

CITY OF MINNETRISTA



CITY COUNCIL CONSENT AGENDA ITEM

Subject: Application from Zenanko Family LLC for site plan review at 9385 County Road 26.

Prepared By: Nickolas Olson, Senior City Planner
Through: David Abel, Community Development Director

Meeting Date: July 20, 2026

Overview: Zenanko Family LLC (the “Applicant”) working with Lynda McClung of Network Connex has made an application for a site plan review of the installation of 2 equipment shelters for electrical equipment and 2 generators for backup power at 9385 County Road 26; AP: Agriculture Preserve Zoning District; PID# 06-117-24-32-0001 (the “Property”).

Background: The Property contains a single-family dwelling and several outbuildings. The Applicant has been working with Network Connex on a location for 2 equipment shelters for electrical equipment and 2 generators for backup power. The equipment would support digital signals traversing through the fiber optic cable in the county road. Network Connex will be leasing a portion of the property for the proposed use. Public utilities are a permitted use in the Agriculture Preserve Zoning District and fiber internet serves the greater public. The proposed location of the shelters and generators conforms to the required setbacks for accessory uses. The equipment will be located in a fenced area and the fencing will have beige slats added for screening.

Discussion: All new uses or major changes to existing uses in any zoning district that do not require any other type of land use application shall require site plan review by the planning commission and city council. A "major change" shall be defined as any modification which increases the size of the building(s) on the site or the use by more than 25 percent.

The city council shall review the proposed site plan on the basis of the information and documentation submitted by the applicant and any other information available to it. The review is to determine whether it is consistent with the requirements of the city code, including the applicable performance standards and the purpose of the zoning district in which the property is located. Following the review, the city council should determine if the site plan be approved, approved with conditions or denied.

Conclusion: The City Council should review the staff report and the Applicant’s request to determine if the use is consistent with city requirements. After review, the City Council should consider the entire record before it prior to making a motion. Along with making a

Mission Statement:

The City of Minnetrista will deliver quality services in a cost effective and innovative manner and provide opportunities for a high quality of life while protecting natural resources and maintaining a rural character.

motion, findings of fact should be established which support the motion. Findings of fact based on the information submitted by the Applicant may be as follows:

1. Public utilities are an allowed use in the Agriculture Preserve Zoning District;
2. The proposed use does not have an effect upon the health, safety, and general welfare of the city regarding the factors of noise, glare, odor, electrical interferences, vibration, dust, or other nuisances;
3. The proposed use does not pose any discernable fire or safety hazards;
4. The proposed use does not change existing or anticipated traffic conditions or parking facilities on adjacent streets and land;
5. The proposed use does not have an effect on surrounding properties, including valuation, aesthetics and scenic views, land uses, or character and integrity of the neighborhood;
6. The proposed use does not have any added impact on governmental facilities or services, including roads, sanitary sewer, water and police and fire;
7. The proposed use does not have an effect on sensitive environmental features including lakes, surface and underground water supply and quality, wetlands, slopes, flood plains, or soils; and
8. The request is consistent with the Minnetrista Comprehensive Plan.

Recommended Action: Motion to adopt a resolution approving the requested site plan review of the installation of 2 equipment shelters for electrical equipment and 2 generators for backup power at 9385 County Road 26, based on the findings of fact outlined in the staff report and subject to the following conditions:

1. The Applicant shall obtain all necessary permits and approvals from the City and other applicable entities with jurisdiction prior to any construction;
2. The Applicant shall be responsible for all fees incurred by the city in review of this application; and
3. Any other conditions deemed necessary by the City Council.

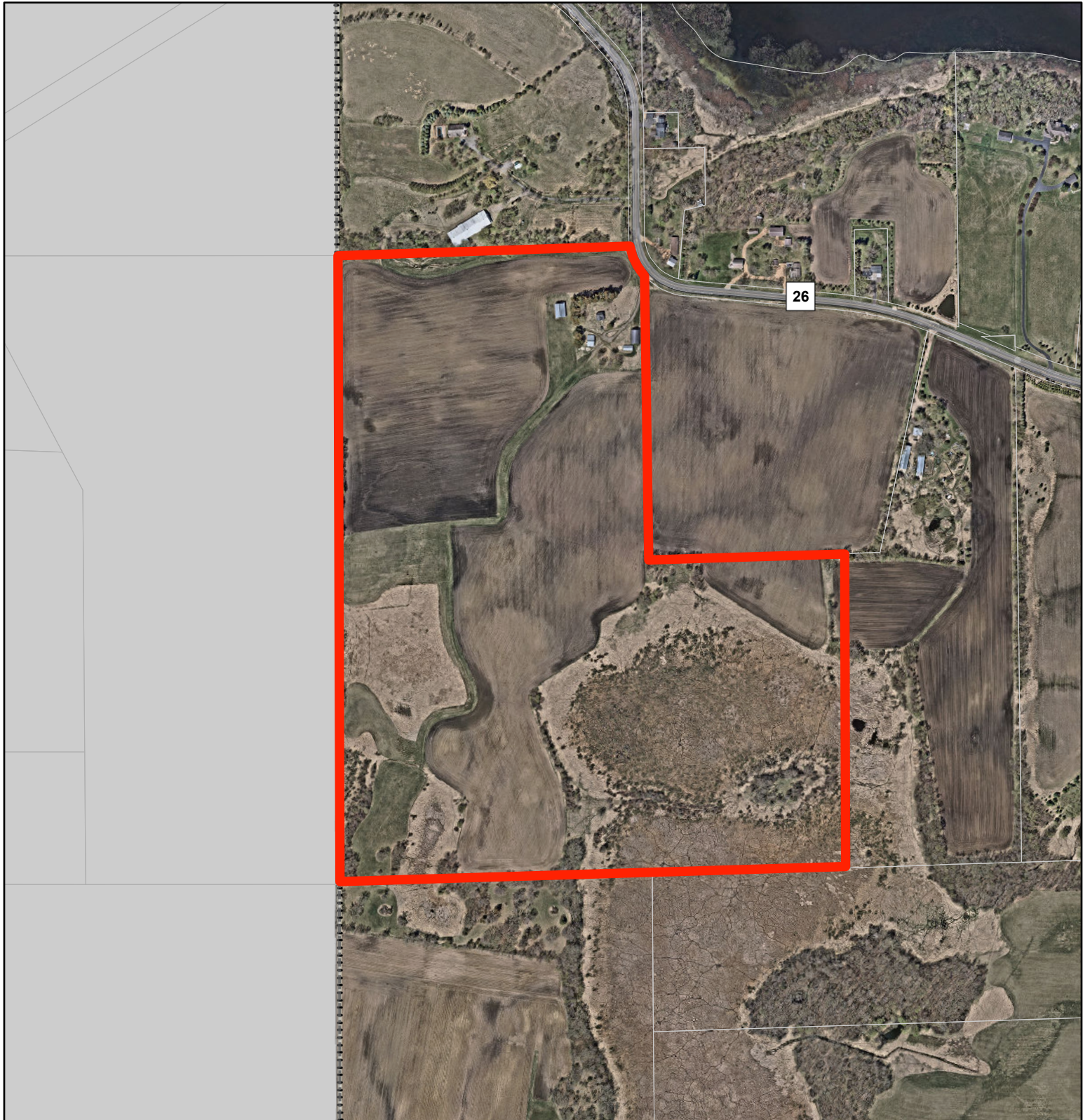
Attachments:

1. Location Map
2. Applicant Narrative
3. Lease Area Survey
4. Site Plan
5. Res. No. 78-26 Approving Site Plan at 9385 County Road 26

Mission Statement:

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9385 County Road 26



1 in = 800 Ft

-  City Boundary
-  City Mask
- Address Labels



Site Plan Review - Written Statements

2. Written statements providing information regarding your proposal. Please provide a separate answer for each of the lettered items listed below (answers must be submitted in both hard copy and electronic form--.txt files or MS Word format):

a. A listing of contact information including name(s), address(es) and phone number(s) of: the owner of record, authorized agents or representatives, engineer, surveyor, and any other relevant associates;

Owner of record: Zenanko Family LLC – Contact: George Zenanko, 612-791-7930 / george@heroofficesystems.com or Justin Zenanko, 612.505.6063 / justin@synerfuse.com. Address: 9385 County Road 26, Maple Plain, MN 55359

Authorized agents: Lynda McClung – Network Connex (IIG Authorized Agent), 714-328-3385 / lmcclung@networkconnex.com. Address: 16029 Arrow Hwy, Suite A, Irwindale, CA 91706

Engineer: Network Connex – Andrew Miller, P.E., 443-367-0003. Address: 7151 Columbia Gateway Dr., Suite A, Columbia, MD 21046

Surveyor: Cole Neset - Neset Land Surveys, 701-235-0199 / cneset@nesetsurveys.com. Address: 5306 51st Ave S, Suite A, Fargo, ND 58104

b. A listing of the following site data: Address, current zoning, parcel size in acres and square feet, property identification number(s) (PID), and current legal description(s);

Address: 9385 CO RD No 26, Minnetrista, MN 55359

PID: 06-117-24-32-001

Legal Description: District: 36 City, Municipality, Township: MINNETRISTA Subdivision Name: UNPLATTED 06 117 24 Sec/Twn/Rng/Mer: SEC 06 QTR 32 TWN 117 RNG 24

Brief Description: UNPLATTED 06 117 24 W 25 ACRES OF SE 1/4 OF SW 1/4 AND THE W 1/2 OF SW 1/4 EX ROAD IRREGULAR Recorder's Map Ref: MB:40606

c. A narrative regarding the history of the property (current and past uses) and any pre-application discussions with staff;

Current Use: Single Family Residential

Zoning: R-1 Low Density Single Family Residence

Lynda McClung discussed the proposed project and type of Planning review required with Nick Olson, Senior City Planner. Nick determined that a Site Plan Review application and review would be required.

d. A specific written description of the proposed use(s). Incorporate information describing how the use will work on the proposed site including proposed site changes, existing open spaces, landscaping, traffic circulation, transition areas to adjacent properties, individual uses for existing and proposed structures, and effects on natural areas (wetlands, forests, etc.) both on-site and in the general vicinity of the project;

The proposed use for the proposed project is commercial.

The proposed project is to install (2) 36' L x 12' W x 10'-4" H equipment shelters for electrical equipment and (2) generators for back-up power inside a chain link fence enclosure.

The shelters are an unmanned facility that houses electronic equipment to support digital signals traversing the fiber optic cable that will be installed along the County Road under a separate project.

The current proposed project lease area location is plowed open space, north of the residence on the property.

The proposed screening is beige slats on the proposed chain link fence. The project area will be next to existing trees that are between this property and the northern adjacent property.

e. Address how the proposed use would affect the health, safety, and general welfare of the city - including but not limited to the factors listed below. For all potential adverse effects, please address how the conflict(s) and/or disturbance(s) would be avoided or mitigated.

- Noise, glare, odor, electrical interference, vibration, dust, etc.;
The only noise, besides during construction, will be from the generators which are for back-up power in case there is a power outage. The generators will turn on for maintenance once a month for about 20-30 minutes. This will be scheduled to occur during the day.
The project will have its own power meter, so there will be no electrical interference.
There will be no glare, odor, vibration, or dust caused by the shelters or generators.
- Possible fire and safety hazards;
The electrical equipment inside the equipment shelters and diesel generators will have possible minor fire and safety hazards. A new 911 address has been requested to assist emergency responders to find the project location if 911 is called.
- Existing and anticipated traffic conditions;

The access for the project will be off the existing access driveway for the property. There will be limited traffic since the project area will only have maintenance vehicles visiting the project area once constructed.

- Parking facilities on adjacent streets and land;
N/A – no additional parking is required.
- The effect on surrounding properties including valuation, aesthetics, scenic views, current and possible land uses, character, and integrity of the neighborhood;
The shelters and generators will be screened with beige slats added to the chain link fence. The height of the shelters will not block any scenic view. The character and integrity of the neighborhood will be maintained.
- Impact on governmental facilities and services including roads, parks, schools, sanitary sewer system, water facilities & supply, and police & fire protection;
The project will have no significant impact on the roads and no impact on parks, schools, sewers, and water. The impact on police and fire protection is limited due to the enclosed equipment shelters and back-up power use for the generators.
- Effect on sensitive environmental features including lakes, surface and underground water supply, wetlands, slopes, flood plains, and soils; and
There is no effect on these sensitive environmental features. The project is not located on any wetlands, slopes, or flood plains.
- Any other factors as found relevant by the city.
None at this time.

Respectfully,

Lynda McClung

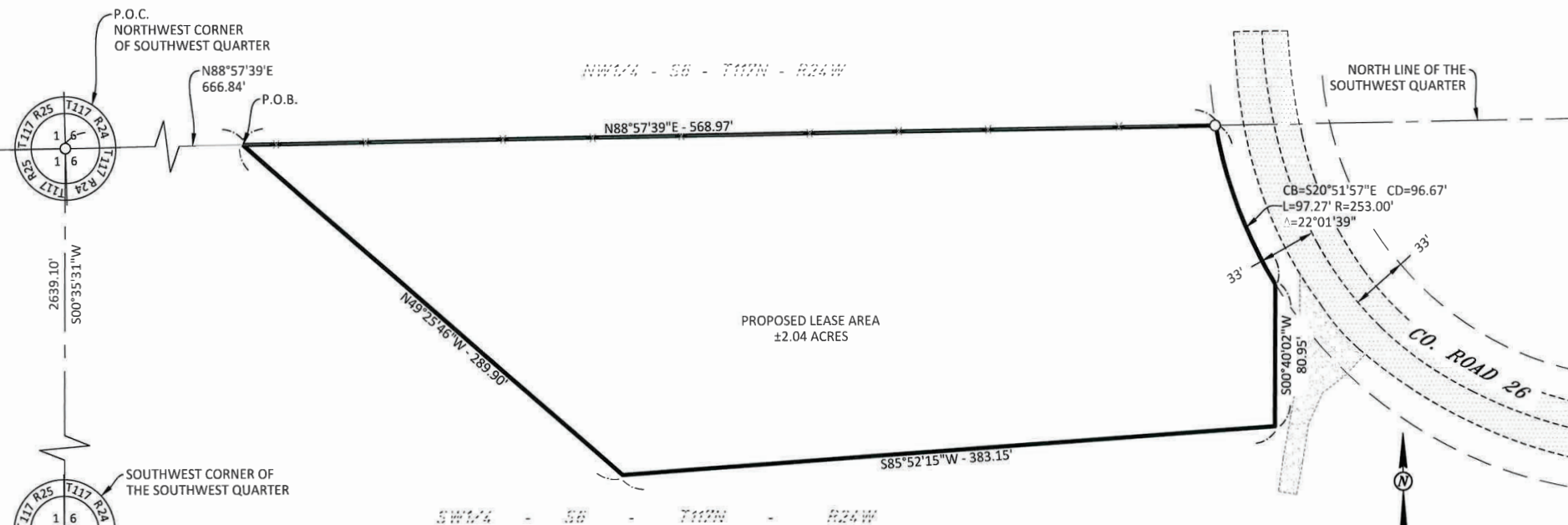
Project Manager

LMcClung@networkconnex.com

714-328-3385

03/25/26 01:33:01 PM Z:\Neset Shared Files\Cole Projects\2026 Projects\26037 - Network Connex -Minnetrista, MN- Topo & staking\Minnetrista Tower Legal Cert.dwg

CERTIFICATE OF SURVEY
PART OF THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 117 NORTH, RANGE 24 WEST
OF THE 5TH PRINCIPAL MERIDIAN CITY, HENNEPIN COUNTY, MINNESOTA



SURVEYORS CERTIFICATE

I COLE A. NESET HEREBY CERTIFY THAT THIS SURVEY, PLAN, AND/OR REPORT WAS PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

Cole A. Neset
COLE A. NESET
PROFESSIONAL LAND SURVEYOR
MINNESOTA LICENSE No. 49984

3-26-26
DATE:



STATE OF NORTH DAKOTA)
COUNTY OF CASS)

ON THIS 26th DAY OF march, 2026, BEFORE ME, A NOTARY PUBLIC WITHIN AND FOR SAID COUNTY AND STATE, PERSONALLY APPEARED COLE A. NESET, TO ME KNOWN TO BE THE PERSON DESCRIBED IN AND WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED THAT HE EXECUTED SAME AS THEIR FREE ACT AND DEED.

NOTARY PUBLIC, COUNTY: CASS STATE: NORTH DAKOTA

DESCRIPTION

PART OF THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 117 NORTH, RANGE 24 WEST OF THE 5TH PRINCIPAL MERIDIAN, HENNEPIN COUNTY, MINNESOTA MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING FROM THE NORTHWEST CORNER OF THE SOUTHWEST QUARTER OF SAID SECTION 6; THENCE N88°57'39\"E

LEGEND	
O	MONUMENT FOUND
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
- - -	EX. EASEMENT
- - -	EX. PROPERTY LINE
- - -	PROPERTY BOUNDARY LINE
- - -	SECTION LINE
- x -	FENCE LINE
[Pattern]	ASPHALT AREA
[Pattern]	GRAVEL AREA

SURVEY INFORMATION

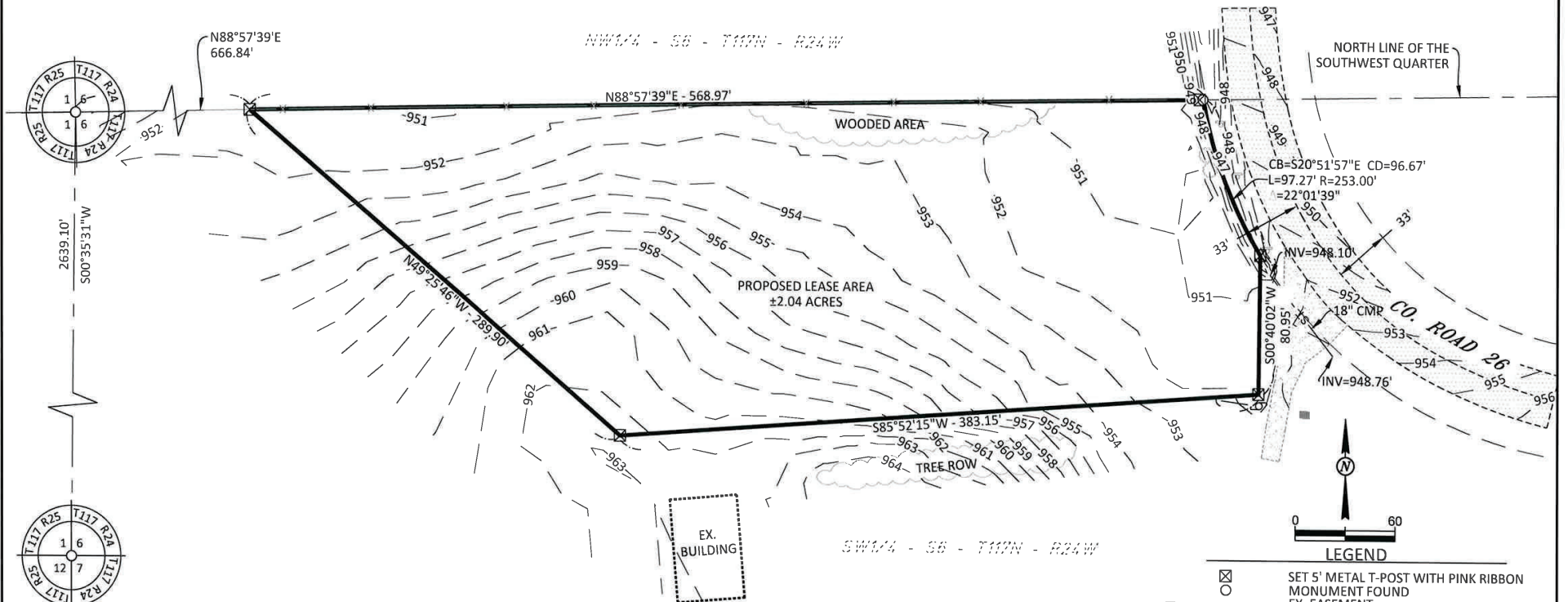
DATE OF SURVEY: 3-17-26
BASIS OF BEARING: HENNEPIN COUNTY COOR.
UNIT: US SURVEY FOOT

DRAWN BY: KRS
CHECKED BY: CAN
DATE: 3/23/26



03/25/26 01:45:35PM Z:\Neset Shared Files\Code Projects\2026_P\Projects\26037_Network Connex - Minnetrista, MN- Topo & staking\Minnetrista Tower Site.dwg

TOPOGRAPHIC SURVEY
PART OF THE SOUTHWEST QUARTER OF SECTION 6, TOWNSHIP 117 NORTH, RANGE 24 WEST
OF THE 5TH PRINCIPAL MERIDIAN CITY, HENNEPIN COUNTY, MINNESOTA



SURVEY INFORMATION

DATE OF SURVEY: 3-17-26
BASIS OF BEARING: HENNEPIN COUNTY COOR.
UNIT: US SURVEY FOOT

SURVEYORS CERTIFICATE

I COLE A. NESET HEREBY CERTIFY THAT THIS SURVEY, PLAN, AND/OR REPORT WAS PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

Cole A. Neset
COLE A. NESET
PROFESSIONAL LAND SURVEYOR
MINNESOTA LICENSE No. 49984

3-26-26
DATE:

LEGEND	
	SET 5' METAL T-POST WITH PINK RIBBON MONUMENT FOUND
	EX. EASEMENT
	EX. PROPERTY LINE
	PROPERTY BOUNDARY LINE
	SECTION LINE
	EX. CONTOUR
	STORM SEWER LINE
	FENCE LINE
	OVERHEAD ELECTRIC POLE
	GUY WIRE
	DECIDUOUS TREE
	SIGN
	ASPHALT AREA
	GRAVEL AREA

DRAWN BY: KRS
CHECKED BY: CAN
DATE: 3/20/26





Intermountain Infrastructure Group

SITE NUMBER: MN.1083.19POPDEL
SITE NAME: DELANO
SITE TYPE: NEW COMPOUND

CITY: MAPLE PLAIN
COUNTY: HENNEPIN
JURISDICTION: CITY OF MINNETRISTA

PROJECT SUMMARY

SITE ADDRESS:
9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359

PROPERTY OWNER CONTACT:
ZENANKO FAMILY LLC
9385 COUNTY ROAD 26,
MAPLE PLAIN, MN 55359

APPLICANT:
INTERMOUNTAIN INFRASTRUCTURE
GROUP, LLC
533 AIRPORT BLVD., SUITE 400
BURLINGAME, CA 94010
JEFF THORTON
(407) 951-9520

SITE COORDINATES & ELEVATION:
LAT: 44.970285
LONG: -93.763255
ELEVATION: 963'± AMSL (NAVD 88)

FACILITY OWNER CONTACT:
INTERMOUNTAIN INFRASTRUCTURE
GROUP, LLC
533 AIRPORT BLVD., SUITE 400
BURLINGAME, CA 94010
JEFF THORTON
(407) 951-9520

SITE SUMMARY

OCCUPANCY CLASSIFICATION: U (UNMANNED TELECOMMUNICATIONS FACILITY)
BUILDING TYPE: II-B
ZONING: AGRICULTURAL RURAL
APN: 06-117-24-32-0001

UTILITY PURVEYOR

POWER:
WRIGHT-HENNEPIN COOP ELECTRIC ASSN (763) 477-3000

PROJECT DESCRIPTION

THE PROJECT ENTAILS:

- INSTALL (1) NEW FENCED GRAVEL COMPOUND
- INSTALL (2) NEW EQUIPMENT SHELTERS
- INSTALL (2) NEW GENERATORS
- INSTALL (1) NEW CT RATED METER WITH TEST SWITCH AND 600A FUSED DISCONNECT
- INSTALL (1) NEW CT RATED METER WITH TEST SWITCH AND 400A FUSED DISCONNECT
- INSTALL CONDUIT AND CONDUCTORS FOR POWER TO FACTORY-INSTALLED ATS AND PANELS IN SHELTERS

CONSULTING TEAM

SAC/ZONING/PERMITTING:
NETWORK CONNEX
7151 COLUMBIA GATEWAY DR., SUITE A
COLUMBIA, MD 21046
CONTACT: LEIGH DUKATT
PHONE: (443) 367-0003

ELECTRICAL ENGINEERING:
NETWORK CONNEX
7151 COLUMBIA GATEWAY DR., SUITE A
COLUMBIA, MD 21046
CONTACT: NILMONI BHATTACHARYA, P.E.
PHONE: (443) 367-0003

ARCHITECTURAL/ENGINEERING:
NETWORK CONNEX
7151 COLUMBIA GATEWAY DR., SUITE A
COLUMBIA, MD 21046
CONTACT: ANDREW MILLER, PE
PHONE: (443) 367-0003

STRUCTURAL ENGINEERING:
NETWORK CONNEX
7151 COLUMBIA GATEWAY DR., SUITE A
COLUMBIA, MD 21046
CONTACT: ANDREW MILLER, PE
PHONE: (443) 367-0003

ACCESSIBILITY REQUIREMENTS

THE FACILITY IS UNMANNED AND NOT FOR CONTINUOUS HUMAN HABITATION. HANDICAPPED ACCESS IS NOT REQUIRED PER MINNESOTA BUILDING CODE 2020, SECTION 1103.2.4 (UTILITY BUILDINGS), SECTION 1103.2.7 (LIMITED ACCESS SPACES), AND SECTION 1103.2.9 (EQUIPMENT SPACES)

CODE COMPLIANCE

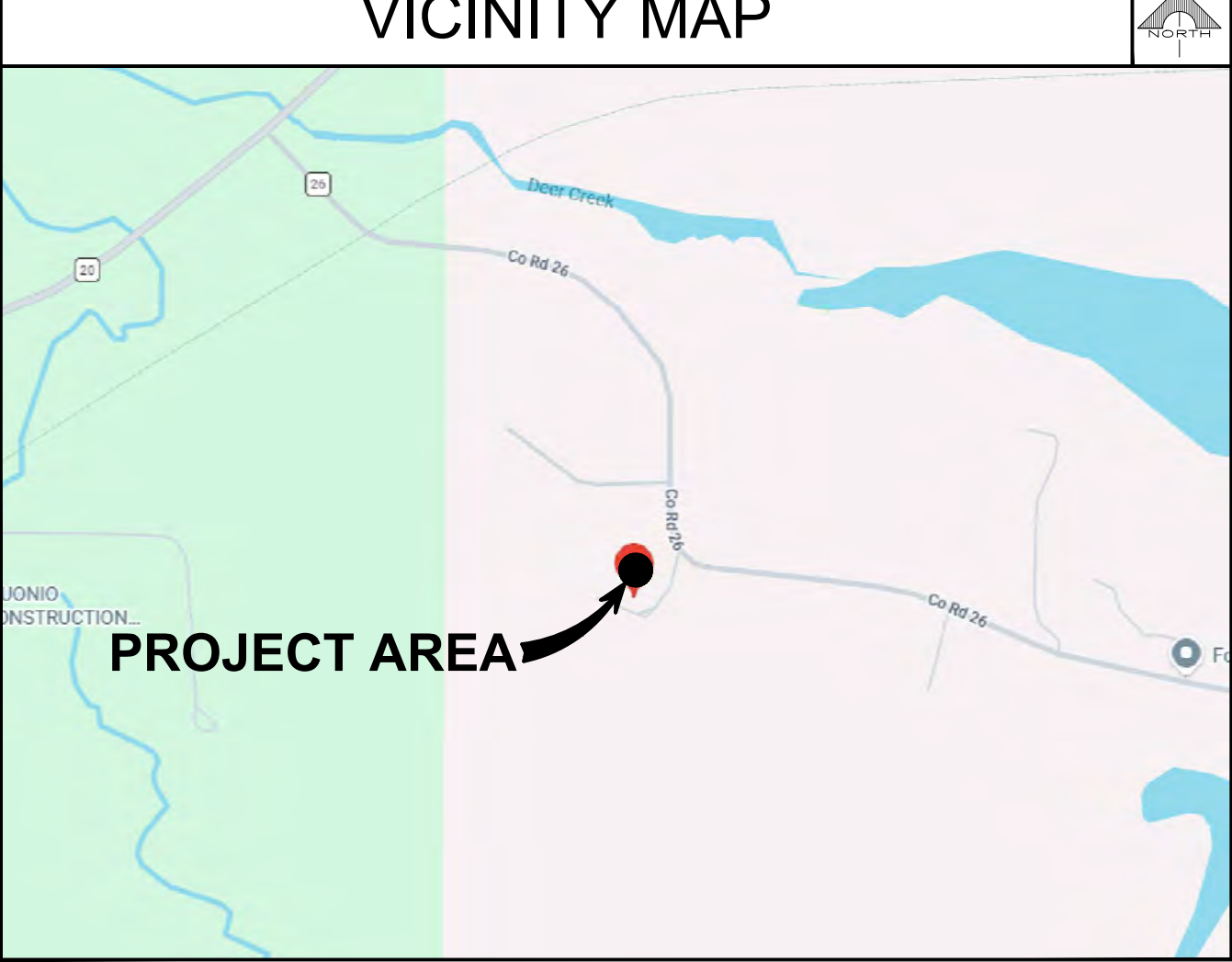
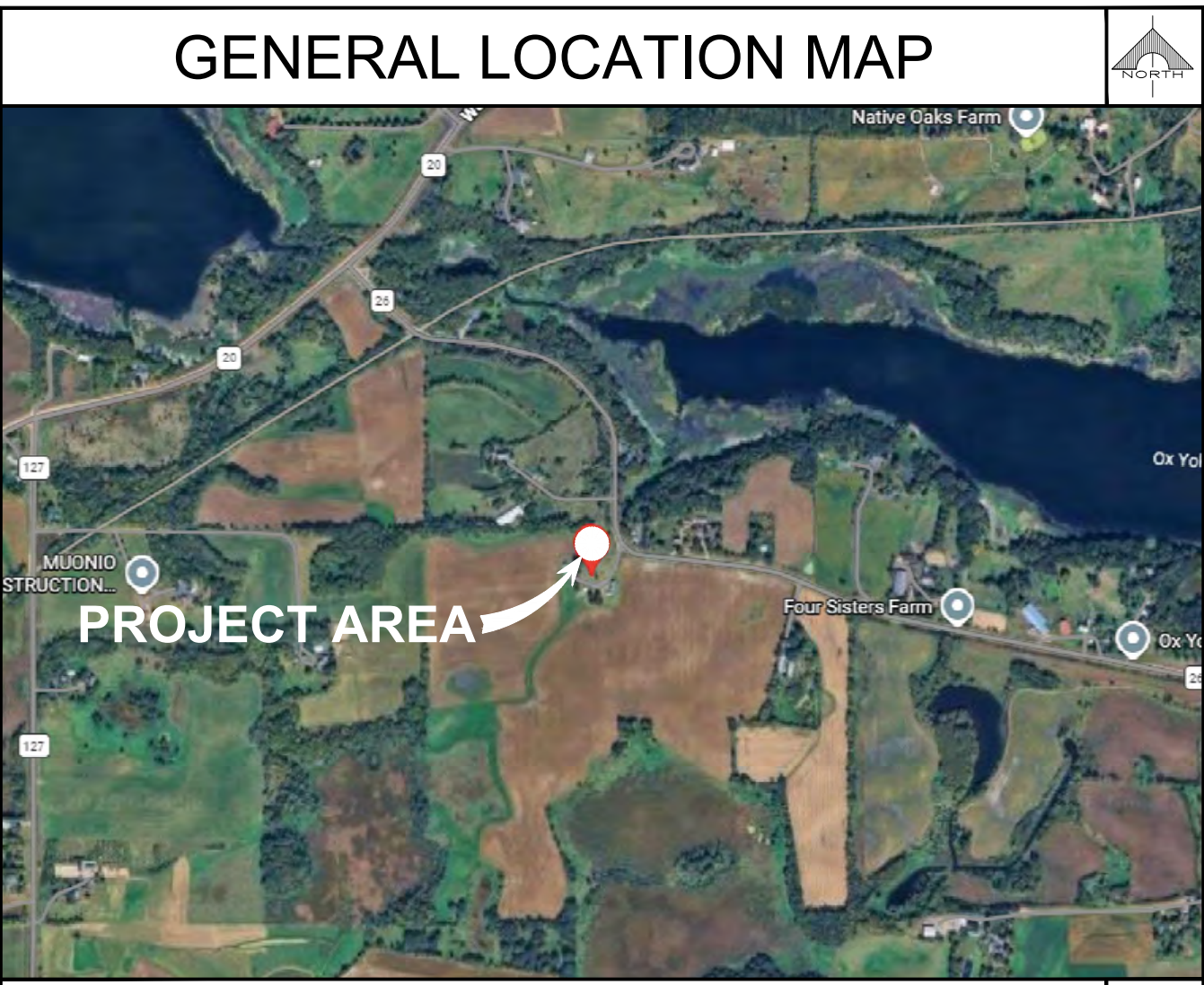
- MINNESOTA BUILDING CODE 2020
- MINNESOTA EXISTING BUILDING CODE 2020
- MINNESOTA ENERGY CODE 2020
- MINNESOTA ELECTRICAL CODE 2023
- MINNESOTA FIRE CODE 2020
- ANSI / TIA-222-H-2017
- LOCAL BUILDING CODE
- CITY / COUNTY ORDINANCES
- ASCE 7-16
- ACI 318-19
- AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION

APPROVALS

	PRINT NAME	SIGNATURE	DATE
LANDLORD:			
ZONING MGR:			
DEVELOP. MGR:			
CONST. MGR:			
PROJECT MGR:			
RF ENGINEER:			
OPERATIONS:			
SAC REP.:			
UTILITIES:			
REAL ESTATE MGR:			

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G-1	GROUNDING PLAN
G-2	GROUNDING DETAILS



DRIVING DIRECTION

FROM MINNEAPOLIS-SAINT PAUL INTERNATIONAL AIRPORT
GET ON MN-5 W/STATE HWY 5 W FROM GLUMACK DR., HEAD NORTHWEST ON GLUMACK DR., SLIGHT LEFT TOWARD NORTHWEST DR., TURN LEFT TOWARD NORTHWEST DR., CONTINUE ONTO NORTHWEST DR., AT THE TRAFFIC CIRCLE, CONTINUE STRAIGHT, MERGE ONTO GLUMACK DR., USE THE RIGHT 2 LANES TO MERGE ONTO MN-5 W/STATE HWY 5 W VIA THE RAMP TO I-494/BLOOMINGTON., TAKE I-494 W TO US-12 W IN WAYZATA. TAKE EXIT 19 B FROM I-494 W., MERGE ONTO MN-5 W/STATE HWY 5 W., MERGE ONTO I-494 W., TAKE EXIT 19 B FOR US-12 W TOWARD WAYZATA., USE ANY LANE TO TAKE THE CARLSON PKWY RAMP TO LINNER RD., FOLLOW US-12 W AND COUNTY RD 6 TO YOUR DESTINATION IN MINNETRISTA., MERGE ONTO US-12 W., TAKE THE COUNTY RD 6/WAYZATA BLVD EXIT TOWARD COUNTY RD., TURN RIGHT ONTO COUNTY RD 6/6TH AVE N., CONTINUE TO FOLLOW COUNTY RD 6, CONTINUE ONTO COUNTY RD 20, TURN LEFT ONTO COUNTY RD 26, TURN RIGHT, CONTINUE STRAIGHT, DESTINATION WILL BE ON THE RIGHT



PROJECT INFORMATION:

MN.1083.19POPDEL
DELANO
9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

CURRENT ISSUE DATE:

04/22/26

ISSUED FOR:

PRELIMINARY

REV.: DATE: DESCRIPTION: BY:

A	04/22/26	90% CD, ISSUED FOR REVIEW	VJ

PLANS PREPARED BY:

NETWORK CONNEX
7151 COLUMBIA GATEWAY DRIVE, SUITE A
COLUMBIA, MD 21046
OFFICE: (443) 367-0003

CONSULTANT:

NETWORK CONNEX
7151 COLUMBIA GATEWAY DRIVE, SUITE A
COLUMBIA, MD 21046
OFFICE: (443) 367-0003

DRAWN BY: CHK.: APV.:

VJ	PS	NC
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LICENSURE:

HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: [Signature]
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

TITLE SHEET

SHEET NUMBER: REVISION:

T-1	A
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MN.1083.19POPDEL

GENERAL NOTES

PENETRATION AT FIRE RATED ASSEMBLIES NOTES

1. AT THE CLIENT PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "HILTI" HIGH PERFORMANCE FIRESTOP SYSTEM #FS601 AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.
2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
2. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATION.
3. THIS FACILITY IS AN UNOCCUPIED TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.
4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING DEMOLITION, ELECTRICAL, MECHANICAL AND STRUCTURAL INSTALLATIONS, AS WELL AS WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH THE CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY NETWORK CONNEX AND THE PROJECT ARCHITECT / ENGINEER IN WRITING. IN THE EVENT OF DISCREPANCIES FOUND, THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY NETWORK CONNEX AND THE PROJECT ARCHITECT / ENGINEER IN WRITING. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERROR, OMISSION, OR INCONSISTENCY AFTER THE START OF THE CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT / ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE MEANS OF CORRECTING ANY ERROR SHALL FIRST BE APPROVED BY THE PROJECT ARCHITECT / ENGINEER.
5. THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR IMPLIED BY THESE DRAWINGS.
6. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE IN THE SITE AND SHALL SUPERVISE AND DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
7. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:
- NCRANATIONAL ROOFING CONTRACTORS ASSOCIATION
O' HARE INTERNATIONAL CENTER
10255 W. HIGGINS ROAD, SUITE 600
ROSEMONT, IL 60018

SMACNASHEET METAL AND AIR CONDITIONING CONTRACTORS
NATIONAL ASSOCIATION
4201 LAFAYETTE CENTER DRIVE
CHANTILLY, VA 20151

ILPINTERNATIONAL INSTITUTE FOR LATH AND PLASTER
P.O. BOX 1863
LAFAYETTE, CA 94549
8. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS PRECEDENCE.
9. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL GIVE ALL NOTICES AND SHALL COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATIONS, LAWS AND ORDINANCES AS WELL AS STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP FOR ONE (1) YEAR AFTER THE PROJECT IS COMPLETE AND ACCEPTED UNDER THIS CONTRACT; UNLESS NOTED OTHERWISE IN THE CONTRACT BETWEEN THE OWNER AND CONTRACTOR. (EXCEPTION) THE ROOFING SUBCONTRACTOR SHALL FURNISH A MAINTENANCE AGREEMENT FOR ALL WORK DONE, COSIGNED BY THE GENERAL CONTRACTOR, TO MAINTAIN THE ROOFING IN A WATER TIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS STARTING AFTER THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, UNLESS OTHERWISE WRITTEN IN THE CONTRACT BETWEEN THE OWNER AND THE CONTRACTOR.

GENERAL NOTES (CONTINUATION)

11. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.
12. ALL EXPOSED METAL SHEET SHALL BE HOT-DIPPED GALVANIZED.
13. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.
14. THE GOVERNING AGENCIES, CODE AUTHORITIES, AND BUILDING INSPECTORS SHALL PROVIDE THE MINIMUM STANDARDS FOR CONSTRUCTION TECHNIQUES, MATERIALS, AND FINISHES USED THROUGHOUT THE PROJECT TRADE STANDARDS AND/OR PUBLISHED MANUFACTURERS SPECIFICATIONS MEETING OR EXCEEDING DESIGN REQUIREMENTS SHALL BE USED FOR INSTALLATION.
15. PRIOR TO STARTING CONSTRUCTION OF THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK.
16. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
17. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDUM'S, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT DRAWINGS TO THE ARCHITECT/ENGINEER AND THE LANDLORD/LESSOR AT THE CONCLUSION OF THE PROJECT.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE FROM THE START TO THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SITE AT ALL TIMES FOR THE LANDLORD/LESSOR PERSONNEL.
19. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER, WATER AND TOILET FACILITIES.
20. ALL CONSTRUCTION PHASES OF THE PROJECT SHALL CONFORM TO THE CURRENT GOVERNING CODES.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE OR PROVIDE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
22. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK.
23. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND/OR INSPECTIONS TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF THE SAID DOCUMENT.
24. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE UNLESS OTHERWISE NOTED.
25. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH THE FIRE RATE ASSEMBLIES.
26. (N) CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
27. WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.
28. 29. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
29. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT DAILY. PREMISES SHALL BE LEFT IN A CLEAN/SWEPT CONDITION AT ALL TIMES.
30. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CLARIFICATIONS.
31. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
32. CONTRACTORS SHALL BID WALK THE PROJECT TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.
33. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, THE DIMENSIONS, ELEVATIONS, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE (N) WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR THE FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY THE SUBCONTRACTOR(S).
34. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS, PRIOR TO STARTING WORK.
35. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
36. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
37. NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. UNAUTHORIZED CHANGES RENDER THESE DRAWINGS VOID.
38. ANY REFERENCES TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUBCONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.

GENERAL NOTES (CONTINUATION)

40. A PRE-CONSTRUCTION CONFERENCE OF REPRESENTATIVES FROM AFFECTED AGENCIES SHALL BE HELD ON THE JOB AT LEAST ONE (1) WEEK PRIOR TO BEGINNING CONSTRUCTION.
41. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE, AND THIS SET OF PLANS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE FIELD MEASUREMENTS AS NECESSARY TO COMPLETE ALL WORKS AND THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANYTHING ELSE DEEMED NECESSARY TO COMPLETE INSTALLATIONS AS DESCRIBED HEREIN. NETWORK CONNEX IS NOT RESPONSIBLE FOR ANY ERRORS RESULTING FROM THIS PRACTICE WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS.
42. DETAILS INCLUDED HEREIN ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS OR SITUATIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE SCOPE OF WORK.

SITE PREPARATION NOTES

1. THE PREPARATION OF THE SITE FOR CONSTRUCTION SHALL INCLUDE THE REMOVAL OF ALL BROKEN CONCRETE, TREE TRUNKS AND ANY OTHER DEBRIS THAT MIGHT DAMAGE THE FOOTINGS OF THE (N) STRUCTURE.
2. BACKFILL ALL TRENCHES WITH CLEAN, STERILE SOIL HAVING A SAND EQUIVALENT OF 30% OR GREATER. BACKFILL IN 8 INCH LAYERS, MOISTURE CONDITIONED AND PROPERLY COMPACTED. ADEQUATE DRAINAGE SHALL BE PROVIDED SUCH THAT NO PONDING OCCURS.
3. ALL FOUNDATION FOOTINGS SHALL EXTEND INTO AND BEAR AGAINST NATURAL UNDISTURBED SOIL OR APPROVED COMPACTED FILL. FOOTINGS SHALL EXTEND INTO SOIL DEPTH AS INDICATED IN PLANS.
4. SHOULD ANY LOOSE FILL, EXPANSIVE SOIL, GROUND WATER OR ANY OTHER UNEXPECTED CONDITIONS BE ENCOUNTERED DURING THE EXCAVATION FOR THE (N) FOUNDATION, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED AND ALL FOUNDATION WORK SHALL CEASE IMMEDIATELY.
5. WITHIN AN AREA A MINIMUM OF 5 FEET BEYOND THE BUILDING LIMITS, EXCAVATE A MINIMUM OF 4" OF EXISTING SOIL. REMOVE ALL ORGANICS, PAVEMENT, ROOTS, DEBRIS AND OTHERWISE UNSUITABLE MATERIAL.
6. THE SURFACE OF THE EXPOSED SUBGRADE SHALL BE INSPECTED BY PROBING OR TESTING TO CHECK FOR POCKETS OF SOFT OR UNSUITABLE MATERIAL. EXCAVATE UNSUITABLE SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
7. PROOF ROLL THE SURFACE OF THE EXPOSED SUBGRADE WITH A LOADED TANDEM AXLE DUMP TRUCK. REMOVE ALL SOILS WHICH PUMP OR DO NOT COMPACT PROPERLY AS DIRECTED BY THE GEOTECHNICAL ENGINEER/TESTING AGENCY.
8. FILL ALL EXCAVATED AREAS WITH APPROVED CONTROLLED FILL. PLACE IN 8" LOOSE LIFTS AND THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-698. COMPACT TO A MINIMUM OF 90% RELATIVE COMPACTION
9. ANY STRUCTURAL DRAWINGS HERE IN REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL ALL STRUCTURAL WORK AND CONNECTIONS HAVE BEEN COMPLETED. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. THE ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR COMPLICATIONS, DAMAGES, INJURY, OR DEATH ARISING OUT OF ANY KIND OF NEGLIGENCE PRIOR TO COMPLETION OF THE FINISHED STRUCTURE.
11. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO (N) OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
12. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
13. PRIOR TO PROCEEDING WITH ANY WORK WITHIN AN EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.

SHOP DRAWING REVIEW

1. REVIEW BY THE ARCHITECT/ENGINEER IS FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THERE FROM. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY, FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR SELECTION FABRICATION PROCESSES.

LANDLORD/LESSOR NOTES

1. A PRECONSTRUCTION CONFERENCE OF REPRESENTATIVES FROM APPLICABLE AGENCIES SHALL BE HELD ON SITE AT LEAST ONCE PRIOR TO BEGINNING CONSTRUCTION AT WHICH TIME A CONSTRUCTION SCHEDULE AND 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO LANDLORD/LESSOR.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO THE SITE AT ALL TIMES FOR LANDLORD/LESSOR PERSONNEL. OPEN TRENCHES SHALL BE PROPERLY PLATED AT THE END OF EACH WORKING DAY TO ALLOW FOR 24-HOUR LANDLORD/LESSOR ACCESS TO THE SITE.
3. THE CONTRACTOR AND CARRIER SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES TO THE EXISTING SITE AND SHALL RETURN DAMAGED FACILITIES TO EXISTING CONDITION OR BETTER AT NO COST TO THE LANDLORD/LESSOR.
4. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (DIG ALERT) AT LEAST TWO (2) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
5. ALL (N) AND EXISTING FACILITIES OWNED BY THE REPRESENTED CELLULAR CARRIER SHALL BE PROPERLY TAGGED IDENTIFYING THE OWNER'S NAME AND 24-HOUR PHONE NUMBER.
6. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE SITE IS SECURE DURING BOTH WORKING AND NON-WORKING HOURS.

NOTE:
CONTRACTOR TO FIELD VERIFY ALL (E) CONSTRUCTION CONDITIONS BEFORE SUBMITTAL OF FINAL BIDS, START OF CONSTRUCTION AND OR FABRICATION.



PROJECT INFORMATION:

MN.1083.19POPDEL
DELANO

9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

CURRENT ISSUE DATE:

04/22/26

ISSUED FOR:

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REV.: DATE: DESCRIPTION: BY:

A	04/22/26	90% CD, ISSUED FOR REVIEW	VJ

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LICENSURE:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
SIGNATURE: [Signature]
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER: REVISION:

T-2

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MN.1083.19POPDEL

ABBREVIATIONS

AB	ANCHOR BOLT	LA	LIGHTNING ARRESTOR
AC	ASPHALTIC CONCRETE	LAM	LAMINATED
A.C.	AIR CONDITIONING	LBS	POUNDS
ADJ	ADJUSTABLE	LNA	LOW NOISE AMPLIFIER
A.F.F.	ABOVE FINISH FLOOR	LT	LIGHT
ARCH	ARCHITECTURAL	LTE	LONG TERM EVOLUTION
APPROX.	APPROXIMATELY	MFR	MANUFACTURER
A.G.L.	ABOVE GRADE LEVEL	MAT	MATERIAL
A.M.S.L.	ABOVE MEAN SEA LEVEL	MAX	MAXIMUM
BD	BOARD	MECH	MECHANICAL
BLDG	BUILDING	MIN	MINIMUM
BLKG	BLOCKING	MISC	MISCELLANEOUS
BOT	BOTTOM	ML	METAL LATH
BSMT	BASEMENT	MO	MASONRY OPENING
BTS	BASE TRANSCEIVER STATION	MS	MACHINE SCREW
		MTD	MOUNTED
		MTL	METAL
C	COURSE(S)	(N)	NEW
CEM	CEMENT	NIC	NOT IN CONTRACT
CL	CHAIN LINK	NO	NUMBER
CLG	CEILING	NTS	NOT TO SCALE
CLR	CLEAR		
CO	CONDUIT ONLY	OA	OVERALL
COL	COLUMN	O.C.	ON CENTER
CONC	CONCRETE	OPNG	OPENING
CONST	CONSTRUCTION	OPP	OPPOSITE
CONT	CONTINUOUS		
CORR	CORRIDOR	PARTN	PARTITION
CPRI	COMMON PUBLIC RADIO INTERFACE CABLE	PL	PLATE
		PLAS	PLASTER
DIA	DIAMETER	PLYWD	PLYWOOD
DBL	DOUBLE	POC	POINT OF CONNECTION
DEPT	DEPARTMENT	PROP	PROPERTY
DEMO	DEMOLITION	PSUs	POWER SUPPLY UNIT SYSTEM
DIM	DIMENSION	PT	PRESSURE TREATED
DN	DOWN		
DR	DOOR	R	RISER
DTL	DETAIL	REQD	REQUIRED
DUG	DIGITAL UNIT GSM	RD	ROOF DRAIN
DUL	DIGITAL UNIT LTE	RM	ROOM
DUW	DIGITAL UNIT WCDMA	RMS	ROOMS
DWG	DRAWING	RO	ROUGH OPENING
(E)	EXISTING	SAR M	TELCO INTERFACE UNIT
EA	EACH	SC	SOLID CORE
ELEC	ELECTRIC	SCHED	SCHEDULE
ELEV	ELEVATION	SECT	SECTION
EQUIP	EQUIPMENT	SFP	SMALL PLUGGABLE TRANSCEIVER
EXP	EXPANSION	SHT	SHEET
EXT	EXTERIOR	SIM	SIMILAR
		SPECS	SPECIFICATIONS
FA	FIRE ALARM	SS	STAINLESS STEEL
FB	FLAT BAR	STL	STEEL
FF	FINISH FLOOR	STOR	STORAGE
FH	FLAT HEAD	STRUCT	STRUCTURAL
FIN	FINISH(ED)	SUSP	SUSPENDED
FLR	FLOOR	SW	SWITCH
FOS	FACE OF STUDS	SWBO	SWITCHBOARD
FS	FINISH SURFACE		
FT	FOOT, FEET	THK	THICK
FTG	FOOTING	TI	TENANT IMPROVEMENT
FW	FINISH WALL	TMA	TOWER MOUNTED AMPLIFIER
F.G.	FINISH GRADE	TOS	TOP OF SURFACE
FUT	FUTURE	TS	TUBE STEEL
		TYP	TYPICAL
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED		
GL	GLASS	VCT	VINYL COMPOSITION TILE
GR	GRADE	VERT	VERTICAL
GYP	GYPSUM	V.I.F.	VERIFY IN FIELD
GFCI	GROUND FAULT CIRCUIT INTERRUPT	VG	VERTICAL GRAIN
GND	GROUND		
GPS	GLOBAL POSITIONING SYSTEM	W/	WITH
GSM	GLOBAL SYSTEM FOR MOBILE COMMUNICATION	WD	WOOD
		WR	WATER RESISTANT
HC	HOLLOW CORE	WT	WEIGHT
HDW	HARDWARE		
HTR	HEATER	XFMR	TRANSFORMER
HM	HOLLOW METAL		
HORIZ	HORIZONTAL	⊙	AT
HR	HOUR	⌈	CHANNEL
HT	HEIGHT	⌋	CENTERLINE
HV	HIGH VOLTAGE	∠	ANGLE
ID	INSIDE DIMENSION	ℙ	PROPERTY LINE
INS	INSULATION		
INT	INTERIOR		
JT	JOINT		

NOT USED

3

ABBREVIATIONS

	BUILDING SECTION REFERENCE		PROPERTY LINE
	DETAIL REFERENCE		WROUGHT IRON FENCE
	CROSS SECTION REFERENCE		WOOD FENCE
	ELEVATION REFERENCE		CHAIN LINK FENCE
	KEY NOTE REFERENCE		POWER SERVICE
			TELCO SERVICE
			TELCO & POWER SERVICES
			COAX CABLE
			GROUNDING
			DOOR NUMBER
			AREA AND/OR ROOM NUMBER
			MECHANICAL UNIT

SYMBOLS

4

ABBREVIATIONS

2

NOT USED

1



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OF THE STATE OF MINNESOTA.

SIGNATURE:
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

ABBREVIATIONS,
SPECIFICATIONS AND
SYMBOLS

SHEET NUMBER: REVISION:

T-3

A

MN.1083.19POPDEL

GENERAL NOTES

1. ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND MINNESOTA BUILDING CODE 2020 SPECIFICATIONS.
2. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND CONDITIONS OF ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
3. STRUCTURAL DRAWINGS SHALL WORK IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
4. DESIGN, MATERIALS, EQUIPMENT, AND PRODUCTS OTHER THAN THOSE DESCRIBED OR INDICATED ON THE DRAWINGS MAY BE CONSIDERED FOR USE PROVIDED PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
5. ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED TO THEIR ACCURACY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS. SHOULD CONDITIONS BECOME APPARENT THAT DIFFER FROM THE CONDITIONS SHOWN, THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROFESSIONAL ENGINEER. PROFESSIONAL ENGINEER WILL THEN PREPARE ADDITIONAL DRAWINGS AS MAY BE NEEDED TO ACCOMMODATE THE CONDITIONS AS BROUGHT TO THEIR ATTENTION.
6. MECHANICAL EQUIPMENT MUST BE FIRMLY ATTACHED TO THE STRUCTURE. ISOLATORS, FASTENERS, AND OTHER ELEMENTS PROVIDING STABILITY FOR MECHANICAL EQUIPMENT SHALL BE CAPABLE OF TRANSMITTING CODE REQUIRED LOADS, BUT IN NO EVENT LESS THAN A SHEAR LOAD EQUIVALENT TO 0.45 TIMES THE OPERATING WEIGHT OF THE EQUIPMENT.
7. WATERPROOFING: SEE ARCHITECTURAL DRAWINGS.
8. THE FOUNDATION DESIGN IS BASED ON MINNESOTA BUILDING CODE 2020 TABLE 1806.2. ALLOWABLE SOIL BEARING VALUE IS 1500.
9. THE NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
10. TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

CONCRETE

1. ALL POURED-IN-PLACE CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. UNLESS OTHERWISE NOTED, CEMENT TO BE TYPE-8 FROM TESTED STOCK PER ASTM C-150.
2. CONCRETE FORM TOLERANCES SHALL BE WITHIN THE STANDARDS SET BY THE AMERICAN CONCRETE INSTITUTE.
3. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS OR OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTOR PRIOR TO THE POURING OF ANY CONCRETE.
4. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS.
5. FORM EXPOSED CORNERS OF COLUMNS, BEAMS, WALLS, ETC. WITH 3/4" CHAMFERS UNLESS DETAILED OTHERWISE.
6. PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.

REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 U.N.O.
2. BARS SHALL BE CLEAN OF MUD, OIL, OR OTHER COATINGS LIKELY TO IMPAIR BONDING.
3. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY. ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE IS NOT AN ACCEPTABLE MOISTURE/CORROSION PROTECTION.
4. REINFORCING STEEL SHALL BE SPLICED AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DRAWINGS.
5. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706.
6. CLEAR CONCRETE COVERAGE IS AS FOLLOWS:
- | | |
|---|-----------------------------|
| CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| EXPOSED TO EARTH OR WEATHER | |
| #6 OR LARGER | 2" |
| #5 AND SMALLER | 1-1/2" |
| COLUMNS (TO TIES) | 1-1/2" |
| BEAMS (TO STIRRUPS) | 1-1/2" |
| FLAT SLABS | 3/4" |
| WALLS | SEE SCHEDULE AND OR DETAILS |
| ALL OTHER PER LATEST EDITION OF ACI 318 | |

STRUCTURAL STEEL

1. THE LABOR, MATERIALS AND EXECUTION REQUIRED FOR ALL CONCRETE WORK AS INDICATED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THOSE APPLICABLE PORTIONS OF CHAPTER 22 OF THE LATEST ADOPTED EDITION OF THE APPLICABLE BUILDING CODE.
2. STRUCTURAL STEEL NOT ENCASED IN CONCRETE SHALL BE SHOP PAINTED WITH TNE MEC99 METAL PRIMER OR APPROVED EQUIVALENT.
3. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307. THIS INCLUDES EXPANSION/ADHESIVE ANCHORS. BOLTED CONNECTIONS SHALL CONFORM TO AISC SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
4. UNLESS NOTED OTHERWISE ALL WELDS PER THE LATEST EDITIONS OF THE AWS STANDARDS SHALL CONFORM TO AISC SPECIFICATIONS. WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS.
5. CONTRACTOR IS PERMITTED TO CUT AND WELD ANTENNA SUPPORT ASSEMBLY ARMS AS NECESSARY TO MEET THE LENGTH REQUIREMENTS IN THE FIELD. WELDS SHALL CONSIST OF A 3/16" FILLET ALL THE WAY AROUND FOR 1/4" THICK STEEL OR LESS AND 3/8" FILLET WELD FOR STEEL 1/2" THICK OR LESS. CONTRACTOR SHALL RESTORE CORROSION BARRIER WITH AN APPROVED PAINT IN ACCORDANCE WITH BS 729-1971 AND PREN 1029."

STRUCTURAL NOTES (CONTINUATION)

6. MATERIAL CONFORMANCE:
- A. WIDE FLANGE STEEL SECTIONS PER ASTM A572 OR A992 WITH Fy = 50 KSI
- B. PIPES SECTIONS PER ASTM A501 WITH Fy = 36 KSI
- C. TUBE STEEL SECTIONS PER ASTM A500 WITH Fy = 46 KSI
- D. COLD FORMED STEEL PER ASTM A653 WITH Fy = 50 KSI
- E. WELDING ELECTRODES PER AWS CODE, E70XX UNLESS NOTED OTHERWISE ON PLANS
- F. ALL OTHER MISCELLANEOUS STEEL SHALL BE ASTM A36 WITH Fy = 36 KSI UNLESS NOTED OTHERWISE ON THE PLANS

ADHESIVE / MECHANICAL ANCHORS

1. ALL POST-INSTALLED ANCHORS SHALL BE PER SIMPSON OR HILTI MANUFACTURING AS INDICATED ON THE PLANS.
2. MECHANICAL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING APPROVAL CODES:
- FOR HILTI KWIK BOLT T22 ANCHORS, INSTALLATION SHALL COMPLY WITH ICC-ES ESR-4561 FOR ANCHORAGE TO MASONRY. FOR HILTI KWIK BOLT ANCHORS, INSTALLATION SHALL COMPLY WITH ICC-ES ESR-4266 FOR ANCHORAGE TO CONCRETE.
- ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING APPROVAL CODES:
- FOR SIMPSON SET-XP EPOXY ANCHORS, INSTALLATION SHALL BE IN ACCORDANCE WITH ICC-ES ESR-2508 AND LARR 25744 FOR ANCHORAGE TO CONCRETE, IAPMO UES ER-265 AND LARR 25965 FOR ANCHORAGE TO MASONRY.
- FOR HILTI HIT-HY 200 EPOXY ANCHORS, INSTALLATION SHALL BE IN ACCORDANCE WITH ICC ESR-3187 AND LARR 25964 FOR ANCHORAGE TO CONCRETE.
3. ALLOW A MINIMUM OF 72 HOURS AFTER NEW CONCRETE IS PLACED PRIOR TO LOCATING MECHANICAL OR ADHESIVE ANCHORS. ALL MECHANICAL/ADHESIVE ANCHORS REQUIRE SPECIAL STRUCTURAL INSPECTION PER THE BUILDING CODE.

MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT, GRADE S WITH Fm = 1500 PSI.
2. MORTAR TYPE S, Fm = 1800 PSI
3. PROVIDE EXPANSION JOINTS IN MASONRY WALLS EVERY 24'-0" O.C.
4. VERTICAL REINFORCING SHALL BE 1 #5 VERTICAL IN CENTER OF GROUTED CELL CONTINUOUS FULL HEIGHT OF WALL AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 48" O.C. UNLESS NOTED OTHERWISE ON THE PLANS. TIE AT 8'-0" O.C. VERTICALLY WITH SINGLE WIRE LOOP TIE BY AA WIRE PRODUCTS COMPANY OR EQUIVALENT. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH VERTICAL REINFORCING.
5. HORIZONTAL REINFORCING SHALL CONSIST OF 2 #5 CONTINUOUS AT ELEVATED FRAMING ASSEMBLIES. 1 #5 CONTINUOUS AT TOP OF PARAPETS AND FREESTANDING WALLS. PLACE THESE BARS CONTINUOUS THROUGH CONTROL JOINTS. INSTALL BENT BARS TO MATCH HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY. STANDARD WEIGHT (NO. 9 GAGE WIRE) DUR-O-WALL OR DUR-O-WIRE (OR EQUIVALENT) LADDER TYPE JOINT REINFORCING AT 16" O.C. LAP LADDER TYPE JOINT REINFORCING 12" MINIMUM.
6. LAP SPLICES FOR VERTICAL AND HORIZONTAL REINFORCING SHALL BE PER TYPICAL DETAILS. DO NOT SPLICE WITHIN 8'-0" OF CONTROL JOINTS.

