SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION SUPERIOR TOWNSHIP HALL 3040 N. PROSPECT, SUPERIOR TOWNSHIP, MI 48198 AGENDA FEBRUARY 26, 2025 - 7:00 PM

- 1. CALL TO ORDER
- 2. ROLL CALL
- 3. DETERMINATION OF QUORUM
- 4. ADOPTION OF AGENDA
- 5. APPROVAL OF MINUTES

A. Approval of the January 22, 2024, Regular Meeting Minutes

- 6. CITIZEN PARTICIPATION
- 7. CORRESPONDENCE
- 8. PUBLIC HEARINGS, DELIBERATIONS AND ACTIONS
 - A. STPC #25-02 Conditional Use Permit/Preliminary Site Plan DTE Electric Grenada Electric Substation Expansion
- 9. **REPORTS**
 - A. Building Department Report
 - B. Zoning Administrator Report
- 10. OLD BUSINESS
- 11. NEW BUSINESS
- 12. POLICY DISCUSSION
 - A. Size of plans submitted for Commission packets: full-sized plan sheets (24 in x 36 in), Tabloid size (11 in x 17 in), and/or digital PDF
 - B. Zoning Ordinance Rewrite
- 13. ADJOURNMENT

Thomas Brennan III, Commission Secretary 3040 N. Prospect, Ypsilanti, MI 48198

Diane Mulville-Friel, Planning & Zoning Administrator 734-482-6099

SUPERIOR CHARTER TOWNSHIP

Planning Commission Regular Meeting Minutes - DRAFT January 22, 2025, 7:00 PM Township Hall - 3040 North Prospect Superior Township, MI 48198

1. CALL TO ORDER

Chairman Gardner called the regular meeting to order at 7:00 p.m.

2. ROLL CALL

- Present: Jay Gardner, Chair Dr. Robert Steele, Vice Chair Thomas Brennan, Secretary Patrick McGill Brenda McKinney, Board Representative Nahid Sanii-Yahyai Curt Wolf
- Absent: None
- Also Present: Planning Consultant Diane Mulville-Friel, Carlisle Wortman Engineering Consultants - Claire Martin, OHM

3. DETERMINATION OF QUORUM

A quorum was present.

4. ADOPTION OF AGENDA

MOTION by Brennan, supported by Sanii-Yahyai, to adopt the January 22, 2025, agenda with the following changes:

- 11.A. STPC 2021-02 The Meadows at Hawthorne Mills Extension of Final Site Plan
- 11.B. Adoption of 2025 Meeting Schedule
- 11.C. Election of Officers for 2025

Motion passed unanimously by voice vote.

5. APPROVAL OF MEETING MINUTES

A. January 22, 2025 - Regular Meeting Minutes

Chair Gardner requested that the minutes be corrected. Chair Gardner asked that the third paragraph under "11A. STPC 2023-03 Garrett's Space Final Site Plan", be changed as follows:

"Chair Gardner also asked Mr. Halpert is he <u>if the entity, Garrett's Space</u>, controlled the property. Halpert responded, yes."

The changes were accepted without objection.

MOTION by Brennan supported by Sanii-Yahyai, to approve the September 24, 2024, meeting minutes as amended.

Motion passed unanimously by voice vote.

6. CITIZEN PARTICIPATION

Chair Gardner opened the Citizen Participation portion of the meeting. Superior Township Board of Trustee, Dana Greene Jr., was present and he introduce himself to the Planning Commission as a new Trustee. No other citizens wished public comment.

7. CORRESPONDANCE

Ms. Mulville-Friel provided the Commission with copies of communication from Cresson Slotten of OHM regarding tonight's Planning Commission agenda item 11A The Meadows at Hawthorne Mill Extension of Final Site Plan. The OHM correspondence provides background on this proposed development as the final site plan was approved in November of 2023. OHM prepared a memo (dated January 22, 2025) to provide background/status information for the Planning Commission to consider.

MOTION by Brennan supported by Sanii-Yahyai, to receive the correspondence.

Motion passed unanimously by voice vote.

8. PUBLIC HEARINGS, DELIBERATIONS AND ACTIONS

No Public Hearings.

9. <u>REPORTS</u>

A. Building Department Report

Ms. Mulville-Friel provided the Commission with the Building Department Year-To-Date Report (January 2024 – December 2024).

B. Zoning Administrator Report

Ms. Mulville-Friel provided the Commission with an overview of the status of active development projects (Prospect Pointe West, Brookwood, and Garrett's Space); the status of the Zoning Board of Appeals (ZBA) and upcoming cases to be heard; the Planning Commission; and other business/news.

MOTION by Brennan supported by Wolf, to receive the reports.

Motion passed unanimously by voice vote.

10. OLD BUSINESS

None.

11. NEW BUSINESS

A. STPC 2021-02 - The Meadows at Hawthorne Mills - Extension of Final Site Plan

Jared Kime, from Atwell LLC, provided an overview of the applicant's (Louis J. Eyde Family, LLC) request for the Planning Commission to grant a one-year extension to the final site plan approved for Phase I of the Meadows at Hawthorne Mill. Mr. Kime explained that the request for an extension was sent to the Township on October 1, 2024, prior to the final site plan expiration date. He explained that the applicant (Louis J. Eyde Family, LLC) was in the process of selling the property to another developer. Terms of the purchase are being finalized, and the purchaser intends to develop the property in a similar fashion as Louis J. Eyde Family, LLC would have developed the property.

Chair Gardner asked if there were any planned changes to the scope of the project. Mr. Kime stated, that they are requesting an extension for the approved final site plan as is and there are no plans to changes to the site plan; however, there are some outstanding conditions that will need to be addressed.

Chair Gardner asked Mr. Kime to explain the structure of the owner/developer relationship. Kime explained that the property owner is Louis J. Eydes Family, LLC and they had been operating as the developer as well but Eydes are not a home builders. They were intending to partner with Pulte Group, a large developer/home builder to take over the property. The final site plan approve only includes Phase 1 of the project. Chair Gardner asked if Pulte Group will be the developer of Phase 2 and Kime stated that those details have not been worked out yet.

Steele asked for clarification on roadway improvements required. All required off-site road improvements are triggered by Phase 1 of the development.

No other questions were asked by Commissioners and the Chair requested OHM to provide an overview of the memo (dated January 22, 2025) Cresson Slotten had prepared. Ms. Martin summarized the memo (attached at the end of these minutes).

Commissioner Steele asked about steep slopes on the property line and how they were being preserved. Kime stated that there are some areas with steep slopes in excess of 25% near the southeast corner of the property that are too steep to build on and these area will be maintained as is and left in a natural vegetated state.

No other questions were asked by Commissioners, and the Chair requested a motion.

MOTION by Brennan supported by Steele to approve a Final Site Plan extension for STPC 2021-02 - The Meadows at Hawthorne Mills with the following conditions:

- 1) Provide a cost estimate of the requirement woodland mitigation to be paid into Superior tree fund. Once a fund number is agreed upon with the Township, the applicant shall pay the amount to the Township.
- 2) All future homebuilders will be required to submit floor plans and elevations for review and approval by the Planning Commission.
- 3) Secure all required Washtenaw County Road Commission (WCRC) permits and right-ofway dedications to facilitate improvements at the intersection of Prospect and Geddes Rd as well as turn lane improvements for the private connection on Geddes Road.
- 4) Complete a Development Agreement and present to the Board of Trustees for approval prior to Phase 1 moving to the pre-construction phase of the development.

Roll Call Vote

Yes: Gardner, Steele, Brennan, McGill, McKinney, Sanii-Yahyai, Wolf No: None. Abstain: None. The motion carried 7-0.

B. Adoption of the 2025 Meeting Schedule

MOTION by Sanii-Yahyai supported by Brennan, to adopt the 2025 Planning Commission Meeting Schedule.

Motion passed unanimously by voice vote.

C. Election of Officers for 2025

MOTION by Sanii-Yahyai to elected Mr. Gardner as the Chair. The motion was supported by Brennan.

Roll Call Vote

Yes: Steele, Brennan, McGill, McKinney, Sanii-Yahyai, Wolf No: None. Abstain: Gardner The motion carried 6-0, 1 abstain.

MOTION by Sanii-Yahyai to elected Mr. Steele as the Vice Chair. The motion was supported by Brennan.

Roll Call Vote

Yes: Gardner, Brennan, McGill, McKinney, Sanii-Yahyai, Wolf No: None. Abstain: Steele The motion carried 6-0, 1 abstain. SUPERIOR CHARTER TOWNSHIP Planning Commission Regular Meeting January 22, 2025 – DRAFT MINUTES Page 5 of 5

MOTION by Sanii-Yahyai to elected Mr. Brennan as the Secretary. The motion was supported by Gardner.

Roll Call Vote Yes: Gardner, Brennan, McGill, Steele, McKinney, Sanii-Yahyai, Wolf No: None. Abstain: Brennan The motion carried 6-0, 1 abstain.

12. POLICY DISCUSSION

A. Review of Ordinance No. 181 Establishing the Planning Commission

Ms. Mulville-Friel asked Commissioners to familiarize themselves with Superior Township Ordinance No. 181 which was adopted to establish a Planning Commission for the Township. She explained that the ordinance outlined important conditions and structure of the Planning Commission (i.e., membership, removal, compensation, officer and committees, etc).

Chair Gardner clarified that although this particular ordinance was adopted in 2011, the Superior Township Planning Commission has been in existence for a long time.

Ms. Mulvile-Friel confirmed that the Township Planning Commission has been in existence way prior to the adoption of this ordinance and that Ordinance 185 confirmed establishment of the Superior Township Planning Commission under the Michigan Planning Enabling Act and the Michigan Zoning Enabling Act and established the Planning Commission for the Township with the authority, powers, and duties provided by those Acts and subject to the terms and conditions of this Ordinance.

A. Zoning Ordinance Rewrite Update

Ms. Mulville-Friel explained that the two memos (dated December 13, 2024 and January 15, 2025) included in the agenda packet regarding Superior Township Zoning Ordinance Evaluation highlight the progress made to date.

Ms. Mulville-Friel relayed to the Planning Commission that the Township established a Zoning Ordinance Rewrite Steering Committee made up of three (3) Planning Commission members. Gardner, Brennan, and Sanii-Yahyai were approved by the Township Board to serve on the Steering Committee. The Steering Committee typically meets one hour prior to the regular scheduled Planning Commission meeting.

Chair Garner asked for clarification on the procedures to obtain input from the Planning Commission on the proposed rewrite as well as the public input. Ms. Mulville-Friel stated that this procedure will be outlined more clearly and reported back at a subsequent meeting.

13. ADJOURNMENT - next regularly scheduled meeting on February 26, 2025

MOTION by Brennan, supported by McKinney to adjourn the meeting.

SUPERIOR CHARTER TOWNSHIP Planning Commission Regular Meeting January 22, 2025 – DRAFT MINUTES Page 6 of 5

Motion passed unanimously by voice vote.

The meeting was adjourned at 7:47 pm.

Meeting Minutes Respectfully submitted,

Thomas Brennan III, Planning Commission Secretary Diane Mulville-Friel, Recording Secretary 3040 N. Prospect, Ypsilanti, MI 48198, 734-482-6099

Attached:

Cresson Slotten, OHM memo (dated January 22, 2025)



ARCHITECTS. ENGINEERS. PLANNERS.

January 22, 2025

CHARTER TOWNSHIP OF SUPERIOR

3040 N. Prospect Road Ypsilanti, MI 48198

Attention: Planning Commission

Regarding: The Meadows at Hawthorne Mill – Phase 1 Final Site Plan Approval Extension Request OHM Job No. 0140-20-1010

Dear Planning Commissioners,

On the agenda for consideration by the Planning Commission at your January meeting is a request for an extension of Final Site Plan for Phase 1 of The Meadows at Hawthorn Mill.

This site plan is for Phase 1 of a new single-family residential development with associated site improvements, which include a total of 40 lots/units (215 lots are proposed for the full development). The Phase 1 of the overall development is comprised of construction of the roads and infrastructure items to directly serve those units, extension of a sanitary sewer from LeForge Road across the neighboring property to the west needed to service Phase 1, and mass grading of the entire site. The site is in the northwest quarter of Section 33 on the south side of Geddes Road, east of LeForge Road, directly west of the Prospect Point West Site Condominium development.

We offer the following background information on this site plan.

- 1. The Preliminary Site Plan (PSP) for the entire development was approved by the Planning Commission on October 28, 2020.
- 2. Following the PSP approval, the Applicant submitted their Traffic Impact Study (TIS) to the Washtenaw County Road Commission (WCRC) for review. The WCRC reviewed the TIS and determined that the Applicant needs to improve Geddes Road for their private road connections to Geddes Road with turn lanes, and also improve the Geddes Road/Prospect Road intersection with turn lanes and traffic signal improvements due to the additional traffic the development is going to generate.
- 3. As the Applicant began to prepare their Final Site Plan (FSP) materials in late 2020/early 2021 they noted to Township staff that they intended to phase the development but needed to mass grade the entire site as part of Phase 1. It was determined that the Applicant needed to submit engineering detail level plans for the entire development for OHM to review to ensure the mass grading, water and sanitary sewer designs were appropriate to review for the Phase 1 FSP.



- 4. As OHM worked through reviewing the Engineering Submittals, the Applicant applied for their necessary EGLE wetlands permit for the full development and OHM assisted the Applicant in applying for the required EGLE Part 41sanitary sewer and PA 399 water main construction permits for the entire development.
 - a) The EGLE wetland permit was approved on December 6, 2022.
 - b) The EGLE Part 41 sanitary permit was approved on October 3, 2023
 - c) The EGLE PA 399 water main permit was approved on January 10, 2024
- 5. With the approval of the EGLE Part 41 sanitary sewer permit in October 2023, though the water permit hadn't been approved, it was reasonably assured that this permit was going to be issued so the Applicant submitted their Phase 1 FSP materials to the Township.
- 6. The Meadows Phase 1 FSP was approved by the Planning Commission on November 15, 2023, with the following conditions:
 - a) Provide a cost estimate of the requirement woodland mitigation to be paid into tree fund. Once a fund number is agreed upon with the Township, the applicant shall pay the amount to the Township. (Funds have not yet been deposited. This will be done by the new developer following the sale of the project.)
 - b) All future homebuilders will be required to submit floor plans and elevations for review and approval by the Planning Commission.
 - c) Address all items in the Township Engineer's November 9, 2023 review. (Following the FSP approval in November 2023 the Applicant's engineer submitted their first set of Phase 1 Engineering Plans to OHM in late January 2024 and included a response letter to OHM's November 9, 2023 review letter indicating how these items had been addressed. This condition has been met.)
- 7. The Applicant's engineer has submitted engineering plans to the WCRC for the improvements to Geddes Road for their private road connections. The plans for these improvements were approved by the WCRC on September 19, 2023.
- 8. The Applicant's engineer submitted a separate set of engineering plans to the WCRC for the Geddes Road/Prospect Road intersection improvements. The most recent communication from the WCRC received by OHM regarding these plans is an email dated October 16, 2023, that included seven comments to be addressed by the Applicant's engineer. Additional right-of-way is needed for these intersection improvements over a portion of a Township-owned parcel at the northwest corner of the intersection. OHM has reviewed the right-of-way documents provided by the Applicant's engineer and found them to have proper closure and match the exhibit drawings. A motion to grant this additional right-of-way will be presented to the Board of Trustees for their consideration at a future regular meeting of the Board.
- 9. The drafting of a Development Agreement for Phase 1 of The Meadows at Hawthorn Mill was started but the document has not been finalized. A Development Agreement will be presented to the Board of Trustees for approval prior to Phase 1 moving to the pre-construction phase of the development.

The Meadows at Hawthorne Mill Final Site Plan – Extension Request January 22, 2025 Page 3 of 3



If you have any questions regarding our review, please feel free to contact me at (734) 466-4585, or Claire Martin at (734) 466-4592.

Sincerely, OHM Advisors

Cresson Slotten, P.E.

Cc: Emily Dabish Yahkind, Township Supervisor (via email) Angela Robinson, Township Clerk (via email Bill Balmes, Building Department (via email) Ben Carlisle, CWA, Twp Planner (via email) Diane Mulville-Friel, CWA (via email) George Tsakoff, OHM Advisors (via email) Claire Martin, OHM Advisors (via email) File

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SUPERIOR TOWNSHIP BUILDING DEPARTMENT MONTH-END REPORT January 2025

Category	Estimated Cost	Permit Fee	Number of Permits
Com/Multi-Family Renovations	\$1,972,800.00	\$12,823.00	1
Electrical	\$0.00	\$8,470.00	31
Mechanical	\$0.00	\$6,975.00	41
Plumbing	\$0.00	\$6,495.00	27
Res-Other Building	\$52,528.00	\$395.00	3
Res-Renovations	\$45,000.00	\$292.00	1
Totals	\$2,070,328.00	\$35,450.00	104

SUPERIOR TOWNSHIP BUILDING DEPARTMENT YEAR-TO-DATE REPORT

Page: 1 Printed: 02/03/25

January 2025 To Date

Category	Estimated Cost	Permit Fee	Number of Permits
Com/Multi-Family Renovations	\$1,972,800.00	\$12,823.00	1
Electrical	\$0.00	\$8,470.00	31
Mechanical	\$0.00	\$6,975.00	41
Plumbing	\$0.00	\$6,495.00	27
Res-Other Building	\$52,528.00	\$395.00	3
Res-Renovations	\$45,000.00	\$292.00	1
Totals	\$2,070,328.00	\$35,450.00	104

MEMO

TO: Superior Charter Township Board of Trustees

FROM: Diane Mulville-Friel, Planning & Zoning Administrator

RE: Planning & Zoning Department Report

DATE: February 18, 2025

PROSPECT POINTE WEST

Prospect Pointe West is a four-phase single-family residential development project, on an ~67 acre parcel of land zoned R-4 an Urban Residential District. The development is located on the southwest corner of Geddes Road and Prospect Road, west of Hunters Creek Drive in the northeast quarter of Section 33. The applicant is proposing to develop Prospect Pointe West as a 157-unit site condominium.

The four (4) phases consist of the following number of units:

- Phase 1 39 units
- Phase 2 45 units
- Phase 3 26 units
- Phase 4 47 units

The proposed lot dimensions are 66' x 130' with a minimum lot size of 8,580 sf. The homes will range in size from 2,000 to 3,200 sf with sales prices starting in the \$400,000s. The development has private roads with sidewalks on both sides and will be serviced by public sanitary sewer which will be designed as an extension of the existing Prospect Pointe development. Public water will also be extended from the existing subdivision. Each of the phase of the development is required to go through the Final Site Plan process.

The Final Site Plan for Prospect Pointe West Phase 1 (STPC #22-03) was approved by action of the Superior Township Planning Commission on April 26, 2023, and includes 39 single family lots. Building permits for individual homes are being issued and construction has commenced.

The Final Site Plan for Prospect Pointe West Phase 2 (STPC #24-01) was approved by action of the Superior Township Planning Commission on May 22, 2024, and includes 45 single family lots. The Development Agreement for Phase 2 has been recorded and a preconstruction meeting was held on September 10, 2024.

The Final Site Plan for Prospect Pointe West Phase 3 (STPC #25-01) was received by the Township in December 2024. Planning, Engineering, and Fire review memos were sent to the applicant on February 18, 2025. The applicant needs to satisfactorily address reviewer comments prior to being presented to the Planning Commission for consideration.

BROOKWOOD

Brookwood is a Master Planned Community on an ~84 acre parcel of land zoned Planned Community (PC) a Special District. The development is located on the east side of Leforge Road approximately 700 feet north of Clark Road in the southwest corner of Section 33. The applicant is proposing to develop Brookwood with 318 dwelling units divided into three (3) residential dwelling product types (i.e., stacked flats, duplex units, four-plex units, and attached townhomes).

The development is designed for renters and owners plus a section dedicated for people over 55 years of age. Stacked flats and duplexes are anticipated to rent from \$1.50 - \$2.50 per square foot. The townhomes will be for sale and priced per unit according to the market. The development will also include a clubhouse, amenity areas, paved parking areas, landscape improvement, and a continuous sidewalk network along private drives throughout the development and walking paths that connect amenities with various areas of the development. Existing public water and sanitary sewer mains will be extended to serve the development.

The Brookwood Superior Area Plan Amendment was approved at second reading by the Township Board on May 20, 2024.

The Brookwood Superior Preliminary Site Plan (STPC #23-05) was approved by action of the Superior Township Planning Commission on May 22, 2024, with the following conditions:

- 1) Address all items in the Township Engineers May 9, 2024, review.
- 2) Provide additional details on Natural Feature Plan including how the 25% slopes will be protected, and their integrity remain intact.
- 3) Provide a more detailed landscape plan that meets all landscape, screening, and woodland preservation requirements.
- 4) Provide lighting and photometric plan.
- 5) Provide a detailed narrative of the architectural concept for the site including materials details.

The applicant submitted a Final Site Plan (rev November 18, 2024). All review memos (Planning, Engineering, and Fire) were forwarded to the applicant on or before January 30, 2025. The applicant needs to satisfactorily address reviewer comments prior to being presented to the Planning Commission for consideration. The Brookwood team has not submitted revised plans to date. Engineering and Planning review comments were substantive and may require some time to address.

GARRETT'S SPACE

Garrett's Space is proposed to be a residential center where young adults suffering from depression and anxiety are treated. The facility will include both inpatient and daily services, with a non-medical and non-institutional focus. Garrett's Space is proposed on seven (7) parcels that will be combined into one lot totaling approximately 76.0 acres. The property has historically been used as a single-family residence with

an address of 3900 Dixboro Road and is in Section 7 of the Township. The site includes significant natural resources including woodlands, steep slopes, a creek, floodplain, and wetlands.

The applicant proposes the following improvements:

- 1) Convert the existing home on the site to administrative offices
- 2) Construct a 10,100 square foot building to house 15 to 20 residents
- 3) Construct a 2,100 square foot building for recreational and therapy activities
- 4) Construction of a parking lot
- 5) Landscaping improvements
- 6) Create walking paths and lookouts through the site's natural features.
- 7) Expanding the sites well and sceptic system
- 8) Construct two (2) stormwater detention ponds

The applicant proposes a phased development:

- Phase 1: Use of the existing house for administrative offices and day programming. This phase does not include any overnight guests.
- Phase 2: Construction of the residential structure and creativity studio with parking areas, and utility and landscaping improvements. This phase includes expanded day programming and overnight residents.
- Phase 3: Additional ancillary elements, including the barn for gardening and therapeutic animals, and outdoor recreation and gathering spaces, will be constructed as funding allows.

Previous Township approvals are as follows:

- Property was rezoned from A-2 to Planned Community (PC) Special District via an Area Plan petition approved by the Township Board on July 17, 2023.
- The applicant recorded a Zoning and Land Use Agreement dated October 16, 2023, that limits uses, the number of residents and the number of employees.
- A Preliminary Site Plan (STPC 23-03) was approved by the Planning Commission with conditions on January 24, 2024.
- A Final Site Plan (STPC 23-03) was approved by the Planning Commission on September 25, 2024, with the following conditions:
 - 1) Obtain all outside agency approvals permits outlined in Township Engineer's memo dated 9/19/24.
 - 2) Combine existing seven (7) parcels into one parcel prior to receiving certificate of occupancy.
 - 3) Record conservation protection prior to certificate of occupancy.
- A Development Agreement was approved by the Township Board on October 21, 2024.

To date, the applicant has completed Final Site Plan conditions #1 and #2 and is working on completing condition #3.

- 1) OHM's review of the Engineering Plans submittal (dated 12/20/24) is attached and they have no exceptions to the proposed development moving forward as shown on the plans as submitted.
- The seven (7) parcels have been combined into one and a new parcel assigned (J -10-07-200-021). Furthermore, the Township Assessor has changed the zoning of this new parcel to PC.
- 3) The Township received a letter from the Washtenaw County Parks and Recreation Commission (WCPRC) dated January 6, 2025 (attached). The letter indicates that the Natural Area Technical Advisory Committee (NATAC) nominated the conservation area associated with Garrett's Space as a Tier One Priority. The letter notes, "The litigation regarding zoning will need to be settled prior to WCPARC accepting the conservation easement". In response of the "litigation regarding zoning" Garrett's Space and the Township are pursuing a Conservation Deed Restriction on 58 of the property's 77 acres to address the conservation protection requirements that are a condition of the final site plan approval. To clarify, the approved Development Agreement requires the conservation protection to be recorded prior to Certificate of Occupancy (CO) for the main residential structure to be newly constructed (Phase 2). A CO may be issued for the Phase 1 portion of the project if all building and fire codes and requirements are met for the change of use.

ZONING BOARD OF APPEALS

The following three (3) cases scheduled to be reviewed at a ZBA meeting on February 27, 2025:

- 1) **ZBA #24-02 5766 Geddes Road** Continuance of an appeal the Township Zoning Administrator's decision to grant a certificate of zoning compliance for a building permit requested by Daniel Snyder for construction on 5766 Geddes Road.
- ZBA #24-03 7486 Plymouth-Ann Arbor Road Accessory Structure Variance from Section 3.101 (Dimensional Standards) to allow an attached accessory structure to be constructed in the front yard setback.
- 3) **ZBA #24-04 5766 Geddes Road** Request ZBA interpretation of zoning ordinance text and appeal the Township Zoning Administrator's decision to deny a boundary adjustment request for 5766 Geddes Road.

The following application was received on March 12, 2025:

1) **ZBA #25-01 - 3420 Deward** - Variance from Section 3.101 (Dimensional Standards) to allow a proposed single family dwelling addition to encroach into the required 50 ft rear yard setback.

Per bylaws, the ZBA consists of seven (7) regular and two (2) alternates members appointed by the Township Board. One (1) of the members must be a member of the Township Planning Commission and

one member may be a member of the Township Board. The remaining members must reside in the unincorporated areas of the Township and represent the population distribution and various interests present. Current ZBA members include:

- Thomas Brennan, (Chair & PC Member)
- Rachel Smith
- Dana Greene (BOT)
- Guy Conti
- Meghan Winslow
- Jack Gilbreath

One (1) ZBA position remains vacant and the Township is accepting applications.

Historically, the Township has not had regular scheduled ZBA meetings and has been convening as needed. This is not efficient, and it is recommended that regular meeting be scheduled for the 2nd Wednesday of the month; if there are no agenda items, the meeting would be cancelled. The schedule will be voted on at the next ZBA meeting scheduled for February 27, 2025.

PLANNING COMMISSION

The next Planning Commission meeting is scheduled for February 26, 2025. Public Hearing agenda items to be reviewed at this meeting includes:

STPC #25-02 Conditional Use Permit/Preliminary Site Plan - DTE Electric to expand the existing Grenada Electric Substation

Final site plans submitted for Brookwood (STPC 23-05) and Prospect Pointe West Phase 3 (STPC 25-01) are the new petitions submitted for the Planning Commission to consider at a future meeting. It is anticipated that these items will be reviewed at the March or April Planning Commission meeting.

Besides these agenda items, the Zoning Ordinance Rewrite Steering Committee (appointed by the Township Board on October 21, 2024) will be convening. Three (3) Planning Commissioners (Jay Gardner, Thomas Brennan, and Nahid Sanii-Yahyai) were identified to serve on this Steering Committee; to date, steering committee meetings have been held on December 18, 2024 and January 15, 2025.

Per bylaws, the Planning Commission shall consist of seven (7) members serving for three (3) year terms with eligibility for re-appointment. One member of the Township Board shall be appointed to the Planning Commission as an ex officio member and Township Board Representative, with full voting rights. The current Planning Commission is comprised of following members:

•	Jay Gardner, Chair	(Term expires 2/28/2026)
•	Robert Steele, Vice Chair*	(Term expires 2/28/2028)
٠	Thomas Brennan, Secretary	(Term expires 2/28/2027)

•	Patrick McGill	(Term expires 2/28/2027)
•	Brenda McKinney– Board Rep.	(Term expires 11/7/2028)
•	Nahid Sanii-Yahyai	(Term expires 2/28/2026)
•	Curt Wolf	(Term expires 1/01/2028)

*Robert Steel was reappointed on February 18, 2025.

OTHER BUSINESS/NEWS

- Diane Muville-Friel of Carlisle Wortman Associates (CWA), continues to serve as the Township Planning and Zoning Administrator as approved by the Board of Trustees at their meeting on May 20, 2024. Over the last nine (9) months, she has reviewed approximately 193 Certificates of Zoning Compliance and responded to 270+ phone calls and email inquiries from the general public. She also manages and attends the ZBA and Planning Commission meetings and responds to Board of Trustee inquiries.
- 2) Carlisle Wortman Associates staff also serve in the role as the Township Planner and review and manage projects that are paid from escrows including applicant inquiries and project coordination.

Attach:

Garrett's Space - OHM's review of the Engineering Plans submittal (dated 12/20/24) Garrett's Space - Washtenaw County Parks and Recreation Commission (dated January 6, 2025)



February 13, 2025

Midwestern Consulting, LLC 3815 Plaza Drive Ann Arbor, MI 48108

Attention: Heath Hartt, PE

Regarding: Garrett's Space Engineering Plan – Review No. 3 OHM Job No. 0140-23-1040

Dear Mr. Hartt,

On behalf of Superior Township, we have reviewed the Engineering Plan submittal for the above referenced project, as submitted to the Township with a revision date of January 28, 2025. We have reviewed the submittal consistent with the requirements for engineering plans based on the Township Engineering Standards. Below is a summary of our review:

Engineering Plan Review

Based on our review of the most recent version of the plans noted above, we take no exception to the proposed development moving forward, as shown on the engineering plans. We request that prior to a pre-construction meeting, four (4) sets of printed sealed engineering plans, two (2) sets including full size sheets and the other two with 11" x 17" reduced size sheets, be submitted to the township engineer for use during construction. These plans should be noted to be "For Construction" and should be delivered to OHM Advisors, 355 South Zeeb Road, Suite A, Ann Arbor, MI 48103, attention: Chris Donajkowski.

A pdf of these "For Construction" plans should also be emailed to OHM.

Requirements Prior to Construction

A pre-construction meeting is to be held prior to the commencement of construction at the site. This meeting will be led by OHM Construction staff. In order to schedule this pre-construction meeting, the following items are required:

- a. Contractors' construction schedule for completion of the project.
- b. A copy of the following permits must be received by OHM Advisors:
 - a. Part 303 Wetlands Protection permit by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) (Permit No. WRP043932V.1 has been received)
 - b. A Soil Erosion and Sedimentation Control (SESC) permit issued by Washtenaw County Water Resources Commissioner's Office (WCWRC)
 - c. A right-of-way permit related to work in the Dixboro Road right-of-way issued by Washtenaw County Road Commission (WCRC)



- d. A Well Permit issued by the Washtenaw County Health Department (WCHD) Environmental Health Division (Permit No. WELL2024-0074 has been received)
- c. Payment of the initial Construction Inspection Escrow of \$27,500.00 as well as any remaining invoices for the engineering review stage must be received by Superior Township.
- d. Insurance Certificates and Endorsements from the Contractor should be provided in the types and limits of coverage as specified in the Township's standards (per attachments). The name of the project shall be on all Certificates and Endorsements for identification referencing. The Certificates shall have a thirty (30) day written cancellation notice instead of the typical "...will endeavor to provide a ten (10) day notice..." phrase. The additionally insured Endorsements for the Owner's and Contractor's Public Liability and Property Damage Insurance shall include Charter Township of Superior, the Township Board and individual members thereof, the Township Engineer (OHM Advisors) and members of their staff. The Insurance Certificates and Endorsements should be reviewed and accepted by the Township prior to construction.
- e. A copy of the recorded conservation agreement required by the Superior Township Planning Commission as a condition of the Final Site Plan approval, or a copy of deed restrictions placed on the property as an interim until the completion of conservation agreement (if approved by the Township) are to be received by the Township prior to scheduling the pre-construction meeting.

Bond Requirements

The Applicant is required to provide the following bonds for this project as identified in the development agreement and as follows:

a. Financial assurance for the proposed site work are required prior to the pre-construction meeting. Based on the Engineer's Opinion of Probable Cost dated October 7, 2024, the required amount of this performance guarantee is \$570,295.50. The Applicant shall provide performance guarantees prior to the scheduling of the pre-construction meeting with the Township Treasurer's Office, in the form of cash, certified check, irrevocable letter of credit, or surety bond acceptable to the Township (whichever Applicant may elect), payable to the Charter Township of Superior.

Project Completion and As-Builts

The final acceptance of this project after construction is contingent upon Township acceptance, relevant agency approvals, receipt of record set plans, grading certifications during building construction, payment of any outstanding escrow fees, and final site approval by Township Consultants.

The standards for submitting digital as-built drawings will be provided to the Applicant at the pre-construction meeting. Digital as-builts in the form of flash drive or other acceptable electronic submittal, and (2) sets of black line drawings shall be submitted to our office following completion of site work, and prior to substantial completion of the project.

Garrett's Space February 13, 2025 Page 3 of 3



A pre-construction meeting can be scheduled for this project once all required fees, letters of credit, documents and permits have been issued.

Sincerely, OHM Advisors

Cresson Slotten, PE Senior Project Manager

cc: Emily Dabish Yahkind, Township Supervisor (via email) Angela Robinson, Township Clerk (via email) Bill Balmes, Building Department (via email) Dan Kimball, Fire Marshal (via email) Diane Mulville-Friel, CWA, Township Zoning Administrator (via email) Ben Carlisle, CWA, Township Planner (via email) George Tsakoff, OHM Advisors Claire Martin, OHM Advisors Chris Donajkowski, OHM Advisors Candice Briere, Midwestern Consulting (via email)

file

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Washtenaw County Parks and Recreation Commission

Emily Dabish Yahkind, Supervisor 3040 North Prospect Road Superior Township, MI 48198 January 6th, 2025

NOTICE OF ROUND 24 PRIORITIES FOR NATURAL AREA PRESERVATION PROGRAM

Dear Supervisor Yahkind,

We are writing to inform you of the active land preservation priorities adopted by Washtenaw County Parks and Recreation Commission's (WCPARC) Natural Area Preservation Program (NAPP) for Round 24 (year 2024), as two properties in Superior Township were included in Tier One and Tier Two priorities. Depending upon the landowner's preference, WCPARC may pursue purchase of a property to establish or expand a nature preserve, or purchase of a conservation or trail easement on the property. Alternatively, WCPARC may receive a donation for conservation, or financially participate in another local preservation program's efforts. The prioritized properties in Superior Township are highlighted in the attachments. As you will note, Garrett's Space is noted as a Tier 1 priority, which we understand is a contingency of the site development agreement. The litigation regarding zoning will need to be settled prior to WCPARC accepting the conservation easement.

