

**Addendum No. 001**

January 10, 2022

ADDENDUM TO PLANS AND SPECIFICATIONS FOR:

**ODOT - Eaton Outpost**

**DOT-200023**

Prepared For: **Ohio Department of Transportation / Ohio Facilities Construction Commission**

Prepared **Jerome M. Scott Architects Inc.**

By: 1020 Goodale Boulevard  
Columbus, Ohio 43212  
Tel: 614.225.9535

**Veregy**

855 Grandview Ave.  
Columbus, OH 43215  
Tel: 614.443.1178

**Paul J. Ford & Co.**

250 E. Broad St. Suite 600  
Columbus, Ohio 43215  
Tel: 614.221.6679

**Sands Decker CPS**

1495 Old Henderson Rd.  
Columbus, OH 43220  
Tel: 614.459.6987

This Addendum is included in the work as noted in the Notice to Bidders and Form of Proposal. Each item refers to drawing sheet numbers, specification numbers, or general comments.

To All Bidders: This addendum supplements and amends the original bid documents dated December 17, 2021 and shall be taken into account in preparing proposals and shall become a part of the contract documents.

Receipt of this Addendum shall be acknowledged by inserting its number and date in the space provided on the Bid Form.

This Addendum consists of **32 pages (25 - 8.5x11 sheets and 7- 24x36 sheets)** included herein.

**GENERAL:**

Attached is a copy of the pre-bid meeting sign-in sheet.

Attached is a copy of the pre-bid meeting Agenda/Minutes

**PROCUREMENT/CONTRACTING/SPECIFICATIONS:**

**Section 00 52 00 – Agreement Form (Revised Section Attached)**

Revise Article 3.1 to note Substantial Completion as Milestone M2 and Completion of Punch List Items as Milestone M3.

**Section 01 32 16 – Construction Progress Schedule (Revised Section Attached)**

Revise Article 3.02-K-2 to include Milestone M2 (substantial completion) and revise previous Milestone M2 to Milestone M3 (punch list completion).



**Section 09 67 00 – Epoxy Flooring Systems**

Amend specification to include Tennant Coatings as an approved manufacturer. Add item 2.1-A-3 to read as follows:

*3. Tennant Coatings*

**Section 11 11 00 – Vehicle Service Equipment**

Revise water reel hose length to 65' rather than 100'. Item 2.3-C-1-b to read as follows:

*b. 1" Non-Collapsible Braided Synthetic Hose (65' length)*

**Section 22 15 19 – General Service Packaged Air Compressors and Receivers (Revised Section Attached)**

Revise specification as follows:

- Revise 2.01-A to 3-phase motor.
- Delete item 3.03-B

**Section 26 05 19 – Low-Voltage Electrical Power Conductors and Cables**

Amend specification to include Encore as an approved manufacturer. Revise items 1.05-A and 2.02-B to read as follows:

1.05 ACCEPTABLE MANUFACTURERS

A. Service Wire, Cerrowire, Southwire, Aetna, AIW, *Encore* or Essex/Superior.

2.02 FLEXIBLE WIRING SYSTEM

B. Acceptable Manufacturers: Lithonia "Reloc" or approved equal by America Cable Systems, Metalux/Cooper, Hubbell, *Encore* or Walkerflex.

**DRAWINGS:****Revise Sheet C200 – SITE DEMOLITION PLAN (Revised Sheet Attached)**

Revise Demolition Keynote #10 as shown.

**Revise Sheet C300 – SITE DIMENSION PLAN (Revised Sheet Attached)**

Revise Site Keynote #6 as shown.

Add Site Keynote #20 as shown.

Revise holding tank location dimensions as shown.

**Revise Sheet C400 – SITE GRADING & STORM WATER PLAN (Revised Sheet Attached)**

Revise basin bottom elevation and add contour elevations as shown.

**Revise Sheet C500 – GENERAL NOTES & SITE DETAILS (Revised Sheet Attached)**

Replace plastic holding tank detail w/ concrete tank detail as shown.

Add elevations to Overflow Wier Detail as shown,

Revise Detail 6 as shown.



**Revise Sheet C501 – SITE DETAILS (Revised Sheet Attached)**

Add Outlet Control Orifice Plate Detail 7 as shown.

**Revise Sheet ESU – ELECTRICAL SITE UTILITY PLAN (Revised Sheet Attached)**

Add Plan Note S1.

Add Plan Note S5.

**Revise Sheet E500 – SINGLE LINE DIAGRAM (Revised Sheet Attached)**

Revise single line diagram as shown.

**BIDDER QUESTIONS AND ANSWERS:**

**Q1:** *“I wanted to confirm that all of the bollards are to have HDPE covers on them. The covers go over standard steel bollards, right?”*

A. All bollards on the job are to receive HDPE covers. All bollards are to be schedule 40 galvanized, concrete filled, with HDPE covers.

**Q2:** *“Can you identify the items that the Owner will salvage and remove from the existing Truck Storage building?”*

A. Refer to specification 02 41 16, Item 1.7-C-1 for a list of items.

**Q3:** *“Will the existing overhead doors be salvaged by the Owner?”*

A. Yes. Refer to specification 02 41 16, Item 1.7-C-1.

**Q4:** *“Are existing plans available for the building that is to be demolished?”*

A. No. Existing building drawings are unavailable.

**Q5:** *“Are there any soil borings available?”*

A. Yes. Refer to specification 00 31 32.

**Q6:** *“09 77 00 – 2.2 Interlocking PVC Panels: 2.2.A requires that the panel mount directly to the studs. Does the requirement also apply to the roof trusses for the ceiling panels? It appears that the max length for the panel is 20 ft, thus requiring a joint cover detail. Is this acceptable?”*

A. Yes. It is understood that joints will be required to span the ceiling. Manufacturer’s standard joint details and trims should be used.

**Q7:** *“Are wood trusses the only delegated design item?”*

A. Yes.

**END OF ADDENDUM NO. 001**



**Pre-Bid Meeting Minutes**

Project No. DOT-200023

Project Name: Eaton Outpost

1-05-2022 ▪ 12:00 PM ▪ Virtual (MS Teams)

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**A. INTRODUCTIONS****B. SIGN-IN / ATTENDEE VERIFICATION****C. PROJECT DESCRIPTION & SCOPE OF WORK**

- Demolition of existing one-story outpost building.
- New 9400 SF outpost building including 7-bay truck storage, wash bay, and accessory office space.
  - o Construction is slab on grade w/ 4' high cast-in-place concrete wainscot/knee wall, wood framed, metal wall panels/ metal roof
- Associated site work including utilities, storm water management, paving, and fencing.

**D. DELIVERY METHOD**

- *General Contracting*

**E. ALTERNATES, ALLOWANCES AND UNIT PRICES**

- *Refer to Section 01 21 00 Allowances*
  - o *Allowance A-1 (NWOSS Security) - \$19,500*
    - Please review the attached NWOSS proposal which specifically outlines what they will provide. Be sure to note items that are not included in their scope to ensure they are captured in your bid.
  - o *Allowance A-2 (Electrical Aid to Construction) - \$60,000*
    - Covers cost for electrical company to deliver 3-phase power to the site. Fees paid to the utility company only. Does not cover any scope performed by the contractor.
- *Refer to Section 01 32 00 Alternates*
  - o *Alternate 1 – Wash Bay Overhead Door*
    - Refer to specification 08 36 14 Alt – High Speed Rolling Door – Wash Bay only

**F. WORK OR SERVICES BY OTHERS**

- *Special inspections – Refer to Specification Section 01 40 00 “Quality Control Services” and Sheet S-001*
  - o Contracted by the A/E as outlined in the specifications. Only inspections explicitly assigned to the A/E in the specs will be covered (soil compaction, concrete reinforcing and compressive strength, etc.). All other testing and inspections are the responsibility of the contractor.



- Note that any retesting due to unsatisfactory results or non-compliance with the documents will be the responsibility of the Contractor.
- *MultiVista Construction Photography*
  - Contracted by the A/E.
  - On site twice a month and at other times deemed appropriate by the A/E.
  - They should have no impact on construction activity.

#### **G. QUESTIONS DURING BID**

- *RFI & substitution requests shall be submitted in writing to [dboyne@jeromescott-architects.com](mailto:dboyne@jeromescott-architects.com)*
  - *Substitution requests must be submitted no later than 5:00 pm 1/11/2022*
    - *No substitution will be allowed to the items specified unless the proposed item has been submitted for approval and has been noted in an Addendum. Bids are to reflect the use of items as specified or “approved” equals only.*
    - *Bidding Contractor must submit a signed Product Approval Request Form (Specification Section 01 60 00.1) for substitution to be considered.*
  - *RFI’s must be submitted no later than 5:00 pm 1/14/2022*

#### **H. BID ADDENDUM**

- *Addendums will be issued no later than 1/18/2022 at 2:00 PM.*
  - *Posted on Bid Express only*
    - *Recommend checking after 1/18 to ensure you have received all Addenda.*
- *Acknowledge receipt on Bid Form*

#### **I. BID OPENING**

- *Bids will open 1/21/2022 at 2:00 PM*
  - Results will be posted on Bid Express same day
  - If you haven’t used Bid Express previously, recommend logging in in advance to make sure electronic signatures, etc. are set up to avoid any issues when submitting your bid. May take up to 7 days to complete signature verification process.

#### **J. COMPLETION TIME & PROJECT SCHEDULE**

- *Note: Contracting Authority has 60 days from Bid Opening to award the Contract and execute the Agreement*
- *Contract milestones include:*
  - *Milestone M1 (Owner Milestone) – Site turnover*
    - *April 01, 2022*
      - *Contractor will be able to mobilize trailer and coordinate laydown space with Owner prior to this date if requested.*
  - *Milestone M2 – Substantial Completion*
    - *October 31, 2022*
  - *Milestone M3 – Punch List Completion*
    - *November 30, 2022*



- Refer to specification section 01 32 16 "Construction Project Schedule" and general conditions for details and requirements.

#### **K. OBTAINING PLANS AND SPECIFICATIONS**

- Available at Bid Express only (<https://bidexpress.com>)

#### **L. REQUIRED BID SUBMITTALS (AE)**

- Completed Bid form
- Bid Guaranty
  - o 10% of the base bid plus all additive alternates
- Valid Power of Attorney
  - o ... of the Agent signing for the Surety
- Ohio Department of Insurance Certificate of Compliance
  - o ... showing the Surety is licensed to do business in Ohio.
  - o Note: Bid Express does not include a separate location for uploading this document. Please attach to the Power of Attorney and upload as part of that document.

#### **M. RECOMMENDED ADDITIONAL BID SUBMITTALS**

- Bidder's Qualifications (Refer to Instructions to Bidders Article 2.10.3)
- Completed EDGE Affidavit

#### **N. PERMITS/INSPECTIONS**

- Status of current permit applications
  - o Partial Plan Approval
    - Approved footers/foundations, slabs, exterior walls.
    - Partial interior partitions/finishes, electrical, mechanical, and plumbing.
  - o Water Well
    - Contractor shall be responsible for obtaining well permit and coordinating all work with the Preble County General Health District.
- Awarded contractor will be required to provide deferred permit submittals including, but not limited to engineered wood truss shop drawings.

#### **O. SAFETY**

- General Conditions Article 6.13.1.1 – The Contractor is responsible for designing and implementing its own safety program, including compliance with OSHA regulations. The Contractor's safety plans, such as fall protection, hazards, communications, competent person, etc., shall meet or exceed the Owner's safety plan (if any).
- General Conditions Article 6.13.3 – Before starting any Work, the contractor shall submit to the Contracting Authority a copy of the Contractor's site-specific safety plan and safety manuals.
  - o Note that submittal is for information only; not for approval by the Contracting Authority.

#### **P. DRUG FREE – SAFETY PROGRAM (OFCC)**

- OBWC Drug-Free Safety Program
  - o Bidder must be enrolled in program prior to contract award.
  - o Subcontractors must be enrolled prior to starting work on site.



**Q. EDGE PARTICIPATION (OFCC)**

- *This project has a 5 % EDGE Participation goal.*
- *EDGE is discussed in the Solicitation, Bid Form, Instructions to Bidders, & General Conditions.*
- *If bidder does not commit to the published EDGE goal the Bidder will need to seek a waiver and demonstrate that good faith efforts were exhausted to reach that goal.*
- *A Bidder's prior EDGE commitment (at bid), and EDGE participation during the Work (EDGE payments), will be considered when evaluating Bidder responsibility for future awards.*

**R. INSURANCE**

- *Contractors are to provide and maintain Workers Compensation, Liability, and Builders Risk coverage as outlined in Articles 10.3 and 10.4 of the General Conditions.*
- *Use of drones on site requires aviation liability insurance coverage and FCC operator's license.*

**S. SUBCONTRACTORS**

- *General Conditions Article 4.1.1 – Within 10 days after the Notice to Proceed, or other period as mutually agreed by the Contractor and Contracting Authority, the Contractor shall submit to the A/E a Subcontractor and Material Supplier Declaration form through which the Contractor identifies its Subcontractors.*
- *General Conditions Article 4.2.1 – All Subcontracts shall be on the State of Ohio Subcontract Form prescribed by OAC Section 153:1-03-02.*
  - o *Form is available on the Ohio Facilities Construction Commission "forms" website.*
- *General Conditions Article 4.2.2 – No less than 10 days before Work is to be performed by a Subcontractor, or within a shorter period as mutually agreed by the Contractor and Contracting Authority, the Contractor shall submit to the Contracting Authority and A/E a complete copy of the executed Subcontract between the Contractor and Subcontractor.*
- *General Conditions Article 4.3.1 – The Contractor shall not replace any Subcontractor after execution of the Subcontract without the prior written approval of the Contracting Authority.*

**T. PREVAILING WAGE (OFCC)**

- *This is a State prevailing wage project with Contractor / Subcontractor compliance and reporting requirements.*
  - o *Current prevailing wage rates have been included in the specifications for reference; however, they are subject to change.*

**U. SUPPLEMENTARY CONDITIONS & SUPPLEMENTARY INSTRUCTIONS**

- *Please refer to these specially prepared sections tailored for this project.*
  - o *00 73 00 "Supplementary Conditions"*

**V. MISCELLANEOUS ITEMS**

- *Basis of Design Specifications*
  - o *Bidder is responsible to cover the cost of any additional required components if selecting alternative approved manufacturers.*



**W. QUESTIONS**

- Refer to Addendum 001 for questions and responses.

**X. SITE TOUR**

- Eaton Outpost – 5656 US-127, Eaton, Ohio 45320
  - o Friday, January 07, 2022 – 9:00 am – 10:00 am
  - o Please contact Dano Boyne at [dboyne@jeromescott-architects.com](mailto:dboyne@jeromescott-architects.com) to reserve a spot.

***\* Note: Verbal interpretations of the Contract Documents and any statements made at the Pre-Bid meeting by the Associate, the Owner, or its representatives will not be binding. Any and all changes to the Contract Documents will be made by written addendum.***



# Document 00 52 00 - Agreement Form

## State of Ohio Standard Requirements for Public Facility Construction

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This Agreement is made as of the date set forth below between the State of Ohio, acting by and through the Contracting Authority, and the Contractor in connection with the Project.

**Project Number:** DOT-200023  
**Project Name:** ODOT Eaton Outpost  
**Site Address:** 5656 US-127  
Eaton, Ohio 45320

**Owner:** Ohio Department of Transportation  
**Owner's Representative:** Carrie Yost  
**Address:** 1600 W. Broad St, Suite 2033  
Columbus, Ohio 43223

**Contracting Authority:** Ohio Facilities Construction Commission  
**Project Manager:** Wade Simpson  
**Address:** 30 W. Spring St., 4<sup>th</sup> floor  
Columbus, Ohio 43215

**Contractor:** «insert name»  
**Contractor's Principal Contact:** «insert name»  
**Address:** «insert street address»  
«insert city, state zip code»

**Architect/Engineer ("A/E"):** Jerome M. Scott Architects, Inc.  
**A/E's Principal Contact:** Dano Boyne  
**Address:** 1020 Goodale Blvd.  
Columbus, Ohio 43202

### ARTICLE 1 - SCOPE OF WORK; EDGE COMMITMENT

- 1.1** The Contractor shall perform and provide all of the Work described in the Contract.
- 1.2** The project delivery method for this Project shall be General Contracting.
- 1.3** The Contractor shall contract with EDGE-certified Business(es) for not less than 5 percent of the Contract Sum.