WOOD

1. IN STUD WALLS, UNLESS NOTED OTHERWISE, INSTALL DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS AND AT ISOLATED BEARING POINTS OF FRAMING MEMBERS ABOVE. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS.
2. SAWN LUMBER FRAMING SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WMPA OR THE WCLB. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL HAVE MINIMUM PROPERTIES WHICH MEET OR EXCEED THE FOLLOWING WOOD TYPES:
- | MEMBER | WOOD TYPE |
|------------------------|-------------|
| JOISTS | |
| 2X4 (PANELIZED) | D.F. SELECT |
| 2X4 | D.F. #2 |
| 2X6 OR LARGER | D.F. #2 |
| BEAMS | |
| WIDTH OF 4" OR LESS | D.F. #1 |
| WIDTH GREATER THAN 4" | D.F. SELECT |
| LEDGERS AND TOP PLATES | D.F.#2 |
| STUDS | |
| 2X4 | D.F. STD |
| 2X6 OR LARGER | D.F. #2 |
| POSTS | |
| 4X4 | D.F. #2 |
| 6X6 OR LARGER | D.F. SELECT |
3. GLU-LAMINATED BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb = 2,400 PSI, Fy = 240 PSI, E = 1,800,000 PSI. BEAMS CANTILEVERING OVER SUPPORTS SHALL HAVE THE SPECIFIED MINIMUM PROPERTIES TOP AND BOTTOM. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS. IN THE ABSENCE OF CAMBER SHOWN ON THE PLAN, PROVIDE STANDARD CAMBER. STANDARD CAMBER IS DEFINED AS A RADIUS OF CURVATURE EQUAL TO 2500 FEET.
4. PLYWOOD SHALL BE APA "CDX" RATED SHEATHING OR BETTER AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. (ON ROOFS WHERE PLYWOOD IS LAYED UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD). STAGGER JOINTS. ALL NAILING SHALL BE COMMON NAILS UNLESS NOTED OTHERWISE. WHERE SCREWS ARE INDICATED FOR WOOD TO WOOD ATTACHMENTS, USE WOOD SCREWS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATIO AND SHALL BE ATTACHED AS FOLLOWS UNLESS NOTED OTHERWISE.

USE	THICKNESS	SPAN/INDEX RATIO	ATTACHMENT EDGE	INTERMEDIATE
ROOF	5/8"	32/16	10d#6" O.C.	10d#12" O.C.
ROOF	3/4"	40/20	10d#6" O.C.	10d#12" O.C.
FLOOR	3/4"	40/20	SCREWS#6" O.C.	SCREWS#12" O.C.
SHEAR WALL	3/8"	24/0	8d#6" O.C.	8d#12" O.C.

FIBER REINFORCED PLASTIC (FRP)

1. ALL CONNECTIONS SHALL BE 3/8" DIAMETER FIBER BOLTS, U.N.O. (PULTEX 1625 OR EQUIVALENT) AND ALL HOLES UNLESS NOTED OTHERWISE SHALL BE PUNCHED OR DRILLED 1/8" LARGER IN DIAMETER THAN THE BOLTS THEY RECEIVE.
2. ALL CONTACT SURFACES OF FRP STRUCTURAL SHAPES AND/OR HYBRID POLYMER COMPOSITE ARCHITECTURAL PANELS SHALL BE BONDED PER MANUFACTURER'S RECOMMENDATIONS. USE 3/8" FRP SCREEN SKIN AND EPOXY GLUE SKIN TO FRAMING MEMBERS WITH 3/8" DIAMETER FIBER BOLTS AT 24" O.C. EIFS SHALL MATCH BUILDING AND BE ATTACHED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL LIQUID NAILS MULTI-PURPOSE CONSTRUCTION ADHESIVE SHALL BE PER MACCO OR APPROVED EQUIVALENT. BONDING SURFACE SHALL BE CAREFULLY PREPARED TO ENSURE A GOOD ADHESIVE BOND BY WIPING THE SURFACE WITH A STERILIZING SOLVENT, REMOVING SURFACE GLOSS BY LIGHT SANDING, APPLY ADHESIVE, AND FASTEN OR CLAMP BONDING SURFACES UNTIL CURED.
4. ALL EXPOSED JOINTS AT ARCHITECTURAL PANELS AND SHAPES (EDGES, CORNERS, ETC.) SHALL BE CAULKED WITH AN APPROVED FLEXIBLE POLYURETHANE SEALANT/CAULK.
5. ALL OPEN ENDS OR GAPS OF SCREEN FRAMING WHERE WATER SUSCEPTIBLE TO WATER INFILTRATION SHALL BE WEATHER CAPPED OR SEALED BY THE GENERAL CONTRACTOR.
6. ALL FRP MATERIAL TO BE LOCATED IN THE CITY OF LOS ANGELES SHALL CONFORM TO LARR 25536.
7. ALL FRP MATERIAL SHALL CONFORM TO ASTM D-638, 695, 790, 2344, 732, ADDITIONALLY WITH BOLTS CONFORMING TO ASTM B-565. ALL FRP MATERIAL SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES FOR ALLOWABLE STRESS DESIGN (BASED ON A SAFETY FACTOR OF 7). VALUES ARE REPRESENTED IN KSI.

MECHANICAL PROPERTY	LENGTHWISE	CROSSWISE
TENSILE STRESS Ft	4.3	1.0
COMPRESSIVE STRESS Fc	4.3	2.1
FLEXURAL STRESS Fy	4.3	1.4
MODULUS OF ELASTICITY E	2.8X10 ⁶	---
SHEAR Fv	0.6	---
BOLT SHEAR	1.2	---

SPECIAL STRUCTURAL INSPECTION – STRUCTURAL ONLY

1. SPECIAL STRUCTURAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION. SPECIAL STRUCTURAL INSPECTION IS REQUIRED FOR THE FOLLOWING:
- | VERIFICATION AND INSPECTION | INSPECTION TYPE | REFERENCE STANDARD |
|--|-----------------|-----------------------------|
| | CONTINUOUS | PERIODIC |
| STEEL CONSTRUCTION | | |
| WELDING | | |
| AT FLOOR AND ROOF DECK WELDS | | AWS D1.3 |
| FOR REINFORCING STEEL FOR STRUCTURAL STEEL | | AWS D1.4, ACI 318-19 |
| HIGH STRENGTH BOLTING | | AISC 360-16, 2020 RCSC |
| CONCRETE CONSTRUCTION | | |
| REINFORCING STEEL | | |
| POST-INSTALLED ANCHORS | X | ACI 318-19
ACI 318-19 |
| USE OF REQUIRED DESIGN MIX | | ACI 318-19 |
| MASONRY CONSTRUCTION | | |
| REINFORCING STEEL | | |
| GROUT PLACEMENT | | |
| CLEANOUTS PRIOR TO CLOSURE | | |
| POST-INSTALLED ANCHORS | | TMS 402 AND 602/
ACI 530 |
2. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN THAT IT CONFORMS TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS AND ALL DEVIATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE WORK. ALL REQUESTS FOR DEVIATIONS SHALL BE INITIATED BY THE CONTRACTOR VIA A WRITTEN REQUEST FOR INFORMATION.
3. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SPECIAL INSPECTOR ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. INSPECTOR IS NOT AUTHORIZED TO OPERATE CONTRACTOR'S EQUIPMENT.
5. FOR ADDITIONAL INFORMATION ON SPECIAL STRUCTURAL INSPECTIONS, CONTACT THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION.



PROJECT INFORMATION:

MN.1083.19POPDEL
DELANO

9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

CURRENT ISSUE DATE:

04/22/26

ISSUED FOR:

PRELIMINARY

REV.: DATE: DESCRIPTION: BY:

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PLANS PREPARED BY:

**NETWORK
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7151 COLUMBIA GATEWAY DRIVE, SUITE A
COLUMBIA, MD 21046
OFFICE: (443) 367-0003

CONSULTANT:

**NETWORK
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SIGNATURE:

NAME: ANDREW M. MILLER

DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

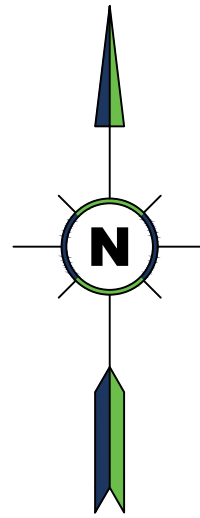
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NOTES

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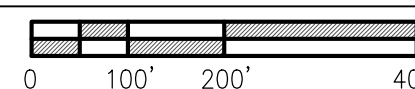
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OVERALL SITE PLAN

SCALE: 1"=200'-0"



1



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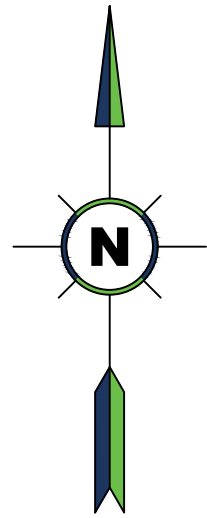
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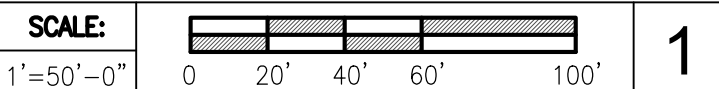
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ENLARGED SITE PLAN



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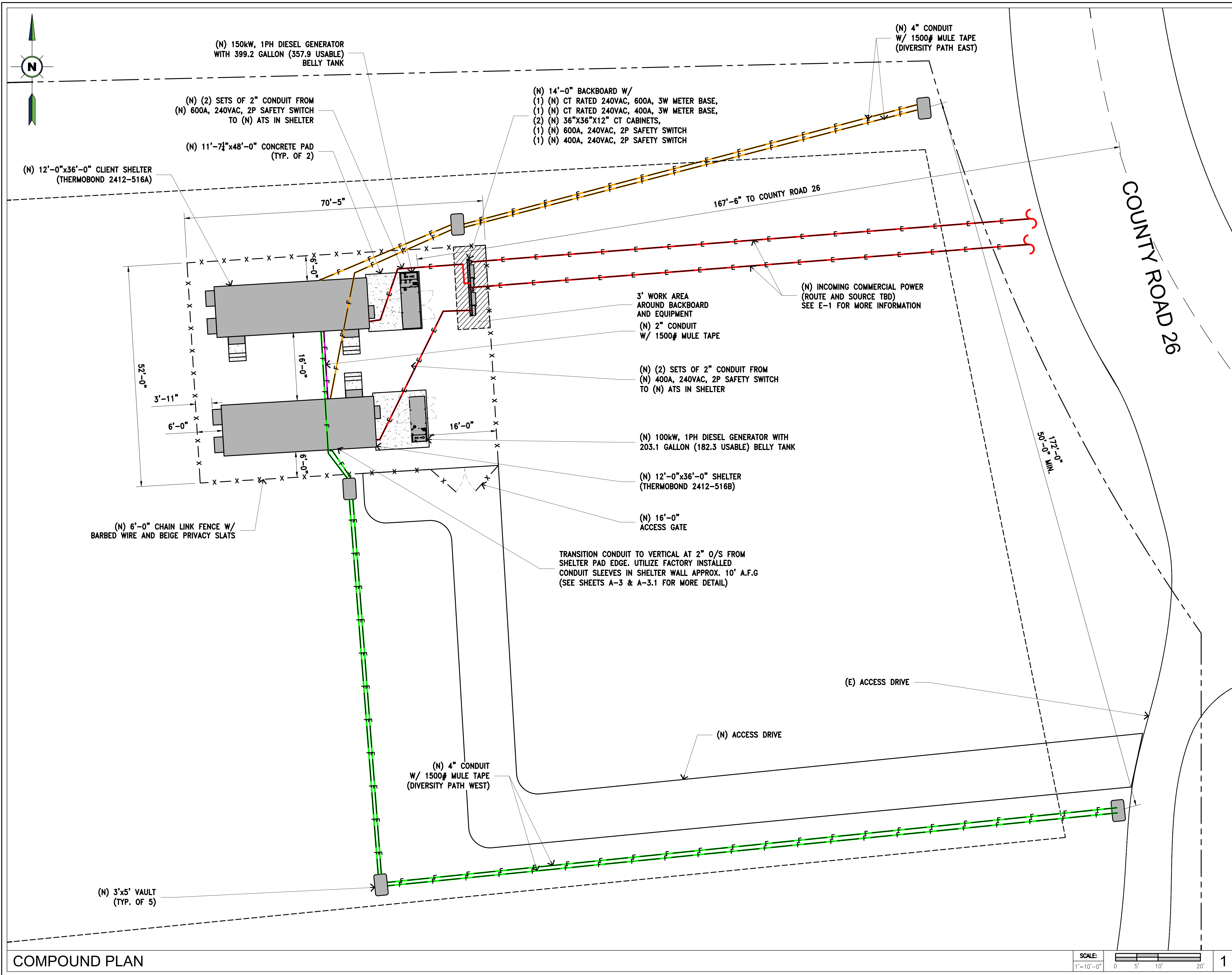
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SHEET TITLE:

COMPOUND PLAN

SHEET NUMBER: 3

REVISION:3

A-2

A

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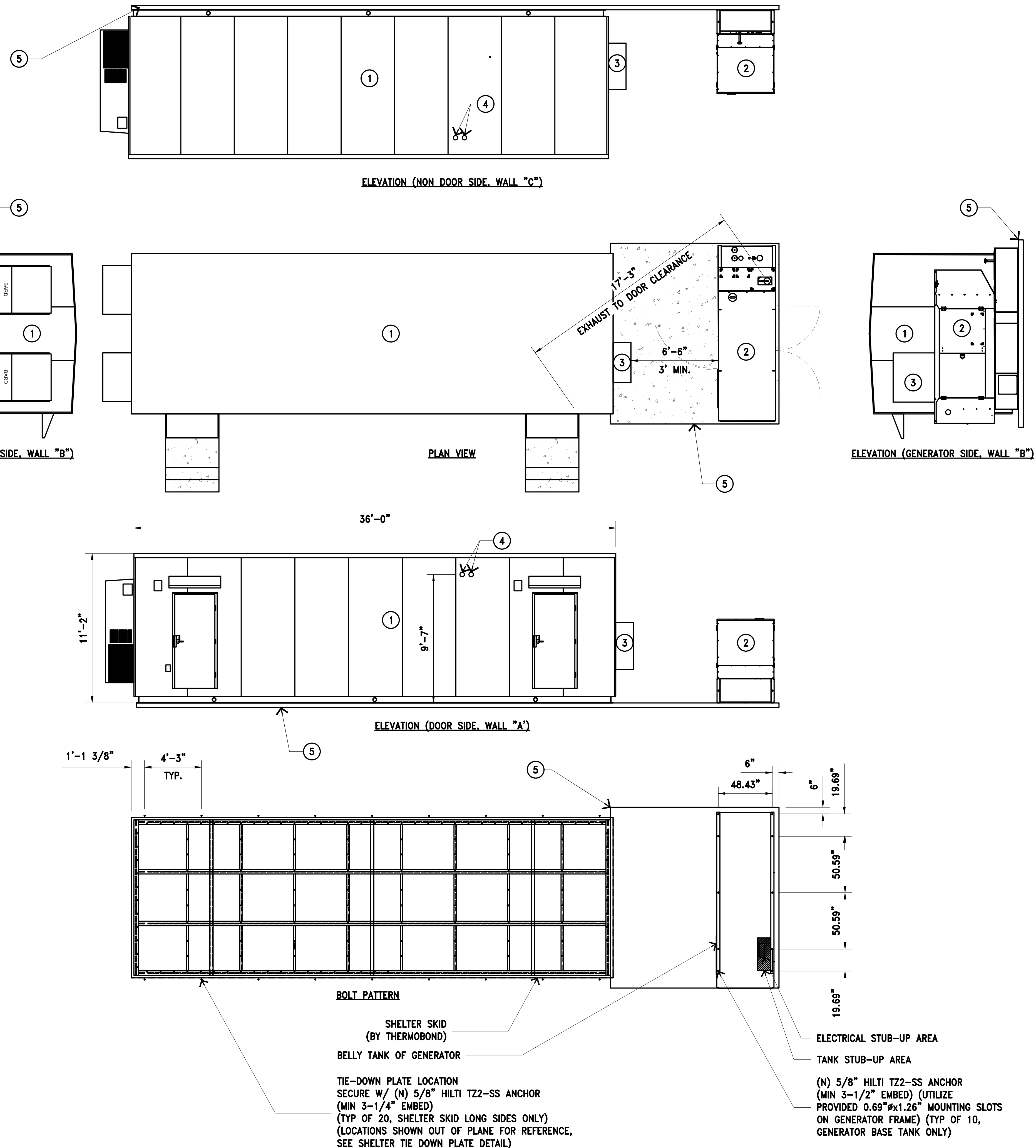
SHELTER AND 150kW
GENERATOR DETAILS

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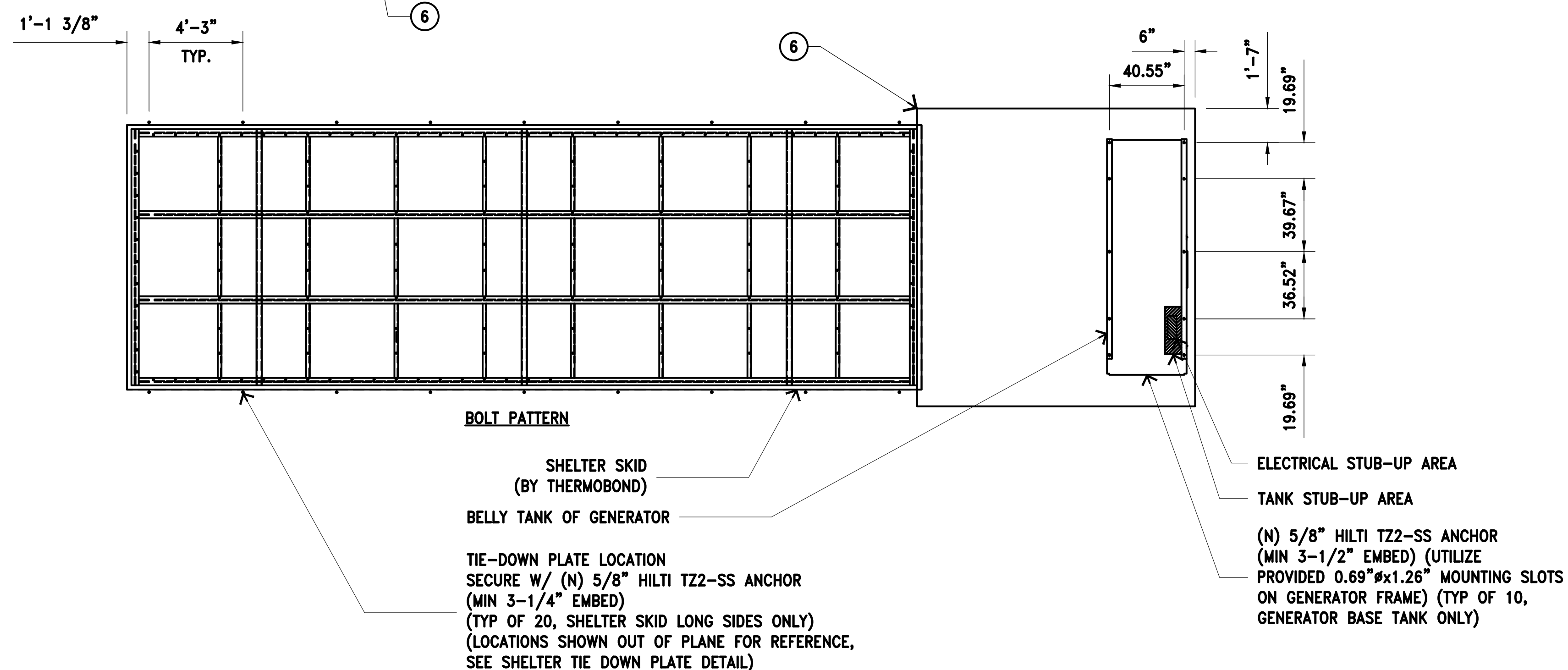
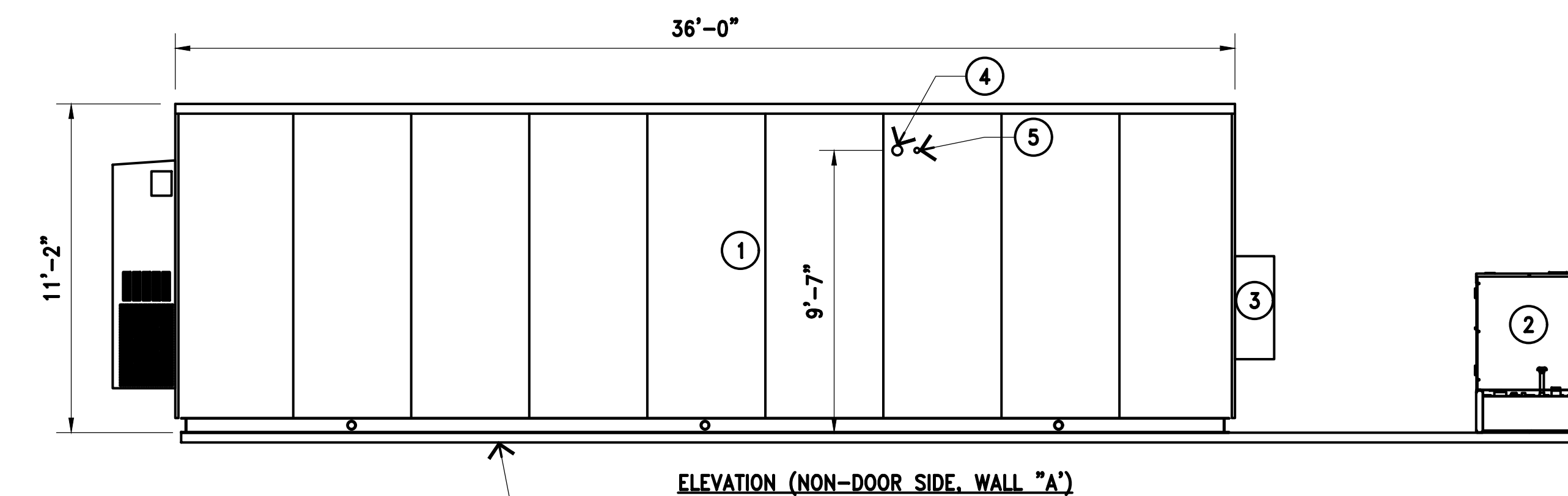
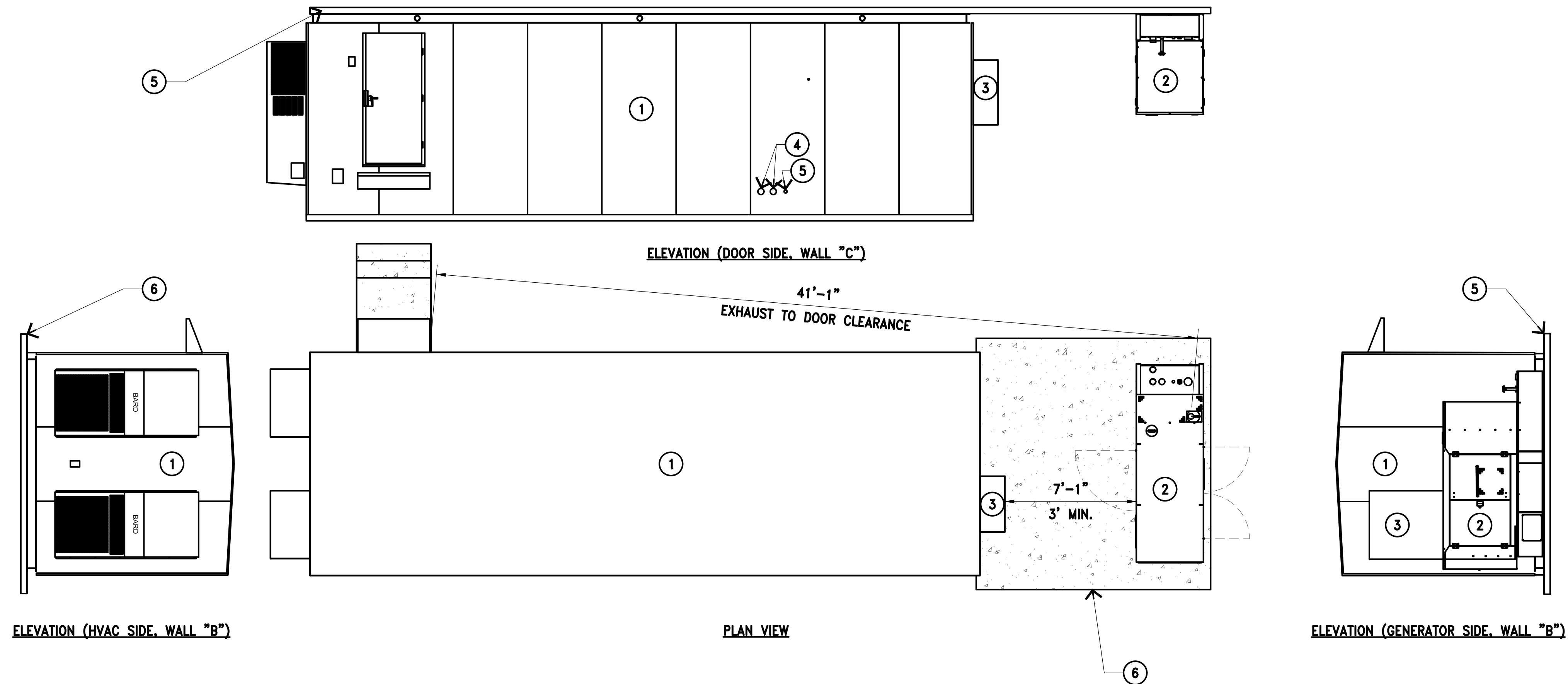
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SHELTER AND 100kW
GENERATOR DETAILS

SHEET NUMBER: REVISION:

A-3.1 A
MN.1083.19POPDEL



KEY

ID	EQUIPMENT AND STATUS
①	12'-0"x36'-0" SHELTER (THERMOBOND #2412-516B)
②	100KW, 1PH DIESEL GENERATOR WITH 203.1 GALLON (182.3 USABLE) BELLY TANK
③	GENERATOR DOCKING STATION (KRATOS 400A KAMBOX OR APPROVED EQUAL)
④	4" RMC PENETRATION (3 TOTAL, UTILIZE FOR (N) FIBER CONNECTION AND SHELTER INTERCONNECT)
⑤	2" RMC PENETRATION (2 TOTAL, UTILIZE FOR (N) FIBER CONNECTION AND SHELTER INTERCONNECT)
⑥	CONCRETE PAD FOR GENERATOR & SHELTER (SEE SHEET C-1 FOR DIMENSIONS & DETAILS)