NAPP was established in 2000 to protect natural areas in Washtenaw County. Landowners voluntarily nominate their land for protection to the program, and nominated properties are reviewed according to the property screening system developed by the Natural Area Technical Advisory (NATAC). During the 24th round of nominations, 26 properties were submitted for consideration across 10 townships. The attached recommendations were developed by NATAC and ALPAC at their October 2024 meetings and subsequently adopted by the Parks and Recreation Commission in November.

Please contact Allison Krueger, kruegera@washtenaw.org or Ginny Leikam, leikamg@washtenaw.org, with any questions you have regarding the priority list. Please also contact us if Superior Township is interested in supporting the acquisition by being a financial partner.

Sincerely,

Allison Krueger Stewardship Planner



Washtenaw County Parks and Recreation Commission

MEMORANDUM

To:	Washtenaw County Parks and Recreation Commission
From:	Coy P. Vaughn, Director
Date:	November 12, 2024
Re:	Recommendation for Round 24 NATAC Priorities

At their October 2024 meeting, the Natural Area Technical Advisory Committee (NATAC) evaluated 26 nominations. Of the 26 nominations, 21 site were visited by NATAC. All site visits resulted in completed field review worksheets. The remaining properties were adjacent to existing protected or nominated land. NATAC reviewed field worksheets, prioritization data, and property maps to determine the "highest priority" for protection for the nominations received in 2024.

Property Name	Acres	Township	Acquisition Type	Lead Org.
Zellner	14	Northfield	Fee Simple	WCPARC
Garretts Space	77	Superior	Conservation Easement	WCPARC
Brundson (portion)	57	Sharon	Fee Simple	WCPARC
Schuck	50	Northfield	Trail Easement	WCPARC
Barnett	.52	Northfield	Fee Simple	WCPARC
Roller Waters	133	Manchester &	Conservation Easement	Legacy Land
		Bridgewater		Conservancy
Houle	41	Sharon	Conservation Easement	Legacy Land Con.
Schoen	20	Manchester	Conservation Easement	Legacy Land Con.
Dieterle*	85	Ann Arbor	Conservation Easement	Ann Arbor Township
R & R Farms*	44	Ann Arbor	Conservation Easement	Ann Arbor Township
Bennett	76	Dexter	Conservation Easement	Dexter Township
Esch*	93	Dexter	Conservation Easement	Dexter Township
Schwarck	80	Webster	Conservation Easement	Webster Township

Tier One Priority: Move forward with appraisals or negotiations.

* Property is also a priority for ALPAC. Funds will be split between 2 budgets.

Tier Two Priority: More information is needed before moving forward.

Property Name	Acres	Township	Acquisition Type	Lead Org.
Anchor	48	Ypsilanti	Fee Simple	WCPARC
Reality/RPY46 -				
Emmett*	29	Superior	Fee Simple	WCPARC
Hoff Sisung	78	Manchester	Conservation Easement	WCPARC
Dimo	43	Dexter	Conservation Easement	Dexter Township
Clark	30	Dexter	Conservation Easement	Dexter Township
Pheasant Hollow	112	Northfield	Conservation Easement	Greenbelt

Northfield	
Berquist** 55 Webster C	Conservation Easement Webster Township

** NATAC prioritization is contingent limiting any development on this property.

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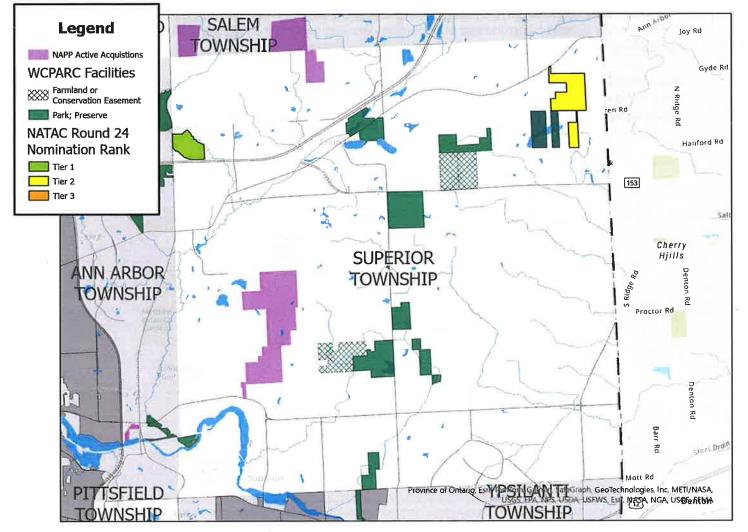
Tier Three: Recommend to not move forward/do not participate in project.

Property Name	Acres	Township	Acquisition Type	Lead Org.
Nester	3	Dexter	Conservation Easement	Dexter Township
Dettore	40	Dexter	Conservation Easement	Dexter Township
Mertz	71	Dexter	Conservation Easement	Dexter Township

The Natural Area Technical Advisory Committee presents the above recommendation for your consideration. The Committee is available to address any questions you may have concerning the recommendation and members can be available to attend a future Commission meeting.

Recommendation: Based on staff and NATAC's review and site visits of Round 24 nominations, I recommend that the Washtenaw County Parks and Recommendation Commission adopt the priorities as outlined in the memo above.

NATAC ROUND 24 TIER RANKING TOWNSHIP MAPS SUPERIOR TOWNSHIP



SUPERIOR CHARTER TOWNSHIP PLANNING COMMISSION SUPERIOR TOWNSHIP HALL 3040 N. PROSPECT, YPSILANTI, MI 48198

WEDNESDAY, FEBRUARY 26, 2025 7:00 p.m.

STPC#25-02

The Superior Township Planning Commission will hold a public hearing on **Wednesday**, **February 26, 2025, at 7:00 p.m.** at the Superior Township Hall, 3040 N. Prospect., Ypsilanti, MI 48198, on an application from DTE Electric Company for a Conditional Use Permit to expand the existing Grenada Substation.

The property is located on the east side of N. Dixboro Road, south of Plymouth Road (J - 10-18-261-012) and is zoned R-4 (Single-Family Residential).

A complete copy of the petition is available for inspection or copying at the Township Hall 9:00 a.m. -4:00 p.m. weekdays. Persons wishing to express their views may do so in person at the public hearing, or in writing addressed to the Zoning Board of Appeals at the above address. Superior Township will provide necessary reasonable auxiliary aids and services to individuals with disabilities upon four (4) business days notice to the Township. Individuals requiring auxiliary aids or services should contact Superior Charter Township by writing the Township Clerk.

Diane Mulville-Friel 3040 N. Prospect Ypsilanti, MI 48198 734-482-6099



CONDITIONAL USE PERMI	I
APPLICATION	

(This application must be typewritten or printed. ALL questions must be answered.)

Superior Township

JAN 06 2025

Page 1 of 3

Conditional Use Permit Application

Request is hereby made for permission to obtain a conditional use permit for the property described below, for the following use: DTE Electric Substation

App	icant NameDTE Electric Company (John Erb, DTE Real Estate - Terry Spryszak, DTE Corp Permits)
App	icant Address 1 Energy Plaza - WCB, RM 1135, Detroit, MI 48226
Tele	phone 313-971-4536 FaxEmail DTEPermits@dteenergy.com
	property owned by the applicant? 🖌 YES 🗌 NO
If "N	O", what is the applicant's interest in the property?
Nan	e, address and telephone number of owner(s): DTE Electric Company
1 E	nergy Plaza, Detroit, MI 48226 313-971-4536
DES	CRIPTION OF THE PREMISES:
1.	Location of property 3270 N. Dixboro Rd., Ann Arbor, MI 48105
2.	Zoning classification of property R-4
3.	Adjoining land uses & zoning classifications R1 to the south (residential properties).
	PSP to the east (Huron Valley Tennis Club). R4 and VC to the north (residential properties).
4.	Tax code number J-10-18-261-012
5.	Size of property or lot 3.76 Acres
6.	Size of proposed building or addition (if any) NA
7.	Use of existing building (if any) and property NA
	If a new building is proposed, has the Building Inspection department examined
	the plans for the proposed building? 🗌 YES 🗹 NO
	Has the department refused a permit? TYES 🔽 NO
8.	Has there been any previous land use application involving this property?
	☐YES INO If YES, state date of filing, character of appeal and disposition of same
	DTE built and has operated the Grenada Substation on this property since the 1990's, but no zoning use records exist.

The following items are attached as part of the Conditional Use Permit Application:

1. A scaled and accurate survey drawing, correlated with the legal description and showing all existing buildings, drives and other improvements.



2. A letter of authority, or power of attorney, in case the appeal is made by a person other than the actual owner of the property.

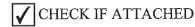


CHECK IF ATTACHED

3. Complete legal description of the premises (as stated on your deed or tax bills available in the Treasurer's Office).



4. A detailed description of the proposed use.



- 5. A site plan, either a.or b.
 - a. A site plan, meeting all the requirements of a preliminary site plan as set forth in Article 10 of the Superior Charter Township Ordinance.



OR

b. A site plan, meeting all the requirements of a minor site plan as set forth in Article 10 of the Superior Charter Township Zoning Ordinance.

CHECK IF ATTACHED

6. A signed copy of the Applicant's Acknowledgment. (See attachment)



NOTICE TO APPLICANT: You are hereby advised to refer to the Superior Charter Township Zoning Ordinance for a description of your property's zoning classification, as well as Article 11 (Conditional Uses) and Article 10 (Site Plan Review); and any other sections of the Zoning Ordinance which may be applicable.

Superior Township Conditional Use Permit Application Page 3 of 3

APPLICANT AFFIDAVIT

The applicant(s) represents that he/she/they are the owner(s) of the subject property or are acting on behalf of the above listed owner.

I hereby depose and certify that all information contained in this application, all accompanying plans and all attachments are complete and accurate to the best of my knowledge.

APPLICANT'S PRINTED NAME: John Erb, Manager DTE Real Estate
APPLICANT'S SIGNATURE DATE 12/17/2024
PROPERTY OWNER'S PRINTED NAME John Erb, Manager DTE Real Estate
PROPERTY OWNER'S SIGNATURE

To be filled in by Township Clerk (or designated Township Officer/Personnel) I hereby state that this petition was properly received and filed on $\frac{1/b/25}{25}$ (date)
Signature of Clerk (or designee)
DIANE MULVILLE-FRIEL
Fee paid \$500,00 + \$2,500 Escred



PROJECT DESCRIPTION

THIS PROJECT IS TO CONSTRUCT AN ELECTRICAL SUBSTATION WHICH WILL IMPROVE POWER RELIABILITY IN THE SURROUNDING AREAS. WORK INCLUDES OVERHEAD SUPPORT STRUCTURES, LIGHTNING MASTS, TRANSFORMERS, CIRCUIT BREAKERS, POWER DISTRIBUTION CONTROL EQUIPMENT, ITC CONTROL HOUSE, ACCESS DRIVES WITH SECURITY FENCE AND LIGHTING.

GRENADA SUBSTATION IS AN UN-OCCUPIED ELECTRIC SWITCHING/DISTRIBUTION SUBSTATION, AFTER CONSTRUCTION IS COMPLETE, AN OPERATOR WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH TO PERFORM ROUTINE MAINTENANCE AND DATA COLLECTION.

LEGAL DESCRIPTION

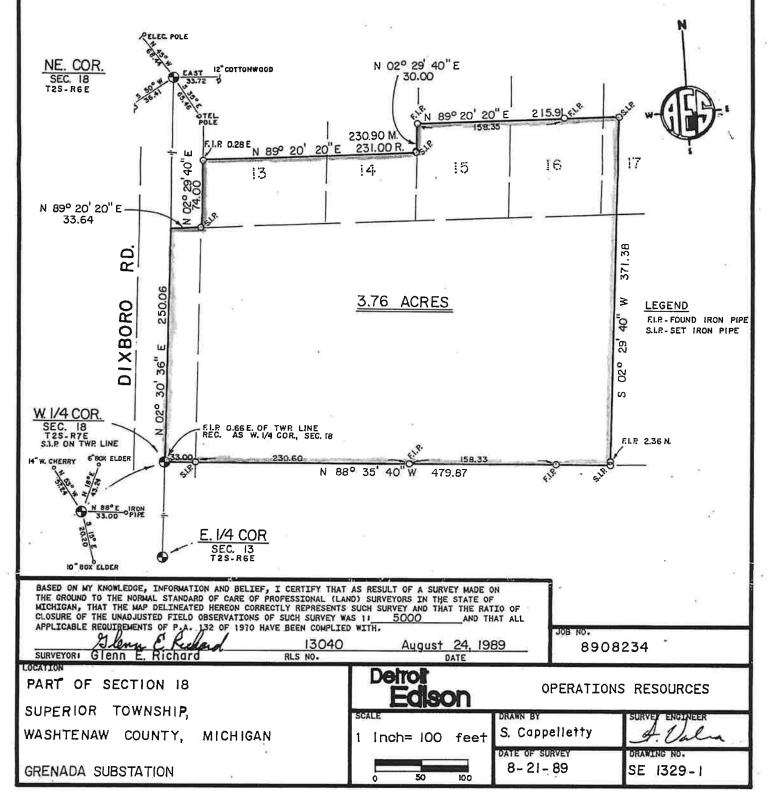
ALL THE PART OF SECTION 18, TOWN 2 SOUTH, RANGE 7 EAST, SUPERIOR TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, DESCRIBED AS BEGINNING AT THE WEST 1/4 CORNER OF SECTION 18, AFORESAID; THENCE NORTH 02°30'36" EAST, 250.06 FEET ALONG THE WEST LINE OF SAID SECTION 18, (BEINC COMMON TO THE EAST LINE OF SECTION 13, TOWN 2 SOUTH, RANGE 6 EAST); THENCE NORTH 89°20'20" EAST, 33.64 FEET TO THE SOUTHWEST CORNER OF LOT 13 ON THE PLAT OF THE VILLAGE OF DIXBORO, AS RECORDED IN LIBER A ON PAGE 272, WASHTENAW COUNTY RECORDS; THENCE NORTH 02°29'40" EAST, 74.00 FEET ALONG THE WEST LINE OF SAID LOT 134; THENCE NORTH 89°20'20" EAST, 230.90 FEET (ALSO RECORDED AS 231.00 FEET); THENCE NORTH 02°29'40" EAST, 30.00 FEET ALONG THE LINE COMMON TO LOTS 14 AND 15 ON SAID PLAT OF THE VILLAGE OF DIXBORO; THENCE NORTH 88°35'40" WEST, ALONG THE SOUTH 02°29'40" WEST, 371.38 FEET; THENCE NORTH 88°35'40" WEST, ALONG THE SOUTH 02°29'40" WEST, 371.38 FEET; THENCE NORTH 88°35'40" WEST, ALONG THE SOUTH LINE OF THREE PARCELS OF LAND AS MONUMENTED AND DESCRIBES IN WARRANTY DEEDS RECORDED IN LIBER 1528, PAGE 598, LIBER 1535, PAGE 253, AND LIBER 1674, PAGE 890, WASHTENAW COUNTY RECORDS TO THE POINT OF BEGINNING, BEING PART OF LOTS 13, 14, 15, 16, AND 17 ON THE SAID PLATE OF THE VILLAGE OF DIXBORO. RESERVING AN EASEMENT FOR THE INSTALLATION AND MAINTENANCE OF UTILITY LINES AND EQUIPMENT OF THE SOUTHERLY 20 FEET OF THE SUBJECT PROPERTY FOR THE BENEFIT OF THE PROPERTY LYING ADJACENT AND TO THE EAST OF THE ABOVE DESCRIBED PROPERTY.

CERTIFICATE OF SURVEY

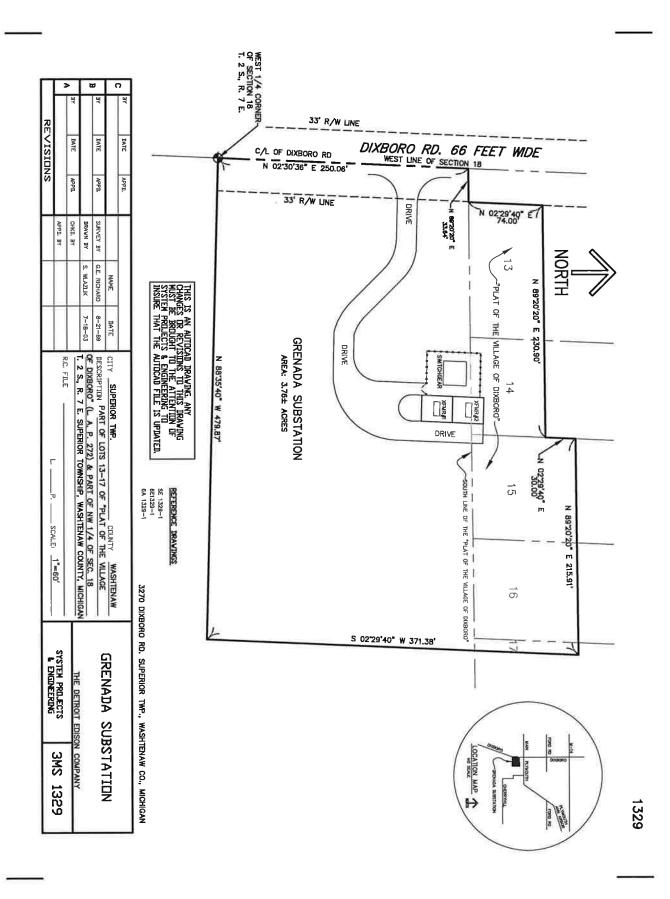
Description Superior Township, Washtenaw County, Michigan

All that part of Section 18, Town 2 South, Range 7 East, described as beginning at the West 1/4 corner of Section 18, aforesaid; thence N 02° 30' 36" E 250.06 feet along the west line of said Section 18, (being common to the east line of Section 13, Town 2 South, Range 6 East); thence N 89° 20' 20" E 33.64 feet to the Southwest corner of Lot 13 on the Plat of the Village of Dixboro as recorded in Liber A on Page 272, Washtenaw County Records; thence N 02° 29' 40" E 74.00 feet along the west line of said Lot 13; thence N 89° 20' 20" E 230.90 feet (also recorded as 231.00 feet); thence N 02° 29' 40" E 30.00 feet along the line common to Lots 14 and 15 on said Plat of the Village of Dixboro; thence N 89° 20' 20" E 215.91 feet; thence S 02° 29' 40" W 371.38 feet; thence N 88° 35' 40" W 479.87 feet along the south line of three parcels of land as monumented and described in Warranty Deeds recorded in Liber 1528 on Page 598 and in Liber 1535 on Page 253 and in Liber 1674 on Page 890, Washtenaw County Records to the point of beginning, being part of Lots 13, 14, 15, 16 and 17 on the said plat of the Village of Dixboro. Containing 3.76 acres.

Subject to highway easements and other easements and restrictions of record, if any.



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SITE PLAN REVIEW **APPLICATION**

(This application must be typewritten or printed. All questions must be answered.)

Superior Township

JAN 06 2025

DEPARTNEND

Revised 04/30/19

Site Plan, Review Application

APPLICANT NAME DTE Electric Company

NAME OF PROPOSED **DEVELOPMENT** DTE Grenada Substation

PRELIMINARY SITE PLAN APPLYING FOR D FINAL SITE PLAN COMBINED PRELIMINARY AND FINAL SITE PLAN (Combination is at discretion of Planning Commission) D MINOR SITE PLAN DIMAJOR/MINOR CHANGE DETERMINATION □ ADMINISTRATIVE REVIEW

WILL PROJECT BE PHASED? D YES INO

IF PROJECT IS PHASED COMPLETE THE FOLLOWING:

- Total number of phases _
- Phase number of current application
- Name and date of preliminary site plan approval

Date of Previous Pha	se Approvals:
Phase #	Date

SEEKING ADDITIONAL APPROVAL FOR A CONDITIONAL USE SEEKING ADDITIONAL APPROVAL FOR A CONDITIONAL USE

(- m)DIANE MULVILLE-FRIEL

Signature of the Clerk or Designee

 $\frac{1/6/2025}{\text{Date of Receipt of Application}}$

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\$900 APPLICATION + \$5,000 ESCROW

Amount of Fee

Superior Charter Township, 3040 N. Prospect Rd., Ypsilanti, MI 48198 Telephone: 734-482-6099 Website: superiortownship.org Fax 734-482-3842

Superior Township Site Plan Review Application Page 2 of 5 Revised 04/30/19

GENERAL INFORMATION

•	Name of Proposed Development_DTE Grenada Substation	
•	Address of Property 3270 N Dixboro Road, Ann Arbor, MI 48105	
٠	Current Zoning District Classification of Property R4	
	Is the zoning classification a Special District as defined by Article 7 ? YES XNO	
•	Has this property been the subject of a rezoning request, Zoning Board of Appeals petition or other Township action with the past five (5) years? \Box YES \bigotimes NO	
	Please explain	
2. .	Tax ID Number(s) of property_J-10-18-261-012	
•	Site Location - Property is located on (circle one) N SEW side of <u>N. Dixboro</u> Road between <u>Plymouth/Ann Arbor Road</u> and <u>Ravine Ct</u> Roads.	
•	Legal Description of Property (please attach a separate sheet) Where a metes and bounds description is used, lot line angles or bearings shall be indicated on the plan. Lot line dimensions and angles or bearings shall be based upon a boundary survey prepared by a registered surveyor and shall correlate with the legal description.	
Site Are	a (Acreage) and Dimensions	
•	Are there any existing structures on the property? X YES D NO Please explain: The property has been utilized as a DTE Electric Substation since the 1990's. There property contains High Voltage electric transformers and control equipment. There are no occupiable building structures	
	contains migh voltage electric transformers and control equipment. There are no occupiable building structures	

on the property.

Superior Township Site Plan Review Application Page 3 of 5 Revised 04/30/19

PROPOSED LAND USE

□ Residential □

□ Office

Commercial

□ Other

If other, please specify_____

- Number of units NA
- Total floor area of each unit NA
- Give a complete description of the proposed development.
 DTE will expand the current substation and will replace and upgrade the transformers and control equipment. New landscaping and fencing will also be installed.

ESTIMATED COSTS

- Buildings and other structures \$7,000,000.00
- Site improvements \$4,000,000.00
- Landscaping \$200,000.00
- Total \$11,200,000.00

ESTIMATED DATES OF CONSTRUCTION

- Initial construction 4/1/2025
- Project completion 9/30/26
- Initial construction of phases (IF APPLICABLE)
- Completion of subsequent phases. (IF APPLICABLE)
- Estimated date of first occupancy NA

IDENTIFY EACH DRAWING SUBMITTED BY NAME OF PLAN OR DRAWING, DATE AND DRAWING NUMBER (ATTACH ADDITIONAL SHEET IF NECESSARY)

5A1329-1 Site Plan

5A1329 - 2 Lansdscape Plan

5A1329-3 Masonry Transformer Eclosure Plan 5A1329-4 Existing Conditions Plan

Superior Charter Township, 3040 N. Prospect Rd., Ypsilanti, MI 48198 Telephone: 734-482-6099 Website: superiortownship.org Fax 734-482-3842

	APPLICANTS NAME
	DTE Electric Company
	Address
	Telephone Number 313-971-4536 DTEPermits@dteenergy.com
•	PROPERTY OWNER'S NAME John Erb, DTE Real Estate
	Company
	Address 1 Energy Plaza, WCB Rm 1935, Detroit, MI 48226
	Telephone Number 313-235-8321 john.erb@dteenergy.com
•	DEVELOPER'S NAME
	Company DTE Energy
	Address 1 Energy Plaza, Detroit, MI 48226
	Telephone Number 313-971-4536 Email
•	Engineer's NAME
	CompanyDTE Energy
	Address 1 Energy Plaza, Detroit, MI 48226
	Telephone Number
•	ARCHITECT/PLANNER'S NAME Greg Eskola (Black & Veatch)
	Company Black & Veatch
	Address 3550 Green Ct, Ann Arbor, MI 48150
	Telephone Number 734-622-8529 Email EskolaGJ@bv.com

Superior Charter Township, 3040 N. Prospect Rd., Ypsilanti, MI 48198 Telephone: 734-482-6099 Website: superiortownship.org Fax 734-482-3842 The applicant indicated on page 4 must sign this application. All correspondence regarding the application and plan will be directed to the applicant. If the applicant is not the property owner, the owner's signed consent must also be provided with this application.

APPLICANT'S DEPOSITION

I hereby depose and certify that all information contained in this application, all accompanying plans and all attachments are complete and accurate to the best of my knowledge.

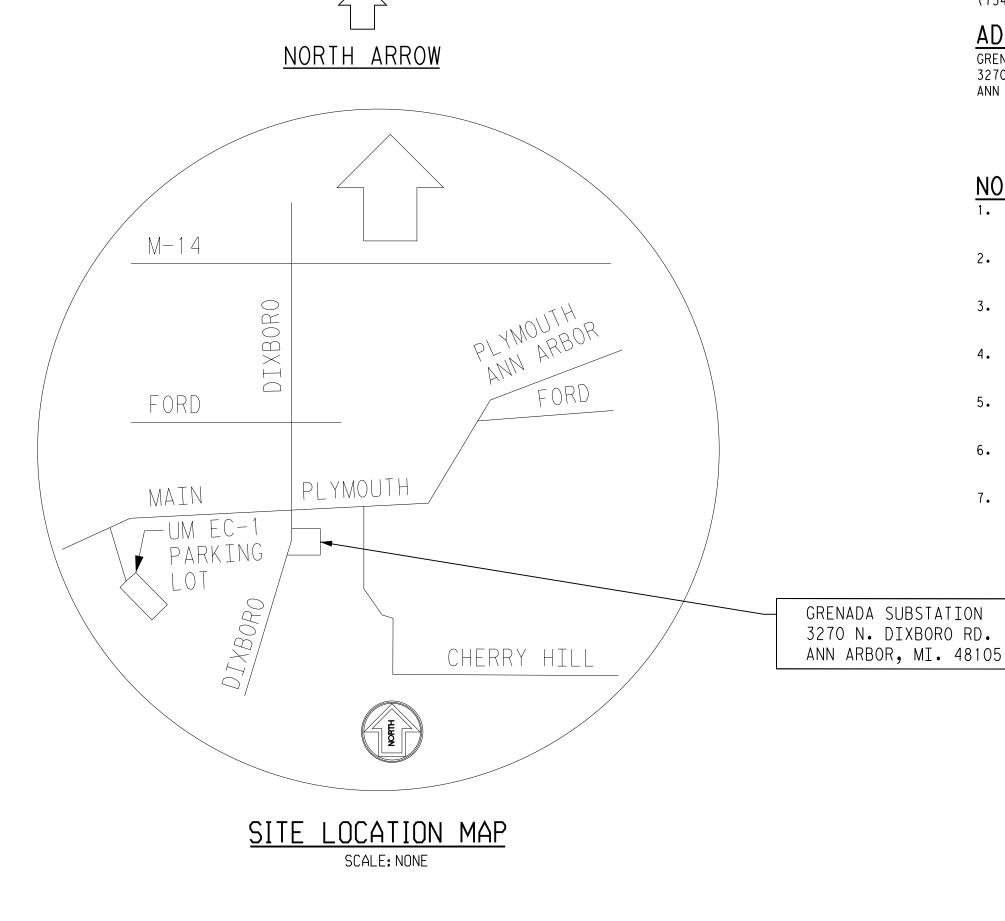
APPLICANT'S PRINTED NAME: John Erb	
APPLICANT'S SIGNATURE	DATE 121(7)2024
PROPERTY OWNER'S PRINTED NAME John Erb	
PROPERTY OWNER'S SIGNATURE	DATE 12/17/2024

DTE GRENADA SUBSTATION SIT PLAN REVIEW APPLICATION

SUBMITTED DRAWING IDENTIFICATION CONTINUED

- 5A1329-5 SITE PREPERATIONAND DEMOLITION PLAN
- 5A1329-6 FENCE AN SERVICE DRIVE PLAN
- 5A1329-7 SITE DETAILS
- 5A1329-8 SOIL EROSION AND SEDIMENTATION CONTROL PLAN
- 5A1329-9 SOIL EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS
- 5A1329-10 SUBSTATION ELEVATION SECTION VIEWS
- 5A1329-11 RESTROOM LAYOUT AND ELEVATIONS
- 5A1329-12 RESTROOM SEPTIC DESIGN
- 5M1329-1 STORMWATER MANAGEMENT PLAN
- 5M1329-2 STORMWATER DETAILS (1 OF 4)
- 5M1329-3 STORMWATER DETAILS (2 OF 4)
- 5M1329-4 STORMWATER DETAILS (3 OF 4)
- 5M1328-5 STORMWATER DETAILS (4 OF 4)





PLANNED PROJECT SUBSTATION

SITE PLAN 5A1329-1 LANDSCAPE PLAN 5A1329-2 MASONRY TRANSFORMER ENCLOSURE PLAN, ELEVATIONS & SECTIONS 5A1329-3 5A1329-4 EXISTING CONDITIONS PLAN SITE PREPARATION AND DEMOLITION PLAN 5A1329-5 FENCE AND SERVICE DRIVE PLAN 5A1329-6 5A1329-7 SITE DETAILS EROSION AND SEDIMENT CONTROL PLAN 5A1329-8 SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS 5A1329-9 SOIL SUBSTATION ELEVATION SECTION VIEWS 5A1329-10 RESTROOM LAYOUT AND ELEVATIONS 5A1329-11 5A1329-12 RESTROOM SEPTIC DESIGN 5M1329-1 STORMWATER MANAGEMENT PLAN 5M1329-2 STORMWATER DETAILS (1 OF 4) 5M1329-3 STORMWATER DETAILS (2 OF 4) 5M1329-4 STORMWATER DETAILS (3 OF 4)

STORMWATER DETAILS (4 OF 4) 5M1329-5

PROPERTY OWNER/APPLICANT/DEVELOPER:

DTE ENERGY - DTE ELECTRIC CO. ONE ENERGY PLAZA DETROIT, MI 48226-1279 (313)235-0177

ENGINEER:

BLACK & VEATCH LTD. OF MICHIGAN 3550 GREEN COURT ANN ARBOR, MICHIGAN 48105 (734) 655-1000 FAX (734) 622-8816

ADDRESS:

GRENADA SUBSTATION 3270 N. DIXBORO RD. ANN ARBOR, MI. 48105

NOTES TO CONTRACTOR:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR SECURING CONSTRUCTION PERMITS FOR ALL JURISDICTIONAL AGENCIES.
- 2. APPROVAL BY WASHTENAW COUNTY DEPARTMENT OF ROADS IS REQUIRED FOR THE PROPOSED WORK WITHIN THE ROW (INCLUDING DRIVEWAYS).
- 3. APPROVAL BY WASHTENAW COUNTY SOIL EROSION OFFICE IS REQUIRED BY THE PROPOSED ACTIVITIES.
- 4. APPROVAL BY WASHTENAW COUNTY DRAIN IS REQUIRED FOR ANY RUNOFF DISCHARGE TO A WATER COURSE.
- 5. APPROVALS BY WASHTENAW COUNTY HEALTH DEPARTMENT IS REQUIRED FOR ALL PROPOSED WELL AND SEPTIC SYSTEMS.
- 6. THE TOWNSHIP SHALL BE HELD HARMLESS FOR LIABILITIES OR DAMAGES OF ANY STORM, DRAINAGE, AND FLOODING ISSUES AS A RESULT OF THE PROPOSED ACTIVITIES.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE TO STORM WATER OUTLETS ON SITE TO ELIMINATE STANDING WATER IN VACANT AREAS DURING CONSTRUCTION.







PROJECT DESCRIPTION

THIS PROJECT IS TO CONSTRUCT AN ELECTRICAL SUBSTATION WHICH WILL IMPROVE POWER RELIABILITY IN THE SURROUNDING AREAS. WORK INCLUDES OVERHEAD SUPPORT STRUCTURES, LIGHTNING MASTS, TRANSFORMERS, CIRCUIT BREAKERS, POWER DISTRIBUTION CONTROL EQUIPMENT, ITC CONTROL HOUSE, ACCESS DRIVES WITH SECURITY FENCE AND LIGHTING.

GRENADA SUBSTATION IS AN UN-OCCUPIED ELECTRIC SWITCHING/DISTRIBUTION SUBSTATION. AFTER CONSTRUCTION I COMPLETE, AN OPERATOR WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH TO PERFORM ROUTINE MAINTENANCE AND DATA COLLECTION.

LEGAL DESCRIPTION

ALL THE PART OF SECTION 18, TOWN 2 SOUTH, RANGE 7 EAST, SUPERIOR TOWNSHIP, WASHTENAW COUNTY, MICHIGAN, DESCRIBED AS BEGINNING AT THE WEST 1/4 CORNER OF SECTION 18, AFORÉSAID; THENCE NORTH 02°30'36" EAST, 250.06 FEET ALONG THE WEST LINE OF SAID SECTION 18, (BEING COMMON TO THE EAST LINE OF SECTION 13, TOWN 2 SOUTH, RANGE 6 EAST); THENCE NORTH 89°20'20" EAST, 33.64 FEET TO THE SOUTHWEST CORNER OF LOT 13 ON THE PLAT OF THE VILLAGE OF DIXBORO, AS RECORDED IN LIBER A ON PAGE 272, WASHTENAW COUNTY RECORDS; THENCE NORTH 02°29'40" EAST, 74.00 FEET ALONG THE WEST LINE OF SAID LOT 134; THENCE NORTH 89°20'20" EAST, 230.90 FEET (ALSO RECORDED AS 231.00 FEET); THENCE NORTH 02°29'40" EAST, 30.00 FEET ALONG THE LINE COMMON TO LOTS 14 AND 15 ON SAID PLAT OF THE VILLAGE OF DIXBORO; THENCE NORTH 89°20'20" EAST, 215.91 FEET; THENCE SOUTH 02°29'40" WEST, 371.38 FEET; THENCE NORTH 88°35'40" WEST, ALONG THE SOUTH LINE OF THREE PARCELS OF LAND AS MONUMENTED AND DESCRIBES IN WARRANTY DEEDS RECORDED IN LIBER 1528, PAGE 598, LIBER 1535, PAGE 253, AND LIBER 1674, PAGE 890, WASHTENAW COUNTY RECORDS TO THE POINT OF BEGINNING, BEING PART OF LOTS 13, 14, 15, 16, AND 17 ON THE SAID PLATE OF THE VILLAGE OF DIXBORO. RESERVING AN EASEMENT FOR THE INSTALLATION AND MAINTENANCE OF UTILITY LINES AND EQUIPMENT OF THE SOUTHERLY 20 FEET OF THE SUBJECT PROPERTY FOR THE BENEFIT OF THE PROPERTY LYING ADJACENT AND TO THE EAST OF THE ABOVE DESCRIBED PROPERTY.

