289	13344966.6
1547	GASH	Green Ash	Fraxinus pennsylvanica	1	9.4	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.9	8/19/2021	574.929	5.5	4.3	258737.411	13344951.69
1548	COT	Eastern Cottonwood	Populus deltoides	1	8.8	0	0	0	0	0	GOOD			5.8	8/19/2021	592.441	2.9	1.8	258729.042	13345001.45
1549	SILM	Silver Maple	Acer saccharinum	1	9.8	0	0	0	0	0	GOOD			3.6	8/19/2021	597.344	5.5	3.4	258711.114	13344993.2
1550	COT	Eastern Cottonwood	Populus deltoides	1	19.5	0	0	0	0	0	GOOD			2.9	8/19/2021	582.097	1.9	1.3	258713.116	13345003.25
1551	COT	Eastern Cottonwood	Populus deltoides	1	9.2	0	0	0	0	0	GOOD			2.6	8/19/2021	579.4	1.7	1.3	258704.984	13345025.32
1552	COT	Eastern Cottonwood	Populus deltoides	1	10.1	9.4	0	0	0	0	GOOD			3.8	8/19/2021	581.772	2.1	1.3	258701.552	13345027.98
1553	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			2.6	8/19/2021	586.413	2	1.3	258706.458	13345040.32
1554	SILM	Silver Maple	Acer saccharinum	1	12.5	11.9	9.7	0	0	0	GOOD			2.7	8/19/2021	598.258	4	2.6	258737.988	13345045.5
1555	AELM	American elm	Ulmus americana	1	13.4	0	0	0	0	0	GOOD			2.7	8/19/2021	589.024	4.6	3.3	258729.312	13345035.1
1556	SILM	Silver Maple	Acer saccharinum	1	10.4	9	0	0	0	0	GOOD			3.7	8/19/2021	574.39	2.5	1.7	258738.932	13345030.51
1557	AELM	American elm	Ulmus americana	1	8.5	0	0	0	0	0	GOOD			3.5	8/19/2021	581.183	2	1.3	258734.366	13345021.32
1558	SILM	Silver Maple	Acer saccharinum	1	25.5	14.4	0	0	0	0	GOOD			3.9	8/19/2021	614.182	3.7	2.3	258756.862	13345041.56
1559	SILM	Silver Maple	Acer saccharinum	1	22.3	20.7	0	0	0	0	GOOD			2.3	8/19/2021	585.943	3.2	2.4	258761.027	13345012.84
1560	COT	Eastern Cottonwood	Populus deltoides	1	9.3	0	0	0	0	0	GOOD			3	8/19/2021	570.378	2.3	1.4	258755.347	13344995.59
1561	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.8	8/19/2021	584.685	1.9	1.1	258792.684	13344987.6
1562	BLKC	Black Cherry	Prunus serotina	1	9.3	0	0	0	0	0	GOOD			2.9	8/19/2021	595.61	3.4	2.7	258793.706	13344989.85
1563	WASH	White Ash	Fraxinus americana	1	9	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.8	8/19/2021	590.822	2.7	1.5	258797.526	13344986.79
1564	WASH	White Ash	Fraxinus americana	1	9.8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	7.3	8/19/2021	596.064	5.8	3.2	258777.957	13345043.5
1565	WASH	White Ash	Fraxinus americana	1	8.8	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.7	8/19/2021	600.665	2.3	1.2	258812.454	13345054.84
1566	WASH	White Ash	Fraxinus americana	1	9.1	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.9	8/19/2021	596.389	2.4	1.4	258823.54	13345076.68
1567	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			2.6	8/19/2021	602.41	2.1	1.3	258836.142	13345114.35
1568	BLKC	Black Cherry	Prunus serotina	1	11.1	0	0	0	0	0	GOOD			1.9	8/19/2021	605.298	1.8	1.3	258843.501	13345117.55
1569	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3.8	8/19/2021	599.947	2.7	1.5	258846.335	13345099.35
1570	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			4	8/19/2021	595.859	2.2	1.3	258870.462	13345117.96
1571	SILM	Silver Maple	Acer saccharinum	1	11.9	0	0	0	0	0	GOOD			2.6	8/19/2021	596.883	5.6	3.2	258879.235	13345132.31
1572	WASH	White Ash	Fraxinus americana	1	10.6	0	0	0	0	0	GOOD		STRUCTURE, Emerald Ash Borer	3	8/19/2021	584.508	1.8	1.1	258832.109	13345167.21
1573	WASH	White Ash	Fraxinus americana	1	8.8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	8/19/2021	584.431	1.9	1.1	258789.288	13345141.35
1574	COT	Eastern Cottonwood	Populus deltoides	1	30.1	0	0	0	0	0	GOOD			3.7	8/19/2021	588.133	2.7	1.6	258734.259	13345151.92
1575	COT	Eastern Cottonwood	Populus deltoides	1	10.1	0	0	0	0	0	GOOD			2.9	8/19/2021	583.799	3.6	2.2	258740.569	13345190.74
1576	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			2.9	8/19/2021	586.274	1.8	1.2	258727.954	13345190.9
1577	COT	Eastern Cottonwood	Populus deltoides	1	10.1	0	0	0	0	0	GOOD			3.8	8/19/2021	593.031	3.1	2	258714.138	13345198.88
1578	SILM	Silver Maple	Acer saccharinum	1	18.1	12.6	9.7	0	0	0	GOOD			5.5	8/19/2021	585.881	3.5	1.8	258709.457	13345225.47
1579	CEDAR	Red Cedar	Juniperus virginiana	1	10	0	0	0	0	0	GOOD			3	8/19/2021	585.021	2.5	2	258779.543	13345250.34
1580	SILM	Silver Maple	Acer saccharinum	1	15.1	14.4	9.6	9.3	0	0	GOOD			3.4	8/19/2021	587.476	4.2	2.6	258775.819	13345200.27
1581	COT	Eastern Cottonwood	Populus deltoides	1	11.9	0	0	0	0	0	GOOD			17.2	8/19/2021	585.421	4.1	2.6	258747.052	13345298.95
1582	COT	Eastern Cottonwood	Populus deltoides	1	10.0	0	0	0	0	0	GOOD			4.9	8/19/2021	580.024	3.6	2.4	258741.8	13345293.24
1583	COT	Eastern Cottonwood	Populus deltoides	1	10.6	0	0	0	0	0	GOOD			3.4	8/19/2021	595.259	4.6	3.2	258733.095	13345292.19
1584	SILM	Silver Maple	Acer saccharinum	1	14.1	0	0	0	0	0	GOOD			3.4	8/19/2021	588.36	3.5	2.7	258730.538	13345331.14
1585	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			7.5	8/19/2021	596.682	7.2	5.5	258732.252	13345342.39
1586	SILM	Silver Maple	Acer saccharinum	1	24.3	0	0	0	0	0	GOOD			4.4	8/19/2021	591.202	2.5	1.9	258707.774	13345336.63
1587	SILM	Silver Maple	Acer saccharinum	1	9.2	0	0	0	0	0	GOOD			2.6	8/19/2021	581.26	2.6	1.8	258698.033	13345329.4
1588	SILM	Silver Maple	Acer saccharinum	1	15.9	0	0	0	0	0	GOOD			141.3	8/19/2021	581.997	2.5	1.9	258728.642	13345376.48
1589	SILM	Silver Maple	Acer saccharinum	1	12.7	0	0	0	0	0	GOOD			3.3	8/19/2021	573.382	2.8	2.1	258721.21	13345367.83
1590	SILM	Silver Maple	Acer saccharinum	1	11.5	0	0	0	0	0	GOOD			4.1	8/19/2021	590.141	9.6	7.3	258720.465	13345382.5
1591	SILM	Silver Maple	Acer saccharinum	1	25.8	0	0	0	0	0	GOOD			5.6	8/19/2021	575.077	1.9	1.6	258705.272	13345438.55
1592	COT	Eastern Cottonwood	Populus deltoides	1	15.9	0	0	0	0	0	GOOD			141.3	8/25/2021	599.306	2.5	1.6	258549.821	13345501.66
1593	COT	Eastern Cottonwood	Populus deltoides	1	12.9	0	0	0	0	0	GOOD			3.2	8/25/2021	583.073	4.7	3.1	258530.372	13345502.02
1594	SILM	Silver Maple	Acer saccharinum	1	11.9	10.7	0	0	0	0	GOOD			3.8	8/25/2021	570.014	5.8	3.6	258528.725	13345510.06
1595	COT	Eastern Cottonwood	Populus deltoides	1	13.7	0	0	0	0	0	GOOD			3	8/25/2021	577.203	3	2	258537.789	13345520.27
1596	COT	Eastern Cottonwood	Populus deltoides	1	18.7	17.8	11	0	0	0	GOOD			3.2	8/25/2021	574.933	2.2	2.2	258528.697	13345516.45
1597	BLKC	Black Cherry	Prunus serotina	1	10.6	0	0	0	0	0	GOOD			2.5	8/25/2021	592.541	2.4	1.5	258485.779	13345557.24
1598	BLKC	Black Cherry	Prunus serotina	1	10.1	0	0	0	0	0	GOOD			3.5	8/25/2021	587.301	5.7	3.4	258497.432	13345590
1599	SILM	Silver Maple	Acer saccharinum	1	13.7	0	0	0	0	0	GOOD			4	8/25/2021	596.508	5.2	3.1	258484.331	13345585.83
1600	BLKC	Black Cherry	Prunus serotina	1	11.4	0	0	0	0	0	GOOD			3.8	8/25/2021	593.141	6.1	4.4	258510.739	13345646.89
1601	SWEETC	Sweet Cherry	Prunus avium	1	8.2	0	0	0	0	0	GOOD			3.0	8/25/2021	593.208	4.3	3	258520.769	13345627.76
1602	COT	Eastern Cottonwood	Populus deltoides	1	25.4	0	0	0	0	0	GOOD			3.1	8/25/2021	582.277	5.7	5.2	258532.4	13345626.62
1603	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	GOOD			2.6	8/25/2021	584.801	2.2	1.7	258525.666	13345623.74
1604	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	GOOD			3.4	8/25/2021	596.288	2.9	1.8	258520.709	13345623.98
1605	BLKL	Black Locust	Robinia pseudoacacia	1	12.1	0	0	0	0	0	GOOD			3	8/25/2021	588.483	2.3	1.6	258550.206	13345609.41
1606	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	8/25/2021	588.335	2.1	1.6	258452.461	13345616.57
1607	BLKC	Black Cherry	Prunus serotina	1	11.7	0	0	0	0	0	GOOD			4.5	8/25/2021	585.477	1.9	1.5	258432.482	13345614.26
1608	WASH	White Ash	Fraxinus americana	1	8.2	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.9	8/25/2021	584.042	2	1.6	258401.374	13345620.93
1609	SWEETC	Sweet Cherry	Prunus avium	1	11.1	10.3	0	0	0	0	POOR			3	8/25/2021	586.07	2	1.7	258387.21	13345662.87
1610	WASH	White Ash	Fraxinus americana	1	8.7	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.2	8/25/2021	607.486	2.4	2.2	258424.592	13345707.11
1611	WASH	White Ash	Fraxinus americana	1	9	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	8.2	8/25/2021	578.688	2.3	1.9	258424.184	13345710.07
1612	COT	Eastern Cottonwood	Populus deltoides	1	9.5	0	0	0	0	0	GOOD			2.8	8/25/2021	594.081	2	2	258411.452	13345743.64
1613	WASH	White Ash	Fraxinus americana	1	11.9	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	10.1	8/25/2021	579.969	2	2.2	258405.674	13345767.66
1614	MUL	White Mulberry	Morus alba	1	9.4	0	0	0	0	0	GOOD			3	8/25/2021	583.397	2.5	2.6	258389.686	13345766.87
1615	SWEETC	Sweet Cherry	Prunus avium	1	10.4	0	0	0	0	0	GOOD			3	8/25/2021	587.385	1.9	1.9	258339.878	13345748.18
1616	MUL	White Mulberry	Morus alba	1	12.3	0	0	0	0	0	GOOD			3	8/25/2021	584.043	1.9	1.6	258331.483	13345707.04
1617	BLKC	Black Cherry	Prunus serotina	1	18	0	0	0	0	0	GOOD			2.9	8/25/2021	586.699	2	1.5	258253.602	13345742.58
1618	MUL	White Mulberry	Morus alba	1	9.2	0	0	0	0	0	GOOD			2.9	8/25/2021	581.059	2.1	2	258242.893	13345731.55
1619	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.8	8/25/2021	590.288	1.8	1.9	258251.191	13345687.34
1620	SILM	Silver Maple	Acer saccharinum	1	15.6	0	0	0	0	0	GOOD			141.3	8/25/2021	620.046	6.6	6.4	258225.984	13345726.14

TREE REMOVAL LEGEND

~~00~~ INDICATES EXISTING TREE TO BE REMOVED

00 INDICATES EXISTING TREE TO REMAIN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Tree List

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
M. Carnaghi

DESIGNED BY:

APPROVED BY:
K. Navaroli

DATE:
September 24, 2021

SCALE: N.T.S.

NFE JOB NO.
M278-01

SHEET NO.
SP 1.26

~~1621~~	SILM	Silver Maple	Acer saccharinum	1	21.2	0	0	0	0	0	GOOD			10.2	8/25/2021	575.724	4.3	3.7	258186.591	13345759.4
1622	COT	Eastern Cottonwood	Populus deltoides	1	19.4	0	0	0	0	0	GOOD			3.3	8/25/2021	585.303	1.9	1.4	258145.748	13345653.44
1623	COT	Eastern Cottonwood	Populus deltoides	1	21.6	0	0	0	0	0	GOOD			3	8/25/2021	583.711	1.7	1.2	258145.495	13345696.38
1624	COT	Eastern Cottonwood	Populus deltoides	1	16.5	0	0	0	0	0	GOOD			5.2	8/25/2021	589.641	2.9	2.1	258149.522	13345735.17
1625	COT	Eastern Cottonwood	Populus deltoides	1	13.1	0	0	0	0	0	GOOD			3.4	8/25/2021	594.984	2.7	2.1	258142.441	13345742.7
1626	COT	Eastern Cottonwood	Populus deltoides	1	15.1	0	0	0	0	0	GOOD			2.7	8/25/2021	596.764	4.5	3.3	258147.394	13345740.44
1627	COT	Eastern Cottonwood	Populus deltoides	1	20.6	0	0	0	0	0	GOOD			5.3	8/25/2021	589.999	2.2	1.5	258167.264	13345769.19
1628	COT	Eastern Cottonwood	Populus deltoides	1	16.3	0	0	0	0	0	GOOD			4.1	8/25/2021	583.18	2.7	1.8	258156.448	13345772.18
1629	COT	Eastern Cottonwood	Populus deltoides	1	18.2	0	0	0	0	0	GOOD			2.8	8/25/2021	575.478	1.8	1.3	258155.761	13345775.13
1630	COT	Eastern Cottonwood	Populus deltoides	1	8.8	0	0	0	0	0	GOOD			141.3	8/25/2021	562.583	3	2.1	258157.385	13345782.31
1631	COT	Eastern Cottonwood	Populus deltoides	1	17.7	0	0	0	0	0	GOOD			3.6	8/25/2021	597.914	2.2	1.5	258146.075	13345780.52
1632	COT	Eastern Cottonwood	Populus deltoides	1	15.8	0	0	0	0	0	GOOD			2.9	8/25/2021	588.003	1.9	1.3	258151.17	13345788.87
1633	BLKC	Black Cherry	Prunus serotina	1	8.5	0	0	0	0	0	GOOD			2.9	8/25/2021	579.534	1.8	1.2	258188.466	13345785.91
~~1634~~	BLKC	Black Cherry	Prunus serotina	1	16.8	0	0	0	0	0	GOOD			3	8/25/2021	594.856	2.2	1.7	258206.574	13345792.27
1635	COT	Eastern Cottonwood	Populus deltoides	1	14	0	0	0	0	0	GOOD			3	8/25/2021	588.688	1.9	1.2	258154.784	13345806.04
1636	COT	Eastern Cottonwood	Populus deltoides	1	25.2	0	0	0	0	0	GOOD			2.9	8/25/2021	581.035	2	1.2	258163.913	13345830.37
~~1637~~	CEDAR	Red-Cedar	Juniperus virginiana	1	11.5	0	0	0	0	0	GOOD			2.7	8/25/2021	579.19	2.1	1.7	258223.632	13345822.15
~~1638~~	BLKC	Black Cherry	Prunus serotina	1	12.8	0	0	0	0	0	GOOD			2.8	8/25/2021	574.932	2.5	1.6	258230.363	13345828.38
~~1639~~	MUL	White Mulberry	Morus alba	1	9.7	0	0	0	0	0	GOOD			141.3	8/25/2021	589.705	3.4	2.1	258273.679	13345856.4
~~1640~~	NORWM	Norway Maple	Acer platanoides	1	12.7	0	0	0	0	0	GOOD			6.9	8/25/2021	582.927	2.1	1.5	258284.228	13345878.42
~~1641~~	NORWM	Norway Maple	Acer platanoides	1	14.4	0	0	0	0	0	GOOD			2.8	8/25/2021	599.791	2.4	1.5	258307.683	13345879.79
~~1642~~	WASH	White Ash	Fraxinus americana	1	11	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.3	8/25/2021	599.798	3.9	3.1	258309.19	13345868.48
~~1643~~	SLIE	Slippery elm	Ulmus rubra	1	33.7	0	0	0	0	0	GOOD			6.5	8/25/2021	602.134	3.8	2.5	258335.852	13345839.38
~~1644~~	BLKC	Black Cherry	Prunus serotina	1	14.4	0	0	0	0	0	GOOD			3.2	8/25/2021	588.029	3.1	2.4	258398.18	13345824.56
~~1645~~	WASH	White Ash	Fraxinus americana	1	8.7	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.6	8/25/2021	591.059	2	1.4	258425.638	13345828.99
~~1646~~	WASH	White Ash	Fraxinus americana	1	8.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	5.2	8/25/2021	581.382	3	2	258415.451	13345892.2
~~1647~~	BLKC	Black Cherry	Prunus serotina	1	19.2	0	0	0	0	0	GOOD			141.3	8/25/2021	593.374	2.7	1.7	258459.824	13345866.64
~~1648~~	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			5.2	8/25/2021	592.517	2.4	1.3	258472.124	13345892.08
~~1649~~	WASH	White Ash	Fraxinus americana	1	10.2	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	12.6	8/25/2021	603.386	4.6	2.8	258493.935	13345875
~~1650~~	MUL	White Mulberry	Morus alba	1	8.3	0	0	0	0	0	GOOD			4.9	8/25/2021	585.724	3.1	1.8	258511.344	13345837.93
~~1651~~	BLKW	Black Walnut	Juglans nigra	1	9.5	0	0	0	0	0	GOOD			6.1	8/25/2021	597.927	2.7	1.7	258519.662	13345820.3
~~1652~~	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			4.6	8/25/2021	595.002	2.4	1.4	258499.898	13345807.74
~~1653~~	BLKC	Black Cherry	Prunus serotina	1	10.2	0	0	0	0	0	GOOD			4	8/25/2021	591.338	2.9	2.5	258516.122	13345789.31
~~1654~~	BLKW	Black Walnut	Juglans nigra	1	8.2	0	0	0	0	0	GOOD			2.4	8/25/2021	587.233	2.2	1.4	258526.761	13345760
~~1655~~	MUL	White Mulberry	Morus alba	1	8.2	0	0	0	0	0	GOOD			4.7	8/25/2021	587.02	1.9	1.2	258543.757	13345753.84
~~1656~~	WASH	White Ash	Fraxinus americana	1	10.3	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.7	8/25/2021	579.44	2.7	1.8	258551.608	13345743.29
~~1657~~	SWEETC	Sweet Cherry	Prunus avium	1	14.4	0	0	0	0	0	GOOD			4.9	8/25/2021	632.787	13.5	8.5	258543.687	13345702.96
~~1658~~	BLKW	Black Walnut	Juglans nigra	1	10.6	0	0	0	0	0	GOOD			141.3	8/25/2021	607.96	2.3	1.6	258559.07	13345706.89
~~1659~~	BLKC	Black Cherry	Prunus serotina	1	10.3	0	0	0	0	0	GOOD			3.5	8/25/2021	591.333	2.7	1.8	258515.452	13345698.18
~~1660~~	MUL	White Mulberry	Morus alba	1	10.7	0	0	0	0	0	GOOD			4.9	8/25/2021	588.635	3.1	2.2	258500.6	13345665.81
~~1661~~	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			3.4	8/25/2021	588.02	2	1.4	258492.121	13345654.77
~~1662~~	BLKC	Black Cherry	Prunus serotina	1	8.9	0	0	0	0	0	GOOD			3.4	8/25/2021	582.734	3.2	2.4	258612.955	13345665.6
~~1663~~	WASH	White Ash	Fraxinus americana	1	9.4	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.2	8/25/2021	581.255	1.7	1.5	258607.811	13345683.69
~~1664~~	WASH	White Ash	Fraxinus americana	1	9.2	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	5	8/25/2021	586.418	4.3	4.2	258618.959	13345615.92
~~1665~~	COT	Eastern Cottonwood	Populus deltoides	1	11.7	0	0	0	0	0	GOOD			3	8/25/2021	599.913	1.9	1.6	258682.076	13345603.68
~~1666~~	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			3.3	8/25/2021	588.296	1.8	1.5	258627.49	13345641.28
~~1667~~	BLKC	Black Cherry	Prunus serotina	1	10.8	0	0	0	0	0	GOOD			4.6	8/26/2021	588.716	1.8	1.4	258218.85	13345884.66
~~1668~~	BLKC	Black Cherry	Prunus serotina	1	10.2	0	0	0	0	0	GOOD			2.9	8/26/2021	576.92	2.1	2.2	258209.914	13345888.08
~~1669~~	REMX	Red Maple	Acer x freemanii	1	11	0	0	0	0	0	GOOD			2.5	8/26/2021	588.372	1.7	1.5	258204.193	13345892.64
~~1670~~	MUL	White Mulberry	Morus alba	1	8.4	0	0	0	0	0	GOOD			3	8/26/2021	576.877	5.1	4.5	258208.489	13345915.66
~~1671~~	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			3.7	8/26/2021	586.017	1.9	1.4	258237.105	13345888.27
~~1672~~	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			3.4	8/26/2021	581.838	2.2	2.6	258215.749	13345933.96
1673	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			2.9	8/26/2021	589.41	1.9	1.5	258189.204	13345955.86
1674	COT	Eastern Cottonwood	Populus deltoides	1	15.7	0	0	0	0	0	GOOD			3.4	8/26/2021	603.989	3.1	2.7	258191.989	13345962.32
~~1675~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.9	0	0	0	0	0	GOOD			2.9	8/26/2021	589.431	2.1	1.9	258206.021	13345971.14
1676	BLKL	Black Locust	Robinia pseudoacacia	1	19.9	0	0	0	0	0	GOOD			3	8/26/2021	583.847	4.9	5.6	258188.451	13345999.37
1677	BLKL	Black Locust	Robinia pseudoacacia	1	12	0	0	0	0	0	GOOD			2.8	8/26/2021	596.204	2.1	1.9	258176.731	13346010.77
1678	SIBE	Siberian elm	Ulmus pumila	1	11.7	0	0	0	0	0	GOOD			3.3	8/26/2021	585.619	2.1	1.9	258191.727	13346049.11
1679	BLKL	Black Locust	Robinia pseudoacacia	1	8.4	0	0	0	0	0	GOOD			4.4	8/26/2021	599.85	7.7	6.7	258183.289	13346074.83
1680	BOXE	Box-Elder	Acer negundo	1	12.8	0	0	0	0	0	GOOD			3	8/26/2021	587.945	1.9	1.6	258175.66	13346088.74
1681	BLKW	Black Walnut	Juglans nigra	1	10.1	0	0	0	0	0	GOOD			3.1	8/26/2021	589.318	2.3	2	258183.993	13346087.99
1682	BLKW	Black Walnut	Juglans nigra	1	8.7	0	0	0	0	0	GOOD			3.1	8/26/2021	584.281	2	1.5	258181.985	13346099.5
1683	BLKW	Black Walnut	Juglans nigra	1	9.7	0	0	0	0	0	GOOD			3.9	8/26/2021	583.828	2.3	1.7	258195.055	13346083.7
1684	BLKW	Black Walnut	Juglans nigra	1	8.5	0	0	0	0	0	GOOD			3.6	8/26/2021	586.611	2.3	1.9	258191.422	13346069.31
1685	MUL	White Mulberry	Morus alba	1	8.3	8	0	0	0	0	GOOD			3.4	8/26/2021	587.062	2.6	2	258223.807	13346074.2
~~1686~~	MUL	White Mulberry	Morus alba	1	10.2	0	0	0	0	0	GOOD			4.5	8/26/2021	588.007	3.2	2.1	258231.543	13346043.02
~~1687~~	MUL	White Mulberry	Morus alba	1	10.4	0	0	0	0	0	GOOD			3.8	8/26/2021	588.609	3.9	3.1	258231.154	13346022.84
~~1688~~	BOXE	Box-Elder	Acer negundo	1	9.4	0	0	0	0	0	GOOD			4.9	8/26/2021	569.829	10.2	6.7	258246.498	13346032.27
~~1689~~	MUL	White Mulberry	Morus alba	1	9.2	0	0	0	0	0	GOOD			4.6	8/26/2021	577.786	2.8	2.1	258249.082	13346003.03
~~1690~~	NORWM	Norway Maple	Acer platanoides	1	7.8	0	0	0	0	0	GOOD			3.8	8/26/2021	595.513	2.3	1.4	258230.01	13345995.95
~~1691~~	BLKW	Black Walnut	Juglans nigra	1	8.7	0	0	0	0	0	GOOD			4.7	8/26/2021	574.025	2.2	1.4	258226.158	13345990.92
~~1692~~	MUL	White Mulberry	Morus alba	1	10.8	0	0	0	0	0	GOOD			8.1	8/26/2021	600.56	3.7	2.7	258298.086	13345944.63
~~1693~~	WASH	White Ash	Fraxinus americana	1	8.9	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	6.9	8/26/2021	585.468	3.2	1.9	258320.341	13345915
~~1694~~	COT	Eastern Cottonwood	Populus deltoides	1	18.8	0	0	0	0	0	GOOD			3.4	8/26/2021	609.562	2.7	1.8	258349.402	13345935.32
~~1695~~	MUL	White Mulberry	Morus alba	1	13.4	0	0	0	0	0	GOOD			2.9	8/26/2021	581.002	2.2	1.3	258363.474	13345928.1
~~1696~~	BLKC	Black Cherry	Prunus serotina	1	24.8	0	0	0	0	0	GOOD			2.5	8/26/2021	592.503	1.6	1.2	258353.358	13345895.19
~~1697~~	SWEETC	Sweet Cherry	Prunus avium	1	11.3	0	0	0	0	0	GOOD			2.8	8/26/2021	597.254	2	1.4	258246.887	13345912.46
~~1698~~	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			3.5	8/26/2021	573.976	1.8	1.1	258255.71	13345902.65
~~1699~~	BLKC	Black Cherry	Prunus serotina	1	8.2	0	0	0	0	0	GOOD			2.9	8/26/2021	592.577	2	1.3	258232.835	13345928.66
1700	BLKW	Black Walnut	Juglans nigra	1	8.1	0	0	0	0	0	GOOD			3.3	8/26/2021	611.13	3.9	2.4	258259.881	13346091.69
1701	BLKW	Black Walnut	Juglans nigra	1	11.4	0	0	0	0	0	GOOD			3.7	8/26/2021	584.38	2.2	1.5	258266.259	13346106.83
1702	BLKC	Black Cherry	Prunus serotina	1	14.3	12.2	0	0	0	0	GOOD			3.7	8/26/2021	586.347	1.8	1.1	258283.606	13346105.17
1703	BLKW	Black Walnut	Juglans nigra	1	8.4	0	0	0	0	0	GOOD			3.1	8/26/2021	590.359	4.3	2.6	258325.157	13346119.52
1704	BLKC	Black Cherry	Prunus serotina	1	10.1	0	0	0	0	0	GOOD			3	8/26/2021	626.219	2.3	1.4	258325.489	13346129.2
1705	BLKC	Black Cherry	Prunus serotina	1	11.6	10.4	0	0	0	0	GOOD			3	8/26/2021	566.271	2.6	1.6	258331.604	13346107.17
1706	HACB	Hackberry	Celtis occidentalis	1	11.5	0	0	0	0	0	GOOD			3	8/26/2021	599.231	2.7	1.7	258335.26	13346107.57
1707	BLKC	Black Cherry	Prunus serotina	1	14.3	0	0	0	0	0	GOOD			3.5	8/26/2021	585.535	1.8	1.2	258320.808	13346089.76
1708	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3.2	8/26/2021	595.277	1.7	1.7	258310.701	13346082.7
1709	WOAK	White Oak	Quercus alba	1	8	0	0	0	0	0	GOOD			2.9	8/26/2021	586.282	5.5	3.6	258304.156	13346067.35
~~1710~~	MUL	White Mulberry	Morus alba	1	10.8	0	0	0	0	0	GOOD			3.1	8/26/2021	582.932	2.3	1.5	258309.646	13346039.11
~~1711~~	BLKC	Black Cherry	Prunus serotina	1	14.2	0	0	0	0	0	GOOD			3.2	8/26/2021	588.884	2.7	1.8	258305.022	13346045.4
~~1712~~	BLKC	Black Cherry	Prunus serotina	1	14.8	0	0	0	0	0	GOOD			2.5	8/26/2021	585.239	3.7	2.4	258323.885	13346015.14
~~1713~~	MUL	White Mulberry	Morus alba	1	8.4	0	0	0	0	0	GOOD			3	8/26/2021	595.677	2.4	1.5	258303.97	13346010.89
~~1714~~	CEDAR	Red-Cedar	Juniperus virginiana	1	17.3	0	0	0	0	0	GOOD			3.2	8/26/2021	590.637	2.5	1.8	258353.2	13346032.75
~~1715~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.9	8/26/2021	603.508	2	1.4	258351.318	13346015.74
~~1716~~	WASH	White Ash	Fraxinus americana	1	9.3	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	8/26/2021	596.947	4.4	3.2	258351.828	13345995.57
~~1717~~	BLKC	Black Cherry	Prunus serotina	1	12	10.4	0	0	0	0	GOOD			3	8/26/2021	606.651	2.3	1.7	258350.021	13345963.38
~~1718~~	BLKC	Black Cherry	Prunus serotina	1	8.9	0	0	0	0	0	GOOD			2.9	8/26/2021	586.965	1.8	1.4	258368.06	13345997.24
~~1719~~	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			2.9	8/26/2021	591.661	4.3	2.9	258369.257	13346014.69
~~1720~~	MUL	White Mulberry	Morus alba	1	9.7	0	0	0	0	0	GOOD			3	8/26/2021	599.199	3	2	258372.569	13346028.69
1721	BLKC	Black Cherry	Prunus serotina	1	10.5	0	0	0	0	0	GOOD			2.6	8/26/2021	586.186	2.2	1.9	258359.227	13346067.01
1722	SWEETC	Sweet Cherry	Prunus avium	1	12.4	0	0	0	0	0	GOOD			2.9	8/26/2021	596.245	3.8	2.9	258356.143	13346077.14
1723	BLKC	Black Cherry	Prunus serotina	1	12.8	0	0	0	0	0	GOOD			6.1	8/26/2021	588.004	2.3	1.7	258384.579	13346106.79
1724	BLKW	Black Walnut	Juglans nigra	1	8.2	0	0	0	0	0	GOOD			2.9	8/26/2021	592.89	5.3	5.1	258323.536	13346131.44
1725	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.9	8/26/2021	586.122	2.2	1.8	258400.314	13346107.27
1726	BLKW	Black Walnut	Juglans nigra	1	9.2	8	0	0	0	0	GOOD			6.8	8/26/2021	588.374	3	2.3	258238.65	13346146.86
1727	BLKC	Black Cherry	Prunus serotina	1	10.5	0	0	0	0	0	GOOD			2.5	8/26/2021	588.835	3.9	3.7	258251.694	13346133.2
1728	BLKW	Black Walnut	Juglans nigra	1	10.2	0	0	0	0	0	GOOD			2.5	8/26/2021	588.689	2.6	2.3	258248.368	13346130.58
1729	AELM	American elm	Ulmus americana	1	9.2	0	0	0	0	0	GOOD			10.3	8/26/2021	623.455	2.1	1.8	258406.614	13346100.82
1730	MUL	White Mulberry	Morus alba	1	9.2	8.4	0	0	0	0	GOOD			7.6	8/26/2021	597.388	2.9	1.9	258451.307	13346076.49
~~1731~~	BLKC	Black Cherry	Prunus serotina	1	12.3	10.1	0	0	0	0	GOOD			3.1	8/26/2021	591.471	2.2	1.5	258491.125	13346055.11
~~1732~~	BLKC	Black Cherry	Prunus serotina	1	10.8	0	0	0	0	0	GOOD			2.8	8/26/2021	595.968	1.8	1.3	258494.925	13346050.63
~~1733~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	6.1	8/26/2021	570.324	3	2.3	258531.873	13346038.17
~~1734~~	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			4.4	8/26/2021	573.327	9.4	8.3	258531.706	13346049.1
~~1735~~	BLKL	Black Locust	Robinia pseudoacacia	1	14.2	11.6	11.5	0	0	0	GOOD			5.9	8/26/2021	578.464	3	2.3	258536.151	13345999.88
~~1736~~	BLKL	Black Locust	Robinia pseudoacacia	1	13.4	0	0	0	0	0	GOOD			2.8	8/26/2021	589.432	8.6	6.4	258532.711	13345995.06
~~1737~~	BOXE	Box-Elder	Acer negundo	1	9.8	9.4	0	0	0	0	GOOD			141.3	8/26/2021	599.54	5.7	4.5	258519.973	13345981.25
~~1738~~	MUL	White Mulberry	Morus alba	1	10.8	0	0	0	0	0	GOOD			3.2	8/26/2021	594.284	2.1	1.5	258471.796	13345987.15
~~1739~~	BOXE	Box-Elder	Acer negundo	1	8.8	0	0	0	0	0	FAIR		Structure	2.9	8/26/2021	578.848	1.9	1.6	258468.266	13346001.92
~~1740~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.4	8/26/2021	582.484	2.4	1.7	258438.99	13346006.58
~~1741~~	MUL	White Mulberry	Morus alba	1	15.2	0	0	0	0	0	GOOD			4.2	8/26/2021	588.158	1.8	1.2	258412.596	13345945.46
~~1742~~	BOXE	Box-Elder	Acer negundo	1	9.2	0	0	0	0	0	FAIR		Structure	2.7	8/26/2021	590.105	5.6	4.1	258438.038	13345945.16
~~1743~~	BOXE	Box-Elder	Acer negundo	1	12.3	0	0	0	0	0	GOOD			3.5	8/26/2021	590.462	1.8	1.2	258437.434	13345971.16
~~1744~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4	8/26/2021	582.658	2.6	1.7	258423.545	13345972.06
~~1745~~	MUL	White Mulberry	Morus alba	1	8.3	0	0	0	0	0	GOOD			2.7	8/26/2021	584.542	1.7	1.2	258447.291	13345974.6
~~1746~~	BLKC	Black Cherry	Prunus serotina	1	13.4	12.9	9.3	0	0	0	GOOD			141.3	8/26/2021	585.265	3.9	2.4	258481.927	13345985.56
~~1747~~	WASH	White Ash	Fraxinus americana	1	10	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.7	8/26/2021	593.274	3.5	2.2	258491.054	13345943.32
~~1748~~	SWEETC	Sweet Cherry	Prunus avium	1	9.2	0	0	0	0	0	GOOD			4.2	8/26/2021	586.52	2.1	1.5	258492.769	13345933.29
~~1749~~	WASH	White Ash	Fraxinus americana	1	9.8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	8.1	8/26/2021	593.321	2.1	1.5	258506.232	13345910.97
~~1750~~	WASH	White Ash	Fraxinus americana	1	10.8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.8	8/26/2021	614.881	2.4	1.6	258506.658	13345914.39
~~1751~~	COT	Eastern Cottonwood	Populus deltoides	1	17.4	0	0	0	0	0	GOOD			2.8	8/26/2021	583.308	2.3	1.6	258520.941	13345957.12
~~1752~~	COT	Eastern Cottonwood	Populus deltoides	1	15.8	0	0	0	0	0	GOOD			2.4	8/26/2021	592.222	2.2	1.6	258514.021	13345952.96
~~1753~~	COT	Eastern Cottonwood	Populus deltoides	1	19.7	0	0	0	0	0	GOOD			2.4	8/26/2021	595.685	2.2	1.3	258528.519	13345948.08
~~1754~~	COT	Eastern Cottonwood	Populus deltoides	1	9.6	0	0	0	0	0	GOOD			3.3	8/26/2021	589.671	2.3	1.6	258522.431	13345950.46
~~1755~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	9.9	0	0	0	0	GOOD			6.7	8/26/2021	598.859	2	1.4	258555.549	13345993.76
~~1756~~	BLKL	Black Locust	Robinia pseudoacacia	1	12.8	0	0	0	0	0	GOOD			2.9	8/26/2021	579.566	6.8	4	258554.431	13345986.64
~~1757~~	MUL	White Mulberry	Morus alba	1	13.5	11.8	0	0	0	0	GOOD			2.8	8/26/2021	604.999	2.9	2.1	258572.692	13345977.22
~~1758~~	MUL	White Mulberry	Morus alba	1	11.4	0	0	0	0	0	GOOD			2.9	8/26/2021	569.083	2.1	1.4	258588.782	13345968.02
~~1759~~	MUL	White Mulberry	Morus alba	1	9.6	0	0	0	0	0	GOOD			2.8	8/26/2021	579.922	1.8	1.5	258596.449	13345972.93
~~1760~~	MUL	White Mulberry	Morus alba	1	9	0	0	0	0	0	GOOD			2.9	8/26/2021	587.367	2.9	1.9	258593.291	13346010.67
~~1761~~	BOXE	Box-Elder	Acer negundo	1	11.3	0	0	0	0	0	GOOD			4.1	8/26/2021	578.843	2.4	1.6	258608.732	13346015.9
~~1762~~	ROAK	Red Oak	Quercus rubra	1	8.4	0	0	0	0	0	GOOD			2.5	8/26/2021	585.27	1.8	1.1	258623.872	13345954.04
~~1763~~	BOXE	Box-Elder	Acer negundo	1	11.3	0	0	0	0	0	GOOD			2.5	8/26/2021	591.942	7.4	4.2	258638.372	13345943.67
~~1764~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.9	8/26/2021	596.98	2	1.1	258664.045	13345949.82
~~1765~~	WASH	White Ash	Fraxinus americana	1	13	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	8/26/2021	595.502	1.9	1.2	258669.02	13345951
~~1766~~	WASH	White Ash	Fraxinus americana	1	8.3	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	4.7	8/26/2021	618.425	3.3	2.2	258688.869	13345961.6
~~1767~~	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			2.9	8/26/2021	577.348	1.8	1.2	258690.627	13345994.58
~~1768~~	BLKC	Black Cherry	Prunus serotina	1	10	0	0	0	0	0	GOOD			2.9	8/26/2021	587.857	2.2	1.5	258702.054	13345992.83
~~1769~~	MUL	White Mulberry	Morus alba	1	9.5	0	0	0	0	0	GOOD			2.9	8/26/2021	590.997	2.2	1.3	258687.569	13346003.42
~~1770~~	BLKC	Black Cherry	Prunus serotina	1	12.8	0	0	0	0	0	GOOD			2.9	8/26/2021	571.867	3.3	1.8	258672.395	13346012.59
~~1771~~	BLKW	Black Walnut	Juglans nigra	1	11.2	0	0	0	0	0	GOOD			2.9	8/26/2021	583.754	1.7	1.1	258742.303	13345996.08
~~1772~~	BLKW	Black Walnut	Juglans nigra	1	14	0	0	0	0	0	GOOD			8.1	8/26/2021	588.067	2.7	2.1	258758.889	13345966.62
~~1773~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	8/26/2021	580.592	4.4	3.4	258780.106	13345948.37
~~1774~~	BLKW	Black Walnut	Juglans nigra	1	12.8	0	0	0	0	0	GOOD			3	8/26/2021	576.906	1.9	1.5	258767.397	13345942.38
~~1775~~	SILM	Silver Maple	Acer saccharinum	1	14.5	0	0	0	0	0	GOOD			2.7	8/26/2021	586.178	2	1.6	258729.91	13345919.03
~~1776~~	BLKC	Black Cherry	Prunus serotina	1	10.6	10.5	0	0	0	0	GOOD			3.2	8/26/2021	591.204	2	2.1	258704.433	13345910.79
~~1777~~	WASH	White Ash	Fraxinus americana	1	9.5	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.8	8/26/2021	592.262	2.3	2.1	258719.056	13345875.64
~~1778~~	BLKC	Black Cherry	Prunus serotina	1	10.4	9.5	0	0	0	0	GOOD			2.7	8/26/2021	584.269	1.7	1.7	258705.393	13345855.14
~~1779~~	BLKC	Black Cherry	Prunus serotina	1	9.4	0	0	0	0	0	GOOD			3	8/26/2021	574.444	1.7	1.3	258703.352	13345860.54
~~1780~~	BLKW	Black Walnut	Juglans nigra	1	9	0	0	0	0	0	GOOD			2.8	8/26/2021	589.191	3.8	3.6	258802.121	13345933.68
~~1781~~	COT	Eastern Cottonwood	Populus deltoides	1	21.3	0	0	0	0	0	GOOD			2.7	8/26/2021	591.702	2.2	2	258799.444	13345911.37
~~1782~~	COT	Eastern Cottonwood	Populus deltoides	1	15.5	0	0	0	0	0	GOOD			2.9	8/26/2021	577.249	1.8	1.5	258784.763	13345887.74

~~1783~~	COT	Eastern Cottonwood	Populus deltoides	1	14.4	0	0	0	0	0	GOOD			2.7	8/26/2021	596.814	2.4	2.5	258786.357	13345883.39
~~1784~~	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			4.9	8/26/2021	601.829	3.9	3.3	258777.092	13345875.76
~~1785~~	BLKW	Black Walnut	Juglans nigra	1	8.4	0	0	0	0	0	GOOD			3.8	8/26/2021	572.147	2.1	1.7	258840.403	13345938.11
~~1786~~	COT	Eastern Cottonwood	Populus deltoides	1	27.8	0	0	0	0	0	GOOD			3.7	8/26/2021	606.588	2	1.5	258867.081	13345953.44
~~1787~~	COT	Eastern Cottonwood	Populus deltoides	1	12.8	0	0	0	0	0	GOOD			3.9	8/26/2021	574.83	3.7	2.9	258885.139	13345955.28
~~1788~~	AELM	American elm	Ulmus americana	1	10.6	0	0	0	0	0	GOOD			2.9	8/26/2021	587.044	4.7	4.4	258882.464	13345964.78
~~1789~~	HACB	Hackberry	Celtis occidentalis	1	8.5	0	0	0	0	0	GOOD			2.9	8/26/2021	577.046	3.8	3.4	258862.537	13345959.12
~~1790~~	COT	Eastern Cottonwood	Populus deltoides	1	15.7	14.7	0	0	0	0	GOOD			72.8	8/26/2021	589.072	2.8	2.9	258840.508	13345962
~~1791~~	COT	Eastern Cottonwood	Populus deltoides	1	14.3	0	0	0	0	0	GOOD			3	8/26/2021	613.402	8.5	7.7	258854.983	13345974.85
~~1792~~	COT	Eastern Cottonwood	Populus deltoides	1	19.8	0	0	0	0	0	GOOD			3	8/26/2021	592.185	2.9	2.4	258849.981	13345973.52
~~1793~~	BOXE	Box-Elder	Acer negundo	1	8.3	0	0	0	0	0	GOOD			4.2	8/26/2021	584.179	7.9	6.2	258847.93	13345982.96
~~1794~~	COT	Eastern Cottonwood	Populus deltoides	1	18	0	0	0	0	0	POOR		Structure	3	8/26/2021	590.75	2.6	2.2	258864.086	13345989.64
~~1795~~	AELM	American elm	Ulmus americana	1	12.1	0	0	0	0	0	GOOD			4	8/26/2021	603.688	3	2.9	258875.17	13345985.52
~~1796~~	COT	Eastern Cottonwood	Populus deltoides	1	12.4	0	0	0	0	0	GOOD			6.5	8/26/2021	614.315	3.5	3.4	258861.515	13346006.85
~~1797~~	SWEETC	Sweet Cherry	Prunus avium	1	8.2	0	0	0	0	0	GOOD			2.4	8/26/2021	585.773	4	3.8	258897.102	13345989.93
~~1798~~	SWEETC	Sweet Cherry	Prunus avium	1	8.3	0	0	0	0	0	GOOD			3.2	8/26/2021	587.173	5.1	4.4	258903.379	13345986.29
~~1799~~	SWEETC	Sweet Cherry	Prunus avium	1	9.8	0	0	0	0	0	GOOD			2.9	8/26/2021	575.453	1.9	2	258905.599	13345989.55
~~1800~~	SWEETC	Sweet Cherry	Prunus avium	1	8.6	0	0	0	0	0	GOOD			3.4	8/26/2021	600.054	1.9	1.4	258907.802	13345986
~~1801~~	WASH	White Ash	Fraxinus americana	1	9.8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.5	8/27/2021	582.555	1.7	1.7	258550.654	13346037.06
~~1802~~	BLKW	Black Walnut	Juglans nigra	1	9.2	0	0	0	0	0	GOOD			8.4	8/27/2021	586.292	2.8	2.5	258642.345	13346039.93
~~1803~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			5.8	8/27/2021	594.281	3.2	3.3	258642.601	13346039.77
1804	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			3.3	8/27/2021	590.184	2	1.7	258732.551	13346057.34
1805	BLKL	Black Locust	Robinia pseudoacacia	1	12.4	0	0	0	0	0	GOOD			3.6	8/27/2021	594.069	4.4	3.3	258730.262	13346075.91
1806	BLKL	Black Locust	Robinia pseudoacacia	1	14.2	0	0	0	0	0	GOOD			3.2	8/27/2021	588.517	6.9	6.5	258736.707	13346084.13
1807	BLKW	Black Walnut	Juglans nigra	1	11.4	0	0	0	0	0	GOOD			6	8/27/2021	577.188	7.1	5.7	258757.795	13346057.88
1808	BOXE	Box-Elder	Acer negundo	1	10.9	9.8	0	0	0	0	GOOD			3	8/27/2021	598.433	8	6.9	258747.883	13346044.67
~~1809~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	0	0	0	0	0	GOOD			3.2	8/27/2021	558.483	3	2.2	258764.02	13346008.38
1810	BLKL	Black Locust	Robinia pseudoacacia	1	10.1	0	0	0	0	0	GOOD			4.5	8/27/2021	604.762	3.8	2.6	258786.261	13346070.18
1811	BLKL	Black Locust	Robinia pseudoacacia	1	10.6	0	0	0	0	0	GOOD			3.4	8/27/2021	568.036	8.7	6.4	258804.296	13346070.58
1812	BLKL	Black Locust	Robinia pseudoacacia	1	14.6	0	0	0	0	0	GOOD			4.4	8/27/2021	573.177	3.4	2.5	258795.25	13346099.13
1813	BLKL	Black Locust	Robinia pseudoacacia	1	16.7	9	0	0	0	0	GOOD			5.6	8/27/2021	603.309	4.8	3.6	258799.781	13346102.47
1814	BOXE	Box-Elder	Acer negundo	1	10.5	0	0	0	0	0	POOR		Structure	3.4	8/27/2021	594.851	6.7	4.7	258826.014	13346095.31
1815	BLKL	Black Locust	Robinia pseudoacacia	1	15.4	0	0	0	0	0	GOOD			2.8	8/27/2021	576.382	2.3	2.3	258816.054	13346096.06
1816	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			3.8	8/27/2021	592.076	2.6	2.3	258830.417	13346109.14
1817	BLKL	Black Locust	Robinia pseudoacacia	1	14.3	0	0	0	0	0	GOOD			6.3	8/27/2021	592.93	7.7	5.3	258832.641	13346118.37
1818	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3.4	8/27/2021	582.548	2.4	1.7	258833.991	13346121.29
1819	BLKC	Black Cherry	Prunus serotina	1	8.3	0	0	0	0	0	GOOD			4.5	8/27/2021	556.965	10.3	9.6	258910.41	13346152.83
1820	BLKL	Black Locust	Robinia pseudoacacia	1	12.9	0	0	0	0	0	GOOD			2.9	8/27/2021	597.065	8.3	5.4	258842.535	13346133.69
1821	HACB	Hackberry	Celtis occidentalis	1	11.6	0	0	0	0	0	GOOD			3.2	8/27/2021	613.962	4.8	3	258832.194	13346120.8
1822	BLKL	Black Locust	Robinia pseudoacacia	1	13	0	0	0	0	0	GOOD			3.2	8/27/2021	614.575	4.9	3.3	258848.642	13346146.41
1823	HACB	Hackberry	Celtis occidentalis	1	10.2	0	0	0	0	0	GOOD			6.9	8/27/2021	576.904	3.1	2.2	258872.654	13346130.95
1824	BLKL	Black Locust	Robinia pseudoacacia	1	13.8	0	0	0	0	0	GOOD			3.8	8/27/2021	596.063	10	7.3	258857.381	13346105.46
1825	BLKL	Black Locust	Robinia pseudoacacia	1	17.5	0	0	0	0	0	GOOD			3.3	8/27/2021	576.25	3.1	2.1	258862.178	13346110.67
1826	BLKL	Black Locust	Robinia pseudoacacia	1	13.5	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	4.6	8/27/2021	565.342	9.1	6.1	258877.412	13346114.96
1827	BLKL	Black Locust	Robinia pseudoacacia	1	12.4	0	0	0	0	0	GOOD			2.3	8/27/2021	578.965	6.3	3.9	258870.174	13346140.77
1828	BLKL	Black Locust	Robinia pseudoacacia	1	15.8	0	0	0	0	0	GOOD			3.9	8/27/2021	592.224	7.6	4.6	258871.842	13346137.65
1829	BLKL	Black Locust	Robinia pseudoacacia	1	22.7	0	0	0	0	0	GOOD			3.3	8/27/2021	586.942	5.1	3.7	258877.821	13346142.1
1830	BLKL	Black Locust	Robinia pseudoacacia	1	11.6	0	0	0	0	0	GOOD			3	8/27/2021	585.168	11	6.7	258909.479	13346117.77
1831	HACB	Hackberry	Celtis occidentalis	1	10.8	0	0	0	0	0	GOOD			3.5	8/27/2021	592.267	3.4	3.3	258923.913	13346113.99
1832	HACB	Hackberry	Celtis occidentalis	1	9	0	0	0	0	0	GOOD			2.9	8/27/2021	572.047	4.5	3.3	258905.971	13346142.42
1833	BLKL	Black Locust	Robinia pseudoacacia	1	10.7	0	0	0	0	0	GOOD			4.8	8/27/2021	594.724	4.4	2.7	258897.87	13346097.66
1834	HACB	Hackberry	Celtis occidentalis	1	11.3	0	0	0	0	0	GOOD			6.9	8/27/2021	574.671	2.8	1.6	258903.751	13346096.9
1835	BLKL	Black Locust	Robinia pseudoacacia	1	20.5	0	0	0	0	0	GOOD			4.4	8/27/2021	555.351	3.6	2	258903.55	13346083.18
1836	AELM	American elm	Ulmus americana	1	9.1	0	0	0	0	0	GOOD			4.6	8/27/2021	617.865	5.8	3.5	258875.835	13346093.84
1837	BLKL	Black Locust	Robinia pseudoacacia	1	11.9	0	0	0	0	0	GOOD			14.9	8/27/2021	580.477	4.5	2.9	258905.719	13346078.7
1838	BLKW	Black Walnut	Juglans nigra	1	25.6	0	0	0	0	0	GOOD			6.7	8/27/2021	607.698	4.1	2.5	258884.732	13346078.73
1839	AELM	American elm	Ulmus americana	1	9.6	0	0	0	0	0	GOOD			5.7	8/27/2021	606.748	9.1	5	258899.676	13346055.5
1840	AELM	American elm	Ulmus americana	1	8.7	0	0	0	0	0	GOOD			3.3	8/27/2021	590.058	5.6	3.1	258885.414	13346058.42
1841	BLKL	Black Locust	Robinia pseudoacacia	1	10.1	0	0	0	0	0	FAIR		Structure	2.6	8/27/2021	593.706	7.7	4.5	258863.655	13346054.45
1842	BLKL	Black Locust	Robinia pseudoacacia	1	11.2	0	0	0	0	0	GOOD			2.8	8/27/2021	610.177	6.6	3.8	258853.317	13346053.36
1843	BLKL	Black Locust	Robinia pseudoacacia	1	12.5	0	0	0	0	0	GOOD			3	8/27/2021	588.637	2.2	1.5	258875.924	13346047.77
1844	BLKL	Black Locust	Robinia pseudoacacia	1	12.6	0	0	0	0	0	GOOD			3.4	8/27/2021	603.371	3.9	2.6	258863.539	13346045.17
1845	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	POOR		Structure	2.9	8/27/2021	578.73	1.8	1.3	258852.674	13346050.64
1846	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			2.9	8/27/2021	589.649	1.9	1.5	258850.636	13346056.14
1847	BLKL	Black Locust	Robinia pseudoacacia	1	15	0	0	0	0	0	GOOD			141.3	8/27/2021	580.121	1.8	1.2	258836.634	13346066.89
1848	SWEETC	Sweet Cherry	Prunus avium	1	10.1	0	0	0	0	0	GOOD			3	8/27/2021	588.839	2.1	1.3	258827.327	13346060.5
1849	BLKL	Black Locust	Robinia pseudoacacia	1	20.1	0	0	0	0	0	GOOD			3.4	8/27/2021	590.1	2	1.5	258848.469	13346029.92
1850	BLKL	Black Locust	Robinia pseudoacacia	1	14	0	0	0	0	0	GOOD			3	8/27/2021	583.543	2.2	1.4	258848.481	13346035.92
~~1851~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.1	10	0	0	0	0	GOOD			3.5	8/27/2021	610.623	9.4	5.8	258821.897	13346017.82
~~1852~~	BLKL	Black Locust	Robinia pseudoacacia	1	13.7	0	0	0	0	0	GOOD			4.8	8/27/2021	612.746	7.8	4.5	258819.343	13346019.75
~~1853~~	BLKL	Black Locust	Robinia pseudoacacia	1	14.2	0	0	0	0	0	GOOD			6.7	8/27/2021	586.434	2.7	1.7	258812.16	13346028.88
~~1854~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.6	0	0	0	0	0	GOOD			3.7	8/27/2021	603.478	4	2.5	258807.553	13346029.07
~~1855~~	BLKL	Black Locust	Robinia pseudoacacia	1	8.9	0	0	0	0	0	GOOD			3.2	8/27/2021	595.881	2.4	1.6	258805.271	13346021.6
~~1856~~	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3	8/27/2021	590.202	2.3	1.6	258803.893	13346012.84
~~1857~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	GOOD			2.8	8/27/2021	586.58	2.7	1.7	258805.847	13346009.14
~~1858~~	BLKL	Black Locust	Robinia pseudoacacia	1	14	0	0	0	0	0	GOOD			5.8	8/27/2021	587.339	3.6	2.4	258796.835	13346018.47
~~1859~~	BLKL	Black Locust	Robinia pseudoacacia	1	9.2	0	0	0	0	0	GOOD			2.9	8/27/2021	590.638	1.6	1.2	258783.357	13346027.6
~~1860~~	BLKL	Black Locust	Robinia pseudoacacia	1	12.3	0	0	0	0	0	GOOD			2.9	8/27/2021	582.747	2.7	1.9	258779.726	13346018.27
~~1861~~	SWEETC	Sweet Cherry	Prunus avium	1	10.1	0	0	0	0	0	GOOD			3.6	8/27/2021	598.288	1.6	1.4	258790.998	13345983.63
~~1862~~	BLKC	Black Cherry	Prunus serotina	1	13.1	0	0	0	0	0	GOOD			3.7	8/27/2021	592.833	2.1	1.4	258812.742	13345998.57
~~1863~~	BOXE	Box-Elder	Acer negundo	1	10.1	0	0	0	0	0	GOOD			2.9	8/27/2021	598.765	2	1.6	258808.887	13345964.4
~~1864~~	SWEETC	Sweet Cherry	Prunus avium	1	9.7	0	0	0	0	0	GOOD			5.4	8/27/2021	587.842	2	1.6	258809.652	13345973.37
~~1865~~	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	FAIR		Structure	141.3	8/27/2021	592.678	2.4	1.9	258908.63	13345979.76
~~1866~~	BLKC	Black Cherry	Prunus serotina	1	9.2	0	0	0	0	0	GOOD			2.6	8/27/2021	587.111	2.9	2.3	258945.143	13345990.93
1867	HACB	Hackberry	Celtis occidentalis	1	12.4	0	0	0	0	0	GOOD			3.2	8/27/2021	596.679	2.8	2.5	258922.672	13346025.79
~~1868~~	AELM	American elm	Ulmus americana	1	10.5	0	0	0	0	0	GOOD			2.8	8/27/2021	597.221	2.8	2.3	258918.326	13346003.37
~~1869~~	SWEETC	Sweet Cherry	Prunus avium	1	9.1	0	0	0	0	0	GOOD			3.1	8/27/2021	604.514	2.5	2.1	258903.097	13346006.13
1870	HACB	Hackberry	Celtis occidentalis	1	18.8	0	0	0	0	0	GOOD			3.2	8/27/2021	585.844	1.8	1.5	258939.261	13346046.92
1871	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			3.1	8/27/2021	575.534	2.7	2.2	258944.855	13346057.53
1872	BLKL	Black Locust	Robinia pseudoacacia	1	10.8	0	0	0	0	0	GOOD			6.2	8/27/2021	584.506	1.9	2	258934.401	13346076.34
1873	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			3.1	8/27/2021	567.915	2.2	1.9	258935.658	13346076.85
1874	BLKL	Black Locust	Robinia pseudoacacia	1	20.1	0	0	0	0	0	GOOD			5.9	8/27/2021	588.022	5.6	6.1	258970.723	13346081.56
1875	AELM	American elm	Ulmus americana	1	11.1	0	0	0	0	0	GOOD			3.1	8/27/2021	579.185	2	2	258973.068	13346060.66
1876	BLKL	Black Locust	Robinia pseudoacacia	1	13.1	0	0	0	0	0	GOOD			2.8	8/27/2021	584.124	4.3	3.7	258967.219	13346067.86
1877	BLKL	Black Locust	Robinia pseudoacacia	1	25.7	0	0	0	0	0	GOOD			3.5	8/27/2021	562.729	2.3	2.2	258983.786	13346098.24
1878	BLKL	Black Locust	Robinia pseudoacacia	1	19.5	0	0	0	0	0	GOOD			2.7	8/27/2021	586.394	2.5	2.4	258961.438	13346109.52
1879	AELM	American elm	Ulmus americana	1	8.8	0	0	0	0	0	GOOD			3.2	8/27/2021	583.582	3.1	3.2	258992.936	13346104.62
1880	HACB	Hackberry	Celtis occidentalis	1	11.7	0	0	0	0	0	GOOD			3.9	8/27/2021	577.66	11.1	11.7	258969.199	13346135.95
1881	BLKL	Black Locust	Robinia pseudoacacia	1	16.7	0	0	0	0	0	GOOD			8.7	8/27/2021	554.569	8.5	6.9	258954.117	13346150.07
1882	SHAGH	Shagbark Hickory	Carya ovata	1	22.4	0	0	0	0	0	GOOD			3	8/27/2021	575.432	2.6	2.6	258959.425	13346138.22
1883	BLKL	Black Locust	Robinia pseudoacacia	1	13.4	0	0	0	0	0	GOOD			141.3	8/27/2021	571.661	2.6	2.1	258970.347	13346166.43
1884	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			36	8/27/2021	579.748	4.4	3.6	258968.074	13346168.89
1885	AELM	American elm	Ulmus americana	1	21.4	0	0	0	0	0	GOOD			58.1	8/27/2021	570.715	2	2	258958.857	13346188.71
1886	BLKL	Black Locust	Robinia pseudoacacia	1	8.6	0	0	0	0	0	GOOD			5.5	8/27/2021	605.146	5	4.5	258982.428	13346146.64
1887	BLKL	Black Locust	Robinia pseudoacacia	1	12.8	0	0	0	0	0	GOOD			3.5	8/27/2021	582.178	1.9	1.8	259009.997	13346125.77
1888	AELM	American elm	Ulmus americana	1	9.6	0	0	0	0	0	GOOD			9	8/27/2021	598.164	5.2	3.4	258999.824	13346110.86
1889	BLKL	Black Locust	Robinia pseudoacacia	1	20.3	0	0	0	0	0	GOOD			141.3	8/27/2021	596.669	2	2.1	259002.034	13346096.51
1890	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			9.5	8/27/2021	575.374	3	2.5	258999.831	13346095.56
1891	BLKL	Black Locust	Robinia pseudoacacia	1	9.4	0	0	0	0	0	POOR		Structure	2.8	8/27/2021	605.223	5.2	4.4	259022.627	13346098.11
1892	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			3.5	8/27/2021	585.405	3.5	2.5	259002.512	13346087.82
1893	BLKL	Black Locust	Robinia pseudoacacia	1	12.1	0	0	0	0	0	GOOD			4.4	8/27/2021	589.041	1.9	1.6	258984.263	13346087.88
1894	BLKL	Black Locust	Robinia pseudoacacia	1	9.9	0	0	0	0	0	GOOD			2.8	8/27/2021	580.234	1.7	1.7	258992.771	13346076.88
1895	BLKL	Black Locust	Robinia pseudoacacia	1	14.1	0	0	0	0	0	GOOD			5	8/27/2021	585.048	2.4	2.7	258975.925	13346063.59
1896	BLKL	Black Locust	Robinia pseudoacacia	1	8.5	0	0	0	0	0	GOOD			6.5	8/27/2021	579.328	1.6	1.4	258969.948	13346061.63
1897	BLKL	Black Locust	Robinia pseudoacacia	1	16.9	9.7	0	0	0	0	FAIR		Structure	6.3	8/27/2021	606.418	3.2	2.6	258982.092	13346038.74
1898	BLKL	Black Locust	Robinia pseudoacacia	1	12.4	0	0	0	0	0	GOOD			2.6	8/27/2021	597.843	5.9	4.4	258976.303	13346031.37
~~1899~~	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			2.9	8/27/2021	588.027	3.2	2.7	258970.095	13346014.58
~~1900~~	BLKL	Black Locust	Robinia pseudoacacia	1	15.1	13.3	0	0	0	0	GOOD			3.1	8/27/2021	579.812	1.9	1.7	258955.381	13346003.23
~~1901~~	BLKL	Black Locust	Robinia pseudoacacia	1	13.3	0	0	0	0	0	GOOD			2.9	8/27/2021	577.907	1.9	1.4	258967.351	13346003.79
1902	HACB	Hackberry	Celtis occidentalis	1	8.4	0	0	0	0	0	GOOD			3.2	8/27/2021	592.511	2	1.4	258977.849	13345990.87
1903	BLKL	Black Locust	Robinia pseudoacacia	1	8.3	0	0	0	0	0	GOOD			5.5	8/27/2021	593.926	1.8	1.5	258979.563	13345984.25
1904	BLKL	Black Locust	Robinia pseudoacacia	1	11	0	0	0	0	0	GOOD			2.3	8/27/2021	596.356	1.8	1.2	258976.011	13345986.51
1905	BLKL	Black Locust	Robinia pseudoacacia	1	16.5	0	0	0	0	0	GOOD			2.9	8/27/2021	595.355	4.1	3.3	258977.158	13345974.72
~~1906~~	BLKL	Black Locust	Robinia pseudoacacia	1	10.8	0	0	0	0	0	GOOD			3	8/27/2021	594.123	5.1	4.1	258953.787	13345974.9
~~1907~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.9	0	0	0	0	0	GOOD			2.9	8/27/2021	585.632	1.9	1.3	258951.635	13345961.87
1908	BLKL	Black Locust	Robinia pseudoacacia	1	10.6	0	0	0	0	0	GOOD			5.6	8/27/2021	588.282	2.5	1.7	258982.448	13345968.16
1909	BLKL	Black Locust	Robinia pseudoacacia	1	13.6	10.8	0	0	0	0	GOOD			7.8	8/27/2021	605.028	6.7	4.8	258978.287	13345967.23
1910	BLKL	Black Locust	Robinia pseudoacacia	1	8.6	0	0	0	0	0	GOOD			2.5	8/27/2021	586.383	1.8	1.4	258985.655	13345969.66
1911	BLKL	Black Locust	Robinia pseudoacacia	1	29.3	0	0	0	0	0	GOOD			3	8/27/2021	592.535	2.5	1.8	258998.947	13345978.81
1912	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			7.3	8/27/2021	595.023	5.2	3.2	259004.206	13345992.96
1913	BLKL	Black Locust	Robinia pseudoacacia	1	16.8	0	0	0	0	0	GOOD			5.9	8/27/2021	600.995	4.8	2.9	258992.315	13346009.93
1914	BLKL	Black Locust	Robinia pseudoacacia	1	11.5	0	0	0	0	0	GOOD			4.6	8/27/2021	567.66	2.5	1.6	258998.26	13345996.43
1915	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	0	0	0	0	0	GOOD			6.3	8/27/2021	592.41	2.3	1.4	259000.685	13346025.4
1916	BLKL	Black Locust	Robinia pseudoacacia	1	19.7	0	0	0	0	0	GOOD			3	8/27/2021	578.385	1.9	1.4	258993.25	13346021.99
1917	BLKL	Black Locust	Robinia pseudoacacia	1	13.3	0	0	0	0	0	GOOD			3.9	8/27/2021	572.548	4.2	4.2	259020.979	13346017.44
1918	BLKL	Black Locust	Robinia pseudoacacia	1	12.5	0	0	0	0	0	GOOD			3	8/27/2021	577.332	3.1	2.3	259019.986	13346017.67
1919	AELM	American elm	Ulmus americana	1	10.3	0	0	0	0	0	GOOD			6.2	8/27/2021	600.431	4.2	2.7	259021.554	13346026.06
1920	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	0	0	0	0	0	GOOD			5.7	8/27/2021	585.31	5.3	3.5	259029.222	13346020.05
1921	BLKL	Black Locust	Robinia pseudoacacia	1	16.5	0	0	0	0	0	GOOD			2.9	8/27/2021	585.796	1.8	1.4	259027.545	13346018.81
1922	BLKL	Black Locust	Robinia pseudoacacia	1	14.4	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	6.2	8/27/2021	595.171	2.2	1.6	259021.693	13345987.7
1923	BLKL	Black Locust	Robinia pseudoacacia	1	20.2	0	0	0	0	0	GOOD			3.5	8/27/2021	587.914	5	3.5	259014.193	13345976.48
1924	AELM	American elm	Ulmus americana	1	10.8	0	0	0	0	0	GOOD			6.1	8/27/2021	597.905	3.4	2.1	259035.09	13345970.65
1925	BLKL	Black Locust	Robinia pseudoacacia	1	12.6	0	0	0	0	0	GOOD			3.9	8/27/2021	584.967	4.1	2.6	259052.519	13345957.12
1926	BLKL	Black Locust	Robinia pseudoacacia	1	12.6	0	0	0	0	0	GOOD			2.8	8/27/2021	591.511	2.5	1.7	259040.109	13345970.06
1927	MUL	White Mulberry	Morus alba	1	11.6	11.2	0	0	0	0	GOOD			3.1	8/27/2021	585.543	2	1.3	259041.988	13345991.46
1928	BLKL	Black Locust	Robinia pseudoacacia	1	19.8	0	0	0	0	0	GOOD			2.9	8/27/2021	572.242	2.3	1.5	259035.208	13346030.82
1929	BLKL	Black Locust	Robinia pseudoacacia	1	16.3	0	0	0	0	0	GOOD			3.2	8/27/2021	582.238	1.9	1.3	259034.507	13346036.2
1930	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.3	8/27/2021	588.853	1.7	1.1	259022.941	13346038.02
1931	BOXE	Box-Elder	Acer negundo	1	8	0	0	0	0	0	GOOD			2.9	8/27/2021	598.48	2.3	1.4	259023.468	13346036.14
1932	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			4.4	8/27/2021	588.002	3.2	2.3	259028.641	13346049.26
1933	BLKL	Black Locust	Robinia pseudoacacia	1	13.3	0	0	0	0	0	GOOD			3.7	8/27/2021	593.514	4.3	2.6	259016.931	13346054.9
1934	BLKL	Black Locust	Robinia pseudoacacia	1	11.9	0	0	0	0	0	GOOD			2.6	8/27/2021	582.215	1.9	1.2	259025.859	13346039.1
1935	BLKL	Black Locust	Robinia pseudoacacia	1	12.3	0	0	0	0	0	GOOD			5.4	8/27/2021	604.316	3.2	2.2	259028.63	13346063.97
1936	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			2.5	8/27/2021	568.973	5.5	3.6	259023.482	13346052.27
1937	BLKL	Black Locust	Robinia pseudoacacia	1	10.3	0	0	0	0	0	GOOD			3	8/27/2021	584.716	3.4	2.4	259037.333	13346082.94
1938	AELM	American elm	Ulmus americana	1	10.4	0	0	0	0	0	GOOD			3.4	8/27/2021	576.633	3	1.7	259009.163	13346079.15
1939	BLKL	Black Locust	Robinia pseudoacacia	1	15.4	0	0	0	0	0	GOOD			4.1	8/27/2021	562.968	4.7	3.3	259010.068	13346091.65
1940	BLKL	Black Locust	Robinia pseudoacacia	1	11.9	0	0	0	0	0	GOOD			3	8/27/2021	577.509	1.8	1.2	259021.315	13346098.36
1941	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			4	8/27/2021	578.274	2.9	1.8	259026.083	13346093.88
1942	BLKL	Black Locust	Robinia pseudoacacia	1	12.7	0	0	0	0	0	GOOD			3.3	8/27/2021	580.131	3.9	2.5	259036.083	13346098.7
1943	BLKC	Black Cherry	Prunus serotina	1	9.5	0	0	0	0	0	GOOD			3.4	8/27/2021	582.744	9	5.7	259036.561	13346094.46
1944	BLKL	Black Locust	Robinia pseudoacacia	1	18.9	0	0	0	0	0	GOOD			2.9	8/27/2021	573.458	2	1.5	259036.545	13346090.1

TREE REMOVAL LEGEND

~~00~~ INDICATES EXISTING TREE TO BE REMOVED

00 INDICATES EXISTING TREE TO REMAIN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
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SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Tree List

811
Know what's **below**
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: M. Carnaghi

DESIGNED BY:

APPROVED BY: K. Navaroli

DATE: September 24, 2021

SCALE: N.T.S.

NFE JOB NO. M278-01

SHEET NO. SP 1.27

1945	BLKL	Black Locust	Robinia pseudoacacia	1	11.7	0	0	0	0	0	GOOD			3.7	8/27/2021	601.289	3.1	1.8	259042.905	13346087.81
1946	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.5	8/27/2021	576.641	2.3	1.4	259035.223	13346073.17
1947	BLKL	Black Locust	Robinia pseudoacacia	1	9.5	0	0	0	0	0	GOOD			2.6	8/27/2021	576.579	3.3	2.2	259059.88	13346079.73
1948	COT	Eastern Cottonwood	Populus deltoides	1	16.4	0	0	0	0	0	GOOD			3.9	8/27/2021	601.218	2.7	1.6	259068.039	13346065.13
1949	BOXE	Box-Elder	Acer negundo	1	9.4	0	0	0	0	0	GOOD			4.7	8/27/2021	602.377	11.3	8.4	259084.995	13346088.26
1950	BLKL	Black Locust	Robinia pseudoacacia	1	9.5	0	0	0	0	0	GOOD			4.3	8/27/2021	596.14	13	7.2	259053.475	13346060.7
1951	MUL	White Mulberry	Morus alba	1	10.9	0	0	0	0	0	POOR		Structure	3.9	8/27/2021	593.07	2.6	1.6	259059.556	13346049.36
1952	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			3.9	8/27/2021	600.258	2.6	2	259062.979	13346041.82
1953	BLKL	Black Locust	Robinia pseudoacacia	1	8.3	0	0	0	0	0	GOOD			3	8/27/2021	581.058	2.6	1.5	259091.225	13346039.47
1954	BLKW	Black Walnut	Juglans nigra	1	16.2	0	0	0	0	0	GOOD			3.3	8/27/2021	592.256	2.5	1.4	259108.924	13346042.7
1955	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			4	8/27/2021	575.703	2.2	1.4	259114.769	13346057.65
1956	HACB	Hackberry	Celtis occidentalis	1	8.3	0	0	0	0	0	GOOD			3	8/27/2021	575.108	4.6	2.7	259103.137	13346070.42
1957	HACB	Hackberry	Celtis occidentalis	1	10.2	0	0	0	0	0	GOOD			3.4	8/27/2021	593.163	2.4	1.5	259105.71	13346081.33
1958	BLKL	Black Locust	Robinia pseudoacacia	1	8.5	0	0	0	0	0	POOR		Structure	6.2	8/27/2021	584.768	5.8	4	259056.994	13346108.25
1959	AELM	American elm	Ulmus americana	1	11.1	0	0	0	0	0	GOOD			3.3	8/27/2021	588.412	4	2.3	259062.819	13346104.31
1960	BLKL	Black Locust	Robinia pseudoacacia	1	17.2	0	0	0	0	0	GOOD			3.8	8/27/2021	599.78	3	1.8	259062	13346110.43
1961	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	8.2	0	0	0	0	GOOD			2.8	8/27/2021	588.696	2.4	2.1	259044.898	13346122.11
1962	BLKL	Black Locust	Robinia pseudoacacia	1	9.4	0	0	0	0	0	GOOD			2.7	8/27/2021	588.532	3.7	2.5	259038.131	13346116.53
1963	BLKL	Black Locust	Robinia pseudoacacia	1	10.3	0	0	0	0	0	GOOD			4	8/27/2021	589.32	2.1	1.1	259032.912	13346120.83
1964	BLKC	Black Cherry	Prunus serotina	1	9.4	0	0	0	0	0	GOOD			2.8	8/27/2021	600.476	4.7	2.8	259022.525	13346106.19
1965	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	0	0	0	0	0	GOOD			2.8	8/27/2021	599.147	2.3	1.3	259018.777	13346129.34
1966	BLKL	Black Locust	Robinia pseudoacacia	1	11.3	0	0	0	0	0	GOOD			5.4	8/27/2021	584.643	2	1.5	259019.778	13346135.33
1967	BLKW	Black Walnut	Juglans nigra	1	10.3	0	0	0	0	0	GOOD			3	8/27/2021	574.785	2.9	1.7	259079.51	13346146.22
1968	BLKL	Black Locust	Robinia pseudoacacia	1	17.3	0	0	0	0	0	GOOD			3	8/27/2021	583.474	2.2	1.2	259076.949	13346147.12
1969	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.9	8/27/2021	590.109	3.3	2	259066.95	13346151.35
1970	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			4.9	8/27/2021	588.609	2	1.4	259042.704	13346154.65
1971	BLKL	Black Locust	Robinia pseudoacacia	1	19.3	0	0	0	0	0	GOOD			28.3	8/27/2021	584.962	4.5	3.5	259059.497	13346179.67
1972	HACB	Hackberry	Celtis occidentalis	1	9.2	0	0	0	0	0	GOOD			141.3	8/27/2021	580.144	3.6	2.7	259055.212	13346172.57
1973	AELM	American elm	Ulmus americana	1	9.9	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.6	8/27/2021	578.922	1.8	1.4	259035.236	13346180.42
1974	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			3.6	8/27/2021	578.852	3.5	2.2	259027.682	13346186.95
1975	BLKL	Black Locust	Robinia pseudoacacia	1	22.8	0	0	0	0	0	GOOD			3.2	8/27/2021	551.16	5.1	3.3	259040.7	13346194.84
1976	BLKW	Black Walnut	Juglans nigra	1	18	0	0	0	0	0	GOOD			3.4	8/27/2021	569.044	2	1.3	259049.967	13346201.18
1977	BLKL	Black Locust	Robinia pseudoacacia	1	11	0	0	0	0	0	GOOD			3.3	8/27/2021	586.463	3.9	2.8	259058.027	13346206.7
1978	BLKL	Black Locust	Robinia pseudoacacia	1	21.3	0	0	0	0	0	GOOD			3.7	8/27/2021	599.479	2.6	2.2	259079.148	13346189.67
1979	BLKL	Black Locust	Robinia pseudoacacia	1	10.6	0	0	0	0	0	GOOD			3	8/27/2021	568.07	4	2.6	259082.791	13346175.08
1980	HACB	Hackberry	Celtis occidentalis	1	8	0	0	0	0	0	GOOD			3	8/27/2021	583.667	5.9	4.3	259097.02	13346186.47
1981	BLKL	Black Locust	Robinia pseudoacacia	1	9.6	8	0	0	0	0	POOR		Structure	3	8/27/2021	586.785	2.4	1.7	259113.043	13346182.39
1982	BLKL	Black Locust	Robinia pseudoacacia	1	14.8	0	0	0	0	0	GOOD			3.5	8/27/2021	580.361	1.9	1.3	259111.826	13346177.71
1983	BLKL	Black Locust	Robinia pseudoacacia	1	10.9	0	0	0	0	0	POOR		Structure	2.8	8/27/2021	577.336	1.8	1.2	259140.907	13346197.14
1984	BLKL	Black Locust	Robinia pseudoacacia	1	10.4	0	0	0	0	0	POOR		Structure	2.7	8/27/2021	573.407	2.2	1.6	259139.508	13346207.25
1985	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			3.4	8/27/2021	573.595	2	1.3	259139	13346216.89
1986	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.6	8/27/2021	569.873	6.7	4.1	259094.989	13346242.05
1987	BLKW	Black Walnut	Juglans nigra	1	26.3	0	0	0	0	0	GOOD			4.1	8/27/2021	581.55	4.7	4.6	259098.35	13346242.54
1988	HACB	Hackberry	Celtis occidentalis	1	8	0	0	0	0	0	GOOD			3.1	8/27/2021	593.609	2.8	2	259078.006	13346218.47
1989	HACB	Hackberry	Celtis occidentalis	1	10.6	0	0	0	0	0	GOOD			2.9	8/27/2021	566.735	2.2	1.5	259065.037	13346246.08
1990	SHAGH	Shagbark Hickory	Carya ovata	1	23.2	0	0	0	0	0	GOOD			2.7	8/27/2021	569.479	2.8	1.9	259085.333	13346242.9
1991	HACB	Hackberry	Celtis occidentalis	1	8.5	0	0	0	0	0	GOOD			2.4	8/27/2021	564.182	2.2	1.8	259102.527	13346256.64
1992	BLKW	Black Walnut	Juglans nigra	1	16.1	0	0	0	0	0	GOOD			8	8/27/2021	561.888	4.4	3.1	259132.401	13346263.88
1993	BLKW	Black Walnut	Juglans nigra	1	15.1	0	0	0	0	0	GOOD			3	8/27/2021	567.834	2.8	2	259141.299	13346251.88
1994	BLKW	Black Walnut	Juglans nigra	1	19.3	0	0	0	0	0	GOOD			3.8	8/27/2021	565.988	7	6.5	259141.799	13346252.06
1995	BLKW	Black Walnut	Juglans nigra	1	14.5	0	0	0	0	0	GOOD			3.2	8/27/2021	574.021	4.5	4.1	259134.096	13346245.16
1996	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.8	8/27/2021	576.059	3.2	2.7	259134.212	13346234.65
1997	BLKL	Black Locust	Robinia pseudoacacia	1	14	0	0	0	0	0	FAIR		Structure	9.3	8/27/2021	566.054	3.2	2.8	259153.481	13346237.96
1998	AELM	American elm	Ulmus americana	1	11.7	0	0	0	0	0	GOOD			3.9	8/27/2021	563.858	2.7	2.8	259153.058	13346246.11
1999	BLKW	Black Walnut	Juglans nigra	1	16.9	0	0	0	0	0	GOOD			10.4	8/27/2021	567.254	2.7	2.2	259152.66	13346251.44
2000	BLKW	Black Walnut	Juglans nigra	1	18.5	0	0	0	0	0	GOOD			3.9	8/27/2021	567.916	3.3	4.1	259179.294	13346238.24
2001	AELM	American elm	Ulmus americana	1	8.4	0	0	0	0	0	GOOD			141.3	9/2/2021	582.424	5.9	5.3	259170.732	13346223.15
2002	NORWM	Norway Maple	Acer platanoides	1	11.2	0	0	0	0	0	GOOD			5.7	9/2/2021	588.666	4.4	3.8	259154.245	13346271.17
2003	BLKL	Black Locust	Robinia pseudoacacia	1	16.3	0	0	0	0	0	GOOD			5.7	9/2/2021	593.454	5.4	4.9	259185.451	13346239.21
2004	BLKW	Black Walnut	Juglans nigra	1	14.3	0	0	0	0	0	GOOD			3.1	9/2/2021	599.361	2.7	2	259184.108	13346235.95
2005	BLKW	Black Walnut	Juglans nigra	1	12	0	0	0	0	0	GOOD			4.2	9/2/2021	589.648	5.5	4.3	259192.718	13346223.13
2006	BLKW	Black Walnut	Juglans nigra	1	16.7	0	0	0	0	0	GOOD			6.4	9/2/2021	584.981	6	5.7	259200.18	13346214.46
2007	BLKW	Black Walnut	Juglans nigra	1	16.1	0	0	0	0	0	GOOD			3.3	9/2/2021	593.393	2.6	2.5	259164.539	13346206.7
2008	BLKW	Black Walnut	Juglans nigra	1	20.4	0	0	0	0	0	GOOD			3.2	9/2/2021	556.518	3.6	3	259192.186	13346183.83
2009	BLKW	Black Walnut	Juglans nigra	1	14.3	0	0	0	0	0	GOOD			3.1	9/2/2021	539.684	8.8	6.3	259184.09	13346167.43
2010	REMX	Red Maple	Acer x freemanii	1	10.1	0	0	0	0	0	GOOD			4	9/2/2021	571.175	3.8	2.9	259189.251	13346169.89
2011	HACB	Hackberry	Celtis occidentalis	1	16.3	0	0	0	0	0	GOOD			4.6	9/2/2021	561.093	6.3	5	259187.62	13346166.7
2012	BLKW	Black Walnut	Juglans nigra	1	9.9	0	0	0	0	0	GOOD			3.5	9/2/2021	557.773	3.9	3.7	259186.778	13346167.2
2013	BLKW	Black Walnut	Juglans nigra	1	16.2	0	0	0	0	0	GOOD			5	9/2/2021	526.158	3.2	2.7	259166.575	13346156.6
2014	SIBE	Siberian elm	Ulmus pumila	1	8.2	0	0	0	0	0	FAIR		Structure	4.2	9/2/2021	579.297	3.3	2.9	259148.98	13346158.83
2015	BLKW	Black Walnut	Juglans nigra	1	18.1	0	0	0	0	0	GOOD			3.4	9/2/2021	592.803	3.2	3.1	259132.999	13346149.34
2016	BLKW	Black Walnut	Juglans nigra	1	32.5	0	0	0	0	0	GOOD			3.1	9/2/2021	593.699	3.4	2.4	259112.663	13346147.9
2017	AELM	American elm	Ulmus americana	1	9.8	0	0	0	0	0	GOOD			6.3	9/2/2021	576.348	3.8	3.2	259105.205	13346155.12
2018	BLKW	Black Walnut	Juglans nigra	1	20.5	0	0	0	0	0	GOOD			3	9/2/2021	569.409	2.3	1.8	259092.095	13346144.94
2019	AELM	American elm	Ulmus americana	1	8.8	0	0	0	0	0	GOOD			3.2	9/2/2021	590.28	7.9	7.1	259100.898	13346103.11
2020	BLKW	Black Walnut	Juglans nigra	1	12.2	0	0	0	0	0	GOOD			16.1	9/2/2021	569.711	3.6	2.6	259119.842	13346107.37
2021	BLKL	Black Locust	Robinia pseudoacacia	1	8.6	0	0	0	0	0	GOOD			2.8	9/2/2021	577.662	3.8	2.8	259126.133	13346088.91
2022	BLKW	Black Walnut	Juglans nigra	1	15.4	0	0	0	0	0	GOOD			5.8	9/2/2021	572.222	2.2	1.6	259158.546	13346090.61
2023	AELM	American elm	Ulmus americana	1	9.3	0	0	0	0	0	GOOD			3.2	9/2/2021	578.354	2.4	2.2	259132.177	13346063.98
2024	BLKW	Black Walnut	Juglans nigra	1	30.4	0	0	0	0	0	GOOD			5.3	9/2/2021	565.265	7.2	5.1	259134.997	13346048.04
2025	BLKL	Black Locust	Robinia pseudoacacia	1	9.4	0	0	0	0	0	GOOD			3.5	9/2/2021	593.802	5.2	3.4	259125.982	13346002.44
2026	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	GOOD			3.1	9/2/2021	593.442	5.1	3.3	259084.312	13345976.27
2027	BLKL	Black Locust	Robinia pseudoacacia	1	11.1	0	0	0	0	0	GOOD			5.9	9/2/2021	577.919	2.4	1.6	259080.583	13345997.72
2028	BLKL	Black Locust	Robinia pseudoacacia	1	9.1	0	0	0	0	0	GOOD			5	9/2/2021	591.766	6.5	4.5	259094.557	13346011.78
2029	BLKL	Black Locust	Robinia pseudoacacia	1	13.1	0	0	0	0	0	GOOD			3.1	9/2/2021	563.312	3.1	1.9	259093.909	13346009.53
2030	BLKC	Black Cherry	Prunus serotina	1	11.2	0	0	0	0	0	GOOD			3.6	9/2/2021	577.114	4.3	2.6	259143.886	13345936.16
2031	BLKW	Black Walnut	Juglans nigra	1	8.4	0	0	0	0	0	GOOD			3.6	9/2/2021	587.274	7.9	5	259088.026	13345903.94
2032	COT	Eastern Cottonwood	Populus deltoides	1	9.8	0	0	0	0	0	GOOD			3.4	9/2/2021	582.171	2.8	1.7	259080.453	13345920.19
2033	BLKW	Black Walnut	Juglans nigra	1	8.4	0	0	0	0	0	GOOD			4	9/2/2021	572.484	4.3	2.5	259080.841	13345946.19
2034	AELM	American elm	Ulmus americana	1	11.6	0	0	0	0	0	GOOD			3.8	9/2/2021	583.295	2.2	1.4	259110.074	13345941.66
2035	AELM	American elm	Ulmus americana	1	14.5	12	11.7	0	0	0	GOOD			5	9/2/2021	584.955	6	4.1	259031.301	13345941.81
2036	BLKW	Black Walnut	Juglans nigra	1	8.2	0	0	0	0	0	GOOD			2.5	9/2/2021	590.194	2.4	1.4	259020.491	13345928.16
2037	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			2.9	9/2/2021	579.401	6.4	4.8	259042.105	13345912.24
2038	BLKC	Black Cherry	Prunus serotina	1	11.2	0	0	0	0	0	GOOD			5	9/2/2021	589.843	2.7	1.5	259024	13345908.64
2039	REMX	Red Maple	Acer x freemanii	1	9.4	0	0	0	0	0	GOOD			3.4	9/2/2021	595.149	4.5	2.5	259050.557	13345909.74
2040	COT	Eastern Cottonwood	Populus deltoides	1	19.4	0	0	0	0	0	GOOD			3	9/2/2021	589.767	2.2	1.4	259042.273	13345884.74
2041	COT	Eastern Cottonwood	Populus deltoides	1	13.8	0	0	0	0	0	GOOD			3	9/2/2021	571.785	7.9	4.7	259045.249	13345889.04
2042	MUL	White Mulberry	Morus alba	1	8.4	0	0	0	0	0	GOOD			2.9	9/2/2021	590.072	6	3.3	259015.786	13345884.61
2043	WASH	White Ash	Fraxinus americana	1	8.2	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	9/2/2021	592.769	2.1	1.4	259033.764	13345853.27
2044	COT	Eastern Cottonwood	Populus deltoides	1	18.3	17	15	0	0	0	GOOD			2.9	9/2/2021	591.181	3.2	1.9	258979.671	13345797.02
2045	COT	Eastern Cottonwood	Populus deltoides	1	15.8	15.2	0	0	0	0	GOOD			3.2	9/2/2021	593.321	2.4	1.5	258983.663	13345785.53
2046	COT	Eastern Cottonwood	Populus deltoides	1	19.1	0	0	0	0	0	GOOD			2.9	9/2/2021	585.976	3.7	2.2	259027.679	13345786.03
2047	AELM	American elm	Ulmus americana	1	8.3	0	0	0	0	0	FAIR		Structure	2.8	9/2/2021	586.638	1.9	1.3	259082.804	13345829.03
2048	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			3.1	9/2/2021	585.512	1.9	1.2	259073.052	13345837.08
2049	SHAGH	Shagbark Hickory	Carya ovata	1	8.1	0	0	0	0	0	GOOD			2.9	9/2/2021	585.081	2.4	1.5	259086.319	13345834.16
2050	REMX	Red Maple	Acer x freemanii	1	9.3	0	0	0	0	0	GOOD			3	9/2/2021	581.683	1.9	1.3	259088.706	13345798.09
2051	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			3.4	9/2/2021	587.401	3.5	2.7	259072.519	13345754.67
2052	BLKL	Black Locust	Robinia pseudoacacia	1	11.2	0	0	0	0	0	GOOD			3	9/2/2021	598.592	2	1.5	259067.702	13345755.26
2053	BLKL	Black Locust	Robinia pseudoacacia	1	9.4	0	0	0	0	0	GOOD			2.9	9/2/2021	593.657	4.5	3.2	259076.417	13345753.15
2054	BLKL	Black Locust	Robinia pseudoacacia	1	8.1	0	0	0	0	0	GOOD			3	9/2/2021	589.505	2.5	1.6	259075.016	13345754.58
2055	BLKL	Black Locust	Robinia pseudoacacia	1	11.2	8.6	0	0	0	0	GOOD			2.9	9/2/2021	576.128	1.8	1.2	259056.247	13345736.17
2056	BLKL	Black Locust	Robinia pseudoacacia	1	9	0	0	0	0	0	GOOD			2.7	9/2/2021	584.361	2	1.4	259048.297	13345740.02
2057	BLKL	Black Locust	Robinia pseudoacacia	1	8.9	0	0	0	0	0	GOOD			2.8	9/2/2021	584.07	2.1	1.7	259059.621	13345722.09
2058	COT	Eastern Cottonwood	Populus deltoides	1	14.7	0	0	0	0	0	GOOD			2.9	9/2/2021	582.122	2.8	2	259052.266	13345722.21
2059	COT	Eastern Cottonwood	Populus deltoides	1	18.4	0	0	0	0	0	GOOD			3	9/2/2021	591.859	4	3	259061.191	13345713.2
2060	AELM	American elm	Ulmus americana	1	11	0	0	0	0	0	GOOD			2.9	9/2/2021	586.982	2.2	1.8	259085.225	13345743.74
2061	BLKL	Black Locust	Robinia pseudoacacia	1	8.6	0	0	0	0	0	GOOD			2.9	9/2/2021	587.46	2.6	2.1	259090.747	13345773.58
2062	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			3.8	9/2/2021	583.518	2.8	2.4	259107.584	13345783.22
2063	MUL	White Mulberry	Morus alba	1	8.5	0	0	0	0	0	GOOD			2.7	9/2/2021	583.402	2	1.5	259097.403	13345788.14
2064	REMX	Red Maple	Acer x freemanii	1	8.6	0	0	0	0	0	GOOD			2.8	9/2/2021	578.007	2.9	2.2	259106.08	13345784.73
2065	AELM	American elm	Ulmus americana	1	10.4	0	0	0	0	0	GOOD			4.1	9/2/2021	579.465	2.7	2.1	259130.789	13345827.19
2066	AELM	American elm	Ulmus americana	1	8.8	0	0	0	0	0	GOOD			3	9/2/2021	584.868	1.9	1.6	259136.291	13345814.9
2067	WWIL	White Willow	Salix alba	1	13.8	0	0	0	0	0	GOOD			3.6	9/2/2021	577.576	2.4	1.7	259113.817	13345868.9
2068	AELM	American elm	Ulmus americana	1	12.3	0	0	0	0	0	GOOD			5.3	9/2/2021	577.027	1.6	1.6	259123.541	13345876.26
2069	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			4.6	9/2/2021	583.72	2.7	2.6	259138.583	13345860.77
2070	COT	Eastern Cottonwood	Populus deltoides	1	15.4	0	0	0	0	0	GOOD			5.4	9/2/2021	607.312	8.7	6.6	259151.686	13345773.46
2071	AELM	American elm	Ulmus americana	1	9.2	0	0	0	0	0	GOOD			3.1	9/2/2021	593.551	3.4	3.3	259150.862	13345775.64
2072	MUL	White Mulberry	Morus alba	1	9.7	0	0	0	0	0	GOOD			141.3	9/2/2021	586.522	5	4.3	259149.868	13345784.32
2073	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			2.8	9/2/2021	582.151	2.1	1.7	259141.536	13345776.22
2074	COT	Eastern Cottonwood	Populus deltoides	1	20.4	0	0	0	0	0	GOOD			4.4	9/2/2021	575.234	1.9	1.9	259144.914	13345745.85
2075	COT	Eastern Cottonwood	Populus deltoides	1	8.7	0	0	0	0	0	GOOD			2.5	9/2/2021	588.101	3.3	2.7	259189.479	13345769.77
2076	COT	Eastern Cottonwood	Populus deltoides	1	16.8	0	0	0	0	0	GOOD			2.7	9/2/2021	586.104	2	1.7	259214.787	13345740.3
2077	BLKC	Black Cherry	Prunus serotina	1	10.6	0	0	0	0	0	GOOD			3	9/2/2021	590.406	4.7	5.1	259242.618	13345704.8
2078	MUL	White Mulberry	Morus alba	1	9.1	0	0	0	0	0	GOOD			7.8	9/2/2021	591.634	4.9	3.7	259211.961	13345674.79
2079	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			3	9/2/2021	574.025	1.8	1.5	259198.167	13345682.9
2080	COT	Eastern Cottonwood	Populus deltoides	1	19.9	0	0	0	0	0	GOOD			2.5	9/2/2021	587.021	1.5	1.4	259169.821	13345695.01
2081	COT	Eastern Cottonwood	Populus deltoides	1	18.6	0	0	0	0	0	GOOD			7.5	9/2/2021	584.213	2.7	2.1	259166.161	13345719.74
2082	MUL	White Mulberry	Morus alba	1	9	0	0	0	0	0	GOOD			9.3	9/2/2021	567.853	4.6	4.4	259074.82	13345737.5
2083	MUL	White Mulberry	Morus alba	1	8	0	0	0	0	0	GOOD			5.6	9/2/2021	601.738	3.6	3.2	259093.501	13345729.97
2084	MUL	White Mulberry	Morus alba	1	12.2	8.8	0	0	0	0	FAIR		Structure	2.5	9/2/2021	588.903	1.6	1.4	259002.61	13345741.8
~~2085~~	COT	Eastern Cottonwood	Populus deltoides	1	18.3	16.1	0	0	0	0	GOOD			12.9	9/2/2021	601.477	3	2.8	258966.328	13345724.86
~~2086~~	COT	Eastern Cottonwood	Populus deltoides	1	18.3	17.7	0	0	0	0	GOOD			4.5	9/2/2021	592.877	6.2	4.9	258955.236	13345791.18
~~2087~~	COT	Eastern Cottonwood	Populus deltoides	1	21	18.3	18	0	0	0	GOOD			4.5	9/2/2021	588.132	2	2.4	258920.789	13345818.89
~~2088~~	COT	Eastern Cottonwood	Populus deltoides	1	11	0	0	0	0	0	GOOD			13	9/2/2021	609.524	4.4	5.2	258887.566	13345833.14
~~2089~~	COT	Eastern Cottonwood	Populus deltoides	1	20.9	0	0	0	0	0	GOOD			4.1	9/2/2021	589.358	2.7	2.6	258910.604	13345829.85
~~2090~~	COT	Eastern Cottonwood	Populus deltoides	1	9	0	0	0	0	0	GOOD			4	9/2/2021	582.594	2	1.6	258877.135	13345809.22
~~2091~~	COT	Eastern Cottonwood	Populus deltoides	1	9.3	0	0	0	0	0	GOOD			3.5	9/2/2021	614.167	2.7	2.4	258887.01	13345797.32
~~2092~~	COT	Eastern Cottonwood	Populus deltoides	1	16.7	0	0	0	0	0	GOOD			8.9	9/2/2021	592.103	6	5.4	258895.229	13345790.96
~~2093~~	COT	Eastern Cottonwood	Populus deltoides	1	8.3	0	0	0	0	0	GOOD			3.9	9/2/2021	590.121	2.1	1.7	258884.686	13345779.75
~~2094~~	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			10.4	9/2/2021	595.542	2.2	1.8	258885.917	13345830.53
~~2095~~	COT	Eastern Cottonwood	Populus deltoides	1	22.9	0	0	0	0	0	GOOD			3.6	9/2/2021	604.665	7.1	5.9	258842.444	13345855.33
~~2096~~	COT	Eastern Cottonwood	Populus deltoides	1	15.4	0	0	0	0	0	FAIR		Structure	3.6	9/2/2021	593.144	2	1.7	258865.21	13345870.69
~~2097~~	COT	Eastern Cottonwood	Populus deltoides	1	14.7	0	0	0	0	0	GOOD			3.6	9/2/2021	592.663	2	1.7	258874.044	13345875.68
~~2098~~	BLKW	Black Walnut	Juglans nigra	1	9.5	0	0	0	0	0	GOOD			2.8	9/2/2021	587.897	1.9	1.7	258881.546	13345867.64
~~2099~~	COT	Eastern Cottonwood	Populus deltoides	1	22.4	0	0	0	0	0	GOOD			17.4	9/2/2021	595.089	2.3	2.1	258869.772	13345909.36
~~2100~~	COT	Eastern Cottonwood	Populus deltoides	1	17.8	0	0	0	0	0	GOOD			8.2	9/2/2021	568.895	4	3	258899.616	13345896.81
~~2101~~	COT	Eastern Cottonwood	Populus deltoides	1	23.4	0	0	0	0	0	GOOD			3.8	9/2/2021	586.71	2.2	1.7	258897.959	13345906.37
~~2102~~	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			2.6	9/2/2021	585.377	3	1.8	258897.745	13345906.83
~~2103~~	BLKW	Black Walnut	Juglans nigra	1	13.5	0	0	0	0	0	GOOD			3	9/2/2021	604.246	2.5	1.5	258914.45	13345912.04
~~2104~~	BLKW	Black Walnut	Juglans nigra	1	10.5	0	0	0	0	0	GOOD			2.8	9/2/2021	578.979	3.6	3.6	258954.982	13345924.59
2105	BLKL	Black Locust	Robinia pseudoacacia	1	8.5	0	0	0	0	0	GOOD			3	9/2/2021	588.009	3.9	2.1	258978.076	13345930.66
~~2106~~	BLKL	Black Locust	Robinia pseudoacacia	1	11.6	0	0	0	0	0	GOOD			2.9	9/2/2021	613.559	3.2	2.1	258961.929	13345924.21

2107	BLKL	Black Locust	Robinia pseudoacacia	1	10.8	0	0	0	0	0	GOOD			5.3	9/2/2021	599.769	4.2	2.5	258992.98	13345909.09
2108	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			3.9	9/2/2021	588.382	4.8	2.8	258988.152	13345887.77
~~2109~~	WASH	White Ash	Fraxinus americana	1	9.9	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.2	9/2/2021	586.534	2.2	1.4	258970.438	13345884.32
~~2110~~	BLKW	Black Walnut	Juglans nigra	1	12.4	0	0	0	0	0	GOOD			3	9/2/2021	582.141	2.9	1.6	258963.799	13345884.4
2111	COT	Eastern Cottonwood	Populus deltoides	1	15.4	0	0	0	0	0	GOOD			4.1	9/2/2021	592.619	3.1	1.9	259033.336	13345713.88
2112	COT	Eastern Cottonwood	Populus deltoides	1	9.2	0	0	0	0	0	GOOD			3.1	9/2/2021	589.207	2.6	1.6	259030.805	13345705.6
2113	AELM	American elm	Ulmus americana	1	11.6	0	0	0	0	0	GOOD			2.7	9/2/2021	589.475	2.1	1.2	259029.757	13345675.72
2114	COT	Eastern Cottonwood	Populus deltoides	1	13.9	0	0	0	0	0	GOOD			2.7	9/2/2021	586.907	2	1.2	259040.88	13345650.04
2115	COT	Eastern Cottonwood	Populus deltoides	1	20.2	0	0	0	0	0	GOOD			2.8	9/2/2021	594.945	2.9	1.7	259039.855	13345631.62
2116	BLKC	Black Cherry	Prunus serotina	1	8.3	0	0	0	0	0	GOOD			3.6	9/2/2021	580.807	2.2	1.5	259023.087	13345645.43
2117	COT	Eastern Cottonwood	Populus deltoides	1	18.8	0	0	0	0	0	GOOD			2.9	9/2/2021	588.659	2.2	1.3	259066.904	13345656.7
2118	COT	Eastern Cottonwood	Populus deltoides	1	17.2	0	0	0	0	0	GOOD			2.7	9/2/2021	589.467	2	1.5	259046.936	13345631.03
2119	COT	Eastern Cottonwood	Populus deltoides	1	16.8	0	0	0	0	0	GOOD			2.8	9/2/2021	589.552	6	4.8	259044.149	13345603.72
2120	COT	Eastern Cottonwood	Populus deltoides	1	14.9	0	0	0	0	0	GOOD			3	9/2/2021	597.35	1.8	1.4	259023.035	13345569.21
2121	BLKW	Black Walnut	Juglans nigra	1	8.9	0	0	0	0	0	FAIR		Structure	3	9/2/2021	572.576	2.9	1.9	259056.795	13345539.83
2122	NORWM	Norway Maple	Acer platanoides	1	14.8	0	0	0	0	0	GOOD			6.4	9/2/2021	535.826	3.8	2.4	259041.236	13345489.62
2123	COT	Eastern Cottonwood	Populus deltoides	1	13.8	0	0	0	0	0	GOOD			2.4	9/2/2021	580.761	2.5	1.6	259023.682	13345512.57
2124	COT	Eastern Cottonwood	Populus deltoides	1	11.4	0	0	0	0	0	GOOD			3.8	9/2/2021	586.819	3.1	2.6	259039.047	13345470.79
2125	COT	Eastern Cottonwood	Populus deltoides	1	16.6	0	0	0	0	0	GOOD			3.3	9/2/2021	589.826	5.5	4.6	259102.789	13345488.54
2126	COT	Eastern Cottonwood	Populus deltoides	1	18.3	0	0	0	0	0	GOOD			3.5	9/2/2021	588.429	3.9	3.3	259135.79	13345484.22
2127	SILM	Silver Maple	Acer saccharinum	1	30.3	0	0	0	0	0	GOOD			33.1	9/2/2021	581.939	9.1	10.3	259198.83	13345507.3
2128	COT	Eastern Cottonwood	Populus deltoides	1	34	0	0	0	0	0	GOOD			3.8	9/2/2021	597.586	4.6	4	259182.449	13345514.16
2129	GASH	Green Ash	Fraxinus pennsylvanica	1	8.6	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.7	9/2/2021	581.822	1.8	1.5	259213.701	13345566.7
2130	COT	Eastern Cottonwood	Populus deltoides	1	15.9	13.3	0	0	0	0	GOOD			3.6	9/2/2021	581.136	2.3	2	259184.649	13345587.21
2131	SILM	Silver Maple	Acer saccharinum	1	8	0	0	0	0	0	GOOD			5.8	9/2/2021	587.043	1.9	2.7	259112.367	13345545.32
2132	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			141.3	9/2/2021	577.504	9.7	11	259184.574	13345602.84
2133	COT	Eastern Cottonwood	Populus deltoides	1	25.7	0	0	0	0	0	GOOD			7.9	9/2/2021	617.7	12.9	23.8	259182.352	13345586.26
2134	BLKL	Black Locust	Robinia pseudoacacia	1	8.5	0	0	0	0	0	GOOD			5.1	9/2/2021	590.24	1.8	1.7	259246.892	13345583.29
2135	COT	Eastern Cottonwood	Populus deltoides	1	10.1	0	0	0	0	0	GOOD			2.9	9/2/2021	586.998	1.9	1.9	259273.725	13345559.92
2136	COT	Eastern Cottonwood	Populus deltoides	1	9.3	0	0	0	0	0	GOOD			3.9	9/2/2021	587.51	2.3	2.2	259273.275	13345570.23
2137	BLKL	Black Locust	Robinia pseudoacacia	1	11.7	0	0	0	0	0	GOOD			2.8	9/2/2021	589.641	1.6	2.1	259287.11	13345581.94
2138	BLKW	Black Walnut	Juglans nigra	1	10.3	0	0	0	0	0	GOOD			24.5	9/2/2021	594	3.3	3.4	259282.288	13345619.47
2139	BLKL	Black Locust	Robinia pseudoacacia	1	14.9	0	0	0	0	0	GOOD			2.8	9/2/2021	590.26	3.3	2.8	259266.464	13345637.05
2140	BLKL	Black Locust	Robinia pseudoacacia	1	12	0	0	0	0	0	GOOD			2.8	9/2/2021	587.701	3	2.8	259280.386	13345629.03
2141	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			2.7	9/2/2021	594.188	7.6	7.7	259252.006	13345646.56
2142	MUL	White Mulberry	Morus alba	1	8	8	0	0	0	0	GOOD			4.4	9/2/2021	594.33	2	1.6	259226.929	13345638.07
2143	AELM	American elm	Ulmus americana	1	13.8	0	0	0	0	0	GOOD			2.9	9/2/2021	586.503	1.6	1.6	259198.578	13345642.42
2144	AELM	American elm	Ulmus americana	1	14.7	0	0	0	0	0	GOOD			2.6	9/2/2021	585.693	2.4	2.1	259197.832	13345657.53
2145	COT	Eastern Cottonwood	Populus deltoides	1	16.5	0	0	0	0	0	GOOD			3.1	9/2/2021	587.494	2.7	2.1	259273.936	13345692.93
2146	MUL	White Mulberry	Morus alba	1	9.7	0	0	0	0	0	GOOD			3	9/2/2021	587.444	1.7	1.5	259272.809	13345657.06
2147	AELM	American elm	Ulmus americana	1	9.3	0	0	0	0	0	GOOD			2.6	9/2/2021	585.987	1.6	1.4	259290.094	13345649.53
2148	BLKL	Black Locust	Robinia pseudoacacia	1	9.4	0	0	0	0	0	GOOD			2.9	9/2/2021	582.378	3.5	3.1	259306.815	13345643.91
2149	BLKL	Black Locust	Robinia pseudoacacia	1	15.3	0	0	0	0	0	GOOD			3.3	9/2/2021	589.734	4.4	3.5	259306.521	13345642.24
2150	BLKL	Black Locust	Robinia pseudoacacia	1	12.6	0	0	0	0	0	GOOD			5.1	9/2/2021	593.024	4.5	5.1	259319.914	13345652.9
2151	MUL	White Mulberry	Morus alba	1	10.3	9.3	0	0	0	0	GOOD			3.5	9/2/2021	603.543	2.7	2.5	259341.243	13345672.35
2152	BLKL	Black Locust	Robinia pseudoacacia	1	10.5	0	0	0	0	0	GOOD			25.7	9/3/2021	588.174	2.6	2.7	259303.518	13345524.87
2153	BLKL	Black Locust	Robinia pseudoacacia	1	13.3	0	0	0	0	0	GOOD			2.1	9/3/2021	570.123	2.2	1.4	259314.31	13345493.33
2154	COT	Eastern Cottonwood	Populus deltoides	1	19.1	0	0	0	0	0	GOOD			3.4	9/3/2021	596.041	3.8	2.3	259205.033	13345440.74
2155	COT	Eastern Cottonwood	Populus deltoides	1	16.9	0	0	0	0	0	GOOD			7.5	9/3/2021	585.222	3.8	2.4	259211.885	13345425.46
2156	COT	Eastern Cottonwood	Populus deltoides	1	22.7	0	0	0	0	0	GOOD			5.8	9/3/2021	599.889	3.9	2.7	259217.18	13345417.27
2157	COT	Eastern Cottonwood	Populus deltoides	1	22.8	0	0	0	0	0	GOOD			2.3	9/3/2021	604.178	2.6	1.4	259216.787	13345414.89
2158	COT	Eastern Cottonwood	Populus deltoides	1	12.8	0	0	0	0	0	GOOD			2.8	9/3/2021	583.288	3.1	3.3	259241.107	13345414.91
2159	COT	Eastern Cottonwood	Populus deltoides	1	18.3	0	0	0	0	0	GOOD			2.8	9/3/2021	606.954	4.8	2.8	259225.518	13345370.46
2160	COT	Eastern Cottonwood	Populus deltoides	1	13.1	0	0	0	0	0	GOOD			2.9	9/3/2021	592.716	2.1	1.3	259231.409	13345349.64
2161	COT	Eastern Cottonwood	Populus deltoides	1	32.7	0	0	0	0	0	GOOD			3.7	9/3/2021	590.664	2.1	1.4	259257.954	13345367.14
2162	COT	Eastern Cottonwood	Populus deltoides	1	13.9	0	0	0	0	0	GOOD			2.7	9/3/2021	581.702	1.9	1.2	259260.55	13345363.51
2163	COT	Eastern Cottonwood	Populus deltoides	1	22.3	0	0	0	0	0	GOOD			2.9	9/3/2021	583.925	3.5	2.4	259270.346	13345371.95
2164	COT	Eastern Cottonwood	Populus deltoides	1	29.3	0	0	0	0	0	GOOD			141.3	9/3/2021	584.479	1.9	1.4	259255.288	13345324.69
2165	COT	Eastern Cottonwood	Populus deltoides	1	14.6	0	0	0	0	0	GOOD			2.9	9/3/2021	581.895	1.7	1.6	259253.682	13345320.88
2166	COT	Eastern Cottonwood	Populus deltoides	1	19.2	0	0	0	0	0	GOOD			2.7	9/3/2021	587.258	1.8	1.2	259255.96	13345317.76
2167	COT	Eastern Cottonwood	Populus deltoides	1	25.8	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.7	9/3/2021	582.823	2.1	1.4	259256.767	13345318.63
2168	AELM	American elm	Ulmus americana	1	9	0	0	0	0	0	GOOD			3.1	9/3/2021	576.371	4.8	3.3	259249.905	13345306.52
2169	COT	Eastern Cottonwood	Populus deltoides	1	20.6	0	0	0	0	0	GOOD			2.8	9/3/2021	592.479	2.1	1.7	259235.263	13345308.53
2170	COT	Eastern Cottonwood	Populus deltoides	1	13.9	0	0	0	0	0	POOR			4.7	9/3/2021	588.308	2.3	1.7	259232.047	13345286.21
2171	COT	Eastern Cottonwood	Populus deltoides	1	16.9	0	0	0	0	0	GOOD			4	9/3/2021	582.015	6.2	5.3	259248.914	13345276
2172	COT	Eastern Cottonwood	Populus deltoides	1	13.4	0	0	0	0	0	GOOD			3	9/3/2021	585.073	2.6	2.1	259219.409	13345268.55
2173	COT	Eastern Cottonwood	Populus deltoides	1	13.2	0	0	0	0	0	GOOD			2.7	9/3/2021	578.748	2.9	2.3	259219.221	13345246.31
2174	AELM	American elm	Ulmus americana	1	9.5	0	0	0	0	0	GOOD			2.8	9/3/2021	575.262	1.8	1.5	259176.977	13345208.48
2175	COT	Eastern Cottonwood	Populus deltoides	1	21.4	0	0	0	0	0	GOOD			2.9	9/3/2021	576.694	4	3.1	259199.891	13345194.95
2176	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			3.2	9/3/2021	570.271	2.3	1.5	259213.322	13345193.26
2177	AELM	American elm	Ulmus americana	1	9.6	0	0	0	0	0	GOOD			141.3	9/3/2021	581.286	1.9	1.7	259180.281	13345181.86
2178	BLKL	Black Locust	Robinia pseudoacacia	1	11.9	0	0	0	0	0	GOOD			2.2	9/3/2021	585.114	1.8	1.4	259145.271	13345180.61
2179	COT	Eastern Cottonwood	Populus deltoides	1	21.3	0	0	0	0	0	GOOD			2.8	9/3/2021	580.023	2.6	2.1	259118.294	13345235.65
2180	COT	Eastern Cottonwood	Populus deltoides	1	12	0	0	0	0	0	GOOD			2.6	9/3/2021	585.229	4.3	3.3	259112.037	13345251.97
2181	COT	Eastern Cottonwood	Populus deltoides	1	8.3	0	0	0	0	0	POOR		Structure	8.4	9/3/2021	585.72	2.1	1.6	259098.585	13345263.41
2182	COT	Eastern Cottonwood	Populus deltoides	1	11	0	0	0	0	0	FAIR		Structure	4.5	9/3/2021	588.285	5.3	3.9	259116.36	13345315.37
2183	CEDAR	Red-Cedar	Juniperus virginiana	1	12.9	0	0	0	0	0	GOOD			2.8	9/3/2021	590.717	2.3	1.4	259146.196	13345330.34
2184	AELM	American elm	Ulmus americana	1	8.6	0	0	0	0	0	POOR		Structure	141.3	9/3/2021	586.793	2.1	1.9	259155.076	13345419.23
2185	COT	Eastern Cottonwood	Populus deltoides	1	15.6	15	0	0	0	0	GOOD			2.5	9/3/2021	580.886	1.9	1.6	259137.758	13345419.32
2186	WASH	White Ash	Fraxinus americana	1	9.4	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	9/3/2021	585.116	1.9	1.5	259082.479	13345425.29
2187	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			4.4	9/3/2021	586.019	1.9	1.6	259042.091	13345390.74
2188	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			3	9/3/2021	594.955	2.1	1.5	259014.662	13345404.08
~~2189~~	COT	Eastern Cottonwood	Populus deltoides	1	10.1	0	0	0	0	0	GOOD			3.5	9/3/2021	581.542	2.2	1.7	258971.695	13345393.29
~~2190~~	SWEETC	Sweet Cherry	Prunus avium	1	12.8	0	0	0	0	0	GOOD			2.8	9/3/2021	597.424	2.3	1.8	258948.227	13345393.11
~~2191~~	WASH	White Ash	Fraxinus americana	1	8.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.5	9/3/2021	591.701	1.9	1.4	258960.699	13345429.42
~~2192~~	COT	Eastern Cottonwood	Populus deltoides	1	20.9	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3	9/3/2021	586.932	3.2	2.9	258966.778	13345443.92
~~2193~~	COT	Eastern Cottonwood	Populus deltoides	1	27.3	0	0	0	0	0	GOOD			3.3	9/3/2021	591.696	2.3	1.8	258984.176	13345446.55
~~2194~~	SWEETC	Sweet Cherry	Prunus avium	1	13	0	0	0	0	0	GOOD			3.6	9/3/2021	589.595	2.6	2	258979.083	13345461.34
~~2195~~	COT	Eastern Cottonwood	Populus deltoides	1	17.3	0	0	0	0	0	POOR			5.6	9/3/2021	589.859	1.8	1.6	259005.91	13345469.12
~~2196~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.7	9/3/2021	591.906	1.8	1.5	258958.05	13345478.64
~~2197~~	WASH	White Ash	Fraxinus americana	1	8.6	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	5.7	9/3/2021	593.079	2.7	2.3	258954.36	13345476.44
~~2198~~	POAK	Pin Oak	Quercus palustris	1	8.3	0	0	0	0	0	GOOD			2.8	9/3/2021	601.382	3.7	2.9	258942.814	13345477.25
~~2199~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3	9/3/2021	607.767	2	1.7	258934.114	13345472.78
~~2200~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.5	9/3/2021	594.595	1.8	1.5	258954.842	13345496.58
~~2201~~	WASH	White Ash	Fraxinus americana	1	9.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	9/3/2021	591.505	1.9	1.3	258905.871	13345557.97
~~2202~~	WASH	White Ash	Fraxinus americana	1	10.4	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	9/3/2021	608.413	4.8	3.1	258881.396	13345561.89
~~2203~~	WASH	White Ash	Fraxinus americana	1	9.2	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	9/3/2021	578.021	3	1.7	258880.127	13345556.77
~~2204~~	REDM	Red Maple	Acer rubrum	1	9.7	0	0	0	0	0	GOOD			4	9/3/2021	603.101	3.4	2.3	258869.486	13345556.99
~~2205~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.9	9/3/2021	593.167	1.9	1.6	258887.488	13345590.47
~~2206~~	WASH	White Ash	Fraxinus americana	1	8.7	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	5.1	9/3/2021	595.517	2.9	2	258886.867	13345571.03
~~2207~~	BLKC	Black Cherry	Prunus serotina	1	8.2	0	0	0	0	0	GOOD			3	9/3/2021	591.94	3	2.2	258890.267	13345525.9
~~2208~~	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			3	9/3/2021	589.256	1.8	1.2	258882.408	13345513.28
~~2209~~	AELM	American elm	Ulmus americana	1	12.1	0	0	0	0	0	GOOD			2.9	9/3/2021	601.185	2.3	1.6	258848.163	13345487.2
~~2210~~	BLKC	Black Cherry	Prunus serotina	1	8.1	0	0	0	0	0	GOOD			2.9	9/3/2021	592.937	3.2	2.5	258840.322	13345479.33
~~2211~~	WASH	White Ash	Fraxinus americana	1	13.9	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	9/3/2021	584.575	3	2	258842.083	13345455.54
~~2212~~	WASH	White Ash	Fraxinus americana	1	8.3	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.5	9/3/2021	585.047	2.3	1.9	258843.473	13345432.37
~~2213~~	WASH	White Ash	Fraxinus americana	1	9.9	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.9	9/3/2021	594.302	2.5	1.5	258836.299	13345508.98
~~2214~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	4.4	9/3/2021	590.287	2.4	1.6	258825.568	13345580.28
~~2215~~	SILM	Silver Maple	Acer saccharinum	1	24.4	14.4	0	0	0	0	GOOD			3	9/3/2021	572.153	3.6	2.7	258796.527	13345580.12
~~2216~~	COT	Eastern Cottonwood	Populus deltoides	1	17.6	0	0	0	0	0	GOOD			4	9/3/2021	580.968	2.4	1.8	258784.404	13345605.75
~~2217~~	COT	Eastern Cottonwood	Populus deltoides	1	16.8	0	0	0	0	0	GOOD			3	9/3/2021	586.552	7	5.4	258782.6	13345592.08
~~2218~~	SILM	Silver Maple	Acer saccharinum	1	16.7	0	0	0	0	0	GOOD			3.1	9/3/2021	597.742	3	2.1	258815.663	13345621.02
~~2219~~	COT	Eastern Cottonwood	Populus deltoides	1	17.3	0	0	0	0	0	GOOD			2.9	9/3/2021	594.011	1.7	1.3	258779.981	13345593.19
~~2220~~	COT	Eastern Cottonwood	Populus deltoides	1	8.1	0	0	0	0	0	GOOD			4.7	9/3/2021	589.172	2.9	2.2	258774.698	13345597.61
~~2221~~	COT	Eastern Cottonwood	Populus deltoides	1	8.7	0	0	0	0	0	GOOD			4.9	9/3/2021	595.048	2.6	2.2	258775.166	13345599.85
~~2222~~	COT	Eastern Cottonwood	Populus deltoides	1	13.7	0	0	0	0	0	GOOD			3.1	9/3/2021	600.401	6.3	5.1	258779.48	13345602.93
~~2223~~	BOXE	Box-Elder	Acer negundo	1	8.2	0	0	0	0	0	POOR		Structure	3	9/3/2021	583.199	2.6	2.2	258754.213	13345600.04
~~2224~~	COT	Eastern Cottonwood	Populus deltoides	1	18.1	0	0	0	0	0	GOOD			3	9/3/2021	584.76	2.5	1.9	258754.096	13345611.85
~~2225~~	COT	Eastern Cottonwood	Populus deltoides	1	21.2	0	0	0	0	0	GOOD			2.6	9/3/2021	599.673	2.5	2.4	258755.896	13345614.64
~~2226~~	COT	Eastern Cottonwood	Populus deltoides	1	19.4	0	0	0	0	0	GOOD			4.3	9/3/2021	607.092	4.6	4.3	258766.897	13345594.14
~~2227~~	COT	Eastern Cottonwood	Populus deltoides	1	10.9	0	0	0	0	0	GOOD			3.1	9/3/2021	585.967	3.5	2.7	258736.548	13345603.65
~~2228~~	COT	Eastern Cottonwood	Populus deltoides	1	15.3	0	0	0	0	0	GOOD			2.8	9/3/2021	595.392	1.7	1.3	258734.646	13345599
~~2229~~	COT	Eastern Cottonwood	Populus deltoides	1	11.7	0	0	0	0	0	GOOD			3	9/3/2021	580.427	2	1.3	258733.23	13345602.97
~~2230~~	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			3.1	9/3/2021	591.413	4.2	2.8	258731.033	13345592.94
~~2231~~	COT	Eastern Cottonwood	Populus deltoides	1	10.9	0	0	0	0	0	GOOD			2.7	9/3/2021	590.21	1.7	1.3	258752.686	13345593.18
~~2232~~	COT	Eastern Cottonwood	Populus deltoides	1	18.3	0	0	0	0	0	GOOD			7	9/3/2021	598.514	7.6	6.9	258736.548	13345594.18
~~2233~~	COT	Eastern Cottonwood	Populus deltoides	1	20.3	0	0	0	0	0	GOOD			5.4	9/3/2021	585.542	5.1	2.7	258711.195	13345609.54
~~2234~~	COT	Eastern Cottonwood	Populus deltoides	1	15.6	0	0	0	0	0	GOOD			3.3	9/3/2021	619.606	2.1	2.2	258721.913	13345589.53
~~2235~~	COT	Eastern Cottonwood	Populus deltoides	1	16.8	0	0	0	0	0	GOOD			2.9	9/3/2021	615.095	2.3	2.1	258728.831	13345599.61
~~2236~~	AELM	American elm	Ulmus americana	1	10.3	0	0	0	0	0	GOOD			4.7	9/3/2021	596.02	3.2	2.5	258737.704	13345578.9
~~2237~~	COT	Eastern Cottonwood	Populus deltoides	1	11.2	0	0	0	0	0	GOOD			4.7	9/3/2021	591.285	2.1	2.2	258752.422	13345586.27
~~2238~~	COT	Eastern Cottonwood	Populus deltoides	1	12.5	0	0	0	0	0	GOOD			2.9	9/3/2021	587.397	2.1	2	258758.623	13345575.65
~~2239~~	COT	Eastern Cottonwood	Populus deltoides	1	18.6	0	0	0	0	0	GOOD			3.1	9/3/2021	586.619	3.1	2.5	258760.524	13345582.15
~~2240~~	SILM	Silver Maple	Acer saccharinum	1	10.7	0	0	0	0	0	GOOD			5.3	9/3/2021	591.166	4.1	3.5	258762.682	13345542.27
~~2241~~	SILM	Silver Maple	Acer saccharinum	1	34.9	24.2	0	0	0	0	GOOD			4.1	9/3/2021	591.801	4	3.8	258757.624	13345539.02
~~2242~~	COT	Eastern Cottonwood	Populus deltoides	1	23.8	0	0	0	0	0	GOOD			3.2	9/3/2021	591.296	1.7	1.5	258753.865	13345516.71
~~2243~~	COT	Eastern Cottonwood	Populus deltoides	1	13.8	0	0	0	0	0	GOOD			141.3	9/3/2021	580.764	2.2	2	258754.135	13345505.4
~~2244~~	COT	Eastern Cottonwood	Populus deltoides	1	25.8	0	0	0	0	0	GOOD			2.8	9/3/2021	579.205	3.8	3.8	258757.698	13345534.43
~~2245~~	COT	Eastern Cottonwood	Populus deltoides	1	12.6	0	0	0	0	0	GOOD			3.1	9/3/2021	601.108	2	1.6	258774.841	13345495.27
~~2246~~	COT	Eastern Cottonwood	Populus deltoides	1	17.8	0	0	0	0	0	GOOD			2.9	9/3/2021	590.087	2.3	1.7	258743.733	13345490.85
~~2247~~	SILM	Silver Maple	Acer saccharinum	1	24.8	0	0	0	0	0	GOOD			3.5	9/3/2021	588.742	3	2.8	258740.417	13345498.17
~~2248~~	COT	Eastern Cottonwood	Populus deltoides	1	17.2	0	0	0	0	0	GOOD			4.6	9/3/2021	602.71	2.1	2	258740.497	13345469.19
~~2249~~	SILM	Silver Maple	Acer saccharinum	1	22.2	0	0	0	0	0	GOOD			3.2	9/3/2021	585.271	3	2.3	258763.201	13345459.86
~~2250~~	SILM	Silver Maple	Acer saccharinum	1	24.8	0	0	0	0	0	GOOD			5	9/3/2021	592.436	2.2	1.9	258756.711	13345452.06
~~2251~~	SILM	Silver Maple	Acer saccharinum	1	29.1	0	0	0	0	0	GOOD			2.3	9/3/2021	577.317	5.9	5.5	258667.038	13345448.37
~~2252~~	SILM	Silver Maple	Acer saccharinum	1	13.1	0	0	0	0	0	GOOD			3	9/3/2021	585.972	1.9	2.3	258656.344	13345470.73
~~2253~~	COT	Eastern Cottonwood	Populus deltoides	1	19.7	0	0	0	0	0	GOOD			4.6	9/3/2021	598.993	3.7	2.7	258596.219	13345492.59
~~2254~~	COT	Eastern Cottonwood	Populus deltoides	1	14.8	0	0	0	0	0	GOOD			2.8	9/3/2021	582.142	2.3	2.1	258605.278	13345508.15
~~2255~~	PLOM	Lombardy Poplar	Populus nigra	1	13.9	0	0	0	0	0	GOOD			3.4	9/3/2021	583.444	2.8	2.1	258620.524	13345522.83
~~2256~~	SILM	Silver Maple	Acer saccharinum	1	24.9	18	16.7	0	0	0	GOOD			3.2	9/3/2021	613.709	2.1	1.8	258631.646	13345534.33
~~2257~~	BLKW	Black Walnut	Juglans nigra	1	8.3	0	0	0	0	0	GOOD			2.2	9/3/2021	596.009	5.3	4.1	258563.311	13345558.51
~~2258~~	COT	Eastern Cottonwood	Populus deltoides	1	11.1	0	0	0	0	0	GOOD			3	9/7/2021	602.287	3.6	2.7	258797.878	13345842.75
~~2259~~	COT	Eastern Cottonwood	Populus deltoides	1	12.9	0	0	0	0	0	GOOD			6.5	9/7/2021	594.923	3.3	1.9	258796.99	13345842.31
~~2260~~	COT	Eastern Cottonwood	Populus deltoides	1	12.1	0	0	0	0	0	GOOD			2.8	9/7/2021	583.89	2	1.2	258802.4	13345830.81
~~2261~~	PLOM	Lombardy Poplar	Populus nigra	1	9.4	0	0	0	0	0	GOOD			2.9	9/7/2021	603.632	3.3	1.9	258799.046	13345809.6
~~2262~~	SILM	Silver Maple	Acer saccharinum	1	8.7	0	0	0	0	0	GOOD			3	9/7/2021	604.106	2.5	1.5	258765.902	13345799.34
~~2263~~	COT	Eastern Cottonwood	Populus deltoides	1	20	0	0	0	0	0	GOOD			2.9	9/7/2021	600.315	2.2	1.4	258771.81	13345798.25
~~2264~~	COT	Eastern Cottonwood	Populus deltoides	1	14.2	0	0	0	0	0	GOOD			4.5	9/7/2021	594.847	2.5	2.2	258759.492	13345835.11
~~2265~~	BLKC	Black Cherry	Prunus serotina	1	10.3	0	0	0	0	0	GOOD			2.7	9/7/2021	594.963	1.7	1.2	258713.392	13345844.07
~~2266~~	COT	Eastern Cottonwood	Populus deltoides	1	11.8	0	0	0	0	0	GOOD			3.4	9/7/2021	602.933	3.2	2.6	258711.665	13345806.08
~~2267~~	COT	Eastern Cottonwood	Populus deltoides	1	13.4	0	0	0	0	0	GOOD			2.7	9/7/2021	590.813	1.9	1.3	258761.513	13345741.1
~~2268~~	COT	Eastern Cottonwood	Populus deltoides	1	18.1	0	0	0	0	0	GOOD			3	9/7/2021	590.133	1.9	1.6	258780.151	13345749.12

TREE REMOVAL LEGEND

~~00~~ INDICATES EXISTING TREE TO BE REMOVED

00 INDICATES EXISTING TREE TO REMAIN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Tree List

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
M. Carnaghi

DESIGNED BY:

APPROVED BY:
K. Navaroli

DATE:
September 24, 2021

SCALE: N.T.S.

NFE JOB NO.
M278-01

SHEET NO.
SP 1.28

~~2269~~	COT	Eastern Cottonwood	Populus deltoides	1	8.1	0	0	0	0	0	GOOD			2.8	9/7/2021	599.273	2	1.5	258786.818	13345747.24
~~2270~~	COT	Eastern Cottonwood	Populus deltoides	1	11.4	8	0	0	0	0	GOOD			3.1	9/7/2021	597.665	4.2	3.3	258792.164	13345747.29
~~2271~~	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			2.4	9/7/2021	598.884	3.8	2.8	258791.386	13345753.86
~~2272~~	COT	Eastern Cottonwood	Populus deltoides	1	12.4	0	0	0	0	0	GOOD			2.9	9/7/2021	588.256	2.9	2.6	258761.626	13345715.2
~~2273~~	COT	Eastern Cottonwood	Populus deltoides	1	9.6	0	0	0	0	0	GOOD			2.9	9/7/2021	598.325	1.7	1.4	258735.568	13345708.21
~~2274~~	COT	Eastern Cottonwood	Populus deltoides	1	17.1	0	0	0	0	0	GOOD			3	9/7/2021	593.33	2.1	2.2	258714.4	13345702.81
~~2275~~	COT	Eastern Cottonwood	Populus deltoides	1	10.2	0	0	0	0	0	GOOD			2.8	9/7/2021	592.047	2	1.8	258719.016	13345691.67
~~2276~~	COT	Eastern Cottonwood	Populus deltoides	1	12.1	0	0	0	0	0	GOOD			3	9/7/2021	587.429	1.6	1.6	258716.986	13345672.86
~~2277~~	COT	Eastern Cottonwood	Populus deltoides	1	9.6	0	0	0	0	0	GOOD			2.7	9/7/2021	593.859	2.8	3	258708.287	13345673.89
~~2278~~	COT	Eastern Cottonwood	Populus deltoides	1	9.5	0	0	0	0	0	GOOD			3.2	9/7/2021	597.141	2.5	1.8	258677.863	13345658.33
~~2279~~	COT	Eastern Cottonwood	Populus deltoides	1	15.1	0	0	0	0	0	GOOD			3	9/7/2021	595.622	2.2	1.8	258677.153	13345645.66
~~2280~~	COT	Eastern Cottonwood	Populus deltoides	1	9	0	0	0	0	0	GOOD			8.6	9/7/2021	563.259	2.4	2	258663.823	13345638.62
~~2281~~	WASH	White Ash	Fraxinus americana	1	8.7	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	7.9	9/7/2021	587.516	1.9	1.4	258841.798	13345607.25
~~2282~~	WASH	White Ash	Fraxinus americana	1	9.6	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	5.5	9/7/2021	593.54	3.1	2	258803.866	13345444.38
~~2283~~	SILM	Silver Maple	Acer saccharinum	1	11.4	10.2	10.1	0	0	0	GOOD			3.2	9/7/2021	598.835	2.4	2.4	258828.252	13345353.93
~~2284~~	BLKC	Black Cherry	Prunus serotina	1	10.2	0	0	0	0	0	GOOD			4.5	9/7/2021	592.526	2.6	1.9	258828.507	13345371.41
~~2285~~	WASH	White Ash	Fraxinus americana	1	11.9	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.9	9/7/2021	599.223	2.8	2.1	258856.921	13345389.24
~~2286~~	BLKC	Black Cherry	Prunus serotina	1	8.5	0	0	0	0	0	GOOD			2.7	9/7/2021	589.738	1.7	1.2	258901.882	13345418.45
~~2287~~	AELM	American elm	Ulmus americana	1	12.5	0	0	0	0	0	GOOD			2.9	9/7/2021	585.057	4.4	3.2	258912.295	13345444.14
~~2288~~	COT	Eastern Cottonwood	Populus deltoides	1	12.7	0	0	0	0	0	GOOD			3.2	9/7/2021	586.018	3.6	2.7	258900.471	13345305.6
~~2289~~	COT	Eastern Cottonwood	Populus deltoides	1	11.2	0	0	0	0	0	GOOD			3.3	9/7/2021	587.354	2.2	1.5	258898.971	13345301.47
~~2290~~	BLKC	Black Cherry	Prunus serotina	1	8.8	0	0	0	0	0	GOOD			2.8	9/7/2021	597.517	2	1.6	258878.108	13345280.63
~~2291~~	MUL	White Mulberry	Morus alba	1	9.8	0	0	0	0	0	GOOD			3	9/7/2021	593.787	2.2	2	258857.014	13345309.01
~~2292~~	AELM	American elm	Ulmus americana	1	9	0	0	0	0	0	GOOD			2.9	9/7/2021	594.572	3.1	2.3	258844.699	13345302.36
~~2293~~	WASH	White Ash	Fraxinus americana	1	9.1	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	3.3	9/7/2021	589.48	2.7	1.8	258836.417	13345307.7
~~2294~~	WASH	White Ash	Fraxinus americana	1	9.7	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.7	9/7/2021	573.557	1.9	1.4	258821.879	13345305.61
~~2295~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			4.2	9/7/2021	590.306	2.1	1.8	258819.934	13345299.93
~~2296~~	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			3.2	9/7/2021	599.625	2.4	1.4	258830.484	13345247.48
~~2297~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			4	9/7/2021	590.387	2.2	1.5	258871.837	13345181.56
~~2298~~	WASH	White Ash	Fraxinus americana	1	8.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	9/7/2021	602.228	4	2.4	258896.523	13345240.44
2299	SILM	Silver Maple	Acer saccharinum	1	9.3	8.5	0	0	0	0	GOOD			2.8	9/7/2021	585.272	1.9	1.7	258988.998	13345242.07
~~2300~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.4	9/7/2021	587.077	1.7	1.1	258970.794	13345230.36
2301	WASH	White Ash	Fraxinus americana	1	9.2	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	9/7/2021	589.045	2.6	1.5	258981.861	13345158.28
2302	COT	Eastern Cottonwood	Populus deltoides	1	12.8	0	0	0	0	0	GOOD			2.9	9/7/2021	585.584	1.9	1.2	259013.411	13345181.36
2303	SILM	Silver Maple	Acer saccharinum	1	10.9	0	0	0	0	0	GOOD			2.7	9/7/2021	584.872	1.9	1.9	259046.741	13345187.71
2304	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.8	9/7/2021	588.588	1.8	1.2	259078.217	13345194.72
2305	SILM	Silver Maple	Acer saccharinum	1	10.5	0	0	0	0	0	GOOD			3.7	9/7/2021	587.356	2.2	1.4	259073.166	13345216.28
2306	BLKL	Black Locust	Robinia pseudoacacia	1	8	0	0	0	0	0	GOOD			13.2	9/7/2021	587.696	3.7	3.8	259147.204	13345113.1
2307	BLKL	Black Locust	Robinia pseudoacacia	1	12.7	0	0	0	0	0	GOOD			2.9	9/7/2021	595.926	2.2	1.8	259154.729	13345110.19
2308	BLKL	Black Locust	Robinia pseudoacacia	1	10.7	0	0	0	0	0	GOOD			3	9/7/2021	588.207	2.7	1.7	259158.496	13345127.22
2309	BLKL	Black Locust	Robinia pseudoacacia	1	8.2	0	0	0	0	0	GOOD			3	9/7/2021	577.398	3	2.1	259164.842	13345144.98
2310	COT	Eastern Cottonwood	Populus deltoides	1	10.1	0	0	0	0	0	GOOD			4.2	9/7/2021	625.829	2.5	1.7	259185.246	13345130.03
2311	BLKW	Black Walnut	Juglans nigra	1	10.1	0	0	0	0	0	GOOD			5.5	9/7/2021	558.954	4.7	3.4	259226.049	13345121.94
2312	AELM	American elm	Ulmus americana	1	8.1	0	0	0	0	0	GOOD			16	9/7/2021	602.602	4.5	2.8	259215.913	13345115.86
2313	BLKW	Black Walnut	Juglans nigra	1	8.6	0	0	0	0	0	GOOD			3.7	9/7/2021	582.84	2.8	1.9	259191.348	13345104.79
2314	BLKW	Black Walnut	Juglans nigra	1	8.5	0	0	0	0	0	GOOD			2.9	9/7/2021	591.972	2.5	2	259186.107	13345081.39
2315	COT	Eastern Cottonwood	Populus deltoides	1	14.5	0	0	0	0	0	GOOD			7.9	9/7/2021	604.882	4.8	3.9	259196.154	13345079.79
2316	COT	Eastern Cottonwood	Populus deltoides	1	15.7	0	0	0	0	0	GOOD			3.5	9/7/2021	594.026	2.2	2	259179.898	13345080.88
2317	BLKL	Black Locust	Robinia pseudoacacia	1	8.3	0	0	0	0	0	GOOD			3	9/7/2021	591.566	1.8	1.3	259178.146	13345076.14
2318	BLKW	Black Walnut	Juglans nigra	1	11.5	0	0	0	0	0	GOOD			3.1	9/7/2021	611.009	3.1	2.7	259181.838	13345113.27
2319	MUL	White Mulberry	Morus alba	1	9	0	0	0	0	0	GOOD			3	9/7/2021	588.21	2.4	2.2	259125.54	13345091.01
2320	BLKL	Black Locust	Robinia pseudoacacia	1	12.7	0	0	0	0	0	GOOD			3.3	9/7/2021	605.875	2.7	2.1	259132.265	13345083.76
2321	COT	Eastern Cottonwood	Populus deltoides	1	11.4	0	0	0	0	0	GOOD			3.8	9/7/2021	600.867	3	2.2	259116.367	13345075.44
2322	SILM	Silver Maple	Acer saccharinum	1	12.5	0	0	0	0	0	GOOD			3.1	9/7/2021	592.45	2.1	1.7	259086.065	13345091.33
2323	COT	Eastern Cottonwood	Populus deltoides	1	23.1	0	0	0	0	0	GOOD			2.8	9/7/2021	591.197	1.7	1.3	259050.087	13345102.56
2324	COT	Eastern Cottonwood	Populus deltoides	1	16.5	0	0	0	0	0	GOOD			3.2	9/7/2021	604.679	1.7	1.3	259048.877	13345092.79
2325	COT	Eastern Cottonwood	Populus deltoides	1	19.4	0	0	0	0	0	GOOD			3.9	9/7/2021	582.756	2.4	2	259043.881	13345097.98
2326	COT	Eastern Cottonwood	Populus deltoides	1	14.3	0	0	0	0	0	GOOD			2.9	9/7/2021	580.309	1.8	1.4	259052.343	13345091.14
2327	COT	Eastern Cottonwood	Populus deltoides	1	15.1	8.2	0	0	0	0	GOOD			5.2	9/7/2021	581.502	1.7	1.4	259051.564	13345093.27
2328	COT	Eastern Cottonwood	Populus deltoides	1	23.5	0	0	0	0	0	GOOD			3.1	9/7/2021	590.398	2.4	2	259047.838	13345095.85
2329	AELM	American elm	Ulmus americana	1	17.1	0	0	0	0	0	GOOD			3.7	9/7/2021	585.09	2.5	1.9	259051.245	13345117.12
2330	SILM	Silver Maple	Acer saccharinum	1	19.6	0	0	0	0	0	GOOD			2.7	9/7/2021	587.695	1.7	1.4	259053.717	13345147.66
2331	COT	Eastern Cottonwood	Populus deltoides	1	30.1	0	0	0	0	0	GOOD			2.9	9/7/2021	588.087	1.7	1.6	258978.273	13345105.74
~~2332~~	SILM	Silver Maple	Acer saccharinum	1	9.1	0	0	0	0	0	GOOD			3.3	9/7/2021	586.833	5.2	4.1	258964.617	13345098.19
~~2333~~	CEDAR	Red-Cedar	Juniperus virginiana	1	8	0	0	0	0	0	GOOD			2.8	9/7/2021	583.509	1.9	1.8	258958.656	13345103.98
~~2334~~	NORWM	Norway Maple	Acer platanoides	1	8.4	0	0	0	0	0	GOOD			2.8	9/7/2021	589.417	1.8	1.7	258958.386	13345083.98
~~2335~~	WASH	White Ash	Fraxinus americana	1	8.6	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.8	9/7/2021	588.302	1.9	1.9	258918.894	13345087.66
2336	SILM	Silver Maple	Acer saccharinum	1	18.8	0	0	0	0	0	GOOD			3.1	9/7/2021	593.34	2.1	1.8	258980.46	13345059.65
2337	COT	Eastern Cottonwood	Populus deltoides	1	16.7	0	0	0	0	0	GOOD			2.8	9/7/2021	596.421	2.1	2	259029.068	13345051.89
2338	COT	Eastern Cottonwood	Populus deltoides	1	8.7	0	0	0	0	0	GOOD			2.9	9/7/2021	586.035	3.2	2.9	259041.483	13345058.51
2339	COT	Eastern Cottonwood	Populus deltoides	1	12.8	0	0	0	0	0	GOOD			2.8	9/7/2021	601.235	2.4	1.7	259041.277	13345048.64
2340	SILM	Silver Maple	Acer saccharinum	1	12.2	0	0	0	0	0	GOOD			3.6	9/7/2021	571.835	5.2	4	259034.112	13345030.19
2341	COT	Eastern Cottonwood	Populus deltoides	1	16.1	0	0	0	0	0	GOOD			3	9/7/2021	592.163	1.7	1.6	259027.147	13345035.35
2342	COT	Eastern Cottonwood	Populus deltoides	1	12.1	10.7	10.1	0	0	0	GOOD			7.2	9/7/2021	594.397	2.6	2.6	259023.534	13345038.68
2343	COT	Eastern Cottonwood	Populus deltoides	1	12.6	0	0	0	0	0	GOOD			2.8	9/7/2021	592.048	1.6	1.5	259019.771	13345025.13
2344	COT	Eastern Cottonwood	Populus deltoides	1	13.8	0	0	0	0	0	GOOD			2.8	9/7/2021	593.056	1.9	1.9	259005.903	13345005.23
2345	SILM	Silver Maple	Acer saccharinum	1	10.3	9	8.7	0	0	0	GOOD			2.9	9/7/2021	602.258	2.4	1.8	258981.959	13344980.47
2346	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.6	9/7/2021	591.669	1.8	1.4	258978.445	13344955.4
2347	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			3	9/7/2021	582.72	1.7	1.5	258983.795	13344956.4
2348	COT	Eastern Cottonwood	Populus deltoides	1	19	0	0	0	0	0	GOOD			2.8	9/7/2021	585.74	1.7	1.5	258995.116	13344950.5
~~2349~~	BLKC	Black Cherry	Prunus serotina	1	9.4	0	0	0	0	0	GOOD			3	9/7/2021	594.349	1.6	1.3	258935.658	13344986.7
~~2350~~	SILM	Silver Maple	Acer saccharinum	1	8	0	0	0	0	0	GOOD			5.6	9/7/2021	588.346	1.8	1.4	258931.469	13345018.6
~~2351~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			4	9/7/2021	593.912	2.5	2.1	258940.472	13345028.19
~~2352~~	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			2.6	9/7/2021	584.212	1.6	1.3	258956.591	13345056.55
~~2353~~	COT	Eastern Cottonwood	Populus deltoides	1	11	0	0	0	0	0	GOOD			2.9	9/7/2021	587.246	1.8	1.4	258961.223	13345050.35
~~2354~~	WASH	White Ash	Fraxinus americana	1	13.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	9/7/2021	601.083	2.6	2.2	258847.475	13345017.53
~~2355~~	AELM	American elm	Ulmus americana	1	9.2	0	0	0	0	0	GOOD			7	9/7/2021	588.383	2.4	2.1	258836.776	13345025.29
~~2356~~	BLKC	Black Cherry	Prunus serotina	1	12.7	0	0	0	0	0	GOOD			3.1	9/7/2021	593.597	1.7	1.5	258834.945	13345042.3
~~2357~~	BLKC	Black Cherry	Prunus serotina	1	9.9	0	0	0	0	0	GOOD			3	9/8/2021	594.537	2.7	1.4	258818.821	13344961.76
~~2358~~	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			3	9/8/2021	594.427	2	1.2	258825.15	13344964.14
~~2359~~	BLKC	Black Cherry	Prunus serotina	1	9	0	0	0	0	0	GOOD			2.7	9/8/2021	579.669	2.3	1.6	258832.376	13344957.25
~~2360~~	WASH	White Ash	Fraxinus americana	1	8.2	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.8	9/8/2021	597.886	1.8	1.3	258837.97	13344959.6
~~2361~~	BLKC	Black Cherry	Prunus serotina	1	8.7	0	0	0	0	0	GOOD			5.1	9/8/2021	637.363	5.3	3.7	258816.428	13344938.53
~~2362~~	BLKC	Black Cherry	Prunus serotina	1	9.7	0	0	0	0	0	GOOD			3.2	9/8/2021	588.132	2	1.4	258810.24	13344889.64
~~2363~~	WASH	White Ash	Fraxinus americana	1	10.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3	9/8/2021	593.243	1.7	1.2	258795.592	13344875.99
~~2364~~	POAK	Pin Oak	Quercus palustris	1	8.7	0	0	0	0	0	GOOD			2.7	9/8/2021	589.679	1.7	1.5	258819.091	13344853.99
~~2365~~	SILM	Silver Maple	Acer saccharinum	1	18.9	13.2	12.3	11.7	0	0	GOOD			2.9	9/8/2021	586.712	2.2	1.7	258838.075	13344840.13
~~2366~~	BLKC	Black Cherry	Prunus serotina	1	13	0	0	0	0	0	GOOD			3	9/8/2021	582.508	2.4	2.2	258853.381	13344827.22
2367	COT	Eastern Cottonwood	Populus deltoides	1	14.6	0	0	0	0	0	GOOD			6.7	9/8/2021	592.228	1.7	1.4	258954.025	13344844.8
2368	SILM	Silver Maple	Acer saccharinum	1	19.6	0	0	0	0	0	GOOD			3.3	9/8/2021	587.219	3.4	2.7	258966.951	13344868.21
2369	COT	Eastern Cottonwood	Populus deltoides	1	18.8	0	0	0	0	0	GOOD			3	9/8/2021	595.716	3	2.6	258965.65	13344878.54
~~2370~~	COT	Eastern Cottonwood	Populus deltoides	1	14.2	0	0	0	0	0	GOOD			3	9/8/2021	596.013	1.8	1.4	258951.753	13344877.5
~~2371~~	CEDAR	Red-Cedar	Juniperus virginiana	1	10.3	0	0	0	0	0	GOOD			3	9/8/2021	578.382	5	4.6	258945.719	13344896.84
2372	COT	Eastern Cottonwood	Populus deltoides	1	14.4	0	0	0	0	0	GOOD			3	9/8/2021	593.386	2.3	1.7	258966.974	13344910.58
2373	SILM	Silver Maple	Acer saccharinum	1	11.5	9.1	0	0	0	0	GOOD			3	9/8/2021	586.097	1.8	1.5	259063.01	13344957.57
2374	BLKW	Black Walnut	Juglans nigra	1	8	0	0	0	0	0	GOOD			3.6	9/8/2021	589.283	1.8	1.3	259097.231	13344962.61
2375	BLKW	Black Walnut	Juglans nigra	1	10.3	0	0	0	0	0	GOOD			5.7	9/8/2021	583.548	2.7	1.6	259117.157	13344958.03
2376	SWEETC	Sweet Cherry	Prunus avium	1	8	0	0	0	0	0	GOOD			2.9	9/8/2021	587.358	2	1.4	259134.359	13345010.19
2377	REDM	Red Maple	Acer rubrum	1	12.6	0	0	0	0	0	GOOD			3.5	9/8/2021	600.928	3.9	2.8	259156.242	13345010.75
2378	BLKL	Black Locust	Robinia pseudoacacia	1	8.3	0	0	0	0	0	GOOD			2.8	9/8/2021	596.631	1.7	1.3	259132.409	13345018.68
2379	BLKL	Black Locust	Robinia pseudoacacia	1	10.2	0	0	0	0	0	GOOD			4.2	9/8/2021	598.326	2.4	1.5	259130.373	13345031.73
2380	REDM	Red Maple	Acer rubrum	1	10	0	0	0	0	0	GOOD			2.4	9/8/2021	618.026	5.4	3.4	259159.566	13345040.3
2381	COT	Eastern Cottonwood	Populus deltoides	1	23.9	0	0	0	0	0	GOOD			3	9/8/2021	591.978	2.3	2.1	259178.44	13345038.21
2382	POAK	Pin Oak	Quercus palustris	1	9.3	0	0	0	0	0	GOOD			2.9	9/8/2021	590.438	2.3	2	259107.132	13344906.54
2383	POAK	Pin Oak	Quercus palustris	1	9.7	0	0	0	0	0	GOOD			2.7	9/8/2021	589.037	2	1.6	259104.103	13344892.16
2384	SWO	Swamp White Oak	Quercus bicolor	1	10.2	0	0	0	0	0	GOOD			4.7	9/8/2021	582.473	3.8	3.1	259100.772	13344883.25
2385	POAK	Pin Oak	Quercus palustris	1	10.1	0	0	0	0	0	GOOD			2.9	9/8/2021	584.834	2.3	1.8	259106.226	13344858.69
2386	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.9	9/8/2021	594.612	1.9	1.4	259072.859	13344879.97
2387	AELM	American elm	Ulmus americana	1	8.5	0	0	0	0	0	GOOD			2.8	9/8/2021	583.809	1.9	1.6	259047.778	13344866.45
2388	SILM	Silver Maple	Acer saccharinum	1	10.1	9.7	0	0	0	0	GOOD			4.4	9/8/2021	585.401	2.7	2	259002.837	13344842.72
2389	COT	Eastern Cottonwood	Populus deltoides	1	18.8	0	0	0	0	0	GOOD			3	9/8/2021	591.584	2.1	1.6	258983.982	13344823.16
2390	COT	Eastern Cottonwood	Populus deltoides	1	13.4	0	0	0	0	0	GOOD			2.9	9/8/2021	590.01	2.2	1.8	258962.628	13344797.66
2391	COT	Eastern Cottonwood	Populus deltoides	1	14.2	0	0	0	0	0	GOOD			3.1	9/8/2021	588.068	2	1.6	258956.082	13344781.26
2392	COT	Eastern Cottonwood	Populus deltoides	1	21.7	11	0	0	0	0	GOOD			3	9/8/2021	592.742	2	1.6	258958.193	13344778.39
2393	SILM	Silver Maple	Acer saccharinum	1	10.2	0	0	0	0	0	GOOD			2.9	9/8/2021	592.164	2.2	1.8	258940.846	13344763.43
2394	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			2.9	9/8/2021	583.869	2.1	1.7	258973.236	13344779.9
2395	COT	Eastern Cottonwood	Populus deltoides	1	8.3	0	0	0	0	0	GOOD			3	9/8/2021	589.038	1.7	1.3	258999.28	13344778.58
2396	AELM	American elm	Ulmus americana	1	10	0	0	0	0	0	GOOD			2.9	9/8/2021	589.799	1.8	1.4	258966.517	13344737.1
2397	COT	Eastern Cottonwood	Populus deltoides	1	9.9	0	0	0	0	0	GOOD			3.2	9/8/2021	584.329	2.3	1.8	258970.511	13344721.8
2398	SILM	Silver Maple	Acer saccharinum	1	10.8	9.2	0	0	0	0	GOOD			2.9	9/8/2021	582.633	2	1.8	258945.552	13344721.15
2399	SILM	Silver Maple	Acer saccharinum	1	8.6	0	0	0	0	0	GOOD			3	9/8/2021	571.935	3.5	2.6	258962.267	13344697.74
2400	COT	Eastern Cottonwood	Populus deltoides	1	21.5	14.7	9.2	0	0	0	GOOD			3.3	9/8/2021	588.342	2.7	2.5	258945.215	13344701.85
2401	SILM	Silver Maple	Acer saccharinum	1	13.6	0	0	0	0	0	GOOD			3	9/8/2021	586.555	2.1	1.5	258986.657	13344690.86
2402	COT	Eastern Cottonwood	Populus deltoides	1	23.2	0	0	0	0	0	GOOD			3	9/8/2021	587.083	1.9	1.4	259003.082	13344698.4
2403	COT	Eastern Cottonwood	Populus deltoides	1	14.6	0	0	0	0	0	GOOD			3.2	9/8/2021	588.065	2.2	1.2	258998.86	13344716.09
2404	ROAK	Red Oak	Quercus rubra	1	9	0	0	0	0	0	GOOD			3.4	9/8/2021	591.523	2.5	1.9	259020.854	13344722.15
2405	AELM	American elm	Ulmus americana	1	10.4	0	0	0	0	0	GOOD			2.6	9/8/2021	586.145	1.7	1.1	258879.374	13344643.51
2406	AELM	American elm	Ulmus americana	1	12.8	0	0	0	0	0	GOOD			3.2	9/8/2021	599.641	3.6	2.5	258852.153	13344675.62
2407	SILM	Silver Maple	Acer saccharinum	1	12.4	0	0	0	0	0	GOOD			3.3	9/8/2021	584.856	2.5	1.6	258851.434	13344687.18
2408	BLKC	Black Cherry	Prunus serotina	1	8.4	0	0	0	0	0	GOOD			3.5	9/8/2021	592.99	2	1.3	258836.193	13344690.12
2409	BLKC	Black Cherry	Prunus serotina	1	8.6	0	0	0	0	0	GOOD			2.9	9/8/2021	589.971	2.2	1.7	258839.144	13344706.57
2410	COT	Eastern Cottonwood	Populus deltoides	1	18.2	16.7	0	0	0	0	GOOD			3	9/8/2021	591.908	2.1	1.5	258854.269	13344709.62
2411	BLKC	Black Cherry	Prunus serotina	1	10.4	0	0	0	0	0	GOOD			2.9	9/8/2021	596.966	2.3	1.5	258875.508	13344722.77
2412	WASH	White Ash	Fraxinus americana	1	11.3	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	2.9	9/8/2021	586.035	2.6	1.7	258884.151	13344744.7
2413	BLKC	Black Cherry	Prunus serotina	1	8.3	0	0	0	0	0	GOOD			2.8	9/8/2021	595.167	2.5	1.5	258896.52	13344741.03
2414	AELM	American elm	Ulmus americana	1	8.5	0	0	0	0	0	GOOD			2.6	9/8/2021	595.975	2.4	1.4	258885.131	13344763.12
2415	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.7	9/8/2021	589.238	1.8	1.1	258860.53	13344741.22
~~2416~~	SILM	Silver Maple	Acer saccharinum	1	11.1	11	9.7	0	0	0	GOOD			3.9	9/8/2021	594.826	2.2	1.3	258822.256	13344741.69
~~2417~~	BLKC	Black Cherry	Prunus serotina	1	8.8	0	0	0	0	0	GOOD			3.6	9/8/2021	592.708	2.1	1.2	258817.169	13344746.1
~~2418~~	SILM	Silver Maple	Acer saccharinum	1	11.9	8.1	0	0	0	0	GOOD			9.2	9/8/2021	600.088	3	2.1	258824.313	13344763.05
~~2419~~	WASH	White Ash	Fraxinus americana	1	12.1	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.1	9/8/2021	598.746	2.8	1.7	258823.966	13344775.96
~~2420~~	WASH	White Ash	Fraxinus americana	1	9.2	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.6	9/8/2021	587.808	2.2	1.3	258871.146	13344778.52
~~2421~~	SILM	Silver Maple	Acer saccharinum	1	12.8	0	0	0	0	0	GOOD			2.8	9/8/2021	589.104	2.4	1.4	258824.143	13344798.15
~~2422~~	SILM	Silver Maple	Acer saccharinum	1	19.6	8.3	8	0	0	0	GOOD			3.3	9/8/2021	593.748	3.5	2.7	258798.142	13344755.17
~~2423~~	SILM	Silver Maple	Acer saccharinum	1	9.2	0	0	0	0	0	GOOD			2.9	9/8/2021	589.839	2.1	1.3	258807.741	13344693.33
2424	SILM	Silver Maple	Acer saccharinum	1	8.8	0	0	0	0	0	GOOD			4.3	9/8/2021	583.836	2	1.4	258799.516	13344674.29
2425	AELM	American elm	Ulmus americana	1	10.8	0	0	0	0	0	GOOD			3	9/8/2021	597.592	2.3	1.7	258812.997	13344661.08
2426	WASH	White Ash	Fraxinus americana	1	9	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.8	9/8/2021	593.748	1.9	1.2	258806.794	13344670.69
2427	BLKC	Black Cherry	Prunus serotina	1	9.5	0	0	0	0	0	GOOD			3.5	9/8/2021	598.957	2.3	1.4	258832.219	13344635.46
2428	WASH	White Ash	Fraxinus americana	1	8.5	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.8	9/8/2021	591.466	2	1.2	258829.495	13344627.88
2429	SILM	Silver Maple	Acer saccharinum	1	10.2	0	0	0	0	0	GOOD			3	9/8/2021	576.419	2	1.4	258804.516	13344627.59
2430	WASH	White Ash	Fraxinus americana	1	10.6	9.7	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.8	9/8/2021	574.593	2.3	1.4	258807.706	13344623.65
~~2431~~	WASH	White Ash	Fraxinus americana	1	8.4	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	3.2	9/8/2021	595.78	2.2	1.4	258791.038	13344665.63
~~2432~~	WASH	White Ash	Fraxinus americana	1	9	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	3.5	9/8/2021	595.305	2.1	1.3	258763.861	13344673.29
~~2433~~	BLKC	Black Cherry	Prunus serotina	1	12.8	0	0	0	0	0	GOOD			7.7	9/8/2021	576.029	2.1	1.3	258785.918	13344713.34
~~2434~~	SILM	Silver Maple	Acer saccharinum	1	20.2	12.3	0	0	0	0	GOOD			7.8	9/8/2021	574.974	2.3	1.7	258780.846	13344756.96
~~2435~~	SILM	Silver Maple	Acer saccharinum	1	15.5	0	0	0	0	0	GOOD			5.6	9/8/2021	572.436	2.2	1.4	258768.257	13344795.96
~~2436~~	SILM	Silver Maple	Acer saccharinum	1	14.4	0	0	0	0	0	GOOD			3.7	9/8/2021	598.884	4.3	2.8	258740.367	13344805.59
~~2437~~	WASH	White Ash	Fraxinus americana	1	8	0	0	0	0	0	FAIR		STRUCTURE, Emerald Ash Borer	141.3	9/8/2021	577.466	6.8	5.4	258743.771	13344820.9
~~2438~~	COT	Eastern Cottonwood	Populus deltoides	1	10.2	0	0	0	0	0	GOOD			6.9	9/8/2021	597.476	5	4.2	258741.044	13344905.49
~~2439~~	COT	Eastern Cottonwood	Populus deltoides	1	8.8	0	0	0	0	0	GOOD			3	9/8/2021	589.347	4.5	5	258750.732	13344897.48
~~2440~~	COT	Eastern Cottonwood	Populus deltoides	1	8.4	0	0	0	0	0	GOOD			3	9/8/2021	584.652	1.9	1.3	258755.806	13344889.28
~~2441~~	COT	Eastern Cottonwood	Populus deltoides	1	13.9	0	0	0	0	0	GOOD			3.4	9/8/2021	578.983	6.8	6.7	258760.337	13344895.44
~~2442~~	COT	Eastern Cottonwood	Populus deltoides	1	16.3	0	0	0	0	0	GOOD			3.2	9/8/2021	598.182	2.1	1.6	258749.077	13344880.61
~~2443~~	COT	Eastern Cottonwood	Populus deltoides	1	14.5	0	0	0	0	0	GOOD			3.2	9/8/2021	593.763	2.5	1.8	258741.302	13344891.28
~~2444~~	COT	Eastern Cottonwood	Populus deltoides	1	10.5	0	0	0	0	0	GOOD			3.2	9/8/2021	567.241	6.1	4.4	258751.435	13344890.51
~~2445~~	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			3	9/8/2021	587.637	3.5	2.5	258739.374	13344886.24
~~2446~~	COT	Eastern Cottonwood	Populus deltoides	1	9.4	0	0	0	0	0	GOOD			2.9	9/8/2021	590.16	2.1	1.6	258734.858	13344883.7
~~2447~~	COT	Eastern Cottonwood	Populus deltoides	1	10.6	0	0	0	0	0	GOOD			2.8	9/8/2021	577.16	2.5	1.9	258731.037	13344888.52
~~2448~~	COT	Eastern Cottonwood	Populus deltoides	1	10.5	0	0	0	0	0	GOOD			3.1	9/8/2021	599.777	3	2.7	258716.211	13344889.7
~~2449~~	COT	Eastern Cottonwood	Populus deltoides	1	10.8	0	0	0	0	0	GOOD			141.3	9/8/2021	581.419	2	1.7	258721.287	13344879.31
~~2450~~	COT	Eastern Cottonwood	Populus deltoides	1	13.8	0	0	0	0	0	GOOD			4.3	9/8/2021	582.4	2.6	2	258729.003	13344875.59
~~2451~~	COT	Eastern Cottonwood	Populus deltoides	1	8.6	0	0	0	0	0	GOOD			3.3	9/8/2021	584.733	3.4	3.4	258734.44	13344866.5
~~2452~~	COT	Eastern Cottonwood	Populus deltoides	1	22.4	0	0	0	0	0	GOOD			2.9	9/8/2021	599.19	1.8	1.5	258711.626	13344841
~~2453~~	COT	Eastern Cottonwood	Populus deltoides	1	11.5	0	0	0	0	0	GOOD			3	9/8/2021	594.493	1.7	1.3	258704.387	13344834.83
~~2454~~	AELM	American elm	Ulmus americana	1	9.8	0	0	0	0	0	GOOD			2.7	9/8/2021	594.235	5	4.1	258694.234	13344822.46
~~2455~~	COT	Eastern Cottonwood	Populus deltoides	1	10.5	0	0	0	0	0	GOOD			2.5	9/8/2021	593.611	1.8	1.5	258648.895	13344821.31
~~2456~~	COT	Eastern Cottonwood	Populus deltoides	1	10.8	0	0	0	0	0	GOOD			3.5	9/8/2021	595.946	4	3.6	258652.807	13344811.7
~~2457~~	COT	Eastern Cottonwood	Populus deltoides	1	12.1	0	0	0	0	0	GOOD			4.1	9/8/2021	575.713	3.7	3.1	258659.109	13344804.03
~~2458~~	COT	Eastern Cottonwood	Populus deltoides	1	16	0	0	0	0	0	GOOD			3.1	9/8/2021	595.38	1.6	1.5	258653.857	13344801.25
~~2459~~	COT	Eastern Cottonwood	Populus deltoides	1	10.3	0	0	0	0	0	GOOD			3	9/8/2021	588.193	2	1.9	258645.427	13344790.71
~~2460~~	COT	Eastern Cottonwood	Populus deltoides	1	25.9	0	0	0	0	0	GOOD			3.4	9/8/2021	589.01	3.5	3.8	258629.893	13344781.31
~~2461~~	AELM	American elm	Ulmus americana	1	11.6	0	0	0	0	0	GOOD			2.9	9/8/2021	588.955	1.8	1.6	258624.957	13344780.4
~~2462~~	COT	Eastern Cottonwood	Populus deltoides	1	12	0	0	0	0	0	GOOD			3.2	9/8/2021	575.433	2.6	2.4	258672.934	13344783.19
~~2463~~	COT	Eastern Cottonwood	Populus deltoides	1	13.3	0	0	0	0	0	GOOD			3	9/8/2021	592.242	2.9	2.5	258678.324	13344785.52
~~2464~~	COT	Eastern Cottonwood	Populus deltoides	1	16.6	0	0	0	0	0	GOOD			3	9/8/2021	597.569	1.8	1.7	258677.393	13344790.8
~~2465~~	SILM	Silver Maple	Acer saccharinum	1	24.3	13.7	0	0	0	0	GOOD			3.2	9/8/2021	588.087	2.1	1.9	258706.902	13344796.94
~~2466~~	COT	Eastern Cottonwood	Populus deltoides	1	16	0	0	0	0	0	GOOD			2.9	9/8/2021	593.602	2.1	1.7	258708.338	13344804.97
~~2467~~	COT	Eastern Cottonwood	Populus deltoides	1	9.4	0	0	0	0	0	GOOD			2.4	9/8/2021	593.061	2	1.8	258716.554	13344787.88
~~2468~~	COT	Eastern Cottonwood	Populus deltoides	1	14.8	0	0	0	0	0	GOOD			2.8	9/8/2021	595.658	2.8	2.6	258571.224	13344776.6
~~2469~~	COT	Eastern Cottonwood	Populus deltoides	1	20.1	0	0	0	0	0	GOOD			3.3	9/8/2021	588.528	1.9	1.4	258567.052	13344750.79
~~2470~~	SILM	Silver Maple	Acer saccharinum	1	15.2	12.8	12.7	0	0	0	GOOD			65	9/8/2021	618.73	3.8	3.9	258545.389	13344738.01
~~2471~~	COT	Eastern Cottonwood	Populus deltoides	1	30.6	12.4	0	0	0	0	GOOD			5.3	9/8/2021	612.158	11.4	13.3	258527.235	13344744.06
~~2472~~	SILM	Silver Maple	Acer saccharinum	1	13.2	11.1	9.5	9.1	0	0	GOOD			6.9	9/8/2021	604.131	2.6	2.4	258528.715	13344756.4
~~2473~~	COT	Eastern Cottonwood	Populus deltoides	1	11.3	9.6	0	0	0	0	GOOD			2.8	9/8/2021	590.105	1.6	1.7	258646.244	13344603.89
~~2474~~	COT	Eastern Cottonwood	Populus deltoides	1	12.4	0	0	0	0	0	GOOD			2.8	9/8/2021	590.263	1.6	1.5	258652.349	13344641.71
~~2475~~	COT	Eastern Cottonwood	Populus deltoides	1	10.3	0	0	0	0	0	GOOD			2.9	9/8/2021	589.178	1.8	1.4	258660.175	13344651.39
~~2476~~	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			4.8	9/8/2021	587.383	2.2	1.8	258689.127	13344662.39
~~2477~~	SILM	Silver Maple	Acer saccharinum	1	12.9	0	0	0	0	0	GOOD			2.9	9/8/2021	596.018	2.4	2.8	258710.461	13344633.34
~~2478~~	COT	Eastern Cottonwood	Populus deltoides	1	8.3	0	0	0	0	0	GOOD			2.4	9/8/2021	587.938	1.8	1.4	258713.143	13344629.3
~~2479~~	COT	Eastern Cottonwood	Populus deltoides	1	22.7	0	0	0	0	0	GOOD			2.8	9/8/2021	589.683	2.3	2	258705.483	13344583.32
2480	BLKC	Black Cherry	Prunus serotina	1	8	0	0	0	0	0	GOOD			2.6	9/8/2021	589.844	1.9	1.4	259080.153	13344757.66
2481	COT	Eastern Cottonwood	Populus deltoides	1	18.5	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	3.8	9/8/2021	590.313	1.7	1.5	259103.6	13344728.63
2482	COT	Eastern Cottonwood	Populus deltoides	1	17.1	0	0	0	0	0	GOOD			2.4	9/8/2021	587.709	2.1	1.7	259158.312	13344755.38
2483	COT	Eastern Cottonwood	Populus deltoides	1	15.6	0	0	0	0	0	GOOD			2.6	9/8/2021	584.504	1.7	1.3	259142.926	13344776.51
2484	COT	Eastern Cottonwood	Populus deltoides	1	11.4	0	0	0	0	0	GOOD			2.8	9/8/2021	601.448	4.5	3.9	259137.867	13344788.58
2485	COT	Eastern Cottonwood	Populus deltoides	1	11.6	0	0	0	0	0	GOOD			3.3	9/8/2021	606.789	7.1	8.9	259127.941	13344767.73
2486	COT	Eastern Cottonwood	Populus deltoides	1	17.4	0	0	0	0	0	GOOD			4	9/8/2021	594.644	5.7	4.4	259115.934	13344788.33
2487	COT	Eastern Cottonwood	Populus deltoides	1	14.4	0	0	0	0	0	GOOD			3.4	9/8/2021	589.588	2.9	2.1	259135.321	13344814.54
2488	COT	Eastern Cottonwood	Populus deltoides	1	12.9	0	0	0	0	0	GOOD			2.9	9/8/2021	583.419	1.7	1.6	259137.329	13344802.56
2489	COT	Eastern Cottonwood	Populus deltoides	1	16.7	0	0	0	0	0	GOOD			4.2	9/8/2021	585.51	2.1	1.6	259150.453	13344786.34
2490	COT	Eastern Cottonwood	Populus deltoides	1	19.1	0	0	0	0	0	GOOD			3.8	9/8/2021	580.714	2	1.4	259162.698	13344794.73
2491	COT	Eastern Cottonwood	Populus deltoides	1	19.8	0	0	0	0	0	GOOD			3.2	9/8/2021	592.345	1.8	1.5	259171.239	13344803.59
2492	COT	Eastern Cottonwood	Populus deltoides	1	14.6	0	0	0	0	0	GOOD			2.8	9/8/2021	590.331	3	2.6	259164.667	13344821.88
2493	COT	Eastern Cottonwood	Populus deltoides	1	8.5	0	0	0	0	0	GOOD			3.6	9/8/2021	590.083	2.1	1.6	259166.901	13344831.76
2494	COT	Eastern Cottonwood	Populus deltoides	1	19.2	0	0	0	0	0	GOOD			4	9/8/2021	586.126	2	1.4	259163.787	13344847.99
2495	COT	Eastern Cottonwood	Populus deltoides	1	16	0	0	0	0	0	GOOD			3.3	9/8/2021	613.568	2.7	2.3	259164.354	13344842.31
2496	COT	Eastern Cottonwood	Populus deltoides	1	15.9	0	0	0	0	0	GOOD			3.7	9/8/2021	588.272	2.2	1.8	259169.231	13344865.88
2497	COT	Eastern Cottonwood	Populus deltoides	1	16.3	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	15.5	9/8/2021	594.085	2.2	1.5	259173.776	13344872.33
2498	COT	Eastern Cottonwood	Populus deltoides	1	21.2	0	0	0	0	0	GOOD			3.9	9/8/2021	586.721	2.7	1.8	259180.616	13344865.46
2499	COT	Eastern Cottonwood	Populus deltoides	1	8	14.1	0	0	0	0	GOOD			3.3	9/8/2021	596.071	2.3	1.5	259150.716	13344826.96
2500	COT	Eastern Cottonwood	Populus deltoides	1	10.8	0	0	0	0	0	GOOD			2.9	9/8/2021	590.595	1.9	1.5	259149.321	13344822.27
2501	BLKW	Black Walnut	Juglans nigra	1	11.1	0	0	0	0	0	GOOD			3	9/9/2021	590.569	2	1.3	259206.089	13344864.33
2502	SILM	Silver Maple	Acer saccharinum	1	10.1	0	0	0	0	0	GOOD			2.9	9/9/2021	589.765	3.9	2.4	259203.117	13344873.98
2503	SILM	Silver Maple	Acer saccharinum	1	9.8	0	0	0	0	0	GOOD			3.5	9/9/2021	591.631	2.2	1.6	259202.447	13344870.25
2504	COT	Eastern Cottonwood	Populus deltoides	1	16.1	15.3	12.4	0	0	0	GOOD			2.6	9/9/2021	591.503	2.6	1.6	259186.397	13344893.36
2505	COT	Eastern Cottonwood	Populus deltoides	1	12.3	0	0	0	0	0	GOOD			2.4	9/9/2021	581.257	2.2	1.4	259174.369	13344886.95
2506	COT	Eastern Cottonwood	Populus deltoides	1	17.2	0	0	0	0	0	GOOD			4.1	9/9/2021	585.198	3.2	2.1	259182.695	13344891.15
2507	COT	Eastern Cottonwood	Populus deltoides	1	15.2	0	0	0	0	0	GOOD			2.7	9/9/2021	584.844	2.8	2.2	259172.878	13344898.71
2508	COT	Eastern Cottonwood	Populus deltoides	1	16.2	0	0	0	0	0	GOOD			3.1	9/9/2021	588.102	4.4	3	259191.085	13344904.5
2509	COT	Eastern Cottonwood	Populus deltoides	1	14.5	0	0	0	0	0	GOOD		SECOND STEM DEAD PBT	3.6	9/9/2021	593.472	2	1.5	259191.834	13344915.55
2510	COT	Eastern Cottonwood	Populus deltoides	1	8.9	0	0	0	0	0	GOOD			2.8	9/9/2021	584.761	1.8	1.1	259206.975	13344912.73
2511	COT	Eastern Cottonwood	Populus deltoides	1	13.6	0	0	0	0	0	GOOD			2.6	9/9/2021	584.073	1.8	1.2	259203.594	13344919.32
2512	COT	Eastern Cottonwood	Populus deltoides	1	16.5	0	0	0	0	0	GOOD			2.9	9/9/2021	583.656	2.1	1.6	259197.227	13344917.02
2513	COT	Eastern Cottonwood	Populus deltoides	1	16	0	0	0	0	0	GOOD			3	9/9/2021	586.547	2.4	1.6	259192.825	13344922.19
2514	COT	Eastern Cottonwood	Populus deltoides	1	16.6	0	0	0	0	0	GOOD			2.8	9/9/2021	584.232	1.7	1.2	259180.899	13344915.24
2515	COT	Eastern Cottonwood	Populus deltoides	1	17.6	16	0	0	0	0	GOOD			3.2	9/9/2021	586.644	2.8	2.2	259173.972	13344924.37
2516	GASH	Green Ash	Fraxinus pennsylvanica	1	17.6	16.1	0	0	0	0	GOOD		STRUCTURE, Emerald Ash Borer	4.9	9/9/2021	581.927	3.1	2.3	259176.072	13344943.79
2517	COT	Eastern Cottonwood	Populus deltoides	1	17.6	0	0	0	0	0	DEAD	X	Peeling Bark, Cavity	2.7	9/9/2021	580.515	2.6	2	259188.844	13344969
2518	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			3	9/9/2021	591.76	2.8	1.8	259196.478	13344978.75
2519	COT	Eastern Cottonwood	Populus deltoides	1	19.1	0	0	0	0	0	GOOD			2.9	9/9/2021	587.525	3.2	2.5	259203.654	13344976.09
2520	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			2.8	9/9/2021	585.344	2	1.4	259196.552	13344979.17
2521	COT	Eastern Cottonwood	Populus deltoides	1	16.4	0	0	0	0	0	GOOD			2.9	9/9/2021	591.744	3.7	2.6	259195.396	13344980.27
2522	COT	Eastern Cottonwood	Populus deltoides	1	10.3	0	0	0	0	0	GOOD			2.9	9/9/2021	592.86	2	1.3	259219.25	13344986.2
2523	SILM	Silver Maple	Acer saccharinum	1	11.9	0	0	0	0	0	GOOD			4	9/9/2021	586.602	1.9	1.3	259214.781	13344985.45
2524	SILM	Silver Maple	Acer saccharinum	1	8	0	0	0	0	0	GOOD			3.1	9/9/2021	589.517	7.3	6.4	259217.843	13345007.18
2525	COT	Eastern Cottonwood	Populus deltoides	1	17.6	0	0	0	0	0	GOOD			2.4	9/9/2021	596.346	5.1	3.9	259220.524	13345000.51
2526	COT	Eastern Cottonwood	Populus deltoides	1	17.8	0	0	0	0	0	GOOD			2.9	9/9/2021	586.784	1.9	1.5	259210.275	13345001.31
2527	COT	Eastern Cottonwood	Populus deltoides	1	15.2	0	0	0	0	0	GOOD			3	9/9/2021	601.207	3.1	2.5	259202.003	13345008.67
2528	COT	Eastern Cottonwood	Populus deltoides	1	8.1	0	0	0	0	0	POOR	X	Peeling Bark, Cavity	2.9	9/9/2021	595.801	2.2	1.7	259204.449	13345000.51
2529	COT	Eastern Cottonwood	Populus deltoides	1	15.5	0	0	0	0	0	GOOD			2.9	9/9/2021	589.242	2.5	2.2	259212.04	13345014.4
2530	COT	Eastern Cottonwood	Populus deltoides	1	13	0	0	0	0	0	GOOD			2.8	9/9/2021	591.004	3.1	2.2	259214.675	13345022.35
2531	COT	Eastern Cottonwood	Populus deltoides	1	12.1	0	0	0	0	0	GOOD			2.6	9/9/2021	589.082	3.4	2.9	259210.431	13345031.18
2532	COT	Eastern Cottonwood	Populus deltoides	1	14.2	10.5	0	0	0	0	GOOD			3.1	9/9/2021	610.375	4.1	3.7	259220.784	13345036.25
2533	COT	Eastern Cottonwood	Populus deltoides	1	16.3	0	0	0	0	0	GOOD			2.9	9/9/2021	591.295	3	2.7	259223.898	13345024.48
2534	COT	Eastern Cottonwood	Populus deltoides	1	14.1	0	0	0	0	0	GOOD			3.1	9/9/2021	595.783	2.5	2.2	259237.469	13345015.17
2535	COT	Eastern Cottonwood	Populus deltoides	1	14.9	0	0	0	0	0	GOOD			2.5	9/9/2021	584.339	1.9	2	259235.861	13345028.73
2536	COT	Eastern Cottonwood	Populus deltoides	1	14.4	13.3	0	0	0	0	GOOD			2.9	9/9/2021	593.568	2.1	1.9	259242.737	13345033.57
2537	COT	Eastern Cottonwood	Populus deltoides	1	12.5	0	0	0	0	0	GOOD			2.7	9/9/2021	583.681	1.7	1.6	259241.649	13345037
2538	COT	Eastern Cottonwood	Populus deltoides	1	17.7	9.3	0	0	0	0	GOOD			5.8	9/9/2021	589.767	1.9	1.7	259250.503	13345032.58
2539	AELM	American elm	Ulmus americana	1	8	0	0	0	0	0	GOOD			2.1	9/9/2021	591.277	2.1	1.6	259225.69	13345031.17
2540	COT	Eastern Cottonwood	Populus deltoides	1	17.5	0	0	0	0	0	GOOD			3	9/9/2021	583.577	1.8	1.6	259228.242	13345042.39
2541	COT	Eastern Cottonwood	Populus deltoides	1	12.9	0	0	0	0	0	GOOD			2.6	9/9/2021	594.398	7.5	6.5	259233.321	13345038.95
2542	COT	Eastern Cottonwood	Populus deltoides	1	14.8	0	0	0	0	0	GOOD			3	9/9/2021	589.504	2	1.6	259240.201	13345054.12
2543	COT	Eastern Cottonwood	Populus deltoides	1	14.2	0	0	0	0	0	GOOD			2.4	9/9/2021	581.311	1.8	2	259247.947	13345060.28
2544	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			4.7	9/9/2021	586.61	1.9	1.9	259248.316	13345047.39
2545	COT	Eastern Cottonwood	Populus deltoides	1	24.3	0	0	0	0	0	GOOD			2.6	9/9/2021	593.5	3.2	2.9	259253.347	13345082.1
2546	COT	Eastern Cottonwood	Populus deltoides	1	19.5	0	0	0	0	0	GOOD			2.8	9/9/2021	582.363	1.9	1.9	259252.264	13345097.31
2547	COT	Eastern Cottonwood	Populus deltoides	1	22.6	0	0	0	0	0	GOOD			2.6	9/9/2021	575.135	5.5	4.7	259283.036	13345113.16
2548	COT	Eastern Cottonwood	Populus deltoides	1	23.9	0	0	0	0	0	GOOD			3.1	9/9/2021	586.071	2.8	2.6	259266.95	13345172.81
2549	AELM	American elm	Ulmus americana	1	8.9	0	0	0	0	0	GOOD			2.5	9/9/2021	589.234	2	1.8	259264.503	13345180.25
2550	COT	Eastern Cottonwood	Populus deltoides	1	19.6	18.8	0	0	0	0	GOOD			3	9/9/2021	584.954	3.1	1.9	259263.749	13345185.5
2551	COT	Eastern Cottonwood	Populus deltoides	1	19.8	0	0	0	0	0	GOOD			2.2	9/9/2021	579.273	2.3	2	259280.783	13345184.44
2552	SILM	Silver Maple	Acer saccharinum	1	11.3	0	0	0	0	0	GOOD			2.9	9/9/2021	585.02	1.8	1.9	259241.343	13345217.09
2553	COT	Eastern Cottonwood	Populus deltoides	1	24.8	0	0	0	0	0	GOOD			2.6	9/9/2021	567.501	4.5	3.5	259268.576	13345280.56
2554	COT	Eastern Cottonwood	Populus deltoides	1	8	0	0	0	0	0	GOOD			2.5	9/9/2021	576.269	1.8	1.3	259325.659	13345312.36
2555	COT	Eastern Cottonwood	Populus deltoides	1	11.9	0	0	0	0	0	GOOD			2.7	9/9/2021	583.306	2.4	2.2	259257.267	13344917.94
2556	HACB	Hackberry	Celtis occidentalis	1	9.5	0	0	0	0	0	POOR		STRUCTURE	2.6	9/9/2021	591.153	1.7	1.2	258170.174	13346217.02
2557	BLKW	Black Walnut	Juglans nigra	1	17.7	0	0	0	0	0	GOOD			2.5	9/9/2021	585.69	1.8	1.5	258189.549	13346220.89
2558	SIBE	Siberian elm	Ulmus pumila	1	12.6	12.2	0	0	0	0	GOOD			2.8	9/9/2021	585.629	5.3	3.6	258217.893	13346189.82
2559	BLKW	Black Walnut	Juglans nigra	1	8.2	0	0	0	0	0	GOOD			2.7	9/9/2021	595.982	1.9	1.4	258237.897	13346181.57
2560	HACB	Hackberry	Celtis occidentalis	1	9.1	0	0	0	0	0	GOOD			141.3	9/9/2021	581.764	2.4	1.6	258269.759	13346176.22
2561	HACB	Hackberry	Celtis occidentalis	1	8.7	0	0	0	0	0	GOOD			4.1	9/9/2021	591.699	6.1	4.2	258282.482	13346182.62
2562	BLKW	Black Walnut	Juglans nigra	1	13.2	0	0	0	0	0	GOOD			2.5	9/9/2021	593.088	7	4.3	258287.863	13346174.39
2563	MUL	White Mulberry	Morus alba	1	9.2	0	0	0	0	0	POOR		Structure	2.9	9/9/2021	590.25	4.8	3	258326.024	13346155.33
2564	NORWM	Norway Maple	Acer platanoides	1	11.3	0	0	0	0	0	GOOD			3.1	9/9/2021	588.042	1.9	1.3	258329.887	13346153.65
2565	HACB	Hackberry	Celtis occidentalis	1	11.5	0	0	0	0	0	GOOD			2.5	9/9/2021	597.839	2	1.2	258497.638	13346132.51
2566	HACB	Hackberry	Celtis occidentalis	1	18.2	0	0	0	0	0	GOOD			3	9/9/2021	593.296	2.1	1.6	258524.997	13346130.4
2567	NORWM	Norway Maple	Acer platanoides	1	8.1	0	0	0	0	0	GOOD			2.7	9/9/2021	596.96	2.8	1.7	258548.866	13346118.09
2568	AELM	American elm	Ulmus americana	1	9.4	0	0	0	0	0	GOOD			2.8	9/9/2021	607.463	5	2.8	258569.44	13346121.15
2569	AELM	American elm	Ulmus americana	1	10.5	0	0	0	0	0	GOOD			2.5	9/9/2021	589.174	2.4	1.5	258570.221	13346122.57
2570	HACB	Hackberry	Celtis occidentalis	1	10	0	0	0	0	0	GOOD			2.7	9/9/2021	590.6	3	2.2	258588.819	13346127.29
2571	COT	Eastern Cottonwood	Populus deltoides	1	15.8	0	0	0	0	0	GOOD			3.4	9/9/2021	586.513	2.5	1.6	258615.267	13346098.75
2572	BLKW	Black Walnut	Juglans nigra	1	17.2	0	0	0	0	0	GOOD			6	9/9/2021	584.225	2.7	1.8	258638.543	13346132.38
2573	WASH	White Ash	Fraxinus americana	1	8.4	0	0	0	0	0	POOR		STRUCTURE, Emerald Ash Borer	2.8	9/9/2021	587.121	2.1	1.9	258671.494	13346124.49
2574	BLKL	Black Locust	Robinia pseudoacacia	1	12.1	0	0	0	0	0	GOOD			3.1	9/9/2021	599.02	4	2.2	258705.547	13346093.17
2575	BLKW	Black Walnut	Juglans nigra	1	8.2	0	0	0	0	0	GOOD			3.6	9/9/2021	577.766	4.3	3.4	258808.525	13346120.27
~~2576~~	BOXE	Box-Elder	Acer negundo	1	8.1	0	0	0	0	0	GOOD			2.8	9/9/2021	606.251	7.5	4.7	258121.094	13345136.21
~~2577~~	BLKL	Black Locust	Robinia pseudoacacia	1	8.9	0	0	0	0	0	GOOD			2.8	9/9/2021	594.863	2.6	1.6	258099.019	13345112.37
2578	BOXE	Box-Elder	Acer negundo	1	9.1	0	0	0	0	0	GOOD			2.7	9/9/2021	597.636	1.8	1.2	258064.723	13345134.92
2579	BOXE	Box-Elder	Acer negundo	1	11.3	0	0	0	0	0	GOOD			3	9/9/2021	599.254	2.7	1.8	257967.507	13345151.64
~~2580~~	AELM	American elm	Ulmus americana	1	10.5	0	0	0	0	0	GOOD			3	9/9/2021	596.557	1.8	1.4	257780.887	13345131.32
2581	COT	Eastern Cottonwood	Populus deltoides	1	20.6	18.2	13.4	0	0	0	GOOD			3.2	9/9/2021	613.466	1.7	1.4	257708.57	13345152.82
2582	AELM	American elm	Ulmus americana	1	10.6	10.2	8	0	0	0	GOOD			2.9	9/9/2021	602.558	2.4	1.6	257686.841	13345173.02
2583	COT	Eastern Cottonwood	Populus deltoides	1	18.2	17.8	0	0	0	0	GOOD			2.9	9/9/2021	582.176	2.8	2	257677.198	13345153.93
~~2584~~	BOXE	Box-Elder	Acer negundo	1	9.8	9.4	0	0	0	0	GOOD			2.9	9/9/2021	606.138	3	2.2	257647.721	13345075.89
~~2585~~	BLKC	Black Cherry	Prunus serotina	1	8.5	0	0	0	0	0	GOOD			2.3	9/9/2021	599.95	1.9	1.4	257597.148	13345090.18
~~2586~~	SIBE	Siberian elm	Ulmus pumila	1	8.2	0	0	0	0	0	GOOD			2.9	9/9/2021	599.903	1.8	1.4	257564.502	13345136.71
2587	BOXE	Box-Elder	Acer negundo	1	16.6	13.7	0	0	0	0	GOOD			5.3	9/9/2021	600.242	2	1.8	257467.528	13345194.62

PBHT - Potential Bat Habitat Tree
Data Dictionary Name: UFORE Inventory

TREE REMOVAL LEGEND

~~00~~ INDICATES EXISTING TREE TO BE REMOVED

00 INDICATES EXISTING TREE TO REMAIN

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

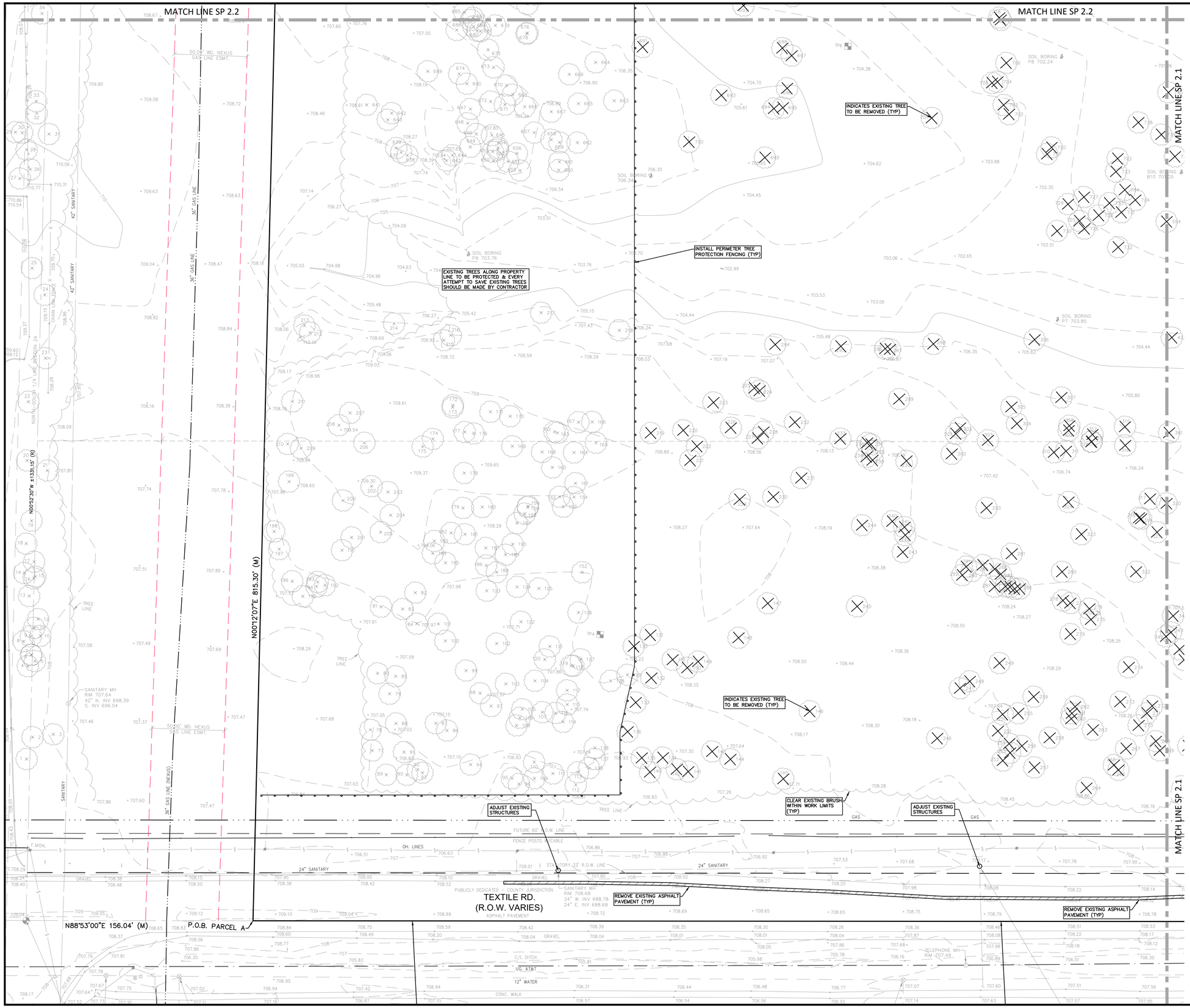
SHEET
Tree List

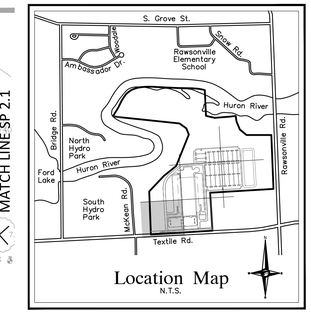
811 Know what's below Call before you dig.