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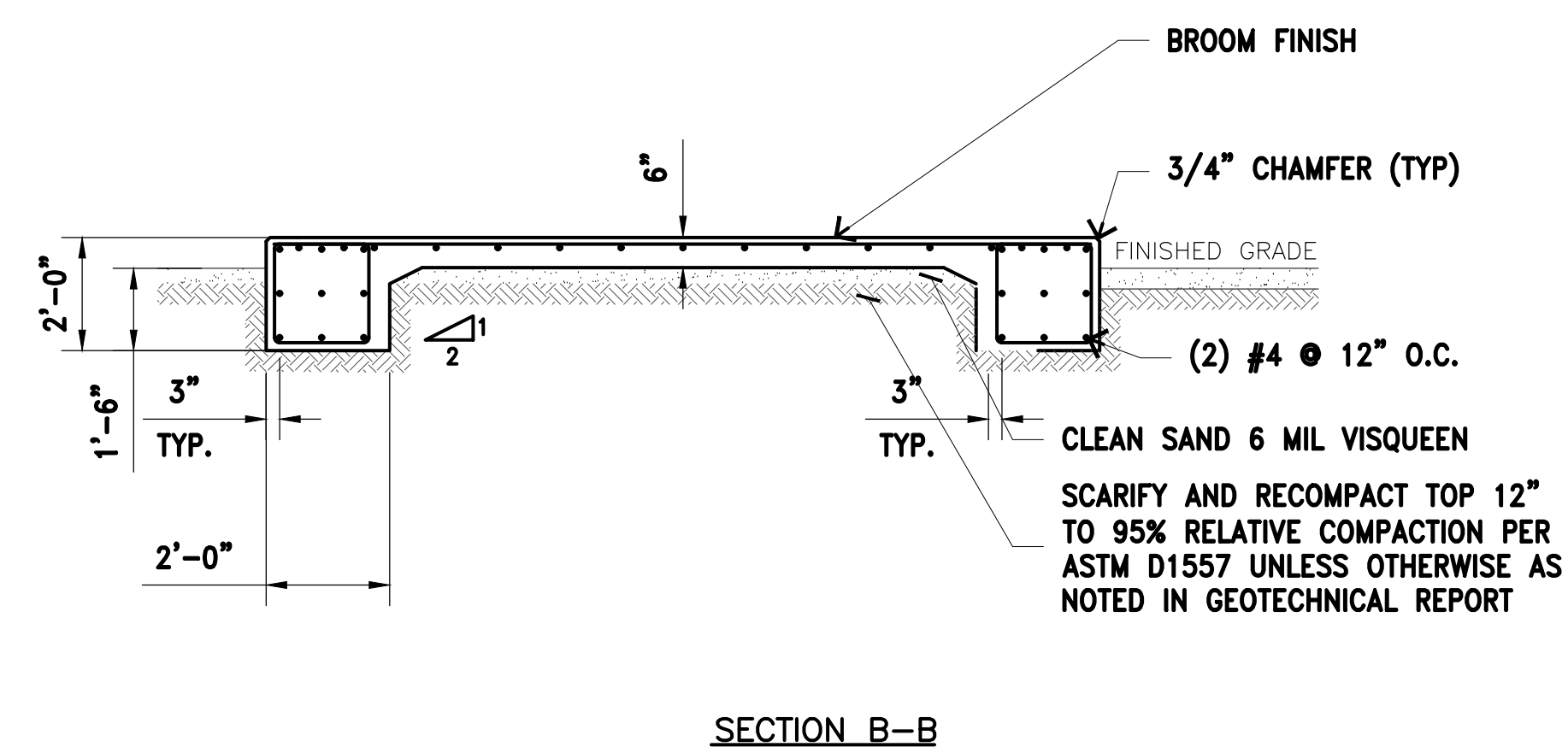
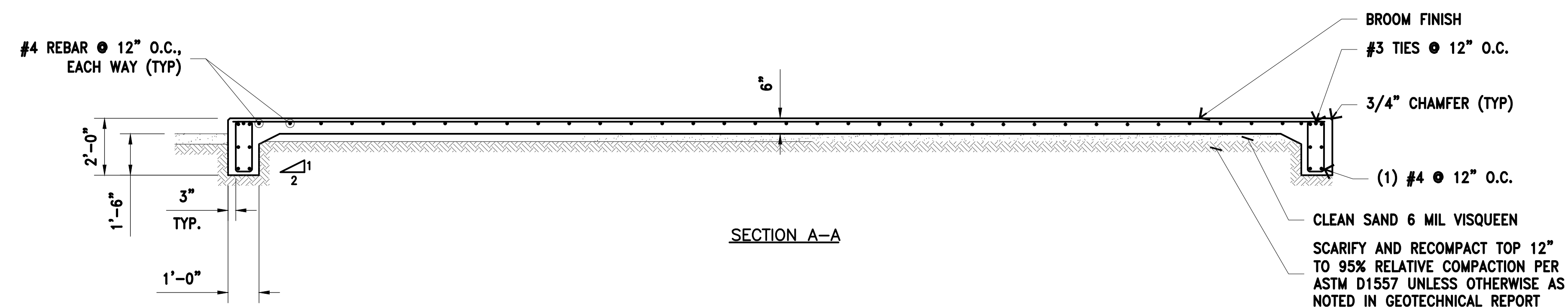
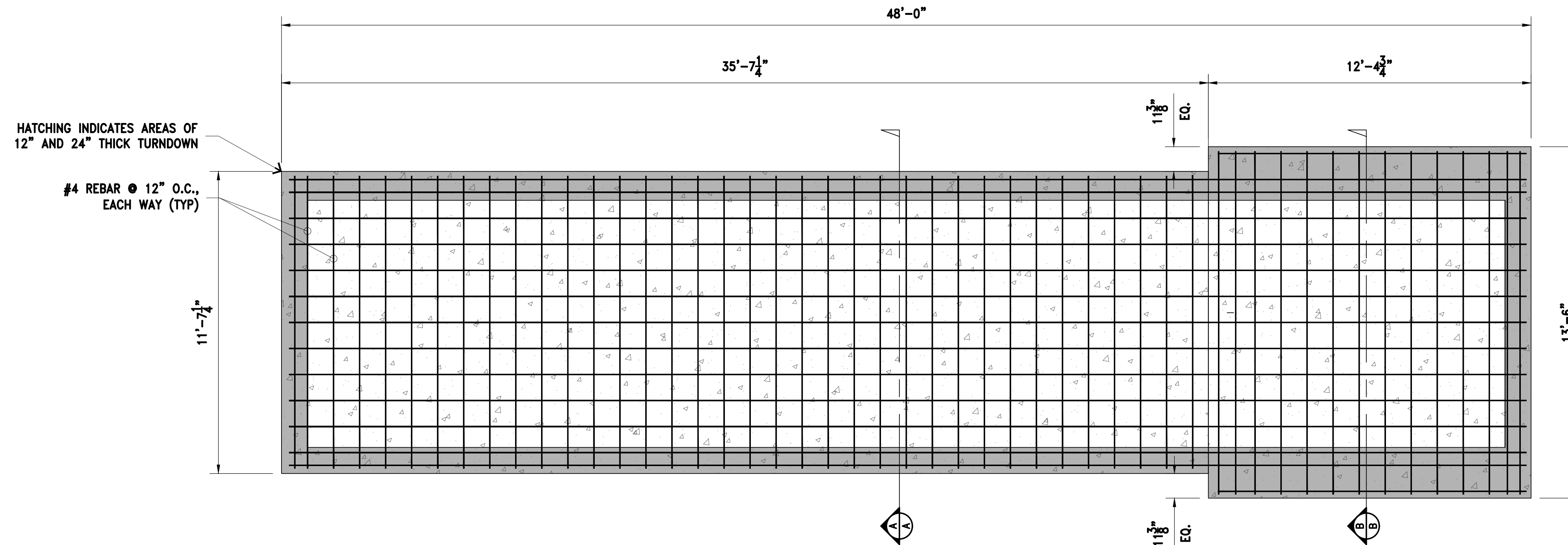
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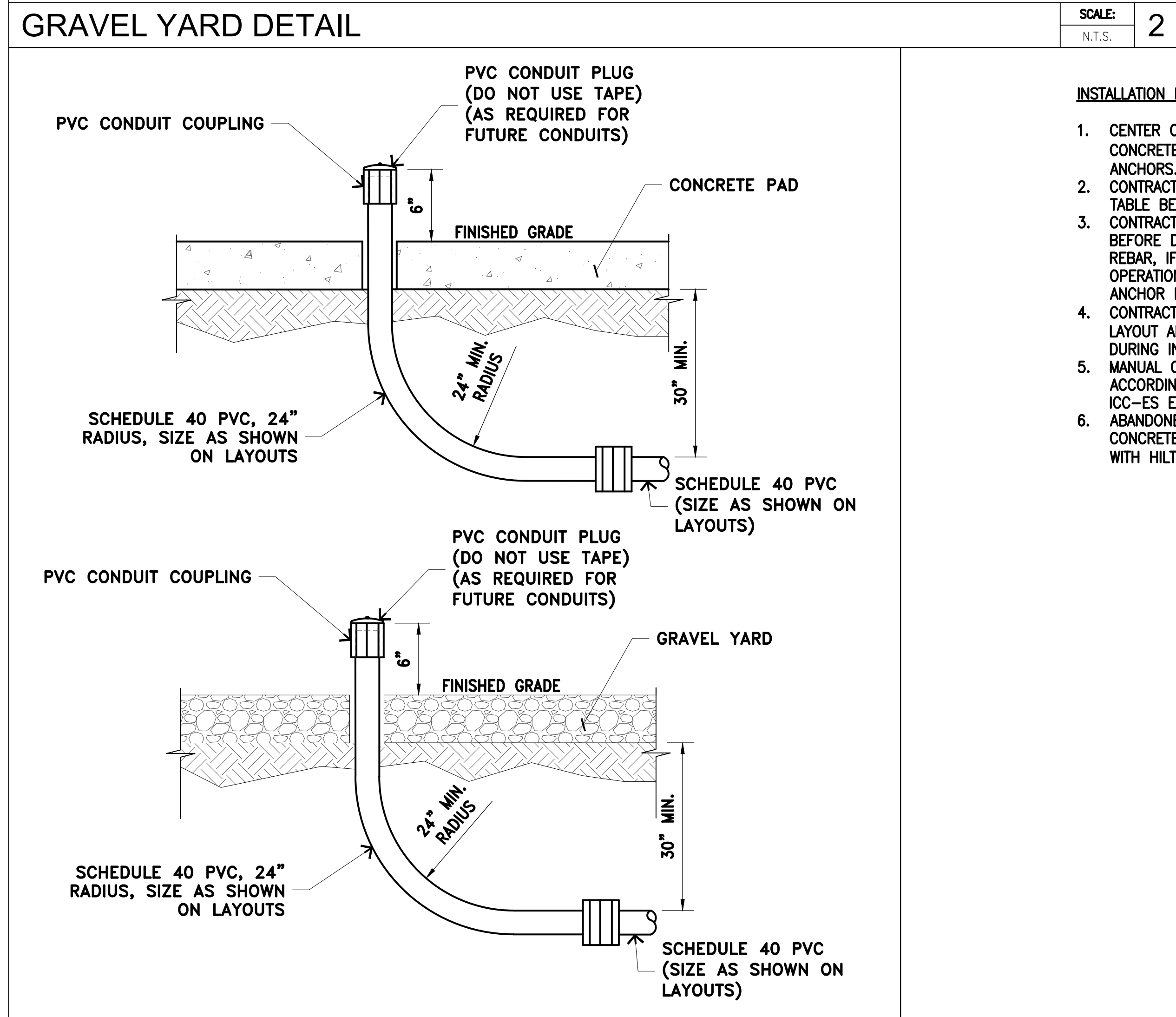
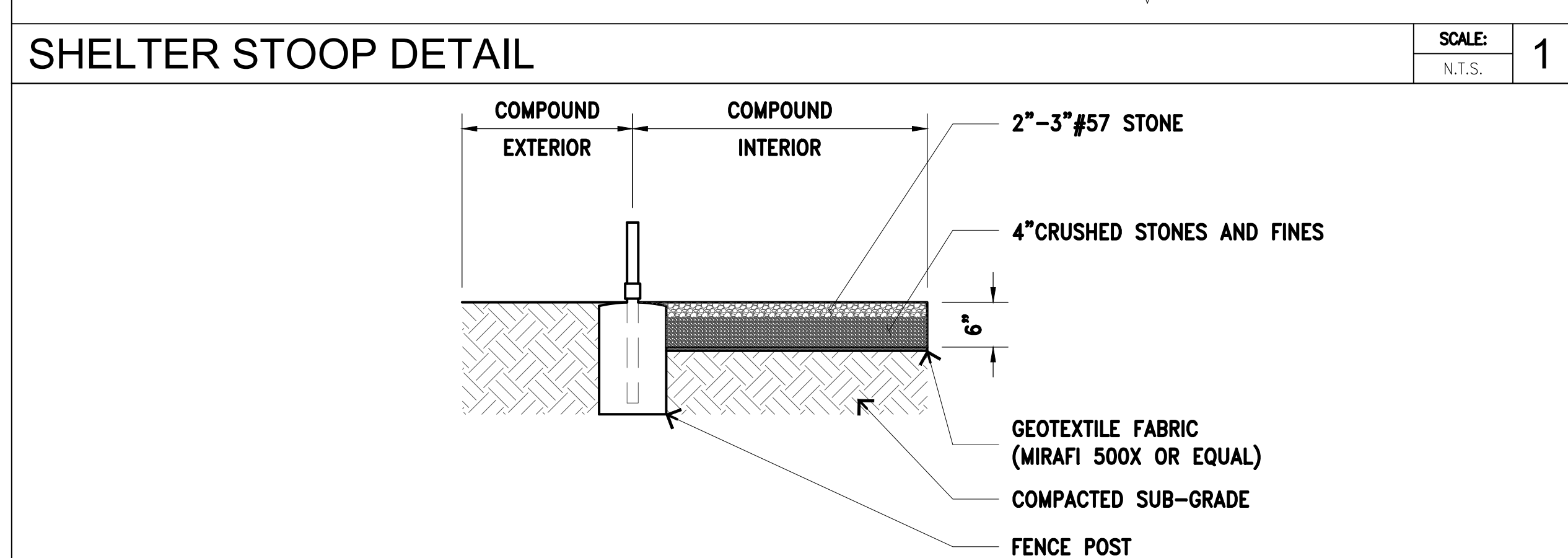
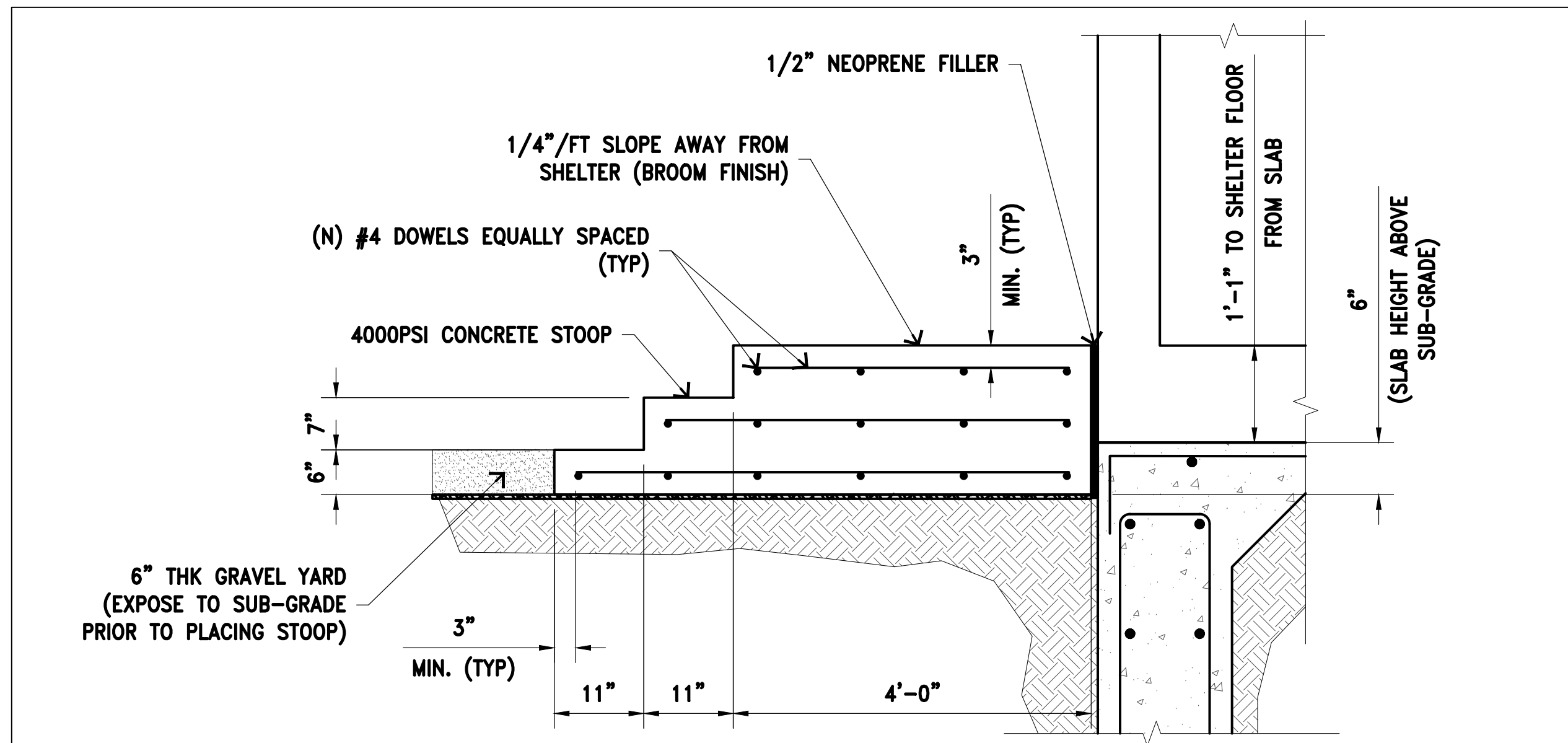
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EQUIPMENT PAD
DETAILS

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MN.1083.19POPDEL

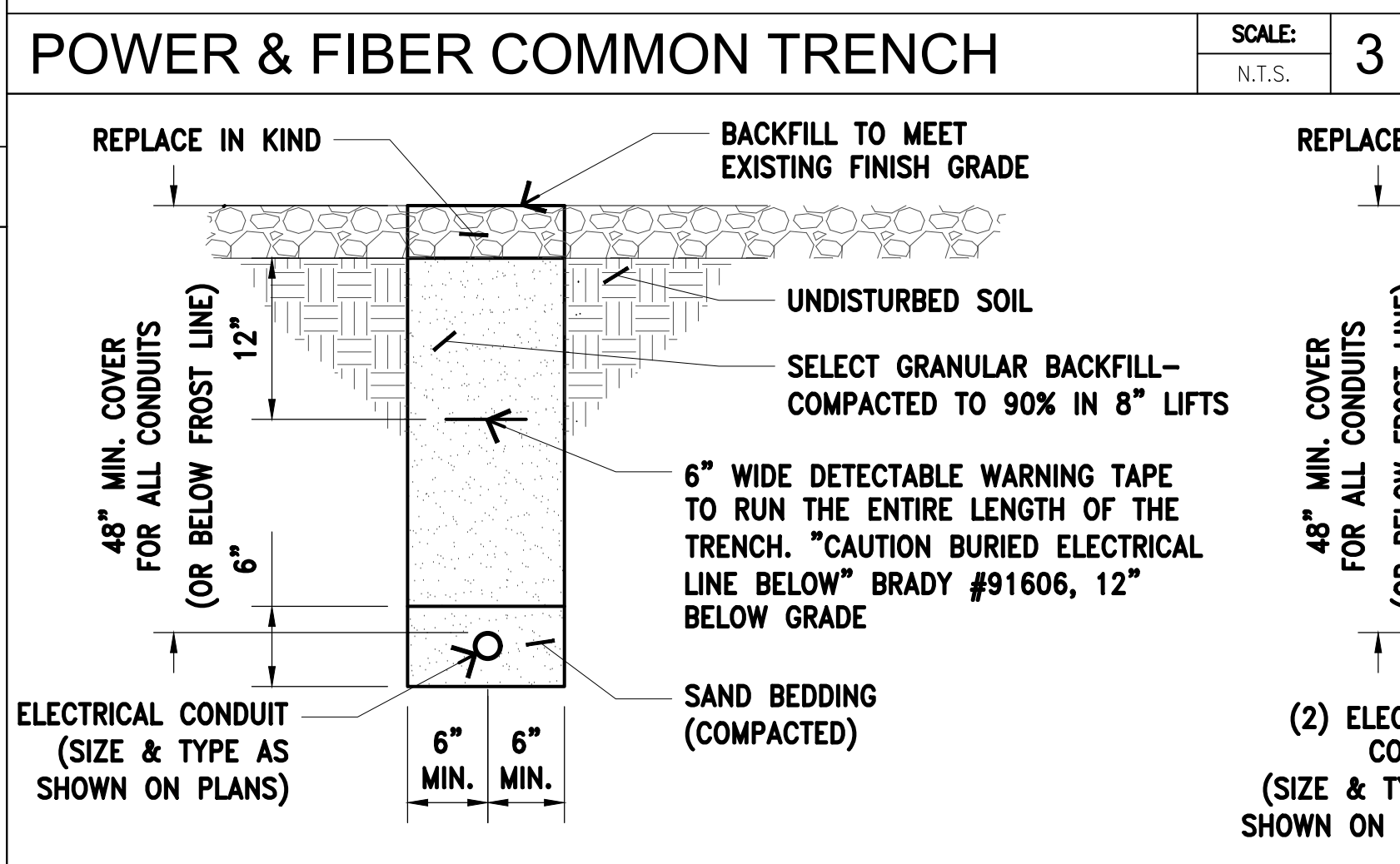
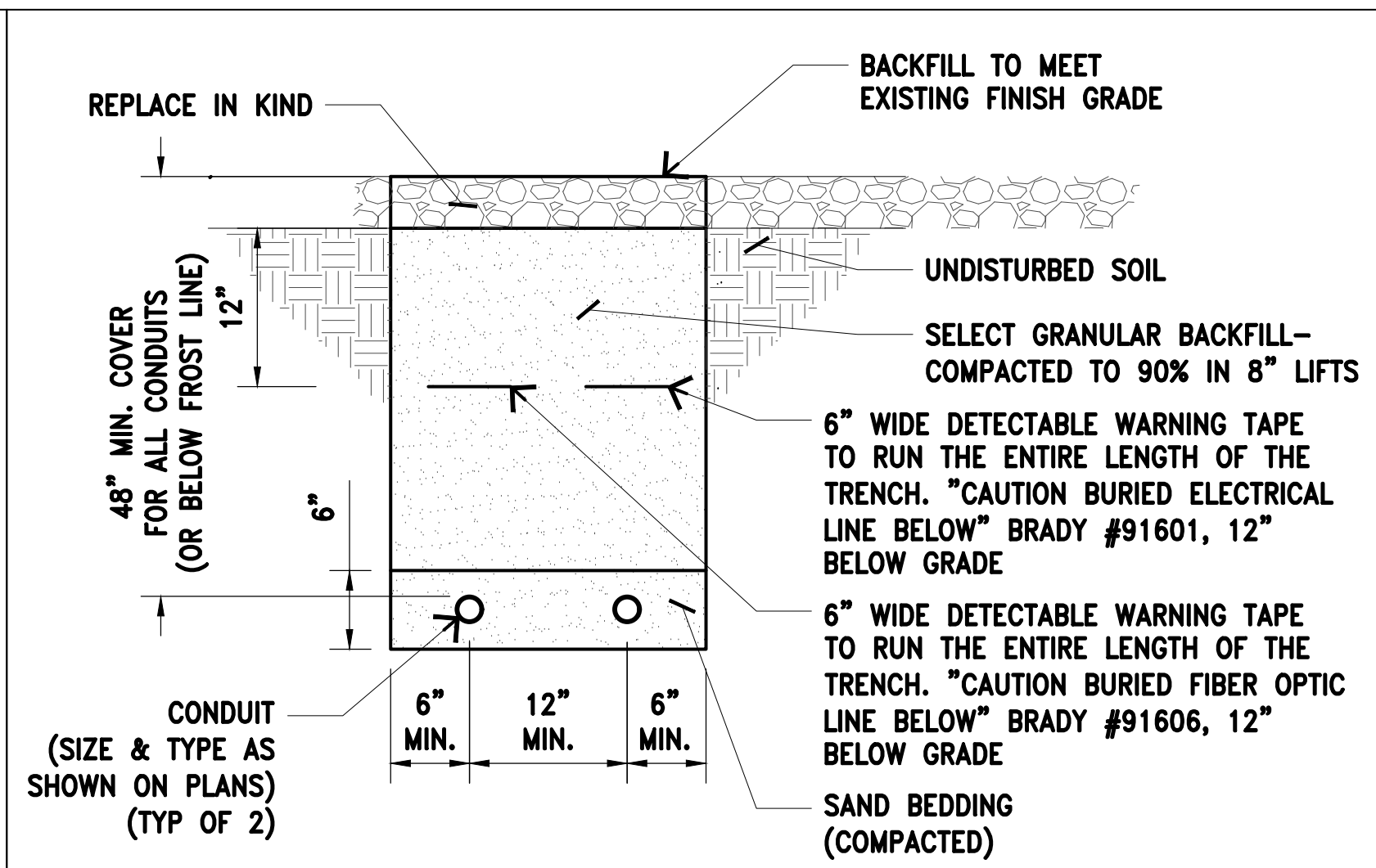




SCALE: 1 N.T.S. 1 SHELTER STOOP DETAIL

SCALE: 2 N.T.S. 2 GRAVEL YARD DETAIL

SCALE: 6 N.T.S. 6 STUB-UP DETAILS



INSTALLATION NOTES FOR POST-INSTALLED ANCHORS:

- CENTER OF ANCHORS TO HAVE MINIMUM OF 12" DISTANCE TO CONCRETE EDGES/SEAMS AND OTHER EXISTING OR ABANDONED ANCHORS.
- CONTRACTOR SHALL FIELD VERIFY CONCRETE THICKNESS PER TABLE BELOW.
- CONTRACTOR SHALL SCAN FOR AND LOCATE EXISTING REBAR BEFORE DRILLING. DO NOT CUT OR DAMAGE FOUNDATION REBAR, IF REBAR IS ENCOUNTERED DURING DRILLING OPERATIONS, NOTIFY EOR IMMEDIATELY. MINOR ADJUSTMENT TO ANCHOR LOCATION MAY BE REQUIRED.
- CONTRACTOR SHALL USE EQUIPMENT MANUFACTURER'S BOLTING LAYOUT AND SPECIFICATIONS. SPECIAL INSPECTIONS REQUIRED DURING INSTALLATION OF ANCHORS.
- MANUAL CLEANING OF THE DRILLED HOLE IS REQUIRED ACCORDING TO ANCHOR MANUFACTURER INSTRUCTIONS AND ICC-ES EVALUATION REPORT NO. ESR-4266.
- ABANDONED ANCHORS TO BE REMOVED OR CUT FLUSH WITH CONCRETE SURFACE. ANY REMAINING VOIDS SHALL BE FILLED WITH HILTI HIT-RE 500 V3 EPOXY (ICC ESR NO.3814).

INSTALLATION DETAILS FOR POST-INSTALLED SHELTER ANCHORS

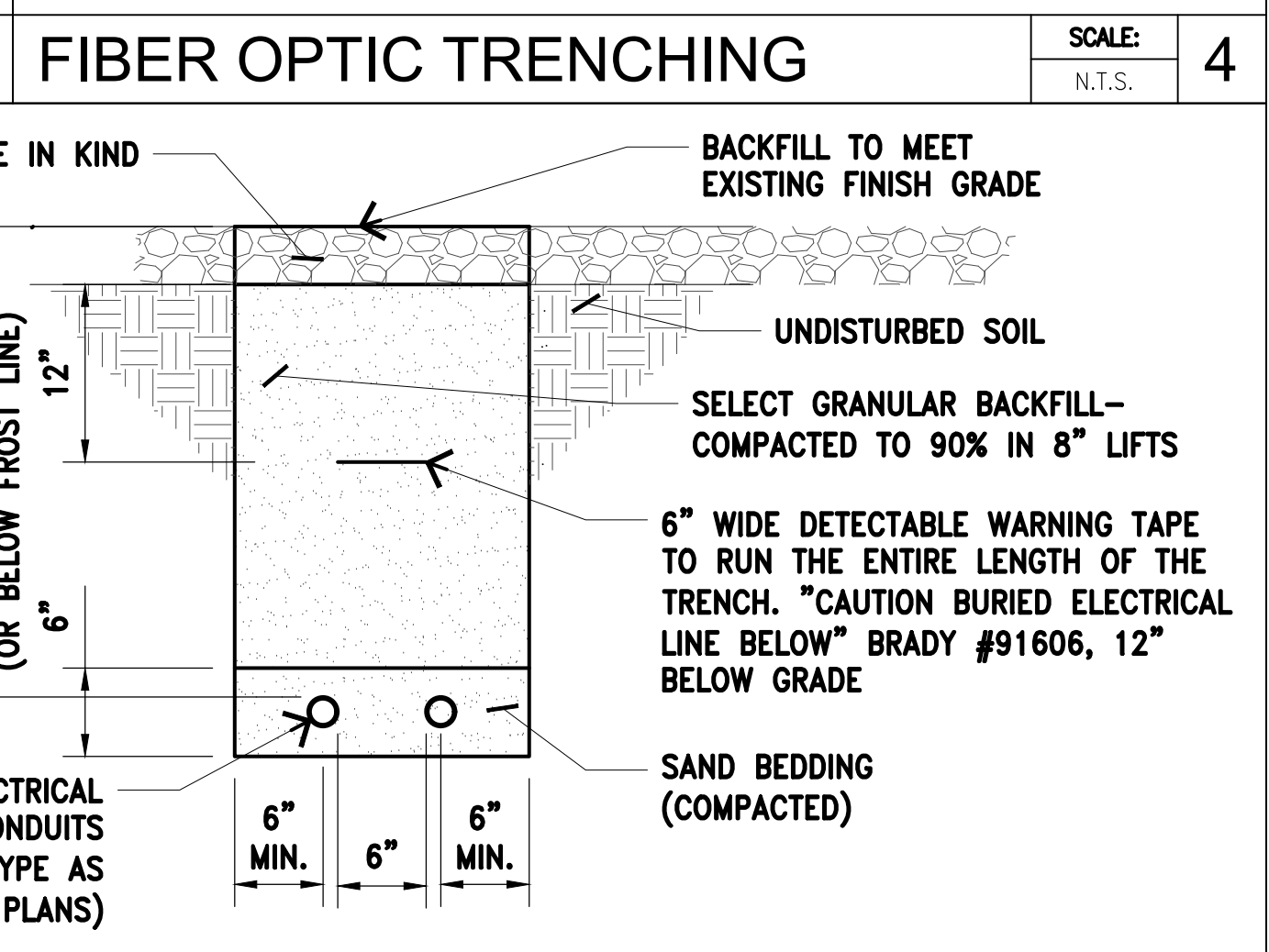
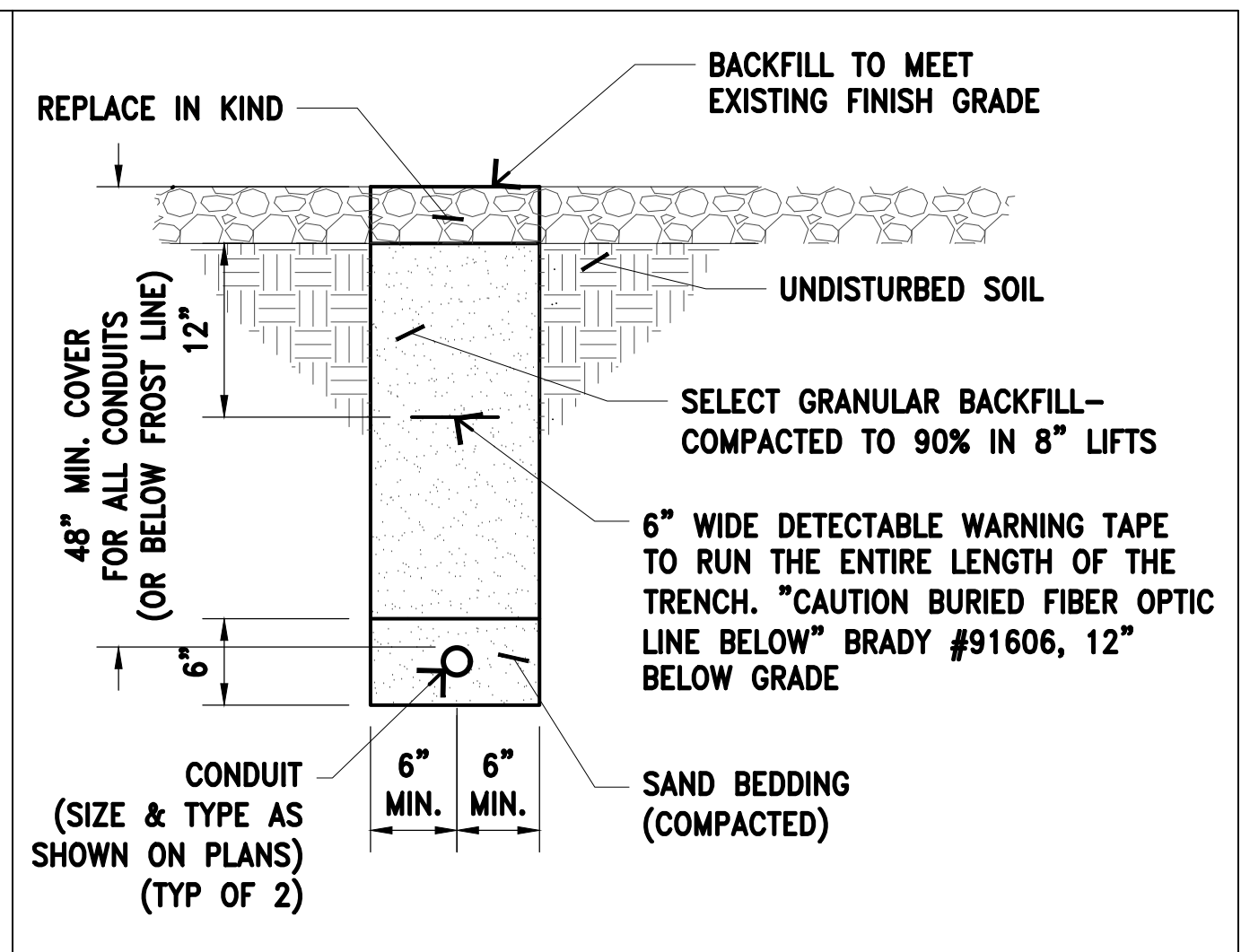
ANCHOR TYPES	HILTI KB-TZ2 STAINLESS STEEL
DIAMETER OF ANCHOR, DA (in)	0.625
MINIMUM EFFECTIVE EMBEDMENT, HEF (in)	3.250
MINIMUM NOMINAL EMBEDMENT, HNOM (in)	3.750
MINIMUM DRILL HOLE DEPTH, HO (in)	4.250**
MINIMUM CONCRETE SLAB THICKNESS, TCONC (in)	8.000*
REQUIRED INSTALLATION TORQUE	60 FT-LBS