QUANTITATIVE SUMMARY

TOTAL ACREAGE OF LAND AREA: 3.76 ACRES

STRUCTURE SUMMARY:

- * RESTROOM: AREA = 480 SFT / HEIGHT = 8 FT / USE = UTILITY
- ITC CONTROL HOUSE: AREA = 1,318 SFT / HEIGHT = 12 FT / USE = UTILITY DTE PDC EQUIPMENT ENCLOSURE: AREA = 690 SFT / HEIGHT = 12 FT / USE = UTILITY
- FUTURE PDC EQUIPMENT ENCLOSURES: AREA = 3 AT 690 = 2,070 SFT / HEIGHT = 12 FT / USE = UTILITY LOT COVERAGE = 1.6 AC / 3.6 AC = 44% STRUCTURE COUNT ONLY INCLUDES RESTROOM AND CONTROL ENCLOSURES AND DOES NOT
- INCLUDE EXTERIOR ELECTRICAL EQUIPMENT.

SITE ZONING:

- * DESIGNATION: R4 (SINGLE FAMILY RESIDENTIAL)
- * FRONT SETBACK: 25' * REAR SETBACKS: 35'
- * SIDE SETBACKS: 16'

GENERAL NOTES

DURING CONSTRUCTION APPROXIMATELY 3.6 ACRES OF LAND WILL BE DISTURBED. THE EXPANSION OF THE SUBSTATION PAD WILL BE A TOTAL OF 1.6 ACRES AND THE REMAINING CONSTRUCTION OUTSIDE OF THE PAD WILL BE APPROXIMATELY 2 ACRES.

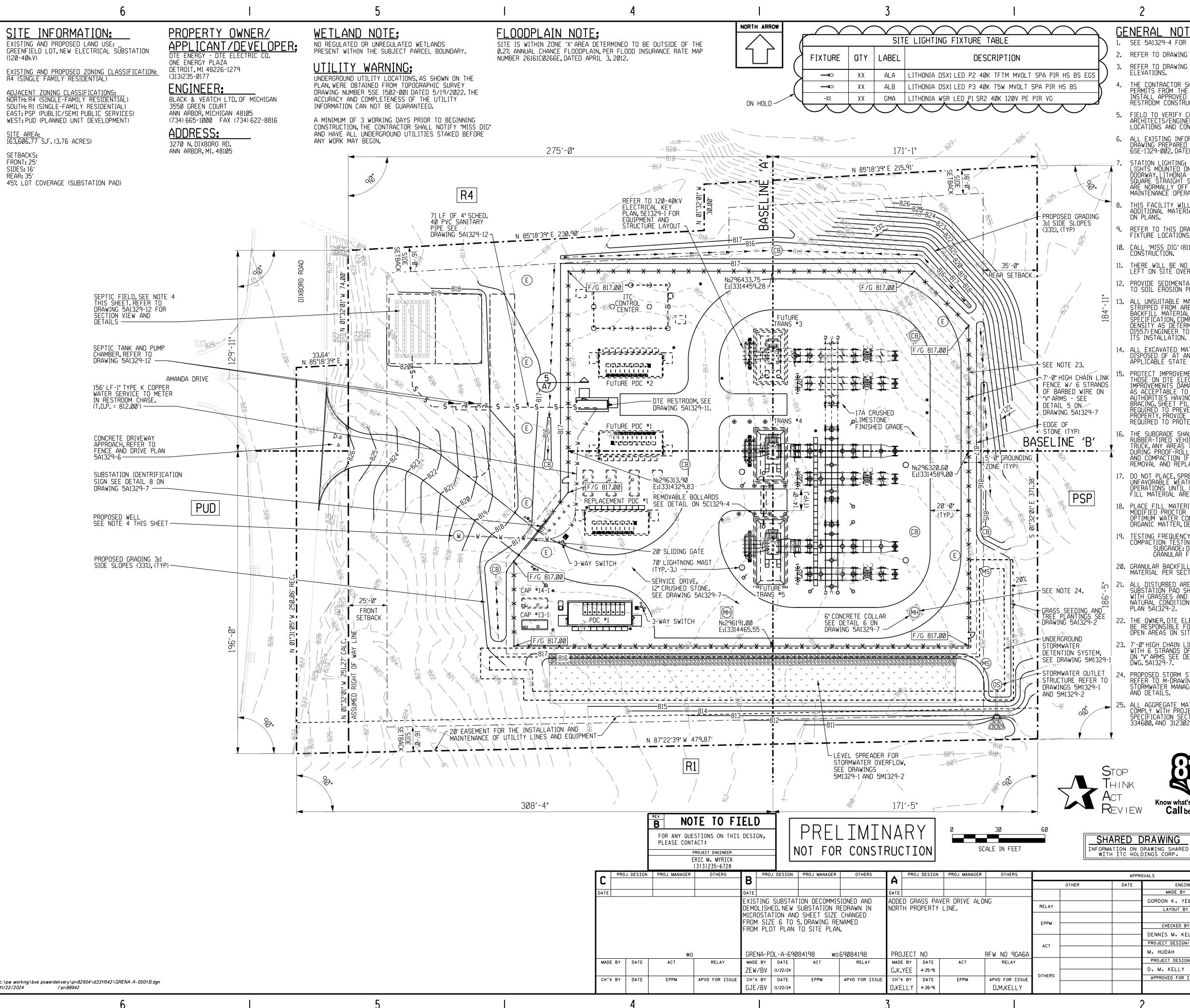
GRENADA SUBSTATION IS AN UN-OCCUPIED ELECTRIC SWITCHING/DISTRIBUTION SUBSTATION. AFTER CONSTRUCTION IS COMPLETE, AN OPERATOR WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH TO PERFORM ROUTINE MAINTENANCE AND DATA COLLECTION.

THERE WILL NOT BE CONNECTIONS TO PUBLIC SEWER AND WATER UTILITIES AT THIS SITE.

THIS FACILITY WILL GENERATE LESS THAT 100 PEAK HOUR DIRECTIONAL TRIPS. DURING UNDERGROUND UTILITY CONSTRUCTION, DIXBORO ROAD WILL REMAIN OPEN AND HAVE MINIMAL IMPACTS TO TRAFFIC.

SITE TRANSFORMER MAY EMIT LOW LEVEL NOISE. THIS NOISE WILL BE ATTENUATED BY HAVING TRANSFORMERS SETBACK 120 FT FROM THE ADJACENT PROPERTY LINES.

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SEE 5A1329-4 FOR PARCEL DESCRIPTION.

2. REFER TO DRAWING 5A1329-2 FOR LANDSCAPING AND RESTORATION. 3. REFER TO DRAWING 5A1329-11 FOR RESTROOM LAYOUT AND ELEVATIONS.

THE CONTRACTOR SHALL INCLUDE ALL WORK REQUIRED TO SECURE PERMITS FROM THE WASHTENAW COUNTY HEALTH DEPARTMENT TO INSTALL APPROVED SYSTEMS.REFER TO GRENADA SUBSTATION RESTROOM CONSTRUCTION PLANS FOR WELL AND SEPTIC DESIGN.

FIELD TO VERIFY CONDITIONS THAT AFFECT THE WORK.INFORM THE ARCHITECTS/ENGINEERS OF ANY DISCREPANCIES IN DIMENSIONS,SIZE, LOCATIONS AND CONDITIONS BEFORE PROCEEDING WITH THE WORK. ALL EXISTING INFORMATION SHOWN IS OBTAINED FROM THE SURVEY DRAWING PREPARED BY DTE ENERGY'S SURVEYING SERVICE.DWG. 6SE-1329-002,DATED:07-17-2023.

STATION LIGHTING: EXTERIOR LIGHTING CONSISTS OF LED WALLPACK LIGHTS MOUNTED ON THE PDC AND RESTROOM WALLS NEAR EACH DOORWAY, LITHONIA D-SERIES DSX1 LED LIGHT FIXTURES MOUNTED ON SQUARE STRAIGHT STEEL POLES FOR GENERAL SITE LIGHTING. LIGHTS ARE NORMALLY OFF EXCEPT DURING EMERGENCY SWITCHING OR MAINTENANCE OPERATIONS.

THIS FACILITY WILL NOT BE USED FOR OUTDOOR STORAGE OF ANY ADDITIONAL MATERIAL OTHER THAN PROPOSED ELECTRICAL EQUIPMENT ON PLANS.

9. REFER TO THIS DRAWING FOR LIGHTING FIXTURE TABLE AND FIXTURE LOCATIONS.

10. CALL 'MISS DIG' (811) 3 WORKING DAYS PRIOR TO START OF CONSTRUCTION.

11. THERE WILL BE NO TRASH RECEPTACLES ON SITE, NO TRASH WILL BE LEFT ON SITE OVERNIGHT.

12. PROVIDE SEDIMENTATION CONTROLS AS INDICATED ON PLANS. REFER TO SOIL EROSION PLAN 5A1329-8.

13. ALL UNSUITABLE MATERIAL (TOP SOIL, ORGANICS, ETC.) TO BE STRIPPED FROM AREA COMPRISING DTE STATION BOUNDARY, ANY BACKFILL MATERIAL NEEDED IS TO MEET MDOT CLASS II SPECIFICATION, COMPACT BACKFILL IN 8'LIFTS TO 95% MAX. DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST (ASTM D1557) ENGINEER TO APPROVE THIS FILL MATERIAL PRIOR TO ITS INSTALLATION.

14. ALL EXCAVATED MATERIALS THAT CANNOT BE RE-USED SHALL E DISPOSED OF AT AN APPROVED FACILITY IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

PROTECT IMPROVEMENTS ON ADJOINING PROPERTIES AS WELL AS THOSE ON DTE ELECTRIC COMPANY'S PROPERTY.RESTORE ANY IMPROVEMENTS DAMAGED BY THIS WORK TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO DTE ELECTRIC COMPANY OR OTHER PARTIES OR AUTHORITIES HAVING JURISDICTION.PROVIDE AND MAINTAIN SHORING, BRACING, SHEET PILING, UNDERPINNING OR OTHER TEMPORARY WORK AS REQUIRED TO PREVENT CAVE-INS AND TO PROTECT ADJACENT PROPERTY.PROVIDE SAFETY FENCING AROUND EXCAVATIONS AS REQUIRED TO PROTECT THE PUBLIC.

THE SUBGRADE SHALL BE THOROUGHLY PROOF-ROLLED WITH A HEAVY RUBBER-TIRED VEHICLE SUCH AS A LOADED SCRAPER OR LOADED DUMP TRUCK.ANY AREAS THAT EXHIBIT EXCESSIVE PUMPING AND YEILDING DURING PROOF-ROLLING SHALL BE STABILIZED BY AERATION, DRYING AND COMPACTION IF WEATHER CONDITIONS ARE FAVORABLE OR REMOVAL AND REPLACEMENT WITH ENGINEERED FILL.

17. DO NOT PLACE, SPREAD OR COMPACT ANY FILL MATERIAL DURING UNFAVORABLE WEATHER CONDITIONS AND DO NOT RESUME COMPACTION OPERATIONS UNTIL MOISTURE CONTENT AND DENSITY OF IN-PLACE FILL MATERIAL ARE WITHIN SPECIFIED LIMITS.

18. PLACE FILL MATERIAL IN 8 MAXIMUM LIFTS AND COMPACT TO 95% MODIFIED PROCTOR DRY DENSITY (ASTM D-1557) W/-3% TO +3% OPTIMUM WATER CONTENT.FILL MATERIAL SHALL BE FREE FROM ORGANIC MATTER, DEBRIS AND OTHER DELETERIOUS SUBSTANCES.

19. TESTING FREQUENCY COMPACTION TESTING

SUBGRADE: ONE TEST PER 2,500 SO.FT. GRANULAR FILL: ONE TEST PER 2,500 SO.FT.PER LIFT

20. GRANULAR BACKFILL MATERIAL SHALL BE CLASS II GRANULAR SAND MATERIAL PER SECTION 902 OF MICHIGAN DOT SPECIFICATIONS.

IBSTATION PAD SHALL BE RESTOR TH GRASSES AND NATIVE PLANTS CONDITIONS, REFER TO LANDSCAPE

THE OWNER,DTE ELECTRIC COMPANY,SHALL BE RESPONSIBLE FOR MAINTAINING ALL OPEN AREAS ON SITE.

23. 7'-0" HIGH CHAIN LINK FENCE WITH 6 STRANDS OF BARBED WIRE ON "V" ARMS SEE DETAIL 5 ON DWG.5A1329-7.

24. PROPOSED STORM STRUCTURE. REFER TO M-DRAWINGS FOR STORMWATER MANAGEMENT PLAN AND DETAILS.

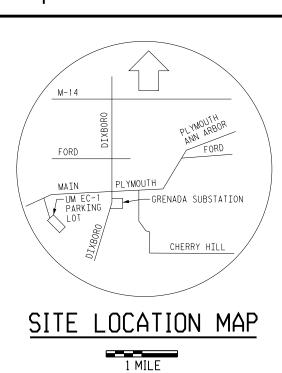
25. ALL AGGREGATE MATERIALS SHALL COMPLY WITH PROJECT CONSTRUCTION SPECIFICATION SECTION 312000, 334600, AND 312302.

Know what's **below**

Call before you dig

ON	SOIL EROSION AND SEDIMENT CONTROL PLAN	- — 5A1329-8 - — 5A1329-9 - — 5A1329-1 - — 5A1329-1 - — 5M1329-1 - — 5M1329-1 - — 5M1329-1 - — 5M1329-1 - — 5M1329-1
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	GORDON K. YEE	9/27/89										
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	DENNIS M. KELLY	9/27/89										
	PROJECT DESIGN/ELECT	DATE										
	M. HUDAH	9/27/89										
	PROJECT DESIGN/ACT	DATE	LOCATION NAME			SERVICE CENTER		SCALE				
	D. M. KELLY	9/27/89	GRENADA	SUBSTATION	I	ANN ARE	BOR	1″=30′-0″				
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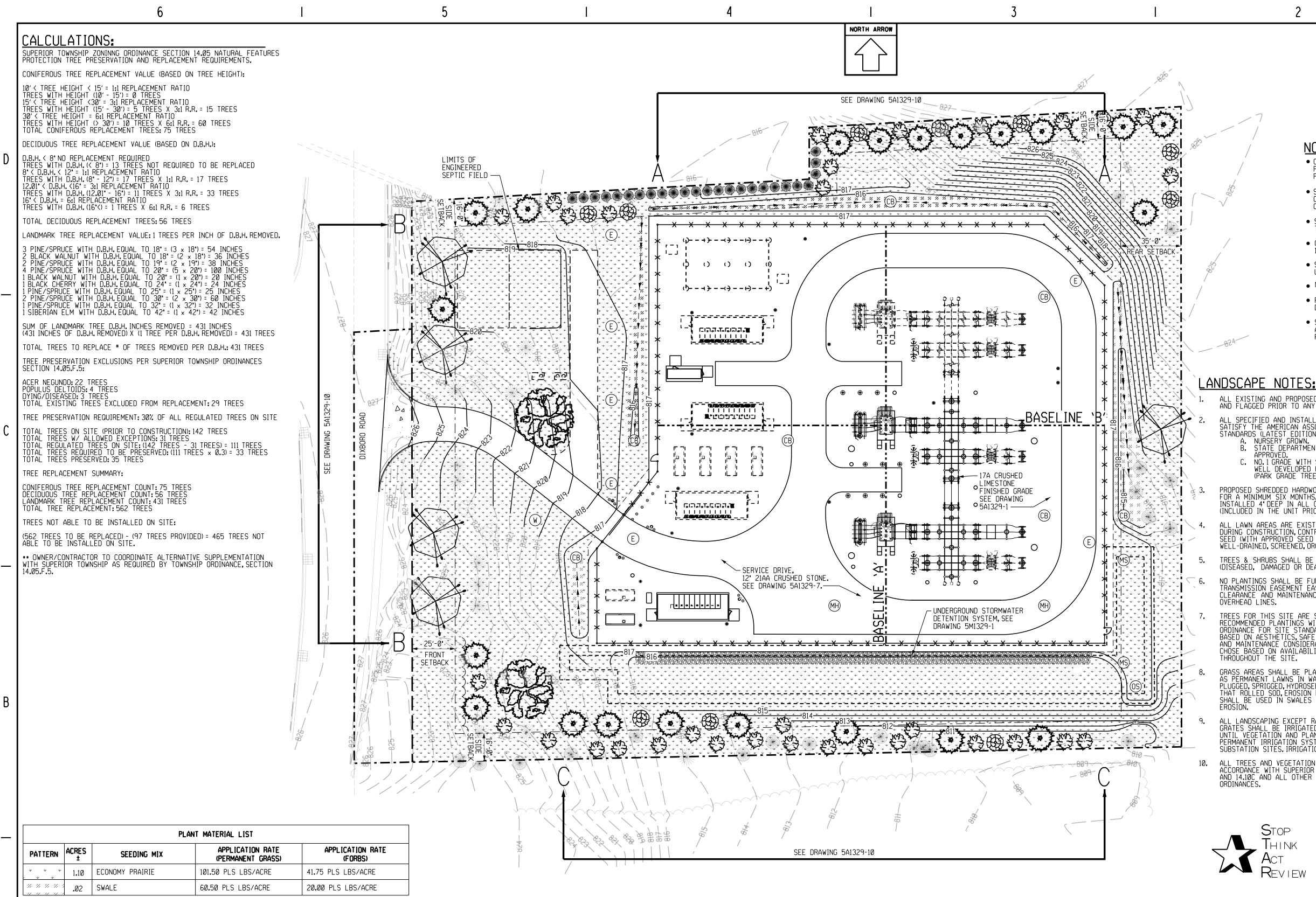
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REFERENCE DRAWINGS:

PREPARATION AND DEMOLI

PLAN-

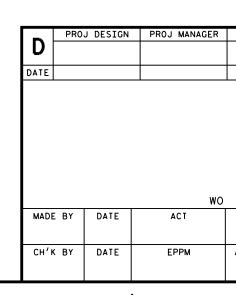
	PROPERTY LINE
<u> </u>	PROPOSED FENCE
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	RIGHT-OF-WAY
	SETBACKS
·	STORM/WATER UTILITY EASEMENT EDGE OF STONE
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c	SWALE CENTERLINE PROPOSED SANITARY SEWER
— — — -S· — — — — — ₩— —	PROPOSED WATER SERVICE
	CONCRETE PAVEMENT
LM	ZONING IDENTIFICATION



	PLANT MATERIAL LIST								
PATTERN	ACRES ±	SEEDING MIX	APPLICATION RATE (PERMANENT GRASS)	APPLICATION RATE (FORBS)					
+ + + + + +	1.10	ECONOMY PRAIRIE	101.50 PLS LBS/ACRE	41.75 PLS LBS/ACRE					
	.02	SWALE	60.50 PLS LBS/ACRE	20.00 PLS LBS/ACRE					

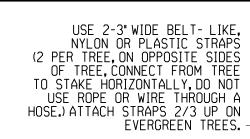
SEE SPECIFICATION 39 92 00 FOR SEED MIXTURE SPECIFICATIONS AND APPLICATION RATE.

TREE MATERIAL LIST								
KEY	OTY.	BOTANICAL NAME	COMMON NAME	CALIPER INCHES/HEIGHT AT PLANTING				
ERB	5	CERCIS CANADENSIS	EASTERN RED BUD (ERB)	2" OR 6' MIN.				
WWS	31	PICEA GLAUCA 'PENDULA'	WEEPING WHITE SPRUCE (WWS)	6' MIN. HGT.				
CWP	22	PINUS STROBUS 'FASTIGIATA'	COLUMNAR WHITE PINE (CWP)	6' MIN. HGT.				
DW	2	CORNUS FLORIDA	DOGWOOD (DW)	2" OR 6' MIN.				
ERA	25	HUJA OCCIDENTALIS 'SMARAGD'	EMERALD GREEN ARBORVITAE	6' MIN. HGT.				
GGT	11	THUJA STANDISHII X PLICATA	GIANT GREEN THUJA	6' MIN. HGT.				
c:\pw working\l 11/21/2024		ry\pri82904\d3311542\GRENA-A-0002.C.dgn i88942						



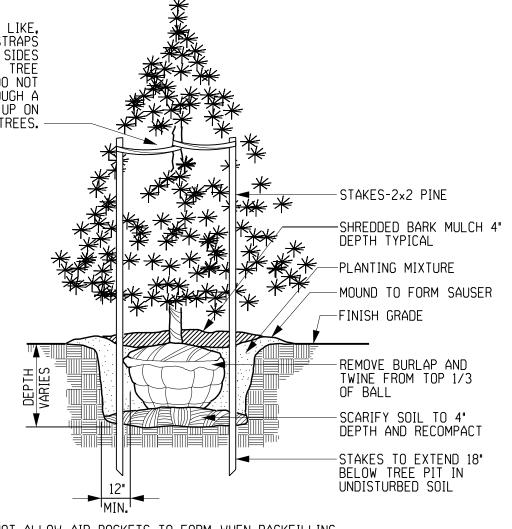
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NOTES:

- CONTRACTOR TO VERIFY PERCOLATION OF PLANTING PIT PRIOR TO INSTALLATION
- SET TOP OF BALL TO CORRESPOND WITH FINISH GRADE
- STAKE ALL EVERGREEN TREES 12' AND UNDER
- GUY ALL EVERGREEN TREES 12' AND OVER
- SET STAYS OR GUYS 2/3 UP TREE
- NEVER CUT CENTRAL LEADER
- PRUNE ONLY TO REMOVE DEAD OR BROKEN BRANCHES
- SPRAY EVERGREENS WITH ANTI-DESSICANT PRIOR TO FIRST WINTER



1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING. 2. DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE. 3. REMOVE TREE RINGS, TREE WRAP AND STAKES TWO YEARS AFTER INSTALLATION. 4. WATER TREE THOROUGHLY SUBSEQUENT TO INSTALLATION. <u> IREE PLANTING DETAIL</u>

A2 NOT TO SCALE

ALL EXISTING AND PROPOSED UTILITIES SHALL BE FIELD LOCATED AND FLAGGED PRIOR TO ANY LANDSCAPE CONSTRUCTION ON-SITE.

ALL SPECIFIED AND INSTALLED LANDSCAPE MATERIAL SHALL SATISFY THE AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS (LATEST EDITION) AND BE: NURSERY GROWN. STATE DEPARTMENT OF AGRICULTURE INSPECTED AND

APPROVED. C. NO.1 GRADE WITH STRAIGHT UNSCARED TRUNKS AND WELL DEVELOPED UNIFORM CROWNS ON ALL TREES (PARK GRADE TREES WILL NOT BE ACCEPTED).

PROPOSED SHREDDED HARDWOOD BARK MULCH SHALL BE SEASONED FOR A MINIMUM SIX MONTHS, DARK BROWN IN COLOR, AND INSTALLED 4" DEEP IN ALL CIRCLES AROUND EACH PROPOSED TREE (INCLUDED IN THE UNIT PRICE OF EACH TREE).

ALL LAWN AREAS ARE EXISTING. IF LAWN AREAS ARE DISTURBED DURING CONSTRUCTION, CONTRACTOR SHALL FINE GRADE, FERTILIZE, SEED (WITH APPROVED SEED MIX) AND MULCH ON A MINIMUM 4", WELL-DRAINED, SCREENED, ORGANIC TOPSOIL.

TREES & SHRUBS SHALL BE REPLACED IF UNACCEPTABLE (DISEASED, DAMAGED OR DEAD MATERIALS) WITHIN FIRST YEAR.

NO PLANTINGS SHALL BE FURNISHED WITHIN THE ITC 90'-0" WIDE TRANSMISSION EASEMENT EAST OF THE SUBSTATION DUE TO CLEARANCE AND MAINTENANCE REQUIREMENTS OF THE 120KV OVERHEAD LINES.

TREES FOR THIS SITE ARE SELECTED FROM THE LIST OF RECOMMENDED PLANTINGS WITHIN THE SUPERIOR TOWNSHIP ZONING ORDINANCE FOR SITE STANDARDS. TREES AND SHRUBS WERE CHOSE BASED ON AESTHETICS, SAFETY CONCERNS, HEIGHT AND SPREAD, AND MAINTENANCE CONSIDERATIONS OVER TIME.LOCATIONS WER CHOSE BASED ON AVAILABILITY ALONG THE RIGHT OF WAY AND THROUGHOUT THE SITE.

GRASS AREAS SHALL BE PLANTED IN SPECIES NORMALLY GROWN AS PERMANENT LAWNS IN WASHTENAW COUNTY.GRASS MAY BE PLUGGED, SPRIGGED, HYDROSEEDED, SEEDED, OR SODDED, EXCEPT THAT ROLLED SOD, EROSION REDUCING NET OR SUITABLE MULCH SHALL BE USED IN SWALES OR OTHER AREAS SUBJECT TO EROSION.

LANDSCAPING EXCEPT RAISED PLANTERS AND SIDEWALK TREE GRATES SHALL BE IRRIGATED. IRRIGATION SHALL BE PROVIDED UNTIL VEGETATION AND PLANTINGS ARE FULLY ESTABLISHED. PERMANENT IRRIGATION SYSTEMS ARE NOT FURNISHED FOR PROVIDED SUBSTATION SITES. IRRIGATION WILL BE PER OWNER.

ALL TREES AND VEGETATION SHOULD BE INSTALLED IN ACCORDANCE WITH SUPERIOR TOWNSHIP ORDINANCE SECTION 14.10B AND 14.10C AND ALL OTHER APPLICABLE STANDARDS AND



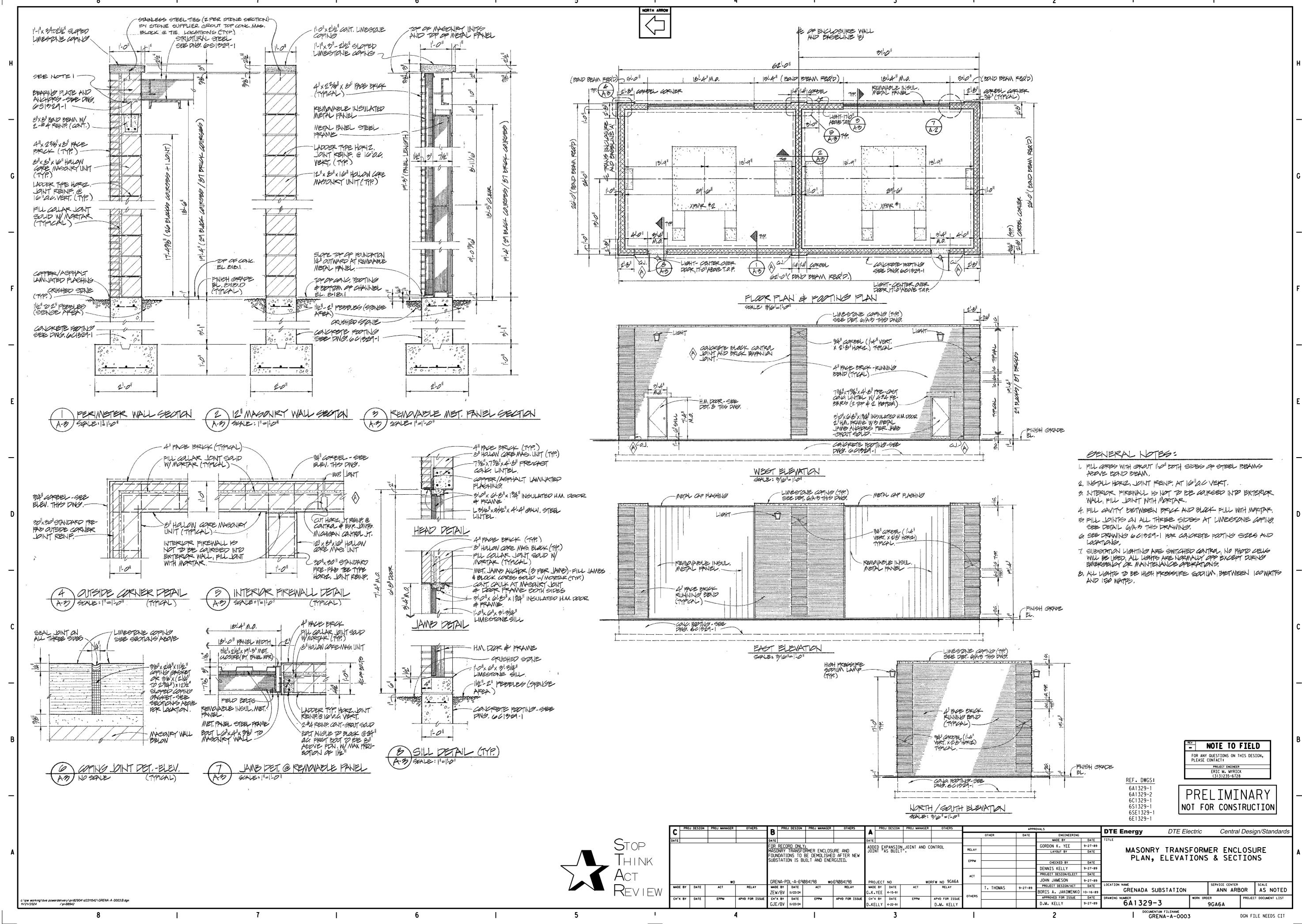


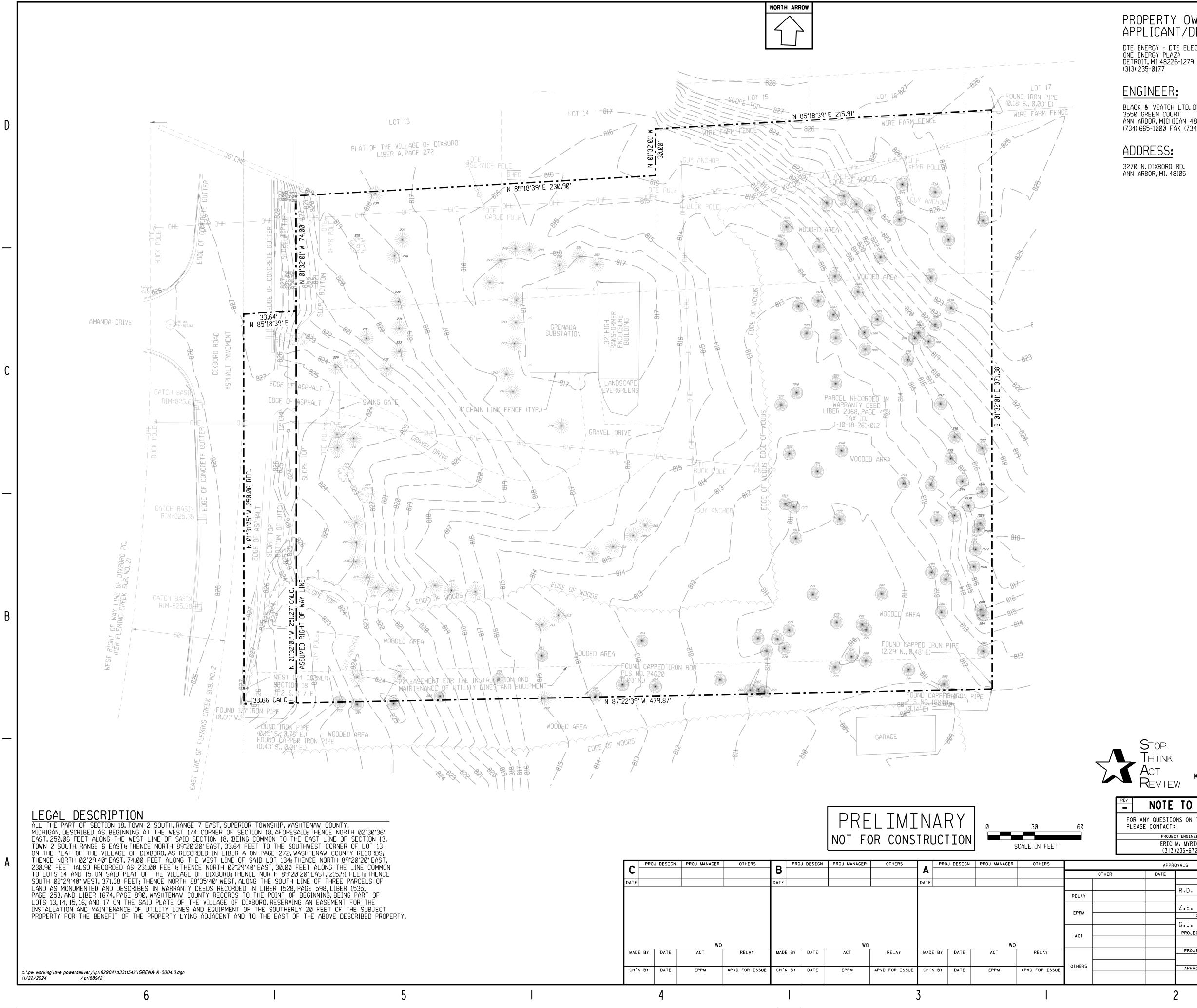
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LEGEND:	
	PROPERTY LINE
<u> </u>	PROPOSED FENCE
	SETBACK LINE
	RIGHT-OF-WAY
XXX	EXISTING CONTOURS
XX	ABANDONED CONTOURS
XXX	PROPOSED CONTOURS
	EDGE OF STONE
	CONCRETE PAVEMENT
XXX.XX	PROPOSED SPOT GRADE
	PROPOSED DRAINAGE SWALE CENTERLINE
	EXISTING CATCH BASIN
CB	PROPOSED CATCH BASIN
MH	PROPOSED STORM STRUCTURE
E	UNDERGROUND CONDUIT MANHOLE
OS	PROPOSED STORM OUTLET STRUCTURE
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EXISTING TREELINE

TREE LEGEND: EMERALD GREEN ARBORVITAE (ERA) EASTERN RED BUD (ERB) GIANT GREEN THUJA (GGT) WEEPING WHITE SPRUCE (WWS) OLUMNAR WHITE PINE (CWP DOGWOOD (DW) **REFERENCE DRAWINGS:** SITE PLAN — — — — — — — — — — — — — — — — — 5A1329-1





PROPERTY OWNER/ APPLICANT/DEVELOPER:

DTE ENERGY - DTE ELECTRICAL CO. ONE ENERGY PLAZA

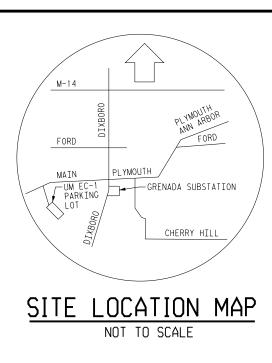
BLACK & VEATCH LTD. OF MICHIGAN ANN ARBOR, MICHIGAN 48105 (734) 665-1000 FAX (734) 622-8816

BENCHMARKS:

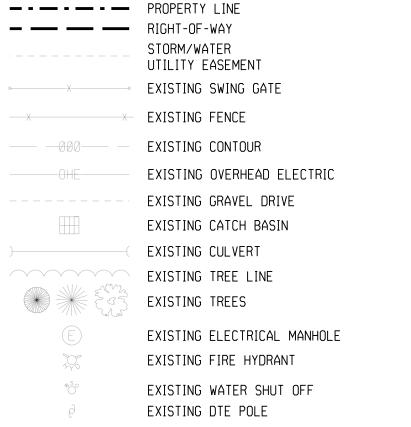
BM #1: ARROW ON HYDRANT NORTHING: 296276.69 EASTING 13314441.90 ELEV: 828.62'

BM#2: NAIL IN S. SIDE OF POLE NORTHING: 296444.93 EASTING 13314414.33 ELEV: 817.01'

BM#3: ARROW ON HYDRANT NORTHING: 296378.21 EASTING 13314088.67 ELEV: 828.62'







NOTES:

- 1. DRAWING IS SET UP IN THE MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT.
- 2. THE HORIZONTAL DATUM IS NAD 83 (2011).
- 3. THE ELEVATIONS ARE IN FEET AND DECIMALS THEREOF AND ARE REFERENCED TO THE NAVD 88 DATUM.
- 4. CONTOURS INDICATED ARE AT 1 FOOT INTERVALS.
- 5. BEARING STRUCTURE IS BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, INTERNATIONAL FOOT.
- 6. THE LOCATION OF UTILITIES AND IMPROVEMENTS INDICATED HEREON ARE APPROXIMATE ONLY AND WERE OBTAINED FROM SOURCES BELEIVED TO BE RELIABLE, BUT NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO LOCATION, TYPE OR COMPLETENESS OF UTILITIES OR IMPROVEMENTS.
- 7. SITE IS WITHIN ZONE 'X', AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FLOOD INSURANCE RATE MAP NUMBER 26161C0266E EFFECTIVE APRIL 3, 2012.
- 8. SEE DRAWING 5A1329-5 FOR TREE REMOVAL AND TREE PROTECTION REQUIREMENTS.
- 9. PROPERTY LINE INFORMATION, TOPOGRAPHY, UNDERGROUND UTILITIES, AND SITE FEATURES SHOWN ON THIS DRAWING WERE OBTAINED FROM DTE DRAWING 6SE 1329-002 TOPOGRAPHIC SURVEY.