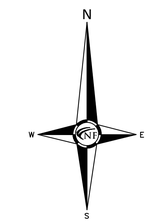
DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: M. Carnaghi
DESIGNED BY:
APPROVED BY: K. Navaroli
DATE: September 24, 2021
SCALE: N.T.S.

NFE JOB NO. M278-01
SHEET NO. SP 1.29







TOPOGRAPHIC SURVEY NOTES

ALL ELEVATIONS ARE EXISTING ELEVATIONS, UNLESS OTHERWISE NOTED.

UTILITY LOCATIONS WERE OBTAINED FROM MUNICIPAL OFFICIALS AND RECORDS OF UTILITY COMPANIES, AND NO GUARANTEE CAN BE MADE TO THE COMPLETENESS, OR EXACTNESS OF LOCATION.

THIS SURVEY MAY NOT SHOW ALL EASEMENTS OF RECORD UNLESS AN UPDATED TITLE POLICY IS FURNISHED TO THE SURVEYOR BY THE OWNER

LEGEND

- MANHOLE
- HYDRANT
- GATE VALVE
- MANHOLE
- CATCH BASIN
- UTILITY POLE
- GUY POLE
- GUY WIRE
- 12" MAPLE
- EXISTING SANITARY SEWER
- EXISTING SAN. CLEAN OUT
- EXISTING WATER MAIN
- EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- EXISTING UTILITY TO BE REMOVED
- EXISTING UTILITY TO BE ABANDONED
- INDICATES EXISTING TREE TO BE REMOVED
- INDICATES AREAS OF PAVEMENT, BUILDINGS, ETC. TO BE REMOVED

NF ENGINEERS

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LAND SURVEYORS
LAND PLANNERS

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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
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8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Demolition Plan

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
J. Lawrey

DESIGNED BY:
B. Brickel

APPROVED BY:
B. Brickel

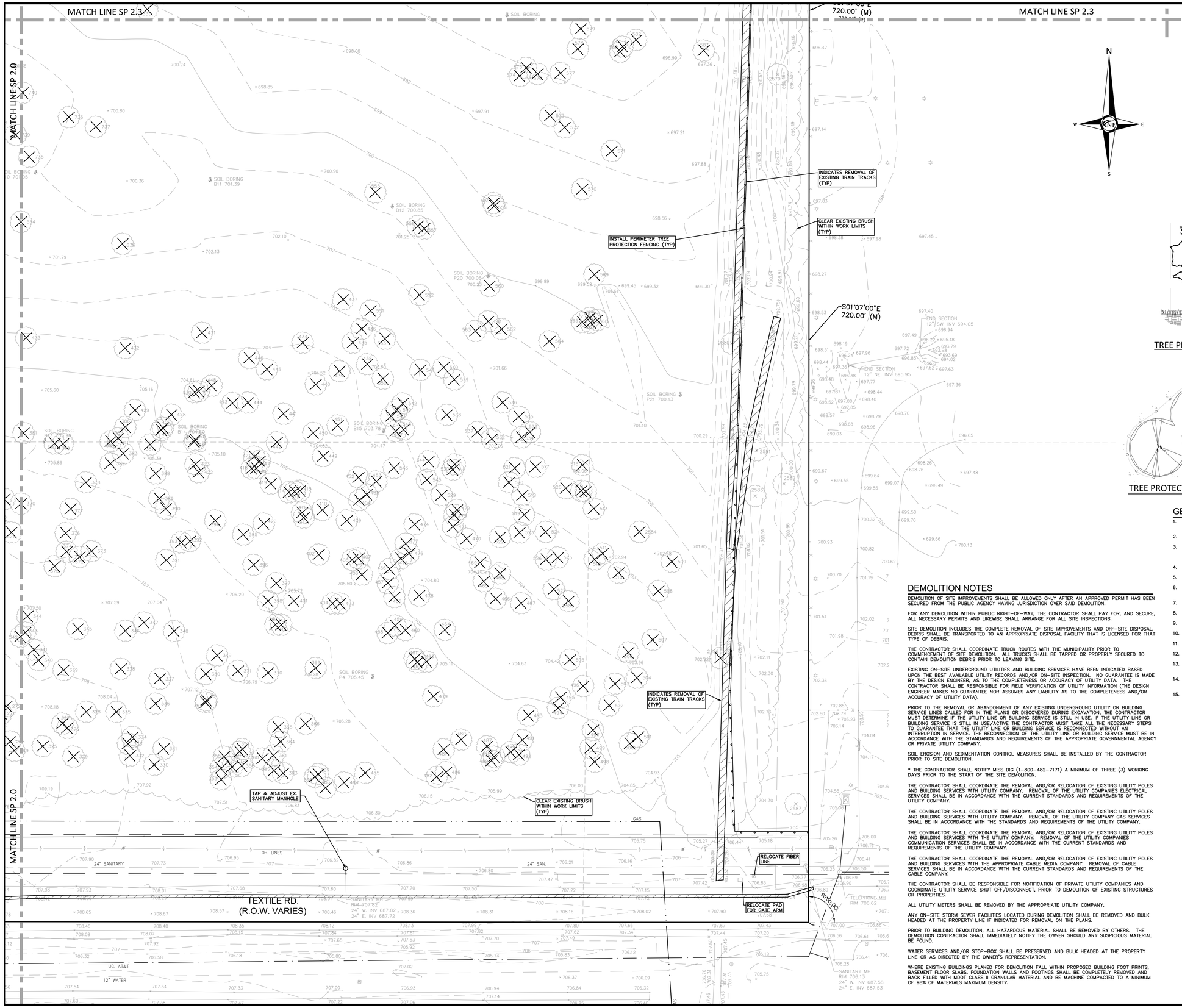
DATE:
September 24, 2021

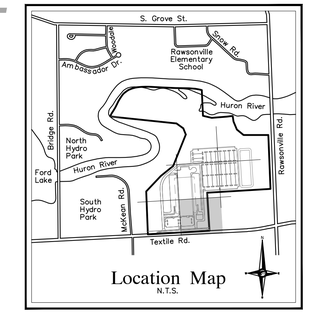
SCALE: 1" = 30'

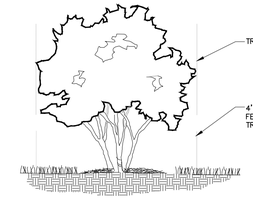
30 15 0 15 30 45

NFE JOB NO. M278-01

SHEET NO. SP 2.0

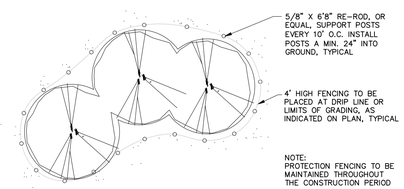






TREE PROTECTION DETAIL-SECTION

NTS



TREE PROTECTION DETAIL-PLAN

NTS

GENERAL TREE PROTECTION NOTES

1. APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL THE IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
2. ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE PRESERVED.
3. NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN, INCLUDING BUT NOT LIMITED TO, PLACING SOLVENTS, BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS WITHIN THE DRIP LINE.
4. WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL REMAIN OUTSIDE OF THE DRIPLINES.
5. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY TREE, SCHEDULED TO REMAIN.
6. ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCING.
7. SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES OF PROTECTED TREES.
8. TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED.
9. ROOT ZONES OF PROTECTED TREES SHOULD BE SURROUNDED WITH RIGIDLY STAKED FENCING.
10. THE PARKING OF IDLE AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER THE DRIP LINE OF PROTECTED TREES.
11. THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED.
12. ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TREES TO REAMIN.
13. THE GRUBBING OF UNDERSTORY VEGETATION WITHIN CONSTRUCTION AREAS SHOULD BE CLEARED BY CUTTING VEGETATION AT THE GROUND WITH A CHAIN SAW OR MINIMALLY WITH A HYDRO-AXE.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT PER ORDINANCE GUIDELINES, FOR THE DAMAGE OR REMOVAL OF ANY TREE DESIGNATED TO REMAIN.
15. TREES TO BE REMOVED SHALL BE FIELD VERIFIED, EVALUATED AND FLAGGED FOR REMOVAL, BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.

DEMOLITION NOTES

DEMOLITION OF SITE IMPROVEMENTS SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE PUBLIC AGENCY HAVING JURISDICTION OVER SAID DEMOLITION.

FOR ANY DEMOLITION WITHIN PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR, AND SECURE, ALL NECESSARY PERMITS AND LIKEWISE SHALL ARRANGE FOR ALL SITE INSPECTIONS.

SITE DEMOLITION INCLUDES THE COMPLETE REMOVAL OF SITE IMPROVEMENTS AND OFF-SITE DISPOSAL. DEBRIS SHALL BE TRANSPORTED TO AN APPROPRIATE DISPOSAL FACILITY THAT IS LICENSED FOR THAT TYPE OF DEBRIS.

THE CONTRACTOR SHALL COORDINATE TRUCK ROUTES WITH THE MUNICIPALITY PRIOR TO COMMENCEMENT OF SITE DEMOLTION. ALL TRUCKS SHALL BE TARPED OR PROPERLY SECURED TO CONTAIN DEMOLITION DEBRIS PRIOR TO LEAVING SITE.

EXISTING ON-SITE UNDERGROUND UTILITIES AND BUILDING SERVICES HAVE BEEN INDICATED BASED UPON THE BEST AVAILABLE UTILITY RECORDS AND/OR ON-SITE INSPECTION. NO GUARANTEE IS MADE BY THE DESIGN ENGINEER, AS TO THE COMPLETENESS OR ACCURACY OF UTILITY DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY INFORMATION (THE DESIGN ENGINEER MAKES NO GUARANTEE NOR ASSUMES ANY LIABILITY AS TO THE COMPLETENESS AND/OR ACCURACY OF UTILITY DATA).

PRIOR TO THE REMOVAL OR ABANDONMENT OF ANY EXISTING UNDERGROUND UTILITY OR BUILDING SERVICE LINES CALLED FOR IN THE PLANS OR DISCOVERED DURING EXCAVATION, THE CONTRACTOR MUST DETERMINE IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE. IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE/ACTIVE THE CONTRACTOR MUST TAKE ALL THE NECESSARY STEPS TO GUARANTEE THAT THE UTILITY LINE OR BUILDING SERVICE IS RECONNECTED WITHOUT AN INTERRUPTION IN SERVICE. THE RECONNECTION OF THE UTILITY LINE OR BUILDING SERVICE MUST BE IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE APPROPRIATE GOVERNMENTAL AGENCY OR PRIVATE UTILITY COMPANY.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO SITE DEMOLITION.

* THE CONTRACTOR SHALL NOTIFY MISS DIG (1-800-482-7171) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF THE SITE DEMOLITION.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH UTILITY COMPANY. REMOVAL OF THE UTILITY COMPANIES ELECTRICAL SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.

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THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH THE UTILITY COMPANY. REMOVAL OF THE UTILITY COMPANIES COMMUNICATION SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH THE APPROPRIATE CABLE MEDIA COMPANY. REMOVAL OF CABLE SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE CABLE COMPANY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF PRIVATE UTILITY COMPANIES AND COORDINATE UTILITY SERVICE SHUT OFF/DISCONNECT, PRIOR TO DEMOLITION OF EXISTING STRUCTURES OR PROPERTIES.

ALL UTILITY METERS SHALL BE REMOVED BY THE APPROPRIATE UTILITY COMPANY.

ANY ON-SITE STORM SEWER FACILITIES LOCATED DURING DEMOLITION SHALL BE REMOVED AND BULK HEADED AT THE PROPERTY LINE IF INDICATED FOR REMOVAL ON THE PLANS.

PRIOR TO BUILDING DEMOLITION, ALL HAZARDOUS MATERIAL SHALL BE REMOVED BY OTHERS. THE DEMOLITION CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUSPICIOUS MATERIAL BE FOUND.

WATER SERVICES AND/OR STOP-BOX SHALL BE PRESERVED AND BULK HEADED AT THE PROPERTY LINE OR AS DIRECTED BY THE OWNER'S REPRESENTATION.

WHERE EXISTING BUILDINGS PLANED FOR DEMOLITION FALL WITHIN PROPOSED BUILDING FOOT PRINTS, BASEMENT FLOOR SLABS, FOUNDATION WALLS AND FOOTINGS SHALL BE COMPLETELY REMOVED AND BACK FILLED WITH MDOT CLASS II GRANULAR MATERIAL AND BE MACHINE COMPACTED TO A MINIMUM OF 98% OF MATERIALS MAXIMUM DENSITY.

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- EX. R. Y. CATCH BASIN
- UTILITY POLE, GUY POLE — EXISTING BURIED CABLES
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- LIGHT POLE
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- EXISTING UTILITY TO BE REMOVED
- EXISTING UTILITY TO BE ABANDONED
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Demolition Plan

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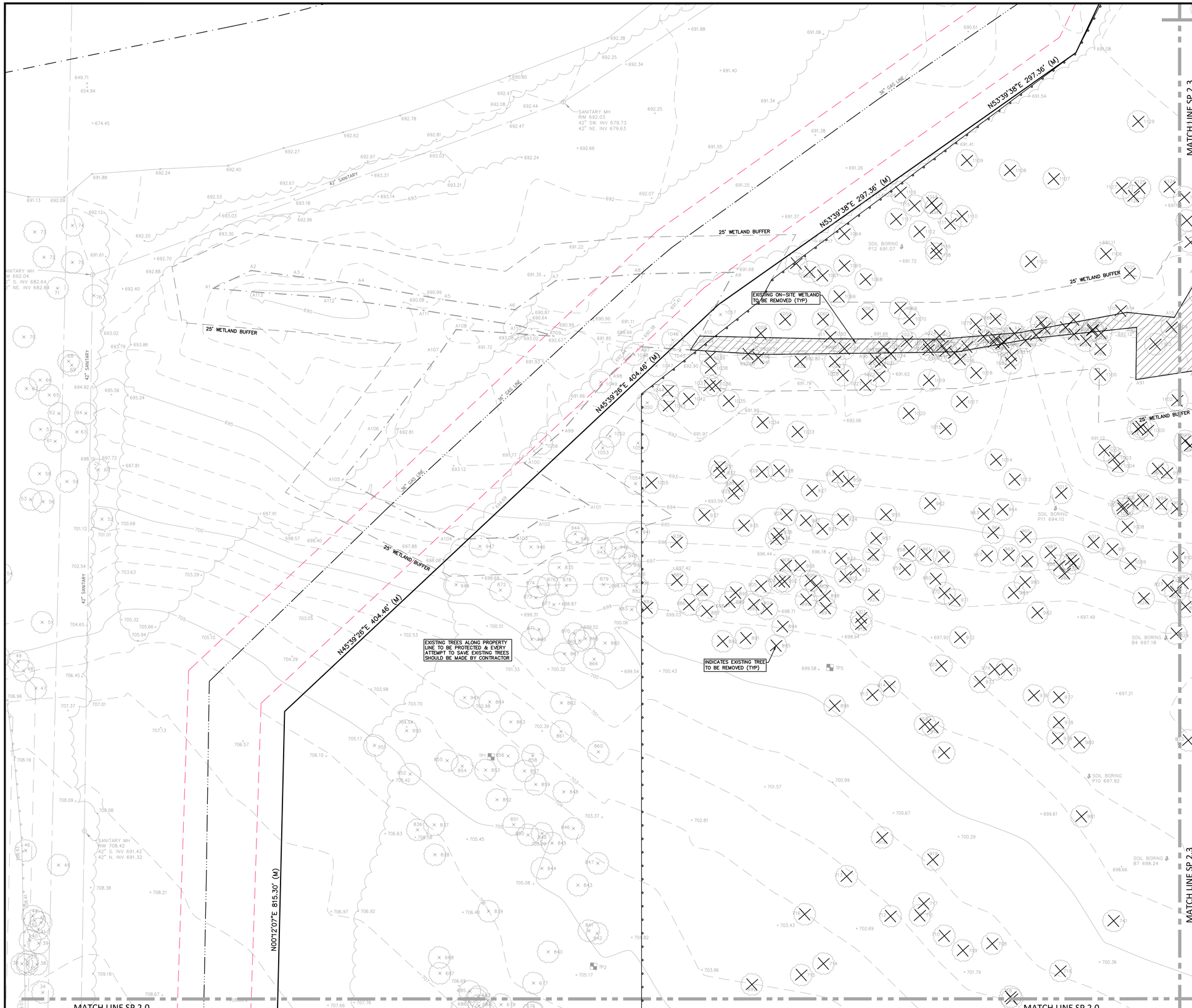
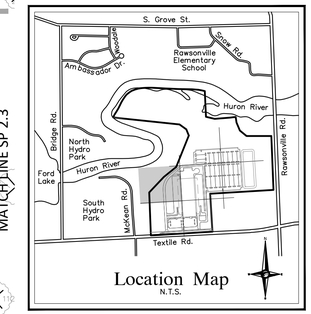
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 2.1





Location Map
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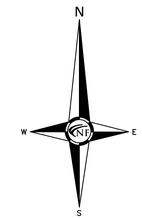

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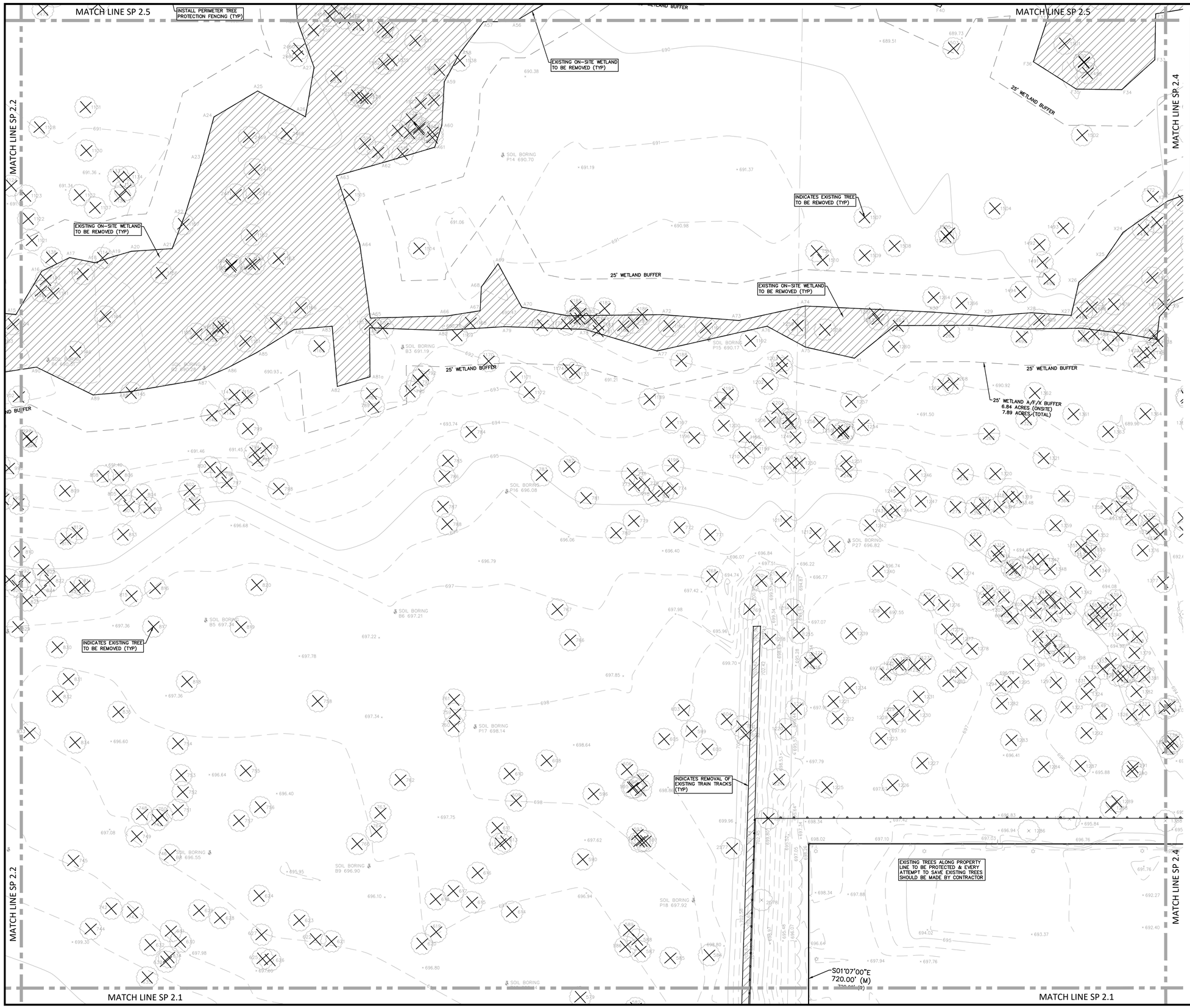

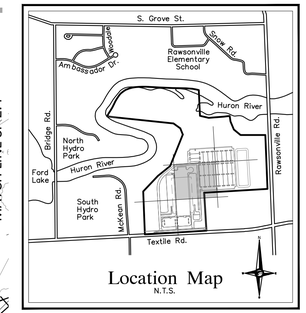

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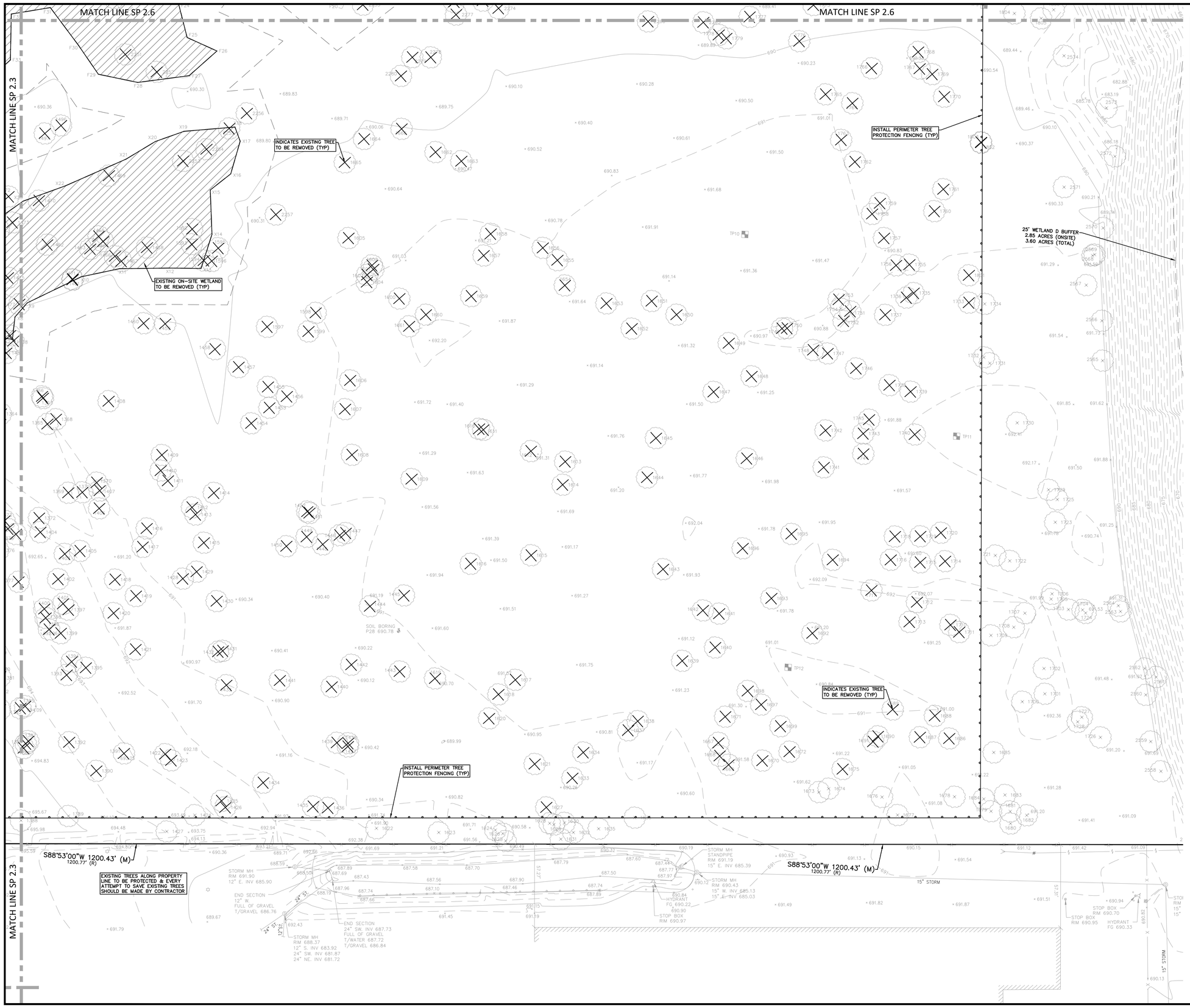

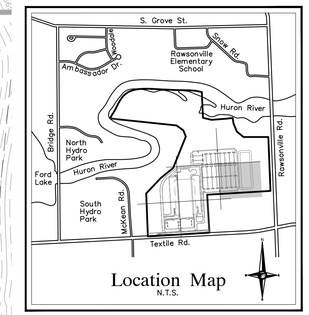

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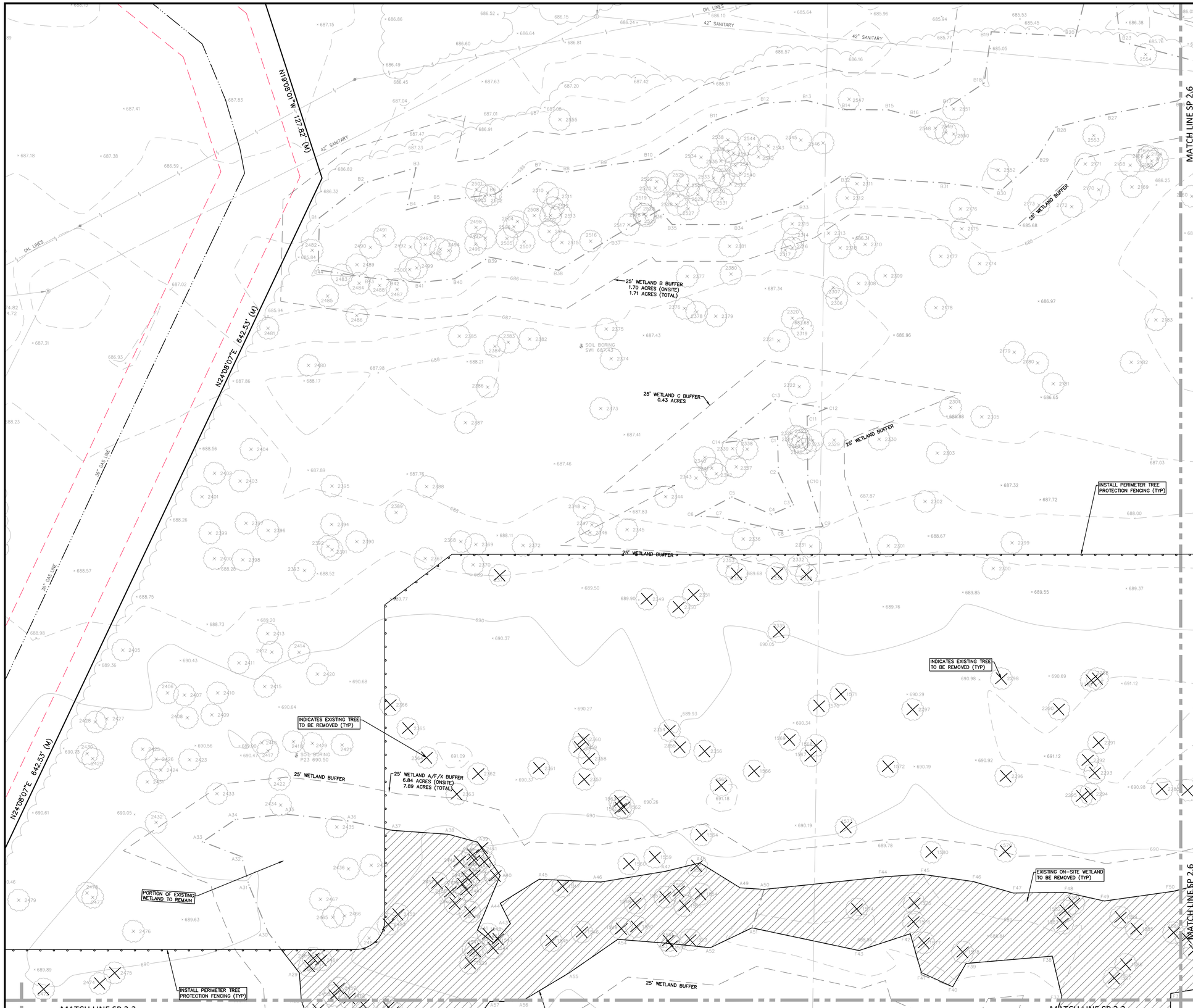

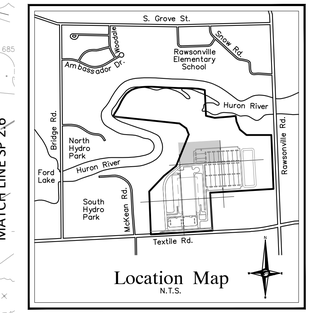

Location Map
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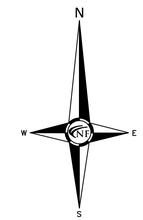

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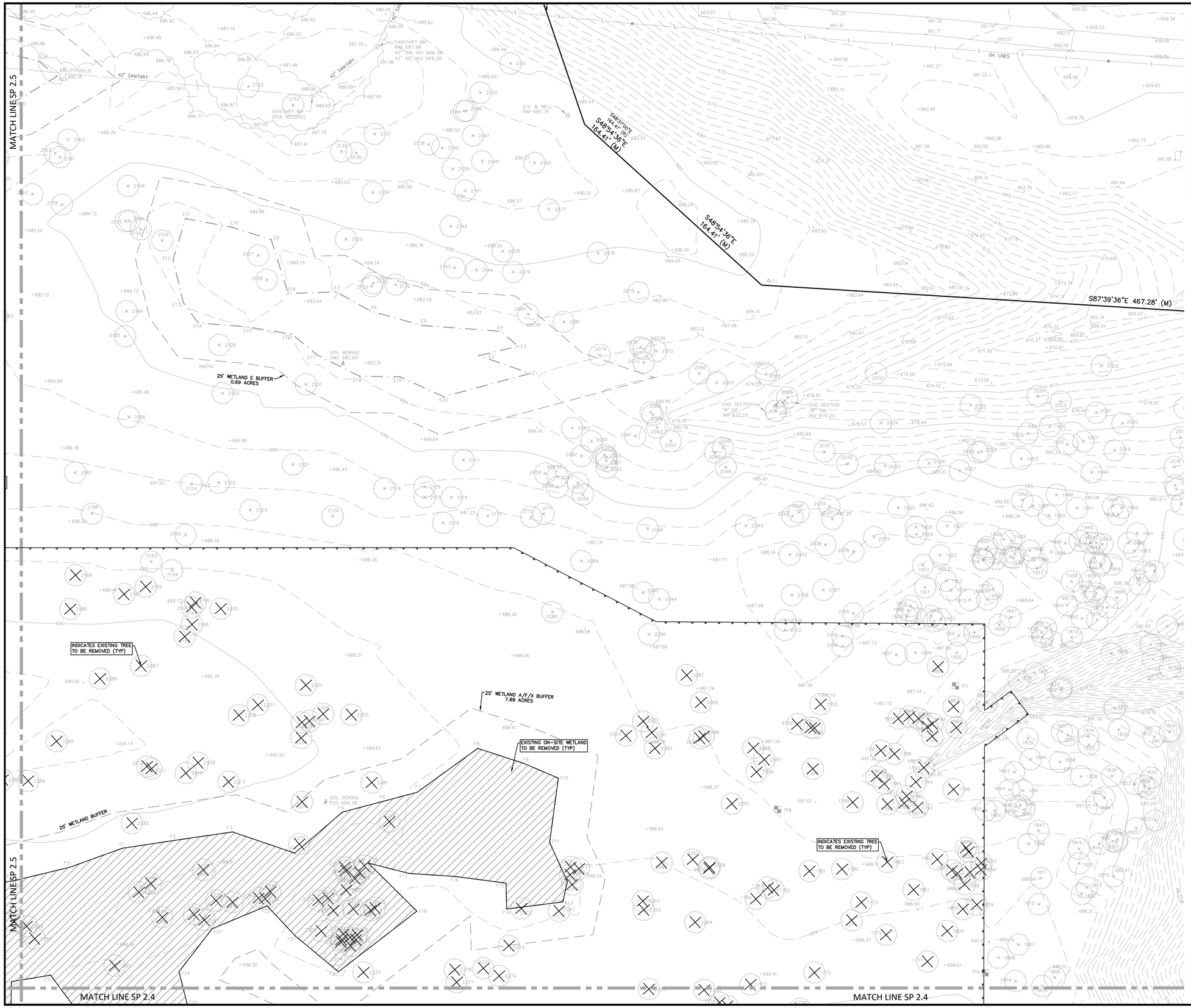

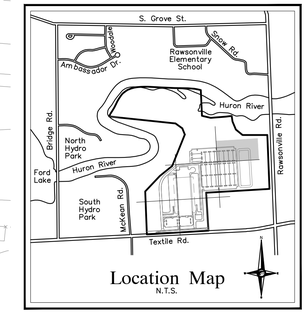

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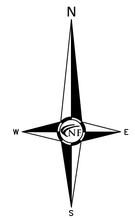

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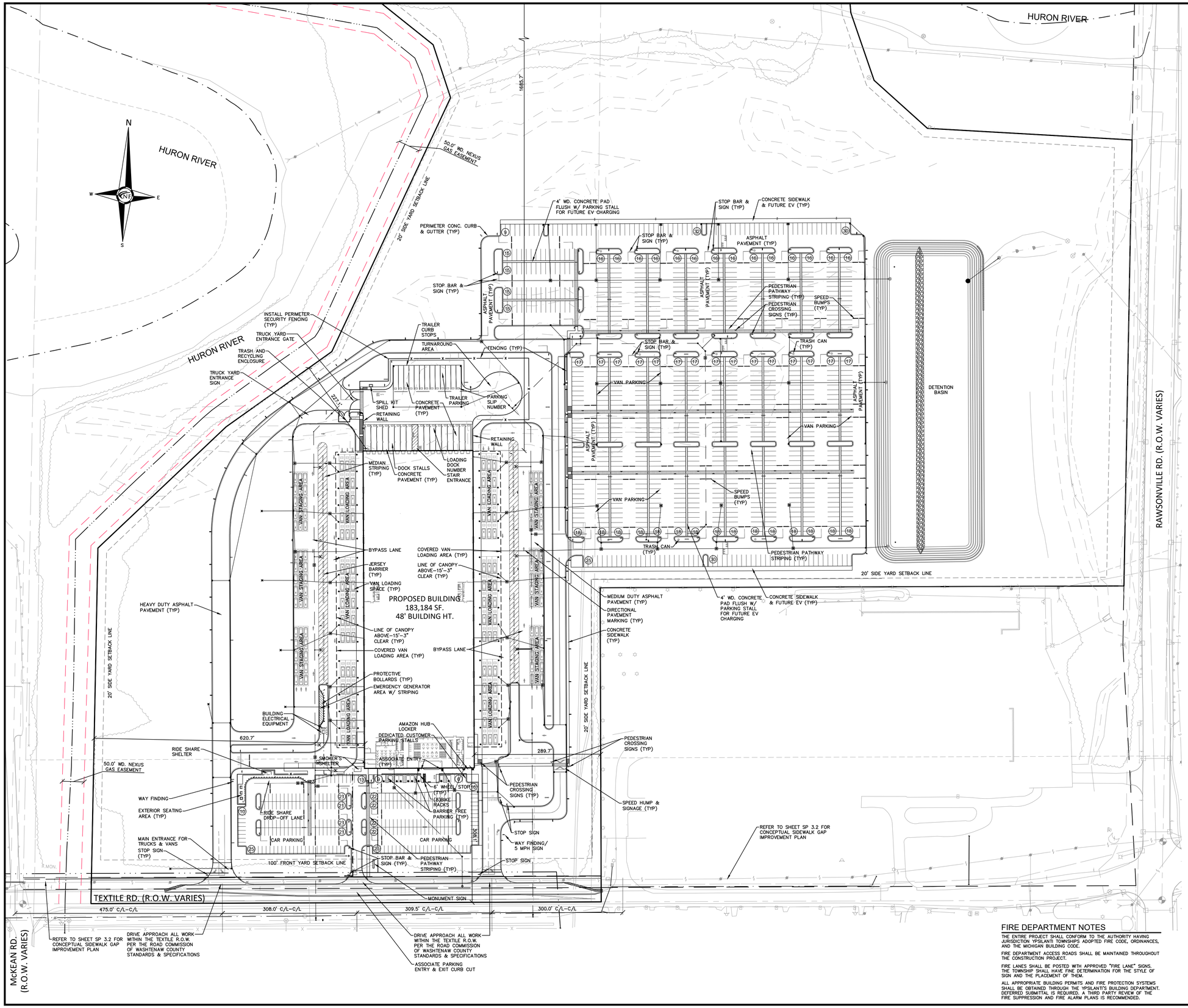
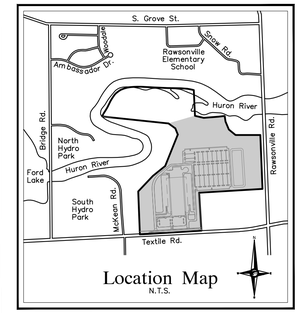
NFE JOB NO. M278-01
SHEET NO. SP 2.6





Location Map
N.T.S.

DIMENSIONING NOTE

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NOTES

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REFER TO SHEETS SP 4.0–SP 4.8 FOR PAVING & GRADING NOTES & DETAILS (TYP)

REFER TO SHEETS SP 5.0–SP 6.6 FOR DETAIL UTILITY NOTES, DETAILS & CALCULATIONS (TYP)

ALL EXTERIOR BUILDING–MOUNTED AND GROUND–MOUNTED LIGHT FIXTURES SHALL BE DIRECTED DOWNWARD AND USE "FULLY SHIELD CUT OFF" FIXTURES TO CONCEAL THE LIGHT SOURCE FROM ADJOINING PROPERTIES.

LOADING/UNLOADING NOTE

UNLOADING FOR THE DELIVERY STATION WILL BE ON THE NORTH OF THE BUILDING. LOADING WILL BE ON THE EAST & WEST SIDE OF THE BUILDING.

PARKING REQUIREMENTS (PER TWP)

OFFICE
1 SPACE PER EACH 250 SFT. OF GROSS FLOOR AREA

INDUSTRIAL
FIVE PLUS ONE FOR EVERY ONE EMPLOYEE IN THE LARGEST WORKING SHIFT, OR FIVE PLUS ONE FOR EVERY 1,700 SQUARE FEET OF USABLE FLOOR SPACE, WHICHEVER IS THE GREATER.

OFFICE SPACE 16,900 SFT / 250 = 68 SPACES REQUIRED

INDUSTRIAL SPACE 166,284 (85% USEABLE) = 141,341.4

141,342.4 / 1700 = 83 SPACES REQUIRED.
149 EMPLOYEES +5 = 154 SPACES REQUIRED

TOTAL SPACES REQUIRED = 222 (68+154) SPACES INCLUDING 7 BARRIER FREE SPACES

TOTAL SPACES PROVIDED = 277 SPACES INCLUDING 9 BARRIER FREE SPACES

BICYCLE PARKING = 2 SPACES REQUIRED/8 SPACES PROVIDED

PARKING DATA

CATEGORY	PROVIDED
ASSOCIATE LOT	
ASSOCIATE STALLS	213
MANAGER STALLS	15
DSP MANAGEMENT STALLS	34
CUSTOMER STALLS	3
VISITOR STALLS	3
ACCESSIBLE STALLS (AUTO)	7
ACCESSIBLE STALLS (VAN)	2
VAN DRIVER PERSONAL (9'X18')	0
ASSOCIATE PARKING LOT TOTAL (9'X18')	277
VAN LOT	
VAN DRIVER PERSONAL STALLS (11'X27')	180
STANDARD VAN STALLS (11'X27')	662
VAN BUFFER STALLS (11'X27')	33
DRIVER TRAINING STALLS (11'X27')	66
VAN PARKING LOT TOTAL (11'X27')	941
LOADING & STAGING AREA	
VAN STAGING SPOTS**	90
VAN LOADING SPOTS	90
TRUCK YARD	
LOADING DOCK SPACES	17
TRAILER PARKING SPACES (INCL. HOSTLER)	13
VAN MAINTENANCE ALSO REFERRED TO AS VAN BUFFER & SKILL DRILL TRAINING	
**VAN STAGING ALSO REFERRED TO AS VAN QUEUING	

SITE DATA

SITE AREA
GROSS: 4,212,695.21 SFT. OR 96.71 ACRES
NET (60' R.O.W.): 4,142,579.85 SFT. OR 95.10 ACRES

ZONING
EXISTING: I–1 (LIGHT INDUSTRIAL DISTRICT)

SITE AREA	4,142,579.85 SFT.	100.0%
BUILDING FOOTPRINT	183,184.36 SFT.	4.4%
PARKING & DRIVES	1,115,132.44 SFT.	26.9%
OPEN SPACE	2,844,263.05 SFT.	68.7%

SETBACK REQUIREMENTS	REQUIRED	PROVIDED
FRONT:	50'(S)	308.1'(S)
SIDE:	40'(W),40'(E)	227.10'(W),289.70'(E)
REAR:	40'(N)	1,685.7'(N)

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATERMAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- PROPOSED LIGHT POLE

FIRE DEPARTMENT NOTES

THE ENTIRE PROJECT SHALL CONFORM TO THE AUTHORITY HAVING JURISDICTION YPSILANTI TOWNSHIPS ADOPTED FIRE CODE, ORDINANCES, AND THE MICHIGAN BUILDING CODE.

FIRE DEPARTMENT ACCESS ROADS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT.

FIRE LANES SHALL BE POSTED WITH APPROVED "FIRE LANE" SIGNS. THE TOWNSHIP SHALL HAVE FINE DETERMINATION FOR THE STYLE OF SIGN AND THE PLACEMENT OF THEM.

ALL APPROPRIATE BUILDING PERMITS AND FIRE PROTECTION SYSTEMS SHALL BE OBTAINED THROUGH THE YPSILANTI'S BUILDING DEPARTMENT. DEFERRED SUBMITTAL IS REQUIRED. A THIRD PARTY REVIEW OF THE FIRE SUPPRESSION AND FIRE ALARM PLANS IS RECOMMENDED.

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ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
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Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
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Washtenaw County, Michigan

SHEET
Overall Site Plan

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
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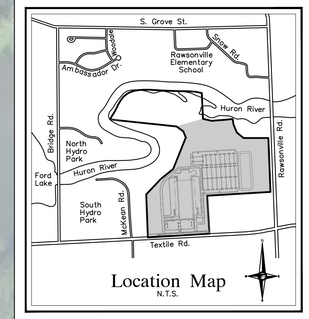
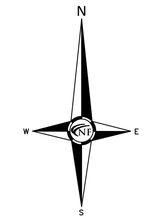
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 100'

NFE JOB NO. M278-01
SHEET NO. SP 3.0





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LEGEND

MANHOLE	EXISTING SANITARY SEWER
	SAN. CLEAN OUT
HYDRANT / GATE VALVE	EXISTING WATERMAIN
MANHOLE / CATCH BASIN	EXISTING STORM SEWER
	EX. R. Y. CATCH BASIN
	EXISTING BURIED CABLES
UTILITY POLE / GUY POLE / GUY WIRE	OVERHEAD LINES
	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
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HYDRANT / GATE VALVE	PR. WATER MAIN
INLET / C.B. / MANHOLE	PR. STORM SEWER
	PR. R. Y. CATCH BASIN
	PROPOSED LIGHT POLE

DRAWN BY:
R. Johnson

DESIGNED BY:
B. Brickel

APPROVED BY:
B. Brickel

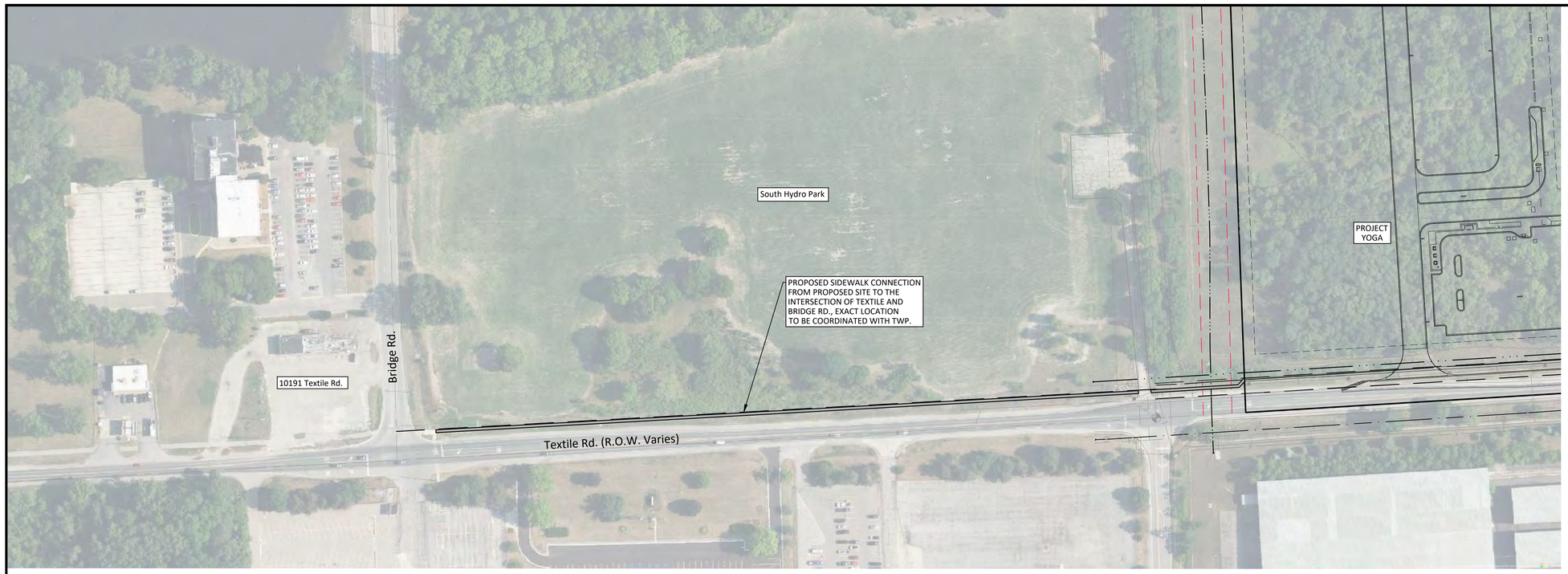
DATE:
September 24, 2021

SCALE: 1" = 120'

120 60 0 60 120 180

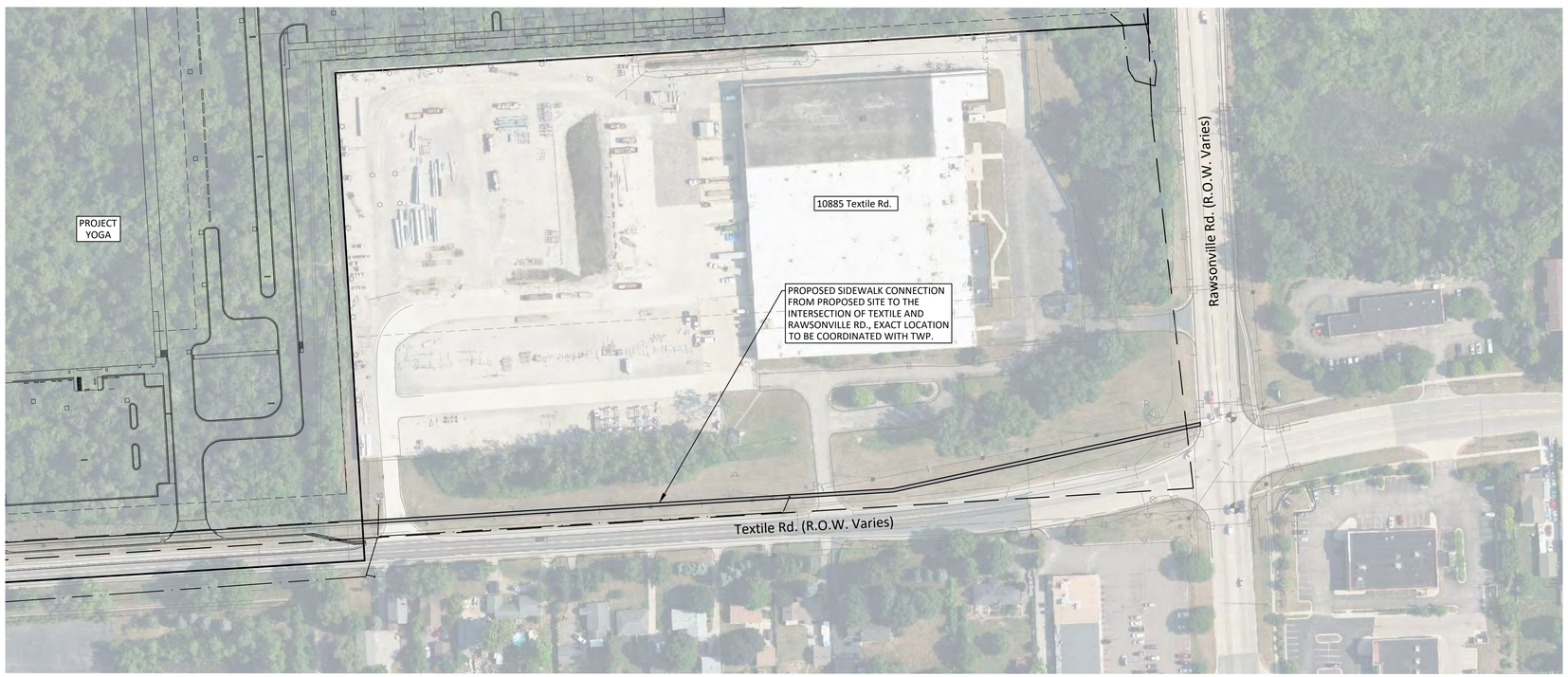
NFE JOB NO. M278-01

SHEET NO. SP 3.1



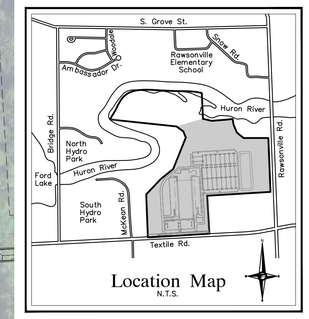
SIDEWALK GAP IMPROVEMENT TO BRIDGE RD.

SCALE 1"=100'



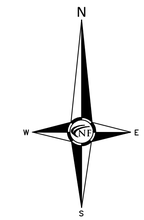
SIDEWALK GAP IMPROVEMENT TO RAWSONVILLE RD.

SCALE 1"=100'



Location Map

N.T.S.



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SHEET
Sidewalk Gap
Improvement Plan

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DRAWN BY: R. Johnson

DESIGNED BY: B. Brickel

APPROVED BY: B. Brickel

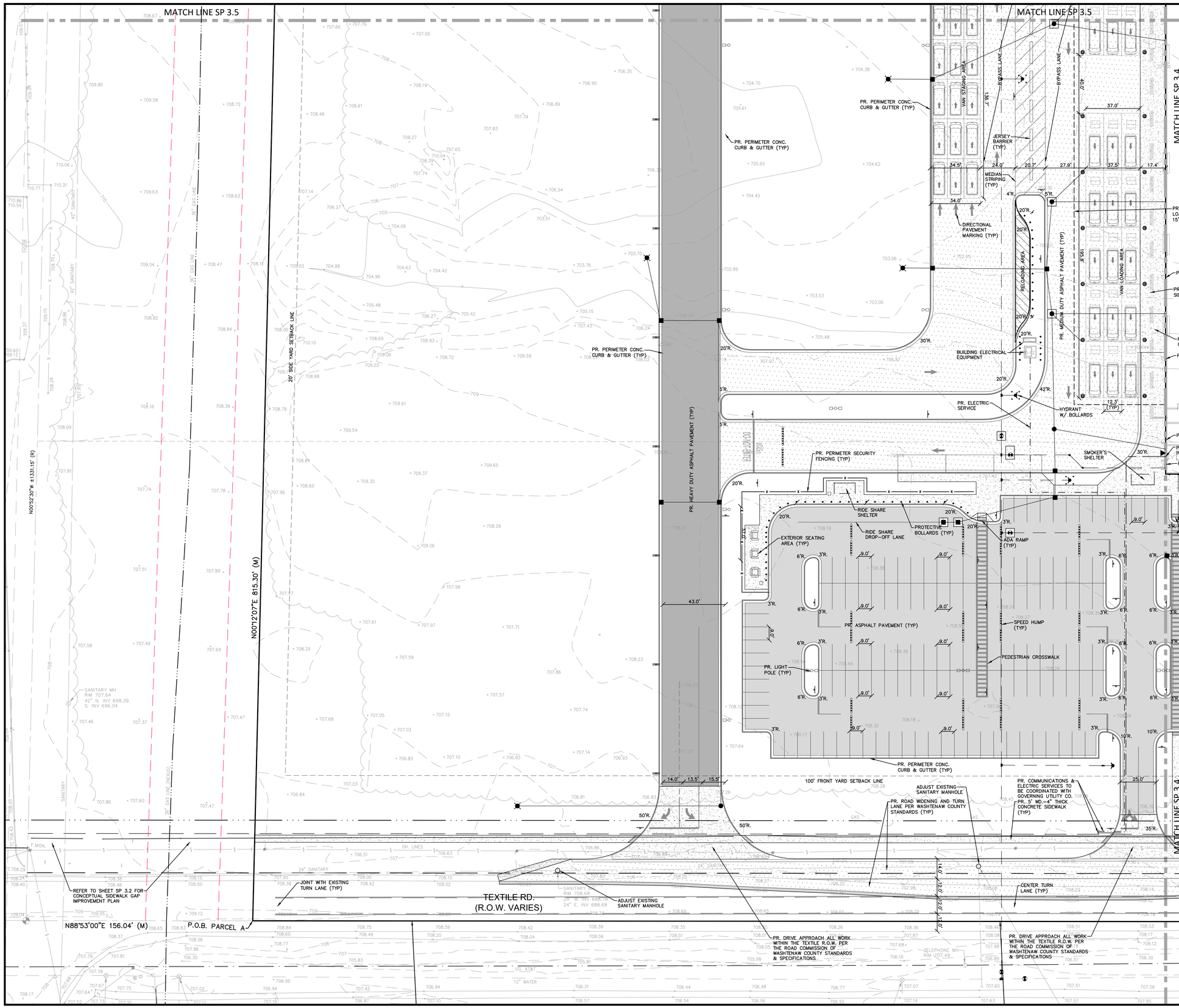
DATE: September 24, 2021

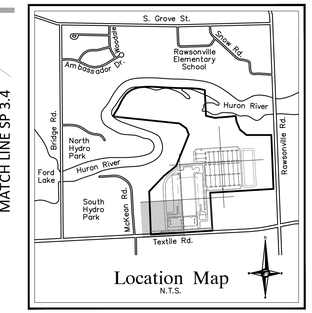
SCALE: 1" = 120'

120 60 0 60 120 180

NFE JOB NO. M278-01

SHEET NO. SP 3.2





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- PR. HEAVY DUTY ASPHALT PAVEMENT
- PR. SPILL OUT CURB
- PR. SPILL IN CURB

LEGEND

- EXISTING SANITARY SEWER (MANHOLE)
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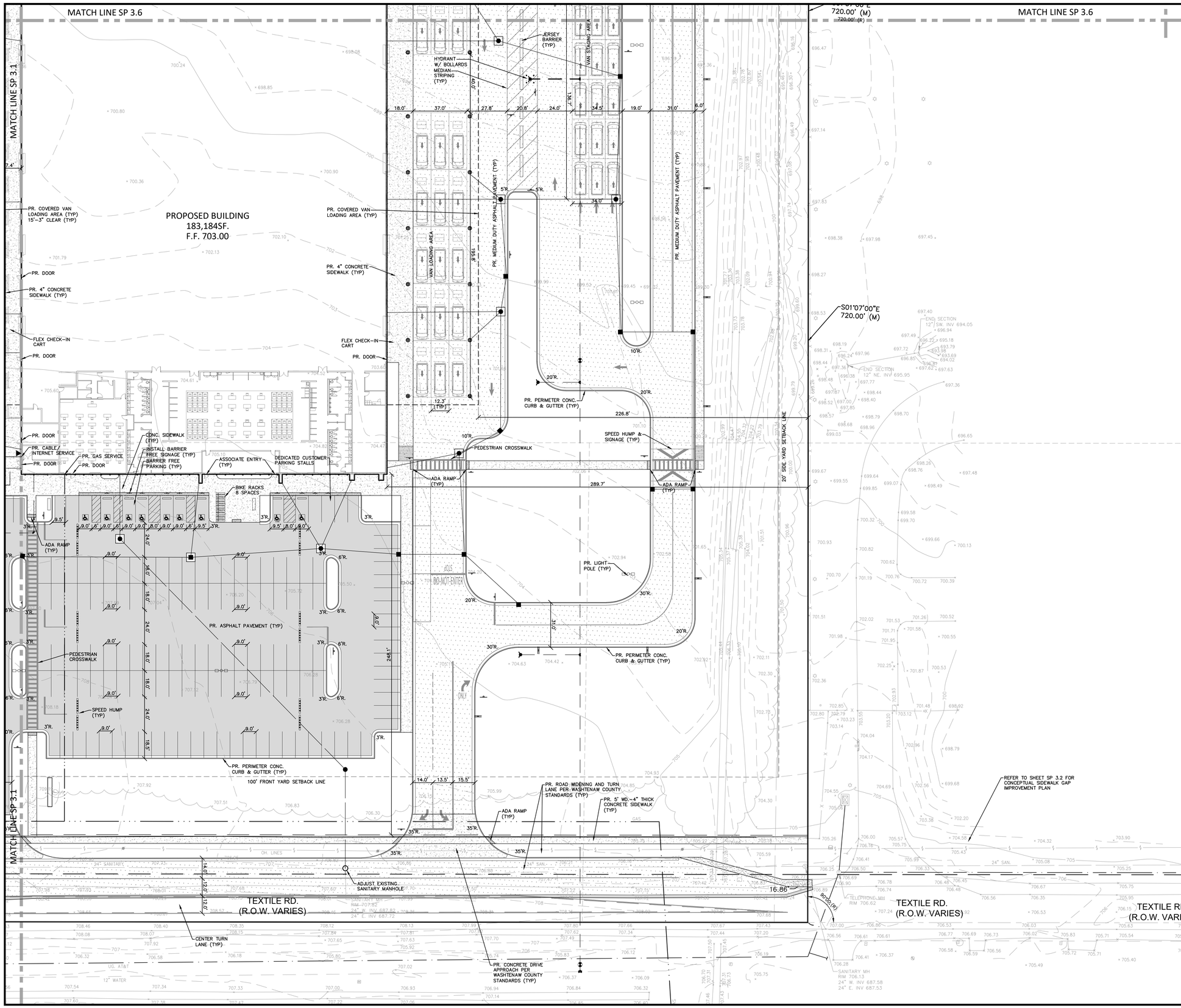
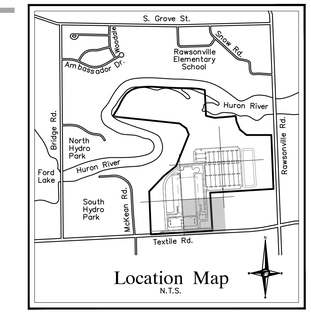
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 3.3





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J. Lawrey

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B. Brickel

APPROVED BY:
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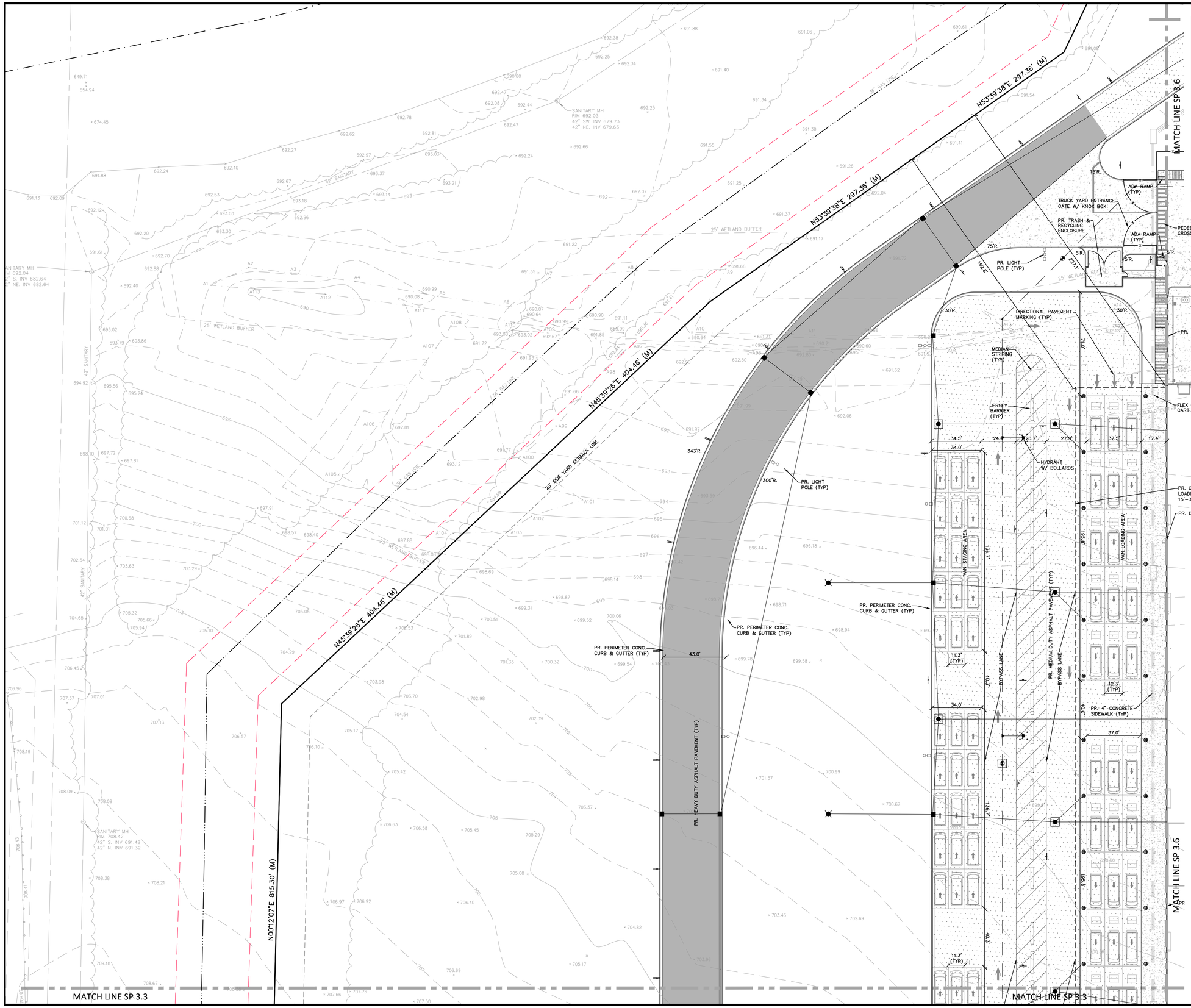
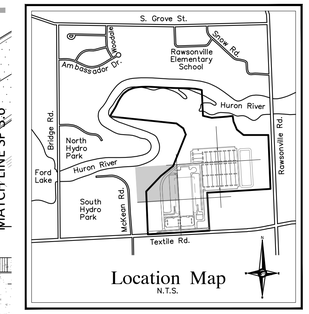
30 15 0 15 30 45

NFE JOB NO. M278-01

SHEET NO. SP 3.4





Location Map
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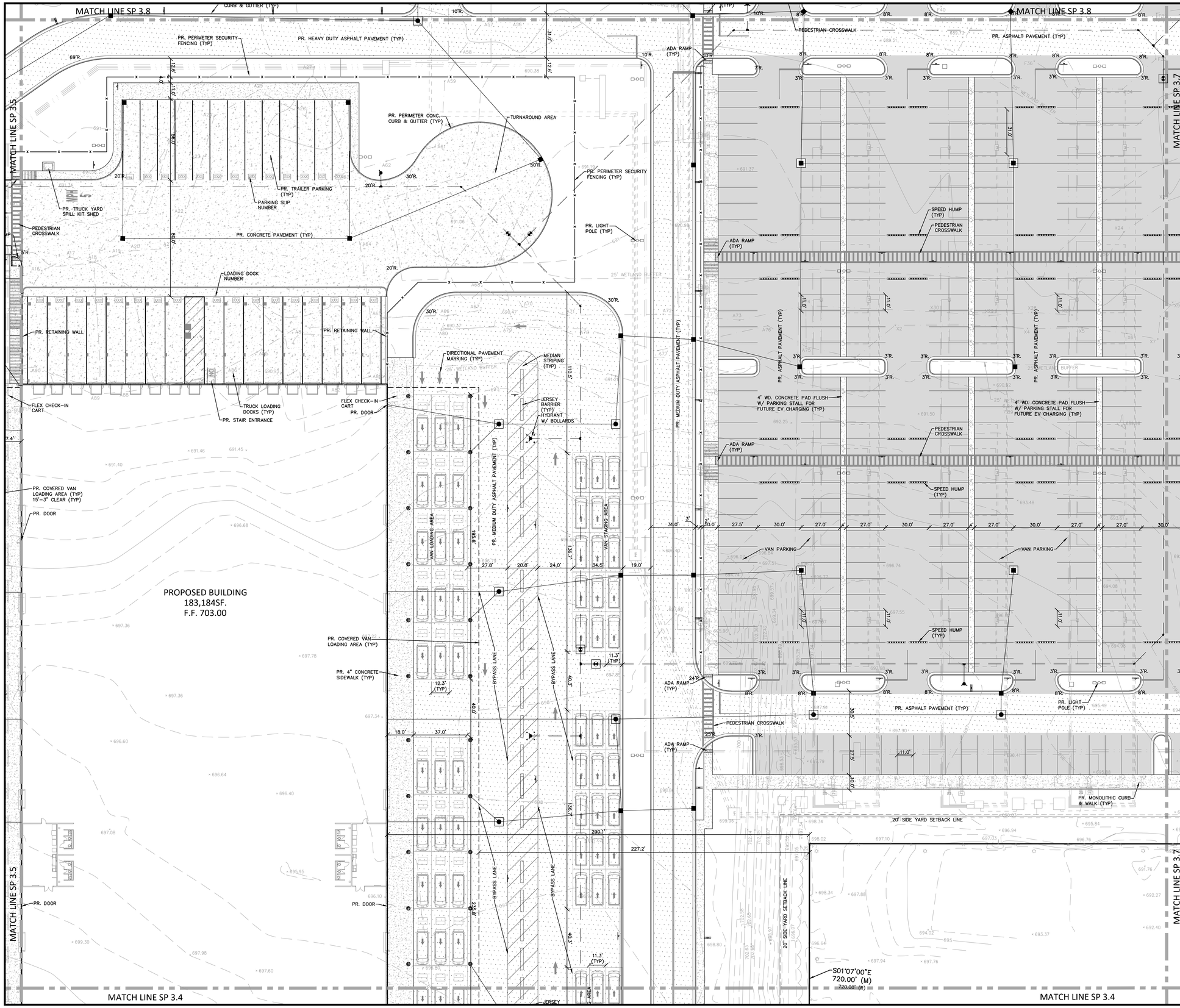
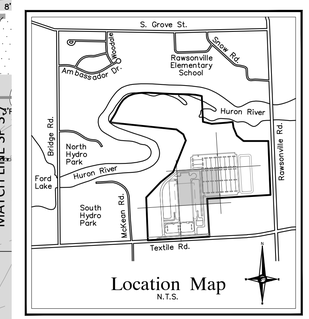
DATE: September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 3.5





DIMENSIONING NOTE

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NOTES

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- PR. CONCRETE PAVEMENT/SIDEWALK
- PR. STANDARD ASPHALT PAVEMENT
- PR. MEDIUM DUTY ASPHALT PAVEMENT
- PR. HEAVY DUTY ASPHALT PAVEMENT
- PR. SPILL OUT CURB
- PR. SPILL IN CURB

LEGEND

- EXISTING SANITARY SEWER (MANHOLE)
- SAN. CLEAN OUT
- EXISTING WATERMAIN (HYDRANT, GATE VALVE)
- EXISTING STORM SEWER (MANHOLE, CATCH BASIN)
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES (UTILITY POLE, GUY POLE)
- OVERHEAD LINES (GUY WIRE)
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- PR. SANITARY SEWER (C.O., MANHOLE)
- PR. WATER MAIN (HYDRANT, GATE VALVE)
- PR. STORM SEWER (INLET, C.B., MANHOLE)
- PR. R. Y. CATCH BASIN
- PROPOSED LIGHT POLE

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WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Detailed Site Plan

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2021-11-24	ISSUED FOR BIDDING
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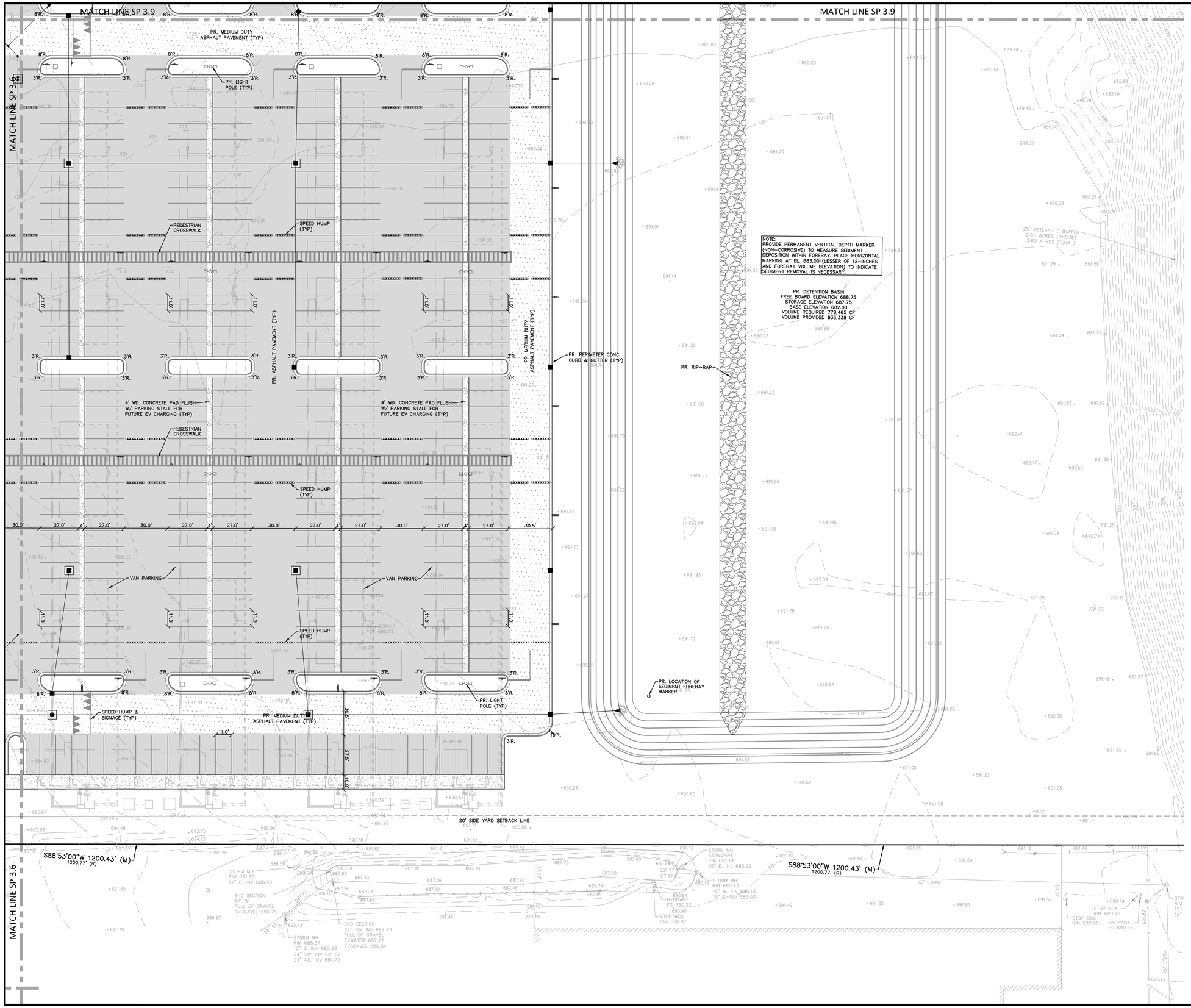
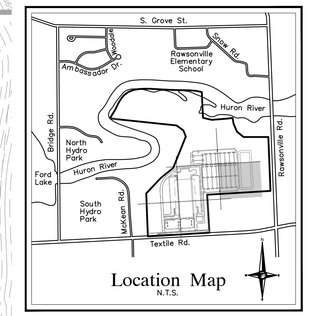
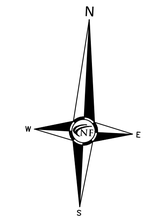
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 3.6





Location Map
N.T.S.



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LEGEND

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- EXISTING WATERMAIN
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DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
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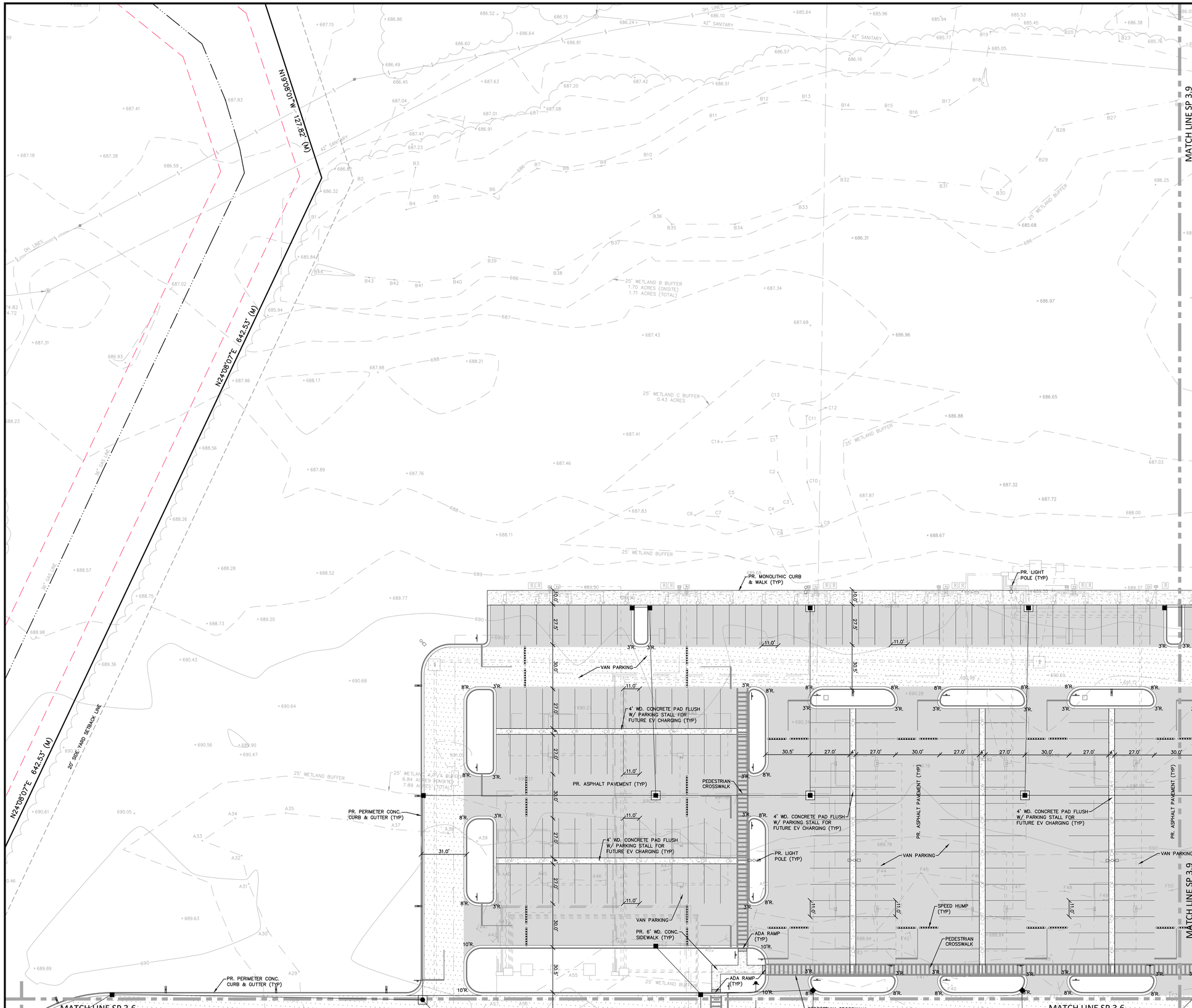
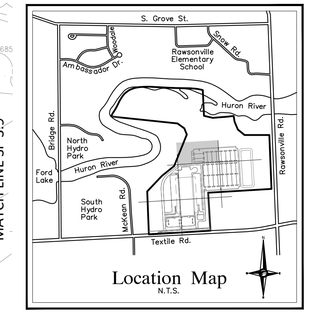
30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 3.7





Location Map
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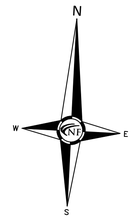

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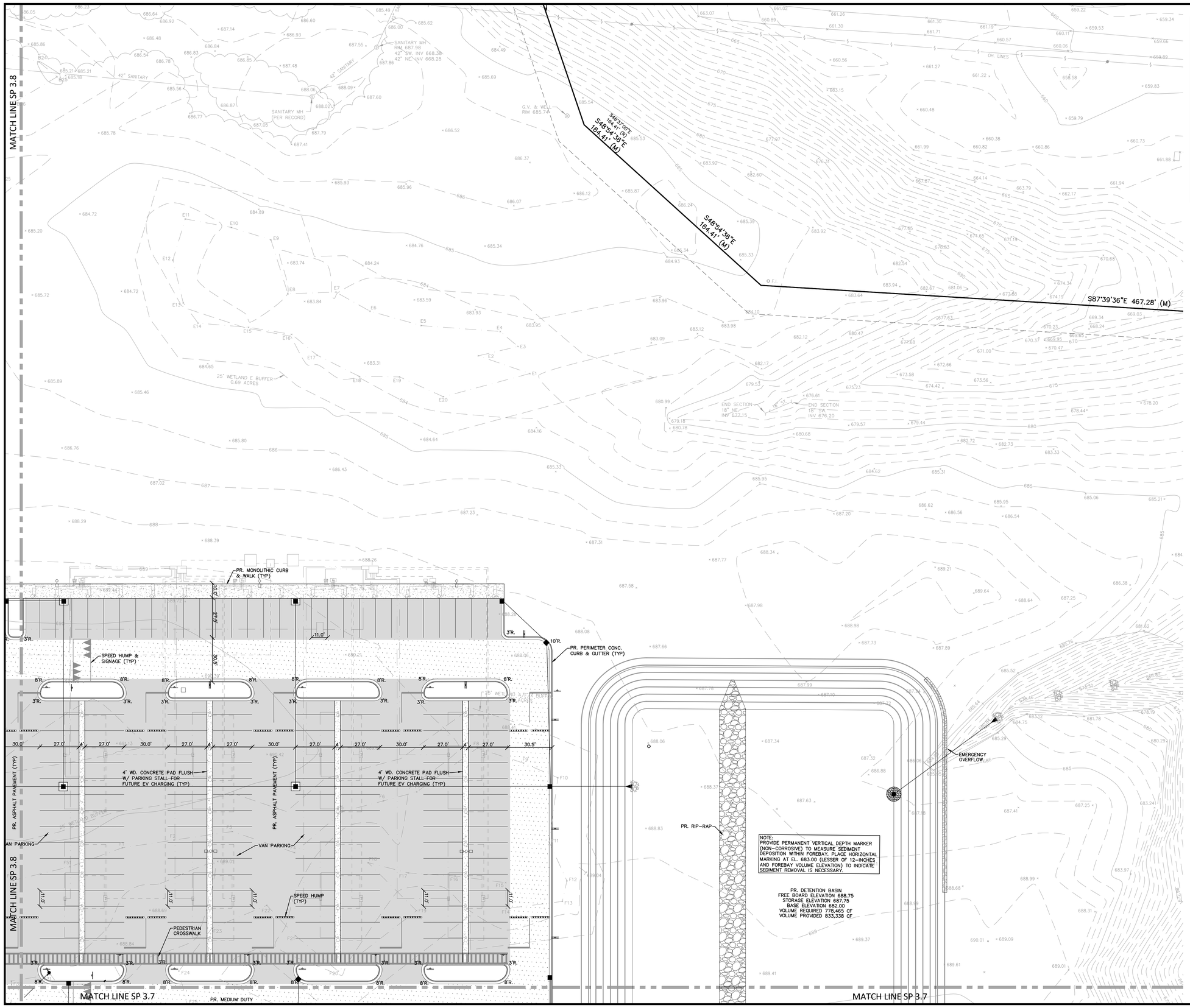
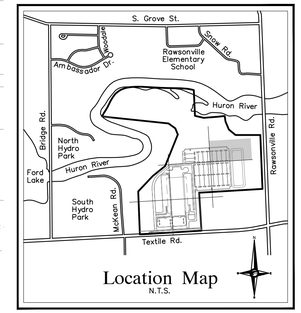
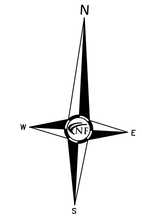
30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 3.8







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30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 3.9

MATCH LINE SP 3.11

MATCH LINE SP 3.11

MATCH LINE SP 3.11

OVERHEAD CANOPY
15'-3" CLEAR (TYP)

250'R. HYDRANT COVERAGE

PROPOSED BUILDING
183,184SF.
F.F. 703.00

FIRE LANE
SIGN (TYP)

OVERHEAD CANOPY
15'-3" CLEAR (TYP)

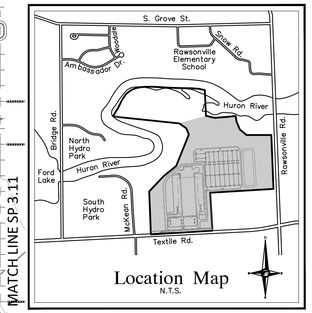
OVERHEAD CANOPY
15'-3" CLEAR (TYP)

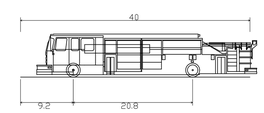
PROPOSED BUILDING
183,184SF.
F.F. 703.00

FIRE LANE
SIGN (TYP)

TEXTILE RD.
(R.O.W.
VARIES)

TEXTILE RD.
(R.O.W.
VARIES)





Ypsilanti Truck	
Overall Length	40.000ft
Overall Width	8.167ft
Overall Body Height	7.523ft
Min Body Ground Clearance	0.434ft
Track Width	6.900ft
Lock-to-lock time	6.00s
Max Wheel Angle	45.00°

T-2 FIRE APPARATUS

THE SYMBOL 'P' IS BLACK, CIRCUMSCRIBED IN A RED CIRCLE WITH A RED SLASH ON A WHITE BACKGROUND AND BLACK BORDER.

THE SUPPLEMENTAL EDUCATIONAL PLAQUE NO PARKING, WITH A RED LEGEND AND BORDER ON A WHITE BACKGROUND, MAY BE USED ABOVE THE SYMBOL.

CARE SHOULD BE EXERCISED TO SEE THAT THE SINGLE ARROWS POINT IN THE PROPER DIRECTION TO INDICATE THE REGULATED ZONE.

FIRE LANE SIGN DETAIL

FIRE DEPARTMENT NOTES

THE ENTIRE PROJECT SHALL CONFORM TO THE AUTHORITY HAVING JURISDICTION (X) ADOPTED FIRE CODE, ORDINANCES, AND THE MICHIGAN BUILDING CODE.

FIRE DEPARTMENT ACCESS ROADS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT.

FIRE LANES SHALL BE POSTED WITH APPROVED "FIRE LANE" SIGNS. THE X SHALL HAVE FINE DETERMINATION FOR THE STYLE OF SIGN AND THE PLACEMENT OF THEM.

ALL APPROPRIATE BUILDING PERMITS AND FIRE PROTECTION SYSTEMS SHALL BE OBTAINED THROUGH THE X'S BUILDING DEPARTMENT. DEFERRED SUBMITTAL IS REQUIRED. A THIRD PARTY REVIEW OF THE FIRE SUPPRESSION AND FIRE ALARM PLANS IS RECOMMENDED.

LEGEND

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	SAN. CLEAN OUT
HYDRANT / GATE VALVE	EXISTING WATERMAIN
MANHOLE / CATCH BASIN	EXISTING STORM SEWER
	EX. R. Y. CATCH BASIN
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UTILITY POLE / GUY POLE / GUY WIRE	OVERHEAD LINES
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50 25 0 25 50 75

NFE JOB NO. M278-01
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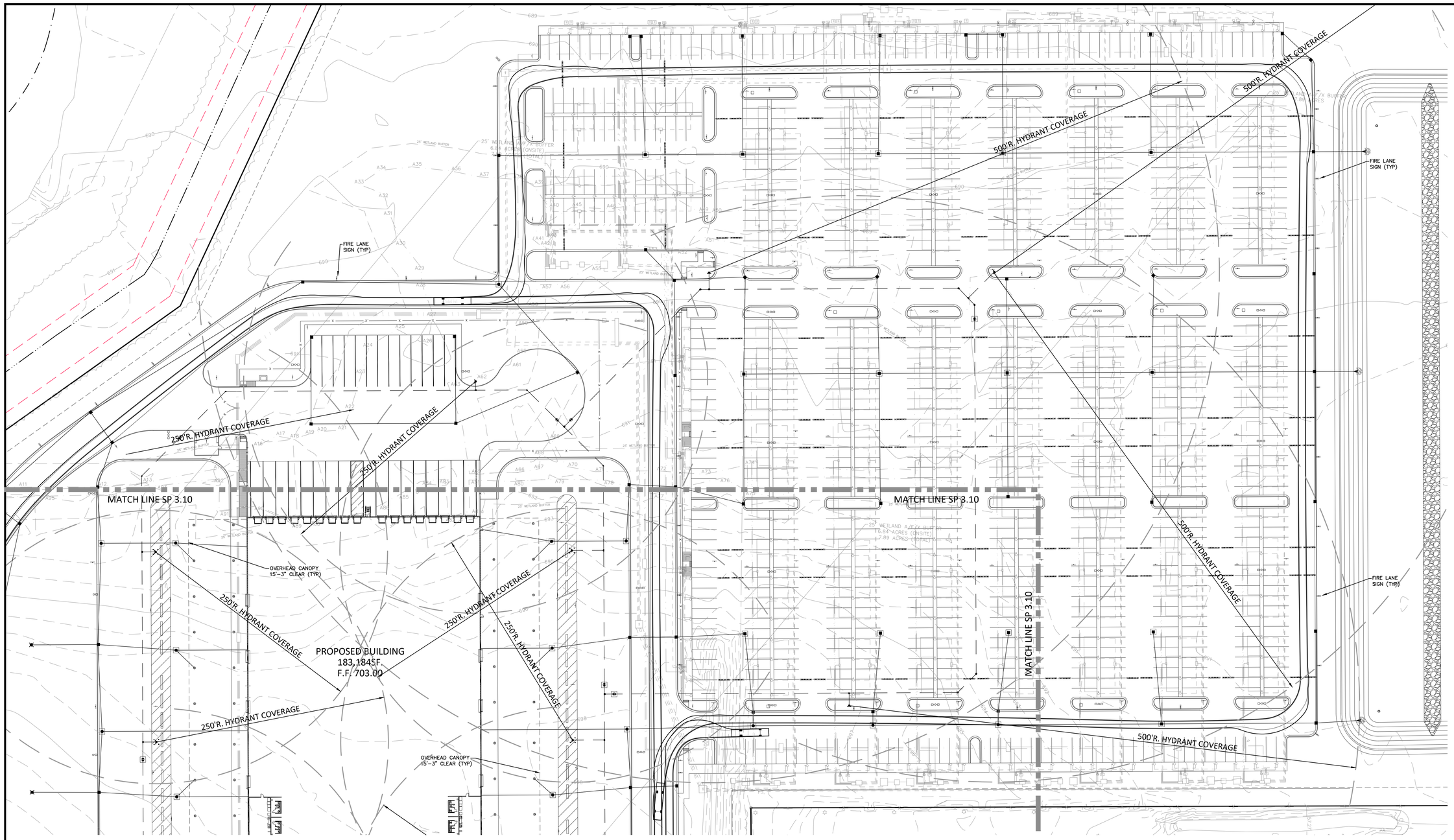

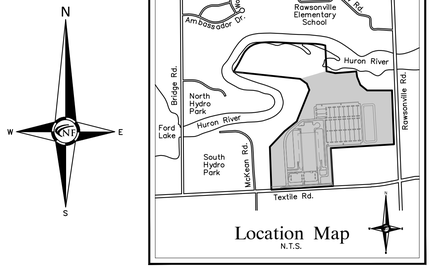

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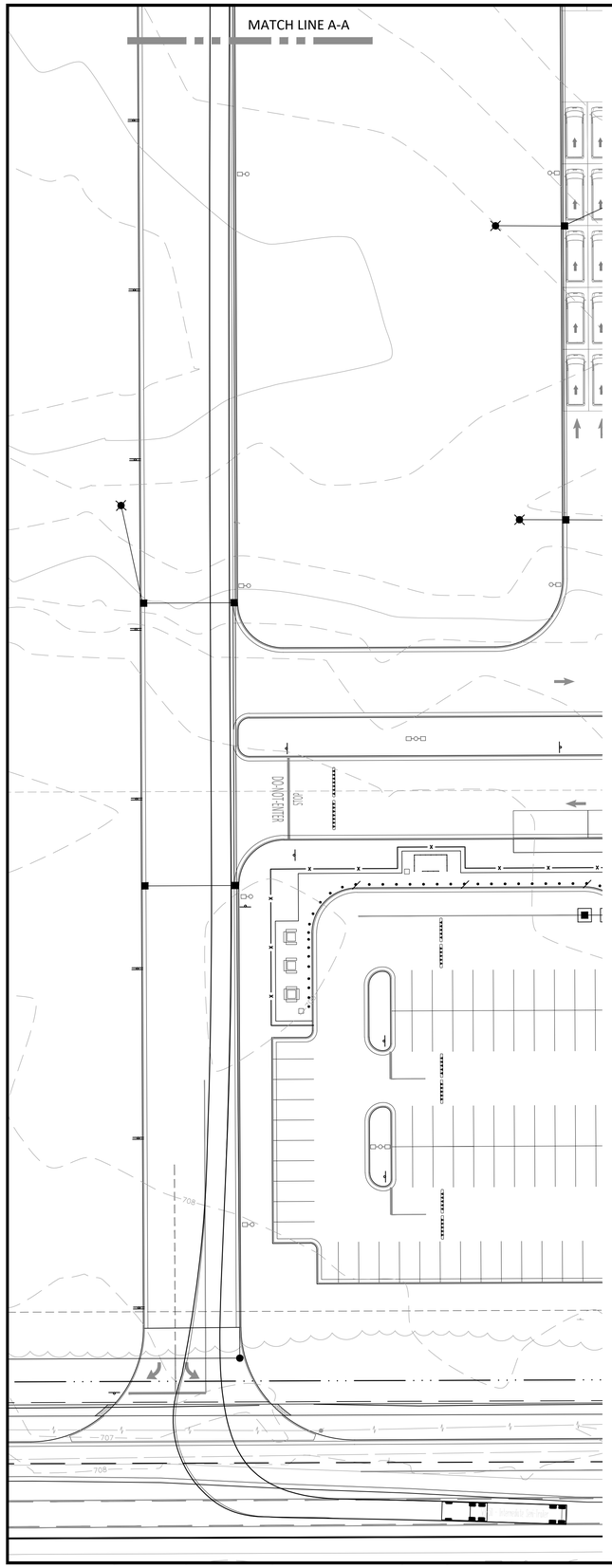
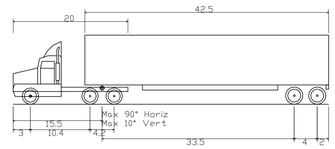
50 25 0 25 50 75

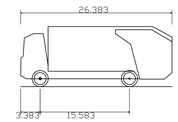
NFE JOB NO. **M278-01**
SHEET NO. **SP 3.11**





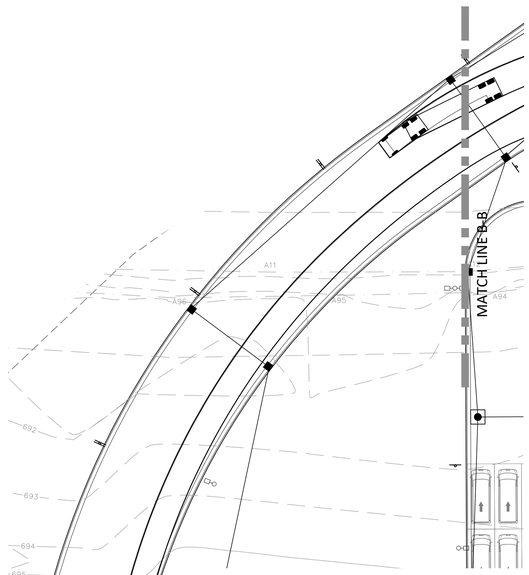
WB-50 - Intermediate Semi-Trailer

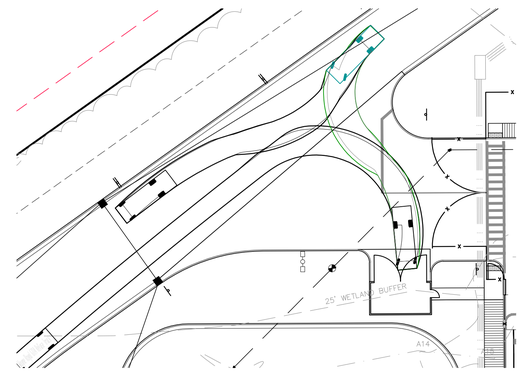
Overall Length	55.000ft
Overall Width	8.500ft
Overall Body Height	12.052ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	17.90°



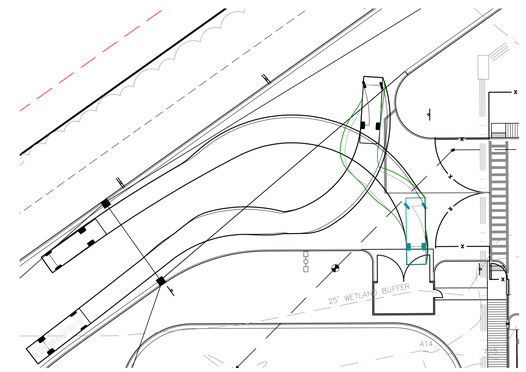
Hino 338 L + Wayne Royal GT14 Refuse Truck

Overall Length	26.383ft
Overall Width	8.042ft
Overall Body Height	10.488ft
Min Body Ground Clearance	1.318ft
Track Width	8.042ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	25.200ft

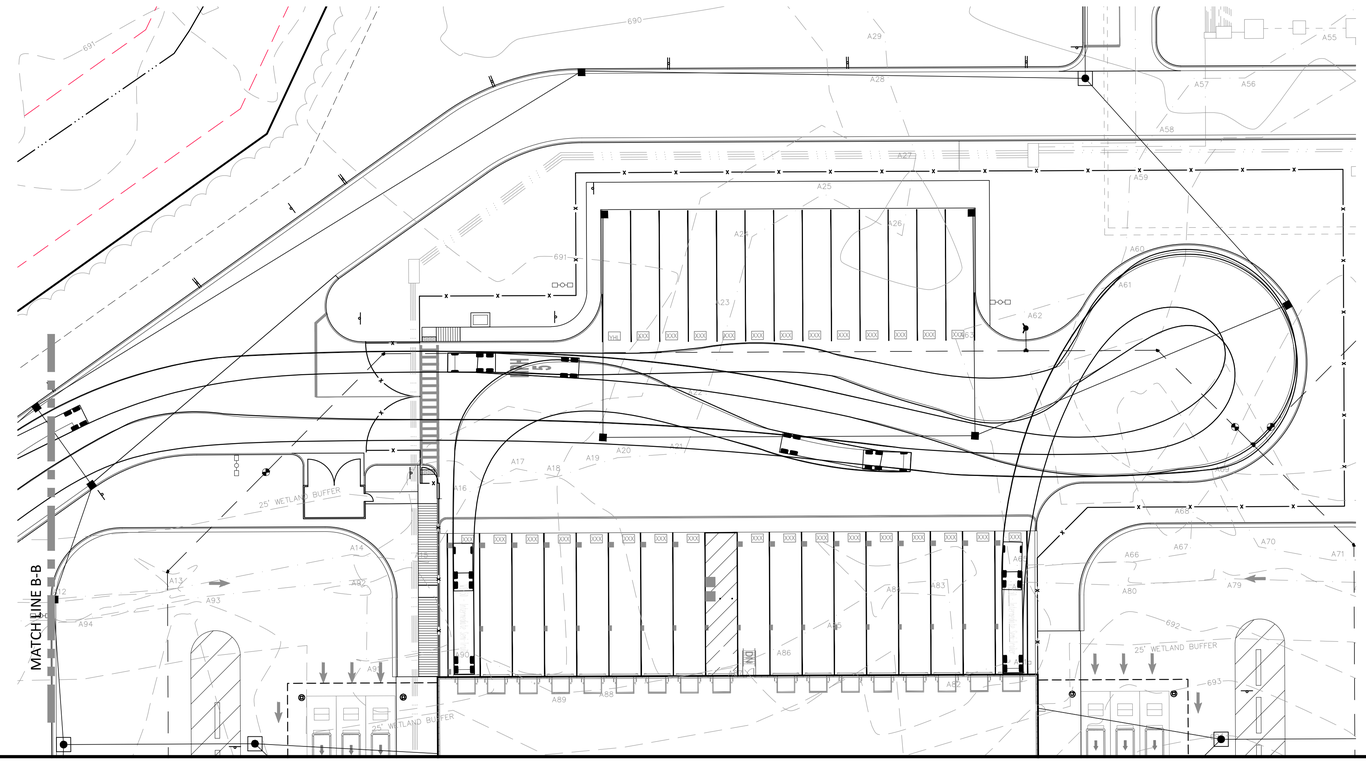


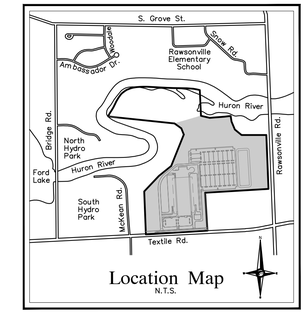


FRONT LOADING GARBAGE TRUCK
SCALE 1"=30'



REAR LOADING GARBAGE TRUCK
SCALE 1"=30'





Location Map
N.T.S.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN
BRAD. W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

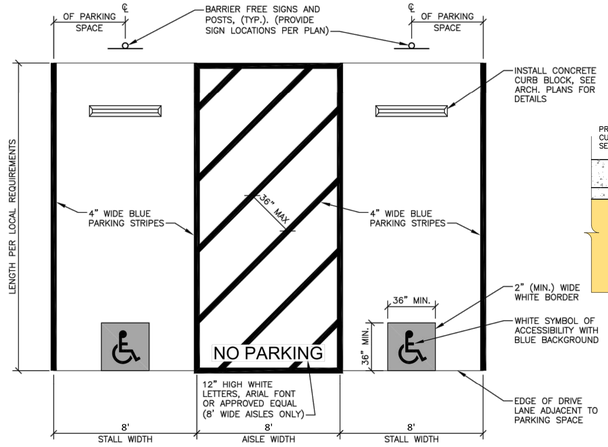
SHEET
Garbage-Tractor Trailer Access Plan

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'
30 15 0 15 30 45

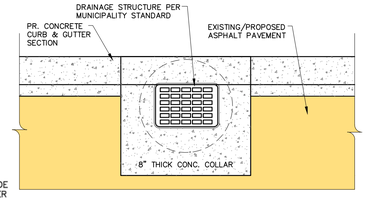
NFE JOB NO. M278-01
SHEET NO. SP 3.12



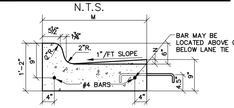
BARRIER FREE PARKING STALL DETAIL
NO SCALE

NOTES:

1. THE BARRIER FREE PARKING SYMBOL SHALL BE LOCATED IN THE CENTER OF THE PARKING SPACE AND ALONG THE EDGE OF THE ADJACENT DRIVE AISLE, (TYP.).
2. PARKING SYMBOL STRIPING SHALL HAVE A MINIMUM WIDTH OF 2".
3. CONTRACTOR SHALL ADHERE TO LOCAL/STATE JURISDITCTIONAL REQUIRMENTS FOR ALL PAINTING WITHIN ACCESSIBLE SPACES.



DRAINAGE STRUCTURE BOXOUT DETAIL I
N.T.S.



DETAIL	DIMENSIONS M	DIMENSIONS N	LANE TIES	CONCRETE CU. YD./LIN. FT.
F1	1'-6"	3/8"	AS SHOWN	0.0484
F2	1'-6"	3/8"	OMITTED	0.0484
F3	2'-0"	1/2"	AS SHOWN	0.0610
F4	2'-0"	1/2"	OMITTED	0.0610
F5	2'-6"	1/2"	AS SHOWN	0.0737
F6	2'-6"	1/2"	OMITTED	0.0737

MDOT CURB AND GUTTER DETAIL F
N.T.S.

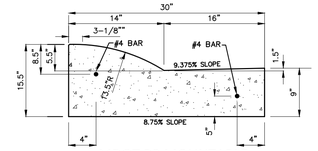
INSTALLATION IN LAWN AREAS:
POSTS ARE TO BE LOCATED 5'-0" FROM EDGE OF CURB. BURY POST 3'-0" DEEP AND AS SHOWN ON DRAWINGS. MOUNT SIGN TO POST PER MANUFACTURER'S RECOMMENDATIONS.

PARKING – FIRE LANE SIGNS:
12"x18", NON-REFLECTIVE

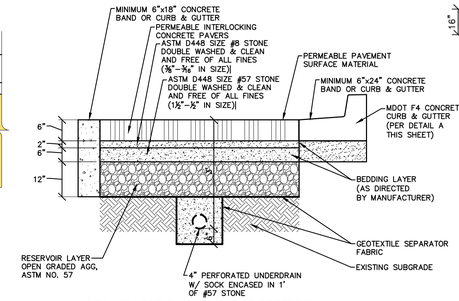
ACCESSIBLE PARKING SIGNS:
REFLECTIVE 0.080: ALUMINUM WITH SCOTCHLITE, OR APPROVED EQUAL.

SUPPLEMENTAL VAN ACCESSIBLE SIGNS:
REFLECTIVE 0.080: ALUMINUM WITH SCOTCHLITE, OR APPROVED EQUAL.

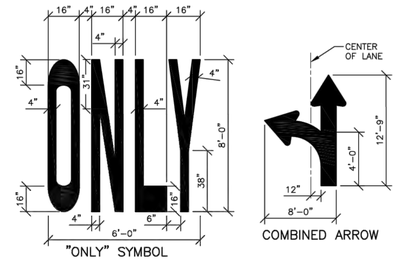
WRONG WAY SIGNS:
30"x18" UV SCREEN PRINTED ALUMINUM



MDOT B2 MOUNTABLE CONCRETE CURB AND GUTTER
N.T.S.

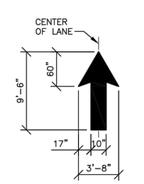


PERMEABLE PAVER CROSS SECTION
N.T.S.

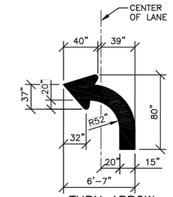


"ONLY" SYMBOL

COMBINED ARROW



THROUGH ARROW

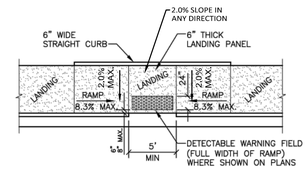


TURN ARROW

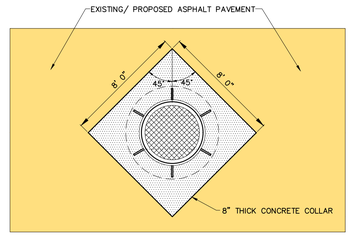
NOTES:

1. MARKINGS SHALL BE WHITE WITH REFLECTIVE SURFACES.
2. PAINT MATERIALS PER SPECIFICATIONS EXCEPT FOR WITHIN RIGHT-OF-WAY. MARKINGS WITHIN HIGHWAY RIGHT-OF-WAY SHALL BE PER LOCAL CRITERIA.

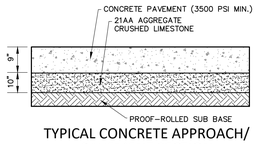
PAVEMENT MARKING DETAILS
NO SCALE SM-009



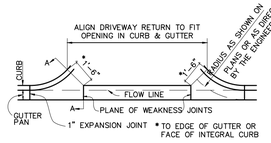
RAMP PLAN
NO SCALE



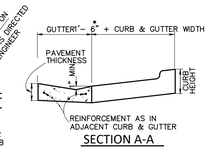
DRAINAGE STRUCTURE BOXOUT DETAIL II
N.T.S.



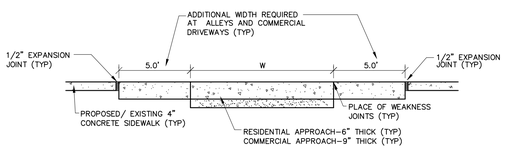
TYPICAL CONCRETE APPROACH/ PAVEMENT SECTION
N.T.S. (WITHIN R.O.W.)



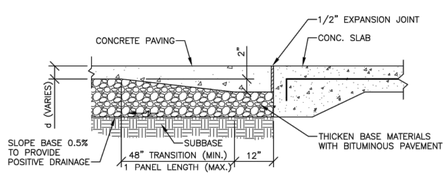
MDOT DRIVEWAY OPENING DETAIL 'M'
N.T.S.



SECTION A-A

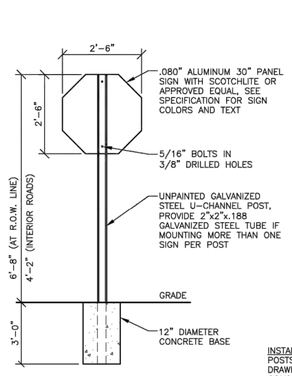


COMMERCIAL CONCRETE SIDEWALK DETAIL
N.T.S.



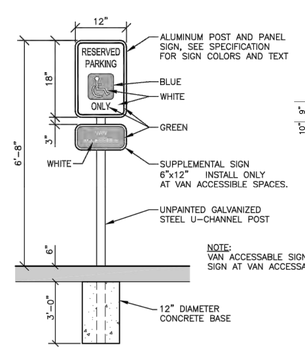
REQUIRED AT ALL JUNCTIONS WITH CONCRETE SLAB

CONCRETE PAVEMENT EDGE DETAIL
NO SCALE CP-013



STOP SIGNS AT DRIVE ENTRANCES SHALL BE LOCATED 12'-0" FROM R.O.W. LINE AND 30" FROM FACE OF CURB (TYP.).

STOP SIGN DETAIL
NO SCALE SM-006

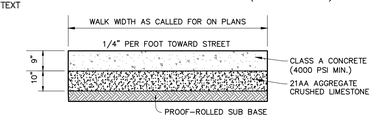


NOTE:
VAN ACCESSABLE SIGN IS ADDED TO B.F. SIGN AT VAN ACCESSABLE LOCATIONS.

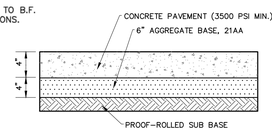
INSTALLATION IN PAVED AREAS:
POSTS ARE TO BE LOCATED AS SHOWN ON DRAWINGS AND SET IN PRECAST REINFORCED CONCRETE SIGN POST BASE. MOUNT SIGN TO POST PER MANUFACTURER'S RECOMMENDATIONS.

NOTE: SIGN, POLE AND BASE FURNISHED AND INSTALLED BY CONTRACTOR.

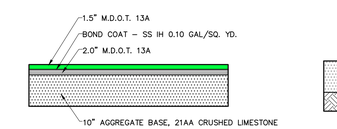
VAN ACCESSIBLE BARRIER FREE PARKING SIGN DETAIL
NO SCALE SM-005



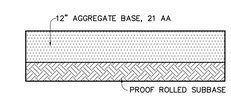
CONCRETE SIDEWALK WITHIN DRIVEWAYS SECTION
N.T.S. (WITHIN R.O.W.)



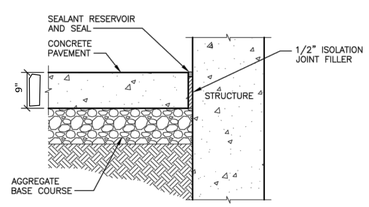
4" CONCRETE SECTION
N.T.S.



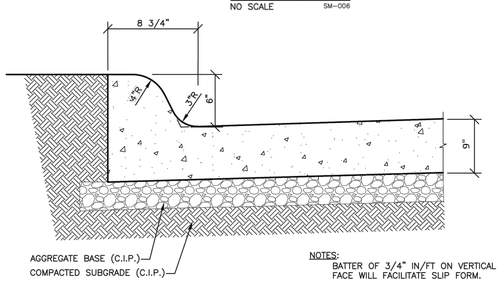
STANDARD DUTY ASPHALT SECTION
N.T.S.



GRAVEL PAVING SECTION
N.T.S.

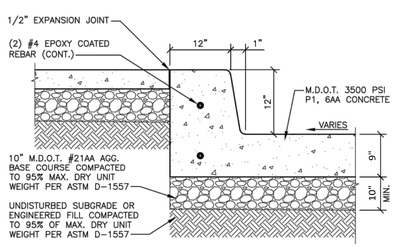


CONCRETE PAVEMENT EDGE AT STRUCTURE
NO SCALE CP-007

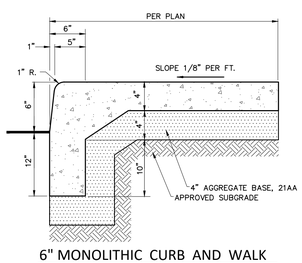


NOTES:
BATTER OF 3/4" IN/FT ON VERTICAL FACE WILL FACILITATE SLIP FORM.

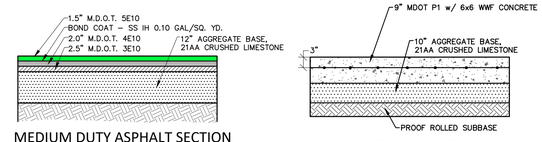
INTEGRAL CURB & GUTTER
NO SCALE CG-013



HEAVY DUTY CONCRETE WITH 12" INTEGRAL DETAIL
NO SCALE

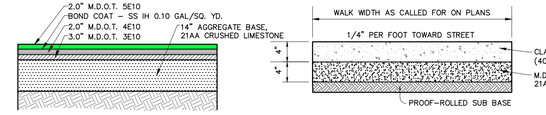


6" MONOLITHIC CURB AND WALK
N.T.S.



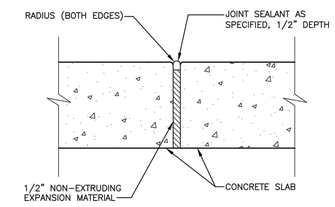
MEDIUM DUTY ASPHALT SECTION
N.T.S.

HEAVY DUTY CONCRETE SECTION
N.T.S.



HEAVY DUTY ASPHALT SECTION
N.T.S.

CONCRETE SIDEWALK SECTION
N.T.S.



ISOLATION (EXPANSION) JOINT SECTION
NO SCALE CP-005

GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

CONCRETE: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ASPHALT: BASE COURSE – MDOT BITUMINOUS MIXTURE NO. 110OL, 20AA; SURFACE COURSE – MDOT BITUMINOUS MIXTURE NO. 110OT, 20AA; ASPHALT CEMENT PENETRATION GRADE 85-100, BOND COAT – MDOT SS-1H EMULSION AT 0.10 GALLON PER SQUARE YARD; MAXIMUM 2 INCH LIFT.

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB-BASE SHALL BE PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS-S164.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.

EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
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WWW.NOWAKFRAUS.COM

SEAL
STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Paving Notes & Details

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09-24-21	TOPO SURVEY ISSUED
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2021-11-24	ISSUED FOR BIDDING
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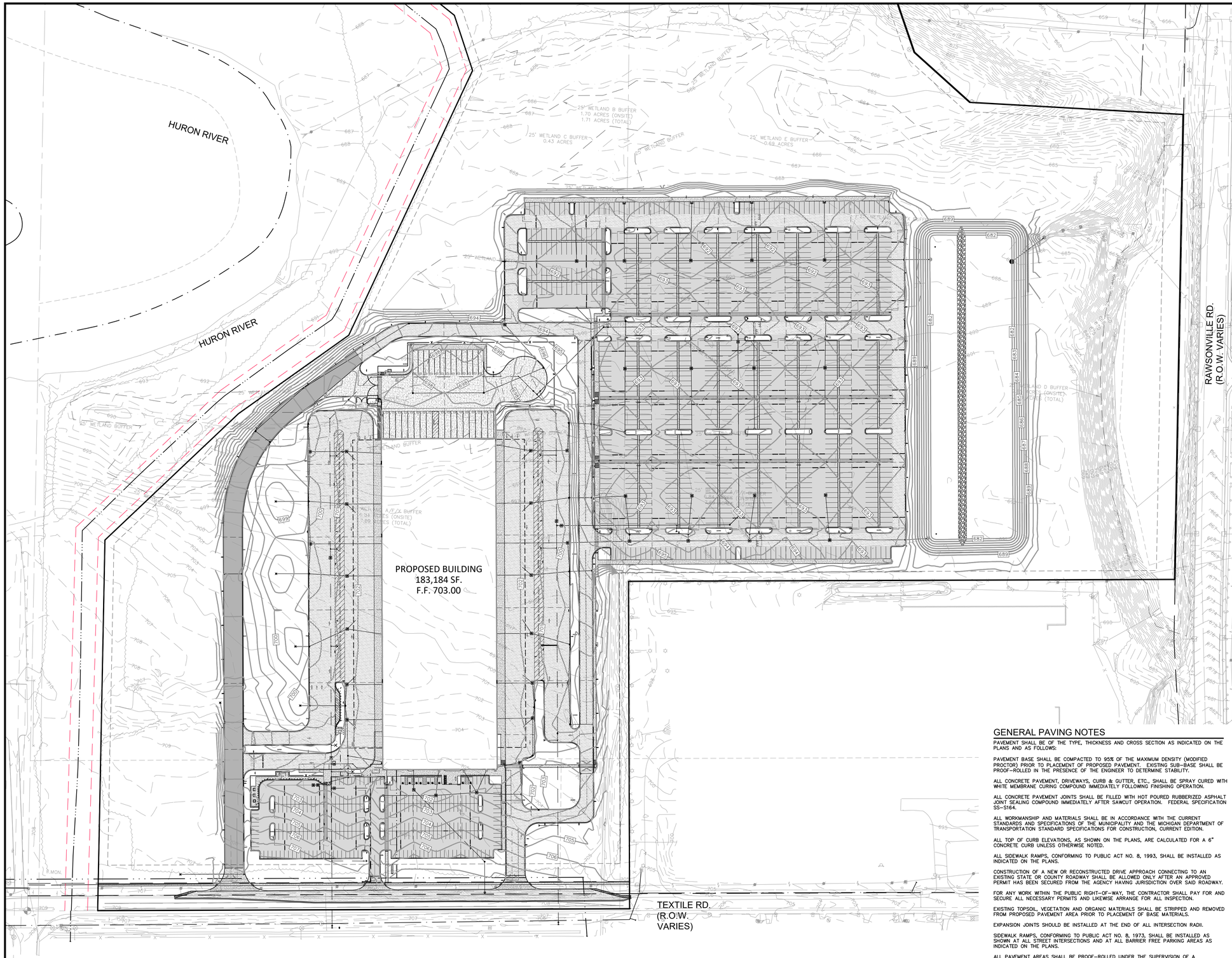
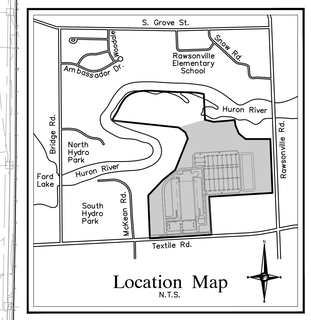
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: N.T.S.

NFE JOB NO. M278-01
SHEET NO. SP 4.0





Location Map
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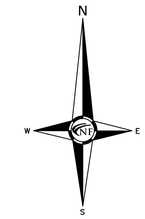

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ESTIMATED QUANTITIES - OVERALL

PAVING

DESCRIPTION	QUANTITY	UNITS
HEAVY–DUTY PORTLAND CEMENT PAVEMENT	6,626	S.Y.
HEAVY–DUTY HMA PAVEMENT	5,270	S.Y.
MEDIUM–DUTY HMA PAVEMENT	39,972	S.Y.
STANDARD–DUTY HMA PAVEMENT	58,218	S.Y.
4" CONCRETE PAVEMENT	1,940	S.Y.
4" CONCRETE SIDEWALK	15,792	S.F.
6" MONOLITHIC CURB & WALK	47,375	S.F.
6" MDOT F4 CONCRETE CURB & GUTTER	17,932	L.F.

PAVING LEGEND

- PR. CONCRETE PAVEMENT/SIDEWALK
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- PR. MEDIUM DUTY ASPHALT PAVEMENT
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- PR. SPILL IN CURB

LEGEND

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- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATERMAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
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GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS:

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB–BASE SHALL BE PROOF–ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION SS–S164.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT–OF–WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.

EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS.

EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

ALL PAVEMENT AREAS SHALL BE PROOF–ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING MATERIALS.

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

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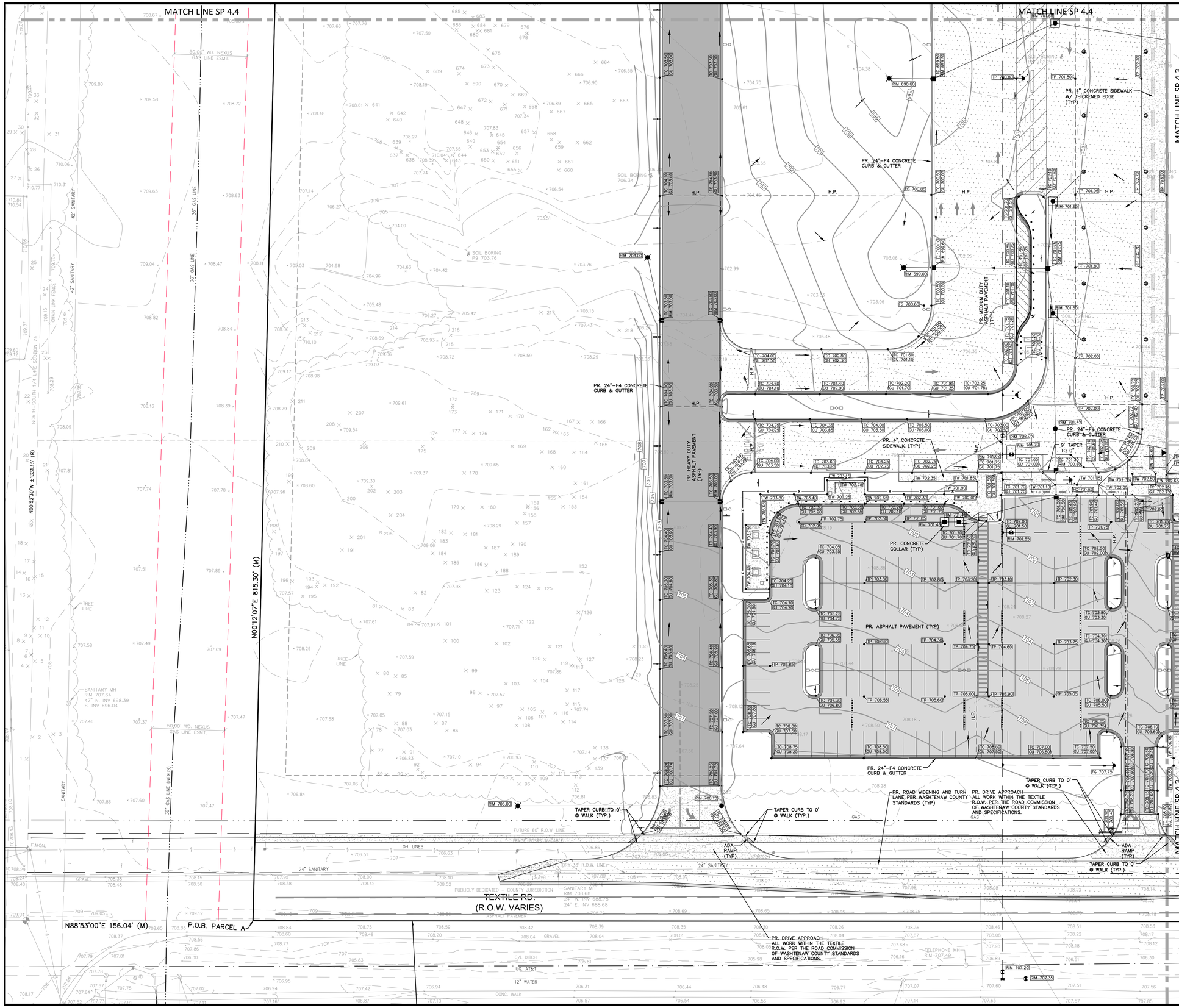
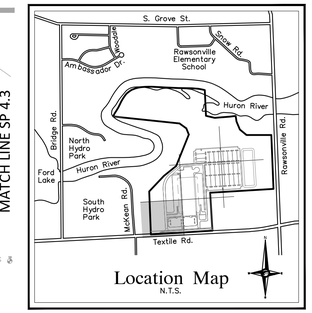
NFE JOB NO. M278-01
SHEET NO. SP 4.1





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DRAWN BY: J. Lawrey
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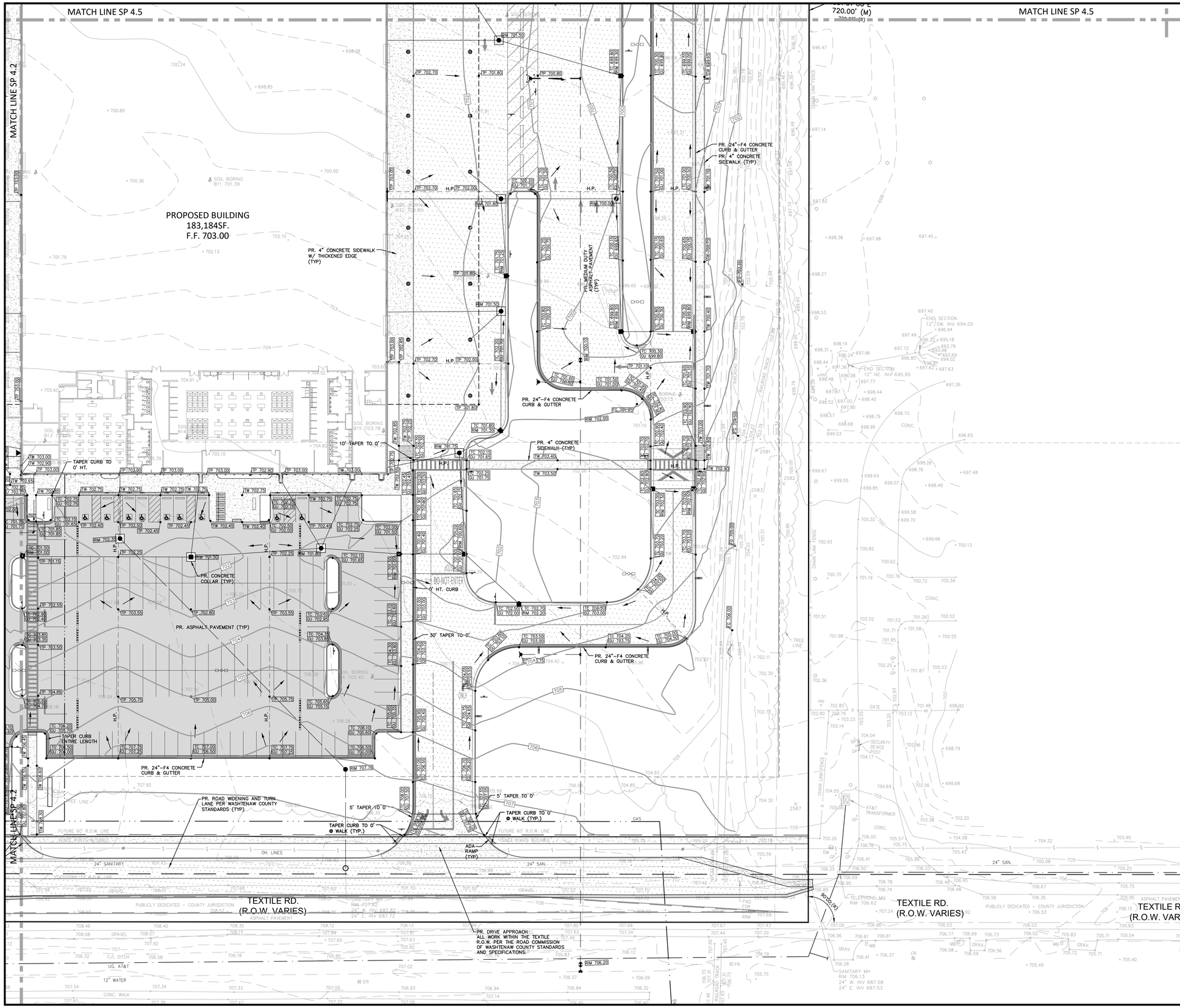
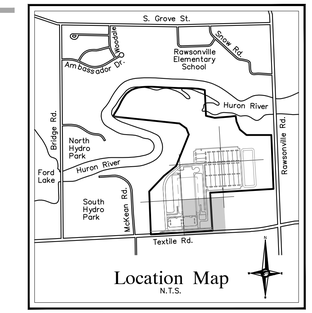
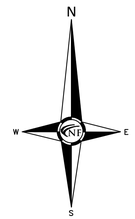
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 4.2







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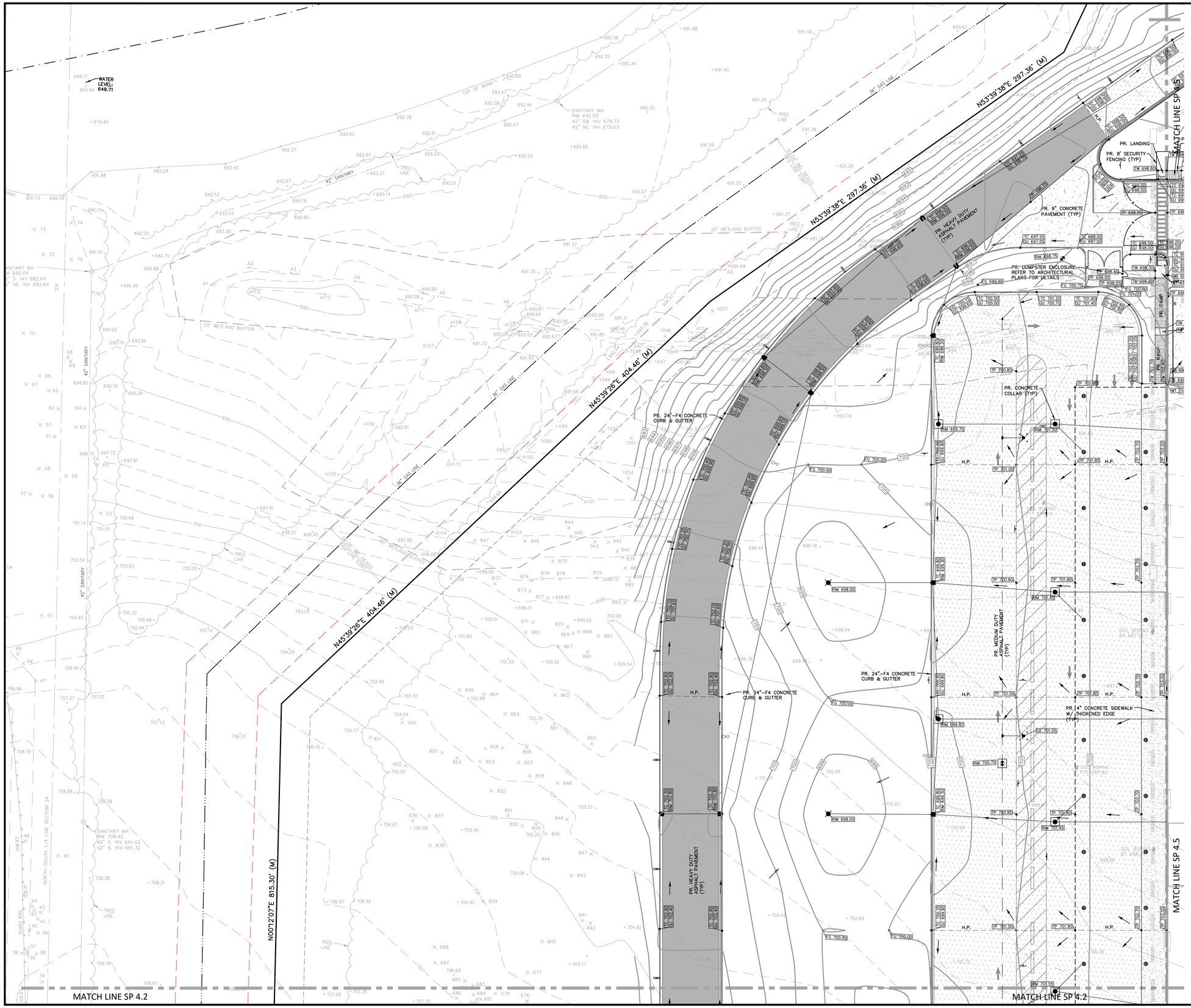
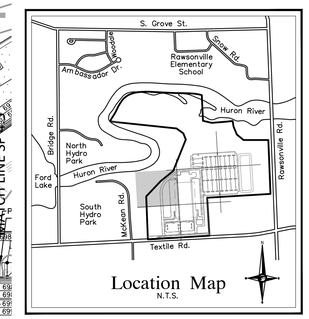
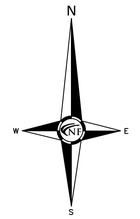
NFE JOB NO. M278-01

SHEET NO. SP 4.3





Location Map
N.T.S.



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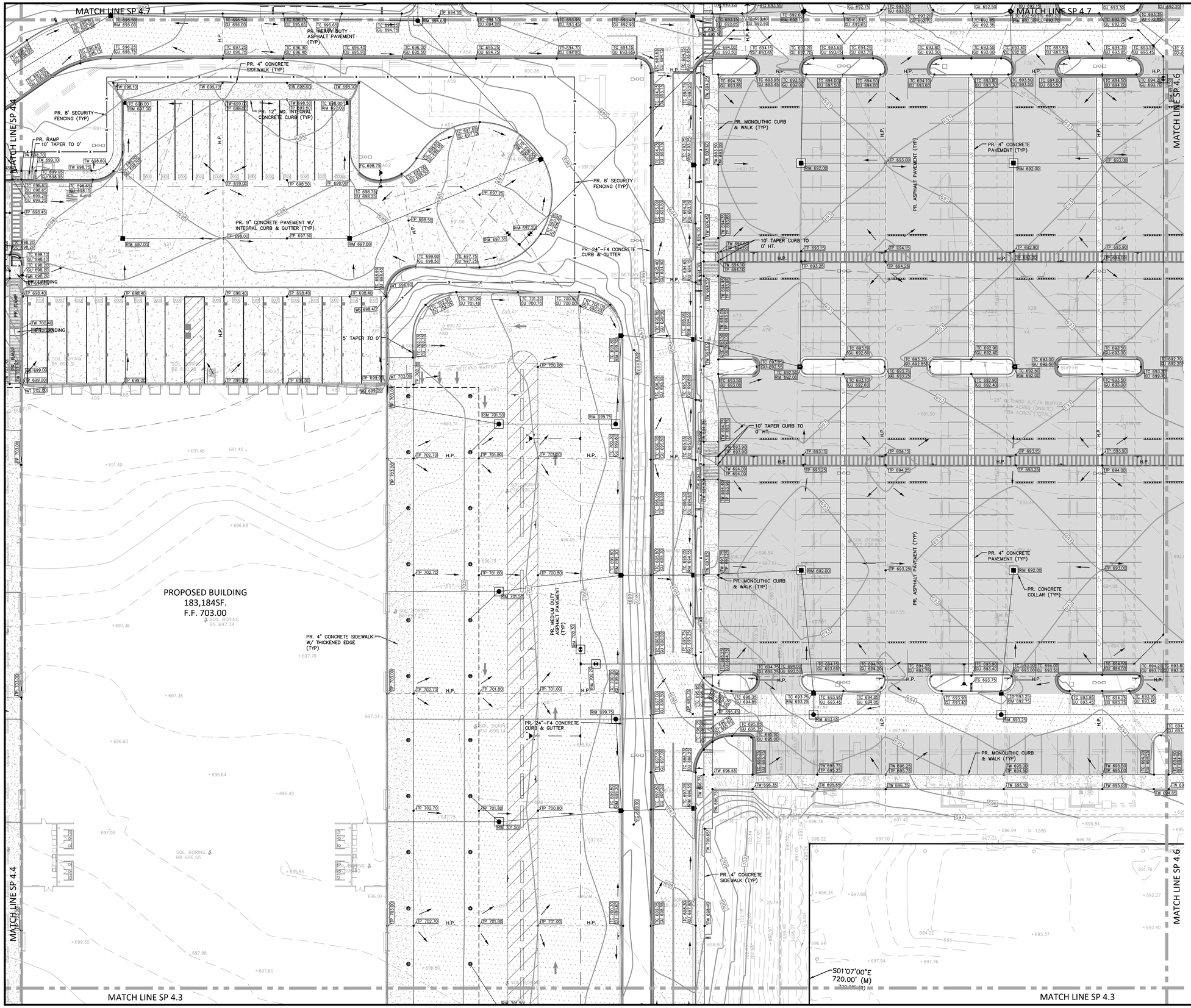

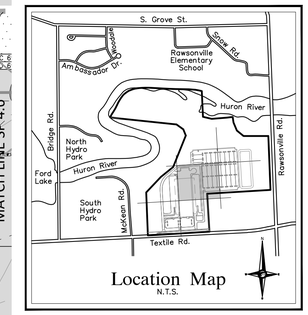

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ENGINEER NO. 54071
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Contact:
Mr. Doug Houser
T: (630) 251-5984

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DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
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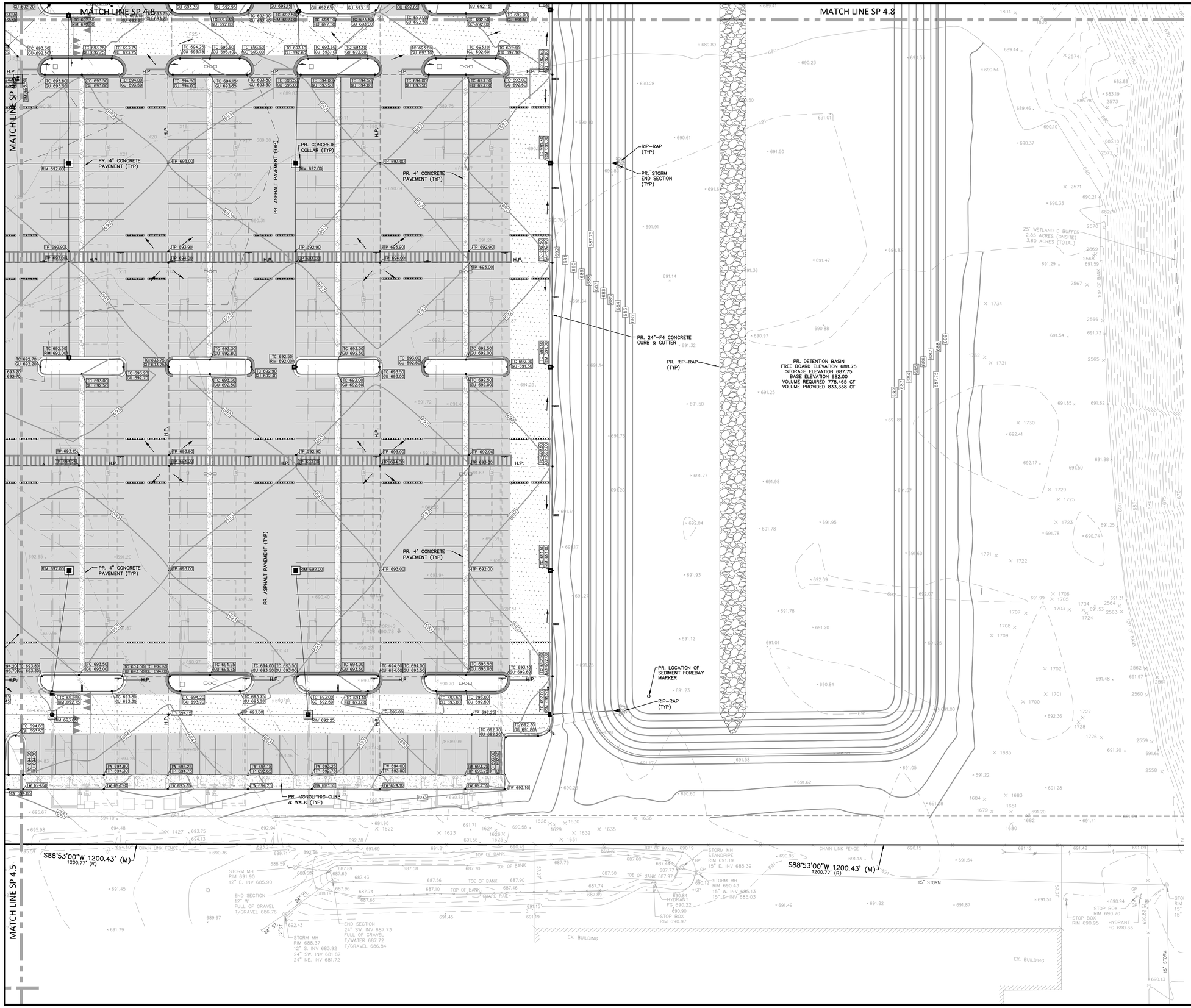
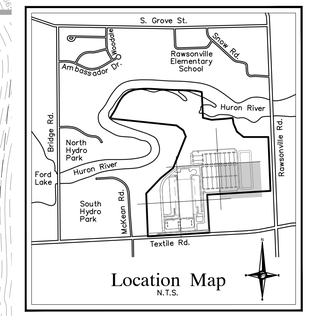
30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 4.5





Location Map
N.T.S.

NOTES

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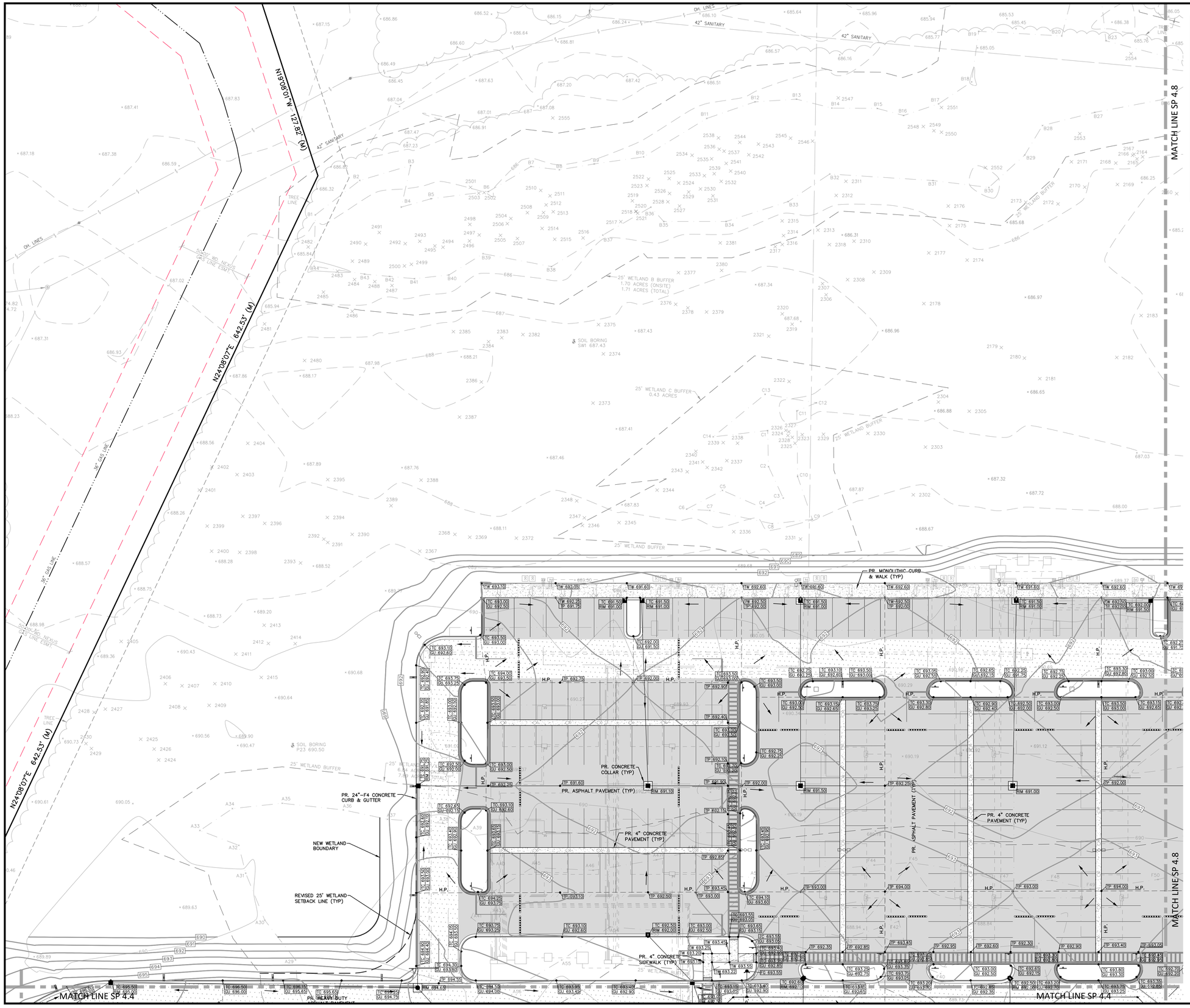

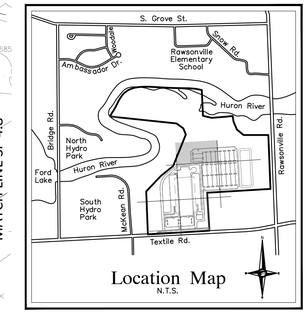

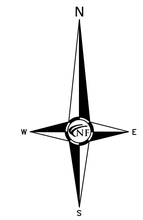

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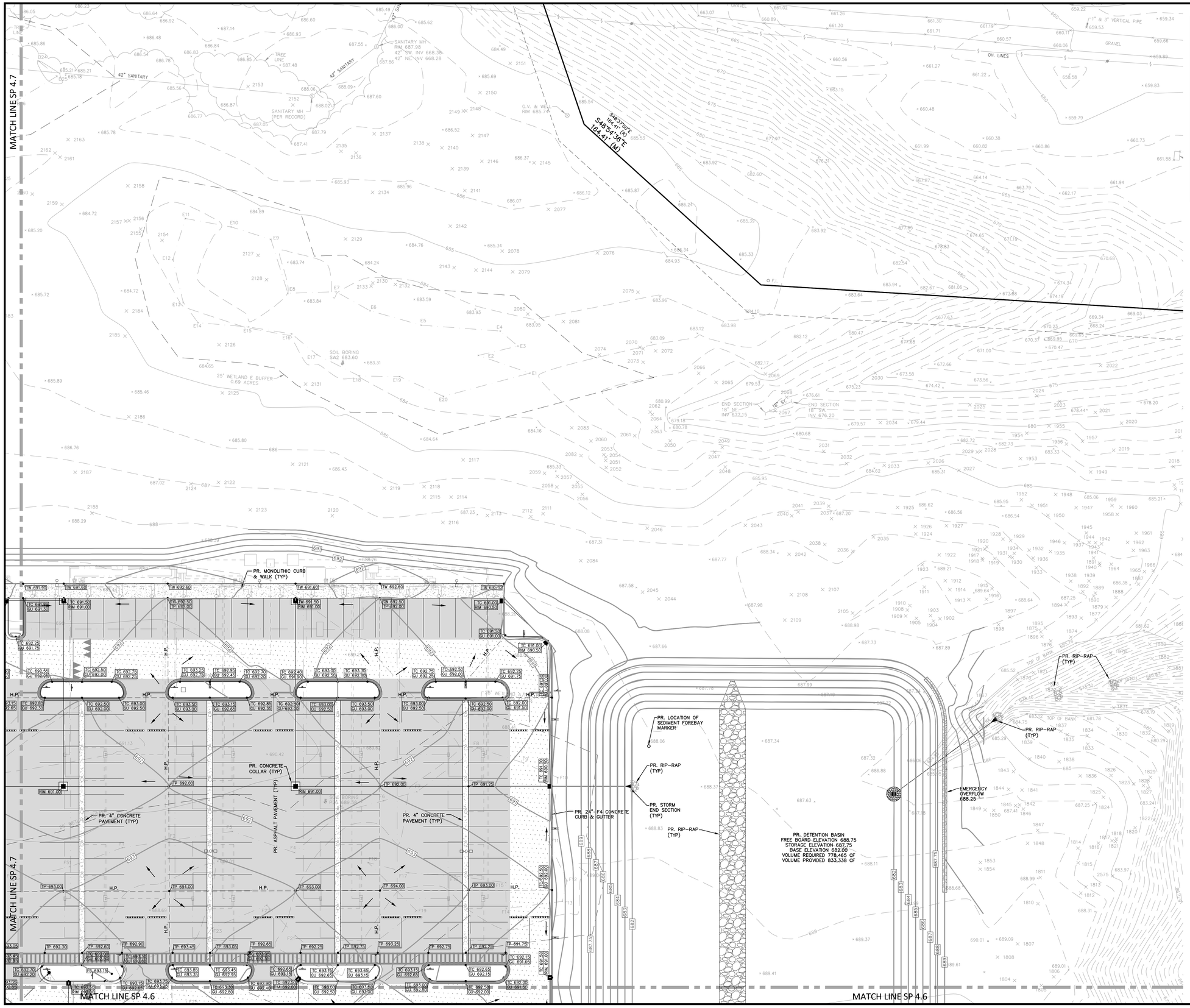

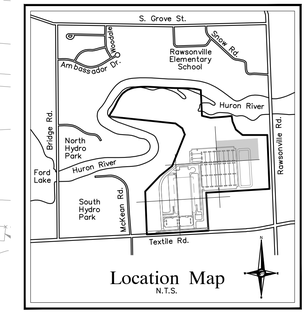

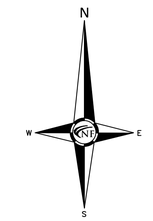

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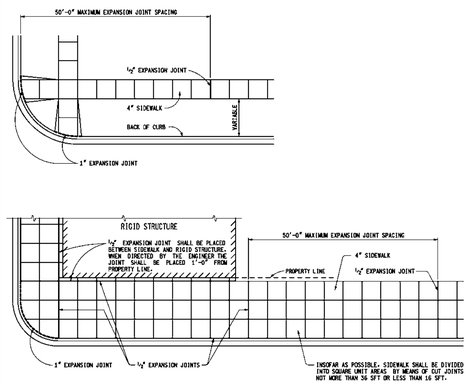
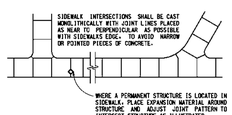
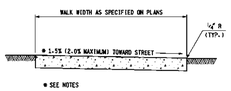


LOCATION OF JOINTS IN CONCRETE SIDEWALK

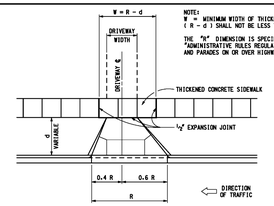


TYPICAL SIDEWALK JOINT LAYOUTS



4" CONCRETE SIDEWALK

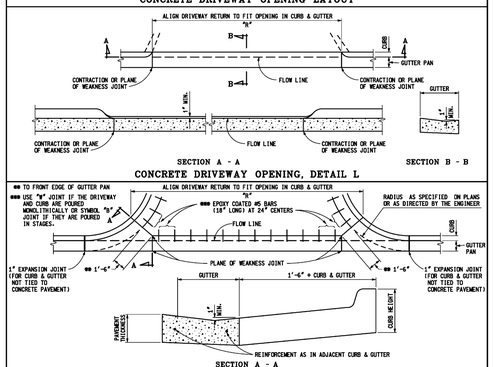
MDOT	DEPARTMENT DIRECTOR Kirk T. Steudle	MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK	
PREPARED BY DESIGN DIVISION	APPROVED BY: DIRECTOR, BUREAU OF FIELD SERVICES		
DRAWN BY: J.L.T.	APPROVED BY: DIRECTOR, BUREAU OF HIGHWAY DEVELOPMENT		
CHECKED BY: R.S.P.		9-30-2014 F.H.W.A. APPROVAL; 7-1-2014 PLAN DATE; R-29-I	SHEET 1 OF 4



NOTE:
W = MINIMUM WIDTH OF THICKENED CONCRETE SIDEWALK.
(R - d) SHALL NOT BE LESS THAN DRIVEWAY WIDTH.

THE "R" DIMENSION IS SPECIFIED IN THE PUBLICATION "ADMINISTRATIVE RULES REGULATING DRIVEWAYS, BANNERS AND PARADES ON OR OVER HIGHWAYS".

CONCRETE DRIVEWAY OPENING LAYOUT



SECTION A - A

CONCRETE DRIVEWAY OPENING, DETAIL M

NOTE:
FOR ROADWAYS WITH CONCRETE PAVEMENTS, LONGITUDINAL LANE TIES WILL BE CONTINUOUS THROUGH THE DRIVEWAY OPENING AND THE SPACING OF THE #5 BARS IN CONCRETE DRIVEWAYS SHALL BE ADJUSTED TO AVOID CONFLICT WITH THE LONGITUDINAL LANE TIES.

		MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK	
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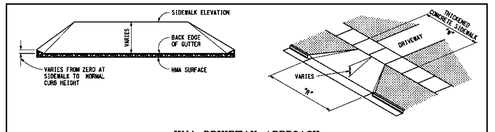
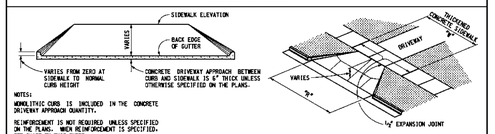


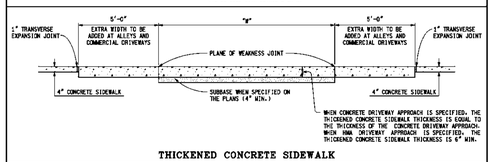
HMA DRIVEWAY APPROACH
(TO BE USED WITH DETAIL L)



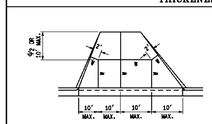
NOTES:
MONOLITHIC CURB IS INCLUDED IN THE CONCRETE DRIVEWAY APPROACH QUANTITY.

REINFORCEMENT IS NOT REQUIRED UNLESS SPECIFIED ON THE PLANS. WHEN REINFORCEMENT IS SPECIFIED, SEE CHART ON THIS SHEET.

CONCRETE DRIVEWAY APPROACH
(TO BE USED WITH DETAIL L OR W)



THICKENED CONCRETE SIDEWALK



ADJUST DRIVEWAY JOINTS AS NEEDED TO ALIGN WITH ANY COINCIDING TRANSVERSE PAVEMENT JOINTS.

JOINT LAYOUT IS AS INDICATED OR AS DIRECTED BY THE ENGINEER.

INTERMEDIATE DRIVEWAY JOINT DETAILS

REINFORCEMENT FOR CONCRETE DRIVEWAYS		
CONCRETE DRIVEWAY THICKNESS	WIRE SIZE (6" x 6" MESH)	AVERAGE WEIGHT (LBS/100 SFT)
LESS THAN 8"	W1.4	21
	W2.9	42
8" OR GREATER	USE WIRE FABRIC REINFORCEMENT SPECIFIED ON STANDARD PLAN R-37-SERIES	

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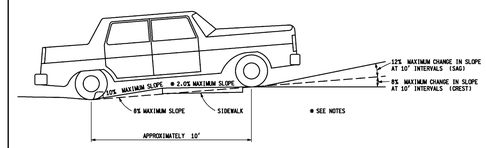
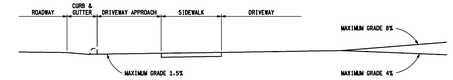


LOW VOLUME COMMERCIAL OR RESIDENTIAL DRIVEWAY SLOPES



COMMERCIAL DRIVEWAY PROFILE FOR MAJOR TRAFFIC GENERATORS

NOTES:

FOR DRIVEWAY DESIGN REFER ALSO TO "ADMINISTRATIVE RULES REGULATING DRIVEWAYS, BANNERS, AND PARADES ON OR OVER HIGHWAYS" AND GEOMETRIC DESIGN G-680-SERIES, COMMERCIAL DRIVEWAYS.

FOR CURB AND GUTTER DETAILS, SEE STANDARD PLAN R-30-SERIES.

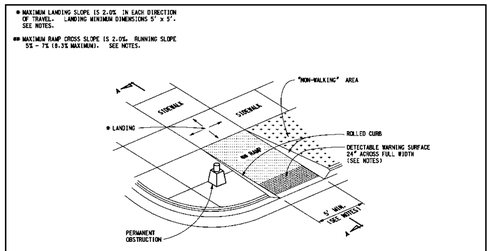
TRANSVERSE SIDEWALK SLOPES ARE TYPICALLY 1.5% (2.0% MAXIMUM). IN ORDER TO MEET SITE CONDITIONS, IF THE TRANSVERSE SLOPE IS REQUIRED TO BE LESS THAN 1.5%, LONGITUDINAL DRAINAGE MUST BE PROVIDED.

WHEN SETTING GRADES FOR COMMERCIAL DRIVES, THE TYPES OF VEHICLES USING THE DRIVE SHOULD BE CONSIDERED.

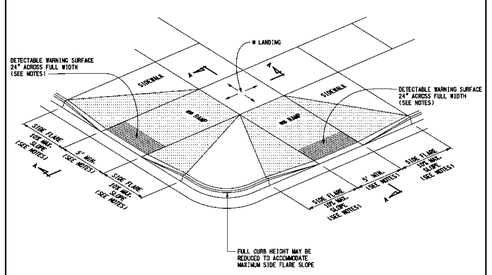
		MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR DRIVEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK	
		9-30-2014 F.H.W.A. APPROVAL; 7-1-2014 PLAN DATE; R-29-I	SHEET 4 OF 4

* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.



CURB RAMP TYPE R
(ROLLED SIDES)

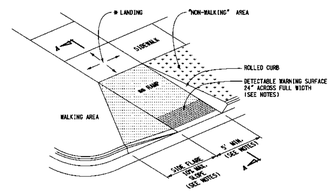


CURB RAMP TYPE F
(FLARED SIDES, TWO RAMPS SHOWN)

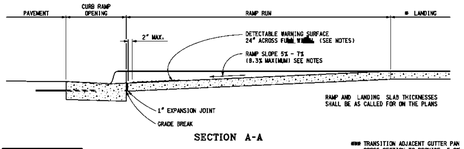
MDOT	DEPARTMENT DIRECTOR Paul C. Ajegba	MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR CURB RAMP AND DETECTABLE WARNING DETAILS	
PREPARED BY DESIGN DIVISION	APPROVED BY: DIRECTOR, BUREAU OF FIELD SERVICES		
DRAWN BY: J.L.T.	APPROVED BY: DIRECTOR, BUREAU OF DEVELOPMENT		
CHECKED BY: R.S.P.		5-8-2020 F.H.W.A. APPROVAL; PLAN DATE; R-28-J	SHEET 1 OF 7

* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.



CURB RAMP TYPE RF
(ROLLED / FLARED SIDES)

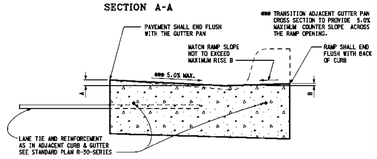


SECTION A-A

CURB TYPE	MAXIMUM RISE (INCHES) A	B
B1	¾	1
B2	¾	1
B3	¾	1
D1	¾	1
D2	¾	1
D3	¾	1
C1	½	½
C2	½	½
C3	½	½
C4	½	½
C5	1	½
C6	1	½
F1	½	½
F2	½	½
F3	½	½
F4	½	½
F5	1	½
F6	1	½

FOR CURB TYPES SEE STANDARD PLAN R-30-SERIES

** TRANSITION ADJACENT GUTTER PAN CROSS SECTION TO PROVIDE 5.0% MAXIMUM COUNTER SLOPE across THE RAMP OPENING.

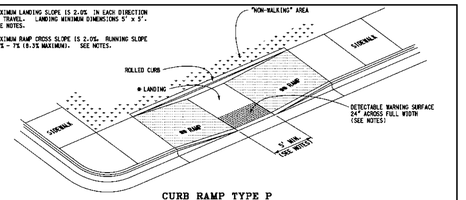


SECTION THROUGH CURB RAMP OPENING
(TYPICAL ALL RAMP TYPES)

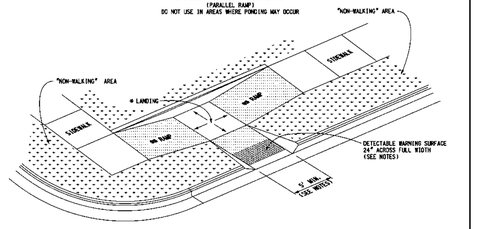
		MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR CURB RAMP AND DETECTABLE WARNING DETAILS	
		5-8-2020 F.H.W.A. APPROVAL; PLAN DATE; R-28-J	SHEET 2 OF 7

* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.

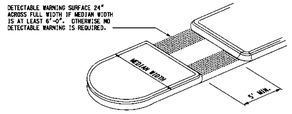
** MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.



CURB RAMP TYPE P
(PARALLEL RAMP)
DO NOT USE IN AREAS WHERE PONDING MAY OCCUR



CURB RAMP TYPE C
(COMBINATION RAMP)

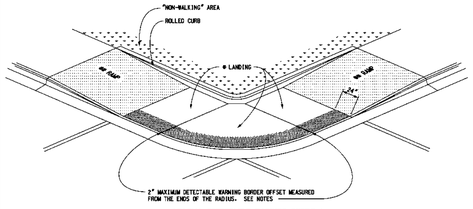


CURB RAMP TYPE M
(MEDIAN ISLAND)

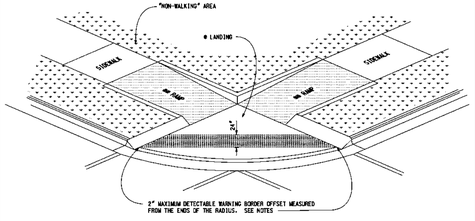
		MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR CURB RAMP AND DETECTABLE WARNING DETAILS	
		5-8-2020 F.H.W.A. APPROVAL; PLAN DATE; R-28-J	SHEET 3 OF 7

* MAXIMUM LANDING SLOPE IS 2.0% IN EACH DIRECTION OF TRAVEL. LANDING MINIMUM DIMENSIONS 5' x 5'. SEE NOTES.

** MAXIMUM RAMP CROSS SLOPE IS 2.0%. RUNNING SLOPE 5% - 7% (8.3% MAXIMUM). SEE NOTES.



(RADIAL DETECTABLE WARNING SHOWN)



(TANGENT DETECTABLE WARNING SHOWN)

CURB RAMP TYPE D
(DEPRESSED CORNER)
USE ONLY WHEN INDEPENDENT DIRECTIONAL RAMPS CAN NOT BE CONSTRUCTED FOR EACH CROSSING DIRECTION

		MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF DEVELOPMENT STANDARD PLAN FOR CURB RAMP AND DETECTABLE WARNING DETAILS	
		5-8-2020 F.H.W.A. APPROVAL; PLAN DATE; R-28-J	SHEET 4 OF 7

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

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FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL
STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

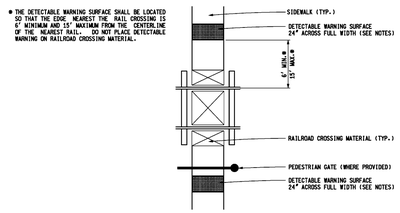
SHEET
MDOT Notes & Details

811 Know what's below Call before you dig.

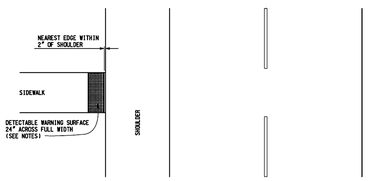
DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: N.T.S.