### ARTICLE 2 - COMPENSATION

**2.1** The Owner shall pay the Contractor the Contract Sum for the Contractor's proper, timely, and complete performance of the Contract. The Contract Sum is \$«insert amount», subject to Modifications as provided in the Contract Documents. The Contract Sum is comprised of the following:

- 2.1.1** Base Bid: .....\$«Insert Base Bid Amount»
- 2.1.2** Alternate «Insert Alternates Awarded»: .....\$«Insert Alternate Amount»
- 2.1.3** Alternate «Insert Alternates Awarded»: .....\$«Insert Alternate Amount»
- 2.1.4** Alternate «Insert Alternates Awarded»: .....\$«Insert Alternate Amount»
- 2.1.5** Alternate «Insert Alternates Awarded»: .....\$«Insert Alternate Amount»

### ARTICLE 3 - CONTRACT TIMES

**3.1** The Contract Times are the periods established in the following table for the achievement of the associated Milestones:

Construction Stage Milestone(s) to which Liquidated Damages apply	Contract Time	Projected Date (as of the date of this Agreement)
Substantial completion of all work ( <i>Milestone M2</i> )	245 days	October 31, 2022



Construction Stage Milestone(s) to which Liquidated Damages apply	Contract Time	Projected Date (as of the date of this Agreement)
Completion of all punch list items ( <i>Milestone M3</i> )	275 days	November 30, 2022

**3.1.1** The projected dates listed under “Projected Date (as of the date of this Agreement)” are provided only for convenient reference during consideration of the Agreement. The durations listed under “Contract Time” define the Contract Times and take precedence over the projected dates.

## ARTICLE 4 - KEY PERSONNEL

**4.1** The Contractor’s key personnel for the Project are:

**4.1.1** «insert name», Project Manager;

**4.1.2** «insert name», Lead Scheduling Engineer;

**4.1.3** «insert name», General Superintendent.

**4.2** The Contractor’s key personnel are authorized to act on the Contractor’s behalf with respect to the Project and all matters concerning the Project.

## ARTICLE 5 - GENERAL PROVISIONS

### **5.1** Effectiveness.

**5.1.1** It is expressly understood by the Contractor that none of the rights, duties, and obligations described in the Contract Documents shall be valid and enforceable unless the Director of the Office of Budget and Management first certifies that there is a balance in the Owner’s appropriation not already encumbered to pay existing obligations and until all relevant statutory provisions of the Ohio Revised Code, including ORC Section 126.07, have been complied with, and until such time as all necessary funds are available or encumbered and, when required, such expenditure of such funds is approved by the State Controlling Board, or other applicable approving body.

**5.1.2** In addition, if federal funds are to be used to pay fees and expenses under this Agreement, none of the rights, duties, and obligations contained in this Agreement shall be binding on any party until the Owner gives the Contractor written notice that such funds are available from the Owner’s funding source.

**5.1.3** Subject to **Section 5.1.1**, the Contract shall become binding and effective upon execution by the Contracting Authority, Owner, Contractor, and Ohio Attorney General.

**5.1.3.1** If the Contractor is a joint venture, **(1)** each individual joint venturer shall **(a)** sign the Agreement in its own name and **(b)** be a party to the Contract, and **(2)** the Contract and the Performance and Payment Bond shall be binding on and apply to all joint venturers jointly and severally.

**5.1.3.2** If the Contractor is a limited liability company, which the Contracting Authority reasonably believes to be a special purpose or similar entity, the Contracting Authority may in its discretion require the limited liability company and each member of the limited liability company to **(1)** sign the Agreement in its own name and **(2)** be a party to the Contract. In that case, the Contract and the Performance and Payment Bond shall be binding on and apply to the limited liability company and to all of its members jointly and severally.

**5.1.4** This Agreement may be executed in several counterparts, each of which shall constitute a complete original Agreement, which may be introduced in evidence or used for any other purpose without production of any other counterparts.

### **5.2** Representations.

**5.2.1** The Contractor represents and warrants that it is not subject to an unresolved finding for recovery under ORC Section 9.24. If this representation and warranty is found to be false, the Contract is void, and the Contractor shall immediately repay to the Owner any funds paid under this Contract.



**5.2.2** The Contractor hereby certifies that neither the Contractor nor any of the Contractor's partners, officers, directors, shareholders nor the spouses of any such person have made contributions in excess of the limitations specified in ORC Section 3517.13.

**5.2.3** The Contractor, by signature on this Agreement, certifies that it is currently in compliance with, and will continue to adhere to, the requirements of Ohio ethics laws and conflict of interest laws and will take no action inconsistent with those laws.

**5.2.4** The Contractor affirms to have read and understands Executive Order 2019-12D and shall abide by those requirements in the performance of this Contract. Notwithstanding any other terms of this Contract, the State reserves the right to recover any funds paid for services the Contractor performs outside of the United States for which it did not receive a waiver. The State does not waive any other rights and remedies provided the State in this Contract.

**5.2.5** Pursuant to ORC Section 9.76(B), the Contractor warrants that it is not boycotting any jurisdiction with whom the State of Ohio can enjoy open trade, including Israel, and will not do so during the term of this Contract.

## ARTICLE 6 - Enumeration of Documents

**6.1** The Contract Documents constitute the substance of the Contract, and include this Agreement, Drawings, Specifications, Addenda if any, **Contracting Definitions, General Conditions**, Supplementary Conditions if any, **Bid Form, Wage Rate Requirements, Bid Guaranty and Contract Bond or Performance and Payment Bond**, and Change Orders if any.

## SIGNATURES

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date set forth below:

«INSERT CONTRACTOR'S NAME»

STATE OF OHIO

\_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*Printed Name*

\_\_\_\_\_  
*Printed Name*

\_\_\_\_\_  
*Title*

\_\_\_\_\_  
*Title*

**OWNER'S CONCURRENCE**  
by «insert Owner's name»

**OHIO ATTORNEY GENERAL**  
Approval as to Form

\_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*Printed Name*

\_\_\_\_\_  
*Printed Name*

\_\_\_\_\_  
*Title*

\_\_\_\_\_  
*Title*

\_\_\_\_\_  
*Purchase Order No.*

\_\_\_\_\_  
*Date*

**END OF DOCUMENT**



## SECTION 013216 – CONSTRUCTION PROGRESS SCHEDULE

### PART 1 GENERAL

#### 1.01 SUMMARY

- A. This Section includes Preliminary Construction Schedule, Baseline Schedule, Monthly Progress Schedules, and Recovery Schedules.
  - 1. For clarity, this Section uses the term Schedule Manager for activities performed by the Contractor (General Contracting).
  - 2. In its Base Bid, the Contractor shall include providing scheduling services to meet these requirements.
- B. Accepted Schedules will be used to plan organize, and execute the work, to measure the progress of the work, to coordinate and complete remaining work, to aid in evaluating time extensions, and to provide the basis for all progress payments.
- C. Failure to maintain Schedules in a contract compliant status may result in the Contracting Authority withholding payment until the schedule is accepted in accordance with Section 9.8 of the General Conditions.
- D. Related Sections:
  - 1. 01 10 00 – Summary of Work
  - 2. 01 73 00 – Execution
  - 3. 01 77 00 –Closeout Procedures

#### 1.02 DEFINITIONS

- A. Construction Type 1 - Earth Moving: Construction activities include but not limited to excavation, grading, trenching, backfilling, landscaping.
- B. Construction Type 2 - Structures and Surfacing: Construction activities include but not limited to civil structures, engineered structures, architectural assemblies, pavements.

#### 1.03 SUBMITTALS

- A. 90-Day Preliminary Schedule with Narrative Report: Defines the Contractor's planned operations for the first 90 calendar days and shall be submitted for acceptance within 30 calendar days after the Notice to Proceed is issued.
- B. Baseline Schedule with Narrative Report: Defines the Contractor's planned operations for the duration of the contract to completion, issuance of the Certificate of Substantial Completion and shall be submitted for acceptance within 90 calendar days after the Notice to Proceed is issued.



- C. Monthly Progress Schedules with Narrative Report: Indicates deviations from the Baseline Schedule and the preceding Monthly Progress Schedule and/or Recovery Schedule as applicable with Narrative Report. The narrative report should include, but not limited to, logic changes, added/deleted activities and justification for changes made. Monthly Progress Schedules with Narrative Report shall be submitted at the last Progress Meeting of the month.
- D. Recovery Schedules with Narrative Report: Indicates revisions to a Monthly Progress Schedule to regain contract compliance with Milestone dates, date of Substantial Completion, date of Contract Completion, and deviations from the Baseline Schedule. Recovery Schedules with Narrative Report shall be submitted before the first Progress Meeting of the month. Recovery Schedule with Narrative Report is required if the preceding Monthly Progress Schedule with recorded adverse weather exceeds the Baseline Schedule's Milestone dates, date of Substantial Completion, and/or date of Contract Completion by calendar days greater than the recorded adverse weather days.
- E. Two-Week Look-Ahead Report: Reports the activities of the previous 7 calendar days, approximate percentage of total activity completed to date, and manpower loading-by-trade; activities anticipated in the succeeding 7 calendar days; and activities in the succeeding 7 calendar days thereafter. The Two-Week Look-Ahead Report shall be submitted at each Progress Meeting. Two-Week Look-Ahead Report activities are to correlate to activities within the construction schedule, including additional detail as necessary.
- F. Schedule Manager Resume: Submitted by email for acceptance no later than 7 calendar days after the Notice to Proceed.
- G. Schedule submittals are to be submitted as a live file in .XML format as well as a PDF for reference.
- H. Submittal Procedure for Schedules: Submitted through the Schedule Approvals business process in the State's web-based project management system, OAKS Capital Improvements (OCI).

#### 1.04 QUALIFICATIONS

- A. Schedule Manager: Minimum 5 years' experience in critical path method scheduling using Oracle's Primavera P6 software.

#### 1.05 SCHEDULE KICK-OFF MEETING

- A. The purpose of the Schedule Kick-Off Meeting is to review the contract requirements for construction scheduling including, but not limited to:
  - 1. Applicable delivery method template
  - 2. Project calendars
  - 3. Project Level Activity Codes
  - 4. Minimum WBS breakdown
  - 5. Anticipated project work sequence
  - 6. Submission methodologies



## PART 2 PRODUCTS

### 2.01 SCHEDULE SOFTWARE

- A. The computer software utilized by the Schedule Manager to produce the project schedules will be Oracle's Primavera P6 software, version 6 or later.

## PART 3 EXECUTION

### 3.01 CRITICAL PATH METHOD

- A. The Critical Path Method (CPM) of network calculations will be used to generate the schedule. The Schedule Manager shall provide project schedules (Preliminary, Baseline, Progress Updates, Recovery, etc.) in .XML formatting as well as a .PDF for reference. Note: The required formatting may be waived by the Project Manager if the Contractor's proposed alternate formatting is supported by exceptional circumstances, i.e., short contract duration (less than six months) with a single trade.

### 3.02 SCHEDULE STRUCTURE

- A. With the exception of the Preliminary Schedule submission, the Construction Schedule shall include an appropriate level of detail. Failure of the Schedule Manager to develop or update the schedule or provide resource information will result in the schedule not being accepted.
  - 1. Provide a standard project calendar working day schedule that shows the various activities of work in sufficient detail to demonstrate a reasonable and workable plan to complete the work per the contract. Show the order and interdependence of activities and the sequence for accomplishing the work. Describe all activities in sufficient detail so that the Contracting Authority can readily identify the work and measure the progress of each activity. The Baseline Schedule must reflect the scope of work, required phasing, Owner requirements, Owner activities as predecessors to Contractor activities, interim Milestone completion dates (as needed), Substantial Completion Finish on or Before Milestone, the Contract Completion Finish on or Before Milestone, and other project milestones established in the Contract Documents. Include activities for critical project submittals, working drawings, shop drawing preparation, review and approval time for submittals and shop drawings, material procurement and fabrication, and the delivery of materials, plant, and equipment, and other similar activities.
  - 2. The Contractor shall be responsible for assuring all work, including all subcontractor work, is included in the Baseline Schedule. The Contractor shall be responsible for assuring that all work sequences are logical and that the schedule indicates a coordinated plan.
  - 3. Failure by the Contractor to include any element of work required for performance of the Contract shall not excuse the Contractor from completing all work within the required time. The Contracting Authority's review of the baseline schedule will be for compliance with the specifications and contract requirements. Acceptance by the Contracting Authority will not relieve the Contractor of any of their responsibilities for the accuracy or feasibility of the schedule. Omissions and errors will be corrected as described in Section F or I in this note and will not affect contract time.
- B. Activity Durations:
  - 1. Submit the following data to support the standard project calendar as it relates to durations. Failure of the Schedule Manager to include this data will delay the review of the submittal until the Contracting Authority receives the missing data.



- a. The proposed number of working days per week
- b. The holidays to be observed during the life of the contract (by day, month, and year)
- c. Exception dates set aside by the Owner as non-working days
- d. The planned number of shifts per day
- e. Break up the work into activities of a duration no longer than 20 workdays each, except as to non-construction activities (e.g., procurement of materials, delivery of equipment, concrete and asphalt curing) and any other activities for which the contracting Authority may approve a longer duration.
- f. Activity durations will be in whole days, do not include decimals in the duration. Do not represent the Owner requirements, erosion control, and other similar items as single activities extending to the Substantial Completion date. Break these Contract Items into component activities.

C. Activity Logic:

1. All activities, except the first activity, shall have a predecessor(s). All activities, except the final activity, shall have a successor(s).
2. Use only finish to start relationships with no leads or lags to link activities or using start to start relationships with lags no greater than the predecessor duration to link activities.
3. Use of finish-to-finish relationships is permitted when both activities are already lined with a start to start relationship.

D. Procurement Activities:

1. Prepare the schedule in chronological order of critical submittals. Show specification section of the submittal, name of Contractor and generic description of work covered. Include activities to cover the complete procurement process to include submittal, review, approval, resubmittal, re-review, procurement, fabrication, delivery, permits, and similar pre-construction work.

E. Project Level Resources:

1. Activities shall include a primary resource of estimated budgeted units indicating man hours associated with each activity.
2. Identification of manpower, material, or equipment restrictions, as well as any activity requiring unusual shift work, such as two shifts per day, six-day work week, specified overtime, or work at times other than regular days or hours shall clearly be identified in the Project Schedule as needed.
3. Critical or near Critical Paths resulting from the use of manpower or equipment restraints shall be kept to a minimum. Near Critical Paths are defined as paths having 10 workdays or less of total float.

F. Project Level Activity Codes:

1. All activities shall be assigned, at a minimum, the following Project Level Activity Codes.
  - a. Responsibility indicating the party responsible to perform the work. Responsibility includes, but is not limited to, the contracting firm, the subcontracting firm, Contractor workforce or



Agency performing a given task. Activities shall not belong to more than one responsible party.

- b. Weather Dependent (Type 1, Type 2, or None)
- c. Off hour work or unique shifting requirements

G. Project Level Calendars:

- 1. Only project level calendars are to be utilized. All project level calendars are to be set with the detailed work hours/day calculating from 8 am-5 pm, with the noon hour break for lunch and shall inherit no exceptions or holidays from global calendars. The project level calendar names shall be utilized to identify specific planned work hours on site (4'10s, 5D, 6D, etc.) The contracting authority monitors progress on 1-day duration basis, it is the responsibility of the Contractor to execute the hours/resources needed to accomplish an activity in a given 1-day duration. No global data of any kind (codes, calendars, etc.) is to be used.

H. Activity Default Settings:

- 1. An activity should have the below default activity settings. Any variances must be approved by the Contracting Authority.
  - a. Activity Type: Task Dependent
  - b. Duration Type: Fixed Duration & Units
  - c. % Complete Type: Duration

I. Schedule Group and Sort Organization:

- 1. Arrange the schedule to show each major area of construction for each major category or unit of work by Work Breakdown Structure (WBS) or Project Level Activity Codes. The schedule organization should have a minimum of three levels.
- 2. All activity names shall include a reference to the group and sort associated which is agreed upon during the schedule kick off meeting. Activities shall not be allowed to cover more than one work area.

J. Change Order or Claim Number:

- 1. Any scope revision which modifies the critical path, or impacts an interim date, or Substantial Completion date must be represented in the schedule as a fragnet. A fragnet is defined as a sequence of new activities, to include the associated change identifier (PCO, CO, RFI, etc.), that are proposed to be added to the existing schedule. The fragnet shall identify the predecessors to the new activities and demonstrate the impacts to succeeding activities. The fragnet is to be added to the schedule at the progress update just prior to the known impact.

K. Milestones:

- 1. Milestone dates are required to be met by the Contractor. Time is of the essence for the completion of Milestones, Substantial Completion date, and for the Contract Completion date.
- 2. The following Milestone dates shall be adhered to by the Contractor (and Owner where specified):
  - a. **Milestone M1 (Owner Milestone)– April 01, 2022**



Site to be turned over to the contractor for commencement of on-site construction activity. Note that an area on site may be designated for material laydown and construction trailer mobilization prior to this milestone date subject to Owner approval.

b. ***Milestone M2 – October 31, 2022***

*Substantial Completion in accordance with the General Conditions.*

c. ***Milestone M3 – November 30, 2022***

Completion of all substantial completion punch list items.

L. Adverse Weather:

1. Definitions

- a. Adverse Weather Day: A day when the magnitude of a weather parameter (precipitation or temperature) is such that it creates conditions that inhibits the ability of the Contractor to work productively on critical construction activities.
- b. Expected Adverse Weather Days: The number of adverse weather days expected to occur on a monthly basis and defined for two different construction types (Type 1: Earth Moving and Type 2: Structures and Surfacing).
- c. Unexpected Adverse Weather Days: The number of adverse days that exceed the expected number of adverse weather days determined on a monthly basis. Also include number of days with lightning and/or high winds that inhibit the ability of the Contractor to work productively on critical construction activities as corroborated by the Contracting Authority. The Contractor is to notify the contracting authority within one month of a weather event.
- d. Actual Adverse Weather Days: The actual number of adverse weather days that occur during a single month.
- e. Precipitation: Rain, snow, or hail where 1" of rain equals 12" of snow.
- f. Calendar Day is based on all available days including weekends and holidays.
- g. Working Day is based on a five-day work week and excludes weekends and legal holidays.