*NOTIFY EOR IF MATERIAL THICKNESS DOES NOT MEET MINIMUM VALUES SPECIFIED.
**HAMMER DRILL HOLE IN CONCRETE BASE MATERIAL AND CLEAN HOLE PER MANUFACTURER'S SPECIFICATIONS

INSTALLATION DETAILS FOR POST-INSTALLED GENERATOR ANCHORS

ANCHOR TYPES	HILTI KB-TZ2 STAINLESS STEEL
DIAMETER OF ANCHOR, DA (in)	0.625
MINIMUM EFFECTIVE EMBEDMENT, HEF (in)	2.750
MINIMUM NOMINAL EMBEDMENT, HNOM (in)	3.250
MINIMUM DRILL HOLE DEPTH, HO (in)	3.750**
MINIMUM CONCRETE SLAB THICKNESS, TCONC (in)	6.000*
REQUIRED INSTALLATION TORQUE	60 FT-LBS

*NOTIFY EOR IF MATERIAL THICKNESS DOES NOT MEET MINIMUM VALUES SPECIFIED.
**HAMMER DRILL HOLE IN CONCRETE BASE MATERIAL AND CLEAN HOLE PER MANUFACTURER'S SPECIFICATIONS



INSTALLATION DETAILS FOR POST-INSTALLED SHELTER ANCHORS

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**HAMMER DRILL HOLE IN CONCRETE BASE MATERIAL AND CLEAN HOLE PER MANUFACTURER'S SPECIFICATIONS

IIG
Intermountain Infrastructure Group
533 AIRPORT BLVD, SUITE 400
BURLINGAME, CALIFORNIA 94010, US

PROJECT INFORMATION:
MN.1083.19POPDEL
DELANO
9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

CURRENT ISSUE DATE:
04/22/26

ISSUED FOR:
PRELIMINARY

REV.: DATE: DESCRIPTION: BY:
A 04/22/26 90% CD, ISSUED FOR REVIEW VJ

PLANS PREPARED BY:
NETWORK CONNEX
7151 COLUMBIA GATEWAY DRIVE, SUITE A
COLUMBIA, MD 21046
OFFICE: (443) 367-0003

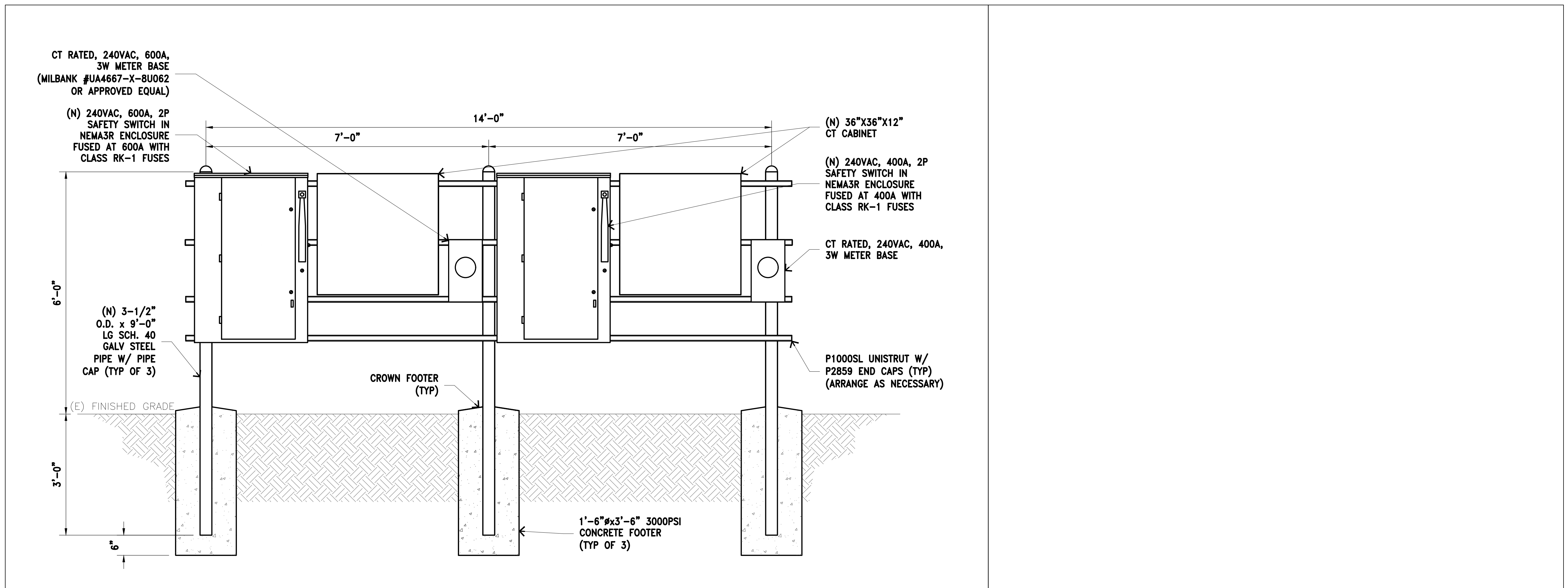
CONSULTANT:
NETWORK CONNEX
7151 COLUMBIA GATEWAY DRIVE, SUITE A
COLUMBIA, MD 21046
OFFICE: (443) 367-0003

DRAWN BY: VJ CHK.: PS APV.: NC

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
SIGNATURE: NAME: ANDREW M. MILLER DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:
TRENCHING DETAILS

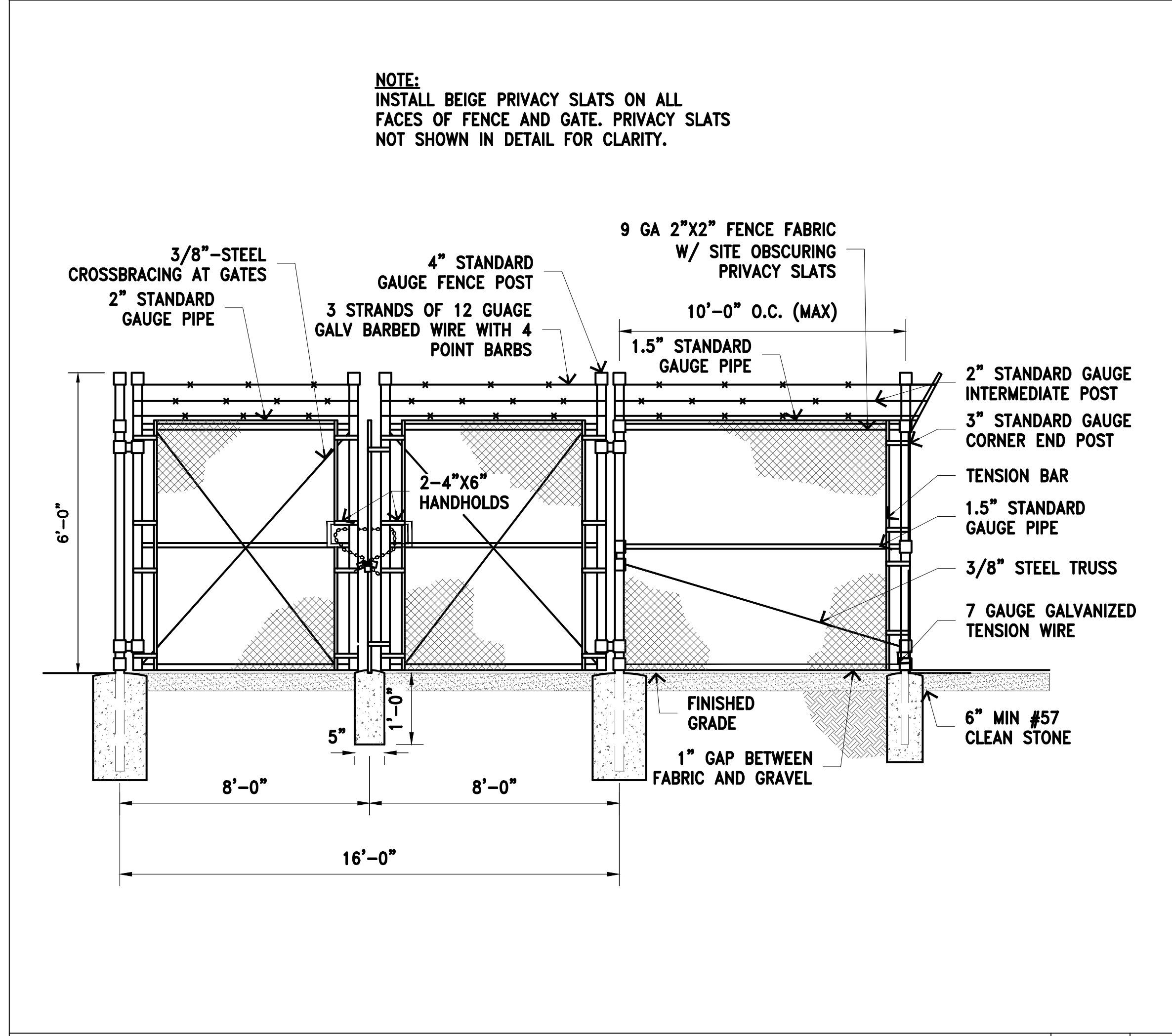
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MN.1083.19POPDEL



H-FRAME DETAIL

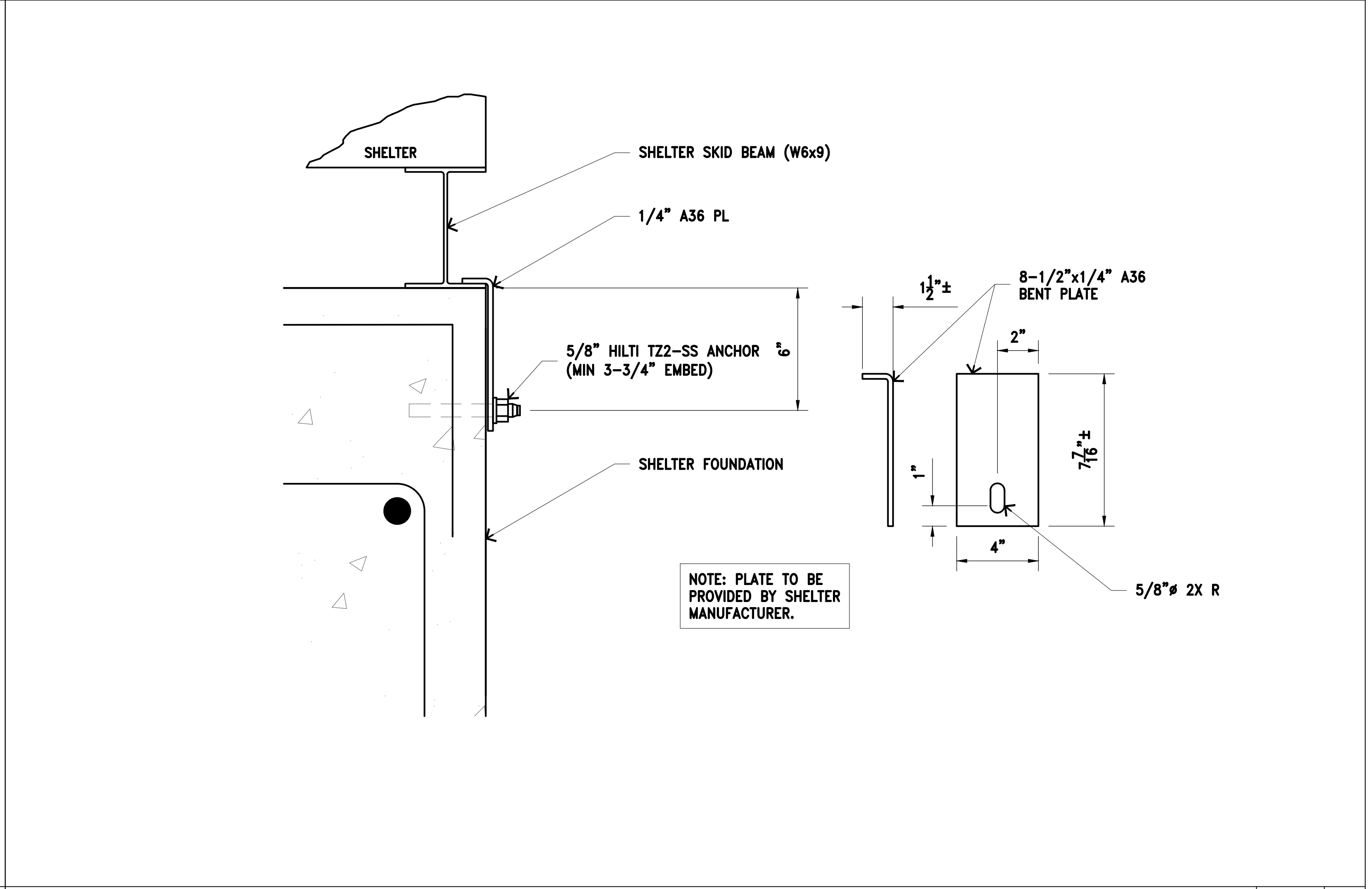
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SCALE: 2



TYPICAL FENCE AND GATE DETAIL

SCALE: 3



SHELTER TIE DOWN PLATE DETAIL

SCALE: 4



PROJECT INFORMATION:

MIN.1083.19POPDEL
DELANO

9385 COUNTY ROAD 26
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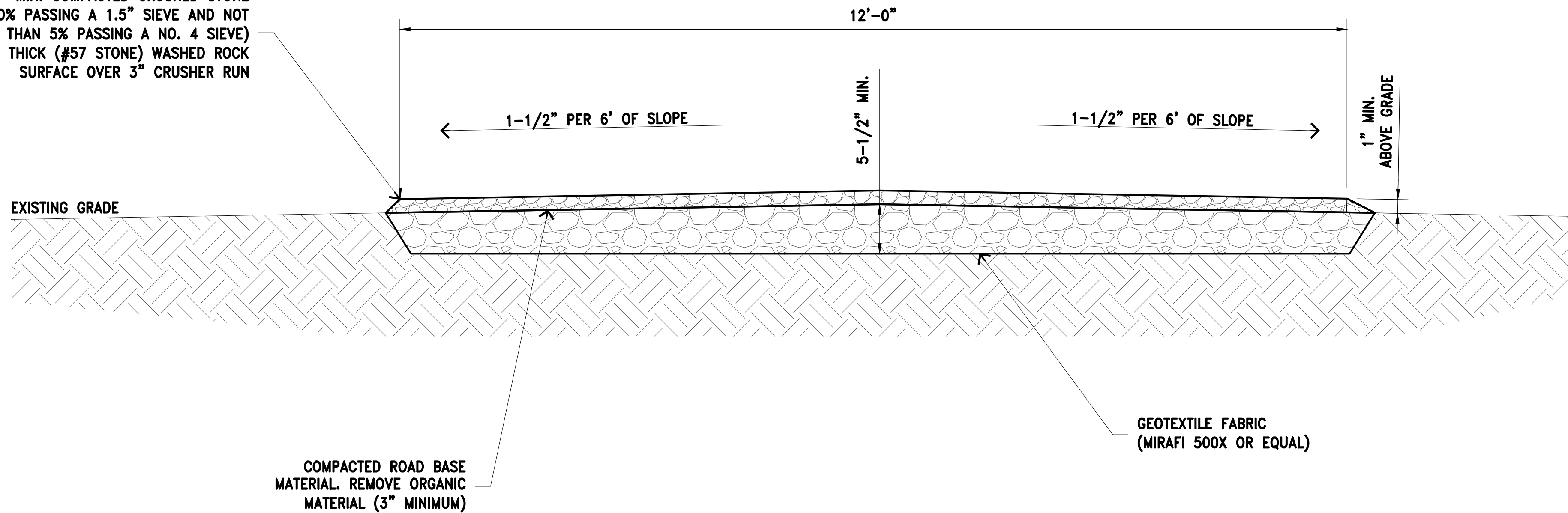
DETAILS AND SPECIFICATIONS I

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REVISION: A

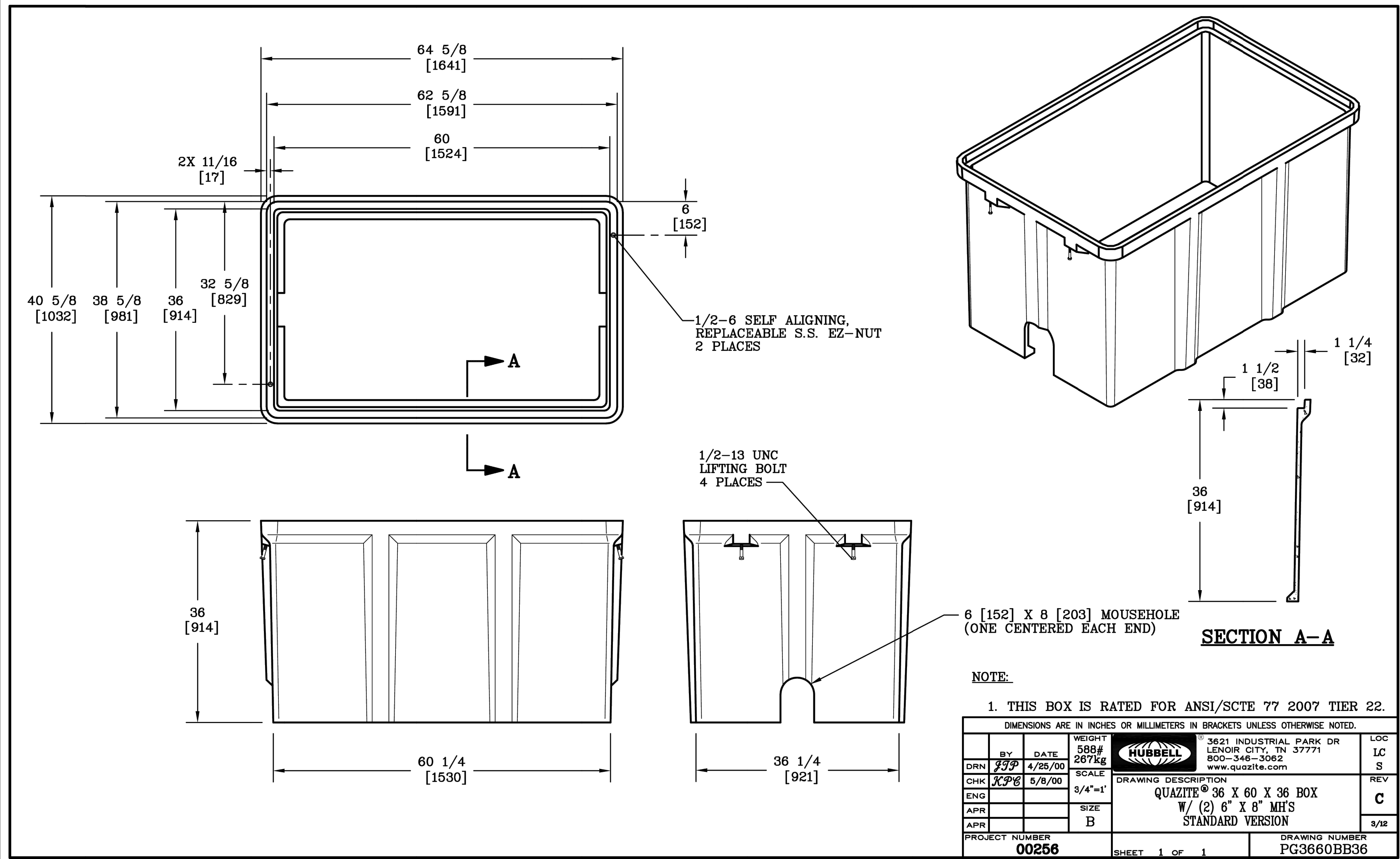
MIN.1083.19POPDEL

4" MIN. COMPACTED CRUSHED STONE
(100% PASSING A 1.5" SIEVE AND NOT
MORE THAN 5% PASSING A NO. 4 SIEVE)
OR 1" THICK (#57 STONE) WASHED ROCK
SURFACE OVER 3" CRUSHER RUN



ACCESS DRIVE DETAIL

SCALE:
N.T.S. 1



NOT USED

SCALE:
N.T.S. 2

3'-0"x5'-0" VAULT DETAIL

SCALE:
N.T.S. 3



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9385 COUNTY ROAD 26
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NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

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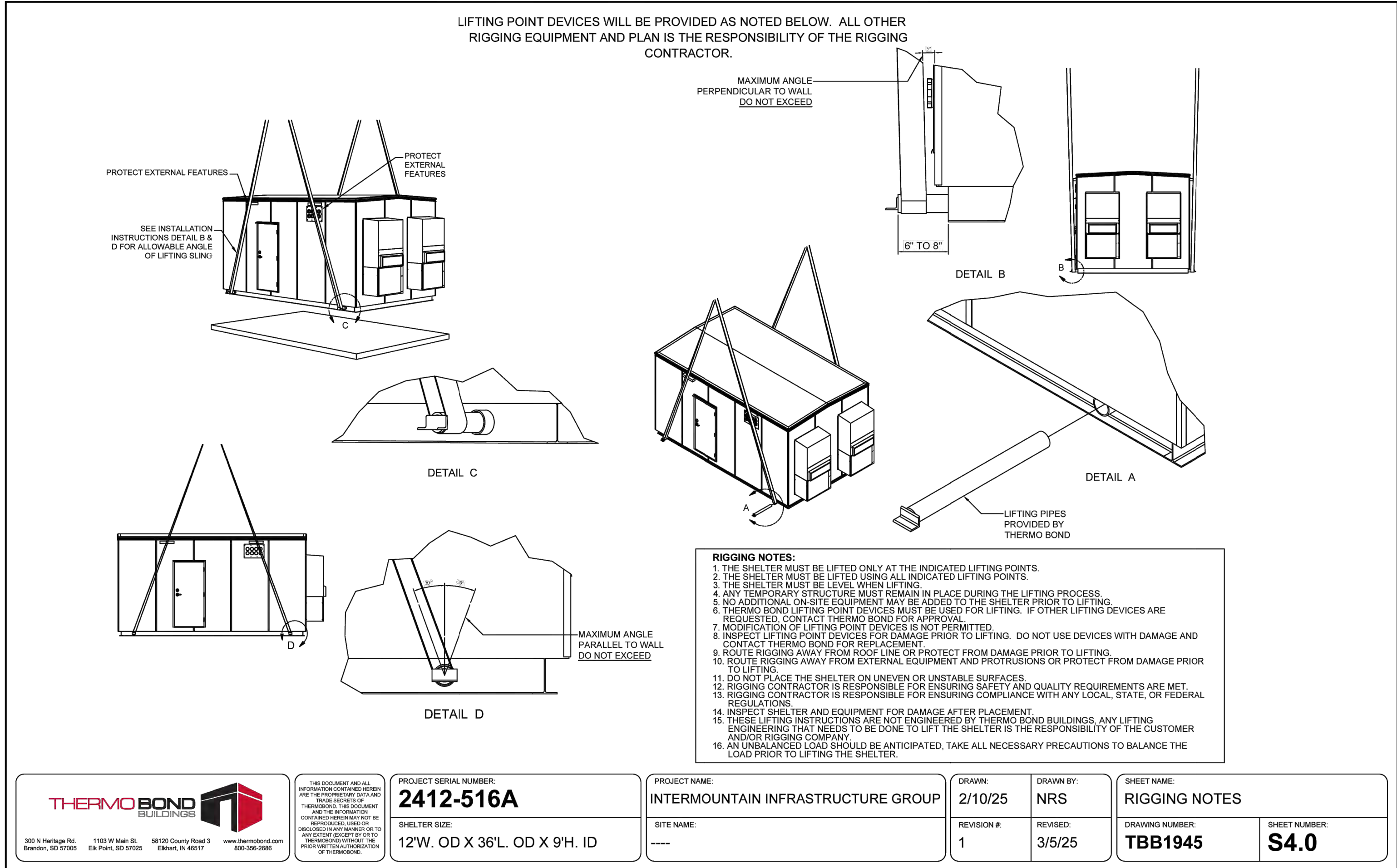
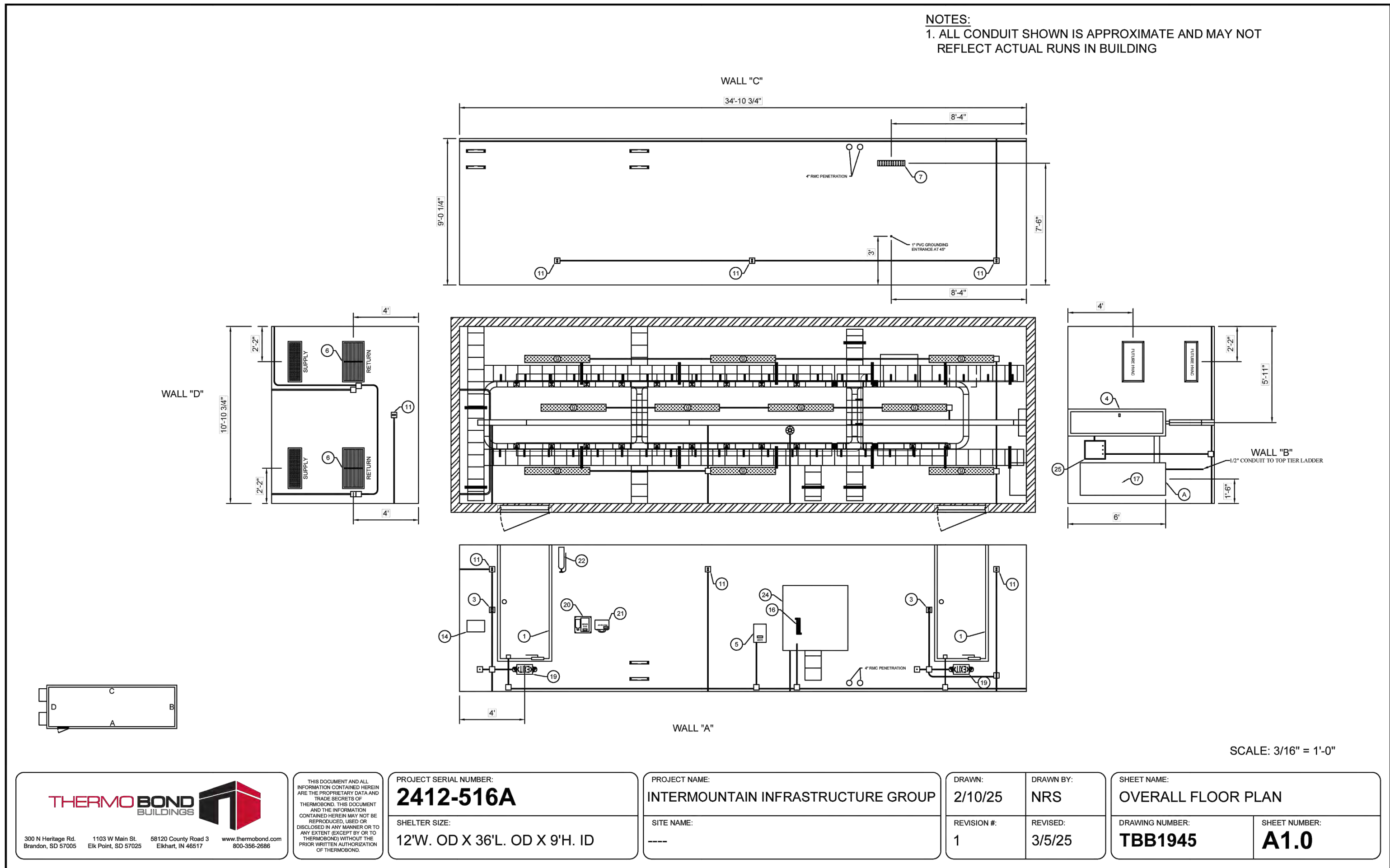
DETAILS AND
SPECIFICATIONS II

SHEET NUMBER: REVISION:

D-2

A

MN.1083.19POPDEL



PROJECT INFORMATION:

MN.1083.19POPDEL
DELANO

9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

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OFFICE: (443) 367-0003

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SIGNATURE:
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

DETAILS AND SPECIFICATIONS IV

SHEET NUMBER: REVISION:

D-4

A

MN.1083.19POPDEL

PROJECT INFORMATION:

MN.1083.19POPDEL
DELANO

9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

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04/22/26

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PLANS PREPARED BY:

