VILLAGE OF SUGAR GROVE
BOARD REPORT

TO: VILLAGE PRESIDENT & BOARD OF TRUSTEES

FROM: DANIELLE MARION, COMMUNITY DEVELOPMENT DIRECTOR

SUBJECT: DISCUSSION: SPECIAL USE

AGENDA: FEBRUARY 3, 2026

DATE: JANUARY 22, 2026

ISSUE
Shall the Village Board discuss a petition for a special use permit for a fiber hut facility to be located on US Route 30.

DISCUSSION
The Village has received an application from AECOM and Middle Mile Infrastructure (Meta) for a Special Use Permit to construct a fiber hut facility. The subject property is a vacant parcel off of Route 30 across the from the airport. The project area is a small, designated area in the northeast corner of the parcel. The property is zone M1- Limited Manufacturing. The initial build will be for 2 fiber hut facilities, which will be a 24' x 36' prefabricated concrete structures, approximately 12' tall, equipped with an HVAC system and generator. This project is planned to be phased, and as demand increases, there is a the potential for an additional 4 huts to be installed for a maximum final buildout of 6 huts total, each with its own emergency generator and all within the designated area. The applicant is requesting the following deviations with the Special Use Permit:

1. Deviation to allow for an 8-foot-tall privacy fence around the entire enclosure.
2. Deviation to allow for a crushed aggregate gravel base in place of the required hard surface within the enclosure.
3. Deviation to not require any street lighting.

The Plan Commission held the required public hearing on December 17, 2025 and continued the hearing until January 21, 2026. Commissioner discussion included who the user would and if it would benefit the Villages potential future data centers, the landscaping, the architectural elements of the buildings and fence, and the limits to where the huts could be located. Commissioners expressed concerns over the appearance of the huts and requested the applicant to come back at a second meeting with design options. Commissioners also requested that the landscaping match the approved landscaping for the neighboring property that will have a solar farm. The applicants came back to a second meeting with design options

and revised landscaping. The Commissioners voted 5 to 1 to recommend approval of the proposed special use with the following conditions:

1. Subject to Final Engineering approval.
2. The installation of the future huts within the subject area may be approved at the staff level.
3. There shall be no new above ground poles installed, and all lines must be buried.
4. With the noted modifications:
    a. Building in the northeast corner shall have a gambrel roof design with a metal roof and a central cupola. The building will have composite board and batten siding with bronze trim/accents. The building color will be warm white.
    b. The other five buildings toward the rear of the site will have gable roofs, with composite board and batten siding with the same color scheme as the NE corner building.
    c. The Easten Red Cedar shall be replaced with another type of pine tree.

AYES: Guddendorf, Bieritz, Coia, Airhart, Dubina
NAYES: Rockwell
ABSENT: Sabo

These additional conditions were conveyed to the applicants and they have agreed that they can adhere to all of them.

COST
There is no cost to discuss this item.

ATTACHMENTS

- PC Recommendation 26-01
- Project Narrative
- Engineering Plans

RECOMMENDATION
That the Village Board discuss the proposed Special Use and provide staff with feedback on preparing the necessary ordinance.

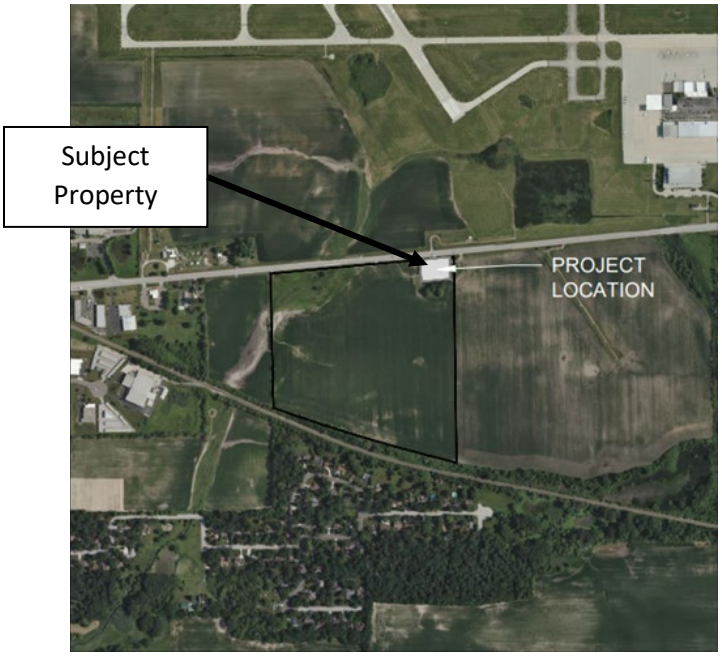
R E C O M M E N D A T I O N
PC26-01

TO:	Village President and Board of Trustees
FROM:	Planning Commission
DATE:	Meeting of February 3, 2026
PETITION:	25-016 AECOM & MMI - Special Use Permit for a Public Utility Facility

PROPOSAL

The applicant is requesting approval of a Special Use Permit for a Public Utility Facility in the M1 District.