2. Methodology

- a. Adverse Weather Days Criteria
  - 1) A single precipitation threshold of greater than 7.62 mm (0.30 in) determines an adverse weather day for Type 1 and Type 2 construction.
  - 2) A single precipitation threshold of greater than 19.05 mm (0.75 in) the previous day determines an adverse weather day/additional consecutive non-working day for Type 1 construction only.
  - 3) A single precipitation threshold of greater than 7.62 mm (0.30 inch) reached before shut-down determines an adverse weather day for Type 1 and Type 2 construction.
  - 4) A single daily maximum temperature threshold of less than 0 degrees C (32 degrees F) determines an adverse weather day for Type 1 & Type 2 construction.
  - 5) A combination of daily maximum temperature less than 0 degrees C (32 degrees F) and precipitation greater than 7.62 mm (0.30 inch) determines a single adverse weather day.
- b. Expected Adverse Weather Days



- 1) Calculate the average number of expected adverse weather calendar days per month based on 5 years of data from the nearest National Oceanic and Atmospheric Administration (NOAA) Land-Based Station for each construction type. Data can be found at the NOAA associated National Centers for Environmental Information (NCEI) web site at <https://www.ncei.noaa.gov/>.
- 2) Calculate the average number of expected adverse workdays per month by multiplying the average number of expected adverse weather calendar days per month by 5/7 and randomly, non-consecutive when possible, distribute the weather days throughout the project level weather calendars.

M. Scheduled Project Completion:

1. Project Start Date: The Construction Schedule may start no earlier than the date that the Notice to Proceed (NTP) was issued. The Schedule Manager shall include as the first activity in the Construction Schedule a Start Milestone called "Notice to Proceed." The "Notice to Proceed" activity shall have: a start constraint equal to the date that the NTP was issued.
2. Constraint of Last Activity: Completion of the last Finish Milestone in the schedule shall be constrained by the contract completion date. Calculation on project updates shall be such that if the early finish of the last activity falls after the contract completion date, then the float calculation shall reflect a negative float on the Critical Path. The Schedule Manager shall include as the last activity in the Project Schedule an activity called "Contract Complete". The completion milestones activity shall have a: Finish on or Before constraint, a constraint date equal to the Contract Completion milestone identified herein.
3. Project Details Must Finish By Date: The Schedule Manager shall set the "project details must finish by schedule date" to be equal to the "Contract Complete" date.

N. Interim Completion Dates (Milestones):

1. Contractually specified interim completion dates (Milestone dates) shall also be constrained to show negative float if early finish date of the last activity in that phase falls after the interim completion date.

O. Default Progress Data Disallowed:

1. Actual Start and Finish dates shall not be automatically updated by default mechanisms that may be included in the CPM Scheduling Software. Actual Start and Finish dates and Remaining Durations on the CPM Schedule shall match those dates provided from Contractor Daily Reports for every in progress or completed activity and insure that the data contained on the Daily Reports is the sole basis for schedule updating. Failure to comply may result in the disapproval of schedule.

P. Out of Sequence Progress:

1. Activities that have posted progress without predecessors being completed (Out of Sequence Progress) shall be retained in the schedule only by the case by case concurrence of the Contracting Authority. The Contracting Authority may direct that changes in schedule logic be made to correct any or all Out of Sequence Work. Schedule must be calculated with the retained logic setting.

Q. Negative Lag(s):



1. Lag durations contained in the schedule shall not have a negative value unless approved by the Contracting Authority.

R. Definition of, and Conditions Relating to Float:

1. Float is defined as the amount of time between the early start date and the late start date, or the early finish date and the late finish date, of any activity in the schedule. Total float is defined as the amount of time any given activity or path of activities may be delayed before it will affect the project completion time.
2. Float is not time for the exclusive use or benefit of the Contractor and shall be used in the best interest of completing the project on time.
3. Extensions of Contract Times required under the General Conditions pertaining to equitable time adjustment will be granted only to the extent that the equitable time adjustment exceeds total float in the activity or path of activities affected at the time approval was issued for the change.
4. Use of float suppression techniques such as preferential sequences, special lead/lag logic restraints, extended activity times, or imposed dates, other than as required by the Contract, shall be cause for rejection of the Construction Schedule and any revisions or updates.

3.03 LAYOUTS / VIEWS

A. Each submitted schedule shall utilize the below layouts/views as stipulated by the Contracting Authority:

1. Preliminary Schedule Review
2. Baseline Schedule Review
3. Progress Review
4. Progress vs. Baseline Comparison
5. Progress vs. Previous Progress Comparison
6. Progress vs. Previous Progress vs. Baseline Comparison
7. Recovery Schedule vs. Previous Progress Comparison
8. Baseline Finish Date
9. Total Float
10. Actual Start and Actual Finish dates shall be printed for those activities in progress or completed

B. Activity ID Report: A list of all activities sorted according to Activity ID number and then sorted according to Early Start Date. For completed activities the Actual Start Date shall be used as the secondary sort.

C. Logic Report: A list of preceding and succeeding activities for every activity in ascending order by activity number and then sorted according to Early Start Date. For completed activities the Actual Start Date shall be used as the secondary sort.



- D. Total Float Report: A list of all activities sorted in ascending order of total float. Activities which have the same amount of total float shall be listed in ascending order of Early Start Dates.

#### 3.04 90-DAY PRELIMINARY CONSTRUCTION SCHEDULE

- A. The accepted Preliminary Construction Schedule shall be used for payment purposes and the basis for measuring Contractor progress not to exceed 90 days after Notice to Proceed is issued.
- B. Schedule Review and Comments:
  - 1. Comments made by the Contracting Authority on the Preliminary Construction Schedule during review shall not relieve the Contractor from compliance with the requirements of the Contract Documents.
  - 2. Following the Contractor's receipt of the Contracting Authority's review comments, the Contractor shall correct the schedule to identify missing activities and relationships relevant to the Scope of Work. No time extensions will be granted to complete activities not initially included in the Contractor's Preliminary Construction Schedule.
  - 3. To the extent that there are any conflicts between the accepted Preliminary Construction Schedule and the requirements of the Contract Documents, the Contract Documents shall govern.
- C. Resubmittal of Preliminary Construction Schedule:
  - 1. Should the Contracting Authority reject the Preliminary Construction Schedule, the Schedule Manager shall comply with the Contracting Authority's direction and resubmit the Preliminary Construction Schedule and all associated submittals within seven calendar days.

#### 3.05 BASELINE CONSTRUCTION SCHEDULE

- A. The Contracting Authority shall accept or reject, in writing, the Baseline Construction Schedule and the associated submittals. If the Baseline Construction Schedule is rejected, the Contracting Authority shall provide comments in writing to the Schedule Manager stating the reasons why the submission was not accepted.
- B. Acceptance of the baseline schedule does not revise the Contract Documents. The baseline schedule must be "accepted" or "accepted as noted" by the Contracting Authority prior to the Contracting Authority evaluating any Contractor claims associated with time impacts.

#### 3.06 MONTHLY PROGRESS SCHEDULES

- A. Construction Contract Adjustment for Unexpected Adverse Weather:
  - 1. Contract adjustment is justified when the number of actual adverse weather workdays exceeds the expected number of adverse weather workdays over the life of the project.
  - 2. The number of actual adverse weather workdays as reported at the nearest NOAA Land-Based Station and related construction task(s) are to be reported on a monthly basis at the last Progress Meeting of the month as a condition of Payment Application approval.
  - 3. The Contracting Authority is to verify with documentation the actual adverse weather workdays reported by the Contractor.



4. Execution: At the first Progress Meeting of each month the total number of actual adverse weather days is compared to the expected number of adverse weather days and reported by the Contracting Authority. If the number of actual adverse weather days exceeds the expected amount, then the difference is the potential days for extensions of the Contract Times due to weather. A running total will be kept for every month of the entire project. Once the project Substantial Completion date is reached, or the number of working days is completed, the Contactor may request that any net positive adverse weather days for the running total be awarded as a time extension.

### 3.07 DATA SUBMISSION

- A. The preliminary, baseline, progress, and recovery Construction Schedules shall be provided in the form of a .XML file prepared in Oracle's Primavera P6 software.

<b>Table 1 – Schedule Filename Convention</b>			
<b>Schedule</b>	<b>1st Submission</b>	<b>2nd Submission</b>	<b>3rd Submission</b>
Preliminary Schedule	YY.MM.DD_PPP-000000_01PS	YY.MM.DD_PPP-000000_02PS	YY.MM.DD_PPP-000000_03PS
Baseline Schedule	YY.MM.DD_PPP-000000_01B	YY.MM.DD_PPP-000000_02B	YY.MM.DD_PPP-000000_03B
Progress Schedule #1	YY.MM.DD_PPP-000000_01SU01	YY.MM.DD_PPP-000000_02SU01	YY.MM.DD_PPP-000000_03SU01
Progress Schedule #2	YY.MM.DD_PPP-000000_01SU02	YY.MM.DD_PPP-000000_02SU02	YY.MM.DD_PPP-000000_03SU02
Delay Analysis	YY.MM.DD_PPP-000000_01TIA01	YY.MM.DD_PPP-000000_02TIA01	YY.MM.DD_PPP-000000_03TIA01
Weather Delay Analysis	YY.MM.DD_PPP-000000_01WD01	YY.MM.DD_PPP-000000_02WD01	YY.MM.DD_PPP-000000_03WD01
Recovery Schedule	YY.MM.DD_PPP-000000_01RS01	YY.MM.DD_PPP-000000_02RS01	YY.MM.DD_PPP-000000_P03RS01
YY – Project Year MM – Month DD – Day PPP-000000 – Project Number			

### 3.08 APPROVED CHANGES VERIFICATION

- A. Only Construction Schedule changes that have been previously accepted by the Contracting Authority shall be included in the schedule submission. The narrative report shall specifically reference, on an activity-by-activity basis, all changes made since the previous period and relate each change to documented, accepted schedule changes.
- B. The Contractor shall prosecute the work in accordance with the accepted Construction Schedule. Out of sequence construction, defined as a change from the Construction Schedule in the Contractor's actual operation requires prior concurrence from the Contracting Authority.
- C. Upon the approval of a Change Order or the issuance of a Change Directive by the Contracting Authority, the agreed upon change order activities, activity durations, logic and impacts shall be reflected in the next schedule submittal by the Schedule Manager.



- D. No change to the accepted activities, original activity durations, logic, interdependencies, milestones, planned sequence of operations, or resource loading of the Construction Schedule shall be made without prior approval from the Contracting Authority. If the Contractor desires to make a change to the accepted Construction Schedule, the Contractor shall outline the revisions made within the updated narrative, stating the reasons for the change as well as the specifics, such as the proposed changes in activities, original activity durations, logic, interdependencies, milestones, planned sequence of operations, or resource loading of the baseline Construction Schedule. The Contracting Authority shall respond within three calendar days after the receipt of the Contractor's request.
- E. If the Contracting Authority considers the Construction Schedule change requested by the Contractor to be a major change, it may require the Contractor to revise and submit for acceptance, without additional cost to the Owner, all of the affected portions of the network diagrams, and any schedule reports, or construction equipment reports deemed necessary to show the probable effect on the entire project. The proposed network revision and required reports shall be submitted to the Contracting Authority within seven calendar days after the Contracting Authority notifies the Contractor that the requested revision is a major change. Only upon the approval of the requested change by the Contracting Authority may it be reflected in the next Construction Schedule update submitted by the Contractor.
- F. A change will be considered of a major nature if the time estimated for an activity or sequence of activities is varied from the original plan to the degree that there is reasonable doubt that the Substantial Completion date, Contract Completion date, or milestones will be met, or if the change impacts the work of Separate Contractors at the job site. Changes to activities having adequate float may be considered as minor changes, except that an accumulation of minor changes may be considered a major change when such changes affect the Substantial Completion date, Contract Completion date, or milestones.

END OF SECTION 013216



## SECTION 221519 - GENERAL SERVICE PACKAGED AIR COMPRESSORS AND RECEIVERS

### PART 1 GENERAL

#### 1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions, Special Conditions, and Division 01, "General Requirements," Specification Sections, apply to this Section.

#### 1.02 RELATED WORK DESCRIBED ELSEWHERE

- A. Section 22 05 12, "Plumbing Vibration Isolators."
- B. Section 22 15 13, "General Service Compressed-Air Piping."

#### 1.03 DESCRIPTION

- A. Provide an air compressor and refrigerated air dryer where shown on Drawings.

#### 1.04 QUALITY ASSURANCE

- A. Standards:
  - 1. American Society of Mechanical Engineers (ASME).
  - 2. Underwriters Laboratories Label (UL).

#### 1.05 MAXIMUM DUTY CYCLE

- A. Unit shall have sufficient capacity and designed to limit compressor operation to 25% duty cycle.

#### 1.06 RATINGS AND CAPACITY

- A. Refer to Drawings for standard cubic feet per minute, outlet pounds per square inch gauge, tank gallonage, horsepower, and electrical requirements.

#### 1.07 START-UP SERVICE

- A. Compressor Manufacturer shall provide a factory-trained Representative to start up, adjust, and prepare the compressor for final operation.

### PART 2 PRODUCTS

#### 2.01 AIR COMPRESSOR

- A. AC-1: Champion Model VR15F-12. 2-cylinder, 15 HP motor, 230 volts, 3-phase, 1,045 RPM, 49.0 CFM at 175 PSI delivery, 120 gallon vertical ASME receiver tank, complete with compressor, motor, and accessories.
  - 1. Accessories:
    - a. Air-cooled after-cooler.
    - b. Air intake silencer-filter.
    - c. Full-time low oil level shutoff control with manual reset to prevent restarting while oil is being added.
    - d. OSHA-approved, totally enclosed belt guard.
    - e. Compressor-mounted magnetic starter with thermal overload protection.
    - f. Pressure switch. Set pressure switch for 140 PSI.
  - 2. Other Acceptable Manufacturers: Ingersoll-Rand or Emglo.



PART 3 EXECUTION

3.01 COORDINATION

- A. Coordinate location of air compressor with all equipment.

3.02 INSTALLATION

- A. Install and shim air compressor to level and bolt to inertia base with spring vibration isolators. Refer to Section 22 05 12.
- B. Install air compressor and inertia base assembly on concrete pad provided by this Contractor.
- C. Perform installation and start-up of air compressor in the presence of Manufacturer's Representative.
- D. Pipe the automatic and manual drain of compressor's air receiver tank, to nearest floor drain inlet.

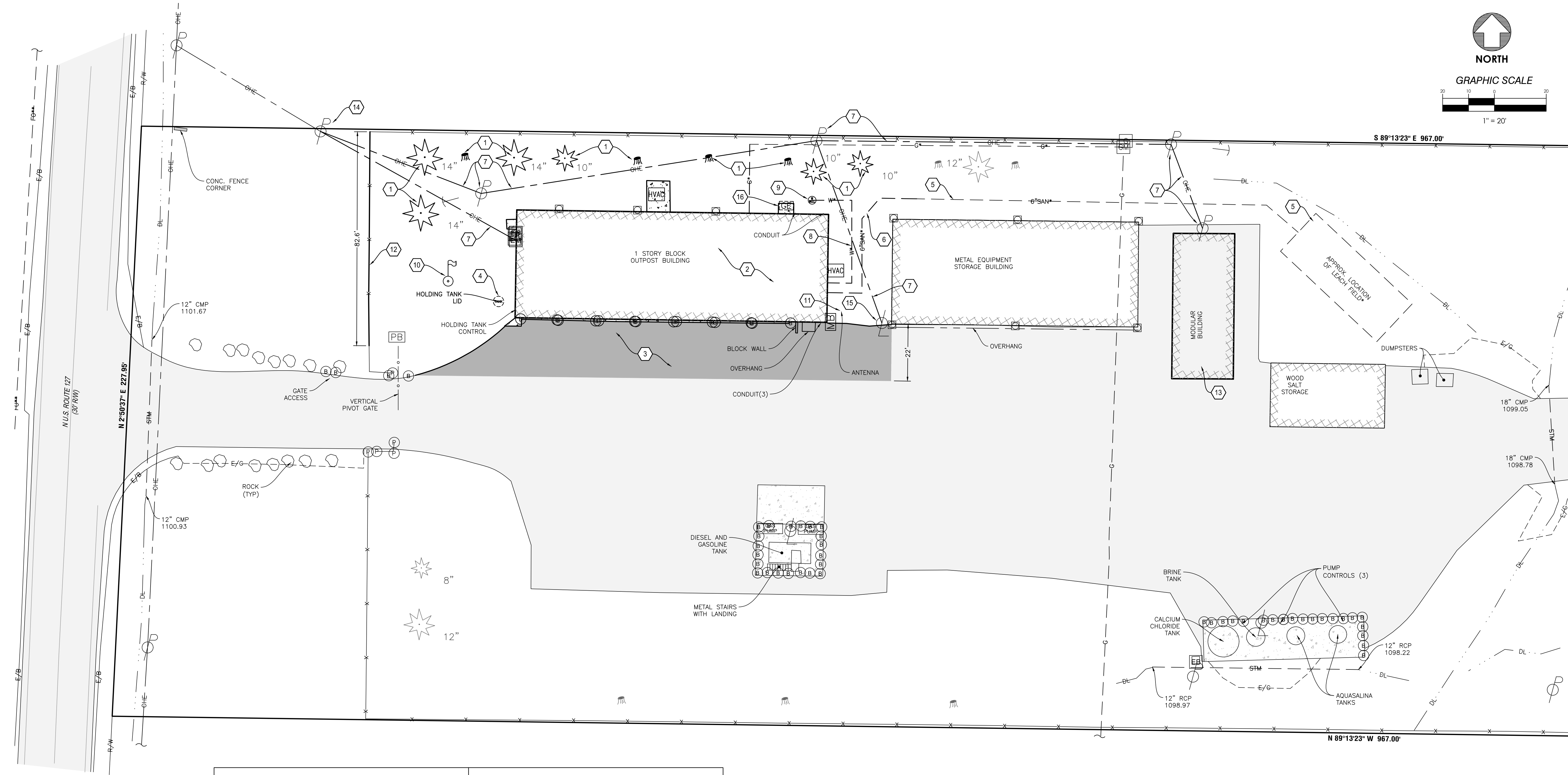
3.03 WIRING

- A. Provide disconnect switches and power wiring of air compressor.