NFE JOB NO. M278-01
SHEET NO. SP 4.9



DETECTABLE WARNING AT RAILROAD CROSSING

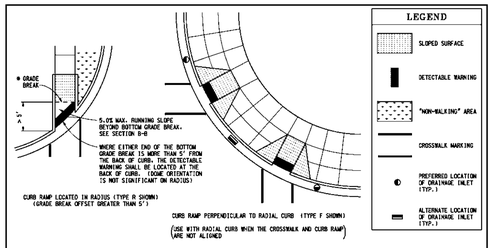


DETECTABLE WARNING AT FLUSH SHOULDER OR ROADWAY

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

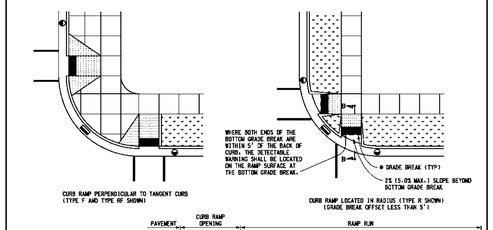
CURB RAMP AND DETECTABLE WARNING DETAILS

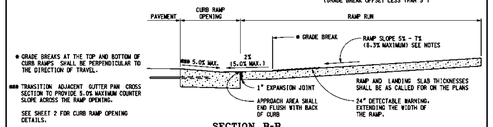
F.H.W.A. APPROVAL	5-8-2020 PLAN DATE	R-28-J	SHEET 5 OF 7



LEGEND

- SLOPED SURFACE
- DETECTABLE WARNING
- "NON-WALKING" AREA
- CROSSWALK MARKING
- PREFERRED LOCATION OF DRAINAGE INLET (TYP.)
- ALTERNATE LOCATION OF DRAINAGE INLET (TYP.)



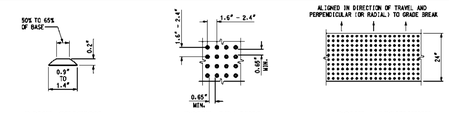


SECTION B-B
CURB RAMP ORIENTATION

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

F.H.W.A. APPROVAL	5-8-2020 PLAN DATE	R-28-J	SHEET 6 OF 7



DOME SECTION | DOME SPACING | DOME ALIGNMENT

DETECTABLE WARNING DETAILS

NOTES:

DETAILS SPECIFIED ON THIS PLAN APPLY TO ALL CONSTRUCTION, RECONSTRUCTION, OR ALTERATION OF STREETS, CURBS, OR SIDEWALKS IN THE PUBLIC RIGHT OF WAY.

CURB RAMPS ARE TO BE LOCATED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

RAMPS SHALL BE PROVIDED AT ALL CORNERS OF AN INTERSECTION WHERE THERE IS EXISTING OR PROPOSED SIDEWALK AND CURB. RAMPS SHALL ALSO BE PROVIDED AT MARKED AND/OR SIGNALIZED MID-BLOCK CROSSINGS.

SURFACE TEXTURE OF THE RAMP SHALL BE THAT OBTAINED BY A COARSE BROOMING, TRANSVERSE TO THE RUNNING SLOPE.

SIDEWALK SHALL BE RAMPED WHERE THE DRIVEWAY CURB IS EXTENDED ACROSS THE WALK.

CARE SHALL BE TAKEN TO ASSURE A UNIFORM GRADE ON THE RAMP, WHERE CONDITIONS PERMIT. IT IS DESIRABLE THAT THE SLOPE OF THE RAMP BE IN ONLY ONE DIRECTION, PARALLEL TO THE DIRECTION OF TRAVEL.

RAMP WIDTH SHALL BE INCREASED, IF NECESSARY, TO ACCOMMODATE SIDEWALK snow REMOVAL EQUIPMENT NORMALLY USED BY THE MUNICIPALITY.

WHEN 6' MINIMUM WIDTHS ARE NOT PRACTICABLE, RAMP WIDTH MAY BE REDUCED TO NOT LESS THAN 4' AND LANDINGS TO NOT LESS THAN 4' x 4'.

CURB RAMPS WITH A RUNNING SLOPE ≤5% DO NOT REQUIRE A TOP LANDING. HOWEVER, ANY CONTINUOUS SIDEWALK OR PEDESTRIAN ROUTE CROSSING THROUGH OR INTERSECTING THE CURB RAMP MUST INDEPENDENTLY MAINTAIN A CROSS SLOPE NOT GREATER THAN 2% PERPENDICULAR TO ITS OWN DIRECTION(S) OF TRAVEL.

DETECTABLE WARNING SURFACE COVERAGE IS 24" MINIMUM IN THE DIRECTION OF RAMP/PATH TRAVEL AND THE FULL WIDTH OF THE RAMP/PATH OPENING EXCLUDING CURVED OR FLARED CURB TRANSITION AREAS. A BORDER OFFSET NOT GREATER THAN 2" MEASURED ALONG THE EDGES OF THE DETECTABLE WARNING IS ALLOWABLE. FOR RADIAL CURB THE OFFSET IS MEASURED FROM THE ENDS OF THE RADIUS.

FOR NEW ROADWAY CONSTRUCTION, THE RAMP CROSS SLOPE MAY NOT EXCEED 2.0%. FOR ALTERATIONS TO EXISTING ROADWAYS, THE CROSS SLOPE MAY BE TRANSITIONED TO MEET AN EXISTING ROADWAY GRADE. THE CROSS SLOPE TRANSITION SHALL BE APPLIED UNIFORMLY OVER THE FULL LENGTH OF THE RAMP.

THE MAXIMUM RUNNING SLOPE OF 8.3% IS RELATIVE TO A FLAT (0%) REFERENCE. HOWEVER, IT SHALL NOT REQUIRE ANY RAMP OR SERIES OF RAMPS TO EXCEED 15 FEET IN LENGTH NOT INCLUDING LANDINGS OR TRANSITIONS.

DRAINAGE STRUCTURES SHOULD NOT BE PLACED IN LINE WITH RAMPS. THE LOCATION OF THE RAMP SHOULD TAKE PRECEDENCE OVER THE LOCATION OF THE DRAINAGE STRUCTURE. WHERE EXISTING DRAINAGE STRUCTURES ARE LOCATED IN THE RAMP PATH OF TRAVEL, USE A MANUFACTURER'S ADA COMPLIANT GRATE. OPENINGS SHALL NOT BE GREATER THAN ½". ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

THE TOP OF THE JOINT FILLER FOR ALL RAMP TYPES SHALL BE FLUSH WITH THE ADJACENT CONCRETE.

CROSSWALK AND STOP LINE MARKINGS, IF USED, SHALL BE SO LOCATED AS TO STOP TRAFFIC SHORT OF RAMP CROSSINGS. SPECIFIC DETAILS FOR MARKING APPLICATIONS ARE GIVEN IN THE "MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

FLARED SIDES WITH A SLOPE OF 10% MAXIMUM, MEASURED ALONG THE ROADSIDE CURB LINE, SHALL BE PROVIDED WHERE AN UNOBSTRUCTED CIRCULATION PATH LATERALLY CROSSES THE CURB RAMP. FLARED SIDES ARE NOT REQUIRED WHERE THE RAMP IS BORDERED BY LANDSCAPING, UNPAVED SURFACE OR PERMANENT FIXED OBJECTS. WHERE THEY ARE NOT REQUIRED, FLARED SIDES CAN BE CONSIDERED IN ORDER TO AVOID SHARP CURB RETURNS AT RAMP OPENINGS.

DETECTABLE WARNING PLATES MUST BE INSTALLED USING FABRICATED OR FIELD CUT UNITS CAST AND/OR ANCHORED IN THE PAVEMENT TO RESIST SHIFTING OR WEAVING.

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN FOR

CURB RAMP AND DETECTABLE WARNING DETAILS

F.H.W.A. APPROVAL	5-8-2020 PLAN DATE	R-28-J	SHEET 7 OF 7

DISTANCE BETWEEN TRAFFIC SIGNS, "D"

"D" DISTANCES	POSTED SPEED LIMIT, MPH (PRIOR TO WORK AREA)										
	25	30	35	40	45	50	55	60	65	70	75
D (FEET)	250	300	350	400	450	500	550	600	650	700	750

GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE, "B"

"B" LENGTHS	SPEED* MPH (PRIOR TO WORK AREA)											
	20	25	30	35	40	45	50	55	60	65	70	75
B (FEET)	33	50	83	132	181	230	279	329	411	476	542	625

* POSTED SPEED, OFF-PEAK 85TH PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED.

MINIMUM MERGING TAPER LENGTH, "L" (FEET)

OFFSET (FEET)	POSTED SPEED LIMIT, MPH (PRIOR TO WORK AREA)										
	25	30	35	40	45	50	55	60	65	70	75
1	11	15	21	27	45	50	55	60	65	70	75
2	21	30	41	54	90	100	110	120	130	140	150
3	32	45	62	80	135	150	165	180	195	210	225
4	42	60	82	107	180	200	220	240	260	280	300
5	53	75	103	134	225	250	275	300	325	350	375
6	63	90	123	160	270	300	330	360	390	420	450
7	73	105	143	187	315	350	385	420	455	490	525
8	84	120	164	214	360	400	440	480	520	560	600
9	94	135	184	240	405	450	495	540	585	630	675
10	105	150	205	267	450	500	550	600	650	700	750
11	115	165	225	294	495	550	605	660	715	770	825
12	125	180	245	320	540	600	660	720	780	840	900
13	136	195	266	347	585	650	715	780	845	910	975
14	146	210	286	374	630	700	770	840	910	980	1050
15	157	225	307	400	675	750	825	900	975	1050	1125

NOT TO SCALE

MDOT Michigan Department of Transportation	NOT TO SCALE	WORK ZONE TRAFFIC CONTROL TYPICAL NO: 101-GEN-SPACING-CHARTS	"B", "D" AND "L" TABLES CHANNELIZING DEVICE SPACING, SIGN BORDER KEY, AND ROLL-AHEAD SPACING	DATE: NOV 2020 SHEET: 1 OF 3
FILE: 101-GEN-SPACING-CHARTS.dgn				

THE FORMULAS FOR THE MINIMUM LENGTH OF A MERGING TAPER IN DERIVING THE "L" VALUES SHOWN IN THE ABOVE TABLES ARE AS FOLLOWS:

$$"L" = \frac{W \times S^2}{60}$$ WHERE POSTED SPEED PRIOR TO THE WORK AREA IS 40 MPH OR LESS

$$"L" = W \times S$$ WHERE POSTED SPEED PRIOR TO THE WORK AREA IS 45 MPH OR GREATER

L = MINIMUM LENGTH OF MERGING TAPER
S = POSTED SPEED LIMIT IN MPH PRIOR TO WORK AREA
W = WIDTH OF OFFSET

TYPES OF TAPERS	TAPER LENGTH
UPSTREAM TAPERS	
MERGING TAPER	L - MINIMUM
SHIFTING TAPER	1/2 L - MINIMUM
SHOULDER TAPER	1/3 L - MINIMUM
2 TO 1 LANE ROAD TAPER	100' - MAXIMUM
DOWNSTREAM TAPERS (USE IS RECOMMENDED)	100' (PER LANE)

MAXIMUM SPACING FOR CHANNELIZING DEVICES

WORK ZONE SPEED LIMIT	DRUM AND 42" DEVICE SPACING (FT)		NIGHTTIME 42" DEVICE SPACING (FT)	
	TAPER	TANGENT	TAPER	TANGENT
< 45 MPH	1 x SPEED LIMIT	2 x SPEED LIMIT	25 FEET	50 FEET
≥ 45 MPH	50 FEET	100 FEET	25 FEET	50 FEET

SIGN OUTLINE KEY

DASHED OUTLINES INDICATE A SIGN THAT EXISTS ON SITE, AND NEEDS TO BE COVERED.

SOLID OUTLINES INDICATE A SIGN THAT IS TO BE PLACED ON THE PROJECT

NOT TO SCALE

MDOT Michigan Department of Transportation	NOT TO SCALE	WORK ZONE TRAFFIC CONTROL TYPICAL NO: 101-GEN-SPACING-CHARTS	"B", "D" AND "L" TABLES CHANNELIZING DEVICE SPACING SIGN BORDER KEY AND ROLL-AHEAD SPACING	DATE: NOV 2020 SHEET: 2 OF 3
FILE: 101-GEN-SPACING-CHARTS.dgn				

GUIDELINES FOR ROLL-AHEAD DISTANCES FOR TMA VEHICLES - TEST LEVEL 2

WEIGHT OF TMA VEHICLE	PREVAILING SPEED (POSTED SPEED PRIOR TO WORK ZONE)	ROLL-AHEAD DISTANCE* (DISTANCE FROM FRONT OF TMA VEHICLE TO WORK AREA)
5.5 TONS (STATIONARY)	40 MPH OR LESS	25 FT

* ROLL-AHEAD DISTANCES ARE CALCULATED USING A 4,410 POUND IMPACT VEHICLE WEIGHT.

GUIDELINES FOR ROLL-AHEAD DISTANCES FOR TMA VEHICLES - TEST LEVEL 3

WEIGHT OF TMA VEHICLE	PREVAILING SPEED (POSTED SPEED PRIOR TO WORK ZONE)	ROLL-AHEAD DISTANCE* (DISTANCE FROM FRONT OF TMA VEHICLE TO WORK AREA)
5 TONS (MOBILE)	45 MPH	100 FT
	50-55 MPH	150 FT
	60-75 MPH	175 FT
12 TONS (STATIONARY)	45 MPH	25 FT
	50-55 MPH	25 FT
	60-75 MPH	50 FT

* ROLL-AHEAD DISTANCES ARE CALCULATED USING A 10,000 POUND IMPACT VEHICLE WEIGHT.

MDOT Michigan Department of Transportation	NOT TO SCALE	WORK ZONE TRAFFIC CONTROL TYPICAL NO: 101-GEN-SPACING-CHARTS	"B", "D" AND "L" TABLES CHANNELIZING DEVICE SPACING SIGN BORDER KEY AND ROLL AHEAD SPACING	DATE: NOV 2020 SHEET: 3 OF 3
FILE: 101-GEN-SPACING-CHARTS.dgn				

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
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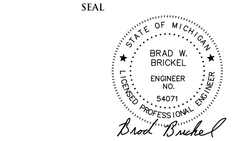
WWW.NOWAKFRAUS.COM

SEAL



PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
MDOT Notes & Details

811 Know what's below. Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: N.T.S.

NFE JOB NO. M278-01
SHEET NO. SP 4.10

THE FOLLOWING NOTES APPLY IF CALLED FOR ON THE TRAFFIC CONTROL TYPICAL

GENERAL NOTES

G1: SEE GEN-SPACING-CHARTS FOR COMMON VALUES INCLUDING:
D = DISTANCE BETWEEN TRAFFIC CONTROL DEVICES
L = MINIMUM LENGTH OF TAPER
B = LENGTH OF LONGITUDINAL BUFFER
ROLL AHEAD DISTANCE

G2: DISTANCE BETWEEN SIGNS, "D", THE VALUES FOR WHICH ARE SHOWN IN TYPICAL GEN-KEY ARE APPROXIMATE AND MAY NEED ADJUSTING AS DIRECTED BY THE ENGINEER.

G3: ALL TEMPORARY SIGNS, TYPE III BARRICADES, THEIR SUPPORT SYSTEMS AND LIGHTING MUST MEET NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT 350 (NCHRP 350) TEST LEVEL 3, OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) TL-3 AS WELL AS THE CURRENT EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE STANDARD PLANS AND APPLICABLE SPECIAL PROVISIONS. ONLY DESIGNS AND MATERIALS APPROVED BY MDOT WILL BE ALLOWED.

G4: DO NOT STORE EQUIPMENT, MATERIALS OR PERFORM WORK IN ESTABLISHED BUFFER AREAS.

G5: ALL EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH EITHER PROPOSED CHANGES IN TRAFFIC PATTERNS OR PROPOSED TEMPORARY TRAFFIC MARKINGS SHALL BE REMOVED BEFORE ANY CHANGE IS MADE IN THE TRAFFIC PATTERN. EXCEPTION WILL BE MADE FOR TRAFFIC PATTERNS FOR WORK LESS THAN THREE DAYS THAT ARE ADEQUATELY DELINEATED BY OTHER TRAFFIC CONTROL DEVICES.

SIGN NOTES

S1: ALL NON-APPLICABLE SIGNING WITHIN THE CIA MUST BE MODIFIED TO FIT CONDITIONS, COVERED, OR REMOVED. FOR GUIDANCE SEE THE WORK ZONE SAFETY AND MOBILITY MANUAL, SECTIONS 6.01.09 AND 6.01.10.

S2: R5-18b SIGNS ARE ONLY REQUIRED ON FREEWAY PROJECTS WITH A DURATION OF 15 DAYS OR LONGER OR NON-FREEWAY PROJECTS WITH A DURATION OF 90 DAYS OR LONGER. TO APPLY THIS TYPICAL WITHOUT R5-18b SIGNS, REMOVE THE SIGNS AND CONSOLIDATE THE SEQUENCE AS APPROPRIATE.

S3: R5-18c IS ONLY REQUIRED IN THE INITIAL SIGNING SEQUENCE IN THE WORK ZONE. OMIT THIS SIGN IN SUBSEQUENT SEQUENCES IN THE SAME WORK ZONE.

S4: ADDITIONAL SIGNING AND/OR ELONGATED SIGNING SEQUENCES SHOULD BE USED WHEN TRAFFIC VOLUMES ARE SIGNIFICANT ENOUGH TO CREATE BACKUPS BEYOND THE W20-5 SIGNS.

S5: PLACE ADDITIONAL SPEED LIMIT SIGNS REFLECTING THE WORK ZONE SPEED AFTER EACH MAJOR CROSSROAD THAT INTERSECTS THE WORK ZONE, OR AFTER EACH ENTRANCE RAMP THAT COMES ONTO THE FREEWAY WHERE THE REDUCED SPEED IS IN EFFECT. PLACE ADDITIONAL SPEED LIMIT SIGNS AT INTERVALS ALONG THE ROADWAY SUCH THAT NO SPEED LIMIT SIGNS ARE MORE THAN 2 MILES APART. WHEN REDUCED SPEED LIMITS ARE UTILIZED IN THE WORK AREA, PLACE ADDITIONAL SPEED LIMIT SIGNS RETURNING TRAFFIC TO ITS NORMAL SPEED BEYOND THE LIMITS OF THE WORK AREA AS INDICATED. IF PERMANENT SIGNS DISPLAYING THE CORRECT SPEED LIMIT ARE POSTED, OMIT ALL W3-5b AND R2-1 SIGNS AND REDUCE SPACING ACCORDINGLY.

S6: FABRICATE SPECIAL SIGNS IN ACCORDANCE WITH CURRENT SIGNING DESIGN STANDARDS.

S7: PLACE ADDITIONAL R8-3 SIGNS AT A MAXIMUM 500' SPACING THROUGHOUT THE WORK ZONE.

S8: WHEN SPEED LIMIT SIGNS CANNOT BE PLACED SIDE BY SIDE AS SHOWN, PLACE THEM "D" DISTANCE APART.

S9: STOP SIGNS NOT REQUIRED IF SIGNALS ARE ON 4-WAY FLASHING RED. STOP AHEAD SIGNS ARE NOT REQUIRED IF THERE IS ADEQUATE VISIBILITY OF THE STOP SIGN OR IF SIGNALS ARE BEING USED TO CONTROL TRAFFIC.

S10: PLACE REDUCED SPEED ZONE AHEAD SIGN (W3-5b) HERE WHEN USING A SPEED REDUCTION IN THIS DIRECTION.

TRAFFIC REGULATOR NOTES

TR1:TRAFFIC REGULATORS MUST FOLLOW ALL THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS, THE STANDARD PLANS AND APPLICABLE SPECIAL PROVISIONS, THE CURRENT VERSIONS OF THE TRAFFIC REGULATOR'S INSTRUCTION MANUAL AND THE VIDEO "HOW TO SAFELY REGULATE TRAFFIC IN MICHIGAN". THE MAXIMUM DISTANCE BETWEEN THE TRAFFIC REGULATORS IS DETERMINED BY THE ROADWAY ADT, GEOMETRICS, AND AS DIRECTED BY THE ENGINEER.

TR2:PROVIDE APPROPRIATE BAILOON LIGHTING TO SUFFICIENTLY ILLUMINATE TRAFFIC REGULATOR'S STATIONS WHEN TRAFFIC REGULATING IS ALLOWED DURING THE HOURS OF DARKNESS.

TEMPORARY TRAFFIC CONTROL DEVICE NOTES

TCD1: THE MAXIMUM DISTANCE IN FEET BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD NOT EXCEED 1.0 TIMES THE WORK ZONE SPEED LIMIT IN MPH FOR ROADWAYS WITH A POSTED WORK ZONE SPEED LIMIT LESS THAN 45 MPH AND SHOULD NOT EXCEED 50 FEET ON ROADWAYS WITH A POSTED WORK ZONE SPEED LIMIT OF 45 MPH OR GREATER. THE SPACING FOR 42 INCH CHANNELIZING DEVICE TAPERS ARE NOT TO EXCEED 25 FEET AT NIGHT.

TCD2: THE MAXIMUM DISTANCE IN FEET BETWEEN CHANNELIZING DEVICES IN A TANGENT SHOULD NOT EXCEED TWICE THE WORK ZONE SPEED LIMIT IN MPH FOR ROADWAYS WITH A POSTED WORK ZONE SPEED LIMIT LESS THAN 45 MPH AND SHOULD NOT EXCEED 100 FEET ON ROADWAYS WITH A POSTED WORK ZONE SPEED LIMIT OF 45 MPH OR GREATER. THE SPACING FOR 42 INCH CHANNELIZING DEVICE TANGENTS ARE NOT TO EXCEED 50 FEET AT NIGHT.

TCD3: TYPE III BARRICADES MUST BE LIGHTED FOR OVERNIGHT CLOSURES.

TCD4: WHEN THE HAUL ROAD IS NOT IN USE, PLACE LIGHTED TYPE III BARRICADES WITH "ROAD CLOSED" EXTENDING COMPLETELY ACROSS THE HAUL ROAD.

TCD5: USE VERTICAL PANELS IN LIEU OF THE TYPE B HIGH INTENSITY LIGHT SHOWN IN THE STANDARD PLAN FOR TEMPORARY CONCRETE BARRIER (R-53, AND R-126) WHEN USED WITH A TEMPORARY SIGNAL SYSTEM.

TCD6: PLACE LIGHTED ARROW PANELS AS CLOSE TO THE BEGINNING OF TAPERS AS PRACTICAL, BUT NOT IN A MANNER THAT WILL OBSCURE OR CONFUSE APPROACHING MOTORISTS WHEN PHYSICAL LIMITATIONS RESTRICT PLACEMENT. IN CURBED SECTIONS, IF ARROW BOARD CANNOT BE PLACED BEHIND CURB, PLACE ARROW BOARD IN THE CLOSED LANE AS CLOSE TO THE BEGINNING OF TAPER AS POSSIBLE.

TCD7: ADDITIONAL TYPE III BARRICADES MAY BE REQUIRED TO COMPLETELY CLOSE OFF ROAD FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT.

TCD8: WHERE THE SHIFTED SECTION IS SHORTER THAN 600 FEET, A DOUBLE REVERSE CURVE SIGN (W24-1) CAN BE USED INSTEAD OF THE FIRST REVERSE CURVE SIGN, AND THE SECOND REVERSE CURVE SIGN CAN BE OMITTED.

TCD9: RUMBLE STRIPS ARE TO BE PLACED AS SPECIFIED IN THE CONTRACT. IF NOT SPECIFIED IN THE CONTRACT, PLACE RUMBLE STRIPS AS SHOWN, AND IN ACCORDANCE WITH THE RUMBLE STRIP MANUFACTURER'S RECOMMENDATIONS. AN ARRAY OF RUMBLE STRIPS CONTAINS THREE RUMBLE STRIPS. PLACE THE RUMBLE STRIPS IN THE ARRAY AT A CONSISTENT DISTANCE, BETWEEN 10' AND 20' APART.

TCD10: SEE THE WORK ZONE SAFETY AND MOBILITY MANUAL, PORTABLE CHANGEABLE MESSAGE SIGN GUIDELINES FOR RECOMMENDED AND CORRECT PCMS MESSAGING. STAGGER PCMS THAT ARE ON OPPOSING SIDES OF THE ROAD 1000 FEET FROM EACH OTHER.

RAMP NOTES

RMP1: WHEN CONDITIONS ALLOW, ES-1 SIGNS MUST BE REMOVED OR COVERED AND CHANELIZING DEVICES MUST BE POSITIONED TO ENABLE RAMP TRAFFIC TO DIVERGE IN A FREE MANNER

RMP2: STOP AND YIELD CONDITIONS SHOULD BE AVOIDED WHENEVER PRACTICAL. WHEN CONDITIONS WARRANT, R1-1 SIGNS MAY BE USED IN PLACE OF R1-2 SIGNS. WHEN R-1 SIGNS ARE USED, W3-1 SIGNS MUST BE USED IN PLACE OF W3-2 SIGNS. CONSIDERATION SHOULD BE GIVEN TO CLOSING THE RAMP TO COMPLETE WORK TO ALLOW AN ADEQUATE MERGE DISTANCE. WORK SHOULD BE EXPEDITED TO AVOID THE STOP AND/OR YIELD CONDITIONS.

MDOT Michigan Department of Transportation	NOT TO SCALE	WORK ZONE TRAFFIC CONTROL TYPICAL NO: 102-GEN-NOTES	TRAFFIC CONTROL TYPICALS NOTE SHEET	DATE: NOV 2020 SHEET: 1 OF 2
FILE: 102-GEN-NOTES.dgn				

THE FOLLOWING NOTES APPLY IF CALLED FOR ON THE TRAFFIC CONTROL TYPICAL

SIGNAL NOTES

SIG1: EXISTING SIGNAL MUST BE EITHER 4-WAY FLASHING RED, BAGGED, OR TURNED OFF.

SIG2: SIGNAL IS IN OPERATION.

SIG3: DELINEATE THE WORK ZONE AREA WITH 28 INCH CONES FOR DAYTIME WORK, OR 42 INCH CHANNELIZING DEVICES FOR NIGHTTIME WORK.

SIG4: THE CONTRACTOR MUST HAVE A DESIGNATED SPOTTER IF THE AERIAL BUCKET TRUCK IS LOCATED OVER ACTIVE TRAVEL LANES.

SIG5: THE LOWEST POINT OF THE BUCKET MAY NOT TRAVEL BELOW 14 FOOT VERTICAL CLEARANCE. THE CONTRACTOR MUST UTILIZE AN ALTERNATE SET UP, OR PLACE THE INTERSECTION IN A 4 WAY STOP IF THE 14 FOOT VERTICAL CLEARANCE IS COMPROMIZED. USE TRAFFIC REGULATORS TO CONTROL TRAFFIC THROUGH THE INTERSECTION WHEN TRAFFIC IS PLACED IN A 4 WAY STOP.

SIG6: DELINEATE THE TRUCK WITH CHANNELIZING DEVICES. THE POSITION OF THE TRUCK MAY BE MOVED TO FACILITATE WORK.

MAINTENANCE AND SURVEYING NOTES

MS1: WHENEVER STOPPING SIGHT DISTANCE EXISTS TO THE REAR, THE SHADOW VEHICLES SHOULD MAINTAIN THE RECOMENDED DISTANCE FROM THE WORK AREA AND PROCEEED AT THE SAME SPEED. THE SHADOW VEHICLE SHOULD SLOW DOWN AND TRAVEL AT A FARTHER DISTANCE TO PROVIDE ADEQUATE SIGHT DISTANCE IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES.

MS2: WORKERS OUTSIDE OF VEHICLES MUST ONLY WORK WITHIN 150' OF WORK VEHICLES WITH AN ACTIVATED BEACON, BETWEEN THE "BEGIN WORK CONVOY" SIGN AND THE "END WORK CONVOY" SIGN, OR BETWEEN THE "WORK ZONE BEGINS" AND "END ROAD WORK" SIGN.

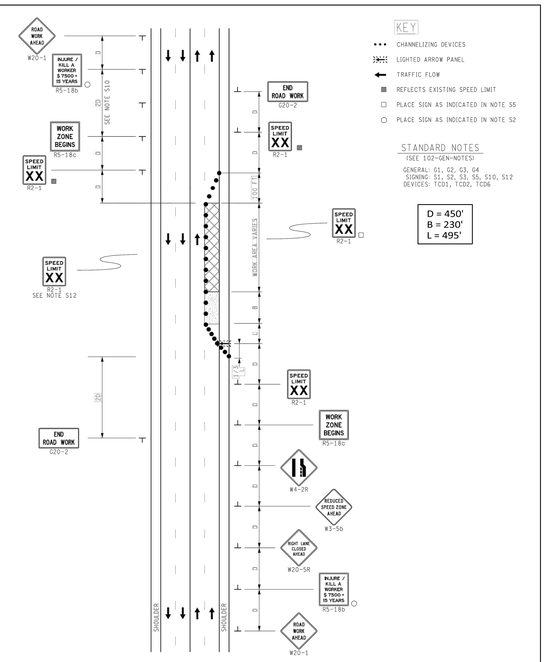
MS3: WORK OR SHADOW VEHICLES WITH OR WITHOUT A TMA MAY BE USED TO SEPARATE THE WORK SPACE FROM TRAFFIC. IF USED, THE VEHICLES SHOULD BE PARKED ACCORDING TO THE ROLL AHEAD DISTANCE TABLES.

MS4: WORK AND SHADOW VEHICLES SHALL BE APPROPRIATELY EQUIPPED WITH AN ACTIVATED AMBER BEACON.

MS5: WHEN WORKERS ARE OUTSIDE THEIR VEHICLES IN AN EXISTING LANE WHILE A MOBILE OPERATION IS OCCURRING DURING THE NIGHTTIME HOURS, CHANNELIZING DEVICES TO DELINEATE OPEN OR CLOSED LANES AT 50 FT SPACING MUST BE USED. AN EXAMPLE OF AN OPERATION (BUT NOT LIMITED TO) IS THE LAYOUT OF CONCRETE PATCHES.

MS6: W21-6 AND W20-1 SIGNS MAY BE SUBSTITUTED AS DETERMINED BY THE TYPE OF WORK TAKING PLACE AS PER THE ENGINEER.

MDOT Michigan Department of Transportation	NOT TO SCALE	WORK ZONE TRAFFIC CONTROL TYPICAL NO: 102-GEN-NOTES	TRAFFIC CONTROL TYPICALS NOTE SHEET	DATE: NOV 2020 SHEET: 2 OF 2
FILE: 102-GEN-NOTES.dgn				



MDOT Michigan Department of Transportation	NOT TO SCALE	MAINTAINING TRAFFIC TYPICAL NO: 123-NFW-1LC-(R)	1 RIGHT LANE CLOSURE ON A 4-LANE UNDIVIDED ROADWAY	DATE: MAY 2021 SHEET: 1 OF 1
FILE: 123-NFW-1LC-(R).dgn				

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PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

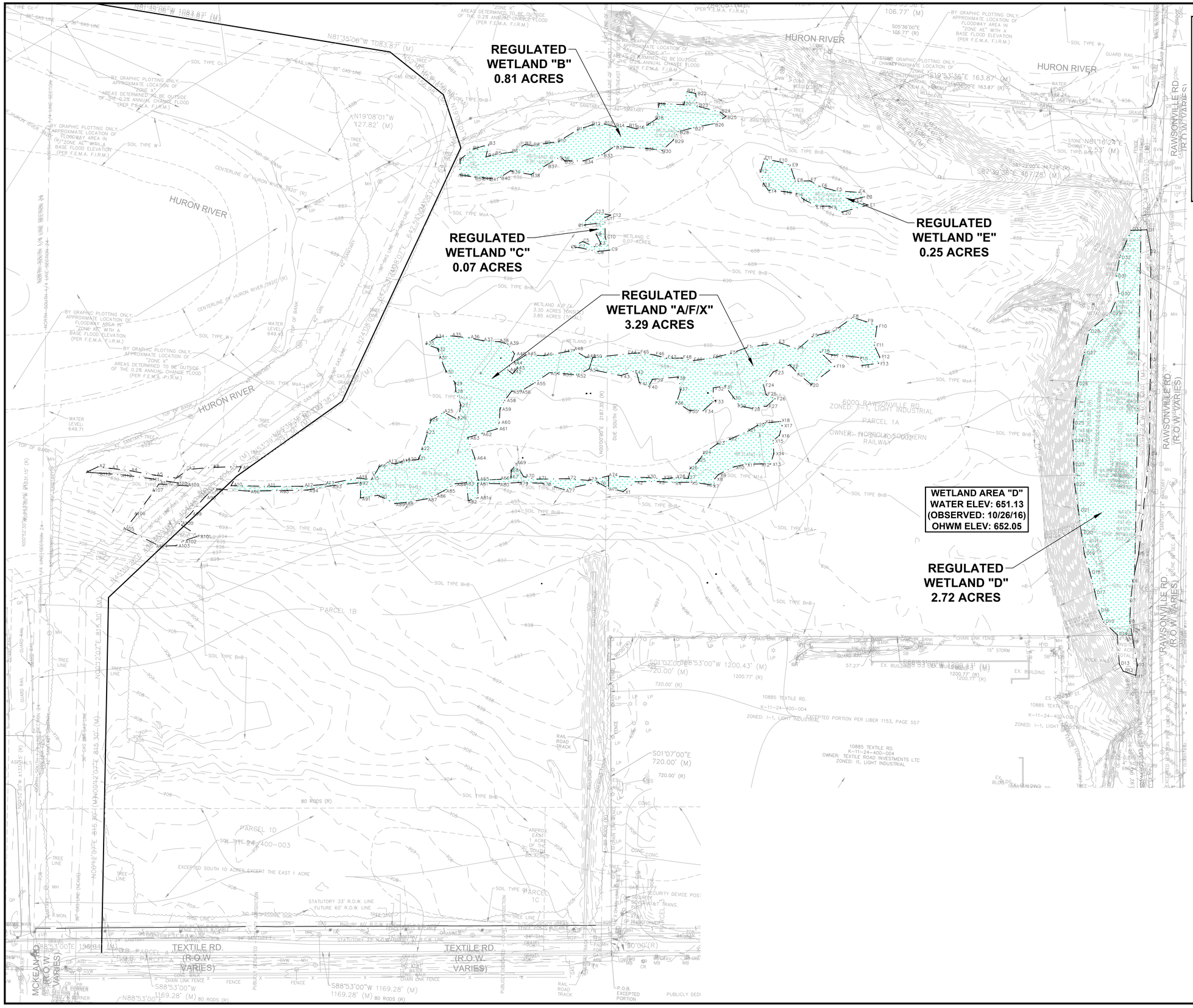
SHEET
MDOT Notes & Details

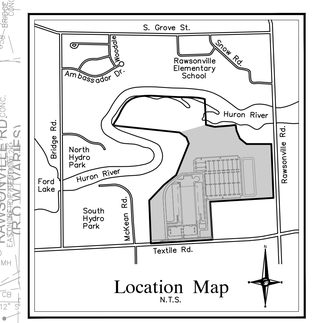
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

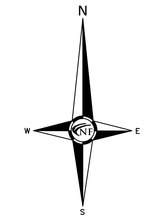
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: N.T.S.

NFE JOB NO. M278-01
SHEET NO. SP 4.11





Location Map
N.T.S.



LEGEND

MANHOLE	EXISTING SANITARY SEWER
	SAN. CLEAN OUT
HYDRANT / GATE VALVE	EXISTING WATERMAIN
MANHOLE / CATCH BASIN	EXISTING STORM SEWER
	EX. R. Y. CATCH BASIN
UTILITY POLE / GUY POLE / GUY WIRE	EXISTING BURIED CABLES
	OVERHEAD LINES
	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
C.O. / MANHOLE	PR. SANITARY SEWER
HYDRANT / GATE VALVE	PR. WATER MAIN
INLET / C.B. / MANHOLE	PR. STORM SEWER
	PR. R. Y. CATCH BASIN
	PROPOSED LIGHT POLE
TC 600.00	PR. TOP OF CURB ELEVATION
GU 600.00	PR. GUTTER ELEVATION
TW 600.00	PR. TOP OF WALK ELEVATION
TP 600.00	PR. TOP OF PVMT. ELEVATION
FG 600.00	FINISH GRADE ELEVATION

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SHEET
Wetland Impact Plan

811
Know what's below
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SCALE: 1" = 100'
100 50 0 50 100 150

NFE JOB NO. M278-01
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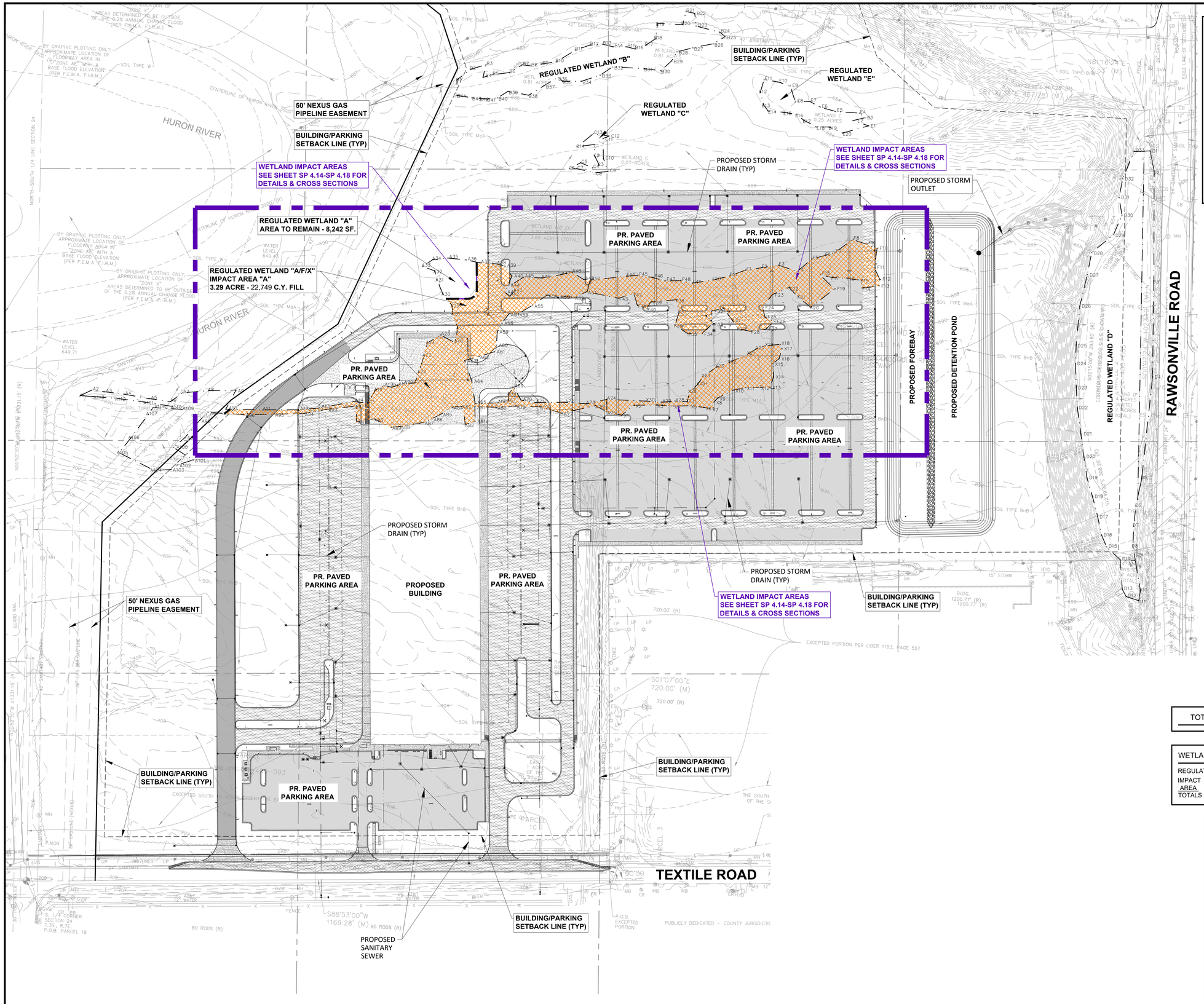

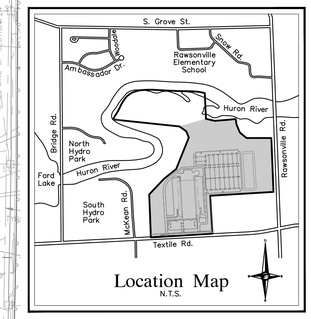

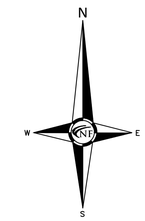

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SHEET
Wetland Impact Overall General Plan

Know what's below Call before you dig.

TOTAL WETLAND IMPACT AREA = 3.29 ACRES

WETLAND IMPACT / DISTURBANCE DATA

REGULATED WETLAND IMPACT "A/F/X"

IMPACT AREA	DREDGE (C.Y.)	FILL (C.Y.)	AREA(S.F.)	AREA(AC)
TOTALS	911	22,749	143,312	3.29

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATERMAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
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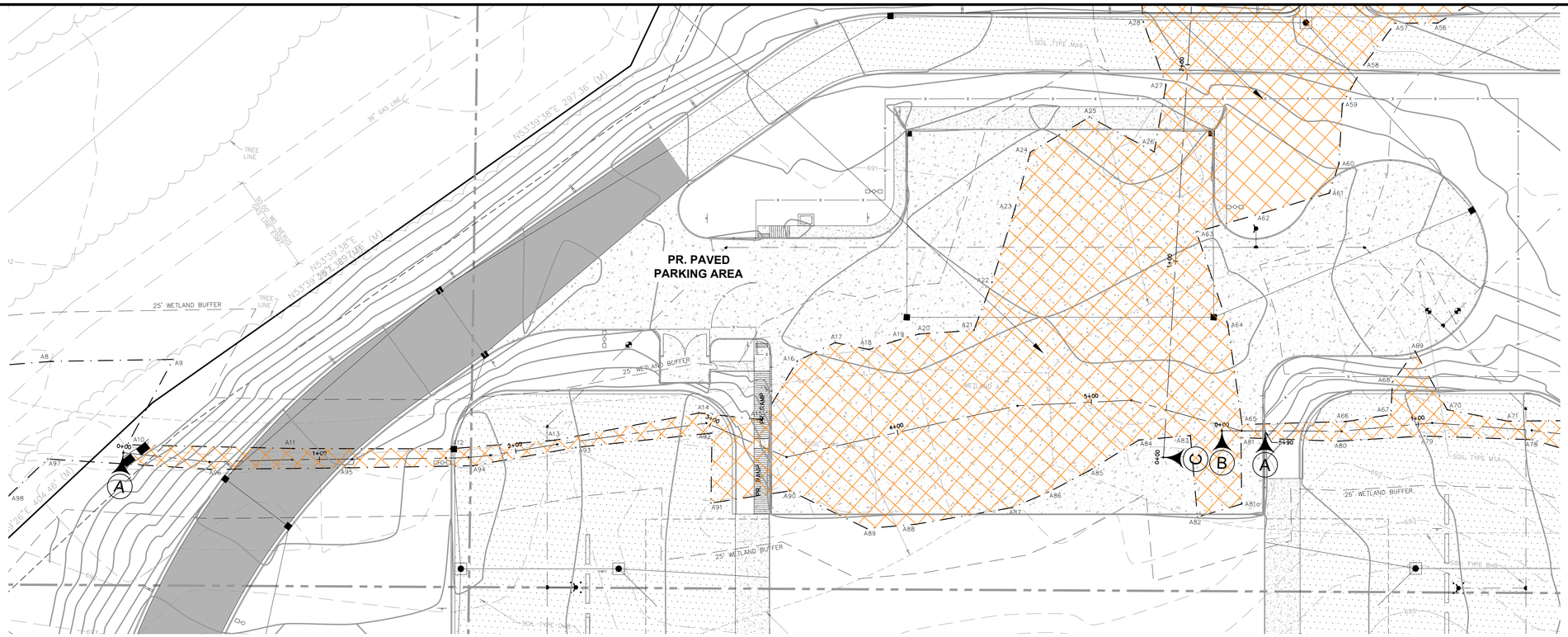

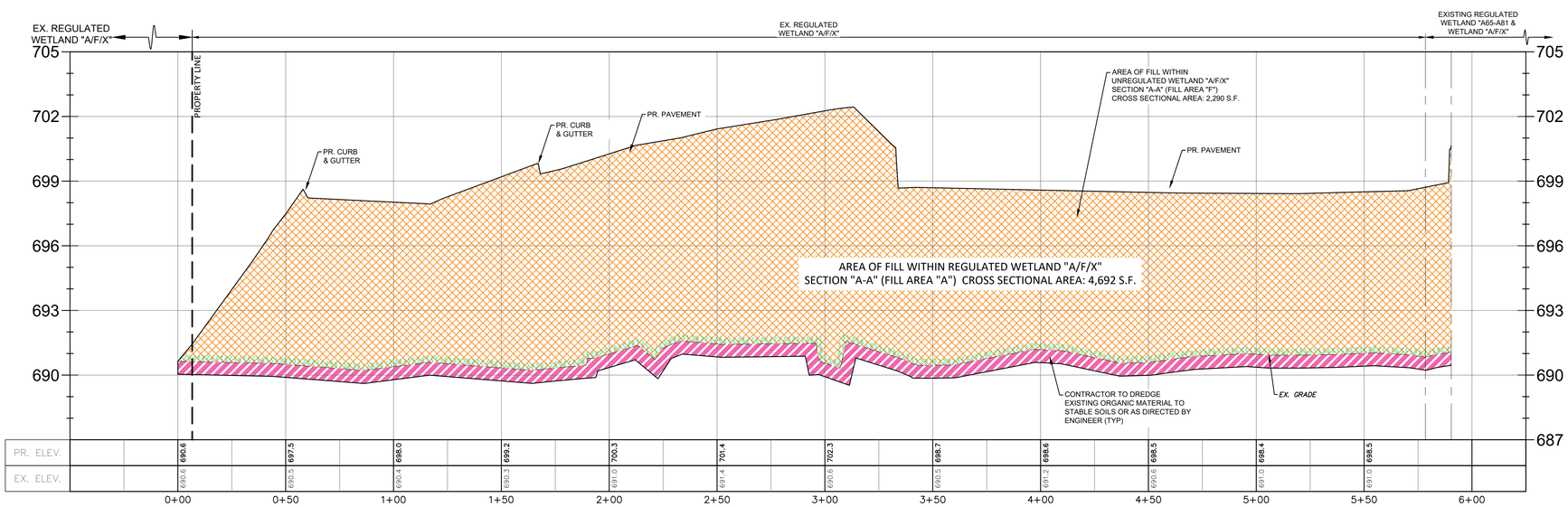

WETLAND CROSS SECTION A-A

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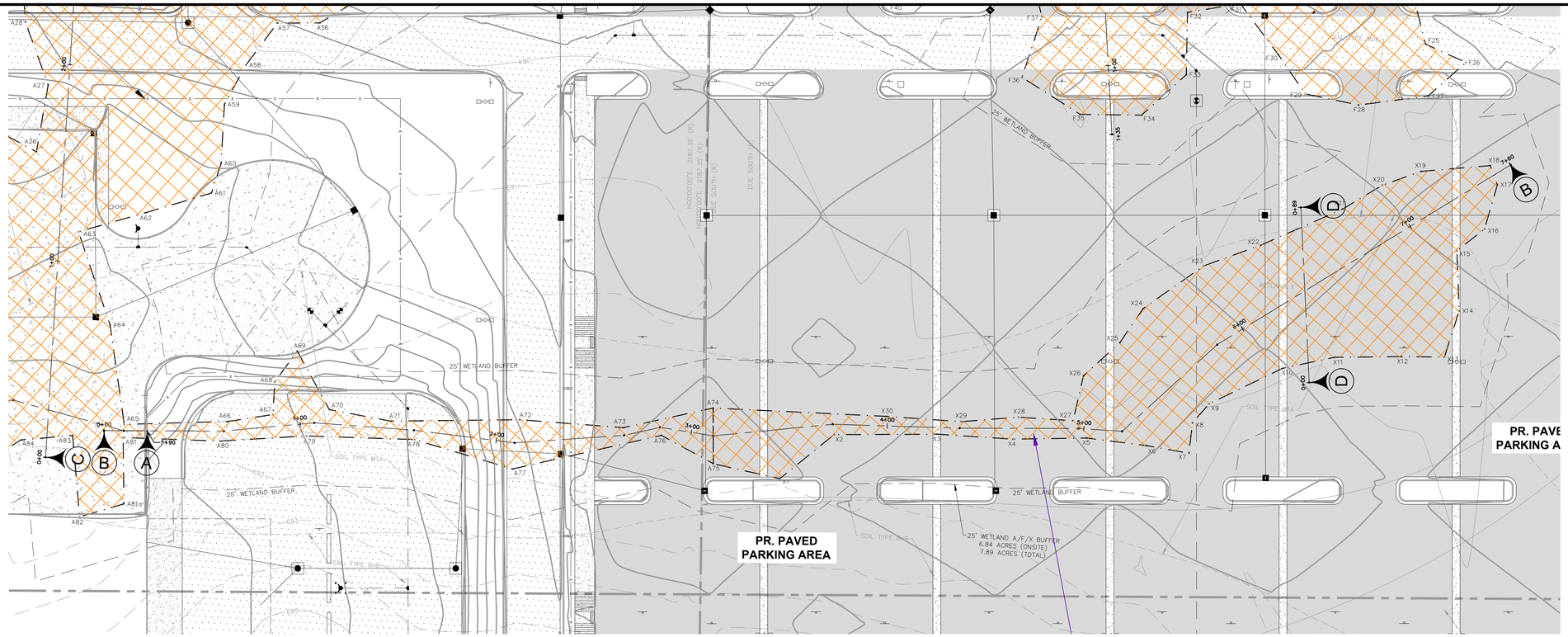

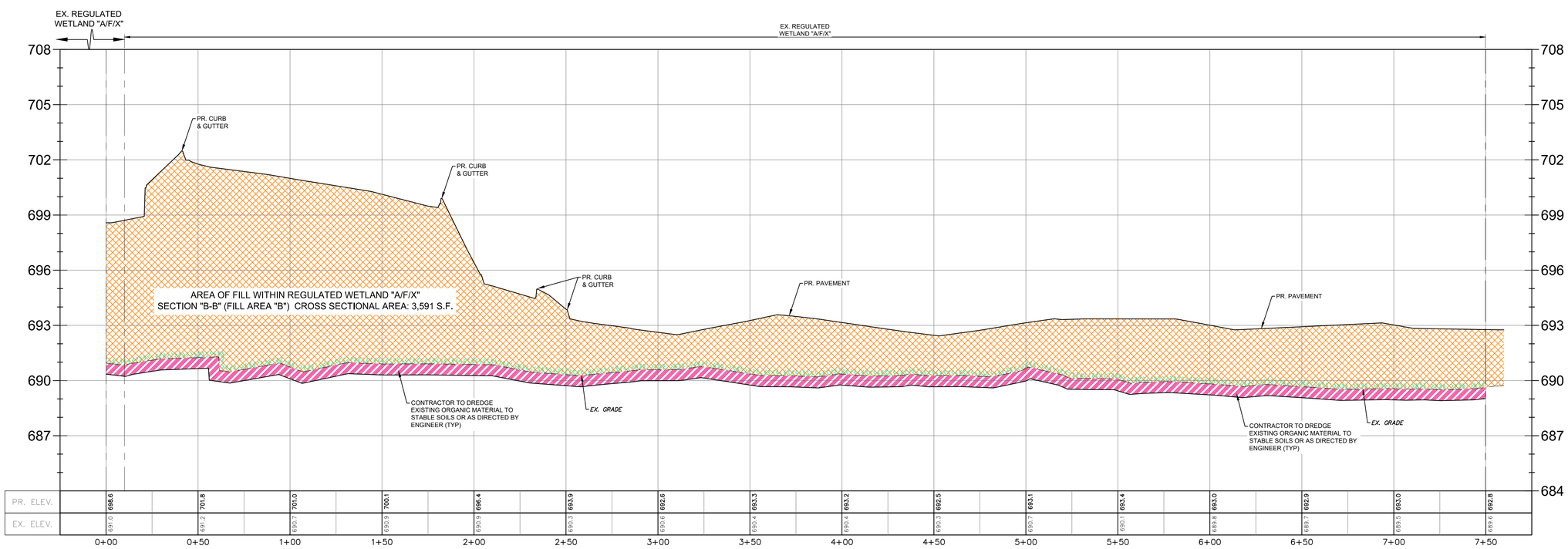

WETLAND CROSS SECTION B-B

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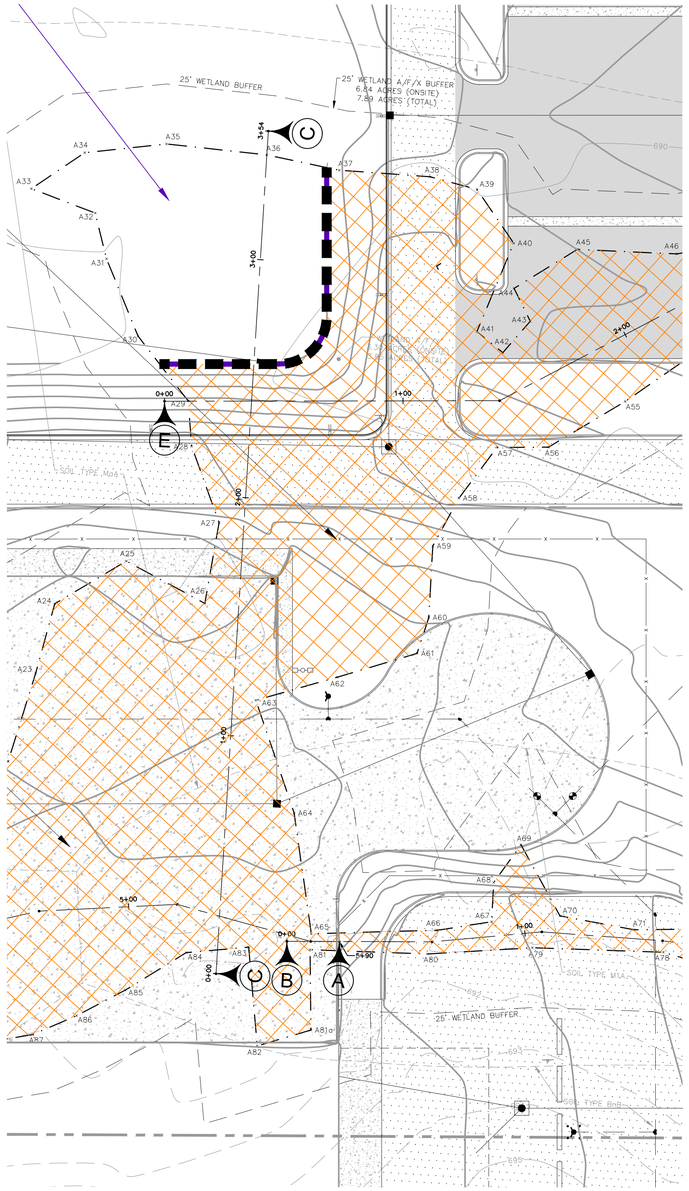
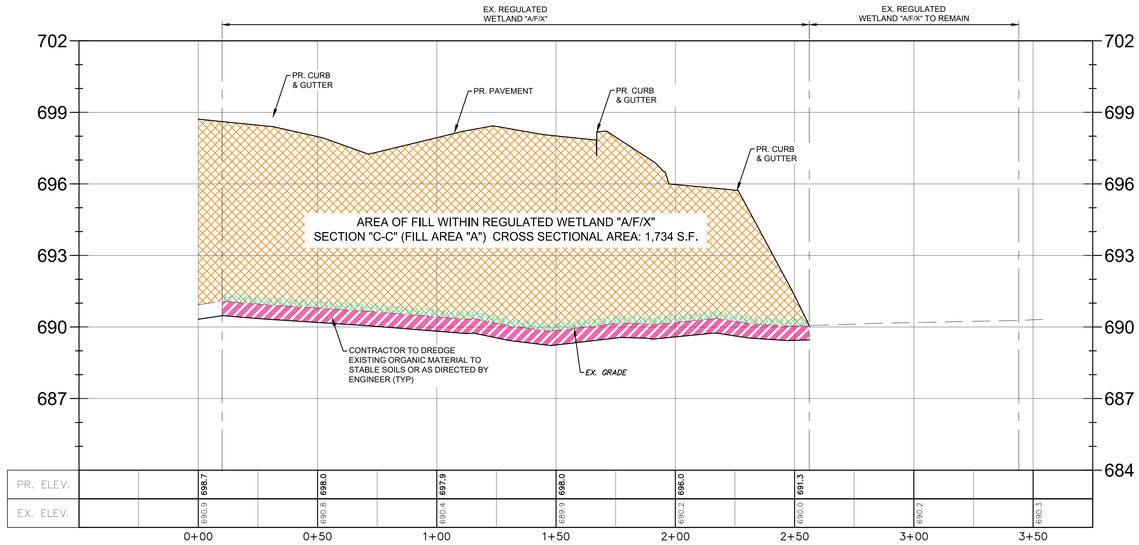
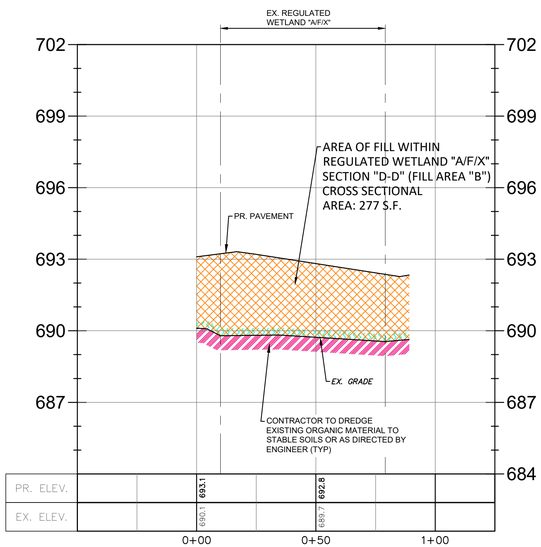
SHEET NO. SP 4.15

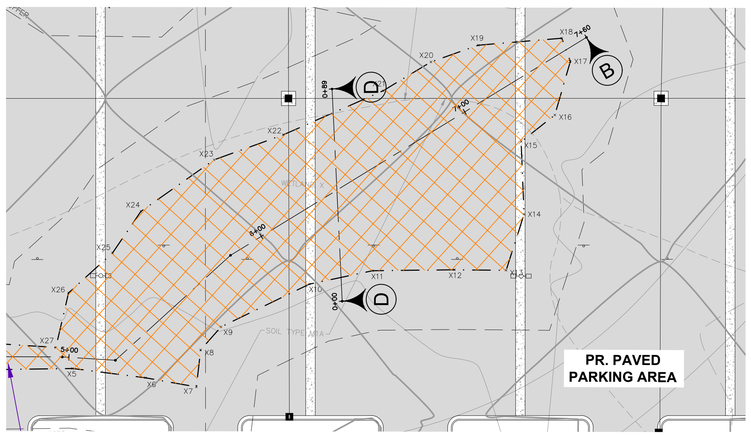




WETLAND CROSS SECTION C-C



WETLAND CROSS SECTION D-D



NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

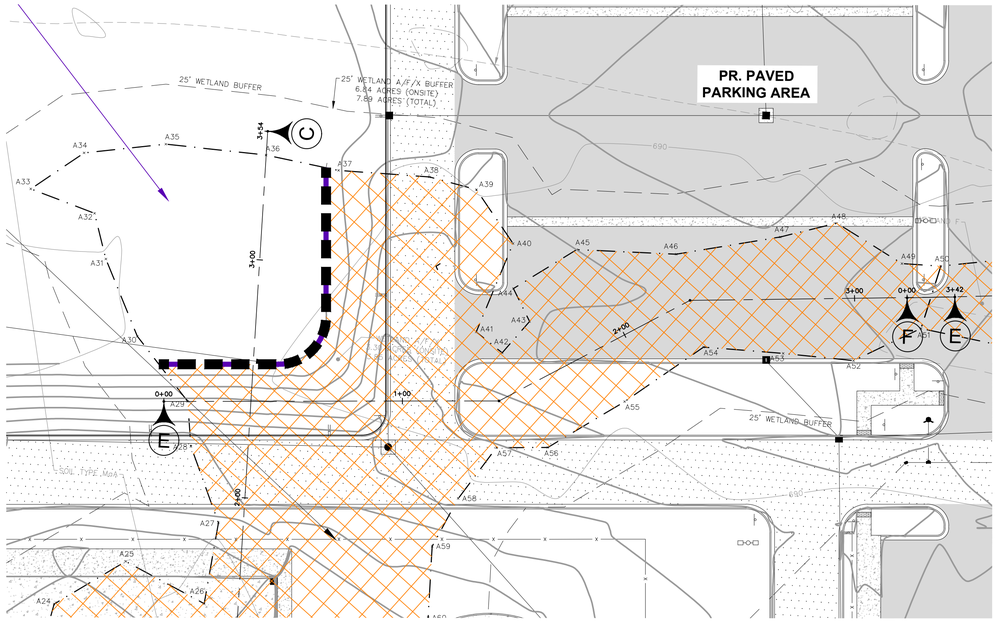
SHEET
Wetland Impact Details & Cross Sections

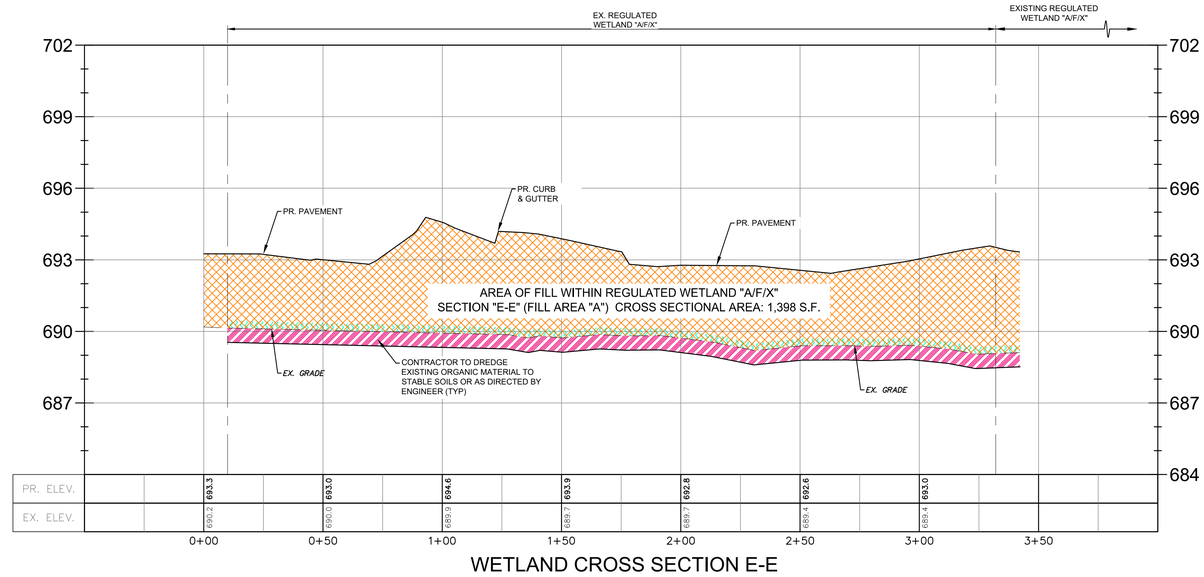
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

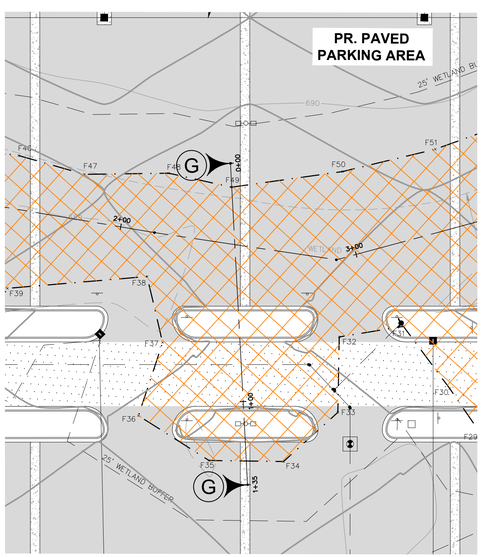
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

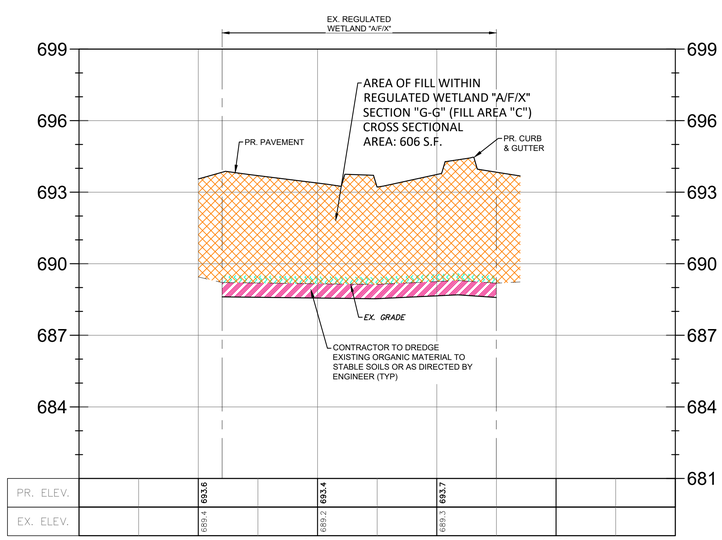
NFE JOB NO. M278-01
SHEET NO. SP 4.16



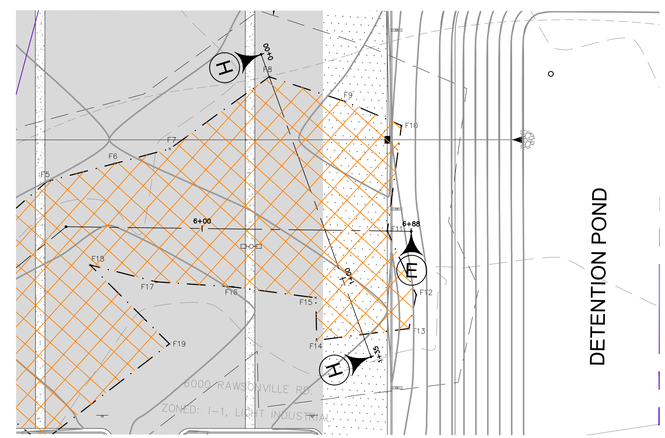


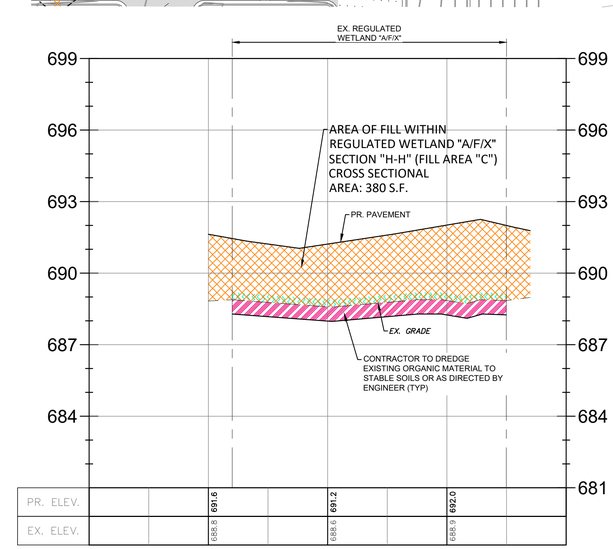
WETLAND CROSS SECTION E-E





WETLAND CROSS SECTION G-G





WETLAND CROSS SECTION H-H

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
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8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Wetland Impact Details &
Cross Sections

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2021-11-24	ISSUED FOR BIDDING
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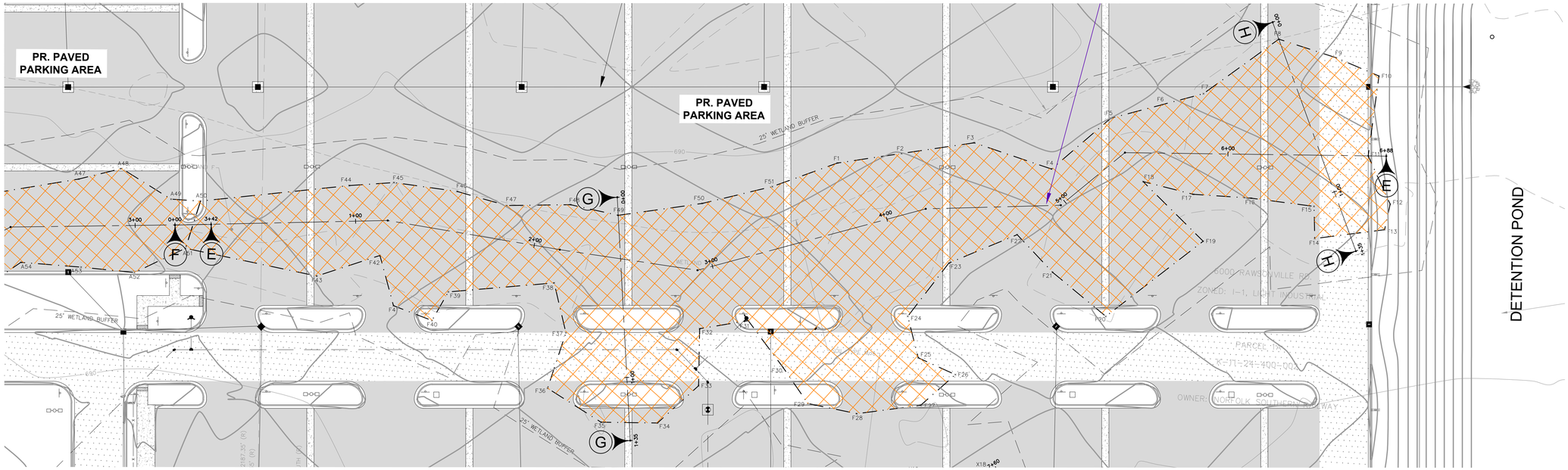
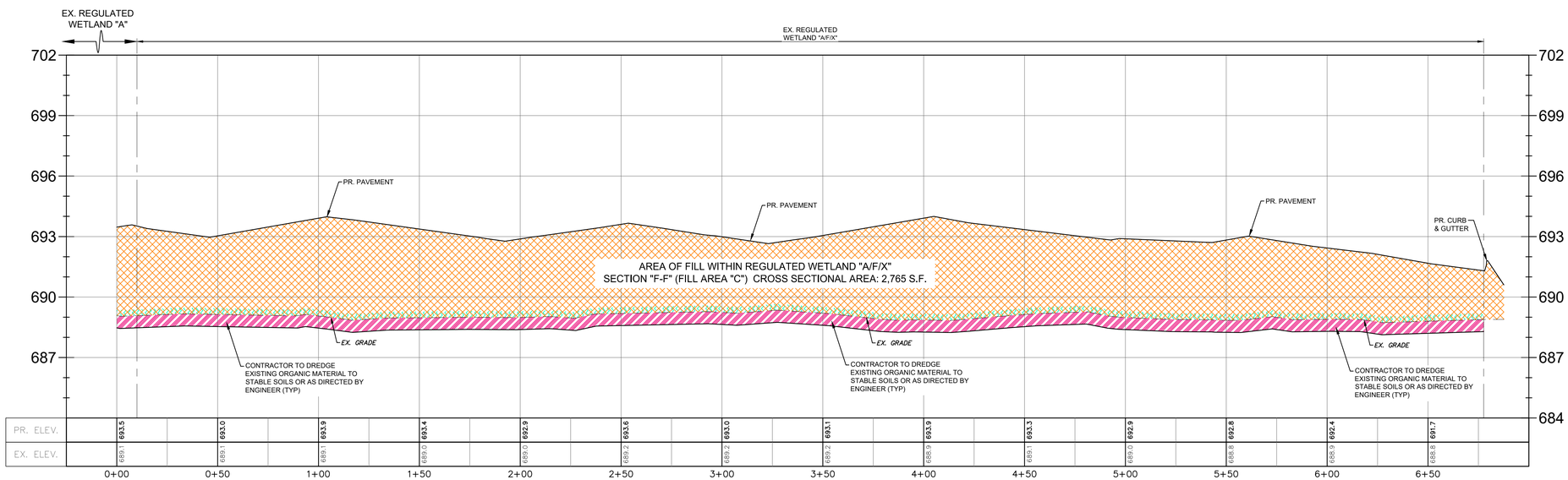
DRAWN BY:
J. Lawrey
DESIGNED BY:
B. Brickel
APPROVED BY:
B. Brickel
DATE:
September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 4.17





WETLAND CROSS SECTION F-F

NF ENGINEERS

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LAND PLANNERS

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SHEET
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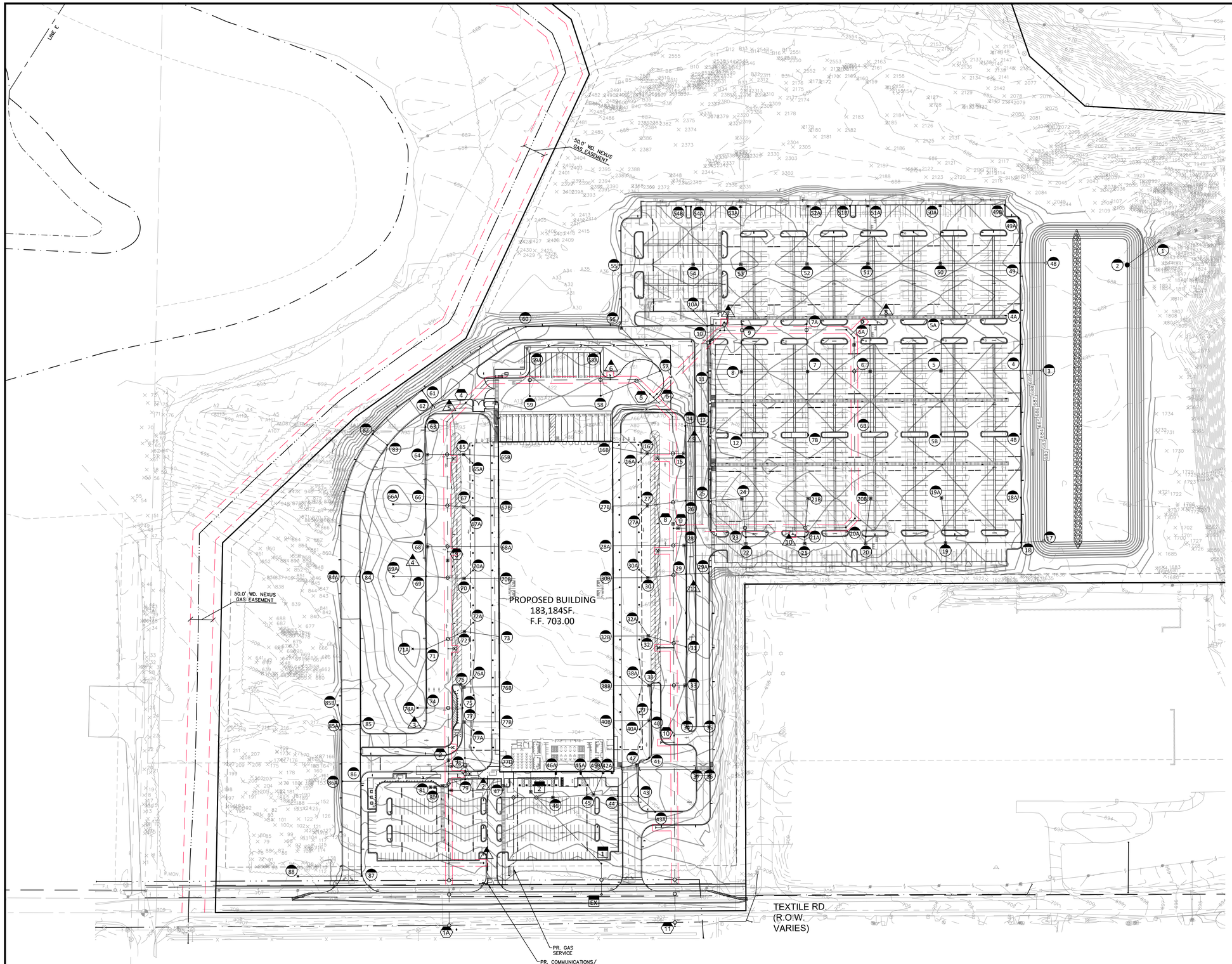
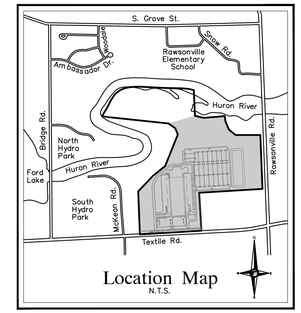
2022-01-07	ISSUED FOR ENGINEERING REVIEW

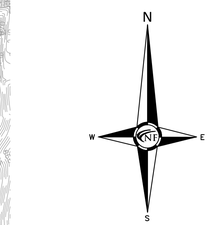
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'
30 15 0 15 30 45

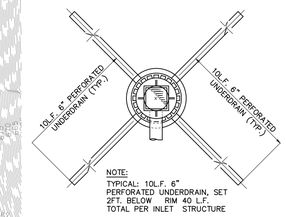
NFE JOB NO. M278-01
SHEET NO. SP 4.18





Location Map
N.T.S.





NOTE:
TYPICAL: 10L.F. 6" PERFORATED UNDERDRAIN, SET 2FT. BELOW RIM 40 L.F. TOTAL PER INLET STRUCTURE

UNDERDRAIN DETAIL
N.T.S.

LEGEND

- SANITARY SEWER MANHOLE
- STORM DRAINAGE MANHOLE/CATCH BASIN/INLET
- WATER MAIN – GATE VALVE & WELL/SHUT OFF
- WATER MAIN – HYDRANT

WATER SERVICE NOTE

THE PROPOSED WATER SERVICE SHALL ENTER A METER ROOM WITHIN FIVE (5) FEET OF THE PROPOSED METER LOCATION. THE METER ROOM SHALL ALSO BE HEATED AS A PART OF THE HVAC SYSTEM.

NOTE

ALL IRRIGATION AND EV CONDUIT SHALL BE INSTALLED ABOVE ALL PROPOSED UTILITIES. NO CONFLICTS WILL OCCUR. THESE SHALL ALSO BE INSTALLED AFTER ALL OTHER UTILITIES ARE COMPLETED.

NOTES

REFER TO SHEETS SP 3.0–SP 3.9 FOR ADDITIONAL PROJECT NOTES & DIMENSIONS (TYP)

REFER TO SHEETS SP 4.0–SP 4.8 FOR DETAILED PAVING NOTES AND DETAILS (TYP)

REFER TO SHEETS SP 5.2–SP 5.16 FOR STORM DRAINAGEPLANS, NOTES, DETAILS AND CALCULATIONS (TYP)

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- SAND BACKFILL (95 % DENSITY)
- PROPOSED LIGHT POLE

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SHEET
Overall Utility Plan

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DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 100'

100 50 0 50 100 150

NFE JOB NO. **M278-01**
SHEET NO. **SP 5.0**

Storm Drainage Structure Schedule

Structure Name	Structure Details
#1 21" ENDSECTION	PR. 21" SW. INV. 680.79
#2 4' DIA. CMP STANDPIPE	PR. RIM 683.48 PR. 21" NE. INV. 681.00
#3 30" END SECTION	PR. 30" W. INV. 684.00
#4 5' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 691.00 PR. 30" W. INV. 684.45 PR. 12" N. INV. 686.54 PR. 12" S. INV. 686.38 PR. 30" E. INV. 684.35
#4A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" S. INV. 687.00
#4B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" N. INV. 687.00
#5 5' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 692.00 PR. 27" W. INV. 685.14 PR. 12" N. INV. 687.54 PR. 12" S. INV. 687.38 PR. 30" E. INV. 685.04
#5A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" S. INV. 688.00
#5B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" N. INV. 688.00
#6 4' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 692.00 PR. 27" W. INV. 685.86 PR. 12" N. INV. 687.55 PR. 12" S. INV. 687.41 PR. 27" E. INV. 685.76
#6A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" S. INV. 688.00
#6B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" N. INV. 688.00
#7 4' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 692.00 PR. 24" W. INV. 686.29 PR. 12" N. INV. 687.54 PR. 12" S. INV. 687.38 PR. 27" E. INV. 686.19
#7A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" S. INV. 688.00
#7B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" N. INV. 688.00
#8 5' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 692.00 PR. 18" S. INV. 686.98 PR. 18" N. INV. 687.04 PR. 24" E. INV. 686.64
#9 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 692.10 PR. 15" W. INV. 687.45 PR. 18" S. INV. 687.35
#10 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 692.50 PR. 12" NW. INV. 687.81 PR. 12" S. INV. 688.50 PR. 15" E. INV. 687.71
#10A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" SE. INV. 688.00
#11 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 693.25 PR. 12" N. INV. 689.25

Storm Drainage Structure Schedule

Structure Name	Structure Details
#12 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" W. INV. 688.00 PR. 18" N. INV. 687.40
#13 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 694.55 PR. 12" W. INV. 690.51 PR. 12" E. INV. 690.25
#14 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 12" S. INV. 694.46 PR. 12" E. INV. 692.76
#15 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 699.75 PR. 12" W. INV. 694.86 PR. 12" N. INV. 694.76
#16 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.50 PR. 6" SW. INV. 697.36 PR. 8" W. INV. 697.33 PR. 12" E. INV. 695.26
#16A 6" STORM LEAD	PR. 6" NE. INV. 697.90
#16B 8" STORM LEAD	PR. 8" E. INV. 698.50
#17 36" END SECTION	PR. 36" W. INV. 683.89
#18 5' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 691.50 PR. 36" W. INV. 684.24 PR. 12" N. INV. 686.56 PR. 36" E. INV. 684.14
#18A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" S. INV. 687.00
#19 5' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 692.25 PR. 36" W. INV. 685.11 PR. 12" N. INV. 687.56 PR. 36" E. INV. 684.91
#19A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" S. INV. 688.00
#20 5' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 693.05 PR. 36" W. INV. 685.74 PR. 15" N. INV. 687.48 PR. 36" E. INV. 685.64
#20A 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 692.75 PR. 12" N. INV. 687.63 PR. 15" S. INV. 687.53
#20B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" S. INV. 688.00
#21 5' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 693.25 PR. 30" W. INV. 686.13 PR. 15" N. INV. 687.48 PR. 36" E. INV. 686.06
#21A 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 692.75 PR. 12" N. INV. 687.63 PR. 15" S. INV. 687.53
#21B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 692.00 PR. 12" S. INV. 688.00
#22 5' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 693.65 PR. 27" W. INV. 687.91 PR. 21" N. INV. 687.04 PR. 30" E. INV. 686.44
#23 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 693.25 PR. 18" N. INV. 687.18 PR. 21" S. INV. 687.08

Storm Drainage Structure Schedule

Structure Name	Structure Details
#24 4' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 692.00 PR. 12" W. INV. 688.00 PR. 18" S. INV. 687.45
#25 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 694.55 PR. 12" W. INV. 690.55 PR. 12" E. INV. 690.25
#26 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 12" W. INV. 694.94 PR. 12" E. INV. 692.84
#27 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.50 PR. 6" SW. INV. 697.36 PR. 8" W. INV. 697.35 PR. 12" E. INV. 695.36
#27A 6" STORM LEAD	PR. 6" NE. INV. 697.90
#27B 8" STORM LEAD	PR. 8" E. INV. 698.50
#28 6' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 699.75 PR. 27" S. INV. 690.95 PR. 8" W. INV. 695.67 PR. 27" E. INV. 689.95
#28A 8" STORM LEAD	PR. 8" E. INV. 698.50
#29 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 27" S. INV. 692.73 PR. 12" W. INV. 695.06 PR. 12" E. INV. 692.33 PR. 27" N. INV. 691.33
#29A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 696.55 PR. 12" W. INV. 692.55
#30 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.50 PR. 8" W. INV. 697.35 PR. 6" NW. INV. 697.38 PR. 12" E. INV. 695.48
#30A 6" STORM LEAD	PR. 6" SE. INV. 697.90
#30B 8" STORM LEAD	PR. 8" E. INV. 698.50
#31 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 27" S. INV. 693.47 PR. 12" W. INV. 694.84 PR. 27" N. INV. 693.37
#32 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.50 PR. 8" W. INV. 697.35 PR. 6" NW. INV. 697.18 PR. 12" E. INV. 695.28
#32A 6" STORM LEAD	PR. 6" SE. INV. 697.90
#32B 8" STORM LEAD	PR. 8" E. INV. 698.50
#33 5' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 700.00 PR. 24" W. INV. 693.82 PR. 12" S. INV. 694.62 PR. 27" N. INV. 693.72
#34 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 12" E. INV. 695.30 PR. 12" N. INV. 695.20
#35 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.80 PR. 12" S. INV. 695.80 PR. 12" W. INV. 695.70

Storm Drainage Structure Schedule

Structure Name	Structure Details
#36 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 702.50 PR. 12" W. INV. 698.37 PR. 12" N. INV. 698.27
#37 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 702.50 PR. 12" E. INV. 698.50
#38 5' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.80 PR. 24" S. INV. 694.17 PR. 8" W. INV. 697.33 PR. 6" NW. INV. 697.36 PR. 24" E. INV. 694.07
#38A 6" STORM LEAD	PR. 6" SE. INV. 697.90
#38B 8" STORM LEAD	PR. 8" E. INV. 698.50
#39 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 701.25 PR. 24" S. INV. 694.40 PR. 24" N. INV. 694.30
#40 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.50 PR. 21" S. INV. 694.56 PR. 8" W. INV. 697.33 PR. 6" SW. INV. 697.34 PR. 24" N. INV. 694.46
#40A 6" STORM LEAD	PR. 6" NE. INV. 697.90
#40B 8" STORM LEAD	PR. 8" E. INV. 698.50
#41 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 701.30 PR. 21" SW. INV. 694.94 PR. 21" N. INV. 694.84
#42 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.75 PR. 21" S. INV. 695.14 PR. 6" W. INV. 697.50 PR. 21" NE. INV. 695.04
#42A 6" STORM LEAD	PR. 6" E. INV. 699.00
#43 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 700.60 PR. 18" W. INV. 695.45 PR. 12" SE. INV. 696.50 PR. 21" N. INV. 695.35
#43A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 702.20 PR. 12" NW. INV. 698.00
#44 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 701.00 PR. 15" W. INV. 695.68 PR. 18" E. INV. 695.58
#45 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.80 PR. 4" N. INV. 698.49 PR. 4" NW. INV. 698.48 PR. 15" W. INV. 696.01 PR. 15" E. INV. 695.91
#45A 4" STORM LEAD	PR. 4" SE. INV. 699.00
#45B 4" STORM LEAD	PR. 4" S. INV. 699.00
#46 4' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 701.50 PR. 4" N. INV. 698.49 PR. 12" W. INV. 696.49 PR. 15" E. INV. 696.39
#46A 4" STORM LEAD	PR. 4" S. INV. 699.00

Storm Drainage Structure Schedule

Structure Name	Structure Details
#47 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 701.00 PR. 12" E. INV. 697.00
#48 42" END SECTION	PR. 42" W. INV. 682.21
#49 6' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 690.50 PR. 42" W. INV. 682.48 PR. 12" N. INV. 685.78 PR. 42" E. INV. 682.38
#49A 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 690.50 PR. 12" NW. INV. 686.32 PR. 12" S. INV. 686.22
#49B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 690.50 PR. 12" SE. INV. 686.50
#50 6' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 691.00 PR. 42" W. INV. 683.00 PR. 12" N. INV. 686.44 PR. 42" E. INV. 682.90
#50A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" S. INV. 687.00
#51 6' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 691.00 PR. 42" W. INV. 683.42 PR. 12" N. INV. 686.17 PR. 42" E. INV. 683.32
#51A 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" W. INV. 686.83 PR. 12" S. INV. 686.73
#51B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 691.50 PR. 12" E. INV. 687.00
#52 6' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 691.00 PR. 42" W. INV. 683.79 PR. 12" N. INV. 686.44 PR. 42" E. INV. 683.69
#52A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" S. INV. 687.00
#53 6' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 691.50 PR. 42" W. INV. 684.15 PR. 12" N. INV. 686.44 PR. 42" E. INV. 684.05
#53A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" S. INV. 687.00
#54 6' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 691.10 PR. 36" W. INV. 684.54 PR. 12" N. INV. 686.29 PR. 42" E. INV. 684.34
#54A 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" W. INV. 686.95 PR. 12" S. INV. 686.85
#54B 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 691.00 PR. 12" E. INV. 687.00
#55 6' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 691.25 PR. 30" S. INV. 685.30 PR. 36" E. INV. 685.05
#56 6' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 694.65 PR. 30" W. INV. 686.93 PR. 18" SE. INV. 691.00 PR. 30" N. INV. 686.83
#57 5' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 696.00 PR. 18" SW. INV. 691.46 PR. 18" NW. INV. 691.36

Storm Drainage Structure Schedule

Structure Name	Structure Details
#58 5' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 697.00 PR. 15" W. INV. 691.96 PR. 18" NE. INV. 691.86 PR. 12" N. INV. 692.59
#58A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 697.00 PR. 12" S. INV. 693.00
#59 4' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 697.00 PR. 12" N. INV. 692.59 PR. 15" E. INV. 692.49
#59A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 697.00 PR. 12" S. INV. 693.00
#60 5' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 695.00 PR. 30" SW. INV. 688.38 PR. 30" E. INV. 688.28
#61 5' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 696.00 PR. 18" SW. INV. 691.26 PR. 27" SE. INV. 690.20 PR. 30" NE. INV. 690.10
#62 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 696.00 PR. 27" S. INV. 690.58 PR. 27" NW. INV. 690.48
#63 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 27" S. INV. 691.08 PR. 27" N. INV. 690.88
#64 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 699.75 PR. 27" S. INV. 691.50 PR. 12" E. INV. 695.28 PR. 27" N. INV. 691.40
#65 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.50 PR. 6" E. INV. 696.08 PR. 6" SE. INV. 697.36 PR. 12" W. INV. 695.68
#65A 6" STORM LEAD	PR. 6" NW. INV. 697.90
#65B 6" STORM LEAD	PR. 6" W. INV. 698.00
#66 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 27" S. INV. 692.10 PR. 12" E. INV. 695.28 PR. 12" W. INV. 693.68 PR. 27" N. INV. 692.00
#66A 2' REAR YARD CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE N	PR. RIM 698.00 PR. 12" E. INV. 694.00
#67 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.45 PR. 6" E. INV. 697.08 PR. 6" SE. INV. 697.36 PR. 12" W. INV. 695.68
#67A 6" STORM LEAD	PR. 6" NW. INV. 697.90
#67B 6" STORM LEAD	PR. 6" W. INV. 699.00
#68 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 699.80 PR. 27" S. INV. 692.52 PR. 6" E. INV. 695.86 PR. 27" N. INV. 692.42
#68A 6" STORM LEAD	PR. 6" W. INV. 699.00
#69 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 24" S. INV. 692.83 PR. 12" E. INV. 695.30 PR. 12" W. INV. 693.68 PR. 27" N. INV. 692.73

Storm Drainage Structure Schedule

Structure Name	Structure Details
#69A 2' REAR YARD CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE N	PR. RIM 698.00 PR. 12" E. INV. 694.00
#70 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.45 PR. 6" E. INV. 697.08 PR. 6" NE. INV. 697.40 PR. 12" W. INV. 695.70
#70A 6" STORM LEAD	PR. 6" SW. INV. 697.90
#70B 6" STORM LEAD	PR. 6" W. INV. 699.00
#71 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.30 PR. 24" S. INV. 693.97 PR. 12" NE. INV. 695.29 PR. 12" W. INV. 693.87 PR. 24" N. INV. 693.47
#71A 2' REAR YARD CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE N	PR. RIM 698.00 PR. 12" E. INV. 694.00
#72 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.55 PR. 6" E. INV. 697.05 PR. 6" NE. INV. 697.32 PR. 12" SW. INV. 695.69
#72A 6" STORM LEAD	PR. 6" SW. INV. 697.90
#73 6" STORM LEAD	PR. 6" W. INV. 699.00
#74 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 699.60 PR. 21" E. INV. 694.48 PR. 12" W. INV. 694.91 PR. 24" N. INV. 694.28
#74A 2' REAR YARD CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE N	PR. RIM 699.00 PR. 12" E. INV. 695.00
#75 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 701.25 PR. 21" S. INV. 695.00 PR. 12" N. INV. 695.59 PR. 21" W. INV. 694.90
#76 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.65 PR. 6" E. INV. 697.05 PR. 6" NE. INV. 697.38 PR. 12" S. INV. 695.79
#76A 6" STORM LEAD	PR. 6" SW. INV. 697.90
#76B 6" STORM LEAD	PR. 6" W. INV. 699.00
#77 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 701.60 PR. 18" S. INV. 695.45 PR. 6" E. INV. 697.05 PR. 6" SE. INV. 697.36 PR. 21" N. INV. 695.13
#77A 6" STORM LEAD	PR. 6" NW. INV. 697.90
#77B 6" STORM LEAD	PR. 6" W. INV. 699.00
#77C 4' DIA. MANHOLE	PR. RIM 701.45 PR. 18" S. INV. 695.77 PR. 6" E. INV. 696.77 PR. 18" N. INV. 695.77
#77D 6" STORM LEAD	PR. 6" W. INV. 699.00

Storm Drainage Structure Schedule

Structure Name	Structure Details
#78 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 700.83 PR. 15" S. INV. 696.09 PR. 18" N. INV. 695.99
#79 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 700.50 PR. 12" W. INV. 696.40 PR. 15" N. INV. 696.20
#80 4' DIA. CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE M1	PR. RIM 701.45 PR. 12" W. INV. 697.35 PR. 12" E. INV. 697.25
#81 2' DIA. INLET EJ 1040Z TYPE M1	PR. RIM 701.45 PR. 12" E. INV. 697.45
#82 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 698.80 PR. 18" SE. INV. 693.27 PR. 18" NE. INV. 693.17
#83 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 698.32 PR. 18" S. INV. 693.70 PR. 18" NW. INV. 693.60
#84 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 701.80 PR. 18" S. INV. 697.03 PR. 12" W. INV. 697.62 PR. 18" N. INV. 696.93
#84A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 702.38 PR. 12" E. INV. 697.80
#85 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 703.00 PR. 15" S. INV. 698.30 PR. 12" W. INV. 698.52 PR. 18" N. INV. 698.20
#85A 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 703.72 PR. 12" N. INV. 698.80 PR. 12" E. INV. 698.70
#85B 2' REAR YARD CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE N	PR. RIM 703.00 PR. 12" S. INV. 699.00
#86 4' DIA. CATCH BASIN W/ 2' SUMP EJ 7045 TYPE M2	PR. RIM 703.00 PR. 12" W. INV. 698.82 PR. 12" S. INV. 698.82 PR. 15" N. INV. 698.72
#86A 2' DIA. INLET EJ 7045 TYPE M2	PR. RIM 703.94 PR. 12" E. INV. 699.00
#87 4' DIA. MANHOLE EJ 1040Z TYPE B	PR. RIM 708.10 PR. 12" W. INV. 701.38 PR. 12" N. INV. 701.28
#88 2' REAR YARD CATCH BASIN W/ 2' SUMP EJ 1040Z TYPE N	PR. RIM 706.00 PR. 12" E. INV. 702.00

Water Main Structure Schedule

Structure Name	Structure Details
#1A INSTALL 12" G.V. & WELL ON EX. 12" WATER MAIN	PR. RIM 707.35
#2 8" G.V. & WELL	PR. RIM 702.05
#3 8" G.V. & WELL	PR. RIM 700.70
#4 8" G.V. & WELL	PR. RIM 698.75
#5 8" G.V. & WELL	PR. RIM 697.35
#6 8" G.V. & WELL	PR. RIM 697.20
#8 8" G.V. & WELL	PR. RIM 700.30
#9 8" G.V. & WELL	PR. RIM 700.20
#10 8" G.V. & WELL	PR. RIM 700.10
#11 8" G.V. & WELL	PR. RIM 706.20
#12 8" G.V. & WELL	PR. RIM 701.65

Water Main Hydrant Schedule

Structure Name	Structure Details
#1	FG 707.75
#2	FG 701.60
#3	FG 702.35
#4	FG 700.95
#5	FG 701.05
#6	FG 698.75
#7	FG 693.55
#8	FG 692.65
#9	FG 701.10
#10	FG 693.85
#11	FG 701.05
#13	FG 701.10
#14	FG 703.70

Sanitary Sewer Structure Schedule

Structure Name	Structure Details
#1 CONSTRUCT 4' DIA. SANITARY MANHOLE EJ 1040	PR. RIM 707.70 PR. 8" NW. INV. 690.13 PR. 8" S. INV. 689.51
#2 CONSTRUCT 4' DIA. SANITARY MANHOLE EJ 1040	PR. RIM 702.35 PR. 6" N. INV. 691.20 PR. 8" SE. INV. 691.10
#3 6" SANITARY LEAD	PR. RIM 703.00 PR. 6" S. INV. 692.00
#EX TAP EXISTING SANITARY MANHOLE	EX. RIM 707.40 PR. 8" N. INV. 689.22 EX. 24" W. INV. 687.82 EX. 24" E. INV. 687.72

ESTIMATED QUANTITIES - OVERALL

STORM SEWER

DESCRIPTION	QUANTITY	UNITS
12" C-76, CLASS IV, SEWER PIPE	4,794	L.F.
15" C-76, CLASS IV, SEWER PIPE	549	L.F.
18" C-76, CLASS IV, SEWER PIPE	1,560	L.F.
21" C-76, CLASS IV, SEWER PIPE	397	L.F.
24" C-76, CLASS IV, SEWER PIPE	593	L.F.
27" C-76, CLASS IV, SEWER PIPE	1,159	L.F.
30" C-76, CLASS IV, SEWER PIPE	897	L.F.
36" C-76, CLASS IV, SEWER PIPE	685	L.F.
42" C-76, CLASS IV, SEWER PIPE	776	L.F.
4" PVC, SCH 40, SEWER PIPE	154	L.F.
6" PVC, SCH 40, SEWER PIPE	1,081	L.F.
8" PVC, SCH 40, SEWER PIPE	545	L.F.
2' DIA. INLET	29	EA.
2' DIA. R.Y.C.B. W/ 2' SUMP	6	EA.
4' DIA. CATCH BASIN W/ 2' SUMP	43	EA.
5' DIA. CATCH BASIN W/ 2' SUMP	9	EA.
6' DIA. CATCH BASIN W/ 2' SUMP	7	EA.
4' DIA. CMP STANDPIPE W/ 2' SUMP	1	EA.
4' DIA. MANHOLE	17	EA.
5' DIA. MANHOLE	5	EA.
6' DIA. MANHOLE	2	EA.

SANITARY SEWER

DESCRIPTION	QUANTITY	UNITS
6" PVC, SDR 23.5, SEWER PIPE	44	L.F.
8" PVC, SCH 40, SEWER PIPE	290	L.F.
TAP/CONNECTION	1	EA.

WATER MAIN

DESCRIPTION	QUANTITY	UNITS
8" D.I., CLASS 54, WATER MAIN	4,056	L.F.
8" D.I., CL54, WM POLYWRAPED (JACK & BORE)	158	L.F.
6" D.I., CLASS 54, WATER MAIN	335	L.F.
4" D.I., CLASS 54, WATER MAIN	264	L.F.
6" HYDRANT ASSEMBLY	15	EA.
12" GATE VALVE & WELL	1	EA.
8" GATE VALVE & WELL	12	EA.
WATER MAIN CONNECTION	2	EA.

UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92
X2	PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20
X4	EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24
X9	PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22
X10	REMOVED
X11	REMOVED
X12	PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98
X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85
X14	PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86
X15	PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18
X16	PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21
X17	PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84
X18	PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83
X19	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08
X20	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08
X21	PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91
X22	PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31
X23	PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41
X24	PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58
X25	PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53
X26	PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53
X27	PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00
X28	PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X29	PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X30	PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X31	PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X33	EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X34	EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X36	PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X37	EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X38	PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X39	PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X40	PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X41	PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X42	PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
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SEAL
STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

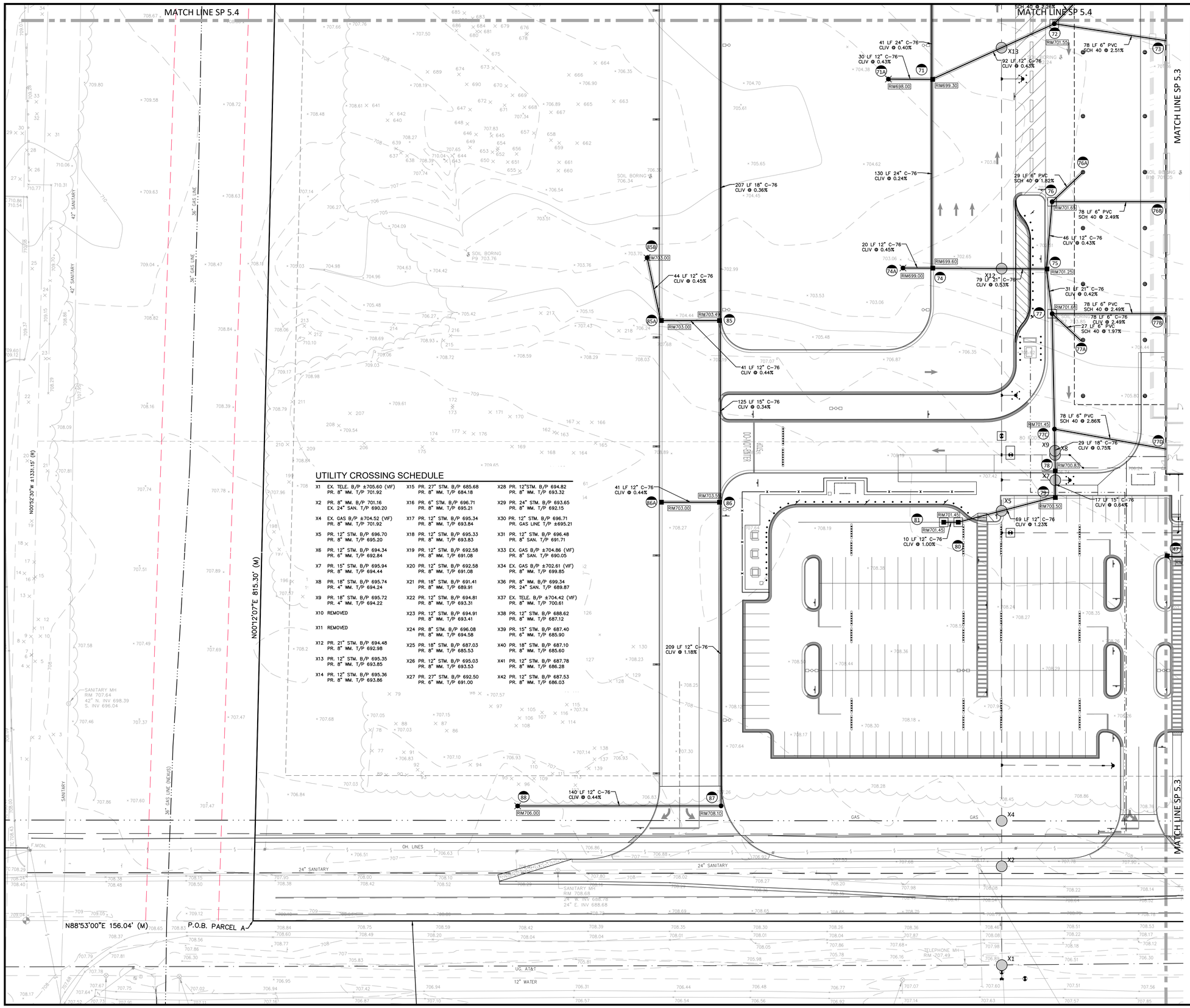
SHEET
Master Utility Structure
Schedule Plan

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

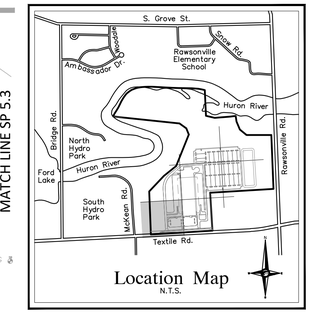
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: N.T.S.

NFE JOB NO. M278-01
SHEET NO. SP 5.1



UTILITY CROSSING SCHEDULE

X1 EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5 PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13 PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14 PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27 PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42 PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03



Location Map
N.T.S.

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL
STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Drainage Plan

NOTE

ALL IRRIGATION AND EV CONDUIT SHALL BE INSTALLED ABOVE ALL PROPOSED UTILITIES. NO CONFLICTS WILL OCCUR. THESE SHALL ALSO BE INSTALLED AFTER ALL OTHER UTILITIES ARE COMPLETED.

NOTES

REFER TO SHEETS SP 3.0–SP 3.9 FOR ADDITIONAL PROJECT NOTES & DIMENSIONS (TYP)

REFER TO SHEETS SP 4.0–SP 4.8 FOR DETAILED PAVING NOTES AND DETAILS (TYP)

REFER TO SHEETS SP 5.2–SP 5.16 FOR STORM DRAINAGEPLANS, NOTES, DETAILS AND CALCULATIONS (TYP)

ESTIMATED QUANTITIES - THIS SHEET

STORM SEWER

DESCRIPTION	QUANTITY	UNITS
12" C-76, CLASS IV, SEWER PIPE	743	L.F.
15" C-76, CLASS IV, SEWER PIPE	142	L.F.
18" C-76, CLASS IV, SEWER PIPE	316	L.F.
21" C-76, CLASS IV, SEWER PIPE	110	L.F.
24" C-76, CLASS IV, SEWER PIPE	171	L.F.
6" PVC, SCH. 40, SEWER PIPE	367	L.F.
2' DIA. INLET	2	EA.
2' DIA. RYCB W/ 2' SUMP	4	EA.
4' DIA. CATCH BASIN W/ 2' SUMP	9	EA.
4' DIA. MANHOLE	5	EA.

LEGEND

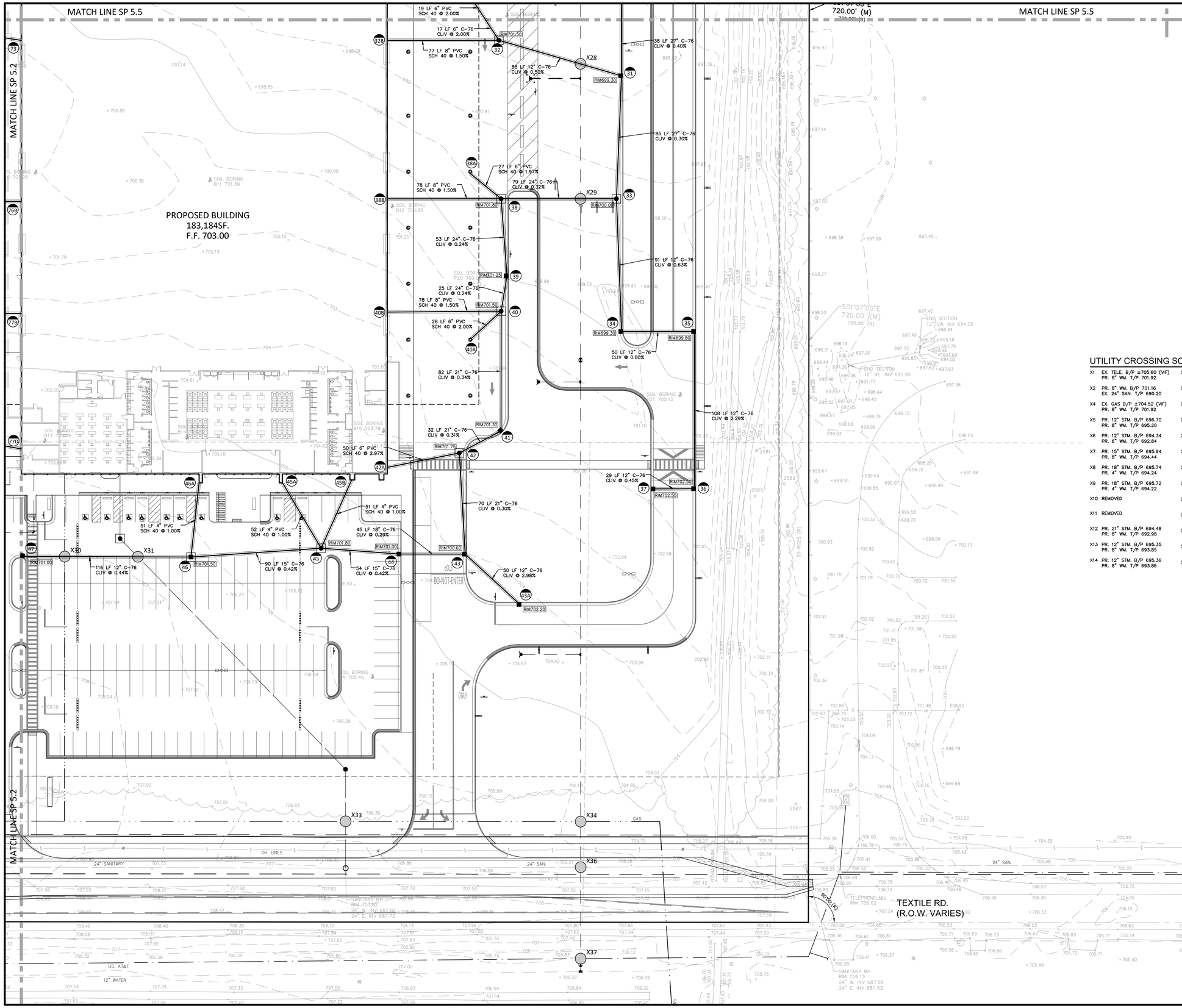
- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- SAND BACKFILL (95 % DENSITY)
- PROPOSED LIGHT POLE

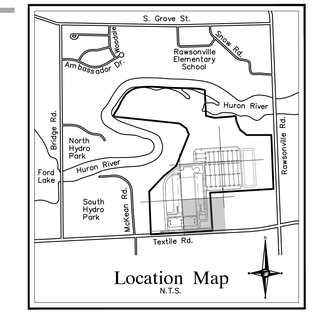
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 5.2





Location Map
N.T.S.

UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15	PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28	PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2	PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16	PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29	PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4	EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17	PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30	PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18	PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31	PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33	EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34	EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21	PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36	PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9	PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22	PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37	EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10	REMOVED	X23	PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38	PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11	REMOVED	X24	PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39	PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12	PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25	PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40	PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26	PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41	PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14	PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27	PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42	PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03

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ESTIMATED QUANTITIES - THIS SHEET

STORM SEWER

DESCRIPTION	QUANTITY	UNITS
12" C-76, CLASS IV, SEWER PIPE	532	L.F.
15" C-76, CLASS IV, SEWER PIPE	144	L.F.
18" C-76, CLASS IV, SEWER PIPE	45	L.F.
21" C-76, CLASS IV, SEWER PIPE	184	L.F.
24" C-76, CLASS IV, SEWER PIPE	157	L.F.
27" C-76, CLASS IV, SEWER PIPE	123	L.F.
4" PVC, SCH. 40, SEWER PIPE	154	L.F.
6" PVC, SCH. 40, SEWER PIPE	122	L.F.
8" PVC, SCH. 40, SEWER PIPE	156	L.F.
2' DIA. INLET	3	EA.
4' DIA. CATCH BASIN W/ 2' SUMP	9	EA.
4' DIA. MANHOLE	4	EA.
5' DIA. MANHOLE	2	EA.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
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- INLET, C.B., MANHOLE — PR. STORM SEWER
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SEAL

STATE OF MICHIGAN — BRAD W. BRICKEL — ENGINEER NO. 54071 — LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Drainage Plan

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DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 5.3

UTILITY CROSSING SCHEDULE

X1 EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5 PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13 PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
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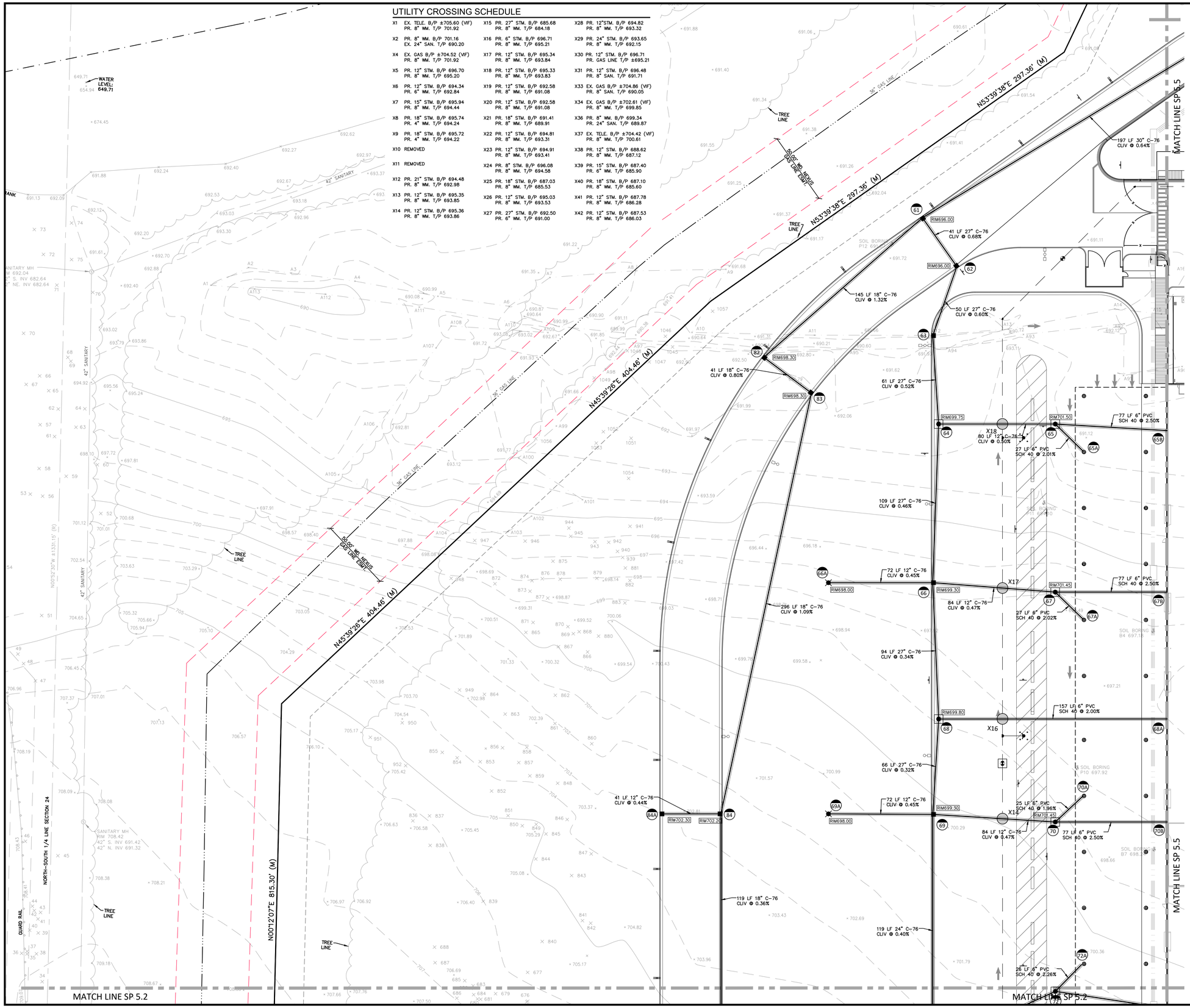

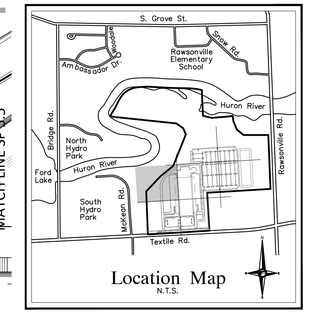

Location Map
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ESTIMATED QUANTITIES - THIS SHEET

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12" C-76, CLASS IV, SEWER PIPE	433	L.F.
18" C-76, CLASS IV, SEWER PIPE	600	L.F.
24" C-76, CLASS IV, SEWER PIPE	119	L.F.
27" C-76, CLASS IV, SEWER PIPE	421	L.F.
30" C-76, CLASS IV, SEWER PIPE	197	L.F.
6" PVC, SCH. 40, SEWER PIPE	493	L.F.
2' DIA. INLET	1	EA.
2' DIA. RYCB W/ 2' SUMP	2	EA.
4' DIA. CATCH BASIN W/ 2' SUMP	7	EA.
5' DIA. CATCH BASIN W/ 2' SUMP	1	EA.
4' DIA. MANHOLE	5	EA.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
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- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
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- C.O., MANHOLE — PR. SANITARY SEWER
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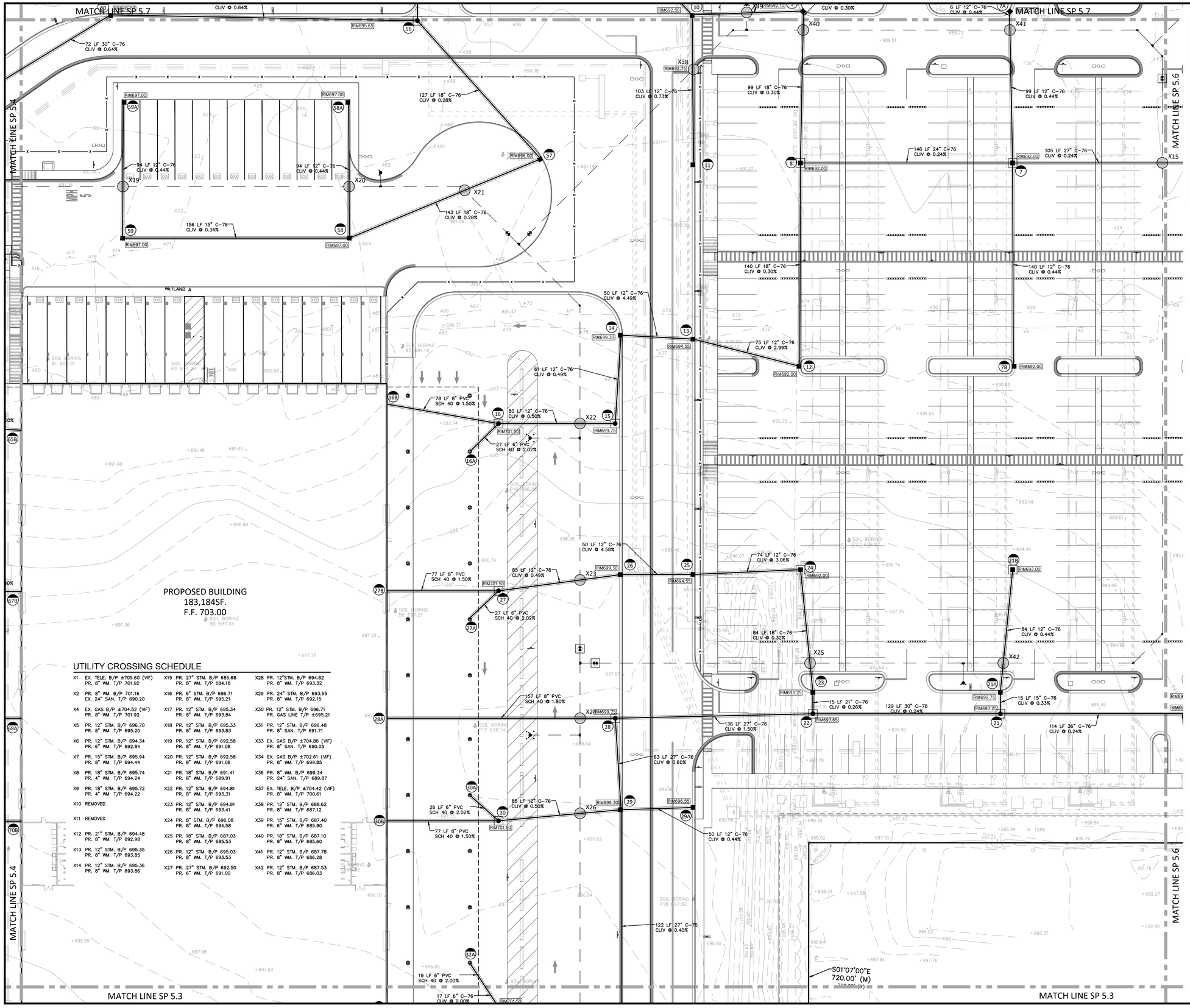
SCALE: 1" = 30'
30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 5.4



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X1 EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
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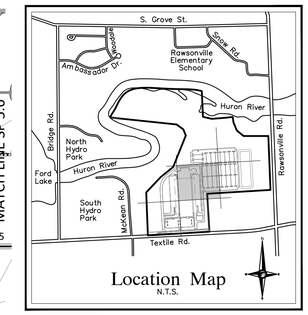
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13 PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14 PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27 PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42 PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03



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REFER TO SHEETS SP 5.2–SP 5.16 FOR STORM DRAINAGEPLANS, NOTES, DETAILS AND CALCULATIONS (TYP)

ESTIMATED QUANTITIES - THIS SHEET

STORM SEWER

DESCRIPTION	QUANTITY	UNITS
12" C-76, CLASS IV, SEWER PIPE	1,224	L.F.
15" C-76, CLASS IV, SEWER PIPE	171	L.F.
18" C-76, CLASS IV, SEWER PIPE	593	L.F.
21" C-76, CLASS IV, SEWER PIPE	15	L.F.
24" C-76, CLASS IV, SEWER PIPE	146	L.F.
27" C-76, CLASS IV, SEWER PIPE	426	L.F.
30" C-76, CLASS IV, SEWER PIPE	129	L.F.
36" C-76, CLASS IV, SEWER PIPE	114	L.F.
6" PVC, SCH. 40, SEWER PIPE	99	L.F.
8" PVC, SCH. 40, SEWER PIPE	389	L.F.
2' DIA. INLET	6	EA.
4' DIA. CATCH BASIN W/ 2' SUMP	11	EA.
5' DIA. CATCH BASIN W/ 2' SUMP	3	EA.
4' DIA. MANHOLE	4	EA.
5' DIA. MANHOLE	2	EA.
6' DIA. MANHOLE	2	EA.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- SAND BACKFILL (95 % DENSITY)
- PROPOSED LIGHT POLE

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LAND SURVEYORS
LAND PLANNERS

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FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN — BRAD W. BRICKEL — ENGINEER NO. 54071 — LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

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Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Drainage Plan

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09-24-21	TOPO SURVEY ISSUED
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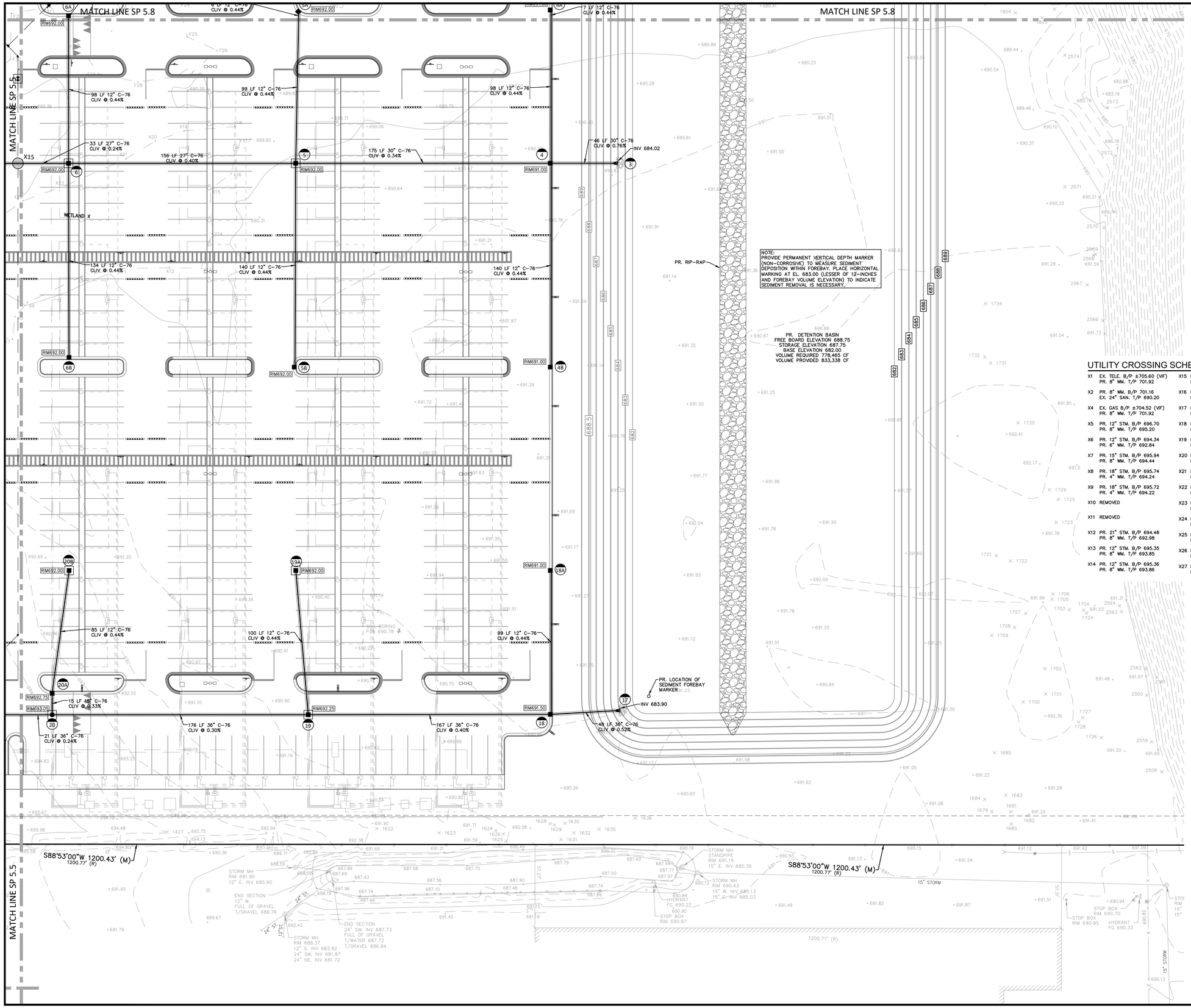
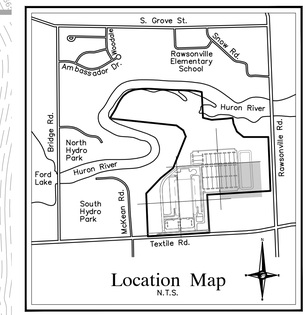
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 5.5





Location Map
N.T.S.

UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2	PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4	EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9	PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10	REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11	REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12	PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14	PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27 PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42 PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03

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ESTIMATED QUANTITIES - THIS SHEET

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DESCRIPTION	QUANTITY	UNITS
12" C-76, CLASS IV, SEWER PIPE	993	L.F.
15" C-76, CLASS IV, SEWER PIPE	15	L.F.
27" C-76, CLASS IV, SEWER PIPE	189	L.F.
30" C-76, CLASS IV, SEWER PIPE	221	L.F.
36" C-76, CLASS IV, SEWER PIPE	412	L.F.
2' DIA. INLET	6	EA.
4' DIA. CATCH BASIN W/ 2' SUMP	2	EA.
5' DIA. CATCH BASIN W/ 2' SUMP	4	EA.
5' DIA. MANHOLE	1	EA.
30" CONC. END SECTION	1	EA.
36" CONC. END SECTION	1	EA.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
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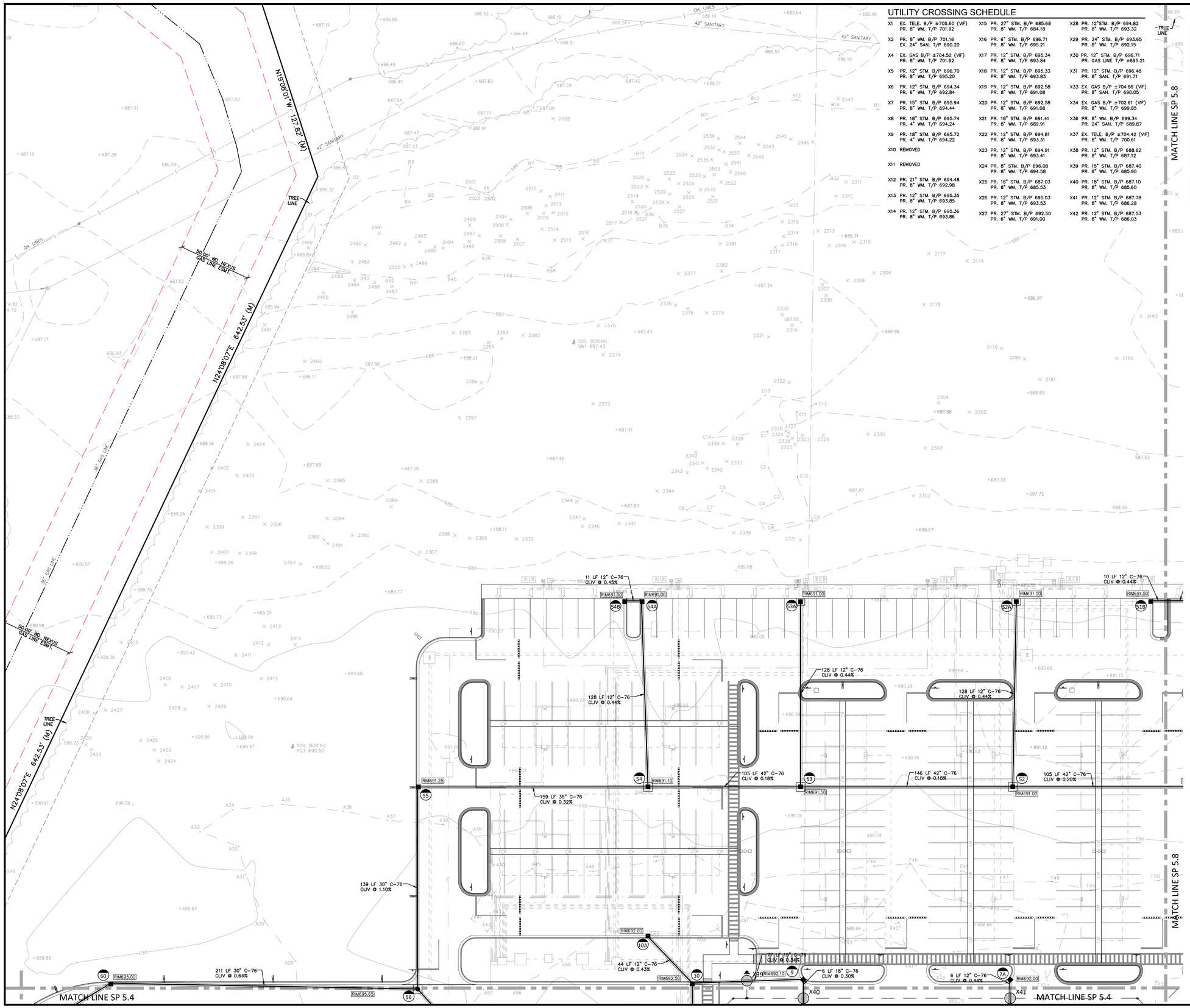
NFE JOB NO. M278-01
SHEET NO. SP 5.6



UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15	PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28	PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2	PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16	PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29	PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4	EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17	PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30	PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18	PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31	PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33	EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34	EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21	PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36	PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
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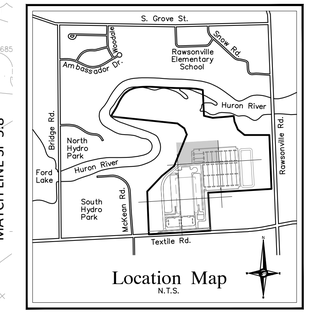
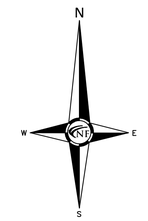
X10	REMOVED	X23	PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38	PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11	REMOVED	X24	PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39	PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12	PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25	PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40	PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26	PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41	PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14	PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27	PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42	PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03



Location Map
N.T.S.



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15" C-76, CLASS IV, SEWER PIPE	77	L.F.
18" C-76, CLASS IV, SEWER PIPE	6	L.F.
30" C-76, CLASS IV, SEWER PIPE	350	L.F.
36" C-76, CLASS IV, SEWER PIPE	159	L.F.
42" C-76, CLASS IV, SEWER PIPE	356	L.F.
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4' DIA. CATCH BASIN W/ 2' SUMP	3	EA.
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6' DIA. CATCH BASIN W/ 2' SUMP	4	EA.

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	EXISTING BURIED CABLES
UTILITY POLE / GUY POLE / GUY WIRE	OVERHEAD LINES
	LIGHT POLE
	SIGN
	EXISTING GAS MAIN
C.O. / MANHOLE	PR. SANITARY SEWER
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NFE JOB NO. M278-01

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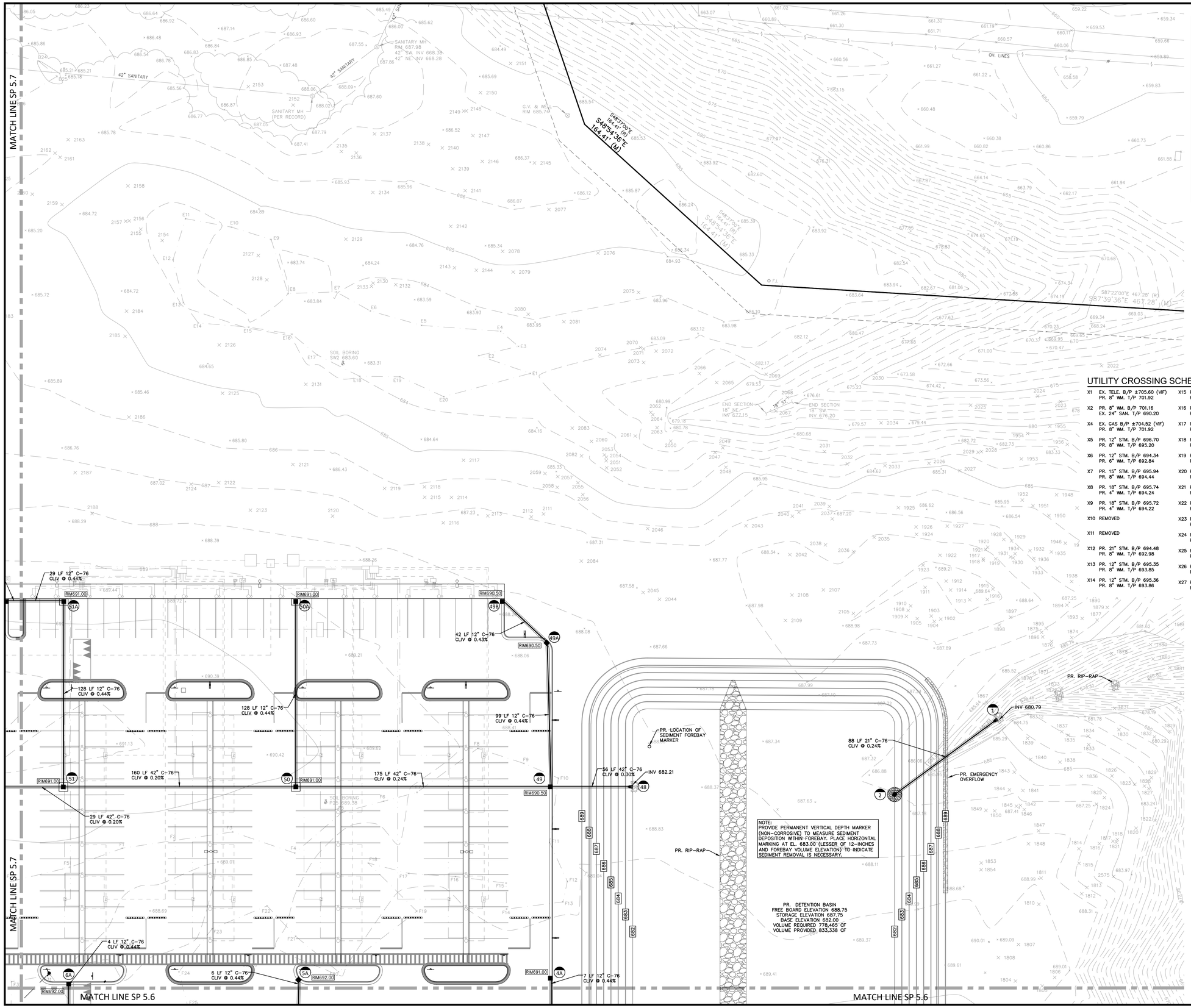
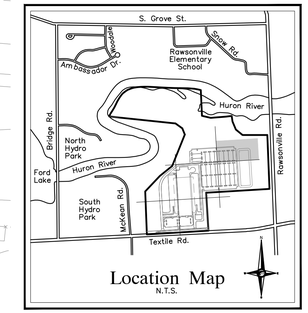




UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (WF) PR. 8" WM. T/P 701.92	X15	PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28	PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2	PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16	PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29	PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4	EX. GAS B/P ±704.52 (WF) PR. 8" WM. T/P 701.92	X17	PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30	PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18	PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31	PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33	EX. GAS B/P ±704.86 (WF) PR. 8" SAN. T/P 690.05
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34	EX. GAS B/P ±702.61 (WF) PR. 8" WM. T/P 699.85
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21	PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36	PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9	PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22	PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37	EX. TELE. B/P ±704.42 (WF) PR. 8" WM. T/P 700.61
X10	REMOVED	X23	PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38	PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11	REMOVED	X24	PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39	PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12	PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25	PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40	PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26	PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41	PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14	PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27	PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42	PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03

NOTE

ALL IRRIGATION AND EV CONDUIT SHALL BE INSTALLED ABOVE ALL PROPOSED UTILITIES. NO CONFLICTS WILL OCCUR. THESE SHALL ALSO BE INSTALLED AFTER ALL OTHER UTILITIES ARE COMPLETED.

NOTES

REFER TO SHEETS SP 3.0–SP 3.9 FOR ADDITIONAL PROJECT NOTES & DIMENSIONS (TYP)

REFER TO SHEETS SP 4.0–SP 4.8 FOR DETAILED PAVING NOTES AND DETAILS (TYP)

REFER TO SHEETS SP 5.2–SP 5.16 FOR STORM DRAINAGEPLANS, NOTES, DETAILS AND CALCULATIONS (TYP)

ESTIMATED QUANTITIES - THIS SHEET

STORM SEWER

DESCRIPTION	QUANTITY	UNITS
12" C-76, CLASS IV, SEWER PIPE	414	L.F.
21" C-76, CLASS IV, SEWER PIPE	88	L.F.
42" C-76, CLASS IV, SEWER PIPE	420	L.F.
2' DIA. INLET	5	EA.
4' DIA. CATCH BASIN W/ 2' SUMP	2	EA.
6' DIA. CATCH BASIN W/ 2' SUMP	3	EA.
4' DIA. CMP STANDPIPE	1	EA.
21" CONC. END SECTION	1	EA.
42" CONC. END SECTION	1	EA.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- SAND BACKFILL (95 % DENSITY)
- PROPOSED LIGHT POLE

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN — BRAD W. BRICKEL — ENGINEER NO. 54071 — LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

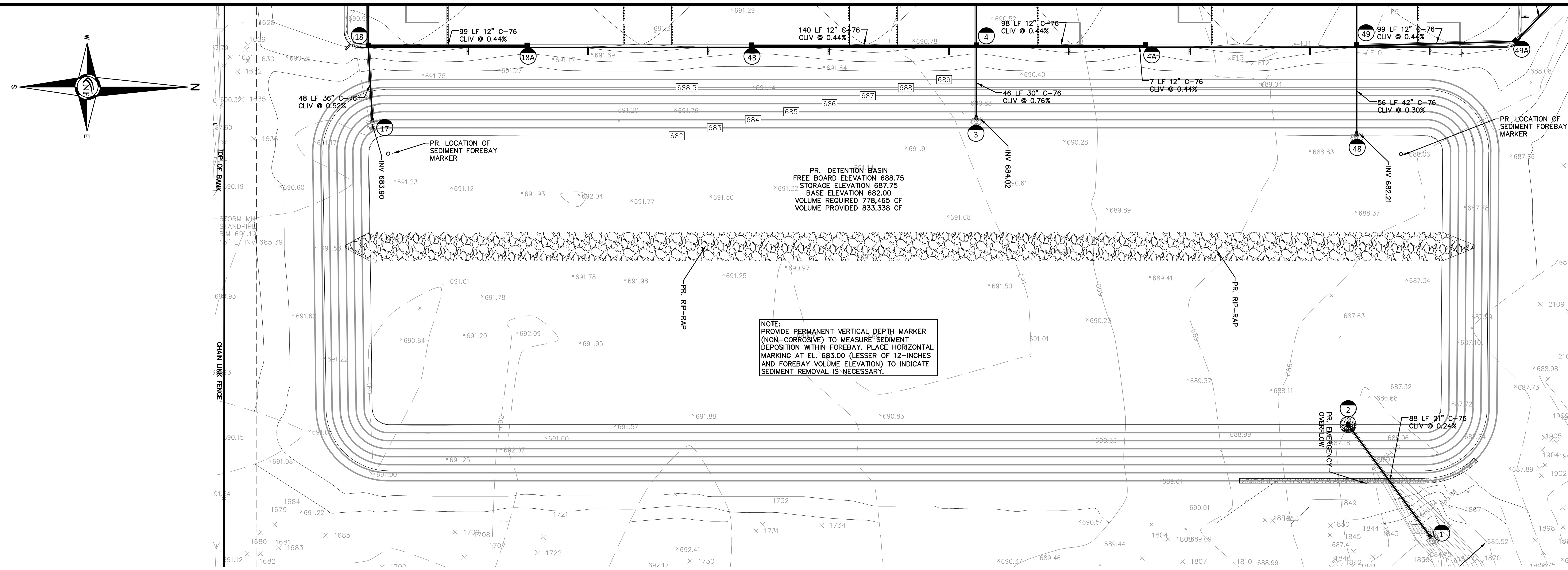
SHEET
Storm Drainage Plan

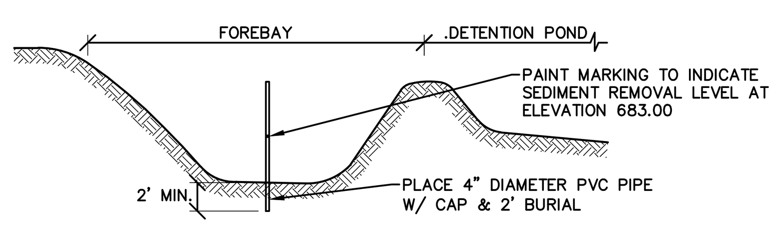
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

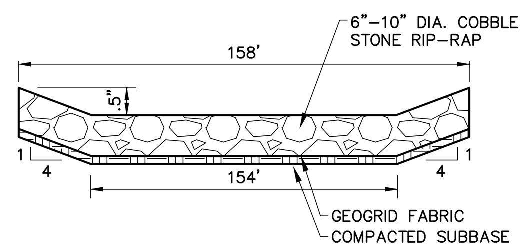
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 5.8

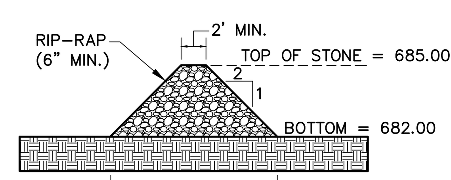




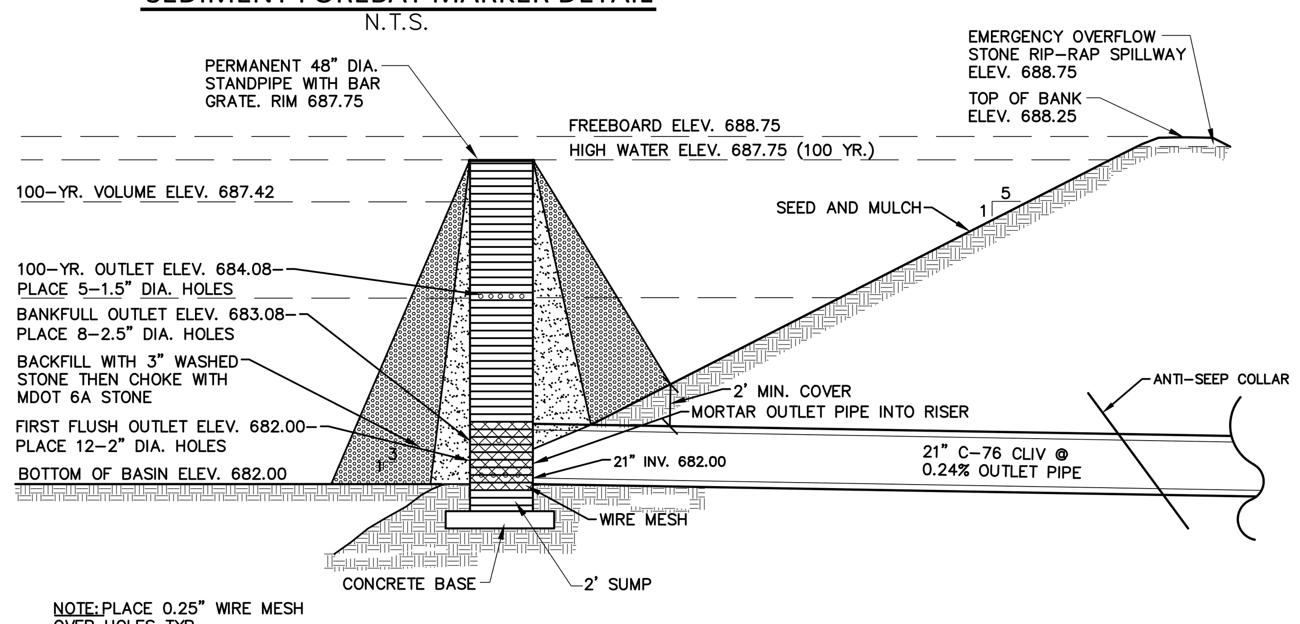
SEDIMENT FOREBAY MARKER DETAIL
N.T.S.



ARMORED BASIN OVERFLOW WEIR
N.T.S.

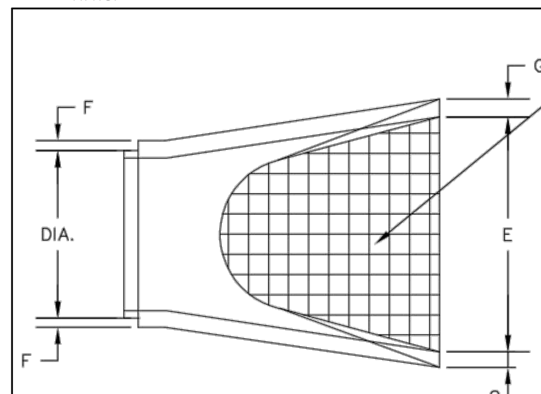


RIP-RAP FILTER RING DETAIL
N.T.S.

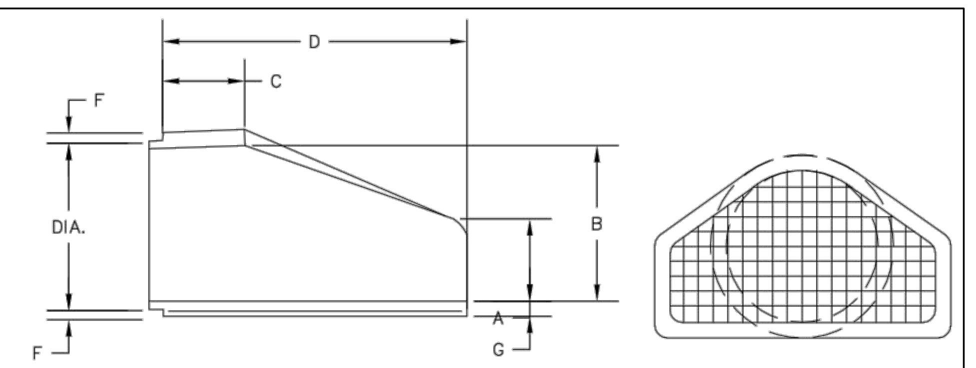


NOTE: PLACE 0.25" WIRE MESH OVER HOLES TYP.

DETENTION BASIN OUTLET SECTION - STORM STRUCTURE #2
N.T.S.

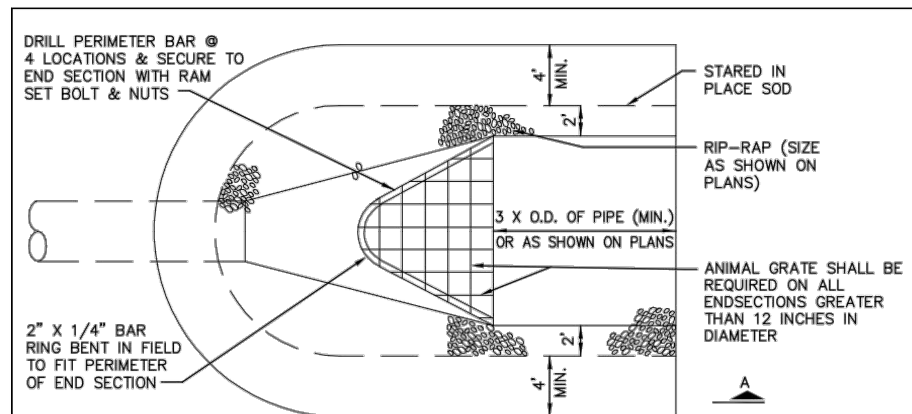


DIA	A	B	C	D	E	F	G
12"	5"	13"	45.5"	72"	24"	2"	2"
15"	7"	16"	43.5"	72"	30"	2.25"	2.25"
18"	11"	19"	41.5"	72"	36"	2.5"	2.5"
24"	12"	25"	29"	72"	48"	3"	2"
30"	14"	31"	19"	72"	60"	3.5"	3.5"
36"	17"	37"	34.5"	96"	72"	4"	4"
42"	22"	43"	32.5"	96"	78"	4.5"	4.5"
48"	24"	49"	23.5"	96"	84"	5"	5"



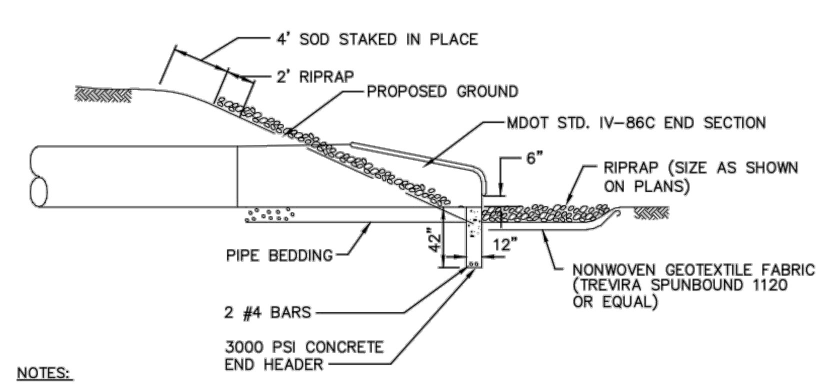
NOTE:
FLARED END SECTIONS SHALL BE MANUFACTURED TO THE CLASS SPECIFICATIONS AS THE PIPE ITSELF.

STANDARD END SECTIONS FOR PRECAST CONCRETE



PLAN VIEW

3. RIPRAP THICKNESS AS SHOWN ON PLANS.



NOTES:
EXTENT OF RIPRAP SHALL BE AS SHOWN HERE OR AS SHOWN ON PLANS, WHICHEVER IS GREATEST.

SECTION A-A

END SECTION AND RIPRAP DETAIL

PROVIDED FOREBAY VOLUME

ELEVATION	SURFACE AREA SF.	INCR. VOLUME CF.	CUMULATIVE VOLUME CF.
682.00	40,055		
		42,696	42,696
683.00	45,337		
		48,037	90,733
684.00	50,736		
		53,494	144,227
685.00	56,252		
VOLUME PROVIDED (CF):			144,227

PROVIDED DETENTION VOLUME - INCLUDING FOREBAYS

ELEVATION	SURFACE AREA SF.	INCR. VOLUME CF.	CUMULATIVE VOLUME CF.
682.00	120,079		
		124,313	124,313
683.00	128,547		
		132,860	257,173
684.00	137,173		
		141,565	398,738
685.00	145,956		
		150,426	549,164
686.00	154,896		
		159,445	708,608
687.00	163,993		
		124,730	833,338
687.75	168,620		
VOLUME PROVIDED (CF):			833,338

Overflow Weir Spillway (100) Year Storm Event

CONTRIBUTING ACREAGE:	45.02 ACRES
RUNOFF COEFFICIENT (C):	0.80 IMPERVIOUSNESS
TIME OF CONCENTRATION (Tc):	29.64 MINUTES
INTENSITY (100yr), I:	5.03 INCHES/HR.
FLOW RATE (100YR), Q:	183.26 *CFS
TOP OF BANK ELEV.:	688.50 FEET
SPILLWAY (CREST) ELEV.:	688.00 FEET
HEAD ABOVE WEIR CREST, H:	0.50 FEET
REQUIRED LENGTH OF SPILLWAY, L:	**153.9 FEET**

Required Formulae:
Q = CIA   Intensity(100yr) = 275/(Tc + 25)
Q = 3.367 * L * H^(3/2)   (Cipoletti Weir)

NOTES

REFER TO SHEETS SP 3.0–SP 3.9 FOR ADDITIONAL PROJECT NOTES & DIMENSIONS (TYP)

REFER TO SHEETS SP 4.0–SP 4.8 FOR DETAILED PAVING NOTES AND DETAILS (TYP)

REFER TO SHEETS SP 5.2–SP 5.16 FOR STORM DRAINAGEPLANS, NOTES, DETAILS AND CALCULATIONS (TYP)

POND TREATMENT NOTE

NO CHEMICALS ARE ALLOWED IN STORMWATER FEATURES OR BUFFER ZONES WITH THE FOLLOWING EXCEPTION: INVASIVE SPECIES MAY BE TREATED WITH CHEMICALS BY A CERTIFIED APPLICATOR.

MULTI-STAGE ORIFICE OUTLET CONTROL STRUCTURE CALCULATIONS - DETENTION BASIN

Based on WCWRC Requirements	
Name of Project:	Project Yoga
Location of Project:	Ypsilanti Twp.
Total Site Acreage:	45.020 acres
Contributing Acreage ("A"):	45.020 acres
Weighted Runoff Coefficient ("C"):	0.798
Allowable Discharge Rate:	0.15 cfs/acre
Qa = A*(Allowable Discharge) =	6.75 cfs
Multi-Stage Circular Orifice Outlet Equations	
Outlet Elevations	
Ztop	687.75 (Elev. @ 100-Year Storage)
Zo	682.00 (Elev. @ Bottom of Det. Storage)
Zoutlet	682.00 (Elev. @ Outlet Control)
First Flush Calculations (Formula: Vff = 3630*A*C)	
Vff (First Flush Volume) =	**130,357.86 cubic feet**
Zff (First Flush Elevation) =	683.08
Outlet Calculations for First Flush Volume	
A. Determine Required Orifice Size	
Qmin-ff (Req. Ave. Release Rate, 24 hour release) (Vff/(24*3600))	1.51 cfs
Have (Average Head) ((2/3)*(Zff-Zo))	0.72 feet
Areq-ff (Area of Orifice (square feet) required to discharge Qmin-ff) (Qmin-ff/((0.62*(2*32.2*Have)^0.5))	**0.357 square feet**
B. Select Number and Size for Proposed Orifice(s)	
Selected Diameter of Orifice(s) (inches)	2.000 inch
Aorf (Area of selected orifice(s) in square feet)	0.022 square feet
Max. # of Orifices (at Zoutlet) (Areq-ff/Aorf)	16.381 Orifice(s)
Provided # of orifices (at Zoutlet)	12 Orifice(s)
Aact-ff (Provided total orifice area (at Zoutlet) (Aorf * # orifice(s))	**0.262 square feet**
C. Calculate Actual First Flush Flow Rate & Detention Time (Must exceed 24-hour storage time)	
Qact-ff (Actual Average Realease Rate) (0.62*Aact-ff)*(2gh)^0.5)	1.11 cfs
Tff (Actual Holding Time) (Vff/Qact-ff/3600 sec/hr)	***32.76 hours***
Bankfull Flood Calculations (Formula: Vbf = 5160*A*C)	
Vbf (Bankfull Flood Volume) =	**268,846.22 cubic feet**
Zbf (Bankfull Flood Elevation) =	684.08
Outlet Calculations for Bankfull Flood Volume	
A. Check if additional holes for bankfull volume are required at first flush elevation.	
Have-ff (Avg Head on FF Hole(s)) ((2/3)*(Zbf-Zo)	1.39 feet
Qcheck (Check flow through First Flush Holes) (0.62*Aact-ff)*(2*32.2*Have-ff)^0.5)	1.53 cfs
Tcheck (Check Detention Time w/ only First Flush Holes) (Vbf/Qcheck) *(1 hr/3600 sec)	48.69 hours*
**Since detention time would exceed 48 hours, additional holes are required.*	
B. Calculate Remaining Volume and Time between Bankfull and First Flush	
(Vrem (Vbf-Vff)) (Remaining Volume-difference between Vbf and Vff)	138,488.36 cubic feet
Select Ttarget (Target Release Time for Remaining Volume must be between 36 and 48 hours)	44.00 hours
(Trem = (Ttarget - Tff)) (Time Remaining)	**11.24 hours**
C. Calculate Release through F.F. Holes during Time Remaining (while F.F. and B.F. holes are contributing)	
Have-ff (Avg Head on FF Hole(s)) ((2/3)*((Zbf-Zff)+(Zff-Zo))	1.75 feet
Qff+bf (Flow through FF Holes when FF and BF volumes are contributing) (0.62*Aact-ff)*(2*32.2*Have-ff)^0.5)	1.72 cfs
Vff+bf (Trem*Qff+bf)*(3600 sec/1 hr)	**69,648.77 cubic feet**
D. Calculate "leftover" volume to be realeased through B.F. holes and required Orifice Size at Zff	
Vbf (Vrem-Vff+bf) (Volume released by BF orifice(s) in Time Remaining (Trem)	68,839.59 cubic feet
Qbf (Vbf/Trem/3600 sec/1 hr)	1.70 cfs
Have-bf (Avg Head on BF Hole(s)) ((2/3)*(Zbf-Zff)	0.67 feet
Areq-bf (Area of Orifice (square feet) required to discharge Qbf at Zff) ((Qbf/((0.62*(2*32.2*Have-bf)^0.5))	**0.42 square feet**
E. Select Number and Size for Proposed Orifice(s)	
Diameter of Orifice (inches)	2.500 inch
Aorf (Area of Orifice (square feet)	0.034 square feet
Max. # of Orifices (at Zff) (Areq-bf/Aorf)	12.287 Orifice(s)
Provided # of orifices (at Zoutlet)	8 Orifice(s)
Aact-bf (Provided total orifice area (at Zff) (Aorf * # orifice(s))	**0.273 square feet**
Calculate Actual Bankfull Flow Rate & Detention Time	
Qact-bf (Actual Average Release Rate) (0.62*Aact-bf)*(2gh)^0.5)	1.11 cfs
Tbf (Actual Holding Time) (Tff + (Vrem/(Qff+bf + Qact-bf))/3600 sec/1 hr) (Must be between 36 and 48 hours)	***46.36 hours***
100-Year Storm (1% Storm) Calculations	
A. Calculate maximum flow passing through F.F and B.F orifices to determine required Orifice Size at Zbf	
Qff (Flow through FF Holes when FF and BF volumes are contributing) (0.62*Aact-ff)*(2*32.2*(Ztop-Zo)^0.5)	3.12 cfs
Qbf (Flow through BF Holes when FF and BF volumes are contributing) (0.62*Aact-bf)*(2*32.2*(Ztop-Zff)^0.5)	2.93 cfs
Qff + Qbf	6.06 cfs
Qmax-100 (Qa-(Qff+bf))	0.70 cfs
Amax-100 ((Qmax-100)/(0.62*(2*32.2*(Ztop-Zbf))^0.5)	0.10 square feet
Select Number and Size for Proposed Orifice(s)	
Diameter of Orifice (inches)	1.500 inch
Aorf (Area of Orifice (square feet)	0.012 square feet
Max. # of Orifices (at Zff) (Areq-bf/Aorf)	8.361 Orifice(s)
Provided # of orifices (at Zoutlet)	5 Orifice(s)
Aact-100 (Provided total orifice area (at Zbf) (Aorf * # orifice(s))	**0.061 square feet**
B. Check that allowable flow rate has not been exceeded by actual orifices provided.	
Qff + Qbf + (0.62*Aact-100)*(2*32.2*(Ztop-Zbf)^0.5)	**6.64 cfs***
*Orifice design is acceptable for flow rate since provided orifices discharge less than Qa.	
C. Calculate flow discharge through F.F. holes when all holes are contributing	
Hall-ave (2/3)*(Ztop-Zbf)+(Zbf-Zo)	4.53 feet
Qall (Discharge through F.F orifice(s) when all holes are contributing) (0.62*Aact-ff)*((2*32.2*Hall-ave)^0.5))	2.77 cfs
D. Calculate flow discharge through B.F. holes when all holes are contributing	
Hbf-ave (2/3)*(Ztop-Zbf)+(Zbf-Zff)	3.45 feet
Qbf+100 (Discharge through B.F. orifice(s) when all holes are contributing) (0.62*Aact-bf)*((2*32.2*Hbf-ave)^0.5))	2.52 cfs
E. Calculate flow discharge through 10-year holes when all holes are contributing	
H100-ave (2/3)*(Ztop-Zbf)	2.45 feet
Q100-ave (Discharge through 100-year orifice(s) when all holes are contributing) (0.62*Aact-100)*((2*32.2*H100-ave)^0.5))	0.48 cfs
F. Confirm 100-year storm volume is discharged in less than 72 hours.	
V100 (Volume of 100-year Storm)	778,465.34 cubic feet
Vrem (V100-Vbf)	509,619.12 cubic feet
T100 = Tbf + ((Vrem/(Qall + Qbf+100 + Q100-ave)*(3600 sec/1 hr))	70.90 hours*
****Since total detention time for 100-year storm volume is less than 72 hours, design meets both time of detention and flow rate requirements.***	

PROJECT YOGA - (DETENTION POND)
RAWSONVILLE ROAD DRAINAGE AREA - STORM WATER DETENTION CALCULATIONS

DETENTION BASIN DESIGN
WASHTENAW COUNTY METHOD

POST DEVELOPMENT
PART E
W1 (Post Development)

Cover	Soil Type	Area (sf)	Area (ac)	Runoff Coeficient	CxA
WATER	NA	154,896.00	3.556	1.00	3.556
PAVING	NA	1,049,586.35	24.095	0.95	22.890
BUILDING	NA	275,363.36	6.321	0.95	6.005
Green Space Good*	B	449,575.29	10.321	0.3	3.096
Green Space Good*	D	31,647.00	0.727	0.5	0.363
				Total CxA	35.911
				Total Site Area	45.020
				Weighted C	0.798

Cover	Soil Type	Area (sf)	Area (ac)	CN	CNxA
WATER	NA	154,896.00	3.556	100	355.592
PAVING	NA	1,049,586.35	24.095	98	2361.328
BUILDING	NA	275,363.36	6.321	98	619.504
Green Space Good*	B	449,575.29	10.321	61	629.571
Green Space Good*	D	31,647.00	0.727	80	58.121

*Soil types BnB "Boyer Loamy Sand" Soil B, MaA "Macomb Loam" Soil B, MfA "Metamora Sandy Loam" Soil B, OwB "Owosso-Miami" Soil B, Gf "Gilford Sandy Loam" Soil D/B,exist on site per the USDA web soil survey. Based on previous soil boring sata from report furnished by SME, dated 08/12/21, existing soils consist of sandy lean clay to a depth of at least 7 feet. Based on this infromation, curve numbers for hydrologic group B, D/B from Section IV, Table 4 of the WCWRC Compuational Requiremtns for Stormwater Management Systems, have been assumed.

Total CNxA 4024.117
Total Site Area 45.020
Weighted CN 89.39

PRE- DEVELOPMENT
PART E
W1(Pre-Development)

Cover	Soil Type	Area (sf)	Area (ac)	Runoff Coeficient	CxA
WATER	NA	0.00	0.000	1	0.000
PAVING	NA	0.00	0.000	0.95	0.000
BUILDING	NA	0.00	0.000	0.95	0.000
Green Space Woods Good*	B	1,879,509.00	43.148	0.3	12.944
Green Space Woods Good*	D	81,560.00	1.872	0.5	0.936
				Total CxA	13.880
				Total Site Area	45.020
				Weighted C	0.308

Cover	Soil Type	Area (sf)	Area (ac)	CN	CNxA
WATER	NA	0.00	0.000	100	0.000
PAVING	NA	0.00	0.000	98	0.000
BUILDING	NA	0.00	0.000	98	0.000
Green Space Woods Good*	B	1,879,509.00	43.148	58	2502.560
Green Space Woods Good*	D	81,560.00	1.872	79	147.916

*Soil types BnB "Boyer Loamy Sand" Soil B, MaA "Macomb Loam" Soil B, MfA "Metamora Sandy Loam" Soil B, OwB "Owosso-Miami" Soil B, Gf "Gilford Sandy Loam" Soil D/B,exist on site per the USDA web soil survey. Based on previous soil boring sata from report furnished by SME, dated 08/12/21, existing soils consist of sandy lean clay to a depth of at least 7 feet. Based on this infromation, curve numbers for hydrologic group B, D/B from Section IV, Table 4 of the WCWRC Compuational Requiremtns for Stormwater Management Systems, have been assumed.