**NETWORK
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CONSULTANT:

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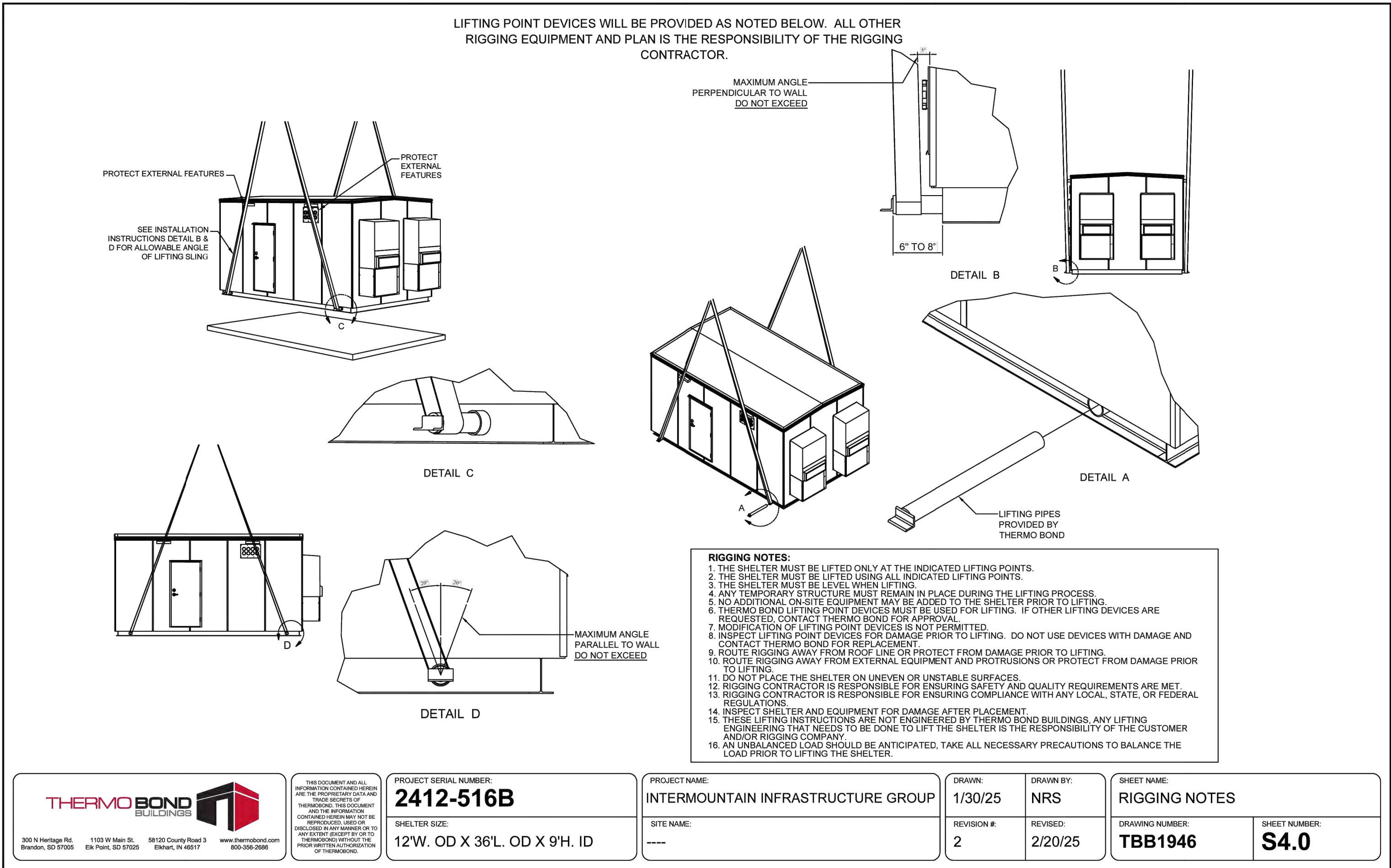
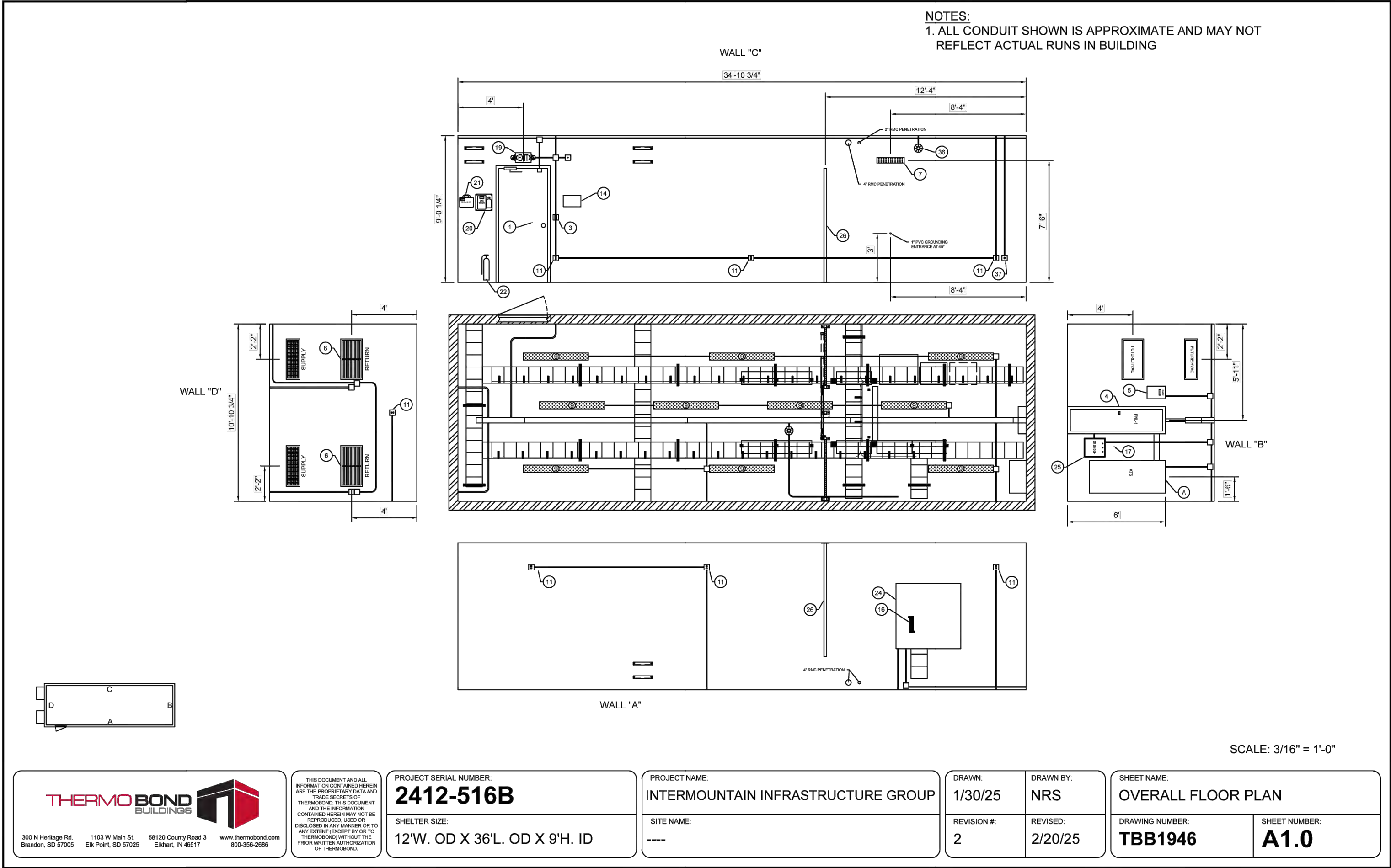
DETAILS AND
SPECIFICATIONS VI

SHEET NUMBER: REVISION:

D-6

A

MN.1083.19POPDEL



Cat® GC Enclosures



Image shown may not reflect actual configuration

Features

Robust/Highly Corrosion Resistant Construction

- Factory installed on skid base or 24hr Integral fuel tank
- Caterpillar white paint
- Environmentally friendly, polyester powder baked paint
- 18 gauge steel minimum.
- Zinc plated fasteners
- Stainless steel hinges
- Internally mounted exhaust silencing system
- Designed and tested to comply with UL 2200 Listed generator set package.
- Enclosures are weatherproof and are extremely rugged to withstand outdoor exposure to the elements of weather.
- Comply with ASCE /SEI 7 for Wind Loads up to 100mph
- Optional seismic certification offered
- Compression door latches providing solid door seal

Excellent Access

- Large cable entry area for installation ease
- Accommodates side mounted single or multiple breakers
- Single door on left hand side
- Dual doors on right hand side
- Doors vertically hinged allow 180° opening rotation
- Doors capable of lift off at 90° opening rotation
- For non-routine service access are removable panels
- Lube oil drain valve standard with coolant drain and valve piped to the exterior of the enclosure base
- Radiator fill cover

Security and Safety

- Lockable (keyed or padlock) doors which give full access to control panel and breaker
- Cooling fan and battery charging alternator fully guarded
- Fuel fill, oil fill and battery can only be reached via lockable access
- Optional externally mounted emergency stop button
- Designed for spreader bar lifting to ensure safety
- Stub-up area is rodent proof

- Options
- Skid base compatible
- UL Listed integral fuel tank with 24 hour running time capacity
- DC lighting package

LEHE20120-04



Cat® GC Enclosures

Enclosure Package Operating Characteristics

A. Sound Attenuated- Level 2

Model	Hz	ekW	SB	Sound Pressure Levels dBA		Air Flow Rate		Ambient Capability* @100% Load	
				7m (23ft)	100% Load	m³/s	cfm	°C	°F
D40 GC	60	40	SB	67.7		1.5	3178.3	60	140
D50 GC	60	50	SB	68.6		1.5	3178.3	54	129
D60 GC	60	60	SB	69.6		1.5	3178.3	48	118
D80 GC	60	80	SB	76.5		3.5	7416.1	60	140
D100 GC	60	100	SB	76.4		3.5	7416.1	52	126
D125 GC	60	125	SB	74.8		3.4	7204.2	61	142
D150 GC	60	150	SB	75.4		3.4	7204.2	54	129
D175 GC	60	175	SB	79.3		4.1	8687.4	49	120
D200 GC	60	200	SB	79.5		4.1	8687.4	44	111

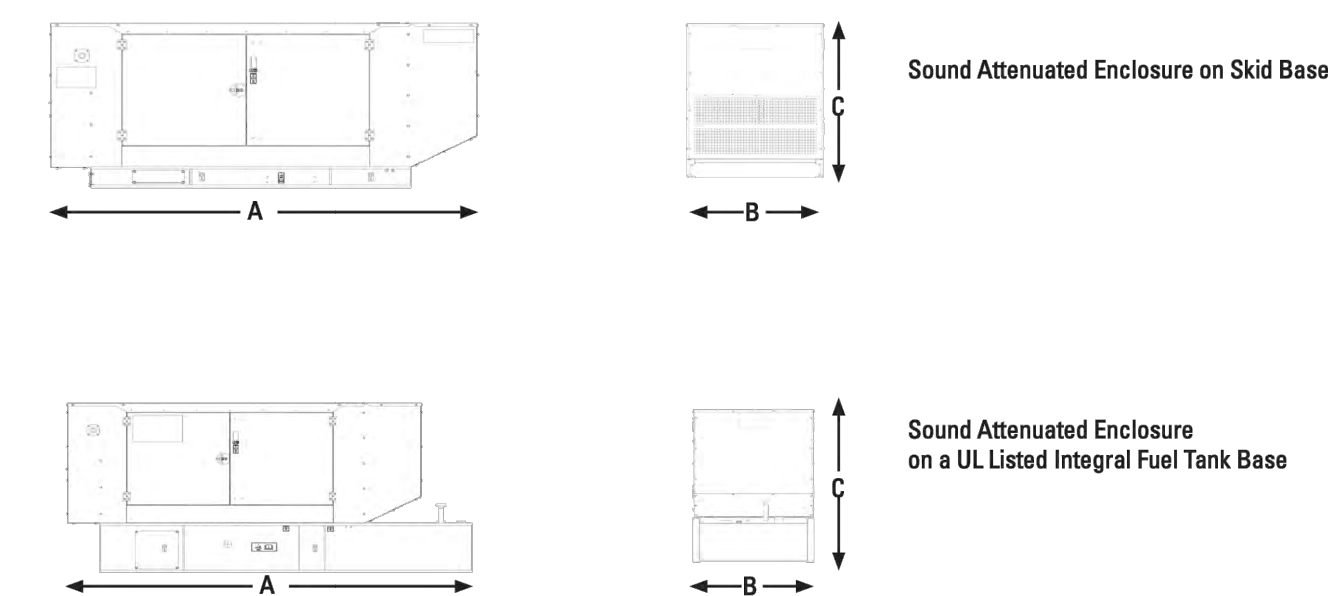
*Cooling system performance at sea level. Consult your Cat dealer for site specific ambient and altitude capabilities.

*Note: Sound level measurements are subject to instrumentation, installation and manufacturing variability, as well as ambient site conditions.

B. Component Weights to Calculate Package Weight

Standby ekW	Wide Skid Base		Sound Attenuated Enclosure (Steel)	
	kg	lb	kg	lb
40-60	92.6	204.1	178.8	394.2
80-100	96.2	212.1	189.1	416.9
125-200	115.9	255.5	274.4	604.9

C. Weights & Dimensions



*Note: For reference only – do not use for installation design. Please contact your local dealer for exact weights and dimensions

LEHE20120-04

Page 2/3

Cat® GC Enclosures

Enclosure Type	Standby ratings ekW	Length, L		Width, W		Height, H		Package Weights	
		mm	in	mm	in	mm	in	kg	lb
Open Set on Skid (wide Base)	40	1976	77.2	1099.8	43.3	1219.2	48.0	837.7	1847
	50	1976	77.2	1099.8	43.3	1219.2	48.0	931.6	2054
	60	1976	77.2	1099.8	43.3	1219.2	48.0	905.8	1997
	80	2098	82.6	1099.8	43.3	1343.6	52.9	950.2	2095
	100	2098	82.6	1099.8	43.3	1343.6	52.9	1007.8	2222
	125	2634	103.7	1300.4	51.2	1402	55.2	1405.6	3099
	150	2634	103.7	1300.4	51.2	1402	55.2	1561.7	3443
	175	2634	103.7	1300.4	51.2	1490.9	58.7	1696.8	3741
Open Set on a UL Listed Integral Fuel Tank Base	200	2634	103.7	1300.4	51.2	1490.9	58.7	1776.7	3917
	40	2707.6	106.6	1099.8	43.3	1384.3	54.5	1536.3	3387
	50	2707.6	106.6	1099.8	43.3	1384.3	54.5	1630.2	3594
	60	2707.6	106.6	1099.8	43.3	1384.3	54.5	1604.3	3537
	80	3035.3	119.5	1099.8	43.3	1582.4	62.3	1914.1	4220
	100	3035.3	119.5	1099.8	43.3	1582.4	62.3	1972.2	4348
	125	3670.3	144.5	1300.4	51.2	1757.6	69.2	3207.8	7072
	150	3670.3	144.5	1300.4	51.2	1757.6	69.2	3363.3	7415
Sound Attenuated Enclosure on Skid Base	175	3670.3	144.5	1300.4	51.2	1846.6	72.7	3498.5	7713
	200	3670.3	144.5	1300.4	51.2	1846.6	72.7	3578.4	7889
	40	2456.1	96.1	1120.1	44.1	1330.9	52.4	1016.5	2241
	50	2456.1	96.1	1120.1	44.1	1330.9	52.4	1110.4	2448
	60	2456.1	96.1	1120.1	44.1	1330.9	52.4	1084.5	2391
	80	2768.6	109.0	1120.1	44.1	1432.5	56.4	1139.4	2512
	100	2768.6	109.0	1120.1	44.1	1432.5	56.4	1197.0	2639
	125	2633.9	103.7	1318.2	51.9	1569.7	61.8	1680.1	3704
Sound Attenuated Enclosure on a UL Listed Integral Fuel Tank Base	150	2633.9	103.7	1318.2	51.9	1569.7	61.8	1836.1	4048
	175	2633.9	103.7	1318.2	51.9	1569.7	61.8	1971.3	4346
	200	2633.9	103.7	1318.2	51.9	1569.7	61.8	2051.1	4522
	40	2931.1	115.4	1120.1	44.1	1496	58.9	1715.0	3781
	50	2931.1	115.4	1120.1	44.1	1496	58.9	1808.9	3988
	60	2931.1	115.4	1120.1	44.1	1496	58.9	1783.1	3931
	80	3256.2	128.2	1120.1	44.1	1673.8	65.9	2103.3	4637
	100	3256.2	128.2	1120.1	44.1	1673.8	65.9	2161.4	4765
	125	4008.1	157.8	1318.2	51.9	1925.3	75.8	3481.8	7676
	150	4008.1	157.8	1318.2	51.9	1925.3	75.8	3637.8	8020
	175	4008.1	157.8	1318.2	51.9	1925.3	75.8	3773.0	8318
	200	4008.1	157.8	1318.2	51.9	1925.3	75.8	3852.8	8494

*Note: Weights include genset, enclosure (where applicable), tank and fuel (where applicable)

LET'S DO THE WORK.™

LEHE20120-04 (05/24)

www.cat.com/electrifypower

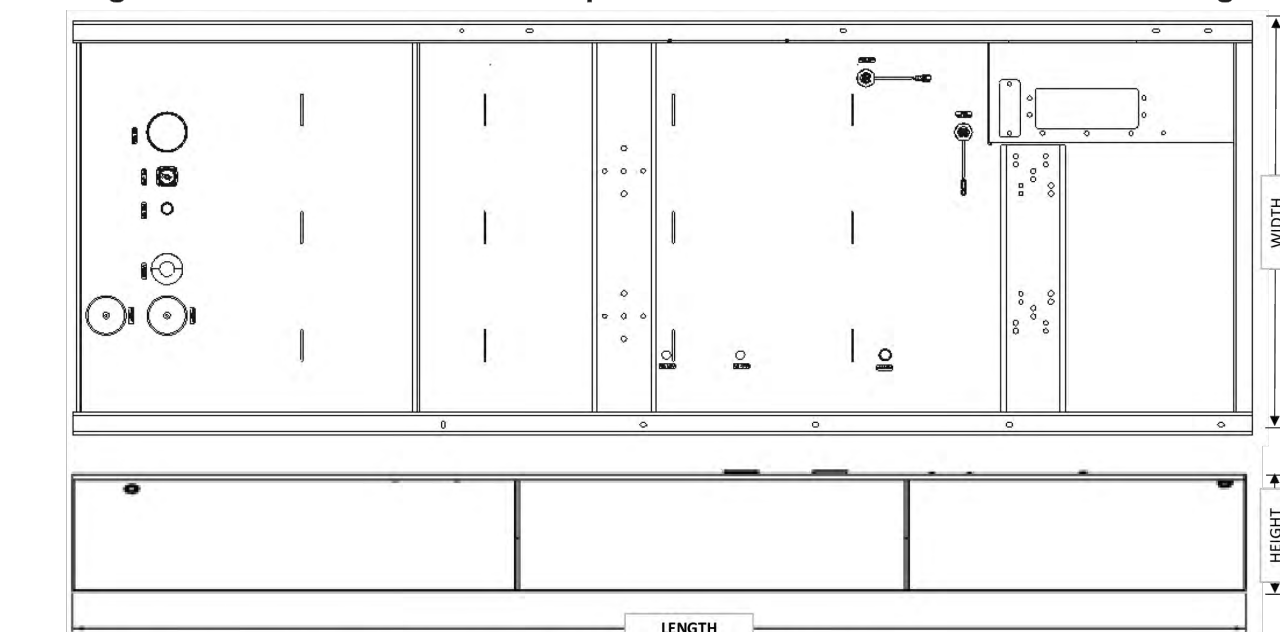
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Page 3/3



Cat® GC Integral Fuel Tanks

Integral Fuel Tank Base Useable Capacities with Fuel Tank Dimensions & Weights



The heights listed above do not include lumber used during manufacturing and shipping

A. Open Set & Sound Attenuated Enclosure

Standby ekW	Feature Code	Total Capacity		Useable Capacity	
		Litre	Gallon	Litre	Gallon
40-60	FTDW044	523	138.2	466	123.1
80-100	FTDW043	769	203.1	690	182.3
125-200	FTDW045	1511	399.2	1355	357.9

Standby ekW	Feature Code	Tank Only								Overall Package Height with Tank			
		Dry Weight		Height 'H'		Length 'L'		Width		Open		Enclosure	
		kg	lb	mm	in	mm	in	mm	in	mm	in	mm	in
40-60	FTDW044	387.5	853.2	365	14.4	2708	106.6	1100	43.3	1384	54.5	1496	58.9
80-100	FTDW043	462.5	1019.6	440	17.3	3035	119.5	1100	43.3	1583	62.3	1673	65.9
125-200	FTDW045	736.1	1622.8	555	21.9	3670	144.5	1300	51.2	1847	72.7	1925	75.8

LEHE2681-00

Page 2 of 3



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MN.1083.19POPDEL
DELANO9385 COUNTY ROAD 26
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DRAWN BY: CHK.: APV.:

VJ	PS	NC
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PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MINNESOTA.SIGNATURE:
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

DETAILS AND
SPECIFICATIONS VII

SHEET NUMBER: REVISION:

D-7

A

MN.1083.19POPDEL

Cat® GC Enclosures



Image shown may not reflect actual configuration

Features

Robust/Highly Corrosion Resistant Construction

- Factory installed on skid base or 24hr Integral fuel tank
- Caterpillar white paint
- Environmentally friendly, polyester powder baked paint
- 18 gauge steel minimum.
- Zinc plated fasteners
- Stainless steel hinges
- Internally mounted exhaust silencing system
- Designed and tested to comply with UL 2200 Listed generator set package.
- Enclosures are weatherproof and are extremely rugged to withstand outdoor exposure to the elements of weather.
- Comply with ASCE/SEI 7 for Wind Loads up to 100mph
- Optional seismic certification offered
- Compression door latches providing solid door seal

Excellent Access

- Large cable entry area for installation ease
- Accommodates side mounted single or multiple breakers
- Single door on left hand side
- Dual doors on right hand side
- Doors vertically hinged allow 180° opening rotation
- Doors capable of lift off at 90° opening rotation
- For non-routine service access are removable panels
- Lube oil drain valve standard with coolant drain and valve piped to the exterior of the enclosure base
- Radiator fill cover

Security and Safety

- Lockable (keyed or padlock) doors which give full access to control panel and breaker
- Cooling fan and battery charging alternator fully guarded
- Fuel fill, oil fill and battery can only be reached via lockable access
- Optional externally mounted emergency stop button
- Designed for spreader bar lifting to ensure safety
- Stub-up area is rodent proof

- Options
- Skid base compatible
- UL Listed integral fuel tank with 24 hour running time capacity
- DC lighting package

LEHE20120-04



Cat® GC Enclosures

Enclosure Package Operating Characteristics

A. Sound Attenuated- Level 2

Model	Hz	ekW	SB	Sound Pressure Levels dBA		Air Flow Rate		Ambient Capability*	
				7m (23ft)	100% Load	m³/s	cfm	°C	°F
D40 GC	60	40	SB	67.7		1.5	3178.3	60	140
D50 GC	60	50	SB	68.6		1.5	3178.3	54	129
D60 GC	60	60	SB	69.6		1.5	3178.3	48	118
D80 GC	60	80	SB	76.5		3.5	7416.1	60	140
D100 GC	60	100	SB	76.4		3.5	7416.1	52	126
D125 GC	60	125	SB	74.8		3.4	7204.2	61	142
D150 GC	60	150	SB	75.4		3.4	7204.2	54	129
D175 GC	60	175	SB	79.3		4.1	8687.4	49	120
D200 GC	60	200	SB	79.5		4.1	8687.4	44	111

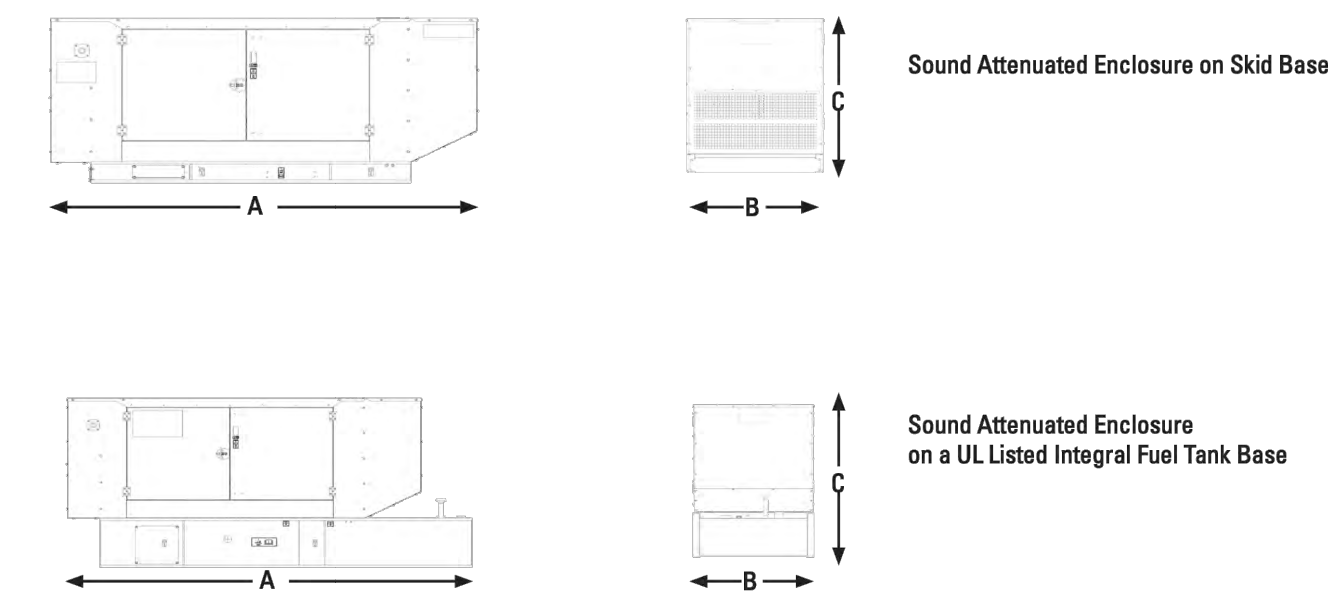
*Cooling system performance at sea level. Consult your Cat dealer for site specific ambient and altitude capabilities.

*Note: Sound level measurements are subject to instrumentation, installation and manufacturing variability, as well as ambient site conditions.