END OF SECTION 221519



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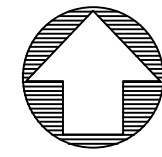


#### DEMOLITION KEYNOTES

1. STUMP OR TREE & STUMP TO BE REMOVED.
2. BUILDING & APPURTENANCES INCLUDING DOWNSPOUTS, BOLLARDS, POSTS, MECHANICAL EQUIPMENT, PADS & UTILITY SERVICES TO BE REMOVED
3. ASPHALT PAVEMENT & BASE TO BE REMOVED
4. 3500 GALLON PLASTIC UNDERGROUND HOLDING TANK TO BE REMOVED
5. SANITARY SERVICES, SEPTIC SYSTEM EQUIPMENT, TANKS & LEACH FIELD TO REMAIN FOR RECONNECTION TO NEW BUILDING SANITARY SERVICE
6. SANITARY SERVICE TO BE REMOVED. SEE SITE DIMENSION PLAN
7. POWER POLE, OVERHEAD/UNDERGROUND ELECTRIC SERVICES & EQUIPMENT TO BE REMOVED. SEE MEP PLANS
8. WATER SERVICE FROM WELL TO BUILDING TO BE REMOVED
9. WELL TO BE ABANDONED/SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF THE PREBLE COUNTY GENERAL HEALTH DISTRICT. SEALING THE EX. WELL MUST BE DONE PRIOR TO DRILLING NEW WELL, HOWEVER, BOTH ITEMS MAY BE PERFORMED UNDER THE SAME PERMIT. SEE SITE DIMENSION PLAN FOR ADDITIONAL INFORMATION.
10. FLAG POLE TO BE REMOVED & RELOCATED. SEE SITE DIMENSION PLAN
11. ANTENNA TO BE REMOVED
12. CHAINLINK FENCE & POSTS TO BE REMOVED. SEE SITE DIMENSION PLAN
13. BUILDING & APPURTENANCES TO BE REMOVED BY OWNER
14. POWER POLE TO REMAIN. SEE MEP PLANS.
15. LIGHT POLE TO REMAIN. SEE MEP PLANS.
16. GENERATOR TO BE REMOVED.
17. GAS SERVICE TO BUILDING TO BE REMOVED. SEE MEP PLANS.

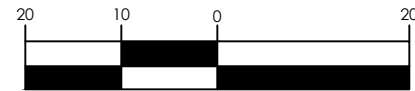
#### MISC. NOTES

- ALL ITEMS NOTED FOR DEMOLITION SHALL BE REMOVED & DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL & LOCAL REGULATIONS, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- CONTRACTOR SHALL COORDINATE THE DISCONNECTION & REMOVAL &/OR ABANDONMENT OF EXISTING UTILITIES WITH THE MEP PLANS & APPROPRIATE UTILITY OWNERS AS NECESSARY & SHALL MEET ALL APPLICABLE FEDERAL, STATE & LOCAL CODES & REQUIREMENTS. ANY ABANDONED OR INACTIVE UTILITIES ENCOUNTERED ON-SITE, WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE REMOVED TO THE PROPERTY LINE & CAPPED.
- THE REMOVAL OF ANY ITEMS WHICH HAVE IN-GROUND FOUNDATIONS, BASES OR FOOTERS OF ANY KIND SHALL INCLUDE COMPLETE REMOVAL OF SAID FOUNDATIONS.
- SEE SITE DIMENSION PLAN FOR ADDITIONAL INFORMATION.



NORTH

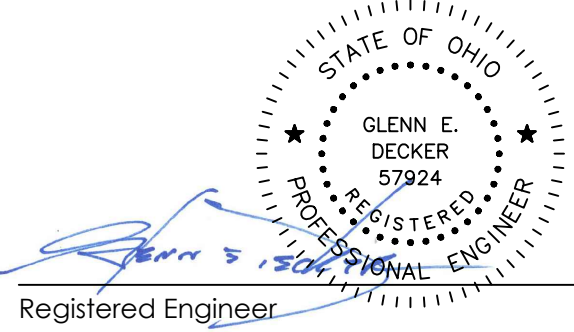
GRAPHIC SCALE



1" = 20'

**JMSA**  
ARCHITECTURE

**Jerome M. Scott**  
**Architects**  
1020 Goodale Blvd  
Columbus, Ohio  
43212



Registered Engineer Date 11-12-2021

## DOT-200023 ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

2	01/07/22	ADDENDUM 1
1	12/10/21	BID SET
-	11/12/21	PERMIT SET
MARK	DATE	DESCRIPTION

PROJECT NO: **DOT-200023**  
DATE: **12/10/21**  
DRAWN BY: **LLA**

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#### SHEET TITLE

## SITE DEMOLITION PLAN

# C200

SD PROJECT NO. 4250



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#### OFFICES

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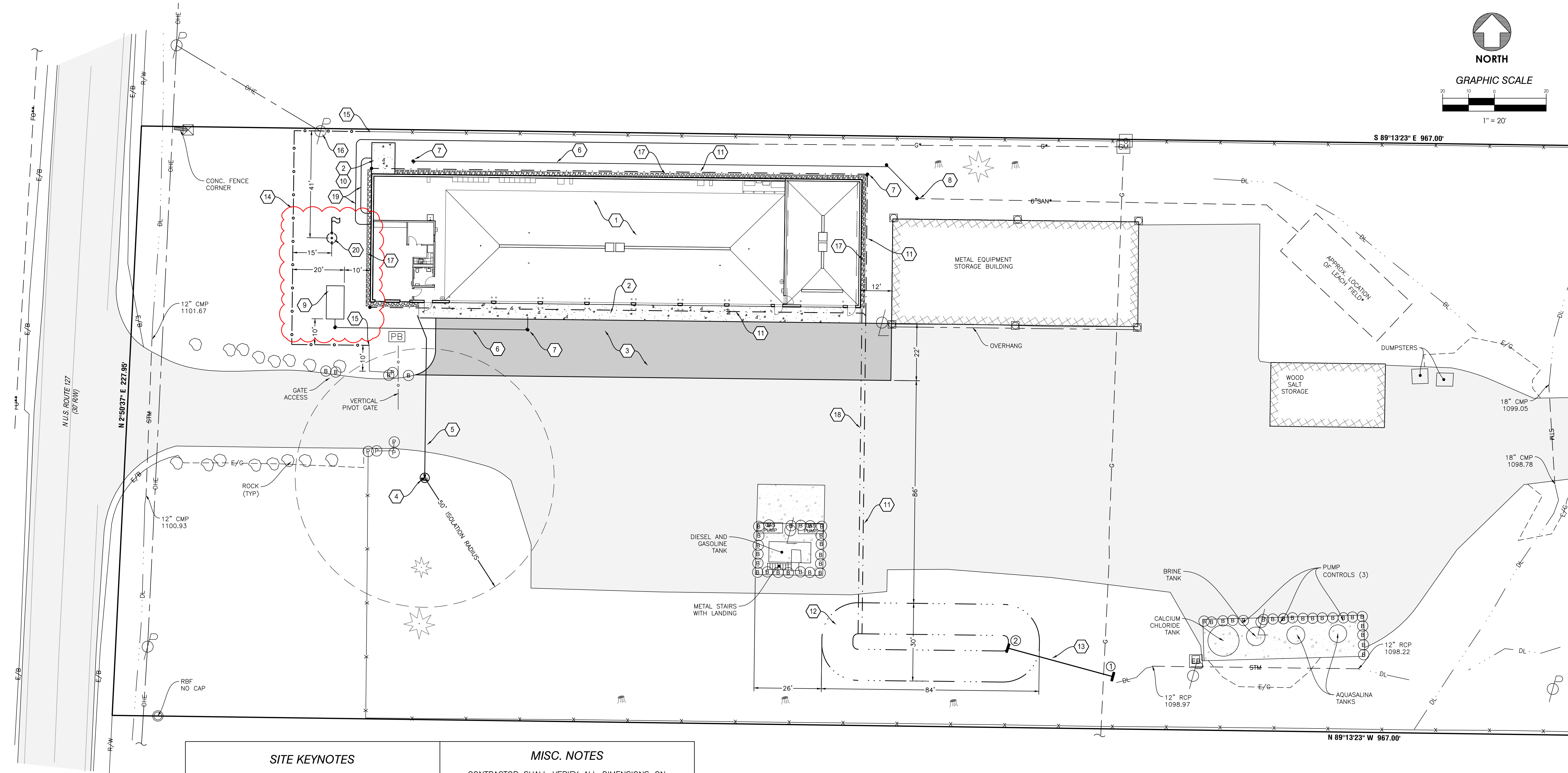
1495 Old Henderson Road  
Columbus, Ohio 43220  
614-459-6992

507 Main Street  
Zanesville, Ohio 43701  
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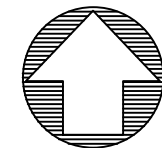


#### SITE KEYNOTES

1. OUTPOST BUILDING. SEE ARCHITECTURAL PLANS.
2. FOR CONCRETE APRON/PAD DETAILS, SEE STRUCTURAL PLANS.
3. HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL.
4. WELL. SEE MISC. NOTES.
5. 3" WATER SERVICE. COORDINATE CONNECTION TO BUILDING PLUMBING WITH MEP PLANS.
6. 6" SANITARY SEWER SERVICE AT 1.04% MIN. COORDINATE INVERT & LOCATION OF BUILDING CONNECTIONS WITH MEP PLANS.
7. CLEANOUT, TYP. SEE DETAIL.
8. FIELD VERIFY LOCATION & ELEVATION OF EX. SANITARY SERVICE & CONNECT TO NEW OUTPOST BUILDING SERVICE AS SHOWN.
9. 5000 GAL. HOLDING TANK. SEE DETAILS.
10. FUTURE GENERATOR.
11. 6" ROOF DRAIN COLLECTOR @ 0.8% MIN. COORDINATE CONNECTIONS TO BUILDING ROOF DRAINS/DOWNSPOUTS WITH ARCHITECTURAL & MEP PLANS. DISCHARGE TO DETENTION BASIN AS SHOWN.
12. STORM WATER DETENTION BASIN (QUANTITY CONTROL ONLY). SEE DETAILS.
13. STORM SEWER. SEE PROFILE.
14. CHAINLINK FENCE. SEE DETAIL.
15. CONNECT TO EX. FENCE.
16. COORDINATE PLACEMENT OF FENCE AROUND EX. UTILITY POLE WITH OWNER.
17. 18"W x 6"D NO. 4 OR NO. 57 WASHED STONE DRIP EDGE/MOW STRIP WITH 6 MIL BLACK WEED BARRIER & 3/16" x 5 1/2" INTERLOCKING ALUMINUM EDGING AT PERIMETER. EDGING SHALL BE INSTALLED WITH CONTINUOUS CORNERS & SECURED WITH MIN. 12" STAKES.
18. 4" FOUNDATION DRAIN OUTLET AT 1.2%±. DAYLIGHT TO DETENTION BASIN AS SHOWN.
19. GAS SERVICE. SEE MEP PLANS.
20. RELOCATED FLAGPOLE. SEE BASE DETAIL. COORDINATE FINAL LOCATION WITH OWNER & SIZE OF FLAG TO INSURE FULL EXTENSION IN ALL DIRECTIONS, FREE OF OBSTRUCTIONS.

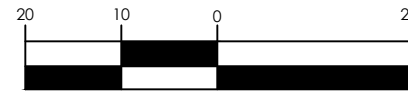
#### MISC. NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE GROUND & REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE A/E.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL BUILDING CORNER LOCATIONS IN THE FIELD.
- DO NOT SCALE FROM THIS DRAWING. ALL WRITTEN DIMENSIONS SHALL GOVERN. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE A/E.
- UNLESS OTHERWISE NOTED, FOR ALL CONCRETE PADS, APRONS & STOOPS, SEE ARCHITECTURAL AND/OR STRUCTURAL PLANS FOR DETAILS.
- CONTRACTOR SHALL PROVIDE A 75 GPM (MIN.) 3 PHASE WELL PUMP TO DELIVER 80 PSI (MIN.) TO THE BUILDING. A REGISTERED WATER SYSTEMS CONTRACTOR MUST OBTAIN A WELL PERMIT FROM THE PREBLE COUNTY GENERAL HEALTH DISTRICT PRIOR TO ANY DRILLING. ALL WORK RELATED TO THIS PERMIT MUST BE PERFORMED BY SAID CONTRACTOR & COORDINATED WITH THE HEALTH DISTRICT. A WATER SAMPLE IS REQUIRED AFTER THE WELL IS COMPLETE & CHLORINATED. IN ADDITION TO THE HEALTH DISTRICT, TESTING RESULTS SHOULD BE PROVIDED TO THE DESIGN ENGINEER TO DETERMINE IF TREATMENT OF ANY KIND WILL BE REQUIRED. SEE DEMOLITION PLAN FOR RELATED INFORMATION.
- TRENCH REPAIR FOR ASPHALT AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED PER THE HEAVY DUTY PAVEMENT DETAIL.