Total CNxA 2650.477
Total Site Area 45.020
Weighted CN 58.87

W2
First Flush Volume (First 1" of rain over entire watershed)

Vff = (1 in)*(1 ft/12 in)*(43560 ft^2 / 1 acre) *A*C
Vff = 130,357.86 cf

W3-PRE-DEVELOPMENT-Bankfull
P= 2.35 in
CN= 58.87
S= 1000/CN-10
S= 6.986 in
Q= (P-0.2*S)^2/(P+0.8*S)
Q= 0.114 in
A= 1,961,069.00 Total Site Area Excluding Self Crediting BMP SF
Vbf-pre = Q(1/12)Area
Vbf-pre = 18691.731 cf

W4-Pervious Post-Development-Bankfull
P= 2.35 in
CN (Pervious)= 62
S= 1000/CN-10
S= 6.064 in
Q= (P-0.2*S)^2/(P+0.8*S)
Q= 0.180 in
A= 481,222.290 Pervious Cover Area Post Dev. SF
Vbf-per-post = Q(1/12)Area
Vbf-per-post = 7200.395 cf

W5-Impervious Post-Development-Bankfull
P= 2.35 in
CN(Impervious)= 98
S= 1000/CN-10
S= 0.204 in
Q= (P-.2*S)^2/(P+0.8*S)
Q= 2.122 in
A= 1,479,845.710 Impervious Cover Area Post Dev. SF
Vbf-imp-post = Q(1/12)Area
Vbf-imp-post = 261645.827 cf

W6-Pervious Post-Development-100 Year
P100= 5.11 in
CN (Pervious)= 62
S= 1000/CN-10
S= 6.064 in
Q= (P-0.2*S)^2/(P+0.8*S)
Q= 1.525 in
A= 481,222.290 Pervious Cover Area Post Dev. SF
V100-per-post Q(1/12)Area
V100-per-post = 61140.331 cf

W7-Impervious Post-Development-100 Year
P100= 5.11 in
CN(Impervious)= 98
S= 1000/CN-10
S= 0.204 in
Q= (P-0.2*S)^2/(P+0.8*S)
Q= 4.873 in
A= 1,479,845.710 Pervious Cover Area Post Dev. SF
V100-imp-post = Q(1/12)Area
V100-imp-post = 600940.709 cf

W8 Time of Concentration

Flow Type	K	Delta Elev.	L	Slope (%) (S)	S^.5	V=K*S^(1/2)	Tc-hrs =L/(V*3600)
Sheet Flow	0.48	1	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Pipe Flow			0			2.500	0.00
Tc Total							0.25

W9 Runoff Summary
Vff = 130,357.86 cf
Vbf-pre = 18691.731 cf
Vbf-per-post = 7200.395 cf
Vbf-imp-post = 261645.827 cf
V100-per-post = 61140.331 cf
V100-imp-post = 600940.709 cf

Total BF Volume (Vbf-post) 268846.222 cf
Total 100 Year Volume 662081.040 cf

Total BF Volume (Vbf-post) 268846.222 cf
Pre-Development Bankfull (Vbf-pre) 18691.731 cf
Bankfull Volume Difference 250154.491

Onsite Infiltration Req. 250154.491 cf (Greater Bankfull Volume Difference OR First Flush Volume)

W10 Detention /Retention Requirements
Qp= 238.6*Tc^0-.82
Qp= 743.635 cfs/in-mi^2
AreaTotal= 45.020
Q100= Q100per+Q100-imp
Q100= 6.398
Peak Flow (PF)= Qp*Q100*A/640
Delta= pf-.15*Area
Delta= 327.907 cfs
Vdet= Delta/pf*V100-Vint Required Detention
Vdet= 648721.119 *

W11 Applicable BMP's

Type or Description	Surface Area (SFT)	Storage Vol. (Surface-CFT)	Storage Vol. (20% Soil-	Design Infiltration Rate (in/hr)	6-hr. Infiltration	Total Volume Reduction (CFT)
Open Bottom Det	0.0	0		0	0	0

Runoff Volume Infiltration Requirement (W9): 250154.491
Runoff Volume Credit (CFT): 0.000

W12 Natural Features Inventory (N/A)

PROJECT YOGA - RAWSONVILLE ROAD DRAINAGE AREA
STORM WATER DETENTION CALCULATIONS W/O INFILTRATION

W13 Site Summary

A. Stormwater Management Summary	
Minimum Onsite Infiltration Volume:	250154.491 cf
Designed/Provided Infiltration Volume:	0 cf
% Minimum Required Infiltration Provided:	0.00%
Total Calculated Detention Volume, Vdet:	648721.119 cf
Runoff Volume Credit:	0.000 cf
Net Required Detention:	648721.119 cf
B. Det Vol Increase where the required infiltration volume cannot be achieved	
% Required Infiltration NOT provided (100% min reqd	100.00%
Net % Penalty (20% x %Reqd Infil Not Provided)	20.00%
Total Required Detention Volume including penalty (100% + Net % Penalty) x Net Required Detention	778465.34 CF

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STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Detention Details & Calculations

Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
J. Lawrey
DESIGNED BY:
B. Brickel
APPROVED BY:
B. Brickel
DATE:
September 24, 2021
SCALE: 1" = 40'
40 20 0 20 40 60

NFE JOB NO. M278-01
SHEET NO. SP 5.9

T= 20 Minutes — Time of Concentration
I = 175 / (T+25) — 10 Year Storm Event Intensity
n (Conc.) 0.013 — Manning's Roughness Coefficient
n (Pvc) 0.011 — Manning's Roughness Coefficient

Ypsilanti Township, Washtenaw County, MI
Storm Sewer Calculations

Project No: M278
Project Name: Project Yoga
Location: Textile Road
Dated: 11/11/21

Drainage Area (Location)	From Manhole Number	To Manhole Number	Drainage Area (Acres)	Runoff Coefficient (C)	Equivalent Area (C * A)	Total Area (Sum C * A)	Time of Concentration (Minutes)	Rainfall Intensity (Inches/Hr.)	Actual Discharge (CFS)	Pipe Size (Inches)	Pipe Slope (% Slope)	Pipe Length (Feet)	Flow Full Velocity (Ft / Sec)	Time of Flow (Minutes)	Full Pipe Capacity (CFS)	H. G. Elev. Upper End (Feet)	H. G. Elev. Lower End (Feet)	H. G. Slope (% Slope)	Theoretical Velocity (Ft / Sec)	Ground Elevation (Upper)	Change in Elevation (Feet)	Invert Elev. Upper End (Feet)	Invert Elev. Lower End (Feet)
1	88	87	1.610	0.35	0.564	0.564	20.00	3.889	2.191	12	0.44	140	3.01	0.78	2.36	702.71	702.18	0.378	2.790	706.00	0.62	702.00	701.38
---	87	86	0.000	0.35	0.000	0.564	20.78	3.823	2.154	12	1.18	209	4.92	0.71	3.87	700.25	699.48	0.366	2.743	708.10	2.46	701.28	698.82
2	86A	86	0.250	0.71	0.178	0.178	20.00	3.889	0.690	12	0.44	41	3.01	0.23	2.36	699.50	699.48	0.038	0.879	703.00	0.18	699.00	698.82
3	86	85	0.240	0.77	0.185	0.926	21.48	3.765	3.485	15	0.34	125	3.07	0.68	3.77	699.48	699.12	0.291	2.840	703.00	0.43	698.72	698.30
4	85B	85A	1.110	0.35	0.389	0.389	20.00	3.889	1.511	12	0.44	45	3.01	0.25	2.36	699.30	699.22	0.180	1.924	703.00	0.20	699.00	698.80
5	85A	85	0.100	0.79	0.079	0.468	20.25	3.867	1.808	12	0.44	41	3.01	0.23	2.36	699.22	699.12	0.258	2.302	703.00	0.18	698.70	698.52
6	85	84	0.090	0.93	0.084	1.477	22.16	3.711	5.481	18	0.36	326	3.57	1.52	6.30	699.12	698.23	0.272	3.101	703.00	1.17	698.20	697.03
7	84A	84	0.810	0.47	0.381	0.381	20.00	3.889	1.481	12	0.44	41	3.01	0.23	2.36	698.49	698.42	0.173	1.885	701.80	0.18	697.80	697.62
8	84	83	0.160	0.95	0.152	2.010	23.69	3.595	7.224	18	1.09	296	6.21	0.79	10.97	696.08	694.68	0.473	4.088	701.80	3.23	696.93	693.70
9	83	82	0.150	0.81	0.122	2.131	24.48	3.537	7.538	18	0.80	41	5.32	0.13	9.40	694.68	694.47	0.515	4.265	698.30	0.33	693.60	693.27
10	82	61	0.120	0.95	0.114	2.245	24.61	3.528	7.920	18	1.32	145	6.83	0.35	12.07	693.28	692.46	0.569	4.482	698.30	1.91	693.17	691.26
11	81	80	0.900	0.78	0.702	0.702	20.00	3.889	2.730	12	1.00	10	4.54	0.04	3.56	698.21	698.15	0.587	3.476	701.45	0.10	697.45	697.35
---	80	79	0.000	0.78	0.000	0.702	20.04	3.886	2.728	12	1.23	69	5.03	0.23	3.95	697.28	696.87	0.586	3.473	701.45	0.85	697.25	696.40
12	79	78	0.490	0.82	0.402	1.104	20.27	3.866	4.267	15	0.64	17	4.21	0.07	5.17	696.87	696.80	0.436	3.477	700.50	0.11	696.20	696.09
13	78	77C	0.330	0.95	0.314	1.417	20.33	3.860	5.471	18	0.40	29	3.76	0.13	6.64	696.80	696.72	0.271	3.096	700.80	0.12	695.99	695.87
14	77D	77C	0.140	0.95	0.133	0.133	20.00	3.889	0.517	6	3.00	78	5.85	0.22	1.15	697.56	697.09	0.608	2.634	703.00	2.34	699.00	696.66
---	77C	77	0.000	0.95	0.000	1.550	20.46	3.849	5.968	18	0.40	79	3.76	0.35	6.64	696.72	696.47	0.323	3.377	701.45	0.32	695.77	695.45
15	77B	77	0.210	0.95	0.200	0.200	20.00	3.889	0.776	6	2.50	78	5.34	0.24	1.05	698.52	697.45	1.369	3.951	703.00	1.95	699.00	697.05
16	77A	77	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	27	4.78	0.09	0.94	697.97	697.76	0.795	3.011	701.90	0.54	697.90	697.36
---	77	75	0.000	0.95	0.000	1.902	20.81	3.820	7.265	21	0.42	31	4.27	0.12	10.27	696.47	696.40	0.210	3.020	701.60	0.13	695.13	695.00
17	76B	76	0.230	0.95	0.219	0.219	20.00	3.889	0.850	6	2.50	78	5.34	0.24	1.05	698.73	697.45	1.642	4.328	703.00	1.95	699.00	697.05
18	76A	76	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	29	4.78	0.10	0.94	697.95	697.72	0.795	3.011	701.90	0.58	697.90	697.32
---	76	75	0.000	0.95	0.000	0.371	20.24	3.868	1.433	12	0.44	46	3.01	0.25	2.36	696.46	696.39	0.162	1.825	701.65	0.20	695.79	695.59
19	75	74	0.070	0.95	0.067	2.339	20.93	3.810	8.911	21	0.53	79	4.80	0.27	11.54	695.28	695.03	0.316	3.705	701.25	0.42	694.90	694.48
20	74A	74	0.340	0.35	0.119	0.119	20.00	3.889	0.463	12	0.44	20	3.01	0.11	2.36	695.71	695.71	0.017	0.589	699.00	0.09	695.00	694.91
21	74	71	0.410	0.78	0.320	2.778	21.21	3.787	10.520	24	0.24	130	3.53	0.61	11.08	695.03	694.75	0.216	3.349	699.60	0.31	694.28	693.97
22	73	72	0.230	0.95	0.219	0.219	20.00	3.889	0.850	6	2.50	78	5.34	0.24	1.05	698.73	697.45	1.642	4.328	703.00	1.95	699.00	697.05
23	72A	72	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	26	4.78	0.09	0.94	697.99	697.78	0.795	3.011	701.90	0.52	697.90	697.38
---	72	71	0.000	0.95	0.000	0.371	20.24	3.868	1.433	12	0.44	92	3.01	0.51	2.36	696.24	696.09	0.162	1.825	701.50	0.40	695.69	695.29
24	71A	71	0.520	0.35	0.182	0.182	20.00	3.889	0.708	12	0.44	30	3.01	0.17	2.36	694.76	694.75	0.039	0.901	698.00	0.13	694.00	693.87
25	71	69	0.360	0.95	0.342	3.672	21.82	3.738	13.725	24	0.40	160	4.55	0.59	14.31	694.75	694.16	0.368	4.369	699.30	0.64	693.47	692.83
26	70B	70	0.230	0.95	0.219	0.219	20.00	3.889	0.850	6	2.50	77	5.34	0.24	1.05	698.74	697.48	1.642	4.328	703.00	1.93	699.00	697.08
27	70A	70	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	25	4.78	0.09	0.94	698.00	697.80	0.795	3.011	701.90	0.50	697.90	697.40
---	70	69	0.000	0.95	0.000	0.371	20.24	3.868	1.433	12	0.48	84	3.14	0.45	2.47	696.24	696.10	0.162	1.825	701.45	0.40	695.70	695.30
28	69A	69	0.520	0.35	0.182	0.182	20.00	3.889	0.708	12	0.44	72	3.01	0.40	2.36	694.61	694.58	0.039	0.901	698.00	0.32	694.00	693.68
29	69	68	0.360	0.95	0.342	4.567	22.41	3.691	16.857	27	0.32	66	4.41	0.25	17.52	694.16	693.96	0.296	4.240	699.30	0.21	692.73	692.52
30	68A	68	0.230	0.95	0.219	0.219	20.00	3.889	0.850	6	2.00	157	4.78	0.55	0.94	698.84	696.26	1.642	4.328	703.00	3.14	699.00	695.86
---	68	66	0.000	0.95	0.000	4.785	22.66	3.672	17.571	27	0.34	94	4.54	0.34	18.06	693.96	693.66	0.322	4.419	699.80	0.32	692.42	692.10
31	67B	67	0.210	0.95	0.200	0.200	20.00	3.889	0.776	6	2.50	77	5.34	0.24	1.05	698.53	697.48	1.369	3.951	703.00	1.93	699.00	697.08
32	67A	67	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	27	4.78	0.09	0.94	697.97	697.76	0.795	3.011	701.90	0.54	697.90	697.36
---	67	66	0.000	0.95	0.000	0.352	20.24	3.868	1.360	12	0.48	84	3.14	0.45	2.47	695.20	695.08	0.146	1.731	701.45	0.40	695.68	695.28
33	66A	66	0.490	0.35	0.172	0.172	20.00	3.889	0.667	12	0.44	72	3.01	0.40	2.36	694.51	694.48	0.035	0.849	698.00	0.32	694.00	693.68
34	66	64	0.360	0.95	0.342	5.650	23.00	3.646	20.599	27	0.46	109	5.28	0.34	21.01	693.66	693.18	0.442	5.181	699.30	0.50	692.00	691.50
35	65B	65	0.210	0.95	0.200	0.200	20.00	3.889	0.776	6	2.50	77	5.34	0.24	1.05	697.53	696.48	1.369	3.951	703.00	1.93	698.00	696.08
36	65A	65	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	27	4.78	0.09	0.94	697.97	697.76	0.795	3.011	701.90	0.54	697.90	697.36
---	65	64	0.000	0.95	0.000	0.352	20.24	3.868	1.360	12	0.48	84	3.14	0.45	2.47	696.20	696.08	0.146	1.731	701.50	0.40	695.68	695.28
---	64	63	0.000	0.95	0.000	6.002	23.35	3.620	21.725	27	0.52	61	5.62	0.18	22.33	693.18	692.88	0.492	5.464	699.75	0.32	691.40	691.08
37	63	62	0.330	0.95	0.314	6.315	23.53	3.606	22.774	27	0.60	50	6.03	0.14	23.99	691.30	691.03	0.541	5.728	699.30	0.30	690.88	690.58
38	62	61	0.490	0.66	0.323	6.639	23.66	3.596	23.872	27	0.68	41	6.42	0.11	25.54	691.03	690.79	0.594	6.004	696.00	0.28	690.48	690.20
39	61	60	0.130	0.95	0.124	9.007	24.96	3.503	31.549	30	0.64	269	6.68	0.67	32.81	690.79	689.20	0.592	6.427	696.00	1.72	690.10	688.38
40	60	56	0.300	0.65	0.195	9.202	25.63	3.456	31.805	30	0.64	211	6.68	0.53	32.81	689.20	687.93	0.601	6.479	695.00	1.35	688.28	686.93

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DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 40'
40 20 0 20 40 60

NFE JOB NO. M278-01
SHEET NO. SP 5.10

Drainage Area (Location)	From Manhole Number	To Manhole Number	Drainage Area (Acres)	Runoff Coefficient (C)	Equivalent Area (C * A)	Total Area (Sum C * A)	Time of Concentration (Minutes)	Rainfall Intensity (Inches/Hr.)	Actual Discharge (CFS)	Pipe Size (Inches)	Pipe Slope (% Slope)	Pipe Length (Feet)	Flow Full Velocity (Ft / Sec)	Time of Flow (Minutes)	Full Pipe Capacity (CFS)	H. G. Elev. Upper End (Feet)	H. G. Elev. Lower End (Feet)	H. G. Slope (% Slope)	Theoretical Velocity (Ft / Sec)	Ground Elevation (Upper)	Change in Elevation (Feet)	Invert Elev. Upper End (Feet)	Invert Elev. Lower End (Feet)
41	59A	59	0.120	0.95	0.114	0.114	20.00	3.889	0.443	12	0.44	94	3.01	0.52	2.36	692.91	692.90	0.015	0.564	697.00	0.41	693.00	692.59
42	59	58	0.500	0.93	0.465	0.579	20.52	3.844	2.226	15	0.34	156	3.07	0.85	3.77	692.90	692.71	0.119	1.814	697.00	0.53	692.49	691.96
43	58A	58	0.170	0.87	0.148	0.148	20.00	3.889	0.575	12	0.44	94	3.01	0.52	2.36	693.31	693.29	0.026	0.732	697.00	0.41	693.00	692.59
44	58	57	0.410	0.92	0.377	1.104	20.52	3.844	4.245	18	0.28	143	3.15	0.76	5.56	692.71	692.48	0.163	2.402	697.00	0.40	691.86	691.46
45	57	56	0.230	0.86	0.198	1.302	21.37	3.774	4.914	18	0.28	127	3.15	0.67	5.56	692.48	692.20	0.219	2.781	697.00	0.36	691.36	691.00
---	56	55	0.000	0.86	0.000	10.504	26.16	3.421	35.931	30	1.10	139	8.76	0.26	43.02	687.93	686.86	0.767	7.320	694.65	1.53	686.83	685.30
46	55	54	0.190	0.81	0.154	10.658	26.42	3.403	36.270	36	0.32	159	5.34	0.50	37.73	686.86	686.39	0.296	5.131	691.25	0.51	685.05	684.54
47	54B	54A	0.160	0.94	0.150	0.150	20.00	3.889	0.585	12	0.44	11	3.01	0.06	2.36	687.20	687.20	0.027	0.745	691.00	0.05	687.00	686.95
48	54A	54	0.120	0.94	0.113	0.263	20.06	3.884	1.022	12	0.44	128	3.01	0.71	2.36	687.20	687.09	0.082	1.301	691.00	0.56	686.85	686.29
49	54	53	0.580	0.94	0.545	11.466	26.92	3.371	38.648	42	0.18	105	4.44	0.39	42.69	686.39	686.24	0.148	4.017	691.10	0.19	684.34	684.15
50	53A	53	0.180	0.91	0.164	0.164	20.00	3.889	0.637	12	0.44	128	3.01	0.71	2.36	687.28	687.24	0.032	0.811	691.00	0.56	687.00	686.44
51	53	52	0.310	0.90	0.279	11.909	27.31	3.345	39.838	42	0.18	146	4.44	0.55	42.69	686.24	686.01	0.157	4.141	691.50	0.26	684.05	683.79
52	52A	52	0.270	0.91	0.246	0.246	20.00	3.889	0.956	12	0.44	128	3.01	0.71	2.36	687.33	687.24	0.072	1.217	691.00	0.56	687.00	686.44
53	52	51	0.460	0.95	0.437	12.592	27.86	3.310	41.685	42	0.20	134	4.68	0.48	44.99	686.01	685.78	0.172	4.333	691.00	0.27	683.69	683.42
54	51B	51A	0.070	0.88	0.062	0.062	20.00	3.889	0.240	12	0.44	39	3.01	0.22	2.36	687.05	687.05	0.005	0.305	691.00	0.17	687.00	686.83
55	51A	51	0.190	0.90	0.171	0.233	20.22	3.870	0.900	12	0.44	128	3.01	0.71	2.36	687.05	686.97	0.064	1.146	691.00	0.56	686.73	686.17
56	51	50	0.440	0.95	0.418	13.243	28.34	3.281	43.446	42	0.20	160	4.68	0.57	44.99	685.78	685.48	0.186	4.516	691.00	0.32	683.32	683.00
57	50A	50	0.260	0.89	0.231	0.231	20.00	3.889	0.900	12	0.44	128	3.01	0.71	2.36	687.32	687.24	0.064	1.146	691.00	0.56	687.00	686.44
58	50	49	0.440	0.95	0.418	13.892	28.91	3.246	45.094	42	0.24	175	5.12	0.57	49.29	685.48	685.13	0.201	4.687	691.00	0.42	682.90	682.48
59	49B	49A	0.140	0.92	0.129	0.129	20.00	3.889	0.501	12	0.44	42	3.01	0.23	2.36	686.62	686.61	0.020	0.638	690.50	0.18	686.50	686.32
60	49A	49	0.040	0.94	0.038	0.166	20.23	3.869	0.644	12	0.44	99	3.01	0.55	2.36	686.61	686.58	0.033	0.820	690.50	0.44	686.22	685.78
61	49	48	0.370	0.94	0.348	14.406	29.48	3.212	46.275	42	0.30	56	5.73	0.16	55.11	685.13	685.01	0.212	4.810	690.50	0.17	682.38	682.21
62	47	46	0.580	0.82	0.476	0.476	20.00	3.889	1.850	12	0.44	116	3.01	0.64	2.36	697.46	697.14	0.269	2.355	701.00	0.51	697.00	696.49
63	46	45	0.590	0.82	0.484	0.959	20.64	3.834	3.678	15	0.42	90	3.41	0.44	4.19	697.14	696.85	0.324	2.997	701.50	0.38	696.39	696.01
---	45	44	0.000	0.82	0.000	0.959	21.08	3.798	3.643	15	0.42	54	3.41	0.26	4.19	696.85	696.68	0.318	2.969	701.80	0.23	695.91	695.68
64	44	43	0.530	0.78	0.413	1.373	21.35	3.776	5.184	18	0.30	45	3.26	0.23	5.75	696.13	696.02	0.244	2.933	701.00	0.14	695.58	695.45
65	43A	43	0.550	0.44	0.242	0.242	20.00	3.889	0.941	12	3.00	50	7.86	0.11	6.17	697.33	697.30	0.070	1.198	702.20	1.50	698.00	696.50
66	43	42	0.530	0.70	0.371	1.986	21.58	3.757	7.461	21	0.30	70	3.61	0.32	8.68	696.02	695.86	0.222	3.102	700.60	0.21	695.35	695.14
67	42A	42	0.200	0.95	0.190	0.190	20.00	3.889	0.739	6	3.00	50	5.85	0.14	1.15	698.52	697.90	1.242	3.763	703.00	1.50	699.00	697.50
---	42	41	0.000	0.82	0.000	2.176	21.90	3.731	8.119	21	0.32	32	3.73	0.14	8.96	695.86	695.78	0.263	3.375	701.75	0.10	695.04	694.94
68	41	40	0.110	0.79	0.087	2.263	22.04	3.720	8.417	21	0.34	82	3.84	0.36	9.24	695.78	695.55	0.282	3.499	701.75	0.28	694.84	694.56
68	40B	40	0.310	0.95	0.295	0.295	20.00	3.889	1.145	8	1.50	78	5.01	0.26	1.75	698.37	697.87	0.643	3.281	703.00	1.17	698.50	697.33
70	40A	40	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	28	4.78	0.10	0.94	697.96	697.74	0.795	3.011	702.00	0.56	697.90	697.34
---	40	39	0.000	0.95	0.000	2.709	22.40	3.692	10.003	24	0.24	25	3.53	0.12	11.08	695.55	695.50	0.196	3.184	701.50	0.06	694.46	694.40
71	39	38	0.060	0.95	0.057	2.766	22.52	3.683	10.188	24	0.24	53	3.53	0.25	11.08	695.50	695.39	0.203	3.243	701.25	0.13	694.30	694.17
72	38B	38	0.340	0.95	0.323	0.323	20.00	3.889	1.256	8	1.50	78	5.01	0.26	1.75	698.47	697.87	0.774	3.598	703.00	1.17	698.50	697.33
73	38A	38	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	27	4.78	0.09	0.94	697.97	697.76	0.795	3.011	702.00	0.54	697.90	697.36
---	38	33	0.000	0.95	0.000	3.241	22.77	3.664	11.874	24	0.32	79	4.07	0.32	12.80	695.39	695.18	0.276	3.780	701.80	0.25	694.07	693.82
74	37	36	0.100	0.56	0.056	0.056	20.00	3.889	0.218	12	0.44	29	3.01	0.16	2.36	699.17	699.17	0.004	0.277	702.50	0.13	698.50	698.37
75	36	35	0.120	0.55	0.066	0.122	20.16	3.875	0.473	12	2.29	108	6.86	0.26	5.39	696.62	696.60	0.018	0.602	702.50	2.47	698.27	695.80
76	35	34	0.320	0.66	0.211	0.333	20.42	3.853	1.284	12	0.80	50	4.06	0.21	3.19	695.85	695.79	0.130	1.634	699.80	0.40	695.70	695.30
77	34	33	0.370	0.70	0.259	0.592	20.63	3.835	2.271	12	0.64	91	3.63	0.42	2.85	695.79	695.42	0.406	2.892	699.30	0.58	695.20	694.62
---	33	31	0.000	0.70	0.000	3.833	23.09	3.639	13.950	27	0.30	85	4.27	0.33	16.96	695.18	695.00	0.203	3.508	700.00	0.26	693.72	693.47
78	32B	32A	0.340	0.95	0.323	0.323	20.00	3.889	1.256	8	1.50	77	5.01	0.26	1.75	698.49	697.89	0.774	3.598	703.00	1.16	698.50	697.35
79	32A	32	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	36	4.78	0.13	0.94	697.87	697.58	0.795	3.011	701.90	0.72	697.90	697.18
---	32	31	0.000	0.95	0.000	0.475	20.26	3.867	1.837	12	0.50	88	3.21	0.46	2.52	695.87	695.64	0.266	2.339	701.45	0.44	695.28	694.84

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BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

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Seefried Industrial Properties
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Chicago, IL 60631

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Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Calculations

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 40'

NFE JOB NO. M278-01
SHEET NO. SP 5.11

Drainage Area (Location)	From Manhole Number	To Manhole Number	Drainage Area (Acres)	Runoff Coefficient (C)	Equivalent Area (C * A)	Total Area (Sum C * A)	Time of Concentration (Minutes)	Rainfall Intensity (Inches/Hr.)	Actual Discharge (CFS)	Pipe Size (Inches)	Pipe Slope (% Slope)	Pipe Length (Feet)	Flow Full Velocity (Ft / Sec)	Time of Flow (Minutes)	Full Pipe Capacity (CFS)	H. G. Elev. Upper End (Feet)	H. G. Elev. Lower End (Feet)	H. G. Slope (% Slope)	Theoretical Velocity (Ft / Sec)	Ground Elevation (Upper)	Change in Elevation (Feet)	Invert Elev. Upper End (Feet)	Invert Elev. Lower End (Feet)
81	30B	30	0.340	0.95	0.323	0.323	20.00	3.889	1.256	8	1.50	77	5.01	0.26	1.75	698.49	697.89	0.774	3.598	703.00	1.16	698.50	697.35
82	30A	30	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	26	4.78	0.09	0.94	697.99	697.78	0.795	3.011	701.90	0.52	697.90	697.38
---	30	29	0.000	0.95	0.000	0.475	20.26	3.867	1.837	12	0.50	85	3.21	0.44	2.52	696.09	695.86	0.266	2.339	701.50	0.43	695.48	695.06
83	29A	29	0.480	0.61	0.293	0.293	20.00	3.889	1.139	12	0.44	50	3.01	0.28	2.36	693.08	693.03	0.102	1.450	696.55	0.22	692.55	692.33
84	29	28	0.360	0.95	0.342	5.770	23.96	3.574	20.621	27	0.60	63	6.03	0.17	23.99	693.03	692.75	0.443	5.186	699.30	0.38	691.33	690.95
85	28A	28	0.340	0.95	0.323	0.323	20.00	3.889	1.256	8	1.80	157	5.49	0.48	1.92	697.68	696.47	0.774	3.598	703.00	2.83	698.50	695.67
---	28	22	0.000	0.95	0.000	6.093	24.14	3.561	21.699	27	1.50	136	9.54	0.24	37.93	690.38	689.71	0.491	5.457	699.75	2.04	689.95	687.91
86	27B	27	0.340	0.95	0.323	0.323	20.00	3.889	1.256	8	1.50	77	5.01	0.26	1.75	698.75	698.15	0.774	3.598	703.00	1.16	698.50	697.35
87	27A	27	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	27	4.78	0.09	0.94	697.97	697.76	0.795	3.011	701.90	0.54	697.90	697.36
---	27	26	0.000	0.95	0.000	0.475	20.26	3.867	1.837	12	0.50	85	3.21	0.44	2.52	695.97	695.74	0.266	2.339	701.50	0.43	695.36	694.94
88	26	25	0.370	0.95	0.352	0.827	20.70	3.830	3.165	12	4.58	50	9.71	0.09	7.62	691.74	691.35	0.789	4.030	699.30	2.29	692.84	690.55
89	25	24	0.290	0.73	0.212	1.038	20.78	3.822	3.968	12	3.04	74	7.91	0.16	6.21	689.72	688.80	1.241	5.053	694.55	2.25	690.25	688.00
90	24	23	0.430	0.93	0.400	1.438	20.94	3.809	5.478	18	0.32	84	3.36	0.42	5.94	688.03	687.80	0.272	3.100	692.00	0.27	687.45	687.18
91	23	22	0.310	0.71	0.220	1.658	21.36	3.775	6.260	21	0.24	15	3.23	0.08	7.76	687.80	687.78	0.156	2.603	693.25	0.04	687.08	687.04
---	22	21	0.000	0.71	0.000	7.751	24.38	3.544	27.471	36	0.22	129	4.43	0.49	31.28	687.78	687.56	0.170	3.886	693.65	0.28	686.44	686.16
92	21B	21A	0.490	0.95	0.466	0.466	20.00	3.889	1.810	12	0.44	84	3.01	0.47	2.36	688.53	688.31	0.258	2.305	692.00	0.37	688.00	687.63
93	21A	21	0.400	0.72	0.288	0.754	20.47	3.849	2.900	15	0.34	15	3.07	0.08	3.77	688.31	688.28	0.202	2.363	692.75	0.05	687.53	687.48
---	21	20	0.000	0.72	0.000	8.504	24.86	3.510	29.848	36	0.24	135	4.62	0.49	32.68	687.56	687.29	0.200	4.223	693.25	0.32	686.06	685.74
94	20B	20A	0.480	0.95	0.456	0.456	20.00	3.889	1.773	12	0.44	84	3.01	0.47	2.36	688.72	688.51	0.248	2.258	692.00	0.37	688.00	687.63
95	20A	20	0.390	0.72	0.281	0.737	20.47	3.849	2.836	15	0.34	15	3.07	0.08	3.77	688.51	688.48	0.193	2.311	692.75	0.05	687.53	687.48
---	20	19	0.000	0.72	0.000	9.241	25.35	3.476	32.121	36	0.30	176	5.17	0.57	36.53	687.29	686.88	0.232	4.544	693.05	0.53	685.64	685.11
96	19A	19	0.480	0.95	0.456	0.456	20.00	3.889	1.773	12	0.44	100	3.01	0.55	2.36	688.61	688.36	0.248	2.258	692.00	0.44	688.00	687.56
97	19	18	0.390	0.72	0.281	9.978	25.92	3.437	34.295	36	0.40	167	5.97	0.47	42.18	686.88	686.44	0.264	4.852	692.00	0.67	684.91	684.24
98	18A	18	0.390	0.95	0.371	0.371	20.00	3.889	1.441	12	0.44	100	3.01	0.55	2.36	687.52	687.36	0.164	1.835	691.00	0.44	687.00	686.56
99	18	17	0.260	0.75	0.195	10.544	26.38	3.406	35.910	36	0.50	48	6.67	0.12	47.16	686.44	686.30	0.290	5.080	691.50	0.24	684.14	683.90
100	16B	16	0.300	0.95	0.285	0.285	20.00	3.889	1.108	8	1.50	78	5.01	0.26	1.75	698.60	698.13	0.602	3.175	703.00	1.17	698.50	697.33
101	16A	16	0.160	0.95	0.152	0.152	20.00	3.889	0.591	6	2.00	27	4.78	0.09	0.94	698.37	698.16	0.795	3.011	701.90	0.54	697.90	697.36
---	16	15	0.000	0.95	0.000	0.437	20.26	3.867	1.690	12	0.50	80	3.21	0.42	2.52	695.57	695.39	0.225	2.151	701.50	0.40	695.26	694.86
---	15	14	0.000	0.95	0.000	0.437	20.68	3.831	1.674	12	0.50	61	3.21	0.32	2.52	695.39	695.26	0.221	2.132	699.75	0.31	694.76	694.46
102	14	13	0.330	0.95	0.314	0.751	20.99	3.805	2.856	12	4.50	50	9.62	0.09	7.56	691.63	691.31	0.642	3.636	699.30	2.25	692.76	690.51
103	13	12	0.140	0.71	0.099	0.850	21.08	3.798	3.228	12	3.00	75	7.86	0.16	6.17	689.42	688.80	0.821	4.110	694.55	2.25	690.25	688.00
104	12	8	0.420	0.90	0.378	1.228	21.24	3.785	4.647	18	0.30	140	3.26	0.72	5.75	687.97	687.69	0.196	2.630	692.00	0.42	687.40	686.98
105	11	10	0.310	0.55	0.171	0.171	20.00	3.889	0.663	12	0.73	103	3.88	0.44	3.04	689.34	689.30	0.035	0.844	693.25	0.75	689.25	688.50
106	10A	10	0.560	0.68	0.381	0.381	20.00	3.889	1.481	12	0.44	44	3.01	0.24	2.36	688.69	688.61	0.173	1.886	692.00	0.19	688.00	687.81
107	10	9	0.280	0.67	0.188	0.739	20.44	3.851	2.845	15	0.34	77	3.07	0.42	3.77	687.96	687.81	0.194	2.319	692.50	0.26	687.71	687.45
108	9	8	0.230	0.87	0.200	0.939	20.86	3.816	3.583	18	0.30	105	3.26	0.54	5.75	687.81	687.69	0.116	2.028	692.10	0.32	687.35	687.04
109	8	7	0.390	0.93	0.363	2.530	21.95	3.727	9.428	24	0.24	146	3.53	0.69	11.08	687.69	687.44	0.174	3.001	692.00	0.35	686.64	686.29
110	7B	7	0.480	0.93	0.446	0.446	20.00	3.889	1.736	12	0.44	140	3.01	0.78	2.36	688.51	688.18	0.237	2.210	692.00	0.62	688.00	687.38
111	7A	7	0.350	0.88	0.308	0.308	20.00	3.889	1.198	12	0.44	105	3.01	0.58	2.36	688.46	688.34	0.113	1.525	692.00	0.46	688.00	687.54
112	7	6	0.440	0.95	0.418	3.702	22.64	3.673	13.598	27	0.24	138	3.82	0.60	15.17	687.44	687.17	0.193	3.420	692.00	0.33	686.19	685.86
113	6B	6	0.470	0.93	0.437	0.437	20.00	3.889	1.700	12	0.44	134	3.01	0.74	2.36	688.52	688.21	0.228	2.164	692.00	0.59	688.00	687.41
114	6A	6	0.350	0.89	0.312	0.312	20.00	3.889	1.211	12	0.44	102	3.01	0.56	2.36	688.47	688.35	0.116	1.542	692.00	0.45	688.00	687.55
115	6	5	0.430	0.95	0.409	4.859	23.25	3.627	17.625	27	0.40	156	4.93	0.53	19.59	687.17	686.67	0.324	4.433	692.00	0.62	685.76	685.14
116	5B	5	0.470	0.92	0.432	0.432	20.00	3.889	1.682	12	0.44	140	3.01	0.78	2.36	688.49	688.18	0.223	2.141	692.00	0.62	688.00	687.38
117	5A	5	0.350	0.86	0.301	0.301	20.00	3.889	1.171	12	0.44	105	3.01	0.58	2.36	688.45	688.34	0.108	1.490	692.00	0.46	688.00	687.54
118	5	4	0.430	0.95	0.409	6.001	23.77	3.588	21.531	30	0.34	175	4.87	0.60	23.92	686.67	686.19	0.276	4.386	692.00	0.60	685.04	684.45
119	4B	4	0.380	0.93	0.353	0.353	20.00	3.889	1.374	12	0.44	140	3.01	0.78	2.36	687.39	687.18	0.149	1.750	691.00	0.62	687.00	686.38
120	4A	4	0.280	0.90	0.252	0.252	20.00	3.889	0.980	12	0.44	105	3.01	0.58	2.36	687.43	687.35	0.076	1.248	691.00	0.46	687.00	686.54
121	4	3	0.350	0.95	0.333	6.939	24.37	3.544	24.594	30	0.72	46	7.09	0.11	34.80	686.19	686.02	0.360	5.010	691.00	0.33	684.35	684.02

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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Calculations

Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
J. Lawrey

DESIGNED BY:
B. Brickel

APPROVED BY:
B. Brickel

DATE:
September 24, 2021

SCALE: 1" = 40'

40 20 0 20 40 60

NFE JOB NO. **M278-01**

SHEET NO. **SP 5.12**

Weighted Run-off Coefficient Calculation - 1

Site Area:	70,020.51	S.F.	or	1.607	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	70,020.51	S.F.	or	1.607	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	70,020.51	S.F.	or	1.607	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.350

Weighted Run-off Coefficient Calculation - 2

Site Area:	10,816.10	S.F.	or	0.248	Acres
Surface No. 1 - Pavement:	6,442.14	S.F.	or	0.148	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	4,373.96	S.F.	or	0.100	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	10,816.10	S.F.	or	0.248	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.707

Weighted Run-off Coefficient Calculation - 3

Site Area:	10,539.81	S.F.	or	0.242	Acres
Surface No. 1 - Pavement:	7,278.93	S.F.	or	0.167	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	3,260.88	S.F.	or	0.075	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	10,539.81	S.F.	or	0.242	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.764

Weighted Run-off Coefficient Calculation - 4

Site Area:	48,473.02	S.F.	or	1.113	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	48,473.02	S.F.	or	1.113	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	48,473.02	S.F.	or	1.113	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.350

Weighted Run-off Coefficient Calculation - 5

Site Area:	4,249.53	S.F.	or	0.098	Acres
Surface No. 1 - Pavement:	3,114.57	S.F.	or	0.072	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,134.96	S.F.	or	0.026	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	4,249.53	S.F.	or	0.098	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.790

Weighted Run-off Coefficient Calculation - 6

Site Area:	3,994.01	S.F.	or	0.092	Acres
Surface No. 1 - Pavement:	3,829.38	S.F.	or	0.088	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	164.63	S.F.	or	0.004	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	3,994.01	S.F.	or	0.092	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.925

Weighted Run-off Coefficient Calculation - 7

Site Area:	35,432.14	S.F.	or	0.813	Acres
Surface No. 1 - Pavement:	6,921.60	S.F.	or	0.159	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	28,510.54	S.F.	or	0.655	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	35,432.14	S.F.	or	0.813	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.467

Weighted Run-off Coefficient Calculation - 8

Site Area:	6,910.93	S.F.	or	0.159	Acres
Surface No. 1 - Pavement:	6,910.93	S.F.	or	0.159	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	6,910.93	S.F.	or	0.159	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 9

Site Area:	6,450.61	S.F.	or	0.148	Acres
Surface No. 1 - Pavement:	4,899.27	S.F.	or	0.112	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,551.34	S.F.	or	0.036	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	6,450.61	S.F.	or	0.148	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.806

Weighted Run-off Coefficient Calculation - 10

Site Area:	5,187.98	S.F.	or	0.119	Acres
Surface No. 1 - Pavement:	5,187.98	S.F.	or	0.119	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	5,187.98	S.F.	or	0.119	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 11

Site Area:	39,253.96	S.F.	or	0.901	Acres
Surface No. 1 - Pavement:	28,059.47	S.F.	or	0.644	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	11,194.49	S.F.	or	0.257	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	39,253.96	S.F.	or	0.901	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.779

Weighted Run-off Coefficient Calculation - 12

Site Area:	21,347.10	S.F.	or	0.490	Acres
Surface No. 1 - Pavement:	16,398.43	S.F.	or	0.376	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	4,948.67	S.F.	or	0.114	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	21,347.10	S.F.	or	0.490	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.811

Weighted Run-off Coefficient Calculation - 13

Site Area:	14,226.79	S.F.	or	0.327	Acres
Surface No. 1 - Pavement:	14,226.79	S.F.	or	0.327	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	14,226.79	S.F.	or	0.327	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 14

Site Area:	5,943.08	S.F.	or	0.136	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	5,943.08	S.F.	or	0.136	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	5,943.08	S.F.	or	0.136	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 15

Site Area:	9,316.22	S.F.	or	0.214	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	9,316.22	S.F.	or	0.214	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	9,316.22	S.F.	or	0.214	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 16

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 17

Site Area:	10,132.93	S.F.	or	0.233	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	10,132.93	S.F.	or	0.233	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	10,132.93	S.F.	or	0.233	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 18

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 19

Site Area:	3,002.35	S.F.	or	0.069	Acres
Surface No. 1 - Pavement:	3,002.35	S.F.	or	0.069	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	3,002.35	S.F.	or	0.069	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 20

Site Area:	14,649.95	S.F.	or	0.336	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	14,649.95	S.F.	or	0.336	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	14,649.95	S.F.	or	0.336	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.350

Weighted Run-off Coefficient Calculation - 21

Site Area:	17,744.76	S.F.	or	0.407	Acres
Surface No. 1 - Pavement:	12,680.51	S.F.	or	0.291	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	5,064.25	S.F.	or	0.116	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	17,744.76	S.F.	or	0.407	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.779

Weighted Run-off Coefficient Calculation - 22

Site Area:	10,132.93	S.F.	or	0.233	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	10,132.93	S.F.	or	0.233	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	10,132.93	S.F.	or	0.233	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 23

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 24

Site Area:	22,603.21	S.F.	or	0.519	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	22,603.21	S.F.	or	0.519	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	22,603.21	S.F.	or	0.519	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.350

Weighted Run-off Coefficient Calculation - 25

Site Area:	15,834.12	S.F.	or	0.364	Acres
Surface No. 1 - Pavement:	15,834.12	S.F.	or	0.364	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,834.12	S.F.	or	0.364	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 26

Site Area:	10,132.93	S.F.	or	0.233	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	10,132.93	S.F.	or	0.233	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	10,132.93	S.F.	or	0.233	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 27

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 28

Site Area:	22,604.00	S.F.	or	0.519	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	22,604.00	S.F.	or	0.519	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	22,604.00	S.F.	or	0.519	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.350

Weighted Run-off Coefficient Calculation - 30

Site Area:	15,865.07	S.F.	or	0.364	Acres
Surface No. 1 - Pavement:	15,865.07	S.F.	or	0.364	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,865.07	S.F.	or	0.364	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 30

Site Area:	10,122.83	S.F.	or	0.232	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	10,122.83	S.F.	or	0.232	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	10,122.83	S.F.	or	0.232	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

NF ENGINEERS

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LAND SURVEYORS
LAND PLANNERS

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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Calculations

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 40'

NFE JOB NO. M278-01
SHEET NO. SP 5.13

Weighted Run-off Coefficient Calculation - 31

Site Area:	9,326.24	S.F.	or	0.214 Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000 Acres
Surface No. 2 - Building:	9,326.24	S.F.	or	0.214 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	9,326.24	S.F.	or	0.214 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 32

Site Area:	7,105.36	S.F.	or	0.163 Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000 Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	7,105.36	S.F.	or	0.163 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 33

Site Area:	21,231.22	S.F.	or	0.487 Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	21,231.22	S.F.	or	0.487 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	21,231.22	S.F.	or	0.487 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.350

Weighted Run-off Coefficient Calculation - 34

Site Area:	15,832.14	S.F.	or	0.363 Acres
Surface No. 1 - Pavement:	15,832.14	S.F.	or	0.363 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	15,832.14	S.F.	or	0.363 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 35

Site Area:	8,993.58	S.F.	or	0.206 Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000 Acres
Surface No. 2 - Building:	8,993.58	S.F.	or	0.206 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	8,993.58	S.F.	or	0.206 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 36

Site Area:	7,147.60	S.F.	or	0.164 Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000 Acres
Surface No. 2 - Building:	7,147.60	S.F.	or	0.164 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	7,147.60	S.F.	or	0.164 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 37

Site Area:	14,391.55	S.F.	or	0.330 Acres
Surface No. 1 - Pavement:	14,391.55	S.F.	or	0.330 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	14,391.55	S.F.	or	0.330 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 38

Site Area:	21,533.63	S.F.	or	0.494 Acres
Surface No. 1 - Pavement:	11,100.43	S.F.	or	0.255 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	10,433.20	S.F.	or	0.240 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	21,533.63	S.F.	or	0.494 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.659

Weighted Run-off Coefficient Calculation - 39

Site Area:	5,577.80	S.F.	or	0.128 Acres
Surface No. 1 - Pavement:	5,577.80	S.F.	or	0.128 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	5,577.80	S.F.	or	0.128 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 40

Site Area:	12,983.45	S.F.	or	0.298 Acres
Surface No. 1 - Pavement:	6,376.43	S.F.	or	0.146 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	6,607.02	S.F.	or	0.152 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	12,983.45	S.F.	or	0.298 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.645

Weighted Run-off Coefficient Calculation - 41

Site Area:	5,062.91	S.F.	or	0.116 Acres
Surface No. 1 - Pavement:	5,062.91	S.F.	or	0.116 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	5,062.91	S.F.	or	0.116 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 42

Site Area:	21,818.31	S.F.	or	0.501 Acres
Surface No. 1 - Pavement:	21,108.89	S.F.	or	0.485 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	709.42	S.F.	or	0.016 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	21,818.31	S.F.	or	0.501 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.930

Weighted Run-off Coefficient Calculation - 43

Site Area:	7,280.98	S.F.	or	0.167 Acres
Surface No. 1 - Pavement:	6,287.87	S.F.	or	0.144 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	993.11	S.F.	or	0.023 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	7,280.98	S.F.	or	0.167 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.868

Weighted Run-off Coefficient Calculation - 44

Site Area:	17,845.49	S.F.	or	0.410 Acres
Surface No. 1 - Pavement:	16,770.16	S.F.	or	0.385 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	1,075.33	S.F.	or	0.025 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	17,845.49	S.F.	or	0.410 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.914

Weighted Run-off Coefficient Calculation - 45

Site Area:	9,945.06	S.F.	or	0.228 Acres
Surface No. 1 - Pavement:	8,340.18	S.F.	or	0.191 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	1,604.88	S.F.	or	0.037 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	9,945.06	S.F.	or	0.228 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.853

Weighted Run-off Coefficient Calculation - 46

Site Area:	8,446.41	S.F.	or	0.194 Acres
Surface No. 1 - Pavement:	6,457.07	S.F.	or	0.148 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	1,989.34	S.F.	or	0.046 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	8,446.41	S.F.	or	0.194 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.809

Weighted Run-off Coefficient Calculation - 47

Site Area:	7,117.05	S.F.	or	0.163 Acres
Surface No. 1 - Pavement:	6,999.73	S.F.	or	0.161 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	117.32	S.F.	or	0.003 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	7,117.05	S.F.	or	0.163 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.940

Weighted Run-off Coefficient Calculation - 48

Site Area:	5,089.38	S.F.	or	0.117 Acres
Surface No. 1 - Pavement:	4,972.06	S.F.	or	0.114 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	117.32	S.F.	or	0.003 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	5,089.38	S.F.	or	0.117 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.936

Weighted Run-off Coefficient Calculation - 49

Site Area:	25,193.81	S.F.	or	0.578 Acres
Surface No. 1 - Pavement:	25,193.81	S.F.	or	0.578 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	25,193.81	S.F.	or	0.578 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 50

Site Area:	7,646.78	S.F.	or	0.176 Acres
Surface No. 1 - Pavement:	7,051.11	S.F.	or	0.162 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	595.67	S.F.	or	0.014 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	7,646.78	S.F.	or	0.176 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.903

Weighted Run-off Coefficient Calculation - 51

Site Area:	13,406.53	S.F.	or	0.308 Acres
Surface No. 1 - Pavement:	12,215.19	S.F.	or	0.280 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	1,191.34	S.F.	or	0.027 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	13,406.53	S.F.	or	0.308 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.897

Weighted Run-off Coefficient Calculation - 52

Site Area:	11,696.50	S.F.	or	0.269 Acres
Surface No. 1 - Pavement:	10,781.00	S.F.	or	0.247 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	915.50	S.F.	or	0.021 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	11,696.50	S.F.	or	0.269 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.903

Weighted Run-off Coefficient Calculation - 53

Site Area:	19,918.47	S.F.	or	0.457 Acres
Surface No. 1 - Pavement:	19,918.47	S.F.	or	0.457 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	19,918.47	S.F.	or	0.457 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 54

Site Area:	3,179.25	S.F.	or	0.073 Acres
Surface No. 1 - Pavement:	2,772.85	S.F.	or	0.064 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	406.40	S.F.	or	0.009 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	3,179.25	S.F.	or	0.073 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.873

Weighted Run-off Coefficient Calculation - 55

Site Area:	8,207.65	S.F.	or	0.188 Acres
Surface No. 1 - Pavement:	7,481.41	S.F.	or	0.172 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	726.24	S.F.	or	0.017 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	8,207.65	S.F.	or	0.188 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.897

Weighted Run-off Coefficient Calculation - 56

Site Area:	19,362.69	S.F.	or	0.445 Acres
Surface No. 1 - Pavement:	19,362.69	S.F.	or	0.445 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	19,362.69	S.F.	or	0.445 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 57

Site Area:	11,456.60	S.F.	or	0.263 Acres
Surface No. 1 - Pavement:	10,265.26	S.F.	or	0.236 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	1,191.34	S.F.	or	0.027 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	11,456.60	S.F.	or	0.263 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.888

Weighted Run-off Coefficient Calculation - 58

Site Area:	19,371.76	S.F.	or	0.445 Acres
Surface No. 1 - Pavement:	19,371.76	S.F.	or	0.445 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	19,371.76	S.F.	or	0.445 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 59

Site Area:	6,012.44	S.F.	or	0.138 Acres
Surface No. 1 - Pavement:	5,714.61	S.F.	or	0.131 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	297.83	S.F.	or	0.007 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	6,012.44	S.F.	or	0.138 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.920

Weighted Run-off Coefficient Calculation - 60

Site Area:	1,812.77	S.F.	or	0.042 Acres
Surface No. 1 - Pavement:	1,767.94	S.F.	or	0.041 Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000 Acres
Surface No. 3 - Landscape:	44.83	S.F.	or	0.001 Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000 Acres
				0
Sum of Individual Areas:	1,812.77	S.F.	or	0.042 Acres
Surface No. 1 - Coefficient:	0.95			
Surface No. 2 - Coefficient:	0.95			
Surface No. 3 - Coefficient:	0.35			
Surface No. 4 - Coefficient:	1.00			

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.935

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Calculations

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 40'

NFE JOB NO. M278-01
SHEET NO. SP 5.14

Weighted Run-off Coefficient Calculation - 61

Site Area:	15,963.12	S.F.	or	0.366	Acres
Surface No. 1 - Pavement:	15,710.12	S.F.	or	0.361	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	253.00	S.F.	or	0.006	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,963.12	S.F.	or	0.366	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.940

Weighted Run-off Coefficient Calculation - 62

Site Area:	25,279.50	S.F.	or	0.580	Acres
Surface No. 1 - Pavement:	19,670.62	S.F.	or	0.452	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	5,608.88	S.F.	or	0.129	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	25,279.50	S.F.	or	0.580	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.817

Weighted Run-off Coefficient Calculation - 63

Site Area:	25,776.80	S.F.	or	0.592	Acres
Surface No. 1 - Pavement:	20,087.16	S.F.	or	0.461	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	5,689.64	S.F.	or	0.131	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	25,776.80	S.F.	or	0.592	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.818

Weighted Run-off Coefficient Calculation - 64

Site Area:	23,025.85	S.F.	or	0.529	Acres
Surface No. 1 - Pavement:	16,378.82	S.F.	or	0.376	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	6,647.03	S.F.	or	0.153	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	23,025.85	S.F.	or	0.529	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.777

Weighted Run-off Coefficient Calculation - 65

Site Area:	24,162.27	S.F.	or	0.555	Acres
Surface No. 1 - Pavement:	3,341.31	S.F.	or	0.077	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	20,820.96	S.F.	or	0.478	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	24,162.27	S.F.	or	0.555	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.433

Weighted Run-off Coefficient Calculation - 66

Site Area:	23,164.31	S.F.	or	0.532	Acres
Surface No. 1 - Pavement:	13,247.65	S.F.	or	0.304	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	9,916.66	S.F.	or	0.228	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	23,164.31	S.F.	or	0.532	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.693

Weighted Run-off Coefficient Calculation - 67

Site Area:	8,799.32	S.F.	or	0.202	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	8,799.32	S.F.	or	0.202	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	8,799.32	S.F.	or	0.202	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 68

Site Area:	4,673.94	S.F.	or	0.107	Acres
Surface No. 1 - Pavement:	3,384.52	S.F.	or	0.078	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,289.42	S.F.	or	0.030	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	4,673.94	S.F.	or	0.107	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.784

Weighted Run-off Coefficient Calculation - 69

Site Area:	13,707.50	S.F.	or	0.315	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	13,707.50	S.F.	or	0.315	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	13,707.50	S.F.	or	0.315	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 70

Site Area:	7,105.37	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	6,872.40	S.F.	or	0.158	Acres
Surface No. 3 - Landscape:	232.97	S.F.	or	0.005	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.37	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.930

Weighted Run-off Coefficient Calculation - 71

Site Area:	2,410.23	S.F.	or	0.055	Acres
Surface No. 1 - Pavement:	2,410.23	S.F.	or	0.055	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	2,410.23	S.F.	or	0.055	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 72

Site Area:	14,909.17	S.F.	or	0.342	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	14,909.17	S.F.	or	0.342	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	14,909.17	S.F.	or	0.342	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 73

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 74

Site Area:	4,489.97	S.F.	or	0.103	Acres
Surface No. 1 - Pavement:	1,567.88	S.F.	or	0.036	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	2,922.09	S.F.	or	0.067	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	4,489.97	S.F.	or	0.103	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.560

Weighted Run-off Coefficient Calculation - 75

Site Area:	5,410.07	S.F.	or	0.124	Acres
Surface No. 1 - Pavement:	1,802.77	S.F.	or	0.041	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	3,607.30	S.F.	or	0.083	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	5,410.07	S.F.	or	0.124	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.550

Weighted Run-off Coefficient Calculation - 76

Site Area:	13,868.84	S.F.	or	0.318	Acres
Surface No. 1 - Pavement:	7,061.04	S.F.	or	0.162	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	6,807.80	S.F.	or	0.156	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	13,868.84	S.F.	or	0.318	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.655

Weighted Run-off Coefficient Calculation - 77

Site Area:	15,959.84	S.F.	or	0.366	Acres
Surface No. 1 - Pavement:	9,081.26	S.F.	or	0.208	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	6,878.58	S.F.	or	0.158	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,959.84	S.F.	or	0.366	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.691

Weighted Run-off Coefficient Calculation - 78

Site Area:	14,909.17	S.F.	or	0.342	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	14,909.17	S.F.	or	0.342	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	14,909.17	S.F.	or	0.342	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 79

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 80

Site Area:	15,949.97	S.F.	or	0.366	Acres
Surface No. 1 - Pavement:	15,949.97	S.F.	or	0.366	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,949.97	S.F.	or	0.366	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 81

Site Area:	14,909.17	S.F.	or	0.342	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	14,909.17	S.F.	or	0.342	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	14,909.17	S.F.	or	0.342	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 82

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 83

Site Area:	20,930.30	S.F.	or	0.480	Acres
Surface No. 1 - Pavement:	8,956.68	S.F.	or	0.206	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	11,973.62	S.F.	or	0.275	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	20,930.30	S.F.	or	0.480	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.607

Weighted Run-off Coefficient Calculation - 84

Site Area:	15,823.09	S.F.	or	0.363	Acres
Surface No. 1 - Pavement:	15,823.09	S.F.	or	0.363	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,823.09	S.F.	or	0.363	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 85

Site Area:	14,894.31	S.F.	or	0.342	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	14,894.31	S.F.	or	0.342	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	14,894.31	S.F.	or	0.342	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 86

Site Area:	13,722.24	S.F.	or	0.315	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	13,722.24	S.F.	or	0.315	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	13,722.24	S.F.	or	0.315	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 87

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 88

Site Area:	16,031.27	S.F.	or	0.368	Acres
Surface No. 1 - Pavement:	16,031.27	S.F.	or	0.368	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	16,031.27	S.F.	or	0.368	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 89

Site Area:	12,742.32	S.F.	or	0.293	Acres
Surface No. 1 - Pavement:	7,883.76	S.F.	or	0.181	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	4,858.56	S.F.	or	0.112	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	12,742.32	S.F.	or	0.293	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.721

Weighted Run-off Coefficient Calculation - 90

Site Area:	18,888.88	S.F.	or	0.434	Acres
Surface No. 1 - Pavement:	18,094.92	S.F.	or	0.415	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	793.96	S.F.	or	0.018	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	18,888.88	S.F.	or	0.434	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

C (Average) = (Area 1 * C1 + Area 2 * C2 + Area 3 * C3 + Area 4 * C4) / (Area 1 + Area 2 + Area 3 + Area 4)

C (Average) = 0.925

NF ENGINEERS

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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Calculations

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 40'

NFE JOB NO. M278-01
SHEET NO. SP 5.15

Weighted Run-off Coefficient Calculation - 91

Site Area:	13,672.60	S.F.	or	0.314	Acres
Surface No. 1 - Pavement:	8,141.30	S.F.	or	0.187	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	5,531.30	S.F.	or	0.127	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	13,672.60	S.F.	or	0.314	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.707

Weighted Run-off Coefficient Calculation - 92

Site Area:	21,544.85	S.F.	or	0.495	Acres
Surface No. 1 - Pavement:	21,544.85	S.F.	or	0.495	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	21,544.85	S.F.	or	0.495	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 93

Site Area:	17,236.46	S.F.	or	0.396	Acres
Surface No. 1 - Pavement:	10,722.90	S.F.	or	0.246	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	6,513.56	S.F.	or	0.150	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	17,236.46	S.F.	or	0.396	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.723

Weighted Run-off Coefficient Calculation - 94

Site Area:	21,114.49	S.F.	or	0.485	Acres
Surface No. 1 - Pavement:	21,114.49	S.F.	or	0.485	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	21,114.49	S.F.	or	0.485	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 95

Site Area:	16,819.24	S.F.	or	0.386	Acres
Surface No. 1 - Pavement:	10,218.45	S.F.	or	0.235	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	6,600.79	S.F.	or	0.152	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	16,819.24	S.F.	or	0.386	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.715

Weighted Run-off Coefficient Calculation - 96

Site Area:	20,842.00	S.F.	or	0.478	Acres
Surface No. 1 - Pavement:	20,842.00	S.F.	or	0.478	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	20,842.00	S.F.	or	0.478	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 97

Site Area:	16,907.75	S.F.	or	0.388	Acres
Surface No. 1 - Pavement:	10,186.77	S.F.	or	0.234	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	6,720.98	S.F.	or	0.154	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	16,907.75	S.F.	or	0.388	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.711

Weighted Run-off Coefficient Calculation - 98

Site Area:	17,067.26	S.F.	or	0.392	Acres
Surface No. 1 - Pavement:	17,067.26	S.F.	or	0.392	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	17,067.26	S.F.	or	0.392	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 99

Site Area:	11,294.04	S.F.	or	0.259	Acres
Surface No. 1 - Pavement:	7,449.78	S.F.	or	0.171	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	3,844.26	S.F.	or	0.088	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	11,294.04	S.F.	or	0.259	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.746

Weighted Run-off Coefficient Calculation - 100

Site Area:	13,232.78	S.F.	or	0.304	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	13,232.78	S.F.	or	0.304	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	13,232.78	S.F.	or	0.304	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 101

Site Area:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	7,105.36	S.F.	or	0.163	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	7,105.36	S.F.	or	0.163	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 102

Site Area:	14,279.08	S.F.	or	0.328	Acres
Surface No. 1 - Pavement:	14,279.08	S.F.	or	0.328	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	14,279.08	S.F.	or	0.328	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 103

Site Area:	6,293.70	S.F.	or	0.144	Acres
Surface No. 1 - Pavement:	3,771.38	S.F.	or	0.087	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	2,522.32	S.F.	or	0.058	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	6,293.70	S.F.	or	0.144	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.710

Weighted Run-off Coefficient Calculation - 104

Site Area:	18,202.07	S.F.	or	0.418	Acres
Surface No. 1 - Pavement:	16,663.97	S.F.	or	0.383	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,538.10	S.F.	or	0.035	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	18,202.07	S.F.	or	0.418	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.899

Weighted Run-off Coefficient Calculation - 105

Site Area:	13,477.22	S.F.	or	0.309	Acres
Surface No. 1 - Pavement:	4,473.42	S.F.	or	0.103	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	9,003.80	S.F.	or	0.207	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	13,477.22	S.F.	or	0.309	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.549

Weighted Run-off Coefficient Calculation - 106

Site Area:	24,372.11	S.F.	or	0.560	Acres
Surface No. 1 - Pavement:	13,394.16	S.F.	or	0.307	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	10,977.95	S.F.	or	0.252	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	24,372.11	S.F.	or	0.560	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.680

Weighted Run-off Coefficient Calculation - 107

Site Area:	12,172.75	S.F.	or	0.279	Acres
Surface No. 1 - Pavement:	6,372.94	S.F.	or	0.146	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	5,799.81	S.F.	or	0.133	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	12,172.75	S.F.	or	0.279	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.664

Weighted Run-off Coefficient Calculation - 108

Site Area:	9,982.94	S.F.	or	0.229	Acres
Surface No. 1 - Pavement:	8,563.66	S.F.	or	0.197	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,419.28	S.F.	or	0.033	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	9,982.94	S.F.	or	0.229	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.865

Weighted Run-off Coefficient Calculation - 109

Site Area:	16,823.90	S.F.	or	0.386	Acres
Surface No. 1 - Pavement:	16,074.43	S.F.	or	0.369	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	749.47	S.F.	or	0.017	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	16,823.90	S.F.	or	0.386	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.923

Weighted Run-off Coefficient Calculation - 110

Site Area:	20,858.36	S.F.	or	0.479	Acres
Surface No. 1 - Pavement:	19,994.95	S.F.	or	0.459	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	863.41	S.F.	or	0.020	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	20,858.36	S.F.	or	0.479	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.925

Weighted Run-off Coefficient Calculation - 111

Site Area:	15,394.53	S.F.	or	0.353	Acres
Surface No. 1 - Pavement:	13,563.53	S.F.	or	0.311	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,831.00	S.F.	or	0.042	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,394.53	S.F.	or	0.353	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.879

Weighted Run-off Coefficient Calculation - 112

Site Area:	19,191.88	S.F.	or	0.441	Acres
Surface No. 1 - Pavement:	19,191.88	S.F.	or	0.441	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	19,191.88	S.F.	or	0.441	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 113

Site Area:	20,434.28	S.F.	or	0.469	Acres
Surface No. 1 - Pavement:	19,607.96	S.F.	or	0.450	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	826.32	S.F.	or	0.019	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	20,434.28	S.F.	or	0.469	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.926

Weighted Run-off Coefficient Calculation - 114

Site Area:	15,087.24	S.F.	or	0.346	Acres
Surface No. 1 - Pavement:	13,344.24	S.F.	or	0.306	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,743.00	S.F.	or	0.040	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,087.24	S.F.	or	0.346	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.881

Weighted Run-off Coefficient Calculation - 115

Site Area:	18,800.79	S.F.	or	0.432	Acres
Surface No. 1 - Pavement:	18,800.79	S.F.	or	0.432	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	18,800.79	S.F.	or	0.432	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 116

Site Area:	20,303.97	S.F.	or	0.466	Acres
Surface No. 1 - Pavement:	19,182.34	S.F.	or	0.440	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,121.63	S.F.	or	0.026	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	20,303.97	S.F.	or	0.466	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.917

Weighted Run-off Coefficient Calculation - 117

Site Area:	15,145.30	S.F.	or	0.348	Acres
Surface No. 1 - Pavement:	12,761.00	S.F.	or	0.293	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	2,384.30	S.F.	or	0.055	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,145.30	S.F.	or	0.348	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.856

Weighted Run-off Coefficient Calculation - 118

Site Area:	18,779.06	S.F.	or	0.431	Acres
Surface No. 1 - Pavement:	18,779.06	S.F.	or	0.431	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	18,779.06	S.F.	or	0.431	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 119

Site Area:	16,589.84	S.F.	or	0.381	Acres
Surface No. 1 - Pavement:	16,027.57	S.F.	or	0.368	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	562.27	S.F.	or	0.013	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	16,589.84	S.F.	or	0.381	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.930

Weighted Run-off Coefficient Calculation - 120

Site Area:	12,374.38	S.F.	or	0.284	Acres
Surface No. 1 - Pavement:	11,183.04	S.F.	or	0.257	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	1,191.34	S.F.	or	0.027	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	12,374.38	S.F.	or	0.284	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.892

Weighted Run-off Coefficient Calculation - 121

Site Area:	15,340.17	S.F.	or	0.352	Acres
Surface No. 1 - Pavement:	15,340.17	S.F.	or	0.352	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	0.00	S.F.	or	0.000	Acres
Surface No. 4 - Other:	0.00	S.F.	or	0.000	Acres
				0	
Sum of Individual Areas:	15,340.17	S.F.	or	0.352	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.950

Weighted Run-off Coefficient Calculation - 122

Site Area:	219,559.51	S.F.	or	5.040	Acres
Surface No. 1 - Pavement:	0.00	S.F.	or	0.000	Acres
Surface No. 2 - Building:	0.00	S.F.	or	0.000	Acres
Surface No. 3 - Landscape:	64,663.51	S.F.	or	1.484	Acres
Surface No. 4 - Other:	154,896.00	S.F.	or	3.556	Acres
				0	
Sum of Individual Areas:	219,559.51	S.F.	or	5.040	Acres
Surface No. 1 - Coefficient:	0.95				
Surface No. 2 - Coefficient:	0.95				
Surface No. 3 - Coefficient:	0.35				
Surface No. 4 - Coefficient:	1.00				

Required Formula:

$$C\ (Average) = \frac{Area\ 1 * C1 + Area\ 2 * C2 + Area\ 3 * C3 + Area\ 4 * C4}{Area\ 1 + Area\ 2 + Area\ 3 + Area\ 4}$$

C (Average) = 0.809

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
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FAX. (248) 332-8257
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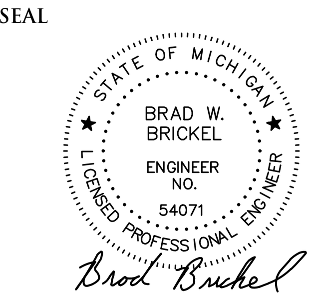
SEAL



PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

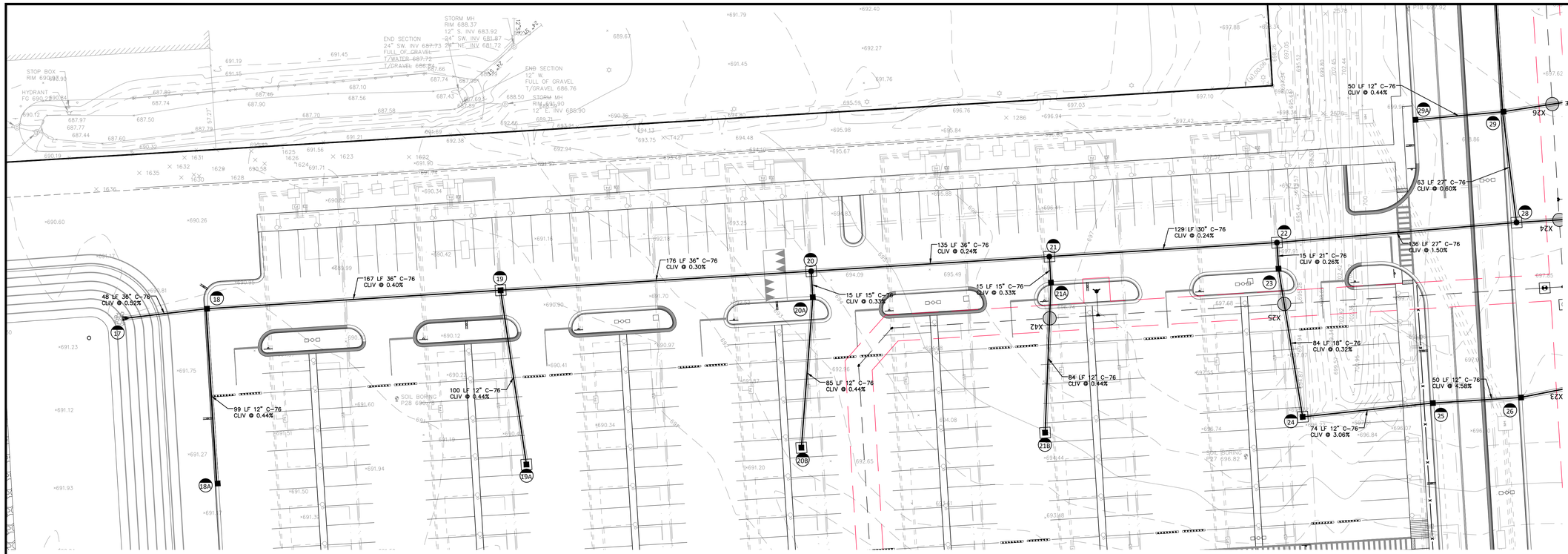
SHEET
Storm Calculations

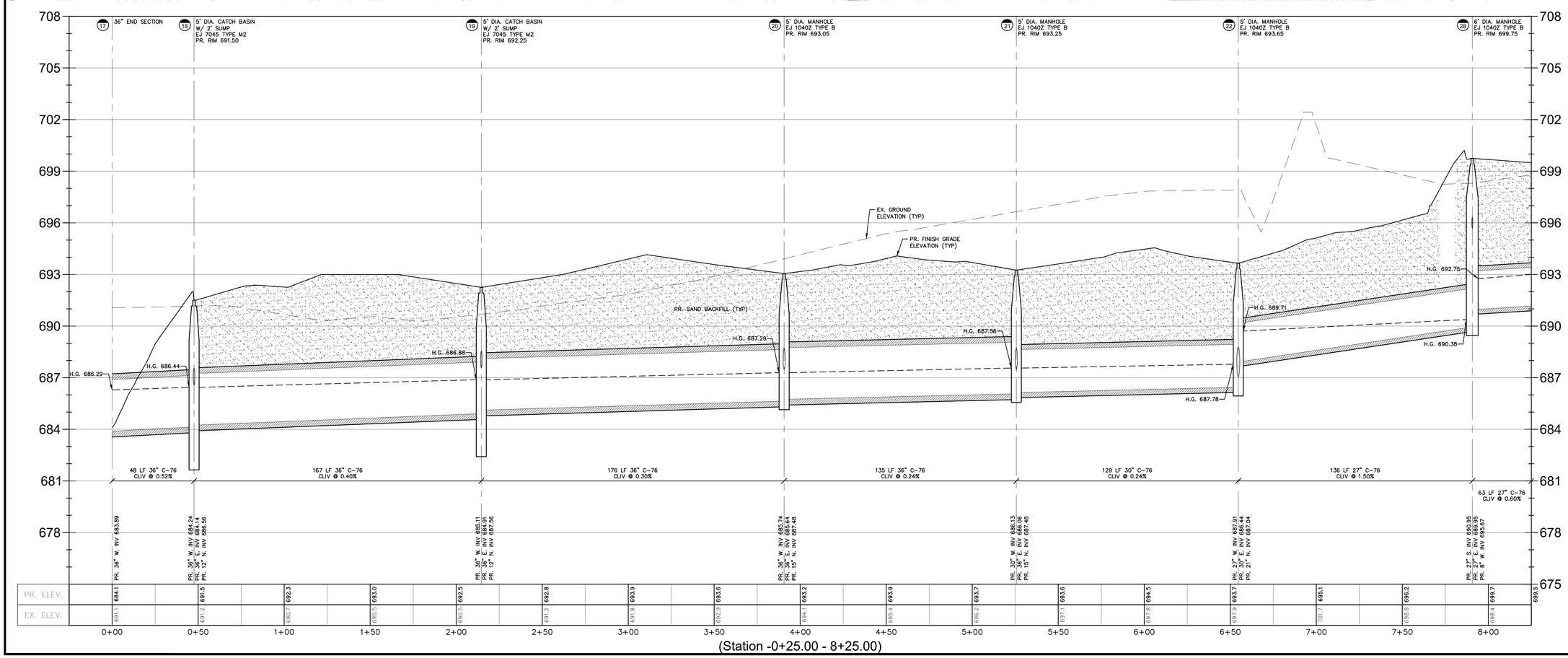
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 40'
40 20 0 20 40 60

NFE JOB NO. M278-01
SHEET NO. SP 5.16





(Station -0+25.00 - 8+25.00)

NF ENGINEERS
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LAND PLANNERS

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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
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Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

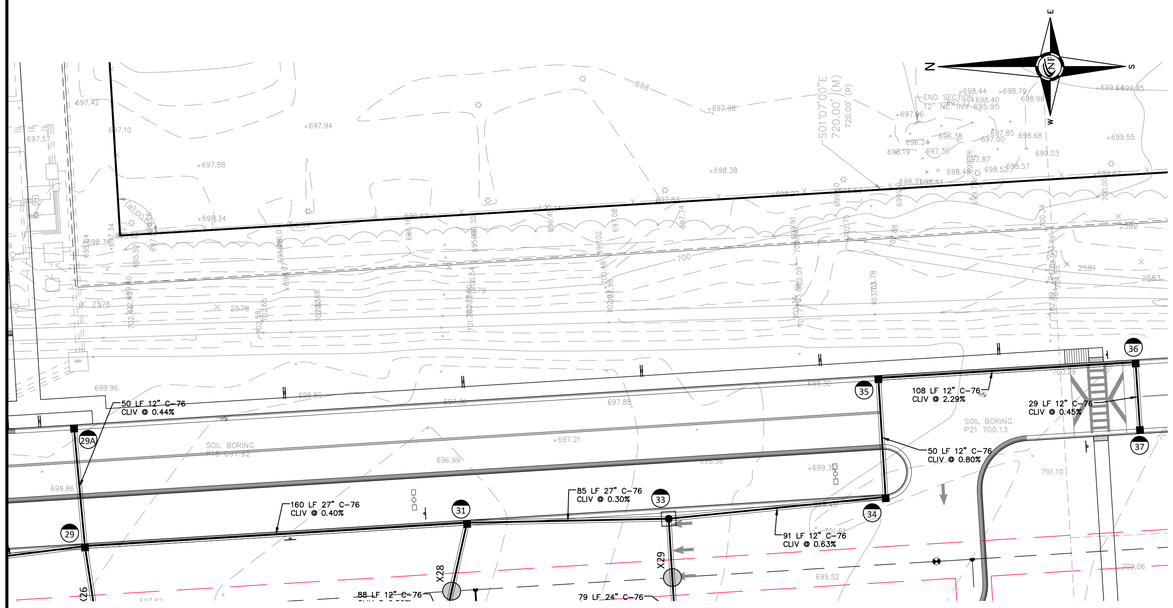
SHEET
Storm Drainage Profile Plan

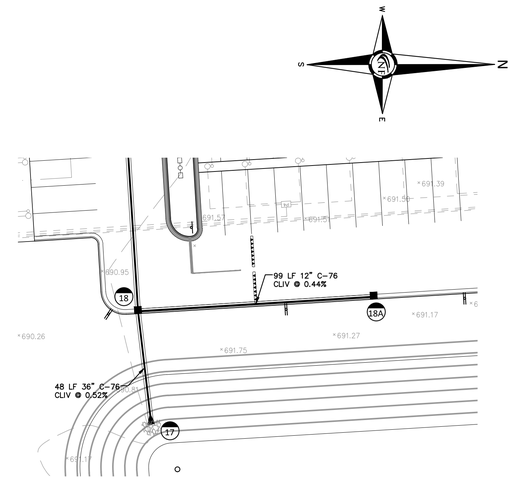
811 Know what's below Call before you dig.

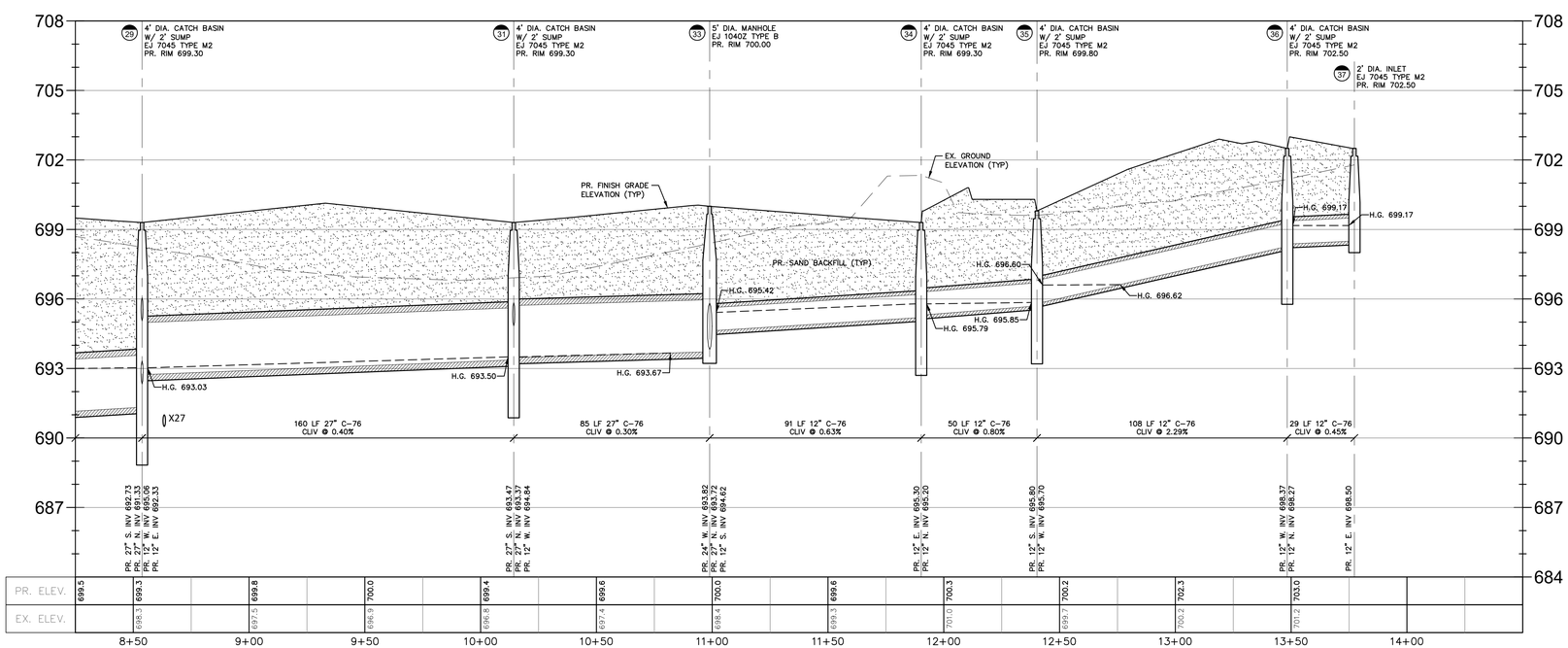
DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

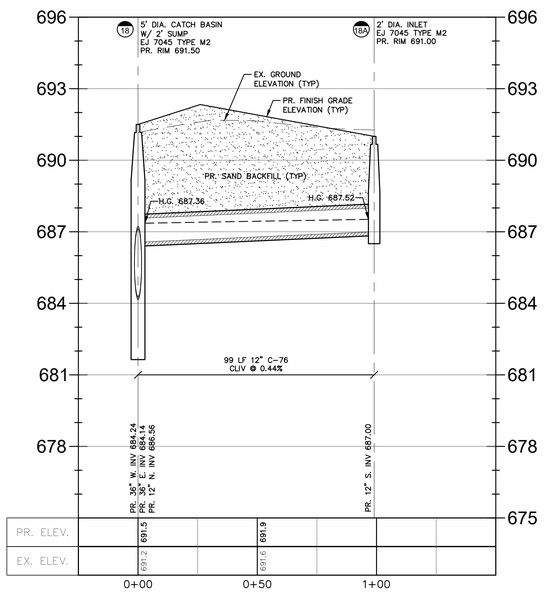
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
SHEET NO. SP 5.17









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BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

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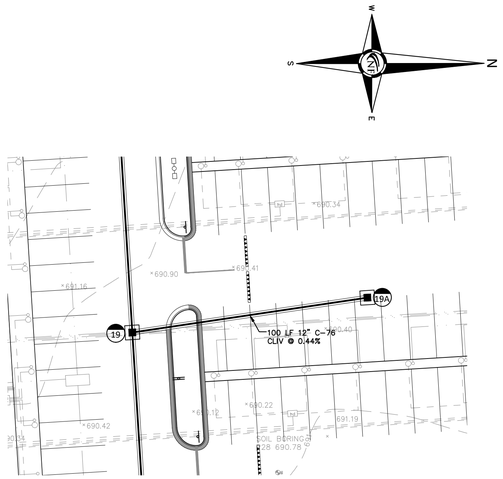
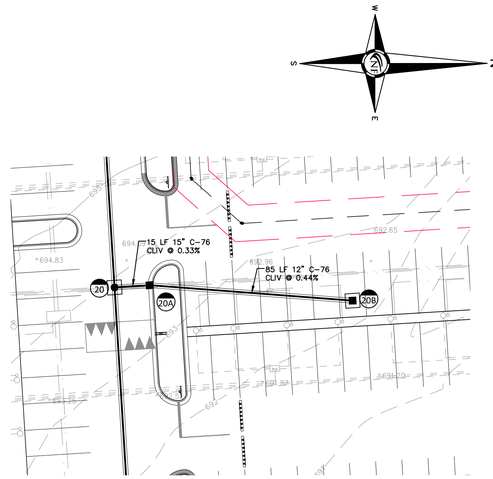
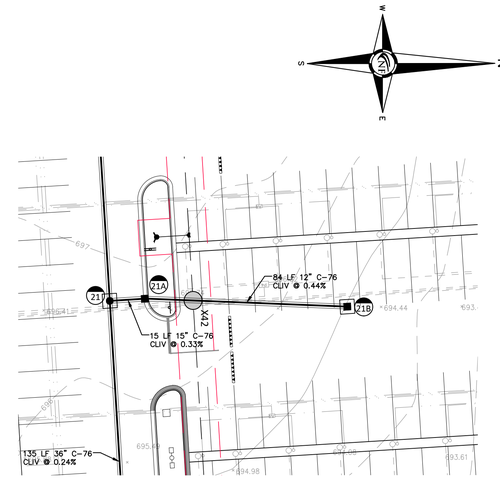
2022-01-07	ISSUED FOR ENGINEERING REVIEW

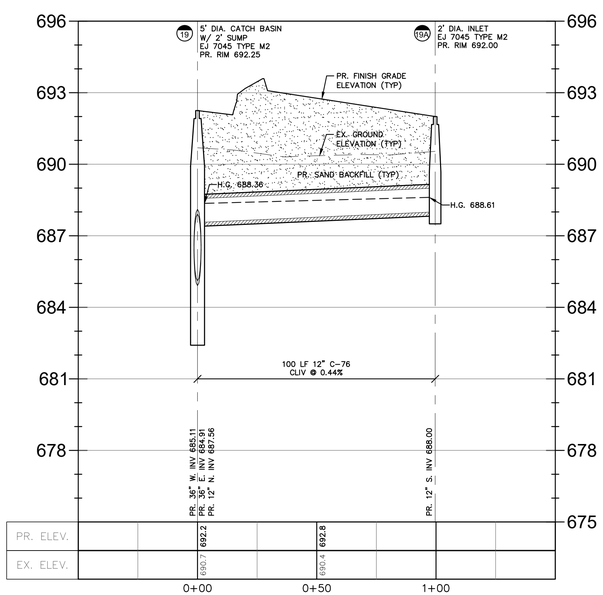
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30' / 1"=3'

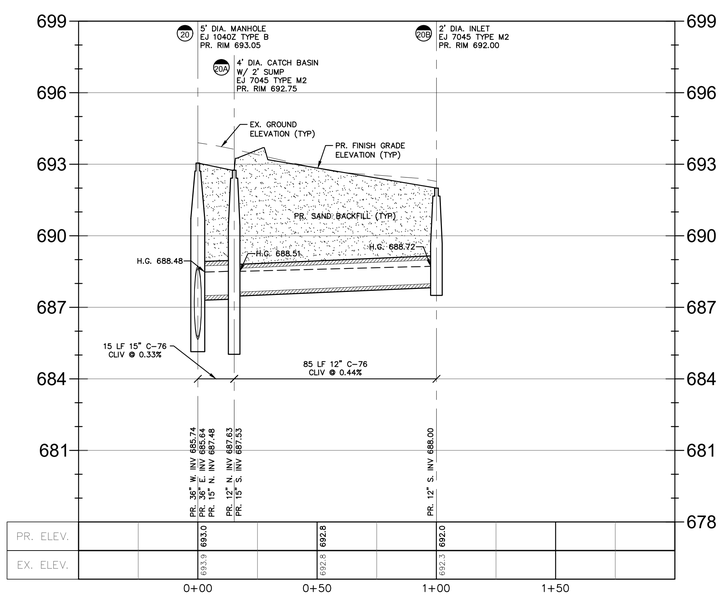
NFE JOB NO. M278-01
SHEET NO. SP 5.18

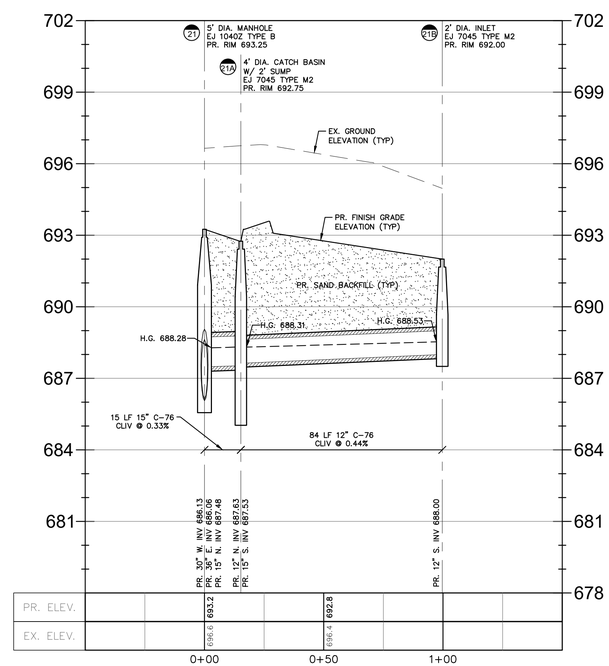












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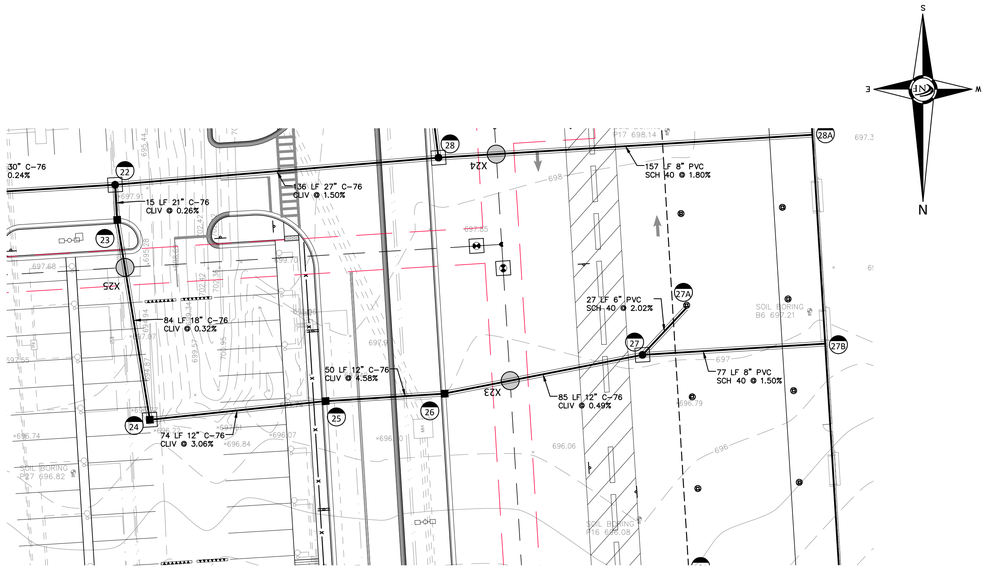
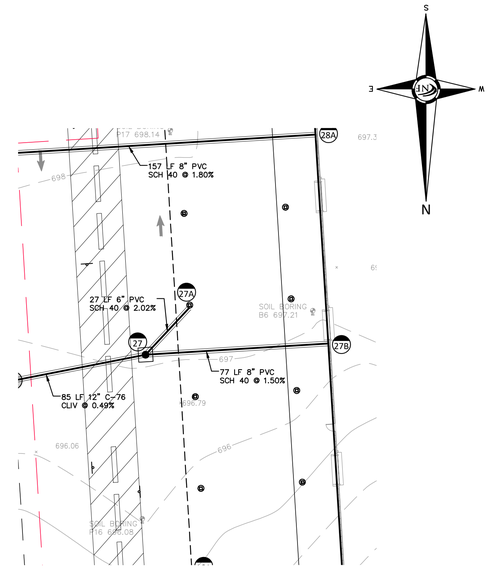
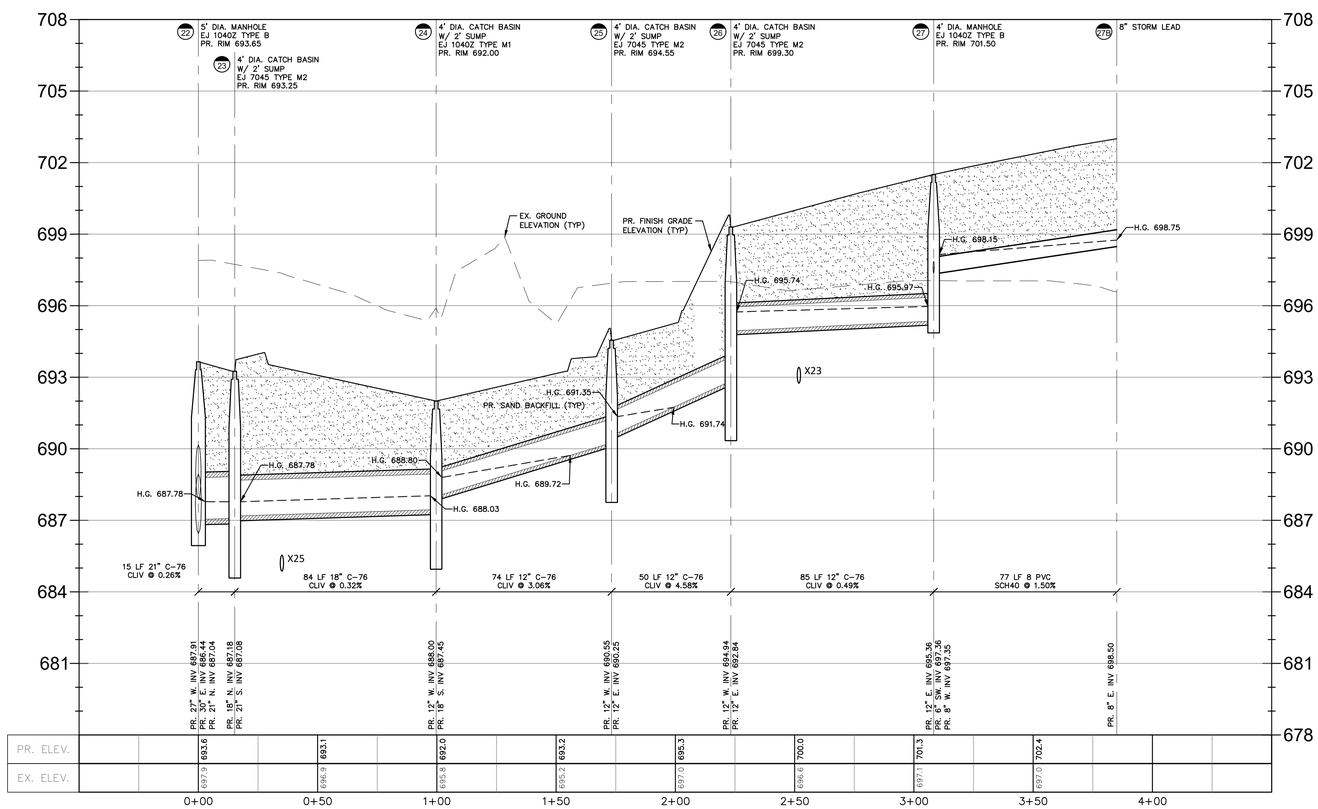
30 15 0 15 30 45

NFE JOB NO. **M278-01**

SHEET NO. **SP 5.19**







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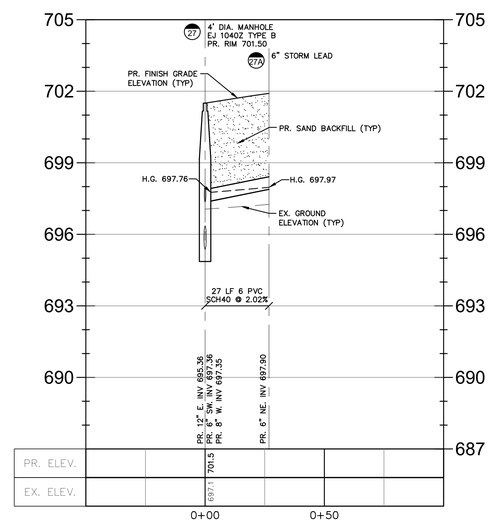

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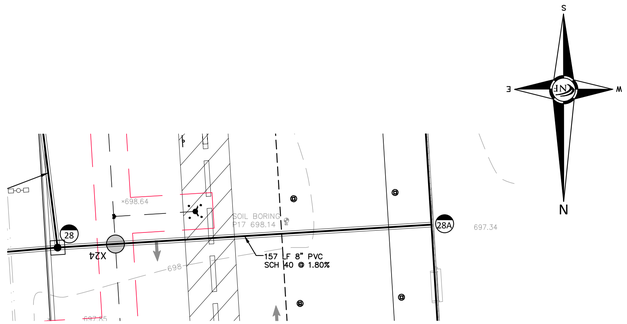
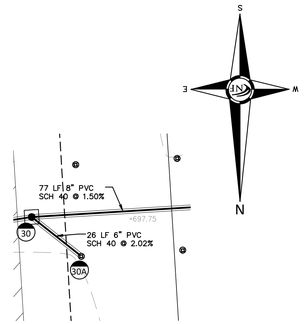
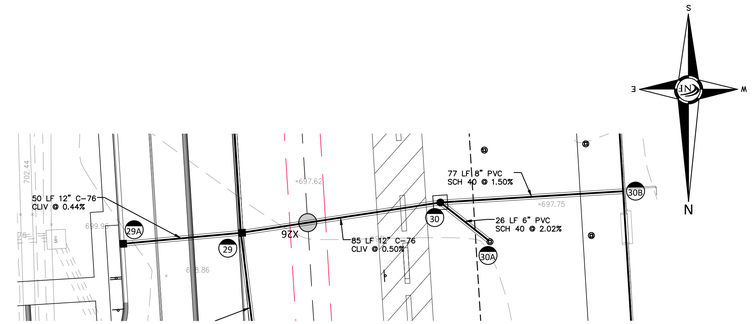
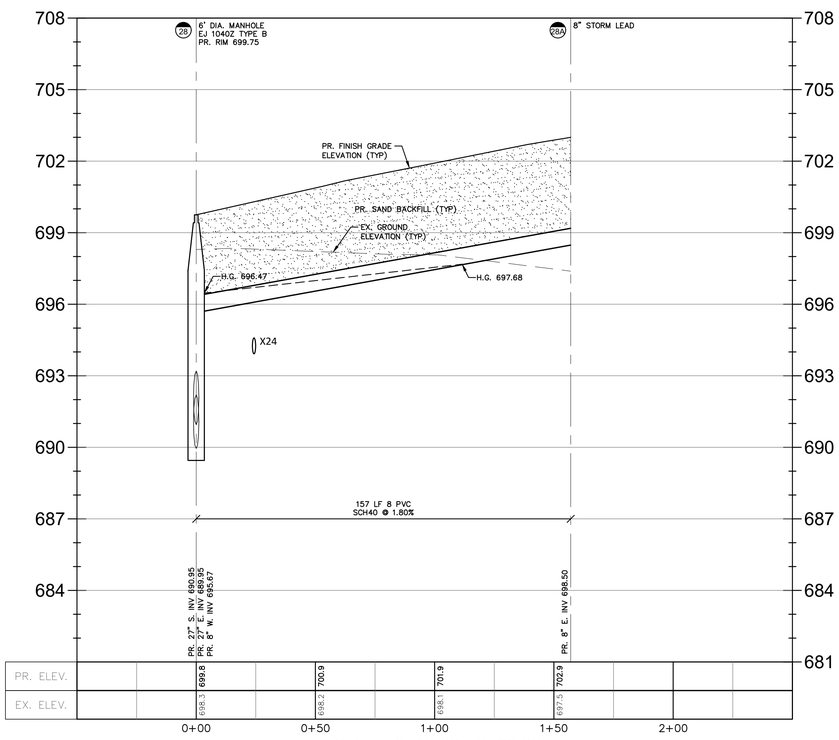
NFE JOB NO. M278-01
SHEET NO. SP 5.20









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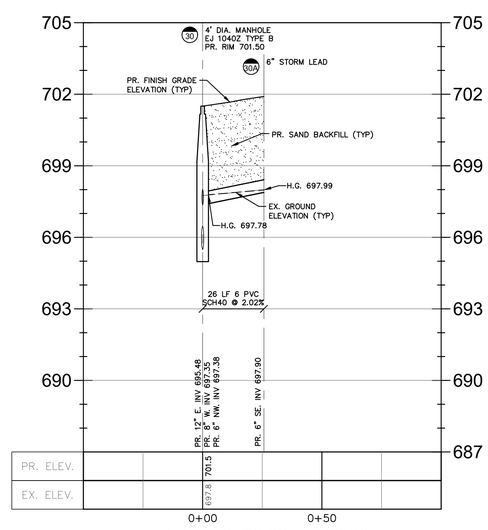

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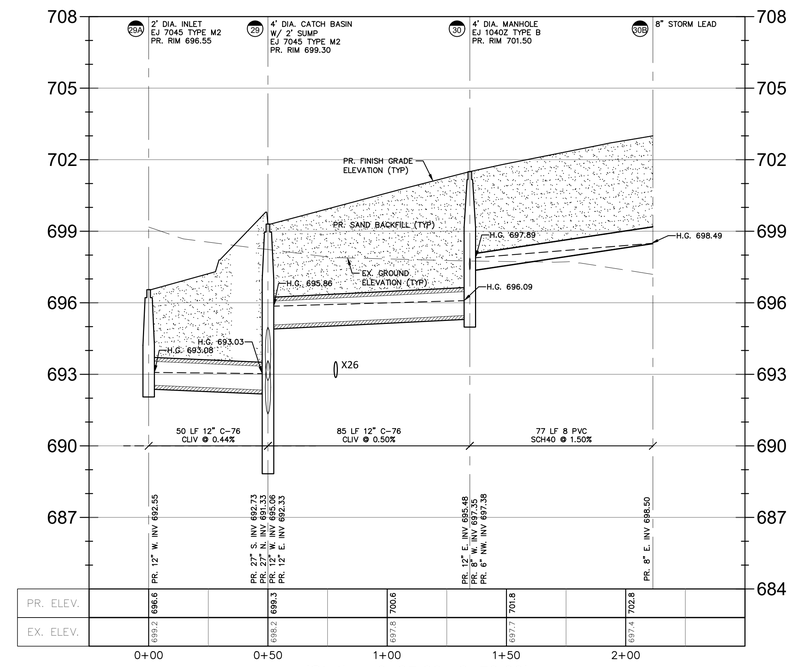

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APPROVED BY:
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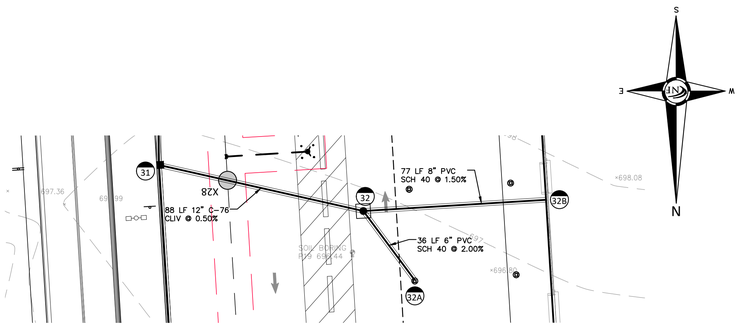
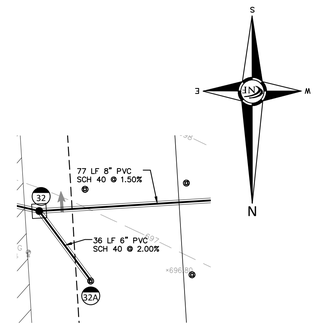
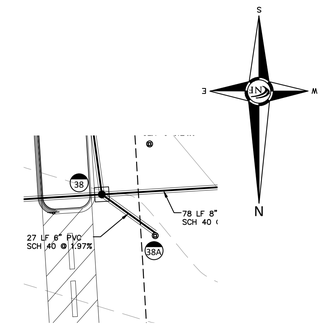
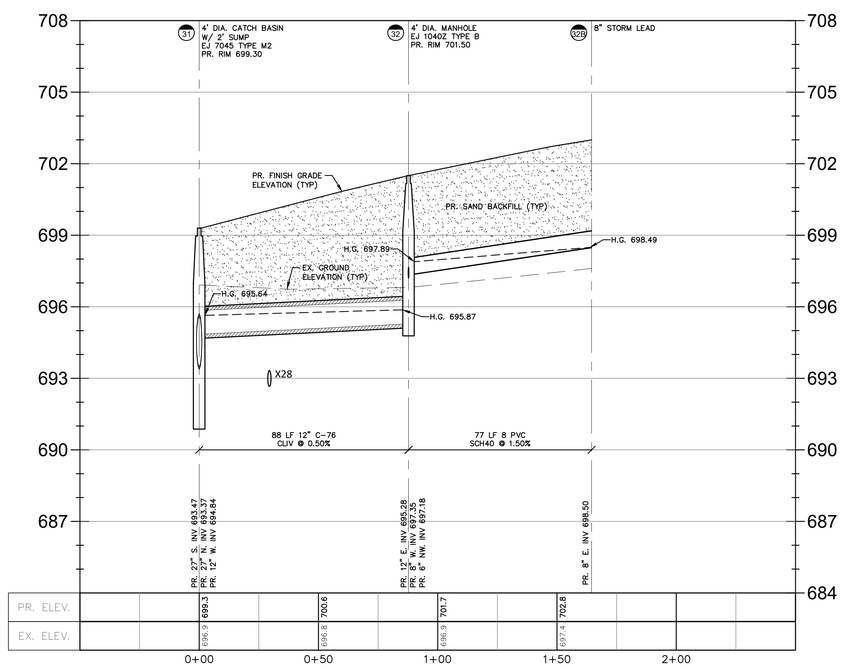
NFE JOB NO. M278-01

SHEET NO. SP 5.21









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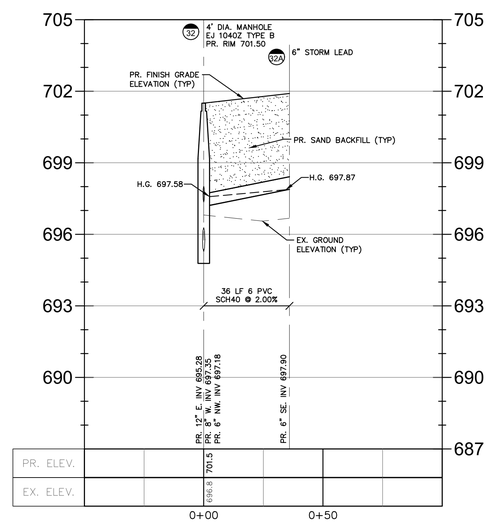

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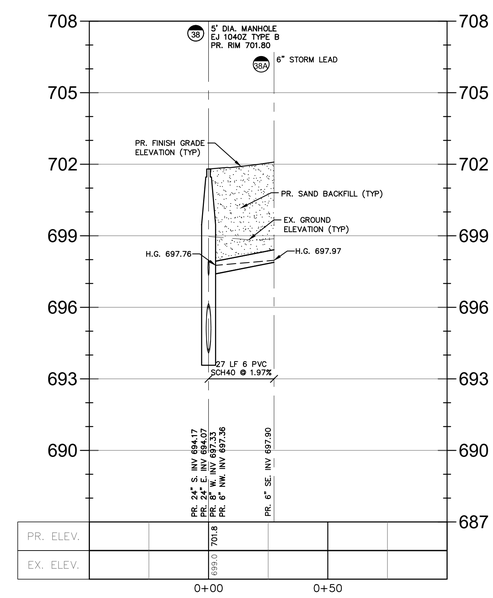

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NFE JOB NO. M278-01
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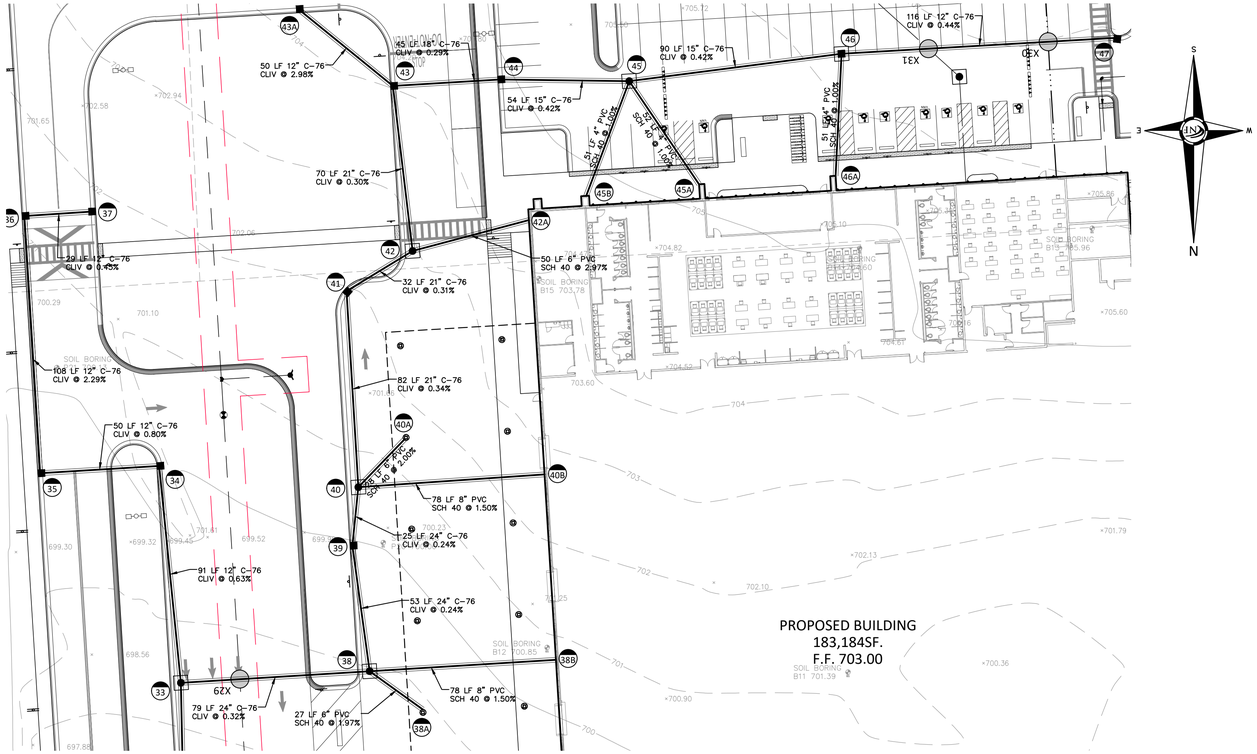

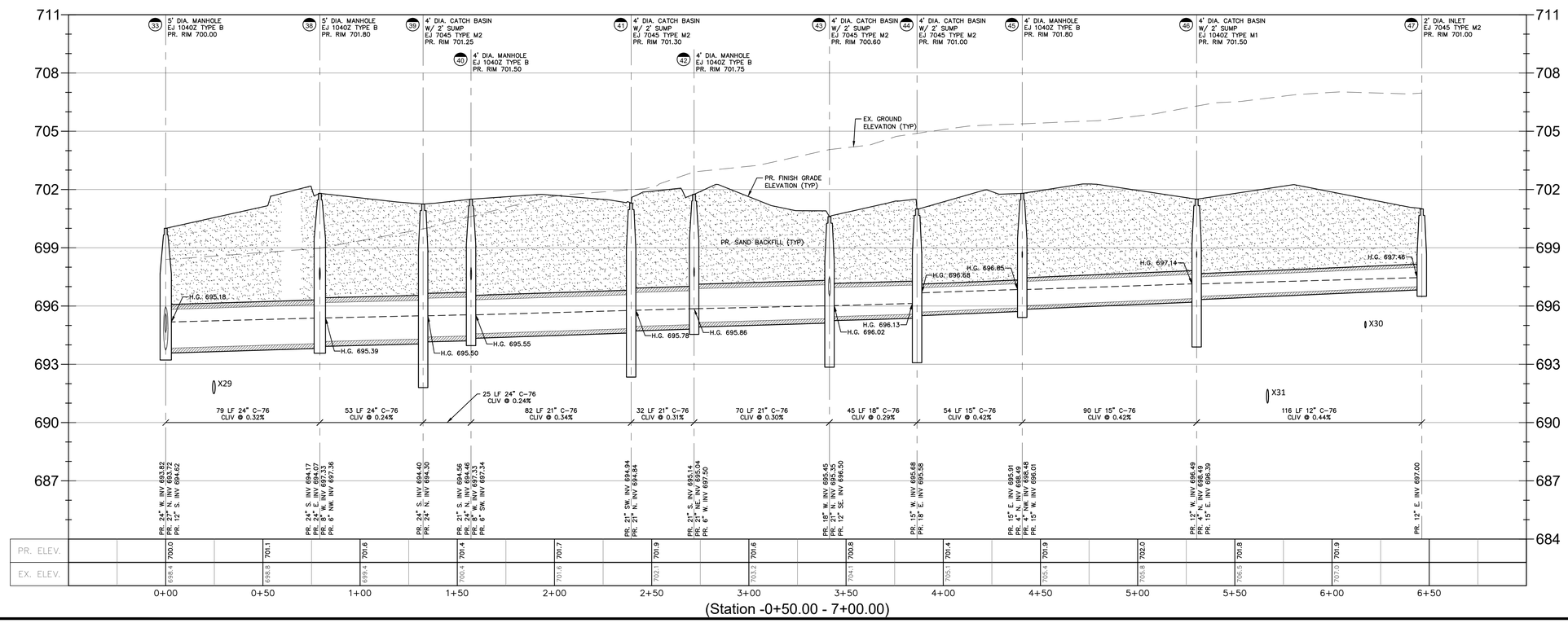

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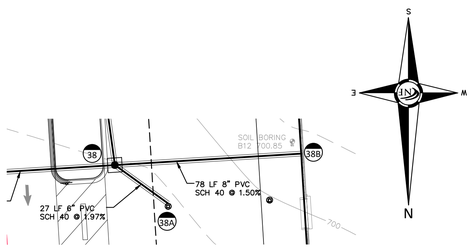

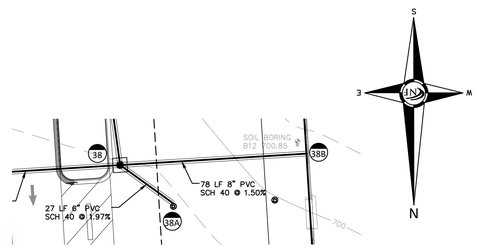

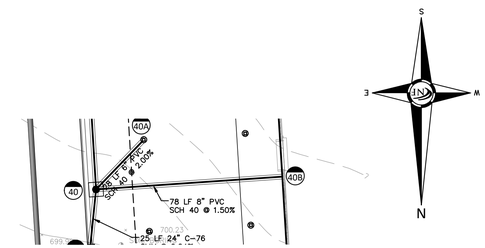

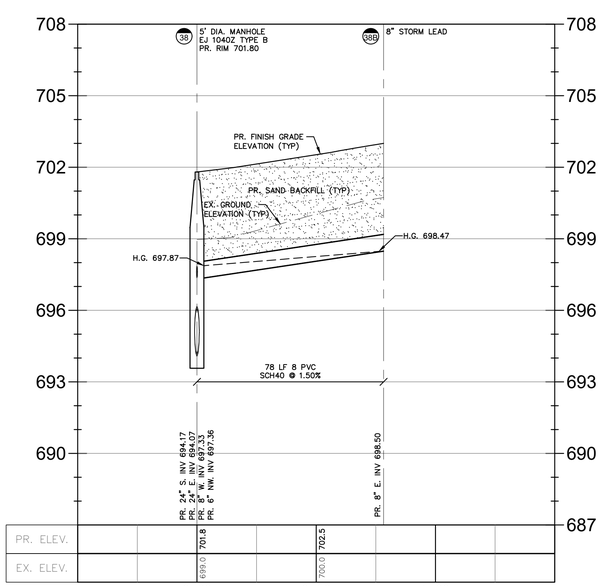

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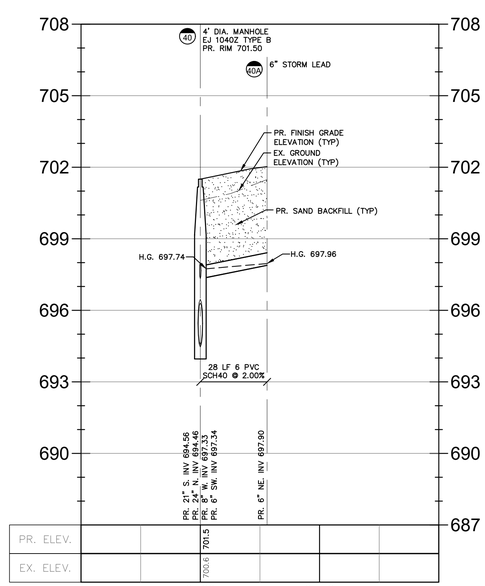

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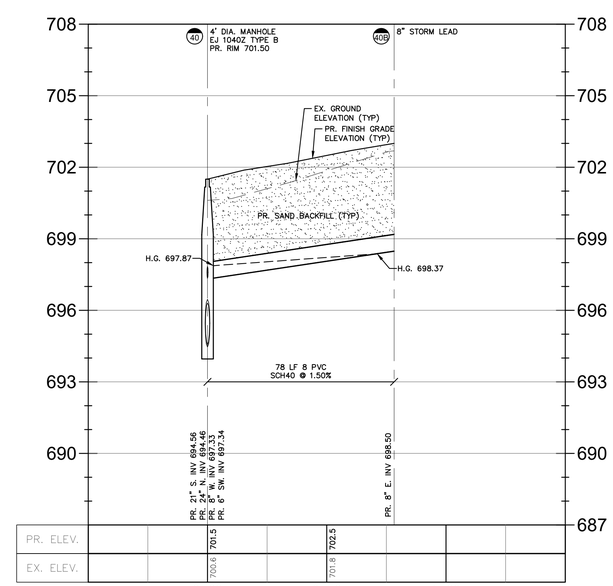

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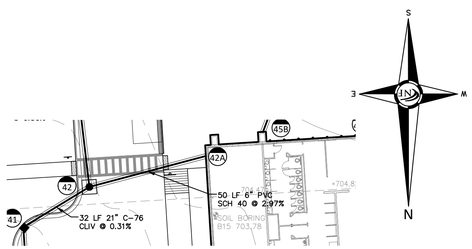
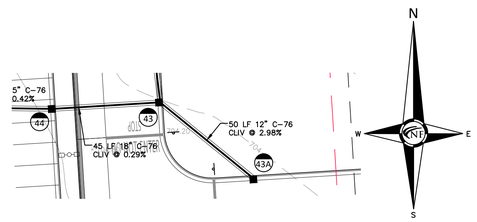
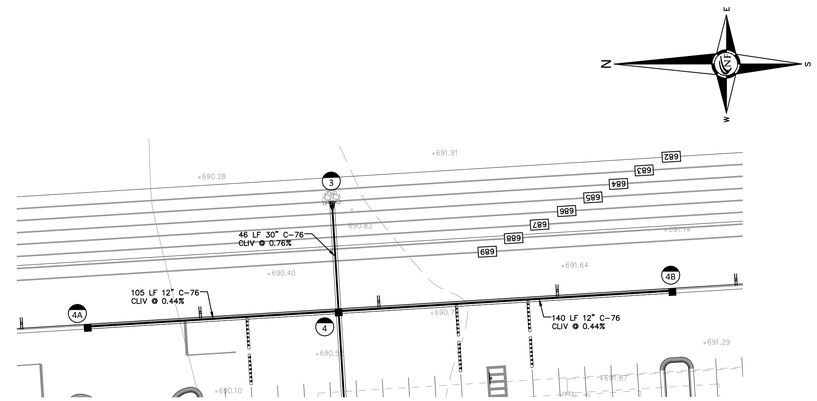
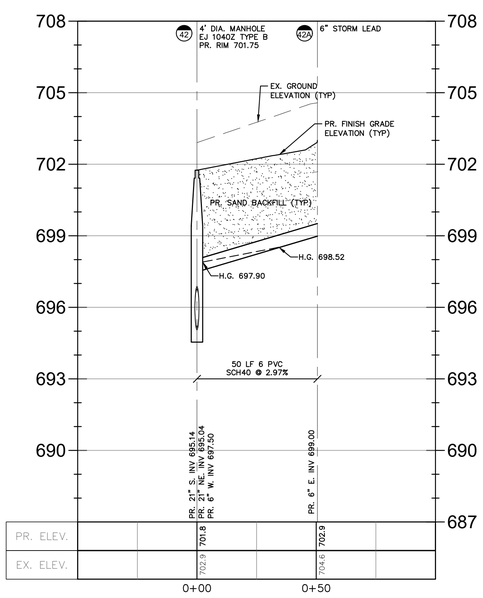
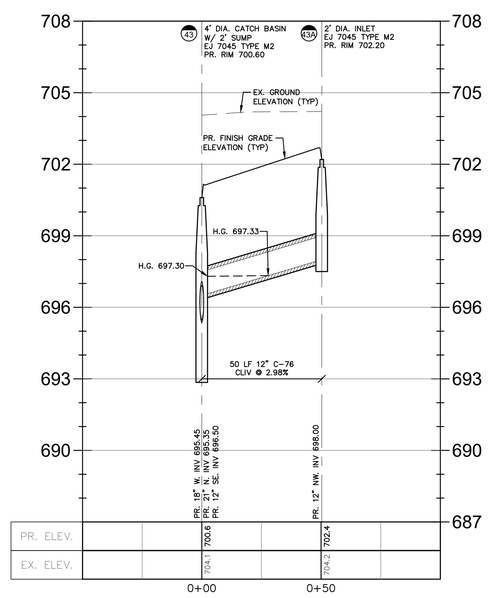
NFE JOB NO. **M278-01**
SHEET NO. **SP 5.24**

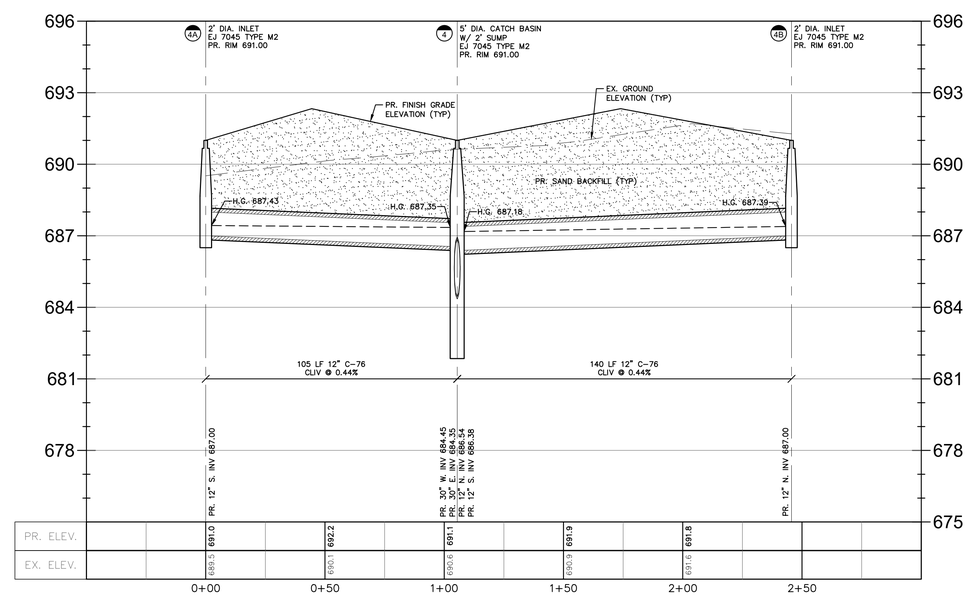












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BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
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Seefried Industrial Properties
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Chicago, IL 60631

Contact:
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T: (630) 251-5984

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SHEET
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2021-11-24	ISSUED FOR BIDDING
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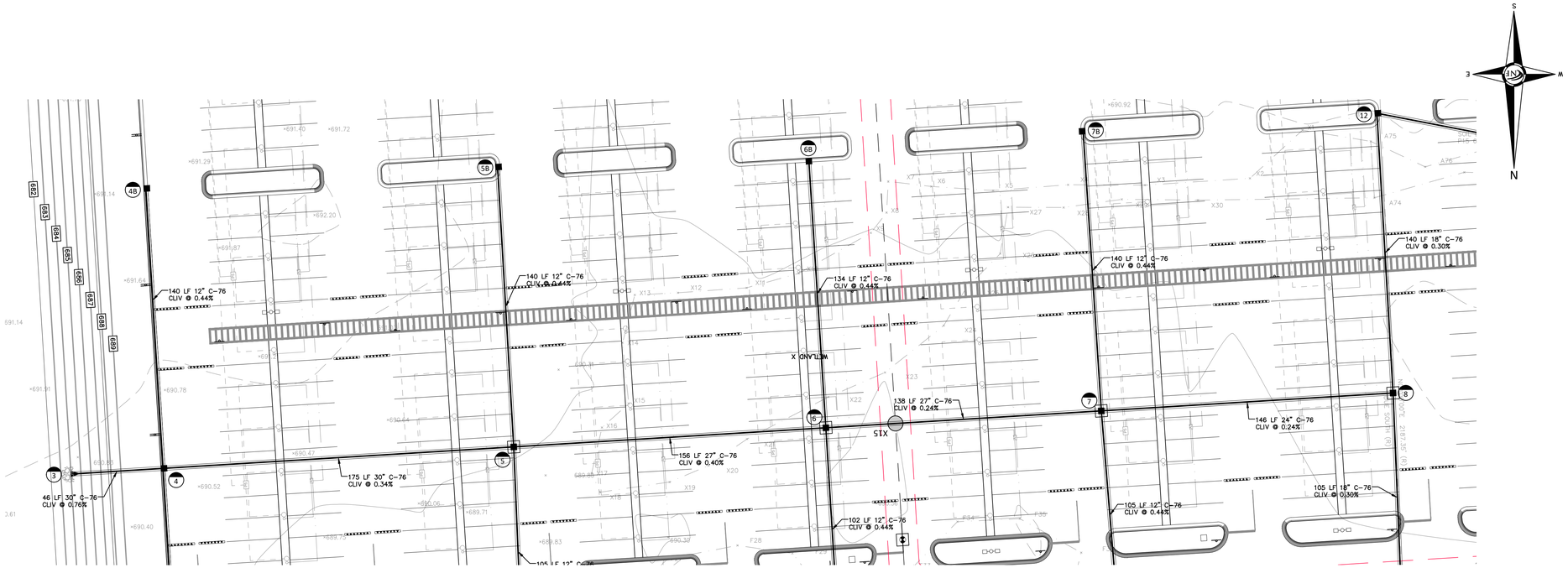
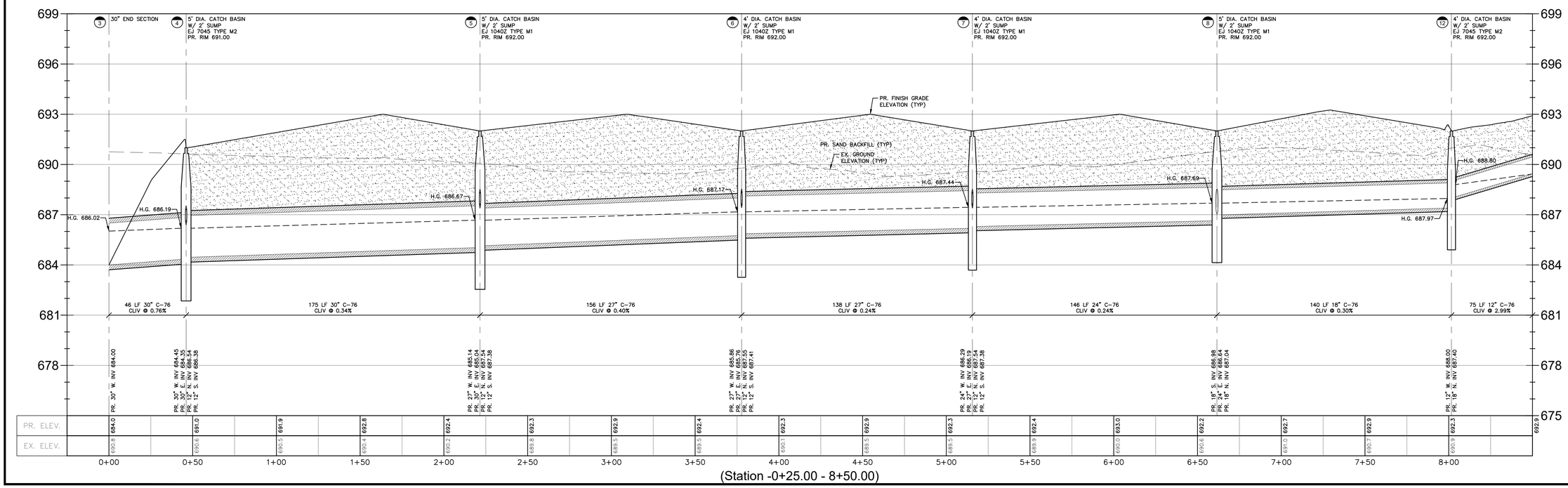
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
J. Lawrey
DESIGNED BY:
B. Brickel
APPROVED BY:
B. Brickel
DATE:
September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
SHEET NO. SP 5.25





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DRAWN BY: J. Lawrey
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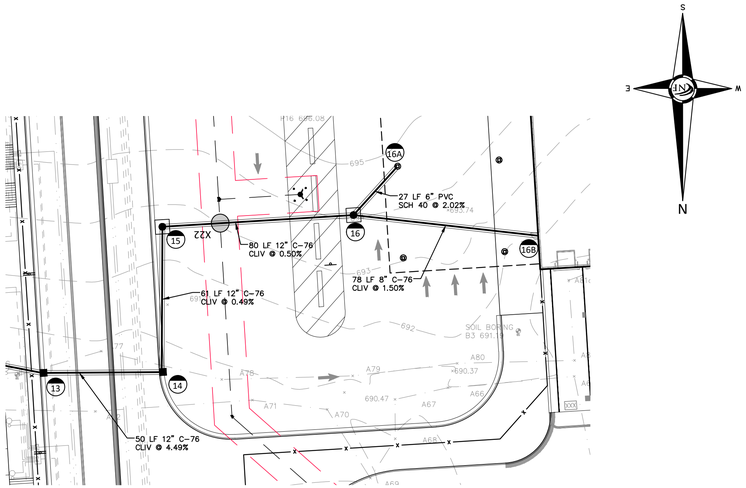
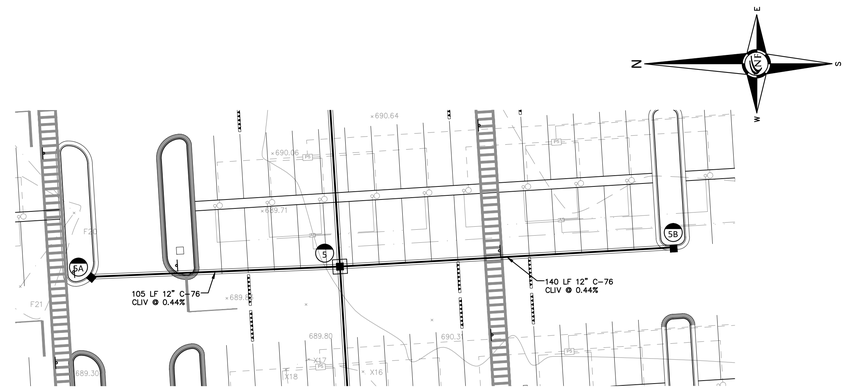
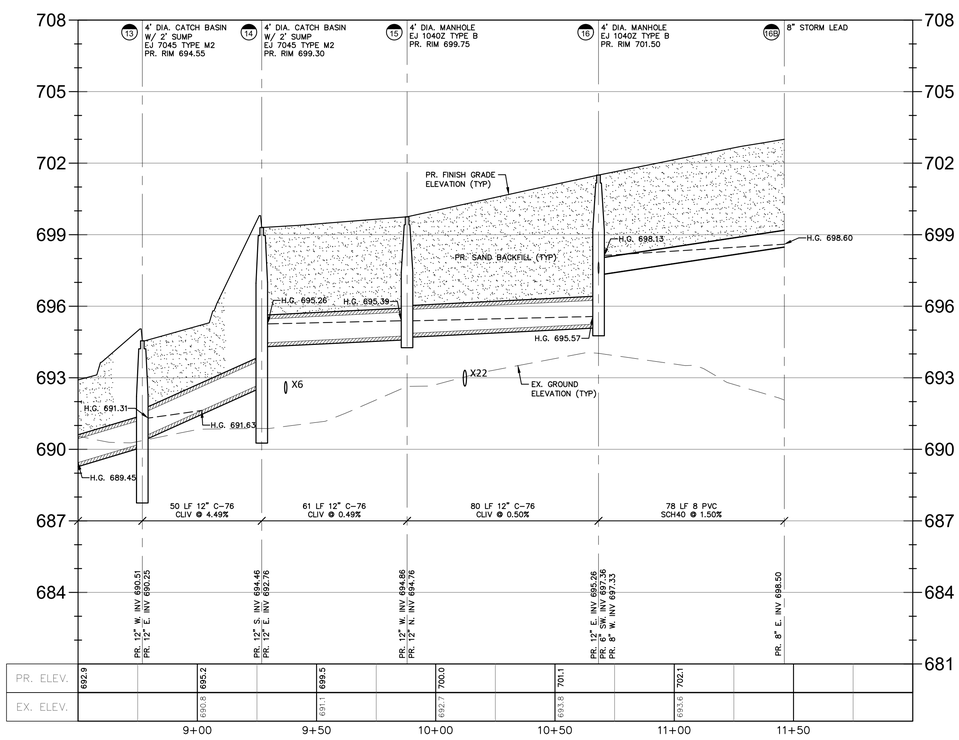
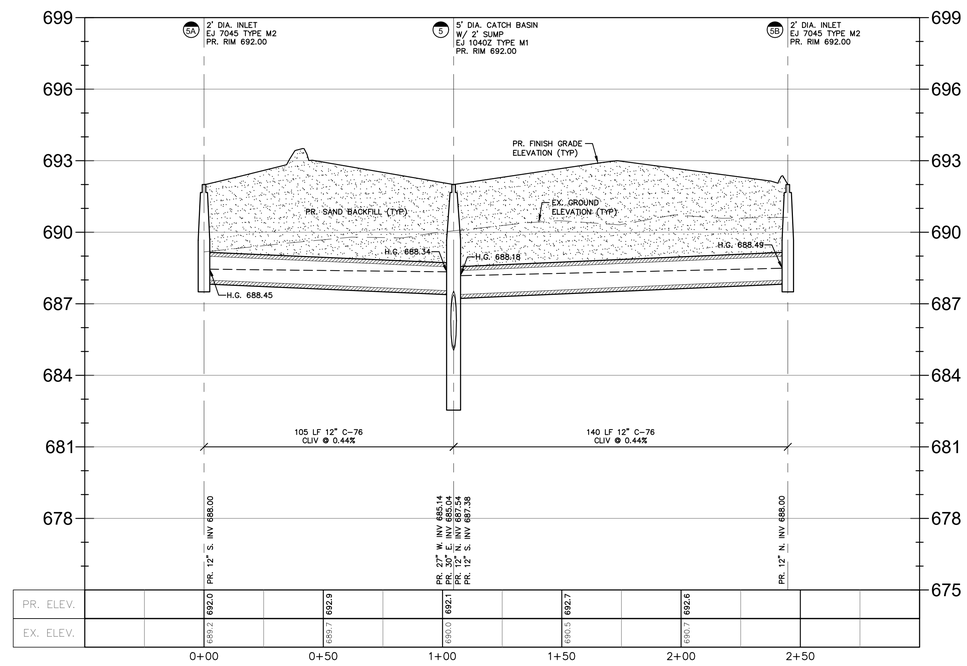
NFE JOB NO. M278-01
SHEET NO. SP 5.26







(Station 8+50.00 - 12+00.00)



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DRAWN BY:
J. Lawrey

DESIGNED BY:
B. Brickel

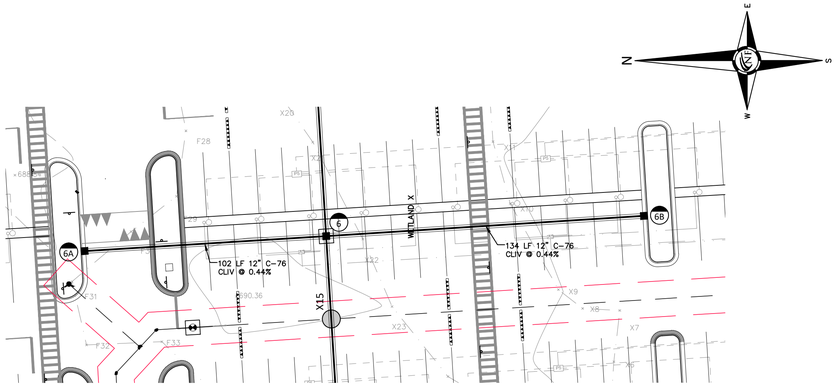
APPROVED BY:
B. Brickel

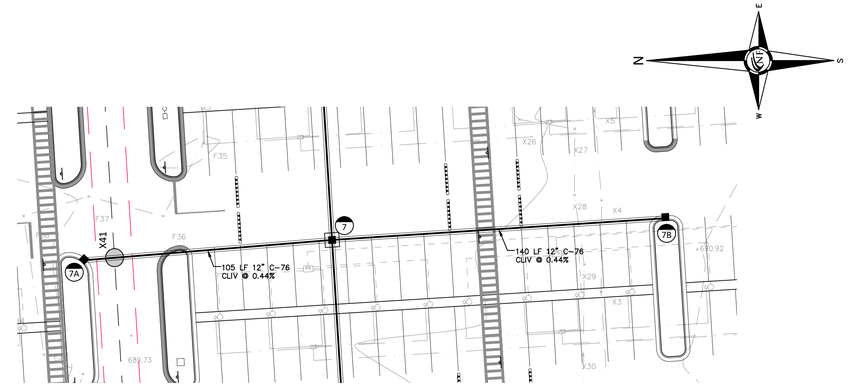
DATE:
September 24, 2021

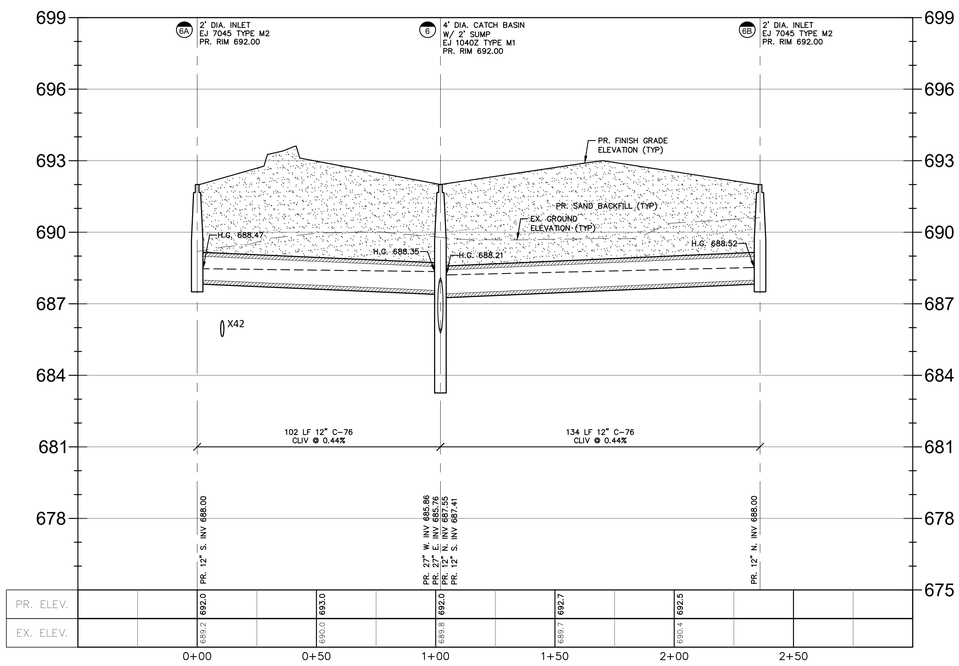
SCALE: 1" = 30' / 1"=3'
30 15 0 15 30 45

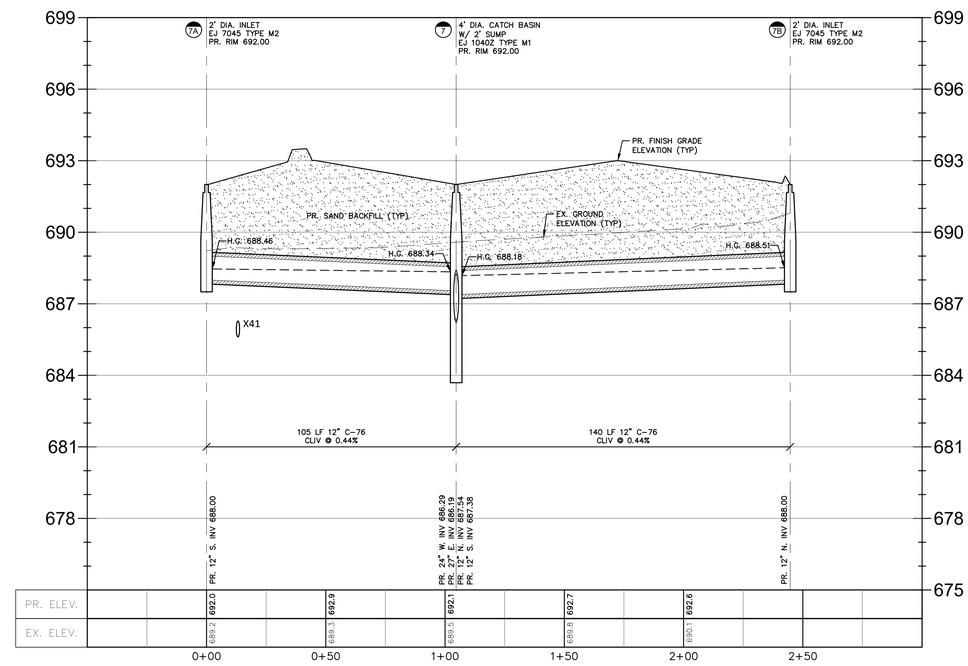
NFE JOB NO. **M278-01**

SHEET NO. **SP 5.27**









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DRAWN BY:
J. Lawrey

DESIGNED BY:
B. Brickel

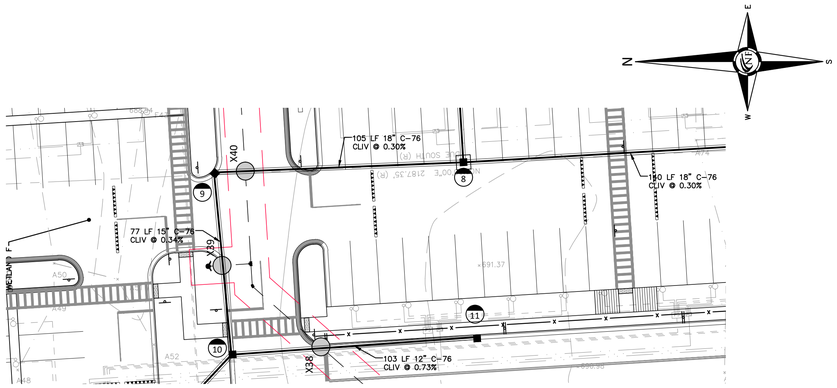
APPROVED BY:
B. Brickel

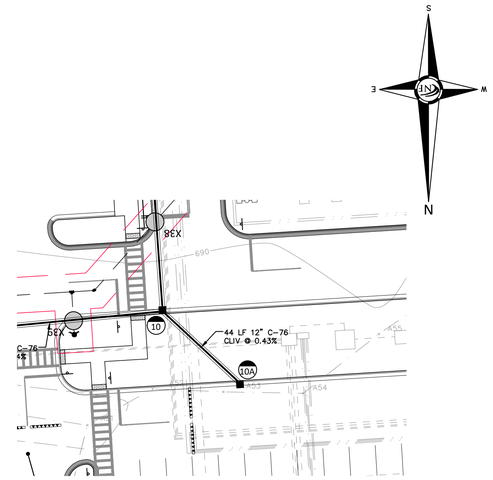
DATE:
September 24, 2021

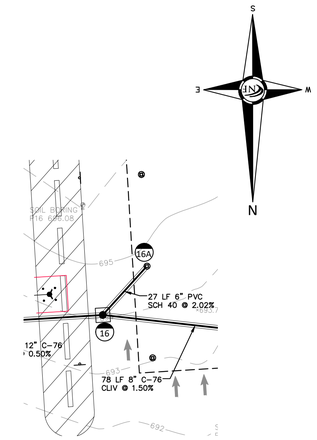
SCALE: 1" = 30' / 1"=3'

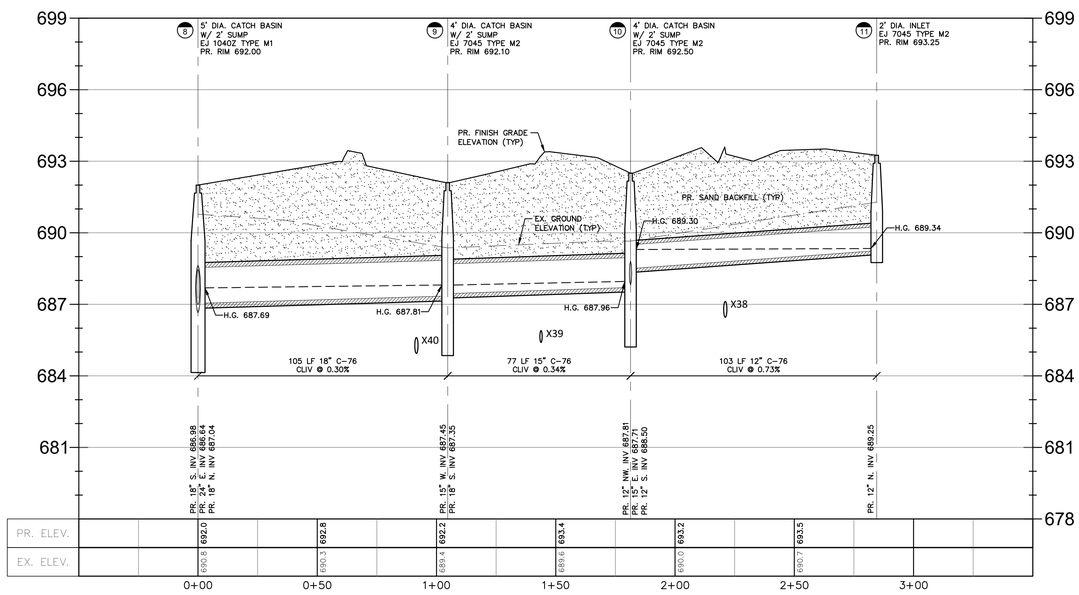
NFE JOB NO. M278-01

SHEET NO. SP 5.28

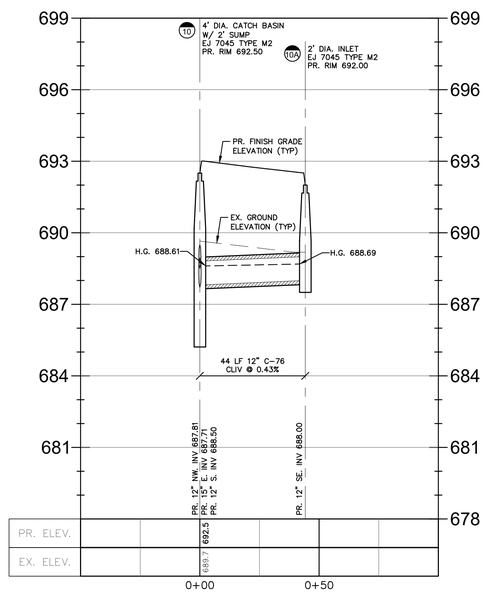




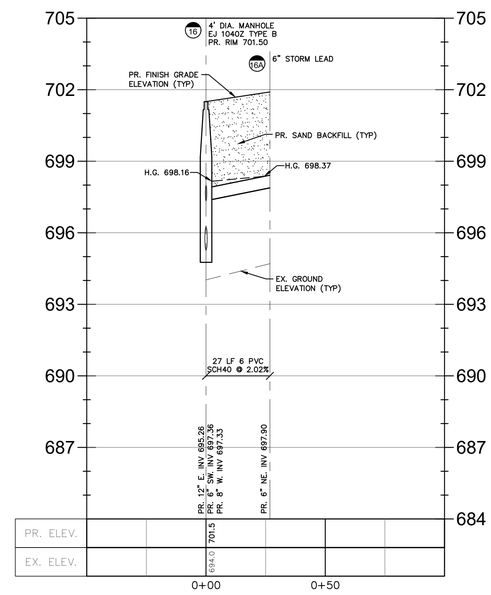




(Station -0+50.00 - 3+50.00)



(Station -0+50.00 - 1+00.00)



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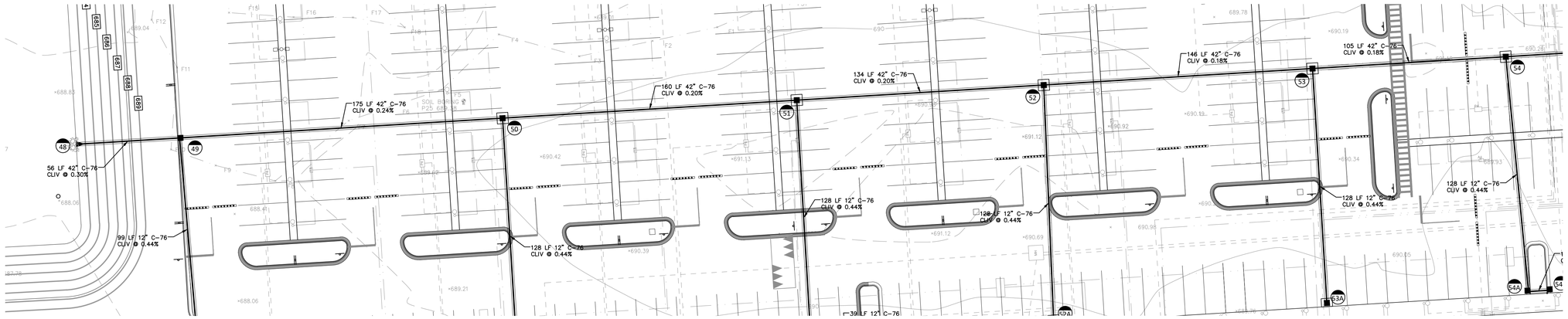
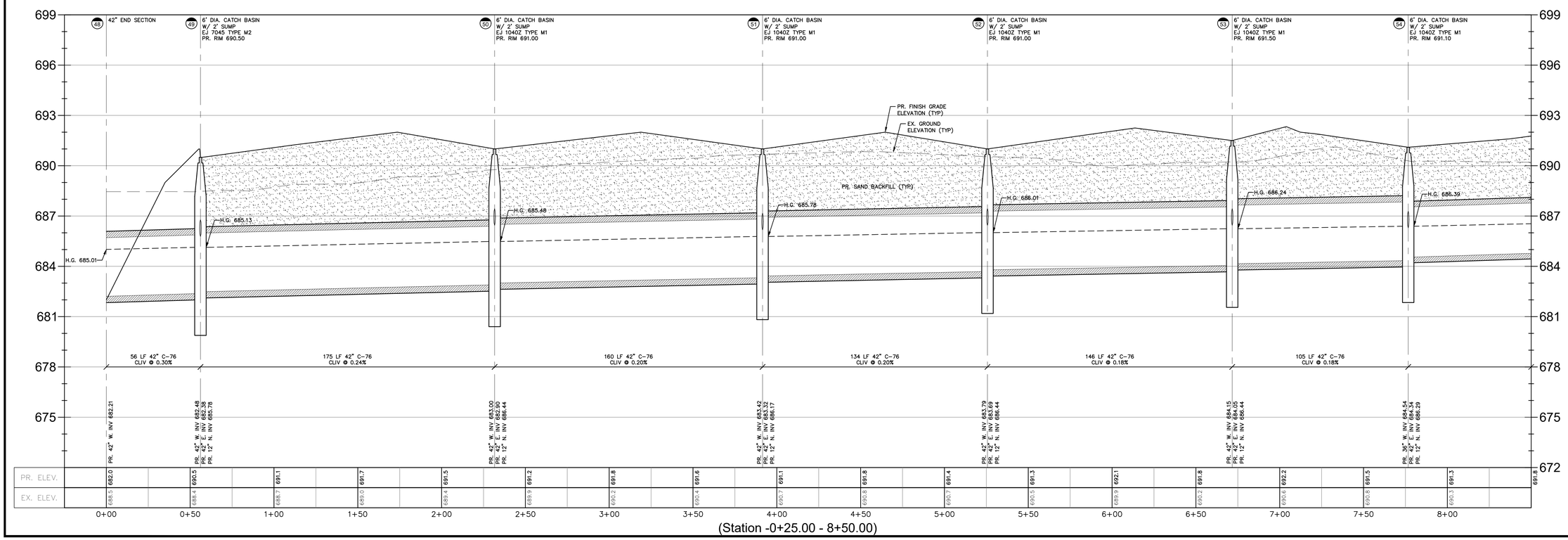
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
SHEET NO. SP 5.29





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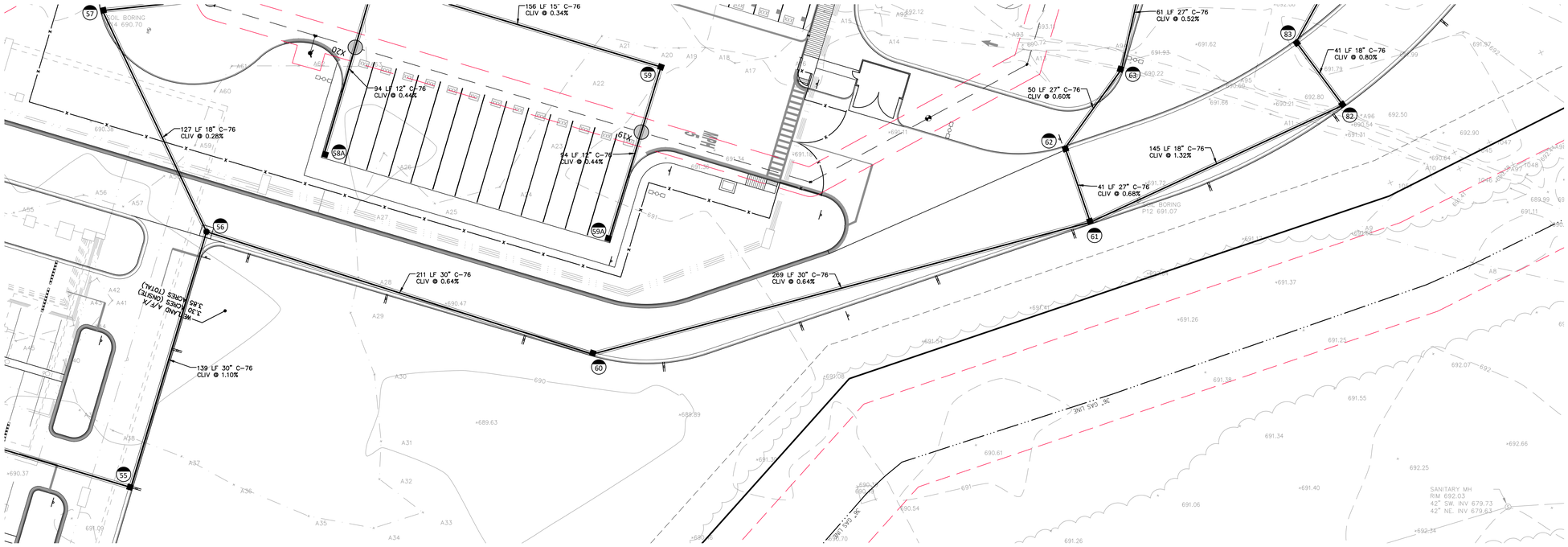
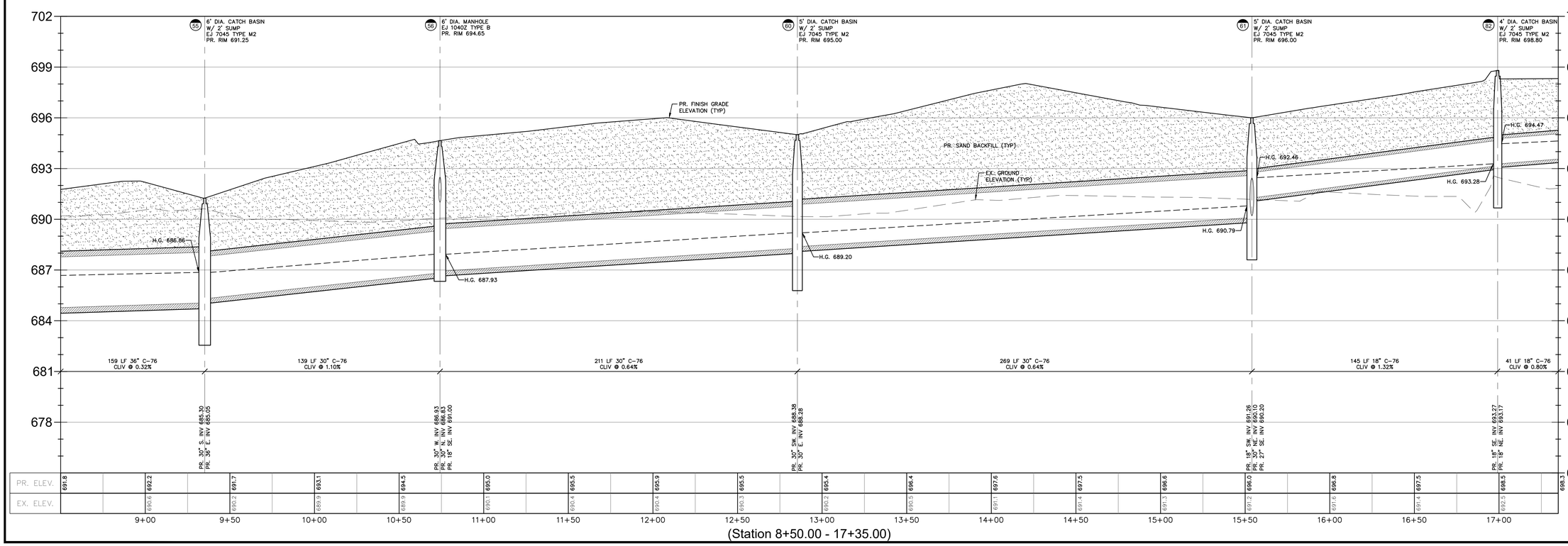
NFE JOB NO. M278-01
SHEET NO. SP 5.30





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APPROVED BY:
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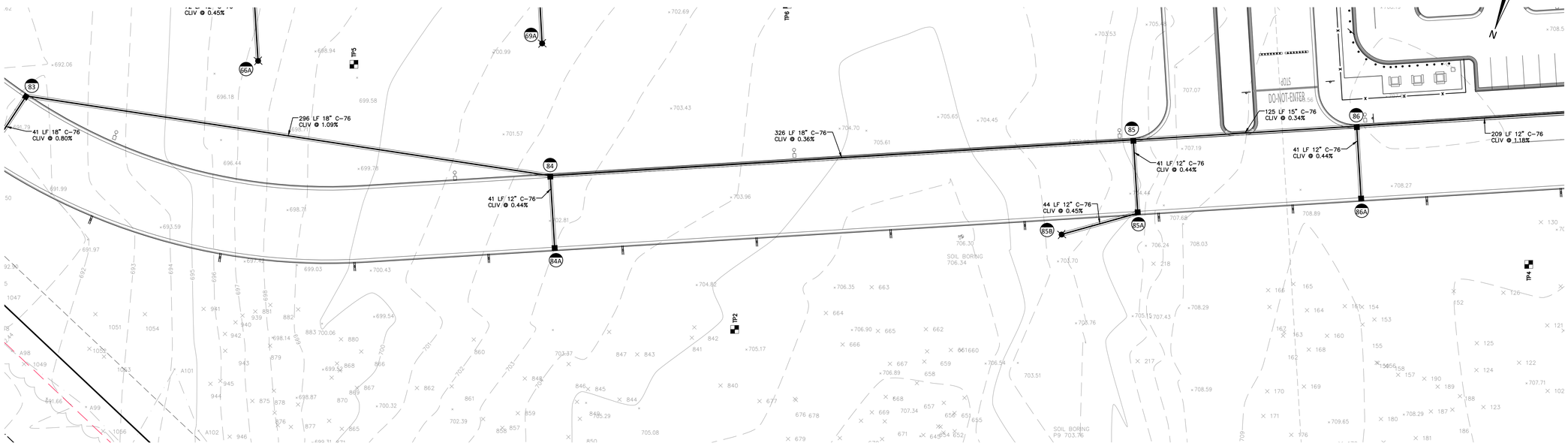
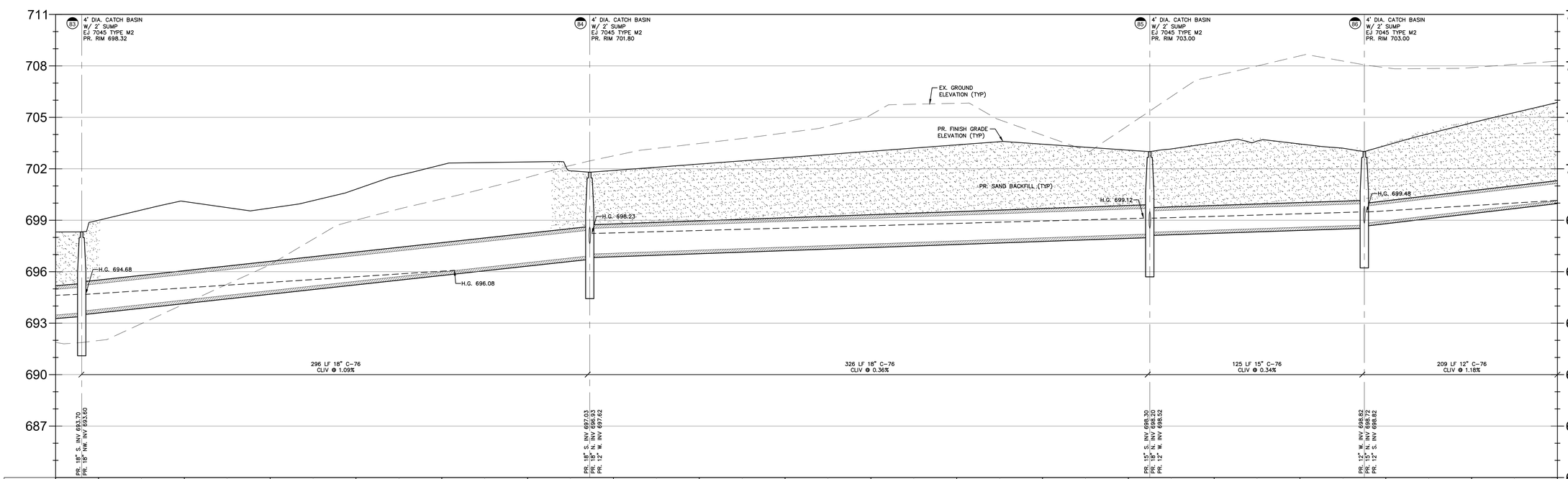
NFE JOB NO. M278-01

SHEET NO. SP 5.31





(Station 17+25.00 - 26+00.00)

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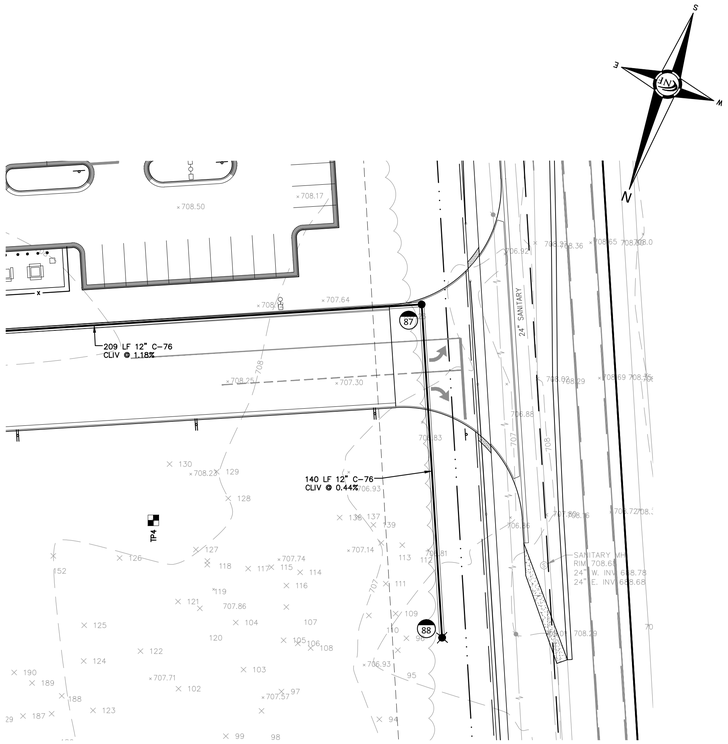
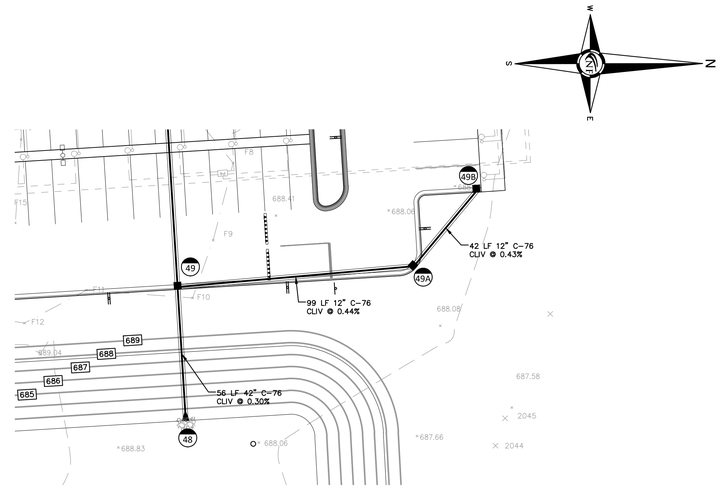
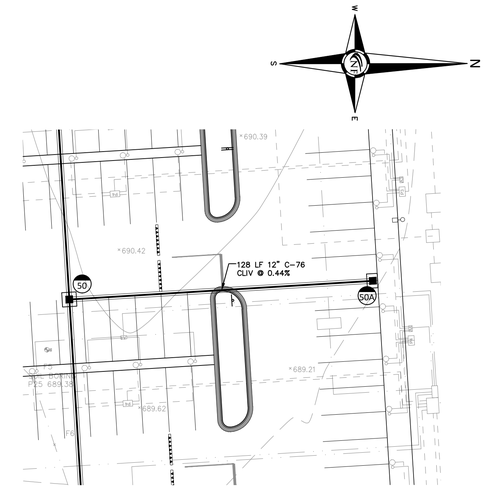
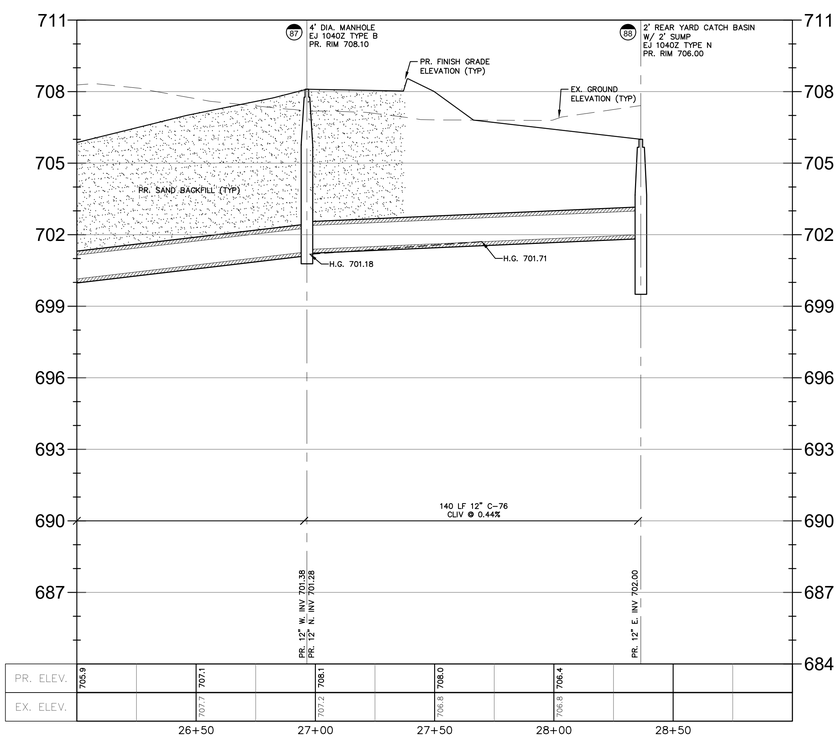
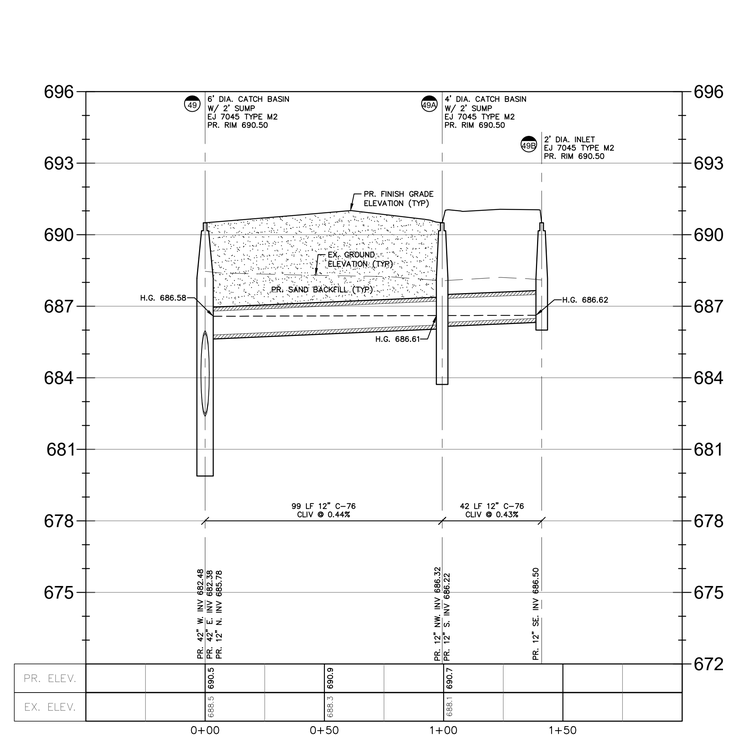




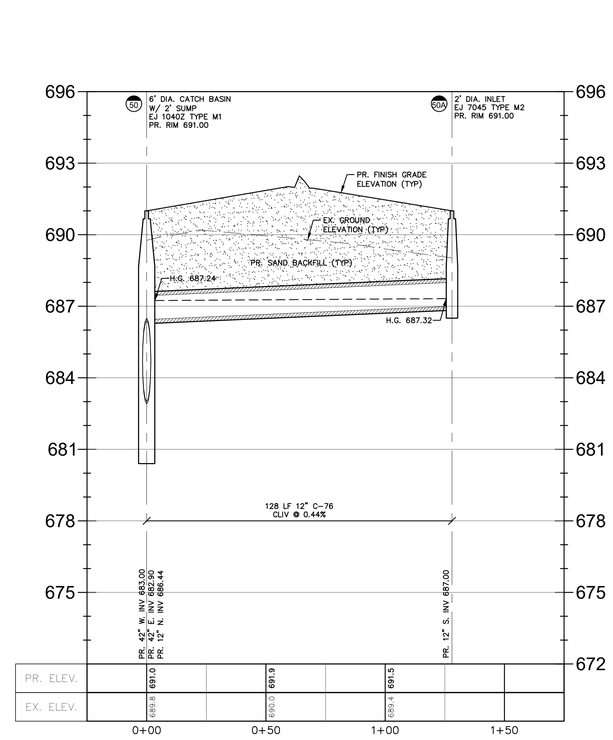




(Station 26+00.00 - 29+00.00)



(Station -0+50.00 - 2+00.00)



(Station -0+25.00 - 1+75.00)

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BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

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Contact:
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SHEET
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Plan

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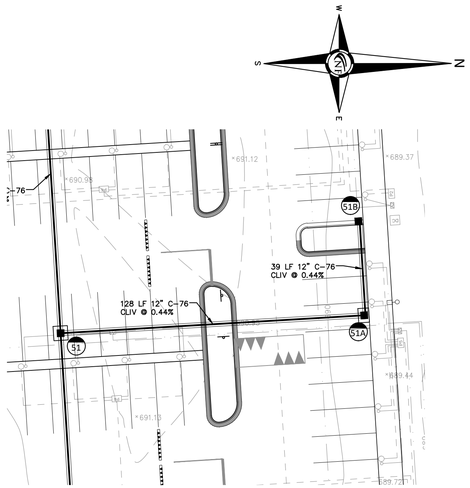
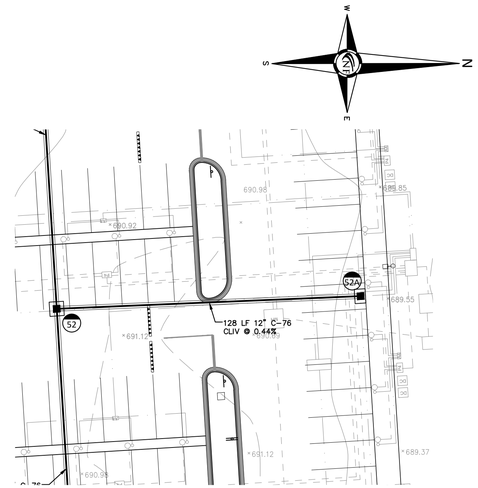
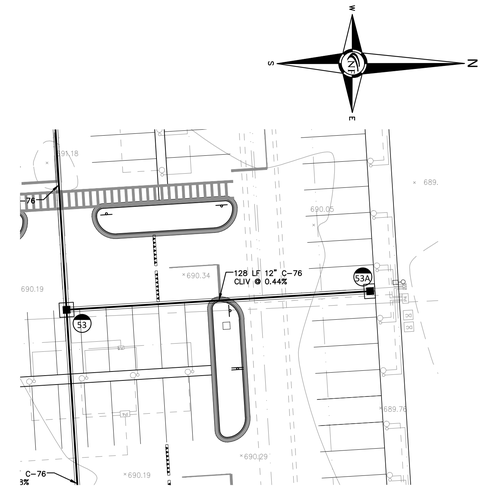
2022-01-07	ISSUED FOR ENGINEERING REVIEW

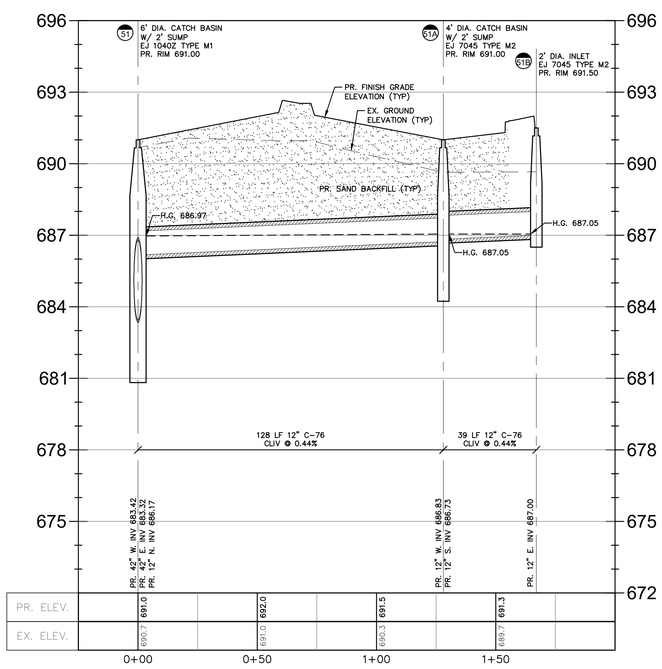
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
SHEET NO. SP 5.33

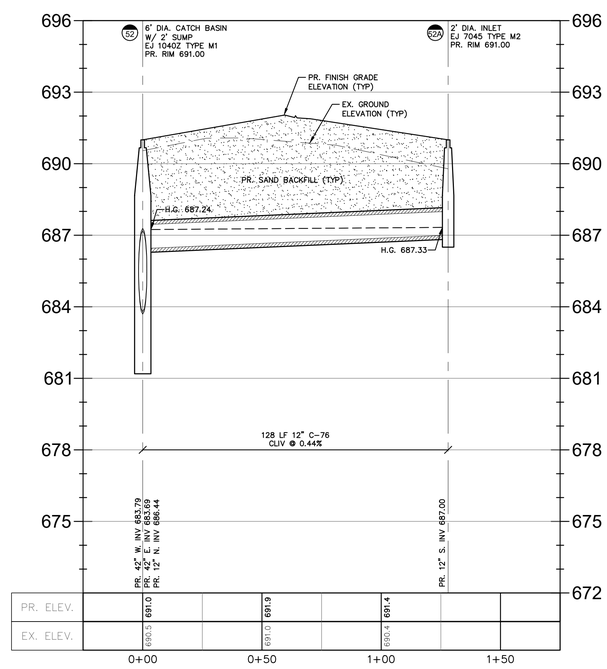




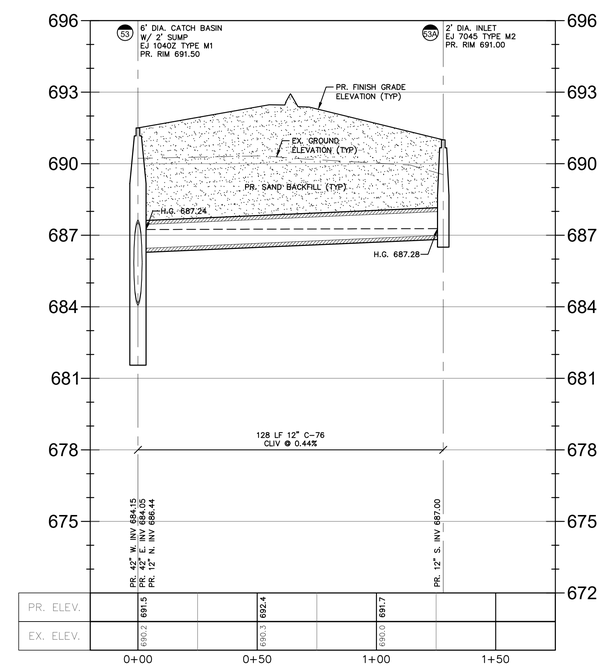




(Station -0+25.00 - 2+00.00)



(Station -0+25.00 - 1+75.00)



(Station -0+20.00 - 1+75.00)

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DRAWN BY:
J. Lawrey

DESIGNED BY:
B. Brickel

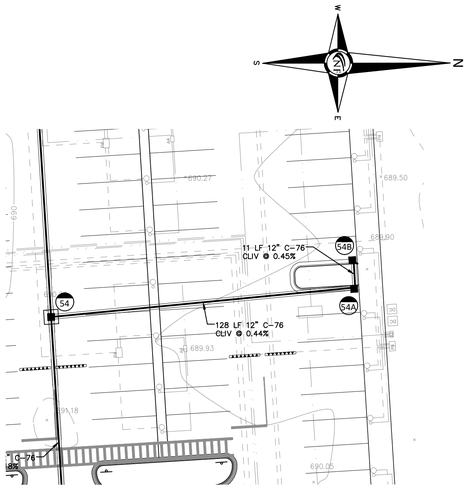
APPROVED BY:
B. Brickel

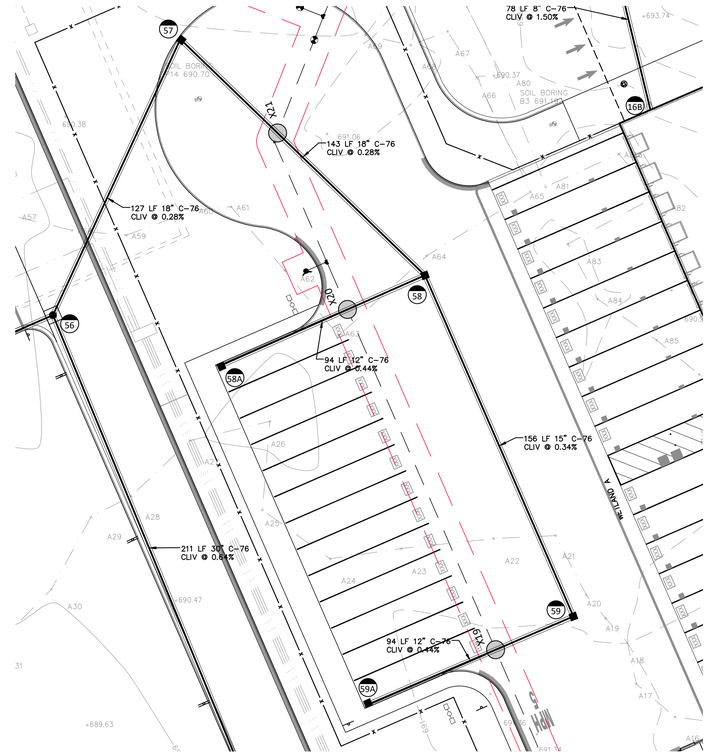
DATE:
September 24, 2021

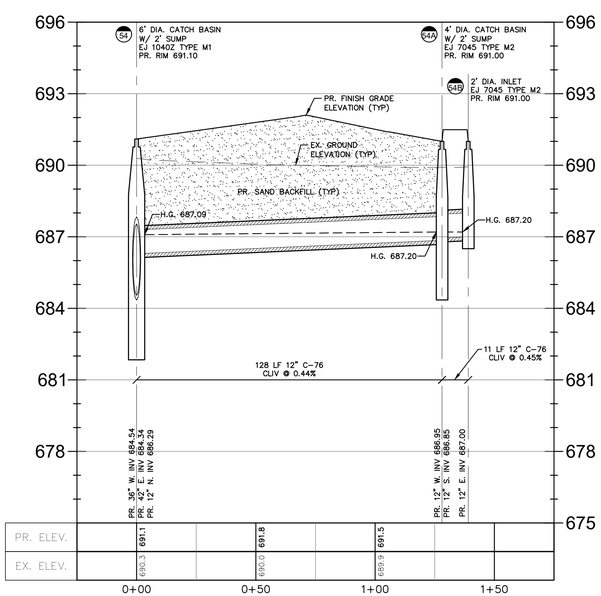
SCALE: 1" = 30' / 1"=3'
30 15 0 15 30 45

NFE JOB NO. M278-01

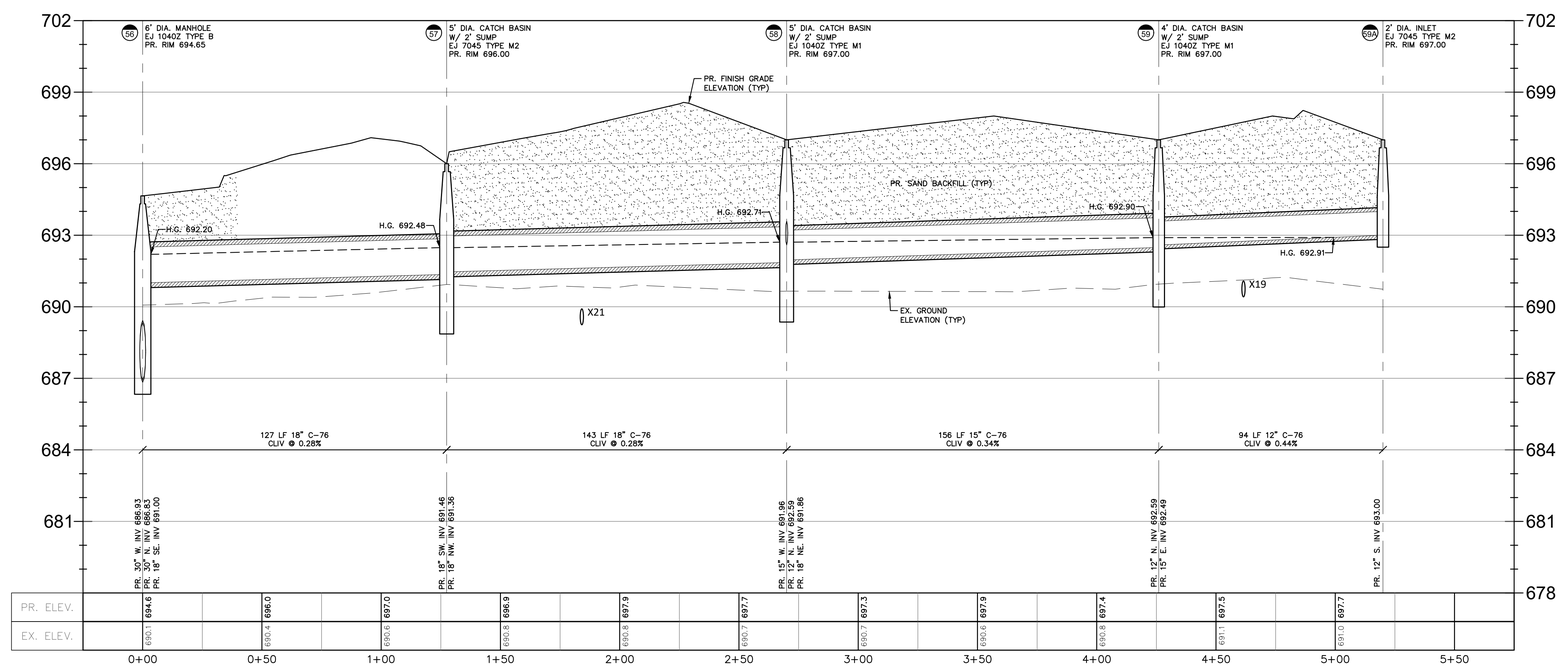
SHEET NO. SP 5.34







(Station -0+25.00 - 1+75.00)



(Station -0+25.00 - 5+75.00)