REFERENCE DRAWINGS:

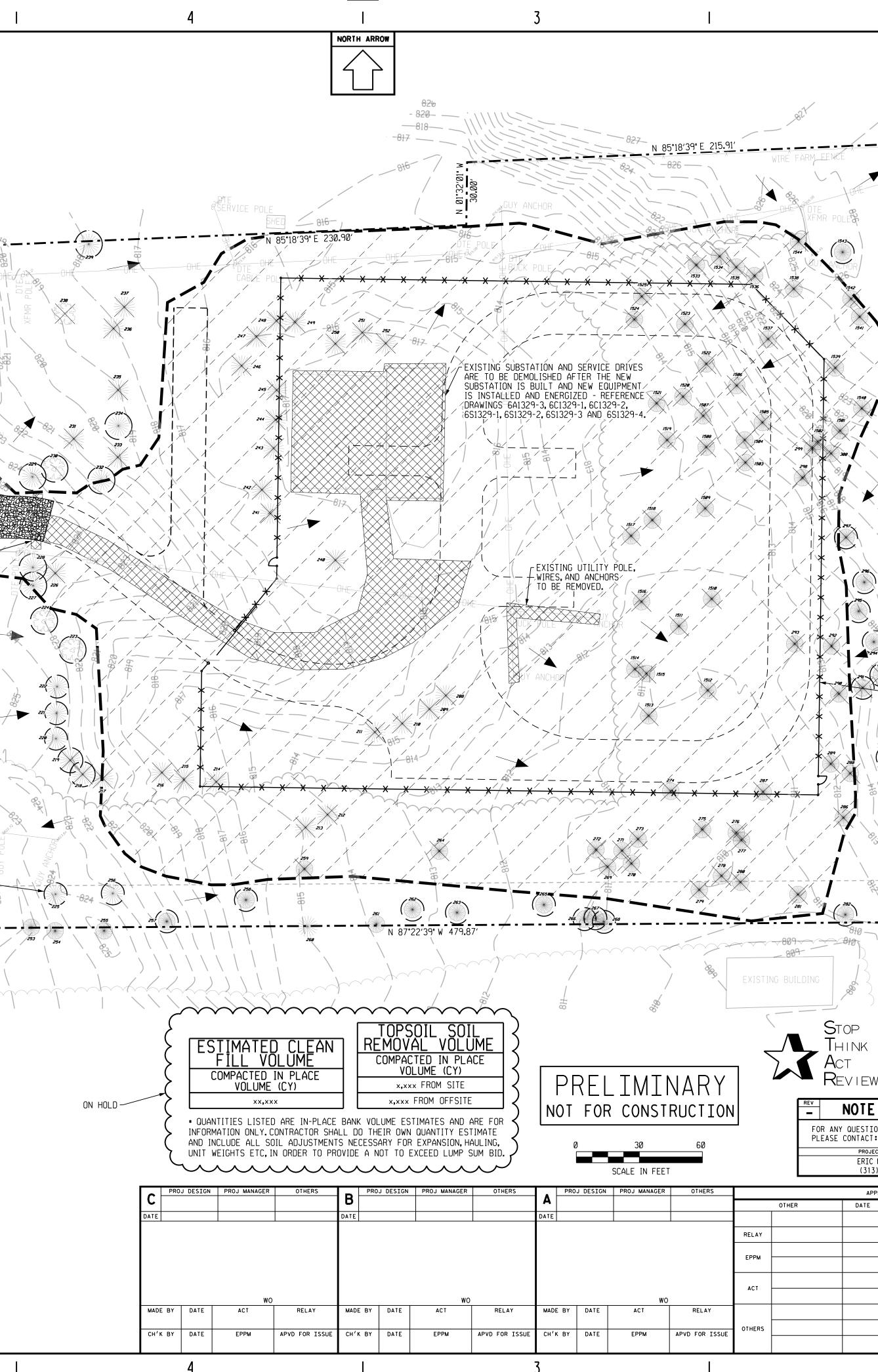
TOPOGRAPHIC SURVEY — — — — — — — — — — — 6SE 1329-002 e plan — — — — — — — — — — — -5A132° SITE PREPARATION AND DEMOLITION PLAN - - -5A1329-5

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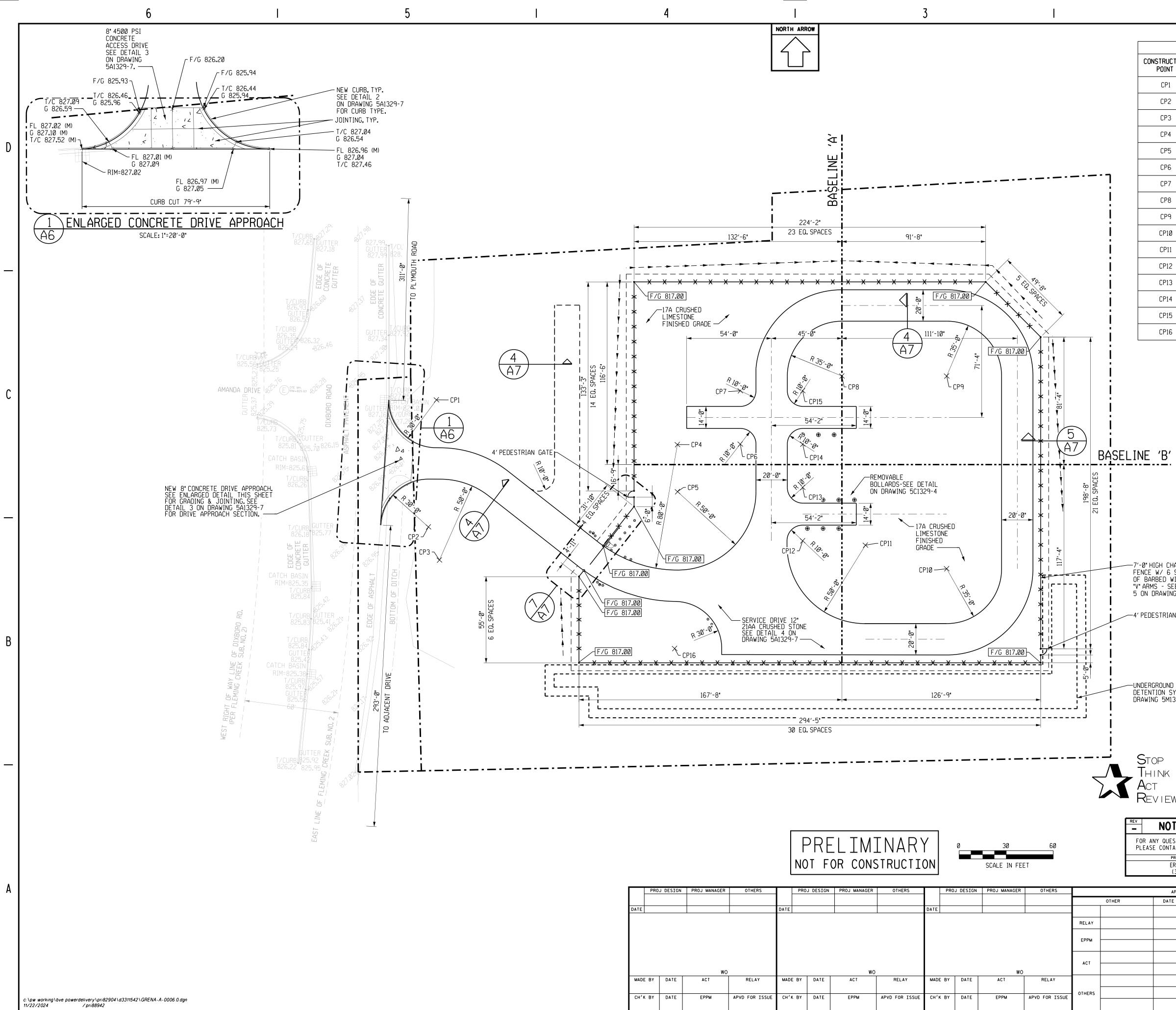
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	TAG #	REMARKS	DBH	CIES D	REMARKS	DBH	-	
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	-208 -209	NORWAY SPRUCE/PICEA ABIES	19 10	- 279 - - 280	AMERICAN ELM/ULMUS AMERICANA EASTERN COTTONWOOD/POPULUS DELTOIDES	9	-	
_	-210	NORWAY SPRUCE/PICEA ABIES	16	-280	BLACK CHERRY/PRUNUS SEROTINA	10	-	
		NORWAY SPRUCE/PICEA ABIES	19	-282	BOXELDER/ACER NEGUNDO	28		
	-212	WHITE PINE/PINUS STROBUS	18	-283	BLACK CHERRY/PRUNUS SEROTINA	16		
	-213	WHITE PINE/PINUS STROBUS	25	-284	BOXELDER/ACER NEGUNDO	12		
	-214	NORWAY SPRUCE/PICEA ABIES	30	- 285	BOXELDER/ACER NEGUNDO	14		
	-215	NORWAY SPRUCE/PICEA ABIES	32	-286	BLACK CHERRY/PRUNUS SEROTINA	24		MIN RIC
	-216	NORWAY SPRUCE/PICEA ABIES	30	-287	BLACK WALNUT/JUGLANS NIGRA	7	-	1212 1212 1212 1212 1212 1212 1212 121
	<u>217</u> <u>218</u>	WHITE PINE/PINUS STROBUS	22 13	- 288	HACKBERRY/CELTIS OCCIDENTALIS BLACK WALNUT/JUGLANS NIGRA	10 8		
_	-219	WHITE PINE/PINUS STROBUS	9,18	-290	HACKBERRY/CELTIS OCCIDENTALIS	14		74.00
	220	WHITE PINE/PINUS STROBUS	16	-291	BOXELDER/ACER NEGUNDO	10		
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	222	WHITE PINE/PINUS STROBUS	15	-293	BLACK WALNUT/JUGLANS NIGRA	14		SIREN OLI
	223	SUGAR MAPLE/ACER SACCHARUM	16	294	BLACK CHERRY/PRUNUS SEROTINA	12	\$\$ 6 26	
	224	SUGAR MAPLE/ACER SACCHARUM	15	295	BLACK WALNUT/JUGLANS NIGRA	12	158	
	225	WHITE PINE/PINUS STROBUS	17	296	BLACK WALNUT/JUGLANS NIGRA	14	J J	33.64′ 85°18′39" E
\mid	226 227	BLUE SPRUCE/PICEA PUNGENS	10	-297 - 298	BLACK CHERRY/PRUNUS SEROTINA BLACK WALNUT/JUGLANS NIGRA	12	EXISTING 12" CULVERT	EATCH BASSA
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╞	229	BLUE SPRUCE/PICEA PUNGENS	13	-300	HACKBERRY/CELTIS OCCIDENTALIS	13		
╞	230	SUGAR MAPLE/ACER SACCHARUM	20	-1501	BLACK WALNUT/JUGLANS NIGRA	11		827
	-231	BLUE SPRUCE/PICEA PUNGENS	13	1502	BOXELDER/ACER NEGUNDO	16	CATCHACCESS DRIVE	
	232	WHITE PINE/PINUS STROBUS	7,10	1503	BLACK WALNUT/JUGLANS NIGRA	20	0.1M-02.3.61	
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	-235 -236	WHITE PINE/PINUS STROBUS	20 25	-1506	BOXELDER/ACER NEGUNDO NORTHERN CATALPA/CATALPA SPECIOSA	7		
	-230	NORWAY SPRUCE/PICEA ABIES	25	1507	BLACK WALNUT/JUGLANS NIGRA	16		HSP ISE
	-238	SUGAR MAPLE/ACER SACCHARUM	14	1509	BLACK WALNUT/JUGLANS NIGRA	6	E REC	
	239	BLUE SPRUCE/PICEA PUNGENS	15	-1510	BLACK WALNUT/JUGLANS NIGRA	9	250.06	
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	-241	WHITE PINE/PINUS STROBUS	20	-1512	BLACK WALNUT/JUGLANS NIGRA	7	31,06	826
	-242	WHITE PINE/PINUS STROBUS	17	-1513	BOXELDER/ACER NEGUNDO	9		hite /
	-243	NORWAY SPRUCE/PICEA ABIES	14	-1514	BLACK WALNUT/JUGLANS NIGRA	6		
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	-247	WHITE PINE/PINUS STROBUS	18	-1518	BOXELDER/ACER NEGUNDO	11	CATCH BASIN RIM=825.38	CAL
	-248	WHITE PINE/PINUS STROBUS	16	-1519	BOXELDER/ACER NEGUNDO	6		51.27
	-249	WHITE PINE/PINUS STROBUS	17	1520	EASTERN COTTONWOOD/POPULUS DELTOIDES	12		
	-250	NORWAY SPRUCE/PICEA ABIES	20	-1521	EASTERN COTTONWOOD/POPULUS DELTOIDES-	16	TREE PROTECTION, TYP	Pol
	-251	NORWAY SPRUCE/PICEA ABIES	16	1522	BLACK WALNUT/JUGLANS NIGRA	16	SEE DETAIL 1 AND NOTES THIS SHEET.	
	-252	NORWAY SPRUCE/PICEA ABIES	20	1523	BLACK WALNUT/JUGLANS NIGRA	14		823
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╞	254 255	BLACK CHERRY/PRUNUS SERUTINA	28 17,24	1525	BLACK WALNUT/JUGLANS NIGKA BOXELDER/ACER NEGUNDO	14		• _ <u> </u> • _ <u> </u> • _ <u>'</u> _
	256	WHITE PINE/PINUS STROBUS	10	1527	BOXELDER/ACER NEGUNDO	8		
	257	BOXELDER/ACER NEGUNDO	13, 14	1528	BOXELDER/ACER NEGUNDO	9, 9		
	258	BLACK WALNUT/JUGLANS NIGRA	13	1529	BOXELDER/ACER NEGUNDO	10		
_	-259	BLACK WALNUT/JUGLANS NIGRA	8	1530	BOXELDER/ACER NEGUNDO	7		I
	260	WHITE PINE/PINUS STROBUS	21	1531	BLACK WALNUT/JUGLANS NIGRA	8		
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	263 	BLACK WALNUT/JUGLANS NIGRA	11, 14, 14 10	1534 1535	BLACK WALNUT/JUGLANS NIGRA	10	-	
	265	NORWAY MAPLE/ACER PLATANOIDES	18	1536	BLACK WALNUT/JUGLANS NIGRA	7	-	
	266	BLACK CHERRY/PRUNUS SEROTINA	10, 12	-1537	BLACK WALNUT/JUGLANS NIGRA	9	-	
	267	BLACK CHERRY/PRUNUS SEROTINA	7,10	-1538	ULMUS PUMILA/SIBERIAN ELM	18]	
	268	BLACK CHERRY/PRUNUS SEROTINA	15	-1539	ULMUS PUMILA/SIBERIAN ELM	42		
	-269	BOXELDER/ACER NEGUNDO	10	1540	BLACK WALNUT/JUCLANS NIGRA	14		
	-270	BOXELDER/ACER NEGUNDO	11	-1541	COMMON BUCKHORN	6		
	- 271		9	1542		8		
	-272 -273	BOXELDER/ACER NEGUNDO BOXELDER/ACER NEGUNDO	8 13	1543 1544	BLACK WALNUT/JUGLANS NIGRA	12 11		
	-274	BOXELDER/ACER NEGUNDO	16 7	1545	ULMUS PUMILA/SIBERIAN ELM	11		
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			ECTION NOTES:	
	PROPOSED SUBSTATION LIMIT	2. TREES NOT IND BE FENCED OFF	BE REMOVED WILL BE IDENTIFIED BY RED FLAGGING. ICATED TO BE REMOVED OR TRANSPLANTED SHALL WITH 4'HIGH ORANGE CONSTRUCTION FENCE AT A THE TREE OF THE TRUNK DIAMTER IN INCHES BREAST HEIGHT.	
		3. TREE PROTECTI OR CONSTRUCTI GRADING IS COM	ON FENCING IS TO BE ERECTED PRIOR TO ANY EARTHWORK ON AND IS TO REMAIN IN PLACE UNTIL CONSTRUCTION MPLETE.	
X	-823	ZONE (CRZ). THE	PROTECTION FENCING SURROUNDING THE CRITICAL ROOT E CRZ IS THE RADIAL DISTANCE FROM THE TRUNK IN FEET DIAMETER IN INCHES MEASURED AT BREAST HEIGHT (dbh).	
	32'01' E 371.38'	5. ALL DEBRIS, FIL AREA WITHIN PI STORAGE OR ST	LL,EQUIPMENT OR MATERIAL IS TO BE KEPT CLEAR OF ROTECTIVE FENCE.NO CLEANING OF EQUIPMENT OR MATERIA FORAGE OR DISPOSAL OF ANY MATERIAL WITHIN THE DRIP REES TO BE SAVED.	^{,L} C
		DEMOLITION OR	L EROSION PLAN DRAWING 5A1329-8 PRIOR TO ANY TREE REMOVAL.	
	PROPOSED FENCEL	LEGEND: 	PROPERTY LINE RIGHT-OF-WAY PROPOSED GRADING LIMITS EDGE OF PROPOSED DRIVE PROPOSED FENCE EXISTING FENCE STORM/WATER UTILITY EASEMENT EXISTING CONTOUR EXISTING DRAINAGE FLOW DIRECTION EXISTING DTE POLE EXISTING OVERHEAD ELECTRICAL LINE	_
	811 -815 -815 -814 -814 -813		EXISTING TREE LINE EXISTING WATER SHUT OFF EXISTING FIRE HYDRANT EXISTING CATCH BASIN LIMITS OF TREE REMOVAL EXISTING TREES TREE REMOVAL TREE PROTECTION BARRIER	В
)			TEMPORARY STONE ACCESS DRIVE	
5	\mathbf{m}		LIMITS OF DISTURBANCE	
		DEMOLITION	NOTES:	
W	Know what's below. Call before you dig.	APPROVED FACILI FEDERAL REGULA STOCK PILED ON	MATERIALS SHALL BE DISPOSED OF AT AN OWNER ITY IN ACCORDANCE WITH APPLICABLE STATE AND ITIONS.SITE SOILS SHALL NOT BE RELOCATED OR SITE UNLESS NOTED ON PLANS BY THE ENGINEER. RAWINGS:	
L ION I:	TO FIELD s on this design,	TOPOGRAPHIC SURVEY — - SITE PLAN — — — — — EXISTING CONDITIONS PLA		-
СM	engineer MYRICK 35-6728	SOIL EROSION AND SEDIM SOIL EROSION AND SEDIM DATE SUBMITTED FOR	ÊNT CONTROL PLAN — — — — — — — — 541329-8 ENT CONTROL NOTES AND DETAILS — — · 541329-9	
	VALS	DTE Energy	DTE Electric Central Design/Standa	ards A
	ENGINEERING MADE BY DATE R.D. BREWER/BV 11/22/24 LAYOUT BY DATE Z.E. WIACEK/BV 11/22/24 CHECKED BY DATE G.J. ESKOLA/BV 11/22/24 PROJECT DESIGN/ELECT DATE	TITLE	RATION AND DEMOLITION PLA	
	PROJECT DESIGN/ACT DATE APPROVED FOR ISSUE DATE	DRAWING NUMBER		
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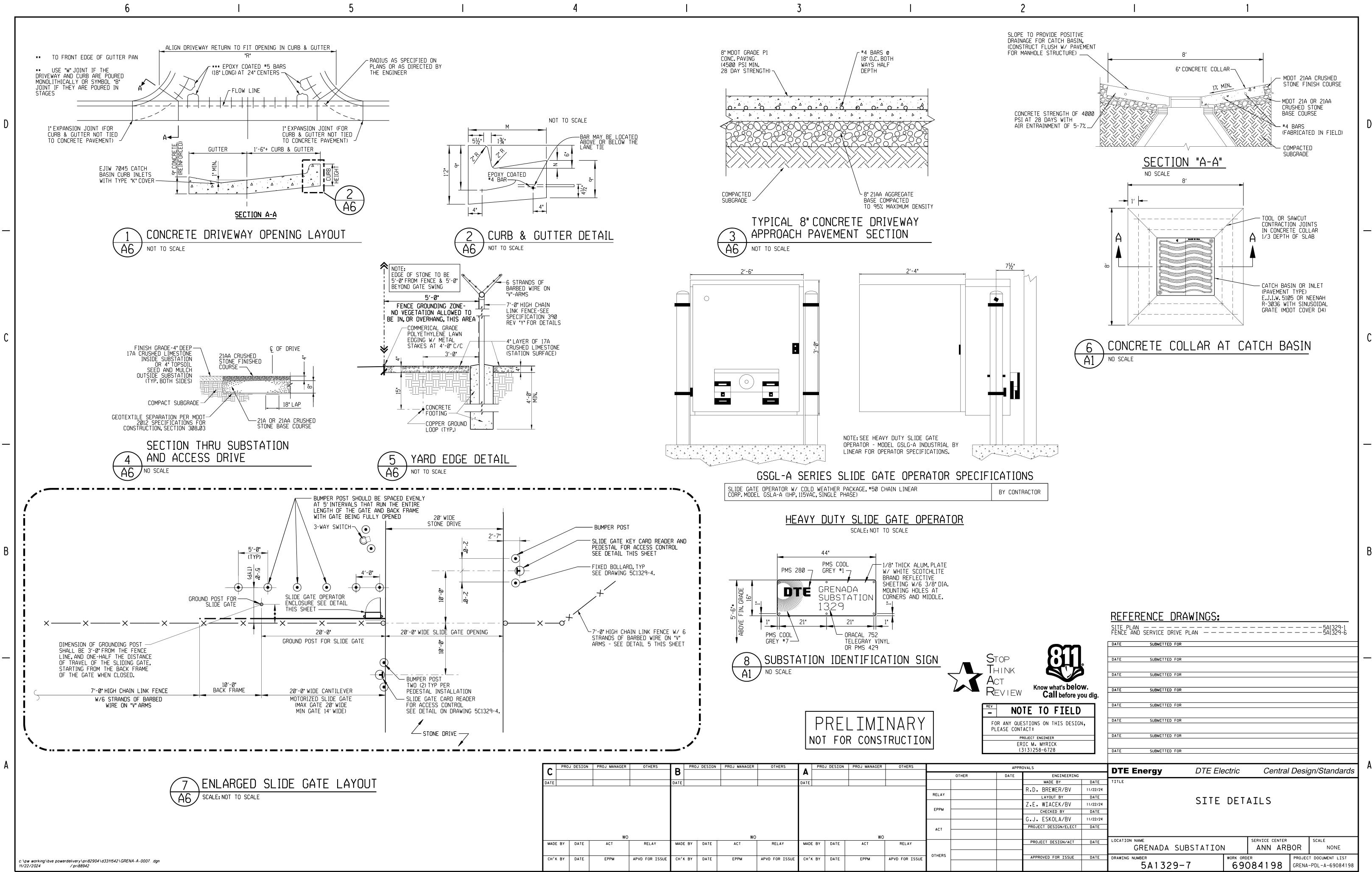


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CTION T	POINT DESCRIPTION	COORDINATE
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	30' RADIUS	E:13314192.69
	CENTER OF	N:296281.94
	30' RADIUS	E:13314188.75
	CENTER OF	N:296249.88
	50' RADIUS	E:13314207.32
	CENTER OF	N:296327.39
	80' RADIUS	E:13314357.09
	CENTER OF	N:296297.40
	50' RADIUS	E:13314357.98
	CENTER OF	N:296328.73
	10' RADIUS	E:13314397.18
	CENTER OF	N:296362.72
	10' RADIUS	E:13314396.30
	CENTER OF	N:296373.77
	35' RADIUS	E:13314460.83
	CENTER OF	N:296375.49
	35' RADIUS	E:13314527.63
j	CENTER OF	N:296252.72
	35' RADIUS	E:13314530.80
	CENTER OF	N:296266.37
	50' RADIUS	E:13314478.61
	CENTER OF	N:296268.13
	10' RADIUS	E:13314438.55
}	CENTER OF	N:296302.11
	10' RADIUS	E:13314437.67
ļ	CENTER OF	N:296329.76
	10' RADIUS	E:13314436.96
5	CENTER OF	N:296363.75
	10' RADIUS	E:13314436.08
5		N:296197.40
	30' RADIUS	E:13314358.72

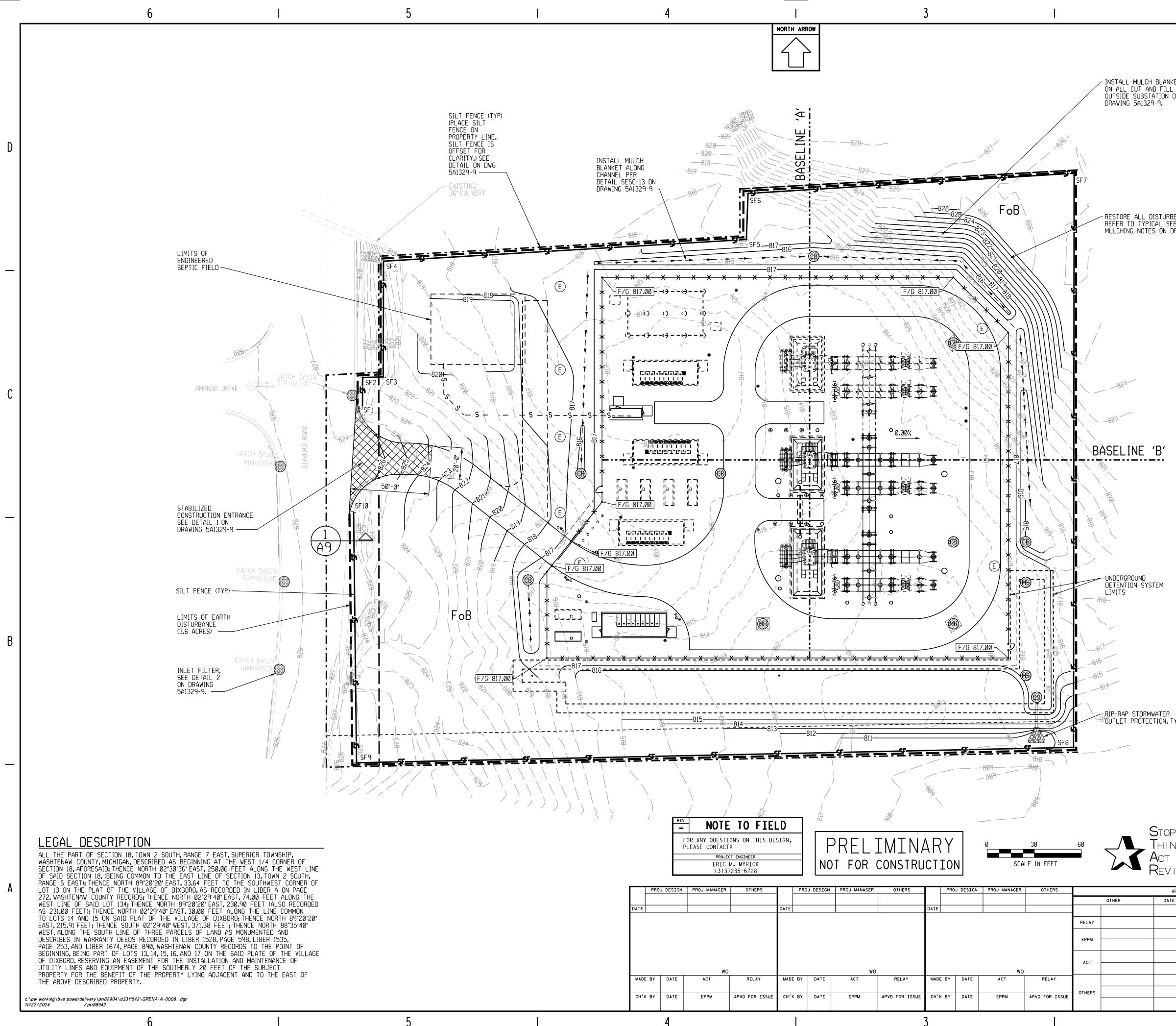
GENERAL NOTES:

- 1. REFER TO SITE PLAN DRAWING 5A1329-1 FOR SITE GRADING CONTOURS.
- 2. ALL RADII FOR PROPOSED DRIVES AND APPROACHES ARE DIMENSIONED TO BACK OF CURB.
- 3. ALL AGGREGATE MATERIALS SHALL COMPLY WITH PROJECT CONSTRUCTION SPECIFICATION SECTION 312000 EARTH MOVING.
- 4. JOINTING SHALL CONFORM TO THE LATEST EDITION OF ACI 330 GUIDE FOR DESIGN & CONSTRUCTION OF CONCRETE PARKING LOTS AS WELL AS OTHER APPLICABLE GOVERNING STANDARDS.
- 5. INSTALL MDOT 21AA UNDER NEW CURB TO MATCH NEW PAVEMENT SECTION AGGREGATE BASE THICKNESS. EXTEND MDOT 21AA 12" BEYOND BACK OF CURB.
- 6. ADJUST TO GUTTER PAN SPILL OUT AT 1" PER FOOT AS REQUIRED TO PROVIDE POSITIVE DRAINAGE OR NOTED ON PLAN.
- 7. BACKFILL BEHIND BACK OF CURB TO MATCH EXISTING AND PROVIDE POSITIVE DRAINAGE UNLESS OTHERWISE NOTED.
- 8. JOINTS SHALL BE PLACED AT RIGHT ANGLES TO THE EDGE OF CONCRETE CURB AND GUTTER.
- 9. BOTTOM SLOPE OF CURB AND GUTTER STRUCTURE MAY BE THE SAME SLOPE AS TOP OF PAVEMENT. BACK OF CURB AND VERTICAL EDGE OF GUTTER PAN MAY HAVE A MAXIMUM 1/2" BATTER TO FACILITATE FORMING.
- 10. TAPER CURB TO ZERO AT FREE ENDS.
- 11. ALL FENCE MATERIALS SHALL COMPLY WITH PROJECT CONSTRUCTION SPECIFICATION SECTION 323100 CHAINLINK FENCE AND GATES.