B. Component Weights to Calculate Package Weight

Standby ekW	Wide Skid Base		Sound Attenuated Enclosure (Steel)	
	kg	lb	kg	lb
40-60	92.6	204.1	178.8	394.2
80-100	96.2	212.1	189.1	416.9
125-200	115.9	255.5	274.4	604.9

C. Weights & Dimensions



*Note: For reference only – do not use for installation design. Please contact your local dealer for exact weights and dimensions

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Page 2/3

Cat® GC Enclosures

Enclosure Type	Standby ratings ekW	Length, L		Width, W		Height, H		Package Weights	
		mm	in	mm	in	mm	in	kg	lb
Open Set on Skid (wide Base)	40	1976	77.2	1099.8	43.3	1219.2	48.0	837.7	1847
	50	1976	77.2	1099.8	43.3	1219.2	48.0	931.6	2054
	60	1976	77.2	1099.8	43.3	1219.2	48.0	905.8	1997
	80	2098	82.6	1099.8	43.3	1343.6	52.9	950.2	2095
	100	2098	82.6	1099.8	43.3	1343.6	52.9	1007.8	2222
	125	2634	103.7	1300.4	51.2	1402	55.2	1405.6	3099
	150	2634	103.7	1300.4	51.2	1402	55.2	1561.7	3443
	175	2634	103.7	1300.4	51.2	1490.9	58.7	1696.8	3741
Open Set on a UL Listed Integral Fuel Tank Base	200	2634	103.7	1300.4	51.2	1490.9	58.7	1776.7	3917
	40	2707.6	106.6	1099.8	43.3	1384.3	54.5	1536.3	3387
	50	2707.6	106.6	1099.8	43.3	1384.3	54.5	1630.2	3594
	60	2707.6	106.6	1099.8	43.3	1384.3	54.5	1604.3	3537
	80	3035.3	119.5	1099.8	43.3	1582.4	62.3	1914.1	4220
	100	3035.3	119.5	1099.8	43.3	1582.4	62.3	1972.2	4348
	125	3670.3	144.5	1300.4	51.2	1757.6	69.2	3207.8	7072
	150	3670.3	144.5	1300.4	51.2	1757.6	69.2	3363.3	7415
Sound Attenuated Enclosure on Skid Base	175	3670.3	144.5	1300.4	51.2	1846.6	72.7	3498.5	7713
	200	3670.3	144.5	1300.4	51.2	1846.6	72.7	3578.4	7889
	40	2456.1	96.1	1120.1	44.1	1330.9	52.4	1016.5	2241
	50	2456.1	96.1	1120.1	44.1	1330.9	52.4	1110.4	2448
	60	2456.1	96.1	1120.1	44.1	1330.9	52.4	1084.5	2391
	80	2768.6	109.0	1120.1	44.1	1432.5	56.4	1139.4	2512
	100	2768.6	109.0	1120.1	44.1	1432.5	56.4	1197.0	2639
	125	2633.9	103.7	1318.2	51.9	1569.7	61.8	1680.1	3704
Sound Attenuated Enclosure on a UL Listed Integral Fuel Tank Base	150	2633.9	103.7	1318.2	51.9	1569.7	61.8	1836.1	4048
	175	2633.9	103.7	1318.2	51.9	1569.7	61.8	1971.3	4346
	200	2633.9	103.7	1318.2	51.9	1569.7	61.8	2051.1	4522
	40	2931.1	115.4	1120.1	44.1	1496	58.9	1715.0	3781
	50	2931.1	115.4	1120.1	44.1	1496	58.9	1808.9	3988
	60	2931.1	115.4	1120.1	44.1	1496	58.9	1783.1	3931
	80	3256.2	128.2	1120.1	44.1	1673.8	65.9	2103.3	4637
	100	3256.2	128.2	1120.1	44.1	1673.8	65.9	2161.4	4765
	125	4008.1	157.8	1318.2	51.9	1925.3	75.8	3481.8	7676
	150	4008.1	157.8	1318.2	51.9	1925.3	75.8	3637.8	8020
	175	4008.1	157.8	1318.2	51.9	1925.3	75.8	3773.0	8318
	200	4008.1	157.8	1318.2	51.9	1925.3	75.8	3852.8	8494

*Note: Weights include genset, enclosure (where applicable), tank and fuel (where applicable)

LET'S DO THE WORK.™

LEHE20120-04 (05/24)

www.cat.com/electrifypower

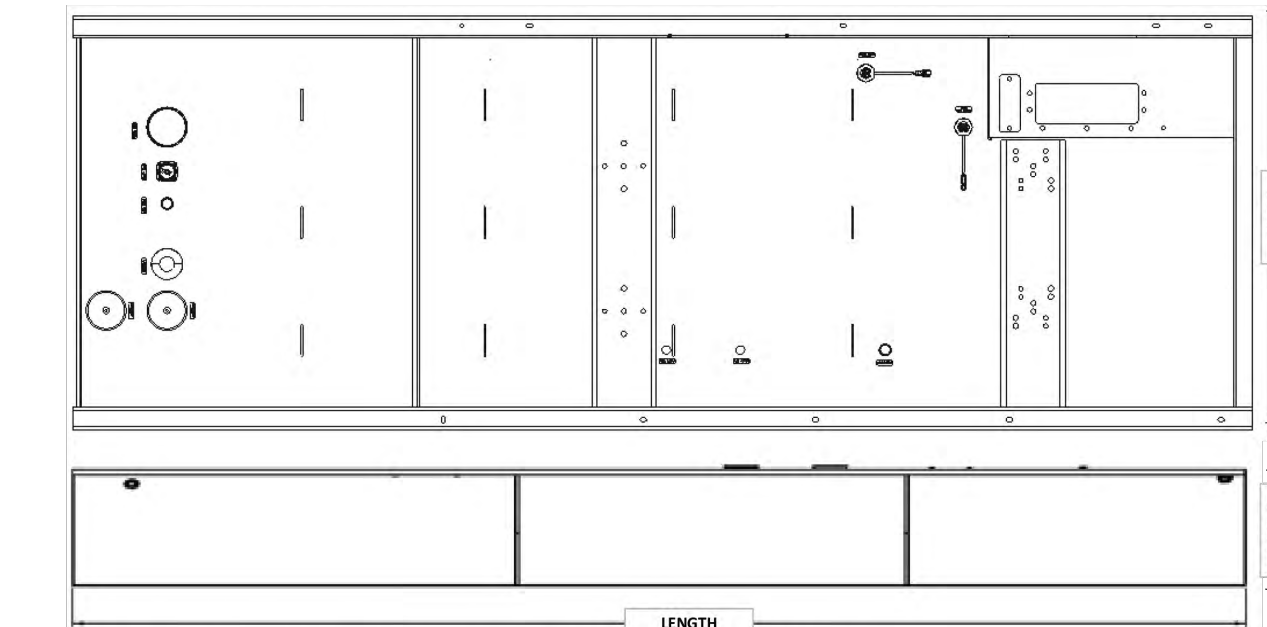
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Cat® GC Integral Fuel Tanks

Integral Fuel Tank Base Useable Capacities with Fuel Tank Dimensions & Weights



The heights listed above do not include lumber used during manufacturing and shipping

A. Open Set & Sound Attenuated Enclosure

Standby ekW	Feature Code	Total Capacity		Useable Capacity	
		Litre	Gallon	Litre	Gallon
40-60	FTDW044	523	138.2	466	123.1
80-100	FTDW043	769	203.1	690	182.3
125-200	FTDW045	1511	399.2	1355	357.9

Standby ekW	Feature Code	Tank Only								Overall Package Height with Tank			
		Dry Weight		Height 'H'		Length 'L'		Width		Open		Enclosure	
		kg	lb	mm	in	mm	in	mm	in	mm	in	mm	in
40-60	FTDW044	387.5	853.2	365	14.4	2708	106.6	1100	43.3	1384	54.5	1496	58.9
80-100	FTDW043	462.5	1019.6	440	17.3	3035	119.5	1100	43.3	1583	62.3	1673	65.9
125-200	FTDW045	736.1	1622.8	555	21.9	3670	144.5	1300	51.2	1847	72.7	1925	75.8

LEHE2681-00

Page 2 of 3



PROJECT INFORMATION:

MN.1083.19POPDEL
DELANO

9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

CURRENT ISSUE DATE:

04/22/26

ISSUED FOR:

PRELIMINARY

REV.: DATE: DESCRIPTION: BY:

A	04/22/26	90% CD, ISSUED FOR REVIEW	VJ

PLANS PREPARED BY:



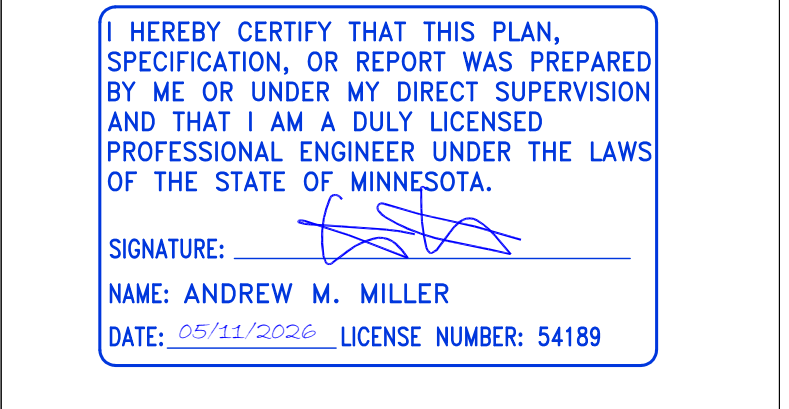
CONSULTANT:



DRAWN BY: CHK.: APV.:

VJ	PS	NC
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LICENSEURE:



SHEET TITLE:

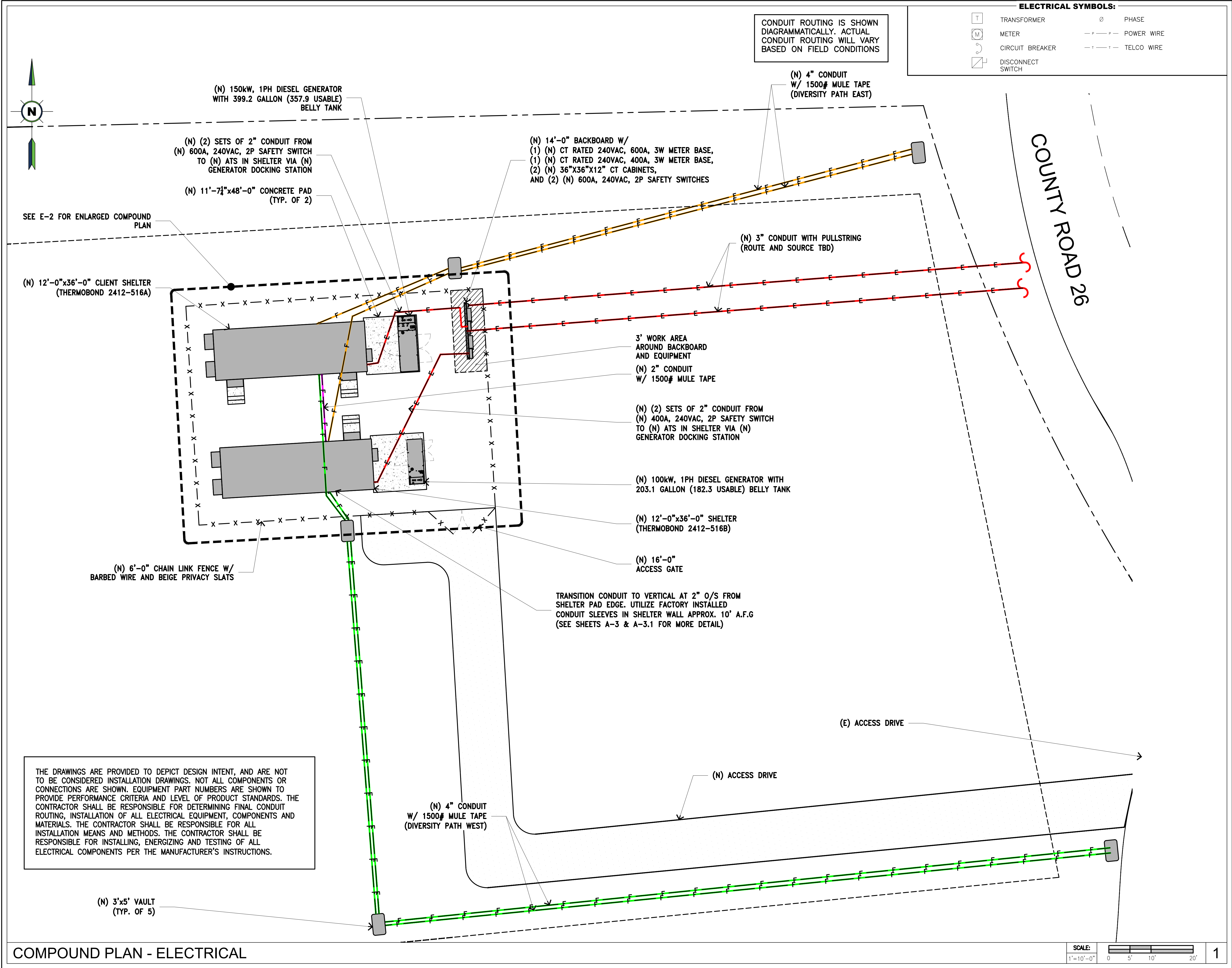
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SPECIFICATIONS VI

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DELANO
9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
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PLANS PREPARED BY:

**NETWORK
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7151 COLUMBIA GATEWAY DRIVE, SUITE A
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OFFICE: (443) 367-0003

CONSULTANT:

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LICENSURE:

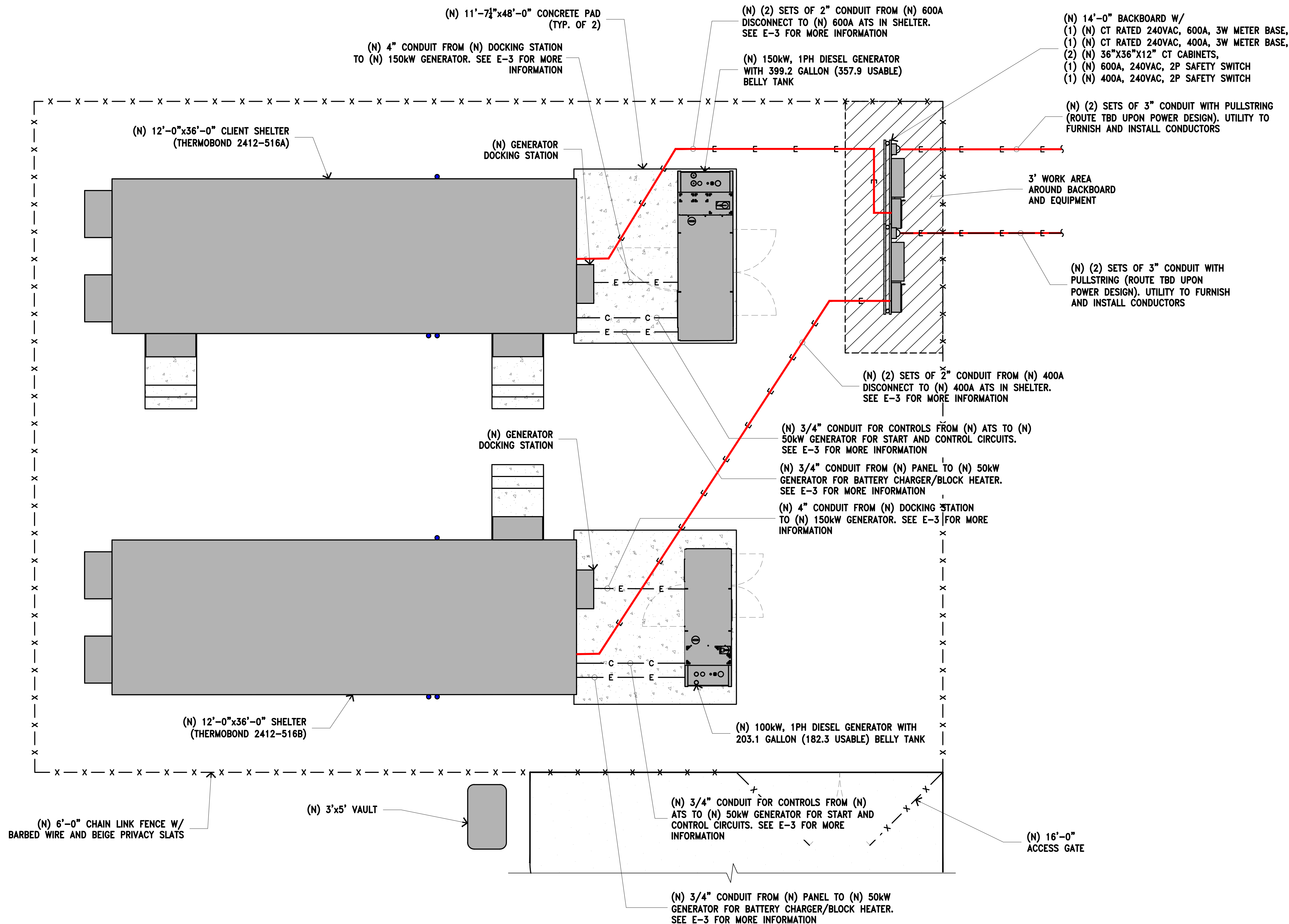
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SIGNATURE: [Signature]
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

COMPOUND PLAN
ELECTRICAL

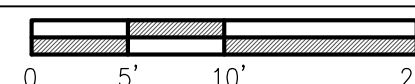
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E-1 A
MN.1083.19POPDEL



ENLARGED COMPOUND PLAN - ELECTRICAL

SCALE: 1"=10'-0"



1



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HENNEPIN COUNTY

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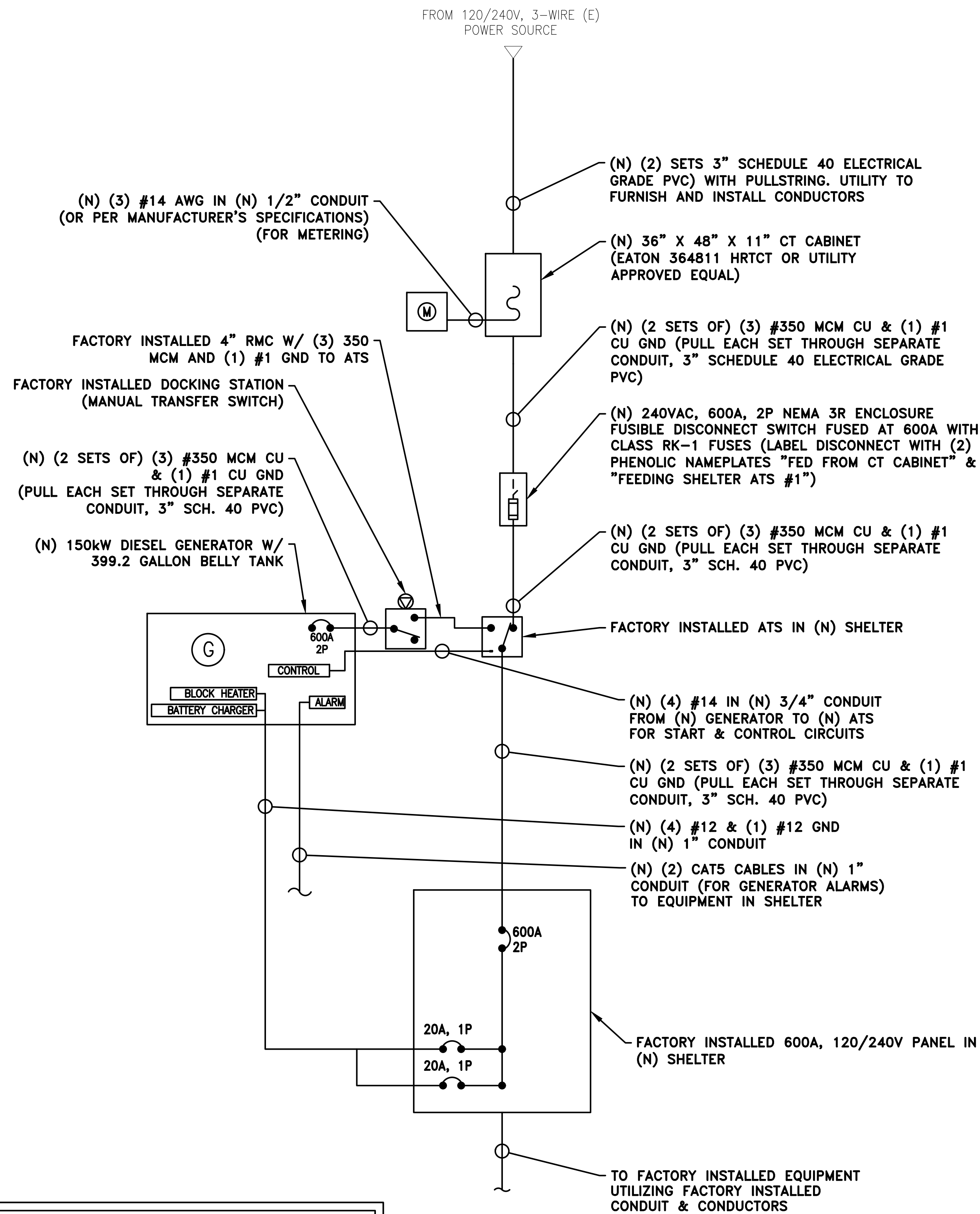
ENLARGED COMPOUND
PLAN
ELECTRICAL

SHEET NUMBER: REVISION:

E-2

A

MN.1083.19POPDEL



CONDUIT NOTES

CONDUIT TYPES SHALL BE AS FOLLOWS, UNLESS OTHERWISE SPECIFICALLY REQUIRED BY LANDLORD OR FACILITIES MANAGER AND ALLOWED BY ANY GOVERNING AUTHORITY:

- BELOW GRADE CONDUITS:
 - SCH. 40 PVC CONDUIT OR HDPE SDR 11
 - SCH. 80 BENEATH ROAD/PARKING LOT OR HDPE SDR 11 @ 4' MIN. COVER
- ABOVE GRADE CONDUITS
 - EXTERIOR: RGS
 - INTERIOR: IMC

PROVIDE FLEXIBLE LIQUDTIGHT NON-METALLIC CONDUITS (TYPE NM) FOR FINAL BENDS AS REQUIRED FOR FIELD FIT.

NOTE:

GENERATOR SHALL BE FACTORY FURNISHED WITH THE DISCONNECTING MEANS AND SHUTDOWN OF PRIME MOVER, PER 2017 NEC, 445.18.

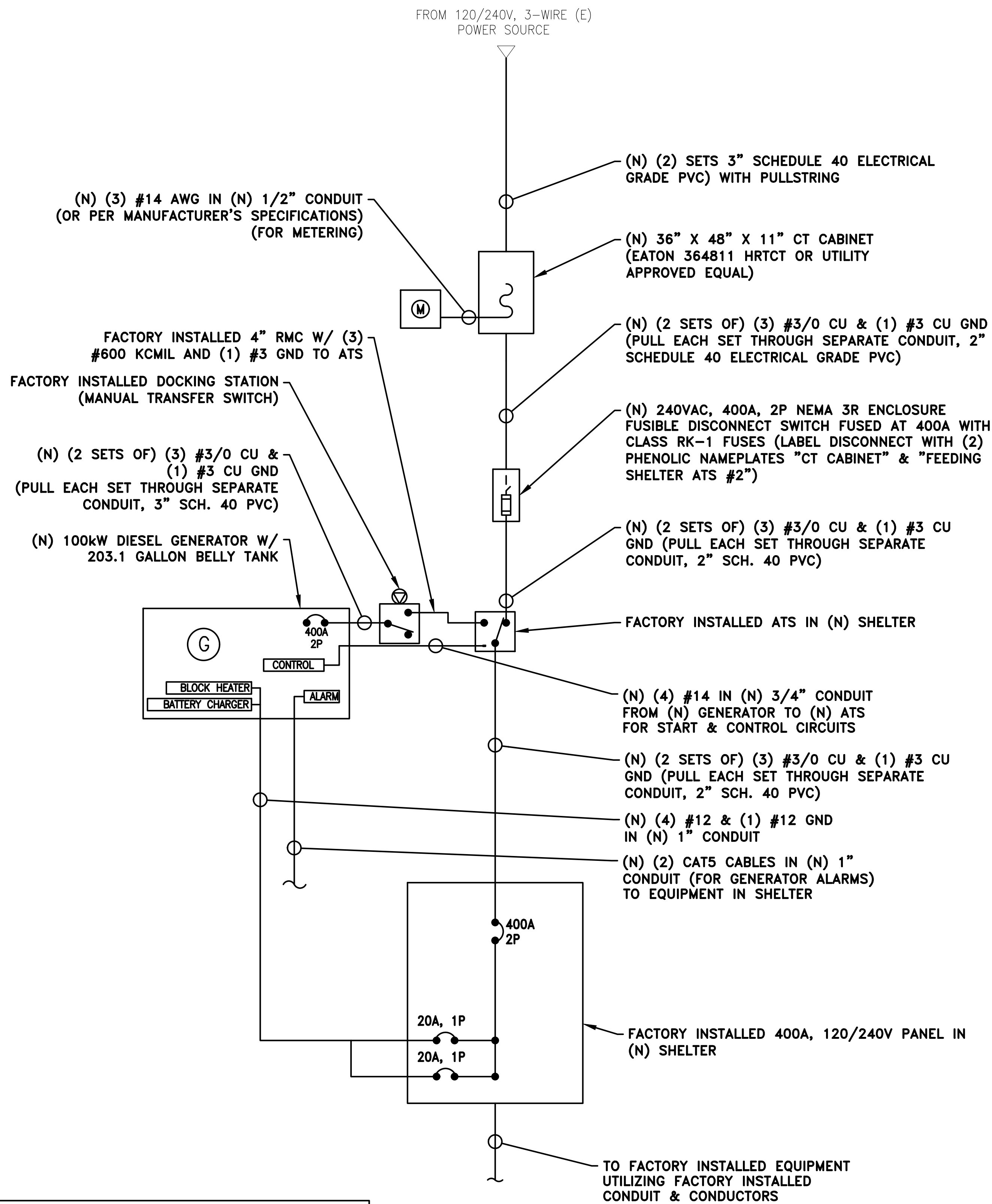
NOTE:

THE NEW GENERATOR AND ATS ARE A NON-SEPARATELY DERIVED SYSTEM AND NEUTRAL IS NOT SWITCHED.

NEW SINGLE LINE DIAGRAM (600A SHELTER)

SCALE:
N.T.S.

1



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GENERATOR SHALL BE FACTORY FURNISHED WITH THE DISCONNECTING MEANS AND SHUTDOWN OF PRIME MOVER, PER 2017 NEC, 445.18.

NOTE:

THE NEW GENERATOR AND ATS ARE A NON-SEPARATELY DERIVED SYSTEM AND NEUTRAL IS NOT SWITCHED.

NEW SINGLE LINE DIAGRAM (400A SHELTER)

SCALE:
N.T.S.

2



PROJECT INFORMATION:

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DELANO

9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

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CONSULTANT:

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DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

SINGLE LINE DIAGRAMS

SHEET NUMBER: REVISION:

E-3

A

MN.1083.19POPDEL



9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

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OFFICE: (443) 367-0003

CONSULTANT:

7151 COLUMBIA GATEWAY DRIVE, SUITE A
COLUMBIA, MD 21046
OFFICE: (443) 367-0003

DRAWN BY: _____ CHK.: _____ APV.: _____

LICENSURE:

SIGNATURE: 
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

SHEET NUMBER: _____ REVISION: _____

MN.1083.19POPDEI

120/240 VAC, 1 ϕ , 400 AMP SERVICE SUPPLIED
& INSTALLED BY SITE ELECTRICAL CONTRACTOR



1. RECTIFIERS ARE SHOWN ARE FOR ESTIMATION PURPOSES ONLY. FINAL RECTIFIER COUNT TO BE DETERMINED BY IIG.

Manufacturer: SQUARE-D
Model Number: NQ30L4C INTERIOR; NQMB4PPL BREAKER KIT; NQMB4LA MAIN BREAKER
OR APPROVED EQUAL
Mounting: SURFACE

SCALE:
N.T.S.

120/240 VAC, 1 ϕ , 600 AMP SERVICE SUPPLIED
& INSTALLED BY SITE ELECTRICAL CONTRACTOR



1. RECTIFIERS ARE SHOWN ARE FOR ESTIMATION PURPOSES ONLY. FINAL RECTIFIER COUNT TO BE DETERMINED BY IIG.

Manufacturer: SQUARE-D
Model Number: NQ30L6C INTERIOR; NQMB6PPL BREAKER KIT; NQMB5LA MAIN BREAKER
OR APPROVED EQUAL
Mounting: SURFACE

SCALE:
NTS

		6" PANEL IS FED FROM THREE SOURCES: UTILITY, DOCKING STATION AND GENERATOR 4" ATTACH TO PANEL INSIDE SHELTER 4" SERVICE DISCONNECT 3" THERE ARE TWO SOURCES OF OPTIONAL STANDBY POWER: 150KW GENERATOR VIA ATS AND DOCKING STATION ATTACH TO SERVICE DISCONNECT		
NOT USED		1	SIGNAGE DETAIL	2
NOT USED		3	NOT USED	4



Intermountain Infrastructure Group
533 AIRPORT BLVD, SUITE 400
BURLINGAME, CALIFORNIA 94010, US

PROJECT INFORMATION:

MN.1083.19POPDEL
DELANO

9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

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PLANS PREPARED BY:



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COLUMBIA, MD 21046
OFFICE: (443) 367-0003

CONSULTANT:



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DRAWN BY:CHK.:APV.:

VJ	PS	NC
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SHEET TITLE:

ELECTRICAL DETAILS

SHEET NUMBER:REVISION:

E-5	A
	MN.1083.19POPDEL

GENERAL ELECTRICAL NOTES & BASIC ELECTRICAL REQUIREMENTS

1. THE DRAWINGS ARE PROVIDED TO DEPICT DESIGN INTENT AND ARE NOT TO BE CONSIDERED INSTALLATION DRAWINGS. NOT ALL COMPONENTS OR CONNECTIONS ARE SHOWN. EQUIPMENT PART NUMBERS ARE SHOWN TO PROVIDE PERFORMANCE CRITERIA AND LEVEL OF PRODUCT STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING FINAL CONDUIT ROUTING, INSTALLATION OF ALL ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION MEANS AND METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, ENERGIZING AND TESTING OF ALL ELECTRICAL COMPONENTS PER THE MANUFACTURER’S INSTRUCTIONS.
2. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARD TO THE CONTRACTOR’S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE NETWORK CONNEX PROJECT MANAGER OR CONSTRUCTION MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN REWARDED.
3. CONTRACTOR SHALL PERFORM ALL VERIFICATION, OBSERVATION, TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE DESIGN PROFESSIONAL LISTING ANY AND ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
4. CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
5. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL OF ANY UNFORESEEN SITE CONDITIONS THAT MAY IMPACT THE DESIGN.
6. CONTRACTOR IS IN NO WAY PERMITTED TO MODIFY OR CHANGE THE DESIGN WITHOUT THE EXPRESS, WRITTEN CONSENT OF THE DESIGN PROFESSIONAL, SHOULD CONTRACTOR MAKE MODIFICATIONS TO THE DESIGN WITHOUT THE CONSENT OF THE DESIGN PROFESSIONAL, CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR SUCH CHANGES.
7. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES, THE AUTHORITY HAVING JURISDICTIONS OR OTHER PUBLIC AUTHORITIES.
8. ALL ELECTRICAL WORK SHALL CONFORM TO THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR LOCAL MUNICIPAL AUTHORITIES.
10. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AS INDICATED IN THE CONSTRUCTION DOCUMENTS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OF THE WORK SITE AND REMOVING ALL TRASH AND DEBRIS ON A DAILY BASIS
13. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER’S RECOMMENDATIONS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
15. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER’S LABORATORIES (U.L.) AND SHALL BEAR THE INSPECTION LABEL “J” WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTIONS AND SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NFPA, IBC, IMC, IECC, IEC NEC, IEEE, ASTM, NEMA, U.L. AND NBFU.
16. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND DIAGRAMMATIC IN NATURE. EXACT LOCATION AND ROUTING SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH-IN.
17. CONDUIT RUNS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.
18. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED; 22,000 AIC MINIMUM FOR MAINS AND 10,000 AIC MINIMUM FOR BRANCH DEVICES. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.
19. ALL NEW INSTALLED ELECTRICAL EQUIPMENT SHALL BE FURNISHED WITH ARC FLASH HAZARD LABELS AS REQUIRED BY THE NEC.
20. ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED: DISCONNECT SWITCHES, TRANSFORMERS, PANELBOARDS, POWER PROTECTION DEVICES (PPC), AUTOMATIC TRANSFER SWITCH (ATS), MANUAL TRANSFER SWITCH (MTS), POWER TRANSFER LOAD CENTER (PTLC), ETC., SHALL BE LABELED WITH PERMANENT ENGRAVED LAMACOID (PHELONIC) LABELS. LABELS SHALL INDICATE EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANELBOARD LOCATIONS FED FROM. LABELS SHALL BE AFFIXED WITH CONSTRUCTION ADHESIVE. LOCITE PL MAX PREMIUM OR EQUAL.
21. CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, INCLUDING MANUFACTURER’S AND PART NUMBERS FOR PANELBOARDS, TRANSFORMERS, POWER PROTECTION CABINETS (PPC) AND DISCONNECTS, AND CHANGES WHILE COMPLETELY THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL AT THE COMPLETION OF THE PROJECT.
22. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE DEBRIS, CRATING AND CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

GENERAL ELECTRICAL NOTES & BASIC ELECTRICAL REQUIREMENTS (CONTINUED)

23. CONTRACTOR SHALL NOTIFY THE BUILDING OWNER FIVE (5) BUSINESS DAYS PRIOR TO ANY PLANNED POWER OR OTHER SERVICE OUTAGE. THE OWNER SHALL RESERVE THE RIGHT TO REFUSE SUCH OUTAGE AND HAVE IT RESCHEDULED.
24. ANY CODE VIOLATIONS DUE TO THE CONTRACTOR’S WORK SHALL BE CORRECTED AT THE CONTRACTOR’S EXPENSE.
25. CONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.