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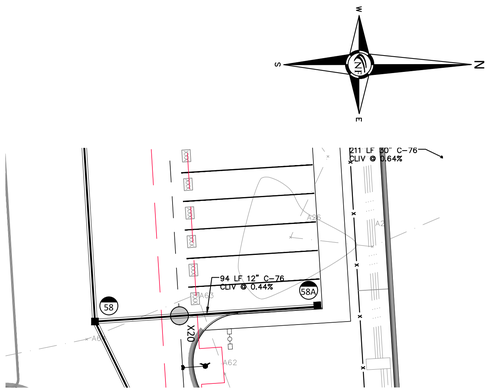
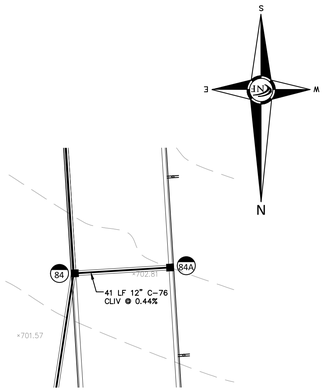
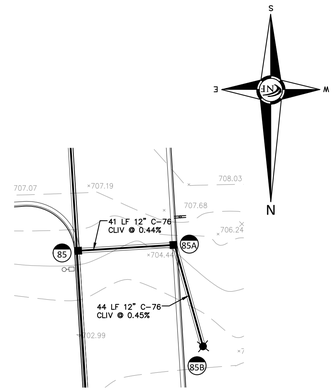
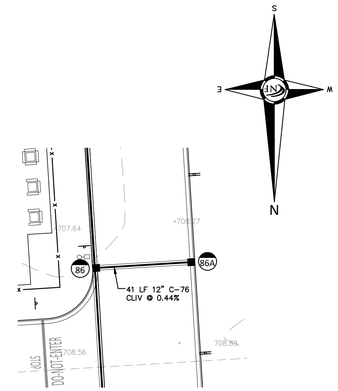
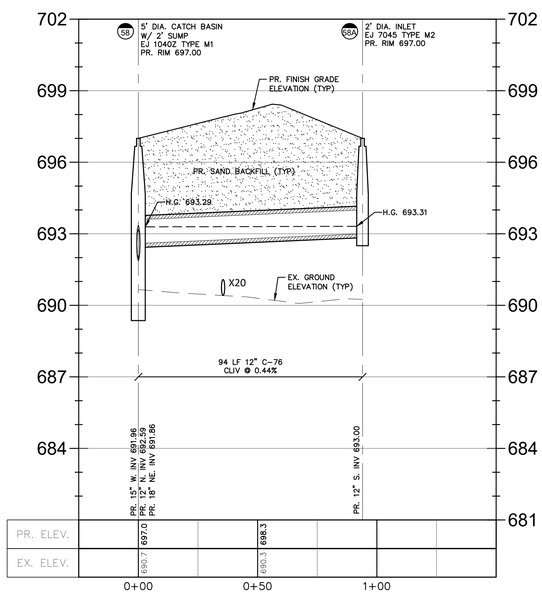
NFE JOB NO. M278-01
SHEET NO. SP 5.35



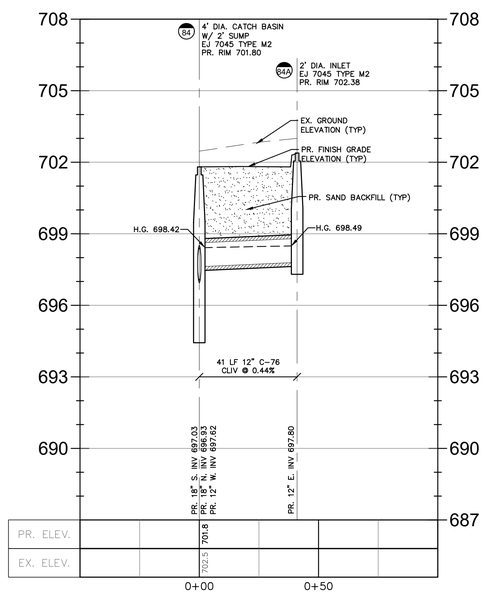








(Station -0+25.00 - 1+50.00)



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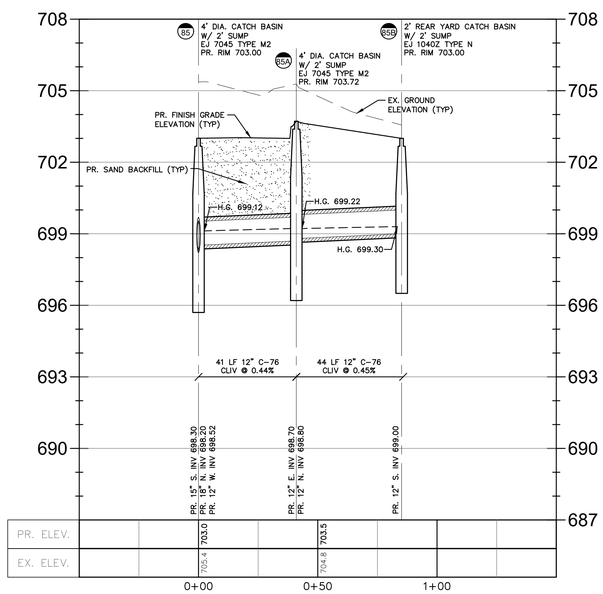
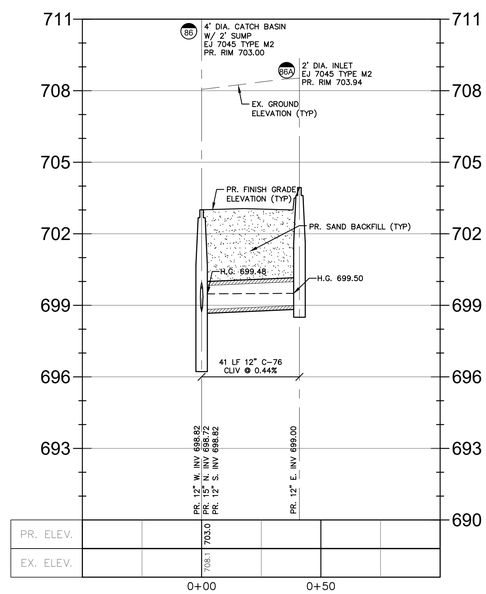


(Station -0+50.00 - 1+50.00)



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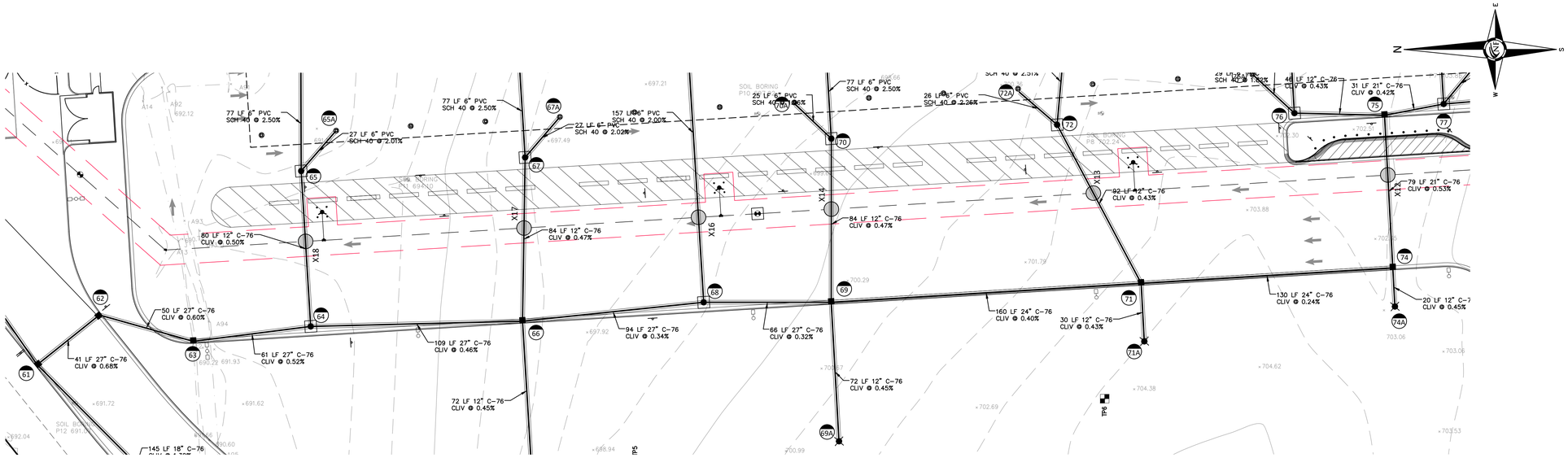
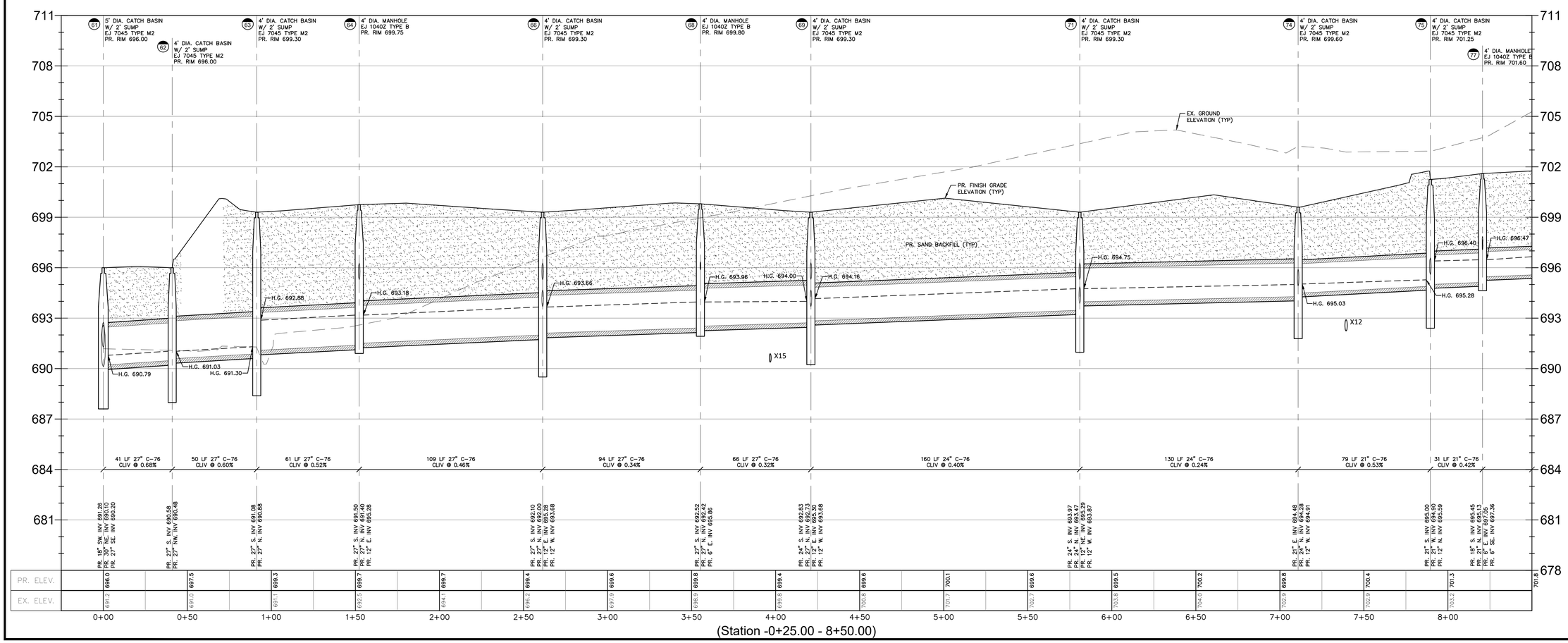
NFE JOB NO. M278-01
SHEET NO. SP 5.36





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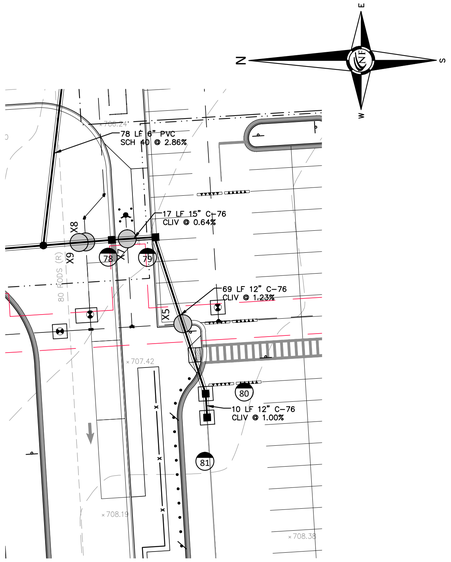
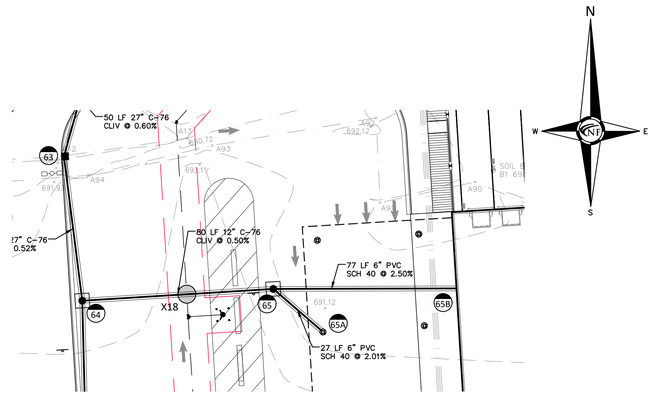
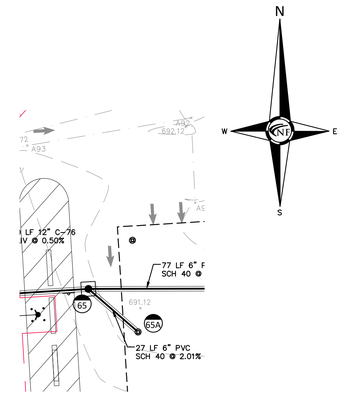
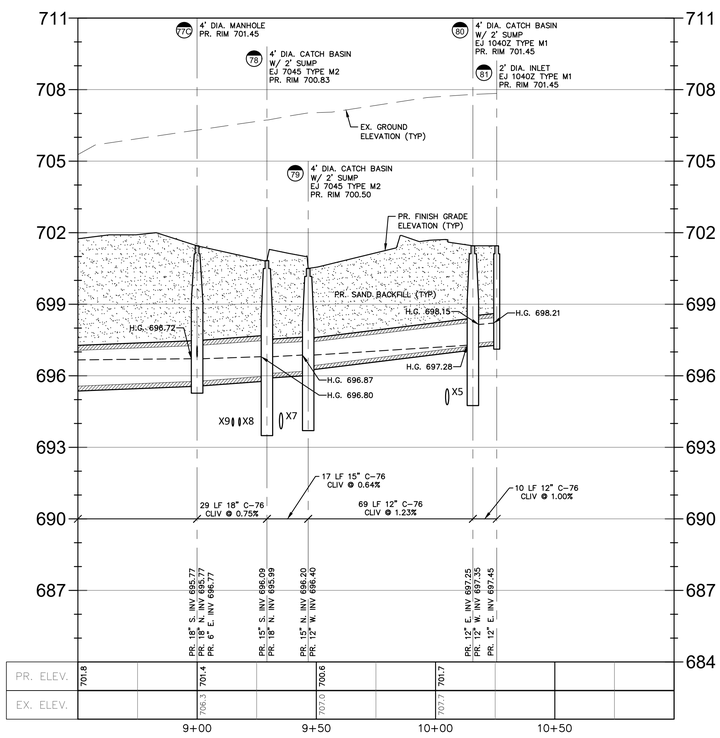
SHEET NO. SP 5.37

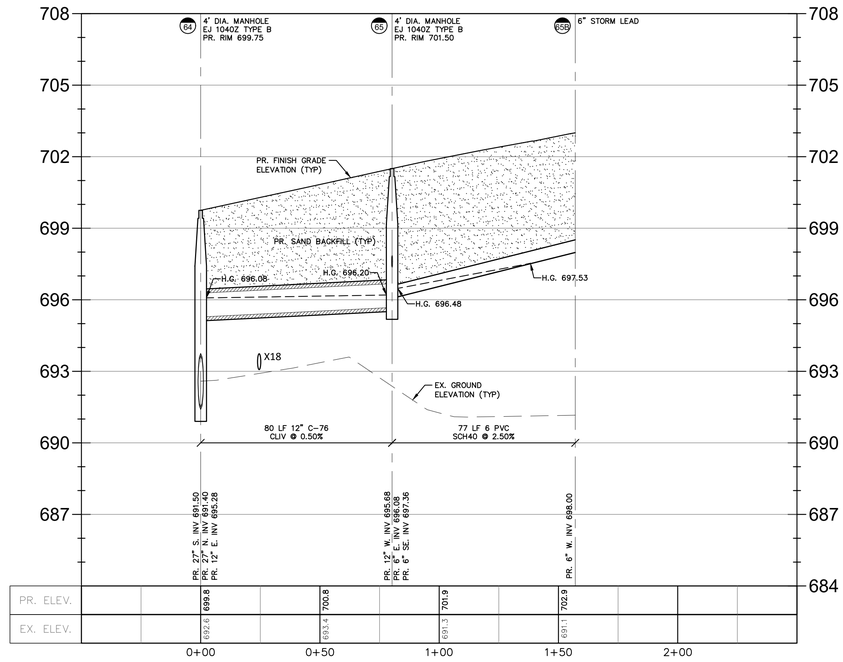




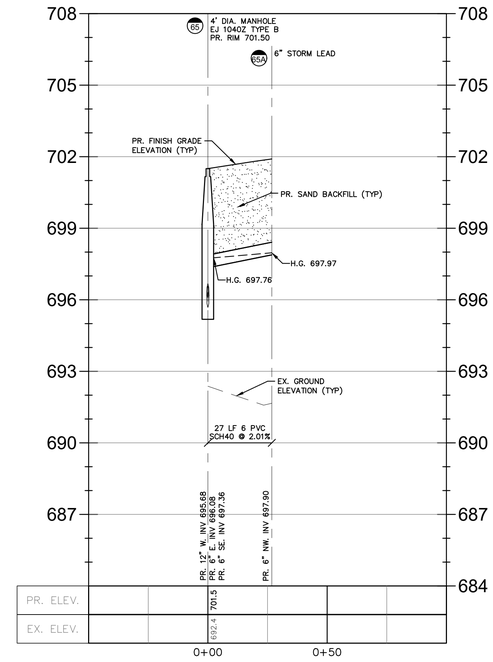




(Station 8+50.00 - 11+00.00)



(Station -0+50.00 - 2+50.00)



(Station -0+50.00 - 1+00.00)

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APPROVED BY:
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DATE:
September 24, 2021

SCALE: 1" = 30' / 1"=3'
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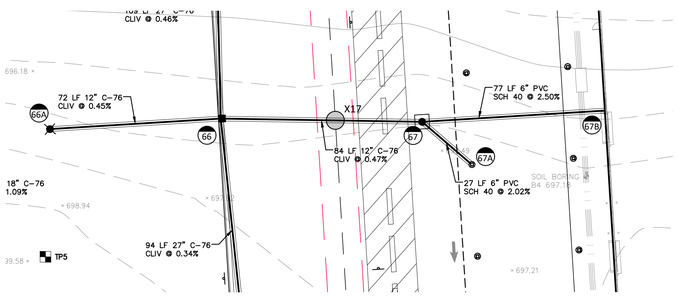
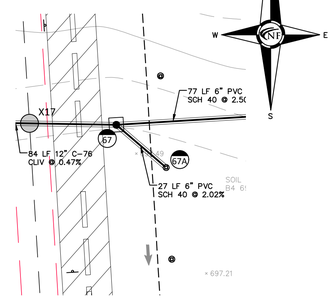
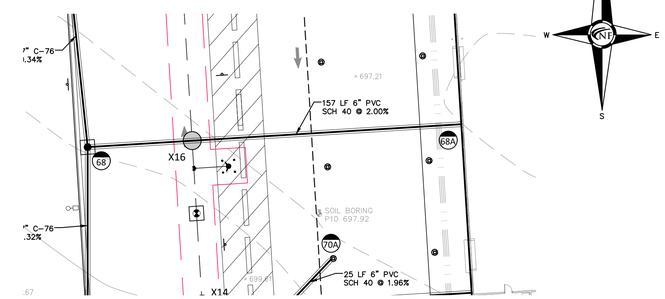
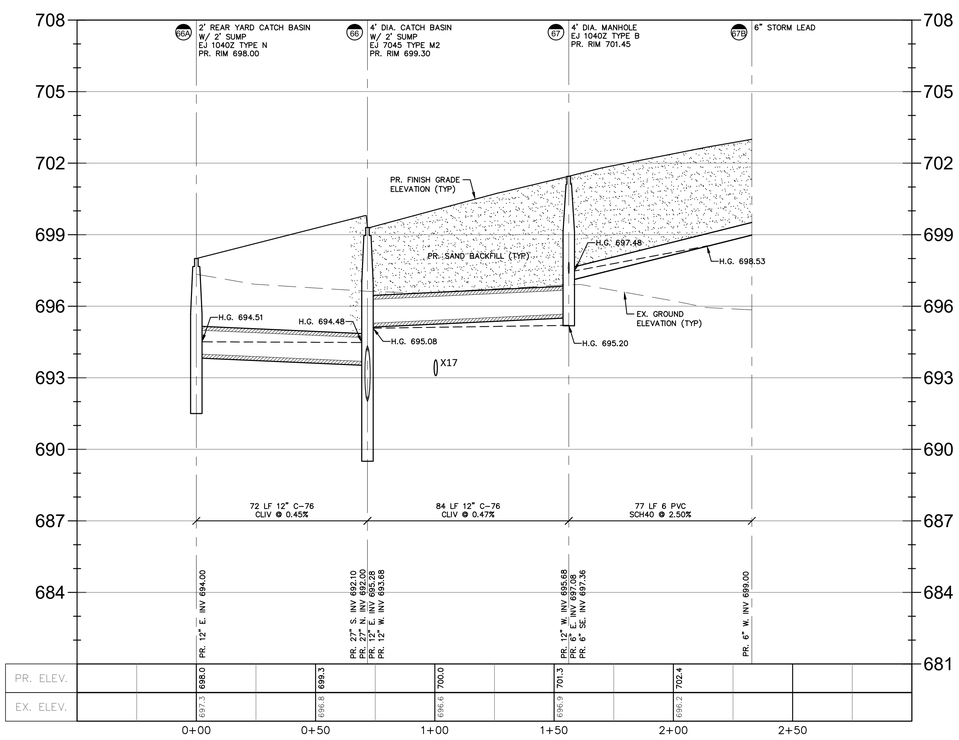
NFE JOB NO. **M278-01**

SHEET NO. **SP 5.38**









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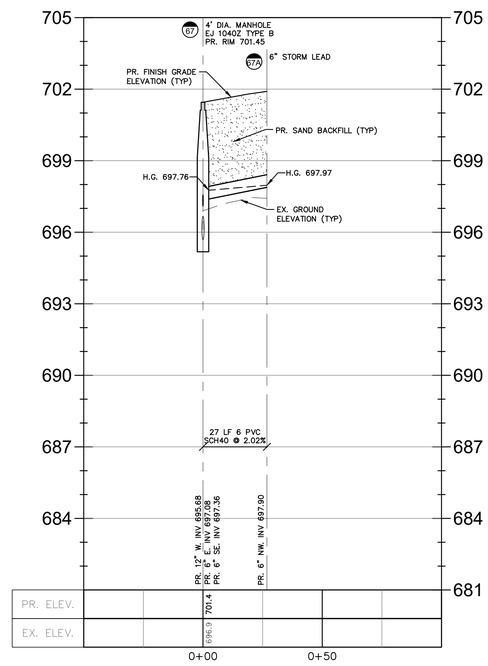

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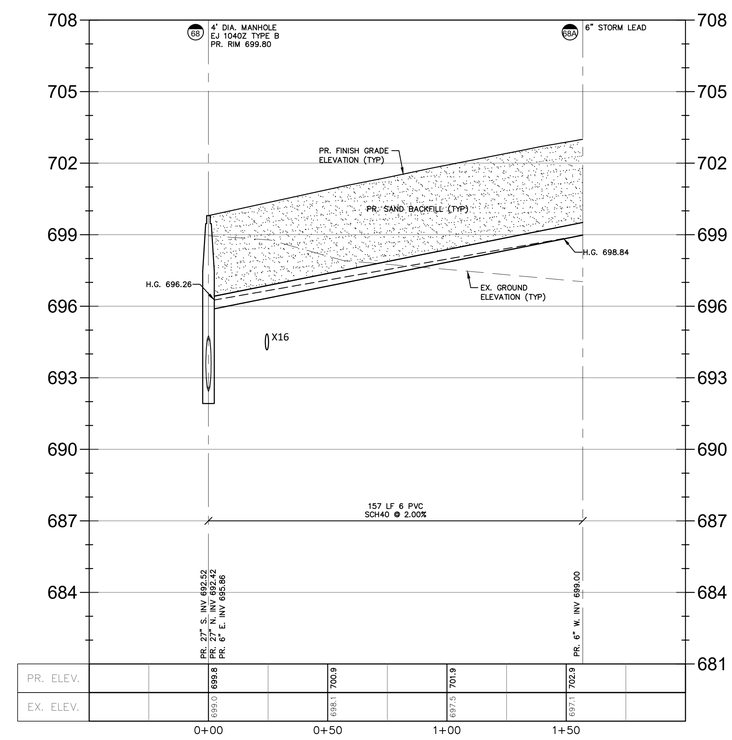

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WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Storm Drainage Profile
Plan

811
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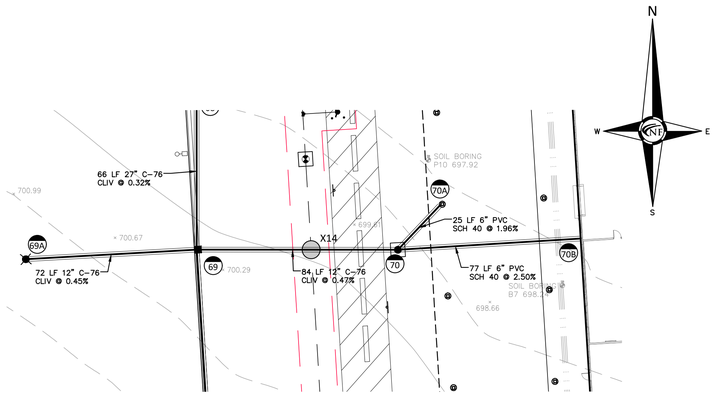
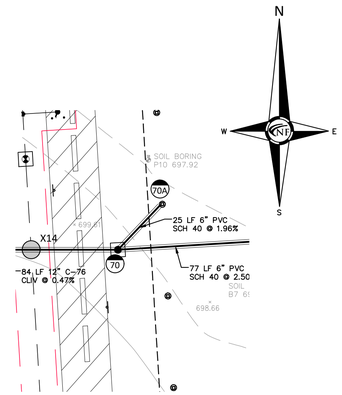
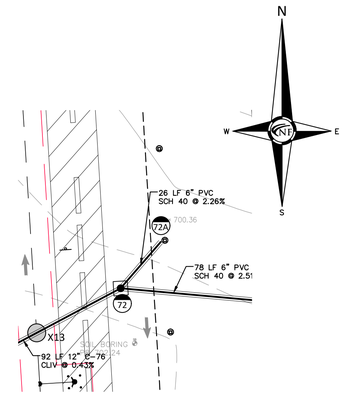
2022-01-07	ISSUED FOR ENGINEERING REVIEW

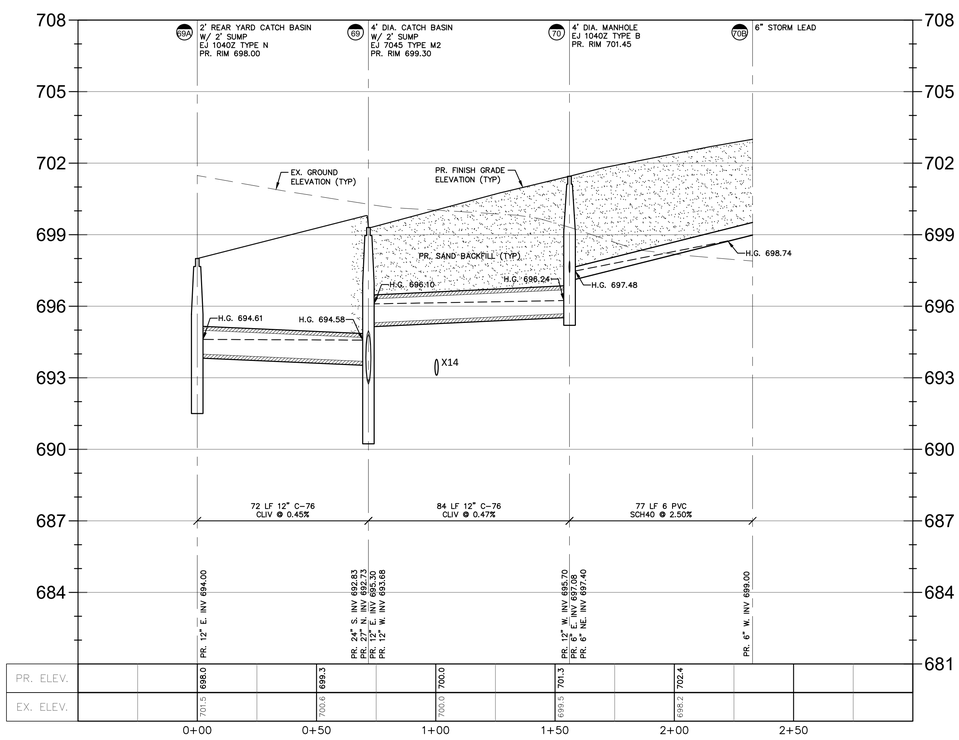
DRAWN BY:
J. Lawrey
DESIGNED BY:
B. Brickel
APPROVED BY:
B. Brickel
DATE:
September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
SHEET NO. SP 5.39









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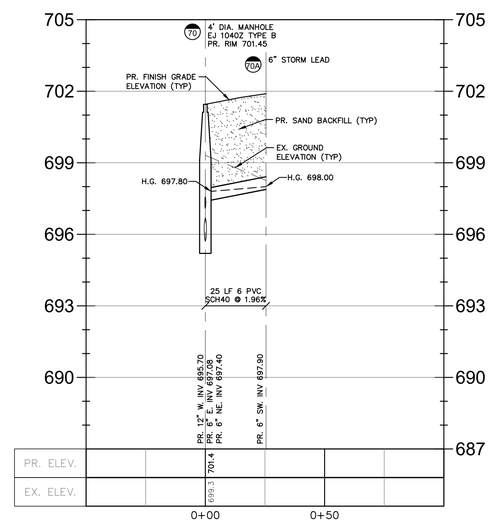

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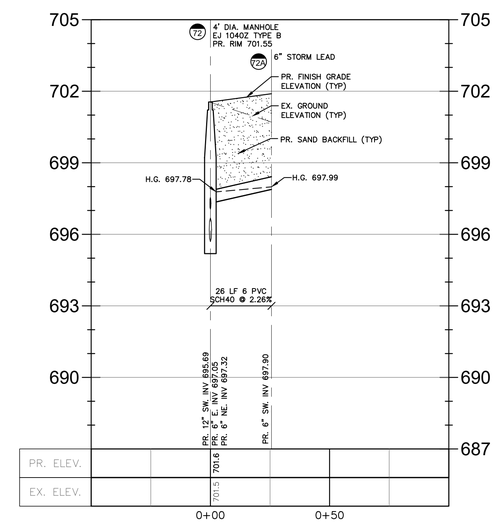

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SEAL

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PROJECT
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Plan

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DRAWN BY:
J. Lawrey

DESIGNED BY:
B. Brickel

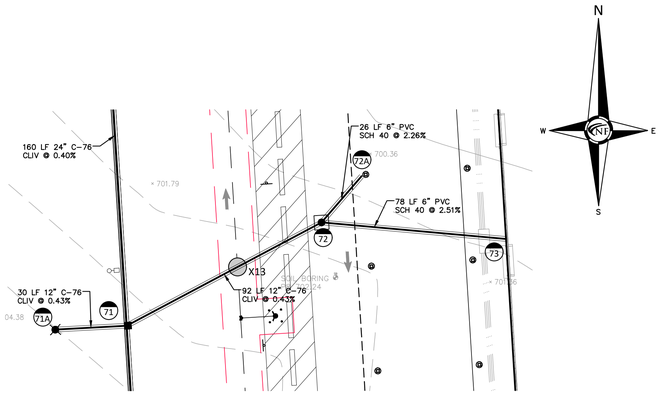
APPROVED BY:
B. Brickel

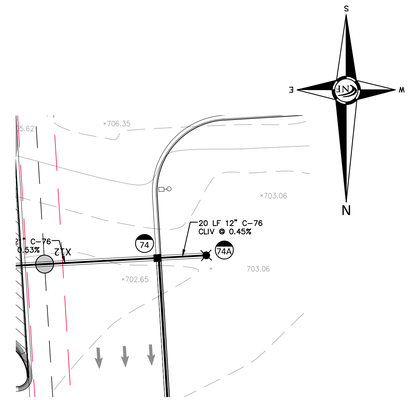
DATE:
September 24, 2021

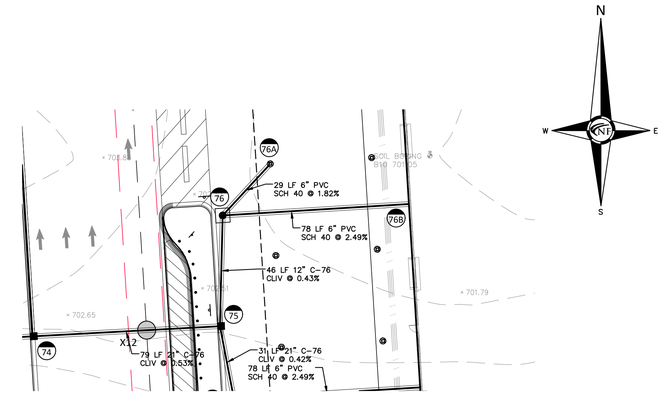
SCALE: 1" = 30' / 1"=3'
30 15 0 15 30 45

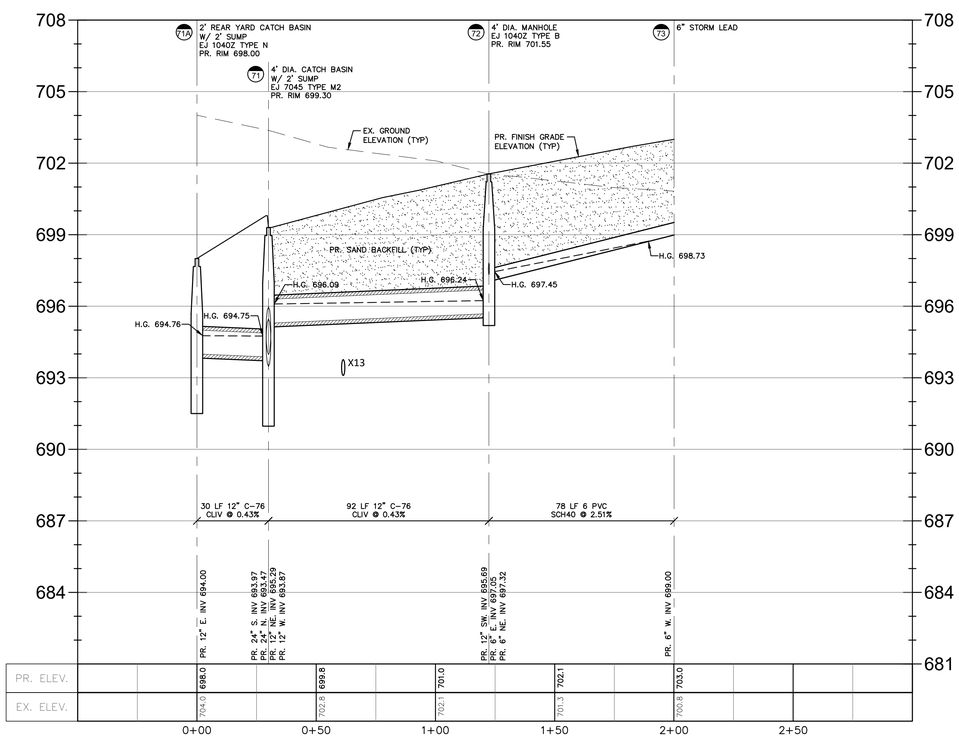
NFE JOB NO. **M278-01**

SHEET NO. **SP 5.40**









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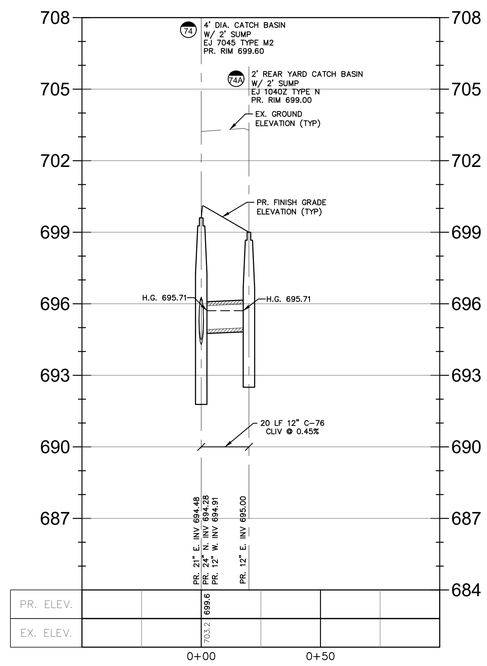

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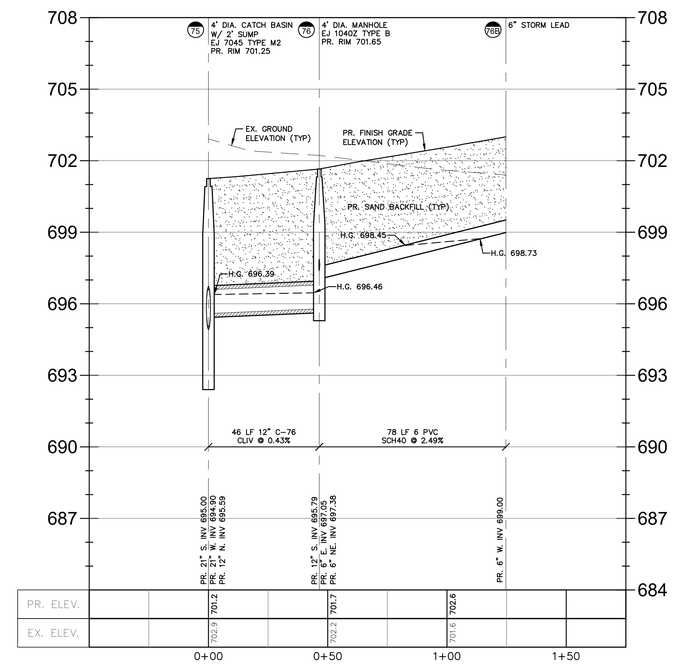

(Station -0+50.00 - 1+75.00)

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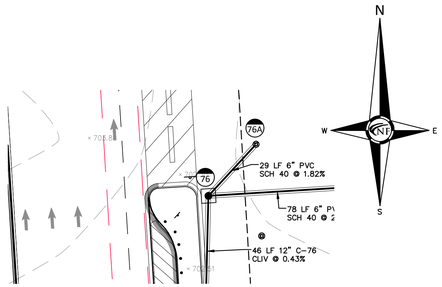
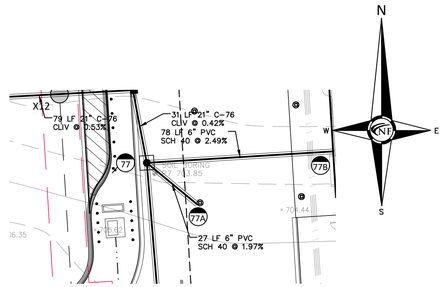
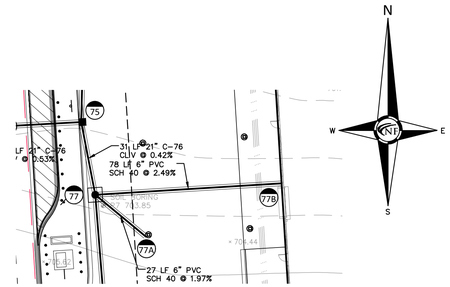
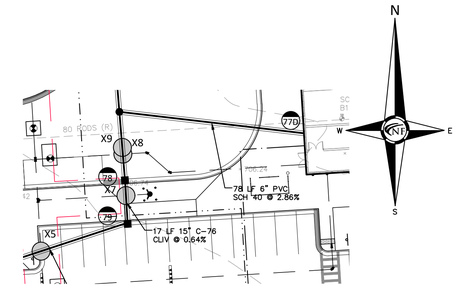
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30' / 1"=3'

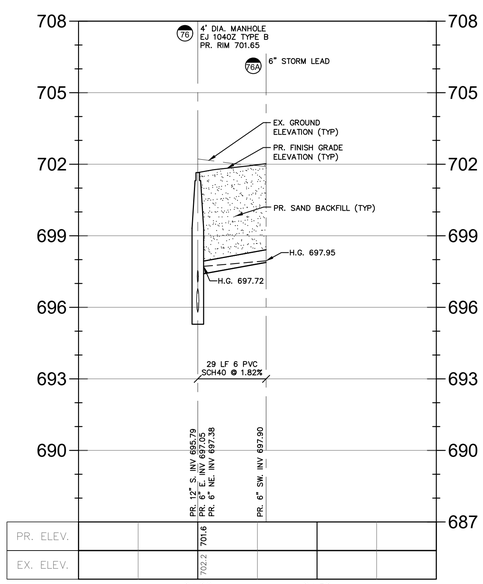
NFE JOB NO. M278-01
SHEET NO. SP 5.41











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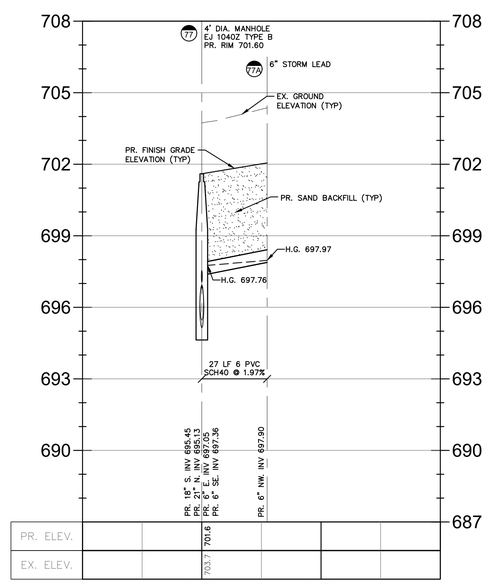

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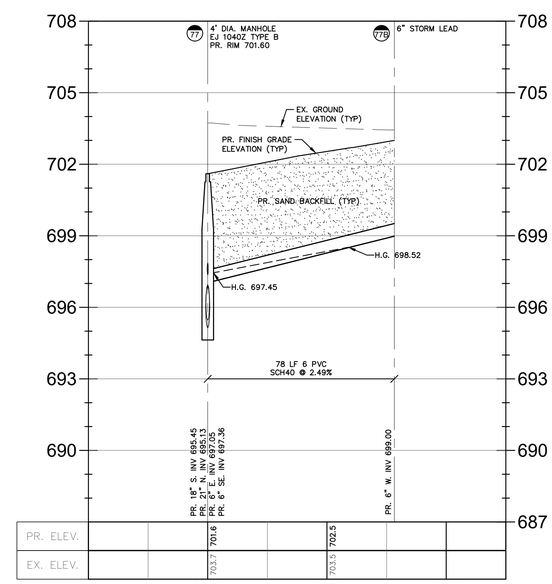

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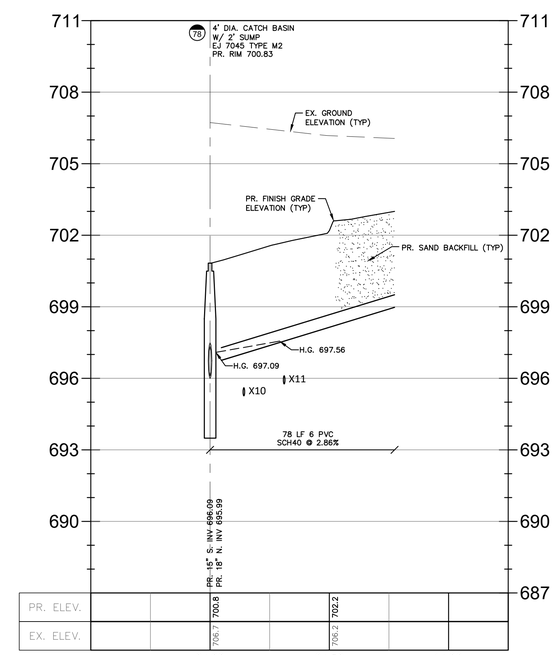

(Station -0+50.00 - 1+25.00)

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PROJECT
Project Yoga

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PROJECT LOCATION
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Township of Ypsilanti,
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SHEET
Storm Drainage Profile
Plan

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J. Lawrey
DESIGNED BY:
B. Brickel
APPROVED BY:
B. Brickel
DATE:
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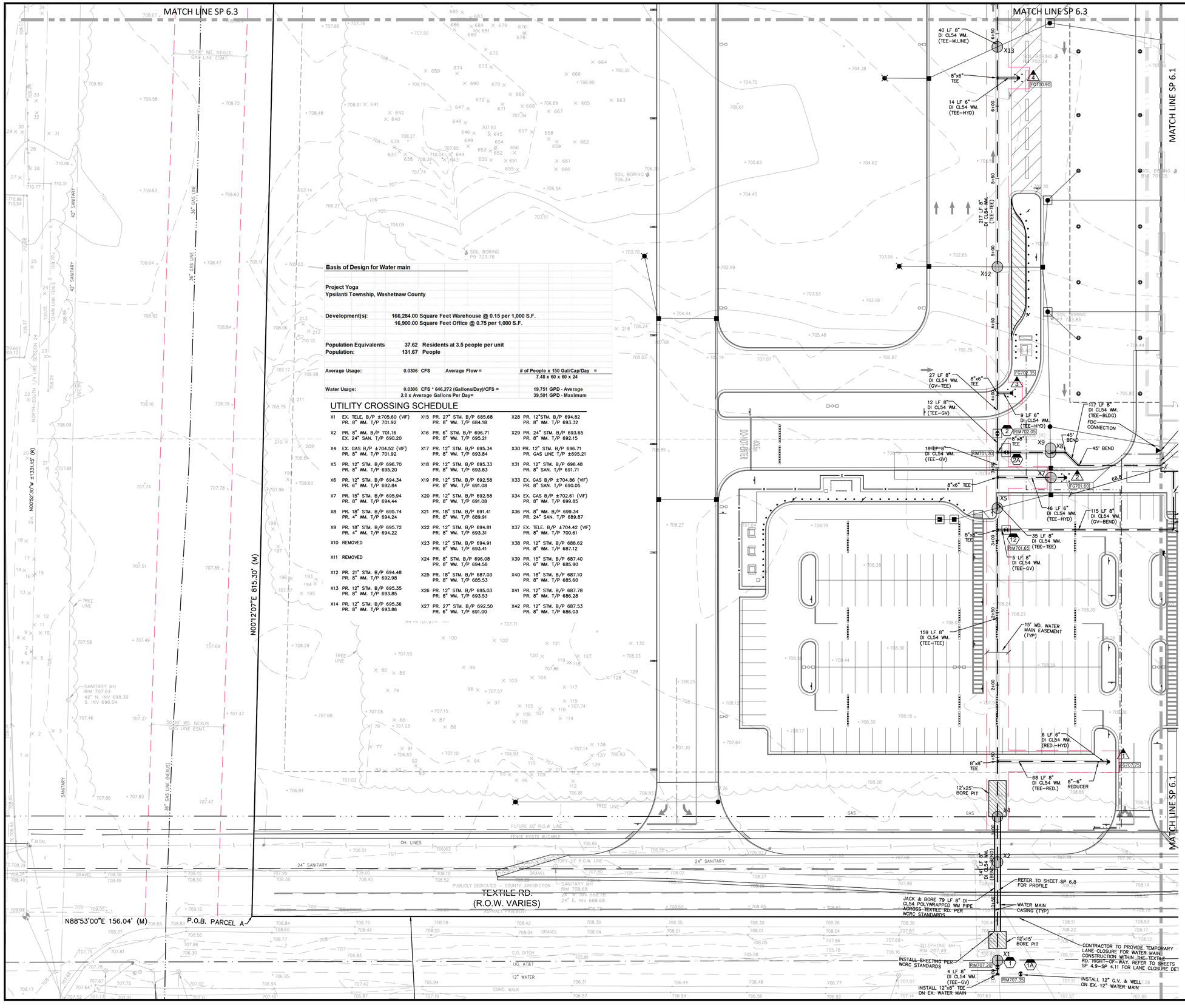
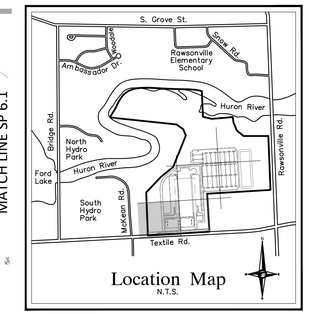
NFE JOB NO. M278-01
SHEET NO. SP 5.42





Water Main Structure Schedule	
Structure Name	Structure Details
#1 8" G.V. & WELL	PR. RIM 707.20
#1A INSTALL 12" G.V. & WELL ON EX. 12" WATER MAIN	PR. RIM 707.35
#2 8" G.V. & WELL	PR. RIM 702.05
#2A 8" G.V. & WELL	PR. RIM 701.60
#12 8" G.V. & WELL	PR. RIM 701.65

Water Main Hydrant Schedule	
Structure Name	Structure Details
#1	FG 707.75

NOTE

ALL IRRIGATION AND EV CONDUIT SHALL BE INSTALLED ABOVE ALL PROPOSED UTILITIES. NO CONFLICTS WILL OCCUR. THESE SHALL ALSO BE INSTALLED AFTER ALL OTHER UTILITIES ARE COMPLETED.

NOTES

REFER TO SHEETS SP 3.0–SP 3.9 FOR ADDITIONAL PROJECT NOTES & DIMENSIONS (TYP)

REFER TO SHEETS SP 4.0–SP 4.8 FOR DETAILED PAVING NOTES AND DETAILS (TYP)

REFER TO SHEETS SP 5.2–SP 5.16 FOR STORM DRAINAGE PLANS, NOTES, DETAILS AND CALUCATIONS (TYP)

ALL EXTERIOR BUILDING–MOUNTED AND GROUND–MOUNTED LIGHT FIXTURES SHALL BE DIRECTED DOWNWARD AND USE "FULLY SHIELD CUT OFF" FIXTURES TO CONCEAL THE LIGHT SOURCE FROM ADJOINING PROPERTIES.

ESTIMATED QUANTITIES - THIS SHEET

WATER MAIN

DESCRIPTION	QUANTITY	UNITS
4" D.I., CLASS 54, WATER MAIN	268	L.F.
6" D.I., CLASS 54, WATER MAIN	29	L.F.
8" D.I., CLASS 54, WATER MAIN	850	L.F.
8" D.I., CLASS 54, WM POLYWRAPED (JACK & BORE)	79	L.F.
6" HYDRANT ASSEMBLY	4	EA.
8" GATE VALVE & WELL	3	EA.
12" GATE VALVE & WELL	1	EA.
WATER MAIN CONNECTION	1	EA.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- UTILITY POLE, GUY POLE, GUY WIRE — EXISTING BURIED CABLES
- OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- SAND BACKFILL (95 % DENSITY)
- PROPOSED LIGHT POLE

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SHEET
Sanitary Sewer & Water Main Plan

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NFE JOB NO. M278-01
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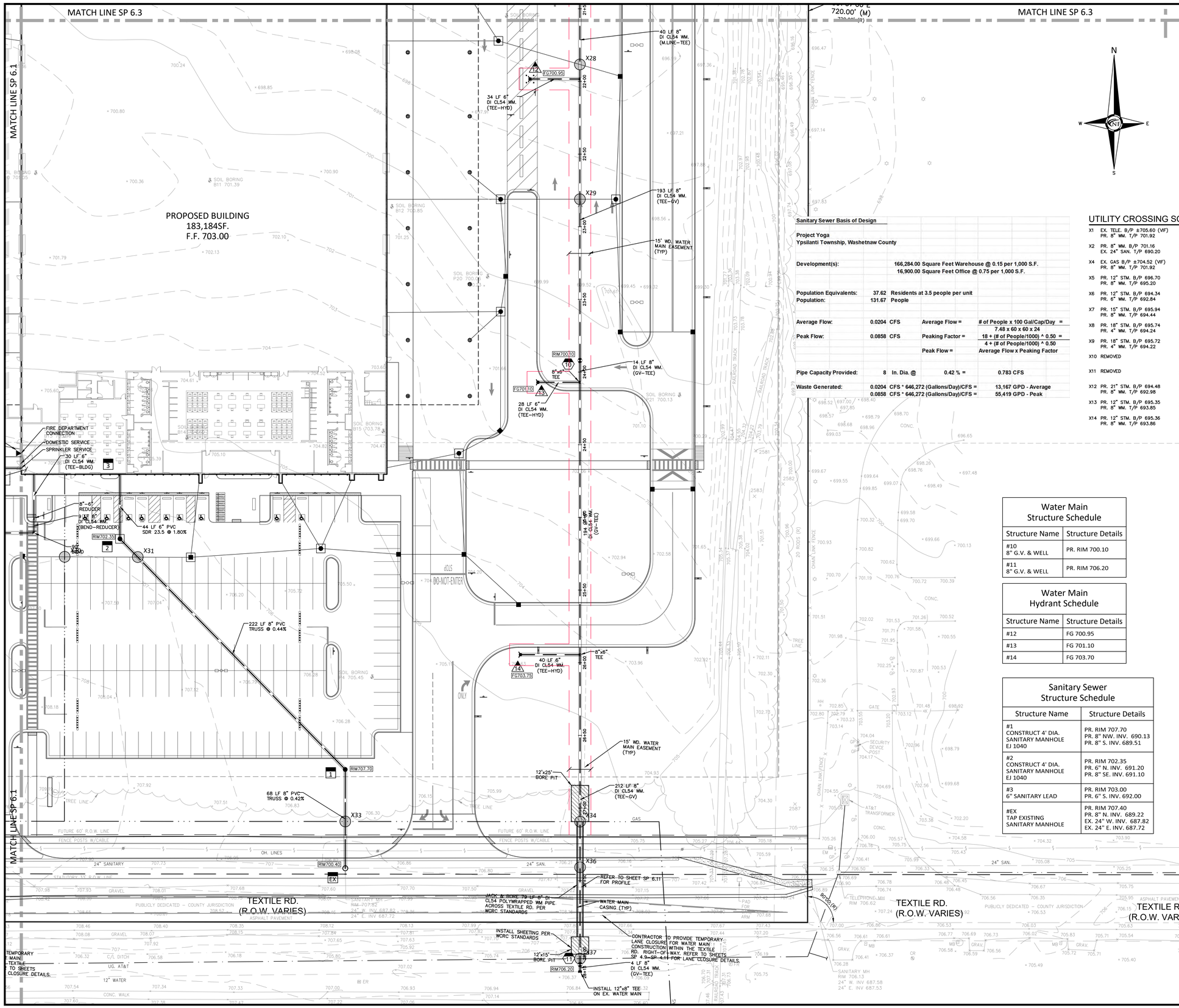

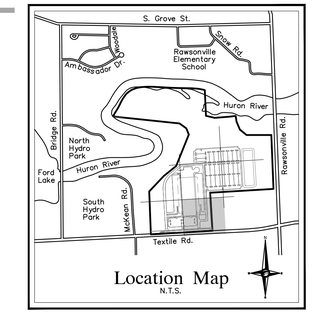

Sanitary Sewer Basis of Design

Project Yoga
Ypsilanti Township, Washetnaw County

Development(s):			166,284.00 Square Feet Warehouse @ 0.15 per 1,000 S.F.	
			16,900.00 Square Feet Office @ 0.75 per 1,000 S.F.	
Population Equivalents:	37.62	Residents at 3.5 people per unit		
Population:	131.67	People		
Average Flow:	0.0204	CFS	Average Flow =	# of People x 100 Gal/Cap/Day = 7.48 x 60 x 60 x 24
Peak Flow:	0.0858	CFS	Peaking Factor =	18 + (# of People/1000) ^ 0.50 = 4 + (# of People/1000) ^ 0.50
			Peak Flow =	Average Flow x Peaking Factor
Pipe Capacity Provided:	8	In. Dia. @	0.42 % =	0.783 CFS
Waste Generated:	0.0204	CFS * 646,272 (Gallons/Day)/CFS =		13,167 GPD - Average
	0.0858	CFS * 646,272 (Gallons/Day)/CFS =		55,419 GPD - Peak

UTILITY CROSSING SCHEDULE

X1 EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5 PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13 PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14 PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27 PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42 PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03

Water Main Structure Schedule

Structure Name	Structure Details
#10 8" G.V. & WELL	PR. RIM 700.10
#11 8" G.V. & WELL	PR. RIM 706.20

Water Main Hydrant Schedule

Structure Name	Structure Details
#12	FG 700.95
#13	FG 701.10
#14	FG 703.70

Sanitary Sewer Structure Schedule

Structure Name	Structure Details
#1 CONSTRUCT 4' DIA. SANITARY MANHOLE EJ 1040	PR. RIM 707.70 PR. 8" NW. INV. 690.13 PR. 8" S. INV. 689.51
#2 CONSTRUCT 4' DIA. SANITARY MANHOLE EJ 1040	PR. RIM 702.35 PR. 6" N. INV. 691.20 PR. 8" SE. INV. 691.10
#3 6" SANITARY LEAD	PR. RIM 703.00 PR. 6" S. INV. 692.00
#EX TAP EXISTING SANITARY MANHOLE	PR. RIM 707.40 PR. 8" N. INV. 689.22 EX. 24" W. INV. 687.82 EX. 24" E. INV. 687.72

NOTE

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NOTES

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ESTIMATED QUANTITIES - THIS SHEET

SANITARY SEWER

DESCRIPTION	QUANTITY	UNITS
6" PVC, SDR 23.5, SEWER PIPE	44	L.F.
8" PVC, TRUSS, SEWER PIPE	290	L.F.
TAP/CONNECTION	1	EA.

WATER MAIN

DESCRIPTION	QUANTITY	UNITS
6" D.I., CLASS 54, WATER MAIN	132	L.F.
8" D.I., CLASS 54, WATER MAIN	590	L.F.
8" D.I., CLASS 54, WM POLYWRAPED (JACK & BORE)	79	L.F.
6" HYDRANT ASSEMBLY	3	EA.
8" GATE VALVE & WELL	2	EA.
WATER MAIN CONNECTION	1	EA.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- SAND BACKFILL (95 % DENSITY)
- PROPOSED LIGHT POLE

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Project Yoga

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Seefried Industrial Properties
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Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

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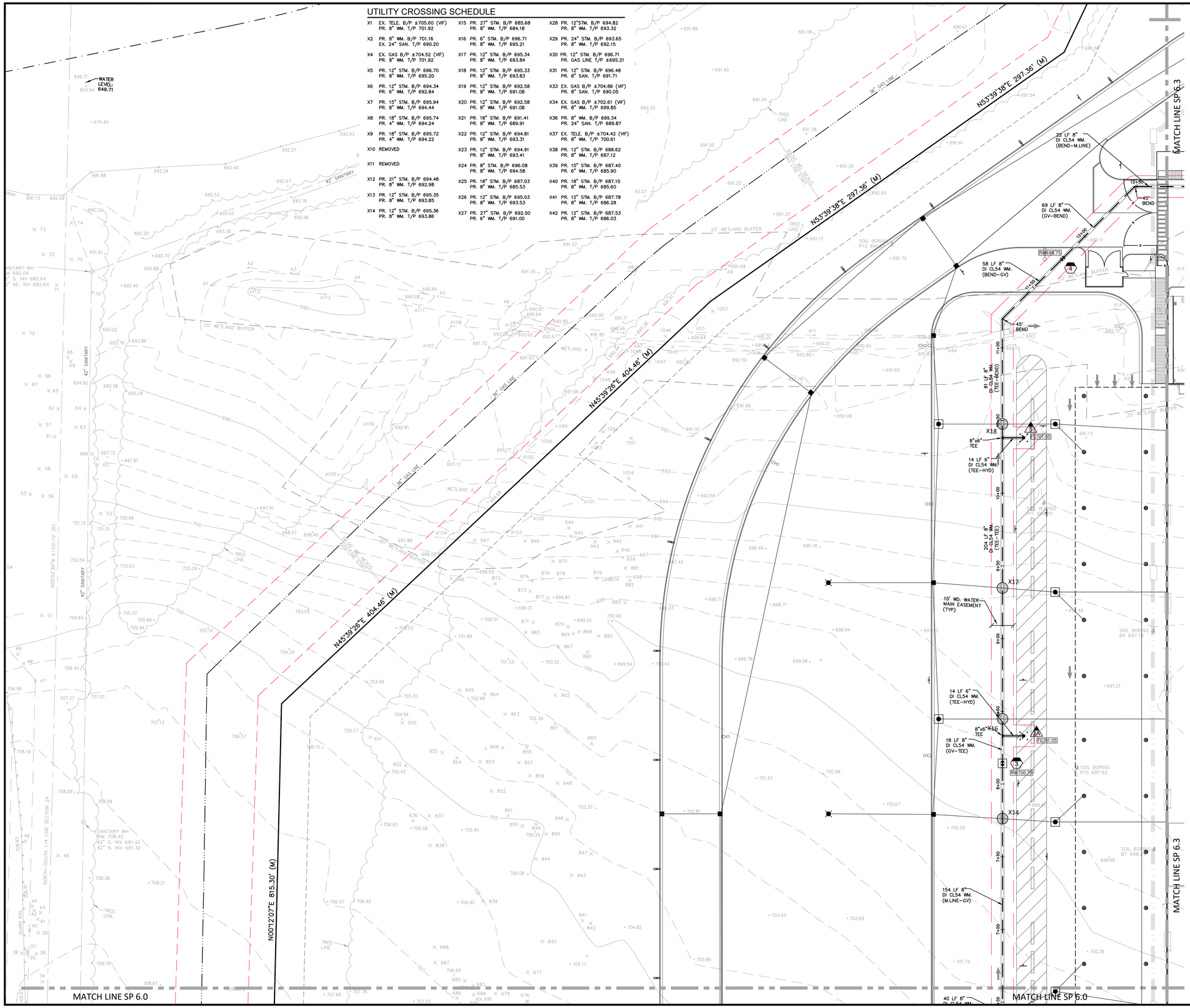
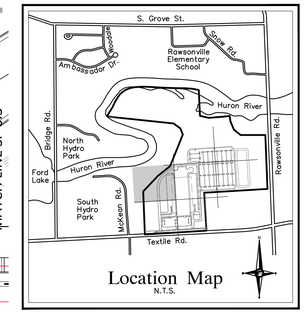
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. SP 6.1

UTILITY CROSSING SCHEDULE

X1 EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5 PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13 PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14 PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27 PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42 PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03





Water Main Structure Schedule

Structure Name	Structure Details
#3 8" G.V. & WELL	PR. RIM 700.70
#4 8" G.V. & WELL	PR. RIM 698.75

Water Main Hydrant Schedule

Structure Name	Structure Details
#4	FG 700.95
#5	FG 701.05

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ESTIMATED QUANTITIES - THIS SHEET

WATER MAIN

DESCRIPTION	QUANTITY	UNITS
6" D.I., CLASS 54, WATER MAIN	28	L.F.
8" D.I., CLASS 54, WATER MAIN	606	L.F.
6" HYDRANT ASSEMBLY	2	EA.
8" GATE VALVE & WELL	2	EA.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
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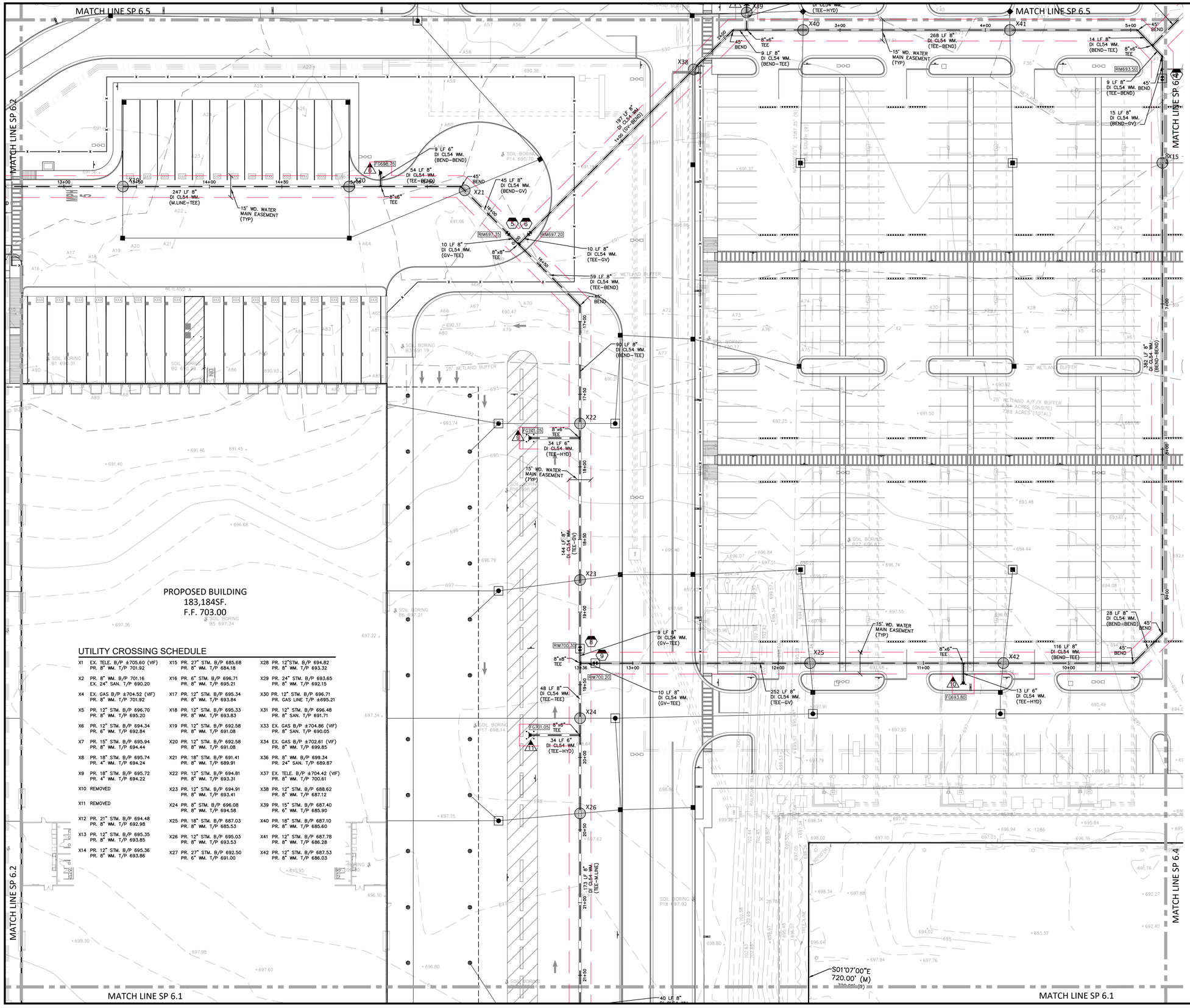
30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 6.2



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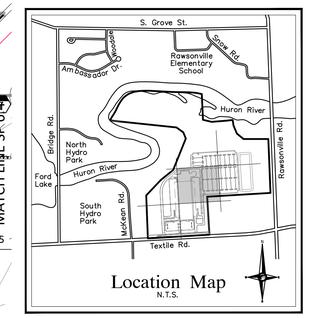
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5 PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13 PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14 PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27 PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42 PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03



Water Main Structure Schedule

Structure Name	Structure Details
#5 8" G.V. & WELL	PR. RIM 697.35
#6 8" G.V. & WELL	PR. RIM 697.20
#8 8" G.V. & WELL	PR. RIM 700.30
#9 8" G.V. & WELL	PR. RIM 700.20

Water Main Hydrant Schedule

Structure Name	Structure Details
#6	FG 698.75
#9	FG 701.10
#10	FG 693.85
#11	FG 701.05

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ESTIMATED QUANTITIES - THIS SHEET

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6" D.I., CLASS 54, WATER MAIN	90	L.F.
8" D.I., CLASS 54, WATER MAIN	2,189	L.F.
6" HYDRANT ASSEMBLY	4	EA.
8" GATE VALVE & WELL	5	EA.

LEGEND

- MANHOLE
- HYDRANT
- GATE VALVE
- MANHOLE
- CATCH BASIN
- UTILITY POLE
- GUY POLE
- GUY WIRE
- C.O.
- MANHOLE
- HYDRANT
- GATE VALVE
- INLET
- C.B.
- MANHOLE

EXISTING SANITARY SEWER
SAN. CLEAN OUT
EXISTING WATER MAIN
EXISTING STORM SEWER
EX. R. Y. CATCH BASIN
EXISTING BURIED CABLES
OVERHEAD LINES
LIGHT POLE
SIGN
EXISTING GAS MAIN
PR. SANITARY SEWER
PR. WATER MAIN
PR. STORM SEWER
PR. R. Y. CATCH BASIN
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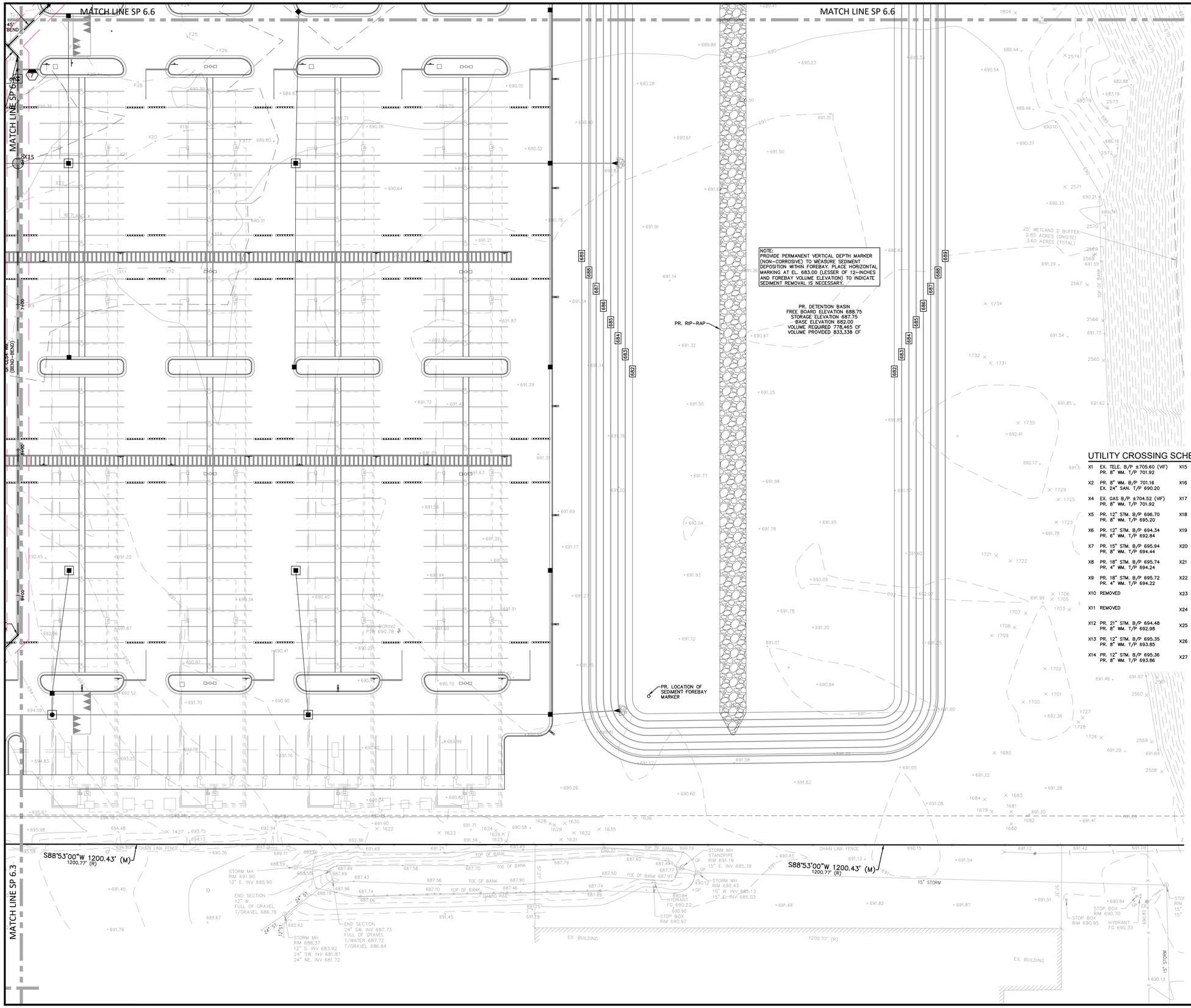

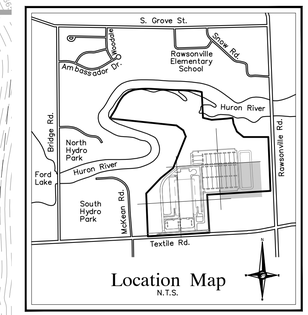

UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15	PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28	PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2	PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16	PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29	PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4	EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17	PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30	PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18	PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31	PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33	EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34	EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21	PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36	PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9	PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22	PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37	EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10	REMOVED	X23	PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38	PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11	REMOVED	X24	PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39	PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12	PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25	PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40	PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26	PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41	PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14	PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27	PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42	PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03

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- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- EXISTING BURIED CABLES
- UTILITY POLE, GUY POLE, GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- SAND BACKFILL (95 % DENSITY)
- PROPOSED LIGHT POLE

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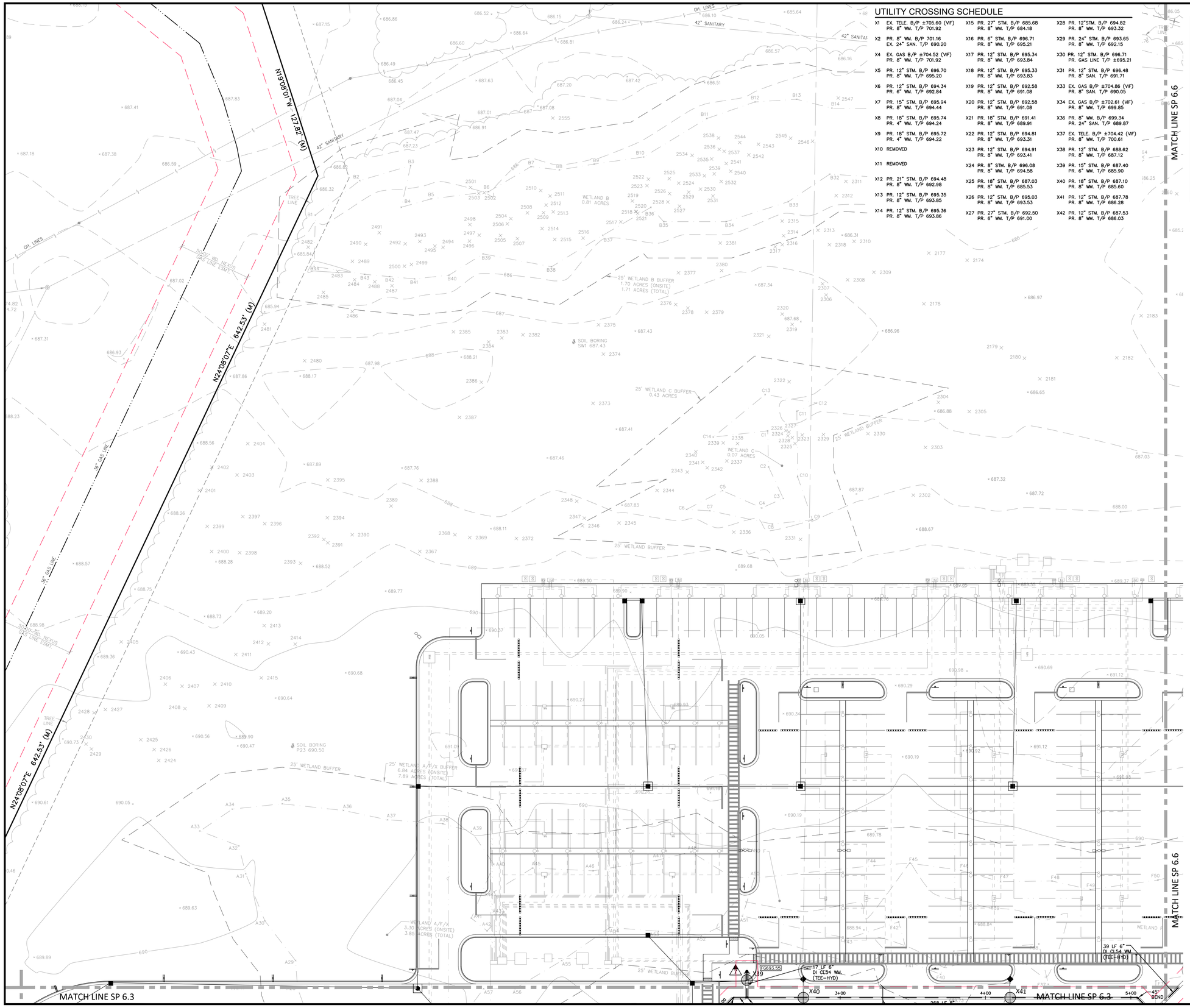
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 6.4



UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2	PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4	EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9	PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
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X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
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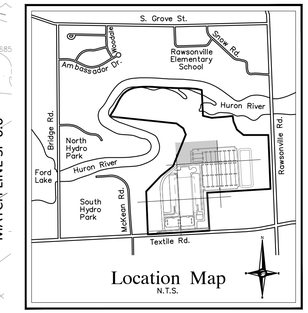

Water Main Hydrant Schedule

Structure Name	Structure Details
#7	FG 693.55

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6" D.I., CLASS 54, WATER MAIN	17	L.F.
6" HYDRANT ASSEMBLY	1	EA.

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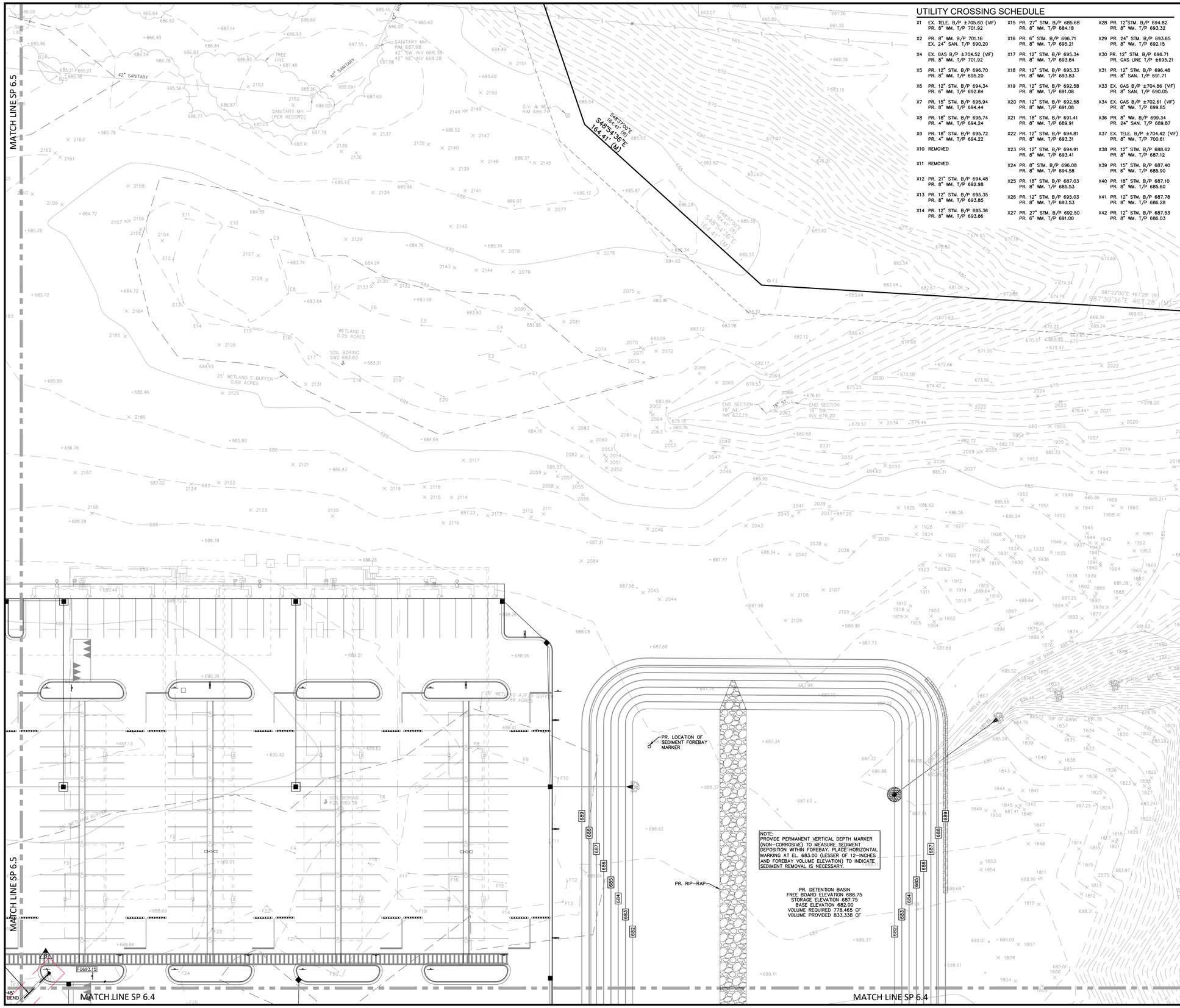

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X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
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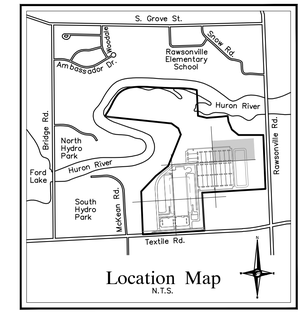
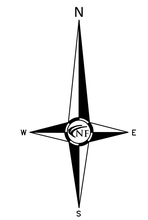


Location Map
N.T.S.



Water Main Hydrant Schedule	
Structure Name	Structure Details
#8	FG 692.65

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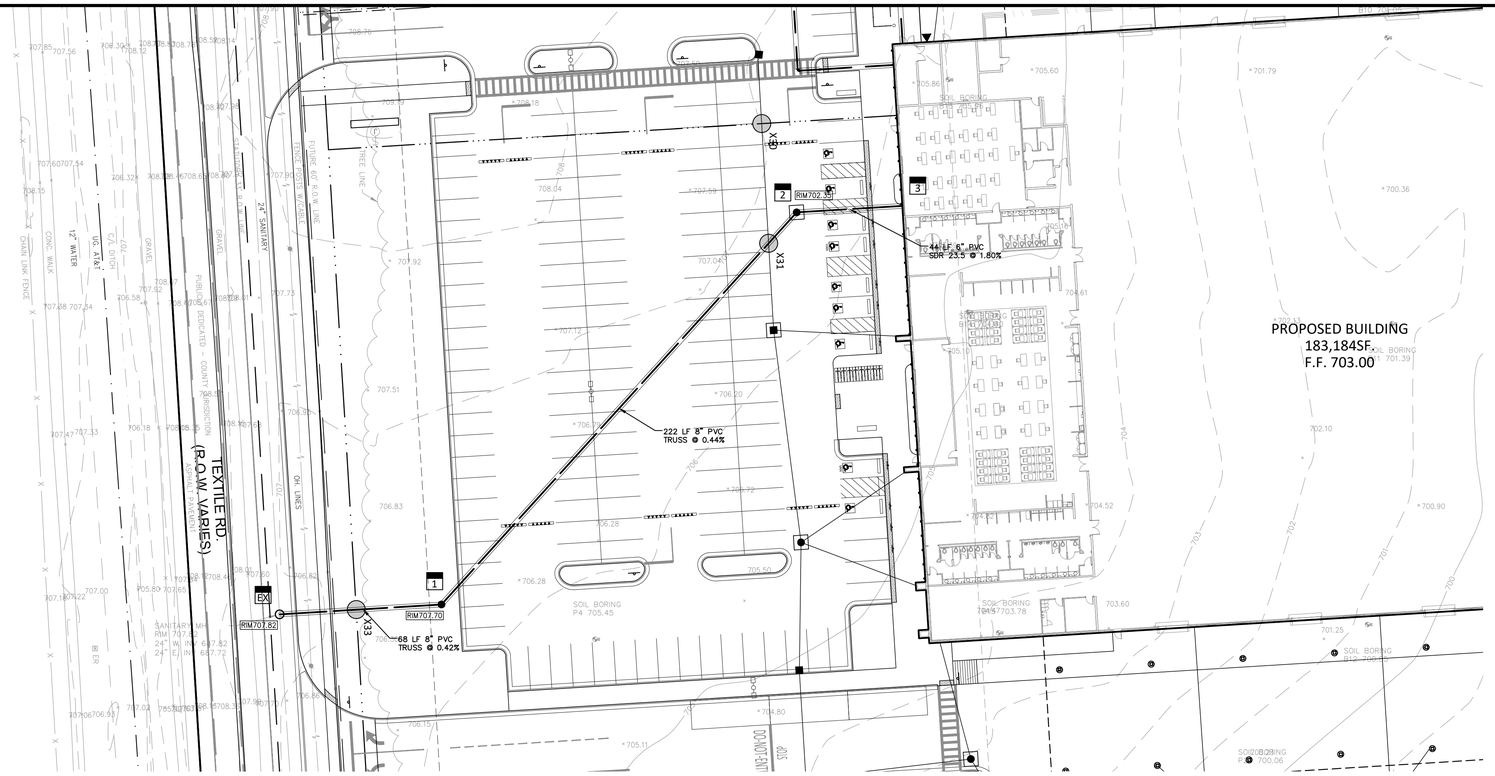

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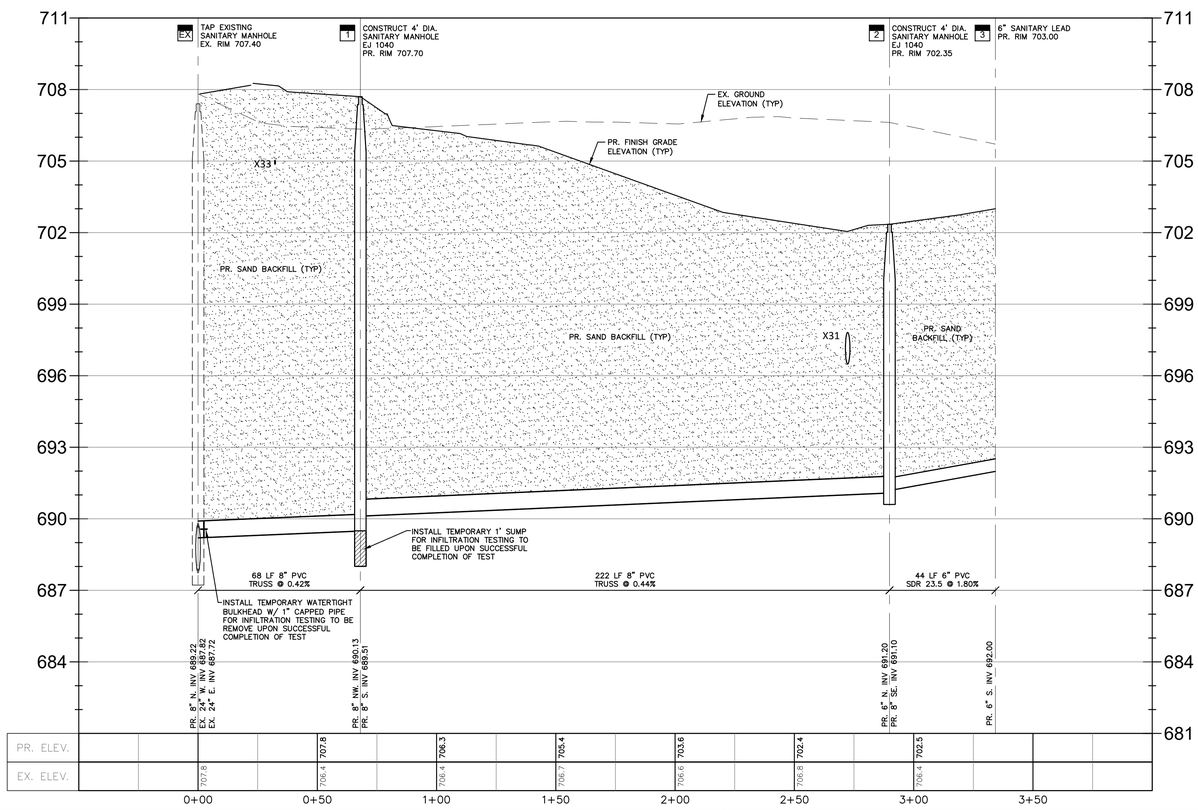

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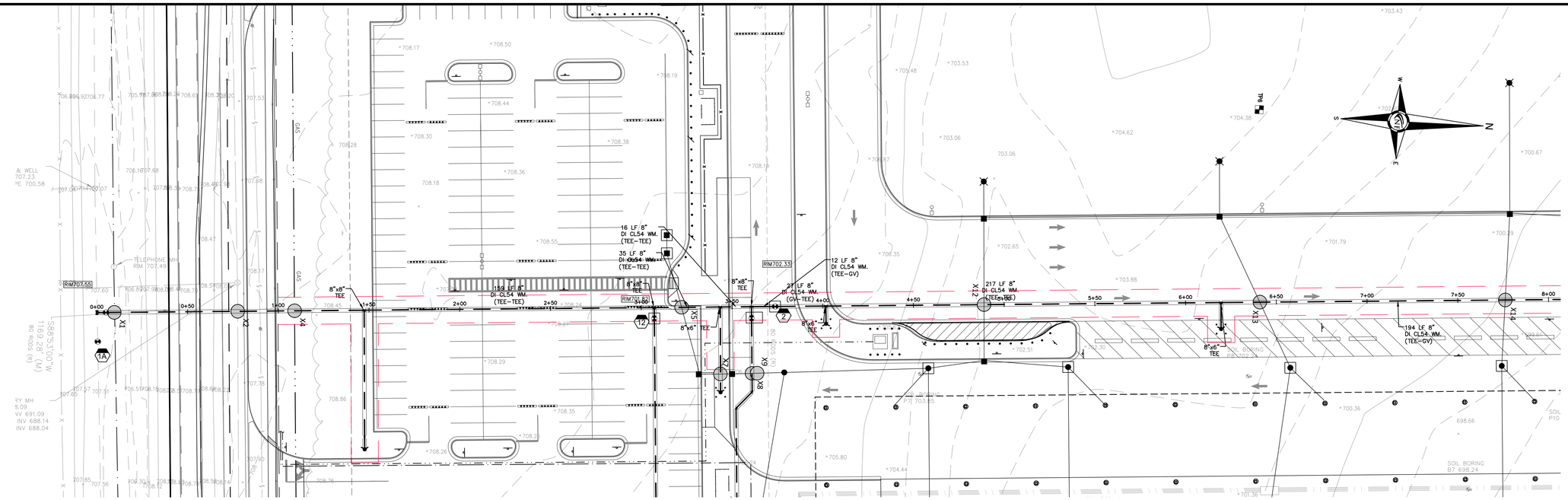
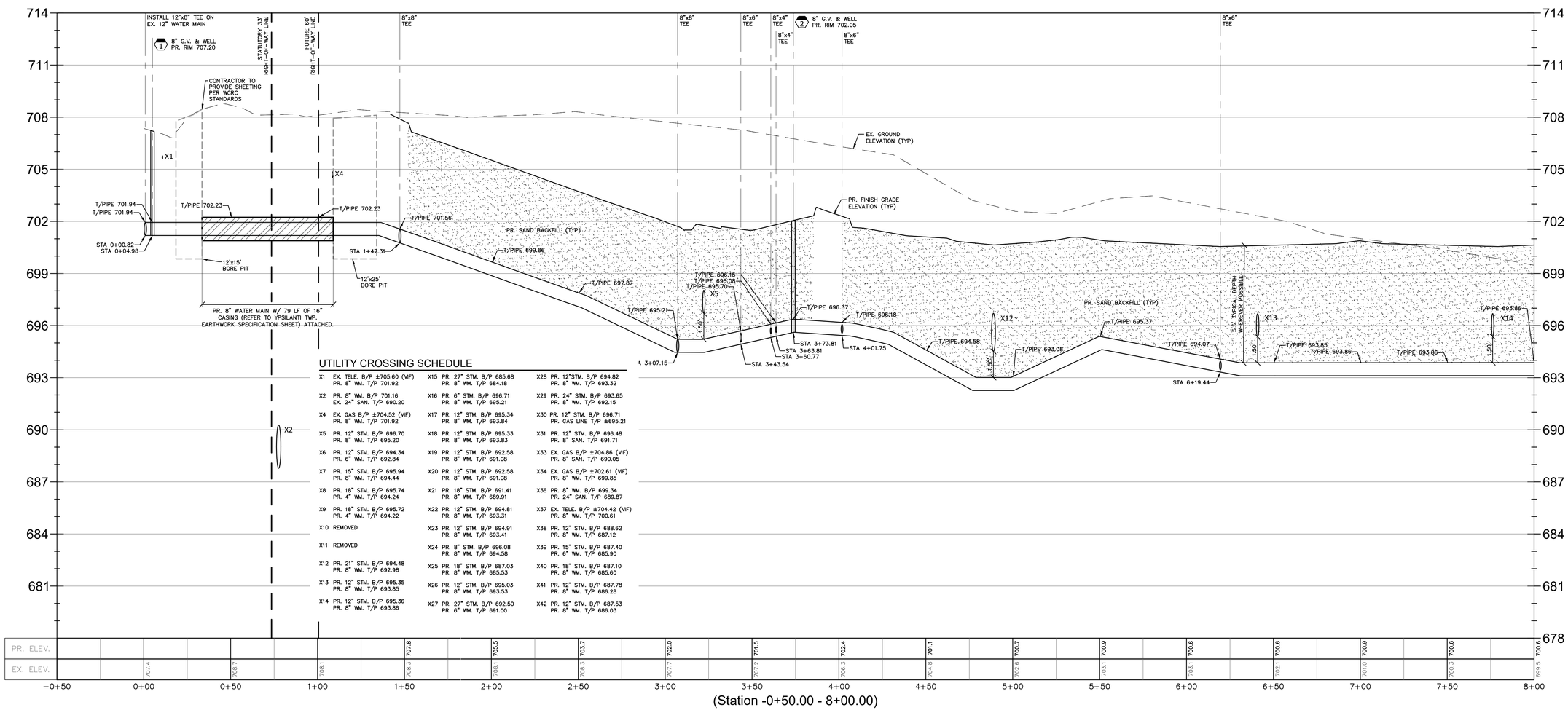
NFE JOB NO. M278-01
SHEET NO. SP 6.7





UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15	PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28	PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2	PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16	PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29	PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4	EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17	PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30	PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18	PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31	PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33	EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34	EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21	PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36	PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9	PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22	PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37	EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10	REMOVED	X23	PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38	PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11	REMOVED	X24	PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39	PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12	PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25	PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40	PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26	PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41	PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14	PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27	PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42	PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03

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ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
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Seefried Industrial Properties
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Contact:
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DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
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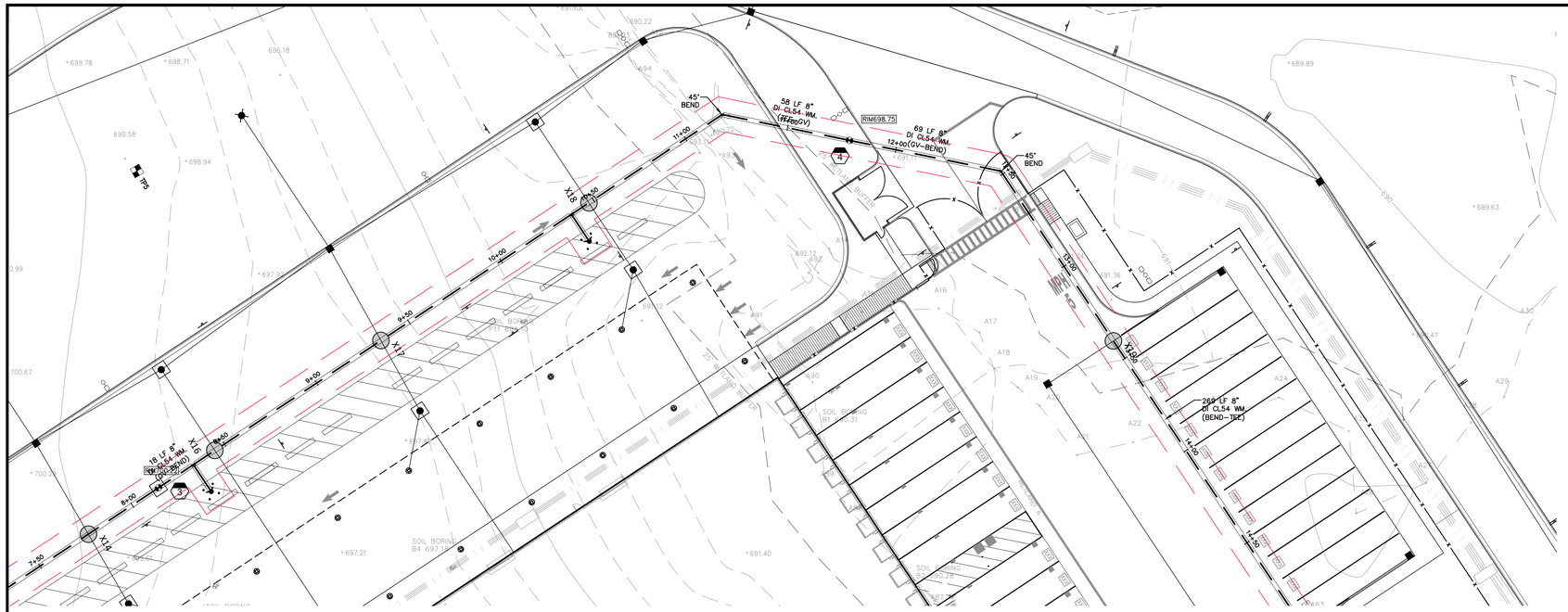

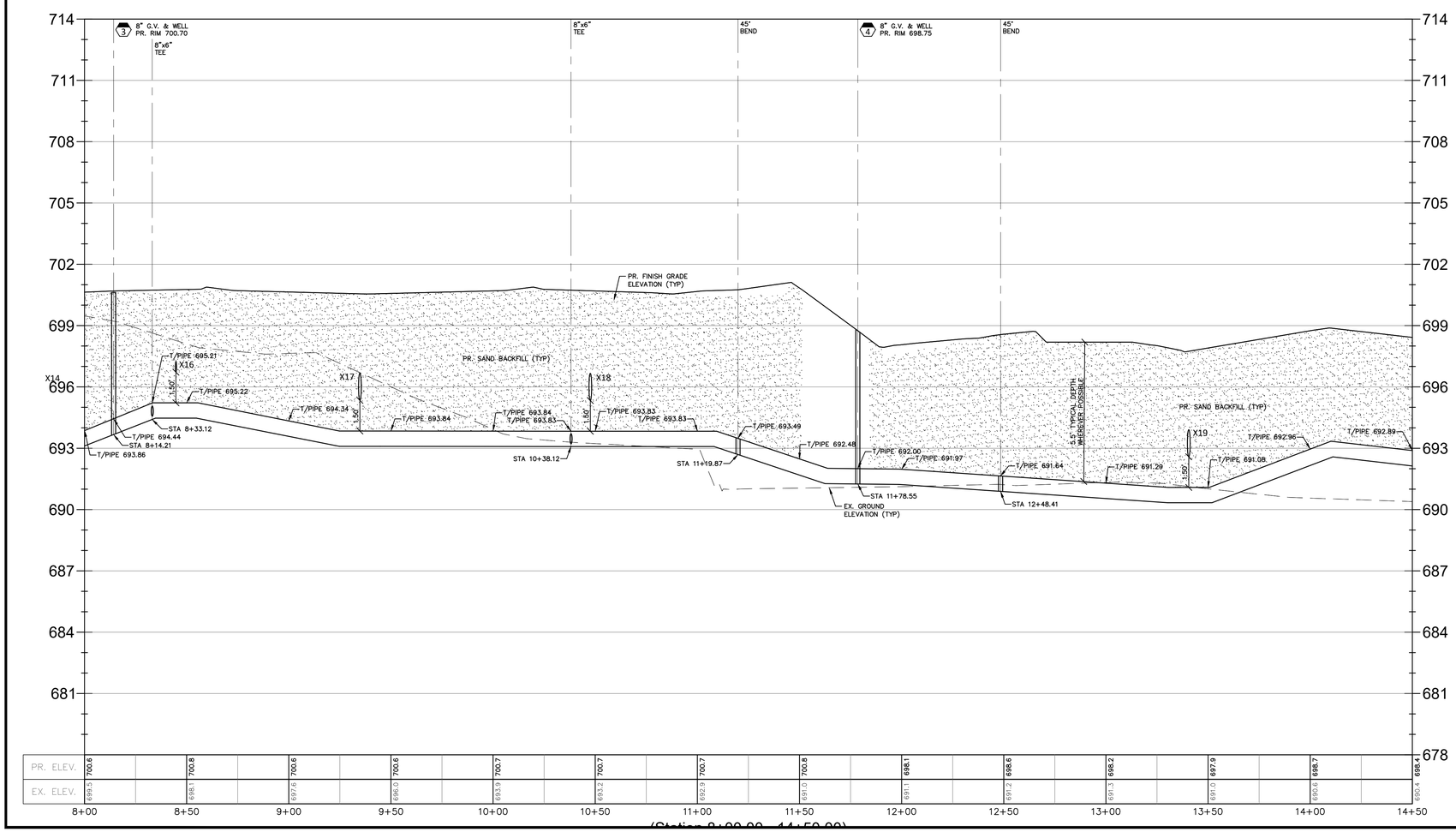

UTILITY CROSSING SCHEDULE

X1	EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15	PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28	PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
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X4	EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17	PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30	PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5	PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18	PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31	PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6	PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33	EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7	PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20	PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34	EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8	PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21	PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36	PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9	PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22	PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37	EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10	REMOVED	X23	PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38	PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11	REMOVED	X24	PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39	PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12	PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25	PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40	PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13	PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26	PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41	PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14	PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27	PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42	PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03

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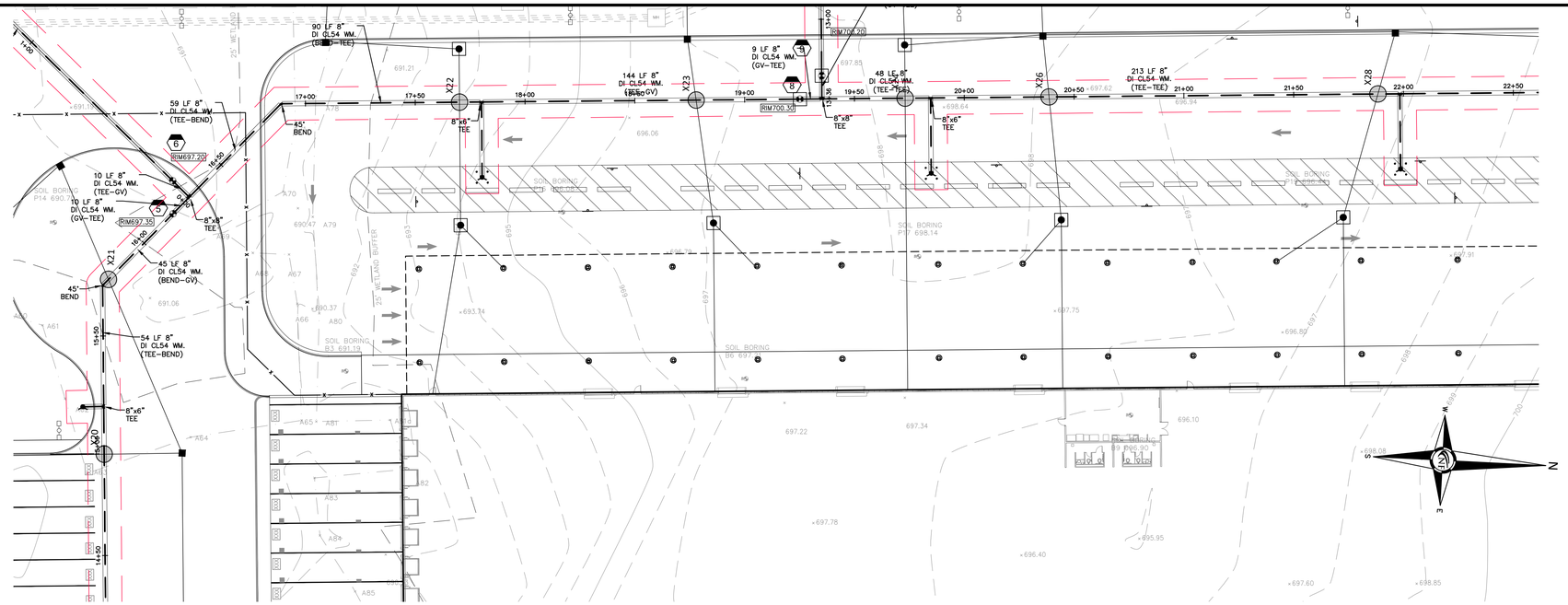
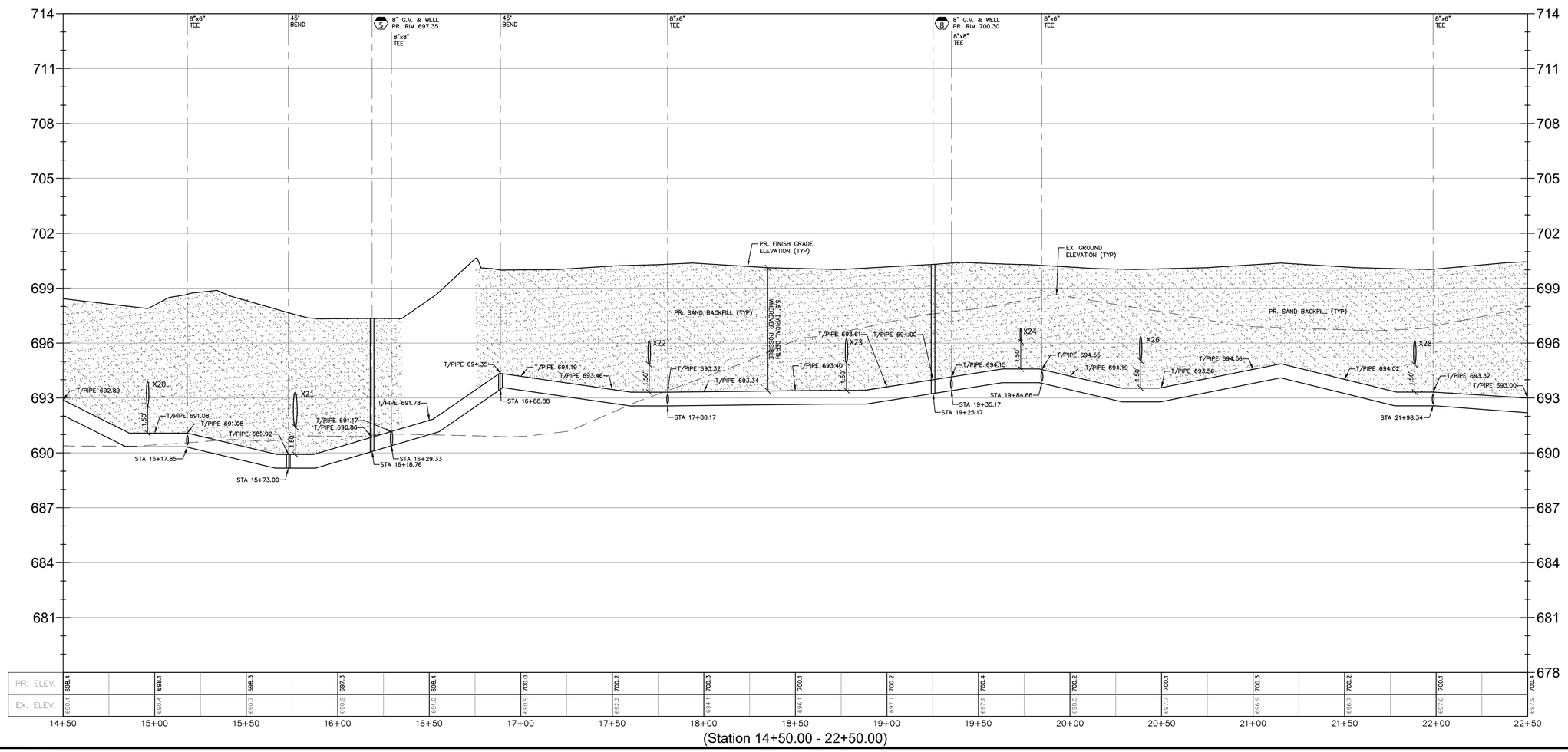
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
SHEET NO. SP 6.9

UTILITY CROSSING SCHEDULE

X1 EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5 PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13 PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14 PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27 PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42 PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03





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DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
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UTILITY CROSSING SCHEDULE

X1 EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5 PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (WF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (WF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 8" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
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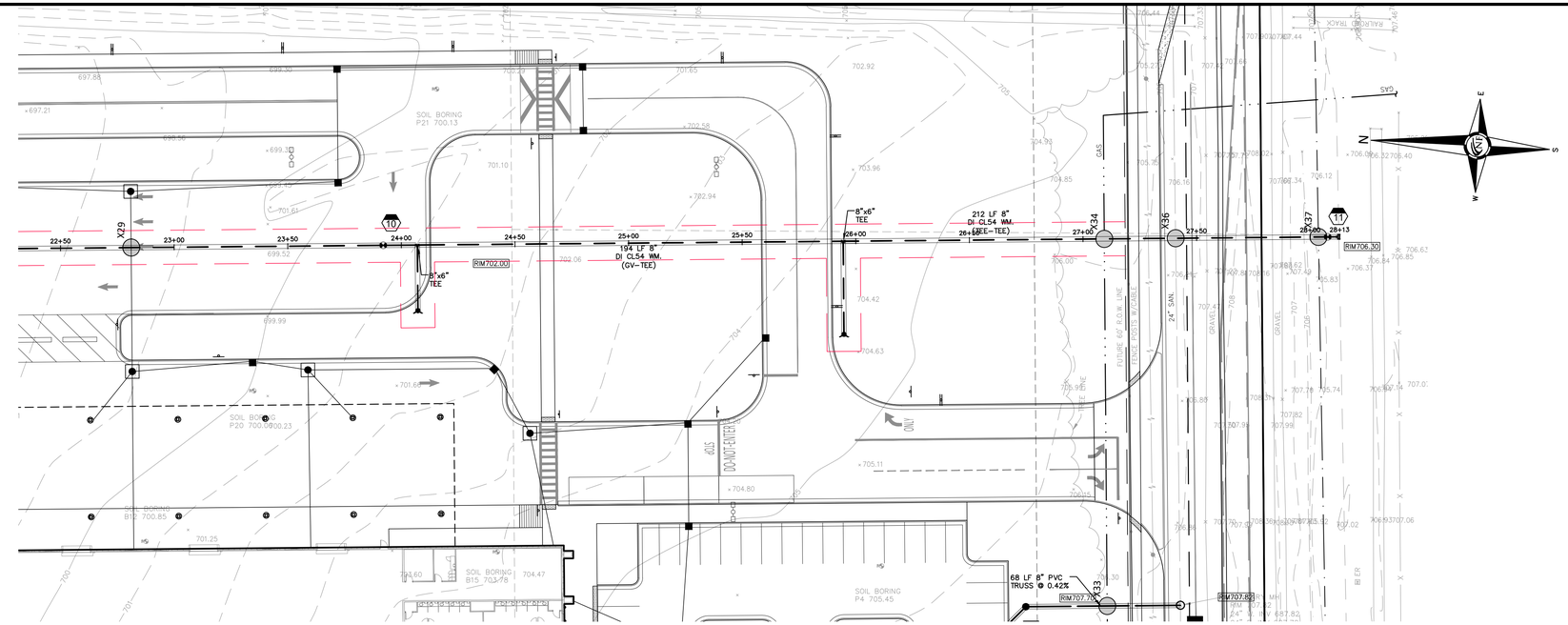

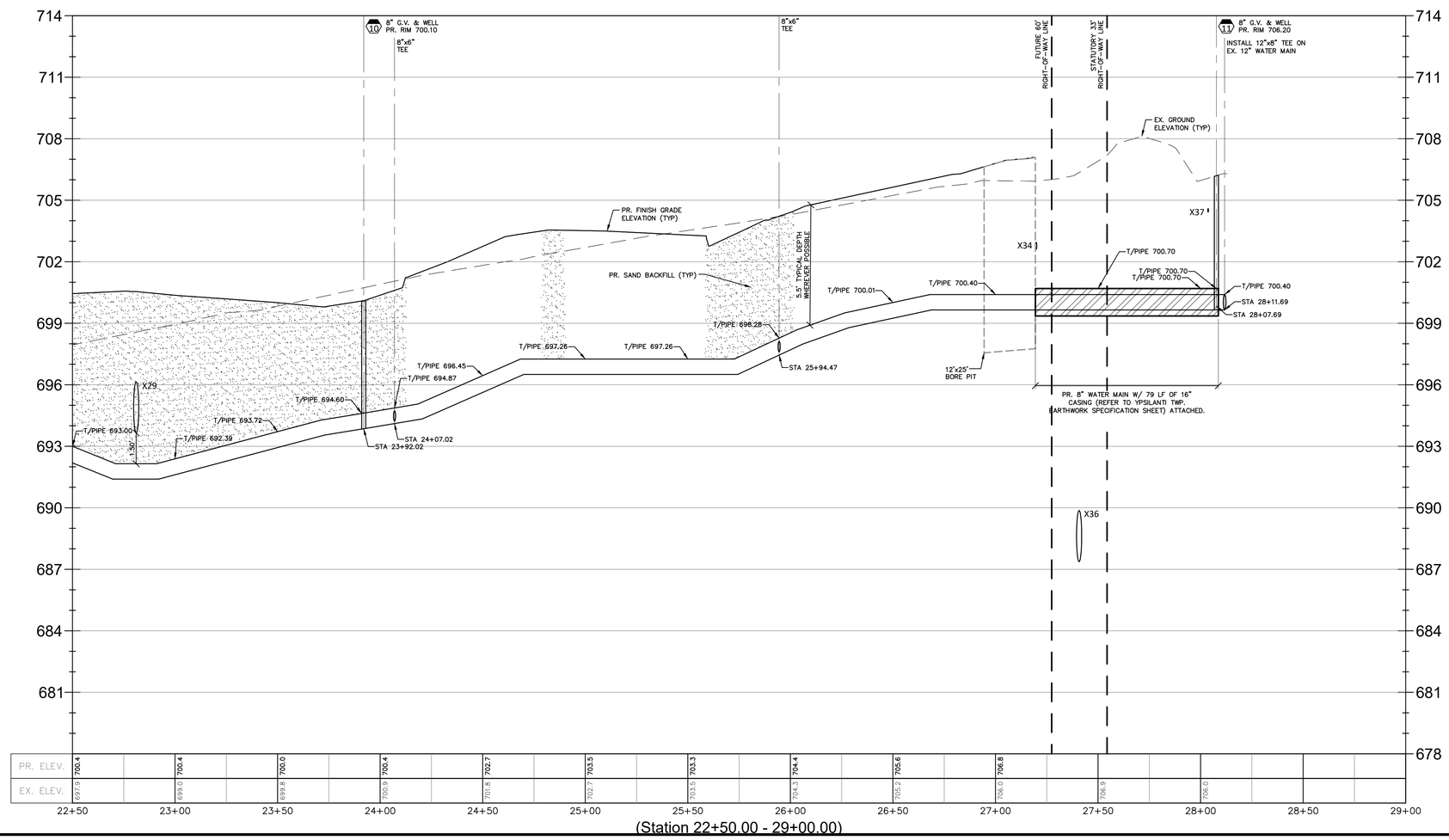

(Station 22+50.00 - 29+00.00)

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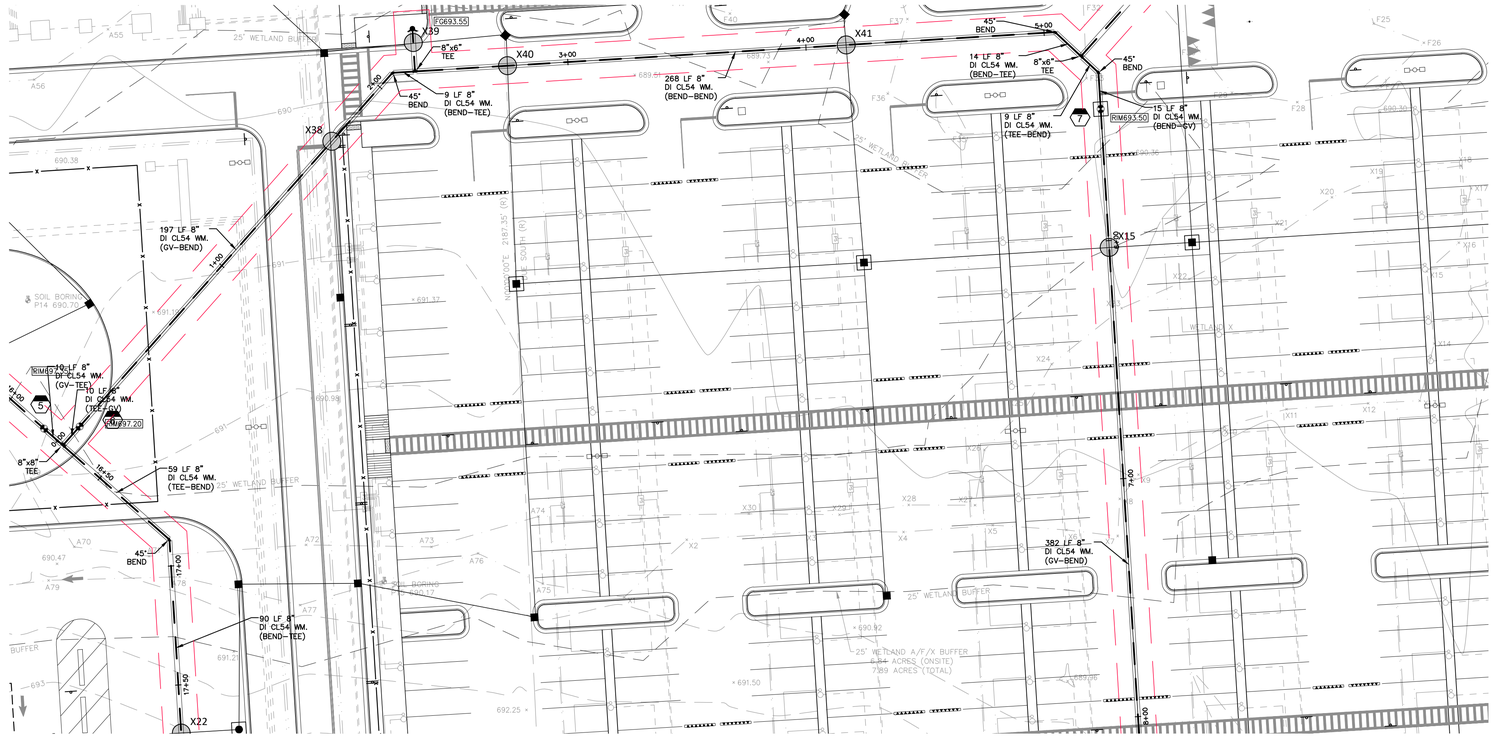
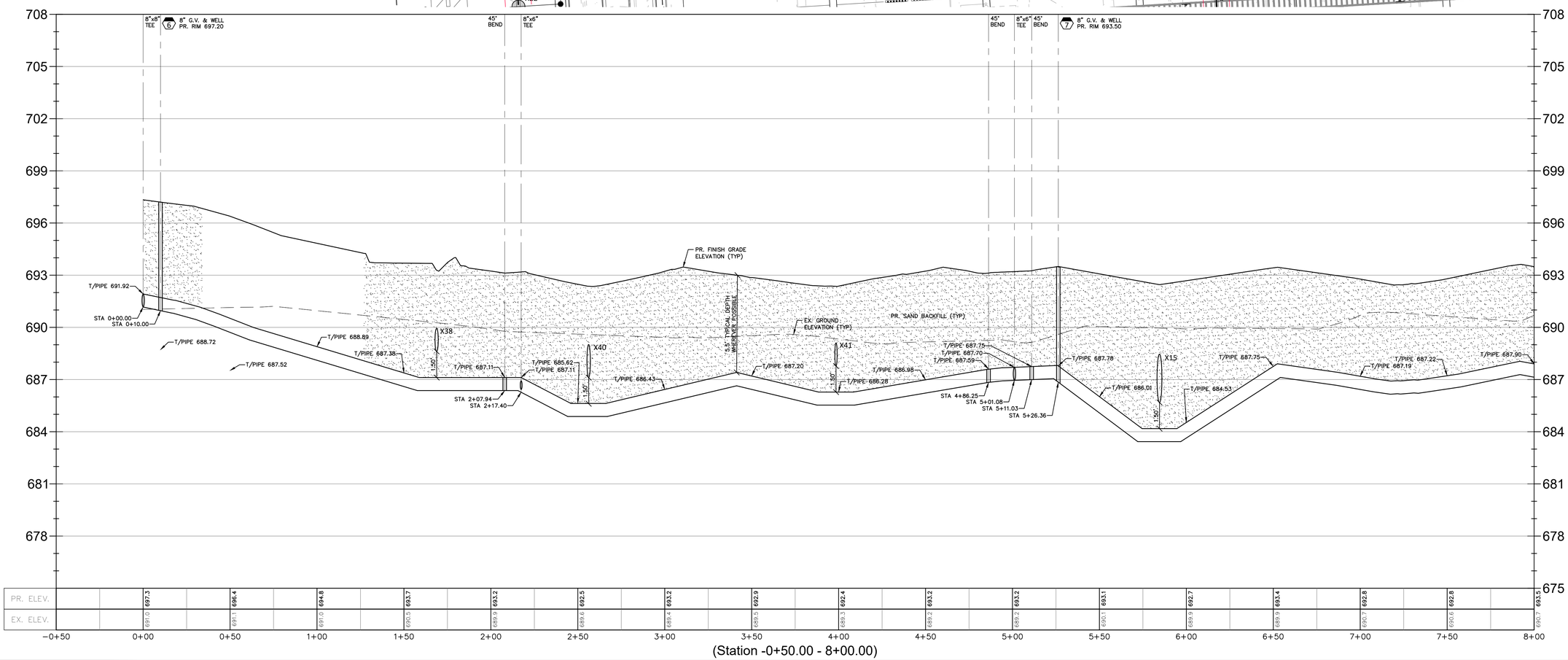
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
X10 REMOVED	X23 PR. 12" STM. B/P 694.91 PR. 8" WM. T/P 693.41	X38 PR. 12" STM. B/P 688.62 PR. 8" WM. T/P 687.12
X11 REMOVED	X24 PR. 8" STM. B/P 696.08 PR. 6" WM. T/P 694.58	X39 PR. 15" STM. B/P 687.40 PR. 6" WM. T/P 685.90
X12 PR. 21" STM. B/P 694.48 PR. 8" WM. T/P 692.98	X25 PR. 18" STM. B/P 687.03 PR. 8" WM. T/P 685.53	X40 PR. 18" STM. B/P 687.10 PR. 8" WM. T/P 685.60
X13 PR. 12" STM. B/P 695.35 PR. 8" WM. T/P 693.85	X26 PR. 12" STM. B/P 695.03 PR. 8" WM. T/P 693.53	X41 PR. 12" STM. B/P 687.78 PR. 8" WM. T/P 686.28
X14 PR. 12" STM. B/P 695.36 PR. 8" WM. T/P 693.86	X27 PR. 27" STM. B/P 692.50 PR. 6" WM. T/P 691.00	X42 PR. 12" STM. B/P 687.53 PR. 8" WM. T/P 686.03





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ENGINEER NO. 54071
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DRAWN BY:
J. Lawrey
DESIGNED BY:
B. Brickel
APPROVED BY:
B. Brickel
DATE:
September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
SHEET NO. SP 6.12

UTILITY CROSSING SCHEDULE

X1 EX. TELE. B/P ±705.60 (VIF) PR. 8" WM. T/P 701.92	X15 PR. 27" STM. B/P 685.68 PR. 8" WM. T/P 684.18	X28 PR. 12"STM. B/P 694.82 PR. 8" WM. T/P 693.32
X2 PR. 8" WM. B/P 701.16 EX. 24" SAN. T/P 690.20	X16 PR. 6" STM. B/P 696.71 PR. 8" WM. T/P 695.21	X29 PR. 24" STM. B/P 693.65 PR. 8" WM. T/P 692.15
X4 EX. GAS B/P ±704.52 (VIF) PR. 8" WM. T/P 701.92	X17 PR. 12" STM. B/P 695.34 PR. 8" WM. T/P 693.84	X30 PR. 12" STM. B/P 696.71 PR. GAS LINE T/P ±695.21
X5 PR. 12" STM. B/P 696.70 PR. 8" WM. T/P 695.20	X18 PR. 12" STM. B/P 695.33 PR. 8" WM. T/P 693.83	X31 PR. 12" STM. B/P 696.48 PR. 8" SAN. T/P 691.71
X6 PR. 12" STM. B/P 694.34 PR. 6" WM. T/P 692.84	X19 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X33 EX. GAS B/P ±704.86 (VIF) PR. 8" SAN. T/P 690.05
X7 PR. 15" STM. B/P 695.94 PR. 8" WM. T/P 694.44	X20 PR. 12" STM. B/P 692.58 PR. 8" WM. T/P 691.08	X34 EX. GAS B/P ±702.61 (VIF) PR. 8" WM. T/P 699.85
X8 PR. 18" STM. B/P 695.74 PR. 4" WM. T/P 694.24	X21 PR. 18" STM. B/P 691.41 PR. 8" WM. T/P 689.91	X36 PR. 8" WM. B/P 699.34 PR. 24" SAN. T/P 689.87
X9 PR. 18" STM. B/P 695.72 PR. 4" WM. T/P 694.22	X22 PR. 12" STM. B/P 694.81 PR. 8" WM. T/P 693.31	X37 EX. TELE. B/P ±704.42 (VIF) PR. 8" WM. T/P 700.61
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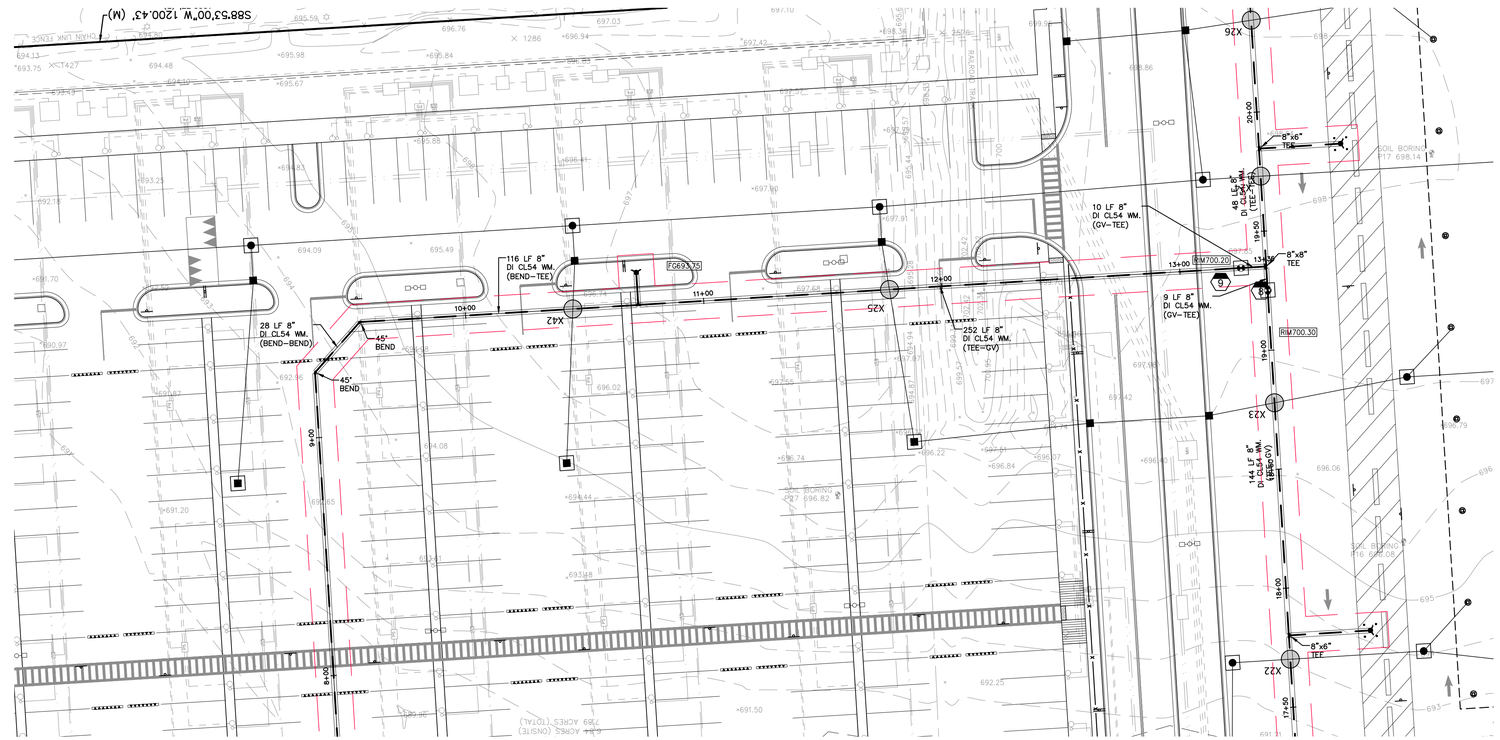

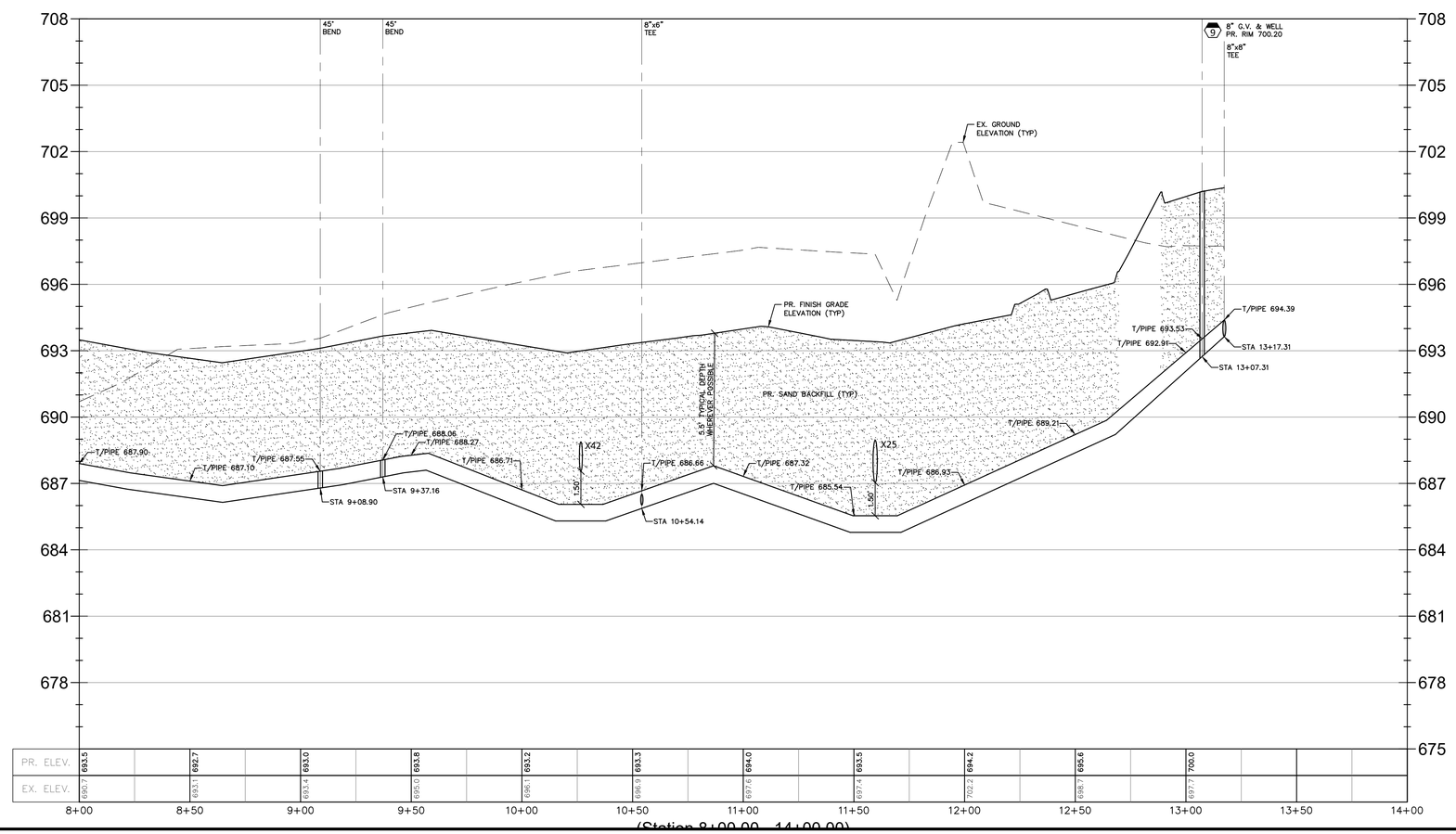

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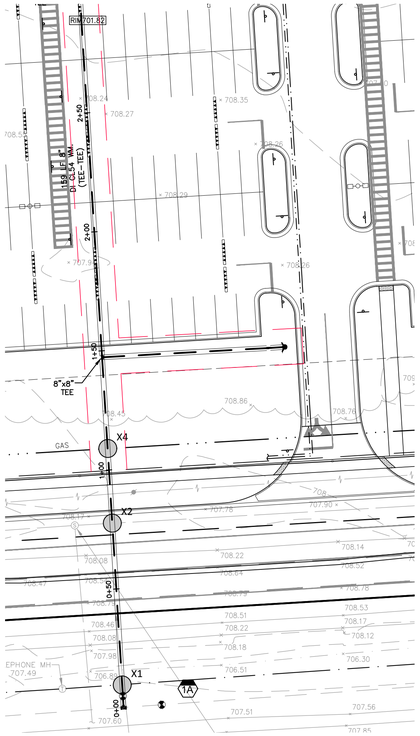

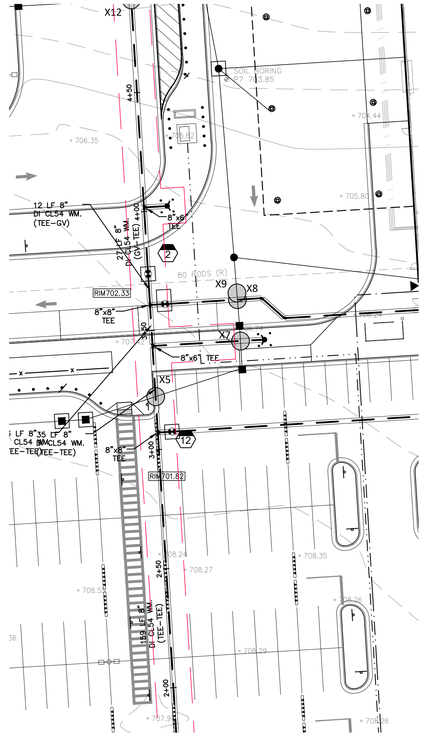

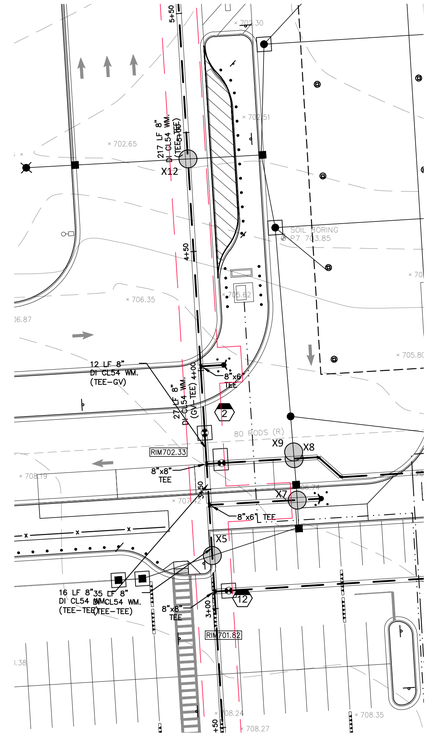

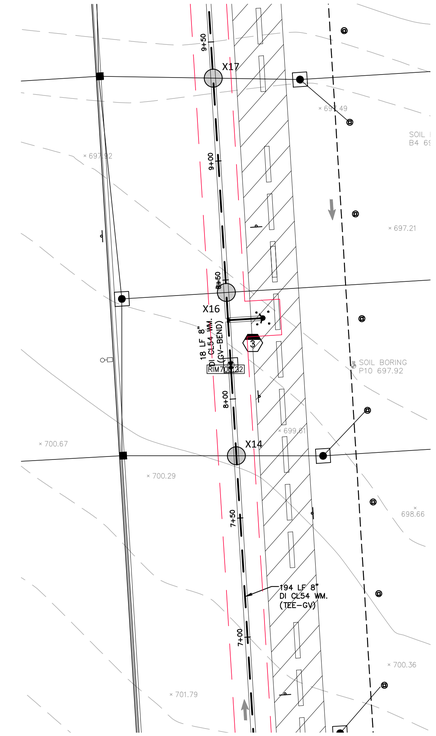

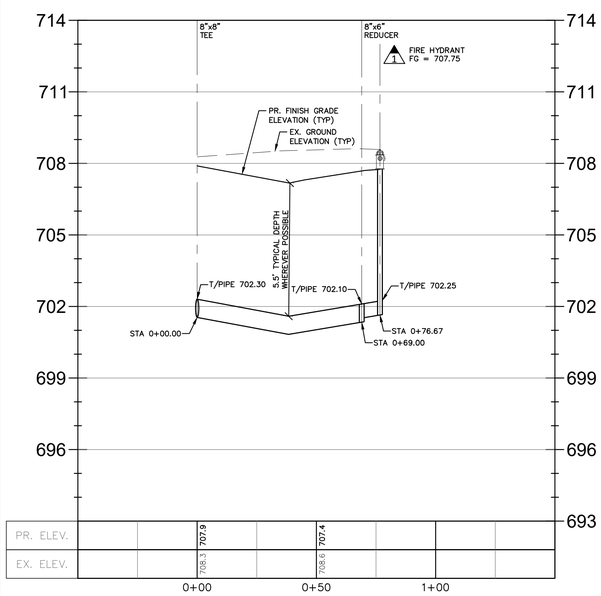

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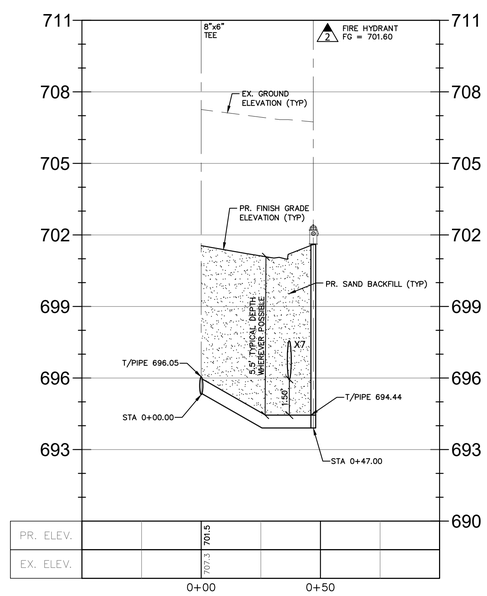

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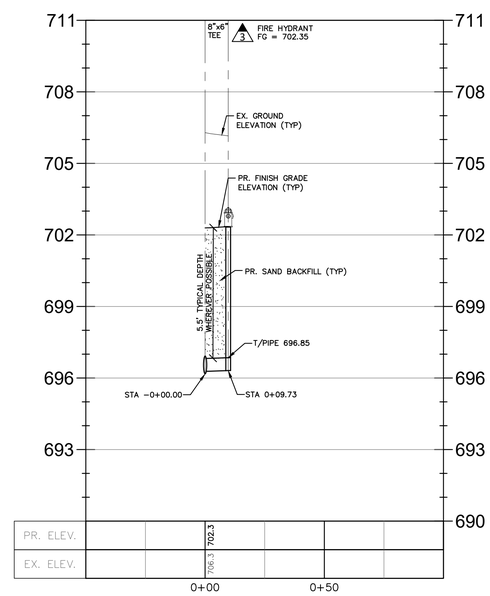

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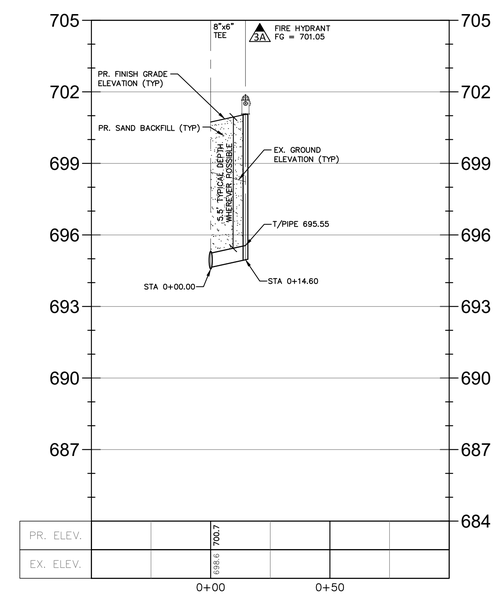

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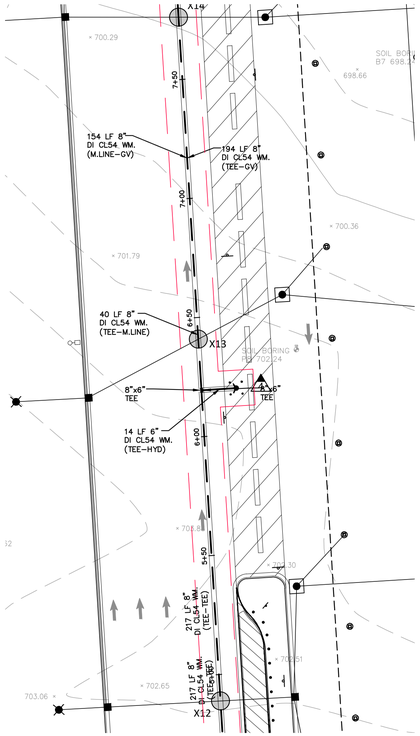

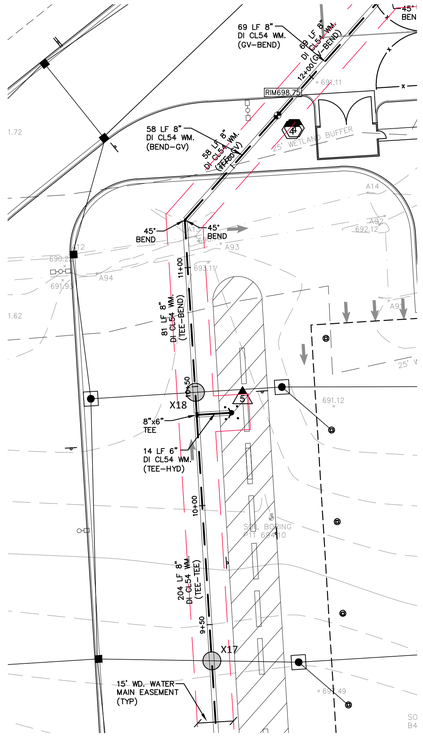

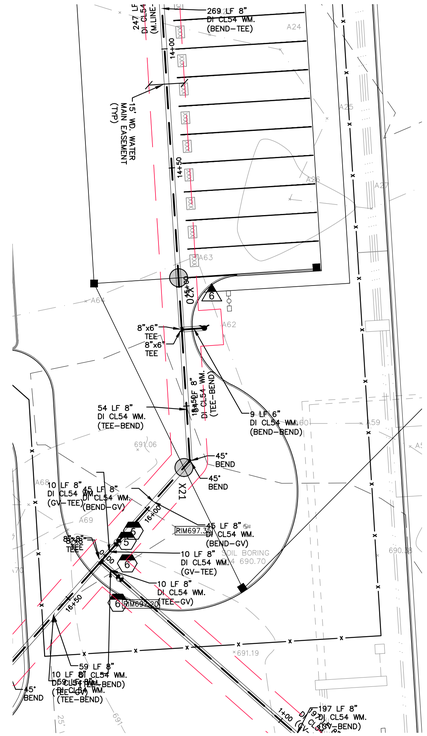

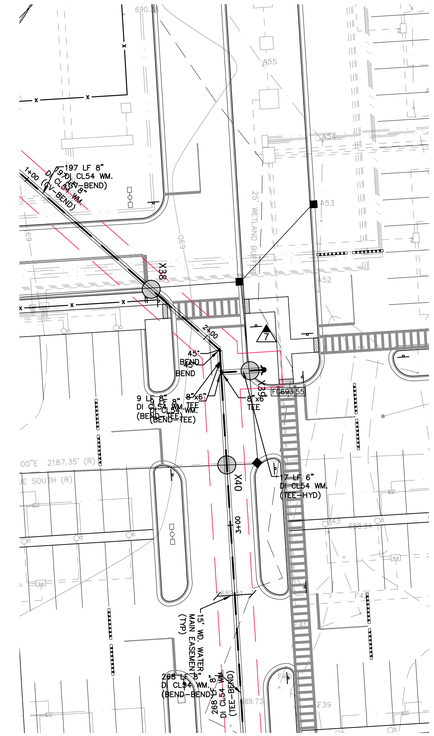

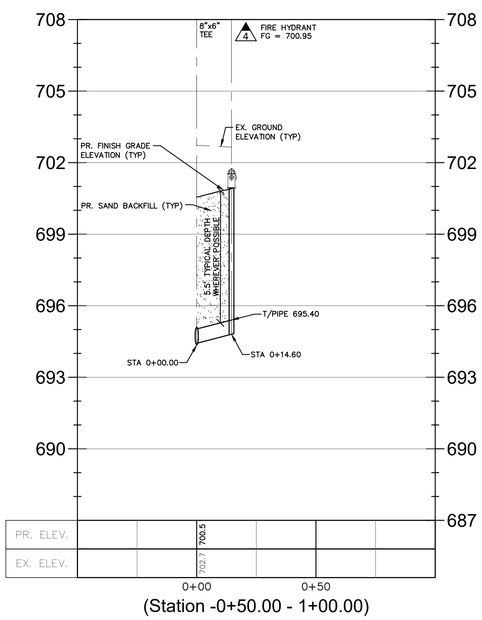

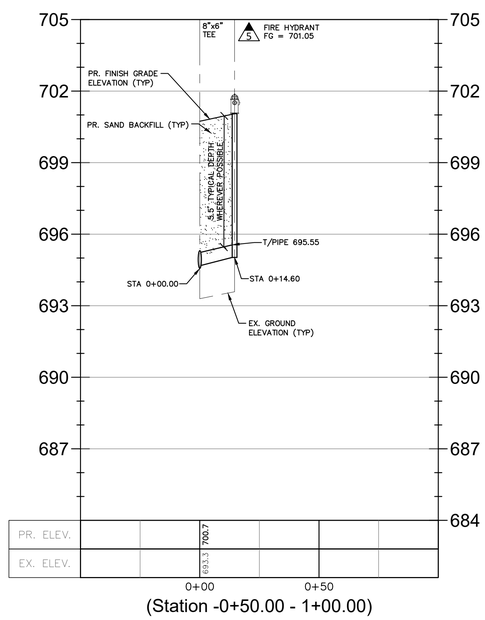

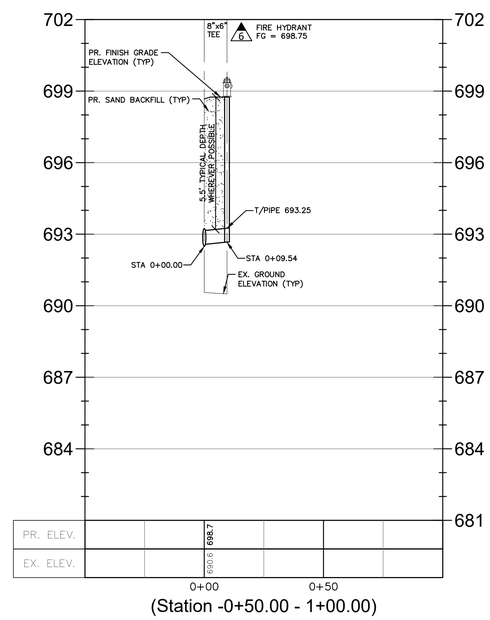

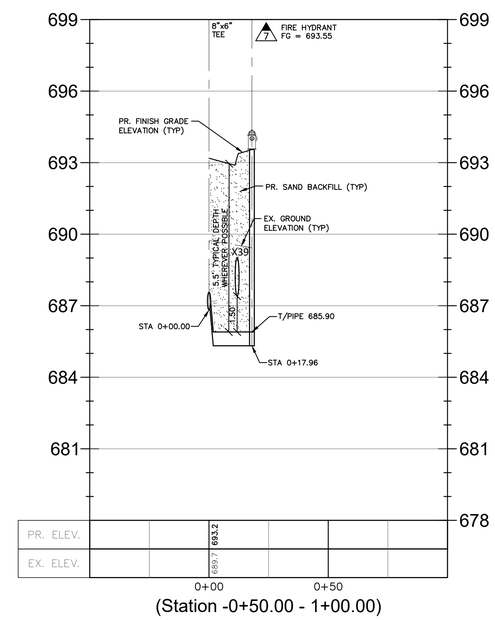

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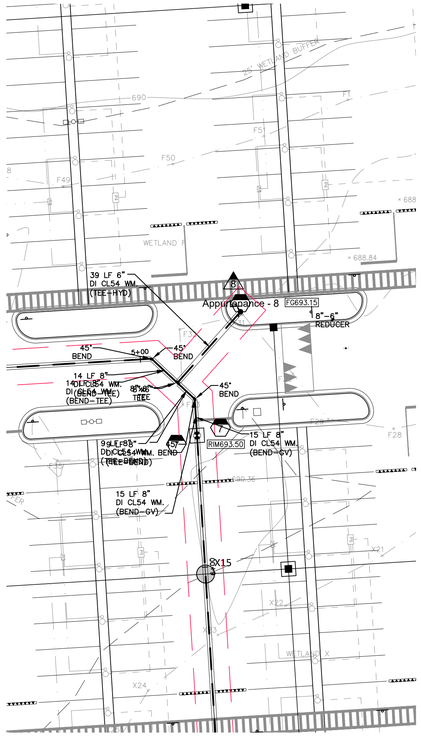

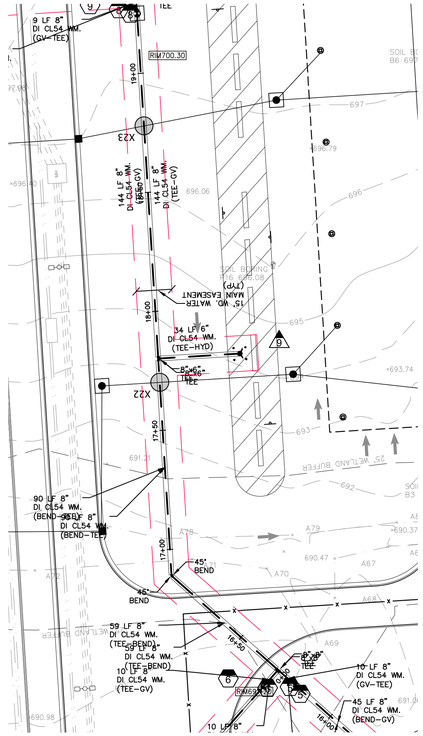

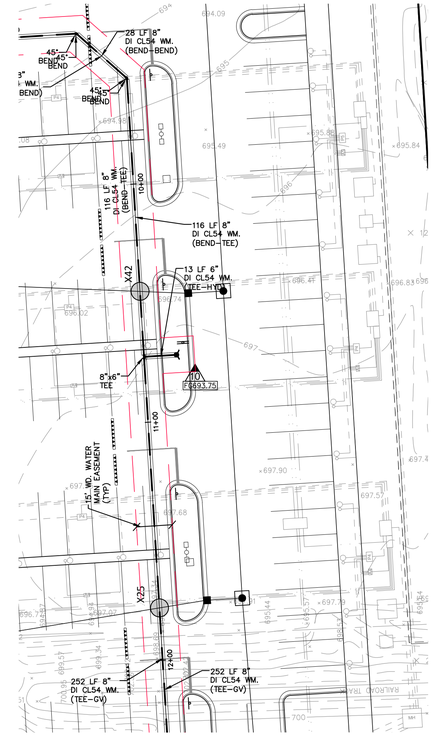

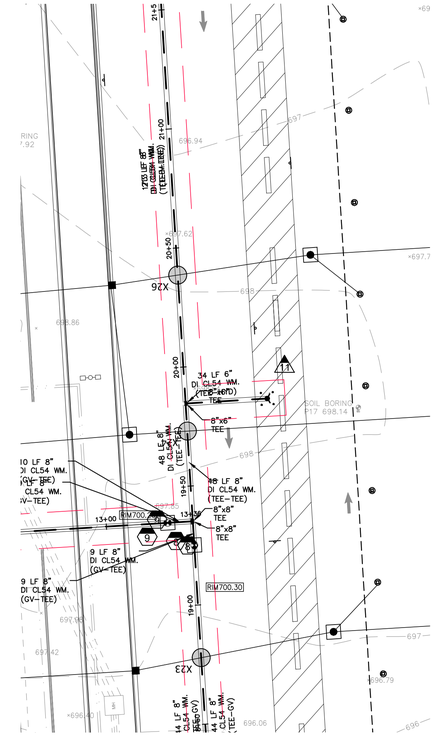

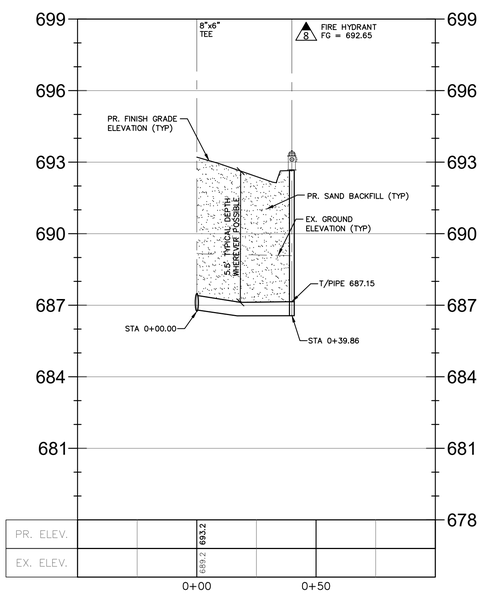

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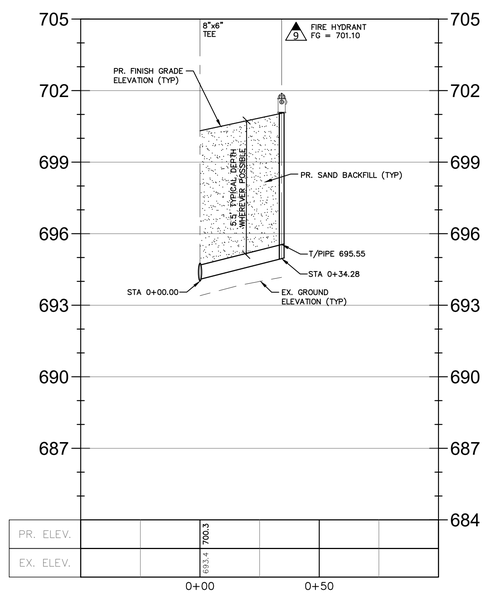

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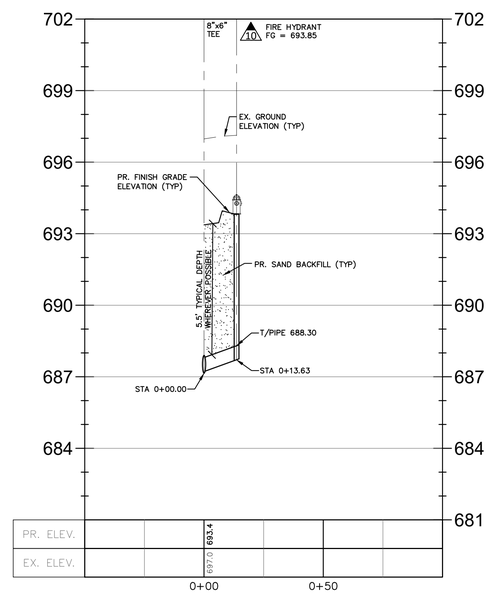

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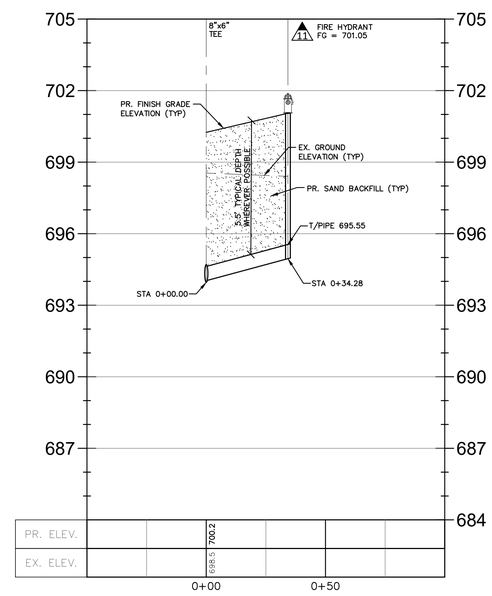

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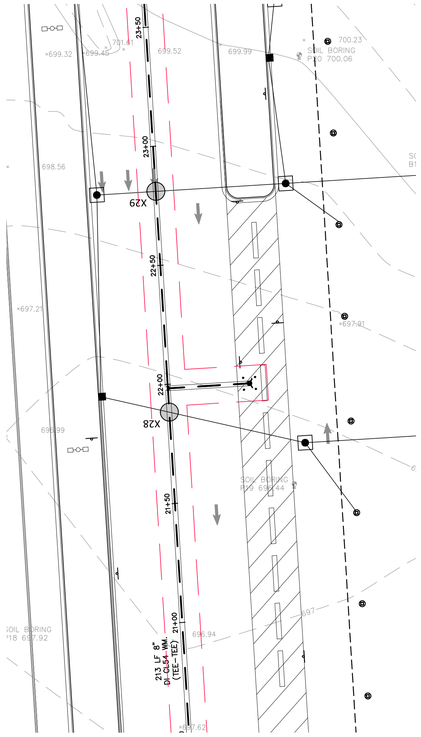
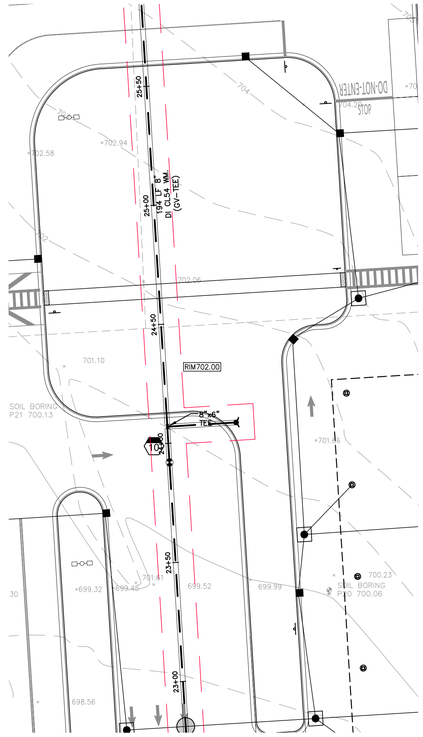
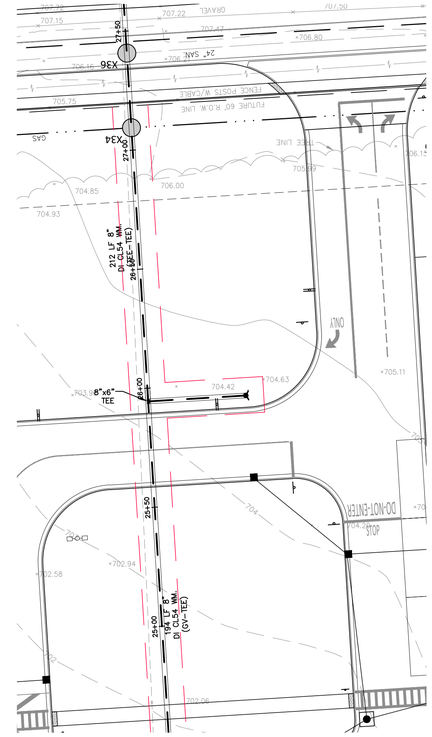
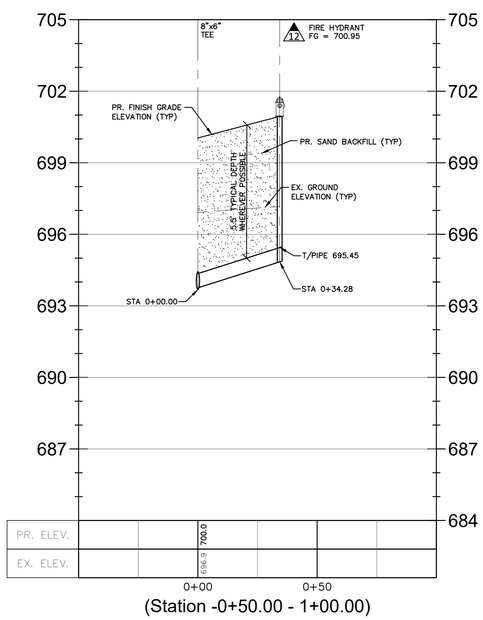
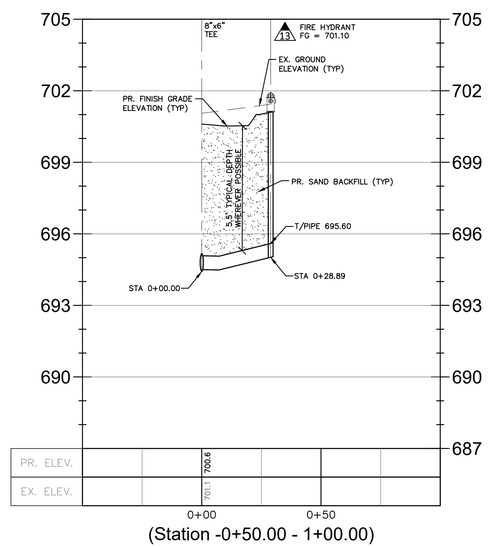
NFE JOB NO. M278-01
SHEET NO. SP 6.16

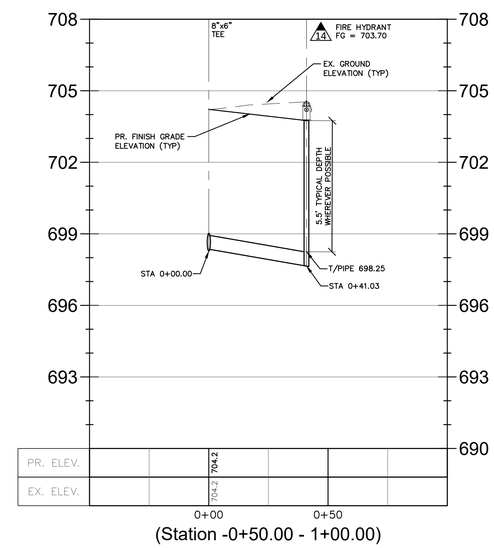












NF ENGINEERS

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TEL. (248) 332-7931
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WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Water Main Profile Plan

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
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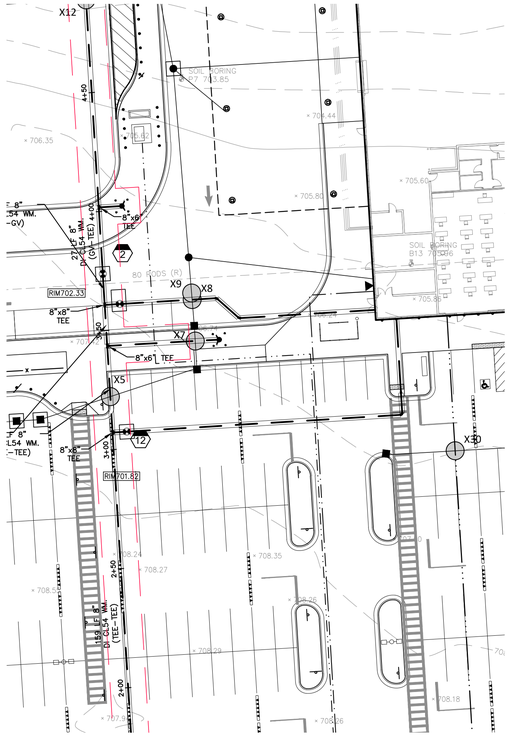
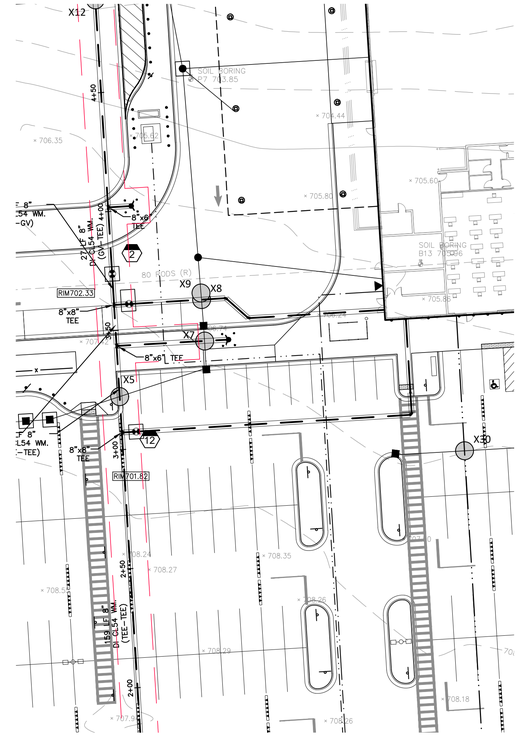
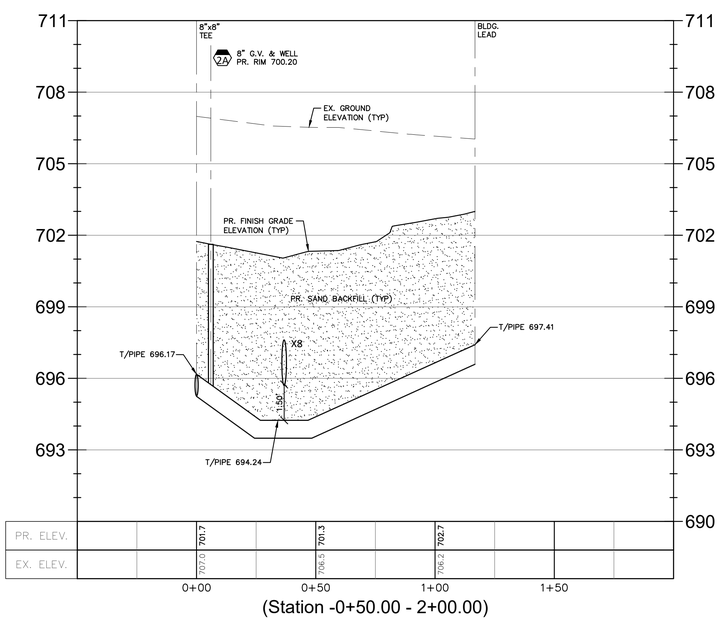
DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30' / 1"=3'

NFE JOB NO. M278-01
SHEET NO. SP 6.17







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30 15 0 15 30 45

NFE JOB NO. **M278-01**

SHEET NO. **SP 6.18**

EXISTING DRAINAGE PATTERN (TYP)

WETLAND B 0.81 ACRES

WETLAND C 0.07 ACRES

WETLAND E 0.25 ACRES

WETLAND A/F/X 3.50 ACRES (ONSITE) 3.85 ACRES (TOTAL)

WETLAND F

WETLAND X

WETLAND A

WETLAND D 2.24 ACRES (ONSITE) 2.72 ACRES (TOTAL)

WATER LEVEL: 649.71

TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12

RAWSONVILLE RD. (R.O.W. VARIES)

TEXTILE RD. (R.O.W. VARIES)

F.MON.

STORM DRAINAGE NARRATIVE

EXISTING CONDITION

THE SITE IS PREDOMINANTLY HEAVILY WOODED WITH AREAS OF POCKET WETLANDS THROUGH THE MIDDLE OF THE SITE AND TO THE EAST ALONG RAWSONVILLE ROAD. THE TERRAIN GENERALLY FALLS FROM SOUTHWEST TO NORTHEAST TOWARDS A WETLAND COMPLEX UNDER THE JURISDICTION OF EGLE AND TO THE HURON RIVER.

THE STORM WATER RUNOFF FROM THE SITE DRAINS TO THE EXISTING WETLANDS AND HURON RIVER. THE WEST HALF OF RAWSONVILLE ROAD R.O.W. ALSO DRAINS FROM EAST TO WEST AND OUTLETS TO THE EXISTING WETLANDS ALONG THE EAST SIDE OF THE SITE.

PROPOSED STORM DRAINAGE SYSTEM DESIGN

IN CONJUNCTION WITH THE DEVELOPMENT OF THE SITE, THE STORM WATER MANAGEMENT FACILITY IMPROVEMENTS ARE TO COMPLY WITH THE CURRENT RULES OF THE WASHTENAW COUNTY WATER RESOURCE COMMISSIONER (WCWRC).

THE PROPOSED STORM WATER RUNOFF WILL BE COLLECTED AND CONVEYED VIA STORM SEWER TO A DETENTION BASIN PROPOSED ON THE EAST PORTION OF THE SITE. THE BASIN WILL BE SIZED USING THE WCWRC METHOD TO TREAT THE REQUIRED STORM WATER IN THE BOTTOM OF THE PONDS, AND DETAIN FOR A 100-YEAR STORM EVENT. A FLOW RESTRICTOR WILL BE PROVIDED VIA A PERFORATED RISER OUTLET STRUCTURE IN ORDER TO REGULATE THE RATE OF DISCHARGE AT OR BELOW THE ALLOWABLE BANK FULL AND 100-YEAR RATES. STONE WALL FORE-BAYS WILL BE PROVIDED WITHIN THE BASINS TO PROMOTE SETTLING OF SUSPENDED SOLIDS AND SEDIMENT FOR HE MORE FREQUENT RAIN EVENTS.

THE OUTLET FROM THE BASIN WILL BE DISCHARGING AT RESTRICTED RATE TO THE EXISTING WETLAND COMPLEX VIA AN EXISTING SWALE. REFER TO THE PLANS FOR ADDITIONAL DETAILS.

N W E S

Location Map
N.T.S.

LEGEND

- MANHOLE — EXISTING SANITARY SEWER
- SAN. CLEAN OUT
- HYDRANT, GATE VALVE — EXISTING WATER MAIN
- MANHOLE, CATCH BASIN — EXISTING STORM SEWER
- EX. R. Y. CATCH BASIN
- UTILITY POLE, GUY POLE — EXISTING BURIED CABLES
- GUY WIRE — OVERHEAD LINES
- LIGHT POLE
- SIGN
- EXISTING GAS MAIN
- C.O., MANHOLE — PR. SANITARY SEWER
- HYDRANT, GATE VALVE — PR. WATER MAIN
- INLET, C.B., MANHOLE — PR. STORM SEWER
- PR. R. Y. CATCH BASIN
- SAND BACKFILL (95 % DENSITY)
- PROPOSED LIGHT POLE

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SHEET
Overall Drainage Plan
(Existing)

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J. Lawrey

DESIGNED BY:
B. Brickel

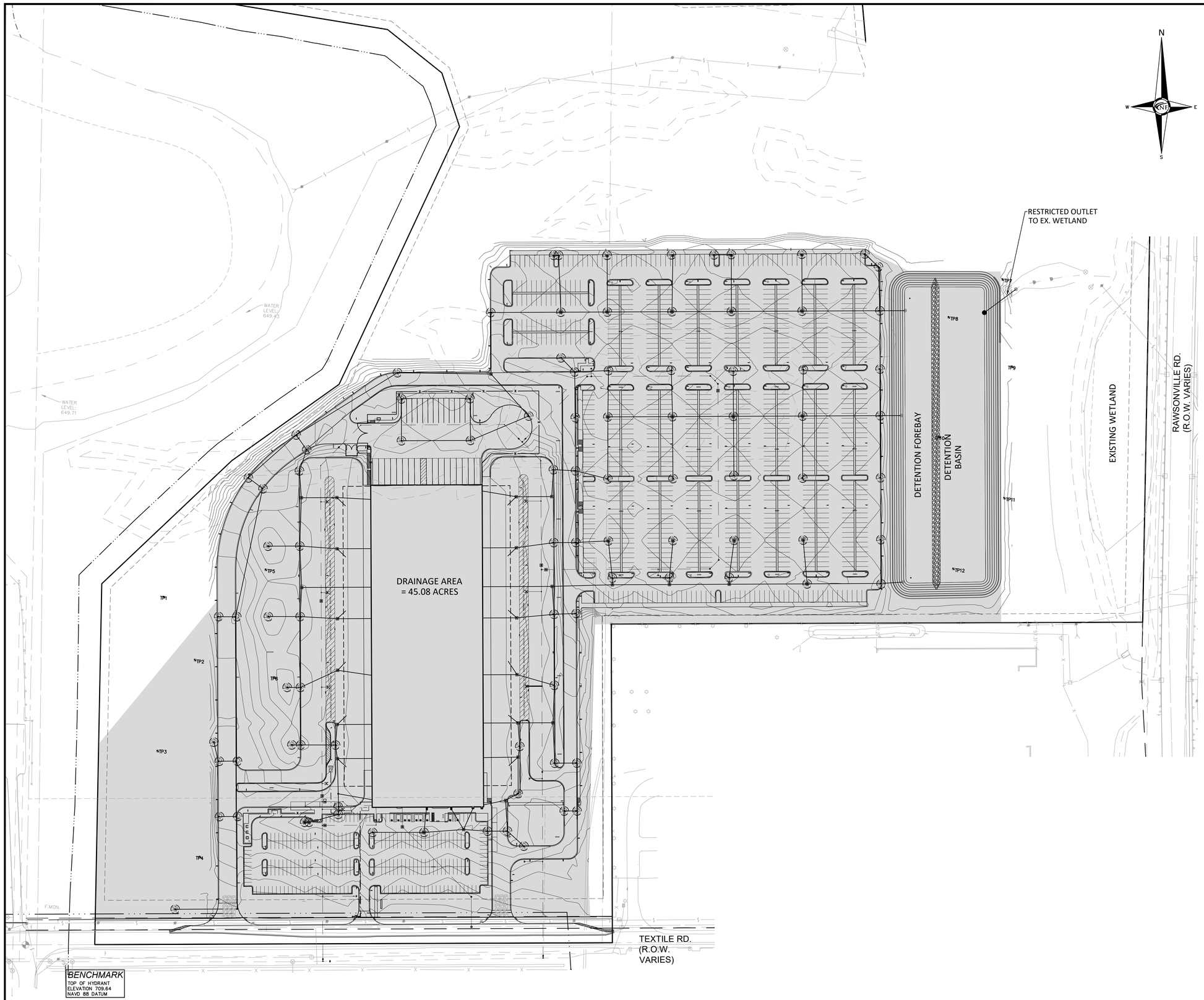
APPROVED BY:
B. Brickel

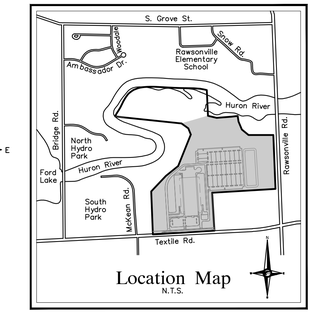
DATE:
September 24, 2021

SCALE: 1" = 100'
100 50 0 50 100 150

NFE JOB NO. M278-01

SHEET NO. SP 7.0





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HATCH LEGEND

DRAINAGE AREA

LEGEND

MANHOLE
HYDRANT
GATE VALVE
MANHOLE
CATCH BASIN
UTILITY POLE
GUY POLE
GUY WIRE
C.O.
MANHOLE
HYDRANT
GATE VALVE
INLET
C.B.
MANHOLE

EXISTING SANITARY SEWER
SAN. CLEAN OUT
EXISTING WATER MAIN
EXISTING STORM SEWER
EX. R. Y. CATCH BASIN
EXISTING BURIED CABLES
OVERHEAD LINES
LIGHT POLE
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PR. SANITARY SEWER
PR. WATER MAIN
PR. STORM SEWER
PR. R. Y. CATCH BASIN
SAND BACKFILL
(95 % DENSITY)
PROPOSED LIGHT POLE

SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
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Contact:
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T: (630) 251-5984

PROJECT LOCATION
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T.3 S., R.7 E.,
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Washtenaw County, Michigan

SHEET
Overall Drainage Area Plan
(Proposed)

811
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DRAWN BY:
J. Lawrey

DESIGNED BY:
B. Brickel

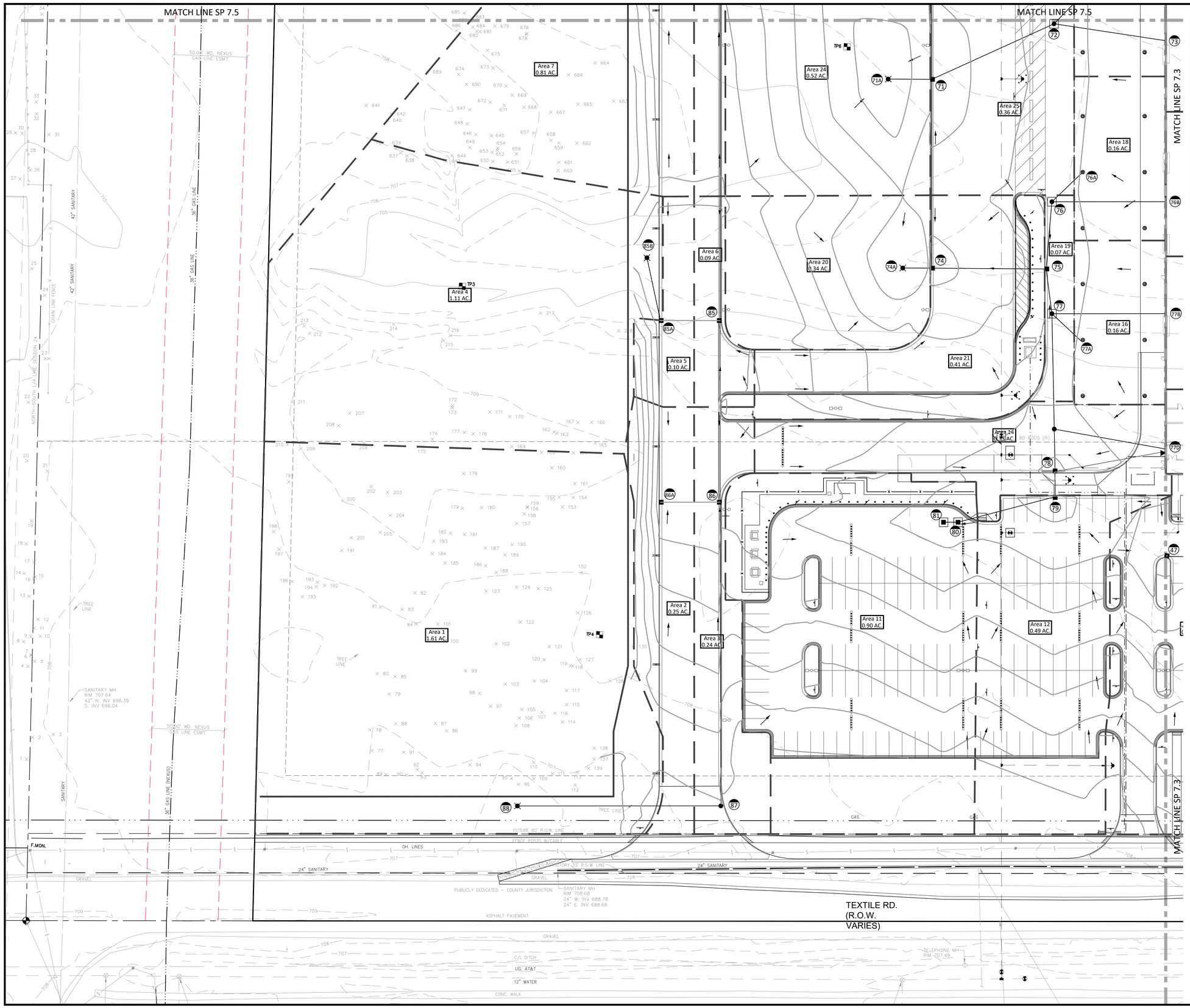
APPROVED BY:
B. Brickel

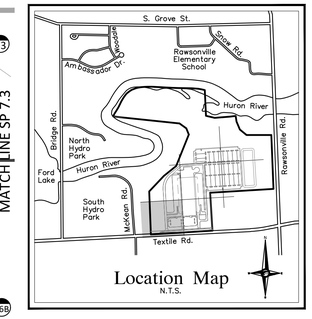
DATE:
September 24, 2021

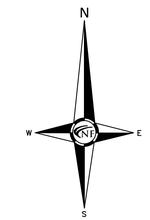
SCALE: 1" = 100'
100 50 0 50 100 150

NFE JOB NO. **M278-01**

SHEET NO. **SP 7.1**







NOTES

REFER TO SHEET SP 7.1 FOR SOIL EROSION CONTROL NOTES & DETAILS..