NORTH

GRAPHIC SCALE



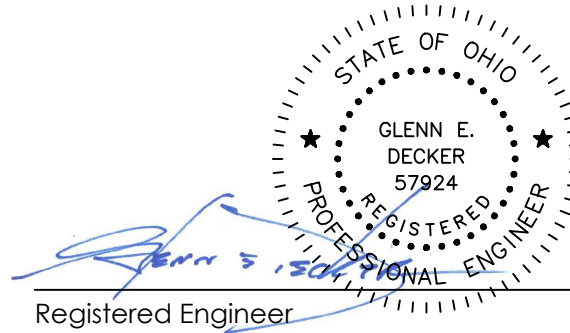
1" = 20'

S 89°13'23" E 967.00'

N 89°13'23" W 967.00'

**JMSA**  
ARCHITECTURE

**Jerome M. Scott**  
**Architects**  
1020 Goodale Blvd  
Columbus, Ohio  
43212



Registered Engineer

11-12-2021

Date

### DOT-200023 ODOT - EATON OUTPOST

5656 US-127 Eaton, Ohio 45320

2	01/07/22	ADDENDUM 1
1	12/10/21	BID SET
-	11/12/21	PERMIT SET
MARK	DATE	DESCRIPTION

PROJECT NO: **DOT-200023**  
DATE: **12/10/21**  
DRAWN BY: **LLA**

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#### SHEET TITLE

### SITE DIMENSION PLAN

**C300**

SD PROJECT NO. 4250



Know what's below.  
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#### OFFICES

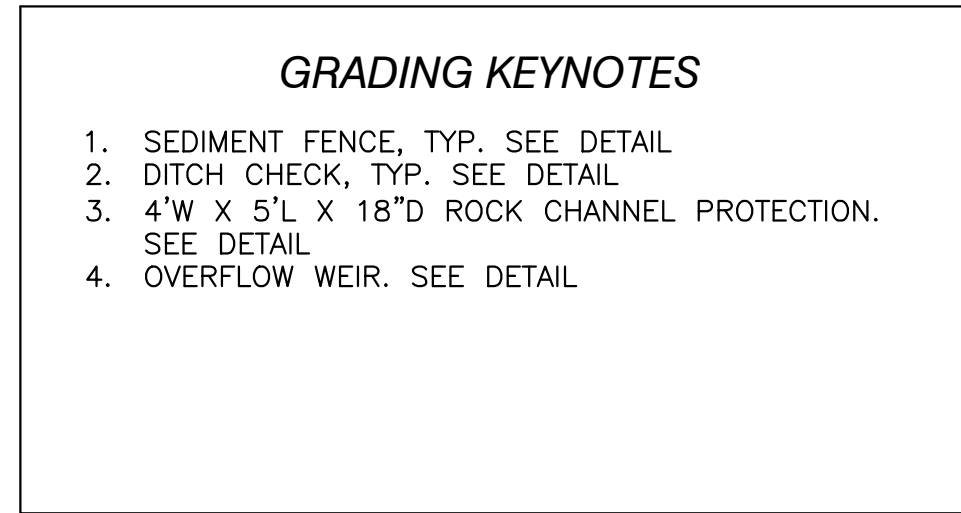
128 East Main Street  
Logan, Ohio 43138  
740-385-2140

1495 Old Henderson Road  
Columbus, Ohio 43220  
614-459-6992

507 Main Street  
Zanesville, Ohio 43701  
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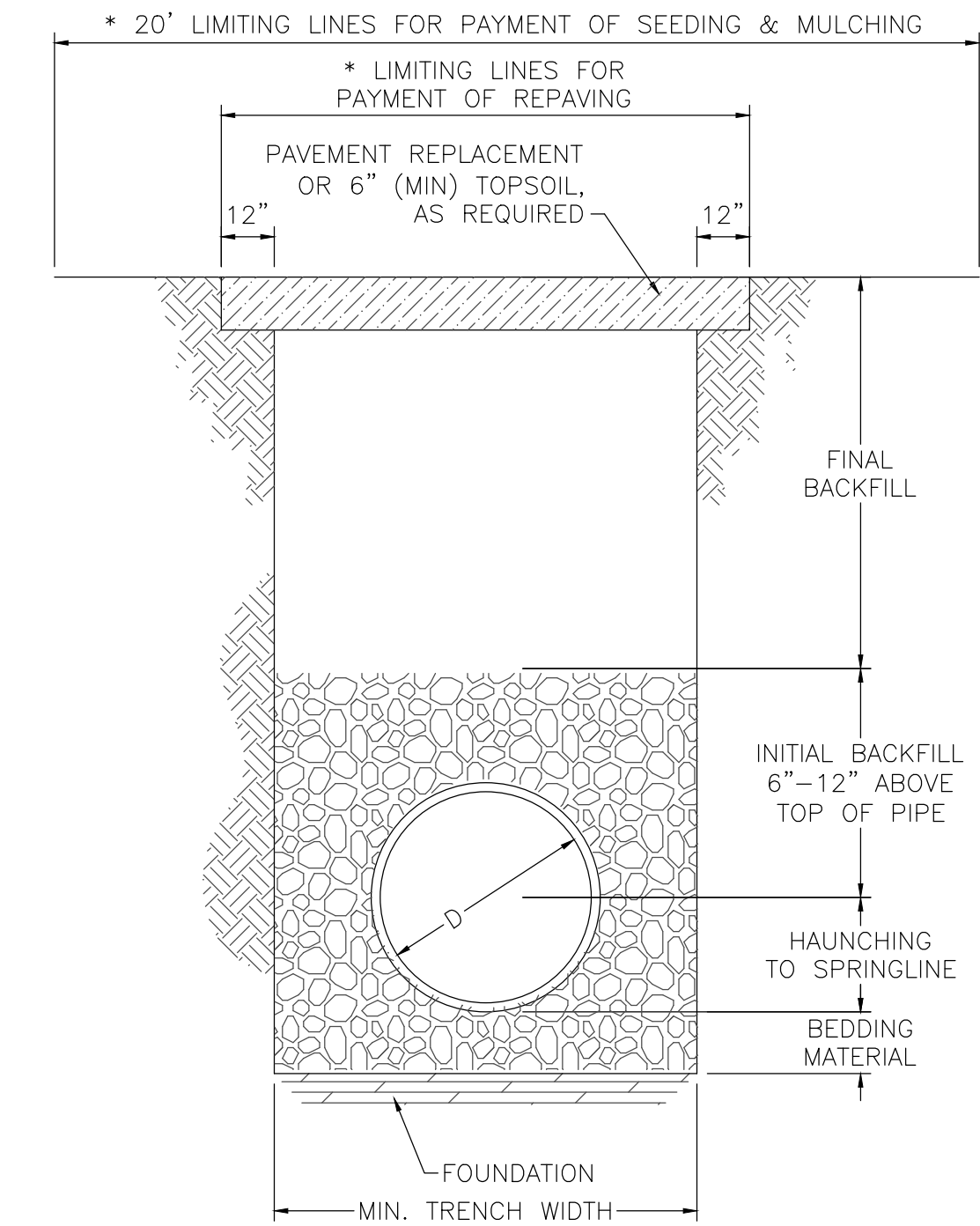
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SD PROJECT NO. 4250









\* LIMITING LINES FOR PAYMENT APPLY ONLY WHEN CONTRACT PROVIDES FOR UNIT PRICE PAYMENT OF PAVEMENT REPLACEMENT AND SEEDING & MULCHING.

TYP. TRENCH  
CORRUGATED PE PIPE  
NOT TO SCALE

1

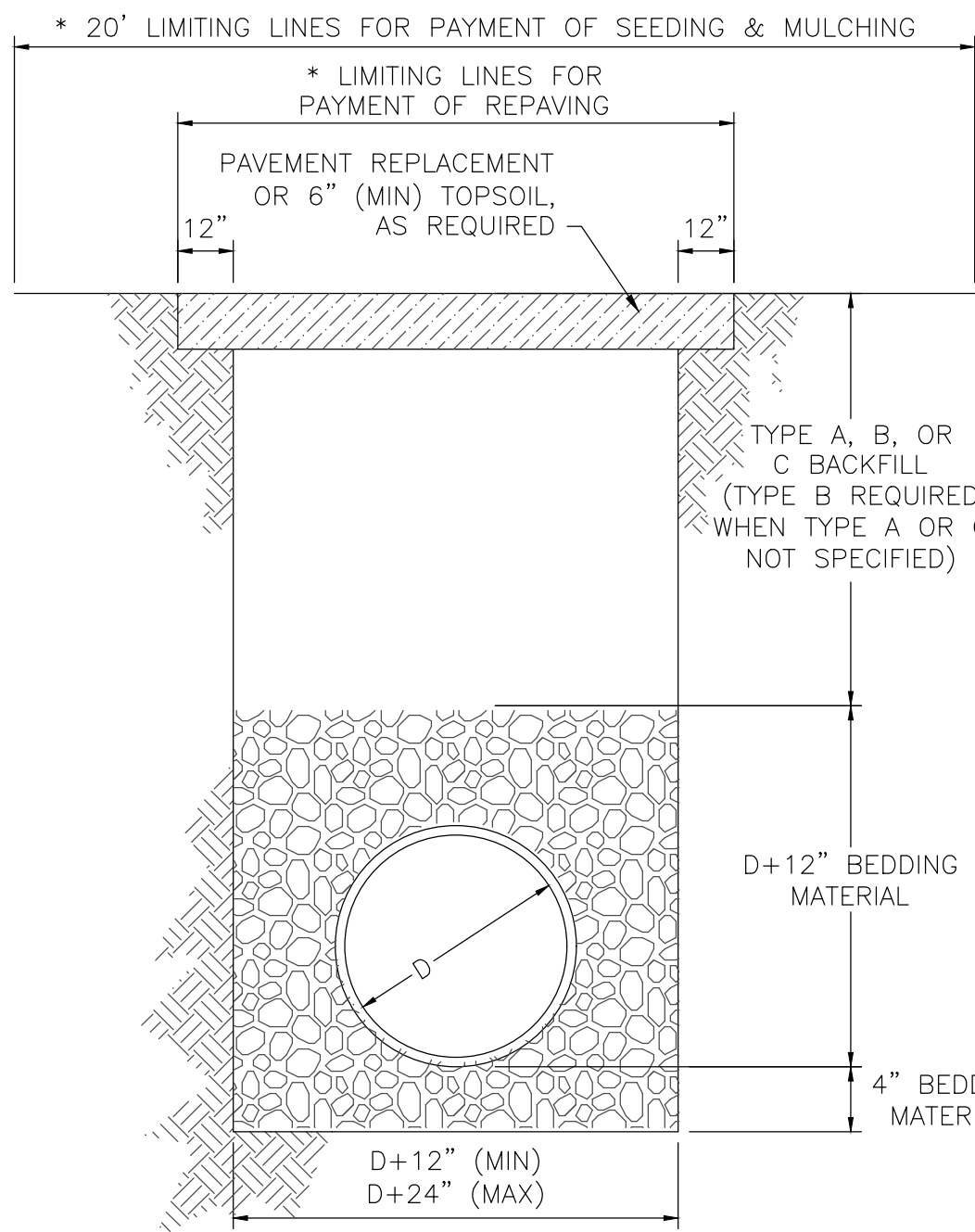
- NOTES (DETAIL 1):
- FOUNDATION: WHERE TRENCH BOTTOM IS UNSTABLE, CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER & REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWER & OTHER GRAVITY-FLOW APPLICATIONS", LATEST EDITION, AS AN ALTERNATIVE & AT THE DISCRETION OF THE ENGINEER, TRENCH BOTTOM MAY BE STABILIZED USING WOVEN GEOTEXTILE FABRIC.
  - BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, & INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  - HAUNCHING & INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, & INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  - UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MIN. BEDDING THICKNESS SHALL BE 4" FOR 4"-24" & 42"-48" PIPE & 6" FOR 30"-36" PIPE.
- UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MIN. BEDDING THICKNESS SHALL BE 4" FOR 4"-24" & 42"-48" PIPE & 6" FOR 30"-36" PIPE.
- HAUNCHING & INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III, & INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MIN. RECOMMENDED TRENCH WIDTHS SHALL BE AS FOLLOWS:

NOMINAL Ø	MIN. WIDTH
4"	21"
6"	23"
8"	25"
10"	28"
12"	31"
15"	34"
18"	39"
24"	48"
30"	66"
36"	78"
42"	83"
48"	89"
60"	102"

5. THE EXCAVATED TRENCH WIDTH TWELVE INCHES (12") ABOVE THE CONDUIT MAY BE INCREASED WITHOUT EXTRA COMPENSATION.
- MINIMUM COVER: MIN. RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE LOADING CONDITIONS ARE AS FOLLOWS. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE FROM TOP OF PIPE TO GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	MIN. COVER
H25 (FLEXIBLE PAVEMENT)	12" **
H25 (RIGID PAVEMENT)	12"
E80 RAILWAY	24"
HEAVY CONSTRUCTION	48"

\*\* TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT SECTION.

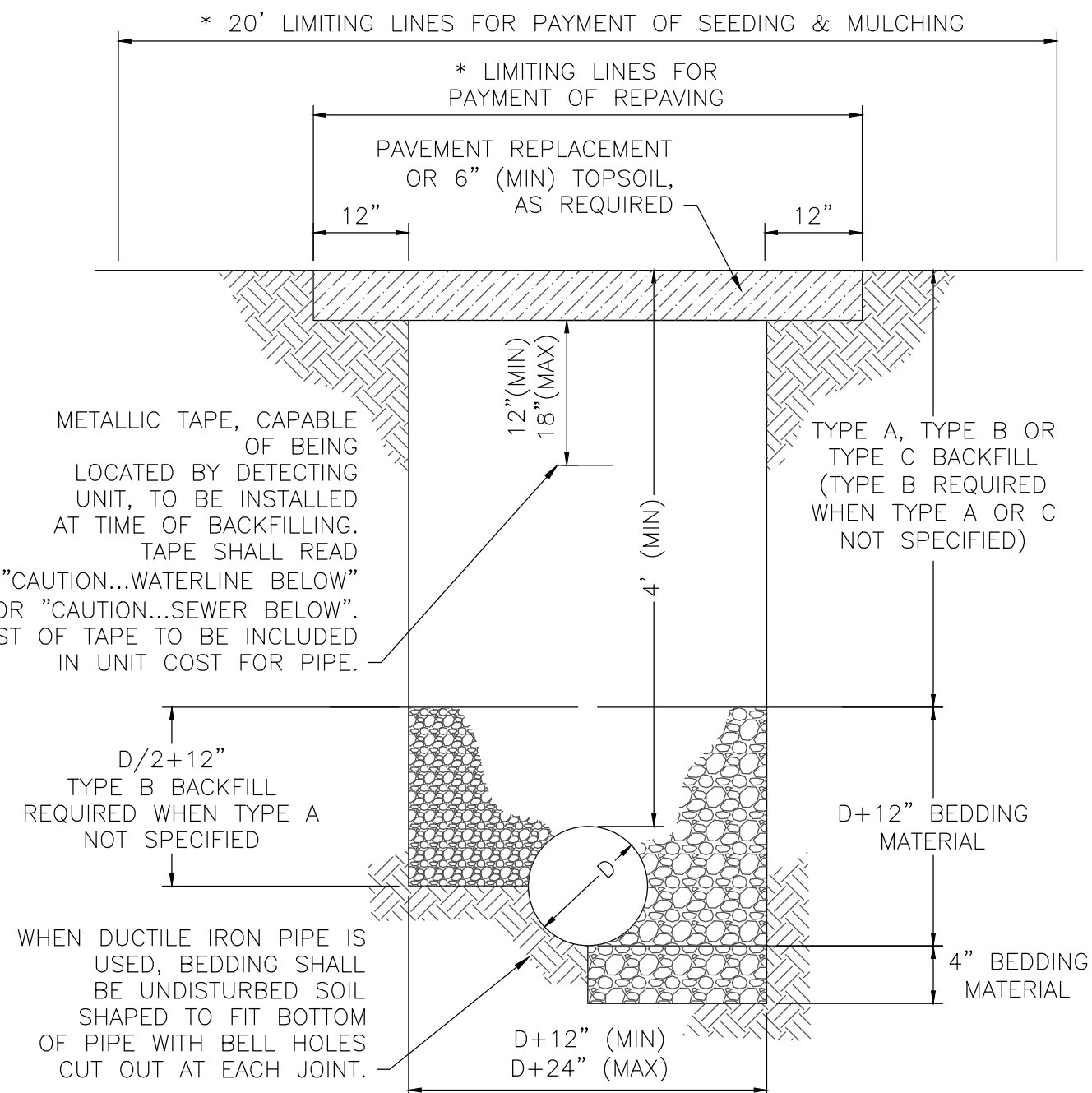


\* LIMITING LINES FOR PAYMENT APPLY ONLY WHEN CONTRACT PROVIDES FOR UNIT PRICE PAYMENT OF PAVEMENT REPLACEMENT AND SEEDING & MULCHING.