PROJECT DESIGN/ACT DATE	LOCATION NAME	DA SUBSTATION	SERVICE CENTER SCALE ANN ARBOR 1"=30'-0"	
MADE BY DATE R.D. BREWER/BV 11/22/2 LAYOUT BY DATE Z.E. WIACEK/BV 11/22/2 CHECKED BY DATE G.J. ESKOLA/BV 11/22/2 PROJECT DESIGN/ELECT DATE	FEN	ICE AND SERVICE	E DRIVE PLAN	
APPROVALS TE ENGINEERING	DTE Energy	DTE Electric	Central Design/Standards	
(313)235-6728	DATE SUBMI	ITTED FOR		
PROJECT ENGINEER ERIC M. MYRICK	DATE SUBMI	ITTED FOR		7
ESTIONS ON THIS DESIGN, TACT:	DATE SUBMI	ITTED FOR		7
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11329-1	REFERENCE	DRAWINGS:		
ND STORMWATER SYSTEM, SEE	(M)	MATCH GRADE ELEVATION		
	G FL	GUTTER ELEVATION FLOWLINE ELEVATION		
	T/C	TOP OF CURB ELEVATION		
	F/G	FINISH GRADE ELEVATION		B
AN GATE	୦ ତ କି ତ	FIXED BOLLARD CARD READER		
NG 5A1329-7	•	REMOVABLE BOLLARD		
S STRANDS WIRE ON GEE DETAIL		CONCRETE PAVEMENT		
CHAIN LINK		PROPOSED DRAINAGE SWALE		
	XXX.XX	EXISTING SPOT GRADE PROPOSED SPOT GRADE		
	© ===== 827.92	EXISTING ELECTRICAL MANHOLE EXISTING CATCH BASIN		-
	*Se	EXISTING WATER SHUT OFF		
	~~~~~	EDGE OF STONE EXISTING FIRE HYDRANT		
	<del></del>	PROPOSED FENCE		
1		PROPERTY LINE		



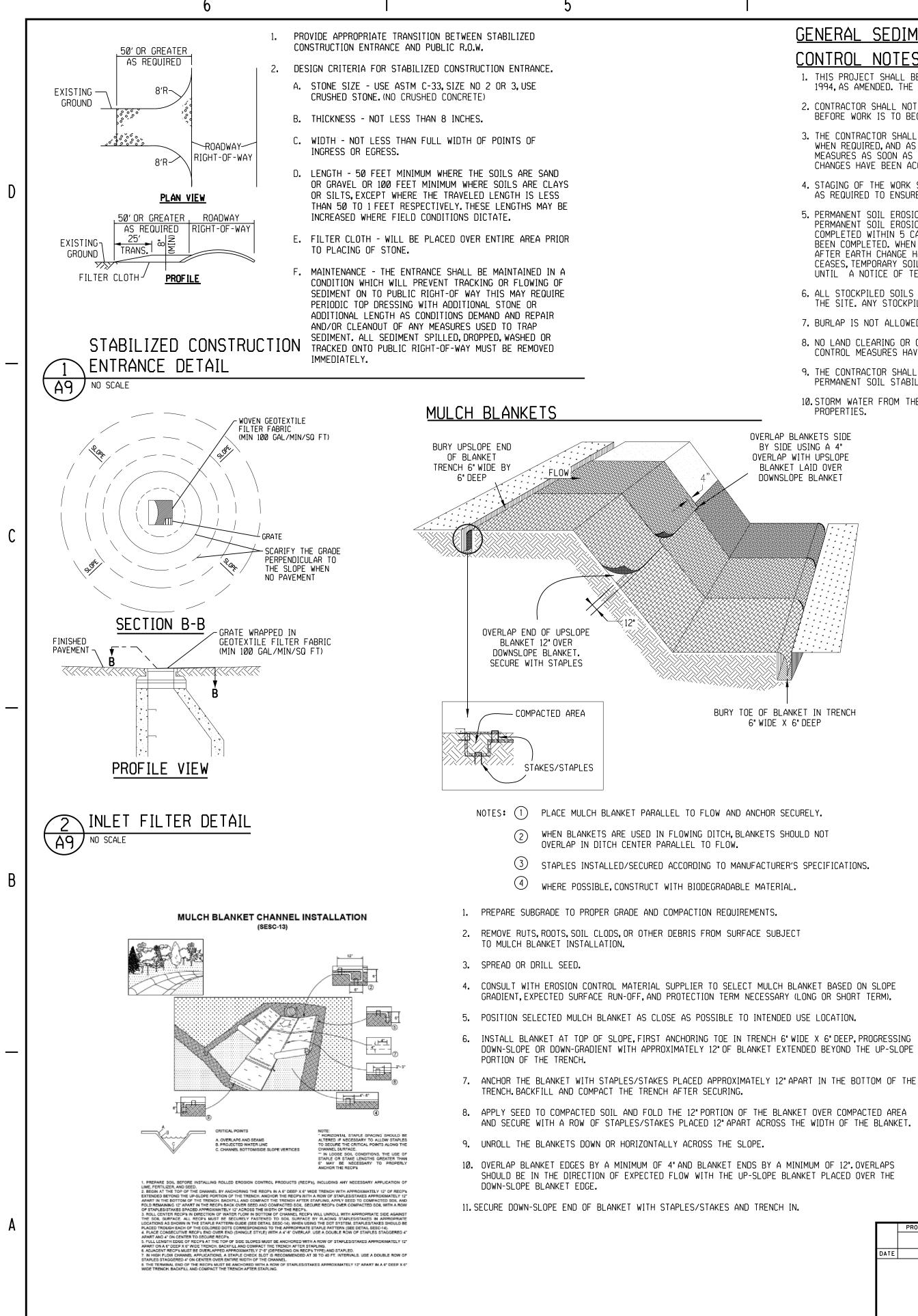
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NKETS L SLO I ON	DPES	APPLIC DTE ENERGY ONE ENERGY DETROIT, MI (313)235-017 ENGINE BLACK & VE 3550 GREEN ANN ARBOR,	48226-1279 7 ATCH LTD.OF MICHIGAN COURT MICHIGAN 48105 00 FAX (734) 622-8816 SORO RD.	<u>PER:</u>	S	M-14 FORD MAIN PLYMOUTH PARKING LOT OT COM MAIN PLYMOUTH GRI GRI COM COM COM COM COM COM COM COM	PLYMOUTH PLYMOUTH PLYMOUTH PLYMOUTH FORD ENADA SUBSTATION CHERRY HILL CHERRY HILL
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		SF1	N:296342.71 E:13314174.12		-	OPOSED DRAINAGE S	
		SF2	N:296364.13 E:13314173.58		EXI	STING CATCH BASIN	
		SF3	N:296365.25 E:13314187.95			STING ELECTRICAL	
		SF4	N:296438.42 E:13314186.06	(CB)		DPOSED CATCH BASI DPOSED MANHOLE	Ν
		SF5	N:296458.43 E:13314417.31	(MH) (E)		DERGROUND CONDUIT	MANHOLE
		SF6	N:296487.57 E:13314417.11		PR	OPOSED STORM OUTL	ET STRUCTURE
		SF 7	N:296505.39 E:13314627.00	<b>⊕</b> ⊙		MOVABLE BOLLARD (ED BOLLARD	
		SF8	N:296136.38 E:13314636.61	ୖଡ଼ଡ଼୕ଡ଼		RD READER	
		SF 9	N:296116.36 E:13314177.02			MPORARY STONE CESS DRIVE	
		SF1Ø	N:296277.05 E:13314170.59		INL	ET FILTER	
				≁ SF		T FENCE LOCATION	
			REFERENCE	DRAWIN			
? TYP.		DA	SITE PLAN — — — LANDSCAPE PLAN — EXISTING CONDITIO FENCE AND SERVIC SOIL EROSION AND STORMWATER MANAG	NS PLAN — — – E DRIVE PLAN – SEDIMENT CONT GEMENT PLAN –			— — — — 5A1329-2 — — — — 5A1329-4 — — — — 5A1329-6 — — — — 5A1329-9
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	CHECKED BY G.J. ESKOLA/BV	DATE 11/22/24	SE			ROL PLAN	J
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	APPROVED FOR ISSUE	DATE DR.	AWING NUMBER 5A1329-		WORK OR	DER PR	ROJECT DOCUMENT LIST RENA-PDL-69084198

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11/21/2024

# GENERAL SEDIMENTATION AND EROSION

# CONTROL NOTES:

1. THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF MICHIGAN ACT 451 OF 1994, AS AMENDED. THE SOIL EROSION AND SEDIMENT CONTROL ACT.

2. CONTRACTOR SHALL NOTIFY WASHTENAW COUNTY SOIL EROSION INSPECTORS OFFICE 48 HOURS BEFORE WORK IS TO BEGIN (734) 222-6860.

3. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WHEN REQUIRED, AND AS DIRECTED ON THESE PLANS. THE CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED.

4. STAGING OF THE WORK SHALL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS. AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH.

5. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY PERMANENT SOIL EROSION CONTROL MEASURES FOR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING, OR THE FINAL EARTH CHANGE, HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISRUPTED AREA AFTER EARTH CHANGE HAS BEEN COMPLETED, OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY UNTIL A NOTICE OF TERMINATION IS OBTAINED FORM THE EGLE

6. ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM THE SITE. ANY STOCKPILE THAT REMAINS LONGER THAN 15 DAYS SHALL BE GRASS SEEDED.

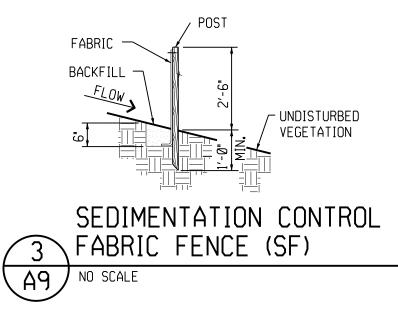
7. BURLAP IS NOT ALLOWED. AND STRAW BALES CAN ONLY BE USED TO BACKUP SILT FENCES.

8. NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL NECESSARY EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AS IDENTIFIED BY THE OWNER.

9. THE CONTRACTOR SHALL BE RESPONSIBLE TO IMPLEMENT THE ACTIONS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.

10.STORM WATER FROM THE SITE SHALL NOT BE PERMITTED TO ADVERSELY IMPACT TO ADJACENT PROPERTIES.





# SEQUENCE OF CONSTRUCTION AND S EROSION AND SEDIMENTATION CONT

SUBSTATION CONSTRUCTION (DATE TBD)

1. INSTALL FILTERS WITHIN DIXBORO ROAD FOR SEWER INLET INDICATED ON DRAWING 5A1329-9. (DAY 1)

2

- 2. INSTALL TEMPORARY STABILIZED CONSTRUCTION ACCESS EN 5A1329-9.(DAY 1)
- 3. INSTALL SILT FENCE ALONG PROPERTY LINE OR AT LIMITS
- DRAWING 5A1329-9. (DAY 1) 4. SITE WORK. (DAY 2 - DATE TBD)
- A. TOTAL AREA OF DISTURBANCE 3.6 ACRES.
- B. DURING DRY PERIODS ALL AREAS SHALL BE WATER FOR
- C. ALL DIRT AND MUD TRACKED ONTO ROADWAY SHALL BE R
- D. EXCAVATE AND DISPOSE OF SOIL AS INDICATED ON DRAW
- E. MASS GRADE SITE TO ROUGH GRADE.
- F. MAINTAIN ALL TEMPORARY SOIL EROSION MEASURES DURI SITE. INSPECT AND REPAIR ANY TEMPORARY SOIL EROSION MEASURES ON A WEEKLY BASIS AND WITHIN 24 HOURS OF
- G. INSTALL ALL STORM SEWER STRUCTURES, SOLID STORM P NEW STORM SEWER CAP AND PROTECT UNDERDRAIN CONNE UNDERDRAINS ARE INSTALLED INSTALL PERFORATED UNDER STORM STRUCTURES PER DRAWING 5M1329-1.
- H. INSTALL UNDERGROUND DETENTION SYSTEM AND TREATME SPECIFICATIONS. PROTECT INSPECTION PORTS. ACCESS RIS CONNECTIONS UNTIL DETENTION SYSTEM OUTLET IS INST
- I. INSTALL OUTLET CONTROL STRUCTURE AND DISCHARGE P MANAGEMENT PLANS.
- J. ROUTE ALL SURFACE WATER TO NEW STORM OUTLET.CON MANAGE SURFACE WATER DURING CONSTRUCTION AND PRO FILTRATION TO ENSURE THAT NO SEDIMENT ENTERS DETI
- K. INSTALL ALL UNDERGROUND ELECTRIC MANHOLES AND CON
- L. INSTALL REMAINING UNDERGROUND UTILITIES AND FOUNDA
- M. CONSTRUCT 12-INCH THICK GRAVEL DRIVES AS INDICATED N. INSTALL 4-INCH THICK SURFACING STONE OVER REMAIND STABILIZE SURFACE.
- O. INSTALL PROPOSED LANDSCAPING AND SCREENING PER DF
- P. RESTORE GREENBELT AREA BETWEEN SUBSTATION AND PR MULCH PER PLANS.
- Q. INSTALL ABOVE GRADE STRUCTURES AND EQUIPMENT.
- R. REMOVE TEMPORARY STABILIZED CONSTRUCTION ENTRANCI COMPLETE AND INSTALL NEW CONCRETE CURBS AND DRIVE
- 5. REMOVE REMAINING TEMPORARY SOIL EROSION MEASURES AF COMPLETE AND STABILIZED AFTER ACCEPTANCE BY WASHTEN



REV	NOTE TO FIELD
	PR ANY QUESTIONS ON THIS DESIGN, EASE CONTACT:
	PROJECT ENGINEER
	ERIC M. MYRICK (313)235-6728

# NOTES:

- 1. DATES, IF PROVIDED ARE ESTIMATES ONLY, AND MAY VARY DELAYS. REFER TO SOIL EROSION CONTROL SEQUENCE OF CO
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION EROSION AND SEDIMENTATION CONTROL DEVICES AND SHALL COUNTY PERMIT PROCEDURES FOR SOIL FROSION AND SEDIM COUNTY DEPARTMENT OF PUBLIC SERVICES AND LAND RESOL DIVISION.

# **DEWATERING**

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROPRIATE AUTHORITIES FOR DISCHARGE INTO RECEIVING WATERS WHE
- 2. IF REQUIRED, DEWATERING MUST BE CONDUCTED SO THAT D DOESN'T CAUSE SCOURING OF RECEIVING AREA.
- 3. IF SEDIMENT IS PRESENT IT SHALL BE REMOVED PRIOR TO MAINTAINED A MINIMUM OF 100'-0" AWAY FROM ANY WETLAM
- 4. SURFACE WATER THAT CONTACTS CONTAMINATED SOILS, AND IS GENERATED WHILE CLEANING EQUIPMENT WILL BE CONSI WATER SHALL BE COLLECTED AND STORED AND PROPERLY APPROVED FACILITY BY THE CONTRACTOR.
- 5. DEWATERING SHALL BE CONDUCTED IN ACCORDANCE TO DEW CONTRACTOR AND APPROVED BY DTE.SEE SPECIFICATIONS

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SOIL			<u>EDING AND M</u>			
ROL:		1.	AND MULCH. THE AREA	NOT AGGREGATE SURFACED TO BE SEEDED SHALL BE G EE INCHES BELOW THE PREP	RADED TO A SMOOTH E	VEN SUBGRADE
PROTECTION DURING C	ONSTRUCTION AS	2.	DESCRIBED, THREE INCH OF TOPSOIL TO THE PI	HE ENGINEER OF THE GRADI HES OF TOPSOIL SHALL BE F REPARED FINISHED GRADE,AM LVERIZER OR OTHER EFFECT	PLACED THEREON.AFTEF NY LARGE CLODS OR LI	R SPREADING JMPS SHALL
TRANCE AS INDICATED	ON DRAWING		MATTER SHALL BE REM FERTILIZING AND SEED	IOVED AND DISPOSED OF OFF ING, THE TOPSOIL SHALL BE DWING TO A DEPTH OF THRE	F THE SITE.IMMEDIATE BROUGHT TO A FRIABL	LY BEFORE
OF GRADING AS INDIC	ATED ON	3.	MDOT CLASS A CHEMIC	AL FERTILIZER SHALL BE U RFACE AT A RATE OF 540 F	INIFORMLY APPLIED ON	
DUST CONTROL.		4.	IMMEDIATELY AFTER TH SHALL BE SOWN IN AC FOR SEED MIXTURE TD	HE FERTILIZER HAS BEEN PL CORDANCE WITH MDOT SPEC. S.	LACED, GRASS SEED MIX 816.REFER TO MDOT T	(TURE TDS ABLE 917-1
REMOVED IMMEDIATELY. /ING 5A1329-5.		5.	SOWN, OR RESOWN, AT A	SOWN THROUGH MULCH.THE A RATE OF 220 POUNDS PER HYDRO-SEEDER TYPE EQUIP	ACRE WITH EITHER ME	ECHANICAL
ING AND AFTER MASS	GRADING OF		HYDRO-SEEDER OR THE UNIFORMITY OF APPLIC	BROADCAST METHOD WILL E ATION. AREAS SOWN BY HYDR ATED AND LIGHTLY COMPAC	BE VISUALLY INSPECTED RO-SEEDER OR THE BRO	D FOR DADCAST
N AND SEDIMENT CONT F A RAINFALL EVENT.	ROL	6.		IN THE PERIOD FROM APRIL S PERIOD UNLESS APPROVED		SEED SHALL
PIPING AND INLET PR ECTIONS AT MANHOLE ERDRAIN SYSTEM AND	UNTIL	7.	SHALL BE MULCHED. MU A UNIFORM THICKNESS	DMPLETION OF THE SEEDING JLCH SHALL CONSIST OF STA AT A RATE OF 2 TONS PER BY THE ENGINEER.UNLESS	RAW SPREAD OVER THE R ACRE (Ø.83 POUNDS P	SURFACE TO ER SQUARE
ENT UNIT PER VENDOR Sers, storm sewer "Alled.			SHALL BE HELD IN PLA THE ENGINEER OR BY U MATERIAL. THE CONTRA	ACE BY A SPRAY COATING O JSING A NOTCHED DISK THA ACTOR SHALL PROTECT ALL	OF ADHESIVE MATERIAL T PUNCHES AND ANCHOF TRAFFIC SIGNS, STRUCT	APPROVED BY RS THE MULCH IURES, AND
IPE AS INDICATED ON	STORMWATER		MULCH SHALL BE LOOS SLOWLY CIRCULATE, BU WATER EVAPORATION, AN	BEING MARKED OR DISFIGUR E ENOUGH TO ALLOW SUNLI T THICK ENOUGH TO SHADE ND PREVENT OR REDUCE WAT	GHT TO PENETRATE ANI THE GROUND, REDUCE T TER AND WIND EROSION	D AIR TO HE RATE OF . MULCH THAT
NTRACTOR IS RESPONSI NVIDE PROPER AND NEC ENTION SYSTEM.		8.	DURING THE PERIOD FF WATERED AS NECESSAR	D SHALL BE REPLACED AT 1 ROM APRIL 20 TO NOVEMBER Y UNTIL THE GRASS HAS BE	1, ALL AREAS SEEDED	SHALL BE
NDUIT. ATIONS.		9.		MULL PONSIBILITY OF THE CONTRA WELL ROOTED GROWTH.RESI		
) ON PLANS. ER OF SITE TO RESTO	RE AND		DROUGHT. SHOULD THE RESULT, THE CONTRACT	FIRST ATTEMPT AT SEEDING OR WILL BE RESPONSIBLE F CE THE DESIGNED RESULTS,	G FAIL TO PRODUCE THE FOR REPEATING THE NEW	E REQUIRED CESSARY
RAWING 5A1329-2.		10.	AFTER VEGETATION IS THE GROWTH OF BRUSH	ESTABLISHED, SLOPED AREAS	S WILL BE MOWED ONL'	Y TO DETER
ROPERTY LINES WITH S	SEED AND		<u>OIL EROSION</u> AINTENANCE:	<u>&amp; SEDIMENTAT</u>	<u>ION CONTROL</u>	
ES AFTER SUBSTATION /E APRONS AS INDICAT TER SURFACE RESTOR/ NAW COUNTY SOIL ERO	ED ON PLANS.		MEASURES AS SHOWN CONSTRUCTION ON THE EROSION CONTROL MEA	L IMPLEMENT AND MAINTAI ON THE PLANS BEFORE AND PROJECT. ANY MODIFICATIO SURES DUE TO CONSTRUCTIO REQUIRED OR DIRECTED BY	AT ALL TIMES DURING ONS OR ADDITIONS TO ON OR CHANGED CONDIT	SOIL TIONS SHALL
			ALL SOIL EROSION AN	D SEDIMENTATION CONTROL G OF WASHTENAW COUNTY.	WORK SHALL CONFORM	TO THE
		3.	DAILY INSPECTIONS SI MAY BE MADE BY THE EROSION AND SEDIMEN	HALL BE MADE BY THE CONT OWNER/ENGINEER TO DETER TATION CONTROL MEASURES.	RMINE THE EFFECTIVEN	ESS OF
		4.	FENCE WHICH IS UNDE IMPROPERLY SHALL BE	L BE INSPECTED DAILY, INC RMINED, CLOGGED, FALLING C REPAIRED AND RESTORED	DVER.OR OTHERWISE FU	NCTIONING
		5.	ON THE SITE AND NOT	S. DIMENTATION FROM WORK ON ALLOWED TO COLLECT ON S INCLUDE BOTH NATURAL	ANY OFF SITE AREAS	OR IN
DUE TO WEATHER OR PI INSTRUCTION NOTES ON		6.	THE CONTRACTOR SHAL	NS, LAKES AND PONDS.	TO CLEAN SOIL MATERI	ALS FROM
N AND MAINTENANCE C COMPLY WITH THE WA	ASHTENAW	7.		ED INTO CITY STREETS & S		
ENTATION CONTROL PE JRCE MANAGEMENT	R WASHTENAW		MUD/DIRT TRACKED OF	ALL BE PROMPTLY REMOVED R SPILLED ON PAVED ROAD BE PROMPTLY REMOVED BY EEKLY AT A MINIMUM.	SURFACES WITHIN AND	ADJACENT
		8.		A PROBLEM ON SITE, CONTF F DUST CONTROL ACCEPTABL		TERING OR
PERMITS FROM LOCAI N APPLICABLE.		9.	THE GENERAL CONTRAD SOIL SEDIMENT FROM	CTOR SHALL TAKE ALL NECE LEAVING THE SITE.	ESSARY PRECAUTIONS T	O PREVENT
DISCHARGE WATER VEL(		10		AND SEDIMENT CONTROL MEA Y ON-SITE INSPECTION.	SURES SHALL BE INST	ALLED IF
D DISCHARGE. DISCHAR ND OR WATER BODY.	GE SHALL BE		REFERENCE I	ORAWINGS:		
D DECONTAMINATION W IDERED CONTACT WATE DISPOSED OF OFF SI	R. CONTACT		SITE PLAN — — — - SITE PREPARATION AND	 ) DEMOLITION PLAN )IMENT CONTROL PLAN ENT PLAN		5A1329-5
WATERING PLAN PROVIE FOR DETAILS.	DED BY THE		DATE SUBMITTED			
			DATE SUBMITTED			
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APPROV/ DATE	ENGINEERING MADE BY	DATE		DTE Electric	Central Des	ign/Standar
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	G.J. ESKOLA/BV project design/elect	11/22/24 DATE				
	PROJECT DESIGN/ACT	DATE	LOCATION NAME	SUBSTATION	SERVICE CENTER	scale NONE

Central Design/Standards

PROJECT DOCUMENT LIST

WORK ORDER

69084198 GRENA-PDL-A-69084198

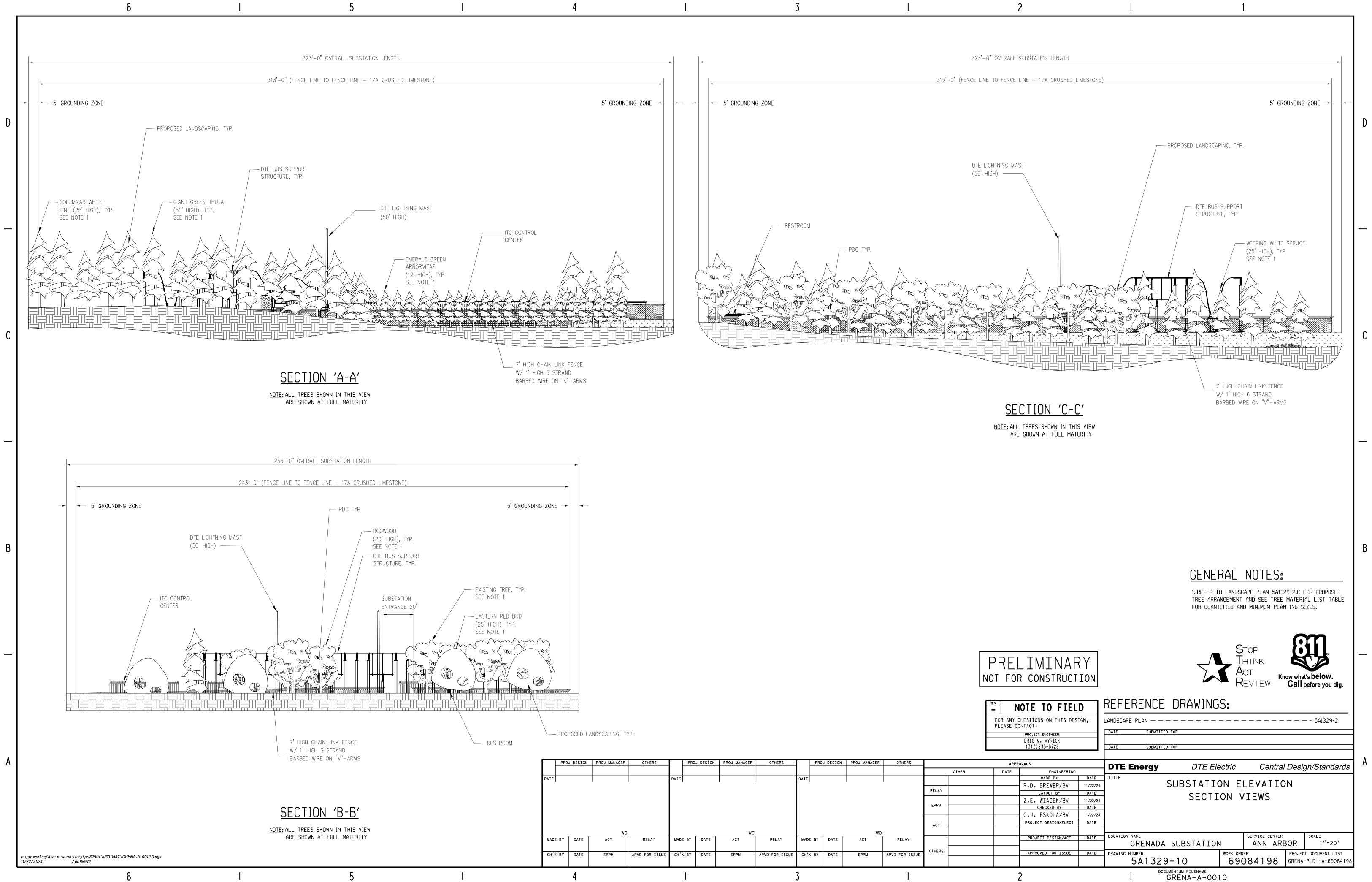
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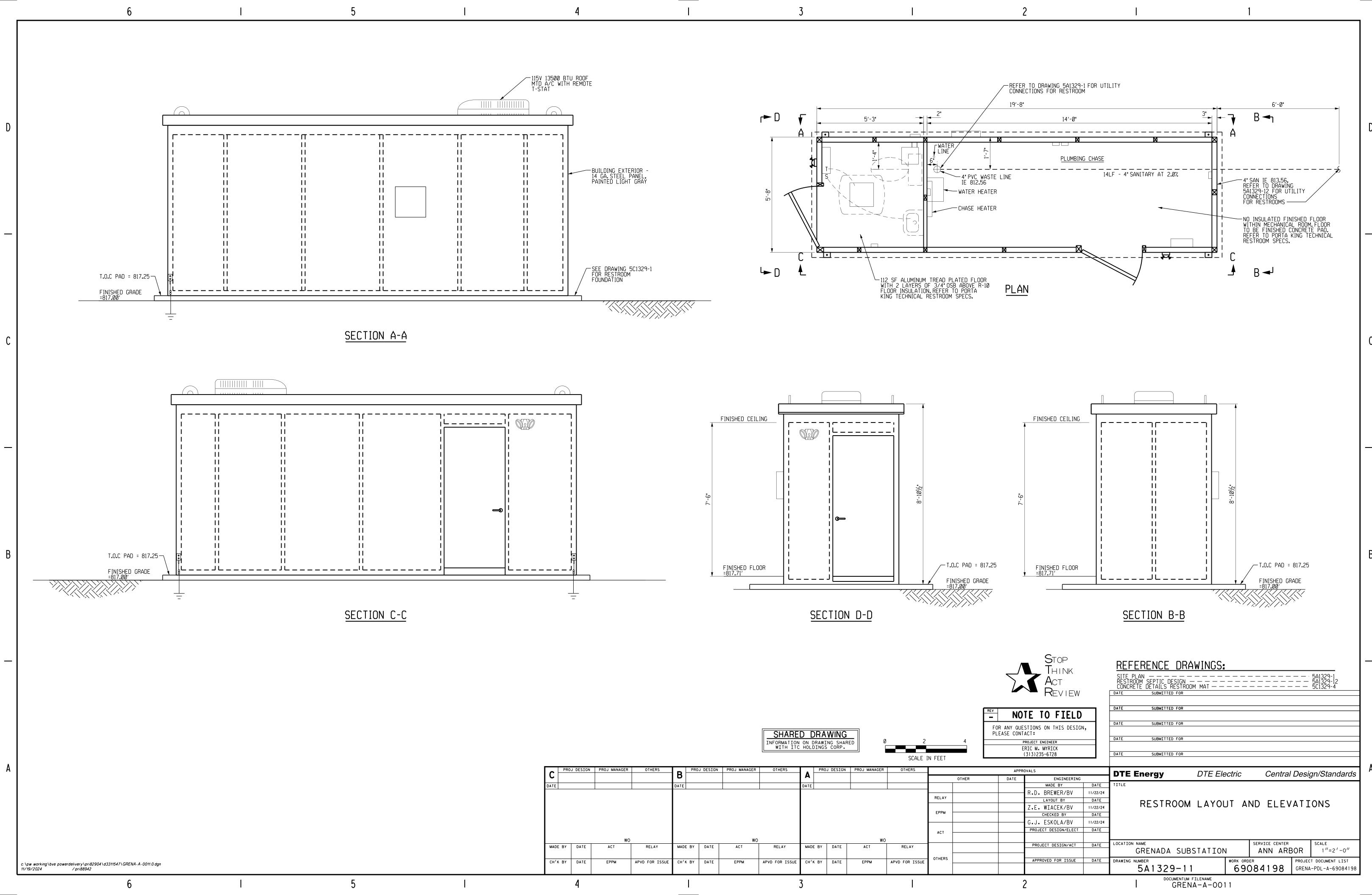
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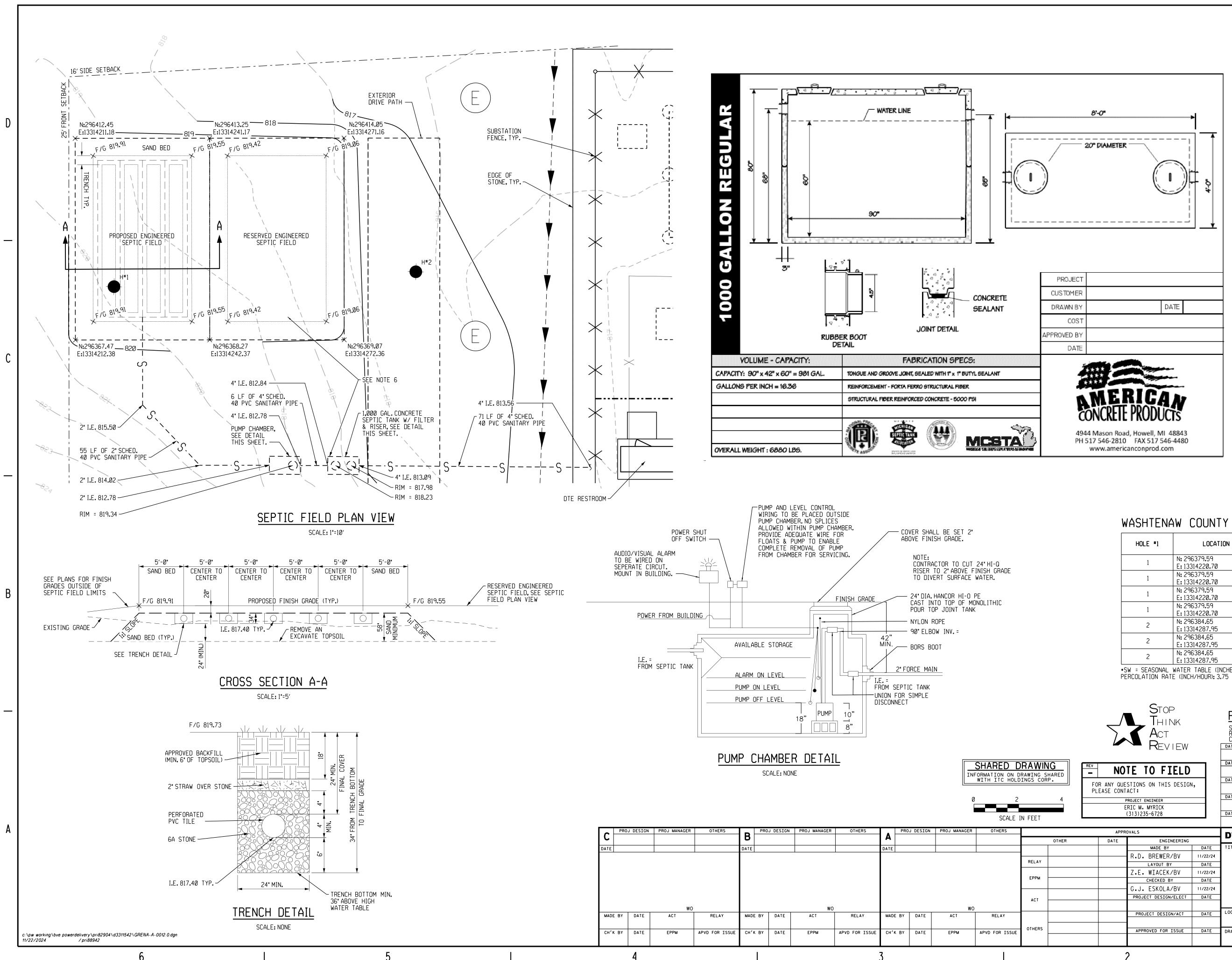
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# SEWAGE DISPOSAL SYSTEM:

- 1. SET THE FIRST FLOOR ELEVATION, BUILDING INVERT ELEVATION, AND FINISH GRADE ELEVATION WHEREBY THE REQUIRED DRAINFIELD INVERT ELEVATION CAN BE MET AS SPECIFIED.
- 2. STRIP THE TOPSOIL AND ANY NON-NATIVE FILL MATERIAL FROM THE DRAINFIELD AREA AND REPLACE WITH CLEAN, COARSE SAND (OR ENGINEER APPROVED EQUAL).
- 3. INSTALL THE TILE LINES TO PROVIDED INVERT ELEVATIONS, AT THE FOOTER, NO LOWER THAN 813.81.
- 4. THE FILL PLACED OVER THE DRAINFIELD SHALL HAVE A MINIMUM DEPTH OF 10 INCHES AND A MAXIMUM DEPTH OF 28 INCHES.
- SEPTIC FIELD SHALL MAINTAIN A MINIMUM ISOLATION DISTANCE OF 50 FEET 5. TO SURFACE WATERS AND 100 FEET FROM WELL LOCATION. SEPTIC TANK SHALL MAINTAIN A MINIMUM ISOLATION DISTANCE OF 75 FEET FROM WELL LOCATION AND 50 FEET TO SURFACE WATERS.
- 6. REFER TO DRAWING 5A1329-4 FOR BENCHMARKS.
- 7. ITEMS: TOPSOIL REMOVAL, JOB START, FIXTURE COUNT, FINAL INSPECTION MUST BE VERIFIED BY THE HEALTH DEPARTMENT. CALL (734)-544-6700 A MINIMUM OF 24 HOURS IN ADVANCE FOR INSPECTIONS.
- 8. THE FOLLOWING ADDITIONAL SEWAGE DISPOSAL PROVISIONS ARE APPLICABLE: A. INSTALL THE ONSITE SEWAGE DISPOSAL SYSTEM IN ACCORDANCE WITH THE SITE PLAN APPROVED BY THE WASHTENAW COUNTY HEALTH DEPARTMENT.
- B. REMOVE THE TOPSOIL/FILL USING A METHOD THAT DOES NOT COMPACT THE UNDERLYING SOIL.
- C. DO NOT USE A LOADER BUCKET OR A LOADER.
- 9. INSTALL THE SEPTIC SYSTEM A MINIMUM OF 10' AWAY FROM PROPERTY LINES AND 10' FROM BUILDING FOUNDATIONS.
- 10. PROVIDE POSITIVE SURFACE DRAINAGE FROM THE TILE DRAIN FIELD AREA.
- THE AREA OF THE TILE FIELD SHALL BE FENCED/ROPED OFF TO PREVENT 11. CONSTRUCTION TRAFFIC WHILE THE STATION IS BEING BUILT. THIS WILL PREVENT THE SOIL IN THE TILE FIELD AREA FROM BECOMING COMPACTED.
- 12. ANY DEVIATION FROM THIS PERMIT MUST HAVE PRIOR APPROVAL FROM WASHTENAW COUNTY HEALTH DEPARTMENT.

WASHTENAW	COUNTY	SOIL	EVALUATION
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HOLE #1	LOCATION	DEPTH	SOIL TYPE	SW
1	N: 296379.59 E: 13314220.70	0'-0.5'	TOPSOIL & SANDY LOAM	6.5′
1	N: 296379.59 E: 13314220.70	0.5′-9.5′	SANDY CLAY LOAM	6.5′
1	N: 296379.59 E: 13314220.70	9.5′-14.5′	LOAMY SAND	6.5′
1	N: 296379.59 E: 13314220.70	14.5'-15.5'	BLUE CLAY	6 <b>.</b> 5′
2	N: 296384.65 E: 13314287.95	0'-0.5'	TOPSOIL & SANDY LOAM	6.5′
2	N: 296384.65 E: 13314287.95	0.5′-6′	SANDY LOAM & LOAMY SAND	6.5′
2	N: 296384.65 E: 13314287.95	6'-11'	SAND	6.5′

*SW = SEASONAL WATER TABLE (INCHES) AS EVIDENCED BY MOTTLING OF THE SOIL

	STOP THINK ACT REVIEW		REFERENCE					5A1329-1 5A1329-11 5C1329-4
10	TE TO FIELD		DATE SUBMITTED F	OR				
	STIONS ON THIS DESIGN	۷,	DATE SUBMITTED F	OR				
	PROJECT ENGINEER		DATE SUBMITTED F	OR				
	RIC M. MYRICK							
	(313)235-6728		DATE SUBMITTED F	OR				
APPR	OVALS		DTE Energy	DTE Ele	octric	Central	Desi	gn/Standards
E	ENGINEERING					Ocinital	Desig	grill Otaridardo
	MADE BY	DATE	TITLE					
	R.D. BREWER/BV	11/22/24						
	LAYOUT BY	DATE	RF	STROOM S	SFPT'	TC DEST	GN	
	Z.E. WIACEK/BV	11/22/24						
	CHECKED BY	DATE						
	G.J. ESKOLA/BV	11/22/24						
	PROJECT DESIGN/ELECT	DATE						
	PROJECT DESIGN/ACT	DATE	LOCATION NAME			SERVICE CENTER		SCALE