LEGEND

— — —	INDICATES LIMITS OF DRAINAGE DISTRICT AREA
———	INDICATES LIMITS OF EARTH DISRUPTION
AREA A 0.00 ACRE	INDICATES DRAINAGE DISTRICT AREA

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APPROVED BY:
B. Brickel

DATE:
September 24, 2021

SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. **M278-01**

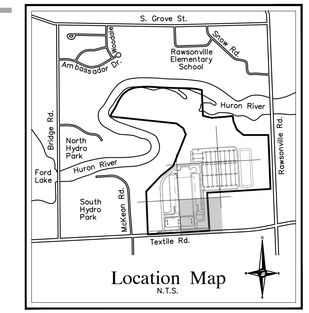
SHEET NO. **SP 7.2**

MATCH LINE SP 7.6

MATCH LINE SP 7.2

Area 22 0.23 AC.
Area 78 0.34 AC.
Area 80 0.37 AC.
Area 83 0.48 AC.
Area 17 0.23 AC.
Area 72 0.34 AC.
Area 73 0.16 AC.
PROPOSED BUILDING
183,184SF.
F.F. 703.00
Area 71 0.06 AC.
Area 77 0.37 AC.
Area 76 0.32 AC.
Area 69 0.31 AC.
Area 15 0.21 AC.
Area 70 0.16 AC.
Area 13 0.14 AC.
Area 67 0.20 AC.
Area 68 0.11 AC.
Area 74 0.10 AC.
Area 75 0.12 AC.
Area 62 0.58 AC.
Area 64 0.53 AC.
Area 66 0.53 AC.
Area 63 0.59 AC.
Area 65 0.55 AC.

FUTURE 60' R.O.W. LINE
FENCE POSTS W/CABLE
OH. LINES
24" SANITARY
24" SAN.
STATUTORY 33' R.O.W. LINE
GRAVEL
PUBLICLY DEDICATED – COUNTY JURISDICTION
ASPHALT PAVEMENT
SANITARY MH
RIM 707.82
24" W. INV 687.82
24" E. INV 687.72
PAD FOR GATE ARM
TEXTILE RD.
(R.O.W. VARIES)
TELEPHONE MH
RIM 706.62
SECURITY DEVICE POST
AT&T TRANSFORMER
CHAIN LINK FENCE
GATE
TREE LINE
SOIL TYPE 01
GAS
C/L DITCH
UG. AT&T
12" WATER
CONC. WALK
RAILROAD TRACK
SANITARY MH
RIM 706.13
24" W. INV 687.58
24" E. INV 687.53
END SECTION
12" SW. INV 694.05
END SECTION
12" NE. INV 695.95
S01°07'00"E
720.00' (M)
720.00' (R)
20 RODS (R)



Location Map
N.T.S.

N
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S

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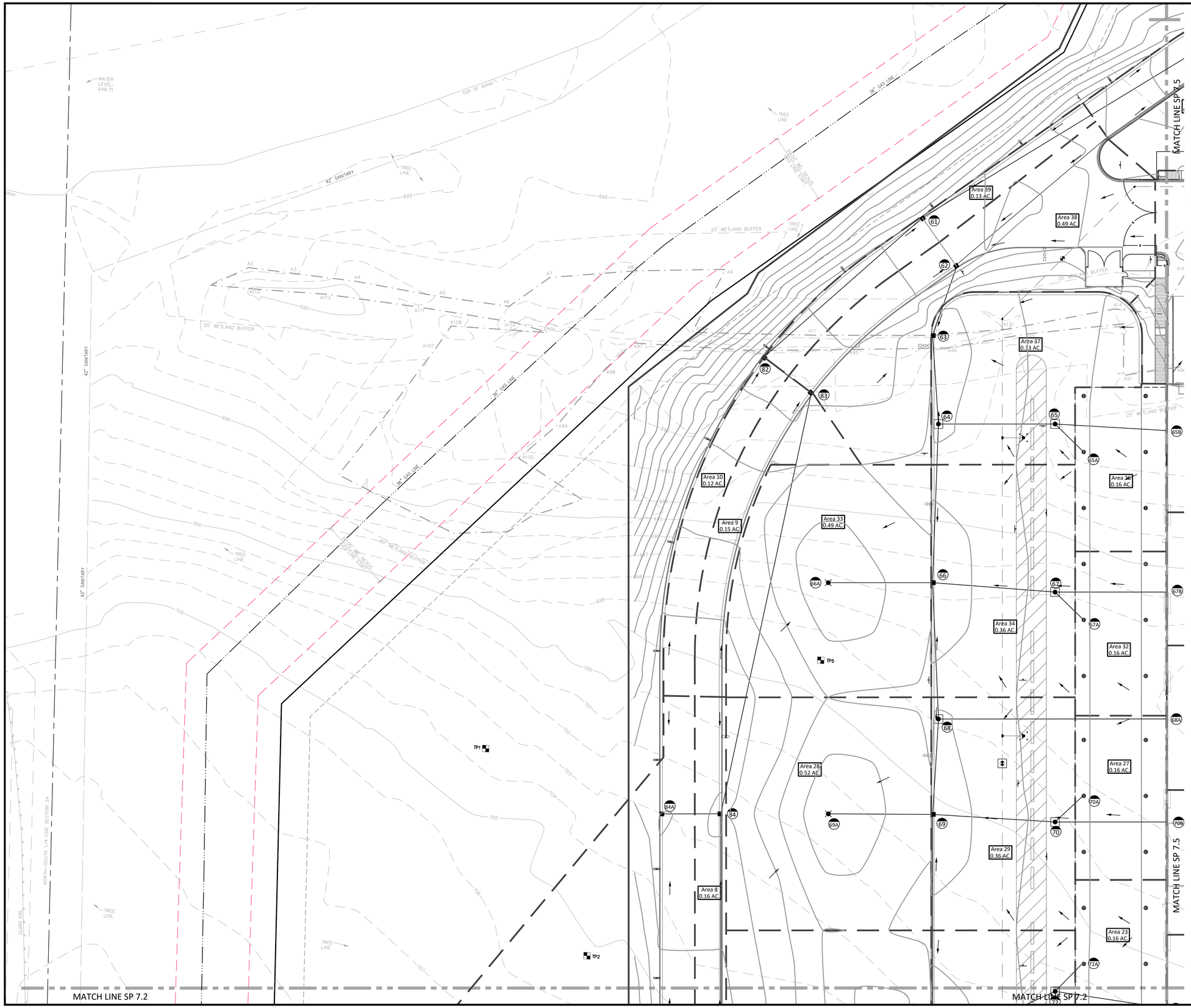
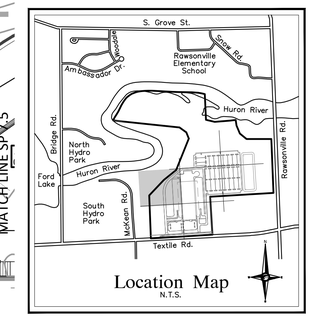
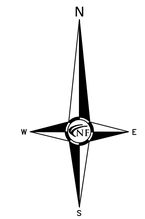
NFE JOB NO. M278-01

SHEET NO. SP 7.3







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PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Drainage Area Plan

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
J. Lawrey

DESIGNED BY:
B. Brickel

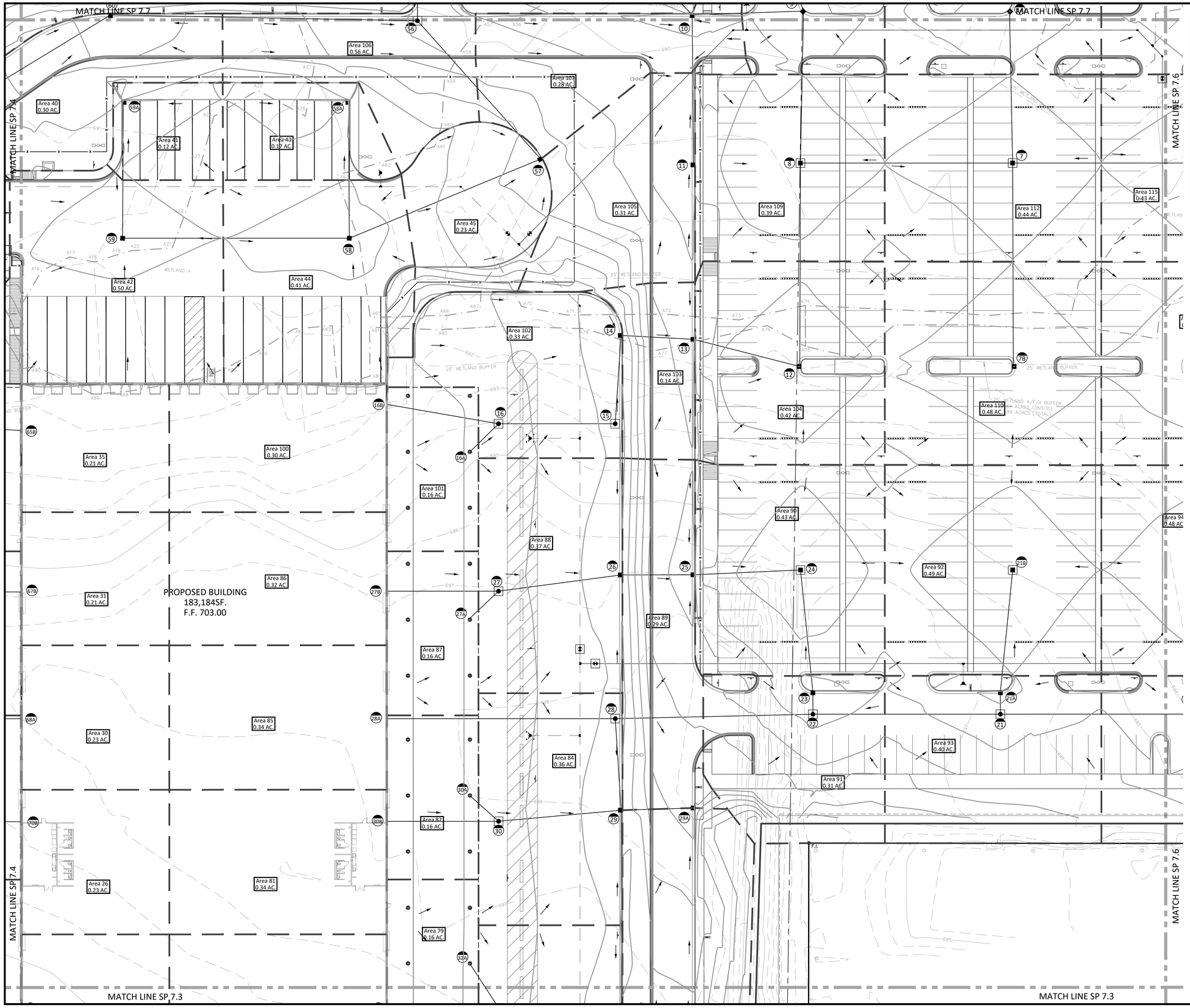
APPROVED BY:
B. Brickel

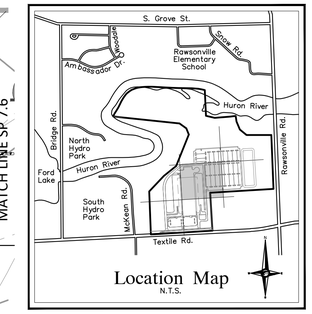
DATE:
September 24, 2021

SCALE: 1" = 30'
30 15 0 15 30 45

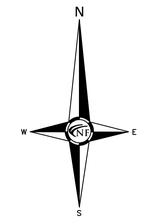
NFE JOB NO. M278-01

SHEET NO. SP 7.4





Location Map
N.T.S.



NOTES

REFER TO SHEET SP 7.1 FOR SOIL EROSION CONTROL NOTES & DETAILS..

LEGEND

— — —	INDICATES LIMITS OF DRAINAGE DISTRICT AREA
———	INDICATES LIMITS OF EARTH DISRUPTION
AREA A 0.00 ACRE	INDICATES DRAINAGE DISTRICT AREA

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

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PONTIAC, MI 48342-5032
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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

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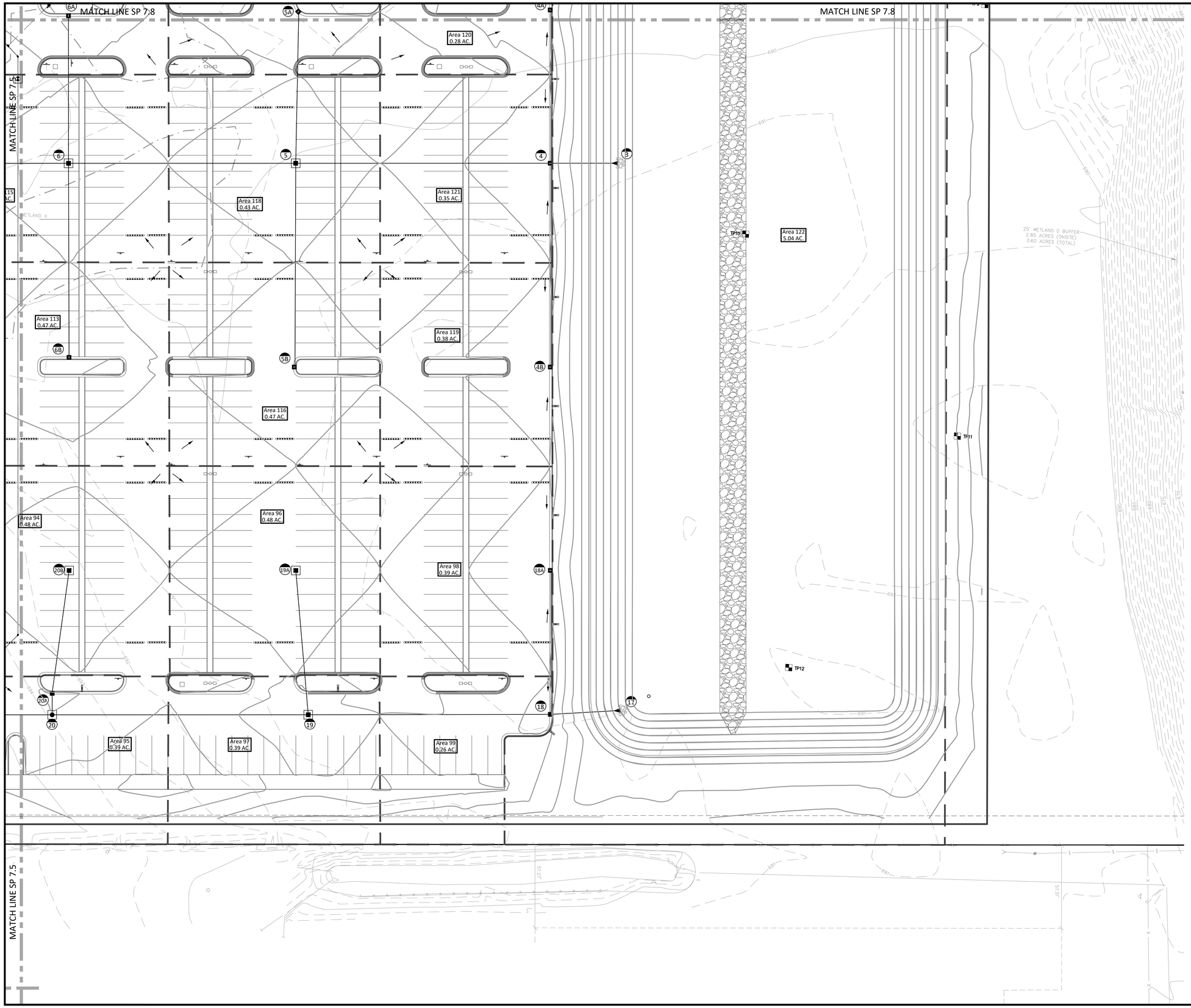

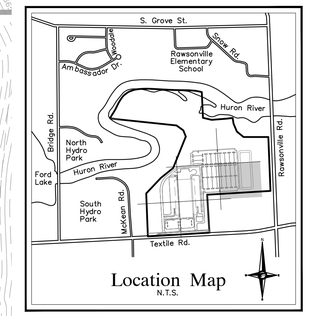

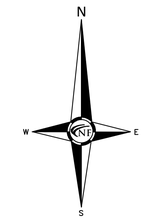

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M278-01

SHEET NO.
SP 7.6

NOTES

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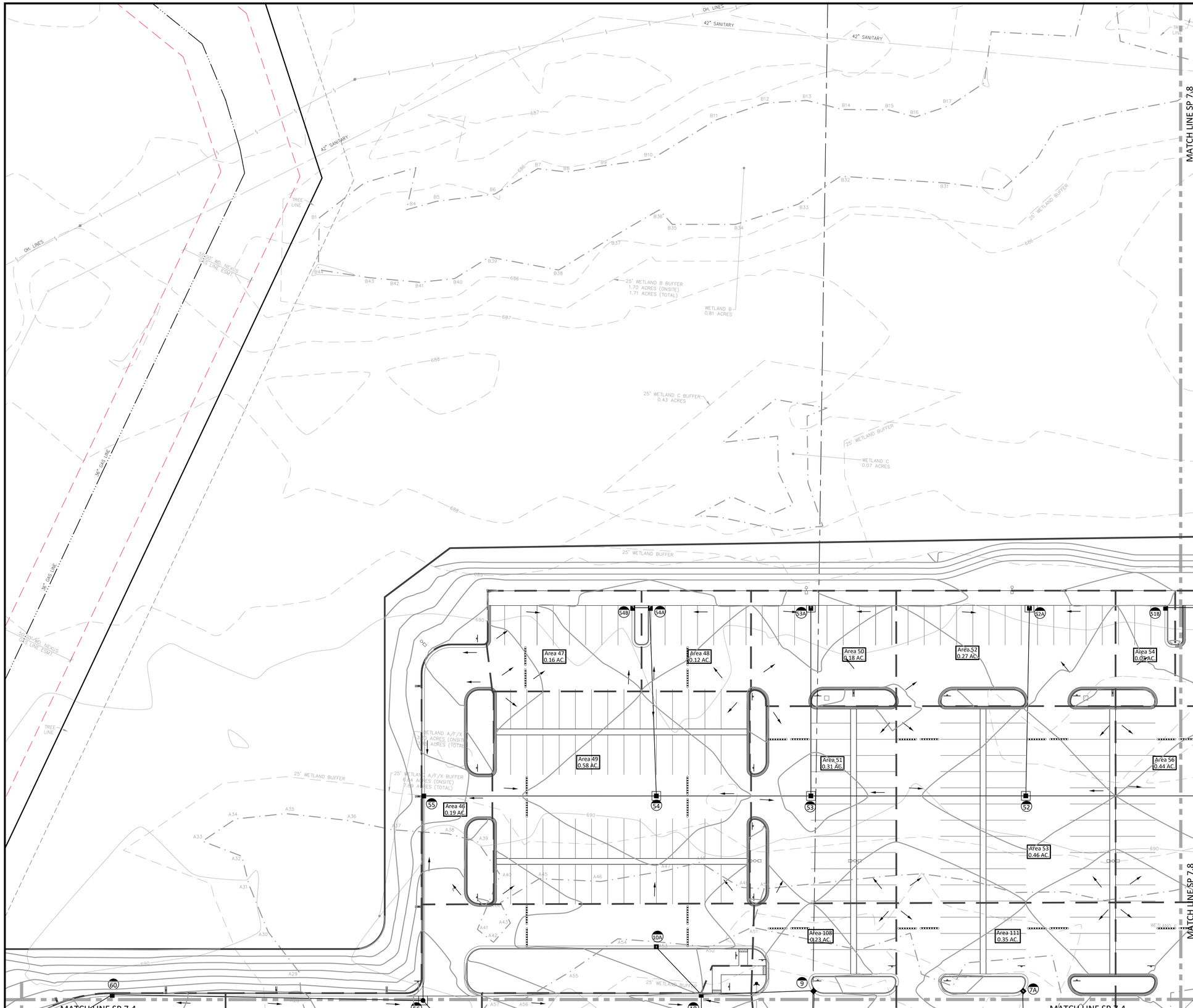

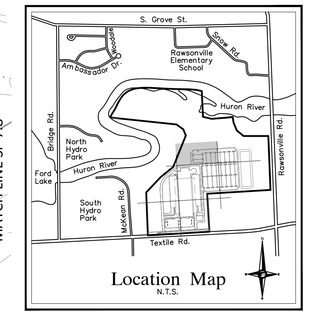

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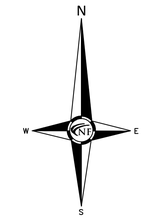

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SHEET NO. SP 7.7

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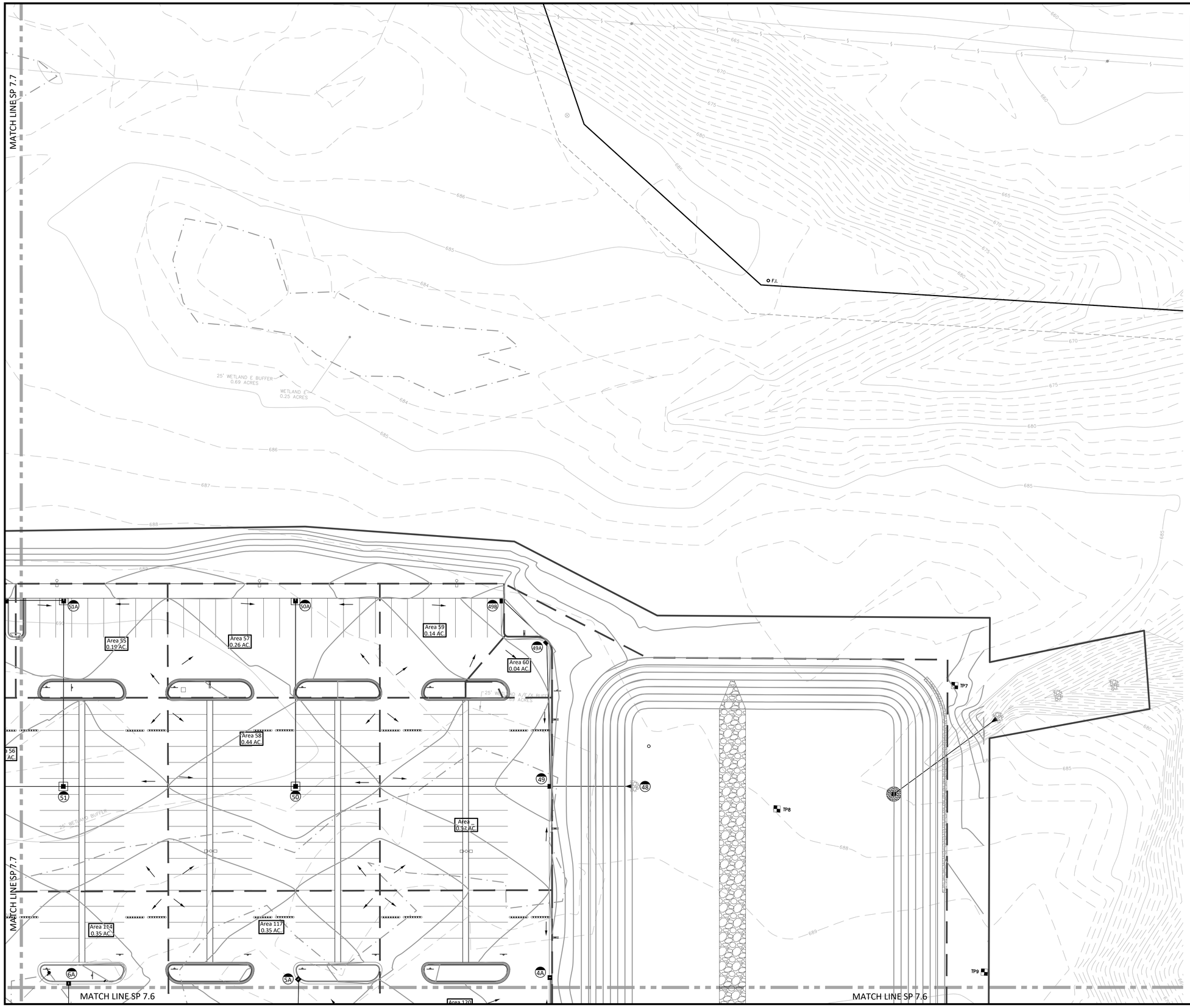

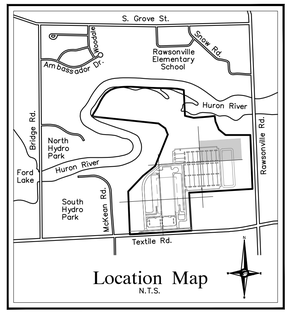

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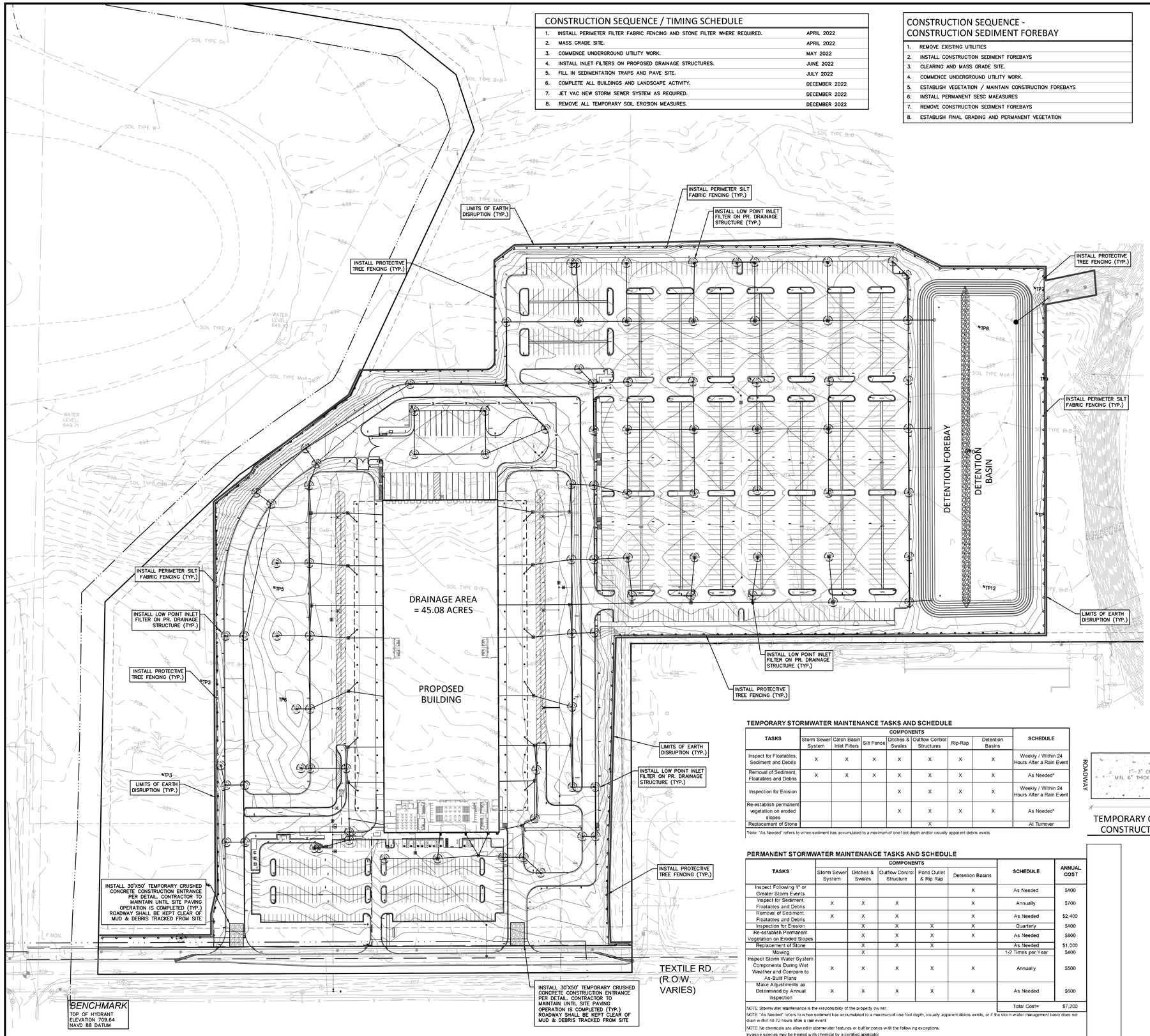
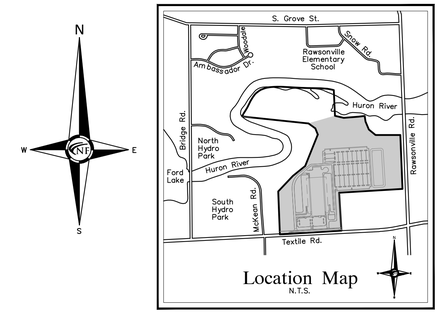
CONSTRUCTION SEQUENCE / TIMING SCHEDULE

1.	INSTALL PERIMETER FILTER FABRIC FENCING AND STONE FILTER WHERE REQUIRED.	APRIL 2022
2.	MASS GRADE SITE.	APRIL 2022
3.	COMMENCE UNDERGROUND UTILITY WORK.	MAY 2022
4.	INSTALL INLET FILTERS ON PROPOSED DRAINAGE STRUCTURES.	JUNE 2022
5.	FILL IN SEDIMENTATION TRAPS AND PAVE SITE.	JULY 2022
6.	COMPLETE ALL BUILDINGS AND LANDSCAPE ACTIVITY.	DECEMBER 2022
7.	JET VAC NEW STORM SEWER SYSTEM AS REQUIRED.	DECEMBER 2022
8.	REMOVE ALL TEMPORARY SOIL EROSION MEASURES.	DECEMBER 2022

CONSTRUCTION SEQUENCE - CONSTRUCTION SEDIMENT FOREBAY

1.	REMOVE EXISTING UTILITIES
2.	INSTALL CONSTRUCTION SEDIMENT FOREBAYS
3.	CLEARING AND MASS GRADE SITE.
4.	COMMENCE UNDERGROUND UTILITY WORK.
5.	ESTABLISH VEGETATION / MAINTAIN CONSTRUCTION FOREBAYS
6.	INSTALL PERMANENT SESC MAEASURES
7.	REMOVE CONSTRUCTION SEDIMENT FOREBAYS
8.	ESTABLISH FINAL GRADING AND PERMANENT VEGETATION





SOIL EROSION CONTROL - SEQUENCE OF OPERATION (NEW CONSTRUCTION)

INSTALL CRUSHED CONCRETE ACCESS DRIVE AND TEMPORARY CULVERTS AT THE SITE ENTRANCE AS INDICATED ON THE PLANS.

INSTALL SILT FENCE OR SIMILAR APPROVED SILT BARRIER ALONG PROPERTY LINES AND AROUND SENSITIVE NATURAL FEATURES AS INDICATED ON THE PLANS.

EXCAVATE A SHALLOW SWALE/DITCH AROUND PERIMETER OF SITE. GRADE THE TEMPORARY SWALE TO AN EXISTING DRAINAGE FACILITY. PLACE OUTLET FILTER IN EXISTING UPSTREAM STORM SEWER FACILITIES.

IF INDICATED ON CONSTRUCTION PLANS, SEDIMENTATION BASINS, DETENTION POND, ETC., SHALL BE CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY OTHER WORK.

STRIP EXISTING TOPSOIL, VEGETATION AND ORGANIC MATTER FROM BUILDING PAD AND PARKING AREAS. COMMENCE LAND BALANCE AND MASS GRADING OPERATIONS. MAINTAIN A MINIMUM BUFFER OF 15' OF EXISTING VEGETATION WHEREVER POSSIBLE AROUND SITE PERIMETER. STOCK PILES SHOULD BE LOCATED AWAY FROM EXISTING DRAINAGE FACILITIES.

EXCAVATE AND INSTALL UNDERGROUND UTILITIES. INSTALL PEASTONE INLET FILTERS AROUND ALL NEW STORM SEWER FACILITIES AS INDICATED ON THE PLANS. EXISTING AND PROPOSED STORM SEWER FACILITIES SHALL BE PROTECTED FROM EROSION AND SEDIMENT INFILTRATION AT ALL TIMES.

COMMENCE FINAL GRADING AND TRIMMING OPERATIONS. PREPARE SUBGRADE FOR INSTALLATION OF PROPOSED PAVEMENT.

SEED AND MULCH ALL DISTURBED SITE AREAS AND INSTALLED SITE LANDSCAPING.

REMOVE CONSTRUCTION DEBRIS AND JET VAC NEWLY INSTALLED STORM SEWER SYSTEM AS REQUIRED BY THE MUNICIPALITY.

REMOVE ALL REMAINING TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ONCE PERMANENT MEASURES ARE ESTABLISHED.

WHENEVER POSSIBLE, THE SITE SHALL BE GRADED TO WITHIN SIX INCHES (6") OF THE PROPOSED FINISH GRADE PRIOR TO INSTALLATION OF UNDERGROUND FACILITIES.

STAGING OF PROPOSED WORK SHALL BE COMPLETED BY THE CONTRACTOR AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED AREAS.

SOIL EROSION CONTROL

CUTTING, FILLING AND GRADING SHALL BE MINIMIZED AND THE NATURAL TOPOGRAPHY OF THE SITE SHALL BE PRESERVED TO THE MAXIMUM POSSIBLE EXTENT, EXCEPT WHERE SPECIFIC FINDINGS DEMONSTRATE THAT MAJOR ALTERATIONS WILL STILL MEET THE PURPOSES AND REQUIREMENTS OF THIS ORDINANCE.

DEVELOPMENT SHALL BE STAGED TO KEEP THE EXPOSED AREAS OF SOIL AS SMALL AS PRACTICABLE.

SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED BETWEEN THE DISTURBED AREA AND ANY WATERCOURSES, INCLUDING RIVERS, STREAMS, CREEKS, LAKES, PONDS AND OTHER WATERCOURSES; WETLANDS; OR ROADWAYS ON OR NEAR THE SITE.

SEDIMENT RESULTING FROM ACCELERATED SOIL EROSION SHALL BE REMOVES FROM RUNOFF WATER BEFORE THAT WATER LEAVES THE SITE.

TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR AWAY FROM THE SITE SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.

TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AFTER PERMANENT SOIL EROSION CONTROL MEASURES HAVE BEEN IMPLEMENTED. ALL SITES SHALL BE STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES.

IF LAKES, PONDS, CREEKS, STREAMS, OR WETLANDS ARE LOCATED ON OR NEAR THE SITE, EROSION CONTROL MEASURES WHICH DIVERT RUNOFF AND TRAP SEDIMENT MUST BE PROVIDED AT STRATEGIC LOCATIONS. STRAW BALE BERMS MAY BE USED AS TEMPORARY STORMWATER DIVERSION STRUCTURES, BUT WILL NOT BE CONSIDERED SUFFICIENT FOR TRAPPING SEDIMENT. THE USE OF SEDIMENT BASINS, FILTER FABRIC, VEGETATED BUFFER STRIPS, AND ROCK FILTERS IN LIEU OF STRAW BALE BERMS SHALL BE STRONGLY ENCOURAGED. OTHER MEASURES MAY BE REQUIRED IF REASONABLY DETERMINED TO BE NECESSARY TO PROTECT A WATERCOURSE OR WETLAND.

WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHEN SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED.

PERMANENT EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 (FIFTEEN) CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.

VEGETATED BUFFER STRIPS SHALL BE CREATED OR RETAINED ALONG THE EDGES OF ALL LAKES, PONDS, CREEKS, STREAMS, OTHER WATERCOURSES, OR WETLANDS.

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL RECEIVE REGULAR MAINTENANCE TO ASSURE PROPER FUNCTIONING.

ALL GRADING PLANS AND SPECIFICATIONS, INCLUDING EXTENSIONS OF PREVIOUSLY APPROVED PLANS, SHALL INCLUDE PROVISIONS FOR EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE STANDARDS CONTAINED IN THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PUBLISHED BY THE OAKLAND SOIL CONSERVATION DISTRICT.

DEWATERING NOTE

DUE TO THE HIGH WATER TABLE, THE CONTRACTOR SHALL ACCOUNT FOR THE POTENTIAL TO DEWATER PORTIONS OF THE SITE DURING CONSTRUCTION.

TEMPORARY STORMWATER MAINTENANCE TASKS AND SCHEDULE

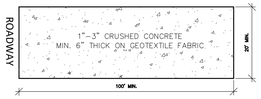
TASKS	COMPONENTS							SCHEDULE
	Storm Sewer System	Catch Basin Inlet Filters	Silt Fence	Ditches & Swales	Outflow Control Structures	Rip-Rap	Detention Basins	
Inspect for Floatables, Sediment and Debris	X	X	X	X	X	X	X	Weekly / Within 24 Hours After a Rain Event
Removal of Sediment, Floatables and Debris	X	X	X	X	X	X	X	As Needed*
Inspection for Erosion				X	X	X	X	Weekly / Within 24 Hours After a Rain Event
Re-establish permanent vegetation on eroded slopes				X	X	X	X	As Needed*
Replacement of Stone					X			At Turnover

*Note: "As Needed" refers to when sediment has accumulated to a maximum of one foot depth and/or visually apparent debris exists

PERMANENT STORMWATER MAINTENANCE TASKS AND SCHEDULE

TASKS	COMPONENTS					SCHEDULE	ANNUAL COST
	Storm Sewer System	Ditches & Swales	Outflow Control Structure	Pond Outlet & Rip Rap	Detention Basins		
Inspect Following 1" or Greater Storm Events					X	As Needed	$400
Inspect for Sediment, Floatables and Debris	X	X	X		X	Annually	$700
Removal of Sediment, Floatables and Debris	X	X	X		X	As Needed	$2,400
Inspection for Erosion		X	X	X	X	Quarterly	$400
Re-establish Permanent Vegetation on Eroded Slopes		X	X	X	X	As Needed	$800
Replacement of Stone		X	X	X		As Needed	$1,000
Mowing		X				1-2 Times per Year	$400
Inspect Storm Water System Components During Wet Weather and Compare to As-Built Plans	X	X	X	X	X	Annually	$500
Make Adjustments as Determined by Annual Inspection	X	X	X	X	X	As Needed	$600
						Total Cost=	$7,200

NOTE: Stormwater maintenance is the responsibility of the property owner.
NOTE: "As Needed" refers to when sediment has accumulated to a maximum of one foot depth, visually apparent debris exists, or if the storm water management basin does not drain within 48-72 hours after a rain event
NOTE: No chemicals are allowed in stormwater features or buffer zones with the following exceptions:
Invasive species may be treated with chemical by a certified applicator



TEMPORARY CRUSHED CONCRETE CONSTRUCTION ACCESS ROAD

NOTES

A DISTANCE OF ±190 TO THE NEAREST BODY OF WATER (HURON RIVER).

THE TOTAL AREA OF EARTH DISRUPTION IS ±44.33 ACRES.

THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY CONTRACTOR.

A SOIL EROSION PERMIT IS REQUIRED FROM THE WASHTENAW COUNTY.

SOIL DATA

THIS SITE CONSISTS OF BOYER LOAMY SAND, 1 TO 6 PERCENT SLOPES (58.1%) COHOCTAH FINE SANDY LOAM, FREQUENTLY FLOODED (10.3%), GILFORD SANDY LOAM, TILL PLAIN, 0 TO 2 PERCENT SLOPES (6.1%), MACOMB LOAM, 0 TO 4 PERCENT SLOPES (17.8%), METAMORA SANDY LOAM, 0 TO 4 PERCENT SLOPES (2.4%) AND OWOSSO-MIAMI COMPLEX, 2 TO 6 PERCENT SLOPES (4.0%) BASED ON DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE.

NOTE

NO EXISTING TREES SHALL BE REMOVED FROM WITHIN EXISTING WETLANDS.

ESTIMATED QUANTITIES

SOIL EROSION

DESCRIPTION	QUANTITY	UNITS
SILT FABRIC FENCING	6,900	L.F.
INLET FILTER	94	EA.

LEGEND

- INDICATES LIMITS OF SILT FABRIC FENCE
- INDICATES LIMITS OF SOIL DISRUPTION
- INDICATES LOW POINT INLET FILTER OR PROPOSED DRAINAGE STRUCTURE
- INDICATES SILT SACK OR EQUAL ON EXISTING DRAINAGE STRUCTURE
- AREA A 0.00 ACRE — INDICATES DRAINAGE DISTRICT AREA

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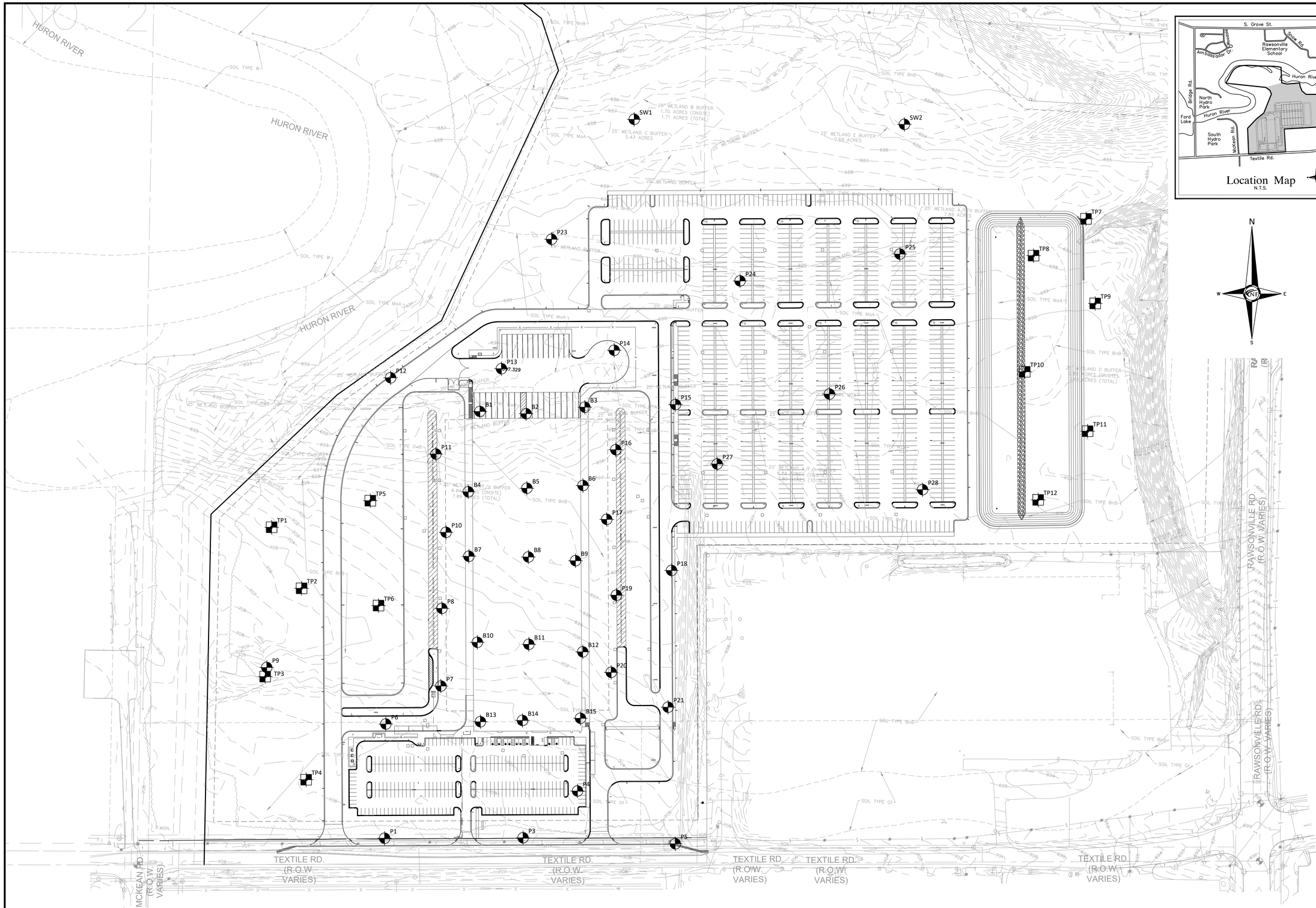
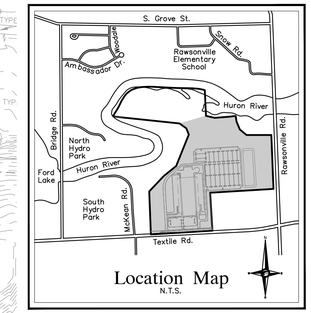
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 100'

NFE JOB NO. M278-01
SHEET NO. SP 7.9





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SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Soil Boring And Test Pit Location Plan

811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
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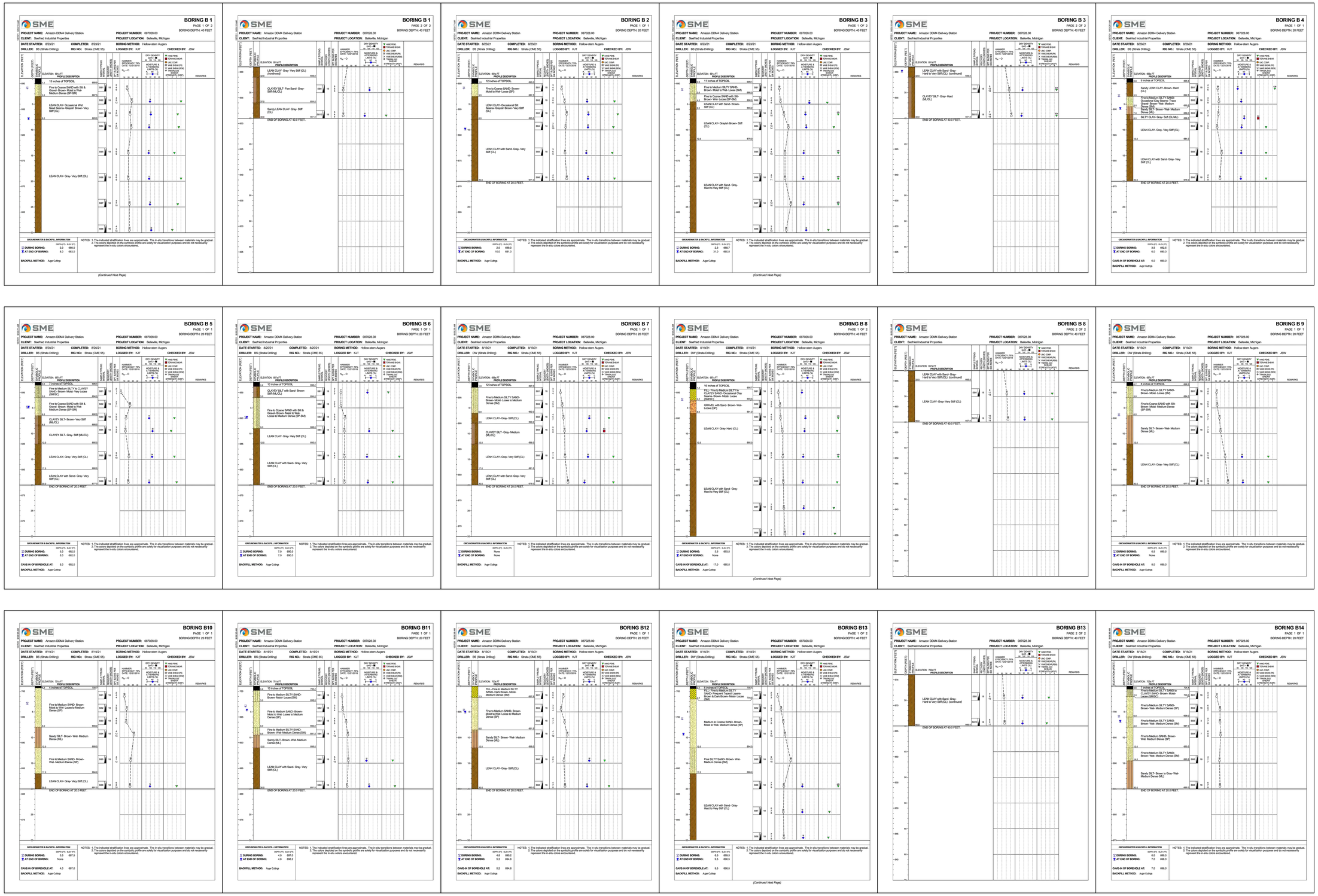
SCALE: 1" = 100'
100 50 0 50 100 150

NFE JOB NO. M278-01
SHEET NO. SP 7.10

LEGEND
APPROXIMATE BORING LOCATION
PROPOSED TEST PIT LOCATION



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Soil Boring & Infiltration Reports Plan

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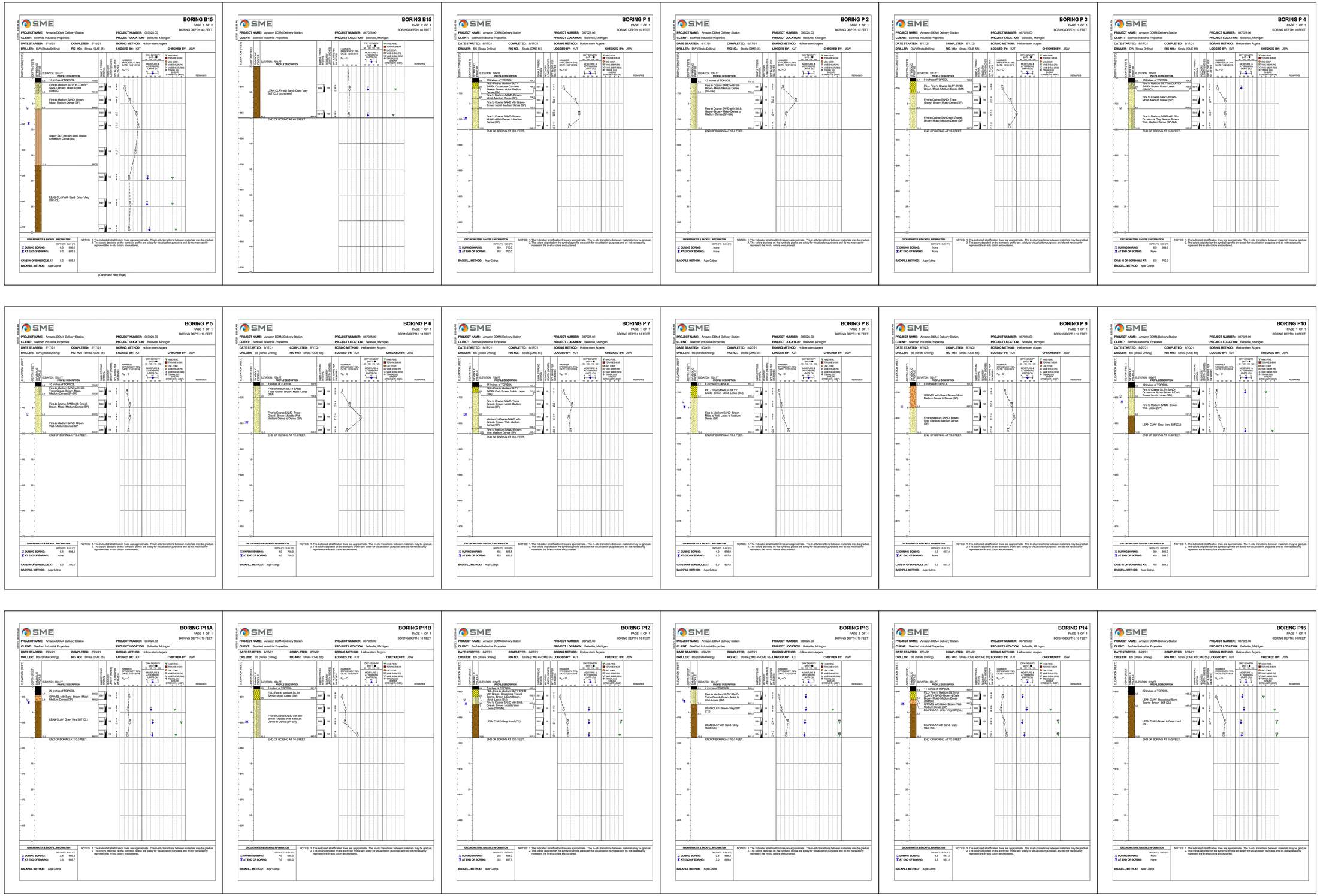
NFE JOB NO.
M278-01

SHEET NO.
SP 7.11



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DRAWN BY:
J. Lawrey

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B. Brickel

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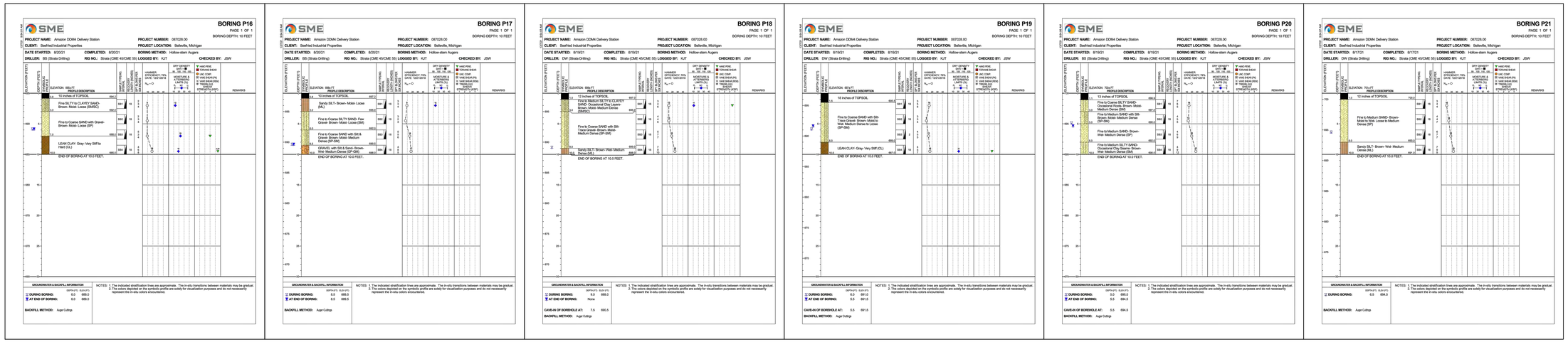
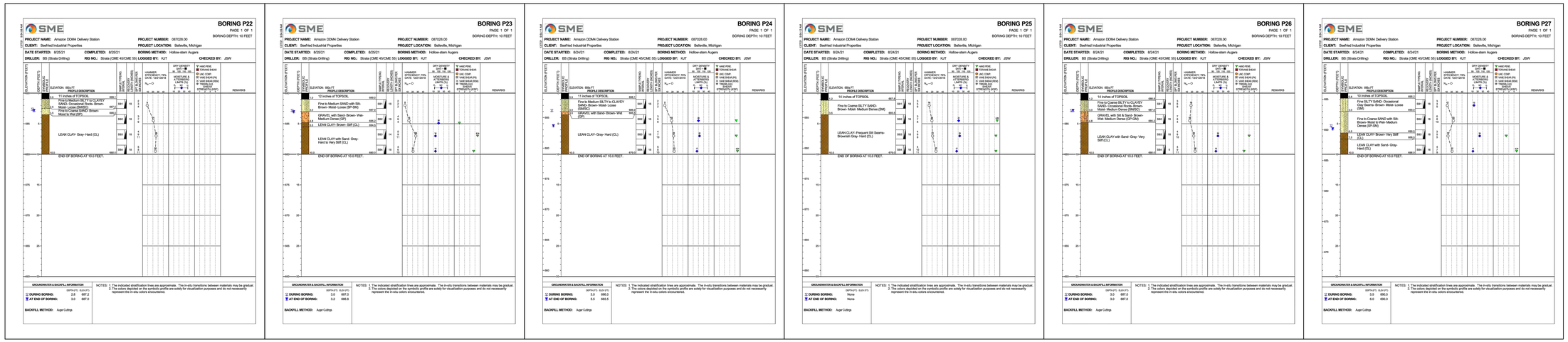
DATE:
September 24, 2021

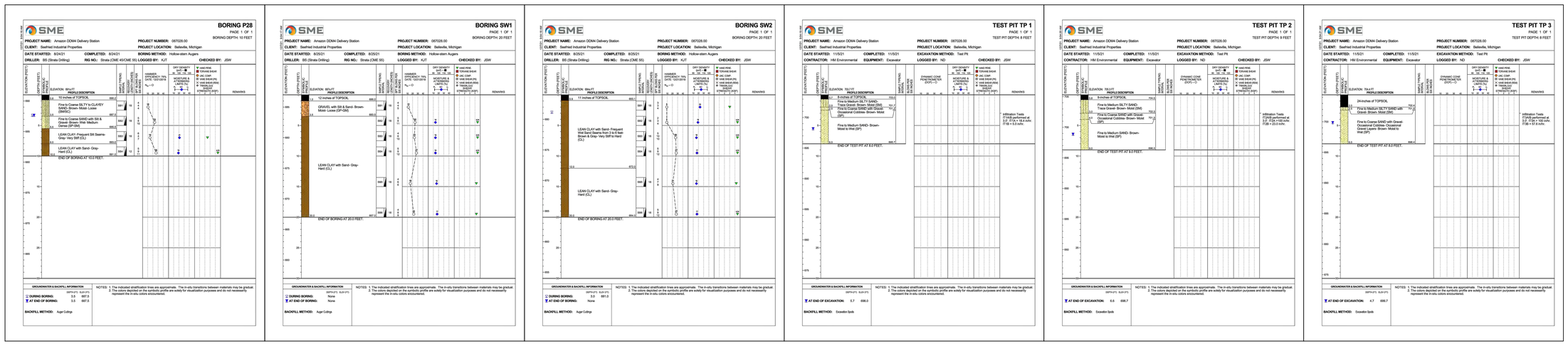
SCALE: N.T.S.

NFE JOB NO.
M278-01

SHEET NO.
SP 7.12







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2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: N.T.S.

NFE JOB NO. M278-01
SHEET NO. SP 7.13

SME — TEST PIT TP 4

12/7/21 9:54:22 AM — PAGE 1 OF 1 — TEST PIT DEPTH: 10 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/5/21 — COMPLETED: 11/5/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 708.5 FT

Depth (ft)	Profile Description	Elev (ft)
1.4	15-inches of TOPSOIL	707.1
3.0	Fine to Medium SILTY SAND with Gravel- Occasional Roots- Brown- Moist (SM)	705.5
10.0	Fine to Coarse SAND with Gravel- Occasional Cobbles- Occasional Gravel Layers- Brown- Moist to Wet (SP)	698.5

END OF TEST PIT AT 10.0 FEET.

REMARKS: Infiltration Tests IT4A/B performed at 4.0'. IT4A = 50.4 in/hr. IT4B = 26.6 in/hr.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 8.3, Elev (ft) 700.2. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME — TEST PIT TP 5

12/7/21 9:54:23 AM — PAGE 1 OF 1 — TEST PIT DEPTH: 6 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/5/21 — COMPLETED: 11/5/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 699.4 FT

Depth (ft)	Profile Description	Elev (ft)
0.3	4-inches of TOPSOIL	699.1
6.0	Fine to Medium SAND with Silt- Occasional Cobbles- Brown- Moist to Wet (SP-SM)	693.4

END OF TEST PIT AT 6.0 FEET.

REMARKS: Infiltration Tests IT5A/B performed at 1.5'. IT5A = 3.6 in/hr. IT5B = 3.6 in/hr.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 3.7, Elev (ft) 695.7. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME — TEST PIT TP 6

12/7/21 9:54:24 AM — PAGE 1 OF 1 — TEST PIT DEPTH: 8 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/5/21 — COMPLETED: 11/5/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 703.8 FT

Depth (ft)	Profile Description	Elev (ft)
0.7	8-inches of TOPSOIL	703.1
2.0	Fine to Medium SILTY SAND- Occasional Cobbles- Brown- Moist (SM)	701.8
3.0	Fine to Coarse SAND with Gravel- Occasional Cobbles- Brown- Moist (SP)	700.8
8.0	Fine to Medium SAND- Brown- Moist to Wet (SP)	695.8

END OF TEST PIT AT 8.0 FEET.

REMARKS: Infiltration Tests IT6A/B performed at 3.5'. IT6A = 10.1 in/hr. IT6B = 21.6 in/hr.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 5.2, Elev (ft) 698.6. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME — TEST PIT TP 7

PAGE 1 OF 1 — TEST PIT DEPTH: 7 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/8/21 — COMPLETED: 11/8/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 686.7 FT

Depth (ft)	Profile Description	Elev (ft)
1.5	18-inches of TOPSOIL	685.2
4.0	Fine to Medium SILTY to CLAYEY SAND- Occasional Cobbles- Brown- Moist to Wet (SM/SC)	682.7
7.0	LEAN CLAY with Sand- Brown and Gray (CL)	679.7

END OF TEST PIT AT 7.0 FEET.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 2.7, Elev (ft) 684.0. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME — TEST PIT TP 8

PAGE 1 OF 1 — TEST PIT DEPTH: 7 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/8/21 — COMPLETED: 11/8/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 687.9 FT

Depth (ft)	Profile Description	Elev (ft)
1.2	14-inches of TOPSOIL	686.7
4.0	Fine to Medium SILTY to CLAYEY SAND- Occasional Cobbles- Brown- Moist to Wet (SM/SC)	683.9
7.0	LEAN CLAY with Sand- Brown and Gray (CL)	680.9

END OF TEST PIT AT 7.0 FEET.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 3.6, Elev (ft) 684.3. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME — TEST PIT TP 9

12/7/21 9:54:27 AM — PAGE 1 OF 1 — TEST PIT DEPTH: 9 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/8/21 — COMPLETED: 11/8/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 690.4 FT

Depth (ft)	Profile Description	Elev (ft)
0.8	8-inches of TOPSOIL	689.6
3.0	Fine to Medium SILTY to CLAYEY SAND- Occasional Cobbles- Brown- Moist (SM/SC)	687.4
7.0	Medium to Coarse SAND with Gravel- Occasional Cobbles- Occasional Gravel Layers- Brown- Moist to Wet (SP)	683.4
9.0	LEAN CLAY with Sand- Brown and Gray (CL)	681.4

END OF TEST PIT AT 9.0 FEET.

REMARKS: Infiltration Tests IT9A performed at 1.5'. IT9A = 63.0 in/hr.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 5.0, Elev (ft) 685.4. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME — TEST PIT TP10

12/7/21 9:54:28 AM — PAGE 1 OF 1 — TEST PIT DEPTH: 7 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/8/21 — COMPLETED: 11/8/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 691.8 FT

Depth (ft)	Profile Description	Elev (ft)
0.8	8-inches of TOPSOIL	691.0
2.5	Fine to Medium SILTY to CLAYEY SAND- Frequent Roots- Occasional Cobbles- Brown- Moist (SM/SC)	689.3
6.0	Medium to Coarse SAND with Gravel- Occasional Cobbles- Occasional Gravel Layers- Brown- Moist to Wet (SP)	685.8
7.0	LEAN CLAY with Sand- Brown and Gray (CL)	684.8

END OF TEST PIT AT 7.0 FEET.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 4.0, Elev (ft) 687.8. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME — TEST PIT TP11

12/7/21 9:54:29 AM — PAGE 1 OF 1 — TEST PIT DEPTH: 10 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/8/21 — COMPLETED: 11/8/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 691.4 FT

Depth (ft)	Profile Description	Elev (ft)
1.0	12-inches of TOPSOIL	690.4
3.5	Fine to Medium SILTY to CLAYEY SAND- Frequent Roots to 2.5'- Occasional Cobbles- Brown- Moist (SM/SC)	687.9
7.0	Medium to Coarse SAND with Gravel- Occasional Cobbles- Brown- Moist to Wet (SP)	684.4
10.0	LEAN CLAY with Sand- Brown and Gray (CL)	681.4

END OF TEST PIT AT 10.0 FEET.

REMARKS: Infiltration Tests IT11A/B performed at 4.0'. IT11A = 47.5 in/hr. IT11B = 61.9 in/hr.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 6.3, Elev (ft) 685.1. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

SME — TEST PIT TP12

12/7/21 9:54:30 AM — PAGE 1 OF 1 — TEST PIT DEPTH: 6 FEET

PROJECT NAME: Amazon DDM4 Delivery Station — PROJECT NUMBER: 087028.00
CLIENT: Seefried Industrial Properties — PROJECT LOCATION: Belleville, Michigan
DATE STARTED: 11/8/21 — COMPLETED: 11/8/21 — EXCAVATION METHOD: Test Pit
CONTRACTOR: HM Environmental — EQUIPMENT: Excavator — LOGGED BY: ND — CHECKED BY: JSW

ELEVATION: 690.7 FT

Depth (ft)	Profile Description	Elev (ft)
1.0	12-inches of TOPSOIL	689.7
2.5	Fine to Medium SILTY to CLAYEY SAND- Occasional Cobbles- Brown- Moist (SM/SC)	688.2
6.0	Fine to Medium SAND- Brown- Moist to Wet (SP)	684.7

END OF TEST PIT AT 6.0 FEET.

GROUNDWATER & BACKFILL INFORMATION — AT END OF EXCAVATION: Depth (ft) 3.3, Elev (ft) 687.4. BACKFILL METHOD: Excavation Spoils

NOTES: 1. The indicated stratification lines are approximate. The in-situ transitions between materials may be gradual. 2. The colors depicted on the symbolic profile are solely for visualization purposes and do not necessarily represent the in-situ colors encountered.

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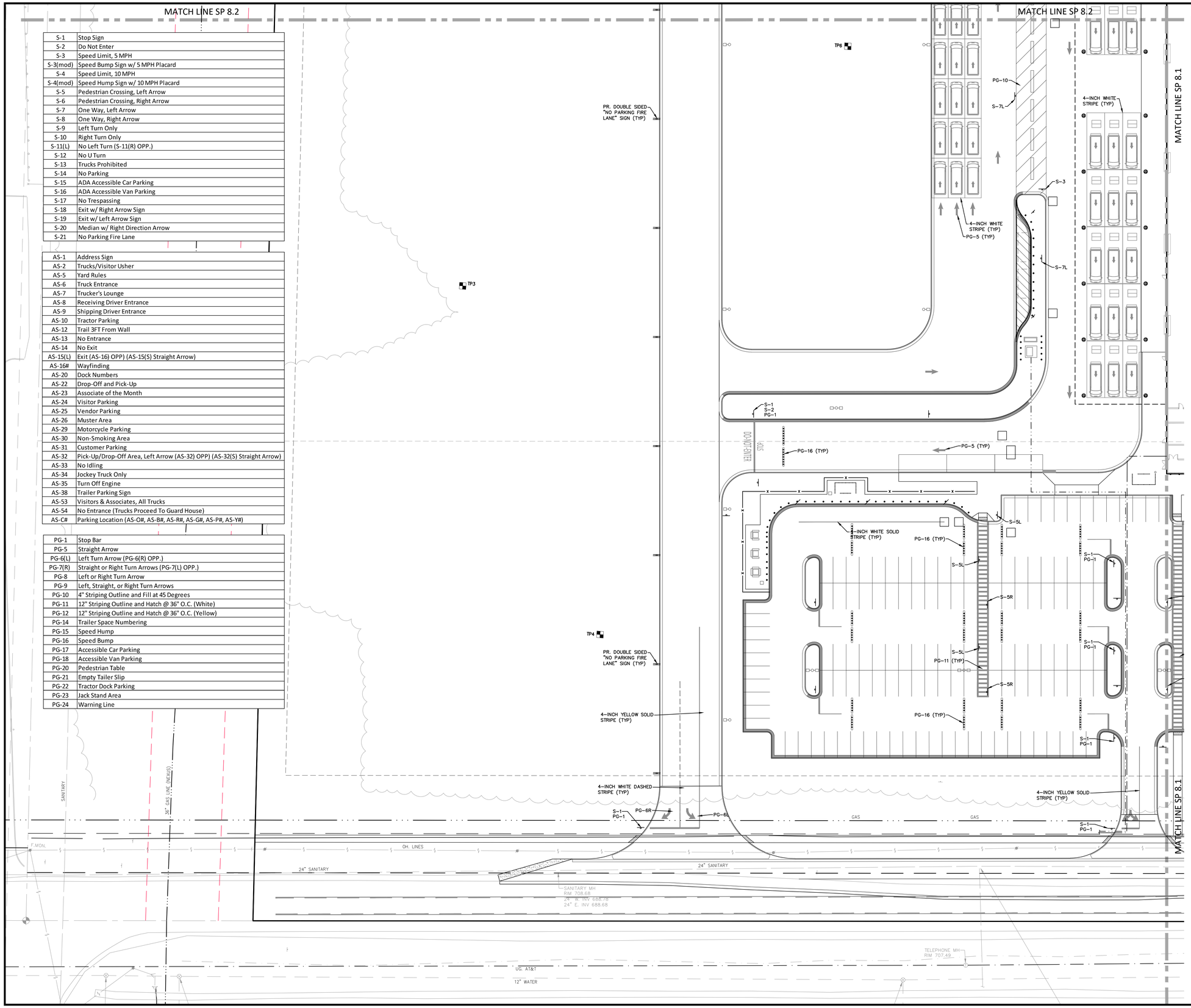
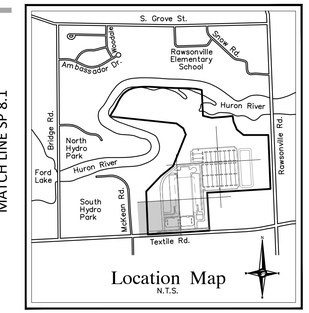


S-1	Stop Sign
S-2	Do Not Enter
S-3	Speed Limit, 5 MPH
S-3(mod)	Speed Bump Sign w/ 5 MPH Placard
S-4	Speed Limit, 10 MPH
S-4(mod)	Speed Hump Sign w/ 10 MPH Placard
S-5	Pedestrian Crossing, Left Arrow
S-6	Pedestrian Crossing, Right Arrow
S-7	One Way, Left Arrow
S-8	One Way, Right Arrow
S-9	Left Turn Only
S-10	Right Turn Only
S-11(L)	No Left Turn (S-11(R) OPP.)
S-12	No U Turn
S-13	Trucks Prohibited
S-14	No Parking
S-15	ADA Accessible Car Parking
S-16	ADA Accessible Van Parking
S-17	No Trespassing
S-18	Exit w/ Right Arrow Sign
S-19	Exit w/ Left Arrow Sign
S-20	Median w/ Right Direction Arrow
S-21	No Parking Fire Lane

AS-1	Address Sign
AS-2	Trucks/Visitor Usher
AS-5	Yard Rules
AS-6	Truck Entrance
AS-7	Trucker's Lounge
AS-8	Receiving Driver Entrance
AS-9	Shipping Driver Entrance
AS-10	Tractor Parking
AS-12	Trail 3FT From Wall
AS-13	No Entrance
AS-14	No Exit
AS-15(L)	Exit (AS-16) OPP) (AS-15(S) Straight Arrow)
AS-16#	Wayfinding
AS-20	Dock Numbers
AS-22	Drop-Off and Pick-Up
AS-23	Associate of the Month
AS-24	Visitor Parking
AS-25	Vendor Parking
AS-26	Muster Area
AS-29	Motorcycle Parking
AS-30	Non-Smoking Area
AS-31	Customer Parking
AS-32	Pick-Up/Drop-Off Area, Left Arrow (AS-32) OPP) (AS-32(S) Straight Arrow)
AS-33	No Idling
AS-34	Jockey Truck Only
AS-35	Turn Off Engine
AS-38	Trailer Parking Sign
AS-53	Visitors & Associates, All Trucks
AS-54	No Entrance (Trucks Proceed To Guard House)
AS-C#	Parking Location (AS-O#, AS-B#, AS-R#, AS-G#, AS-P#, AS-Y#)

PG-1	Stop Bar
PG-5	Straight Arrow
PG-6(L)	Left Turn Arrow (PG-6(R) OPP.)
PG-7(R)	Straight or Right Turn Arrows (PG-7(L) OPP.)
PG-8	Left or Right Turn Arrow
PG-9	Left, Straight, or Right Turn Arrows
PG-10	4" Striping Outline and Fill at 45 Degrees
PG-11	12" Striping Outline and Hatch @ 36" O.C. (White)
PG-12	12" Striping Outline and Hatch @ 36" O.C. (Yellow)
PG-14	Trailer Space Numbering
PG-15	Speed Hump
PG-16	Speed Bump
PG-17	Accessible Car Parking
PG-18	Accessible Van Parking
PG-20	Pedestrian Table
PG-21	Empty Tailer Slip
PG-22	Tractor Dock Parking
PG-23	Jack Stand Area
PG-24	Warning Line



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DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
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SCALE: 1" = 30'

NFE JOB NO. M278-01
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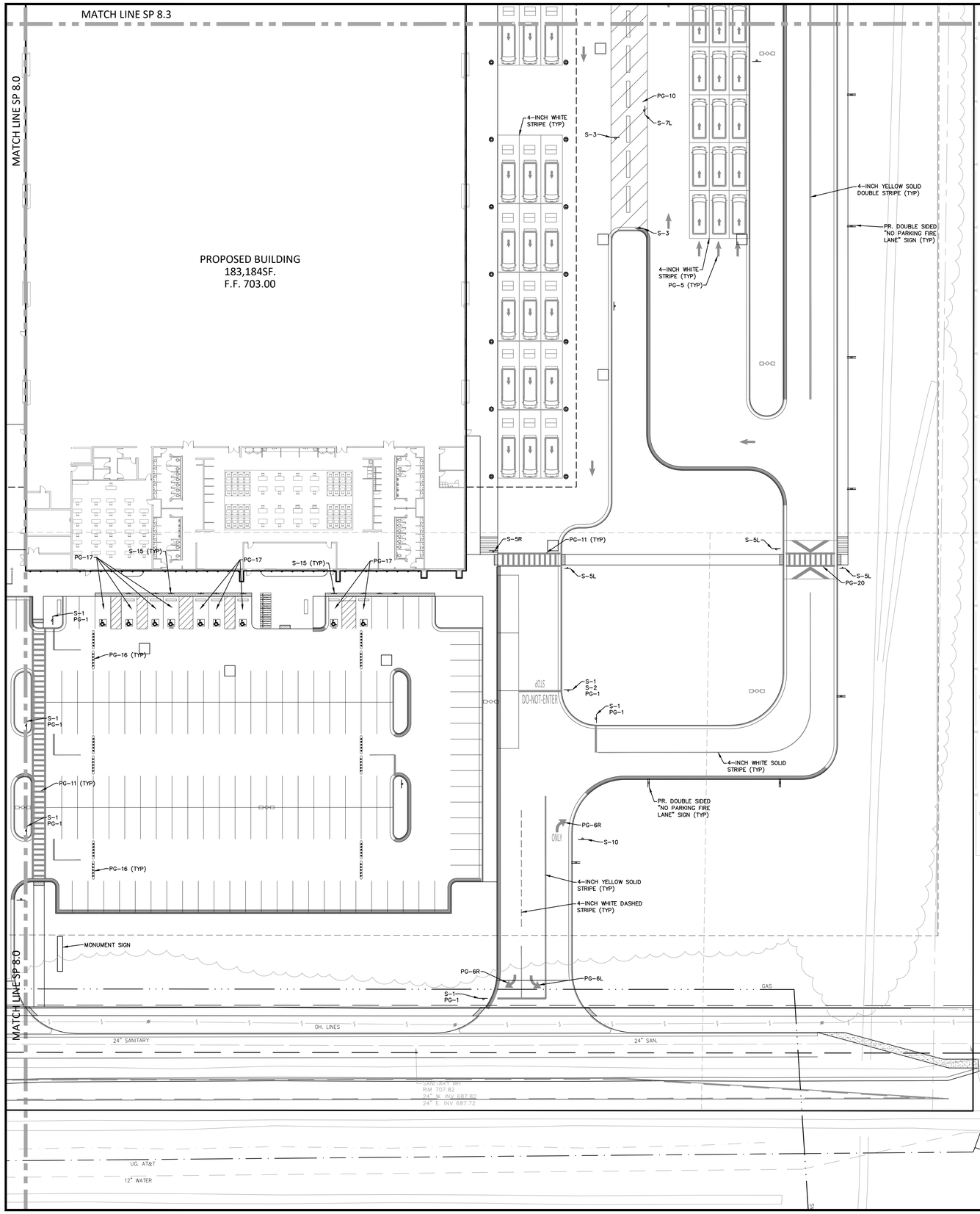

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S-2	Do Not Enter
S-3	Speed Limit, 5 MPH
S-3(mod)	Speed Bump Sign w/ 5 MPH Placard
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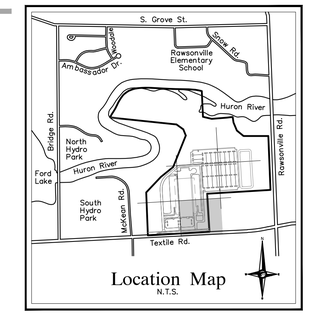

Location Map
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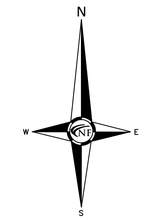

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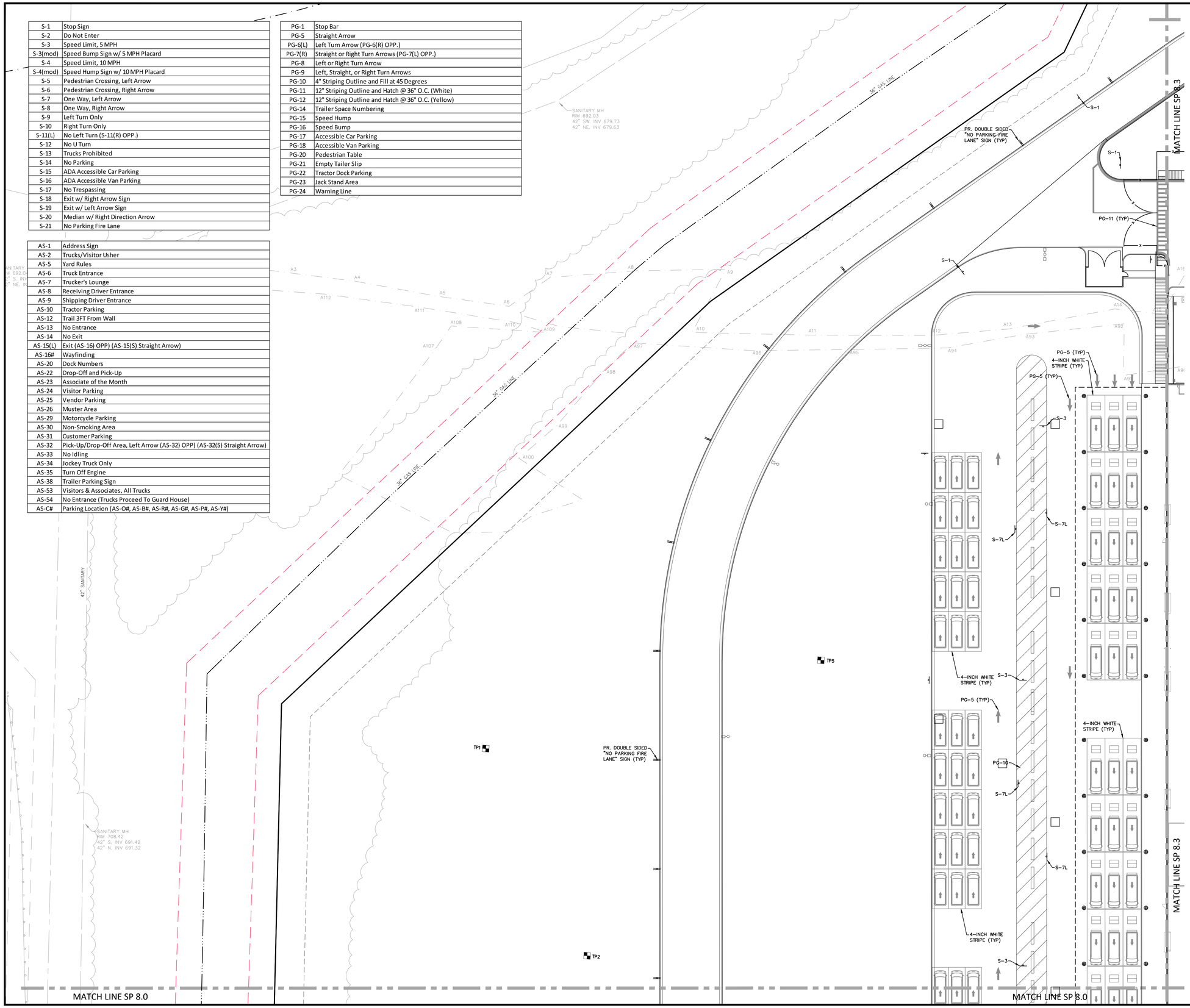

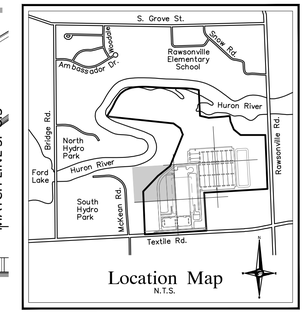

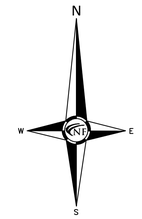

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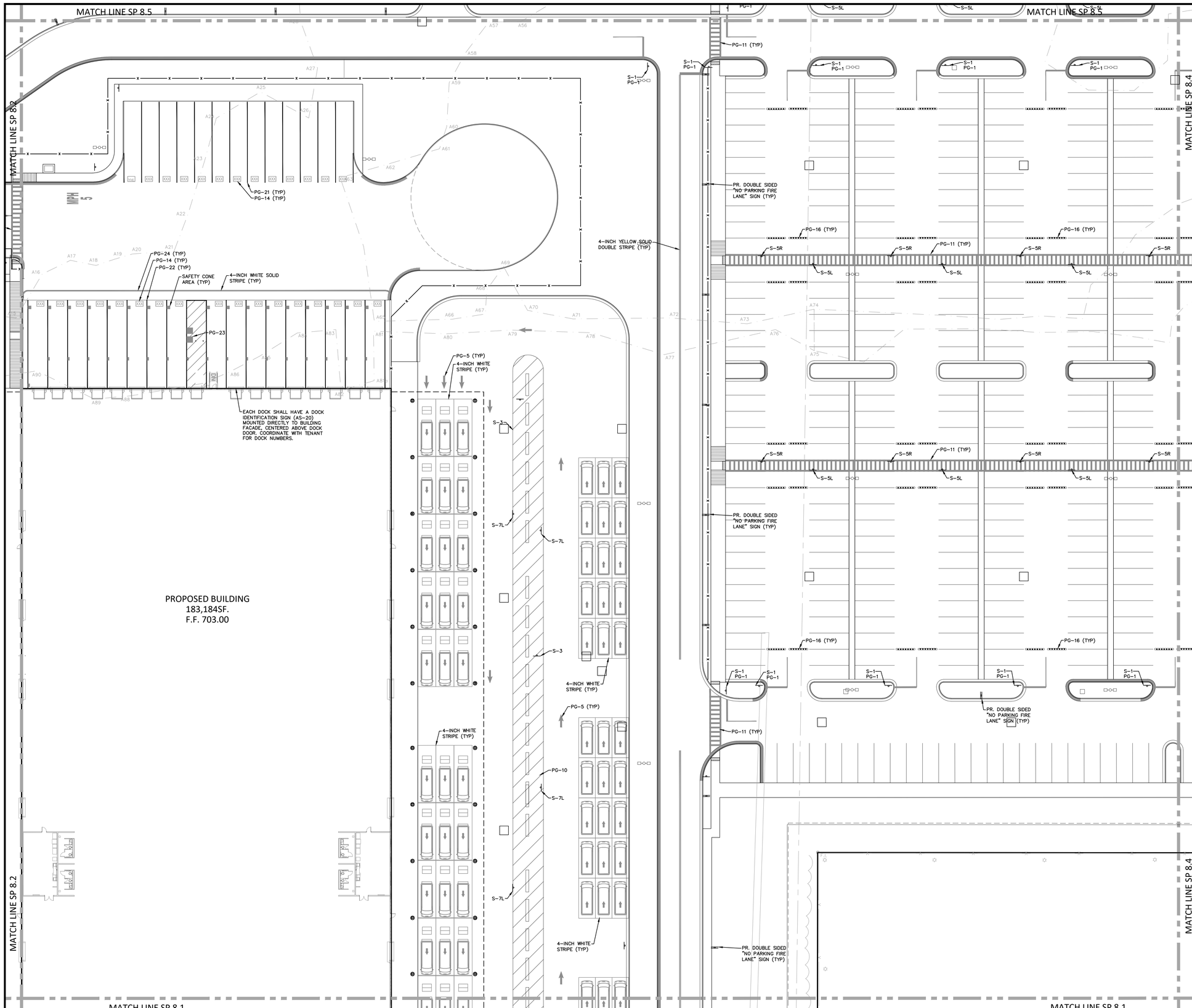

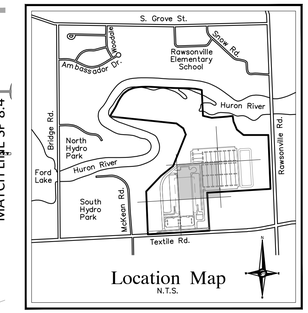

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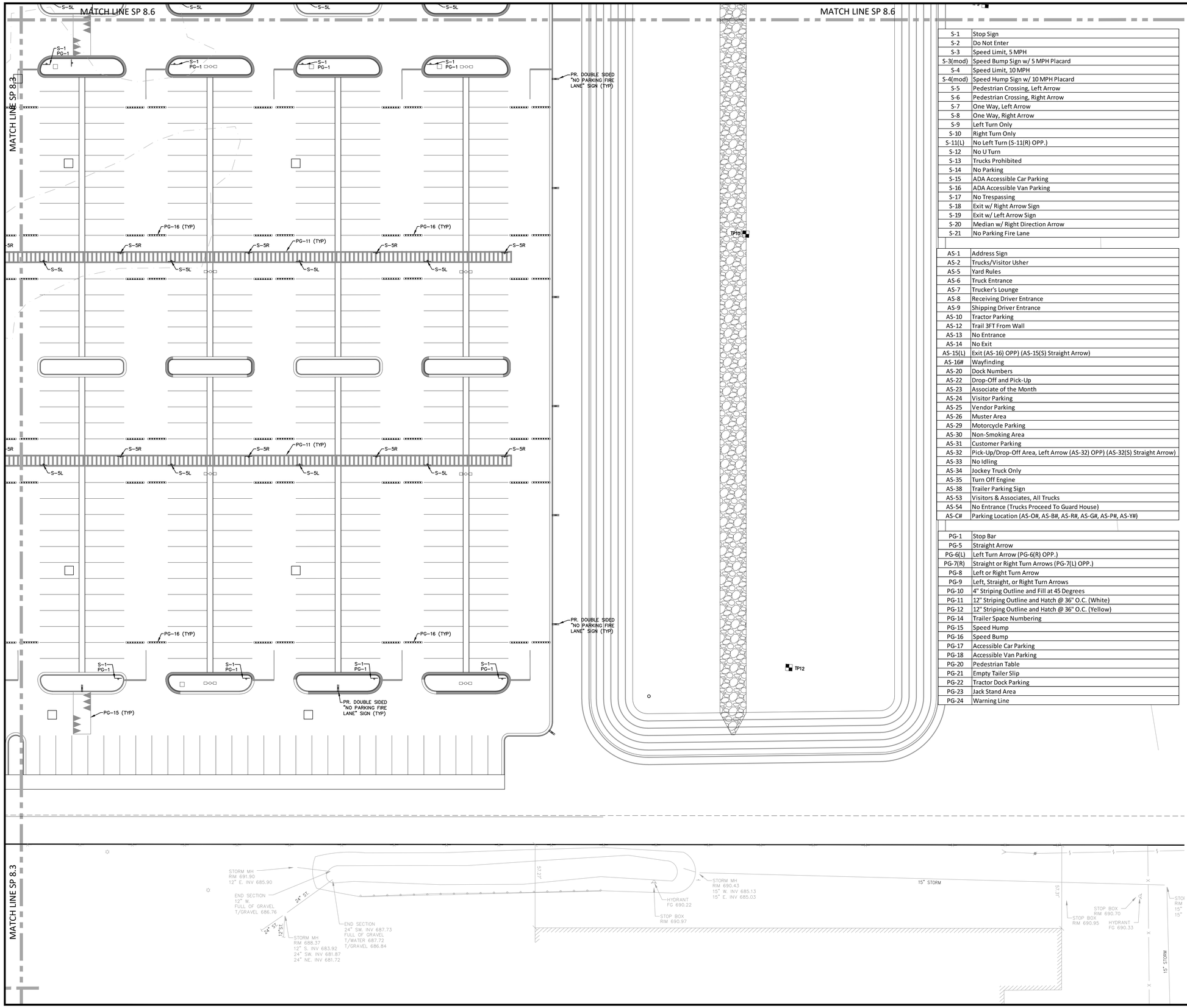

S-1	Stop Sign
S-2	Do Not Enter
S-3	Speed Limit, 5 MPH
S-3(mod)	Speed Bump Sign w/ 5 MPH Placard
S-4	Speed Limit, 10 MPH
S-4(mod)	Speed Hump Sign w/ 10 MPH Placard
S-5	Pedestrian Crossing, Left Arrow
S-6	Pedestrian Crossing, Right Arrow
S-7	One Way, Left Arrow
S-8	One Way, Right Arrow
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AS-1	Address Sign
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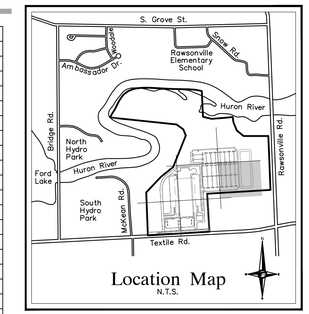

Location Map
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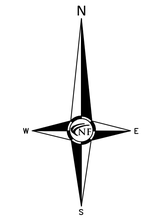

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DESIGNED BY: B. Brickel
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NFE JOB NO. M278-01
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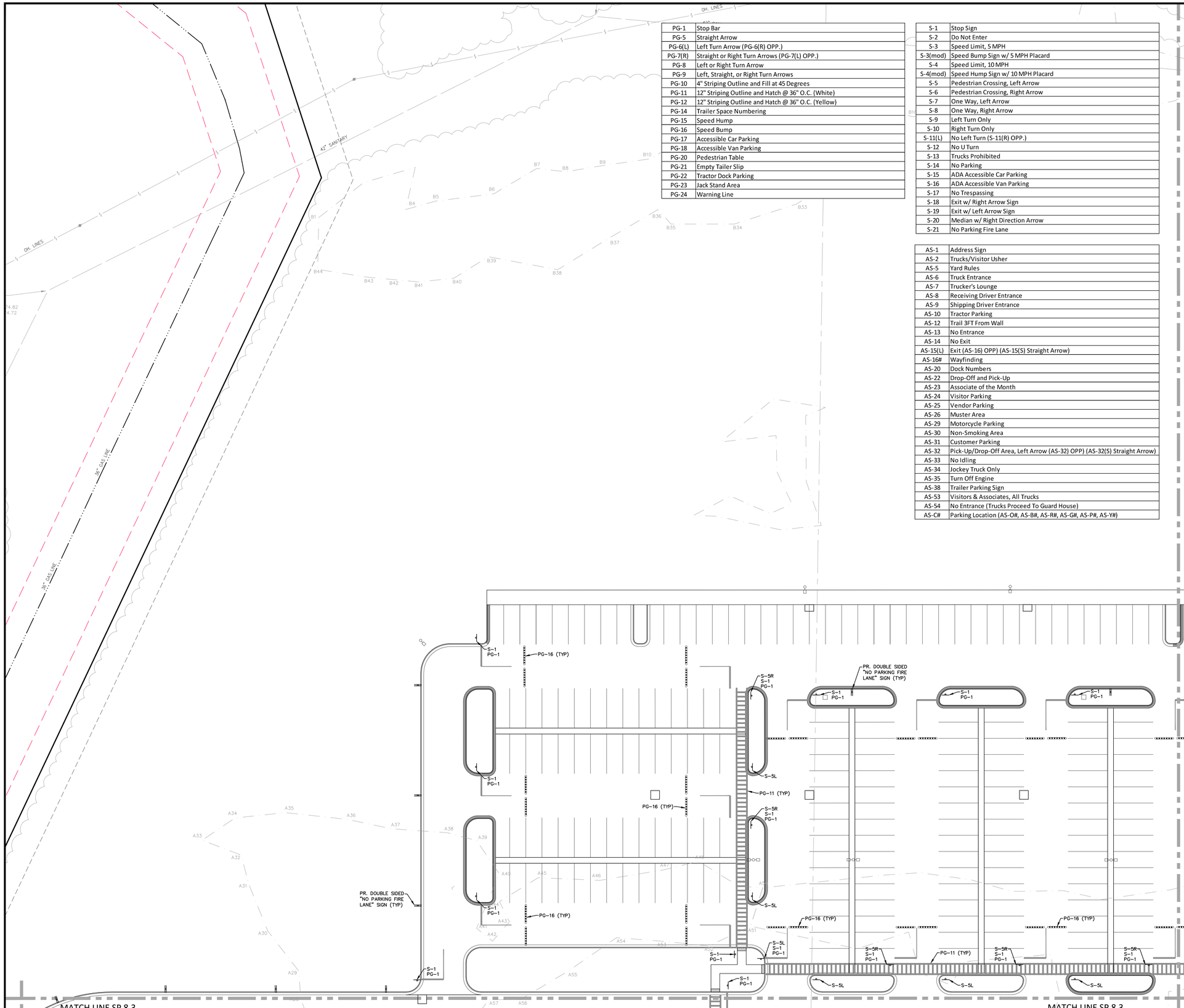

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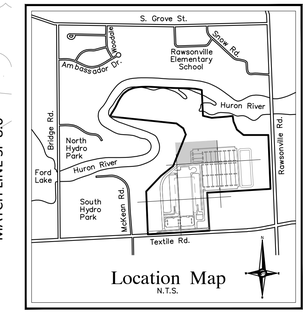

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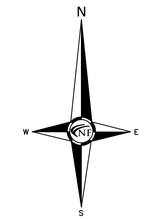

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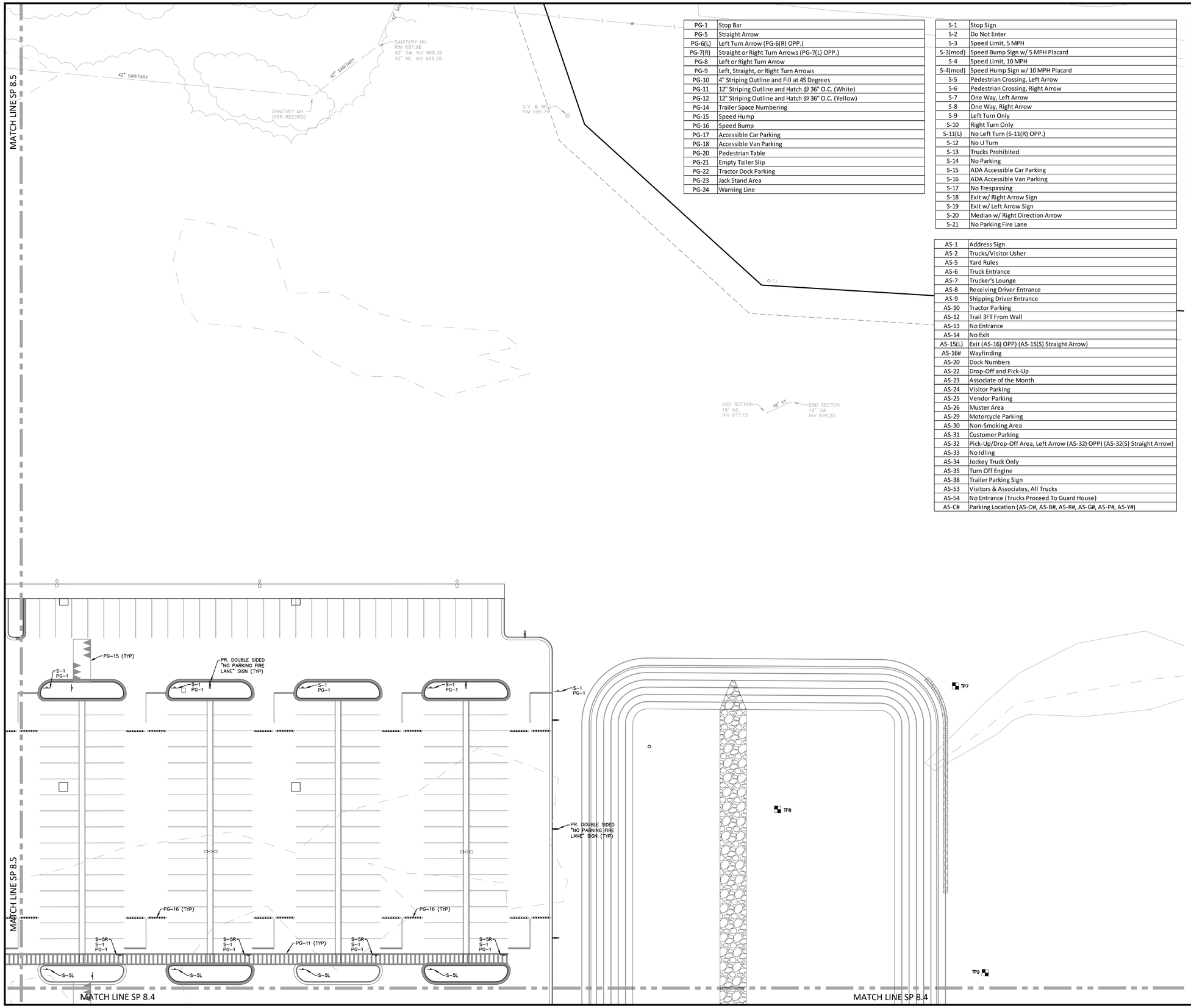

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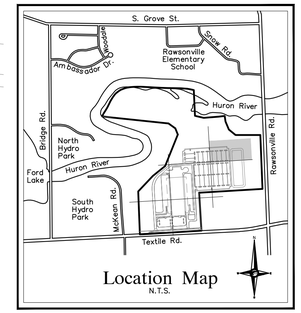

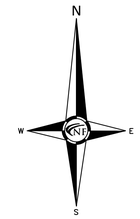

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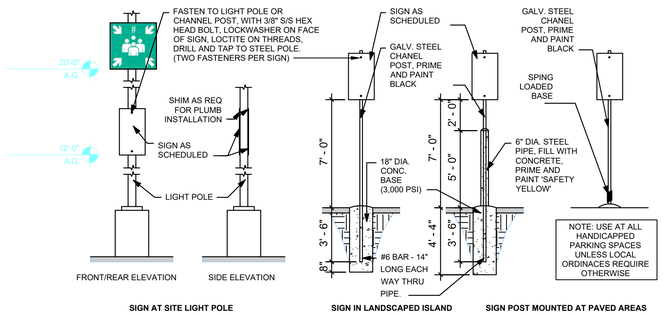


SIGN AT SITE LIGHT POLE | **SIGN IN LANDSCAPED ISLAND** | **SIGN POST MOUNTED AT PAVED AREAS**

PARKING LOT SIGNS

Mounting U-p Description:

1. Panel signs with custom sign faces

Materials and Construction

1. The sign consists of an aluminum sign panel directly attached to an existing light pole. G.C. to verify w/light pole manufacturer that pole will structurally support sign
2. Solid aluminum panel, 0.125" thick. Composite materials are not acceptable.
3. Panel and light pole are drilled and tapped. Panel attaches with two 3/8" hex head bolts, assisted with lock washers and an application of " Loctite " adhesive.
4. The sign shall comply with all local codes. Supports shall be sufficient for secure mounting of the sign.
5. All hardware is to be non-corrosive. If additional thickness of material or additional internal bracing is required for secure installation of the signs or to provide stability to prevent warping such alterations shall be reflected in the shop drawings. Wind loading and durability shall be taken into account in engineering this sign.
6. Graphics and TypographySign graphics are heavy duty 3M vinyl.
7. Custom graphics and sign face layouts are available from the owner as electronic files.
8. Colors are indicated on the Design Intent Drawings. Additional color and finish specifications are found in the General Specifications.

Installation:

1. Locations are generally noted on the attached location plans. The contractor is responsible for field verifying all installation conditions prior to fabrication.
2. Bottom of sign panel installs varies.
3. The installation methods and details for each location shall be illustrated in the submitted shop drawings. Final locations will be approved on site by the tenant or his representative.

Submittals:

1. The following shall be submitted for approval prior to fabrication:
2. Electronic shop drawings are acceptable
3. Color samples to be submitted.

NOTES:
1.VERIFY POST SIZE WITH SIGN MOUNTING HEIGHTS.
2.THESE DETAILS PROVIDE INTENT ONLY. FINAL POST & CONNECTIONS SHALL BE SIZED MEETING LOCAL DOT STANDARDS.

Post and Panel Signs Mounting U-1e, U-1c, U-2

Description:

1. Post and panel signs with standard sized DOT and custom sign faces

Materials and Construction:

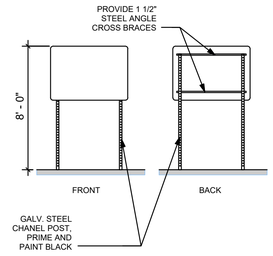
1. The sign consists of an aluminum sign panel on a 2" square steel post
2. Panel conforms to MUTCD specifications. Solid aluminum, not less than 0.090" thick. Composite materials are not acceptable.
3. Post: 2" square steel post, 12 ga, 7/16" perforations on 1" centers, four sides, approx 12' o/a
4. The sign shall comply with all local codes. Supports shall be sufficient for secure mounting of the sign.
5. All hardware is to be non-corrosive. If additional thickness of material or additional internal bracing is required for secure installation of the signs or to provide stability to prevent warping such alterations shall be reflected in the shop drawings. Wind loading and durability shall be taken into account in engineering this sign.
6. Graphics and Typography
7. All signs indicated "DOT" shall conform to the current Manual on Uniform Traffic Control Devices from the Federal Highway Administration.
8. Sign graphics are heavy duty 3M reflective vinyl.
9. Custom graphics and sign face layouts are available from the owner as electronic files.
10. Colors are indicated on the Design Intent Drawings.

Installation:

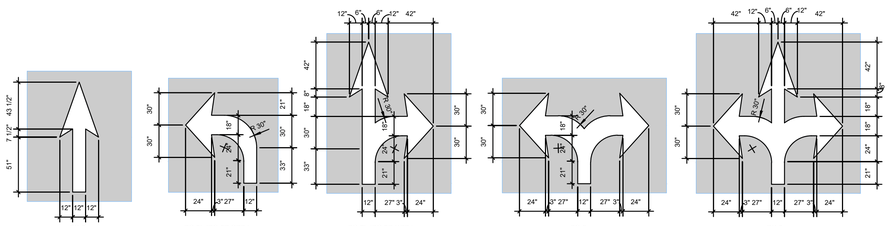
1. Locations are generally noted on the attached location plans. The contractor is responsible for field verifying all installation conditions prior to fabrication.
2. Mounting U-1e shall be used in for signs in compacted earth; mounting U-1c shall be used for signs on concrete paving.
3. Mounting U-1e provides a 36" mounting tube (2½" square steel post) driven to 1" to 2" above grade. The mounting tube is paired with an 18" breakaway support tube (2½" square steel post). The sign post sinks to the base of the anchor tube and fastens to the anchor tube and breakaway support with an angle bolt.
4. Mounting U-1c provides a pedestal base married to the 2" post. The base is shimmed for plumb installation of he post and panel. The base fastens to the concrete paving with masonry anchors according to the base and anchor manufacturers' specifications.
5. Typical sign panel installs 7'0" above grade. The post extends to within 2" of the top of the sign panel. Installation shall be plumb, level and straight.
6. Mounting U-2 provides two pole support similar to mounting U-1e. Additionally, U-2 requires cross bracing of structural angle on the back of the sign face.
7. Top of the U-2 mounted sign installs 8'0" above grade. Installation shall be plumb, level and straight.
8. The installation methods and details for each location shall be illustrated in the submitted shop drawings. Final locations will be approved on site by the owner or his representative.

Submittals:

1. The following shall be submitted for approval prior to fabrication:
2. Electronic shop drawings are acceptable
3. Three 6" x 6" vinyl samples of each sign face color
4. See General Construction and Installation Specifications for additional submittals.



SITE SIGN MOUNTING DETAILS



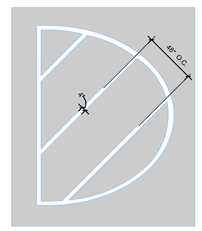
PG-5
8'-0" X 10'-0"
WHITE PAVEMENT GRAPHICS - STRAIGHT ARROW. USE TO DIRECT TRAFFIC AT ONE-WAY DRIVE AISLES. (BLACK INDICATES ASPHALT)

PG-6L (PG-6R OPP.)
8'-0" X 8'-0"
WHITE PAVEMENT GRAPHICS - LEFT TURN ARROW. USE TO INDICATE TURNING LANES. (BLACK INDICATES ASPHALT)

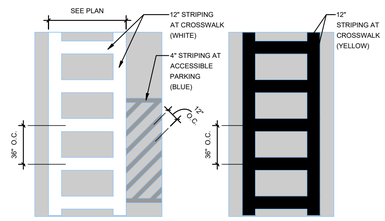
PG-7L (PG-7R OPP.)
8'-0" X 12'-0"
WHITE PAVEMENT GRAPHICS - STRAIGHT OR RIGHT TURN ARROW. USE TO INDICATE TURNING LANES. (BLACK INDICATES ASPHALT)

PG-8
10'-0" X 8'-0"
WHITE PAVEMENT GRAPHICS - LEFT OR RIGHT TURN ARROW. USE TO INDICATE TURNING LANES. (BLACK INDICATES ASPHALT)

PG-9
10'-0" X 12'-0"
WHITE PAVEMENT GRAPHICS - LEFT, STRAIGHT OR RIGHT TURN ARROW. USE TO INDICATE TURNING LANES. (BLACK INDICATES ASPHALT)

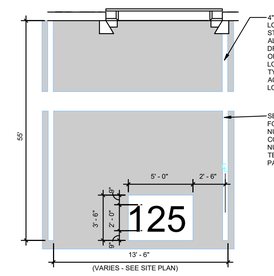


PG-10
4" STRIPING OUTLINE AND FILL AT 45 DEGREES. PAVEMENT GRAPHICS - TRAFFIC ISLAND. USE TO PROHIBIT VEHICLE TRAVEL AND PARKING. YELLOW AT NO TRAFFIC, BLUE AT ACCESSIBLE PARKING SPACES, WHITE AT VENDOR PARKING (BLACK INDICATES ASPHALT). INCLUDE AT EMERGENCY EXITS INTO THE PARKING LOT AT ALL PARKING SPACES THAT IMPEDE DIRECT ACCESS TO THE THOROUGHFARE.



PG-11
WHITE 12" STRIPING OUTLINE AND HATCH FILL AT 36" O.C. PAVEMENT GRAPHICS - PEDESTRIAN CROSSWALK. USE TO INDICATE PEDESTRIAN CROSSING. SEE PLAN FOR WIDTH OF CROSSWALK (BLACK INDICATES ASPHALT)

PG-12
YELLOW 12" STRIPING OUTLINE AND HATCH FILL AT 36" O.C. PAVEMENT GRAPHICS - DRIVER ENTRANCE. USE TO DIRECT DRIVER ENTRANCE IN DOCK FIELD. POSITION IN TRUCK COURT TO CORRESPOND WITH THE LOCATION OF THE TRUCKERS LOUNGE AND TRUCKERS ENTRY POINTS. SEE PLAN FOR WIDTH OF CROSSWALK (BLACK INDICATES ASPHALT)



PG-14
WHITE 5'-0" X 3'-6" (24" TALL LETTERING) PAVEMENT GRAPHICS - TRAILER SPACE NUMBERING. USE TO LABEL TRAILER SPACES. TYPICAL ALL TRUCK DOCK SPACES. (BLACK INDICATES ASPHALT). SEE PLANS FOR DOCK DOOR NUMBERS. COORDINATE NUMBERS WITH TENANT OF TRAILER PARKING.

PAVEMENT GRAPHIC DETAILS

CUSTOM SIGNAGE COLORS

	Gloss Vinyl	Reflective Vinyl	Paint
C1 White	Scotchcal White 220-20	Scotchcal 280 White 280-10	Gloss White Two part catalyst hardened acrylic enamel
C2 Black	Scotchcal Black, 230-22 (Pantone Black/C)	Scotchcal Black 280-95	
C3 Yellow	Oracal OPAQUE 020 GOLDEN YELLOW TRANSLUCENT 015 YELLOW ORANGE (Color to match Amazon branding guidelines, Amazon orange= Pantone 137 U, Pantone 1375 C)		
C4 Gray	Scotchcal Medium Gray 230-31		Satin Finish Two part catalyst hardened acrylic enamel
C5 Red	Scotchcal Red 230-33 (Pantone 485C2X)	Scotchcal Red 280-72	
C6 Blue	Scotchcal Cobalt Blue (Pantone 288C)	Scotchcal Blue 230-75	
C7 Blue	Scotchcal Prime Blue (Pantone 3985C)(RAL 5012)		

PAVEMENT GRAPHIC NOTES:

1. TWO COAT APPLICATION REQUIRED FOR ALL PAVEMENT GRAPHICS.
2. REFER TO CIVIL FOR PAINTED GRAPHIC ARROWS AND ADDITIONAL PAVEMENT GRAPHIC CRITERIA.

PAVEMENT PAINT

TA1/PP1	WHITE	
TA2/PP2	RED	(PANTONE 485C)
TA3/PP3	BLUE	(PANTONE 294)
TA4/PP4	GREEN	(PANTONE 342)
TA5/PP5	YELLOW	(PANTONE 116)

NOTE: TWO COAT APPLICATION REQUIRED FOR ALL PAVEMENT GRAPHICS.

AS-6
36" X 24"
TENANT SIGNAGE - TRUCK ENTRANCE USE AT DEMARCATE TRUCK ENTRANCE. POST (X2) AND PANEL MOUNT. WHITE TEXT (ARIAL) ON BLACK BACKGROUND.

AS-8
36" X 24"
TENANT SIGNAGE - DSP ENTRANCE USE AT DEMARCATE DSP ENTRANCE. POST (X2) AND PANEL MOUNT. WHITE TEXT (ARIAL) ON BLACK BACKGROUND.

AS-12
36" X 24"
TENANT SIGNAGE - TRAILERS MUST BE 3FT FROM WALL USE AT TRAILER PARKING SPACES ALONG BUILDING WALL. PROVIDE ONE SIGN PER GROUP OF PARKING SPACES. MOUNT PANEL DIRECTLY TO EXTERIOR OF BUILDING FACADE. WHITE TEXT (ARIAL) ON BLACK BACKGROUND.

AS-13
36" X 24"
TENANT SIGNAGE - NO ENTRANCE USE TO PROHIBIT ENTRY AT ACCESS DRIVES. MOUNT TO OUTWARD FACING SIDE OF GATE OR FENCE. WHITE TEXT (ARIAL) ON BLACK BACKGROUND.

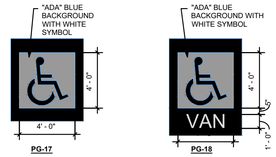
AS-14
36" X 24"
TENANT SIGNAGE - NO EXIT USE TO PROHIBIT EXITING AT ACCESS DRIVES. MOUNT TO INSIDE FACING SIDE OF GATE OR FENCE. WHITE TEXT (ARIAL) ON BLACK BACKGROUND.

AS-15
36" X 24"
TENANT SIGNAGE - EXIT USE AT GUARD HOUSE EXIT. MOUNT AT 6" A.F.G. TO BOTTOM. WHITE TEXT (ARIAL) ON BLACK BACKGROUND. ADJUST ARROW PER LOCATION.

AS-53
36" X 24"
TENANT SIGNAGE - SORTATION WAYFINDING USE AT SORTATION SITES AS NECESSARY FOR WAYFINDING. POST AND PANEL MOUNT. WHITE TEXT (ARIAL) ON BLACK BACKGROUND. ADJUST TEXT AND ARROW(S) DIRECTION BASED ON SITE LOCATION.

AS-26
36" X 36"
TENANT SIGNAGE - MUSTER AREA REPLACE "#" WITH CORRESPONDING AREA NUMBER; SEE PLAN. POLE MOUNT AT 15'-0" A.F.G. IN CAR PARKING. POLE MOUNT AT 20'-0" A.F.G. IN TRAILER YARD (MEASURED AT BOTTOM OF SIGN) WHITE GRAPHICS ON GREEN BACKGROUND.

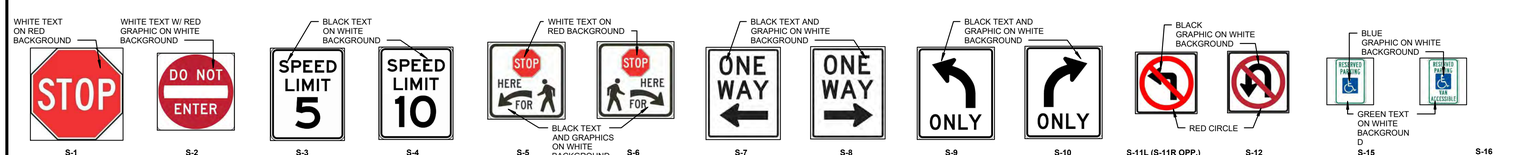
SIGNS



PG-17
4'-0" X 4'-0"
PAVEMENT GRAPHICS -STANDARD ACCESSIBLE PARKING SPACE. USE AT ALL ACCESSIBLE PARKING SPACES. WHITE SYMBOL WITH BLUE BACKGROUND (BLACK INDICATES ASPHALT).

PG-18
4'-0" X 5'-5 1/2"
PAVEMENT GRAPHICS - VAN ACCESSIBLE PARKING SPACE. USE AT ALL VAN ACCESSIBLE PARKING SPACES. WHITE SYMBOL WITH BLUE BACKGROUND, AND WHITE TEXT (BLACK INDICATES ASPHALT).

PAVEMENT GRAPHIC DETAILS 2



S-1
36" X 36"
DOT STANDARD OCTAGONAL "STOP" SIGN. USE AT INTERSECTIONS IN PARKING LOT AND DRIVE AISLES. POST AND PANEL MOUNT.

S-2
30" X 30"
DOTSTANDARD "DONOT ENTER" SIGN. USE TO PROHIBIT TRAVEL IN THE WRONG DIRECTION. TYPICAL AT ONE-WAY ROADS. POST AND PANEL MOUNT.

S-3
30" X 36"
DOT STANDARD "SPEED LIMIT 5 MPH" SIGN. USE TO CONTROL SPEED ALONG DRIVE AISLES WITHOUT ADJACENT PARKING SPOTS. POST AND PANEL MOUNT.

S-4
30" X 36"
DOT STANDARD "SPEED LIMIT 10 MPH" SIGN. USE TO CONTROL SPEED ALONG DRIVE AISLES WITHOUT ADJACENT PARKING POTS. POST AND PANEL MOUNT.

S-5
30" X 30"
DOT STANDARD SQUARE PEDESTRIAN CROSSING "STOP" SIGN, LEFT ARROW. USE AT PEDESTRIAN CROSSWALKS LOCATED IN THE MIDDLE OF DRIVE AISLES. POST AND PANEL MOUNT.

S-6
30" X 30"
DOT STANDARD SQUARE PEDESTRIAN CROSSING "STOP" SIGN, RIGHT ARROW. USE AT PEDESTRIAN CROSSWALKS LOCATED IN THE MIDDLE OF DRIVE AISLES. POST AND PANEL MOUNT.

S-7
30" X 36"
DOT STANDARD VERTICALLY ORIENTED "ONE WAY" LEFT ARROW SIGN. USE ALONG ONE WAY DRIVE AISLES. POST AND PANEL MOUNT.

S-8
30" X 36"
DOT STANDARD VERTICALLY ORIENTED "ONE WAY" RIGHT ARROW SIGN. USE ALONG ONE WAY DRIVE AISLES. POST AND PANEL MOUNT.

S-9
30" X 36"
DOT STANDARD LEFT TURN "ONLY" SIGN. USE ALONG ONE WAY DRIVE AISLES. POST AND PANEL MOUNT.

S-10
30" X 36"
DOT STANDARD RIGHT TURN "ONLY" SIGN. USE ALONG ONE WAY DRIVE AISLES. POST AND PANEL MOUNT.

S-11L (S-11R OPP.)
24" X 24"
DOTSTANDAR D "NO LEFT TURN" SIGN. USE TO PROHIBIT TURNING TRAFFIC. POST AND PANEL MOUNT.

S-12
24" X 24"
DOT STANDARD "NO U TURN" SIGN. USE TO PROHIBIT TURNING TRAFFIC. POST AND PANEL MOUNT.

S-15
12" X 18"
DOT STANDARD VERTICALLY ORIENTED ACCESSIBLE "PARKING ONLY" SIGN. USE TO DEMARCATE CCESSIBLE PARKING SPACES. ONE SIGN PER SPACE OR AS REQUIRED BY LOCAL AUTHORITY. POST AND PANEL MOUNT.

S-16
12" X 18"
DOT STANDARD VERTICALLY ORIENTED "VAN ACCESSIBLE" PARKING SIGN. USE TO DEMARCATE VAN ACCESSIBLE PARKING SPACES. ONE SIGN PER SPACE OR AS REQUIRED BY LOCAL AUTHORITY. POST AND PANEL MOUNT.

SITE SIGNS

VINYL GRAPHICS GENERAL NOTES

DOOR SIGNS:
SEE DOOR SIGN PLACEMENT DETAIL ON THIS SHEET FOR MOUNTING HEIGHTS.

SPECIFICATIONS:
SEE WORLDWIDE REAL ESTATE SIGNAGE STANDARDS (REV. 10) FOR COLOR GENERAL NOTES AND ADDITIONAL SIGNAGE COLORS.

DESCRIPTION:
CUSTOM CUT VINYL GRAPHICS, ATTACHED TO FIRST SURFACE OF EXTERIOR GLASS.

GRAPHICS AND TYPOGRAPHY:
SIGN GRAPHICS ARE HEAVY DUTY '3M' VINYL. LOGO IS A HIGH RESOLUTION DIGITAL PRINT ON PERMANENT ADHESIVE PRESSURE SENSITIVE VINYL SUBSTRATE WITH LUSTER OVER LAMINATE, CUT TO SHAPE FROM VECTOR FILE. COPY IS MATTE WHITE VINYL.

INSTALLATION:
LOCATIONS ARE GENERALLY NOTED ON THE ATTACHED LOCATION PLANS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL INSTALLATION CONDITIONS PRIOR TO FABRICATION. THE INSTALLATION METHODS AND DETAILS FOR EACH LOCATION SHALL BE ILLUSTRATED IN THE SUBMITTED SHOP DRAWINGS. FINAL LOCATION WILL BE APPROVED ON SITE BY THE TENANT REPRESENTATIVE.

SUBMITTALS:
THE FOLLOWING SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION - (3) SETS OF SHOP DRAWINGS AND (3) 6" X6" VINYL SAMPLES OF EACH SIGN FACE COLOR. SEE GENERAL CONSTRUCTION AND INSTALLATION SPECIFICATIONS FOR ADDITIONAL SUBMITTALS.

SIGNAGE GENERAL NOTES

1. FINAL QUANTITIES SHALL BE COORDINATED AND VERIFIED IN FIELD.
2. ADDITIONAL SIGNAGE NOT SHOWN ON GRAPHICS PLAN MAY BE REQUIRED PER LOCAL CODE AND/OR AHJ. SUB-CONTRACTOR SHALL COORDINATE WITH LOCAL AHJ AND PROVIDE AS REQUIRED.
3. MOUNT SIGNAGE ACCORDING TO LOCAL CODES.
4. ALL PERMANENT SIGNAGE TO ACCESSIBLE AREAS TO HAVE RAISED BRAILLE CHARACTERS PER ANSI 117.1-2003
5. TYPICAL SIGN FONT IS SET IN AERIAL.
6. SEE DOOR SCHEDULE FOR DOOR SIGNAGE REQUIRED TEXT.

DESIGNERS NOTE:
TENANT OPERATIONAL STANDARDS INCLUDE STANDARD DESIGN/LAYOUT OF SIGNATE AT LOADING DOCK DOOR AND PERMIETER EXIT DOORS, INTERIOR/EXTERIOR.

SITE SPECIFIC DESIGNERS SHALL CONFIRM THAT DOOR LAYOUT AND REQUIRED OPERATIONAL GRAPHICS CONFORM TO TENANT OPERATIONAL AND SIGNAGE STANDARDS.

SITE SIGNAGE COLOR GENERAL NOTES

ALL SIGNS INDICATED "DOT" SHALL CONFORM TO COLOR AND REFLECTANCE SPECIFICATIONS OF THE MUTCD

MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES)
HTTP://MUTCD.FHWA.DOT.GOV/KNO-COLORSPEC.HTM

MUTCD COLOR SPECIFICATIONS
COLOR SPECIFICATIONS (23 CFR 655) THE COLOR SPECIFICATIONS ARE USED TO DETERMINE THE COLOR OF SIGN SHEETING AND PAVEMENT MARKING MATERIALS FOR DESIGN PURPOSES. MOST OF THE COLOR SPECIFICATIONS WERE LAST REVISED BY THE FINAL RULE; AMENDMENT DATED NOVEMBER 21, 2002. HOWEVER, SOME COLOR SPECIFICATIONS WERE REVISED AND SPECIFICATIONS FOR SOME NEW COLORS WERE ADDED BY THE FINAL RULE DATED DECEMBER 16, 2009. VISIT THE ABOVE LINK FOR MORE INFO.

PANTONE MATCHING COLORS
THE FOLLOWING ARE PANTONE SPECIFICATIONS, FOR PRINTING PURPOSES. THEY PROVIDE A GUIDE FOR SELECTING APPROPRIATE LINK COLORS TO CLOSELY MATCH THE STANDARD COLORS OF TRAFFIC CONTROL SIGNS. NOTE: THERE ARE NO PANTONE AVAILABLE FOR FLUORESCENT COLOR SIGNS.

PANTONE SPECIFICATIONS FOR PRINTING
BROWN - 469, RED - 187, YELLOW - 116, PURPLE - 259, GREEN - 342, BLUE - 294, ORANGE - 152

SIGNAGE NOTES

1. REFER TO SIGNAGE AND STRIPING PLAN FOR LOCATIONS OF SIGNS AND PAVEMENT MARKINGS.
2. ALL SIGNAGE, STRIPING, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. ALL STRIPING SHALL BE LOW VOC 4" WIDE UNLESS OTHERWISE NOTED. ALL PAVEMENT GRAPHICS SHALL BE HOT–APPLIED THERMOPLASTIC (REFLECTIVE).
4. COLOR SHALL BE WHITE ON ASPHALT AND YELLOW ON CONCRETE, UNLESS OTHERWISE NOTED.
5. ASPHALT SPEED HUMPS AND SPEED BUMPS SHALL BE USED IN COLDER CLIMATES WHERE SNOW REMOVAL EQUIPMENT IS INTENDED TO BE USED RUBBER SPEED HUMPS AND SPEED BUMPS MAY BE USED IN WARMER CLIMATES OR REGIONS WHERE CONCRETE PAVEMENT IS PREVALENT.
6. ALL PROPOSED SIGNAGE AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE TENANT FULFILLMENT WORLDWIDE REAL ESTATE SIGNAGE STANDARDS REVISIONS 1–01 DATED JANUARY 2021.
7. FINAL QUANTITIES SHALL BE COORDINATED AND VERIFIED IN FIELD.
8. ADDITIONAL SIGNAGE NOT SHOWN ON GRAPHICS PLAN (E.G. FIRE LANES) MAY BE REQUIRED PER LOCAL CODE AND/OR AHJ SUB–CONTRACTOR SHALL COORDINATE WTH LOCAL AHJ AND PROVIDE AS REQUIRED.
9. MOUNT SIGNAGE ACCORDING TO LOCAL CODES.
10. TYPICAL SIGN FRONT IS SET IN AMAZON EMBER.

S-18
30" X 36"
DOT STANDARD "EXIT" SIGN, RIGHT ARROW, POST AND PANEL MOUNT WHERE APPROPRIATE.

S-19
30" X 36"
DOT STANDARD "EXIT" SIGN, LEFT ARROW, POST AND PANEL MOUNT WHERE APPROPRIATE.

S-20
30" X 24
DOTSTANDARD MEDIAN SYMBOL WITH RIGHT DIRECTING ARROW. POST AND PANEL OUNT WHERE APPROPRIATE.

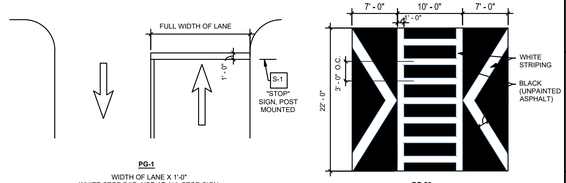
S-21
12" X 18"
RED ON WHITE REFLECTORIZED BACKGROUND (NOTE - THIS SIGN IS SHOWN ON BOTH CIVIL AND PARTIAL SITE SIGNAGE PLANS FOR CONTINUNITY ONLY. DO NOT PRICE INDEPENDENTLY)

AS-23
12" X 18
AMAZON SIGNAGE - ASSOCIATE OF THE MONTH. PROVIDE 4 ASSOCIATE OF THE MONTH PARKING SPACES NEAR THE MAIN ENTRY. POST AND PANEL MOUNT. ONE SIGN PER PARKING SPACE. BLACK TEXT (ARIAL NARROW) ON WHITE BACKGROUND, BLUE AMAZON ARROW GRAPHIC.

AS-30
12" X 18"
AMAZON SIGNAGE - NON-SMOKING AREA LOCATE OUTSIDE BUILDING ENTRANCES AT NON-COVERED PICNIC TABLES. PROVIDE X2 AT SORT AND X1 AT NON-SORT & SORTATION. POST AND PANEL MOUNT. BLACK TEXT (ARIAL NARROW) ON WHITE BACKGROUND, BLUE AMAZON ARROW GRAPHIC.

AS-31
12" X 18"
AMAZON SIGNAGE - CUSTOMER PARKING LOCATE OUTSIDE BUILDING AT CUSTOMER PARKING SPACES. BLACK TEXT (ARIAL NARROW) ON WHITE BACKGROUND, BLUE AMAZON ARROW GRAPHIC.

SITE SIGNS



PG-1
WIDTH OF LANE X 1'-0"
WHITE STOP BAR. USE AT ALL STOP SIGN (S-1) LOCATIONS. WHITE PAVEMENT STRIPE.

PG-20
24'-0" X 22'-0"
WHITE PAVEMENT GRAPHICS - PEDESTRIAN TABLE. USE AT CROSSWALKS AT HIGH TRAFFIC AREAS PER SITE (EX. MAIN ENTRANCE). WHITE STRIPING ON RAISED ASPHALT TABLE.

PAVEMENT GRAPHICS DETAILS

NF ENGINEERS
CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN
BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Signage And Striping Detail Plan

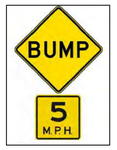
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. M278-01
SHEET NO. SP 8.7



S-3 (MOD)

30" X 30" SIGN AND
18" X 18" PLACARD
MUTCD: W8-1 AND W13-1P

S-4 (MOD)

30" X 30" SIGN AND
18" X 18" PLACARD
MUTCD: W8-1 AND W13-1P

S-13

24" X 24"
MUTCD: R5-2

S-14

24" X 24"
MUTCD: R8-3

S-17

18" X 12"

NOTE:

1. ADDITIONAL MUTCD COMPLAIANT SIGNAGE MAY BE ADDED ON AN INDIVIDUAL SITE BASIS.

AS-1

60"X48"
ADDRESS SIGN
DOUBLE (U-2) POST

AS-2

60"X48"
ADDRESS SIGN
DOUBLE (U-2) POST

AS-5

48"X60"
ADDRESS SIGN
DOUBLE (U-2) POST

AS-7

36"X24"
DOUBLE (U-2) POST

AS-8

36"X24"
DOUBLE (U-2) POST

AS-9

36"X24"
DOUBLE (U-2) POST

AS-10

36"X24"
DOUBLE (U-2) POST

AS-16 (5)

48"X60"
WAY FINDING
DOUBLE (U-2) POST

AS-16 (8)

48"X60"
WAY FINDING
DOUBLE (U-2) POST

AS-16 (9)

48"X60"
WAY FINDING
DOUBLE (U-2) POST

AS-16 (10)

48"X60"
WAY FINDING
DOUBLE (U-2) POST

AS-16 (1)

48"X60"
WAY FINDING
DOUBLE (U-2) POST

AS-16 (2)

48"X60"
WAY FINDING
DOUBLE (U-2) POST

AS-16 (3)(R)
AS-16 (3)(L) OPP.
AS-16 (3)(S) STRAIGHT

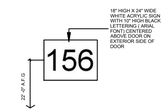
48"X60"
WAY FINDING
DOUBLE (U-2) POST

AS-16 (4)(S) SHOWN
AS-16 (4)(L) LEFT
AS-16 (4)(R) RIGHT

48"X60"
WAY FINDING
DOUBLE (U-2) POST

AS-32 (L) SHOWN
AS-32 (R) OPP.
AS-32 (S) STRAIGHT

36"X24"
DOUBLE (U-2) POST



AS-26(#)

26"X26"
MUSTER AREA
(MOUNT ON LIGHT POLE)

AS-22

12"X18"

AS-24

12"X18"

AS-25

12"X18"

AS-29

12"X18"

AS-30

12"X18"

AS-31

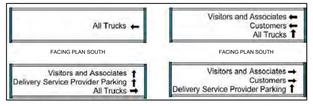
12"X18"

AS-0#, AS -B (#), AS-R(#), AS-G#, AS-P#, AS-Y#

24"X24"

NOTE:

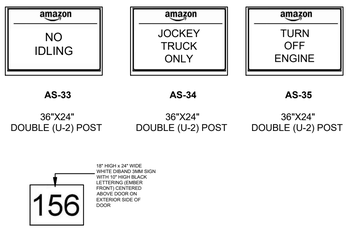
1. AS-16 LAYOUT SHALL BE SITE SPECIFIC. DETAILS SHOWN ARE FOR DELIVERY STATION BUILDING 2W4F LARGE DS PROTOTYPE BASE ON SIGN LOCATION SHOWN ON SHEETS SS101. ORIENTATION OF ARROWS AND SITE AREAS SHALL BE BASED ON SIGN LOCATION.
2. ADDITIONAL AMAZON SIGNAGE MAY BE ADDED ON AN INDIVIDUAL SITE BASIS.



PYLON SIGN 1 **PYLON SIGN 2**

NOTES:
1. PLACARD LAYOUT SHALL BE SITE SPECIFIC. DETAI SHOWN IS FOR DELIVERY STATION BUILDING 2W4F LARGE DS PROTOTYPE. ORIENTATION OF ARROWS SHALL BE BASED ON PYLON SIGN LOCATION.

PLACARD DETAIL



AS-33

36"X24"
DOUBLE (U-2) POST

AS-34

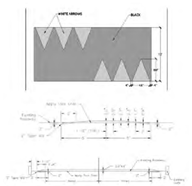
36"X24"
DOUBLE (U-2) POST

AS-35

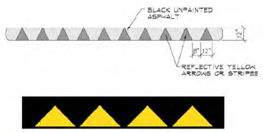
36"X24"
DOUBLE (U-2) POST

AS-20

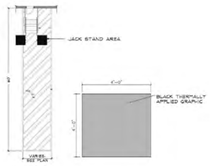
24"X18"
DOCK NUMBERS
(EXTERIOR)



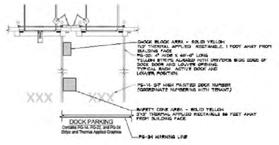
PG-15
20'-0" wide
Pavement graphics- large speed bump.
Use to control speed at outlying drive aisles.
White thermal applied white arrows.
Removable heavy-duty rubber speed humps not allowed.



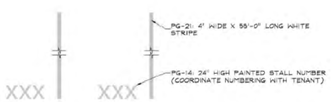
PG-16
12'-0" x 1'-0"
Pavement graphics- small speed hump.
Use to control speed at interior drive aisles.
Thermal applied reflective yellow arrows.



PG-23
4' x 4' Solid black square
Pavement graphics- Jack Stand Areas
Use to identify Jack stand location.
Thermal applied



PG-22
12' x 55' (4" wide stripe)
Pavement graphics- tractor dock parking.
Use to identify dock parking.
Thermal applied white striping with 24" tall white lettering (see PG-14).
Align stripe with driver's side edge of dock door or louver opening. Typical each active dock and louver position.
Provide C11 Orange Warning Line at parking spaces 66' alongside building wall.



PG-21
12' x 55' (4" wide stripe)
Pavement graphics- empty trailer slip.
Use to mark empty trailer parking spaces.
Thermal applied white striping with 24" tall white lettering (see PG-14).

PG-24
WARNING LINE
4" Wide Stripe C11 Orange Line and Graphics

SIGNAGE NOTES

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2. ALL SIGNAGE, STRIPING, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. ALL STRIPING SHALL BE LOW VOC 4" WIDE UNLESS OTHERWISE NOTED. ALL PAVEMENT GRAPHICS SHALL BE HOT–APPLIED THERMOPLASTIC (REFLECTIVE).
4. COLOR SHALL BE WHITE ON ASPHALT AND YELLOW ON CONCRETE, UNLESS OTHERWISE NOTED.
5. ASPHALT SPEED HUMPS AND SPEED BUMPS SHALL BE USED IN COLDER CLIMATES WHERE SNOW REMOVAL EQUIPMENT IS INTENDED TO BE USED RUBBER SPEED HUMPS AND SPEED BUMPS MAY BE USED IN WARMER CLIMATES OR REGIONS WHERE CONCRETE PAVEMENT IS PREVALENT.
6. ALL PROPOSED SIGNAGE AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE TENANT FULFILLMENT WORLDWIDE REAL ESTATE SIGNAGE STANDARDS REVISIONS 1–01 DATED JANUARY 2021.
7. FINAL QUANTITIES SHALL BE COORDINATED AND VERIFIED IN FIELD.
8. ADDITIONAL SIGNAGE NOT SHOWN ON GRAPHICS PLAN (E.G. FIRE LANES) MAY BE REQUIRED PER LOCAL CODE AND/OR AHJ SUB–CONTRACTOR SHALL COORDINATE WITH LOCAL AHJ AND PROVIDE AS REQUIRED.
9. MOUNT SIGNAGE ACCORDING TO LOCAL CODES.
10. TYPICAL SIGN FRONT IS SET IN AMAZON EMBER.

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Detail Plan

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DRAWN BY: J. Lawrey
DESIGNED BY: B. Brickel
APPROVED BY: B. Brickel
DATE: September 24, 2021
SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. **M278-01**
SHEET NO. **SP 8.8**

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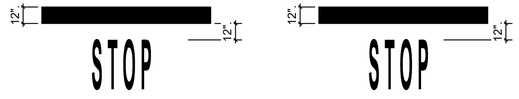
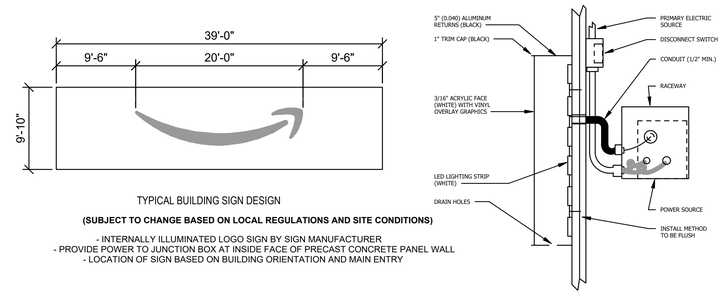


RED STOP LINE
USED ONLY AT GUARDHOUSE FOR VEHICLE ENTRY LANES 1 AND 2, AND VEHICLE EXIT LANES 1 AND 2.

WHITE STOP LINE
USED WHEN LEAVING AMAZON PROPERTY AT ANY INTERSECTION, WHEN MAKING A TURN LESS THAN 90 DEGREES, WHEN CROSSING DIRECTIONAL TRAFFIC, AND WHEN AN OVERFLOW SECONDARY TRAILER PARKING AREA INTERSECTS WITH THE TRAILER YARD.

VEHICLE STOP LINE
12" WIDE VEHICLE STOP LINE USED TO DESIGNATE WHEN A VEHICLE MUST COME TO A FULL COMPLETE STOP BEFORE MOVING FORWARD AND/OR MAKING A TURN.

VEHICLE STOP LINE



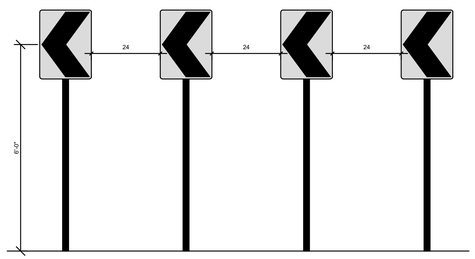
TYPICAL BUILDING SIGN DESIGN

(SUBJECT TO CHANGE BASED ON LOCAL REGULATIONS AND SITE CONDITIONS)

- INTERNALLY ILLUMINATED LOGO SIGN BY SIGN MANUFACTURER
- PROVIDE POWER TO JUNCTION BOX AT INSIDE FACE OF PRECAST CONCRETE PANEL WALL
- LOCATION OF SIGN BASED ON BUILDING ORIENTATION AND MAIN ENTRY

BUILDING SIGN MOUNTING DETAIL
(N.T.S)

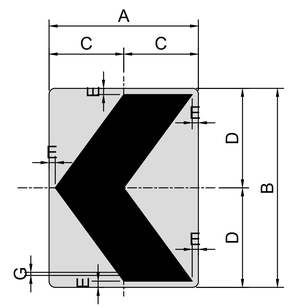
TYPICAL BUILDING SIGN



CHEVRON SIGN

18"X24"
INSTALL CHERONS 6' HIGH, MOUNTED TO EITHER A STRUCTURE OR SIGN POST. BLACK LETTERING ON SAFETY YELLOW RECLECTIVE BACKGROUND. PROVIDE SIGN WHERE SHARP BENDS ARE PRESENT WITHIN THE YARD AND/ OR VEHICLE TRAVEL PATH

CHEVRON SPACING

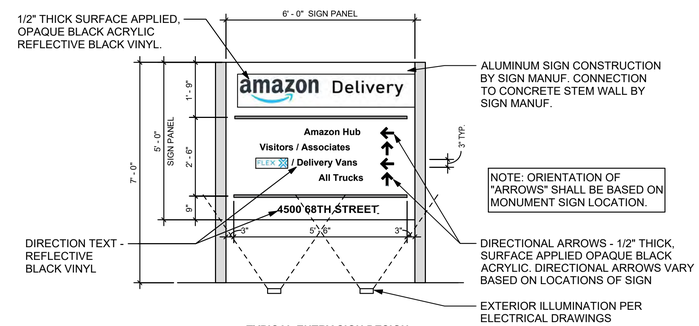


A	B	C	D	E	F	G
12 X 18		6"	9"	.5"	1.5"	.375"
18 X 24		9"	12"	.75"	1.5"	.375"
SIGN SIZE		WIDTH	HEIGHT	EDGE TO IMAGE	CORNER RADIUS	HOLE SIZE

CHEVRON DIMENSIONS

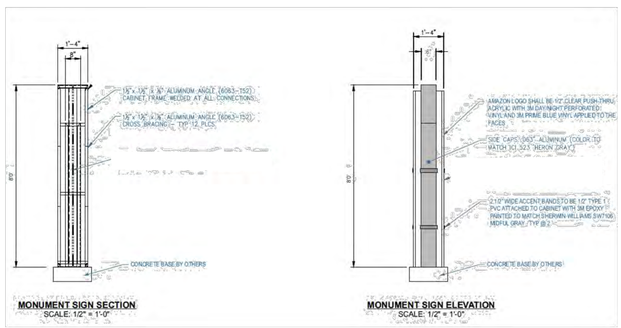
4' TALL WHITE PAVEMENT GRAPHICS APPLIED AT ENTRY, EXIT AND BOTH DIRECTIONS OF TRAFFIC FLOW. SPEED LIMIT MARKING SHOULD BE PLACED 75' AFTER ANY TURN AND CONTINUE 300' THEREAFTER.

SPEED ON ROAD

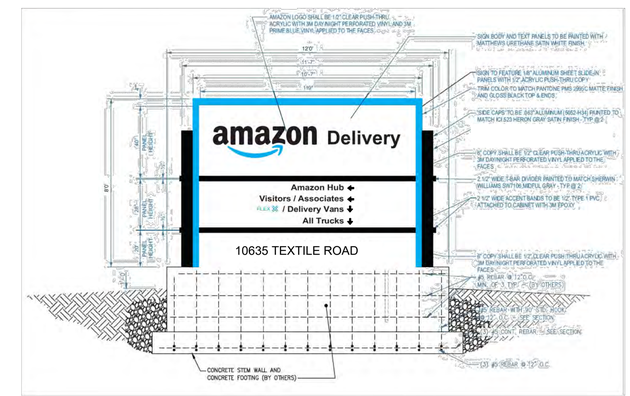


TYPICAL ENTRY SIGN DESIGN
(SUBJECT TO CHANGE BASED ON LOCAL REGULATIONS AND SITE CONDITIONS.)

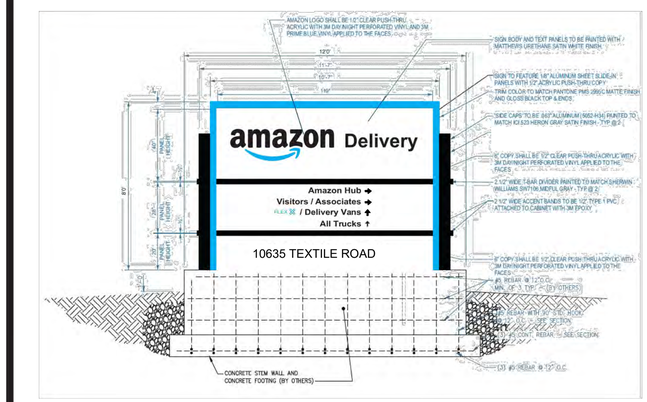
PYLON OPTION



Monument Sign



ILLUMINATED MONUMENT SIGN (MS-1), (EAST BOUND)



ILLUMINATED MONUMENT SIGN (MS-1), (WEST BOUND)

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SEAL
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BRAD W. BRICKEL
ENGINEER NO. 54071
LICENSED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

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Suite 220
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Contact:
Mr. Doug Houser
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SHEET
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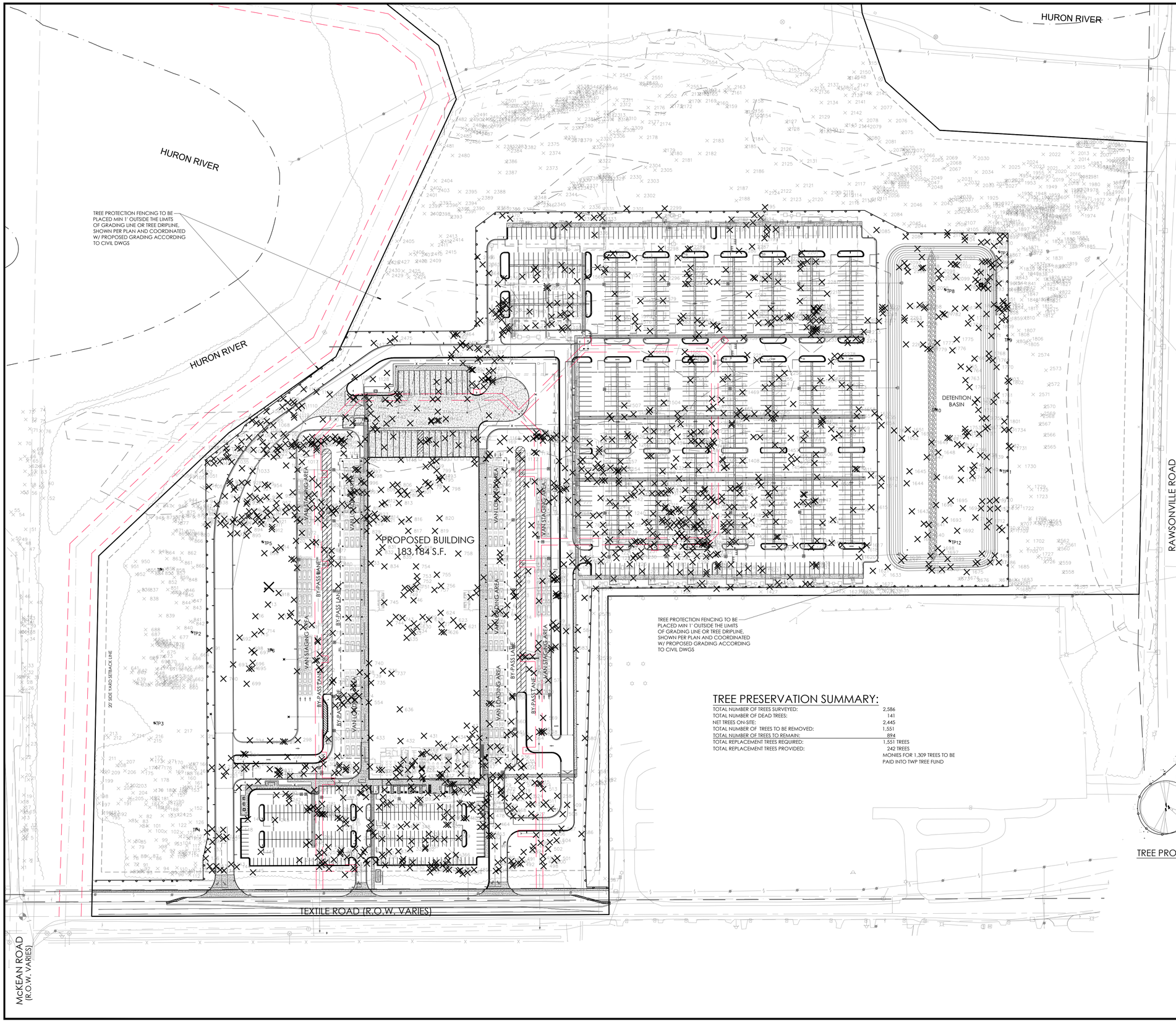
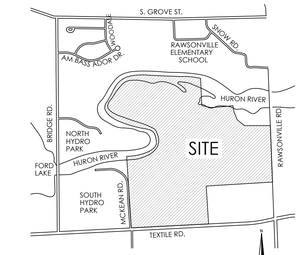
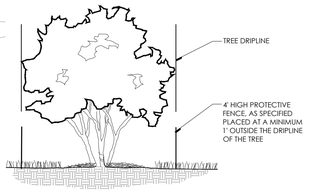




LOCATION MAP
N.T.S.

GENERAL TREE PROTECTION NOTES

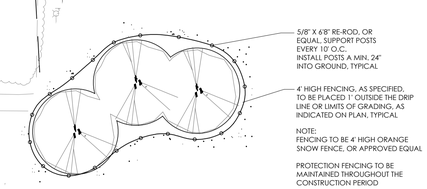
1. APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL THE IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
2. ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE PRESERVED.
3. NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN, INCLUDING BUT NOT LIMITED TO, PLACING SOLVENTS, BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS WITHIN THE DRIP LINE.
4. WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE PLACED AT THE LIMITS OF GRADING LINE.
5. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY TREE, SCHEDULED TO REMAIN.
6. ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE PROTECTIVE FENCING.
7. SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES OF PROTECTED TREES.
8. TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED.
9. ROOT ZONES OF PROTECTED TREES SHOULD BE SURROUNDED WITH RIGIDLY STAKED FENCING.
10. THE PARKING OF IDLE AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER THE DRIP LINE OF PROTECTED TREES.
11. THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED.
12. ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TREES TO REMAIN.
13. THE GRUBBING OF UNDERSTORY VEGETATION WITHIN CONSTRUCTION AREAS SHOULD BE CLEARED BY CUTTING VEGETATION AT THE GROUND WITH A CHAIN SAW OR MINIMALLY WITH A HYDRO-AXE.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT PER ORDINANCE GUIDELINES, FOR THE DAMAGE OR REMOVAL OF ANY TREE DESIGNATED TO REMAIN.
15. TREES TO BE REMOVED SHALL BE FIELD VERIFIED, EVALUATED AND FLAGGED FOR REMOVAL, BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.



TREE PROTECTION DETAIL-SECTION
NTS

TREE PRESERVATION SUMMARY:

TOTAL NUMBER OF TREES SURVEYED:	2,586
TOTAL NUMBER OF DEAD TREES:	141
NET TREES ON-SITE:	2,445
TOTAL NUMBER OF TREES TO BE REMOVED:	1,551
TOTAL NUMBER OF TREES TO REMAIN:	894
TOTAL REPLACEMENT TREES REQUIRED:	1,551 TREES
TOTAL REPLACEMENT TREES PROVIDED:	242 TREES MONIES FOR 1,309 TREES TO BE PAID INTO TWP TREE FUND



TREE PROTECTION DETAIL-PLAN
NTS

LEGEND:

- TREES TO BE REMOVED
- 950 TREES TO REMAIN
- TREE PROTECTION FENCING

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DRAWN BY:
G. Ostrowski
DESIGNED BY:
G. Ostrowski
APPROVED BY:
G. Ostrowski
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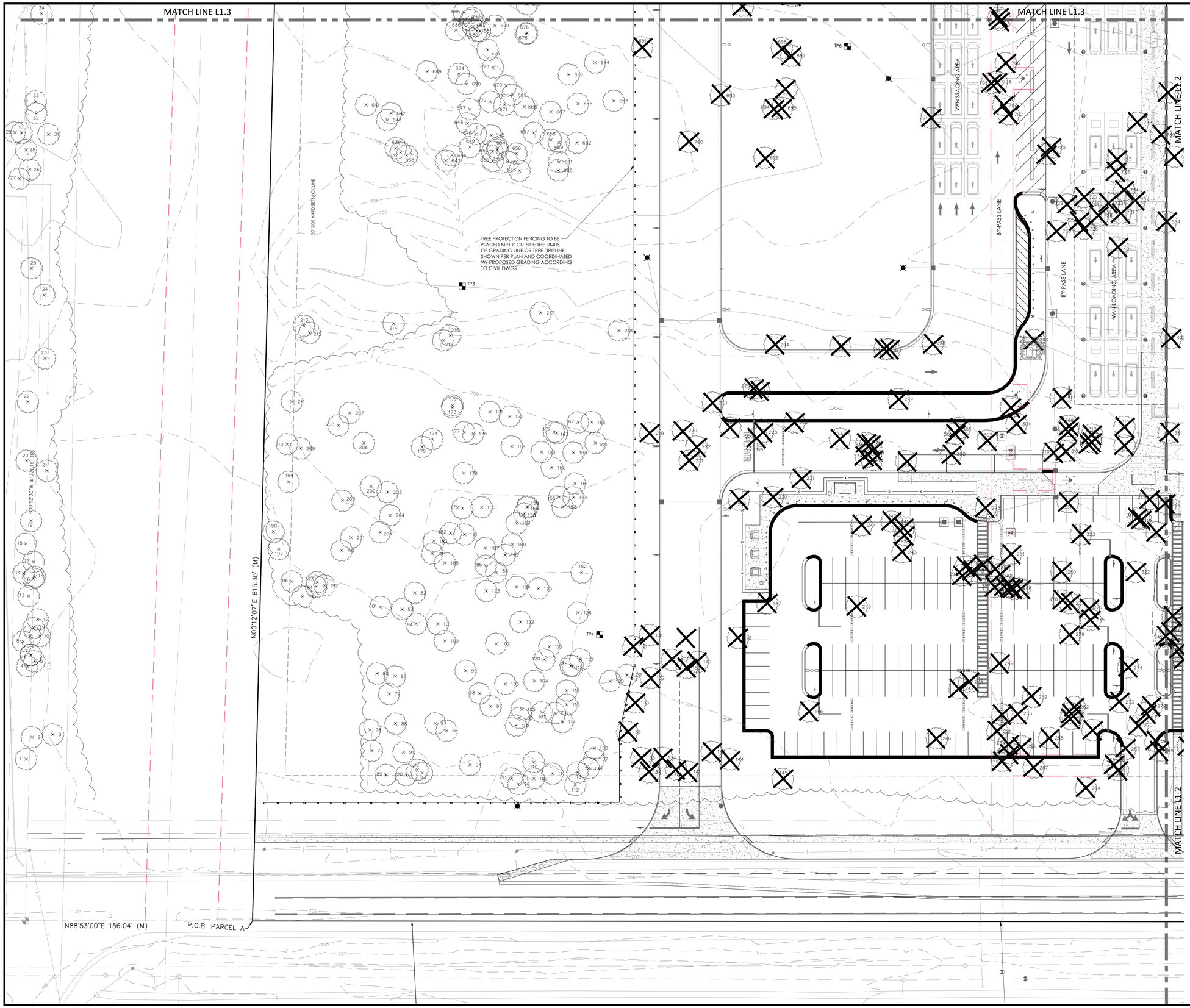
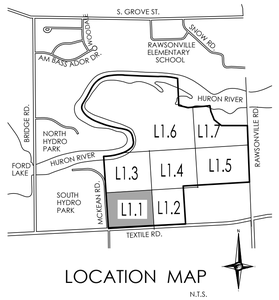
September 24, 2021
SCALE: 1" = 100'
100 50 0 50 100 150

NFE JOB NO.
M278-01
SHEET NO.
L1.0





LOCATION MAP

N.T.S.

LEGEND:

- TREES TO BE REMOVED
- TREES TO REMAIN
- TREE PROTECTION FENCING

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WWW.NOWAKFRAUS.COM

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Detailed Tree
Preservation Plan

Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
G. Ostrowski

DESIGNED BY:
G. Ostrowski

APPROVED BY:
G. Ostrowski

DATE:
September 24, 2021

SCALE: 1" = 30'

NFE JOB NO. M278-01

SHEET NO. L1.1

MATCH LINE L1.4

MATCH LINE L1.1

PROPOSED BUILDING
183,184SF.
F.F. 703.00

BY-PASS LANE

VAN STACKING AREA

VAN LOADING AREA

DO-NOT-ENTER

STOP

ONLY

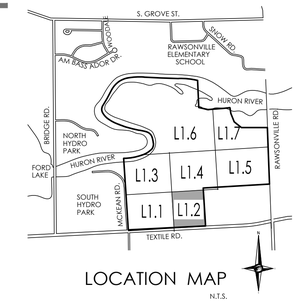
TREE PROTECTION FENCING TO BE PLACED MIN 1' OUTSIDE THE LIMITS OF GRADING LINE OR TREE DRIPLINE. SHOWN PER PLAN AND COORDINATED W/ PROPOSED GRADING ACCORDING TO CIVIL DWGS

S01°07'00"E
720.00' (M)

TEXTILE ROAD (R.O.W. VARIES)

LEGEND:

- TREES TO BE REMOVED
- TREES TO REMAIN
- TREE PROTECTION FENCING



LOCATION MAP
N.T.S.

N
W E
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NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
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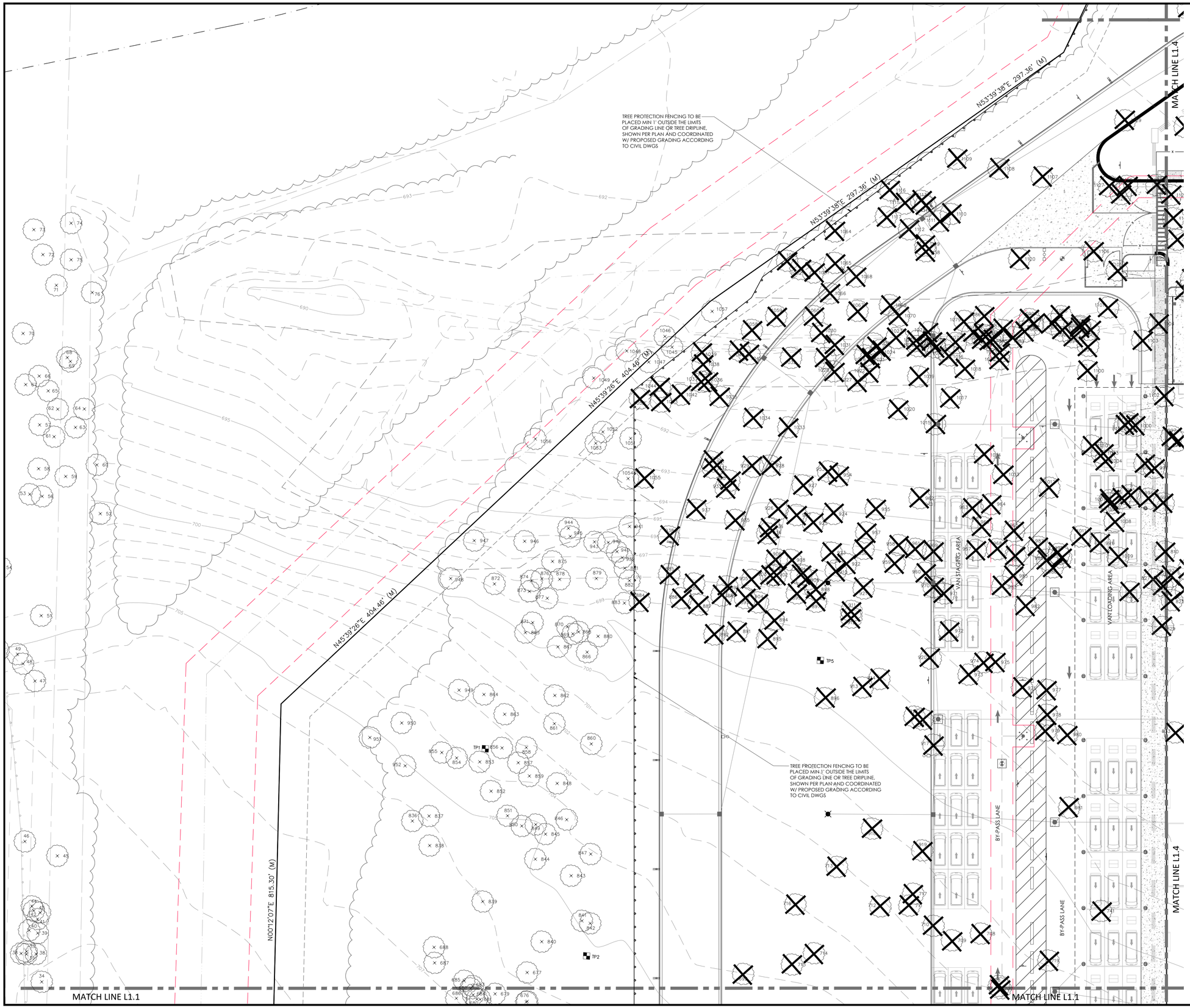
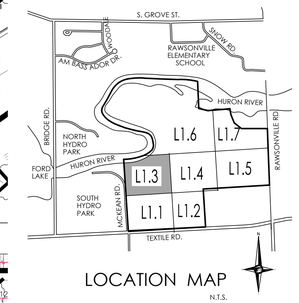
NFE JOB NO.
M278-01

SHEET NO.
L1.2





LOCATION MAP

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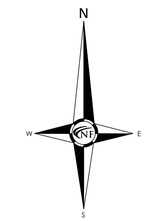

LEGEND:

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- TREE PROTECTION FENCING

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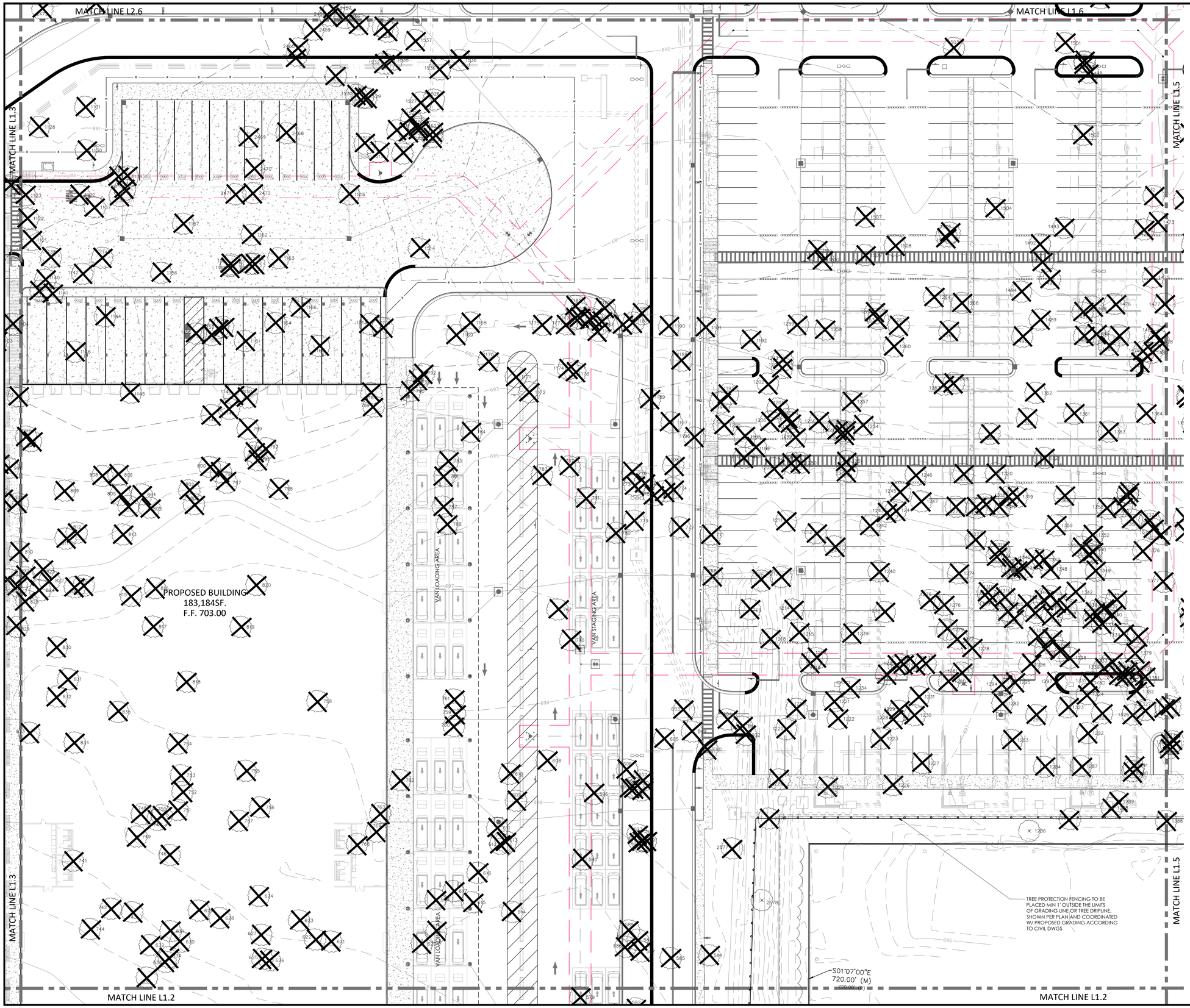
NFE JOB NO. **M278-01**

SHEET NO. **L1.3**



LOCATION MAP

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LEGEND:

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SHEET NO. L1.4

MATCH LINE L1.7

MATCH LINE L1.4

DETENTION BASIN

TP10

TP11

TP12

S88°53'00"W 1200.43' (M)
1200.77' (R)

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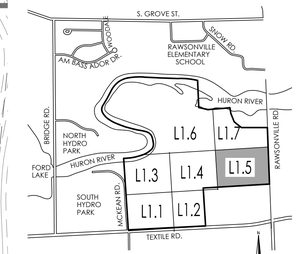

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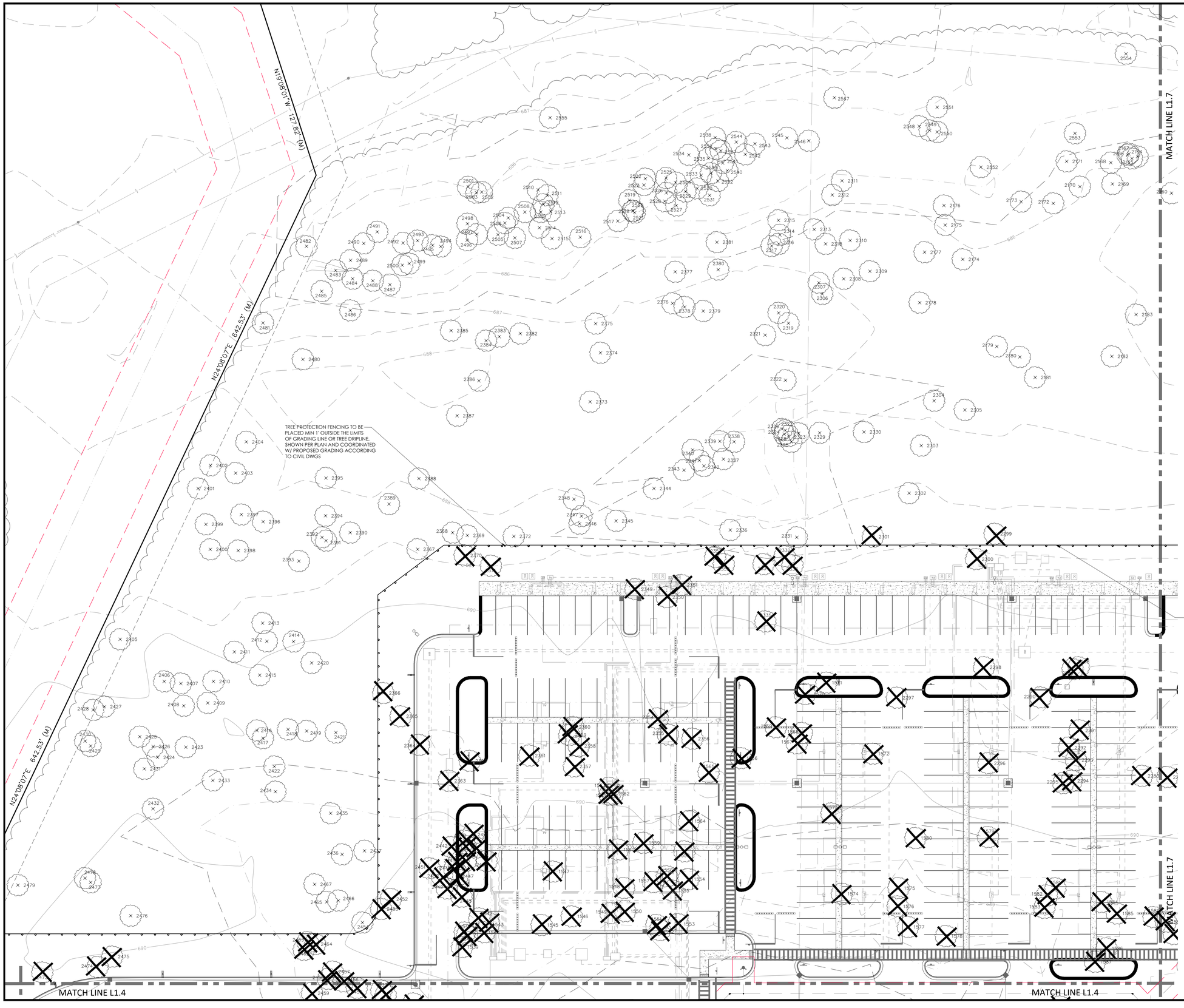
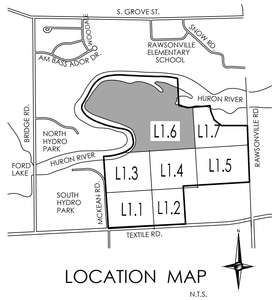
NFE JOB NO. **M278-01**

SHEET NO. **L1.5**





LOCATION MAP

N.T.S.