TYP. TRENCH  
FOR PVC  
STORM & SANITARY PIPE  
NOT TO SCALE

2

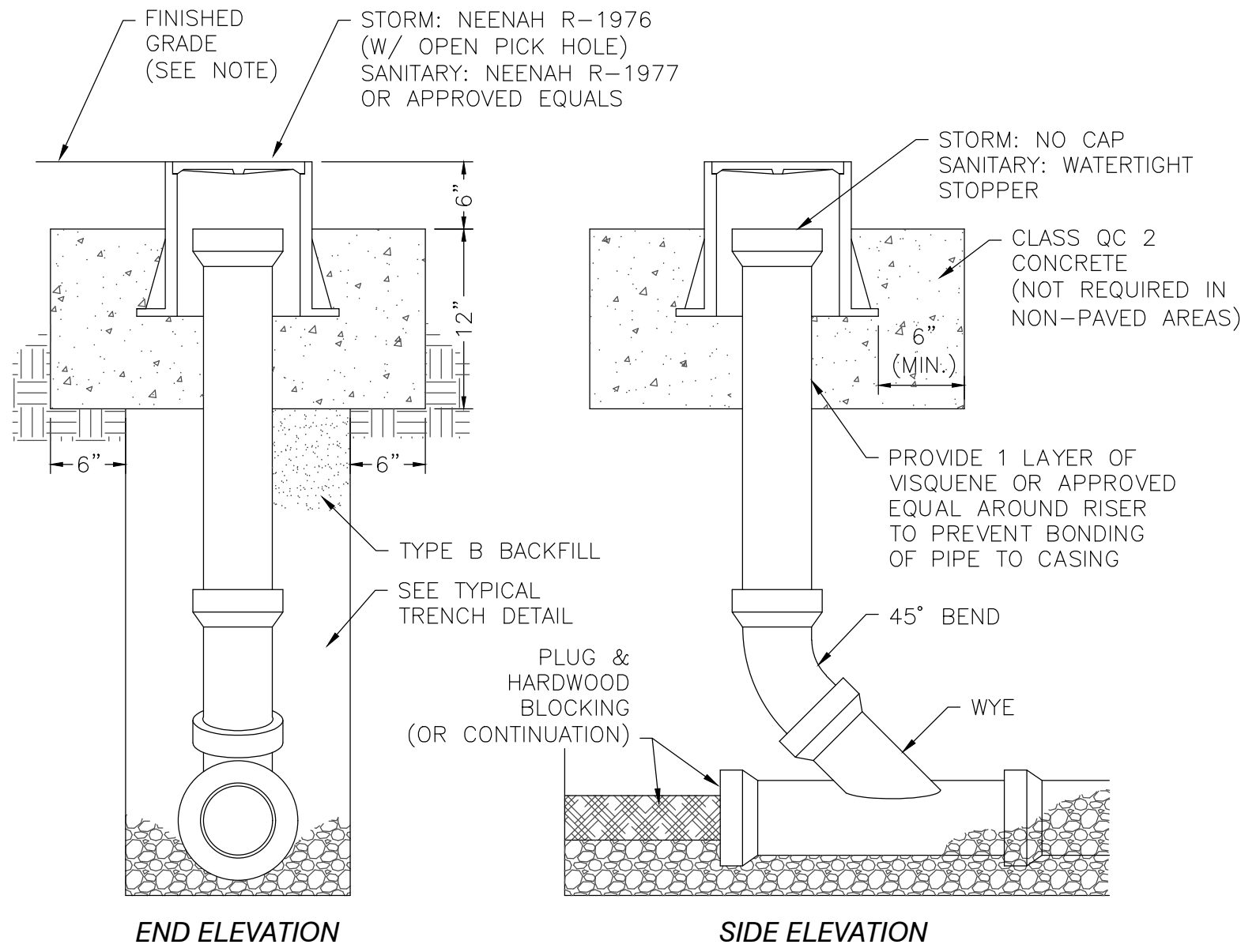
- NOTES (DETAILS 2 & 3):
- ITEM NUMBERS REFER TO STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS.
  - AGGREGATE FOR BEDDING IS NO. 57, NO. 6, NO. 67, NO. 68, OR NO. 7, ITEM 703.
  - TYPE A BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL AS SPECIFIED IN ITEM 304, GRADE A. TYPE A BACKFILL SHALL BE USED WHEN THE TRENCH IS 5' OR LESS FROM ANY PAVED OR GRAVEL SURFACE, OR BENEATH THE PAVEMENT OR GRAVEL. COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 203.
  - TYPE B BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 2" ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH, OR FROZEN MATERIAL, COMPACTED TO 95% OF ITS MAXIMUM LABORATORY DRY WEIGHT.
  - TYPE C BACKFILL SHALL BE NATURAL SOIL FREE FROM STONES LARGER THAN 6" ACROSS THEIR GREATEST DIMENSION, TOPSOIL, VEGETATION, DEBRIS, RUBBISH, OR FROZEN MATERIAL, COMPACTED TO 90% OF ITS MAXIMUM LABORATORY DRY WEIGHT. WHEN APPROVED BY THE ENGINEER, STONES NO LARGER THAN ONE CUBIC FOOT MAY BE DEPOSITED AT LEAST 3' ABOVE THE TOP OF THE PIPE.
  - THE EXCAVATED TRENCH WIDTH 12" ABOVE THE CONDUIT MAY BE INCREASED WITHOUT EXTRA COMPENSATION.
  - RIGID PIPE SHALL BE DUCTILE IRON, THICKNESS CLASS 53, PRESSURE RATING 350. FLEXIBLE PIPE SHALL BE PVC C-900 DR14 FOR SIZES UP TO 12" AND PVC C-905 DR18 FOR LARGER SIZES.
  - WHEN CALLED FOR ON THE CONSTRUCTION DRAWINGS, ENCASEMENT SHALL BE CLASS C CONCRETE.
  - SECTIONS ARE SYMMETRICAL ABOUT THE CENTERLINE.
  - GRANULAR BEDDING AND BACKFILL SHALL NOT BE REQUIRED FOR DUCTILE IRON PIPE UNLESS WITHIN LIMITS REQUIRING GRANULAR BACKFILL FOR ROADS AND DRIVEWAYS.
  - COVER OVER PIPE SHALL BE AS SPECIFIED ON PLANS. UNLESS OTHERWISE SPECIFIED, ROOF DRAINS SHALL HAVE 30" MIN. COVER AND SANITARY SEWER SERVICES SHALL HAVE 48" MIN. COVER.



\* LIMITING LINES FOR PAYMENT APPLY ONLY WHEN CONTRACT PROVIDES FOR UNIT PRICE PAYMENT OF PAVEMENT REPLACEMENT AND SEEDING & MULCHING.

TYP. TRENCH FOR WATER MAINS  
& SEWER FORCE MAINS  
NOT TO SCALE

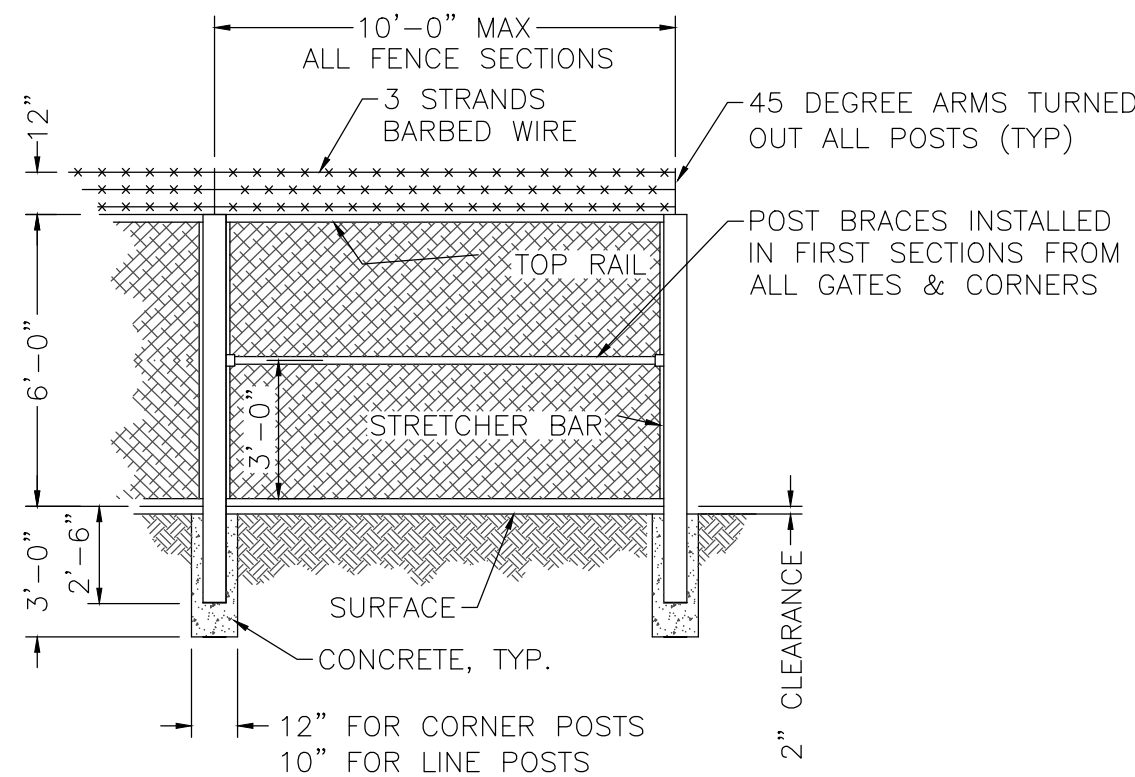
3



NOTE: CLEANOUT TOP OF CASTING SHALL BE SET FLUSH WITH FINISHED GRADE IN PAVEMENT AREAS OR 2" MIN. TO 4" MAX. ABOVE FINISHED GRADE IN NON-PAVED AREAS.

CLEANOUT  
NOT TO SCALE

4



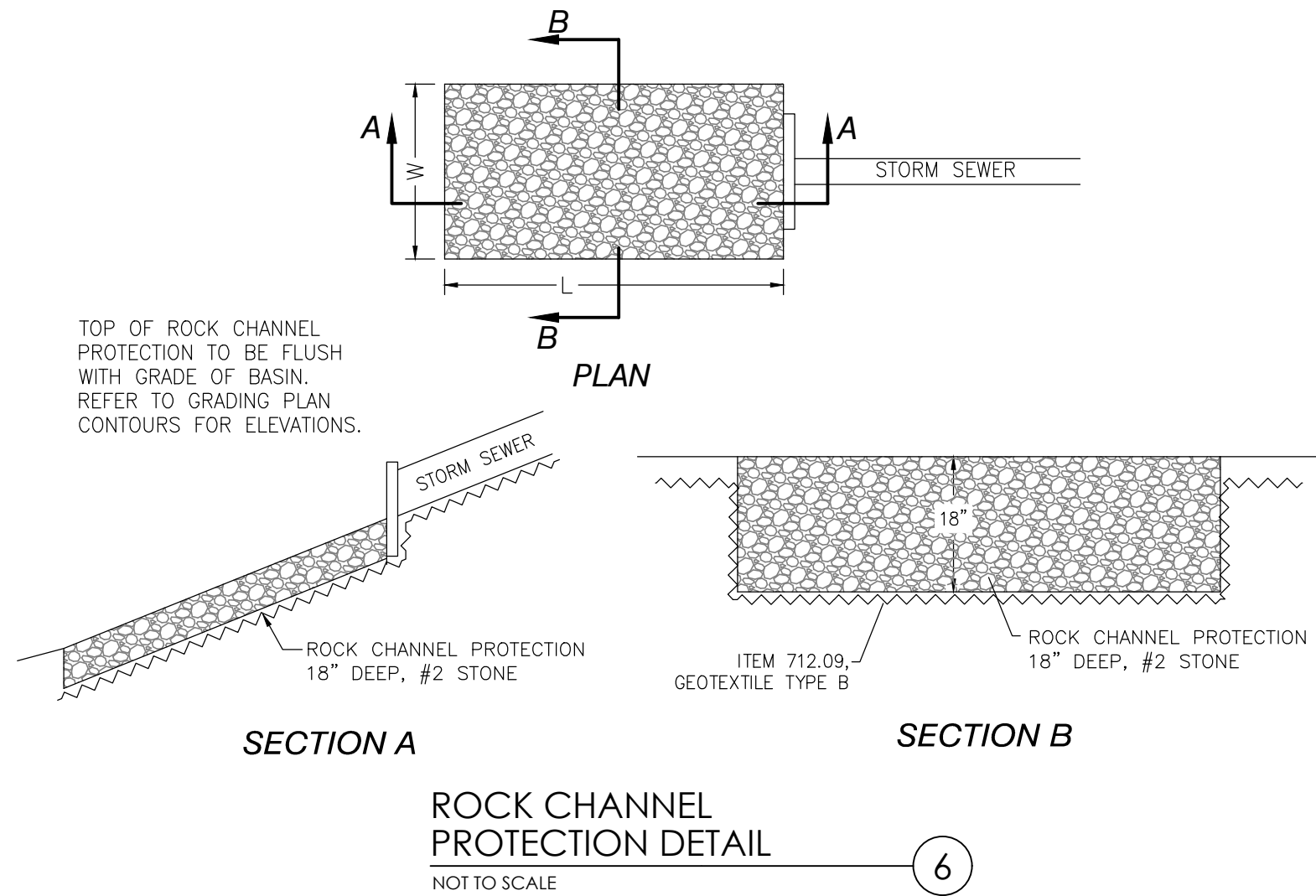
POSTS/RAILS SHALL BE AS FOLLOWS:  
BRACE RAILS - 1 5/8" DIA.  
LINE POSTS - 2 1/2" DIA.  
CORNER POSTS - 2 1/2" DIA.

BARBED WIRE SHALL MEET ASTM A 121, TYPE Z, CLASS 3 GALVANIZING, AT 0.80 OUNCES PER SQUARE FOOT OF SURFACE.

CONNECT TO EX. FENCE WHERE APPLICABLE.

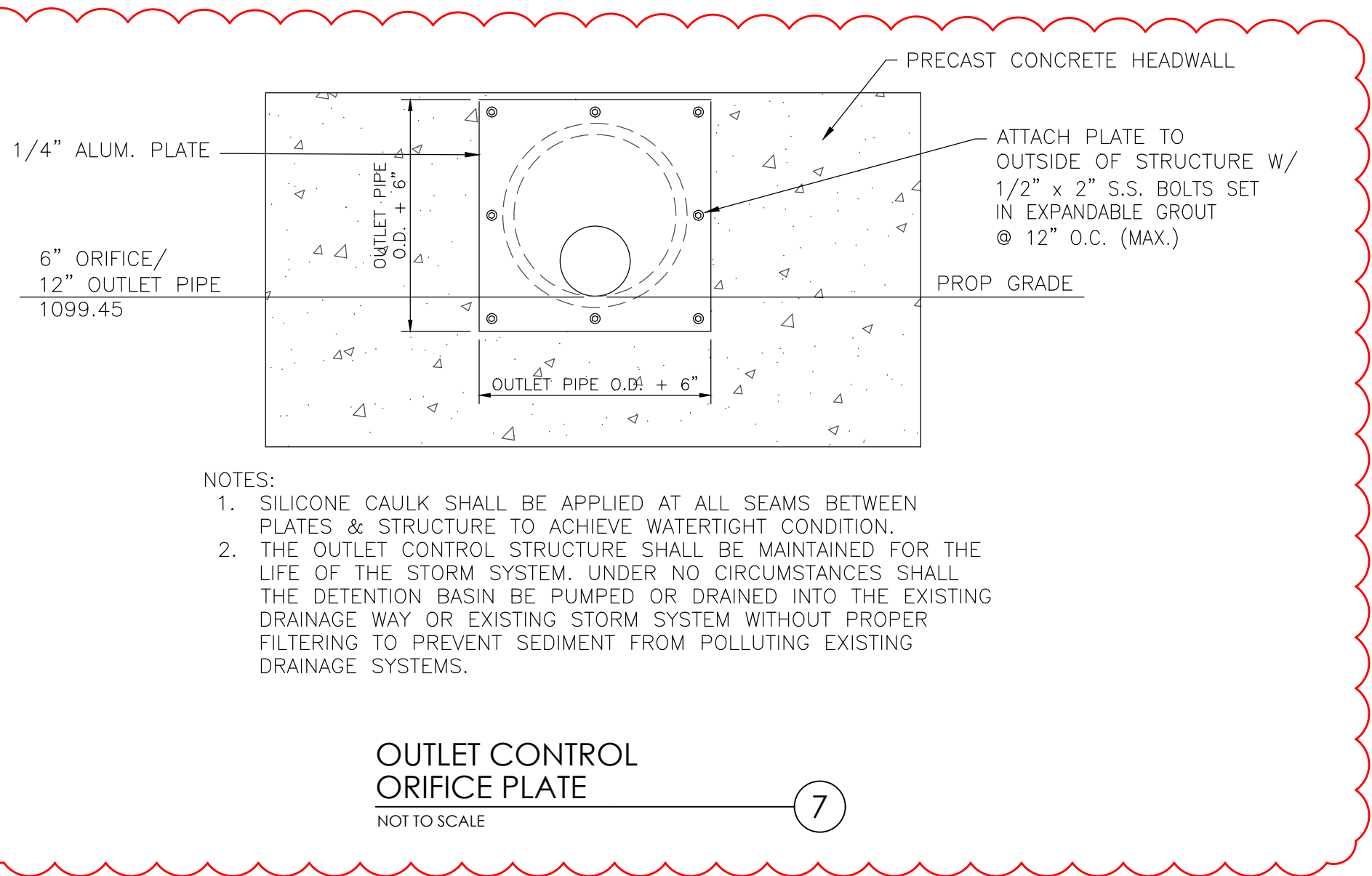
FENCE  
NOT TO SCALE

5



ROCK CHANNEL  
PROTECTION DETAIL  
NOT TO SCALE

6



- NOTES:
- SILICONE CAULK SHALL BE APPLIED AT ALL SEAMS BETWEEN PLATES & STRUCTURE TO ACHIEVE WATERTIGHT CONDITION.
  - THE OUTLET CONTROL STRUCTURE SHALL BE MAINTAINED FOR THE LIFE OF THE STORM SYSTEM. UNDER NO CIRCUMSTANCES SHALL THE DETENTION BASIN BE PUMPED OR DRAINED INTO THE EXISTING DRAINAGE WAY OR EXISTING STORM SYSTEM WITHOUT PROPER FILTERING TO PREVENT SEDIMENT FROM POLLUTING EXISTING DRAINAGE SYSTEMS.