			GRENADA S	SUBSTATION		ANN ARE	BOR	NONE
	APPROVED FOR ISSUE	DATE	DRAWING NUMBER		WORK ORD	ER	PROJEC	T DOCUMENT LIST
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# STORMWATER MANAGEMENT

THE GRENADA SUBSTATION SITE IS LOCATED WITHIN SUPERIOR TOWNSHIP, EAST OF DIXBORO ROAD AND SOUTH OF PLYMOUTH ROAD IN WASHTENAW COUNTY, MI. THE TOPOGRAPHY OF THE SITE HAS SLOPES ACROSS THE SITE RANGING FROM (1.25% - 33.25%) WITH ELEVATIONS RANGING BETWEEN (810.00 AND 826.00) AND HAS A NATURAL DRAINAGE PATH FROM THE NORTHWEST CORNER TO THE SOUTH EAST CORNER OF THE PROPERTY. THE SITE HAS AN EXISTING SUBSTATION BUILDING AND YARD THAT WILL BE EXPANDED AS PART OF THIS PROJECT. THE COMPLETED SUBSTATION YARD WILL BE SURFACED WITH LOOSE MDOT 17A STONE MATERIAL ABOVE A CLEAN FILL MATERIAL LAYER WITH INTERIOR DRIVEWAYS SURFACED WITH 21AA CRUSHED GRAVEL. THE EXISTING ACCESS DRIVEWAY TO THE SUBSTATION WILL BE WIDENED TO 20-FEET WIDE AND A NEW CONCRETE APPROACH OFF OF DIXBORO ROAD WILL BE CONSTRUCTED. AREAS OUTSIDE OF THE SUBSTATION WILL BE STABILIZED WITH SEED AND MULCH, AND NEW TREES WILL BE FURNISHED FOR SCREENING ALONG ALL PROPERTY BOUNDARIES STORMWATER GENERATED ON SITE WILL FILTER THROUGH THE LOOSE STONE SURFACING OF THE SUBSTATION AND WILL BE COLLECTED BY A PERFORATED UNDERDRAIN SYSTEM. THESE UNDERDRAINS CONNECT TO A NETWORK OF STORM SEWERS AND STRUCTURES THAT WILL CONVEY RUNOFF ON SITE TO AN UNDERGROUND DETENTION SYSTEM SOUTH OF THE SUBSTATION PAD. AN OUTLET CONTROL STRUCTURE WILL BE INSTALLED WITHIN THE DETENTION AREA. THE STRUCTURE WILL CONTAIN AN 18" OUTLET PIPE AND A PRECAST CONCRETE FLOW RESTRICTOR WALL WITH AN OVERFLOW OPTION. THE PRECAST RESTRICTOR WALL WILL HAVE DRILLED ORIFICES AT THE FIRST FLUSH ELEVATION INDICATED ON PLANS CONTROLLING THE 100-YEAR DETENTION VOLUME. THE 18" OUTLET PIPE WILL DISCHARGE TO A LOW AREA IN THE SOUTH EAST CORNER OF THE SITE, HEAVY LINED WITH RIP-RAP TO AVOID EROSION OF ADJACENT PROPERTIES. ALL RUNOFF FROM THE SITE WILL ULTIMATELY DRAIN BACK TO FLEMMING CREEK. THERE ARE NO WETLANDS, STREAMS, OR LAKES WITHIN THE PROPERTY OR WITHIN 1,000 FEET OF THE PROPERTY THAT WILL BE AFFECTED DURING

CONSTRUCTION.

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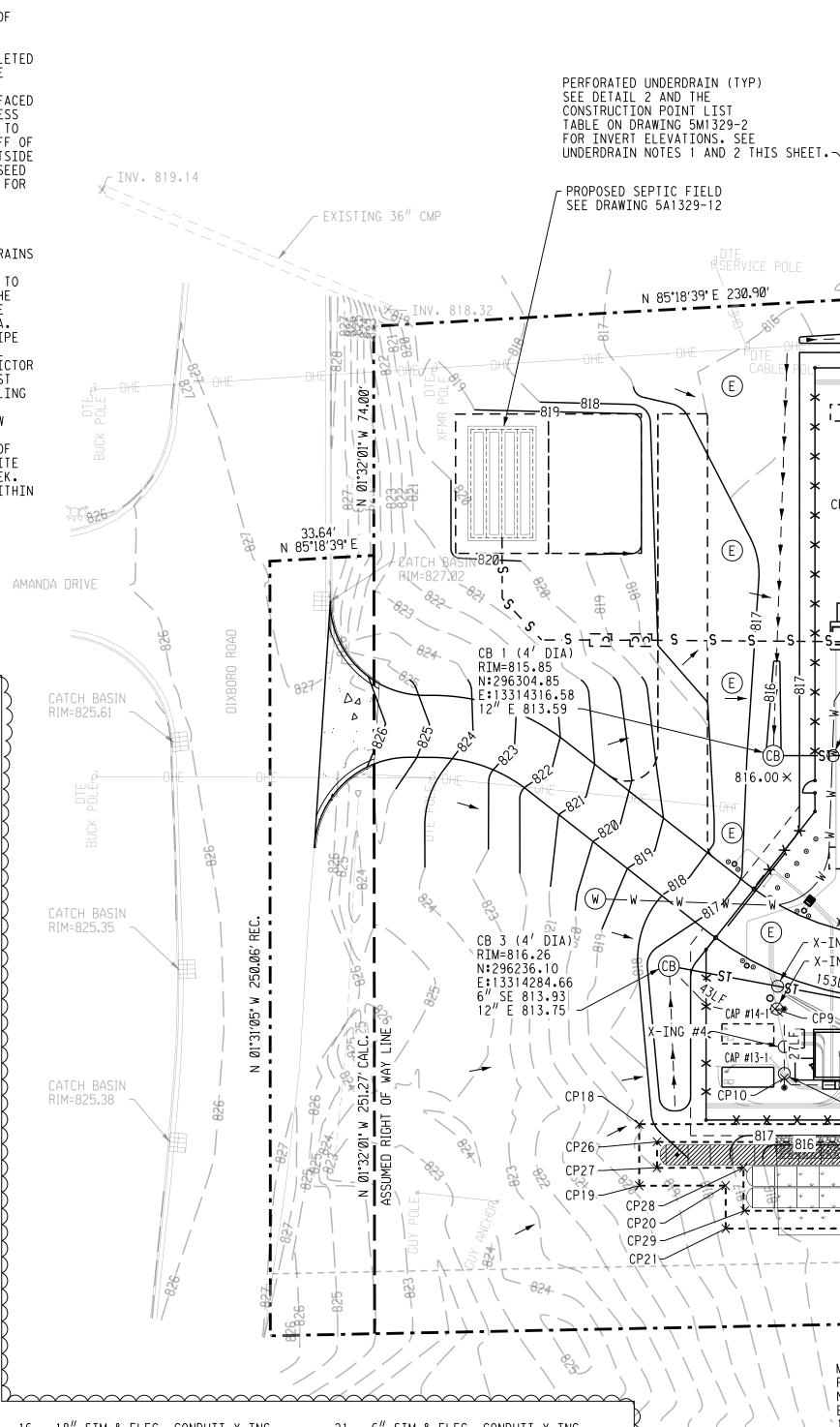
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### UTILITY CROSSINGS: 12" STM & 1" WATER X-ING B.O.P. = 813.05 T.0.P. = 812.00VERT. CLEAR. = (1.05')12" STM & ELEC. CONDUIT X-ING $B \cdot O \cdot C \cdot = X X \cdot X X$ $T \cdot O \cdot P \cdot = X X \cdot X X$ VERT. CLEAR. = (X.XX)6" STM & ELEC. CONDUIT X-ING $B \cdot O \cdot P \cdot = X X \cdot X X$ $T \cdot O \cdot C \cdot = X \times X \cdot X \times X$ VERT. CLEAR. = $(X \cdot XX)$ 6" STM & ELEC. CONDUIT X-ING $B \cdot O \cdot P \cdot = X X \cdot X X$ $T \cdot O \cdot C \cdot = X X \cdot X X$ VERT. CLEAR. = $(X \cdot XX)$ 6" STM & ELEC. CONDUIT X-ING X 5. $B \cdot O \cdot P \cdot = X X \cdot X X$ $T \cdot O \cdot C \cdot = X X \cdot X X$ VERT. CLEAR. = $(X \cdot XX)$ 6" STM & ELEC. CONDUIT X-ING $B \cdot O \cdot P \cdot = X X \cdot X X$ $T \cdot O \cdot C \cdot = X X \cdot X X$ VERT. CLEAR. = $(X \cdot XX)$ 6" STM & ELEC. CONDUIT X-ING $B \cdot O \cdot P \cdot = X X \cdot X X$ $T \cdot O \cdot C \cdot = X X \cdot X X$ VERT. CLEAR. = (X.XX)12" STM & ELEC. CONDUIT X-ING N 8. B.O.C. = XXX.XX T.O.P. = XXX.XX VERT. CLEAR. = (X.XX)12" STM & ELEC. CONDUIT X-ING $B \cdot O \cdot C \cdot = X \times X \cdot X \times X$ $T \cdot O \cdot P \cdot = X X \cdot X X$ VERT. CLEAR. = (X.XX)10. 15" STM & ELEC. CONDUIT X-ING B.O.C. = XXX.XX T.O.P. = XXX.XX VERT. CLEAR. = (X.XX)11. 6" STM & ELEC. CONDUIT X-ING $B \cdot O \cdot P \cdot = X X \cdot X X$ $T \cdot O \cdot C \cdot = X X \cdot X X$ VERT. CLEAR. = (X.XX)12. 15" STM & ELEC. CONDUIT X-ING B.O.C. = XXX.XX T.O.P. = XXX.XX VERT. CLEAR. = (X.XX)

13. 6" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot P \cdot = X X X \cdot X X$  $T \cdot O \cdot C \cdot = X X \cdot X X$ VERT. CLEAR. = (X.XX)

- 14. 18" STM & ELEC. CONDUIT X-ING B.O.C. = XXX.XX T.O.P. = XXX.XX VERT. CLEAR. = (X.XX)
- 15. 6" STM & 18" STM X-ING 6'' B.0.P. = 813.6018'' T.O.P. = 813.32 VERT. CLEAR. = (0.28')



- 16. 18" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot C \cdot = X X \cdot X X$  $T \cdot O \cdot P \cdot = X X \cdot X X$ VERT. CLEAR. =  $(X \cdot XX)$
- 17. 6" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot P \cdot = X X X \cdot X X$  $T \cdot O \cdot C \cdot = X X \cdot X X$ VERT. CLEAR. =  $(X \cdot XX)$
- 18. 18" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot C \cdot = X X \cdot X X$  $T \cdot O \cdot P \cdot = X X X \cdot X X$ VERT. CLEAR. =  $(X \cdot XX)$
- 19. 24" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot C \cdot = X X \cdot X X$  $T \cdot O \cdot P \cdot = X X \cdot X X$ VERT. CLEAR. =  $(X \cdot XX)$
- 20. 6" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot P \cdot = X X \cdot X X$  $T \cdot O \cdot C \cdot = X \times X \cdot X \times X$ VERT. CLEAR. =  $(X \cdot XX)$

- 21. 6" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot P \cdot = X X X \cdot X X$  $T \cdot O \cdot C \cdot = X X \cdot X X$ VERT. CLEAR. =  $(X \cdot XX)$
- 22. 18" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot C \cdot = X X X \cdot X X$  $T \cdot 0 \cdot P \cdot = XXX \cdot XX$ VERT. CLEAR. =  $(X \cdot XX)$
- 23. 6" STM & 15" STM X-ING  $6'' B \cdot 0 \cdot P \cdot = 813 \cdot 85$ 15'' T.O.P. = 813.71 VERT. CLEAR. = (0.14')

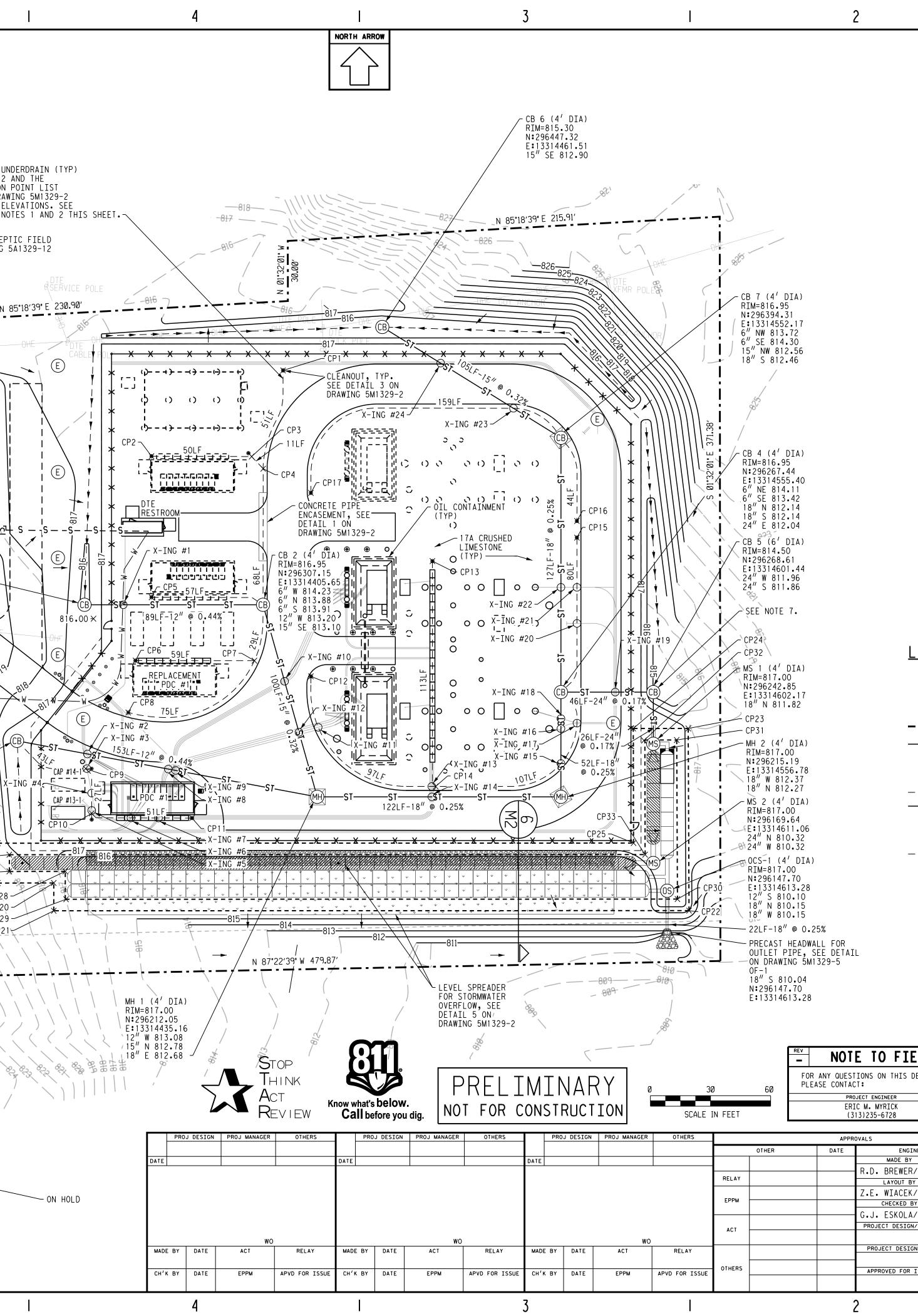
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- 24. 15" STM & ELEC. CONDUIT X-ING  $B \cdot O \cdot C \cdot = X X X \cdot X X$  $T \cdot 0 \cdot P \cdot = XXX \cdot XX$ VERT. CLEAR. =  $(X \cdot XX)$
- B.O.P. = BOTTOM OF PIPE B.O.C. = BOTTOM OF CONDUIT T.O.C. = TOP OF CONDUIT/CONC ENCASEMENT
- $T \cdot 0 \cdot P \cdot = TOP OF PIPE$ hanne the second second

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- ON HOLD



	<u>pipe material</u>	:	
	PROTECTIVE WRAP U.N.O. ESTIMATED QUANTITY 6" ADS ESTIMATED QUANTITY 12" CL ESTIMATED QUANTITY 15" CL	N-12 ST IB HDPE PE IV REINFORCED CONC IV REINFORCED CONC IV REINFORCED CONC IV REINFORCED CONC	ADS N-12 DUAL WALL PIPE WITH RFORATED PIPE = 1,121 LINEAL FT. RETE PIPE = 242 LINEAL FT. RETE PIPE = 205 LINEAL FT. RETE PIPE = 323 LINEAL FT. CRETE PIPE = 72' LINEAL FT.
	STORMWATER N 1. SEE DRAWING 5M1329-		TRUCTURE
	FRAMES AND COVERS. 2. SEE DETAIL ON DRAWI		YPICAL
	DETENTION SYSTEM SE 3. MDOT 17A STONE AROL COMPACTED TO 95% OF	IND FOUNDATIONS SH	
	AS DETERMINED BY TH (ASTM D1557), IN LI	E MODIFIED PROCTO	R METHODS
	4. SEE DRAWING 5M1329- SYSTEM DETAILS.		
	5. CONTRACTOR SHALL HA ADVANCED DRAINAGE S OF THE STORMWATER D FOR INSPECTION.	SYSTEMS DURING CON	ISTRUCTION
	6. CONTRACTOR TO NOTIF PRIOR TO INSTALLING STRUCTURES, AND STC FOR INSPECTION.	G BASE STONE, PRE-	TREATMENT
	7. CONTRACTOR TO PROVI BASIN STRUCTURE AND POSITIONED ON THE E OF SLOPE.	) HAVE GRATE AND F	RAME
	STORMWATER C SEE DRAWING 5M1329-2.	ALCULATIO	<u>NS</u>
	PROJECT SCHE	DULE	
	UTILITY WARN		
	A MINIMUM OF 3 WORKING CONTRACTOR SHALL NOTIFY UTILITIES STAKED BEFORE	DAYS PRIOR TO BEC Y "MISS DIG" AND F E ANY WORK MAY BEC	GINNING CONSTRUCTION, THE HAVE ALL UNDERGROUND GIN.
	UNDERDRAIN N		
	1. ALL UNDERDRAIN PIPE 2. ALL UNDERDRAIN SHAL		
	ON THIS PLAN.		
LEGEND:	EXISTING FIRE HYDRANT		STORM/WATER UTILITY EASEMENT
	EXISTING WATER SHUT OFF EXISTING CATCH BASIN		- EXISTING CONTOUR - PROPOSED CONTOUR
D	EXISTING STORM MANHOLE • PROPERTY LINE	MS	PROPOSED MANHOLE
<del>~ x x x</del>	- PROPOSED FENCE	CB OS	PROPOSED CATCH BASIN PROPOSED STORM OUTLET STRUCTURE
0 ()	PROPOSED FOUNDATION FUTURE FOUNDATION	Ē	UNDERGROUND CONDUIT MANHOLE
	- 6" PERFORATED UNDERDRAIN	°°°	CARD READER CLEANOUT
S⊺ ⊕	<ul> <li>PROPOSED STORM SEWER</li> <li>REMOVABLE BOLLARD</li> </ul>		DRAINAGE FLOW ARROW
٥	FIXED BOLLARD		RIP RAP
	PROPOSED DRAINAGE SWALE CENTERLINE		CABLE TRENCH
F	REFERENCE DRAWI	NGS:	
 F	SITE PLAN — — — — — — — — XISIING CONDITIONS PLAN — —		5A1329-1 5A1329-4
	GOIL EROSION AND SEDIMENT CON GOIL EROSION AND SEDIMENT CON	ITROL PLAN — — — ITROL NOTES AND DE	— — — — — — — — — — 5A1329-8 TAILS — — — — — — 5A1329-9
F	RESTROOM LAYOUT AND ELEVATION STORMWATER DETAILS (1 OF 4) — STORMWATER DETAILS (2 OF 4) —	5 — — — — — — — — — - — — — — — — — — — —	- — — — — — — — 5A1329-11 — — — — — — — — 5M1329-2 — — — — — — — — - 5M1329-3 — — — — — — — — - 5M1329-4 — — — — — — — - 5M1329-5
	STORMWATER DETAILS (3 OF 4) STORMWATER DETAILS (4 OF 4)		— — — — — — — — — — 5M1329-4 — — — — — — — — 5M1329-5
	DATE SUBMITTED FOR		
	DATE SUBMITTED FOR		
TO FIELD	DATE SUBMITTED FOR		
ONS ON THIS DESIGN,	DATE SUBMITTED FOR		
: ct engineer M. MYRICK	DATE SUBMITTED FOR		
M. MIRICK )235-6728	DATE SUBMITTED FOR		
ALS ENGINEERING	DTE Energy	DTE Electric	Central Design/Standards
MADE BY DATE R.D. BREWER/BV 11/22/24	TITLE		
LAYOUT BY DATE Z.E. WIACEK/BV 11/22/24	STORMWAI	FER MANAGI	EMENT PLAN
CHECKED BY DATE G.J. ESKOLA/BV 11/22/24			
PROJECT DESIGN/ELECT DATE	LOCATION NAME	c	ERVICE CENTER SCALE
PROJECT DESIGN/ACT DATE	GRENADA SUBST		ANN ARBOR 1"=30'-0"

PROJECT ENGINEER

(313)235-6728

APPROVED FOR ISSUE

DRAWING NUMBER

5M1329-1

DOCUMENTUM FILENAME

GRENA-M-0001

WORK ORDER

PROJECT DOCUMENT LIST

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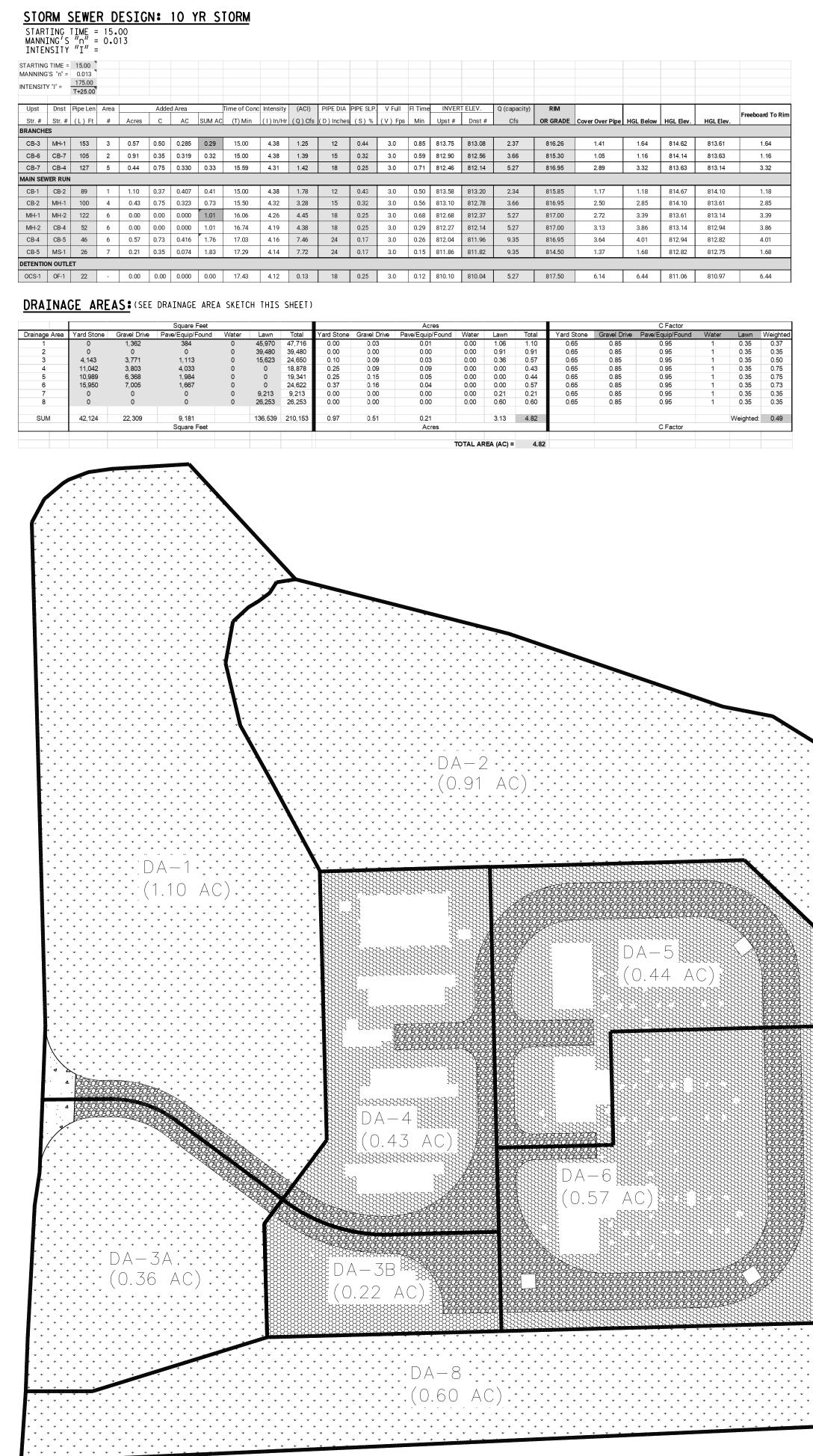
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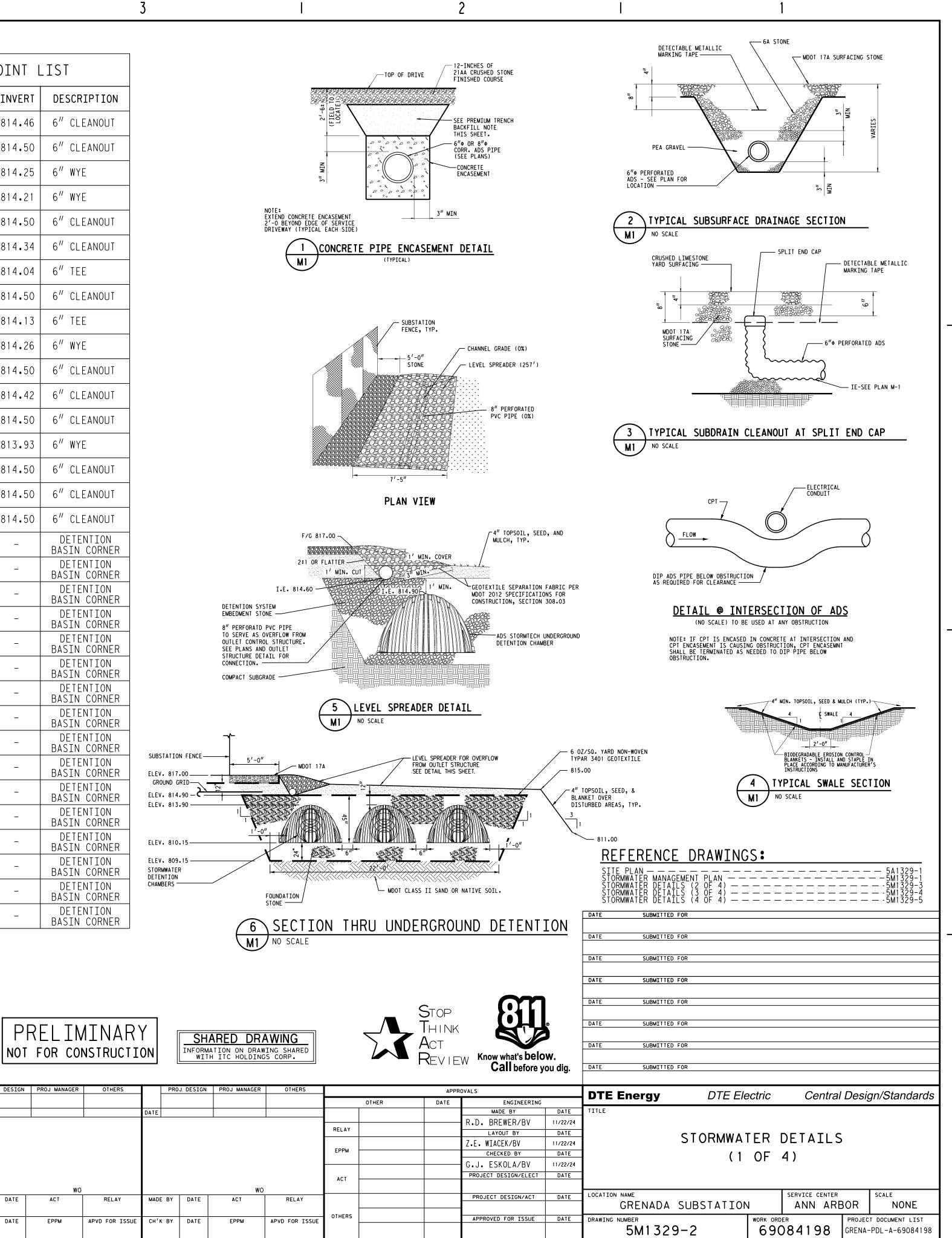
CP-2	N:296379.82 E:13314348.11	814.50	6" CLEANOUT
CP-3	N:296380.94 E:13314398.07	814.25	6″ WYE
CP-4	N:296375.02 E:13314403.99	814.21	6″ WYE
CP-5	N:296309.49 E:13314349.92	814.50	6″ CLEANOUT
CP-6	N:296277.67 E:13314342.73	814.34	6″ CLEANOUT
CP-7	N:296279.16 E:13314402.09	814.04	6″ TEE
CP-8	N:296253.82 E:13314332.14	814.50	6″ CLEANOUT
CP-9	N:296223.21 E:13314322.28	814.13	6″ TEE
CP-10	N:296200.90 E:13314322.86	814.26	6″ WYE
CP-11	N:296199.85 E:13314372.98	814.50	6″ CLEANOUT
CP-12	N:296272.07 E:13314430.48	814.42	6″ CLEANOUT
CP-13	N:296331.12 E:13314489.61	814.50	6″ CLEANOUT
CP-14	N:296218.76 E:13314494.15	813.93	6" WYE
CP-15	N:296344.71 E:13314561.43	814.50	6″ CLEANOUT
CP-16	N:296352.98 E:13314561.21	814.50	6″ CLEANOUT
CP-17	N:296363.54 E:13314428.10	814.50	6″ CLEANOUT
CP-18	N:296184.80 E:13314276.39	-	DETENTION BASIN CORNER
CP-19	N:296164.93 E:13314276.91	-	DETENTION BASIN CORNER
CP-20	N:296165.70 E:13314304.82	-	DETENTION BASIN CORNER
CP-21	N:296151.81 E:13314305.17	-	DETENTION BASIN CORNER
CP-22	N:296160.08 E:13314622.15	-	DETENTION BASIN CORNER
CP-23	N:296250.94 E:13314619.39	-	DETENTION BASIN CORNER
CP-24	N:296250.22 E:13314592.00	_	DETENTION BASIN CORNER
CP-25	N:296193.05 E:13314593.61	_	DETENTION BASIN CORNER
CP-26	N:296179.20 E:13314282.29	_	DETENTION BASIN CORNER
CP-27	N:296170.84 E:13314282.51	-	DETENTION BASIN CORNER
CP-28	N:296171.612 E:13314310.42	-	DETENTION BASIN CORNER
CP-29	N:296157.70 E:13314310.77	_	DETENTION BASIN CORNER
CP-30	N:296165.68 E:13314616.23	_	DETENTION BASIN CORNER
CP-31	N:296245.04 E:13314613.82	_	DETENTION BASIN CORNER
CP-32	N:296244.63 E:13314597.91	_	DETENTION BASIN CORNER
CP-33	N:296187.45 E:13314599.52	_	DETENTION BASIN CORNER

NOTE TO FIELD

FOR ANY QUESTIONS ON THIS DESIGN,

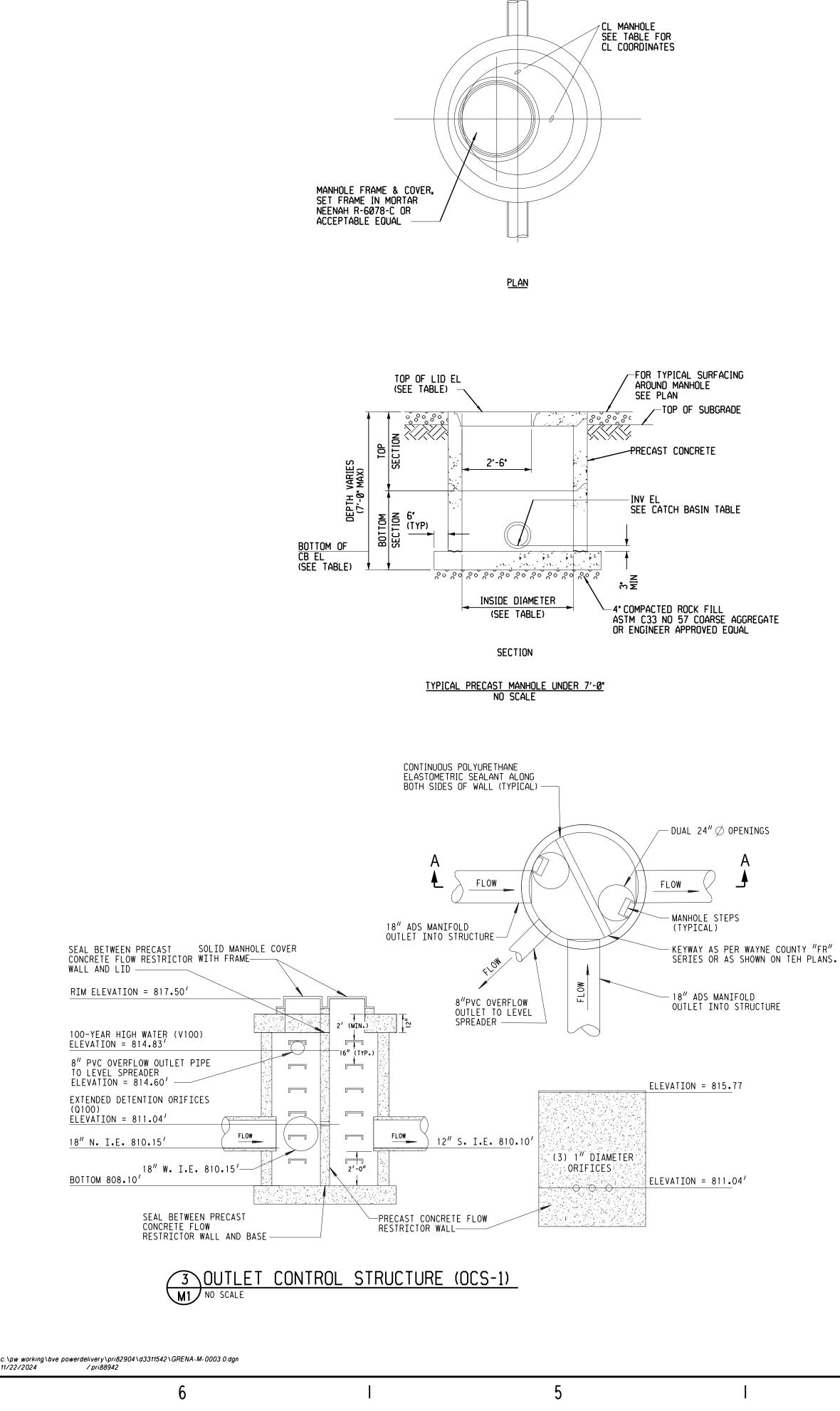
PROJECT ENGINEER

PLEASE CONTACT:



CONSTRUCTION POINT LIST									
ONSTRUCTION POINT	COORDINATE	INVERT	DESCRIPTION						
CP-1	N:296424.33 E:13314412.62'	814.46	6" CLEANOUT						
CP-2	N:296379.82 E:13314348.11	814.50	6" CLEANOUT						
CP-3	N:296380.94 E:13314398.07	814.25	6" WYE						
CP-4	N:296375.02 E:13314403.99	814.21	6" WYE						
CP-5	N:296309.49 E:13314349.92	814.50	6" CLEANOUT						
CP-6	N:296277.67 E:13314342.73	814.34	6" CLEANOUT						
CP-7	N:296279.16 E:13314402.09	814.04	6″ TEE						
CP-8	N:296253.82 E:13314332.14	814.50	6" CLEANOUT						
CP-9	N:296223.21 E:13314322.28	814.13	6″ TEE						
CP-10	N:296200.90 E:13314322.86	814.26	6" WYE						
CP-11	N:296199.85 E:13314372.98	814.50	6" CLEANOUT						
CP-12	N:296272.07 E:13314430.48	814.42	6" CLEANOUT						
CP-13	N:296331.12 E:13314489.61	814.50	6" CLEANOUT						
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CP-15	N:296344.71 E:13314561.43	814.50	6" CLEANOUT						
CP-16	N:296352.98 E:13314561.21	814.50	6" CLEANOUT						
CP-17	N:296363.54 E:13314428.10	814.50	6" CLEANOUT						
CP-18	N:296184.80 E:13314276.39	_	DETENTION BASIN CORNER						
CP-19	N:296164.93	_	DETENTION BASIN CORNER						





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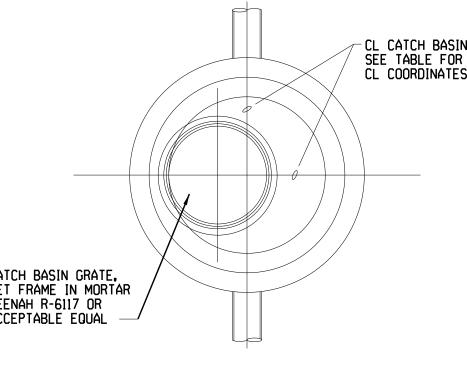
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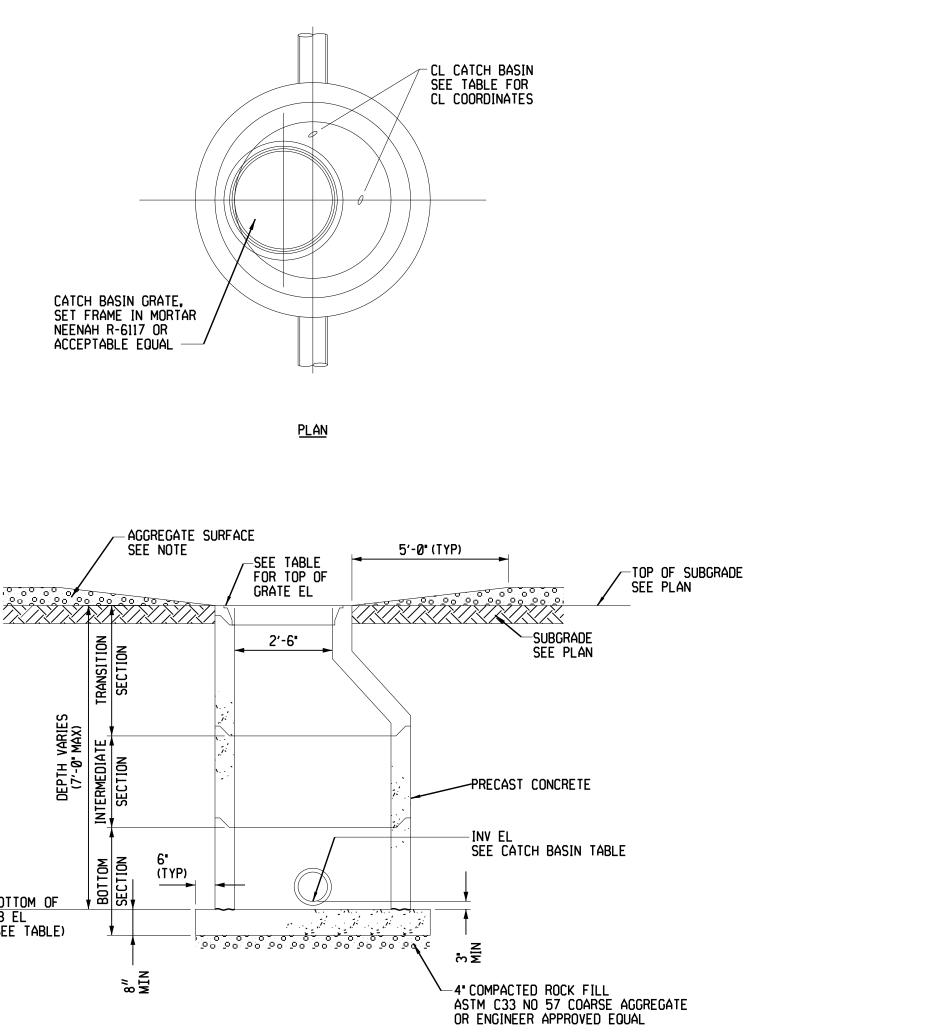
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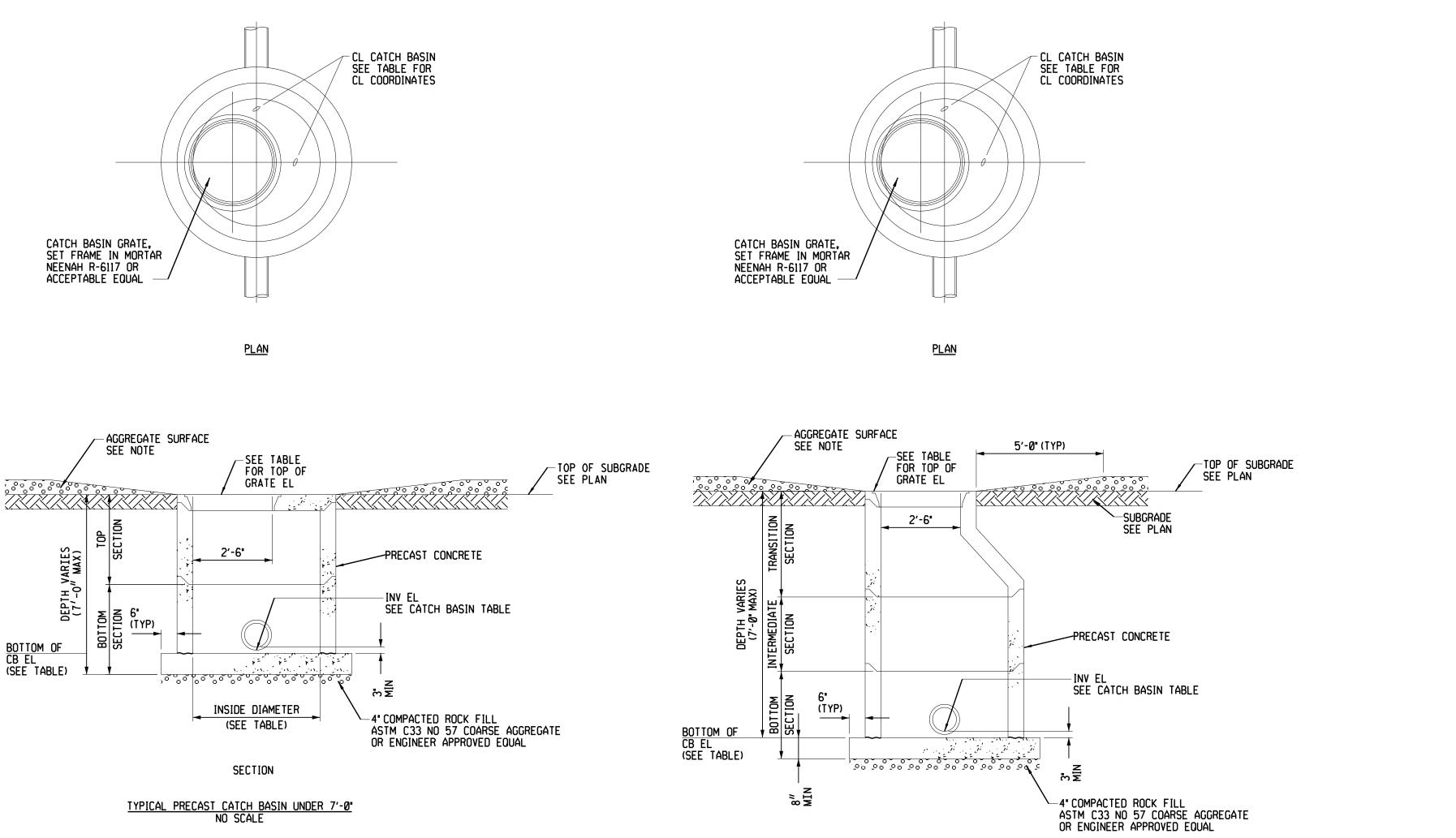
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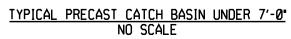




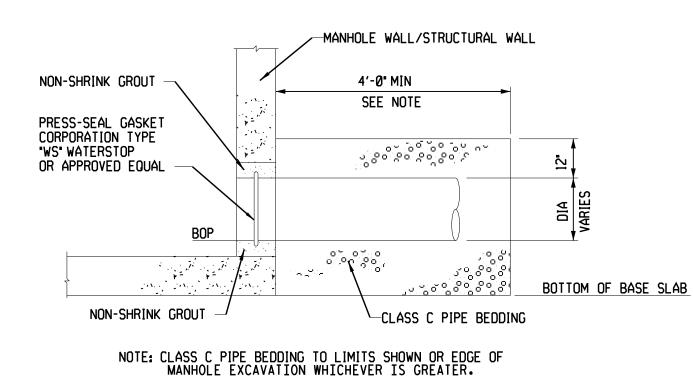


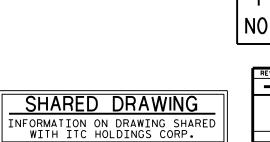


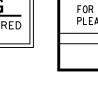


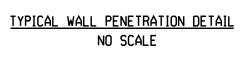














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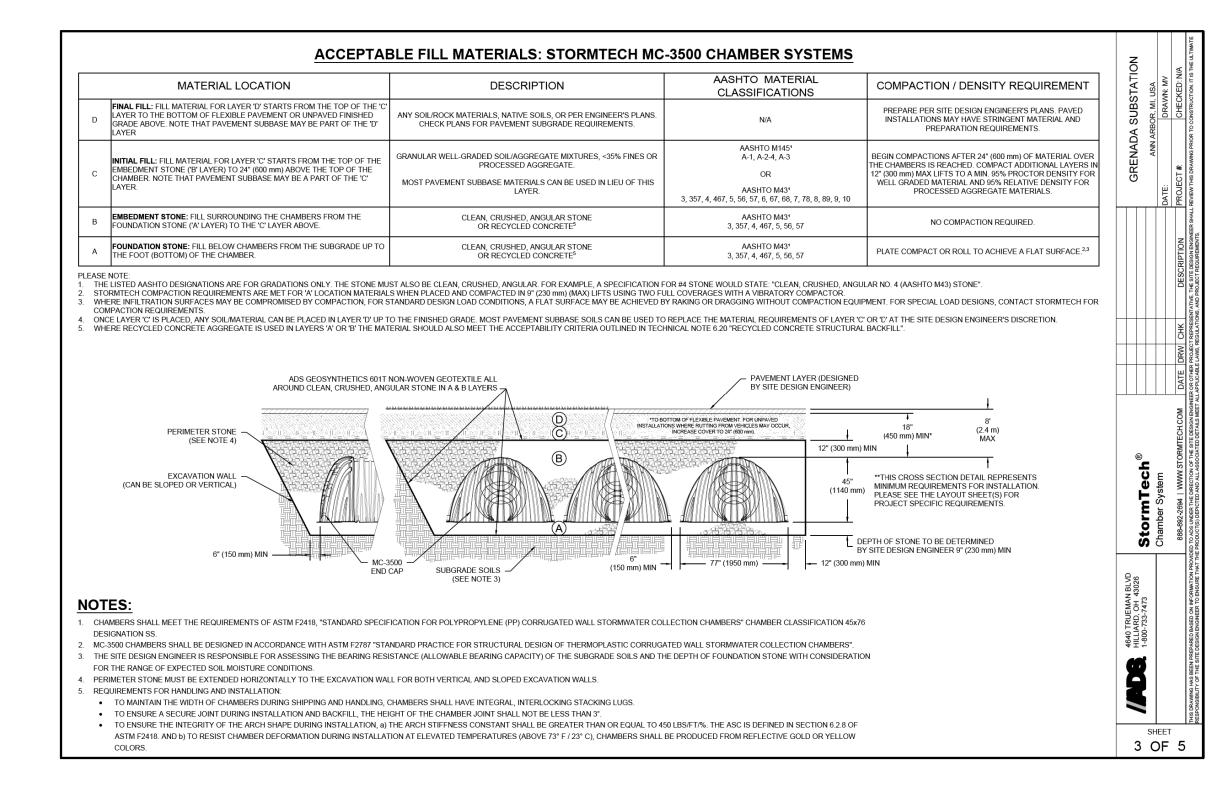
SECTION

TYPICAL PRECAST CATCH BASIN 7'-0" AND OVER NO SCALE

B

**REFERENCE DRAWINGS:** PRELIMINARY NOT FOR CONSTRUCTION NOTE TO FIELD DATE SUBMITTED FOR FOR ANY QUESTIONS ON THIS DESIGN, PLEASE CONTACT: SUBMITTED FOR DATE PROJECT ENGINEER ERIC M. MYRICK (313)235-6728 DATE SUBMITTED FOR DATE SUBMITTED FOR SUBMITTED FOR DATE SUBMITTED FOR DATE HINK SUBMITTED FOR DATE Review Know what's **below.** Call before you dig. SUBMITTED FOR APPROVALS DTE Energy DTE Electric Central Design/Standards ENGINEERING MADE BY TITLE DATE R.D. BREWER/BV 11/22/24 LAYOUT BY DATE STORMWATER DETAILS •E• WIACEK/BV 11/22/24 CHECKED BY DATE (2 OF 4) G.J. ESKOLA/BV 11/22/24 PROJECT DESIGN/ELECT DATE SERVICE CENTER SCALE LOCATION NAME PROJECT DESIGN/ACT DATE GRENADA SUBSTATION ANN ARBOR NONE APPROVED FOR ISSUE DATE DRAWING NUMBER WORK ORDER PROJECT DOCUMENT LIST 5M1329-3 69084198 GRENA-PDL-A-69084198

PROJECT INFORMATION         ENGINEERED PRODUCT         MANAGER         ADS SALES REP         PROJECT NO.	ADDS Niced Drainage Systems, Inc.
GREN	ADA SUBSTATION
A	NN ARBOR, MI, USA
MC-3500 STORMTECH CHAMBER SPECIFICATIONS	IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM
1. CHAMBERS SHALL BE STORMTECH MC-3500.	<ol> <li>STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.</li> </ol>
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.	2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUI
<ol> <li>CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CO WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.</li> <li>CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT V</li> </ol>	<ul> <li>STONESHOOTER LOCATED OFF THE CHAMBER BED.</li> <li>BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.</li> </ul>
IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.	4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHA THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FO	<ol> <li>JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.</li> </ol>
LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSI FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.	ERATION 6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH A "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION C LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM CO MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.	
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:	9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING
TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTE STACKING LUGS.     TO FUNCTION FOR THE PURPLY ATION AND PROVIDE LUCIT OF THE OUTPOINT OF THE PURPLY OF THE P	ENGINEER.
<ul> <li>TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NO THAN 3".</li> <li>TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL</li> </ul>	11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURF STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.
GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIS DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PR	
FROM REFLECTIVE GOLD OR YELLOW COLORS. 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE I	1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUI
<ul> <li>ONE TO HINDLAS THAT ARE APPROVED BY THE STILE DISIGNELIGINELINITE BE ALLOWED. VIOL NELLOWED AND ALLOWED TO THE STILE AND ALLOWED AND ALLO</li></ul>	E 2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED: • NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS. • NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCOR • WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE. • THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DE	
EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.	USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN A BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STA
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.	WARRANTY.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.	



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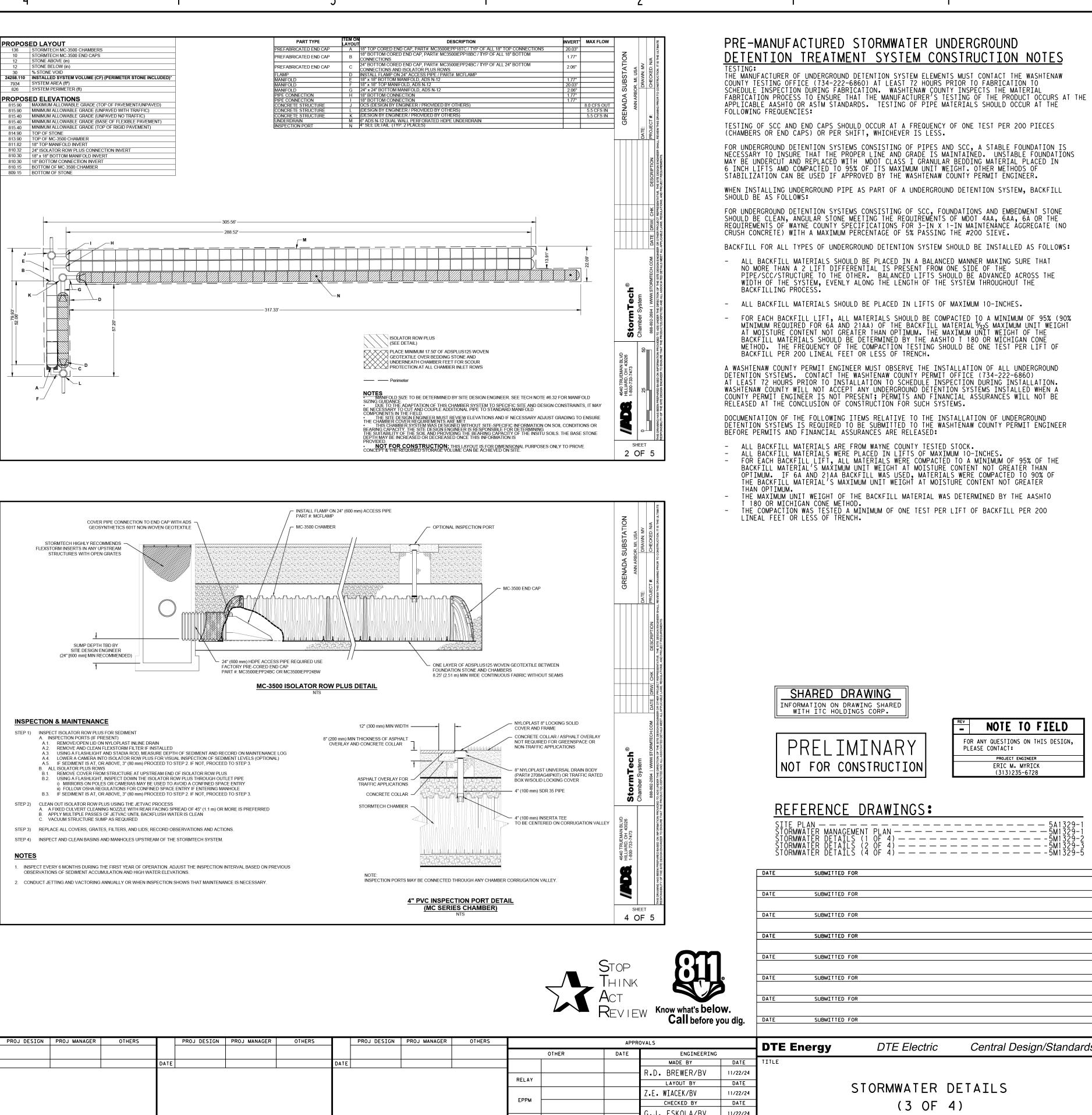
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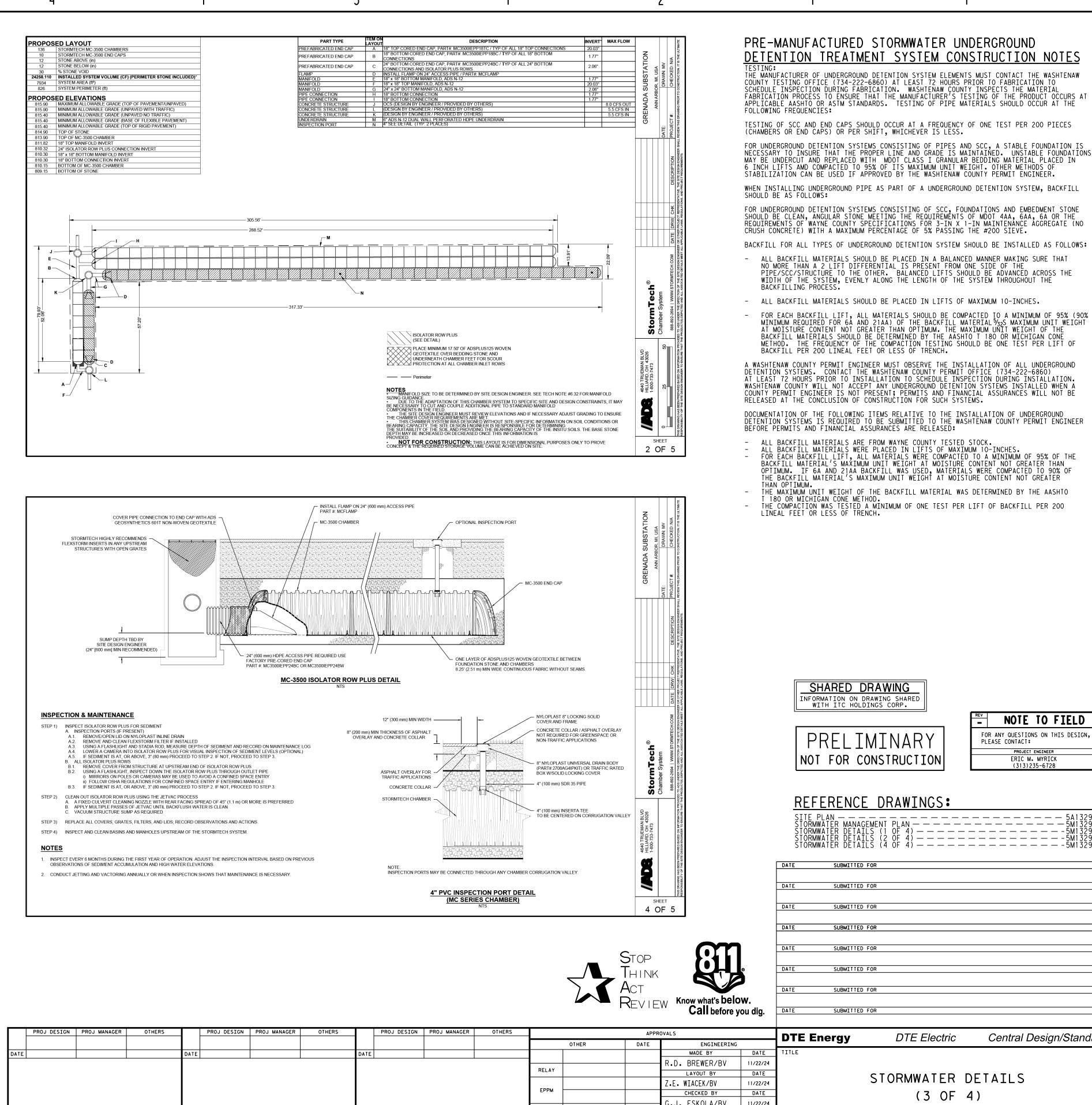
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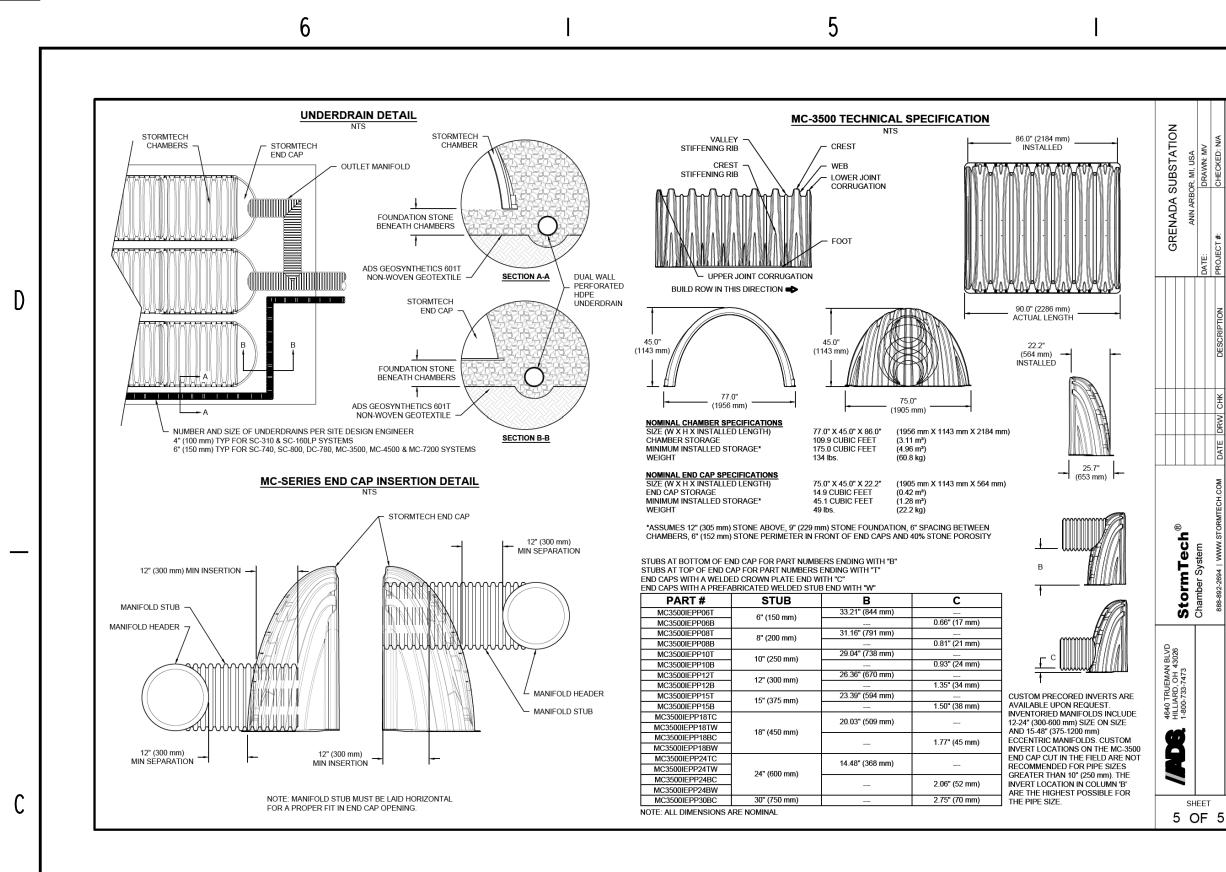


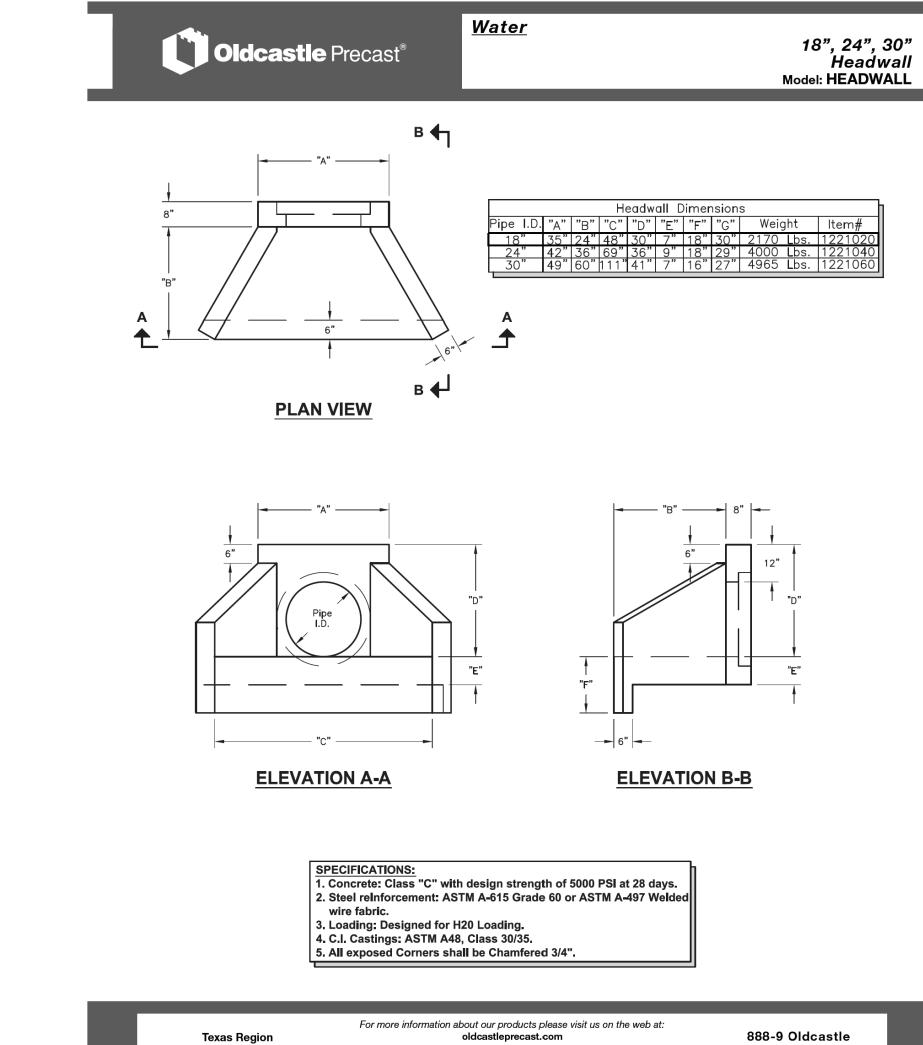




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888-9 Oldcastle (888-965-3227)

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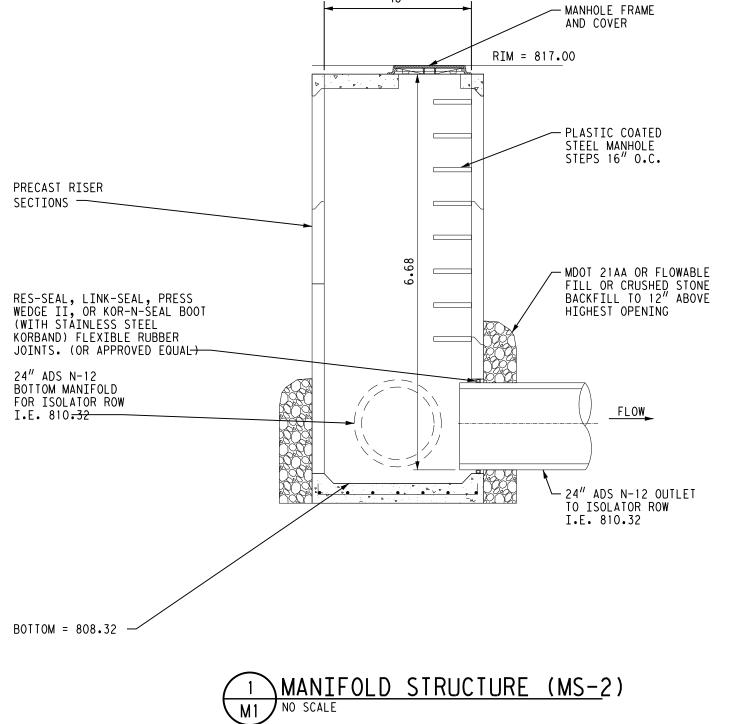
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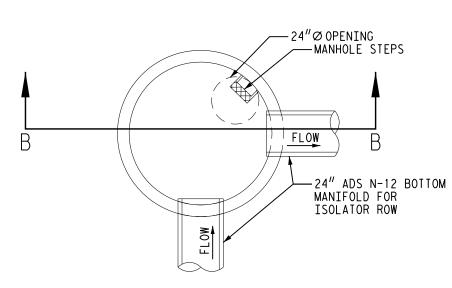
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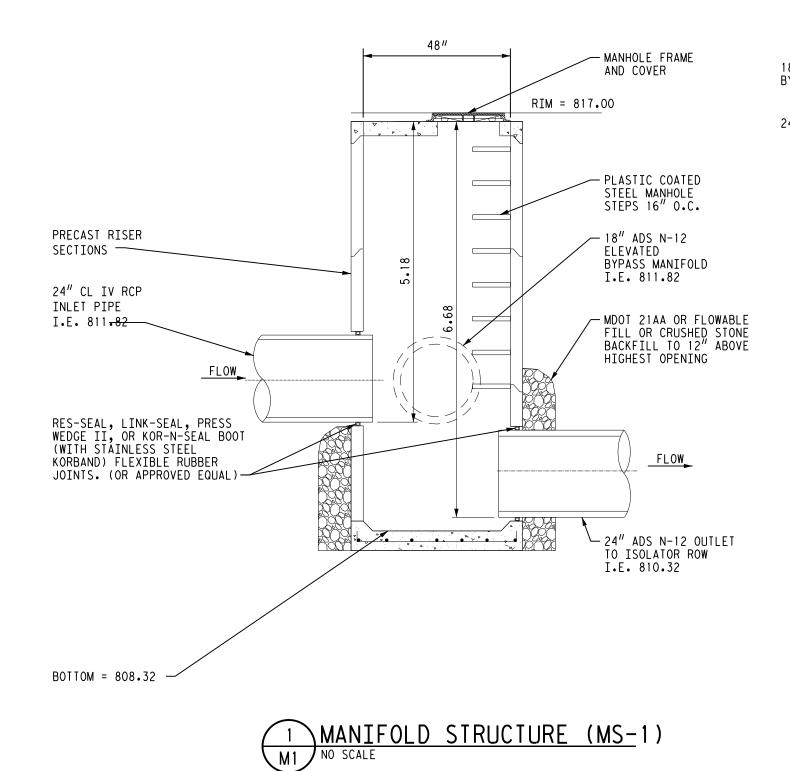


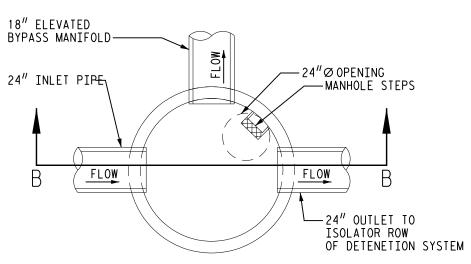
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PROJECT ENGINEER

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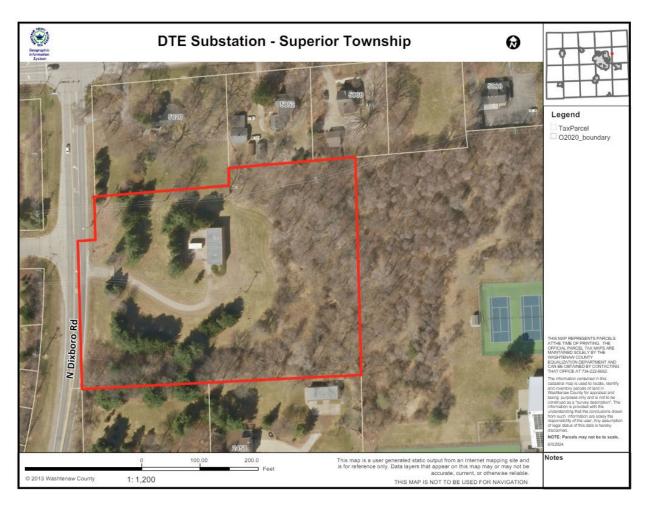
Date: February 14, 2025

## Conditional Use and Preliminary Site Plan Review For Superior Township, Michigan

Applicant:	DTE Electric Company (John Erb, DTE Real Estate and Terry Spryszak, DTE Corp Permits)
Project Name:	STPC 25-02 - DTE Grenada Substation Expansion
Plan Date:	November 22, 2024
Location:	East side of N. Dixboro Road, south of Plymouth Road J -10-18-261-012
Zoning:	R-4 (Single-Family Residential) Urban Residential District
Action Requested:	Conditional Use Permit / Preliminary Site Plan Approval
<b>Required Information:</b>	As noted in review.

### **PROJECT DESCRIPTION**

DTE Electric Company is seeking approval for a combined Conditional Use Permit and Preliminary Site Plan to expand an existing electrical substation on a 3.76 acres parcel (J -10-18-261-012) located on the east side of Dixboro Road, south of Plymouth Road (see Figure 1). The property is in an Urban Residential District zoned R-4 (Single-Family Residential). The proposed new Grenada Substation would be classified as a "Utility Transmission and Distribution Lines and Pipelines not in Existing Easements or Rights-of-Way" and requires a Conditional Use Permit approval in an R-4 (Urban Residential District).



### Figure 1 - Aerial Image of Subject Site

The applicant has provided the following use description:

THIS PROJECT IS TO CONSTRUCT AN ELECTRICAL SUBSTATION WHICH WILL IMPROVE POWER RELIABILITY IN THE SURROUNDING AREAS. WORK INCLUDES OVERHEAD SUPPORT STRUCTURES, LIGHTNING MASTS, TRANSFORMERS, CIRCUIT BREAKERS, POWER DISTRIBUTION CONTROL EQUIPMENT, ITC CONTROL HOUSE, ACCESS DRIVES WITH SECURITY FENCE AND LIGHTING. GRENADA SUBSTATION IS AN UN-OCCUPIED ELECTRIC SWITCHING/DISTRIBUTION SUBSTATION, AFTER CONSTRUCTION IS COMPLETE, AN OPERATOR WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH TO PERFORM ROUTINE MAINTENANCE AND DATA COLLECTION.

The Preliminary Site Plan submitted also includes a restroom facility, supported by a new septic and a pre-manufactured stormwater underground detention treatment system.

Electrical substations play a key part in effectively transmitting electricity through our national electricity grid. One of the main roles of substations are to convert electricity into different voltages. This is needed so the electricity can be transmitted throughout the country and then distributed throughout local neighborhoods and into our homes, businesses and buildings. Substations contain specialized equipment that allows the voltage of electricity to be transformed (or 'switched'). The voltage is

DTE - Grenada Substation February 14, 2025

stepped up or down through pieces of equipment called transformers. Substations are integral features within that grid and enable electricity to be transmitted at different voltages, securely and reliably.

There is an existing substation facility on this property that was constructed around 1990 and the applicant is proposing to improve and expand the facility to improve power reliability in the surrounding areas. The height of the transformer towers proposed was not specified on the plans; however, they appear to be less than the 50 foot high lightning masts shown on sheet 5A1329-10 (Substation Elevations & Section Views).

### PROCESS

The proposed Grenada Substation facility is considered to be a "Utility Transmission and Distribution Lines and Pipelines not in Existing Easements or Rights-of-Way" and is permitted on parcels zoned R-4 (Urban Residential District) with a Conditional Use Permit approval.

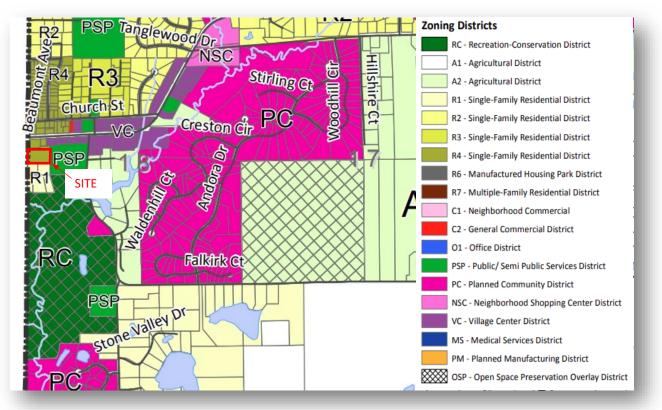
Article 11 (Conditional Uses) specifies the procedures and standards to be followed in granting such permits. A site plan meeting all the requirements of a Preliminary Site Plan as outlined under Article 10.0 (Site Plan Review) must accompany the Conditional Use Permit application. A public hearing shall be held on the petition and notice shall be given in accordance with Section 1.14 (Public Hearing Procedures).

### ZONING AND LAND USE

Zoning and existing land uses for the subject site and surrounding parcels are identified in the following table and shown on Figure 2.

DIRECTION	ZONING	LAND USE
North	R4 (Single-Family Residential)	Single Family Dwelling and Commercial
	VC (Village Center)	Office
South	R1 (Single-Family Residential)	Single Family Vacant and Rural
		Residential
East	PSP (Public/ Semi Public Services)	Huron Valley Tennis Club
West	PUD (Ann Arbor Township)	Dixboro Road and Flemming Creek
		Residential Subdivision

Sheet 5A1329-1 (Site Plan) includes zoning information for abutting properties. Abutting property near the northeast corner of the site is zoned Village Center (VC) and needs to be reflected on the plans.



### Figure 2 – Superior Township Zoning Map

*Items to be Addressed:* (1) *Correct Sheet 5A1329-1* (*Site Plan*) *to reflect that abutting property near the northeast corner of the site is zoned Village Center (VC).* 

### MASTER PLAN

The Future Land Use Map designates the subject site and the properties to the north, south, and east in the Dixboro Sub-Area (Figure 3). Properties west of the site and N Dixboro Road are in Ann Arbor Township and these parcels are designated as Residential 0.2-0.5 DU/acre (2 to 5-ac. lots) on the Township's Future Land Use Map.

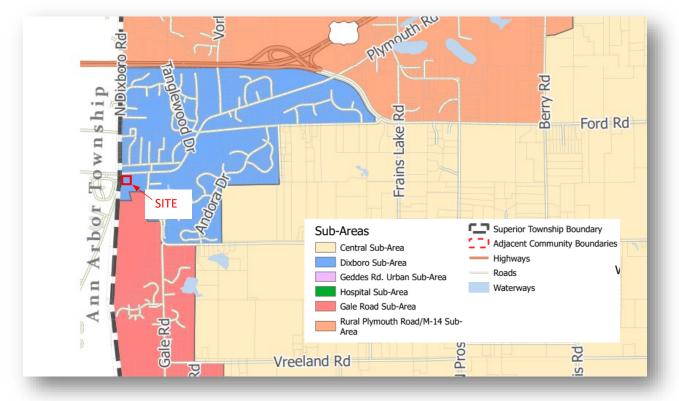
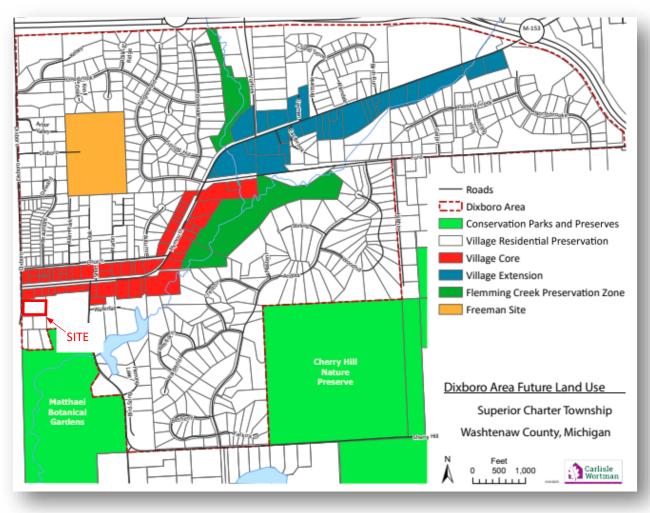


Figure 3 – Superior Township Future Land Use Map

The Dixboro Sub-Area has a more detailed Future Land Use Map (Figure 4). Areas within the Dixboro Sub-Area have been divided into five (5) place types based upon the context of existing build form, physical conditions, environmental conditions, land uses, development patterns, and community input, goals, and strategies. The subject site is included in the "Village Residential Preservation" place type which is intended for large- and small-lot single-family homes, open spaces and parks. It is the Township's desire to maintain and seek continuing reinvestment in the existing housing stock in the Village Residential Preservation area and new development must fit the character of the area. This being said, the intent of the Future Land Use Map is not to predetermine land uses or zoning on a specific parcel or at specific locations. Rather, individual properties or projects can be considered within the context of the location and surrounding properties, and not by a strict set of land use categories.

The existing DTE electrical substation facility on this parcel was constructed in the early-1990s and while the conditional use request to expand this facility does not specifically meet the intent of the Village Residential Preservation place type, expansion of the substation and associated improvements are intended to increase power reliability in the surrounding areas including the Dixboro Sub-Area. The property is located outside the area requiring Dixboro Design Review Board's review under Section 14.04 (Design Review).



### Figure 4 – Dixboro Sub-Area Future Land Use Map

Items to be Addressed: None

### NATURAL RESOURCES

The property is currently partially developed and there are no "significant" natural resources including woodlands, steep slopes, and wetlands on site. The property is located outside the 100 year floodplain. The applicant has designed the facility to maintain existing natural features on site to the fullest extent possible.

**Watercourses and Wetlands:** Sheet 5A1329-1 (Site Plan) states there are no regulated or unregulated wetlands within the subject parcel boundary. Sheet 5A1329-4 (Existing Conditions Plan) supports this claim and a note on sheet 5A1329-8 (Soil Erosion and Sediment Control Plan) states that based on the EGLE wetland inventory the nearest water body is associated with Flemming Creek approximately 300 ft south of the site boundaries.

**Slopes:** No development shall be permitted in areas where the soil is highly erodible, or in any area with existing steep slopes of twenty five percent (25%) or greater.

Sheet 5A1329-4 shows existing conditions including topographic elevations. Notes on sheet 5M1329-1 (Stormwater Management) indicate that slopes range from 1.25% to 33.25% with elevations ranging between 810 and 826. The natural drainage path is from the northwest corner to the southeast corner of the property. During construction of the new substation pad, approximately 3.6 acres of the 3.76 acre parcel will be disturbed and re-graded to an elevation pf 817 feet. As shown on sheet 5A1329-1, the wooded area with steep slopes towards the northeast corner of the parcel will be re-graded with 3:1 slide slopes (33%) and this area will remain undeveloped. Sheets 5A1329-8 and 5A1329-9 provide details on soil erosion and sediment control measures proposed during and after construction. The applicant needs to provide comment on how the integrity and profile of areas with slopes greater than 25% and areas with slopes of at least twelve percent (12%) but less than twenty five percent (25%) shall be maintained.

**Floodplain:** As noted on sheet 5A1329-4 (Existing Conditions Plan), the site is within Zone "X" determined to be outside the 0.2% annual chance flood plain per Flood Insurance Map No 26161C0266E (effective April 3, 2012).

**Woodlands and Tree Preservation:** Sheet 5A1329-4 (Existing Conditions Plan) including limits of wooded areas on the subject parcel and sheet 5A1329-5 (Site Preparation and Demolition Plan) includes an inventory of existing trees on site as well as those proposed to be removed and preserved with details on tree protection measures. Tree replacement calculations are provided on sheet 5A1329-2 (Landscape Plan). The applicant proposes to pay up to 465 trees replacement equivalent into the tree fund. We understand that the required additional 465 trees will not fit, there are opportunities to put additional replacement trees on site including in the large area south of the access drive, along Dixboro road, and along the eastern property line.

Based on adding additional trees on to the site, the applicant needs to provide a cost estimate for the remaining trees that cannot be installed on site and that are required to be mitigated. The estimate shall be based upon the current retail market value for the tree replacement. Once an amount is agreed upon with the Township, the applicant shall deposit into a tree-planting fund maintained by the Township to be utilized for planting, maintenance, and preservation of trees and woodland areas in the Township.

**Items to be Addressed:** (1) Provide comment on how the integrity and profile of areas with slopes greater than 25% and areas with slopes of at least twelve percent (12%) but less than twenty five percent (25%) shall be maintained; (2) Add additional replacement trees on site; and (3). Provide a cost estimate for the remaining replacement trees that cannot be installed on site and that are required to be mitigated.

### SITE ARRANGEMENT

As described on the cover sheet under "General Notes", during construction, approximately 3.6 acres of land will be disturbed and, after expansion, the substation structures and buildings will be constructed on a gravel pad that totals 1.6 acres. A fence will be installed around the pad and areas outside the pad will largely remain pervious open space and enhanced with new landscape, including a berm along the northeast corner of the site.

Sheets 5A1329-1 and 5A1329-6 have notes that reference a 7.0 ft high chain link fence with 6 strands of barbed wire on 'V' arms and calls out "Detail 5 on drawing 5A1329-7". Detail 5 shows aspects of the fence, but it is a "Yard Edge Detail" and calls out specification 390 rev "Y". Furthermore, general note #11 on sheet 5A1329-6 refers to another project construction specification for chain link fences and gates (e.g., 323100). These references need to be corrected, and the fence detail added to the plans.

Fencing and screening are important design considerations for the Planning Commission to contemplate for this conditional use. The towers and ground equipment enclosures must be secured by fencing and Section 6.01A.2.b. permits barbed wire fences to surround public utility facilities and essential service uses in any zoning district. Per Section 6.01B.4. fences on public lands and enclosing public utilities are not to exceed a maximum of eight (8) feet in height, unless the Zoning Inspector determines that a higher fence is necessary for safety reasons. The applicant needs to confirm the total height of the fence with the barbed wire extension. Section 6.01B.4.b. also states, "Fences that enclose public utility and essential service facilities shall not be permitted in a required side yard in the Urban Residential Districts, but may be permitted in any required yard of any other zoning district." The substation is zoned R-4 (Urban Residential) and the minimum required side yard setback is 6 Feet (16 Feet Total). The proposed fence would be installed around the pad area and outside the side yard setback.

The cover sheet lists the following improvements under "Structure Summary":

- RESTROOM: AREA = 480 SFT /HEIGHT = 8 FT
- ITC CONTROL HOUSE: AREA = 1,318 SFT /HEIGHT = 12 FT
- DTE PDC EQUIPMENT ENCLOSURE: AREA = 690 SFT /HEIGHT = 12 FT
- FUTURE PDC EQUIPMENT ENCLOSURES: AREA = 3 AT 690 = 2,070 SFT / HEIGHT = 12 FT
- LOT COVERAGE = 1.6 AC/3.6 AC = 44%
- STRUCTURE COUNT ONLY INCLUDES RESTROOM AND CONTROL ENCLOSURES AND DOES NOT INCLUDE EXTERIOR ELECTRICAL EQUIPMENT.

The "Project Description" provided on the cover sheets needs to reference the restroom facility, supported by a well and septic and a pre-manufactured stormwater underground detention treatment system. We ask for additional details regarding the need for a restroom, if the site is only visited once a month. If the restroom were to be removed, the applicant could remove the septic field, which would provide more area for tree planting.

Details of "exterior electrical equipment" referenced in the "Structure Summary" note on the cover sheet should be added. For example, height of lightning mast, bus support structures, and masonry transformer enclosures.

As shown in the table below, the Grenada Substation Expansion project is compliant with the majority of dimensional standards set forth in Section 3.101 of the Superior Township Zoning Ordinance. This being said, the maximum allowable Ground Floor Coverage (GFC) and Floor Area Ratio (FAR) needs to be confirmed.

STANDARD	REQUIRED/PERMITTED	PROVIDED	COMPLIANCE
Minimum Lot Size	7,200 Sq Ft (0.16 Acres)	3.76 Acres	Compliant
Minimum Lot Width	60 Feet	324 Feet	Compliant

Max. Building Height	35 feet / 2.5 Stories	12 feet	Compliant
Front Setback	25 Feet	~25 Feet	Compliant
Side Setback	6 Feet (16 Feet Total)	~16 Feet	Compliant
Rear Setback	35 Feet	~35 Feet	Compliant
Max. Ground Floor	25%	Unknown	Unknown
Coverage (GFC)			
Max Floor Area Ratio	0.40	Unknown	Unknown
(FAR)			