N
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E
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LEGEND:

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SEAL

STATE OF MICHIGAN
GEORGE A. OSTROWSKI JR.
REGISTERED PROFESSIONAL ENGINEER

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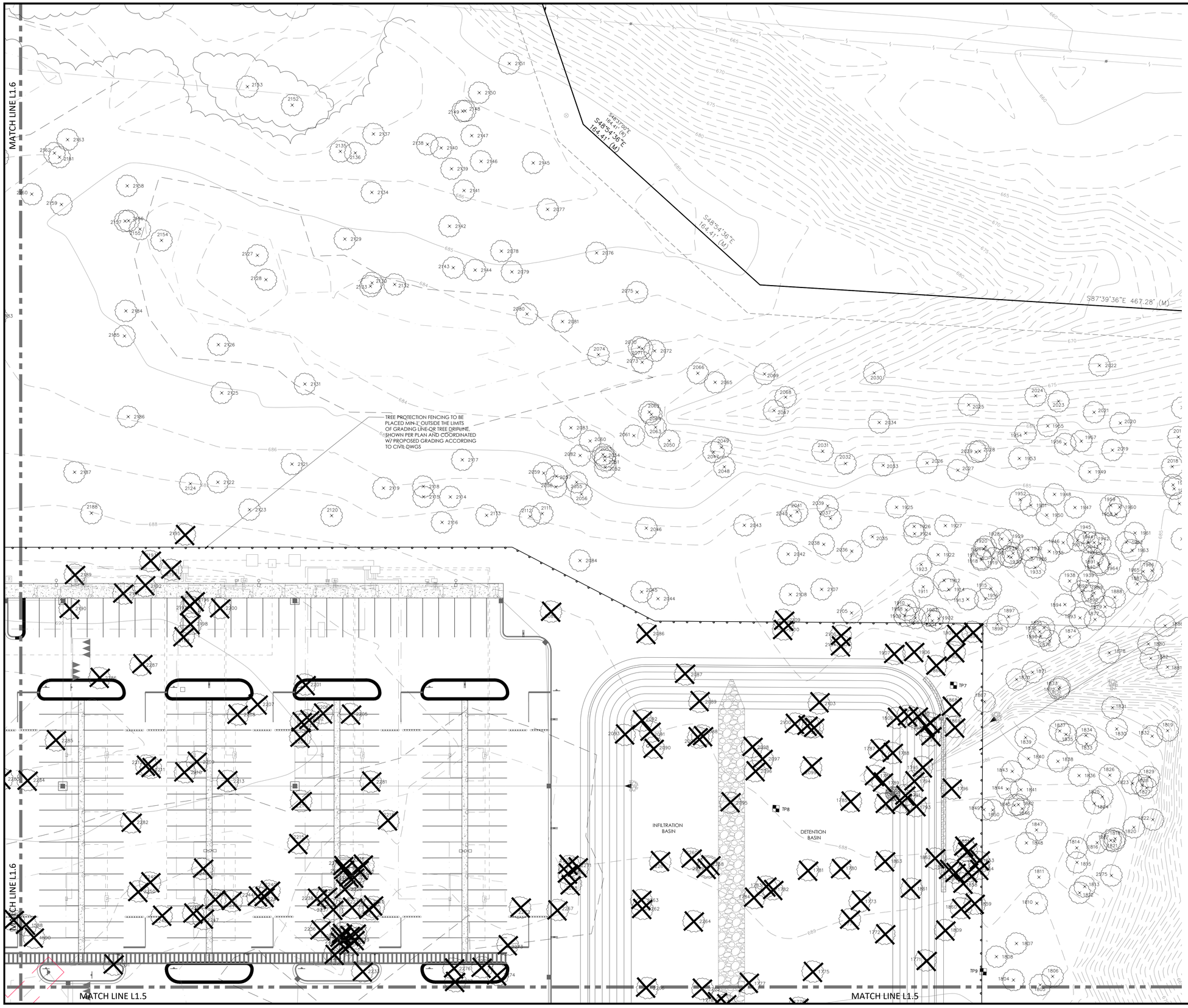

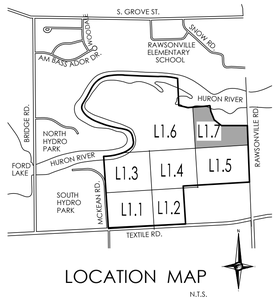

LOCATION MAP

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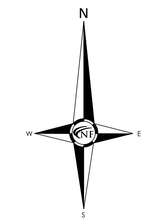

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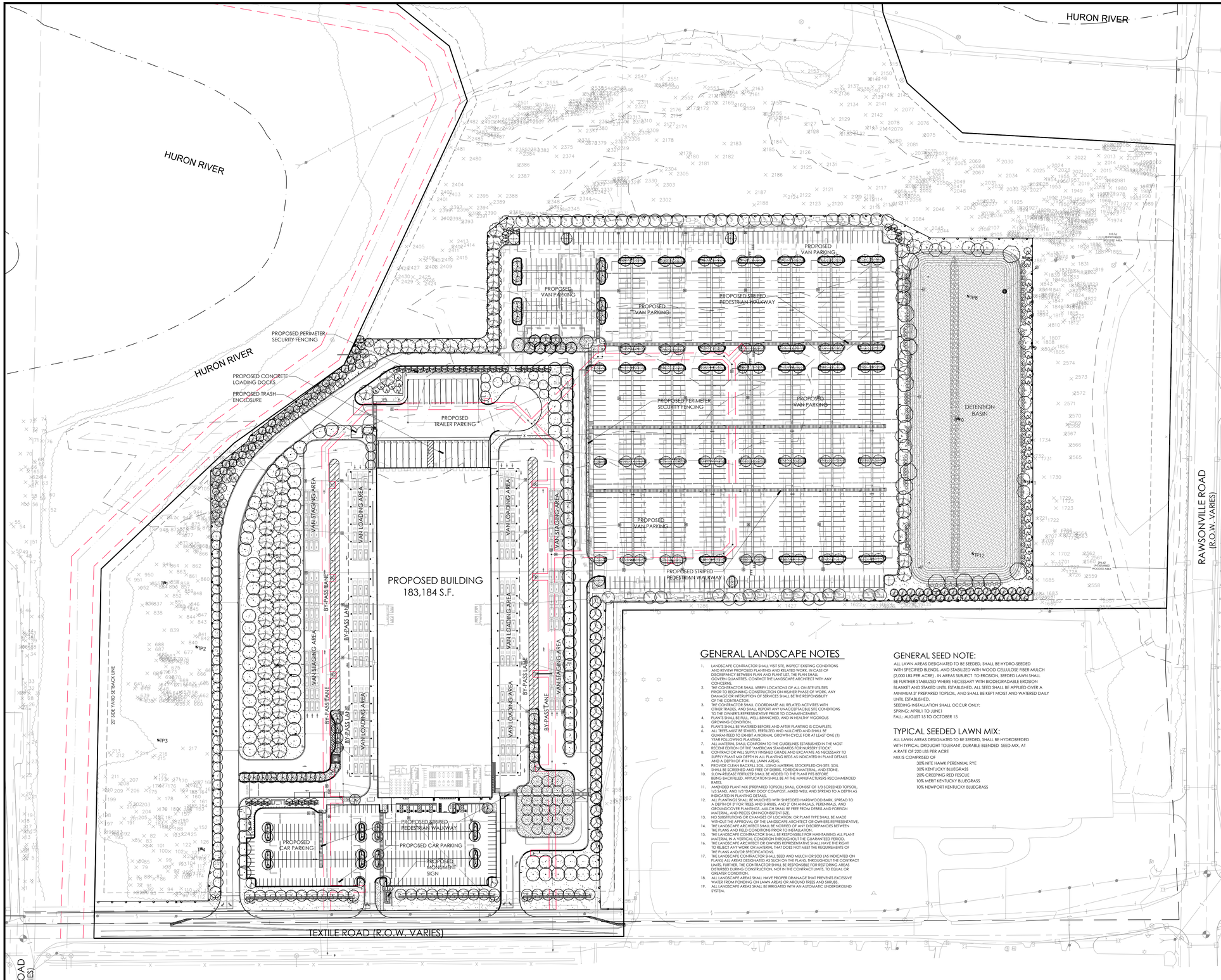
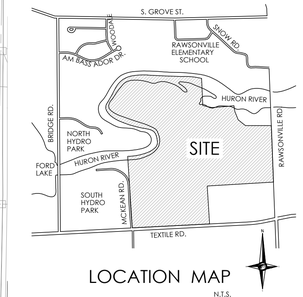
SHEET NO. **L1.7**





LOCATION MAP
N.T.S.

LANDSCAPE REQUIREMENTS

GENERAL SITE LANDSCAPE (G)
1 TREE PER 1,000 S.F. & 1 SHRUB PER 500 S.F.
NOT COVERED BY BLDG, PKG, ETC
REQUIRED: 689,307.66 S.F. / 1,000 = 689 TREES; 1,379 SHRUBS
PROVIDED: 2,204,912 S.F. OR 50.62 ACRES (53% OF SITE)
WOODED AREA TO REMAIN UNDISTURBED

STREET YARD LANDSCAPE (F)
1 DECIDUOUS TREE PER 40 L.F. OF FRONTAGE
1 ORNAMENTAL TREE PER 100 L.F. OF FRONTAGE
1 SHRUB PER 10 L.F.
TEXTILE ROAD: 1,168 L.F.
REQUIRED: 1,168 L.F. / 40 L.F. = 29.2 OR 29 TREES
1,168 L.F. / 100 L.F. = 11.68 OR 12 TREES
1,168 L.F. / 10 L.F. = 116.8 OR 117 SHRUBS
PROVIDED: 29 TREES, 12 ORNAMENTAL TREES, 134 SHRUBS

RAWSONVILLE ROAD: 1,023 L.F.
REQUIRED: 1,023 L.F. / 40 L.F. = 25.58 OR 26 TREES
1,023 L.F. / 100 L.F. = 10.23 OR 10 TREES
1,023 L.F. / 10 L.F. = 102.3 OR 102 SHRUBS
PROVIDED: NONE DUE TO HEAVILY WOODED AREA BETWEEN RIGHT-OF-WAY LINE AND DEVELOPED AREA

PARKING LOT LANDSCAPE REQUIREMENT (P)
1 TREE PER 3,000 S.F. OF PAVED AREA
PAVED AREA: 1,039,264.25
1,039,264.25 S.F. / 3,000 = 346.42 OR 346 TREES REQUIRED
PROVIDED: 346 TREES

PERIMETER LANDSCAPE BUFFER (B)
1 EVERGREEN TREE PER 25 L.F.
1 DECIDUOUS TREE PER 50 L.F.
1 SHRUB PER 10 L.F.
BUFFER LENGTH: 791.65 L.F.
REQUIRED:
791.65 L.F. / 25 L.F. = 31.66 OR 32 EVERGREEN TREES
791.65 L.F. / 50 L.F. = 15.8 OR 16 DECIDUOUS TREES
791.65 L.F. / 10 L.F. = 79.17 OR 79 SHRUBS
PROVIDED: 41 EVERGREEN TREES, 22 DECIDUOUS TREES, 104 SHRUBS

DETENTION BASIN LANDSCAPE (D)
1 TREE AND 10 SHRUBS PER 50 L.F. OF POND PERIMETER
REQUIRED:
POND PERIMETER: 1,866 L.F./ 50 L.F. = 37.32 OR 37 TREES
1,866 L.F. / 50 L.F. X 10 = 373.2 OR 373 SHRUBS
BUILDING 'B': PERIMETER OF BUILDING 574.92 L.F. X 4' = 2,299.68 S.F.
PROVIDED: 37 TREES AND 373 SHRUBS

WOODLAND REPLACEMENTS (W)
REQUIRED: 1,551 TREES
PROVIDED: 242 PROVIDED ON-SITE. 1,309 TREES WILL BE PAID INTO THE TREE FUND

GENERAL LANDSCAPE NOTES

1. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK, IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, THE PLAN SHALL GOVERN QUANTITIES. CONTACT THE LANDSCAPE ARCHITECT WITH ANY CONCERNS.
2. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON-SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ANY DAMAGE OR INTERUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES, AND SHALL REPORT ANY UNACCEPTABLE SITE CONDITIONS TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT.
4. PLANTS SHALL BE FULL, WELL-BRANCHED, AND IN HEALTHY VIGOROUS GROWING CONDITION.
5. PLANTS SHALL BE WATERED BEFORE AND AFTER PLANTING IS COMPLETE.
6. ALL TREES MUST BE STAKED, FERTILIZED AND MULCHED AND SHALL BE GUARANTEED TO EXHIBIT A NORMAL GROWTH CYCLE FOR AT LEAST ONE (1) YEAR FOLLOWING PLANTING.
7. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED IN THE MOST RECENT EDITION OF THE "AMERICAN STANDARDS FOR NURSERY STOCK".
8. CONTRACTOR WILL SUPPLY FINISHED GRADE AND EXCAVATE AS NECESSARY TO SUPPLY PLANT MIX DEPTH IN ALL PLANTING BEDS AS INDICATED IN PLANT DETAILS AND A DEPTH OF 4' IN ALL LAWN AREAS.
9. PROVIDE CLEAN BACKFILL SOIL. USING MATERIAL STOCKPILED ON-SITE. SOIL SHALL BE SCREENED AND FREE OF DEBRIS, FOREIGN MATERIAL, AND STONE.
10. SLOW-RELEASE FERTILIZER SHALL BE ADDED TO THE PLANT PITS BEFORE BEING BACKFILLED. APPLICATION SHALL BE AT THE MANUFACTURERS RECOMMENDED RATES.
11. AMENDED PLANT MIX (PREPARED TOPSOIL) SHALL CONSIST OF 1/3 SCREENED TOPSOIL, 1/3 SAND, AND 1/3 "DAIRY DOO" COMPOST. MIXED WELL AND SPREAD TO A DEPTH AS INDICATED IN PLANTING DETAILS.
12. ALL PLANTINGS SHALL BE MULCHED WITH SHREDDED HARDWOOD BARK. SPREAD TO A DEPTH OF 3" FOR TREES AND SHRUBS, AND 2" ON ANNUALS, PERENNIALS, AND GROUNDCOVER PLANTINGS. MULCH SHALL BE FREE FROM DEBRIS AND FOREIGN MATERIAL, AND PIECES ON INCONSISTENT SIZE.
13. NO SUBSTITUTIONS OR CHANGES OF LOCATION, OR PLANT TYPE SHALL BE MADE WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE.
14. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS PRIOR TO INSTALLATION.
15. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANT MATERIAL IN A VERTICAL CONDITION THROUGHOUT THE GUARANTEED PERIOD.
16. THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE SHALL HAVE THE RIGHT TO REJECT ANY WORK OR MATERIAL THAT DOES NOT MEET THE REQUIREMENTS OF THE PLANS AND/OR SPECIFICATIONS.
17. THE LANDSCAPE CONTRACTOR SHALL SEED AND MULCH OR SOD (AS INDICATED ON PLANS) ALL AREAS DESIGNATED AS SUCH ON THE PLANS, THROUGHOUT THE CONTRACT LIMITS. FURTHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING AREAS DISTURBED DURING CONSTRUCTION, NOT IN THE CONTRACT LIMITS, TO EQUAL OR GREATER CONDITION.
18. ALL LANDSCAPE AREAS SHALL HAVE PROPER DRAINAGE THAT PREVENTS EXCESSIVE WATER FROM PONDING ON LAWN AREAS OR AROUND TREES AND SHRUBS.
19. ALL LANDSCAPE AREAS SHALL BE IRRIGATED WITH AN AUTOMATIC UNDERGROUND SYSTEM.

GENERAL SEED NOTE:

ALL LAWN AREAS DESIGNATED TO BE SEEDED, SHALL BE HYDRO-SEEDED WITH SPECIFIED BLENDS, AND STABILIZED WITH WOOD CELLULOSE FIBER MULCH (2,000 LBS PER ACRE) . IN AREAS SUBJECT TO EROSION, SEEDED LAWN SHALL BE FURTHER STABILIZED WHERE NECESSARY WITH BIODEGRADABLE EROSION BLANKET AND STAKED UNTIL ESTABLISHED. ALL SEED SHALL BE APPLIED OVER A MINIMUM 3" PREPARED TOPSOIL, AND SHALL BE KEPT MOIST AND WATERED DAILY UNTIL ESTABLISHED.
SEEDING INSTALLATION SHALL OCCUR ONLY:
SPRING: APRIL1 TO JUNE1
FALL: AUGUST 15 TO OCTOBER 15

TYPICAL SEEDED LAWN MIX:

ALL LAWN AREAS DESIGNATED TO BE SEEDED, SHALL BE HYDROSEEDED WITH TYPICAL DROUGHT TOLERANT, DURABLE BLENDED SEED MIX, AT A RATE OF 220 LBS PER ACRE
MIX IS COMPRISED OF
30% NITE HAWK PERENNIAL RYE
30% KENTUCKY BLUEGRASS
20% CREEPING RED FESCUE
10% MERIT KENTUCKY BLUEGRASS
10% NEWPORT KENTUCKY BLUEGRASS

IRRIGATION NOTE:

ALL LANDSCAPE AREAS, INCLUDING THOSE WITHIN THE R.O.W. SHALL BE IRRIGATED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. THE SYSTEM SHALL OPERATE IN COMPLIANCE WITH LOCAL STANDARDS AND SEASONAL RESTRICTIONS. SEPARATE ZONES SHALL BE PROVIDED FOR LAWN AREAS AND PLANTING BEDS. IRRIGATION SHALL BE DESIGNED IN THE THE MOST EFFICIENT MANNER NECESSARY TO FULLY IRRIGATE ALL PLANTING AREAS.

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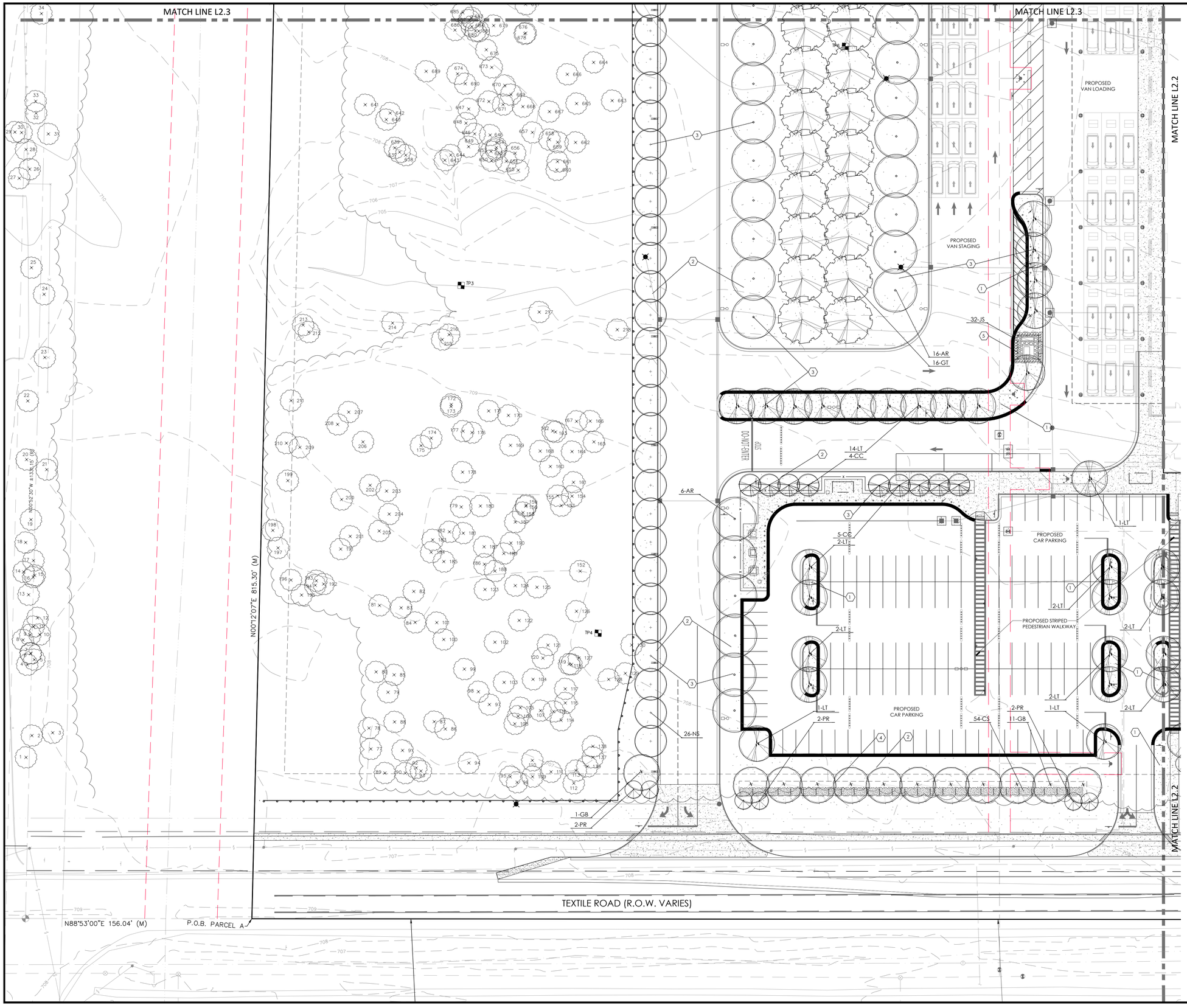
SHEET
Overall Landscape Plan

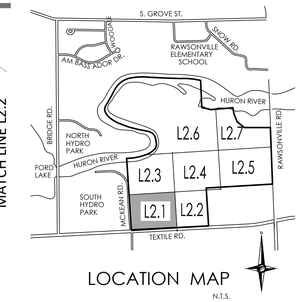
811 Know what's below Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY: G. Ostrowski
DESIGNED BY: G. Ostrowski
APPROVED BY: G. Ostrowski
DATE: September 24, 2021
SCALE: 1" = 100'
100 50 0 50 100 150

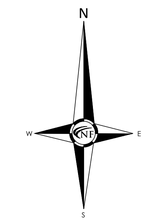
NFE JOB NO. M278-01
SHEET NO. L2.0





LOCATION MAP

N.T.S.



GROUNDCOVER KEY

1. TYPICAL SOD LAWN AREAS, SOWN ON 3" TOPSOIL
2. RESTORE EXISTING LAWN AREAS W/ HYDROSEED AND MULCH
3. 4' DIA SPADE CUT EDGE W/ 3" SHREDDED BARK MULCH
4. 3" DEPTH DOUBLE SHREDDED HARDWOOD BARK MULCH
5. 3/4" - 1 1/2" STONE MULCH, 3-4" DEPTH ON WEED BARRIER

NF ENGINEERS

CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

STATE OF MICHIGAN
GREGORY A. OSTROWSKI
No. 47101
REGISTERED PROFESSIONAL ENGINEER

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Detailed Landscape Plan

811
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DRAWN BY:
G. Ostrowski

DESIGNED BY:
G. Ostrowski

APPROVED BY:
G. Ostrowski

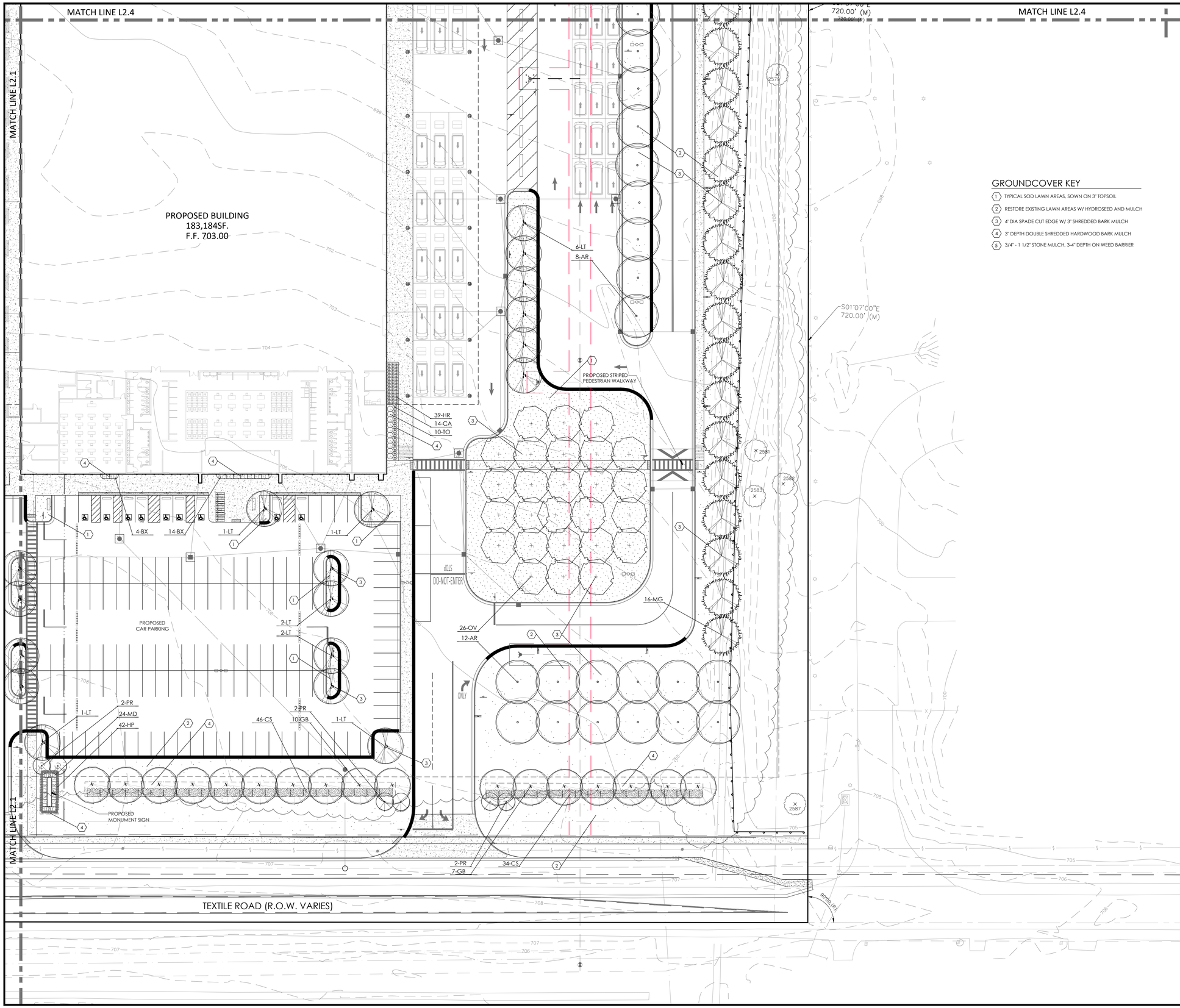
DATE:
September 24, 2021

SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. **M278-01**

SHEET NO. **L2.1**



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LOCATION MAP

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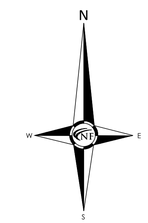

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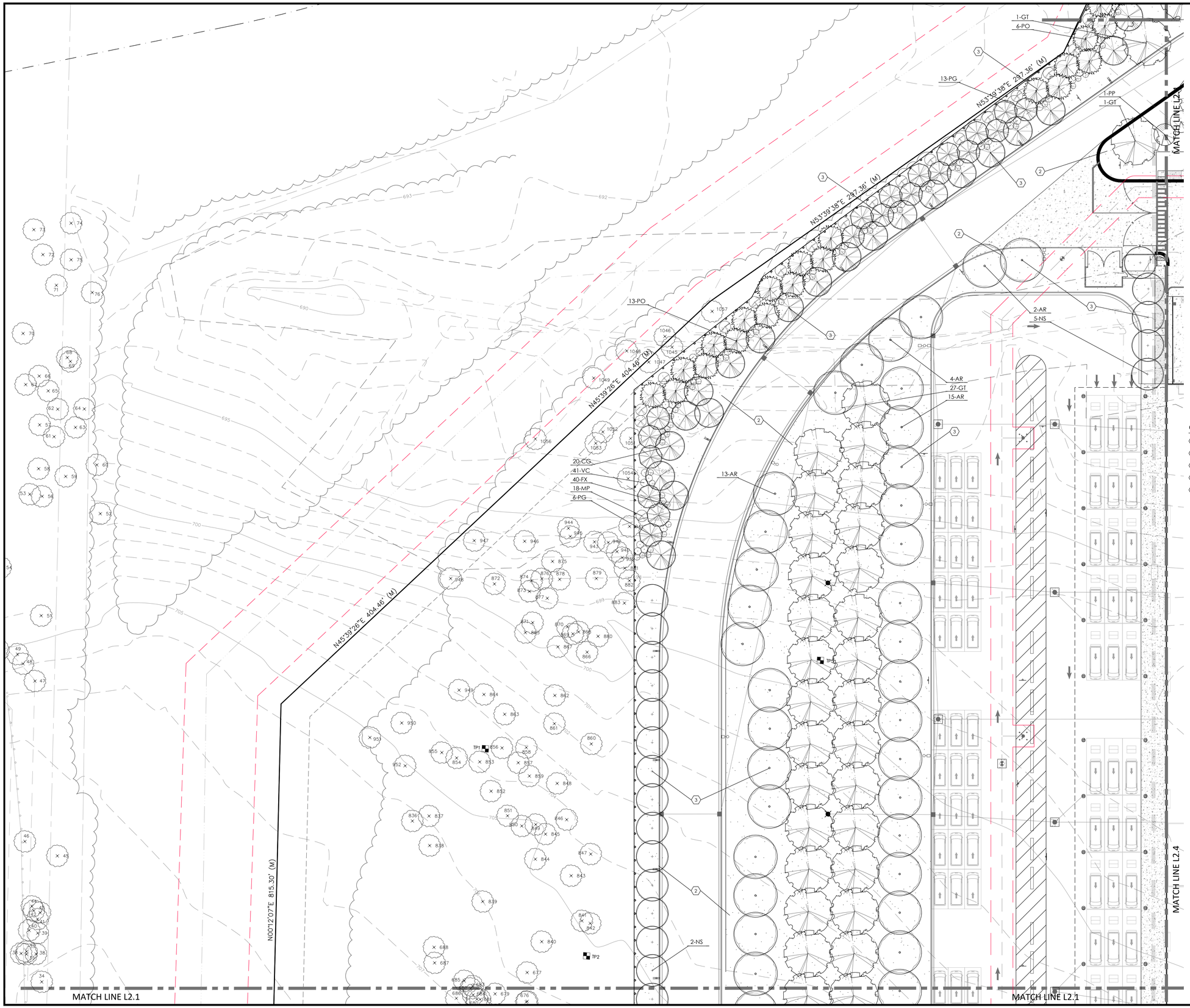
NFE JOB NO. **M278-01**

SHEET NO. **L2.2**



LOCATION MAP

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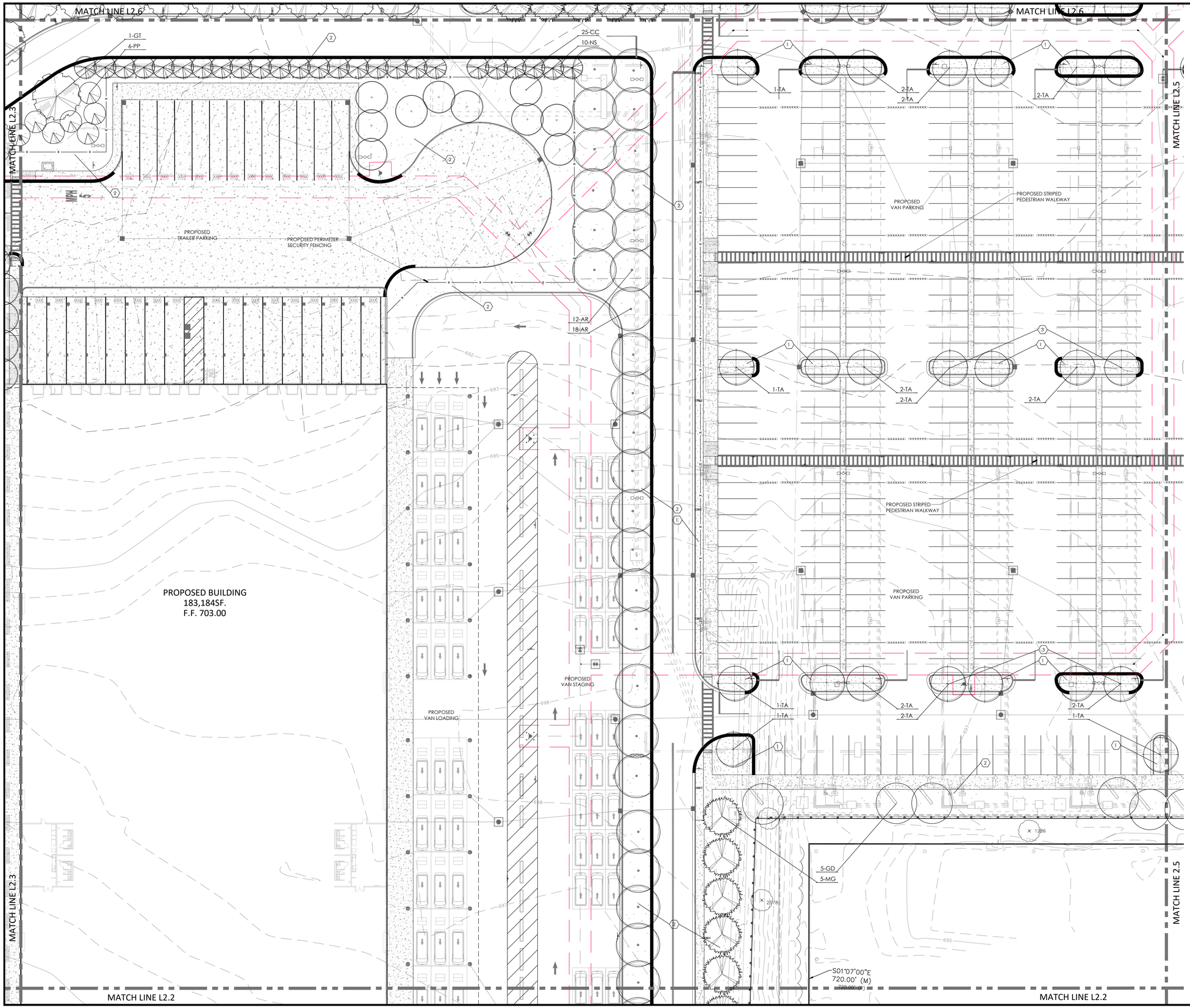
NFE JOB NO. **M278-01**

SHEET NO. **L2.3**



LOCATION MAP

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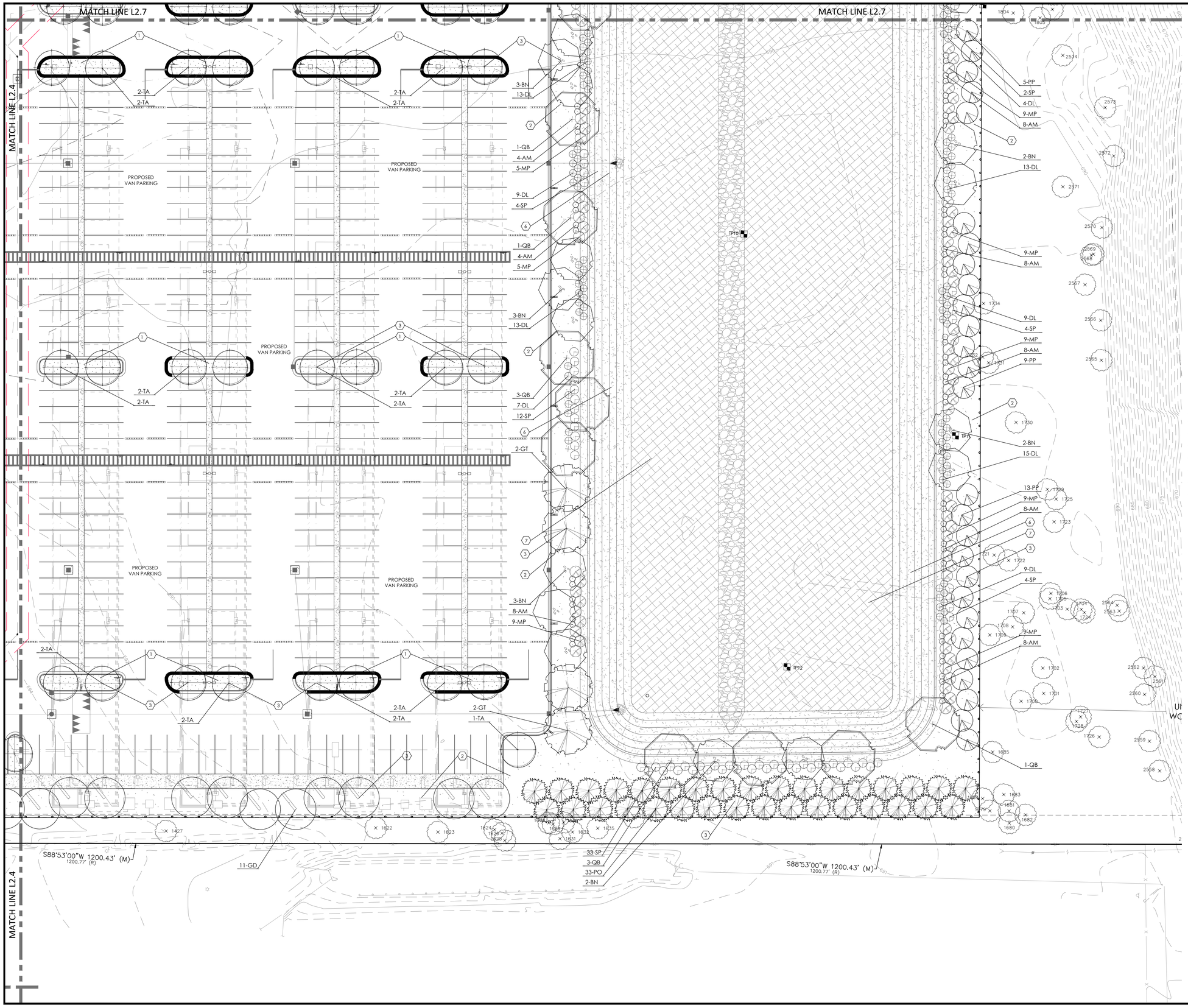
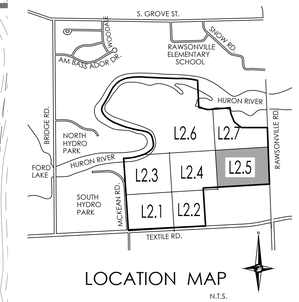
NFE JOB NO. M278-01

SHEET NO. L2.4





LOCATION MAP

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6. SEDGE BANK SEED MIX, SOWN AT A RATE OF 40 LBS/AC
7. DETENTION BASIN FLOOR SEED MIX, SOWN AT A RATE OF 40 LBS/AC

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SEAL

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GEORGE A. OSTROWSKI JR.
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DESIGNED BY:
G. Ostrowski

APPROVED BY:
G. Ostrowski

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NFE JOB NO. **M278-01**

SHEET NO. **L2.5**

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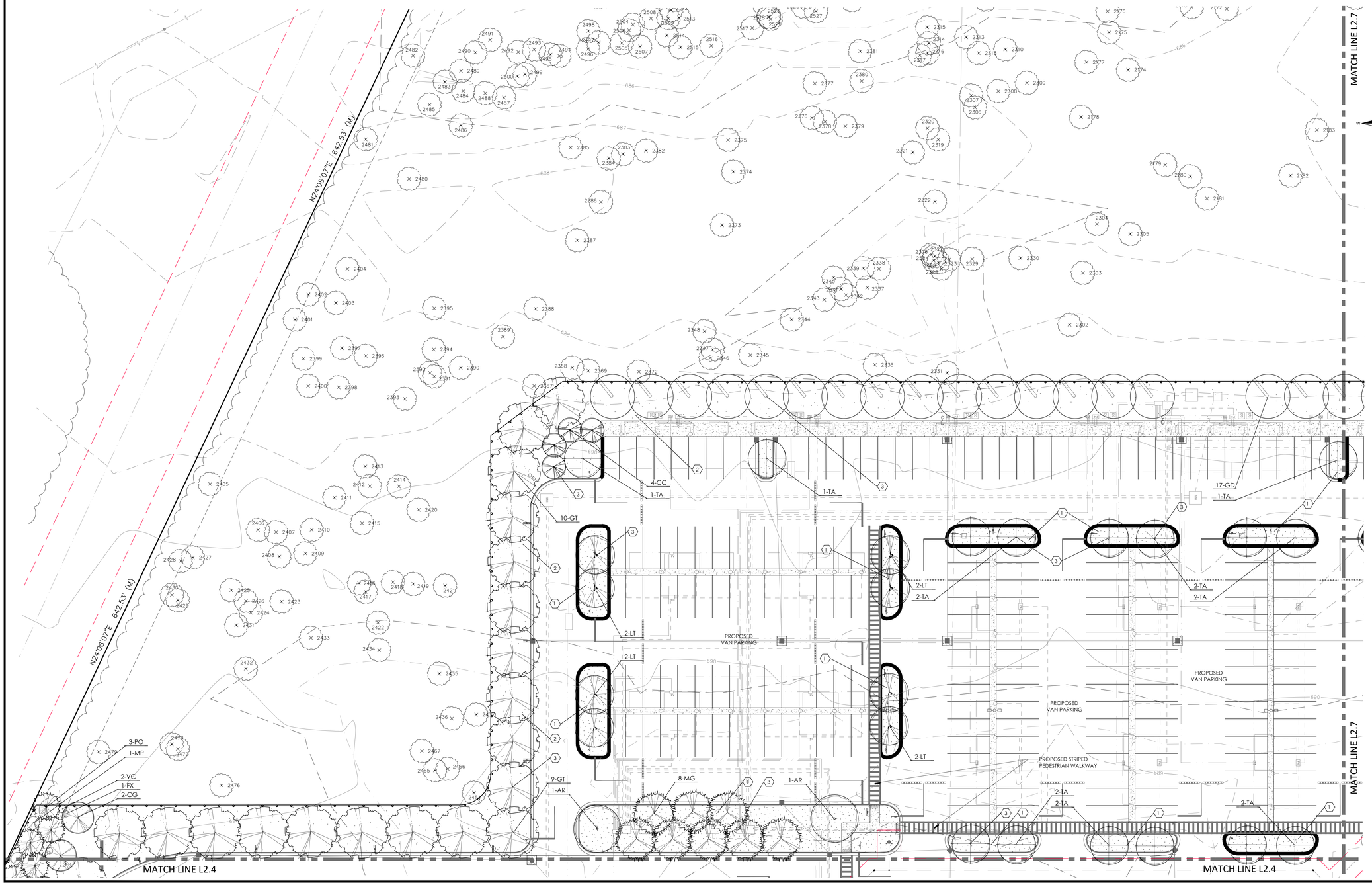

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APPROVED BY: G. Ostrowski
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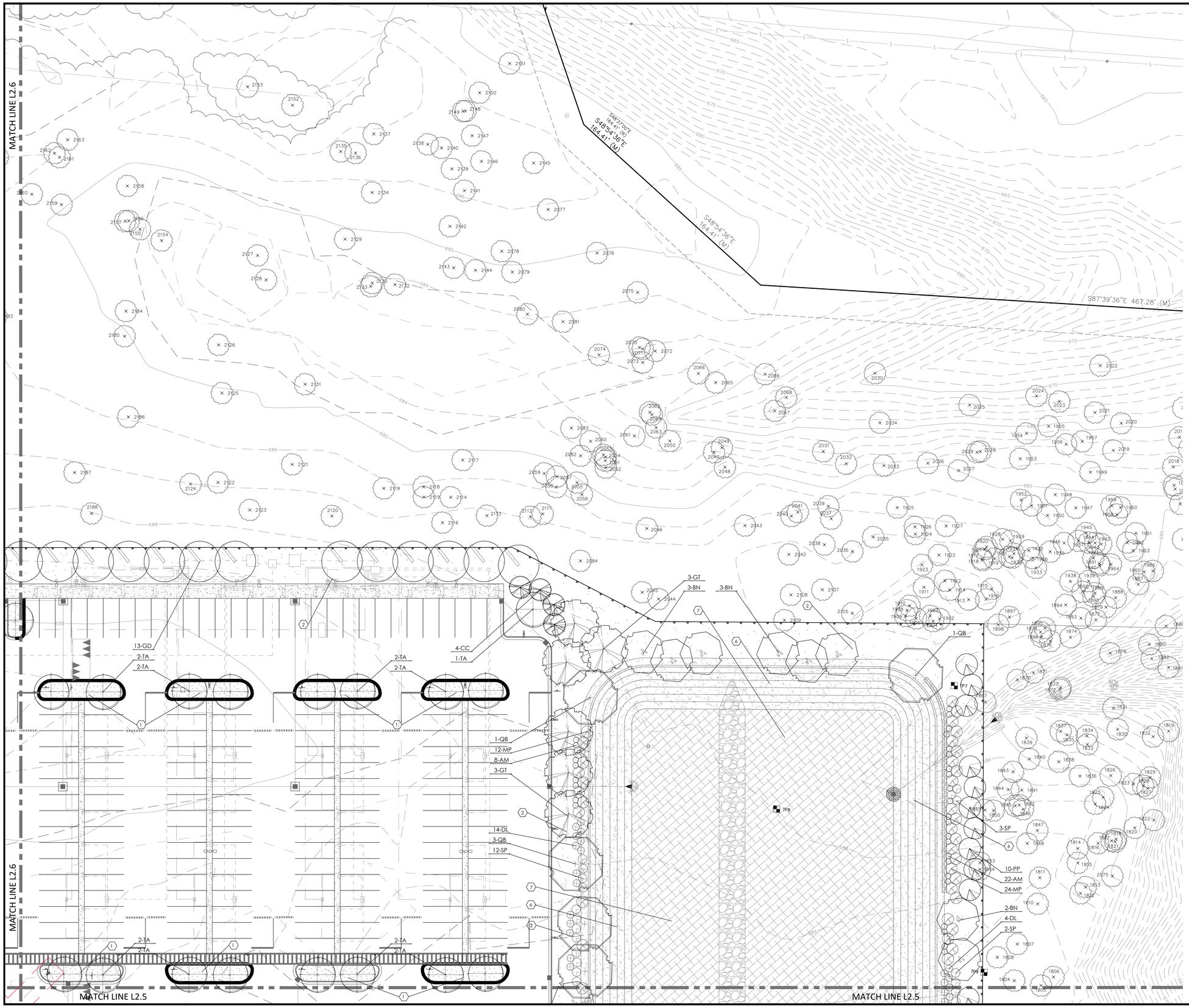
NFE JOB NO. M278-01
SHEET NO. L2.6



LOCATION MAP

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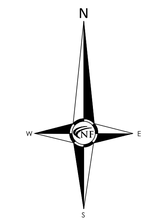

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G. Ostrowski

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G. Ostrowski

APPROVED BY:
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DATE:
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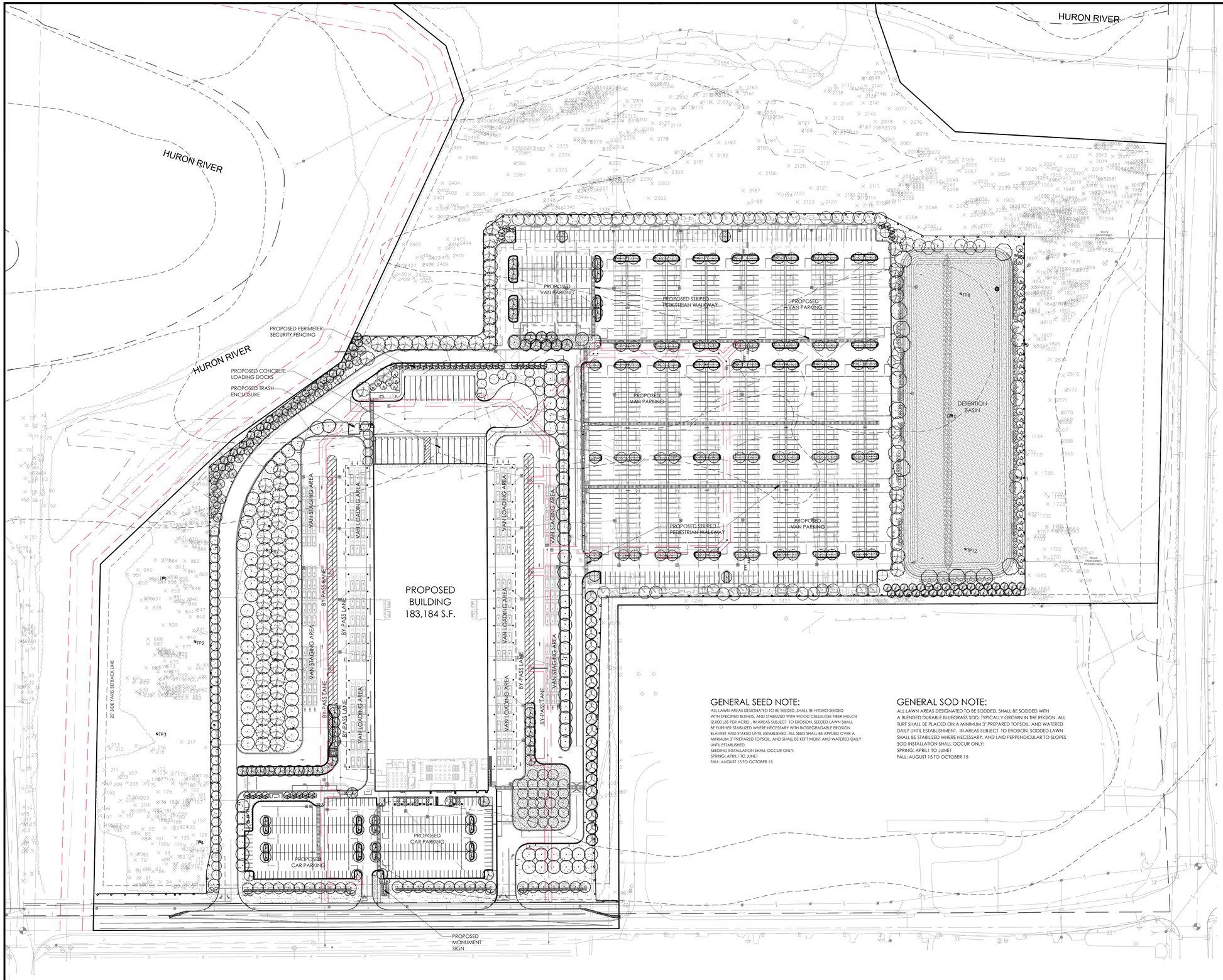
SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. **M278-01**

SHEET NO. **L2.7**



LOCATION MAP
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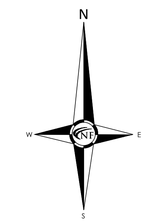

TYPICAL LAWN MIX:

ALL LAWN AREAS DESIGNATED TO BE SEEDED, SHALL BE HYDROSEEDED WITH TYPICAL DROUGHT TOLERANT, DURABLE BLENDED SEED MIX, AT A RATE OF 220 LBS PER ACRE
MIX IS COMPRISED OF

- 30% RITE HAWK PERENNIAL RYE
- 30% KENTUCKY BLUEGRASS
- 20% CREEPING RED FESCUE
- 10% MERIT KENTUCKY BLUEGRASS
- 10% NEWPORT KENTUCKY BLUEGRASS

SEDGE BANK SEED MIX

*CONTAINS 10 NATIVE GRASSES AND 2 TEMPORARY GRASSES

30% NATIVE GRASSES	70% TEMPORARY GRASSES
COSMOS SEDGE	SEED OATS
FRINGED SEDGE	AMERICAN SLOUGH GRASS
LIRD SEDGE	ANNUAL RYE
FOX SEDGE	
CREEPING SPIKE RUSH	
FOWL MANNA GRASS	
COMMON RUSH	
HARDSTEM BULRUSH	
GREEN BULRUSH	
WOOL GRASS	
SOFT-STEM BULRUSH	
GIANT BUR REED	

RECOMMENDED SEEDING RATE: 40 LBS/ACRE

SEED MIX AVAILABLE:
NATIVESCAPE, LLC
PO BOX 122
MANCHESTER, MI 48158
T 517.456.9696

DETENTION BASIN FLOOR MIX

*CONTAINS AT LEAST 12 WILDFLOWERS AND 4 GRASSES

WILDFLOWERS	NATIVE GRASSES
NEW ENGLAND ASTER	BIG BLUESTEM
PALE INDIAN PLANTAIN	CANADA WILD RYE
JOE PYE WEED	DARK GREEN BULRUSH
BONESET	INDIAN GRASS
OX EYE SUNFLOWER	PRAIRIE CORD GRASS
DENSE BLAZINGSTAR	WETLAND SEDGES
GREAT BLUE LOBELIA	
CARDINAL FLOWER	TEMPORARY GRASSES
GREEN-HEADED CONEFLOWER	SEED OATS
BLACK-EYED SUSAN	ANNUAL RYE
CUPPLANT	WINTER WHEAT
OHIO GOLDENROD	AMERICAN SLOUGH GRASS
BLUE VERVAIN	
CULVER'S ROOT	
IRONWEED	
YELLOW CONEFLOWER	

RECOMMENDED SEEDING RATE: 35-40 LBS/ACRE

SEED MIX AVAILABLE:
NATIVESCAPE, LLC
PO BOX 122
MANCHESTER, MI 48158
T 517.456.9696

LEGEND

- SOD LAWN ON 3" TOPSOIL
- HYDROSEED AND MULCH ON 3" TOPSOIL
- DETENTION BASIN FLOOR MIX
- SEDGE BANK SEED MIX

GENERAL SEED NOTE:

ALL LAWN AREAS DESIGNATED TO BE SEEDED, SHALL BE HYDRO-SEEDED WITH SPECIFIED BLENDS, AND STABILIZED WITH WOOD CELLULOSE FIBER MULCH (2,000 LBS PER ACRE) . IN AREAS SUBJECT TO EROSION, SEEDED LAWN SHALL BE FURTHER STABILIZED WHERE NECESSARY WITH BIODEGRADABLE EROSION BLANKET AND STAKED UNTIL ESTABLISHED. ALL SEED SHALL BE APPLIED OVER A MINIMUM 3" PREPARED TOPSOIL, AND SHALL BE KEPT MOIST AND WATERED DAILY UNTIL ESTABLISHED.
SEEDING INSTALLATION SHALL OCCUR ONLY:
SPRING: APRIL 1 TO JUNE1
FALL: AUGUST 15 TO OCTOBER 15

GENERAL SOD NOTE:

ALL LAWN AREAS DESIGNATED TO BE SODDED, SHALL BE SODDED WITH A BLENDED DURABLE BLUEGRASS SOD, TYPICALLY GROWN IN THE REGION. ALL TURF SHALL BE PLACED ON A MINIMUM 3" PREPARED TOPSOIL, AND WATERED DAILY UNTIL ESTABLISHMENT. IN AREAS SUBJECT TO EROSION, SODDED LAWN SHALL BE STABILIZED WHERE NECESSARY, AND LAID PERPENDICULAR TO SLOPES
SOD INSTALLATION SHALL OCCUR ONLY:
SPRING: APRIL 1 TO JUNE1
FALL: AUGUST 15 TO OCTOBER 15

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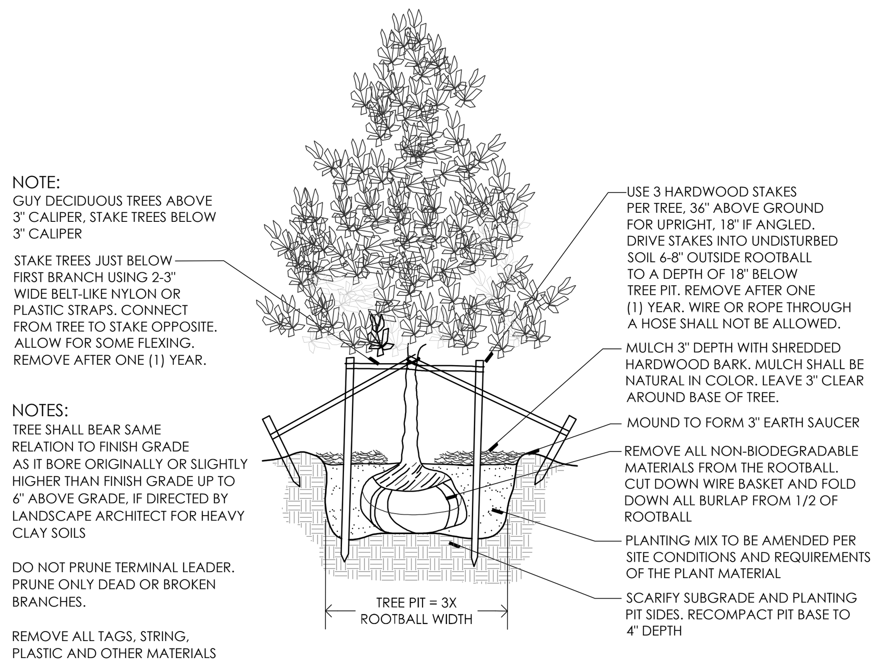
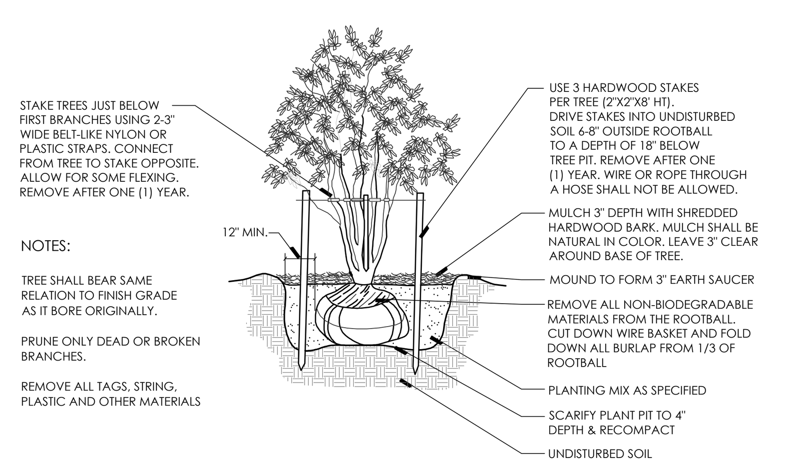


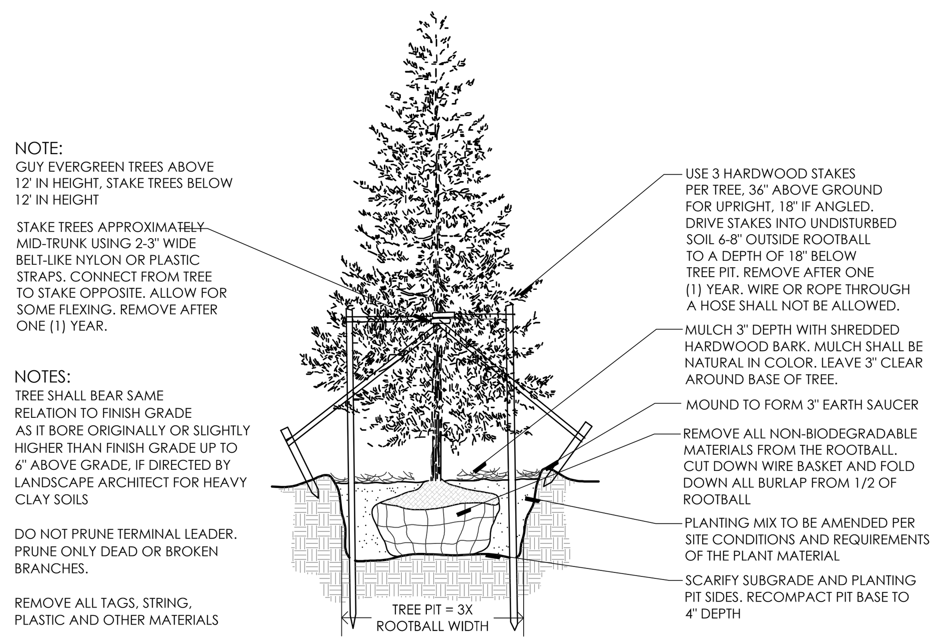
DECIDUOUS TREE PLANTING DETAIL

NTS



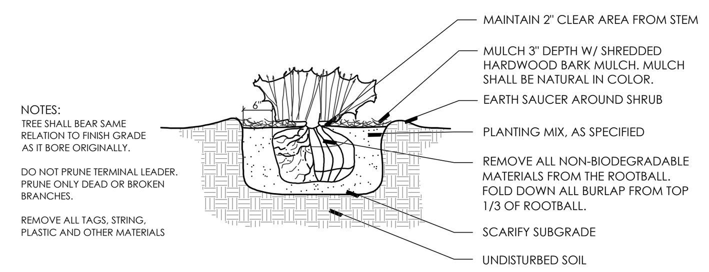
MULTI-STEM TREE PLANTING DETAIL

NTS



EVERGREEN TREE PLANTING DETAIL

NTS



HEDGE PLANTING DETAIL

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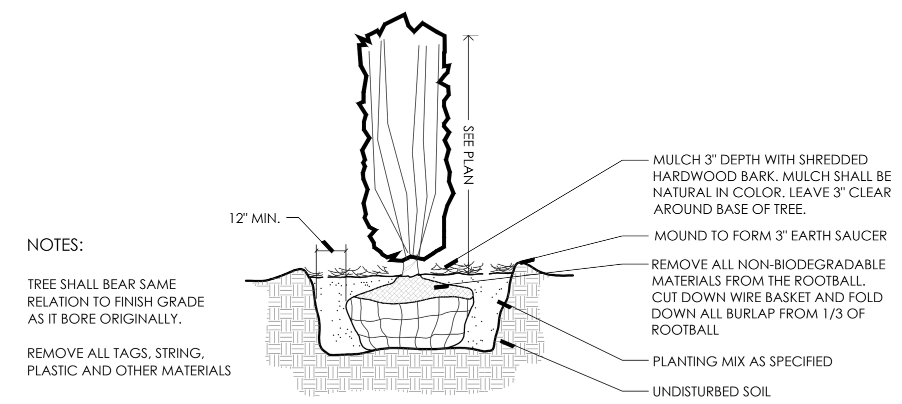
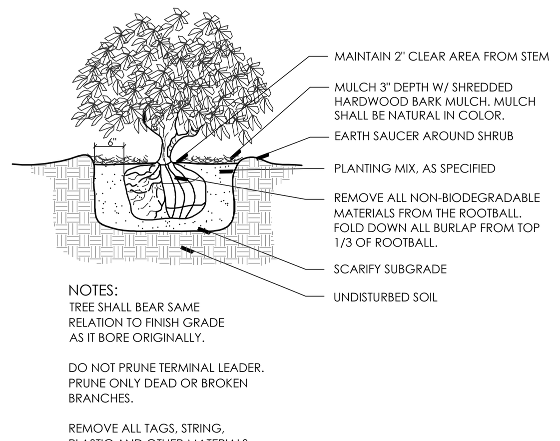


UPRIGHT EVERGREEN SHRUB PLANTING DETAIL

NTS



SHRUB PLANTING DETAIL

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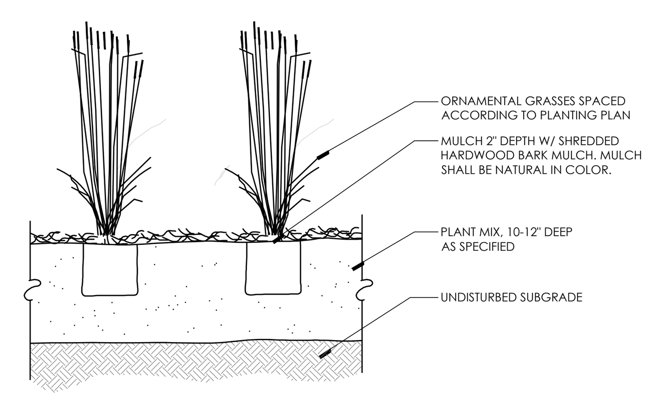
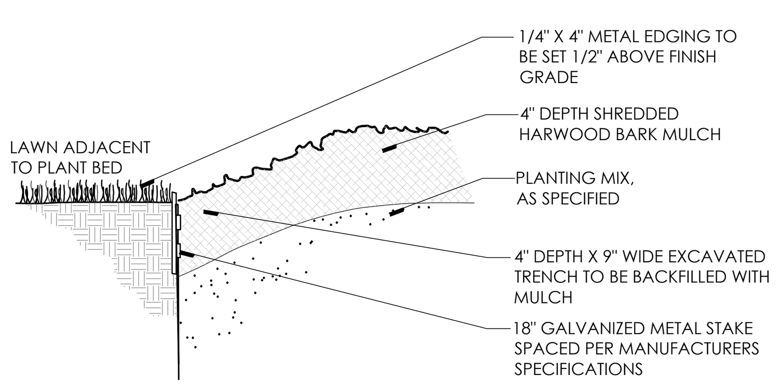


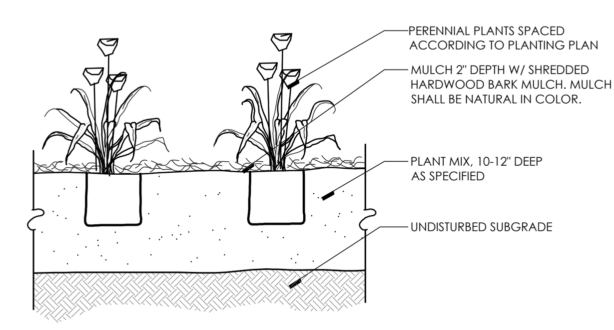
ORNAMENTAL GRASS PLANTING DETAIL

NTS



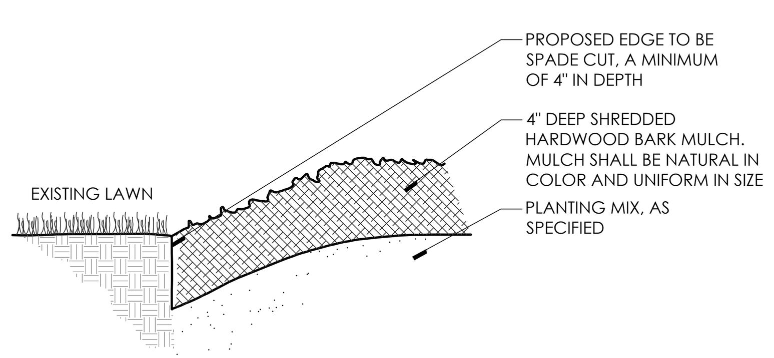
METAL EDGING DETAIL

NTS



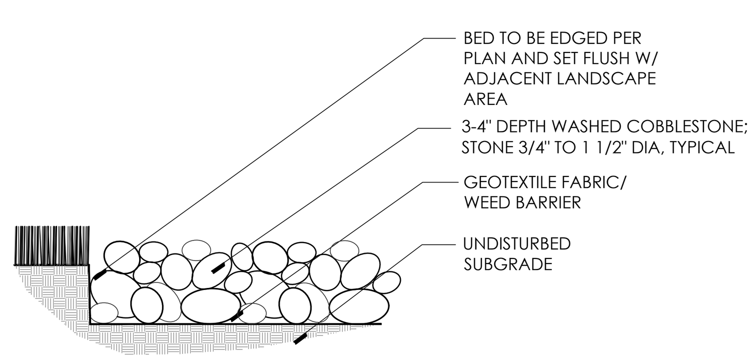
PERENNIAL PLANTING DETAIL

NTS



SPADE CUT EDGE DETAIL

NTS



COBBLESTONE MULCH DETAIL

NTS

PLANTING NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY, EASEMENTS, PROPERTY LINES AND LIMITS OF WORK, ETC. PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL PERTINENT UTILITY COMPANIES 72 HOURS IN ADVANCE OF ANY DIGGING TO MAKE HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
3. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. ANY DISCREPANCIES BETWEEN DIMENSIONED LAYOUT AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT. FAILURE TO MAKE SUCH DISCREPANCIES KNOWN WILL RESULT IN CONTRACTOR'S RESPONSIBILITY AND LIABILITY FOR ANY CHANGES AND ASSOCIATED COST.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH CONSTRUCTION INSTALLATION OPERATIONS.
6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE SURFACE DRAINAGE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, AND OR OWNER'S REPRESENTATIVE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
8. SEE SPECIFICATIONS, PLANT LIST AND PLANTING DETAILS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.
9. ALL TREES TO HAVE CLAY LOAM OR CLAY BALLS - TREES WITH SAND BALLS SHALL NOT BE ACCEPTED.
10. ALL TREES TO BE APPROVED BY OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE. ANY TREES DELIVERED TO THE SITE NOT PREVIOUSLY APPROVED MAY BE REJECTED AND ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
11. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
12. THE CONTRACTOR TO VERIFY PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL.
13. THE CONTRACTOR SHALL PLACE 3" DEPTH OF SHREDDED BARK MULCH IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED.

DEMOLITION NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SURVEY INFORMATION INCLUDING THE UTILITY SYSTEMS BEFORE ANY DEMOLITION OR CONSTRUCTION WORK OCCURS. ANY DISCREPANCIES WITH THE SURVEY INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
3. ALL EXISTING IMPROVEMENTS, MATERIALS AND PLANT MATERIAL TO REMAIN WITHIN THE NEW CONSTRUCTION AREA SHALL BE PROPERLY AND ADEQUATELY PROTECTED FROM DAMAGE DURING THE DEMOLITION OPERATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE TO THE ORIGINAL CONDITION ANY OF THESE EXISTING ITEMS THAT ARE DAMAGED OR DISTURBED IN ANY WAY.
4. ALL MATERIALS TO BE REUSED OR SALVAGED SHALL BE STORED IN AN AREA DESIGNATED BY THE CITY ENGINEER FOR THAT PURPOSE. ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE CITY ENGINEER.
5. STREETS, SIDEWALKS AND ADJACENT PROPERTIES SHALL BE PROTECTED THROUGHOUT THE WORK AS REQUIRED BY LOCAL CODES AND REGULATIONS AND APPROVED BY THE OWNER.
6. ALL MATERIAL SPECIFIED TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE PER LOCAL CODES AND REGULATIONS. CONTRACTOR SHALL COORDINATE METHOD OF DISPOSAL WITH CITY ENGINEER PRIOR TO COMMENCEMENT OF WORK.
7. MATERIALS TO BE REUSED OR SALVAGED SHALL BE STORED IN AN AREA DESIGNATED BY THE OWNERS REPRESENTATIVE FOR THAT PURPOSE. ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER.
8. DURING DEMOLITION OPERATIONS EVERY EFFORT SHALL BE MADE TO CONTROL DUST, PER CITY REQUIREMENTS.
9. TREES AND SHRUBS TO BE REMOVED WITHIN THE LIMITS OF WORK SHALL BE CLEARLY IDENTIFIED WITH BRIGHTLY COLORED RIBBON.
10. GRUBBING SHALL INCLUDE ALL WEEDS, SHRUBS, STUMPS AND ROOT SYSTEMS OF REMOVED PLANT MATERIAL, IRRIGATION PIPING AND ANY OTHER IRRIGATION MATERIALS WITHIN THE LIMITS OF DEMOLITION. GRUBBING SHALL BE TO THE DEPTHS BELOW PROPOSED IMPROVEMENTS INDICATED AS FOLLOWS: CONCRETE PAVING AND WALKWAYS-TOTAL DEPTH OF PAVING AND SUB-BASE; ASPHALT PAVING-TOTAL DEPTH OF PAVING AND SUB-BASE; LAWN AND OTHER PLANTINGS AREAS-REMOVE DEPTH REQUIRED OF STUMPS AND ROOTS OVER TWO (2) INCHES IN DIAMETER AND TURF.
11. PROTECT EXISTING TREES TO REMAIN PER TYPICAL TREE PROTECTION DETAIL.
12. STOCKPILED TOPSOIL SHALL BE STORED ON SITE AND REMAIN PROTECTED FROM CONTAMINATION PRIOR TO REDISTRIBUTION.
13. SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED TO INSTALL NEW SITE IMPROVEMENTS AND ADJUST GRADES WITHIN CITY STREETS. ALL WORK WITHIN CITY RIGHT OF WAY SHALL MEET CITY STANDARDS AND SPECIFICATIONS.
14. ARRANGE FOR APPLICABLE UTILITY COMPANY TO RELOCATE EXISTING CABLES, WIRES, PHONE LINES, ETC. ALONG WITH EDISON POWER LINES AS REQUIRED.
15. CONTRACTOR SHALL SECURE AND PAY FOR ALL APPLICABLE PERMITS AND FEES NECESSARY FOR THE COMPLETE CONSTRUCTION OF THE PROJECT.

CONSTRUCTION NOTES:

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SURVEY INFORMATION INCLUDING THE UTILITY SYSTEMS BEFORE ANY DEMOLITION OR CONSTRUCTION WORK OCCURS. ANY DISCREPANCIES WITH THE SURVEY INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
3. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND / OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO LACK OF SUCH NOTIFICATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
6. SEE SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS, MATERIALS, AND EXECUTION.
7. ALL PROPERTY LINES AND LOT LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.
8. CONTRACTOR SHALL SUBMIT ALL SAMPLES PER SPECIFICATIONS. ALL SAMPLES SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
9. DIMENSIONAL FLEXIBILITY SHALL BE WITHIN PLANT BEDS ONLY.
10. CONTRACTOR SHALL COORDINATE ALL SITE LAYOUT WITH THE LANDSCAPE ARCHITECT AND REPORT ANY DIMENSIONAL DISCREPANCIES PRIOR TO CONSTRUCTION.
11. HANDICAPPED RAMPS SHALL MEET ALL CURRENT BARRIER FREE DESIGN CODES.

PLANT SCHEDULE

KEY	QTY	BOTANICAL/COMMON NAME	SIZE	SPACING	ROOT	COMMENT
TREES						
AR	107	Acer rubrum 'Frank Jr.' Redpointe Maple	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
BN	23	Betula nigra River Birch	12' HT	SEE PLAN	B&B	CLUMP FORM
CC	42	Cercis canadensis Eastern Redbud	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
CG	22	Crataegus crus-galli 'Inermis' Thornless Cockspur Hawthorn	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
GB	29	Ginkgo biloba 'Magyar' Common Name	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
GT	75	Gleditsia triacanthos 'Imperial' Imperial Honey Locust	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
GD	49	Gymnocladus dioica 'Espresso' Espresso Kentucky Coffee Tree	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
LT	51	Liriodendron tulipifera 'Emerald City' Emerald City Tulip Tree	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
MG	29	Metasequoia glyptostroboides Dawn Redwood	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
NS	55	Nyssa sylvatica Black Tupelo	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
OV	26	Ostrya virginiana American Hophornbeam	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
PG	19	Picea glauca 'Densata' Black Hills Spruce	8' HT	SEE PLAN	B&B	FULL, MATCHED HEADS
PO	55	Picea omorika Serbia Spruce	8' HT	SEE PLAN	B&B	FULL, MATCHED HEADS
PP	44	Picea pungens Colorado Green Spruce	8' HT	SEE PLAN	B&B	FULL, MATCHED HEADS
PR	12	Prunus sargentii 'Pink Flair' Pink Flair Cherry	2" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
QB	14	Quercus bicolor Swamp White Oak	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
TA	79	Tilia americana 'McKSentry' American Sentry Linden	2.5" CAL	SEE PLAN	B&B	FULL, MATCHED HEADS
SHRUBS						
AM	86	Aronia melanocarpa Black Chokeberry	30" HT	3' OC	B&B	
BX	18	Buxus x 'Winter Gem' Winter Gem Boxwood	30" HT	30" OC	B&B	
CS	134	Cornus sericea 'Isanti' Redosier Dogwood	30" HT	5' OC	B&B	
DL	110	Diervilla 'Kodiak Orange' Kodiak Orange Diervilla	30" HT	4' OC	B&B	
FX	41	Forsythia x i. 'New Hampshire Gold' New Hampshire Gold Forsythia	30" HT	5' OC	B&B	
JS	32	Juniperus scopulorum 'Skyrocket Skyrocket Juniper	5' HT	2' OC	B&B	
MD	24	Microbiota decussata 'Celtic Pride' Celtic Pride Siberian Cypress	3 GAL	3' OC	CONT	
MP	119	Myrica pennsylvanica Bayberry	36" HT	8' OC	B&B	
SP	75	Salix purpurea 'Nana' Dwarf Arctic Willow	30" HT	5' OC	B&B	
TO	10	Thuja occidentalis 'Nigra' Dark Green Arborvitae	5' HT	5' OC	B&B	
VC	43	Viburnum carlesii Koreanspice Viburnum	36" HT	5' OC	B&B	
GROUNDCOVERS/PERENNIALS						
CA	14	Calamagrostis a. 'Karl Foerster' Karl Foerster Feather Reed Grass	3 GAL	30" OC	CONT	
HP	42	Hemerocallis 'Purple D'Oro' Purple D'Oro Daylily	2 GAL	24" OC	CONT	
HR	39	Hosta 'Risky Business' Risky Business Hosta	2 GAL	30" OC	CONT	

NF ENGINEERS
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LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Landscape Notes
and Details

811
Know what's below
Call before you dig.

DATE	ISSUED/REVISED
09-24-21	TOPO SURVEY ISSUED
2021-11-11	ISSUED FOR SITE PLAN REVIEW
2021-11-24	ISSUED FOR BIDDING
2022-01-07	REVISED PER SITE PLAN REVIEW
2022-01-07	ISSUED FOR ENGINEERING REVIEW

DRAWN BY:
G. Ostrowski

DESIGNED BY:
G. Ostrowski

APPROVED BY:
G. Ostrowski

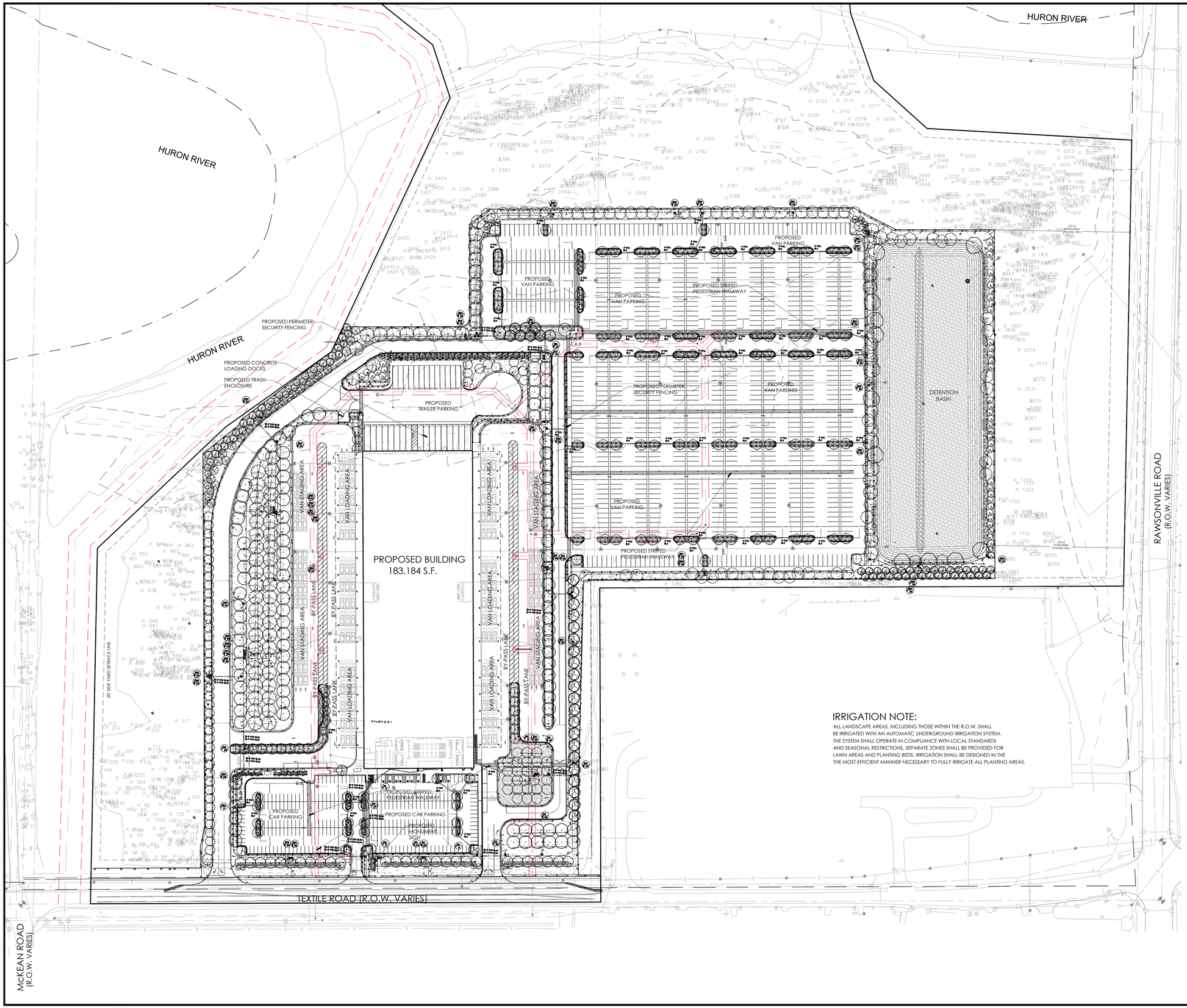
DATE:
September 24, 2021

SCALE: VARIES

100 50 0 50 100 150

NFE JOB NO.
M278-01

SHEET NO.
L2.9



LOCATION MAP
N.T.S.

IRRIGATION NOTE:

ALL LANDSCAPE AREAS, INCLUDING THOSE WITHIN THE R.O.W. SHALL BE IRRIGATED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. THE SYSTEM SHALL OPERATE IN COMPLIANCE WITH LOCAL STANDARDS AND SEASONAL RESTRICTIONS. SEPARATE ZONES SHALL BE PROVIDED FOR LAWN AREAS AND PLANTING BEDS. IRRIGATION SHALL BE DESIGNED IN THE THE MOST EFFICIENT MANNER NECESSARY TO FULLY IRRIGATE ALL PLANTING AREAS.

LIQUID ASSETS LLC
IRRIGATION DESIGN & WATER MANAGEMENT

4843 Kittery NW
Comstock Park, Michigan 49321
Tel. (248) 789-0330
email: abarnes@lqdassets.org
www.lqdassets.org

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SHEET
Overall Irrigation Plan

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DRAWN BY:
AJB

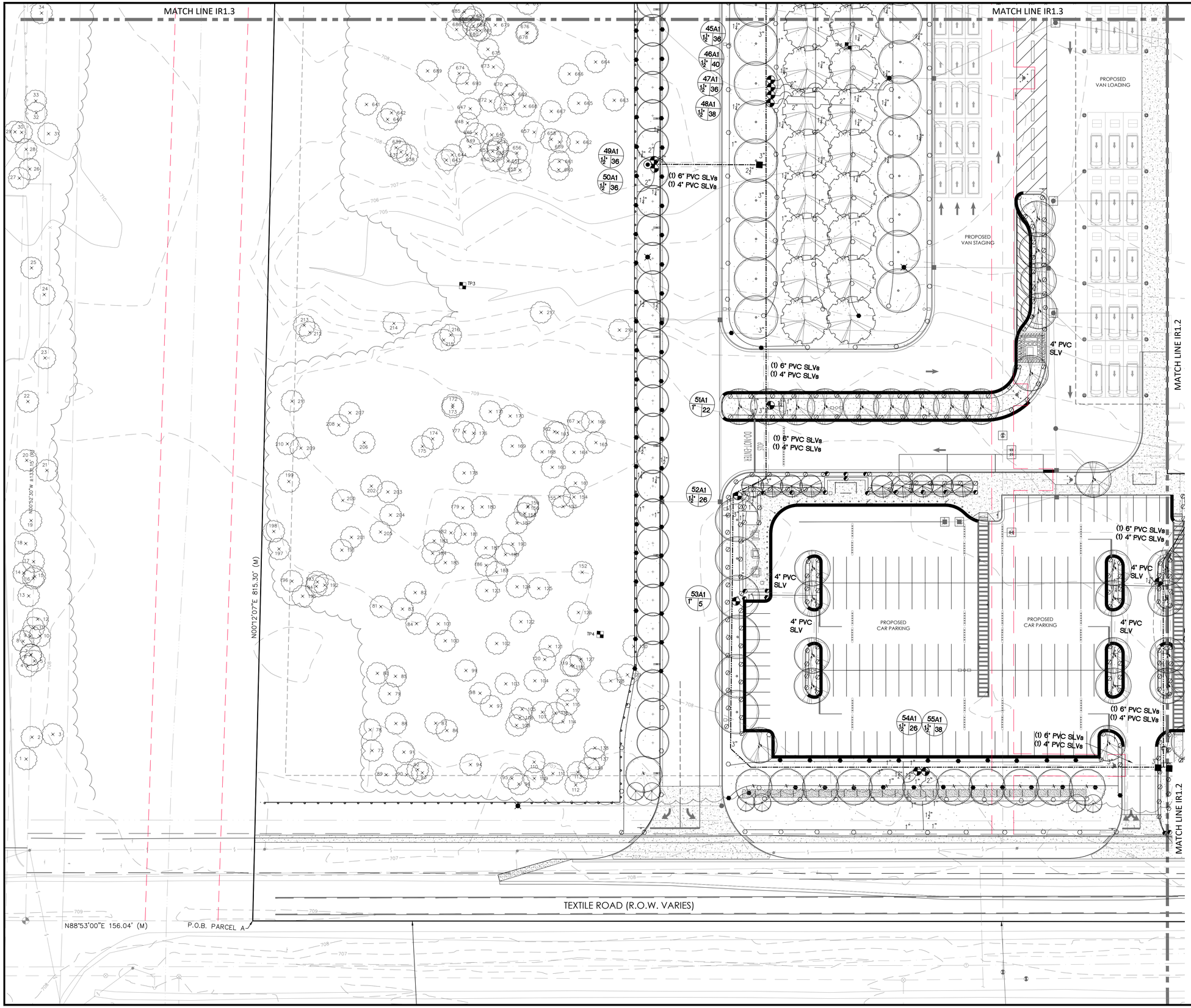
DESIGNED BY:
AJB

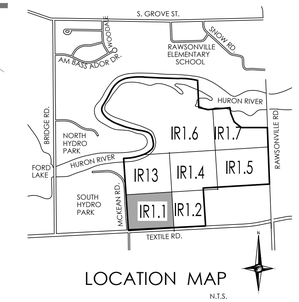
APPROVED BY:
G. Ostrowski

DATE:
September 24, 2021

SCALE: 1" = 100'
100 50 0 50 100 150

NFE JOB NO. **M278-01**
SHEET NO. **IR1.0**





LOCATION MAP

N.T.S.

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SHEET
Detailed Irrigation Plan

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DRAWN BY: AJB
DESIGNED BY: AJB
APPROVED BY: G. Ostrowski
DATE: September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. IR1.1

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email: abarnes@lqdassets.org
www.lqdassets.org

MATCH LINE IR1.4

MATCH LINE IR1.1

PROPOSED BUILDING
183,184SF.
F.F. 703.00

Locate and connect to 3" flanged water supply pipe brought to exterior by mechanical trades. See mechanical drawings for exact location and depth below grade.

Coordinate irrigation controller final location with owner's representative inside mechanical room prior to installation. Locate and directly wire to dedicated 120v circuit in J-Box provided by others.

See electrical plan for exact location inside mechanical room. Location shown is approximate.

PROPOSED CAR PARKING

PROPOSED MONUMENT SIGN

TEXTILE ROAD (R.O.W. VARIES)

4" PVC SLV

(1) 6" PVC SLVs
(1) 4" PVC SLVs

DO-NOT-ENTER

ONLY

S01°07'00"E
720.00' (M)

LOCATION MAP
N.T.S.

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LAND SURVEYORS
LAND PLANNERS

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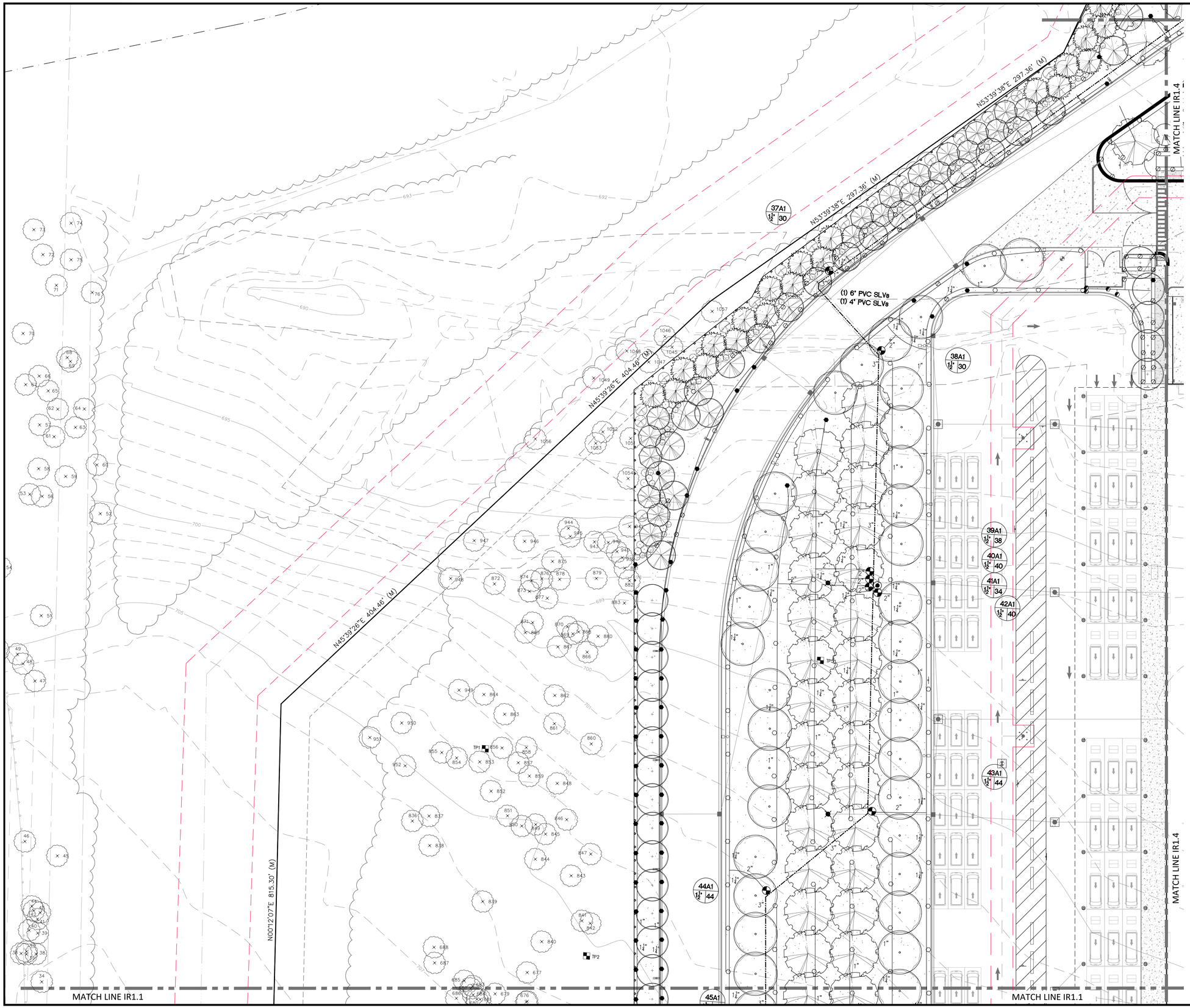
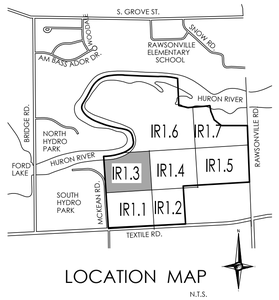
DRAWN BY: AJB
DESIGNED BY: AJBi
APPROVED BY: G. Ostrowski
DATE: September 24, 2021
SCALE: 1" = 30'

NFE JOB NO. M278-01
SHEET NO. IR1.2





LOCATION MAP

N.T.S.

N

W E

S

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SEAL

STATE OF MICHIGAN
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No. 47034
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2021-11-24	ISSUED FOR BIDDING
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LIQUID ASSETS LLC
IRRIGATION DESIGN & WATER MANAGEMENT

4843 Kittery NW
Comstock Park, Michigan 49321
Tel. (248) 789-0330
email: abarnes@lqdassets.org
www.lqdassets.org

DRAWN BY:
AJB

DESIGNED BY:
AJB

APPROVED BY:
G. Ostrowski

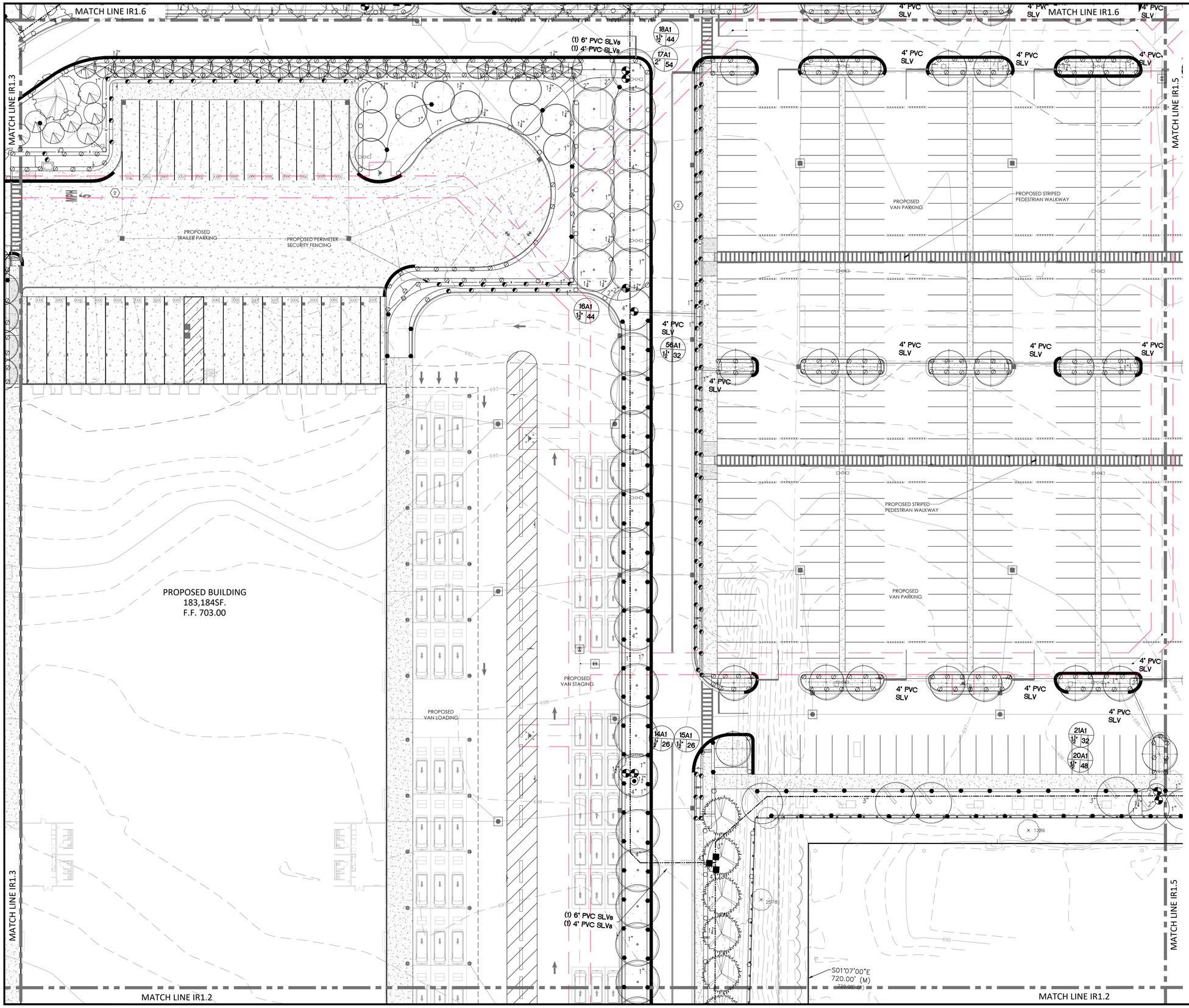
DATE:
September 24, 2021

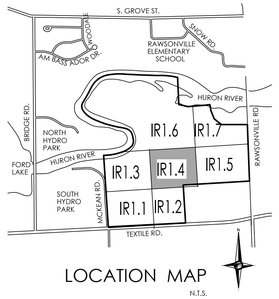
SCALE: 1" = 30'

30 15 0 15 30 45

NFE JOB NO. **M278-01**

SHEET NO. **IR1.3**





LOCATION MAP
N.T.S.

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CIVIL ENGINEERS
LAND SURVEYORS
LAND PLANNERS

NOWAK & FRAUS ENGINEERS
46777 WOODWARD AVE.
PONTIAC, MI 48342-5032
TEL. (248) 332-7931
FAX. (248) 332-8257
WWW.NOWAKFRAUS.COM

SEAL

PROJECT
Project Yoga

CLIENT
Seefried Industrial Properties
8745 West Higgins
Suite 220
Chicago, IL 60631

Contact:
Mr. Doug Houser
T: (630) 251-5984

PROJECT LOCATION
Part of the Section 24
T.3 S., R.7 E.,
Township of Ypsilanti,
Washtenaw County, Michigan

SHEET
Detailed Irrigation Plan

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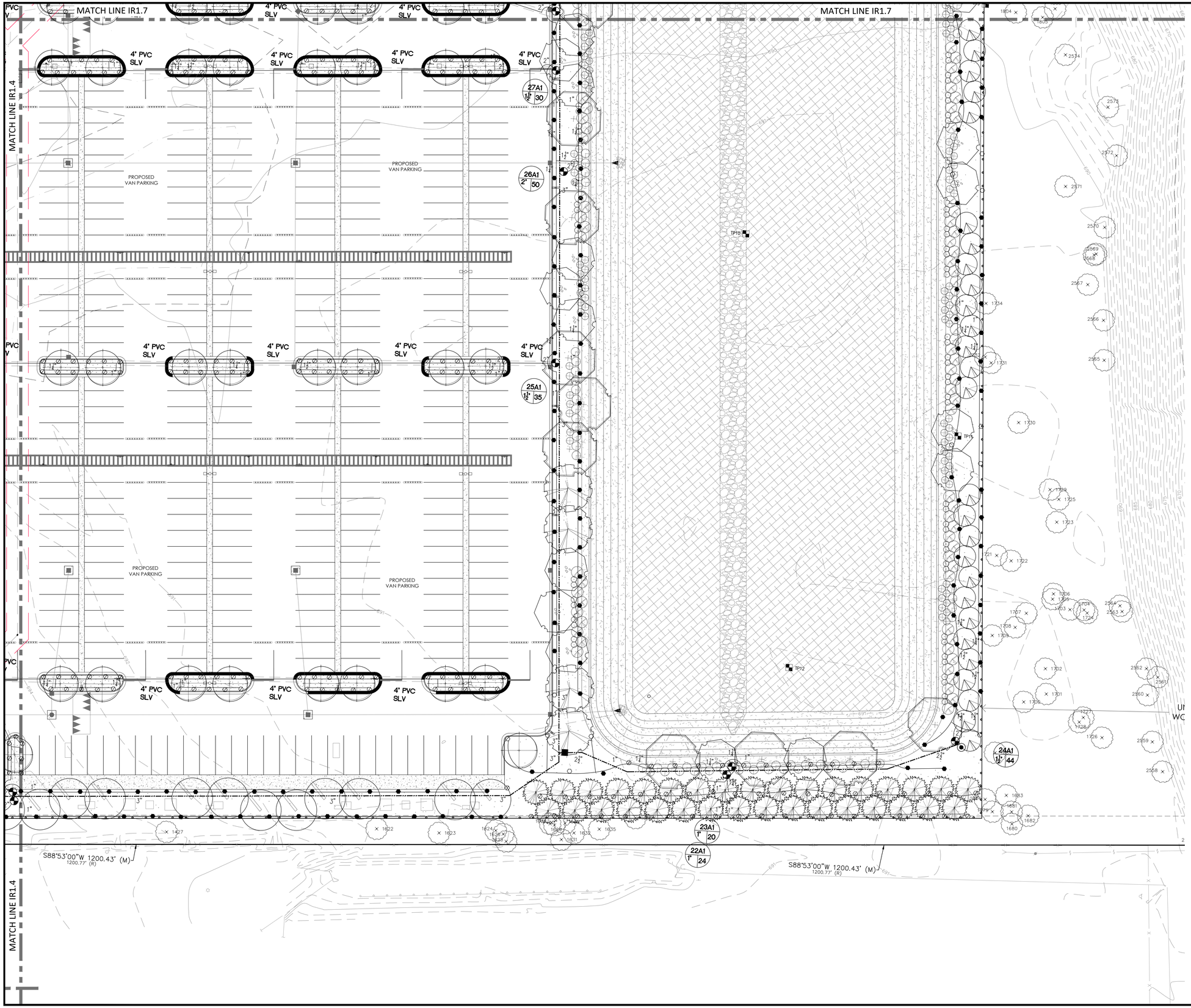
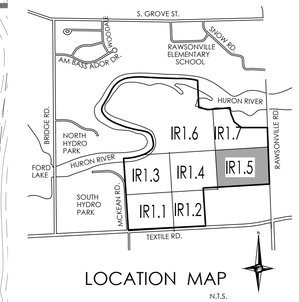
SHEET NO. IR1.4





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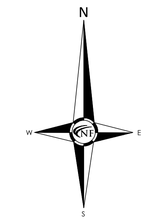

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NFE JOB NO. M278-01
SHEET NO. IR1.5

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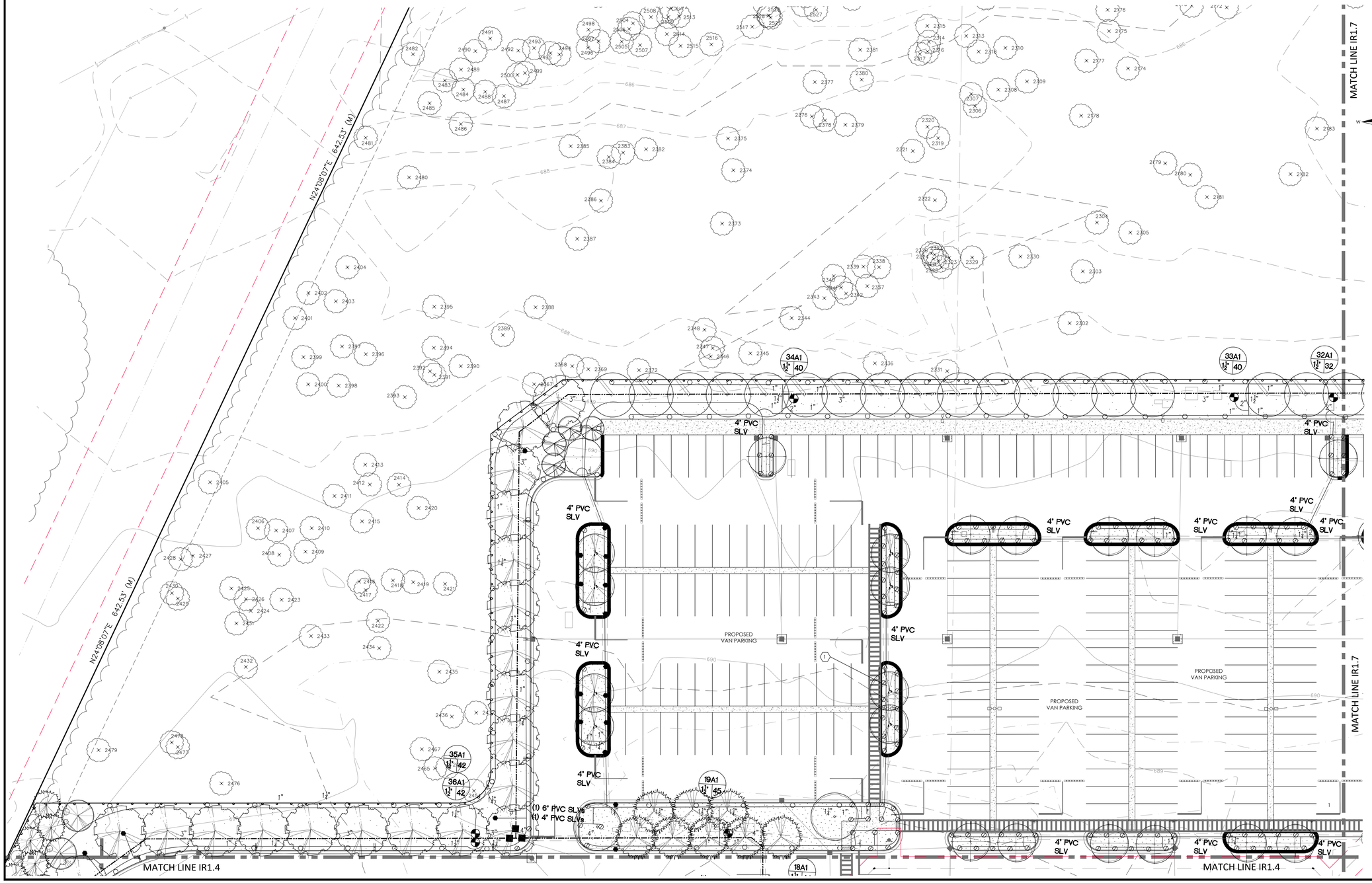

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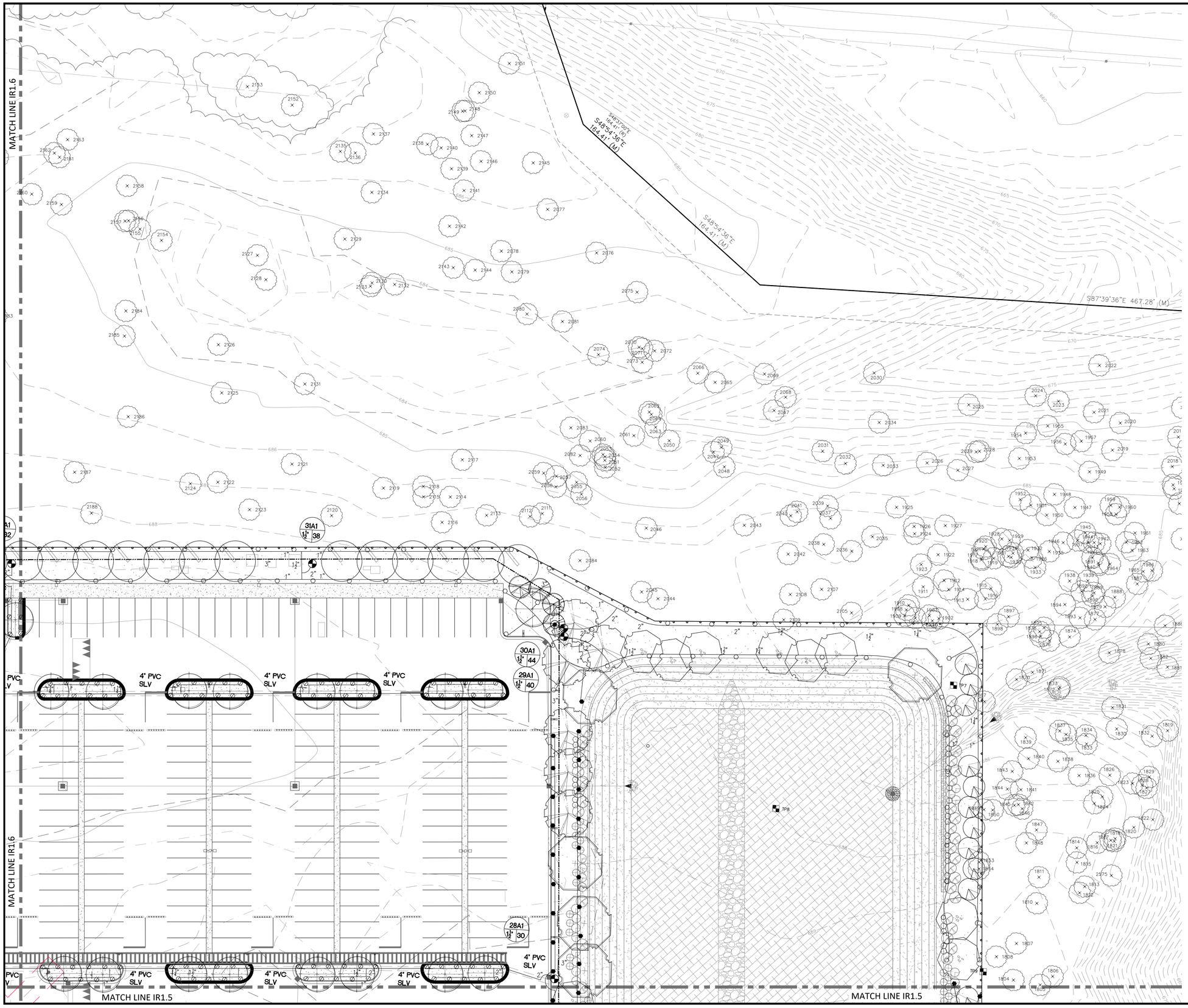
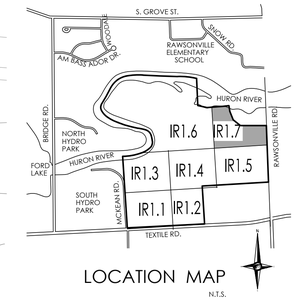
NFE JOB NO. M278-01
SHEET NO. IR1.6





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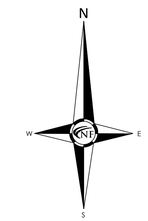

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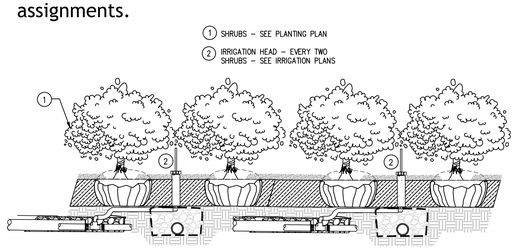
SHEET NO. IR1.7

IRRIGATION CONTRACTOR TO ENABLE FLOW MANAGEMENT AT THE AC2 CONTROLLER FOR ENTIRE SITE BY CREATING "FLOW ZONES".

A. Flow management shall allow the controller to schedule simultaneous stations on within each flow zone, based on their flow characteristics, to reach a user-programmable rate of flow for the duration of the water window.
1. Station flows may be "learned" via flow sensor or entered manually by the user.
2. Individual stations may be prioritized to ensure they water earliest in flow management scenarios.
3. Flow zone assignments shall be by individual station, so that multiple programs may operate their stations in a flow-managed state within a given flow zone.

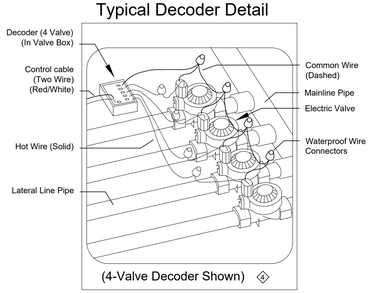
B. Flow monitoring uses a flow sensor to monitor actual flow and intervene when high- or low-flow conditions are detected.
1. Controller shall allow the station flows to be learned and entered automatically.
2. The station flow values shall be adjustable for high and low flow alarm limits.
3. The station flow alarm settings shall have an adjustable delay factor to allow flow to stabilize.
4. Each flow zone shall have an absolute high-flow limit, independent of the station-level flow monitoring.
5. Each flow zone shall allow unscheduled flow allowances to permit manual watering within user-programmable limits.
6. Each flow zone shall include adjustable recovery settings for high-level flow alarms, allowing irrigation to be automatically allowed after an elapsed period of time, or manually only, requiring a user to visit and clear the alarm.

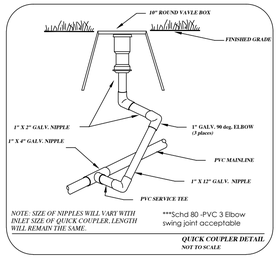
C. Flow operations shall also include the ability to assign a separate flow sensor and master valve to the mainline level, above the independent flow zones, to monitor and protect long runs of mainline pipe
1. Flow monitoring at the mainline level shall allow faster reaction to high or unexpected flow conditions, without the delay of station-level diagnostics.
2. Mainline protection may have its own monthly water budget, high-flow, and unscheduled flow limits separately from lower-level flow zone assignments.



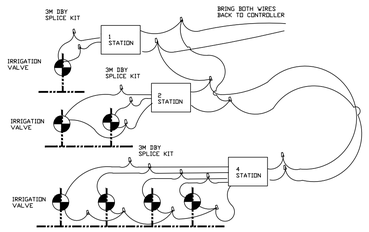
SHRUB BED IRRIGATION DETAIL

Typical Decoder Detail

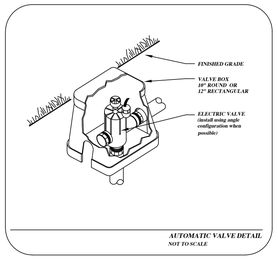




QUICK COUPLER DETAIL
NOT TO SCALE



SAMPLE DECODER WIRING DIAGRAM



AUTOMATIC VALVE DETAIL
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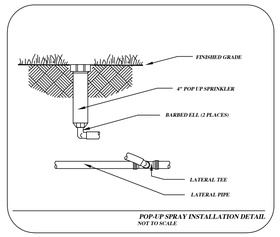

POP-UP SPRAY INSTALLATION DETAIL
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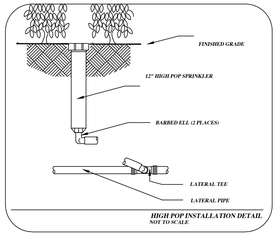


HIGH POP INSTALLATION DETAIL
NOT TO SCALE

***Irrigation Contractor to offer the following Central Control System and all pertaining components to enable the Central Control System - CENTRALUS

1. CELLULAR CONNECTION - A2C-LTE with one year subscription
2. CETRALUS SOFTWARE - CLOUD BASED
3. PROGRAM USAGE TRAINING FOR OWNER

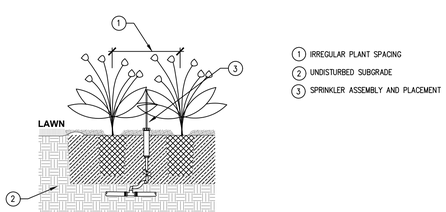
***Irrigation Contractor to ground all electrical equipment installed in relation to the irrigation control system. Grounding components will include, but are not limited to, controllers and decoder modules.

Grounding for controllers will include at the very minimum, a copper clad steel ground rod, a copper ground plate and 100 pounds of Powerset earth contact material.

- Ground rod min. dia. $\frac{5}{8}$" and min. length of 10 feet driven vertically into the ground
- Copper grounding plate to be min. 4" x 96" x .0625" connected with 25' -6AWG solid bare copper wire welded to the plate at a min. depth 30" and 15'-20' from grounding rod set in 2- 50lbs of Powerset earth contact surrounding the plate.
- install all grounding components in straight lines. Do not make sharp turns.

Grounding of Decoders

- Min copper plate and 50 LBS of Power set earth contract material
- 10' min length using 10 AWG solid copper wire connected to a decoders gourd wire
- provide a grounding point every 12th decoder or 1000 feet.
- Provide a grounding point at the end of every wire run.



PERENNIAL / GROUNDCOVER IRRIGATION DETAIL
NOT TO SCALE

IRRIGATION LEGEND:

Hunter

FIXED SPRAY POP-UP (12") PROS-12-CV
10 Series 12 Series 15 Series Strip Series

FIXED SPRAY POP-UP (12") w/ specialty nozzle PROS-12-CV
2' radius nozzle 4' radius nozzle

FIXED SPRAY POP-UP (4") w/ MPR nozzle PROS-04 PRS40-CV
MP1000 MP2000 MP3000 MP5530/MPLC(RC)15 *use MPCORNER as req.

ELECTRIC MASTER VALVE/ FLOW SENSOR - 4"
Netafim - LHM4FG0566-MEL 4-inch FLG Manual Electric Hydrometer,

ELECTRIC VALVE w/ ICD Decoders ICV- AS ADJ Series

QUICK COUPLER VALVE HQ 44 RC

ELECTRIC CONTROLLER ACC2DM

BACKFLOW PREVENTION DEVICE BY OTHERS

ISOLATION GATE VALVE (LINE SIZE)

RAIN SENSOR DEVICE (Install at all controller locations) SOLAR SYNC (wireless)

POINT OF CONNECTION TO WATER SOURCE See note on sheet

PVC MAINLINE, SDR 21, BE under 3"-GJ over 3", Size as shown

POLYETHYLENE PIPE, 100#, NSF APPROVED, Size as shown

PVC SLEEVES - SDR 21 - Size as shown

VALVE DESIGNATION:
Controller and Station Number
Valve Size
Gallons Per Minute

WATER REQUIREMENTS: 100 GPM @ 84 PSI
(CONTRACTOR TO VERIFY PSI AVAILABLE ON SITE PRIOR TO SYSTEM INSTALLTION)

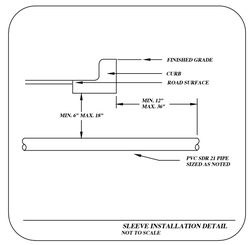
THRUST BLOCKING IS REQUIRED AS SHOWN FOR ALL MAINLINE FITTINGS AND DIRECTIONAL TURNS. CROSSES, CAPPED TEES AND 90 DEGREE TURNS ARE NOT ALLOWED

18" DEPTH IS MINIMUM FOR PVC MAINLINE.

12" DEPTH IS MINIMUM FOR LATERAL ZONE LINE.

PIPE SIZE CHART
0–12 GPM = 1" DIAMETER POLYETHYLENE PIPE
12–24 GPM = 1 $\frac{1}{4}$" DIAMETER POLYETHYLENE PIPE
24–30 GPM = 1 1/2" DIAMETER POLYETHYLENE PIPE
30–60 GPM = 2" DIAMETER POLYETHYLENE PIPE

NOTES:
1. Refer to the specifications for installation details and descriptions, as well as, construction methods which will be accepted.
2. All work shall be in compliance with all local, state, and federal codes and ordinances.
3. All electrical connections shall be made using 3m DBY–6 splice kits.
4. All control wiring downstream of the controller shall be Hunter ID Wire jacketed twisted communication cable 12 awg UL approved for direct bury.
5. All polyethylene lateral pipe clamps shall be stainless steel worm gear type clamps. Lateral pipes 1–1/2" or larger shall be double clamped.
6. Pipe routing is schematic. All heads are to be field adjusted to within 2' to take into consideration any obstruction. Final head placements are subject to the landscape architects approval.
7. All sprinkler heads shall be mounted on 2 elbow poly swing joints as specified.
8. Contractor to verify final controller location with owner's authorized representative prior to installation.
9. All pipe not sized downstream of control valve is 1".
10. All sleeves shall be PVC SDR 21 (see specifications).
11. Irrigation contractor's point of connection to water source shall be as noted on this sheet.
12. Locate and connect to indicated water source.
13. 120v power to the controller locations should be provided others. Coordinate with owner's representative. Hardwire controller directly to nearest circuit panel. Place all wires in conduit per code.
14. Design pressure does not take into account seasonal supply fluctuations. Periods of drought may cause temporary pressure losses to the city water supply resulting in inadequate irrigation system performance. Irrigation design is based on normal weather conditions and typical municipal water supply abilities.
15. Irrigation contractor shall be responsible for determining and maintaining the irrigation schedule during the project construction and throughout the length of the warranty period.
16. The irrigation schedule shall deliver 1" of precipitation per week +/– natural rainfall quantities for turf grass.
17. Landscape material shall receive adjusted amounts of precipitation to maintain proper plant health.
18. Landscape and turf grass shall be irrigated separately.
19. Rotors and spray zones may not be combined to operate at the same time.
20. When specified, follow manufacturer's product recommendations concerning proper installation of water flow sensors. Allow proper straight pipe distances before and after flow sensors.



SLEEVE INSTALLATION DETAIL
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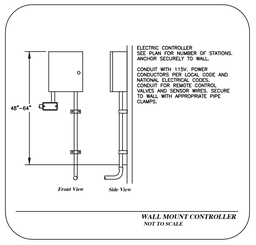
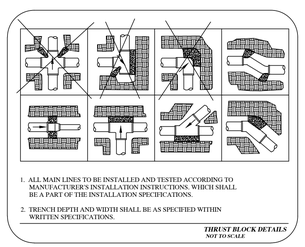


WALL-MOUNT CONTROLLER
NOT TO SCALE

***COMMUNICATION CABLE TO BE 12 AWG HUNTER IDWIRE. DO NOT LOOP WIRE RUNS BACK TO IRRIGATION CONTROLLER OR IN FIELD. DO NOT EXCEED A MAXIMUM RUN LENGTH OF 1500 FEET.



THRUST BLOCK DETAILS
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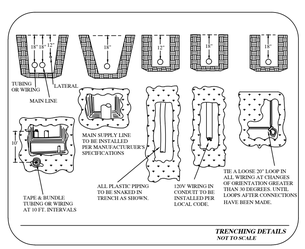

TRENCHING DETAILS
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DESIGNED BY: AJB
APPROVED BY: G. Ostrowski
DATE: September 24, 2021
SCALE: VARIES
100 50 0 50 100 150

NFE JOB NO. M278-01
SHEET NO. IR1.9

OVERALL FLOOR PLAN KEYNOTES

#	NOTE
A04	INTERIOR SURFACE MOUNTED BOLLARD, TYP. SEE 1/A5.01
A10	SHELVING, FURNISHED AND INSTALLED BY TENANT
A11	CONVEYOR SYSTEM, FURNISHED AND INSTALLED BY TENANT
A12	METAL STAIR CONVEYOR PASS OVER, FURNISHED AND INSTALLED BY TENANT
A16	DIAMOND CHAIN LINK FENCE ENCLOSURE FOR MODULE 2168, 8'-0" TALL GALVANIZED STEEL WITH 2" SQUARE MESH (9 GAUGE); PROVIDE LOCK ON SLIDING DOOR
A17	WATER COOLER, FURNISHED AND INSTALLED BY TENANT. SEE PLUMBING AND ELECTRICAL DRAWINGS
A18	DIAMOND CHAIN LINK FENCE ENCLOSURE, 8'-0" TALL GALVANIZED STEEL WITH 2" SQUARE MESH (9 GAUGE); PROVIDE CHAINLINK GATE
A19	DSP DESKS
A103	CONCRETE COLUMN BASE PROTECTION, PAINT SAFETY YELLOW. SEE DETAIL 4/A2.01
A107	STEEL PLATFORM AND STAIR WITH RAILING AND HANDRAIL, SEE SHEET A5.03
A125	9'-0" x 10'-0" KNOCKOUT PANEL. SEE STRUCTURAL

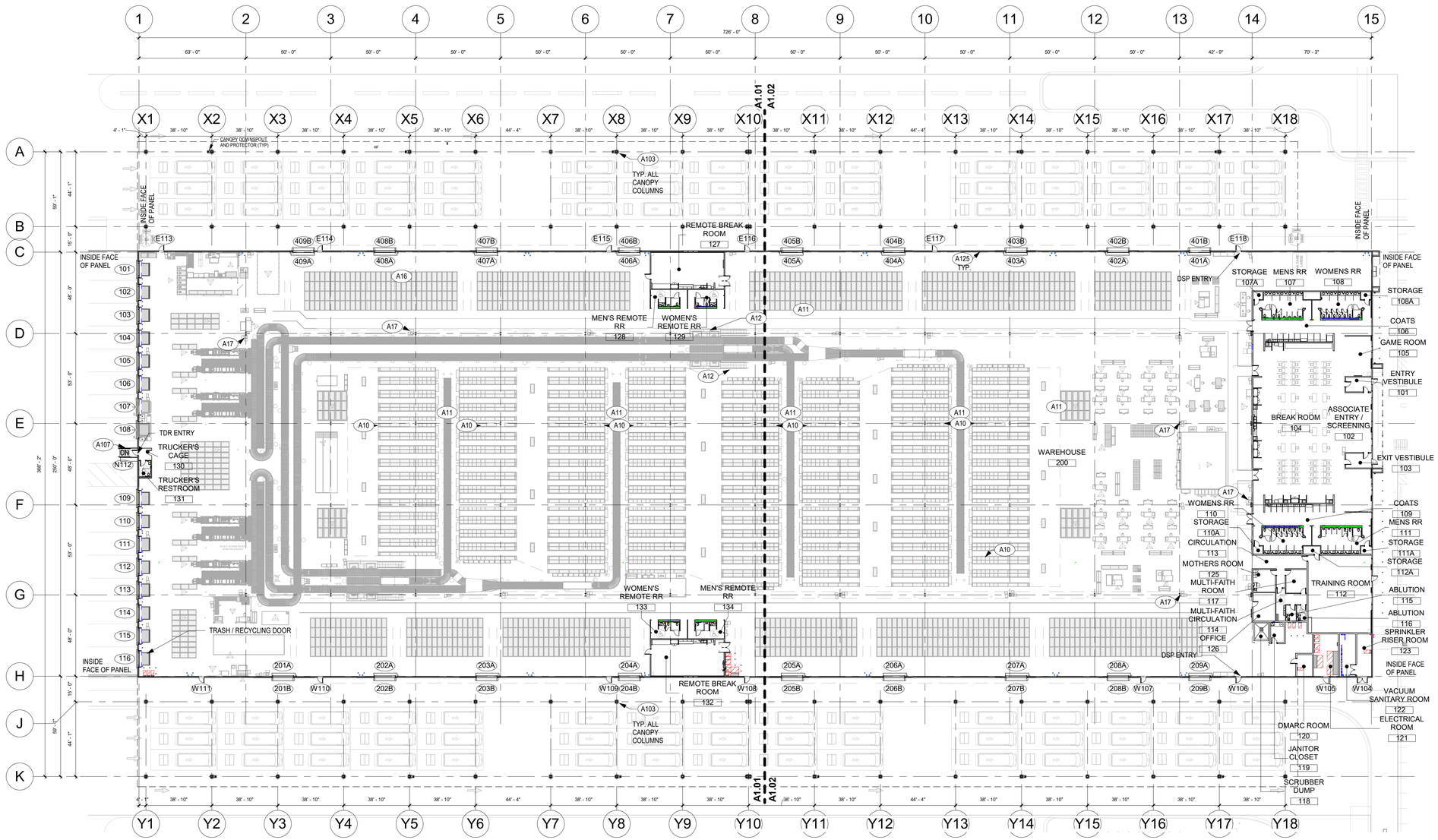
INTERIOR WALL GENERAL NOTES

1. CONSTRUCT ALL WALLS 6" MIN ABOVE CEILING UNLESS OTHERWISE NOTED. IF NOTED OTHERWISE, CARRY WALLS TIGHT TO DECK ABOVE AND EXTEND INTO DECK FLUTES AND WEBS OF STEEL MEMBERS.
2. PROVIDE DEFLECTION TRACK AT THE TO OF ALL INTERIOR NON-BEARING METAL STUD WALLS CAPABLE OF ACCOMODATING 3/4" ROOF/FLOOR DEFLECTION.
3. REFER TO CODE COMPLIANCE PLAN FOR RATED WALL LOCATIONS. FIRE RATED AND SMOKE RESISTANT ASSEMBLIES SHALL BE CONTINUOUS WITH OTHER PARTITIONS ABUTTING THEM.
4. PROVIDE FIRESTOPPING/SMOKE SEALANT AT ALL PENETRATIONS THROUGH FIRE RATED AND SMOKE RESISTANT ASSEMBLIES, CORRIDORS, AND FLOORS WITH OCCUPIABLE SPACES ABOVE AND BELOW.
5. PROVIDE ACOUSTICAL SEALANT AT ALL WALLS WITH ACOUSTICAL INSULATION.
6. PROVIDE 5/8" MOISTURE RESISTANT GYPSUM WALLBOARD AT ALL WALLS OF TOILET ROOMS, WALLS RECEIVING TILE, AND WALLS BEHIND AND ADJACENT TO SINKS.
7. REFER TO STRUCTURAL DRAWINGS FOR MASONRY REINFORCING AND GROUTING.
8. REFER TO STRUCTURAL FOR CEILING LID FRAMING AND STRUCTURAL STUD BEARING WALL LOCATIONS.
9. PROVIDE REQUIRED BLOCKING AT ALL WALL MOUNTED COMPONENTS.

GENERAL ARCHITECTURAL NOTES

1. DO NOT SCALE DRAWINGS.
2. FINISH FLOOR ELEVATION = 100'-0"
3. BEGINNING WORK INDICATES THAT THE CONTRACTOR HAS ACCEPTED AND VERIFIED EXISTING CONDITIONS.
4. REFER TO CODE COMPLIANCE DRAWING(S) FOR LOCATIONS OF RATED ASSEMBLIES AND CODE SUMMARY.
5. ABBREVIATIONS, TYPICAL MOUNTING DIMENSIONS, AND ANNOTATION SYMBOLOGY ARE SHOWN ON THE GENERAL INFORMATION AND TITLE DRAWING.
6. WALL DIMENSIONS ARE TO FACE OF MASONRY, FACE OF CONCRETE, FACE OF STUDS, COLUMN CENTERLINE AS SHOWN OR EXISTING CONSTRUCTION UNLESS NOTED OTHERWISE.
7. ALL DIMENSIONS ARE PERPENDICULAR AND PARALLEL, UNLESS NOTED OTHERWISE.
8. PATCH ALL DISTURBED SURFACES WITH MATERIALS TO MATCH ADJACENT SURFACE CONSTRUCTION.
9. PROVIDE APPROVED SMOKE/FIRESTOPPING ASSEMBLIES AT ALL MECHANICAL AND ELECTRICAL PENETRATIONSTHROUGH FIRE RATED AND SMOKE RESISTANT PARTITIONS IDENTIFIED ON CODE COMPLIANCE DRAWINGS.
10. TENANT FURNISHED EQUIPMENT IS SHOWN FADED FOR REFERENCE ONLY. REFER TO EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION.
11. REFER TO INTERIOR PLANS FOR FINISHES INCLUDING WALL PROTECTION ITEMS.
12. SEE SHEET A4.10 FOR OFFICE BLOCK WALL TYPES.

PROJECT KEY PLAN



1 **OVERALL FLOOR PLAN**

A.100 1/32" = 1'-0"

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CONSULTANTS

PROJECT INFO

DELIVERY STATION - YOGA

10635 TEXTILE RD,
BELLEVILLE MI 48111

SEALS

STATE OF MICHIGAN
PATRICK D. GAITHER
ARCHITECT
No. 1301071504
LICENSED ARCHITECT
01/07/2022

SHEET RELEASES

	DATE	RELEASE
5	11/06/2021	ISSUED FOR SITE PLAN REVIEW

PM:	KK
PA:	PR
JOB NO:	100-2020-13
DATE:	09/15/2021

SHEET INFO

OVERALL FLOOR PLAN

A.100

ROOF PLAN KEY

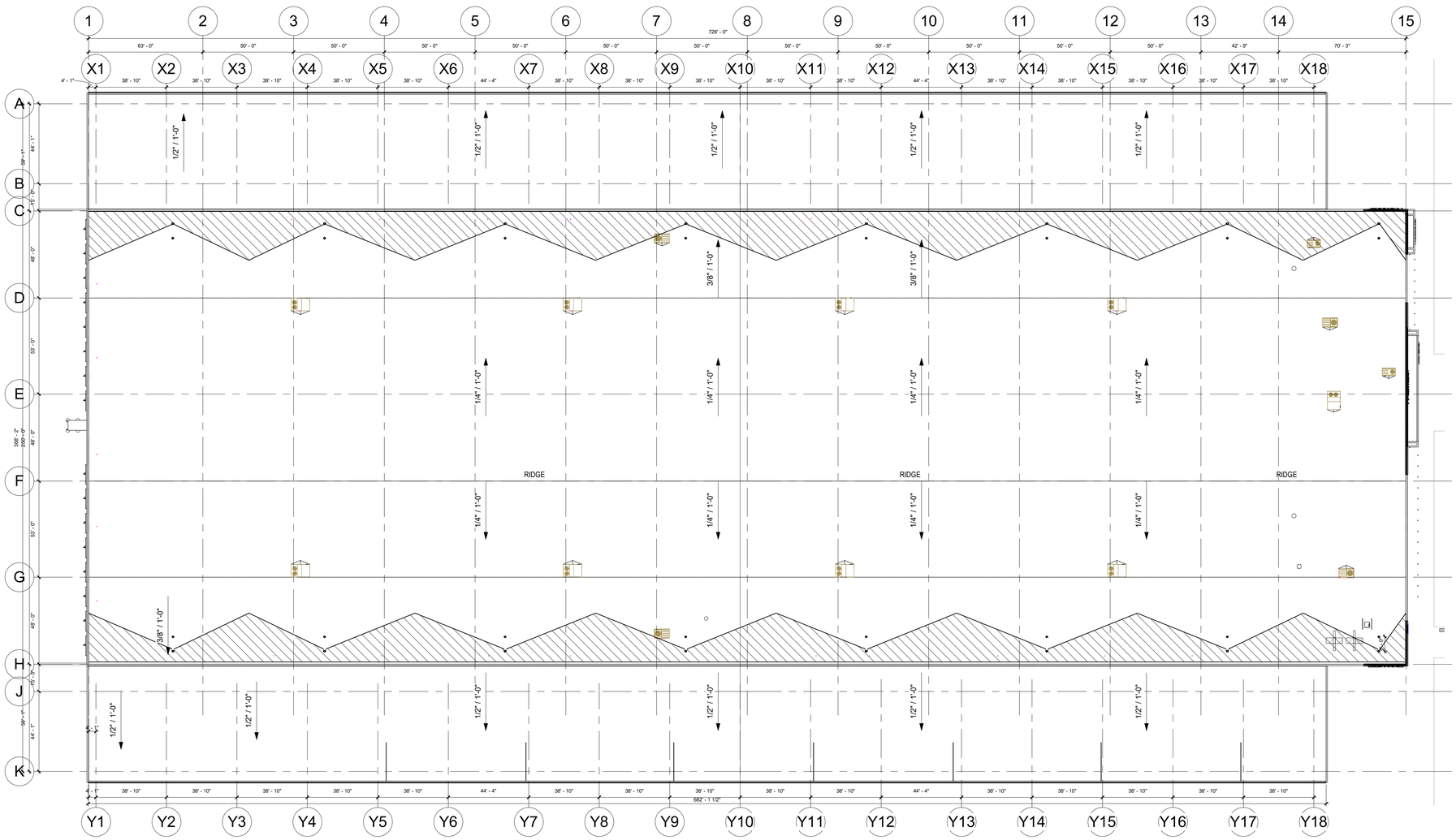
MEMBRANE ROOFING

TAPERED INSULATION

ROOF SLOPE DUE TO TAPERED INSULATION OR SLOPED STRUCTURE - REFER TO STRUCTURAL DRAWINGS

NOTES

1. TYPICAL ROOF SLOPE 1/4" / 1'-0" UNLESS NOTED OTHERWISE.
2. PROVIDE ROOFING MANUFACTURERS STANDARD ROOFING TERMINATION DETAILS AT ALL PARAPETS, PRE-MANUFACTURED ROOF EDGE SYSTEMS, CURBS, PIPE PENETRATIONS, ETC.
3. PROVIDE CRICKETS AS REQUIRED AT ALL MECHANICAL UNITS, VENTS, ETC. TO MAINTAIN POSITIVE SLOPE OF 1/4" /1'-0" MINIMUM.



1 OVERALL ROOF PLAN

1/32" = 1'-0"

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PA:	Author
JOB NO:	100-2020-13
DATE:	09/15/2021

SHEET INFO

ROOF PLAN

A.101

EXISTING GAS LINE PER SURVEY

EASEMENT PER SURVEY

PROPOSED BOUNDARY PER SURVEY

EXISTING SANITARY EASEMENT

WETLAND PER NATIONAL WETLAND INVENTORY

STORMWATER AREA

RAWSONVILLE ROAD

TRUCKERS BATHROOM

TRASH/RECYCLING DOOR

PROPOSED DELIVERY STATION BUILDING

±181,500 SF

DSP ENTRANCE

DSP ENTRANCE

ASSOCIATE ENTRANCE

3 12'X33' RELOAD SPACES

3 12'X33' RELOAD SPACES

VAN & TRUCK ENTRY/EXIT

TEXTILE ROAD

CAR ENTRY/EXIT

VAN AND CAR ENTRY/EXIT

SANITARY

TRAFFIC FLOW LEGEND

- ASSOCIATE TRAFFIC FLOW DIRECTION
- VAN EXIT TRAFFIC FLOW DIRECTION
- VAN RETURN TRAFFIC FLOW DIRECTION
- TRUCK TRAFFIC FLOW DIRECTION
- PEDESTRIAN FLOW ROUTE

GRAPHIC SCALE IN FEET

0 50 100 200

NORTH

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DELIVERY STATION - DDM4

TEXTILE RD AND MCKEAN RD,
BELLEVILLE MI 48111

SEALS

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No. 1301071504
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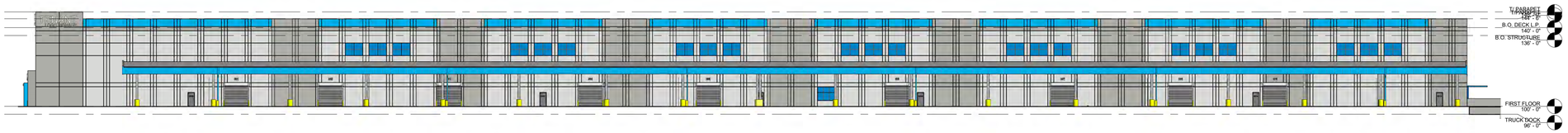
SHEET INFO

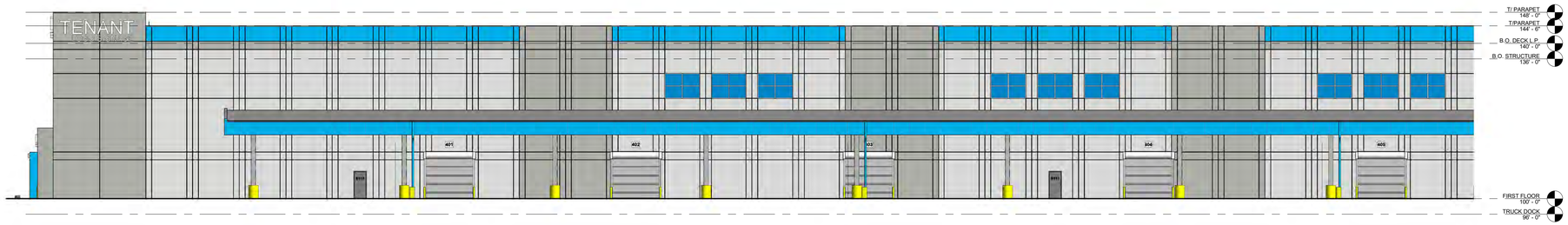
TRAFFIC STUDY SITE PLAN

A.102



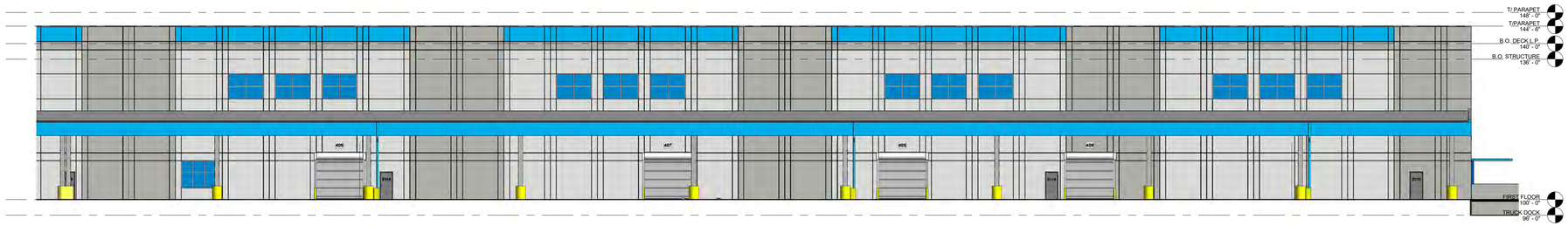
1 OVERALL NORTH ELEVATION

A.200 1" = 30'-0"



2 ENLARGED NORTH ELEVATION PART A

A.200 1/16" = 1'-0"



3 ENLARGED NORTH ELEVATION PART B

A.200 1/16" = 1'-0"

EXTERIOR MATERIALS LEGEND

- P-1 SHERWIN WILLIAMS SW 7063 NEBULOUS WHITE
- P-2 SHERWIN WILLIAMS SW 7066 GRAY MATTERS
- MP-1 COLOR TO MATCH PANTONE 2995 C
- MP-2 COLOR TO MATCH SW 7066 GRAY MATTERS
- P-3 PAINT COLOR TO MATCH PANTONE 2995 C

BUILDING ELEMENTS	COLOR
METAL COPING	ALUMINUM PREFINISHED TO MATCH MP-1
METAL DOWNSPOUT AND CONDUCTOR HEADS	COLOR TO MATCH MP-2
GALVANIZED HOLLOW METAL DOORS AND FRAMES	COLOR TO MATCH P-1
HUB ENTRY SOFFIT	COLOR TO MATCH MP-2
ASSOCIATE ENTRY CANOPY	MP-1
UNDERSIDE OF DECK AND STRUCTURAL STEEL AT DRIVE UNDER CANOPY	P-1
COLUMNS AT DRIVE UNDER CANOPY	P-2

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DELIVERY STATION - YOGA

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BELLEVILLE MI 48111

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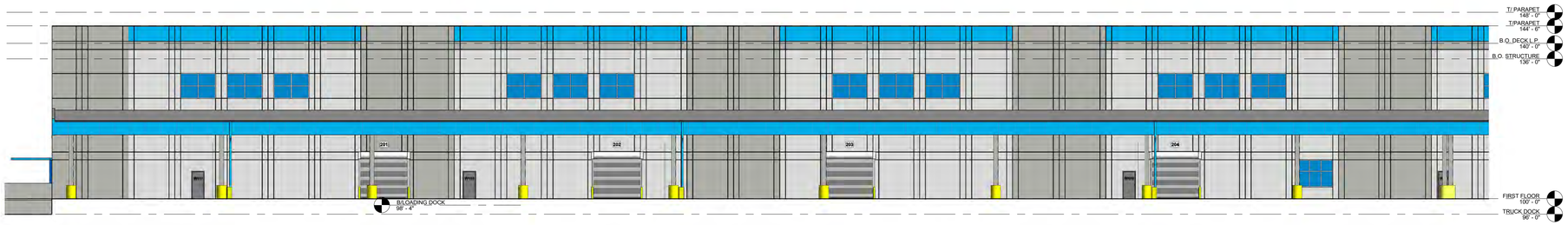
EXTERIOR ELEVATIONS

A.200

1 OVERALL SOUTH ELEVATION

A.201 1" = 30'-0"



2 ENLARGED SOUTH ELEVATION PART A

A.201 1/16" = 1'-0"

3 ENLARGED SOUTH ELEVATION PART B

A.201 1/16" = 1'-0"

EXTERIOR MATERIALS LEGEND

- P-1 SHERWIN WILLIAMS SW 7063 NEBULOUS WHITE
- P-2 SHERWIN WILLIAMS SW 7066 GRAY MATTERS
- MP-1 COLOR TO MATCH PANTONE 2995 C
- MP-2 COLOR TO MATCH SW 7066 GRAY MATTERS
- P-3 PAINT COLOR TO MATCH PANTONE 2995 C

BUILDING ELEMENTS	COLOR
METAL COPING	ALUMINUM PREFINISHED TO MATCH MP-1
METAL DOWNSPOUT AND CONDUCTOR HEADS	COLOR TO MATCH MP-2
GALVANIZED HOLLOW METAL DOORS AND FRAMES	COLOR TO MATCH P-1
HUB ENTRY SOFFIT	COLOR TO MATCH MP-2
ASSOCIATE ENTRY CANOPY	MP-1
UNDERSIDE OF DECK AND STRUCTURAL STEEL AT DRIVE UNDER CANOPY	P-1
COLUMNS AT DRIVE UNDER CANOPY	P-2

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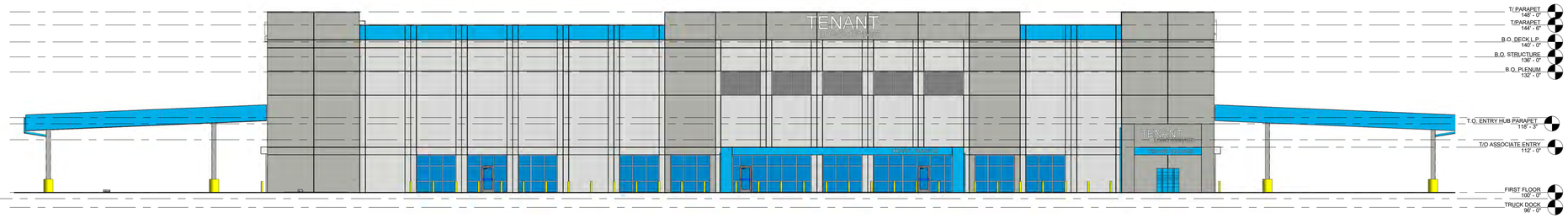
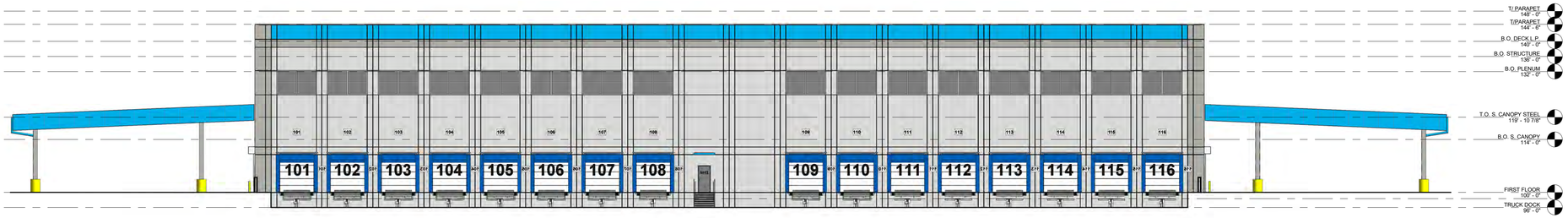
EXTERIOR ELEVATIONS

A.201



1 ENLARGED EAST ELEVATION

A.202 1/16" = 1'-0"



2 ENLARGED WEST ELEVATION

A.202 1/16" = 1'-0"

EXTERIOR MATERIALS LEGEND

P-1
SHERWIN WILLIAMS
SW 7063
NEBULOUS WHITE

P-2
SHERWIN WILLIAMS
SW 7066
GRAY MATTERS

MP-1
COLOR TO MATCH
PANTONE 2995 C

MP-2
COLOR TO MATCH
SW 7066
GRAY MATTERS

P-3
PAINT COLOR TO MATCH
PANTONE 2995 C

BUILDING ELEMENTS	COLOR
METAL COPING	ALUMINUM PREFINISHED TO MATCH MP-1
METAL DOWNSPOUT AND CONDUCTOR HEADS	COLOR TO MATCH MP-2
GALVANIZED HOLLOW METAL DOORS AND FRAMES	COLOR TO MATCH P-1
HUB ENTRY SOFFIT	COLOR TO MATCH MP-2
ASSOCIATE ENTRY CANOPY	MP-1
UNDERSIDE OF DECK AND STRUCTURAL STEEL AT DRIVE UNDER CANOPY	P-1
COLUMNS AT DRIVE UNDER CANOPY	P-2

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EXTERIOR ELEVATIONS

A.202

1 A.203 **EXTERIOR FRONT RENDERING**

NTS

2 A.203 **EXTERIOR FRONT RENDERING**

NTS

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DELIVERY STATION - DDM4

TEXTILE RD AND MCKEAN RD,
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SEALS

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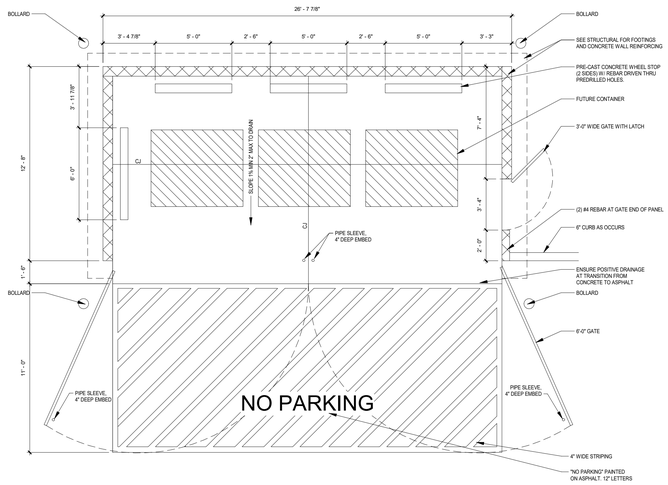
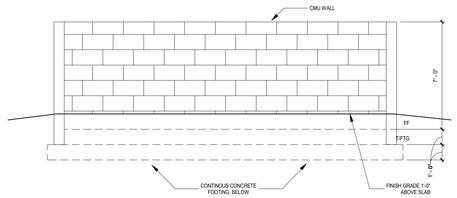
EXTERIOR RENDERINGS

A.203



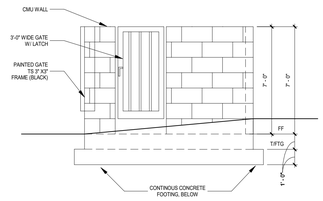
5 TRASH ENCLOSURE PLAN

A5.05 1/4" = 1'-0"



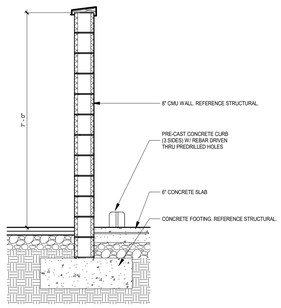
1 TRASH ENCLOSURE ELEVATION

A5.05 1/4" = 1'-0"



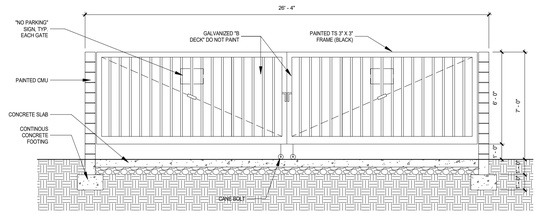
2 TRASH ENCLOSURE ELEVATION 2

A5.05 1/4" = 1'-0"



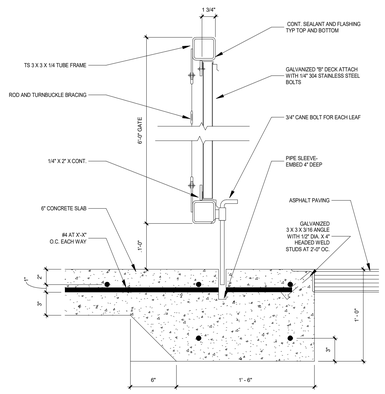
6 TRASH ENCLOSURE WALL

A5.05 1/2" = 1'-0"



3 TRASH ENCLOSURE ELEVATION 3

A5.05 1/4" = 1'-0"



4 GATE SECTION

A5.05 1 1/2" = 1'-0"

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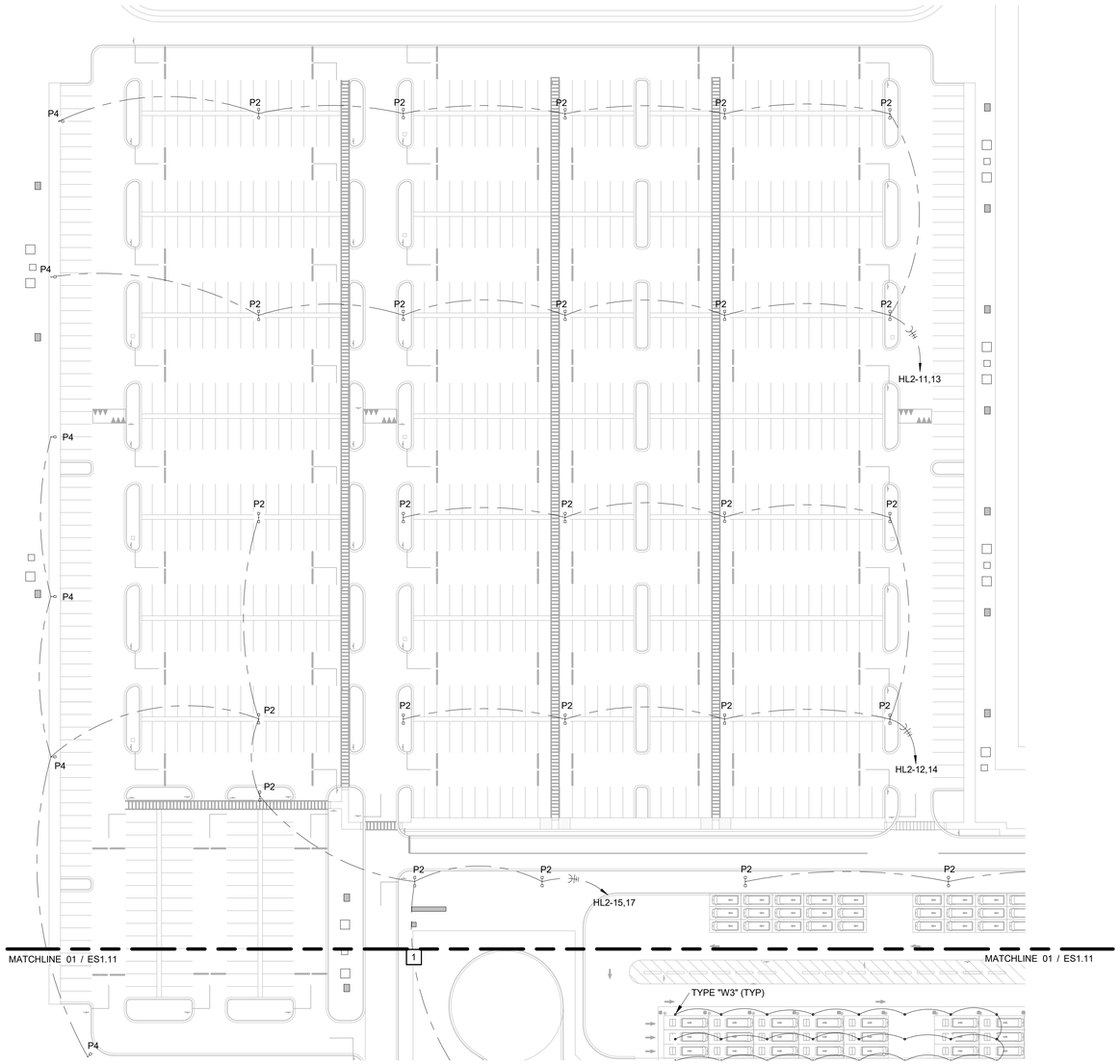
DATE:	09/15/2021

SHEET INFO

SITE DETAILS

A.800



01 ELECTRICAL SITE PLAN - UNIT A

1" = 60'-0"

UTILITY SERVICE NOTE:
OWNER PREFENCE IS A MEDIUM VOLTAGE PRIMARY SERVICE AS SHOWN IN CONSTRUCTION DOCUMENTS. HOWEVER IF THAT IS NOT POSSIBLE DUE TO CONSTRUCTION SCHEDULE OR UTILITY CAPACTIY, SECONDARY METERING TO THE SITE FOR THE BUILIDNG POWER IS ACCEPTABLE TO MEET CONSTRUCTION SCHEDULE.

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PROJECT INFO

PROJECT YOGA

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Belleville, MI 48111

SEALS

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STATE OF MICHIGAN
ADRIAN T. FRANKS
ENGINEER
No. 6201059619
LICENSED PROFESSIONAL ENGINEER

01/07/2022

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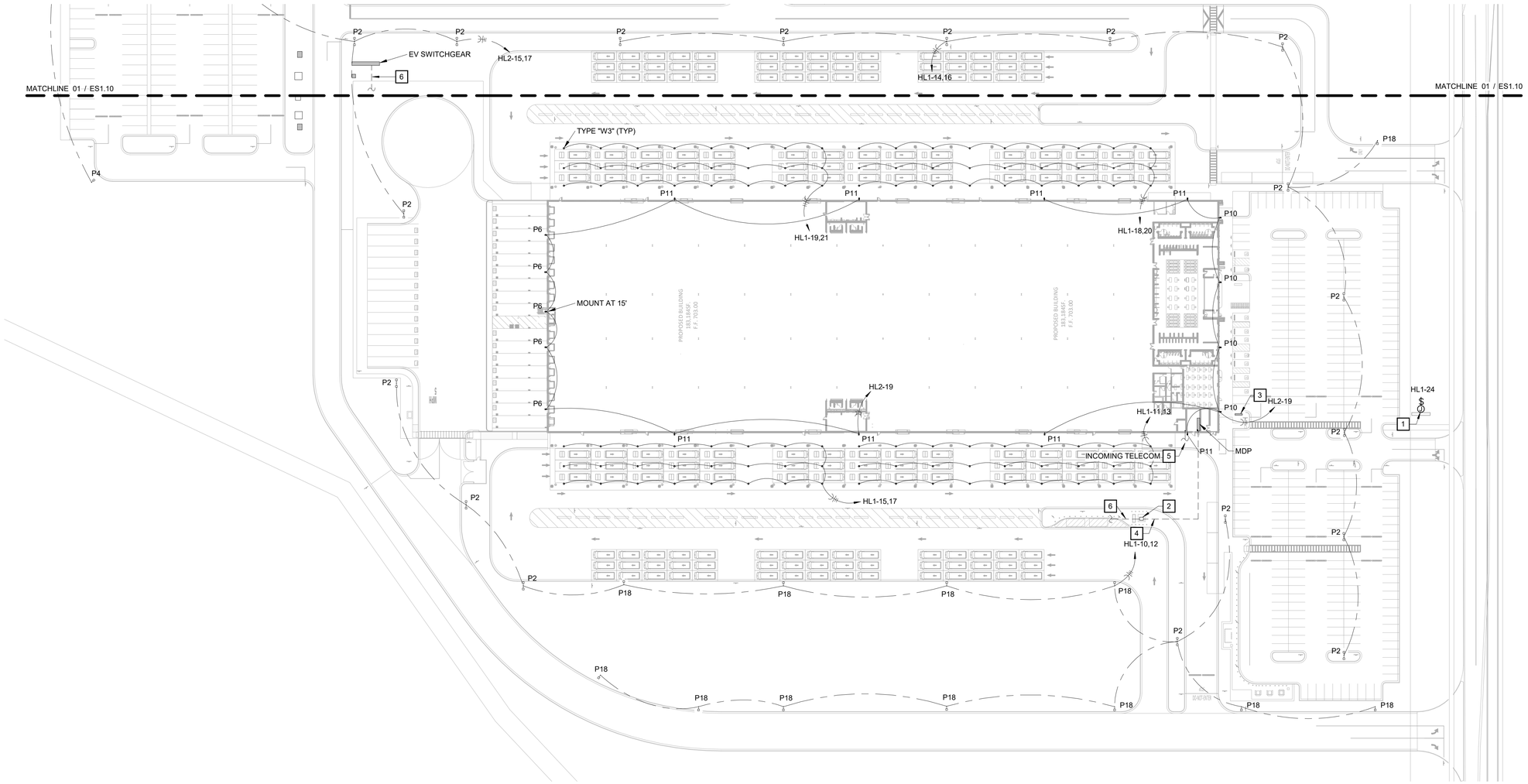
ELECTRICAL SITE PLAN - UNIT A

ES1.10



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ELECTRICAL KEY NOTES

1. PROVIDE 30A,2P, NEMA 3R DISCONNECT WITH (2)#6, (1)#6G IN 1"C TO SIGN. COORDINATE POWER REQUIREMENTS AND VOLTAGE CONFIGURATION WITH SIGNAGE VENDOR PRIOR TO ROUGH-IN.
2. NEW PAD-MOUNTED TRANSFORMER AND TRANSFORMER PAD (BY ELECTRICAL CONTRACTOR). COORDINATE EXACT TRANSFORMER LOCATION WITH CIVIL ENGINEER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. TEMPORARY GENERATOR DOCKING SWITCHBOARD WITH CAMLOCK CONNECTORS. SERVICE ENTRANCE RATED, NEMA 3R.
4. NEW SECONDARY SERVICE CONDUITS. REFER TO DRAWING ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. PROVIDE MINIMUM (8) 4" CONDUITS.
5. (4) 4" SCHEDULE 80 PVC CONDUITS FROM LOCAL TEL/COM PROVIDER SERVICE. COORDINATE EXACT CONDUIT ROUTING AND ADDITIONAL REQUIREMENTS WITH LOCAL TEL/COM PROVIDER AND CIVIL ENGINEER. REFER TO OVERALL POWER PLAN FOR TEL/COM CONDUIT TERMINATIONS LOCATION AND ADDITIONAL REQUIREMENTS.
6. CONDUIT SIZE TO BE COORDINATED WITH UTILITY. REFER TO CIVIL PLANS FOR CONTINUATION.

01 ELECTRICAL SITE PLAN - UNIT B
1" = 60'-0"

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ENGINEER
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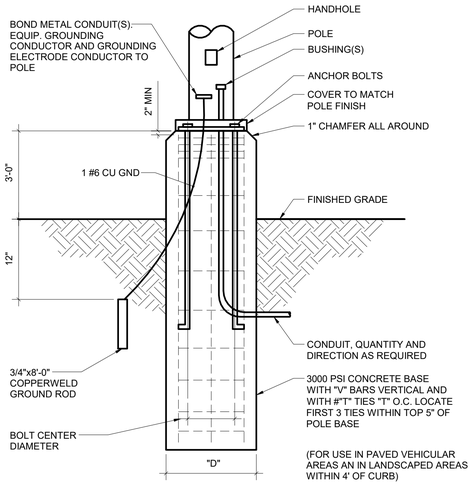
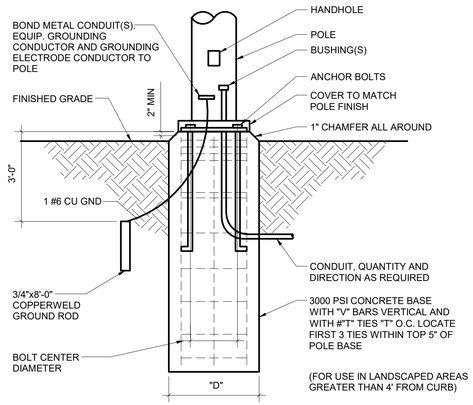
ELECTRICAL SITE PLAN - UNIT B

ES1.11



EXTENDED POLE BASE

NOTE: POLE BASE DESIGN BY STRUCTURAL ENGINEER, REFER TO STRUCTURAL DRAWINGS.



FLUSH POLE BASE

01 LIGHTING POLE BASE DETAIL

NOT TO SCALE

LIGHTING EXTERIOR FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS	VOLTS	FIXTURE WATTS	REMARKS
P2	LITHONIA	DSX2-LED-P2-40K-T4M-480	DOUBLE HEAD LIGHT POLE WITH TYPE T4M DISTRIBUTION	LED	480 V	370 VA	MOUNTED AT 28'
P4	LITHONIA	DSX2-LED-P8-40K-TFTM-480-HS	SINGLE HEAD LIGHT POLE WITH TYPE TFTM DISTRIBUTION	LED	480 V	431 VA	MOUNTED AT 28'
P6	LITHONIA	DSX2-LED-P7-40K-TFTM-MVOLT	BUILDING LIGHT WITH TYPE TFTM DISTRIBUTION	LED	277 V	398 VA	MOUNTED AT 28'
P10	LITHONIA	DSX2-LED-P2-40K-T2M-MVOLT	BUILDING LIGHT WITH TYPE T2M DISTRIBUTION	LED	277 V	185 VA	MOUNTED AT 28'
P11	LITHONIA	DSX1-LED-P3-40K-T2M-MVOLT	BUILDING LIGHT WITH TYPE T2M DISTRIBUTION	LED	277 V	102 VA	MOUNTED AT 16'
P18	LITHONIA	DSX2-LED-P8-40K-TFTM-480-HS	SINGLE HEAD LIGHT POLE WITH TYPE TFTM DISTRIBUTION	LED	480 V	431 VA	MOUNTED AT 28'
W3	LITHONIA	VCPG-LED-P6-40K-80CRI-T5W-480-PM-NLTAI R2-PIRH-DN-AXD	CEILING MOUNT, 4000K, UNV VOLTAGE, WIDE DISTRIBUTION, DARK BRONZE	LED	480 V	108 VA	MOUNTED AT 16'

LIGHTING FIXTURE GENERAL NOTES

1 LIGHT FIXTURES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

2 INSTALLATION OF LIGHT FIXTURES SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODE REQUIREMENTS.

3 VERIFY THE EXACT MOUNTING HEIGHT AND FINISH OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO PLACING ORDER OR COMMENCING ROUGH-IN.

4 WIRING CONNECTIONS TO EXTERIOR WALL MOUNTED FIXTURES SHALL BE WEATHERTIGHT. USE WEATHERPROOF JUNCTION BOXES, FITTINGS, COVERPLATES, ETC. AS REQUIRED TO PREVENT ENTRY OF WATER INTO WIRING BOXES. (EXTERIOR ONLY).

ALL SITE LIGHTING TO BE CONTROLLED VIA RELAY PANEL. CANOPY LIGHTING HAS INTEGRAL PHOTOCELL AND MOTION SENSORS.

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STATE OF MICHIGAN
ADRIAN T. FRANKS
ENGINEER
No. 6201059619
LICENSED PROFESSIONAL ENGINEER
01/07/2022

SHEET RELEASES

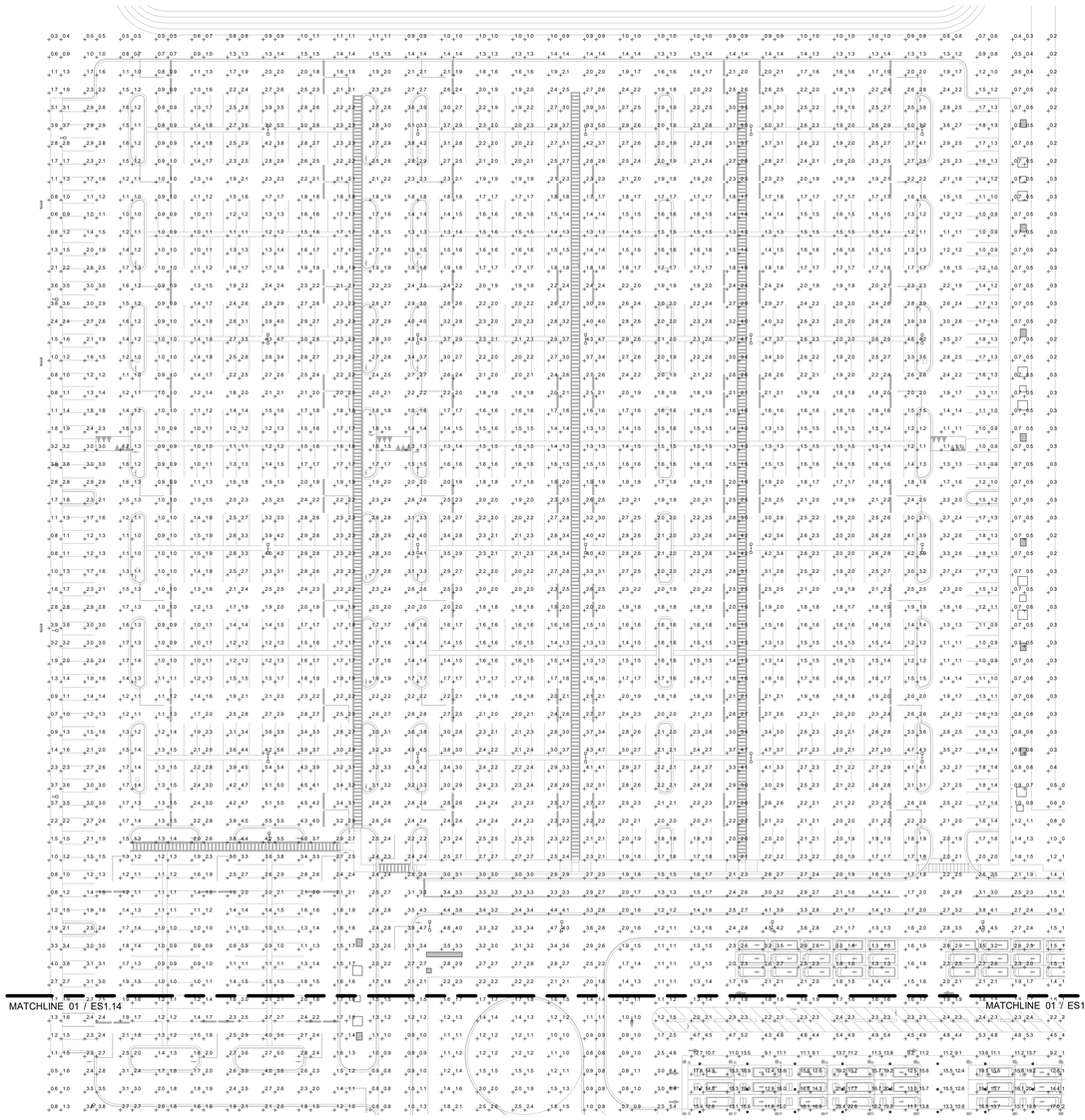
	DATE	RELEASE
	01/07/2022	ISSUED FOR SITE PLAN REVIEW

PM:	ELS
PA:	AAD
JOB NO:	100-2020-13
DATE:	01/07/2022

SHEET INFO

ELECTRICAL SITE SCHEDULES

ES1.12



01 ELECTRICAL SITE PHOTOMETRIC PLAN - UNIT A

1" = 60'-0"

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CANOPY NORTH	✳	14.1 fc	28.4 fc	4.9 fc	5.8:1	2.9:1
CANOPY SOUTH	✳	14.1 fc	28.5 fc	5.8 fc	4.9:1	2.4:1
EMPLOYEE PARKING	✳	2.9 fc	6.8 fc	0.8 fc	8.5:1	3.6:1
LOADING DOCK (60' OUT)	+	0.5 fc	1.0 fc	0.3 fc	3.3:1	1.7:1
OPEN TRUCK YARD	✳	1.5 fc	4.4 fc	0.5 fc	8.8:1	3.0:1
ROADWAY SOUTH	✳	2.4 fc	6.8 fc	0.7 fc	9.7:1	3.4:1
SITE	+	2.3 fc	28.5 fc	0.0 fc	N/A	N/A
TRUCKER ACCESS DOOR	+	0.1 fc	0.1 fc	0.1 fc	1.0:1	1.0:1
VAN LOT	✳	2.1 fc	5.6 fc	0.8 fc	7.0:1	2.6:1

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PA:	JPC
JOB NO:	100-2020-13
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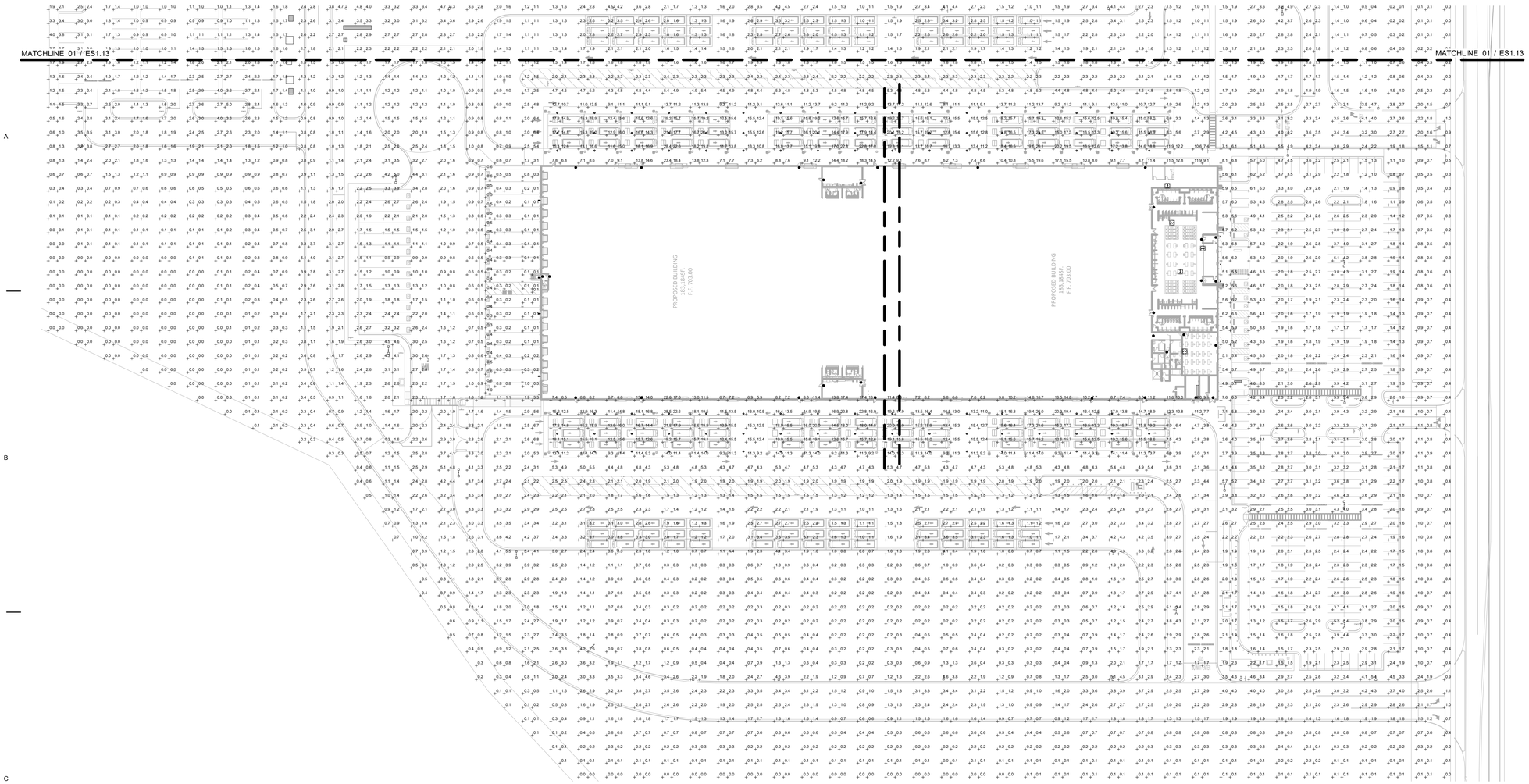
ELECTRICAL SITE PHOTOMETRICS PLAN - UNIT A

ES1.13



01 ELECTRICAL SITE PHOTOMETRIC PLAN - UNIT B

1" = 60'-0"

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CANOPY NORTH	✳	14.1 fc	28.4 fc	4.9 fc	5.8:1	2.9:1
CANOPY SOUTH	✳	14.1 fc	28.5 fc	5.8 fc	4.9:1	2.4:1
EMPLOYEE PARKING	✳	2.9 fc	6.8 fc	0.8 fc	8.5:1	3.6:1
LOADING DOCK (60' OUT)	+	0.5 fc	1.0 fc	0.3 fc	3.3:1	1.7:1
OPEN TRUCK YARD	✳	1.5 fc	4.4 fc	0.5 fc	8.8:1	3.0:1
ROADWAY SOUTH	✳	2.4 fc	6.8 fc	0.7 fc	9.7:1	3.4:1
SITE	+	2.3 fc	28.5 fc	0.0 fc	N/A	N/A
TRUCKER ACCESS DOOR	+	0.1 fc	0.1 fc	0.1 fc	1.0:1	1.0:1
VAN LOT	✳	2.1 fc	5.6 fc	0.8 fc	7.0:1	2.6:1

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PA:	Author
JOB NO:	100-2020-13
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SHEET INFO

ELECTRICAL SITE PHOTOMETRICS PLAN - UNIT B

ES1.14

ELECTRICL SYMBOL LEGEND

USUB	MEDIUM VOLTAGE UNIT SUBSTATION - PAD MOUNTED (NOTE L-5)
SWGR	MEDIUM VOLTAGE SWITCHGEAR - PAD MOUNTED (NOTE L-1)
LVSB	LOW VOLTAGE SWITCHGEAR - 600V (FUTURE)(NOTE L-2)
P#	FLUSH GROUND MOUNTED POWER PULLBOX WITH COVER. NUMBER INDICATES QUANTITY OF CHARGERS TO BE SERVED.
A#	FLUSH GROUND MOUNTED AUXILIARY PULLBOX WITH COVER. NUMBER INDICATES QUANTITY OF CHARGERS TO BE SERVED.
PMT	PAD MOUNTED TRANSFORMER (FUTURE) (NOTE L-3)
SW	PAD MOUNTED SWITCH (FUTURE) (NOTE L-4)
M	UTILITY METER
MH	FLUSH GROUND MOUNTED MANHOLE WITH LID
	RACEWAY/CABLE CONCEALED IN WALL AND/OR ABOVE CEILING
	RACEWAY/CABLE CONCEALED BELOW GRADE OR IN-SLAB
	RACEWAY INSTALLED EXPOSED
	GROUNDING CONNECTION (SYSTEM AND/OR EQUIPMENT)
	CONDUIT TURNING UP/DOWN
	CONDUIT STUB. TERMINATE IN INSULATED BUSHING OR CAP IF UNDERGROUND

LEGEND NOTES

L-1
MEDIUM VOLTAGE SWITCHGEAR IS INTENDED TO SERVE THE BUILDING AND THE EV CHARGING ELECTRICAL LOADS UNDER A COMMON METER. TO ACCOMMODATE THIS, THE MEDIUM VOLTAGE SWITCHGEAR WILL NEED TO BE INSTALLED UNDER THE INITIAL CONSTRUCTION PHASE. IT IS PERMISSIBLE TO PROVIDE A SEPARATE UTILITY SERVICE TO THE BUILDING ELECTRICAL SYSTEM UNDER THE INITIAL CONSTRUCTION PHASE AND PROVISIONS FOR THE FUTURE EV CHARGING ELECTRICAL SYSTEM IF APPROVED BY THE OWNER CONSTRUCTION MANAGER.

L-2
FUTURE LOW VOLTAGE SWITCHBOARD (277/480V-3PH) WITH PORTABLE GENERATOR CONNECTION CABINET. CONDUITS STUBBED TO THIS LOCATION SHALL BE GROUPED TOGETHER TO SUPPORT FUTURE SWITCHBOARD CONFIGURATION (SECONDARY ENTRANCE WINDOW AND DISTRIBUTION WINDOWS). REFER TO TABLE #3 FOR ESTIMATED AMPACITY RATINGS OF FUTURE SWITCHBOARD EQUIPMENT.

L-3
FUTURE PAD MOUNTED TRANSFORMER (277/480V-3PH SECONDARY), CONDUITS STUBBED TO THIS LOCATION SHALL BE GROUPED TOGETHER TO SUPPORT FUTURE TRANSFORMER CONFIGURATION (SECONDARY ENTRANCE WINDOW AND PRIMARY WINDOW). REFER TO TABLE #3 FOR ESTIMATED RATINGS OF FUTURE TRANSFORMER EQUIPMENT.

L-4
PAD MOUNTED PULLBOX OR FUTURE MEDIUM VOLTAGE SWITCH. IF MEDIUM VOLTAGE FEED IS TO BE UTILIZED FOR INITIAL CONSTRUCTION PHASE TO ENERGIZE THE BUILDING LOADS, THE ASSOCIATED MEDIUM VOLTAGE SWITCHES WILL NEED TO BE INSTALLED. OTHERWISE A PAD MOUNTED PULLBOX SUITABLE TO ACCOMMODATE A FUTURE MEDIUM VOLTAGE SWITCH IS TO BE PROVIDED. SWITCH IS TO BE A S+C 4-COMPARTMENT LOAD BREAK SWITCH PMH-10 OR EQUAL. IF PAD/PULLBOX IS USED, CONDUITS STUBBED TO THIS LOCATION SHALL BE GROUPED TOGETHER TO SUPPORT FUTURE SWITCH CONFIGURATION (REFER TO DETAIL 4, SHEET EV3.01). REFER TO TABLE #2 FOR CONDUCTOR SIZING.