ELECTRICAL SPECIFICATIONS: ELECTRICAL MATERIALS AND EQUIPMENT CONDUIT

1. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND WHERE INDICATED ON THE DRAWINGS, FOR UNDERGROUND RUNS. RIGID CONDUIT AND FITTINGS SHALL BE STEEL, COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZED PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATION C80.1, FEDERAL SPECIFICATION WW-C–581 AND SHALL BE LISTED WITH THE UNDERWRITER’S LABORATORIES. FITTING SHALL BE THREADED – SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTED.
2. UNDERGROUND CONDUIT SHALL BE POLYVINYLCHLORIDE SCHEDULE 40 (PVC). SCHEDULE 40 PVC SHALL NOT BE PERMITTED ABOVE GRADE. WHERE CONDUIT PASSES UNDER A ROAD OR DRIVE, IT SHALL BE SCHEDULE 80 PVC. SUITABLE FOR DIRECT BURIAL. JOINTS SHALL BE BELLED AND FLUSHED, SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS.
3. EMT OR RIGID GALVANIZED STEEL CONDUIT MAY BE USED IN FINISHED INTERIOR SPACES, CONCEALED IN WALLS AND CEILINGS. EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO–GALVANIZED OR HOT–DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION C80.3, FEDERAL SPECIFICATION WW–C–563, AND SHALL BE U.L. LISTED. FITTING SHALL BE METALLIC COMPRESSION. SET SCREW CONNECTIONS ARE NOT PERMITTED.
4. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC GLAND TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM. SET SCREW CONNECTIONS ARE NOT PERMITTED. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED SIX (6) FEET, EXCEPT WHERE PERMITTED BY THE NEC. LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRED BY THE NEC.
5. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH.
6. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY THE NEC.
7. PROVIDE VERTICAL CABLE SUPPORTS IN ALL VERTICAL CONDUITS WHERE SHOWN OR REQUIRED BY THE NEC.
8. PROVIDE EXPANSION FITTINGS IN CONDUIT WHERE SHOWN OR REQUIRED BY THE NEC.
9. ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC. NO RIGHT-ANGLE DEVICE OTHER THAN STANDARDS CONDUIT ELBOWS WITH 12 INCH MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2 INCH OR LARGER.
10. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) BETWEEN PULL BOXES, CONDUIT BODIES AND BOXES. CONTRACTOR SHALL FURNISH AND INSTALL AND/ALL JUNCTION BOXES SIZED IN ACCORDANCE WITH THE NEC REQUIREMENTS AS REQUIRED FOR THE INSTALLATION.
11. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING GROUND BUSHINGS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION.
13. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
14. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATELY SIZED MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
15. INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
16. INSTALL TWO (2) INCH HIGHLY VISIBLE AND DETECTABLE TAPE TWELVE (12) INCH ABOVE ALL UNDERGROUND CONDUIT AND CONDUCTORS, OR AS INDICATED ON THE DRAWINGS.
17. CONDUITS SHALL BE INSTALLED IN SUCH MANNER AS TO ENSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
18. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION (WALLS AND FLOORS) SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL, FLOOR OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE AND FUMES. ALL MATERIAL SHALL BE U.L. APPROVED FOR THIS PURPOSE.
19. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH THE APPROVED NON–PERFORMED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE ARE NOT PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDITIONS IN TIGHT ENVELOPES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO THE STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE OF GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
20. LABEL ALL “IIG” CONDUITS EVERY TWENTY (20) FEET THROUGH THE BUILDING AND ON THE ROOF, “IIG” USING STENCILS AND SPRAY PAINT.
21. CONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED AND TRIP HAZARDS ARE ELIMINATED.
22. TIE WRAPS ARE NOT ALLOWED.
23. CABINETS, BOXES AND WIRE WAYS SHALL BE LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, U.L., ANSI, IEEE AND NEC.
24. WIREWAYS SHALL BE METAL WITH AN ENAMEL FINISH AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARDS (WIREMOLD SPECMATE WIREWAY).

ELECTRICAL SPECIFICATIONS: ELECTRICAL MATERIALS AND EQUIPMENT CONDUIT (CONTINUED)

25. SLOTTED WIRING DUCT SHALL BE PVC AND INCLUDE COVER (PANDUIT TYPE E OR EQUAL).
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE GALVANIZED OR EPOXY–COATED SHEET STEEL. SHALL MEET OR EXCEED U.L. 50 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND NEMA 3 (OR BETTER) FOR EXTERIOR LOCATIONS.
27. METAL RECEPTACLE, SWITCH AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY–COATED OR NON–CORRODING; SHALL MEET OR EXCEED U.L. 514A AND NEMA OS 1 AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.
28. NONMETALLIC RECEPTACLE, SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2 (NEWEST REVISION) AND BE RATED NEMA 1 (OR BETTER) FOR INTERIOR LOCATIONS AND WEATHER PROTECTED (WP OR BETTER) FOR EXTERIOR LOCATIONS.

CONDUCTORS

1. CONDUCTORS AND CABLES SHALL BE FLAME–RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN–2, 600 VOLT OR TYPE XHHW–2, 600 VOLT, RATED 75° C (165° F), 98% CONDUCTIVITY. SIZE AS INDICATED. #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTORS.
2. #10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
3. SOLDERLESS, COMPRESSION – TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.
4. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTORS, AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS.
5. CONTRACTOR SHALL PROVIDE STRAIN – RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES AND AISG RET CABLES. CABLE STRAIN – RELIEF AND CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. ZIP TIES OR VELCRO STRAPS ARE NOT PERMITTED.

DISCONNECT SWITCHES

1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, FUSIBLE, DEAD FRONT, QUICK–MAKE, QUICK–BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, VOLTAGE, AMPERAGE AND NEMA RATING AS INDICATED.
2. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.
3. PROVIDE LABELING EACH SERVICE DISCONNECT AS INDICATED ON THE DRAWINGS. IF SOURCES IS HOUSE POWER, INCLUDE LOCATION AND LABEL OF PANEL FEEDING EQUIPMENT. HVAC DISCONNECTS SHALL BE LABELED “HVAC DISCONNECT” AND INCLUDE PANEL AND NUMBER OF CIRCUIT(S) SERVING THE HVAC EQUIPMENT.
4. ALL FUSIBLE DISCONNECTS SHALL BE FURNISHED WITH CLASS RK–1 FUSES, SIZED AS INDICATED.
5. MAXIMUM MOUNTING HEIGHT SHALL BE 72” AFF OR AFG TO TOP OF HANDLE IN THE UPPER MOST POSITION.
6. FUSES SHALL NOT BE INSTALLED UNTIL EQUIPMENT IS READY TO BE ENERGIZED.

FUSES

1. LISTED BY UNDERWRITER’S LABORATORIES, INC.
2. RATED 600 VOLT OR 240 VOLT TO MATCH THE SYSTEM VOLTAGE AND PER THE INTENDED APPLICATION INDICATED ON THE PLANS.
3. DUAL ELEMENT, TIME DELAY, U.L. CLASS RK–1.
4. INTERRUPTING RATING: 200,000 RMS AMPERES.

ACCEPTED MANUFACTURERS: BUSSMAN OR LITTLEFUS



PROJECT INFORMATION:

MN.1083.19POPDEL
DELANO

9385 COUNTY ROAD 26
MAPLE PLAIN, MN 55359
HENNEPIN COUNTY

CURRENT ISSUE DATE:

04/22/26

ISSUED FOR:

PRELIMINARY

REV.:DATE:DESCRIPTION:BY:

A	04/22/26	90% CD, ISSUED FOR REVIEW	VJ

PLANS PREPARED BY:

NETWORK
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7151 COLUMBIA GATEWAY DRIVE, SUITE A
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CONSULTANT:

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DRAWN BY:CHK.:APV.:

VJ	PS	NC
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LICENSURE:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE:
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

ELECTRICAL NOTES

SHEET NUMBER:REVISION:

E-6

A

MN.1083.19POPDEL

GROUNDING NOTES

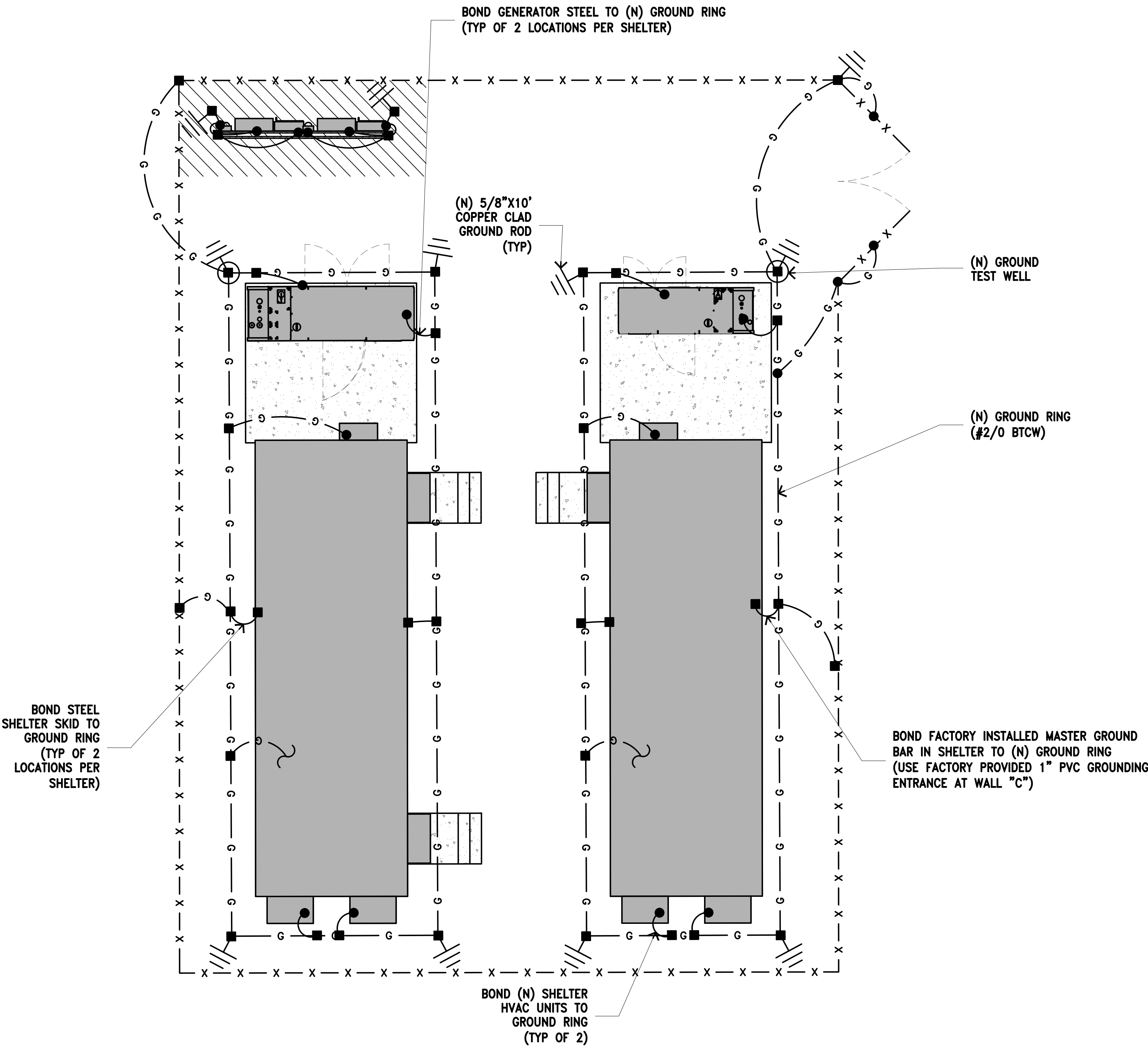
- 1. ALL GROUNDING SYSTEM CONDUCTORS AND CONNECTIONS BELOW GRADE SHALL BE THERMAL WELDS AT GROUND RODS AND AT A MINIMUM OF 36" BELOW GRADE.
- 2. ALL INSTALLATIONS SHALL BE FIELD VERIFIED.
- 3. ALL GROUND WIRE SHALL BE #2/0 AWG BARE TINNED SOLID COPPER UNLESS NOTED OTHERWISE.
- 4. ALL GROUND WIRES SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- 5. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF GROUND RODS AND GROUND RING WITH FOUNDATION AND UNDERGROUND CONDUIT.
- 6. KOPR-SHIELD ANTI-OXIDATION COMPOUND SHALL BE USED ON ALL GROUNDING CONNECTIONS.
- 7. ALL BOLTED GROUNDING CONNECTIONS SHALL BE INSTALLED WITH A LOCK WASHER UNDER THE NUT. HARDWARE FOR BOLTED CONNECTIONS SHALL BE A MINIMUM OF 3/8" DIAMETER AND SHALL BE STAINLESS STEEL.
- 8. GROUNDING WIRE SHALL NOT BE INSTALLED OR ROUTED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS TO PRECLUDE ESTABLISHING A "CHOKE" POINT.
- 9. PLASTIC CLIPS OR METAL CLIPS WHICH DO NOT COMPLETELY SURROUND THE GROUNDING CONDUCTORS SHALL BE USED TO FASTEN AND SUPPORT GROUNDING CONDUCTORS. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUNDING CONDUCTOR SHALL NOT BE USED.
- 10. STANDARD BUS BARS SHALL BE FURNISHED AND INSTALLED WHERE APPLICABLE. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD.
- 11. THE CONTRACTOR SHALL SUPPLY CUSTOMER WITH RESULTS FROM POST-CONSTRUCTION OHM TESTING (GROUND) RESULTS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A "FALL OF POTENTIAL" TEST ON THE NEW SUPPLEMENTAL GROUND FIELD PRIOR TO FINAL CONNECTION OF THE GROUNDING SYSTEM TO EQUIPMENT. THE TEST SHALL BE PERFORMED BY A QUALIFIED AND CERTIFIED TESTING AGENT. PROVIDE INDEPENDENT TEST RESULTS TO THE PROJECT MANAGER FOR REVIEW. THE GROUND SYSTEM RESISTANCE TO EARTH GROUND SHALL NOT EXCEED FIVE (5) OHMS. IF THE GROUND TEST EXCEEDS THE MAXIMUM OF 5 OHMS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL GROUND CONNECTIONS AS REQUIRED TO MEET THE 5 OHMS MAXIMUM.

GROUND ROD NOTES

- 1. ALL GROUND RODS SHALL HAVE A MINIMUM 8'-0" LENGTH OF CONTACT WITH THE SOIL.
- 2. ALL GROUND RODS SHALL HAVE A MINIMUM OF 6'-0" SPACING BETWEEN RODS AND A PREFERRED MAXIMUM SPACING OF 24'-0".
- 3. ALL GROUND RODS SHALL BE INSTALLED SUCH THAT AT LEAST 8 FT OF LENGTH IS IN CONTACT WITH THE SOIL. IT SHALL BE DRIVEN TO A DEPTH OF NOT LESS THAN 8 FT EXCEPT THAT, WHERE ROCK BOTTOM IS ENCOUNTERED, THE ELECTRODE SHALL BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES FROM THE VERTICAL OR, WHERE ROCK BOTTOM IS ENCOUNTERED AT AN ANGLE UP TO 45 DEGREES, THE ELECTRODE SHALL BE PERMITTED TO BE BURIED IN A TRENCH THAT IS AT LEAST 30 IN. DEEP.

GROUNDING SYMBOLS

- G — PROPOSED #2/0 BARE TINNED, SOLID COPPER CONDUCTOR (UNLESS OTHERWISE NOTED)
- ○ ○ ○ ○ ○ PROPOSED GROUND BAR
- PROPOSED MECHANICAL GROUNDING CONNECTION
- PROPOSED EXOTHERMIC GROUNDING CONNECTION
- ⏏ PROPOSED 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD
- ⏏ PROPOSED 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD WITH ACCESS



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PLANS PREPARED BY:

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CONSULTANT:

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DRAWN BY: CHK.: APV.:

VJ	PS	NC
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SIGNATURE: [Signature]
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

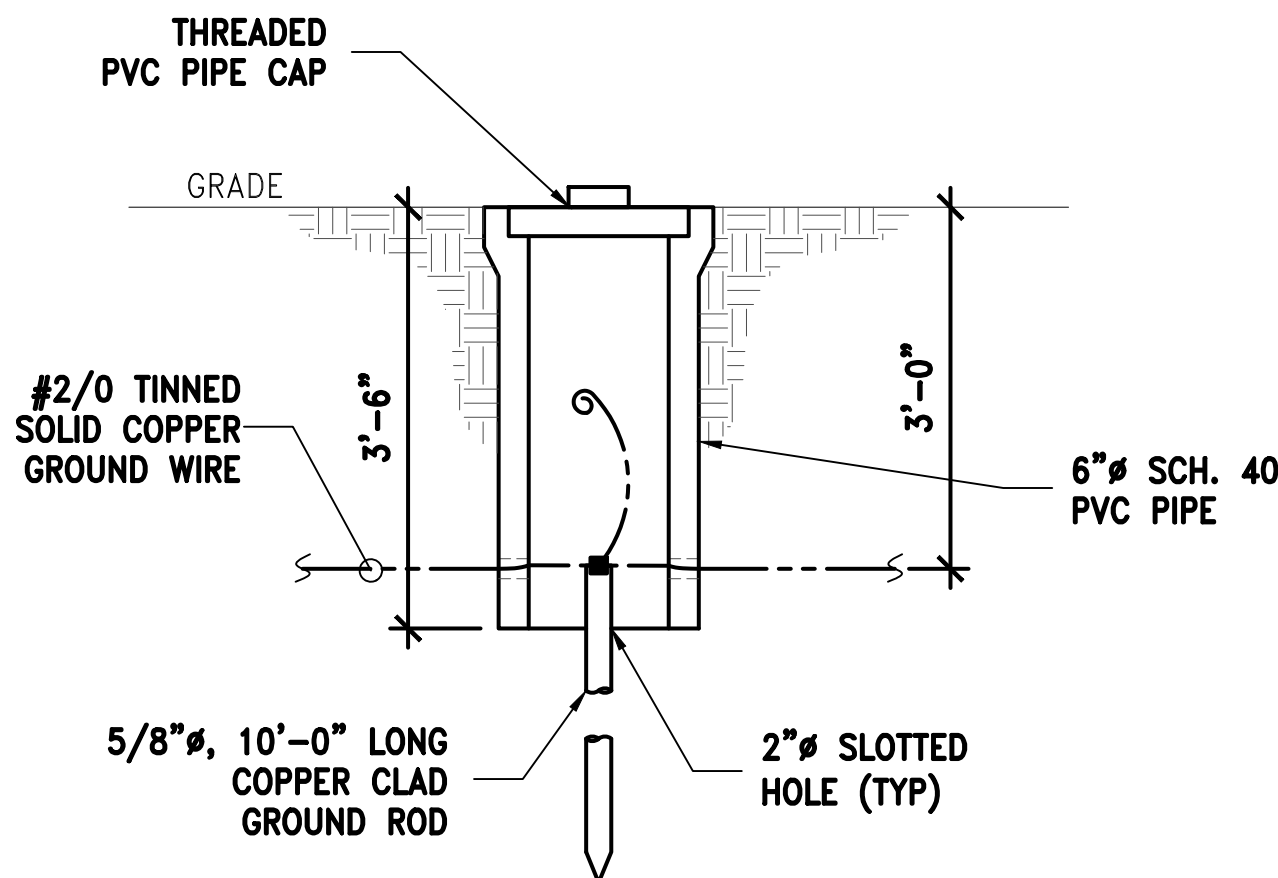
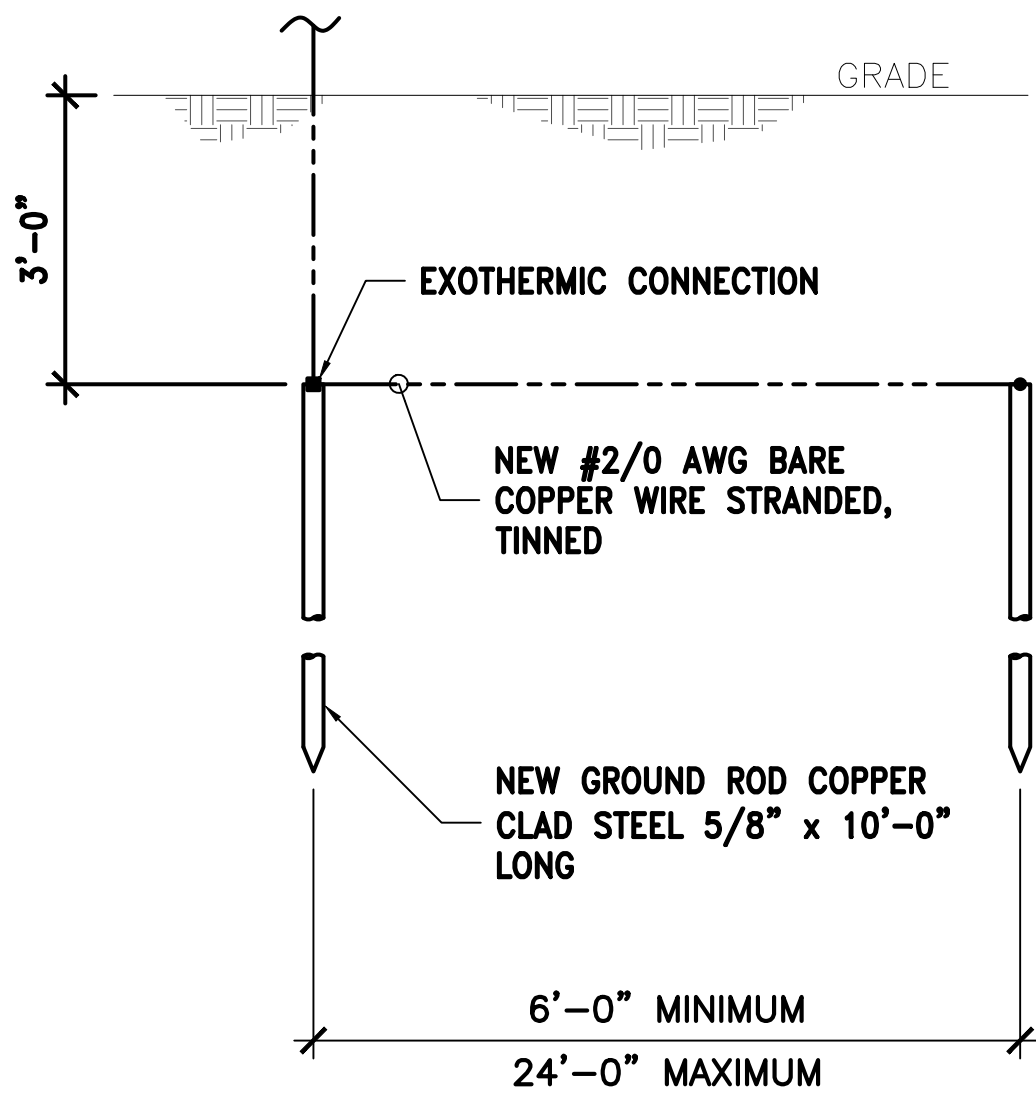
SHEET TITLE:

GROUNDING PLAN

SHEET NUMBER: REVISION:

G-1

A



GROUND ROD DETAIL

SCALE:
N.T.S.

5

GROUND ROD WITH ACCESS DETAIL

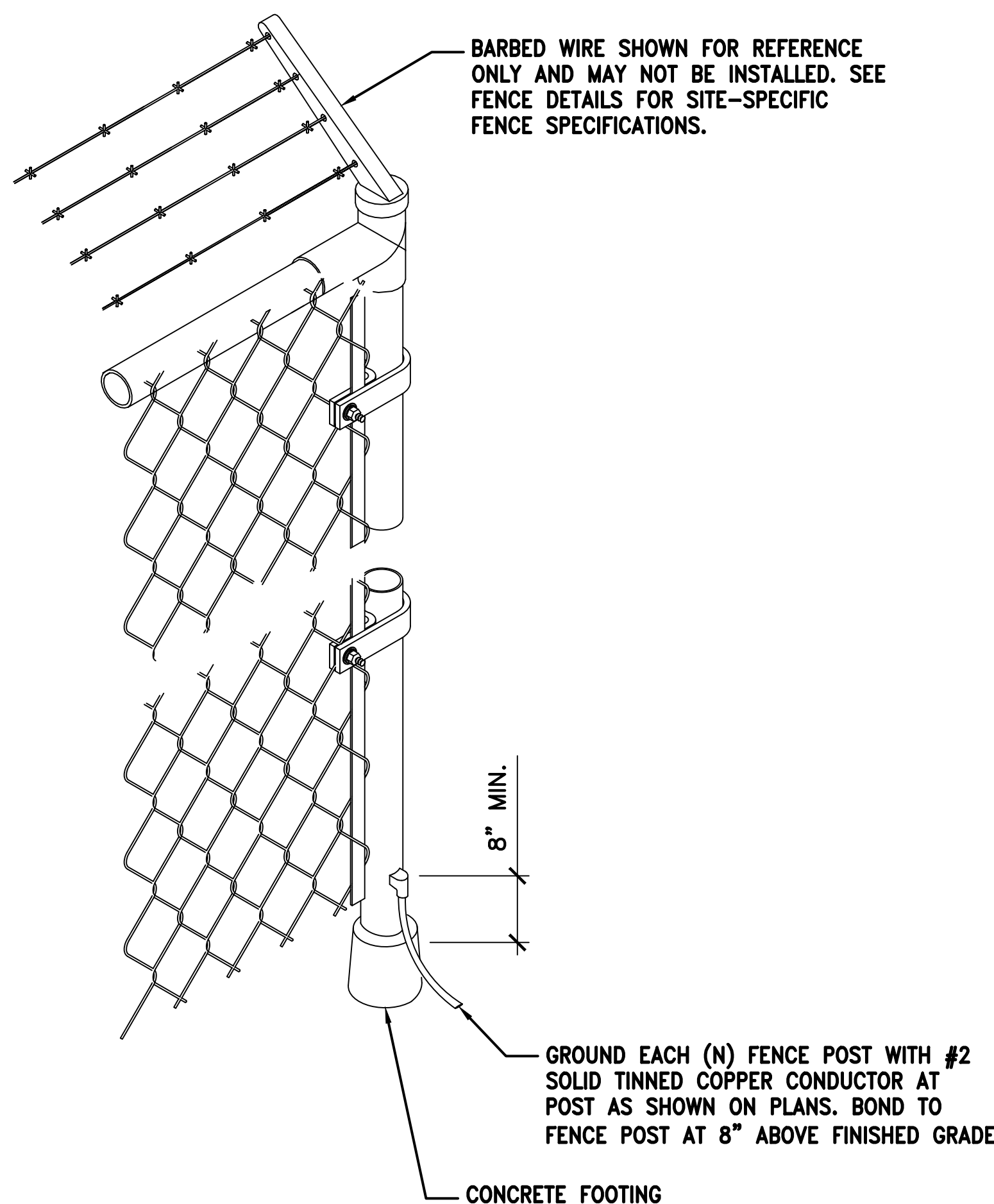
SCALE:
N.T.S.

3

DETAIL NOT USED

SCALE:
NONE

2



DETAIL NOT USED

SCALE:
NONE

6

FENCE POST GROUNDING DETAIL

SCALE:
N.T.S.

4

GROUND TRENCH DETAIL

SCALE:
N.T.S.

1

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DRAWN BY: CHK.: APV.:

VJ PS NC

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SPECIFICATION, OR REPORT WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY LICENSED
PROFESSIONAL ENGINEER UNDER THE LAWS
OF THE STATE OF MINNESOTA.
SIGNATURE:
NAME: ANDREW M. MILLER
DATE: 05/11/2026 LICENSE NUMBER: 54189

SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER: REVISION:

G-2

A

MN.1083.19POPDEL

RESOLUTION NO. 78-26

CITY OF MINNETRISTA

RESOLUTION APPROVING A SITE PLAN FOR THE CONSTRUCTION OF 2 EQUIPMENT SHELTERS AND 2 GENERATORS AT 9385 COUNTY ROAD 26

WHEREAS, the City of Minnetrista is a municipal corporation, organized and existing under the laws of the State of Minnesota; and

WHEREAS, the City Council of the City of Minnetrista has adopted zoning and subdivision regulations, per chapter 5 of the Municipal Code, to promote the orderly, economic and safe development and utilization of land within the city; and

WHEREAS, a site plan review is required when an expansion or change in use is classified as a “major change” (25% or more increase in square footage of a project); and

WHEREAS, Zenanko Family LLC (the “Applicant”) has made an application for site plan review for the installation of 2 equipment shelters for electrical equipment and 2 generators for backup power at 9385 County Road 26 (the “Property”) and which is legally described on Exhibit A attached hereto; and

WHEREAS, on June 22, 2026, the Planning Commission reviewed the proposed site plan and, after consideration of the record before it, voted 7-0 in favor of recommending approval of the proposed site plan; and

WHEREAS, the City Council has reviewed the application as submitted and have made the following findings of fact:

1. Public utilities are an allowed use in the Agriculture Preserve Zoning District;
2. The proposed use does not have an effect upon the health, safety, and general welfare of the city regarding the factors of noise, glare, odor, electrical interferences, vibration, dust, or other nuisances;
3. The proposed use does not pose any discernable fire or safety hazards;
4. The proposed use does not change existing or anticipated traffic conditions or parking facilities on adjacent streets and land;
5. The proposed use does not have an effect on surrounding properties, including valuation, aesthetics and scenic views, land uses, or character and integrity of the neighborhood;
6. The proposed use does not have any added impact on governmental facilities or services, including roads, sanitary sewer, water and police and fire;
7. The proposed use does not have an effect on sensitive environmental features including lakes, surface and underground water supply and quality, wetlands, slopes, flood plains, or soils; and
8. The request is consistent with the Minnetrista Comprehensive Plan.

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Minnetrista hereby approves the requested site plan for the installation of 2 equipment shelters for electrical

equipment and 2 generators for backup power at 9385 County Road 26, subject upon the following conditions:

1. The Applicant shall obtain all necessary permits and approvals from the City and other applicable entities with jurisdiction prior to any construction; and
2. The Applicant shall be responsible for all fees incurred by the city in review of this application.

This resolution was adopted by the City Council of the City of Minnetrista on this the 20th day of July, 2026 by a vote of ___ Ayes and ___ Nays.

Lisa Whalen, Mayor

ATTEST:

Ann Meyerhoff, City Clerk

EXHIBIT A

Legal Description of 9385 County Road 26:

In Section 6, Township 117 North, Range 24 West of the 5th Principal Meridian, Hennepin County, Minnesota, the West 1/2 of the Southwest 1/4, and that part of the Southeast 1/4 of the SW 1/4 lying West of the following described line: Commencing at the southeast corner of Government Lot 6, in said Section 6; thence westerly along the southerly line of said Government Lot 6, a distance of 495.00 feet, to the point of beginning of the line to be described; thence south to a point on the South line of said Section 6, distant 495.00 feet West from the southeast corner of said Southeast Quarter of the Southwest Quarter and there terminating.

Abstract Property