**Items to be Addressed:** (1) Add note to plans that describe project phasing if any; (2) Provide more descriptive labels for PDC equipment enclosures on Sheet 5A1329-1 (Site Plan) it is not clear how many are proposed in total; (3) Clarify and correct, if necessary, the Lot Coverage calculation included on cover sheet under "Structure Summary" and under "Site Information" on sheet 5A1329-1; (4) Add details for "exterior electrical equipment" on cover sheet under "Structure Summary" including the height of all structures; (5) Calculate the Ground Floor Coverage (GFC) and Floor Area Ratio (FAR) and add notes to cover sheet; (6) Add fence details to the plans; and (7) Provide details on the need for the restroom.

### **OPERATIONS**

The existing substation was constructed in the early-1990s and includes a 32 foot high transformer enclosure building. When the expansion and improvements are complete and the new Grenada Substation will operate as an un-occupied electric switching/distribution substation which includes 120-40kV transformers. Once the new substation is energized, the existing substation infrastructure will be demolished. The applicant has stated that the new substation will be visited by an operator approximately once a month to perform routine maintenance and data collection and that the substation will generate less than 100 peak hour directional trips. Control and monitoring equipment will be inside a 1,318 sq. ft. "ITC control building". There will be no public sewer or water at this site. A new septic system and well will be established to support a 480 sq. ft. restroom on site. Sheet 5A1329-11 includes restroom layout and elevations and sheet 5A1329-12 includes the septic design.

Dixboro Road will remain open during underground utility construction and there will be minimal impact to traffic. General Notes on sheet 5A1329-1 (Site Plan) indicates that the facility will not be used for outdoor storage of any additional material other than proposed electrical equipment on the plans and that there will be no trash receptacles on site and no trash will be left on site overnight. General Notes on the cover sheet indicates that "Site transformer may emit low level noise that will be attenuated by having transformers setback 120 feet from adjacent property lines". The Planning Commission should ask the applicant to clarify what noise or other nuisances may result from the use.

**Items to be Addressed:** (1) Provide the Planning Commission with details on what nuisances, other than noise, may potentially result from the use; (2) Limit use to conditions of approval as noted in recommendation.

### PARKING AND LOADING

The facility is largely unmanned and there are no parking or loading requirements.

### Items to be Addressed: None

### SITE ACCESS AND CIRCULATION

The Grenada Substation will be accessed from the existing driveway curb cut off of N Dixboro Road. A new concrete drive approach will be constructed, and the facility improvements will be accessed by a 20-foot wide crushed stone service driveway that circles the substation pad. The proposed layout is shown on sheet 5A1329-6. The concrete driveway opening details are included on both sheets 5A1329-6 and 5A1329-7 and the access drive details are included on sheet 5A1329-7.

A detailed discussion of proposed fencing is included above under SITE ARRANGEMENT. There is motorized slide gate and a pedestrian gate with details provided on sheet 5A1329-7. The slide gate will be installed at the bottom of the driveway approximately 150 feet from N Dixboro Road. The movement of vehicular and pedestrian traffic within the site will be safe and convenient.

### Items to be Addressed: None.

### LANDSCAPING

The applicant is preserving existing mature on-site vegetation and natural landforms to the maximum extent feasible and has planned to provide additional landscaping along the north, south, and west property boundaries as shown on sheet 5A1329-2 (Landscape Plan). The Landscape Plan provided addresses standards of subsection 14.05F (Woodlands and Tree Preservation) and includes an inventory of existing trees on site as well as those proposed to be removed and preserved with details on tree protection measures; however, it does not address Section 14.10D (Methods of Screening). The methods of screening are described under Section 14.10D and include one (1) or more of the following:

- 1) Greenbelt buffer;
- 2) Hedgerow;
- 3) Fence;
- 4) Berm;
- 5) Evergreen screen;
- 6) Masonry wall

The screening method should be suited to the existing conditions and are subject to Planning Commission approval. It recommended that the proposed Grenada Substation should at minimum have a ten (10) foot wide greenbelt buffer that includes a mixture of deciduous shade trees, ornamental trees, evergreen trees, and shrubs planted at a concentration of one (1) tree and three (3) shrubs per 15 linear feet of greenbelt length around the entire property.

The Planning Commission may require additional plantings to achieve the screening objectives of Section 14.10D; however, based on a review of substation elevations and section views shown on sheet 5A1329-10, the substation should be adequately screened after landscape reaches full maturity. Furthermore, the substation pad will be at 817 finished grade which is almost 10 feet below the grade of Dixboro Road and there is a natural berm towards the northeast corner of the property.

# *Items to be Addressed:* (1) Applicant needs to include greenbelt buffer and details on the Landscape Plan.

### LIGHTING

No lighting plan has been provided. According to Section 6.13, any operation or activity which produces glare shall be conducted so that direct and indirect illumination from the source of light does not exceed one-half (1/2) footcandle when measured at any point along the property line of the site on which the operation is located if lighting is to be proposed. Item #7 under "General Notes" on sheet 5A1329-1 (Site Plan) describes exterior substation lighting as consisting of LED wallpack lights mounted on the PDC and restroom walls near each doorway. Lithonia D-Series DSX1 LED light fixtures mounted on square straight steel poles for general site lighting, lights are normally off except during emergency switching or maintenance operations.

*Items to be Addressed:* (1) *The applicant needs to provide a lighting plan in conformance with Section* 6.13.

### FLOOR PLAN AND ELEVATIONS

Elevations, and dimensions for the ITC Control House and PDC Equipment Enclosures were not include with the plans submitted. The application also include details for a wall; however, we cannot tell from the plan set where a wall is proposed.

*Items to be Addressed:* (1) Include elevations, and dimensions for the ITC Control House and PDC Equipment Enclosures; and (2) provide wall location on the site plan

### SUPPLEMENTAL REGULATIONS

Section 5.604 sets forth additional requirements for Utility Transmission and Distribution Lines. Electricity transmission and distribution lines, gas and oil pipelines, and other utility structures, lines, and pipelines shall be subject to the following:

- 1) Storage of materials, equipment, vehicles, or supplies shall be prohibited on the premises, except as required during periods of maintenance and servicing.
- 2) No personnel shall be quartered or employed on the premises.
- 3) Structures or buildings shall be located, designed, constructed, and landscaped in conformance to the character of the surrounding area and zoning district.

With the exception of landscaping, the plans comply with the supplemental regulations set forth under Section 5.604 (Utility Transmission and Distribution Lines). Provided that the applicant agrees to, and Planning Commission requires the following conditions, we find that the use is appropriate for the site and meets the required standards set forth in section 5.604.

### CONDITIONAL USE STANDARDS

The Planning Commission has the authority to approve a Conditional Use Permit if the proposed use complies with Section 11.05.C (Standards for Conditional Use Permit Approval) as follows:

a) The proposed use will be harmonious, and in accordance with the

objectives, intent, and purposes of this Ordinance;

- *b)* The proposed use will be compatible with the natural environment and existing and future land uses in the vicinity;
- c) The proposed use will be compatible with the Growth Management Plan;
- d) The proposed use 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 any such services;
- *e)* The proposed use will not be detrimental, hazardous, or disturbing to existing or future neighboring uses, persons, property, or the public welfare; and
- *f)* The proposed use will not create additional requirements at public cost for public facilities and services that will be detrimental to the economic welfare of the community.
- g) The proposed use complies with all applicable standards of this Ordinance, including Article 5.0 (Use Standards).
- *h)* The proposed use complies with all applicable regulations of federal, state, regional, and county agencies with jurisdiction.

The Grenada Substation conditional use as a "Utility Transmission and Distribution Lines and Pipelines not in Existing Easements or Rights-of-Way" in an R-4 (Urban Residential District) meets Standards for Conditional Use Permit Approval. There is an existing electrical substation facility on this parcel and while the conditional use request to expand this facility does not specifically meet the intent of the Village Residential Preservation place type, expansion of the substation and associated improvements are intended to increase power reliability in the surrounding areas including the Dixboro Sub-Area. With additional greenbelt buffers added for screening, the Grenada Substation Expansion project will not negatively impact the natural environment and existing and future land uses in the vicinity and the proposed use will not be detrimental, hazardous, or disturbing to existing or future neighboring uses, persons, property, or the public welfare.

### CONDITIONS

In granting a Conditional Use Permit, the Planning Commission may impose conditions that it deems necessary to ensure that:

- a) Public services and facilities affected by a proposed conditional use will be capable of accommodating increased service and facility loads caused by the proposed conditional use;
- *b)* The natural environment will be protected and natural resources and energy conserved;
- c) The proposed use is compatible with adjacent land uses; and
- d) The proposed use promotes the use of land in a socially and economically desirable manner.

Conditions imposed shall meet the following requirements:

- a) The conditions shall be designed to protect natural resources, the health, safety, and welfare and the social and economic well being of those who will use the proposed land use or activity, residents and landowners immediately adjacent to the proposed conditional use, and the community as a whole.
- *b)* The conditions shall be related to the valid exercise of the police power of the Township, and purposes that are affected by the proposed conditional use.
- c) The conditions imposed shall be necessary to meet the intent and purpose of the Ordinance, shall be related to the standards established in the Ordinance for conditional uses, and shall be necessary to ensure compliance with those standards.

### RECOMMENDATION

Overall, we strongly support the expansion of the Grenda DTE Substation as it will improve service and reliability in the area. However, there are a number of items that should be addressed prior to Planning Commission approval:

- 1) Clarification on need for restroom and ability to remove it to all for more onsite tree replacement planting
- 2) Ability to plant additional onsite tree replacement
- 3) Fence details
- 4) Additional greenbelt plantings
- 5) Overall mitigation on adjacent properties
- 6) Steep slope impact
- 7) Lighting plan

We recommend that the Planning Commission hold a public hearing, and consider public testimony; however, postpone action until the aforementioned items have been addressed.

Ben R. Cal

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

·M

CARLISLE/WORTMAN ASSOC., INC. Diane Mulville-Friel, AICP Senior Associate



February 7, 2025

CHARTER TOWNSHIP OF SUPERIOR

3040 N. Prospect Road Ypsilanti, MI 48198

Attention: Angela Robinson, Township Clerk

Regarding: DTE Grenada Substation Preliminary Site Plan Review – Review No. 1 OHM Job No. 0140-24-1010

Dear Ms. Robinson,

On behalf of the Township, we have reviewed the Preliminary Site Plan submittal for the above referenced project, as provided to the Township by the Applicant on January 27, 2025. In our opinion, this plan is ready for consideration by the Planning Commission at their regular meeting in February regarding Preliminary Site Plan action. We offer the following comments to the Planning Commission related to the site/civil engineering aspects of the Preliminary Site Plan that can either be addressed by the Applicant prior to the Planning Commission granting preliminary site plan approval, or in our opinion these items can be made conditional to Preliminary Site Plan Approval and addressed by the Applicant during the Final Site Plan review stage.

- 1. Site plans should bear the professional seals of an engineer and land surveyor licensed in the State of Michigan.
- 2. On Sheet 5A1329-2, Landscape Note 6 mentions an "ITC 90'-0" Transmission Easement east of the substation" that does not appear to be shown on the plans. The location and limits of this easement should be indicated on the plans.
- 3. Plans should include the initial plan date and any revision date(s).

### Permits and Other Agency Approvals

- 4. The individual well and septic systems for this site must meet the requirements of the Washtenaw County Health Department's Environmental Health Division. A copy of their approval letter will be required or must be reasonably assured prior to presentation of the Final Site Plan to the Planning Commission.
- 5. Work proposed in the Dixboro Road Right-of-way (ROW) must meet the requirements of the Washtenaw County Road Commission (WCRC) as they have jurisdiction within the public ROW of Dixboro Rd. The Applicant should coordinate with WCRC to meet their requirements and obtain any necessary permits. A copy of their approval letter will be required or must be reasonably assured prior to presentation of the Final Site Plan to the Planning Commission.



- 6. The stormwater management design must meet Washtenaw County Water Resources Commissioner (WCWRC) Standards. The Applicant should coordinate with WCWRC to facilitate review and obtain necessary approvals. A copy of their approval letter will be required prior to presentation of the Final Site Plan to the Planning Commission.
- 7. Soil erosion and sedimentation control (SESC) measures for the project must meet the requirements of WCWRC and the Applicant should coordinate with WCWRC regarding the review process. A copy of their approval letter will be required or must be reasonably assured prior to presentation of the Final Site Plan to the Planning Commission.

If you have any questions regarding our review, please do not hesitate to contact me at (734) 466-4585, or George Tsakoff at (734) 466-4439.

Sincerely, OHM Advisors

Cresson Slotten, PE Senior Project Manager

cc: Emily Dabish Yahkind, Township Supervisor (via email) Bill Balmes, CBO, Building Department (via email) Diane Mulville-Friel, CWA (via email) Ben Carlisle, CWA, Twp Planner (via email) George Tsakoff, OHM Claire Martin, OHM file

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## CHARTER TOWNSHIP OF SUPERIOR FIRE DEPARTMENT

FIRE MARSHAL DIVISION

7999 Ford Rd, Ypsilanti, MI 48198

February 5, 2025

### **Diane Mulville-Friel**

Senior Associate Planner, AICP Phone: 734-662-2200 | Mobile: 727-422-0380 117 N. 1st Street, Suite 70, Ann Arbor, MI 48104

Preliminary (non-residential) Site Plan Review #1				
DTE Grenada Substation				
3270 N. Dixboro Rd., Ann Arbor, MI 48105				
10/19/2021				
5A1329-1 thru 12				
IFC 2024				
Black & Veatch LTD. Of Michigan				
3550 Green Court, Ann Arbor, MI 48105				

### Status of Review

Status of review: Approved as Submitted

### Site Coverage - Access

Comments: Meets IFC 2024

Sincerely,

Dan Kimball, Fire Marshal Charter Township of Superior Fire Department CFPS, CFI II, CFPE