TABLE #1 - EV CHARGER BRANCH CIRCUIT SIZING

CHARGER RATING	SUPPLY VOLTAGE	FULL LOAD AMPACITY	NEC MINIMUM BRANCH CIRCUIT RATING	RECOMMENDED WIRE SIZE FOR SINGLE CHARGER CIRCUIT		RECOMMENDED WIRE SIZE WITH DERATION (80%) DUE TO CONDUIT FILL (NOTE 1)		CONDUIT SIZE TO SERVE SINGLE EV CHARGER STATION BRANCH CIRCUIT		CONDUIT SIZE TO SERVE SINGLE EV CHARGER STATION BRANCH CIRCUITS IF UTILIZING 70% DERATION (NOTE 1)	
				CU	AL	CU	AL	IF USING CU CONDUCTORS	IF USING AL CONDUCTORS	IF USING CU CONDUCTORS	IF USING AL CONDUCTORS
50KW - DELIVERY VAN PARKING											
SINGLE (50KW)	480V-3PH	61A	76A	#3	#1			1 1/2"	2"		
						#2	#1/0			1 1/2"	2"
DUAL (100KW)	480V-3PH	121A	151A	#2/0	#3/0			2"	2"		
						#3/0	#250			2"	2 1/2"
QUAD (200KW)	480V-3PH	241A	301A	#350	#500			2 1/2"	3"		
						#500	#750			3"	4"

NOTE:
1. UTILIZE DERATED BRANCH CIRCUIT SIZING ONLY IF COMBINING TWO EV CHARGER CIRCUIT INTO A SINGLE RACEWAY BETWEEN THE LVSB AND THE POWER PULLBOX.

2. ALL POWER CONDUITS ARE TO BE 4" TO PROVIDE FUTURE PROOFING FOR VARIOUS EV CHARGING EQUIPMENT TO BE PROCURED.

TABLE #2 - MEDIUM VOLTAGE FEEDER SIZING

PRIMARY UTILITY VOLTAGE (NOTE 1)	MAXIMUM KW LOAD SUPPORTED ON 600A FUSE	MAXIMUM KW LOAD SUPPORTED ON 600A FUSE WITH 80% DIVERSITY	CONDUCTOR SIZE (MV-90) BASED ON FULL LOAD. MAX 2 CIRCUITS PER DUCTBANK (NOTE 2 AND 3)		CONDUIT SIZE	
			CU	AL	CU	AL
4160V	3454 KW	4317 KW	(1) #1000	(2) #500	(1) 6"	(1) 6"
12470V	10,355 KW	12,943 KW	(1) #1000	(2) #500	(1) 6"	(1) 6"
13800V	11,459 KW	14,324 KW	(1) #1000	(2) #500	(1) 6"	(1) 6"
25000V	25,950 KW	25,950 KW	(1) #1000	(2) #500	(1) 6"	(1) 6"

1. COORDINATE PRIMARY SERVICE VOLTAGE WITH UTILITY PROVIDER.
2. CONDUCTOR SIZE WILL NEED TO BE ADJUSTED IF MORE THAN THREE (3) DUCTBANKS ARE GROUPED TOGETHER (NEC 310.60)
3. CONDUCTOR SIZE WILL NEED TO BE ADJUSTED BASED ON ACTUAL DESIGN LOAD SERVED. TABLE DEFINES CONDUCTOR SIZE FOR FULLY LOADED 600A FEED.

TABLE #3 - EV CHARGER FUTURE SWITCHBOARD AND PAD MOUNTED TRANSFORMER SIZING SCHEDULE

MAXIMUM TOTAL KW OF EV CHARGERS (50KW EACH)	CALCULATED LV SWBD AMPACITY RATING (1.25 NEC)	CALCULATED PAD MTD TRANSFORMER RATING
	80% DIVERSITY	80% DIVERSITY
500	600A	500KW
650	800A	750KW
800	1000A	750KW
1000	1200A	1000KW
1300	1600A	1500KW
1650	2000A	1500KW
2100	2500A	2000KW
2500	3000A	2000KW
3350	4000A	3000KW
4150	5000A	3750KW

NOTE: ALL OF THE RATINGS LISTED ARE BASED ON 480V-3PHASE ELECTRICAL SERVICE.

UTILITY COORDINATION

THE SITE DEVELOPER SHALL PROVIDE UTILITY COORDINATION TO SUPPORT THE FOLLOWING:

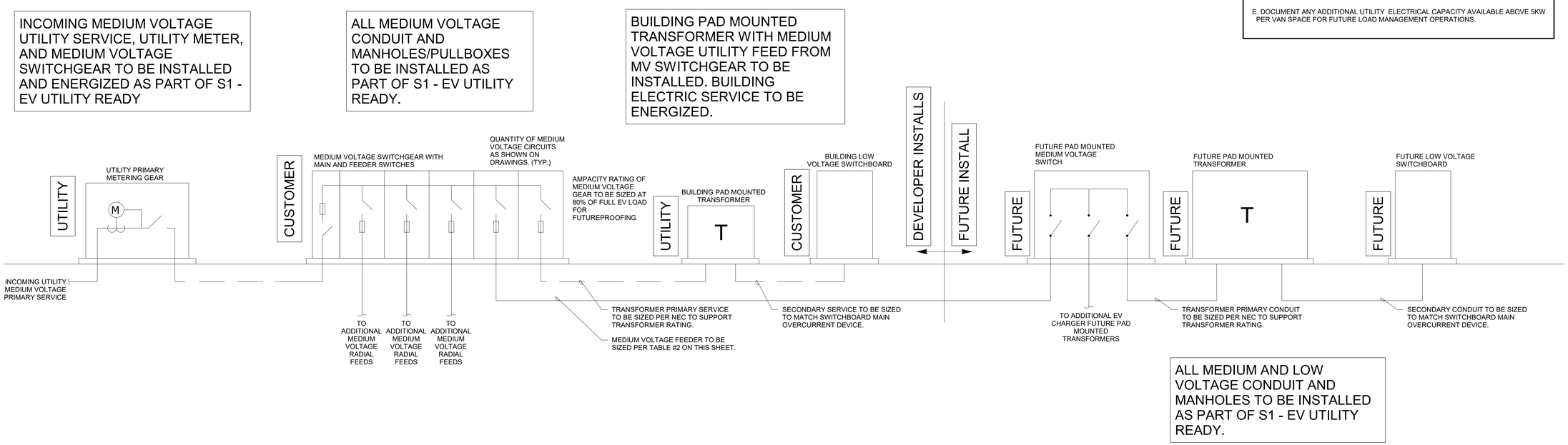
A. COORDINATE A SINGLE POINT MEDIUM VOLTAGE SERVICE AT THE VOLTAGE OF THE UTILITY PROVIDER'S DISTRIBUTION SYSTEM. THIS SERVICE IS INTENDED TO SERVE THE BUILDING AND EV CHARGING DISTRIBUTION LOADS.

B. BEHIND A PRIMARY METERING CONFIGURATION, PROVIDE MEDIUM VOLTAGE SWITCHGEAR AT THE SITE BOUNDARY SIZED TO SUPPORT CALCULATED DEMAND LOAD FOR BUILDING AND ALL DELIVERY VAN PARKING STALLS.

C. CONFIRM SUFFICIENT UTILITY ELECTRICAL CAPACITY TO SUPPORT BUILDING LOADS AT BUILDING TRANSFOMER(S) AT SITE LAUNCH (ESTIMATED AT 500KW).

D. CONFIRM THE AVAILABILITY OF UTILITY ELECTRICAL CAPACITY TO SUPPORT 5KW DEMAND LOAD PER VAN PARKING SPACE, WHICH AMAZON WILL UTILIZE WITHIN 2-5 YEARS FOR THEIR EV VAN FLEET. 5KW EV LOAD IS THE ESTIMATED DEMAND LOAD AT EACH VAN PARKING SPACE FOR THE TYPICAL AVERAGE POWER DEMAND WHEN ACCOUNTING FOR 80% DIVERSITY, LOAD MANAGEMENT SEQUENTIAL CHARGING (I.E. ONLY A PROPORTION OF TOTAL VEHICLES CHARGING SIMULTANEOUSLY) AND PHASING OF EV FLEET DEPLOYMENT UP TO 2025. FULLY UTILIZED POWER REQUIREMENTS FOR EV CHARGING ARE ANTICIPATED TO BE IN THE RANGE OF 1.5MW TO 6MW DEPENDING ON THE TOTAL NUMBER OF DELIVERY VAN PARKING SPACES ON THE SITE (LOAD VALUES ASSUME 300 TO 1200 DELIVERY VANS PARKING SPACES AND 5KW DEMAND LOAD AT EACH DELIVERY VAN PARKING SPACE WITH LOAD MANAGEMENT).
5KW EV LOAD PER STALL DOES NOT REFLECT THE EV CHARGING DISPENSER NAMEPLATE KW. AMAZON MAY INSTALL 11KW OR 25KW CHANGING DISPENSERS, BUT THE SITE'S POWER REQUIREMENT IS CALCULATED ON THE 5KW PER STALL PROXY VALUE TO ENABLE UTILITY PROVIDERS TO SUPPLY PROPORTIONATE POWER TO THE SITE. THE EV SITE INFRASTRUCTURE DESIGN IS BASED ON 50KW PER VAN SPACE TO SIZE RACEWAYS AND FUTURE EQUIPMENT TO PROVIDE FLEXIBILITY FOR FUTURE CHARGING EQUIPMENT.

E. DOCUMENT ANY ADDITIONAL UTILITY ELECTRICAL CAPACITY AVAILABLE ABOVE 5KW PER VAN SPACE FOR FUTURE LOAD MANAGEMENT OPERATIONS.



01 **EV-MEDIUM VOLTAGE RADIAL FEED DIAGRAM**
NOT TO SCALE

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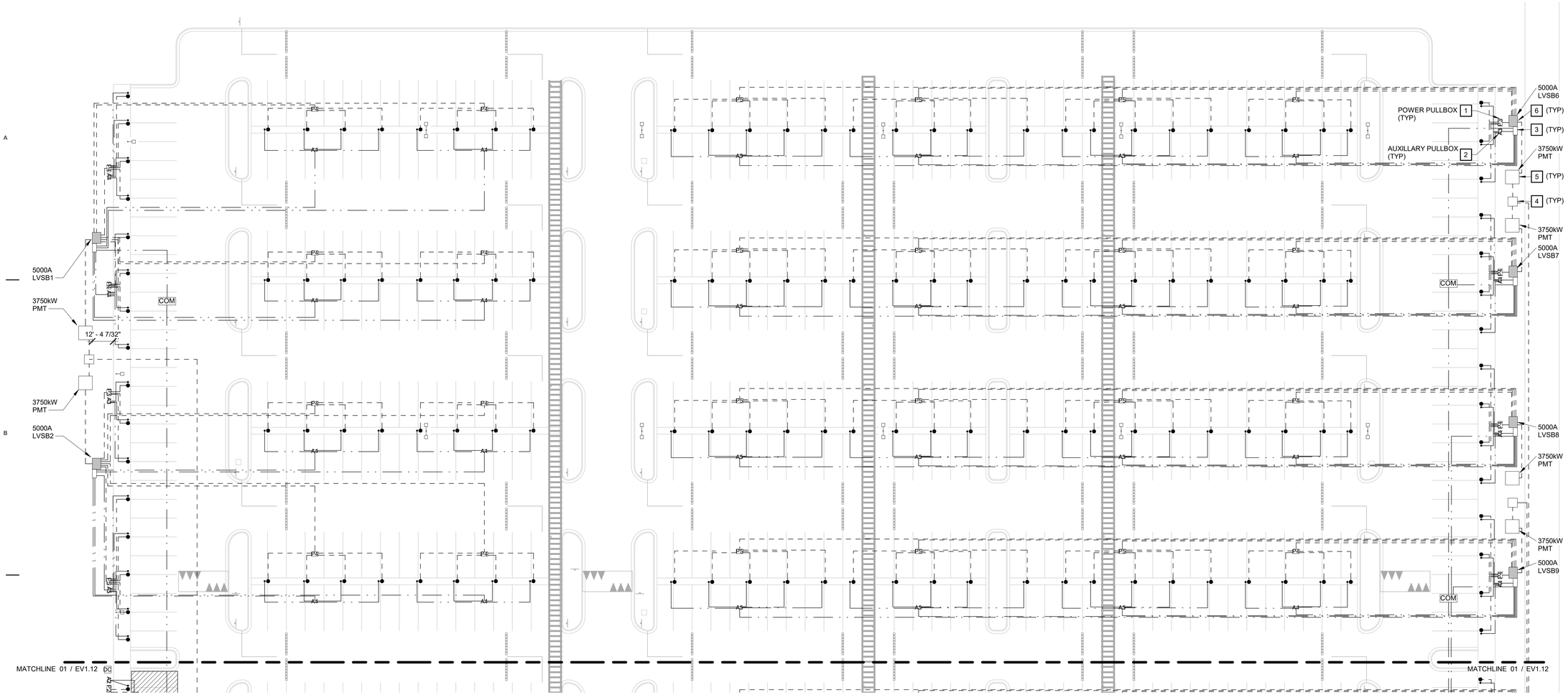
ELECTRICAL SCHEDULES AND NOTES

EV0.00



EV CHARGING EQUIPMENT	
MEDIUM VOLTAGE SWITCHGEAR	ELECTRICAL CONTRACTOR TO PROVIDE SWITCHGEAR. COORDINATE INCOMING VOLTAGE WITH UTILITY.
MEDIUM VOLTAGE SWITCHES (FUTURE)	SWITCH IS A FUTURE INSTALLATION. PROVIDE CONDUIT TO LOCATIONS SHOWN STUBBED UP WITH PULLSTRING.
PAD MOUNTED TRANSFORMERS (EV ONLY-FUTURE)	TRANSFORMER IS A FUTURE INSTALLATION. PROVIDE CONDUIT TO LOCATIONS SHOWN STUBBED UP WITH PULLSTRING.
LOW VOLTAGE SWITCHGEAR AND COMMUNICATIONS HUB (FUTURE)	SWITCHGEAR AND HUB IS A FUTURE INSTALLATION. PROVIDE POWER CONDUIT TO LOCATIONS SHOWN STUBBED UP WITH PULLSTRING. PROVIDE CONDUIT WITH PULLSTRING FOR AUXILLARY CONNECTION TO HUB. CONDUIT SIZE BASED ON AMPACITY OF LOW VOLTAGE SWITCHGEAR SHOWN ON PLANS.
EV CHARGERS (FUTURE)	EV CHARGERS ARE A FUTURE INSTALLATION. PROVIDE CONDUIT FOR POWER AND AUXILLARY TO LOCATIONS SHOWN STUBBED UP WITH PULLSTRING.

ELECTRICAL KEY NOTES

#

1 PROVIDE FLUSH GROUND MOUNTED ELECTRICAL PULLBOX WITH COVER TO SUPPORT FUTURE EV DUAL OR QUAD CHARGERS. PULLBOX IS TO BE INSTALLED AS PART OF UNDERGROUND RACEWAY SCOPE. PULLBOX SHALL BE SIZED PER DETAIL 07/EV3.01.
- ON EV CHARGER SIDE OF ELECTRICAL PULLBOX, PROVIDE ONE (1) CONDUIT FOR POWER TO EACH DUAL OR QUAD EV CHARGER STATION SHOWN. QUANTITY OF DUAL EV CHARGERS TO BE SERVED IS NOTED IN PULLBOX SYMBOL. SEE DETAIL FOR CONDUIT TERMINATION REQUIREMENTS. REFER TO DETAIL 02/EV3.01 FOR RACEWAY SIZING REQUIREMENTS.
- ON LOW VOLTAGE SWITCHBOARD SIDE OF ELECTRICAL PULLBOX, PROVIDE ONE 4" CONDUIT FOR EVERY TWO DUAL OR SINGLE QUAD EV CHARGERS SERVED (OR PORTION THEREOF) FOR FUTURE BRANCH CIRCUIT WIRING BACK TO LOW VOLTAGE SWITCHBOARD. THE INTENT IS TO COMBINE UP TO TWO EV CHARGER BRANCH CIRCUIT CONDUCTORS INTO A SINGLE CONDUIT FROM THE PULLBOX TO THE SWITCHBOARD

2 PROVIDE FLUSH GROUND MOUNTED AUXILIARY PULLBOX WITH COVER TO SUPPORT FUTURE EV CHARGERS. PULLBOX IS TO BE INSTALLED AS PART OF UNDERGROUND RACEWAY SCOPE. PULLBOX SHALL BE SIZED PER DETAIL.
- ON EV CHARGER SIDE OF AUXILIARY PULLBOX, PROVIDE ONE (1) CONDUIT FOR AUXILIARY CABLING TO EACH DUAL OR QUAD EV CHARGER STATION SHOWN. QUANTITY OF EV CHARGERS TO BE SERVED IS NOTED IN PULLBOX SYMBOL. SEE DETAIL FOR CONDUIT TERMINATION REQUIREMENTS. REFER TO DETAIL 02/EV3.01 FOR RACEWAY SIZING REQUIREMENTS.
- ON COMMUNICATION HUB/LOAD MANAGEMENT SERVICE SIDE OF AUXILIARY PULLBOX, PROVIDE ONE 2" CONDUIT FOR EVERY TWO (2) DUAL OR QUAD EV CHARGERS SERVED (OR PORTION THEREOF) FOR FUTURE AUXILIARY CABLING BACK TO COMMUNICATIONS HUB LOCATED AT LOW VOLTAGE SWITCHBOARD. THE INTENT IS TO COMBINE UP TO THREE EV CHARGER AUXILIARY CABLES INTO A SINGLE CONDUIT FROM THE PULLBOX TO THE COMMUNICATIONS HUB.

ELECTRICAL KEY NOTES

3 FUTURE COMMUNICATION SYSTEM HUB/LOAD MANAGEMENT LOCATION. PROVIDE ONE (1) 2" CONDUIT FROM FUTURE COMMUNICATION HUB LOCATION TO DEMARC ROOM IN BUILDING TO SUPPORT FUTURE COMMUNICATIONS CABLING. UP TO FOUR (4) COMMUNICATIONS HUB CONDUITS MAY BE COMBINED INTO ONE (1) 4" CONDUIT BACK TO THE DEMARC ROOM IN BUILDING. IT IS ANTICIPATED THAT THE FUTURE COMMUNICATIONS CABLING WILL BE FIBER OPTIC CABLING. CONDUIT SHALL BE SUITABLE FOR FIBER OPTIC CABLING (SWEEPING BENDS). PROVIDE 16" SQUARE BY 24" DEEP MINIMUM SIZE FLUSH GROUND MOUNTED PULLBOXES LOCATED IN LANDSCAPED AREAS (NON-TRAFFIC AREAS) SPACED NO GREATER THAN EVERY 300' TO SUPPORT PULLING OF FUTURE FIBER OPTIC CABLING. FIELD VERIFY LOCATIONS. PROVIDE TRAFFIC RATED PULLBOXES IF PULLBOXES ARE LOCATED IN TRAFFIC AREAS. INCREASE PULLBOX SIZES AS REQUIRED TO ACCOMMODATE INCREASED CONDUIT SIZES AND/OR QUANTITIES. COMMUNICATIONS HUB IS INTENDED TO BE INSTALLED ON UNISTRUT STANCHION, UNISTRUT STANCHION TO BE PROVIDED IN FUTURE WHEN HUB IS INSTALLED.

4 PROVIDE UNDERGROUND CONDUIT FOR FUTURE PRIMARY SERVICE TO PAD MOUNTED 15KV SWITCH LOCATIONS SHOWN (S+C 4-COMPARTMENT LOAD BREAK SWITCH PMH-10 OR EQUAL). REFER TO DETAIL 3/EV0.00 FOR REQUIREMENTS. CONDUITS SHALL RUN FROM PAD MOUNTED SWITCH LOCATIONS BACK TO MAIN 15KV SWITCHGEAR. CONDUITS STUBBED TO THE SWITCH LOCATION SHALL BE GROUPED TOGETHER TO BE ABLE TO FIT INTO THE BOTTOM OF THE SWITCHGEAR CONDUIT WINDOW(S). REFER TO DETAIL 3/EV0.00 FOR CONDUIT SIZING REQUIREMENTS. HOUSEKEEPING PAD TO BE PROVIDED IN FUTURE WHENSWITCH IS INSTALLED.

ELECTRICAL KEY NOTES

5 PROVIDE UNDERGROUND CONDUIT FOR FUTURE PRIMARY SERVICE TO FUTURE PAD MOUNTED TRANSFORMER LOCATIONS SHOWN. PROVIDE ONE (1) 6" CONDUIT FOR EACH RUN SHOWN. CONDUIT SHALL RUN FROM PAD MOUNTED TRANSFORMER TO PAD MOUNTED SWITCH. CONDUIT SHALL BE LOCATED TO ALLOW FOR ENTRY INTO PAD MOUNTED TRANSFORMER CONDUIT WINDOW OPENING. REFER TO TABLE #3 FOR KVA RATING OF PAD MOUNTED TRANSFORMER. HOUSEKEEPING PAD TO BE PROVIDED IN FUTURE WHEN TRANSFORMER IS INSTALLED.

6 FUTURE LOW VOLTAGE SWITCHBOARD LOCATION. LV SWITCHBOARD WILL BE FED FROM ADJACENT FUTURE PAD MOUNTED TRANSFORMER AND WILL CONTAIN A MAIN OVERCURRENT PROTECTIVE DEVICE AND ALL OF THE BRANCH CIRCUIT BREAKERS TO SERVE ALL OF THE EV CHARGERS FED FROM THIS LV SWITCHBOARD. LV SWITCHBOARD WILL ALSO HAVE A PORTABLE GENERATOR CONNECTION CABINET SUITABLE TO CONNECT THE ENTIRE SWITCHBOARD LOAD TO A PORTABLE GENERATOR. PROVIDE TRYSTAR CONNECTION CABINET OR EQUAL. EV CHARGER CONDUITS STUBBED TO THIS LOCATION (SEE KEYNOTE ?) SHALL BE GROUPED TOGETHER TO BE ABLE TO FIT INTO THE BOTTOM OF THE SWITCH BOARD CONDUIT WINDOW(S). REFER TO TABLE #3 FOR ESTIMATED AMPACITY RATING OF LVSS EQUIPMENT. HOUSEKEEPING PAD TO BE PROVIDED IN FUTURE WHEN SWITCHBOARD IS INSTALLED.

01 EV CHARGING PLAN - UNIT A

1" = 30'-0"

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SEALS

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STATE OF MICHIGAN
ADRIAN T. FRANKS
ENGINEER
No. 6201059619
LICENSED PROFESSIONAL ENGINEER
01/07/2022

SHEET RELEASES

DATE	RELEASE
01/07/2022	ISSUED FOR SITE PLAN REVIEW

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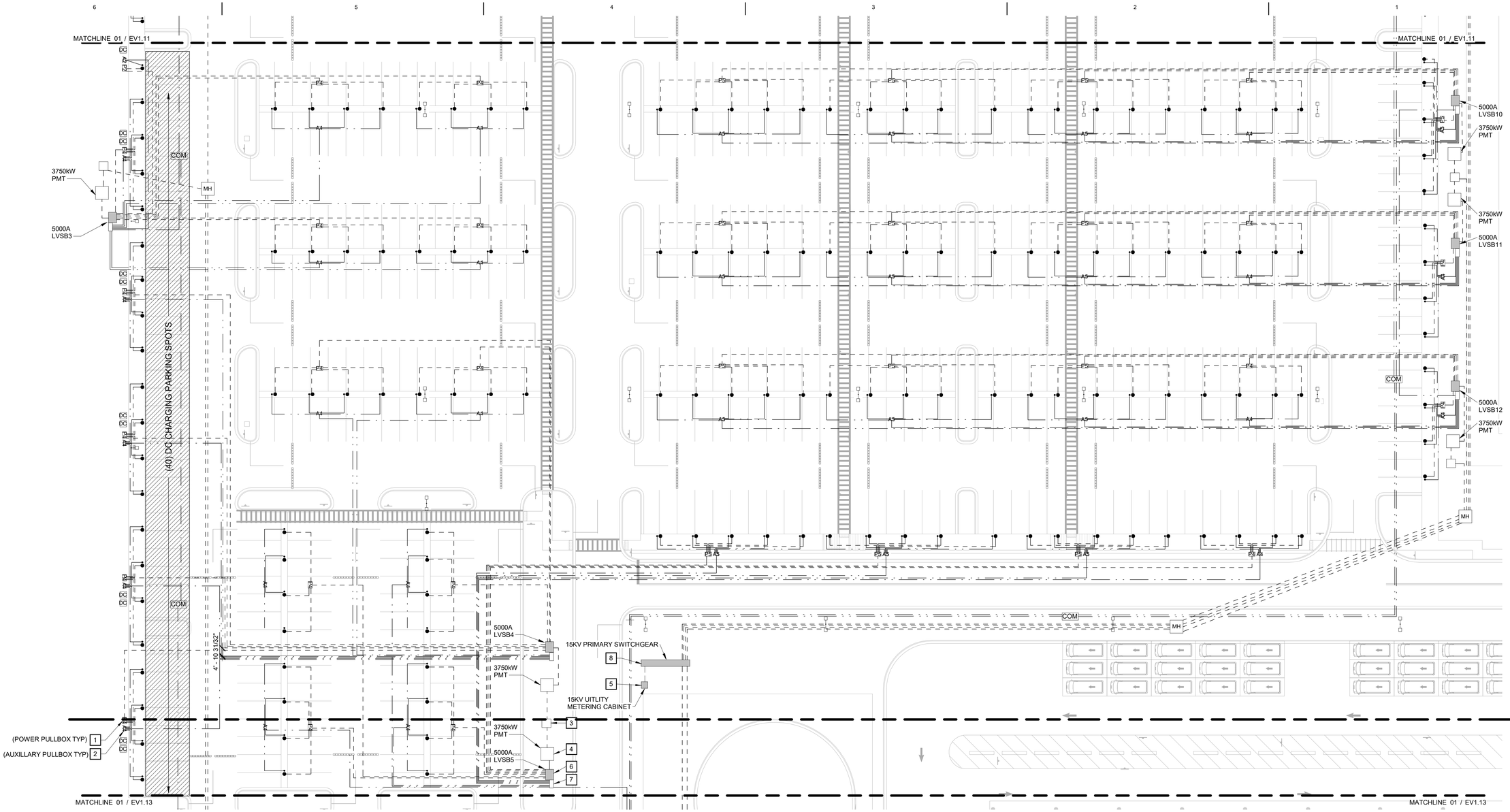
PA:	AAD
JOB NO:	100-2020-13
DATE:	01/07/2022

SHEET INFO

EV CHARGING PLAN - UNIT A

EV1.11



01 EV CHARGING PLAN - UNIT B

1" = 30'-0"

ELECTRICAL KEY NOTES

1 PROVIDE FLUSH GROUND MOUNTED ELECTRICAL PULLBOX WITH COVER TO SUPPORT FUTURE EV DUAL OR QUAD CHARGERS. PULLBOX IS TO BE INSTALLED AS PART OF UNDERGROUND RACEWAY SCOPE. PULLBOX SHALL BE SIZED PER DETAIL 07/EV3.01.
- ON EV CHARGER SIDE OF ELECTRICAL PULLBOX, PROVIDE ONE (1) CONDUIT FOR POWER TO EACH DUAL OR QUAD EV CHARGER STATION SHOWN. QUANTITY OF DUAL EV CHARGERS TO BE SERVED IS NOTED IN PULLBOX SYMBOL. SEE DETAIL FOR CONDUIT TERMINATION REQUIREMENTS. REFER TO DETAIL 02/EV3.01 FOR RACEWAY SIZING REQUIREMENTS.
- ON LOW VOLTAGE SWITCHBOARD SIDE OF ELECTRICAL PULLBOX, PROVIDE ONE 4" CONDUIT FOR EVERY TWO DUAL OR SINGLE QUAD EV CHARGERS SERVED (OR PORTION THEREOF) FOR FUTURE BRANCH CIRCUIT WIRING BACK TO LOW VOLTAGE SWITCHBOARD. THE INTENT IS TO COMBINE UP TO TWO EV CHARGER BRANCH CIRCUIT CONDUCTORS INTO A SINGLE CONDUIT FROM THE PULLBOX TO THE SWITCHBOARD

2 PROVIDE FLUSH GROUND MOUNTED AUXILIARY PULLBOX WITH COVER TO SUPPORT FUTURE EV CHARGERS. PULLBOX IS TO BE INSTALLED AS PART OF UNDERGROUND RACEWAY SCOPE. PULLBOX SHALL BE SIZED PER DETAIL.
- ON EV CHARGER SIDE OF AUXILIARY PULLBOX, PROVIDE ONE (1) CONDUIT FOR AUXILIARY CABLING TO EACH DUAL OR QUAD EV CHARGER STATION SHOWN. QUANTITY OF EV CHARGERS TO BE SERVED IS NOTED IN PULLBOX SYMBOL. SEE DETAIL FOR CONDUIT TERMINATION REQUIREMENTS. REFER TO DETAIL 02/EV3.01 FOR RACEWAY SIZING REQUIREMENTS.
- ON COMMUNICATION HUB/LOAD MANAGEMENT SERVICE SIDE OF AUXILIARY PULLBOX, PROVIDE ONE 2" CONDUIT FOR EVERY TWO (2) DUAL OR QUAD EV CHARGERS SERVED (OR PORTION THEREOF) FOR FUTURE AUXILIARY CABLING BACK TO COMMUNICATIONS HUB LOCATED AT LOW VOLTAGE SWITCHBOARD. THE INTENT IS TO COMBINE UP TO THREE EV CHARGER AUXILIARY CABLES INTO A SINGLE CONDUIT FROM THE PULLBOX TO THE COMMUNICATIONS HUB.

ELECTRICAL KEY NOTES

3 PROVIDE UNDERGROUND CONDUIT FOR FUTURE PRIMARY SERVICE TO PAD MOUNTED 15KV SWITCH LOCATIONS SHOWN (S+C 4-COMPARTMENT LOAD BREAK SWITCH PMH-10 OR EQUAL). REFER TO DETAIL 3/EV0.00 FOR REQUIREMENTS. CONDUITS SHALL RUN FROM PAD MOUNTED SWITCH LOCATIONS BACK TO MAIN 15KV SWITCHGEAR. CONDUITS STUBBED TO THE SWITCH LOCATION SHALL BE GROUPED TOGETHER TO BE ABLE TO FIT INTO THE BOTTOM OF THE SWITCHGEAR CONDUIT WINDOW(S). REFER TO DETAIL 3/EV0.00 FOR CONDUIT SIZING REQUIREMENTS. HOUSEKEEPING PAD TO BE PROVIDED IN FUTURE WHENSWITCH IS INSTALLED.

4 PROVIDE UNDERGROUND CONDUIT FOR FUTURE PRIMARY SERVICE TO FUTURE PAD MOUNTED TRANSFORMER LOCATIONS SHOWN. PROVIDE ONE (1) 6" CONDUIT FOR EACH RUN SHOWN. CONDUIT SHALL RUN FROM PAD MOUNTED TRANSFORMER TO PAD MOUNTED SWITCH. CONDUIT SHALL BE LOCATED TO ALLOW FOR ENTRY INTO PAD MOUNTED TRANSFORMER CONDUIT WINDOW OPENING. REFER TO TABLE #3 FOR KVA RATING OF PAD MOUNTED TRANSFORMER. HOUSEKEEPING PAD TO BE PROVIDED IN FUTURE WHEN TRANSFORMER IS INSTALLED.

5 PROVIDE UNDERGROUND PRIMARY ELECTRIC SERVICE FEEDER TO BUILDING ELECTRIC SERVICE PAD MOUNTED TRANSFORMER(S). PRIMARY FEEDER SHALL BE SIZED BASED ON INCOMING UTILITY PRIMARY VOLTAGE AND BUILDING LOADS (BUILDING PAD MOUNTED TRANSFORMER SIZES). ROUTE PRIMARY FEEDER BACK TO MAIN 15KV SWITCHGEAR. THIS SCOPE IS TO BE PROVIDED AS PART OF THE INITIAL INSTALLATION TO ENERGIZE THE BUILDING.

ELECTRICAL KEY NOTES

6 FUTURE LOW VOLTAGE SWITCHBOARD LOCATION. LV SWITCHBOARD WILL BE FED FROM ADJACENT FUTURE PAD MOUNTED TRANSFORMER AND WILL CONTAIN A MAIN OVERCURRENT PROTECTIVE DEVICE AND ALL OF THE BRANCH CIRCUIT BREAKERS TO SERVE ALL OF THE EV CHARGERS FED FROM THIS LV SWITCHBOARD. LV SWITCHBOARD WILL ALSO HAVE A PORTABLE GENERATOR CONNECTION CABINET SUITABLE TO CONNECT THE ENTIRE SWITCHBOARD LOAD TO A PORTABLE GENERATOR. PROVIDE TRYSTAR CONNECTION CABINET OR EQUAL. EV CHARGER CONDUITS STUBBED TO THIS LOCATION (SEE KEYNOTE 6) SHALL BE GROUPED TOGETHER TO BE ABLE TO FIT INTO THE BOTTOM OF THE SWITCHBOARD CONDUIT WINDOW(S). REFER TO TABLE #3 FOR ESTIMATED AMPACITY RATINGS OF LVSS EQUIPMENT. HOUSEKEEPING PAD TO BE PROVIDED IN FUTURE WHEN SWITCHBOARD IS INSTALLED.

7 FUTURE COMMUNICATION SYSTEM HUB/LOAD MANAGEMENT LOCATION. PROVIDE ONE (1) 2" CONDUIT FROM FUTURE COMMUNICATION HUB LOCATION TO DEMARC ROOM IN BUILDING TO SUPPORT FUTURE COMMUNICATIONS CABLING. UP TO FOUR (4) COMMUNICATIONS HUB CONDUITS MAY BE COMBINED INTO ONE (1) 4" CONDUIT BACK TO THE DEMARC ROOM IN BUILDING. IT IS ANTICIPATED THAT THE FUTURE COMMUNICATIONS CABLING WILL BE FIBER OPTIC CABLING. CONDUIT SHALL BE SUITABLE FOR FIBER OPTIC CABLING (SWEEPING BENDS). PROVIDE 16" SQUARE BY 24" DEEP MINIMUM SIZE FLUSH GROUND MOUNTED PULLBOXES LOCATED IN LANDSCAPED AREAS (NON-TRAFFIC AREAS) SPACED NO GREATER THAN EVERY 300' TO SUPPORT PULLING OF FUTURE FIBER OPTIC CABLING. FIELD VERIFY LOCATIONS. PROVIDE TRAFFIC RATED PULLBOXES IF PULLBOXES ARE LOCATED IN TRAFFIC AREAS. INCREASE PULLBOX SIZES AS REQUIRED TO ACCOMMODATE INCREASED CONDUIT SIZES AND/OR QUANTITIES. COMMUNICATIONS HUB IS INTENDED TO BE INSTALLED ON UNISTRUT STANCHION, UNISTRUT STANCHION TO BE PROVIDED IN FUTURE WHEN HUB IS INSTALLED.

ELECTRICAL KEY NOTES

8 PROVIDE 15KV SWITCHGEAR TO SERVE BUILDING PAD MOUNTED TRANSFORMER(S) AND SIZED TO ACCOMMODATE ALL FUTURE EV CHARGER LOADS. ALL SWITCHES TO SERVE FUTURE EV CHARGER LOADS SHALL BE PROVIDED TO MINIMIZE SWITCHGEAR SHUTDOWN WHEN EV CHARGER LOADS ARE ADDED AND ENERGIZED. THIS SCOPE IS TO BE PROVIDED AS PART OF THE INITIAL INSTALLATION TO ENERGIZE THE BUILDING. HOUSEKEEPING PAD TO BE PROVIDED WHEN SWITCHGEAR IS INSTALLED.

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No. 6201059619
LICENSED PROFESSIONAL ENGINEER
01/07/2022

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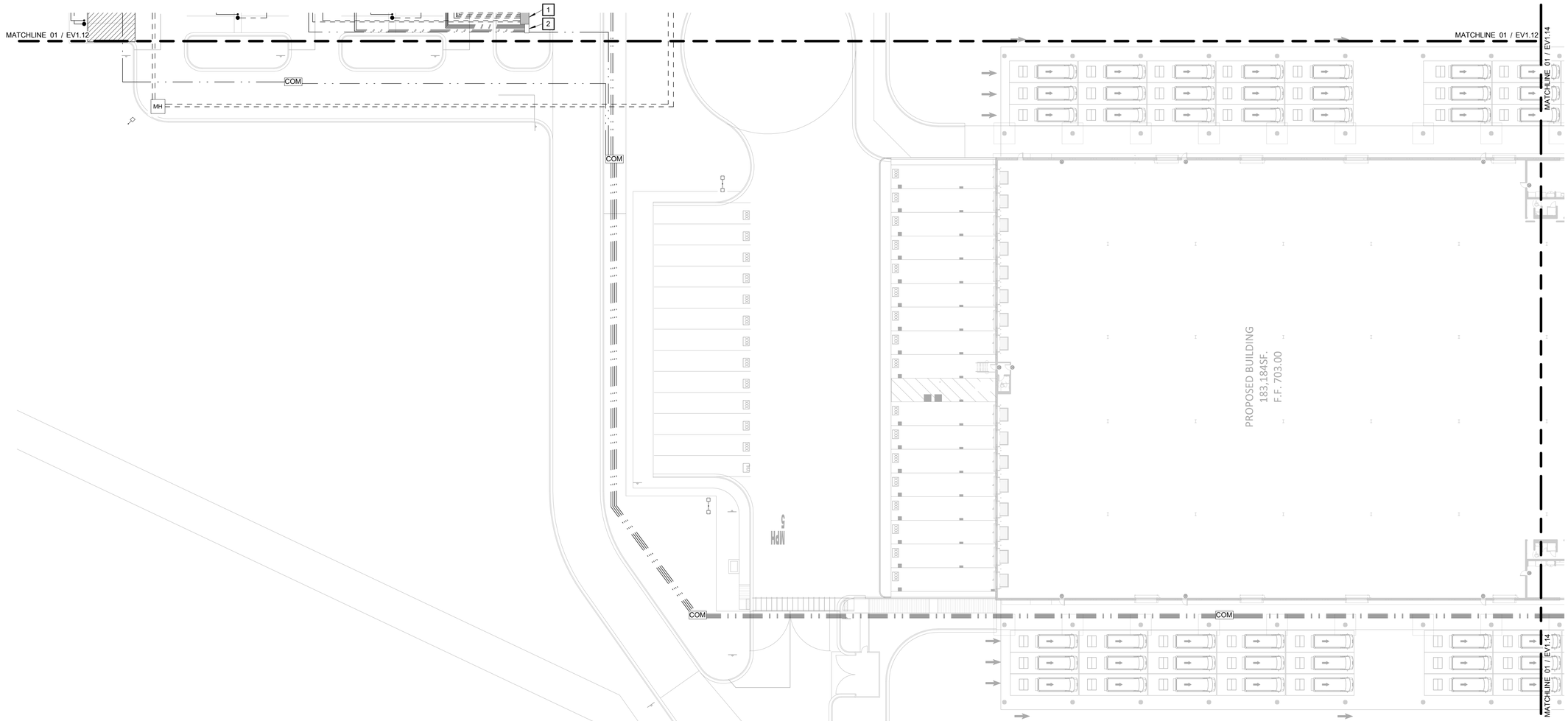
SHEET INFO

EV CHARGING PLAN - UNIT B

EV1.12



ELECTRICAL KEY NOTES

1 FUTURE LOW VOLTAGE SWITCHBOARD LOCATION. LV SWITCHBOARD WILL BE FED FROM ADJACENT FUTURE PAD MOUNTED TRANSFORMER AND WILL CONTAIN A MAIN OVERCURRENT PROTECTIVE DEVICE AND ALL OF THE BRANCH CIRCUIT BREAKERS TO SERVE ALL OF THE EV CHARGERS FED FROM THIS LV SWITCHBOARD. LV SWITCHBOARD WILL ALSO HAVE A PORTABLE GENERATOR CONNECTION CABINET SUITABLE TO CONNECT THE ENTIRE SWITCHBOARD LOAD TO A PORTABLE GENERATOR. PROVIDE TRYSTAR CONNECTION CABINET OR EQUAL. EV CHARGER CONDUITS STUBBED TO THIS LOCATION (SEE KEYNOTE 6) SHALL BE GROUPED TOGETHER TO BE ABLE TO FIT INTO THE BOTTOM OF THE SWITCHBOARD CONDUIT WINDOW(S). REFER TO TABLE #3 FOR ESTIMATED AMPACITY RATINGS OF LVSS EQUIPMENT. HOUSEKEEPING PAD TO BE PROVIDED IN FUTURE WHEN SWITCHBOARD IS INSTALLED.

2 FUTURE COMMUNICATION SYSTEM HUB/LOAD MANAGEMENT LOCATION. PROVIDE ONE (1) 2" CONDUIT FROM FUTURE COMMUNICATION HUB LOCATION TO DEMARC ROOM IN BUILDING TO SUPPORT FUTURE COMMUNICATIONS CABLING. UP TO FOUR (4) COMMUNICATIONS HUB CONDUITS MAY BE COMBINED INTO ONE (1) 4" CONDUIT BACK TO THE DEMARC ROOM IN BUILDING. IT IS ANTICIPATED THAT THE FUTURE COMMUNICATIONS CABLING WILL BE FIBER OPTIC CABLING. CONDUIT SHALL BE SUITABLE FOR FIBER OPTIC CABLING (SWEEPING BENDS). PROVIDE 16" SQUARE BY 24" DEEP MINIMUM SIZE FLUSH GROUND MOUNTED PULLBOXES LOCATED IN LANDSCAPED AREAS (NON-TRAFFIC AREAS) SPACED NO GREATER THAN EVERY 300' TO SUPPORT PULLING OF FUTURE FIBER OPTIC CABLING. FIELD VERIFY LOCATIONS. PROVIDE TRAFFIC RATED PULLBOXES IF PULLBOXES ARE LOCATED IN TRAFFIC AREAS. INCREASE PULLBOX SIZES AS REQUIRED TO ACCOMMODATE INCREASED CONDUIT SIZES AND/OR QUANTITIES. COMMUNICATIONS HUB IS INTENDED TO BE INSTALLED ON UNISTRUT STANCHION, UNISTRUT STANCHION TO BE PROVIDED IN FUTURE WHEN HUB IS INSTALLED.

01 EV CHARGING PLAN - UNIT C
1" = 30'-0"

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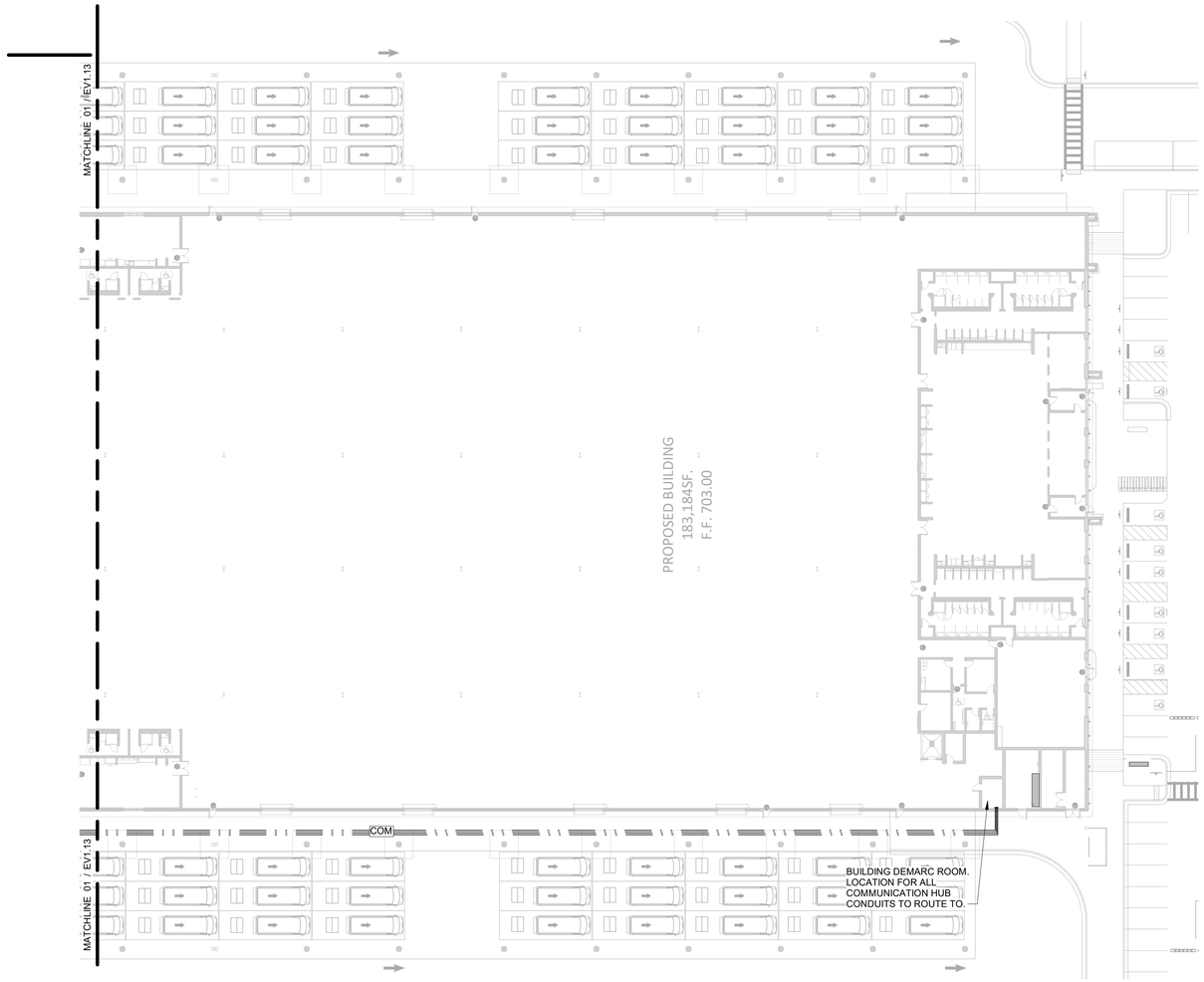
EV CHARGING PLAN - UNIT C

EV1.13



01 EV CHARGING PLAN - UNIT D

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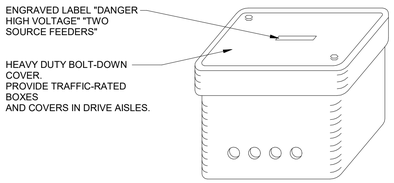
EV CHARGING PLAN - UNIT D

EV1.14



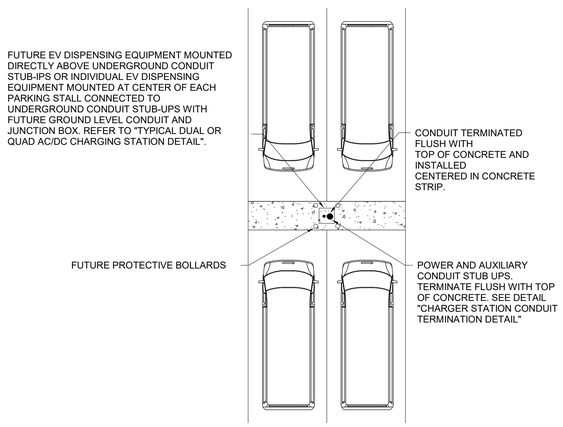
TYPICAL ELECTRICAL AND AUXILARY PULLBOX

GENERAL NOTES:

1. BOX SHALL BE RATED T8 FOR USE IN GRASSY AREAS NOT SUBJECT TO VEHICULAR TRAFFIC, OR RATED T22 FOR USE IN SIDEWALKS OR PARKING LOTS SUBJECT TO OCCASIONAL NON-DELIBERATE HEAVY VEHICULAR TRAFFIC. BOXES TO BE USED IN ROADWAYS OR AREAS FREQUENTLY SUBJECT TO HEAVY VEHICULAR TRAFFIC SHALL BE SUBMITTED TO EEOR FOR APPROVAL.
3. PROVIDE 12" CRUSHED STONE BENEATH BOX.
4. CONDUITS SHALL ENTER ON SIDES. MINIMUM BURIAL DEPTHS OF CONDUIT IS 24" BELOW FINISHED GRADE. CONDUIT KNOCKOUTS SHALL BE DRILLED OR PUNCHED ON SITE, QUANTITIES AND SIZES TO MATCH PLANS.
5. PULLBOX SIZE SHALL BE BASED ON QUANTITY OF CONDUITS SERVED AS DEFINED IN NEC. MINIMUM PULLBOX SIZES SHALL BE AS FOLLOWS:
   a. POWER PULLBOX SERVING THREE CHARGING STATIONS - 32" SQUARE X 30"D .
   b. AUXILIARY PULLBOX SERVING THREE CHARGING STATIONS - 24" SQUARE X 30" D.
   c. POWER PULLBOX SERVING FOUR CHARGING STATIONS - 36" SQUARE X 30"D .
   b. AUXILIARY PULLBOX SERVING FOUR CHARGING STATIONS - 30" SQUARE X 30" D.
   d. POWER PULLBOX SERVING FIVE CHARGING STATIONS - 42" SQUARE X 30"D .
   b. AUXILIARY PULLBOX SERVING FIVE CHARGING STATIONS - 30" SQUARE X 30" D.

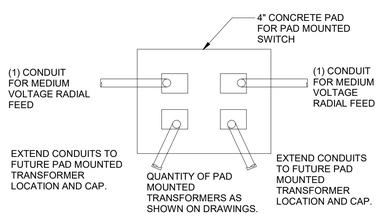
08 EV-FLUSH GROUND MOUNTED PULLBOX DETAIL

NOT TO SCALE



09 EV- VAN HEAD TO HEAD PARKING DETAIL.

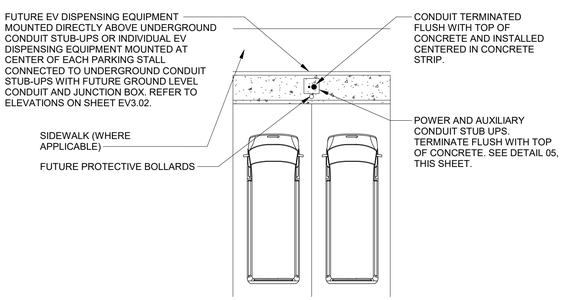
NOT TO SCALE



PLAN VIEW

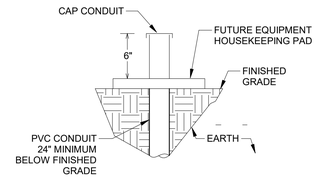
10 EV-MEDIUM VOLTAGE SWITCH - PLAN VIEW.

NOT TO SCALE



11 EV-VAN CURB PARKING DETAIL

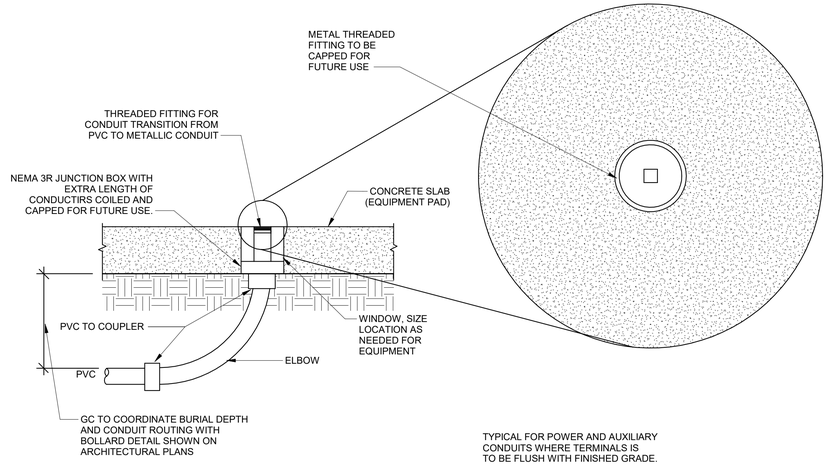
NOT TO SCALE



NOTE : CONDUIT SHALL BE PROVIDED WITH PULL CORD INSTALLED AND WITH TRACER WIRE.

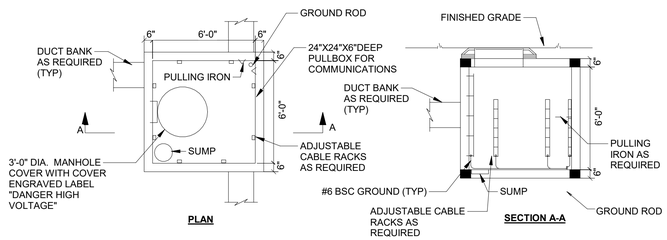
04 EV-CONDUIT STUB UP DETAIL AT ELECTRICAL DISTRIBUTION EQUIPMENT.

NOT TO SCALE



05 CHARGER STATION CONDUIT TERMINATION DETAIL.

NOT TO SCALE



GENERAL NOTES:
1. MANHOLE SHALL BE RATED T8 FOR USE IN GRASSY AREAS NOT SUBJECT TO VEHICULAR TRAFFIC, OR RATED T22 FOR USE IN SIDEWALKS OR PARKING LOTS SUBJECT TO OCCASIONAL NON-DELIBERATE HEAVY VEHICULAR TRAFFIC.

2. MANHOLES TO BE USED IN ROADWAYS OR AREAS FREQUENTLY SUBJECT TO HEAVY VEHICULAR TRAFFIC SHALL BE SUBMITTED TO EEOR FOR APPROVAL.

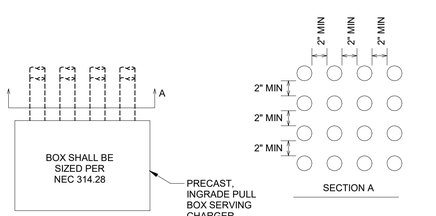
3. PROVIDE 12" CRUSHED STONE BENEATH MANHOLE.

4. CONDUITS SHALL ENTER ON SIDES. MINIMUM BURIAL DEPTHS OF CONDUIT IS 24" BELOW FINISHED GRADE. CONDUIT KNOCKOUTS SHALL BE DRILLED OR PUNCHED ON SITE, QUANTITIES AND SIZES TO MATCH PLANS.

5. MANHOLE SIZE SHALL BE BASED ON QUANTITY OF CONDUITS AND VOLTAGE SERVED AS DEFINED IN NEC

06 EV-TYPICAL MANHOLE DETAIL.

NOT TO SCALE

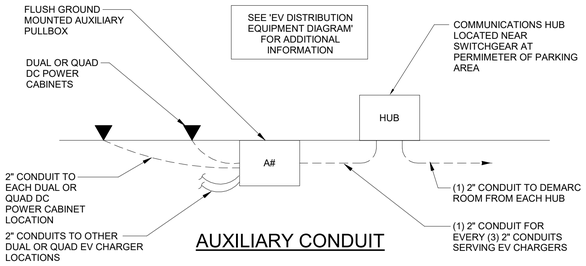


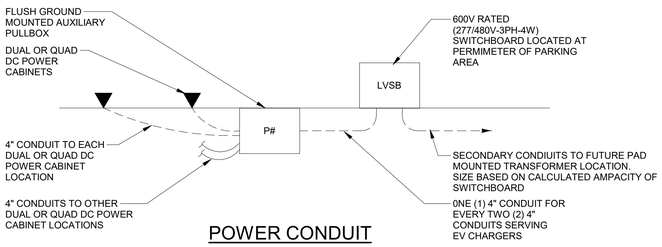
NOTE : EXACT QUANTITY OF CONDUITS AND SIZE OF PULL BOX SHALL BE SITE SPECIFIC.

NOTE : CONTRACTOR SHALL ROUTE CONDUITS INTO SIMILAR PATTERN FOR TERMINATION AT PULL BOX

07 EV CHARGER POWER AND AUXILLARY CONDUIT INSTALLATION DETAIL.

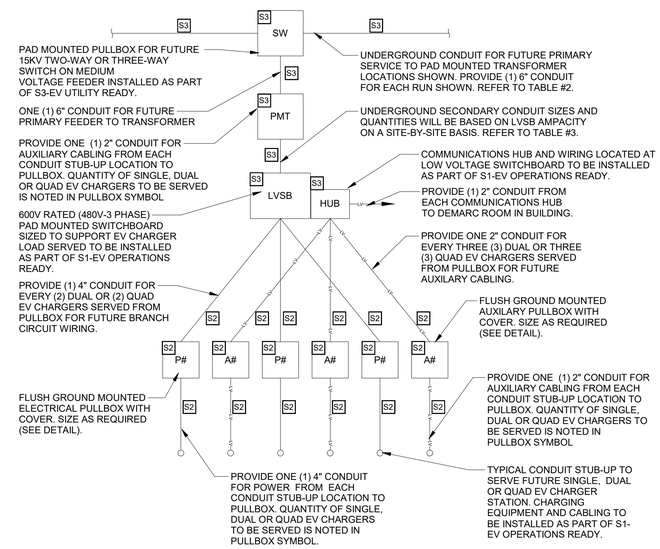
NOT TO SCALE





01 EV-TYPICAL EV CHARGER CONDUIT DETAIL.

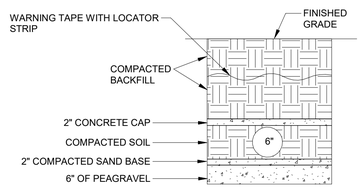
NOT TO SCALE



EV READINESS SCENARIO	CRITERIA TO ACHEIVE EV READINESS SCENARIO
S1 - EV OPERATIONS READY	INSTALLATION OF **ALL** S1, S2, AND S3 ITEMS / SCHEDULE OF SERVICES
S2 - EV CHARGER READY	INSTALLATION OF **ALL** S2 ITEMS / SCHEDULE OF SERVICES
S3 - EV UTILITY READY	INSTALLATION OF **ALL** S3 ITEMS / SCHEDULE OF SERVICES

02 EV DISTRIBUTION EQUIPMENT DIAGRAM

NOT TO SCALE



03 EV-MEDIUM VOLTAGE DUCTBANK DETAIL.

NOT TO SCALE

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PROJECT INFO

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STATE OF MICHIGAN
ADRIAN T. FRANKS
ENGINEER
No. 6201059619
LICENSED PROFESSIONAL ENGINEER
01/07/2022

SHEET RELEASES

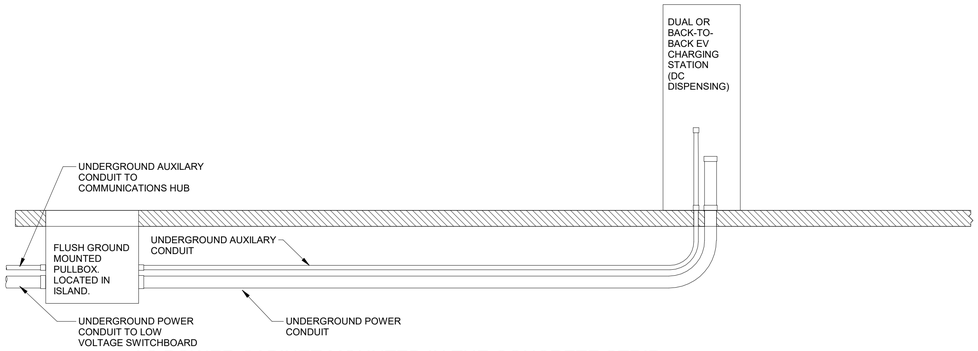
DATE	RELEASE
01/07/2022	ISSUED FOR SITE PLAN REVIEW

PM:	ELS
PA:	AAD
JOB NO:	100-2020-13
DATE:	01/07/2022

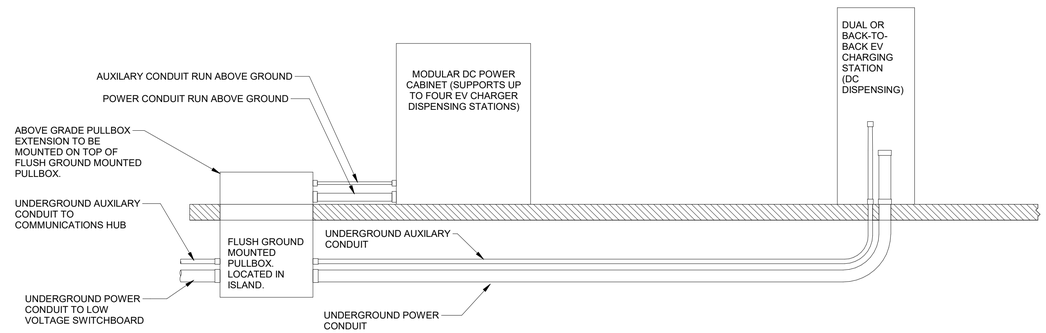
SHEET INFO

ELECTRICAL DETAILS

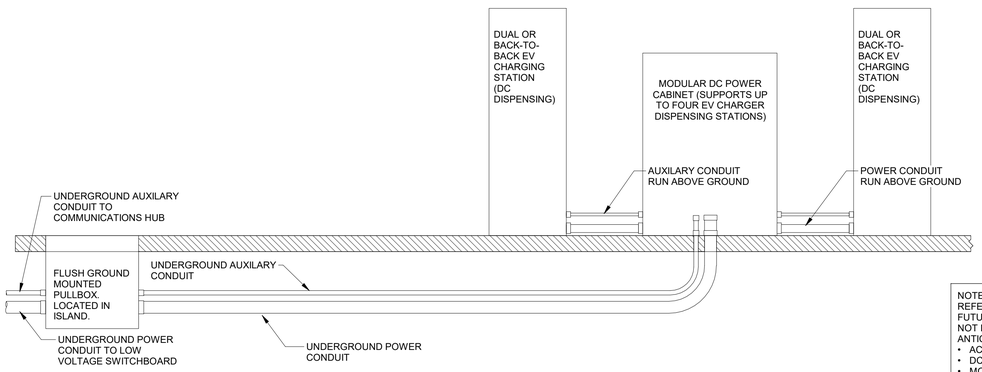
EV3.01



AC POWER CABINET MOUNTED IN THE CONCRETE STRIP BETWEEN THE PARKING STALLS OR IN THE CONCRETE STRIP ADJACENT TO THE PERIMETER PARKING STALLS



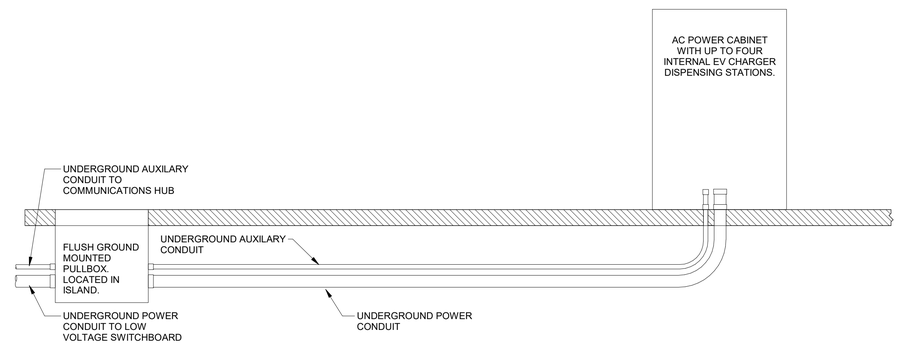
DC POWER CABINET MOUNTED IN THE PARKING STALL ADJACENT TO THE ISLANDS WITH DISPENSING STATION MOUNTED ON THE CENTER CONCRETE STRIP BETWEEN THE PARKING STALLS OR IN THE CONCRETE STRIP ADJACENT TO THE PERIMETER PARKING STALLS



DC POWER CABINET/DISPENSING STATION MOUNTED IN THE CONCRETE STRIP BETWEEN THE PARKING STALLS OR IN THE CONCRETE STRIP ADJACENT TO THE PERIMETER PARKING STALLS

NOTE: EV CHARGING EQUIPMENT IS SHOWN FOR REFERENCE ONLY TO REPRESENT THE PROPOSED FUTURE END STATE CONDITION. THIS SCOPE DOES NOT INCLUDE THE EV CHARGING EQUIPMENT. ANTICIPATED EQUIPMENT SIZES ARE AS FOLLOWS:
- AC CHARGER PEDESTAL - 26"W X 96"H X 26"L
- DC CHARGER PEDESTAL - 26"W X 96"H X 26"L
- MODULAR DC POWER CABINET - 48"W X 84"H X 48"L

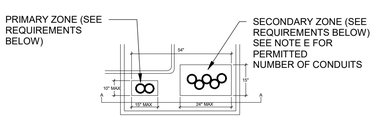
NOTE: THIS SCOPE DOES NOT INCLUDE THE FUTURE EV CHARGING EQUIPMENT. SHOWN FOR REFERENCE ONLY.

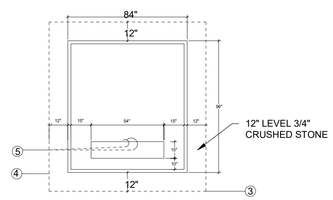


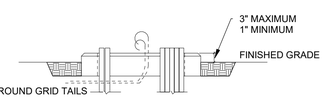
DC POWER CABINET/DISPENSING STATION MOUNTED IN THE CONCRETE STRIP BETWEEN THE PARKING STALLS OR IN THE CONCRETE STRIP ADJACENT TO THE PERIMETER PARKING STALLS

01 EV-TYPICAL DUAL OR QUAD AC EV CHARGING STATION DETAIL

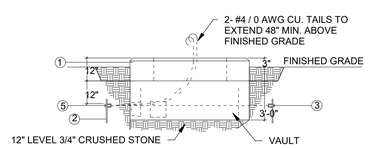
NOT TO SCALE







SECTION A - A



REQUIREMENTS:

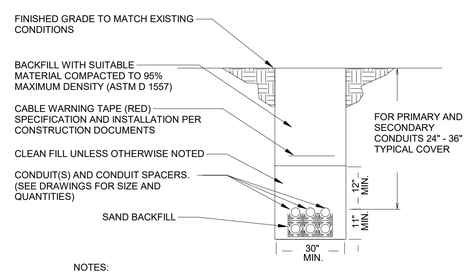
PRIMARY ZONE:
A. THE PRIMARY ZONE IS RESTRICTED TO THE AREA SHOWN ABOVE & WILL CONTAIN THE CONDUCTORS FROM THE TWO 5" GALVANIZED STEEL CONDUITS.
B. THE CONDUIT SHALL ENTER THE VAULT HORIZONTALLY & SHALL BE GALVANIZED STEEL.
C. THE CONDUITS SHALL EXTEND A MINIMUM OF 1" TO A MAXIMUM OF 3" WITHIN THE VAULT & SHALL HAVE THREADED ENDS.
D. EACH CONDUIT SHALL BE PROVIDED WITH A GROUNDING TYPE CHAFE BUSHING & SHALL BE PLUGGED UNTIL THE PRIMARY CABLES ARE INSTALLED.

SECONDARY ZONE:
A. THE SECONDARY ZONE IS RESTRICTED TO THE AREA SHOWN ABOVE & WILL CONTAIN THE CONDUCTORS FROM THE (5) 4" GALVANIZED STEEL CONDUITS.
B. THE CONDUIT SHALL ENTER THE VAULT HORIZONTALLY & SHALL BE GALVANIZED STEEL.
C. THE CONDUITS SHALL EXTEND A MINIMUM OF 1" TO MAXIMUM OF 3" WITHIN THE VAULT; METAL CONDUITS SHALL HAVE THREADED ENDS.
D. METAL CONDUITS SHALL BE PROVIDED WITH GROUPING TYPE CHAFE BUSHINGS & EACH CONDUIT SHALL BE PLUGGED UNTIL THE SECONDARY CABLES ARE INSTALLED.

LIST OF MATERIALS		
ITEM	QTY.	DESCRIPTION
1	1	PRECAST FOUNDATION 84" X 96"
2	4	ROD GROUND GALVANIZED STEEL 5/8" x 8'
3	4	CONNECTOR GROUND 4 / 0 WIRE - 5/8" GALV. ROD
4	60'-0"	WIRE # 4/0, 19 STRAND BARE COPPER
5	1	CONNECTOR "COPPER BUGS" 4 / 0 SOLID & STRANDED

04 EV-TYPICAL 3 PHASE PADMOUNT TRANSFORMER PAD AND VAULT DETAIL.

NOT TO SCALE

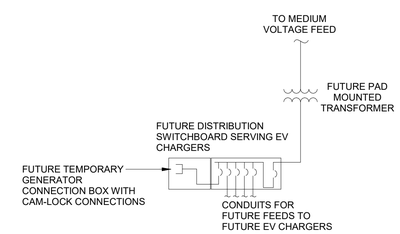


NOTES:

1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.
3. PROVIDE SEPARATION OF CONDUITS OF DIFFERENT SYSTEMS (I.E., ELECTRIC, CATV & TELEPHONE) PER UTILITY COMPANY REQUIREMENTS. COORDINATE ROUTING OF CONDUITS WITH OTHER TRADES TO MAINTAIN REQUIRED SEPARATION WITH GAS, WATER, ETC., SERVICES.
4. TRENCH SHALL MEET CONSTRUCTION DOCUMENTS.
5. PROVIDE CONDUIT SPACERS 5' O.C. ALL ELBOWS SHALL BE INDEPENDENTLY SUPPORTED.

03 EV-TYPICAL DUCT BANK DETAIL.

NOT TO SCALE



NOTE : TRANSFORMER SIZE, FEEDERS, AND EQUIPMENT SHALL BE SIZED PER SITE SPECIFIC LOAD

02 EV-FUTURE STANBY GENERATOR - EV BACKUP.

NOT TO SCALE

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PROJECT INFO

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SHEET RELEASES

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PM:	ELS
PA:	AAD
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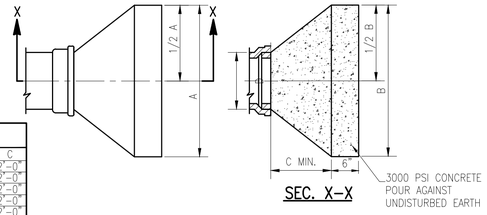
DATE:	01/07/2022

SHEET INFO

ELECTRICAL DETAILS

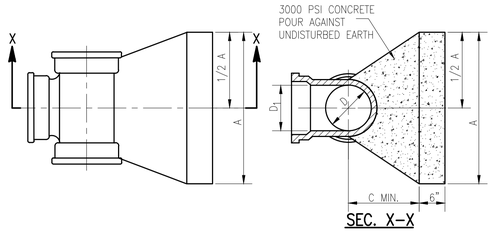
EV3.02



DIA. OF WATER MAIN	THRUST BLOCK		
D	A	B	C
6"	2'–0"	18"	2'–0"
8"	2'–6"	2'–0"	2'–0"
12"	3'–6"	3'–0"	2'–0"
16"	6'–0"	3'–6"	2'–0"
20"	8'–0"	4'–0"	2'–0"
24"	11'–0"	4'–0"	2'–0"

THRUST BLOCK AT PLUG OR HYDRANT SHOE

NOT TO SCALE

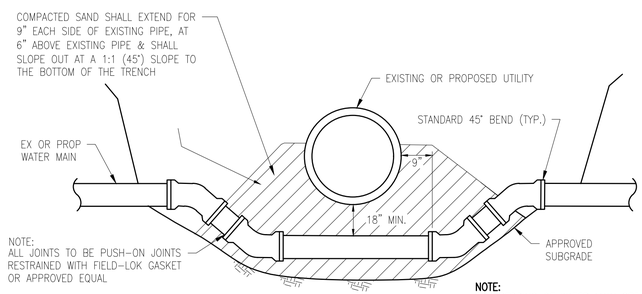


DIA. OF TEE		THRUST BLOCK	
D	D_1	A	C
8"	8"	2'–6"	2'0"
12"	8"	2'–6"	2'0"
16"	8"	2'–6"	2'0"
12"	12"	3'–6"	2'0"
16"	12"	3'–6"	2'0"
20"	12"	3'–6"	2'0"
24"	12"	3'–6"	2'0"
16"	16"	6'–0"	2'3"
20"	16"	6'–0"	2'3"
24"	16"	6'–0"	2'3"

THRUST BLOCK AT TAPPING SLEEVE TEE

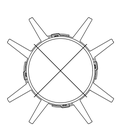
NOT TO SCALE

NOTE:
CONCRETE THRUST BLOCKS WILL NOT BE PERMITTED EXCEPT BEHIND HYDRANT SHOES AND TAPPING SLEEVES. USE OF CONCRETE THRUST BLOCKS IN OTHER LOCATIONS WILL NOT BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF YCUA. ALL OTHER VERTICAL AND HORIZONTAL BENDS SHALL BE RESTRAINED WITH FIELD–LOK GASKETS OR APPROVED MECHANICAL JOINTS.



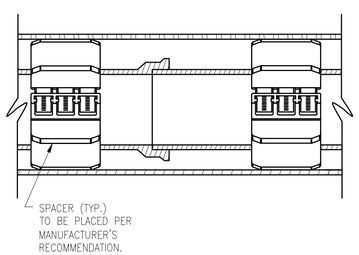
WATER MAIN LOWERING

NOT TO SCALE



SPACER END VIEW

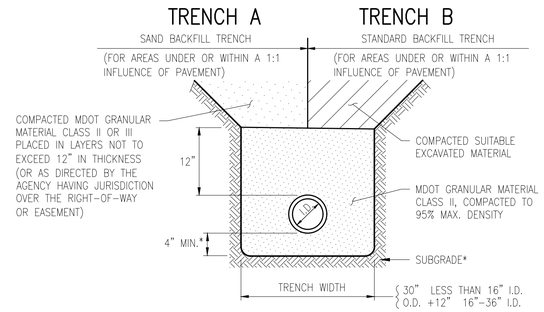
NOT TO SCALE



STANDARD CASING SECTION

NOT TO SCALE

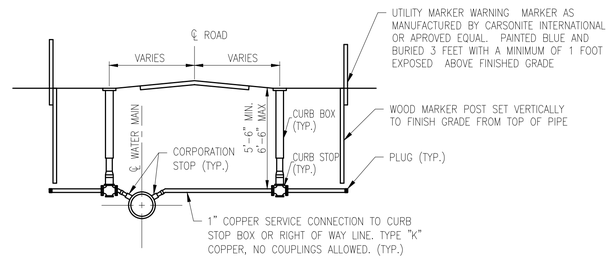
NOTES:
1. SPACERS FOR PLACEMENT IN THE ANNULAR SPACE BETWEEN THE CARRIER PIPE AND A CASING PIPE SHALL BE RANGER II AS MANUFACTURED BY PSI OR APPROVED EQUAL.
2. END SEALS SHALL BE MODEL C RUBBER SEAL WITH STAINLESS STEEL BANDS AS MANUFACTURED BY PSI OR APPROVED EQUAL.



BEDDING AND TRENCH BACKFILL DETAIL FOR WATER MAIN

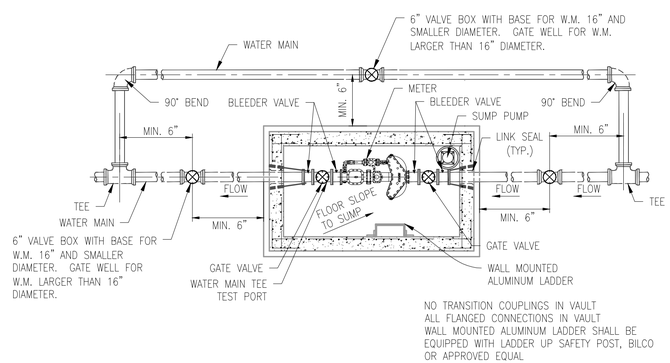
NOT TO SCALE

*NOTE: IF THE EXISTING SUBGRADE MATERIAL MEETS THE REQUIREMENTS FOR MDOT GRANULAR MATERIAL CLASS II (MINIMUM 4" THICK), THEN THE WATER MAIN MAY BE LAID DIRECTLY ON THE CONPACTED EXISTING SUBGRADE MATERIAL.



TYPICAL WATER SERVICE

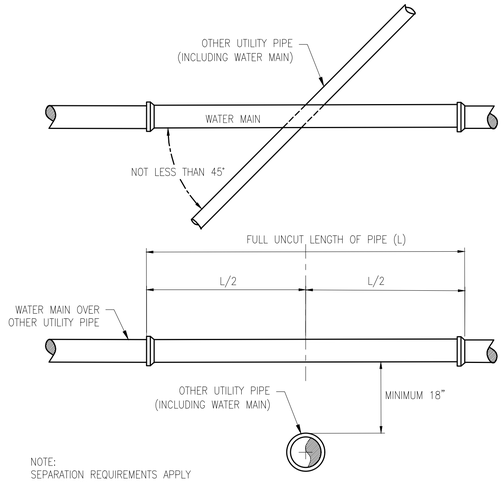
NOT TO SCALE



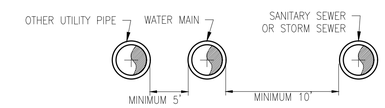
MASTER METER VAULT CONFIGURATION (WITHOUT COVER)

NOT TO SCALE

NOTES:
1. WHERE POSSIBLE THE METER VAULT SHALL BE LOCATED AWAY FROM TRAFFIC AREAS, ROADS, PARKING LOTS, ETC.
2. THE ACCESS HATCH SHALL BE SIZED LARGE ENOUGH TO ACCOMMODATE REMOVAL OF THE LARGEST METER OR THE LARGEST APPURTENANCE FOR MAINTENANCE PURPOSES. THE HATCH SHALL BE MANUFACTURED BY THE BILCO COMPANY. METER VAULT HATCH SHALL BE WATER TIGHT.
3. THE METER VAULT FLOOR SHALL BE SLOPED TO THE SUMP.
4. ELECTRICAL SERVICE SHALL BE SUPPLIED TO THE VAULT.



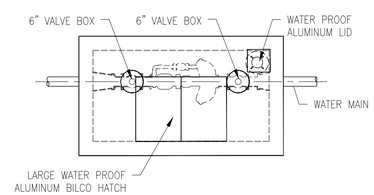
VERTICAL SEPARATION



HORIZONTAL SEPARATION

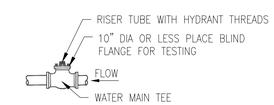
WATER MAIN CROSSING OTHER UTILITIES

NOT TO SCALE



MASTER METER VAULT CONFIGURATION WITH COVER

NOT TO SCALE



TEST PORT

PIPE DIA	TEST PORT SIZE
6"	6"
8"	8"
10"	10"
12"	10"
16"	10"

Know what's **below.**
Call before you dig.

OHM

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STANDARD WATER MAIN DETAILS

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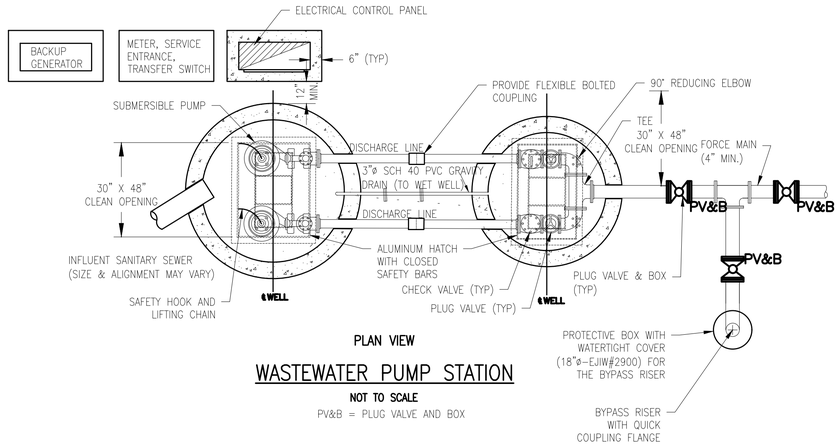
2777 STATE ROAD
YPSILANTI, MICHIGAN 48198–9112
(734) 484–4600
FAX: (734) 544–7221
WWW.YCUA.ORG
YCUA ENVIRONMENTAL LEADERS

DATE	SCALE	SHEET
09/25/19	NO SCALE	

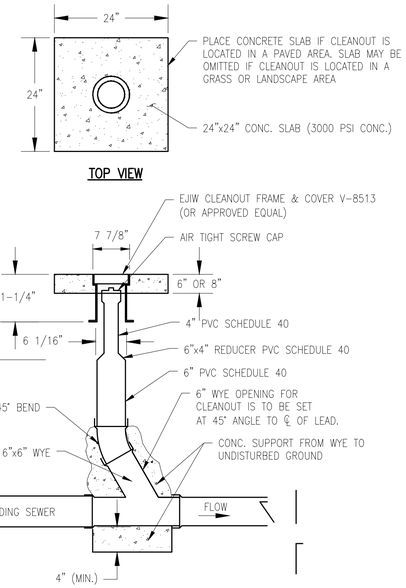


PLAN VIEW

WASTEWATER PUMP STATION

NOT TO SCALE

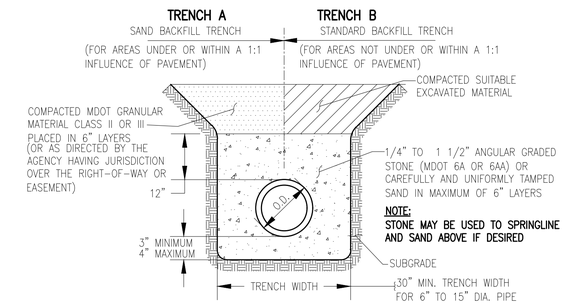
PV&B = PLUG VALVE AND BOX



ELEVATION

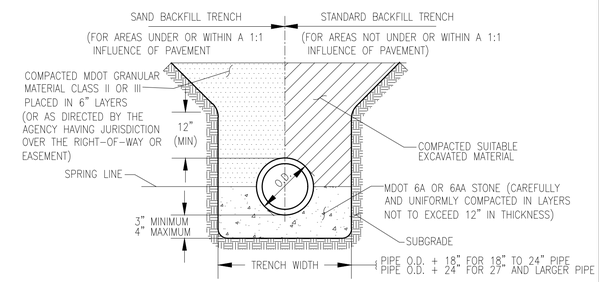
SANITARY SEWER CLEANOUT

NOT TO SCALE



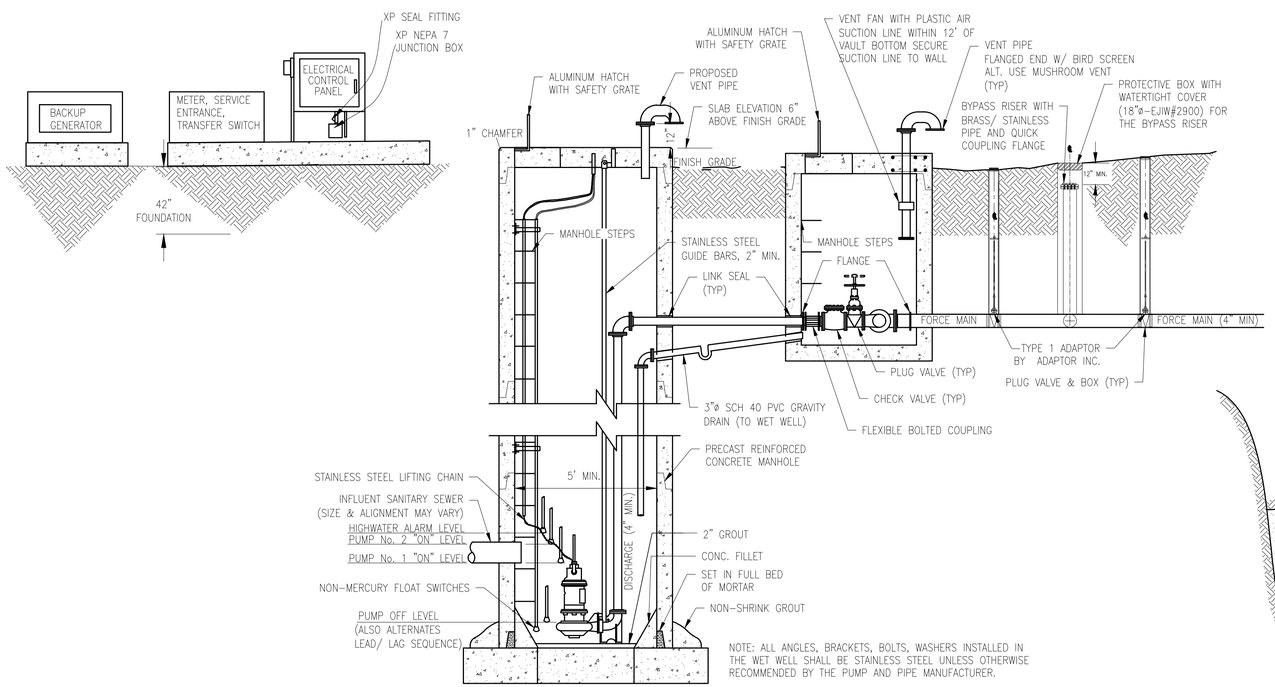
FLEXIBLE PIPE (8" TO 15" DIA SOLID WALL PVC PIPE) STANDARD BEDDING AND TRENCH BACKFILL DETAIL

NOT TO SCALE



RIGID PIPE (18" DIAMETER AND LARGER) STANDARD BEDDING AND TRENCH BACKFILL DETAIL

NOT TO SCALE



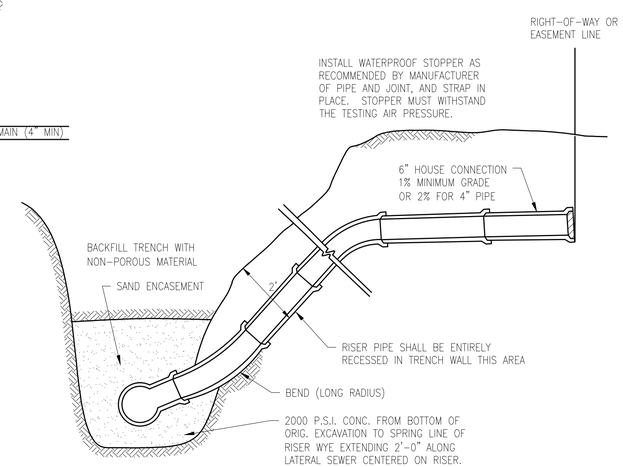
NOTE: ALL ANGLES, BRACKETS, BOLTS, WASHERS INSTALLED IN THE WET WELL SHALL BE STAINLESS STEEL UNLESS OTHERWISE RECOMMENDED BY THE PUMP AND PIPE MANUFACTURER.

PROFILE VIEW

WASTEWATER PUMP STATION

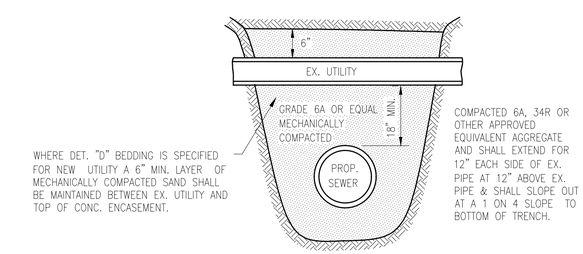
NOT TO SCALE

DETAILS ARE FOR LAYOUT AND GENERALITIES ONLY. THE SPECIFIC COMPONENTS AND EXACT DETAILS MUST BE IDENTIFIED OR CREATED ON A CASE BY CASE BASIS THROUGH A DETAILED SUBMITTAL REVIEW PROCESS.



BUILDING SEWER

NOT TO SCALE



STANDARD PIPE SUPPORT

SANITARY OR STORM

NOT TO SCALE

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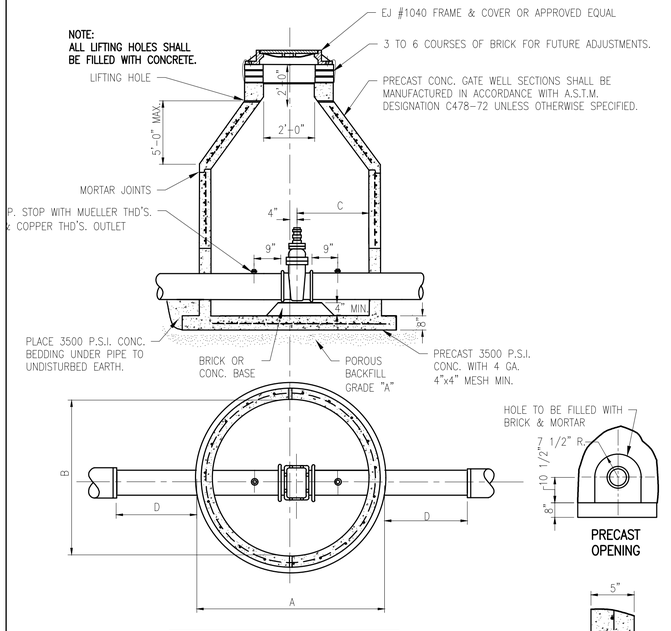
YCUA ENVIRONMENTAL LEADERS

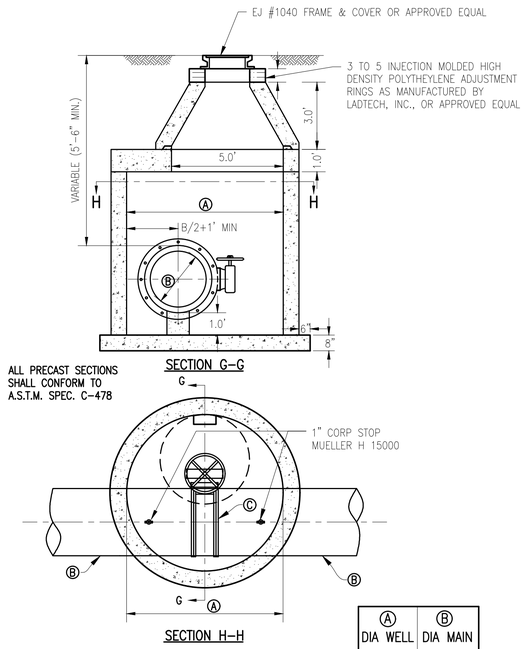
DATE	SCALE	SHEET
10/25/19	NO SCALE	



SIZE	A	B	C	D
8"	5'-0"	4'-0"	2'-2"	——
12"	5'-6"	4'-6"	2'-5"	——
16"	6'-0"	5'-6"	2'-8"	3'-0" MIN.* 13'-0" MAX.

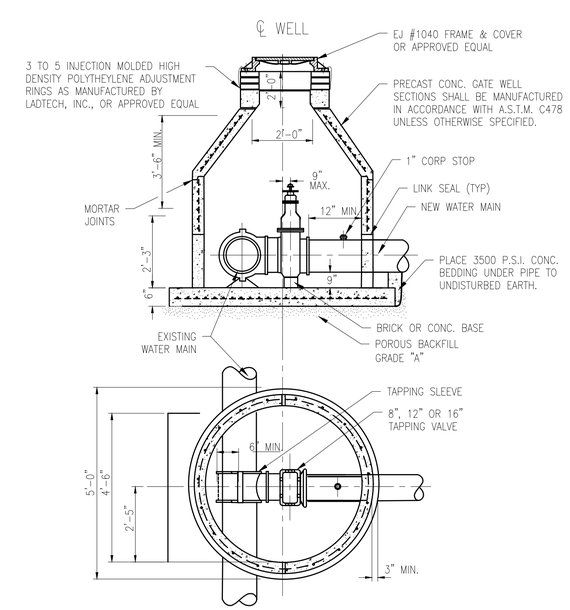
* DUCTILE IRON PIPE

STANDARD PRECAST GATE VALVE & WELL
(CONCENTRIC)

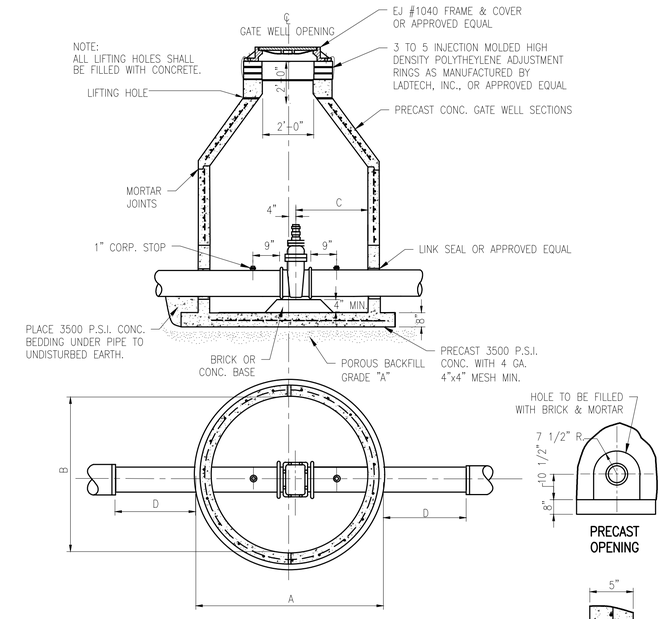


Ⓐ DIA WELL	Ⓑ DIA MAIN
7'-0"	20"
7'-0"	24"
8'-0"	30"
8'-0"	36"

BUTTERFLY VALVE AND WELL
(CONCENTRIC)
NOT TO SCALE



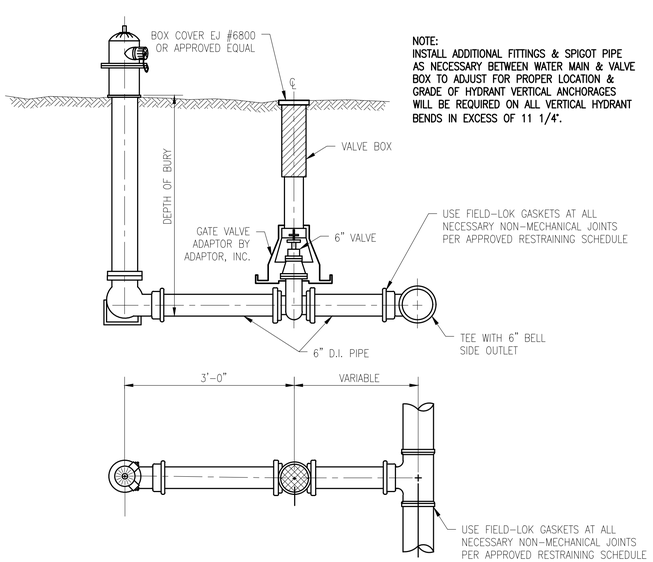
TAPPING SLEEVE, VALVE & WELL
(CONCENTRIC)
NOT TO SCALE



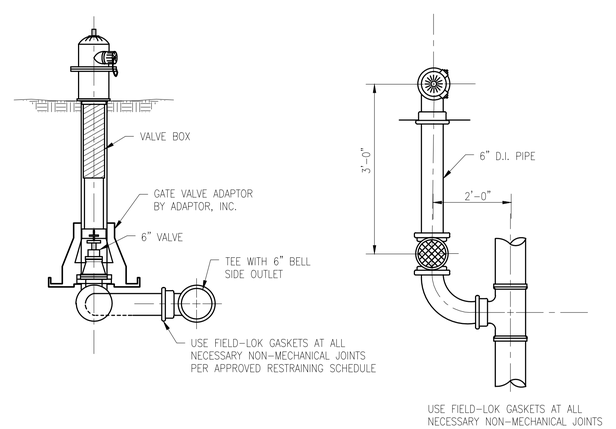
WM	A	B	C	D
8"	5'-0"	4'-0"	2'-2"	——
12"	5'-6"	4'-6"	2'-5"	——
16"	6'-0"	5'-6"	2'-8"	3'-0" MIN.* 13'-0" MAX.

* DUCTILE IRON PIPE

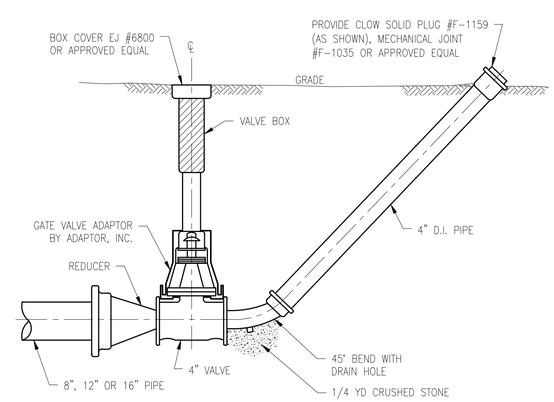
GATE VALVE & WELL
(CONCENTRIC)
NOT TO SCALE



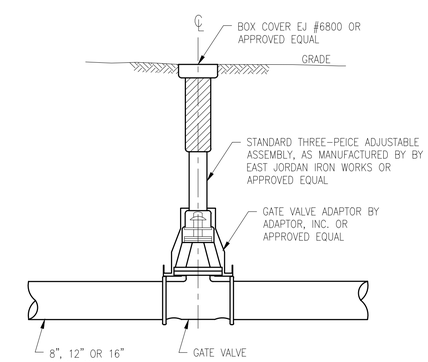
STANDARD HYDRANT SETTING
NOT TO SCALE



CLOSE COUPLE HYDRANT SETTING
NOT TO SCALE



4" BLOWOFF
NOT TO SCALE



GATE VALVE & BOX
NOT TO SCALE

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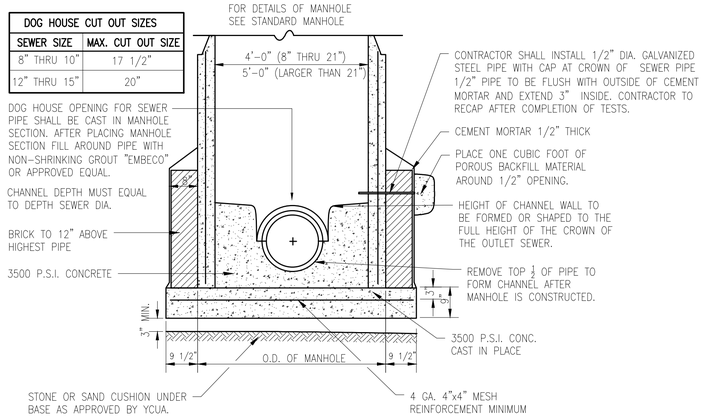
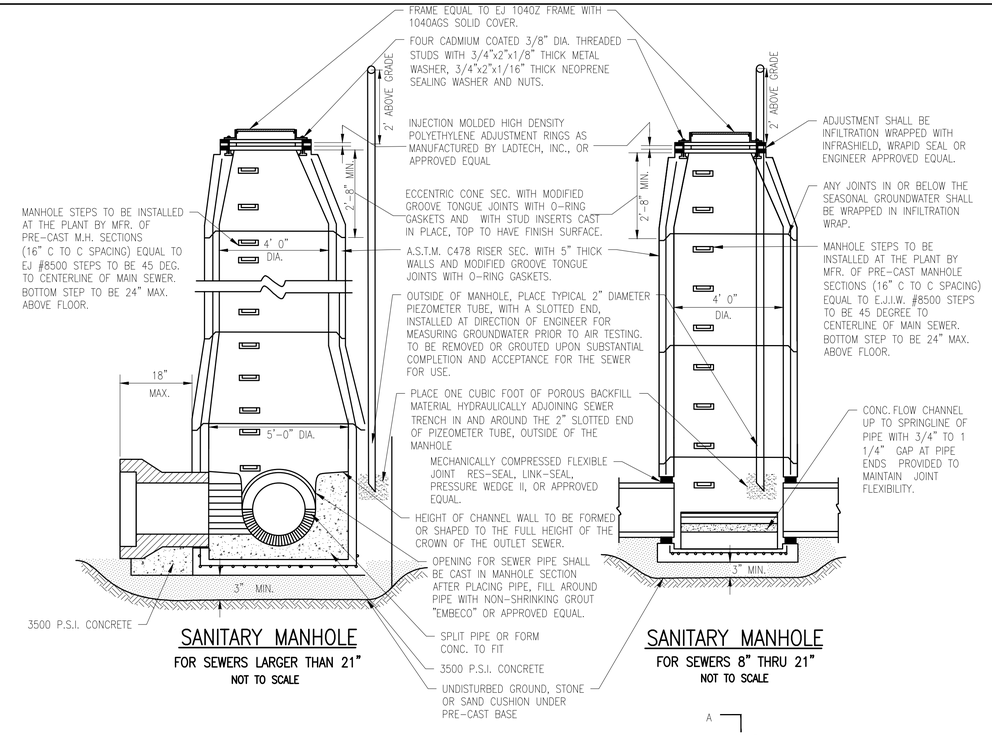
DATE	SCALE	SHEET
09/25/19	NO SCALE	

DOG HOUSE CUT OUT SIZES	
SEWER SIZE	MAX. CUT OUT SIZE
8" THRU 10"	17 1/2"
12" THRU 15"	20"

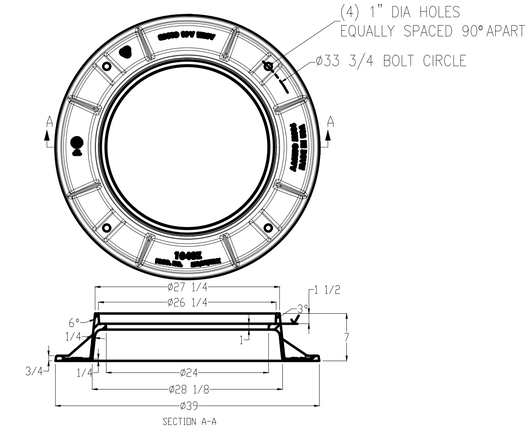


SANITARY MANHOLE
ON EXISTING SEWERS 8" THRU 42"
NOT TO SCALE

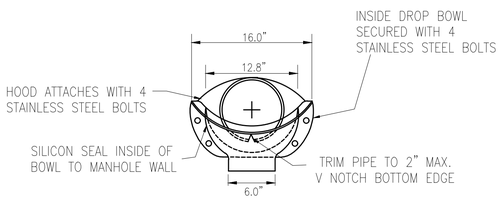


SANITARY MANHOLE
FOR SEWERS LARGER THAN 21"
NOT TO SCALE

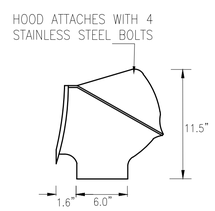
SANITARY MANHOLE
FOR SEWERS 8" THRU 21"
NOT TO SCALE



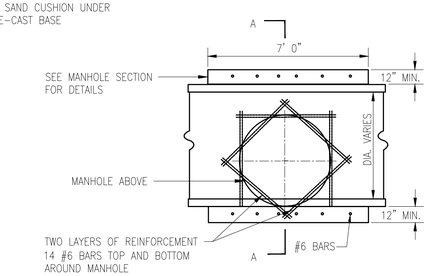
1040Z FRAME



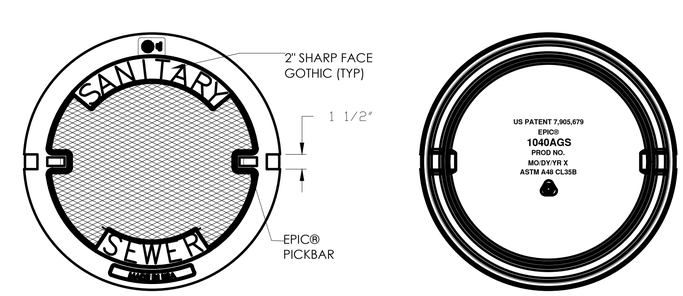
DROP BOWL MOUNTING POSITION



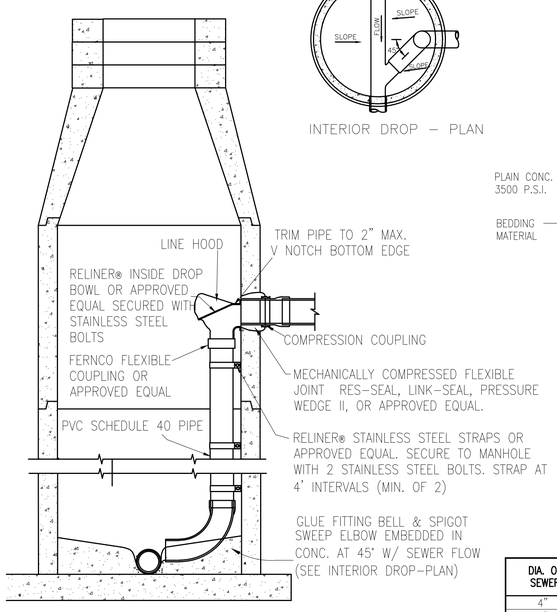
DROP BOWL WITH LINE HOOD



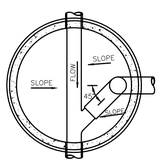
MANHOLE PLAN
48" & LARGER SEWERS
NOT TO SCALE



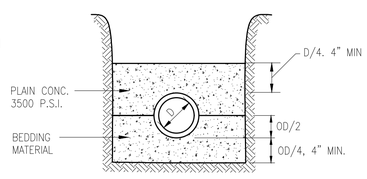
BOTTOM VIEW



INTERIOR DROP CONNECTION
NOT TO SCALE

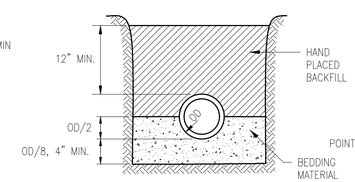


INTERIOR DROP – PLAN



LOAD FACTORS
2.8 PLAIN CONC.
OD + 8" MIN.
11/4 OD

CLASS A



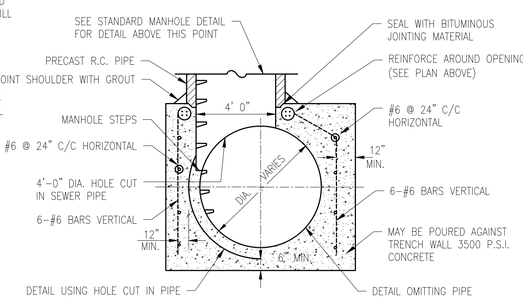
LOAD FACTOR
1.9

CLASS B

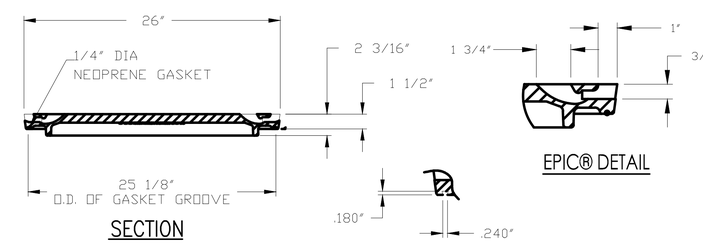
MAX. WIDTH OF TRENCH 12" ABOVE TOP OF PIPE
6" THRU 12" PIPE 30" WIDE
15" THRU 36" PIPE – OD+16"
42" THRU 60" PIPE – OD+20"
OVER 60" PIPE OUTSIDE DIA. OF PIPE+24"
MIN. WIDTH OF TRENCH 12" ABOVE THE TOP OF THE PIPE SHALL BE 6" ON EACH SIDE OF PIPE.

PIPE BEDDING DETAILS

DIA. OF SEWER	DIA. OF DROP CONNECTION
4"	4"
6"	4"
8"	6"
10"	8"



MANHOLE SECTION
48" & LARGER SEWERS
NOT TO SCALE



SECTION

EPIC® DETAIL

GROOVE DETAIL

1040 AGS COVER

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DATE	SCALE	SHEET
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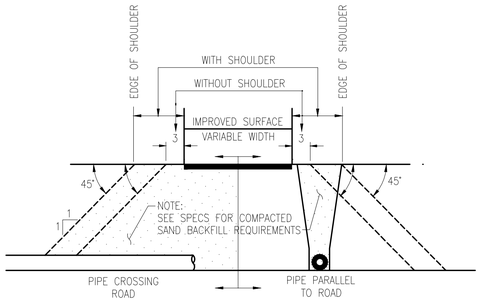
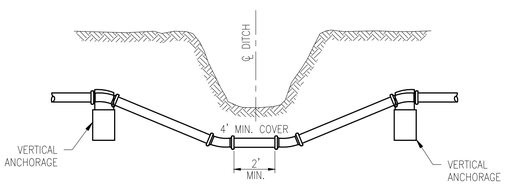


BACKFILL IN THE AREA OF STREETS, ALLEYS SIDEWALKS, DRIVES & PARKING LOTS

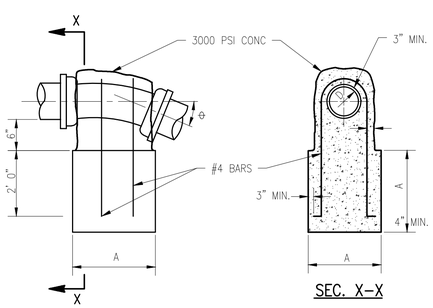
NOT TO SCALE



USE FIELD-LOK GASKETS AT ALL NECESSARY NON-MECHANICAL JOINTS PER APPROVED RESTRAINING SCHEDULE

STANDARD DITCH CROSSING

NOT TO SCALE

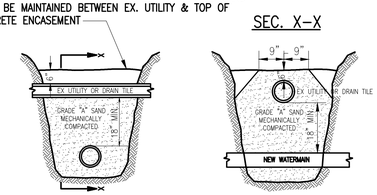


DETAIL OF VERTICAL ANCHORAGE

NOT TO SCALE

DIA. OF WATER MAIN	BEND	A	NUMBER OF BARS
D	Φ		
6"	22 1/2°	2'-0"	2
	45°	3'-3"	2
8"	22 1/2°	3'-3"	2
	45°	4'-0"	3
12"	11 1/4°	3'-3"	2
	22 1/2°	4'-0"	3
16"	11 1/4°	3'-3"	2
	22 1/2°	4'-0"	3
20"	11 1/4°	4'-0"	2
	22 1/2°	5'-0"	3
24"	11 1/4°	4'-0"	2
	22 1/2°	5'-0"	3

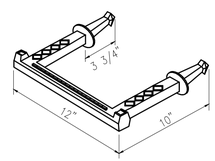
NOTE:
WHERE CONCRETE ENCASEMENT IS SPECIFIED FOR NEW UTILITY A 6" MINIMUM LAYER OF MECHANICALLY COMPACTED SAND SHALL BE MAINTAINED BETWEEN EX. UTILITY & TOP OF CONCRETE ENCASEMENT



COMPACTED SAND SHALL EXTEND FOR 9" EACH SIDE OF EXISTING PIPE, AT 6" ABOVE EXISTING PIPE & SHALL SLOPE OUT AT A 1:1 (45°) SLOPE TO THE BOTTOM OF THE TRENCH

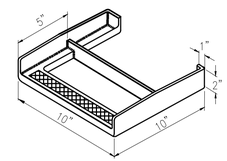
STANDARD PIPE SUPPORT

NOT TO SCALE



MANHOLE STEP

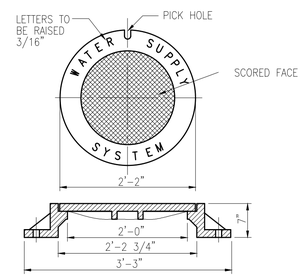
M.A. PSI-375
USE AS REQUIRED



STANDARD MANHOLE STEP

EJ 8500
USE AS REQUIRED

INSTALLED IN ECCENTRIC WELLS ONLY.
CONCENTRIC WELLS WILL NOT BE INSTALLED WITH STEPS.



STANDARD FRAME & COVER

EJ #1040
USE AS REQUIRED

PIPE RESTRAINT SCHEDULE

THE FOLLOWING TABLE IS A JOINT RESTRAINT SCHEDULE (DIPRA) FOR GROUND-BURIED DUCTILE IRON OR PVC PIPE. LENGTHS OF PIPE RESTRAINT ARE GIVEN IN FEET.

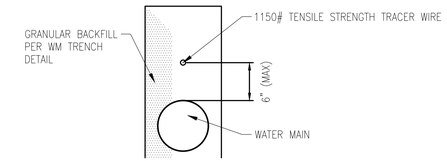
PIPE DIAMETER	TEES, 90°, PLUGS	45° BENDS	22 ½° BENDS	REDUCERS
6"	40	25	25	30
8"	55	25	25	30
12"	80	35	25	55
16"	100	40	25	60
24"	135	56	25	65

BASED UPON

INTERNAL PRESSURE:	180
PIPE DEPTH:	5
BEDDING CLASS:	TYPE 4
SOIL TYPE:	GOOD SAND
SAFETY FACTOR:	2

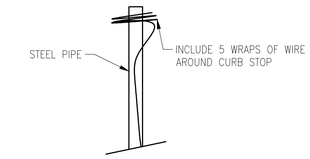
1. IF PIPE DIAMETER IS NOT LISTED IN THIS TABLE; THE NEXT LARGEST PIPE SHALL BE USED. THIS TABLE IS BASED ON A TEST PRESSURE OF 180 PSI (OPERATING PRESSURE PLUS WATER HAMMER).
2. FOR OTHER TEST PRESSURES, ALL VALUES TO BE INCREASED OR DECREASED PROPORTIONALLY. THE VALUES PROVIDED OF RESTRAINT LENGTH ARE IN EACH DIRECTION FROM THE POINT OF DEFLECTION OR TERMINATION EXCEPT FOR TEES, AT WHICH ONLY THE BRANCH IN THE DIRECTION OF THE STEM.
3. IF TIE RODS ARE USED, USE FOUR RODS MINIMUM AND ADD 1/8 INCH TO BAR DIAMETER AS CORROSION ALLOWANCE. SIZE REDUCTION IS BASED UPON THE PIPE DIAMETER SHOWN IN THIS TABLE.
4. MANUFACTURER'S RESTRAINT SCHEDULE AND SPECIFIC SITE CONDITIONS MAY MODIFY THE ABOVE SCHEDULE. ANY ALTERNATIVE SCHEDULE SHALL BE SUBMITTED TO YCUA FOR APPROVAL.

TRACER WIRE DETAILS



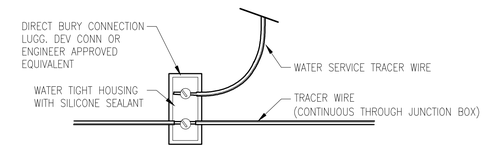
OPEN CUT MAIN LINE TRENCH

NOT TO SCALE



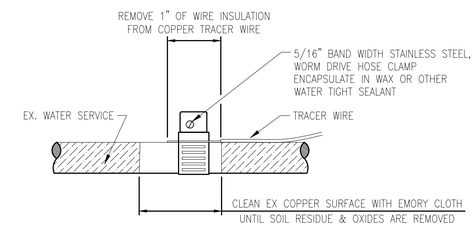
CURB BOX WIRE COIL

NOT TO SCALE



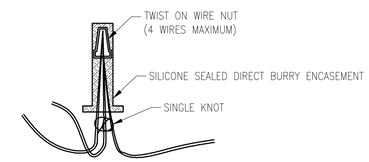
MAIN LINE JUNCTION BOX

NOT TO SCALE



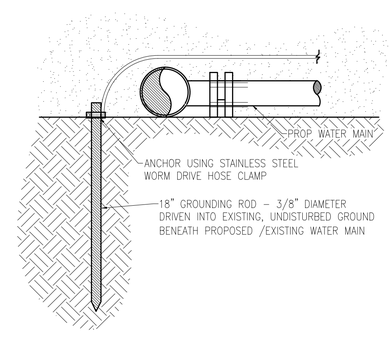
WATER SERVICE TERMINATION

NOT TO SCALE



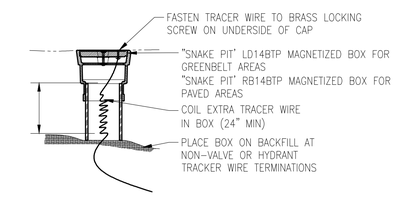
SPLICE CONNECTOR

NOT TO SCALE



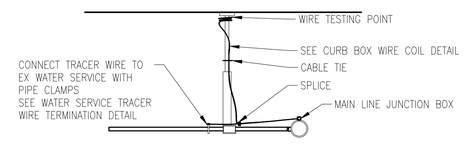
GROUNDING ROD TERMINATION

NOT TO SCALE



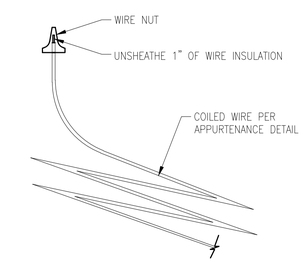
TRACER WIRE TEST POINT

NOT TO SCALE



CURB STOP CONNECTION

NOT TO SCALE



WIRE TESTING POINT

NOT TO SCALE

811
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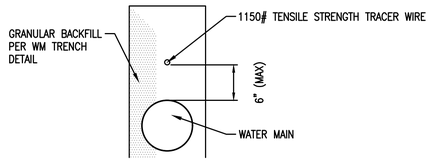
YPSILANTI COMMUNITY UTILITIES AUTHORITY
2777 STATE ROAD
YPSILANTI, MICHIGAN 48198-9112
(734) 484-4600
FAX: (734) 544-7221
WWW.YCUA.ORG
YCUA ENVIRONMENTAL LEADERS

DATE	SCALE	SHEET
09/25/19	NO SCALE	

TRACER WIRE SHALL BE INCLUDED WITH ALL PVC WATER MAIN INSTALLATIONS



OPEN CUT MAIN LINE TRENCH
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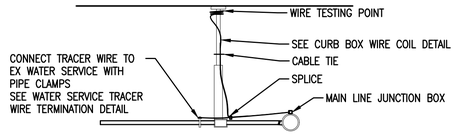

CURB STOP CONNECTION
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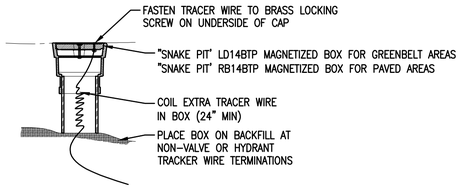

TRACER WIRE TEST POINT
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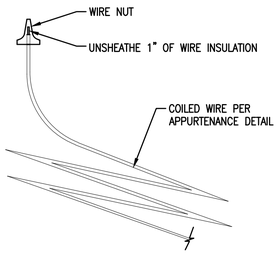

WIRE TESTING POINT
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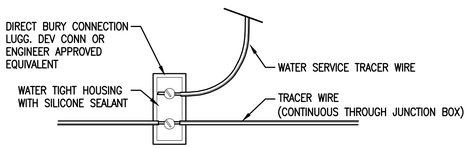

MAIN LINE JUNCTION BOX
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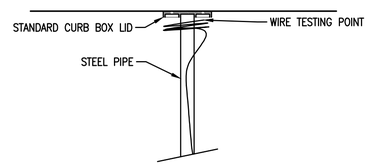

CURB BOX WIRE COIL
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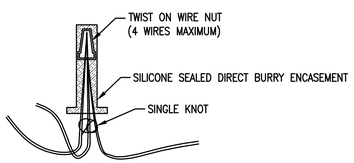

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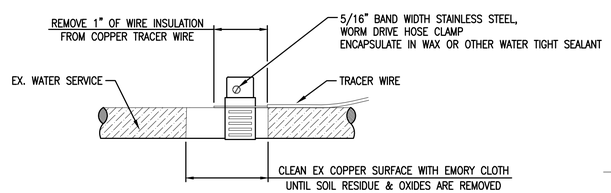
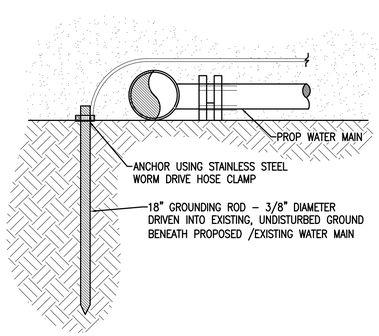


WATER SERVICE TERMINATION
N.T.S.



GROUNDING ROD TERMINATION
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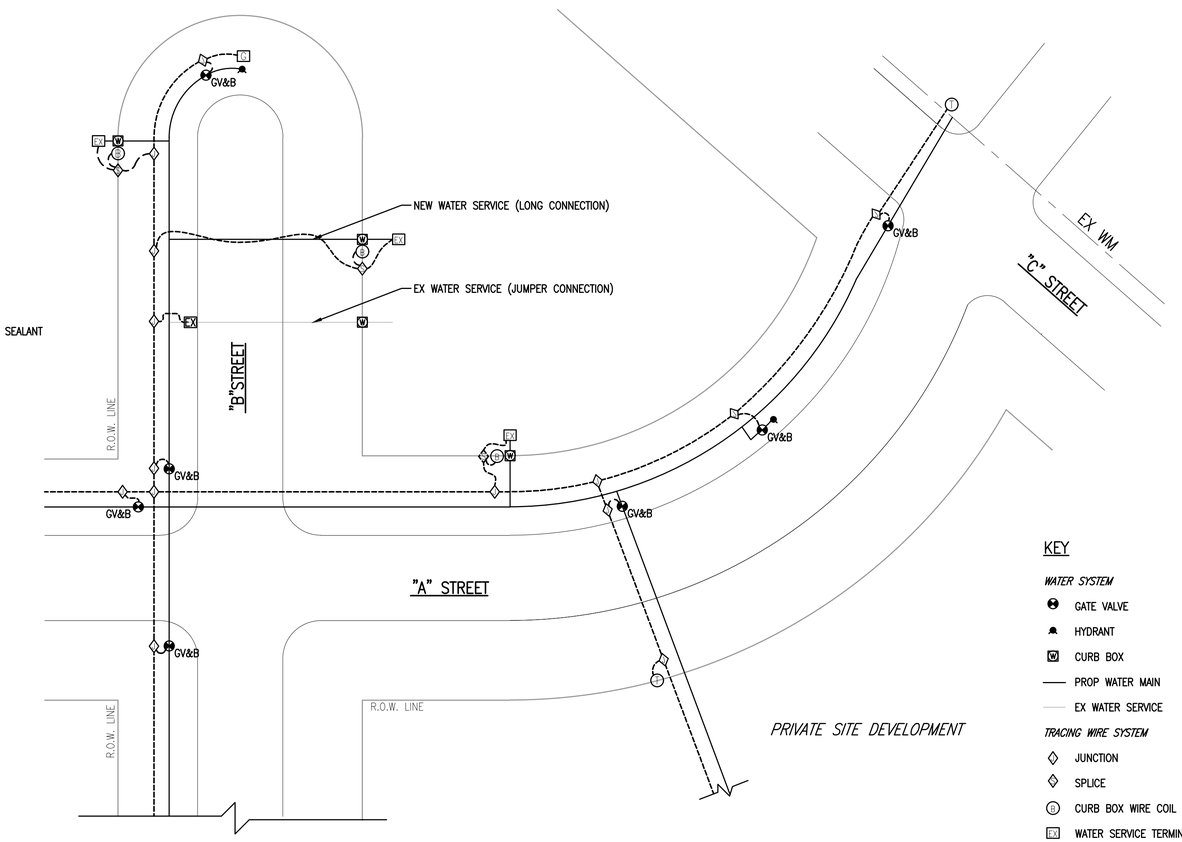

TRACER WIRE SYSTEM SCHEMATIC

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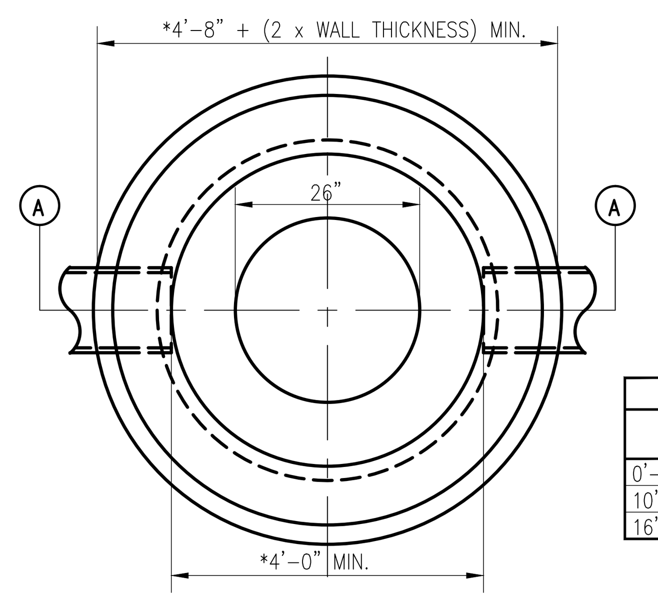
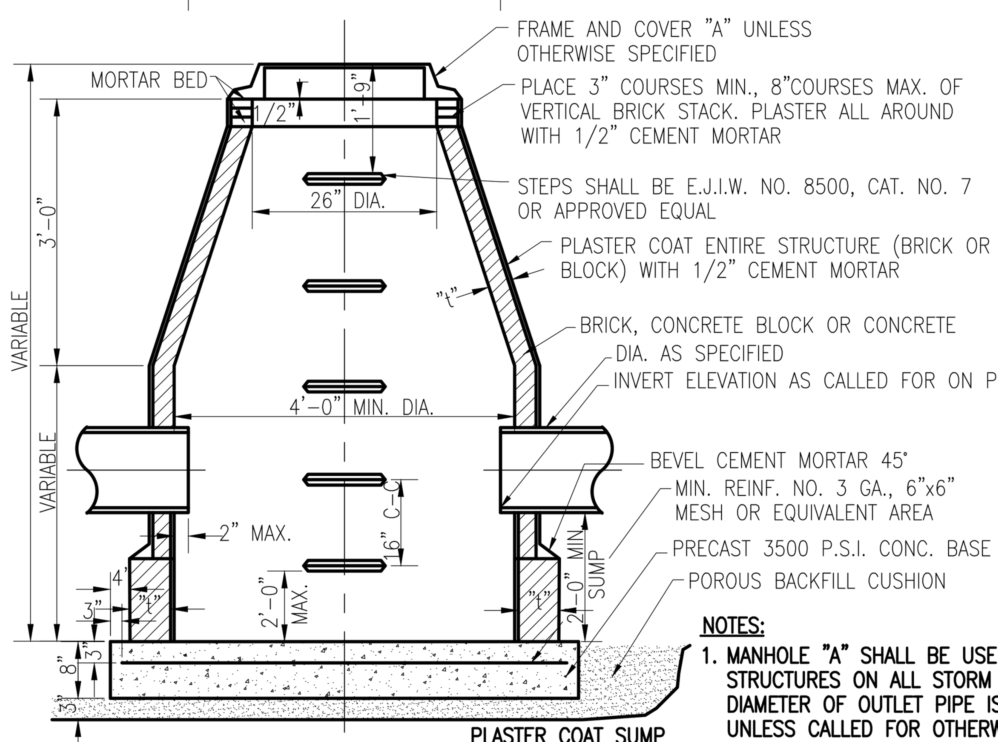
DATE	SCALE	SHEET
07/24/18	NO SCALE	



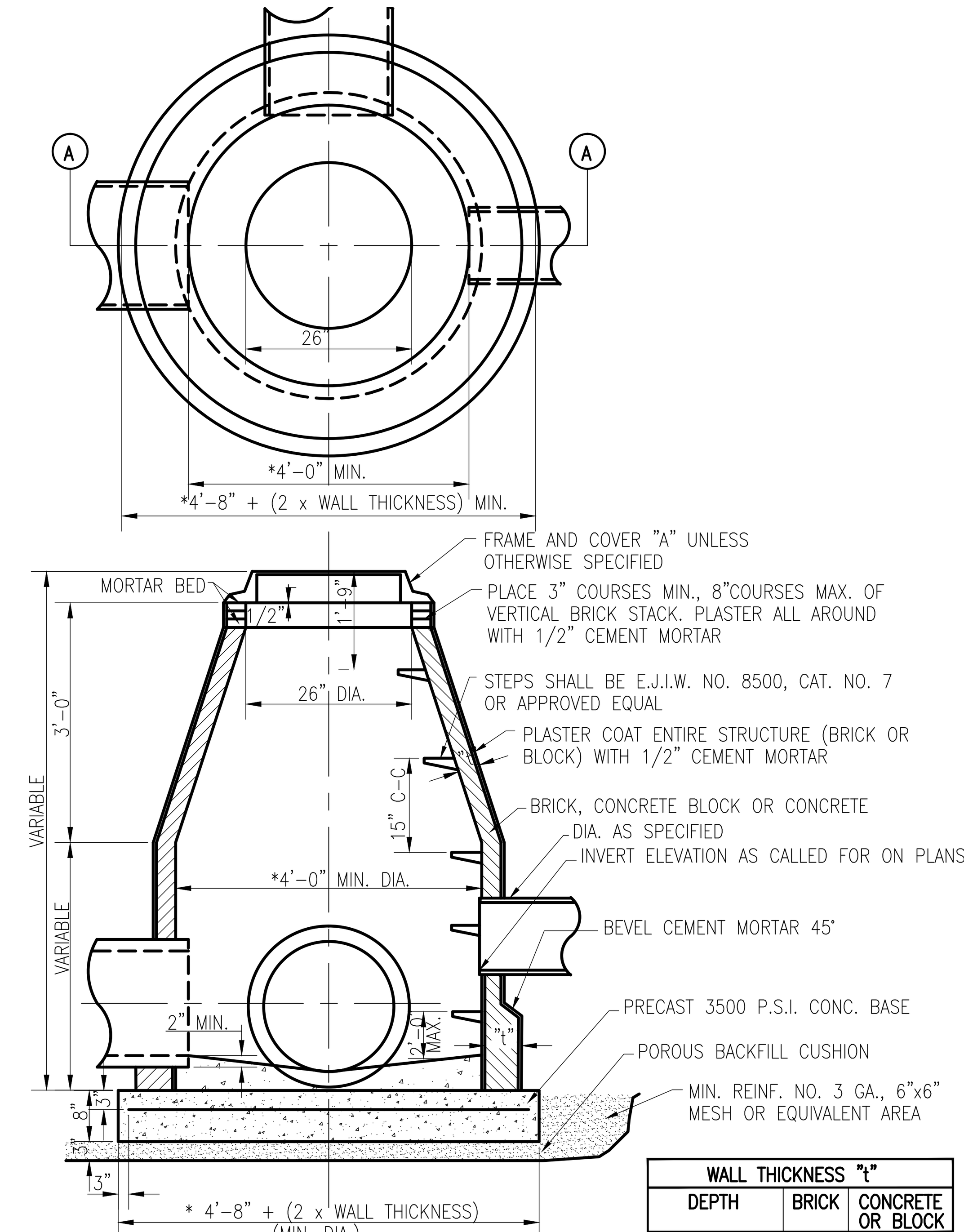
WALL THICKNESS "t"		
DEPTH	BRICK	CONCRETE OR BLOCK
0'-10'	8"	6"
10'-16'	12"	8"
16' & DEEPER	16"	12"



SECTION A-A

MANHOLE "A"

NOTES:
1. MANHOLE "A" SHALL BE USED FOR MANHOLE STRUCTURES ON ALL STORM SEWERS WHERE THE DIAMETER OF OUTLET PIPE IS 24" OR SMALLER, UNLESS CALLED FOR OTHERWISE ON THE PLANS.
*2. DIA. OF M.H. SHALL BE INCREASED AS SHOWN ON THE PLANS OR IN THE PROPOSAL DEPENDING ON THE DIAMETERS AND ANGLES OF THE SEWERS.

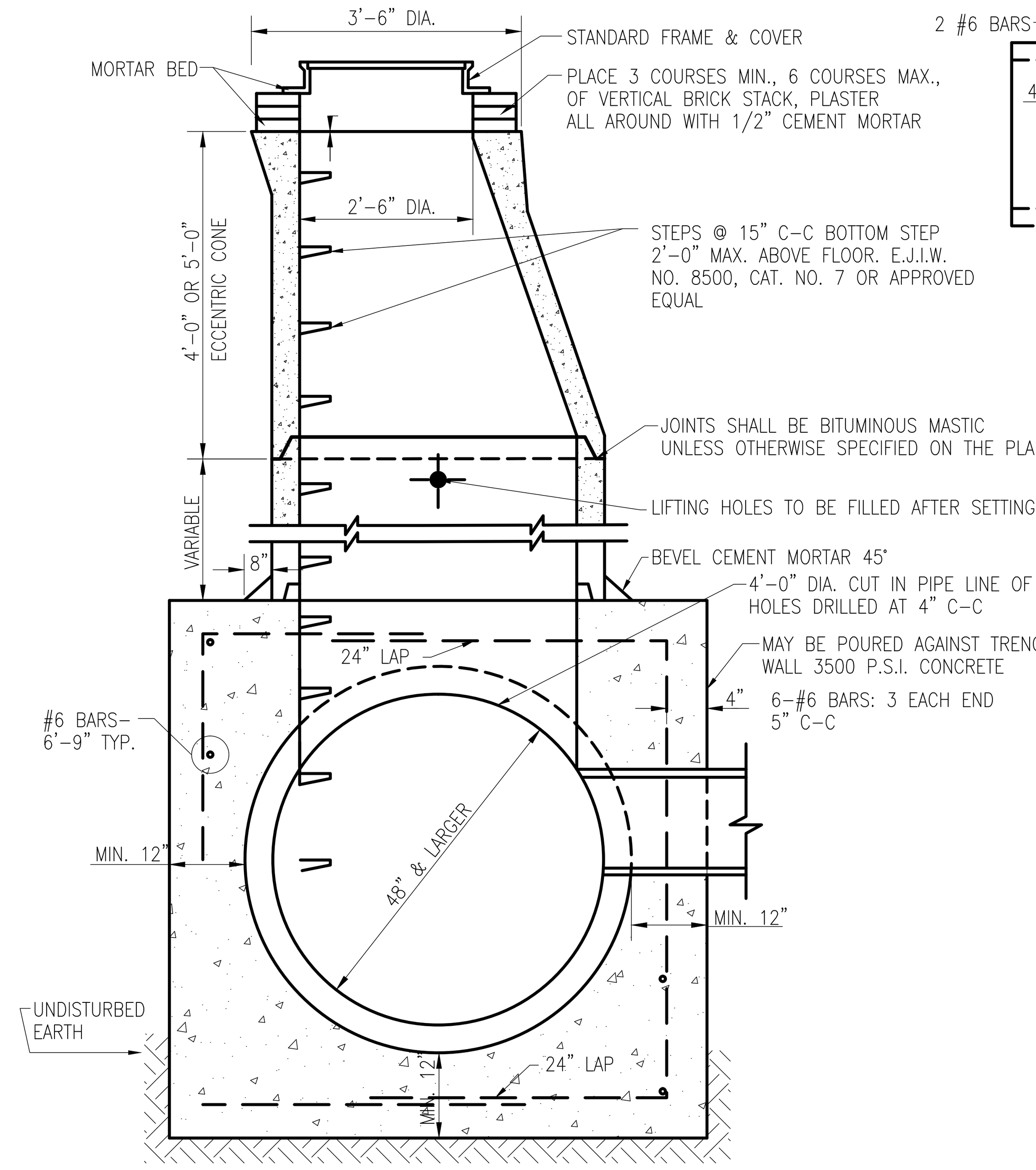


WALL THICKNESS "t"		
DEPTH	BRICK	CONCRETE OR BLOCK
0'-10'	8"	6"
10'-16'	12"	8"
16' & DEEPER	16"	12"

SECTION A-A

MANHOLE "B"

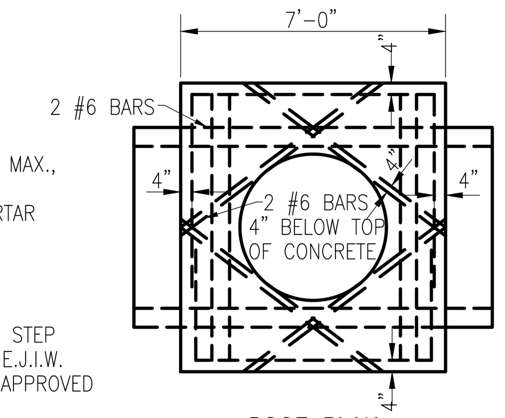
NOTES:
1. MANHOLE "B" SHALL BE USED FOR MANHOLE STRUCTURES ON ALL STORM SEWERS WHERE THE DIAMETER OF OUTLET PIPE IS 24" OR SMALLER, UNLESS CALLED FOR OTHERWISE ON THE PLANS.
*2. DIA. OF M.H. SHALL BE INCREASED AS SHOWN ON THE PLANS OR IN THE PROPOSAL DEPENDING ON THE DIAMETERS AND ANGLES OF THE SEWERS.



TYPICAL SECTION

PRECAST MANHOLE "C"

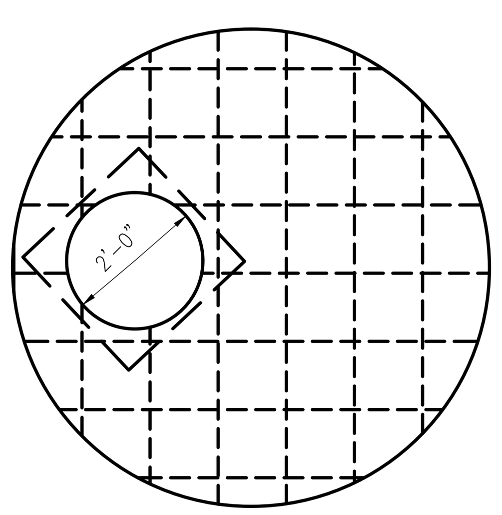
NOTES:
1. MANHOLE "C" SHALL BE USED FOR MANHOLE STRUCTURES ON ALL STORM SEWERS WHERE 48" OR LARGER DIA. PIPES INTERSECT.
2. PRECAST UNITS SHALL MEET THE REQUIREMENTS SPECIFIED BY A.S.T.M. C-478-68.



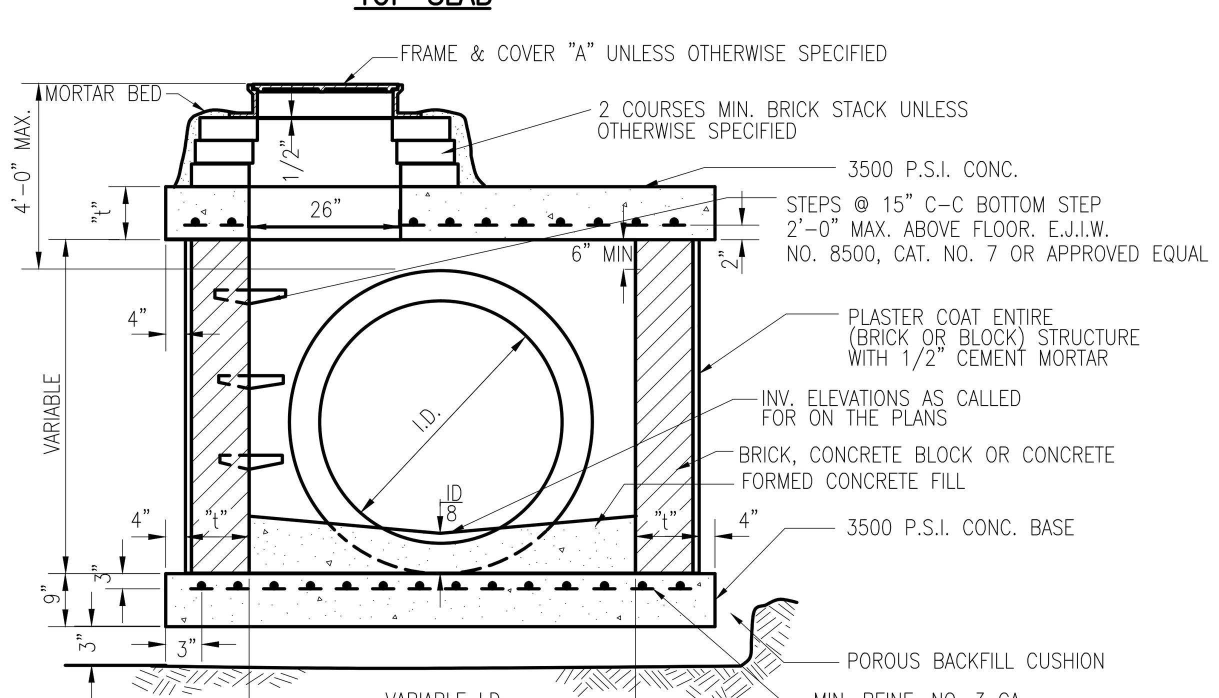
ROOF PLAN
SCALE: 1/4"=1'

GENERAL NOTES FOR
STORM SEWER MANHOLES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE TOWNSHIP OF YPSILANTI AND YCUA.
2. CONTRACTOR SHALL CONSTRUCT MANHOLES WITH PRECAST REINFORCED CONCRETE UNITS ("E", "F", AND "I") IN LIEU OF CONCRETE, BRICK AND BLOCK MANHOLES ("A" AND "B") IN ACCORDANCE WITH THE FOLLOWING CONDITIONS:
   A. MAXIMUM DIAMETER OF SEWER OUTLET IN ANY PRECAST UNIT SHALL BE 18" (MANHOLE "E" ONLY).
   B. NO OPENINGS SHALL BE MADE IN PRECAST UNITS WHICH WOULD LEAVE LESS THAN 24" OF UNDISTURBED PRECAST PIPE OR WOULD REMOVE MORE THAN 30% OF THE CIRCUMFERENCE ALONG ANY HORIZONTAL PLANE.
   C. STRUCTURES FOR SEWERS LARGER THAN 18", OR THOSE NOT MEETING THE OPENING REQUIREMENTS, SHALL BE BUILT OF BLOCK OR BRICK UP TO A MINIMUM OF 8" ABOVE THE TOP OF SEWER, WITH PRECAST UNITS BEING USED ABOVE THIS POINT. WHERE PRECAST UNITS REST ON THE BLOCK OR BRICK, THE GROOVE IN THE PRECAST UNIT SHALL BE FILLED WITH MORTAR.
   D. OPENINGS FOR THE OUTLET SEWER SHALL BE PRECAST WITH A DIAMETER OF 3 INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE OUTLET PIPE. ALL OTHER OPENINGS SHALL BE MADE IN THE FIELD AFTER MANHOLE HAS BEEN CONSTRUCTED.
3. ALL VERTICAL OPENINGS IN CONCRETE BLOCK STRUCTURE WALLS SHALL BE COMPLETELY FILLED WITH MORTAR. ALL VERTICAL WALL JOINTS SHALL BE CEMENT POINTED.
4. A "POURED 3500 P.S.I. CONCRETE BASE" WITHOUT STEEL REINFORCEMENT MAY BE SUBSTITUTED FOR PRECAST BASE WHEN APPROVED BY THE TOWNSHIP ENGINEER. A POROUS BACKFILL CUSHION WILL NOT BE REQUIRED UNDER THE POURED BASE UNLESS CONTRACTOR HAS EXCAVATED BELOW THE REQUIRED ELEVATION, AT WHICH TIME THE ENGINEER WILL DECIDE AS TO THE MERITS OF INCREASING THE THICKNESS OF THE CONCRETE BASE OR THE USE OF A POROUS BACKFILL CUSHION.
5. WHERE UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED, SLAG OR STONE BEDDING SHALL BE USED AS DIRECTED BY THE ENGINEER IN ORDER TO PROVIDE A STABLE FOUNDATION FOR PIPE AND MANHOLES.
6. ALL PIPES ENTERING OR LEAVING A MANHOLE SHALL BE ADEQUATELY SUPPORTED BY POURING 2500 P.S.I. CONCRETE FILL FROM UNDISTURBED EARTH TO SPRINGLINE.
7. WHEREVER EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES AT 4" CENTER TO CENTER AROUND PERIPHERY OR OPENING TO CREATE A PLANE OF WEAKNESS BEFORE BREAKING SECTION OUT.



TOP SLAB



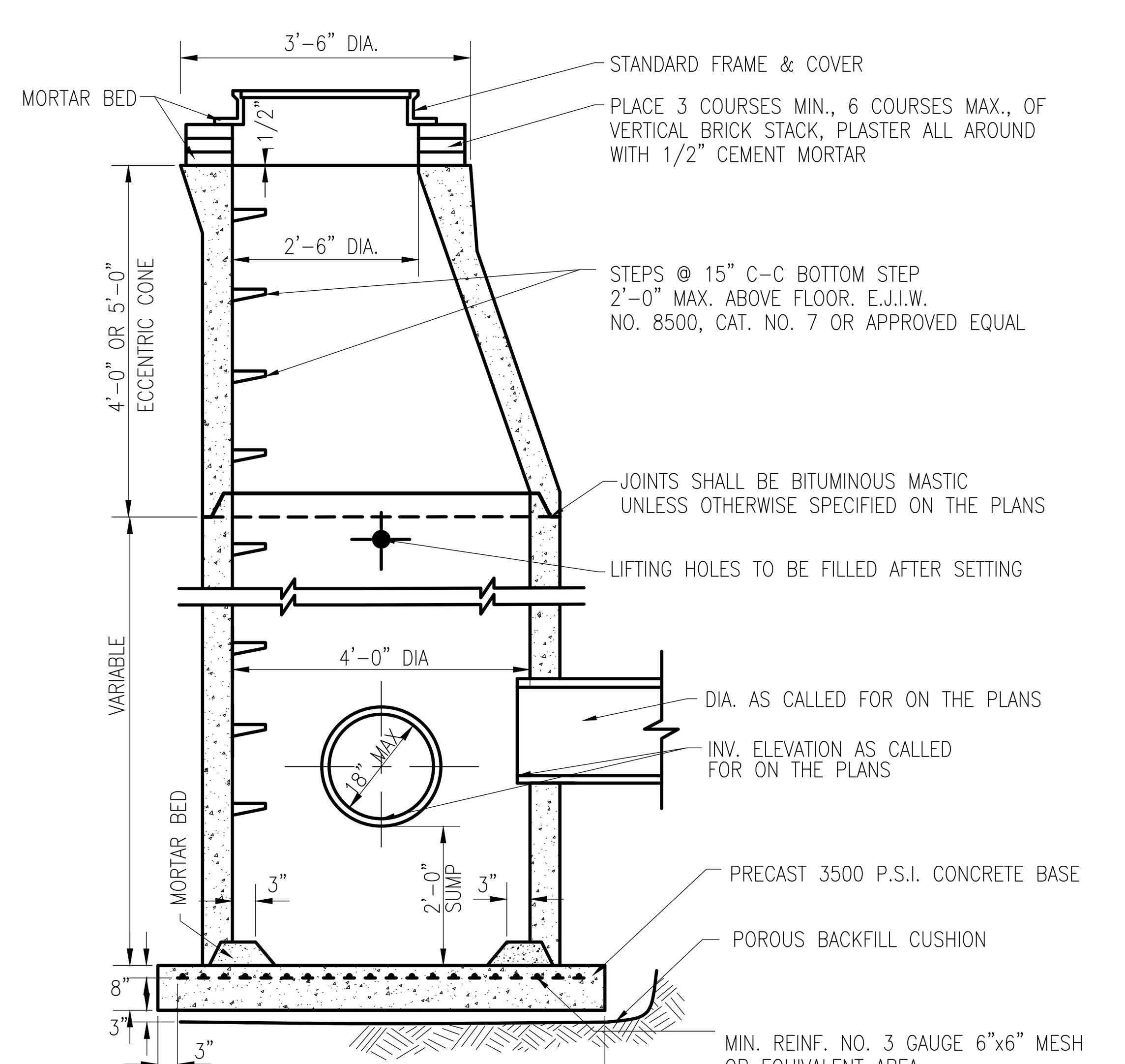
OUTLET I.D.	M.H. D	TOP SLAB "T"	WALLS "t"	REINFORCING STEEL (SLAB)
24" OR LESS	4'-0"	9"	8"	3/4" @ 9" EACH WAY
30"	*4'-0"	9"	8"	3/4" @ 9" EACH WAY
36"	*4'-0"	9"	12"	3/4" @ 9" EACH WAY
42"	*5'-0"	10"	12"	3/4" @ 9" EACH WAY
48" 54"	*6'-0"	11"	12"	7/8" @ 9" EACH WAY

M.H. D	TOP SLAB "T"	WALLS "t"	REINFORCING STEEL (SLAB)
7'-0"	12"	12"	7/8" @ 9" EACH WAY
8'-0"	12"	12"	1" @ 9" EACH WAY

NOTES:
*1. DIA. SHALL BE INCREASED AS SHOWN ON PLANS OR IN THE PROPOSAL DEPENDING ON THE ANGLE OF THE SEWERS.
2. MH. "D" SHALL BE USED WHERE THE DEPTH OF COVER FROM THE TOP OF CASTING TO THE TOP OF SEWER IS LESS THAN 4'-0". MH. "D" SHALL BE CONSTRUCTED WITH A 2' SUMP WHERE DIAMETER OF OUTLET SEWER IS 24" OR LESS.

TYPICAL SECTION

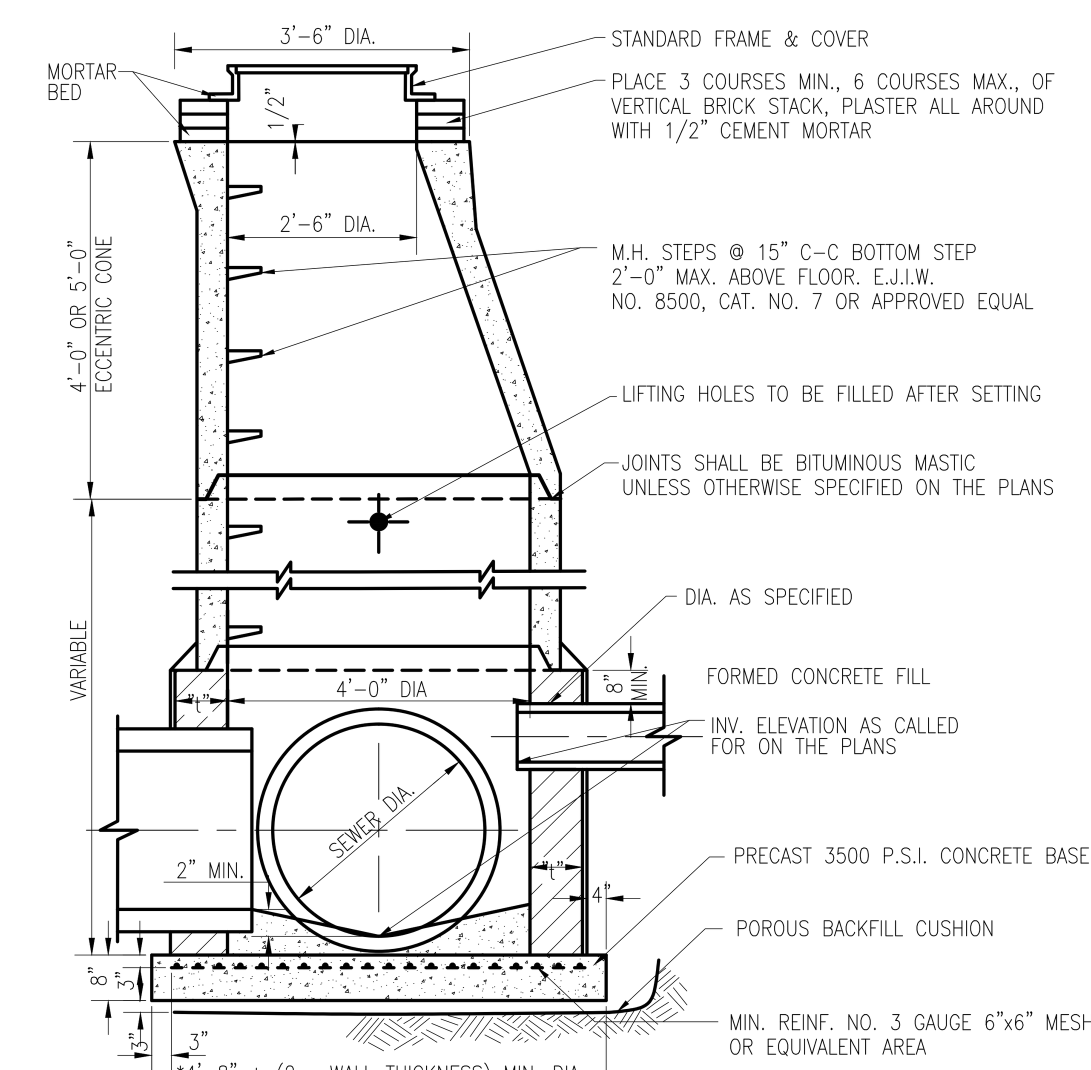
MANHOLE "D"



TYPICAL SECTION

PRECAST MANHOLE "E"

NOTES:
1. THIS MANHOLE SHALL BE USED ONLY WHEN MEETING CONDITIONS STATED IN THE "GENERAL MANHOLE NOTES", ITEM NO. 2A
2. PRECAST UNITS SHALL MEET THE REQUIREMENTS SPECIFIED BY A.S.T.M. C-478-68.



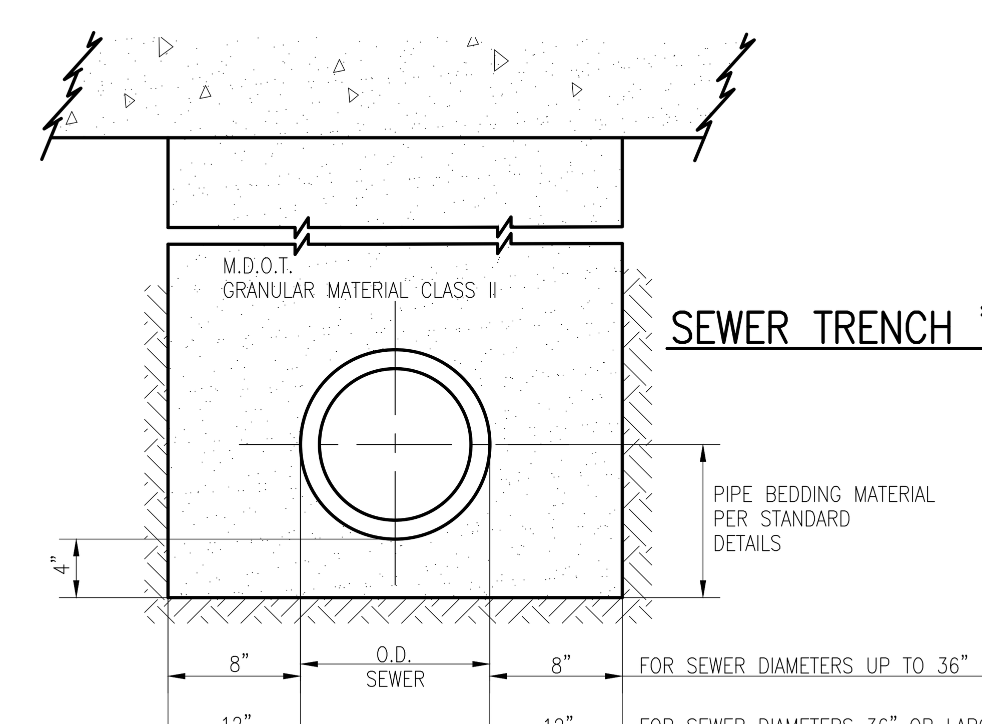
TYPICAL SECTION

PRECAST MANHOLE "F"

WALL THICKNESS "t"		
DEPTH	BRICK	CONCRETE OR BLOCK
0'-10'	8"	6"
10'-16'	12"	8"
16' & DEEPER	16"	12"

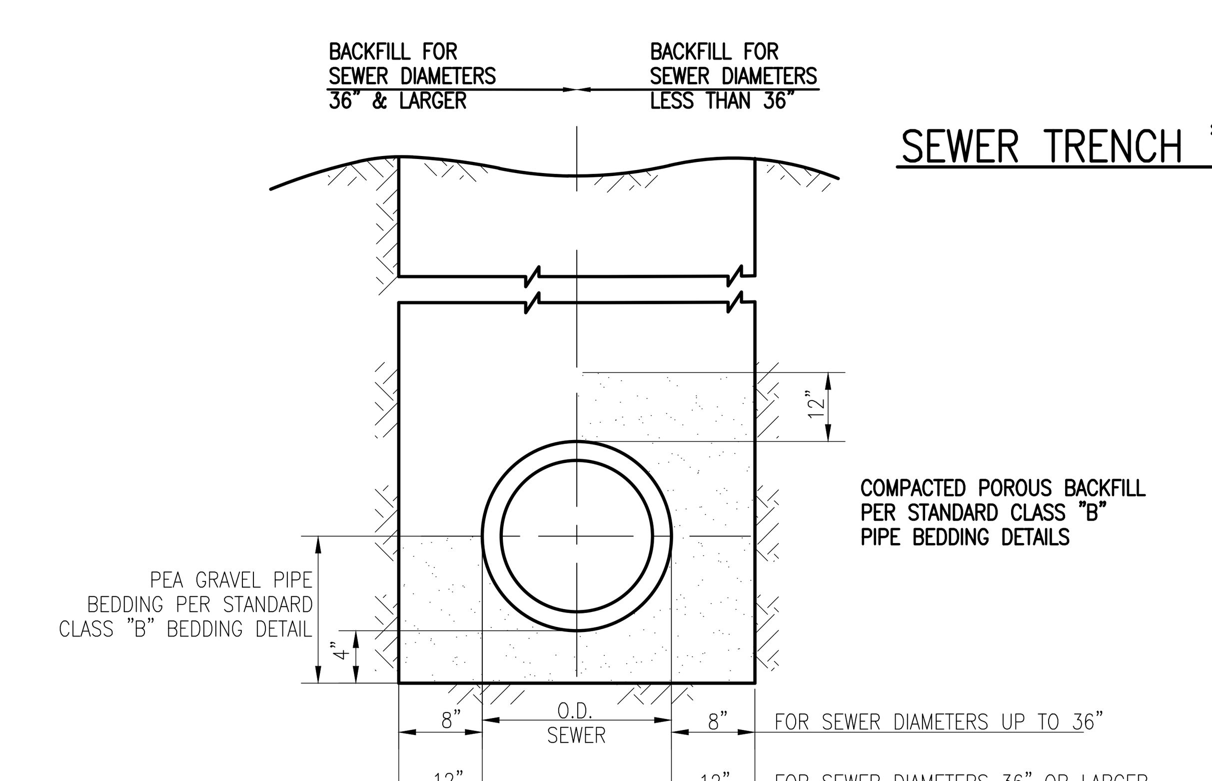
NOTES:
1. THIS MANHOLE SHALL BE USED ONLY WHEN MEETING CONDITIONS STATED IN THE "GENERAL MANHOLE NOTES", ITEM NO. 2A
2. PRECAST UNITS SHALL MEET REQUIREMENTS SPECIFIED BY A.S.T.M. C-478-68.
*3. DIAMETER OF MANHOLE SHALL BE INCREASED AS SHOWN ON PLANS OR IN THE PROPOSAL, DEPENDING ON THE DIAMETERS AND ANGLES OF THE SEWERS.

SEWER TRENCH "A"



NOTES:
1. TRENCH "A" SHALL BE USED UNDER ROAD SURFACES, PAVEMENT, SIDEWALK, CURB, AGGREGATE & PAVED DRIVES AND WHERE THE EDGE OF TRENCH IS WITHIN 3 FEET OF THE PAVEMENT
2. GRANULAR MATERIAL SHALL BE PLACED BY THE "CONTROLLED DENSITY METHOD" OR OTHER MEANS HAVING APPROVAL OF THE ENGINEER AND IS TO BE COMPACTED TO 95% OF MAXIMUM UNIT WEIGHT

SEWER TRENCH "B"



NOTES:
1. SUITABLE EXCAVATED BACKFILL MATERIAL SHALL BE PLACED IN ONE FOOT LAYERS AND COMPACTED BY MECHANICAL TAMPING OR OTHER EFFECTIVE MEANS HAVING APPROVAL OF THE ENGINEER, TO A DENSITY EQUIVALENT TO THE UNDISTURBED ADJACENT SOIL
2. TRENCH "B" SHALL BE USED UNDER CONDITIONS OTHER THAN SPECIFIED FOR TRENCH "A"

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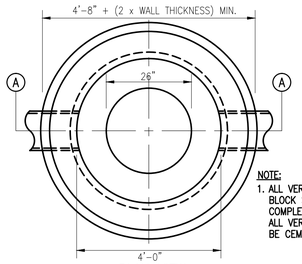
VERT DATUM | HORIZ DATUM | SCALE H: V: | JOB # | CITY/VILLAGE/TOWNSHIP | COUNTY | RANGE | TOWN | SECTION | PROJ MGR | ENG / ARCH | CADD | DATE | CLIENT: | REVISIONS: | REVISIONS: | REVISIONS:

YPSILANTI TOWNSHIP / Y.C.U.A.
STANDARD STORM SEWER DETAILS

SHEET

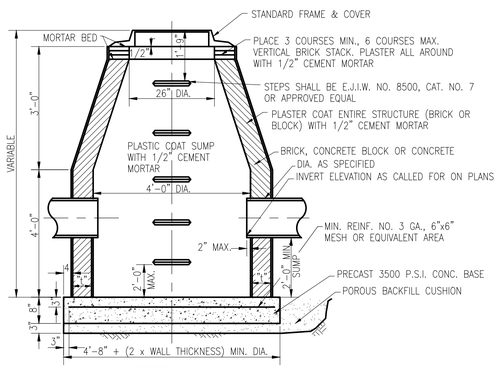
OF ##

DRAWING PATH: S:\CVT\YpsilantiTwp\standards\cadd\YpsiTownSTM1_2436.dwg Jun 05, 2015 - 1:19pm

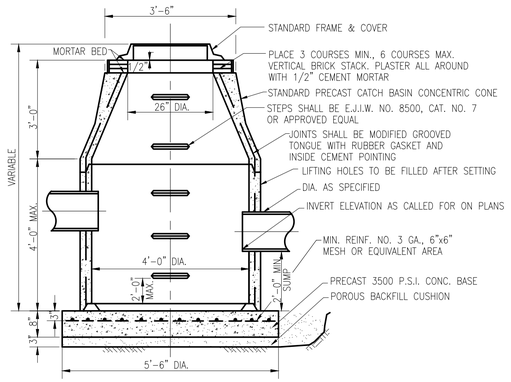


NOTE:
1. ALL VERTICAL HOLES IN CONCRETE BLOCK STRUCTURE WALL SHALL BE COMPLETELY FILLED WITH MORTAR. ALL VERTICAL WALL JOINTS SHALL BE CEMENT POINTED.

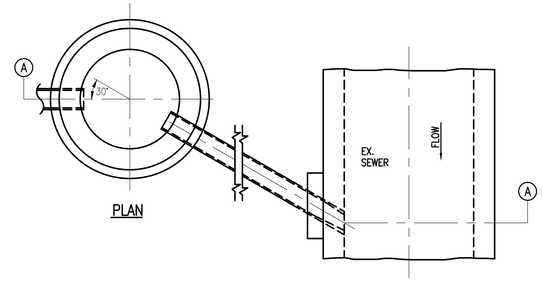
PLAN VIEW



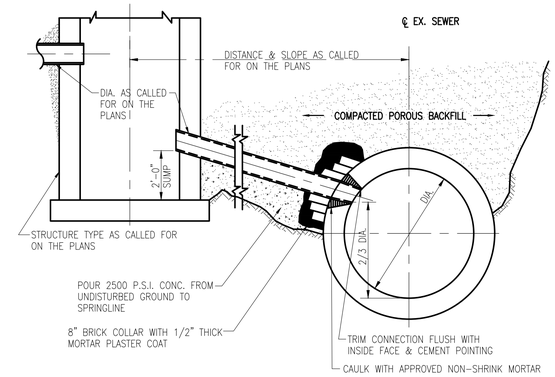
SECTION A–A
CATCH BASIN "A"



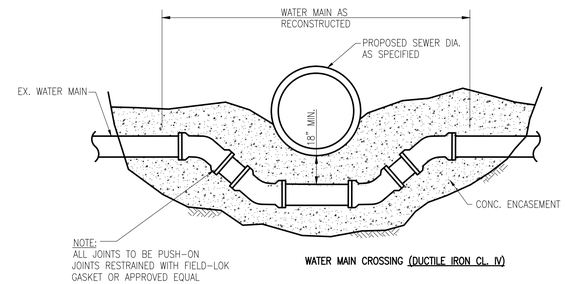
CROSS-SECTION
CATCH BASIN "B"



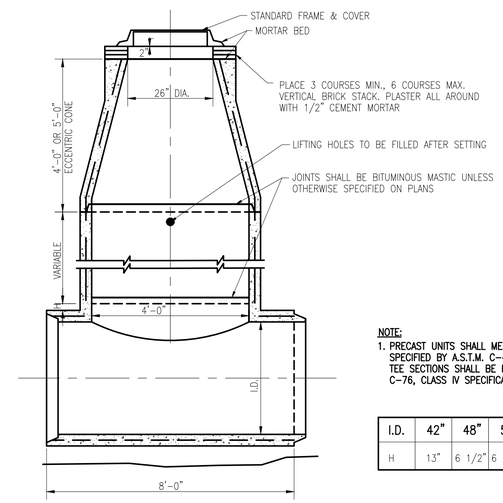
PLAN



SECTION A–A
TYPICAL CONNECTIONS TO EXISTING SEWERS



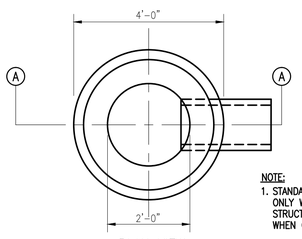
WATER MAIN CROSSING



NOTE:
1. PRECAST UNITS SHALL MEET THE REQUIREMENTS SPECIFIED BY A.S.T.M. C-478-68. ALL MANHOLE TEE SECTIONS SHALL BE REINFORCED TO A.S.T.M. C-76, CLASS IV SPECIFICATIONS

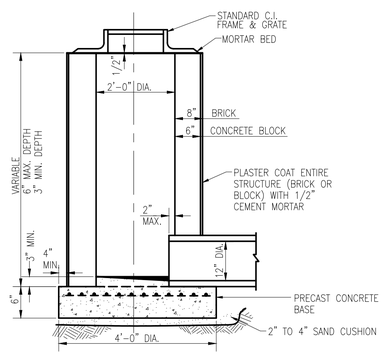
H DIMENSION

I.D.	42"	48"	54"	60"	66"	72"	78"	84"	OVER 84"
H	13"	6 1/2"	6 1/2"	1"	1 3/4"	2 1/2"	4"	6"	7"

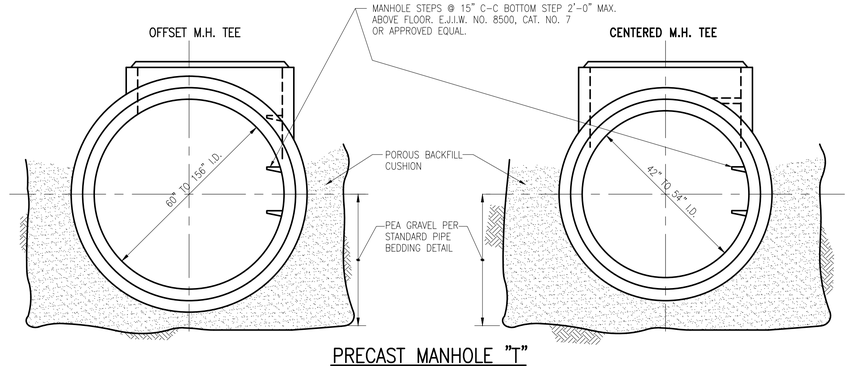


NOTE:
1. STANDARD INLET WILL BE USED ONLY WHEN OUTLETTING TO A STRUCTURE HAVING A SUMP OR WHEN OUTLETTING TO A DITCH

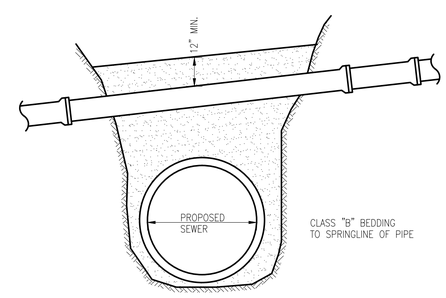
PLAN VIEW



SECTION A–A
STANDARD INLET

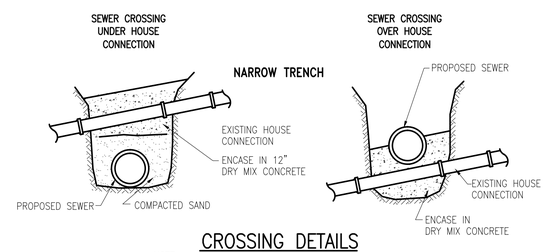


PRECAST MANHOLE "T"



HOUSE CONNECTION CROSSING

NOTE:
1. M.D.O.T. GRANULAR MATERIAL CLASS II PLACED IN 6" LAYERS AND COMPACTED TO A MINIMUM OF 95% OF ITS MAXIMUM UNIT WEIGHT TO A HEIGHT OF 12" ABOVE THE TOP OF THE SEWER LEAD.



CROSSING DETAILS

NOTE:
1. WHEN UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED STONE, SLAG OR DRY MIX CONCRETE SHALL BE USED TO BACKFILL THE TRENCH TO A HEIGHT 12" ABOVE THE TOP OF THE SEWER LEAD.

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DATE | CADD | ENG/ARCH | PROJ.MGR | SECTION | TOWN | RANGE | COUNTY | CITY/VILLAGE/TOWNSHIP | SCALE | H: | V: | JOB # | HORIZ.DATUM | VERT.DATUM

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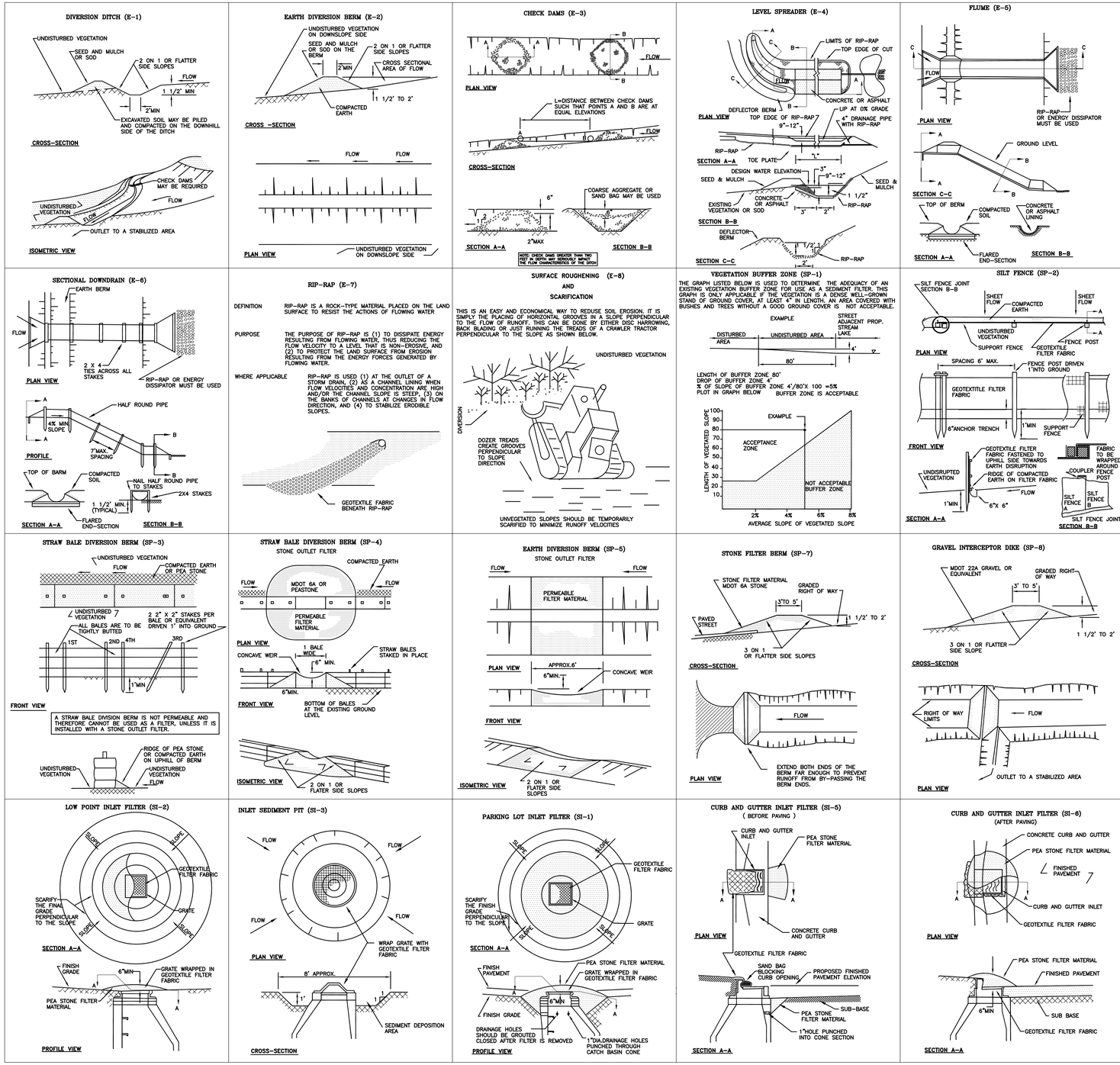
YPSILANTI TOWNSHIP / Y.C.U.A.
STANDARD STORM SEWER DETAILS

SHEET

OF ##

DRAWING PATH: S:\CITY\ypsilanti\wp\standards\cadd\ypsiTownSTM2_2438.dwg Jun 05, 2015 - 1:20pm



RULE 323.1703

SOIL EROSION AND SEDIMENTATION CONTROL PLAN REQUIREMENTS.

A PERSON SHALL PREPARE A SOIL EROSION AND SEDIMENTATION CONTROL PLAN FOR ANY EARTH CHANGE IDENTIFIED IN R 323.1704. A PERSON SHALL DESIGN THE PLAN TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND SEDIMENTATION AND SHALL IDENTIFY FACTORS THAT MAY CONTRIBTUE TO SOIL EROSION OR SEDIMENTATION, OR BOTH. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL OF THE FOLLOWING:

(A) A MAP OR MAPS AT A SCALE OF NOT MORE THAN 200 FEET TO THE INCH OR AS OTHERWISE DETERMINED BY THE COUNTY OR LOCAL ENFORCING AGENCY. A MAP SHALL INCLUDE A LEGAL DESCRIPTION AND SITE LOCATION SKETCH THAT INCLUDES THE PROXIMITY OF ANY PROPOSED EARTH CHANGE TO LAKES OR STREAMS, OR BOTH; PREDOMINATE LAND FEATURES; AND CONTOUR INTERVALS OR SLOPE DESCRIPTION.

(B) A SOILS SURVEY OR A WRITTEN DESCRIPTION OF THE SOIL TYPES OF THE EXPOSED LAND AREA CONTEMPLATED FOR THE EARTH CHANGES.

(C) DETAILS FOR PROPOSED EARTH CHANGES, INCLUDING ALL OF THE FOLLOWING:

(i) A DESCRIPTION AND THE LOCATION OF THE PHYSICAL LIMITS OF EACH PROPOSED EARTH CHANGE.

(ii) A DESCRIPTION AND THE LOCATION OF ALL EXISTING AND PROPOSED ON-SITE DRAINAGE AND DEWATERING FACILITIES.

(iii) THE TIMING SEQUENCE OF EACH PROPOSED EARTH CHANGE.

(iv) THE LOCATION AND DESCRIPTION FOR INSTALLING AND REMOVING ALL PROPOSED TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.

(v) A DESCRIPTION AND THE LOCATION OF ALL PROPOSED PERMANENT SOIL EROSION AND SEDIMENTATION MEASURES.

(v) A PROGRAM PROPOSAL FOR THE CONTINUED MAINTENANCE OF ALL PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES THAT REMAIN AFTER PROJECT COMPLETION, INCLUDING THE DESIGNATION OF THE PERSON RESPONSIBLE FOR THE MAINTENANCE. MAINTENANCE RESPONSIBILITIES SHALL BECOME A PART OF ANY SALES OR EXCHANGE AGREEMENT FOR THE LAND ON WHICH THE PERMANENT SOIL EROSION CONTROL MEASURES ARE LOCATED.

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ISSUE NO.	BID DATE
B.G. DRN.	DATE 03/25/04
TOPO DRN.	DESIGN
PROFILE DRN.	ENG. DRN.
APPROVED	SCALE V: H: NTS

YPSILANTI TOWNSHIP

TOWNSHIP STANDARD

SOIL EROSION CONTROL DETAILS

CLIENT: YPSILANTI TOWNSHIP

ORCHARD, HILTZ & McCLIMENT, INC.
OHM CONSULTING ENGINEERS
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Livonia, MI 48150
(734) 522-6711
(734) 522-6427 FAX

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LAYOUT: SESC
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JOB NO.

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Drawing Path: P:\0000_0100\009808061_Ypsi_Twp_Stnds_Update\009805005O_Ypsi_Twp_Stds_Update C_MUNI\SESC.dwg
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