OUTLET CONTROL  
ORIFICE PLATE  
NOT TO SCALE

7

**DOT-200023  
ODOT - EATON  
OUTPOST**

5656 US-127 Eaton, Ohio 45320

MARK	DATE	DESCRIPTION
2	01/07/22	ADDENDUM 1
1	12/10/21	BID SET
-	11/12/21	PERMIT SET

PROJECT NO: **DOT-200023**  
DATE: **12/10/21**  
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SHEET TITLE

**SITE DETAILS  
(CONT.)**

**C501**

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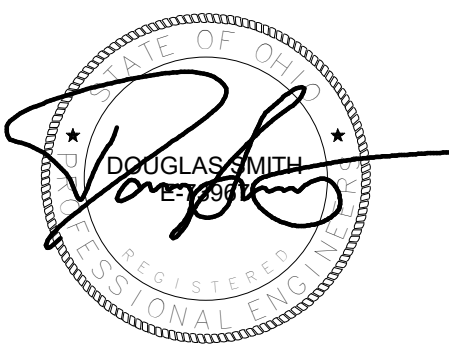
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Zanesville, Ohio 43701  
740-450-1640

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DOT-200023 ODOT -  
EATON OUTPOST

CONSTRUCTION DOCUMENTS

5656 US-127 Eaton, Ohio 45320

2	01/07/22	Addendum 001
1	12/17/21	Revision 1 Permit/Bid Set
	12/10/21	Bid Set
	11/12/21	Permit Set
MARK	DATE	DESCRIPTION

PROJECT NO: DOT-200023  
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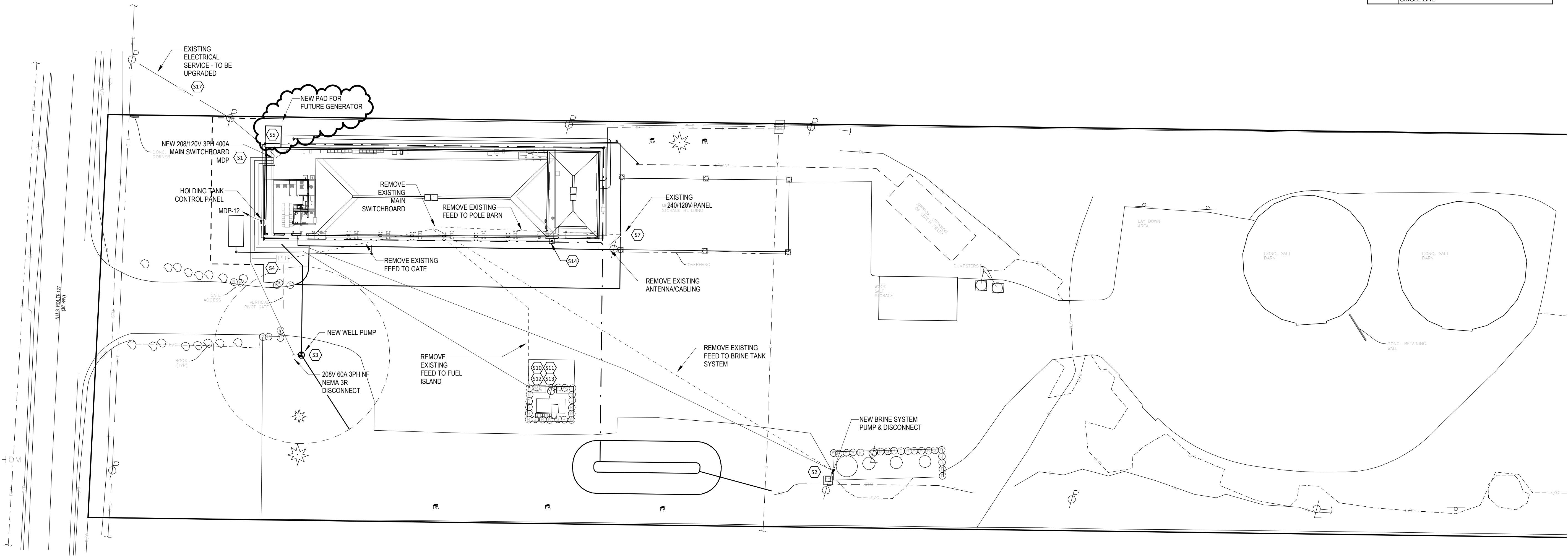
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SHEET TITLE

ELECTRICAL SITE  
UTILITY PLAN

ESU

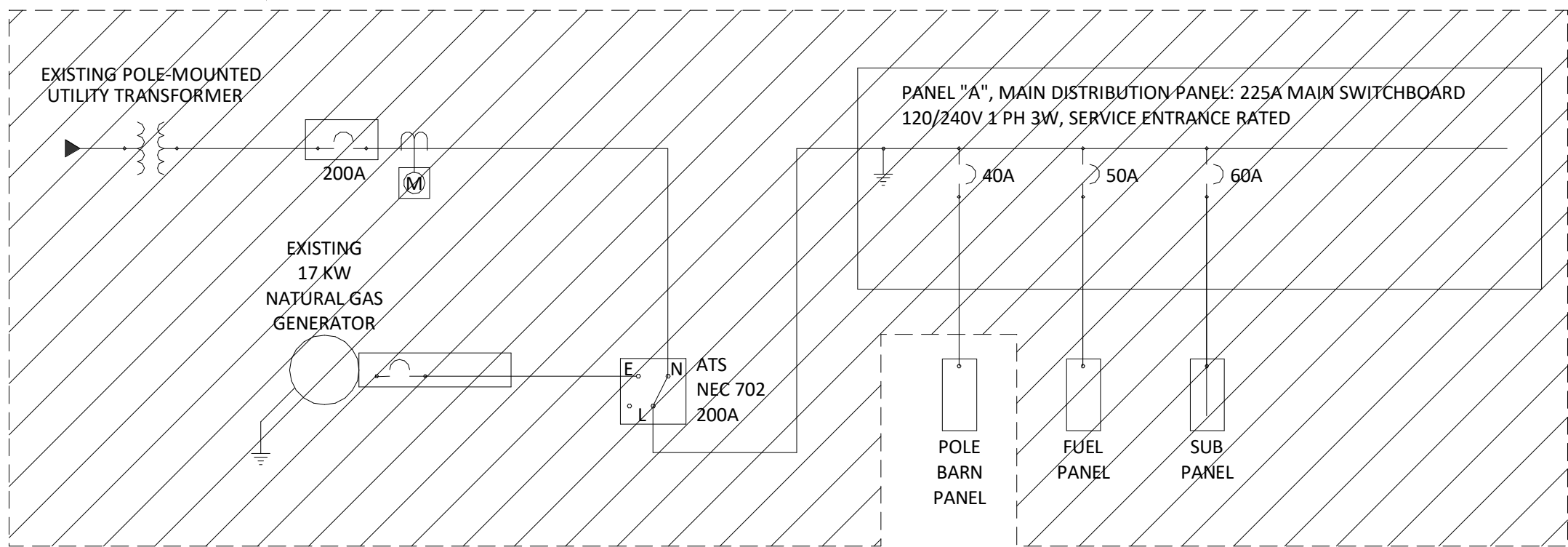
PLAN NOTES	
S1	SERVICE UPGRADE - WIRE & TRANSFORMER REPLACEMENT BY UTILITY. REMOVE ALL REMAINING FEEDS TO FORMER MAIN DISTRIBUTION PANEL AND PROVIDE NEW SERVICE ENTRANCE FEEDER OVERHEAD TO NEW METER SOCKET & CT CABINET PER UTILITY'S REQUIREMENTS. NEW METER & CT'S BY UTILITY. PROVIDE FEED TO NEW MAIN DISTRIBUTION PANEL - SEE FEEDER SCHEDULE FOR FURTHER INFORMATION.
S2	COORDINATE FINAL LOCATION WITH OWNER IN FIELD - PROVIDE 30A NF NEMA 3R DISCONNECT SWITCH.
S3	NEW WELL PUMP, 208V, 3-PH, 5 HP. RUN (3) #10 AND (1) #10 GND IN 3/4" CONDUIT AND PROVIDE 30A NF NEMA 3R DISCONNECT SWITCH.
S4	EXISTING SECURITY GATE. RUN (2) #10 AND (1) #10 GND IN 1" CONDUIT. CIRCUIT EL-1-26.
S5	(1) 2" SPARE CONDUIT FROM MEP AREA TO GENERATOR PAD & FOR FUTURE GENERATOR CONNECTION.
S6	EXISTING 240/120V PANEL IN POLE BARN. PROVIDE NEW FEEDER FROM NEW STEP-UP TRANSFORMER IN NEW OUTPOST BUILDING AS SHOWN ON FEEDER SCHEDULE.
S10	EXISTING FUEL STATION POLE LIGHT. RUN (2) #10 AND (1) #10 GND IN 1" CONDUIT. CIRCUIT EL-1-26.
S11	EXISTING GAS PUMP WITH INTEGRAL DISC SWITCH. WIRE THROUGH SHUTOFF CONTACTOR IN READY ROOM. RUN (2) #8 AND #8 GND IN 1" CONDUIT. CIRCUIT EL-1-28. PROVIDE SEAL-OFFS PER NEC 514.9.
S12	EXISTING FUEL STATION CARD READER. RUN (2) #8 AND (1) #8 GND IN 1" CONDUIT. CIRCUIT EL-1-12.
S13	EXISTING DIESEL PUMP WITH INTEGRAL DISC SWITCH. WIRE THROUGH SHUTOFF CONTACTOR IN READY ROOM. RUN (2) #8 AND #8 GND IN 1" CONDUIT. CIRCUIT EL-1-30. PROVIDE SEAL-OFFS PER NEC 514.9.
S14	NEW FUEL E-STOP. RUN (2) #10 AND (1) #10 GND IN 1" CONDUIT. CIRCUIT EL-1-34. PROVIDE WEATHER-RESISTANT PUSHBUTTON KILL SWITCH MOUNTED ON BOLLARD AT LOCATION SHOWN. WITHIN 100' OF FUEL PUMPS BUT NOT WITHIN 20' OF PUMPS - VERIFY FINAL LOCATION & MOUNTING HEIGHT WITH OWNER IN FIELD. WIRE TO FUEL SHUT OFF CONTACTOR LOCATED IN THE READY ROOM AS REQUIRED. LABEL PUSHBUTTON 'FUEL SHUT OFF'. PROVIDE A MINIMUM 12"X12" SQUARE ENGRAVE RED LABEL WITH 4" HIGH WHITE LETTERS MOUNTED ON BOLLARD ABOVE SWITCH. PROVIDE CONTROL CIRCUITRY SO THE FUEL SHUTOFF SYSTEM CANNOT BE RESET AT THE READY ROOM. COORDINATE EXACT LOCATION IN FIELD.
S17	NEW SERVICE ENTRANCE FEEDER. REFER TO SINGLE LINE.



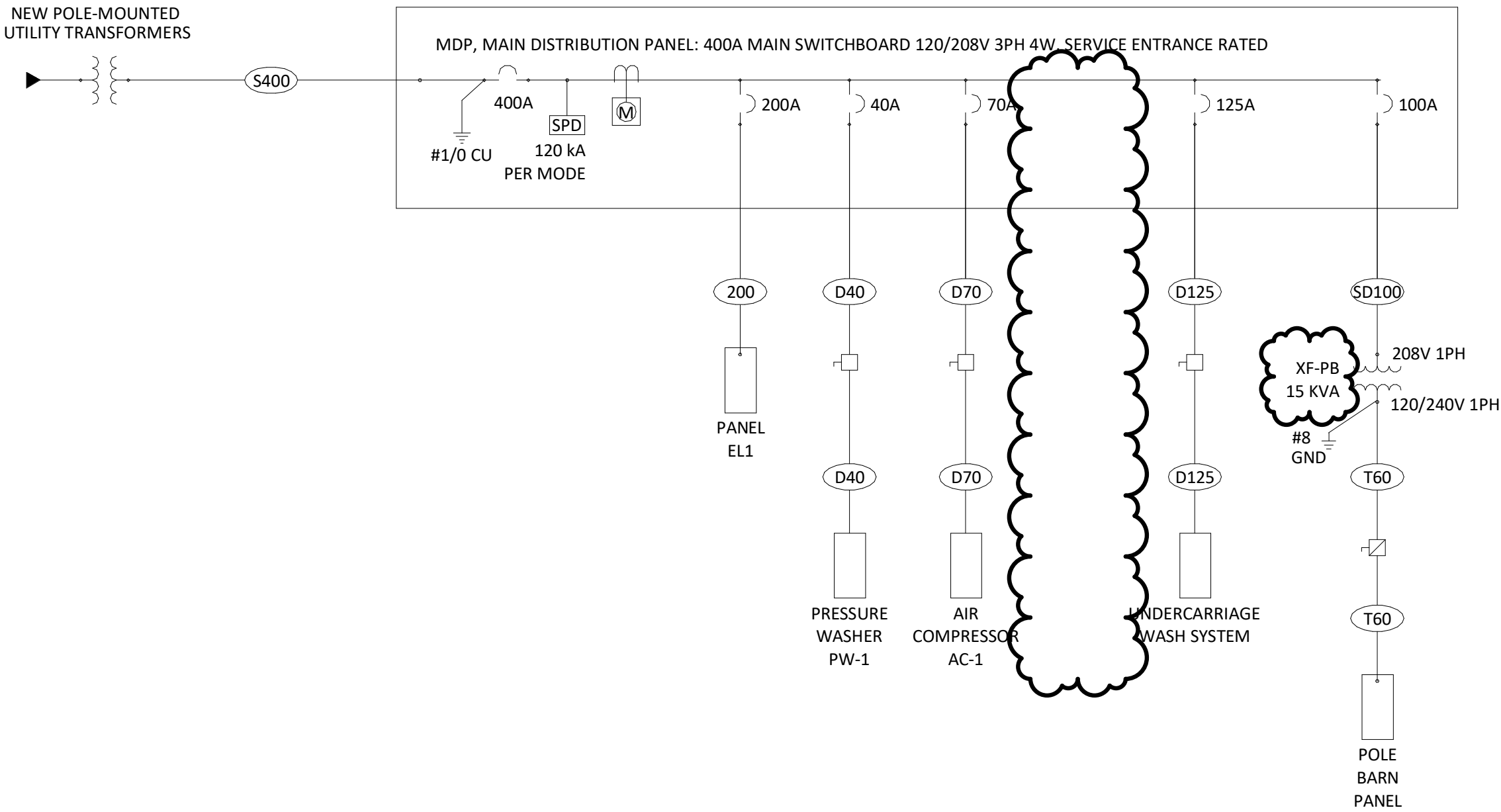
1 ESU  
ELECTRICAL SITE UTILITY PLAN  
1" = 30'-0"  
0 30' 60' 120'



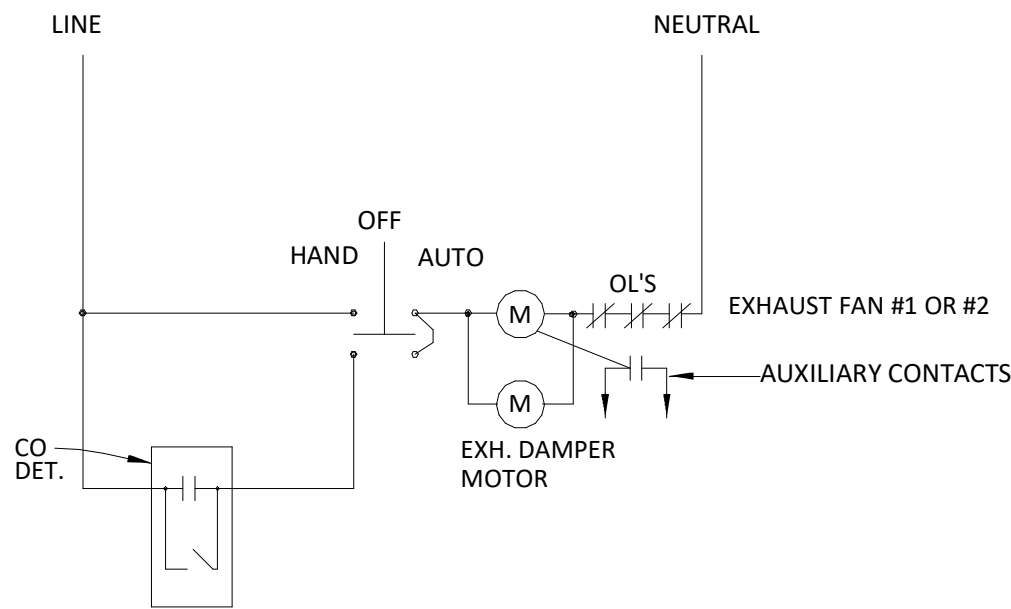
UTILITY TO REMOVE EXISTING POLE-MOUNTED UTILITY TRANSFORMER & PROVIDE NEW. REMOVE EXISTING MAIN DISTRIBUTION PANEL & ASSOCIATED PANELS, NEW MAIN PANEL WILL BE LOCATED INSIDE NEW OUTPOST BUILDING



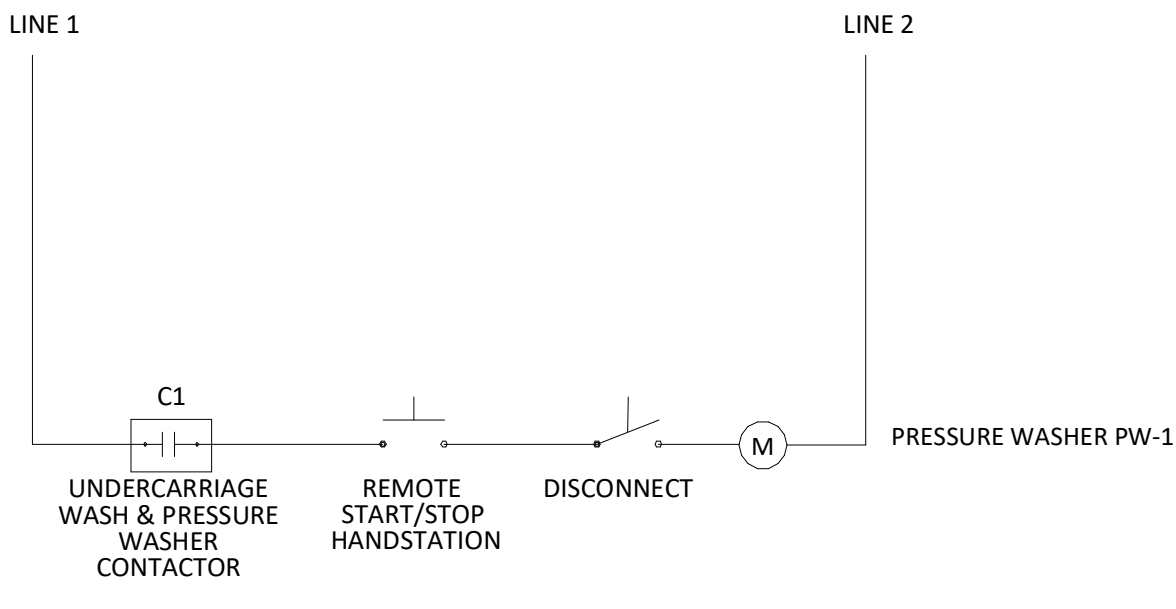
DEMO ELECTRICAL SINGLE-LINE DIAGRAM



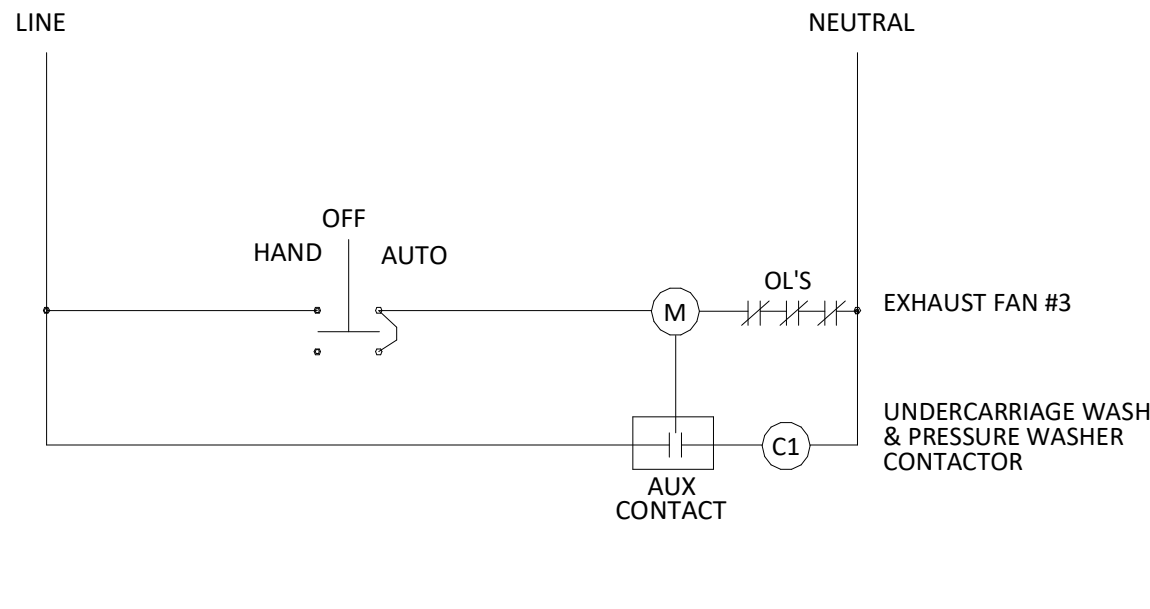
NEW ELECTRICAL SINGLE-LINE DIAGRAM



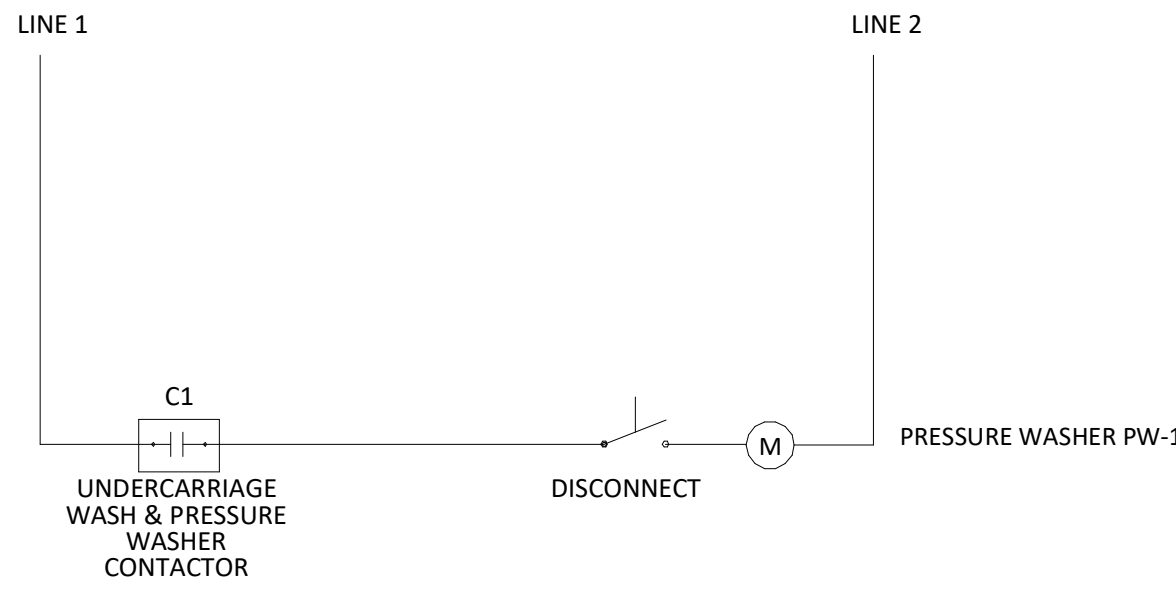
EF-1 & EF-2 CONTROL DIAGRAM



PRESSURE WASHER  
CONTROL DIAGRAM

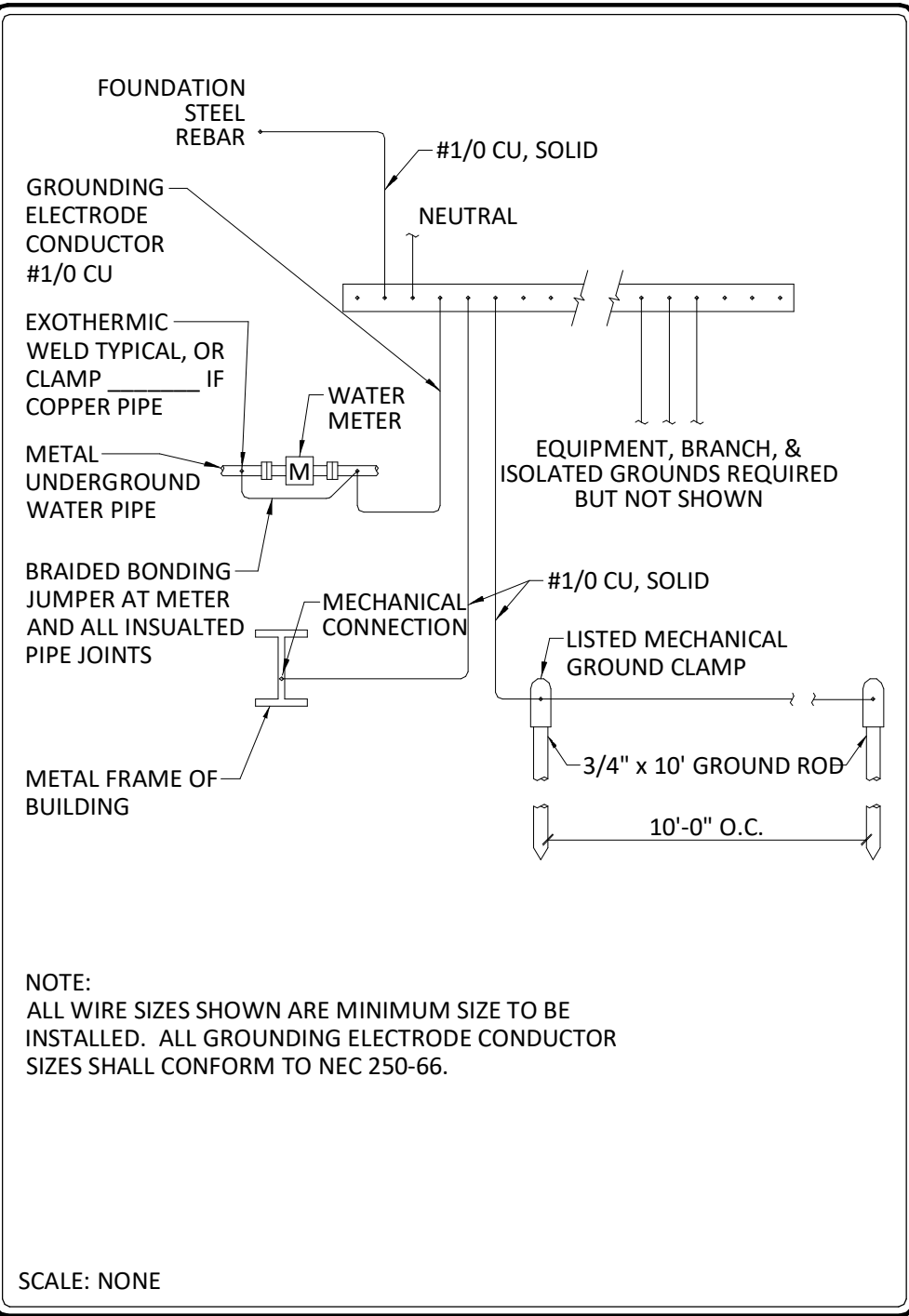


EF-3 CONTROL DIAGRAM



UNDERCARRIAGE WASH  
CONTROL DIAGRAM

GROUNDING ELECTRODE SYSTEM



NOTE:  
ALL WIRE SIZES SHOWN ARE MINIMUM SIZE TO BE  
INSTALLED. ALL GROUNDING ELECTRODE CONDUCTOR  
SIZES SHALL CONFORM TO NEC 250-66.

SCALE: NONE

FEEDER SCHEDULE

FEEDER TAG #	COPPER (CU) FEEDER				ALUMINUM (AL) FEEDER				NOTE
	NUMBER OF SETS	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	NUMBER OF SETS	NUMBER OF CONDUCTORS	WIRE SIZE	GROUND SIZE	

SERVICE ENTRANCE CONDUCTORS 3-PHASE 4-WIRE									
S400	1	4	600	-	4"	-	-	N/A	-

EQUIPMENT FEEDER 3-PHASE 4-WIRE									
D400	1	3	600	3	3.5"	1	3	900	1
D350	1	3	500	3	3.5"	1	3	750	1
D300	1	3	350	4	2.5"	1	3	500	2
D250	1	3	250	4	2.5"	1	3	400	2
D225	1	3	4/0	4	2.5"	1	3	350	2
D200	1	3	3/0	6	2"	1	3	250	4
D175	1	3	2/0	6	1.5"	1	3	4/0	4
D150	1	3	1/0	6	1.5"	1	3	3/0	4
D125	1	3	1	6	1.25"	1	3	2/0	4
D110	1	3	1	6	1.25"	1	3	2/0	4
D100	1	3	2	8	1.25"	1	3	1/0	6
D90	1	3	2	8	1.25"	-	-	N/A	-
D80	1	3	4	8	1"	-	-	N/A	-
D70	1	3	4	8	1"	-	-	N/A	-
D60	1	3	6	10	1"	-	-	N/A	-
D50	1	3	6	10	1"	-	-	N/A	-
D45	1	3	6	10	1"	-	-	N/A	-
D40	1	3	8	10	0.75"	-	-	N/A	-
D35	1	3	8	10	0.75"	-	-	N/A	-
D30	1	3	10	10	0.75"	-	-	N/A	-

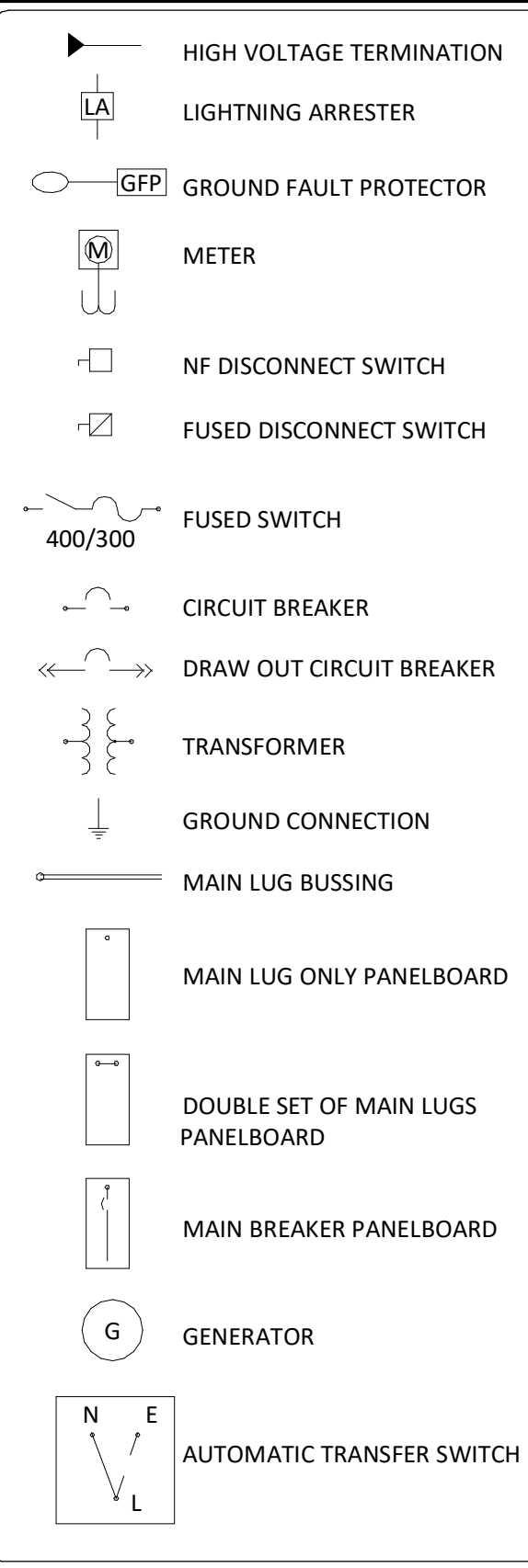
PANEL OR EQUIPMENT FEEDER 3-PHASE 4-WIRE									
400	1	4	600	3	3.5"	1	4	900	1
350	1	4	500	3	3.5"	1	4	750	1
300	1	4	350	4	3"	1	4	500	2
250	1	4	250	4	2.5"	1	4	400	2
225	1	4	4/0	4	2.5"	1	4	350	2
200	1	4	3/0	6	2"	1	4	250	4
175	1	4	2/0	6	2"	1	4	4/0	4
150	1	4	1/0	6	2"	1	4	3/0	4
125	1	4	1	6	1.5"	1	4	2/0	4
110	1	4	2	6	1.25"	1	4	2/0	4
100	1	4	2	8	1.25"	1	4	1/0	6
90	1	4	2	8	1.25"	-	-	N/A	-
80	1	4	4	8	1.25"	-	-	N/A	-
70	1	4	4	8	1.25"	-	-	N/A	-
60	1	4	6	10	1.25"	-	-	N/A	-
50	1	4	6	10	1"	-	-	N/A	-
45	1	4	6	10	1"	-	-	N/A	-
40	1	4	8	10	0.75"	-	-	N/A	-
35	1	4	8	10	0.75"	-	-	N/A	-
30	1	4	10	10	0.75"	-	-	N/A	-

XFMR SECONDARY CONDUCTORS 1-PHASE 3-WIRE									
T60 15KVA	1	2	2	6	1"	-	-	-	1

EQUIPMENT FEEDER 1-PHASE 2-WIRE									
SD100	1	2	2	8	1"	1	3	1/0	6

NOTES:  
1. FEEDER SHALL BE INSTALLED IN 1-HOUR FIRE RATED ASSEMBLY WHERE USED AS FEEDER CIRCUIT FOR EMERGENCY SYSTEM(NEC 700.9D).  
2. FEEDER SHALL BE INSTALLED IN 2-HOUR FIRE RATED ASSEMBLY (NEC 695.6). MI CABLE OR SUITABLE FIRE-RESISTANT CABLE MAY BE USED AT CONTRACTORS OPTION.

SINGLE LINE LEGEND



2	01/07/22	Addendum 001
1	12/17/21	Revision 1 Permit/Bid Set
	12/10/21	Bid Set
	11/12/21	Permit Set
MARK	DATE	DESCRIPTION

PROJECT NO: DOT-200023  
DATE: 12/17/2021  
DRAWN BY: DEL

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SINGLE LINE DIAGRAM