LOCATION MAP



601 Heartland Drive
Sugar Grove, Illinois 60554
www.sugargroveil.gov
Phone (630) 391-7220
Facsimile (630) 391-7245

BACKGROUND & HISTORY

The subject property is a vacant parcel off Route 30. Specifically, the project area is a small, 180' x 240' designated area in the northeast corner of the subject parcel. It is zoned M1 Limited Manufacturing District. AECOM and Middle Mile Infrastructure (Meta) have submitted an application for a Special Use Permit to construct two fiber huts, which will be 24' x 36' prefabricated concrete structures, approximately 15' tall, equipped with an HVAC system and a generator. As demand increases, an additional four huts may be installed for a maximum final buildout of six huts, each with its own emergency generator. The huts will house telecommunications equipment necessary for signal amplification and network reliability. They operate with minimal noise, require minimal maintenance, and will not generate traffic or emissions. The enclosure will be screened with an 8-foot-tall privacy fence and landscaping. The Facility will be unmanned, but will be serviced weekly and monthly, depending on needs. Water and sewer are not required for these huts.

The applicant is also requesting the following deviations with the Special Use Permit:

1. Deviation to allow for an 8-foot-tall privacy fence around the entire enclosure.
2. Deviation to allow for a crushed aggregate gravel base in place of the required hard surface within the enclosure.
3. Deviation to not require any street lighting.

DISCUSSION

Commissioners discussed the proposal at the December 17, 2025 Plan Commission meeting and continued it to the January 21, 2026 Plan Commission meeting. The Commissioners requested that the applicant modify the Landscape Plan to mimic the landscaping proposed for the Community Solar Farm project immediately east of the subject property, and to provide building elevations that show the proposed fiber huts with gable roofs and gambrel roofs, along with color variations for the proposed fencing. The applicant complied with these requests and the Commissioners incorporated additional conditions concerning the architecture of the fiber huts and the Landscape Plan.

FINDINGS OF FACT

When considering special use requests, the Zoning Ordinance provides certain standards to be considered. The Planning Commission hereby finds that the proposed Special Use:

a) Will be harmonious with and in accordance with the general objectives of the Comprehensive Land Use Plan and/or this zoning ordinance.

The special use will be harmonious within the general objectives of the Comprehensive Land Use Plan as it aims to minimize negative impacts from industrial-type development. Truck traffic was a top concern for potential negative impacts of industrial development, which an important note of this facility is that it generates very minimal traffic. Additionally, the Comprehensive Plan notes it plans to identify gaps of high-speed broadband network, particularly in industrial and commercial areas. This special use is

a step forward to investing in implementation in key areas. The special use will be in accordance with the Zoning Ordinance as it follows the development standards laid out under Chapter 10 M-1, Limited Manufacturing District. The purpose of the Zoning Ordinance is for the protection and promotion of the public health, safety, comfort and general welfare of the people. We have considered potential concerns such as traffic and environmental impact, and have developed plans to mitigate these issues. Our proposal includes landscaping, screening and noise control that align with these goals. Additionally, as stated above, this project will generate minimal traffic.

b) Will be designed, constructed, operated and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity, and that such use will not alter the essential character of the same area.

The fiber amplification hut will be designed to be harmonious and appropriate in appearance with the existing character of the general vicinity as it will follow all design standards laid out by the zoning ordinance. The design will incorporate architectural styles and materials that complement the surrounding buildings, and the landscaping will enhance the area's aesthetic appeal. The proposed use will maintain the same building heights, ensuring consistency with the character of the vicinity. Potential impacts, such as increased traffic, will be minimal.
The fiber amplification hut will be constructed in a swift manner, aiming to minimally disturb the public during construction. The fiber amplification hut is prefabricated, so once the concrete pads have been poured and settled the fiber hut will be delivered and set. As the current parcel is abutting the airport property, contact with the FAA will be made to ensure the delivery of the hut will not interfere with any restrictions, as the hut is typically landed onto the pad by crane.
The operation and maintenance of the fiber amplification hut will follow the M-1 district purpose in being high quality, nuisance free service use. The operation and maintenance plans include regular upkeep and noise control measures to ensure the use remains in harmony with the community. The fiber amplification hut operates at a 55dbA noise level within the property line. The maintenance of this facility is sporadic, as it is unmanned and will only be serviced weekly to monthly. Therefore, this service use will generate very minimal traffic.

c) Will not be hazardous or disturbing to existing or future neighborhood uses.

The proposed use will not be hazardous or disturbing to existing or future neighborhood uses. We will implement comprehensive safety measures, including secure building designs, and strict adherence to health and safety regulations. To minimize disturbances, we will employ noise reduction strategies, maintain minimal traffic generation, and maintain a clean environment. The proposed use is designed to be compatible with existing and future neighborhood uses, ensuring it does not interfere with residential areas, schools, parks, or other community facilities. The fiber

amplification hut facility will operate at a 55db noise level within the property line, meaning it is quieter past this area.

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

The proposed use will be adequately served by essential public facilities and services such as highways, streets, police and fire protection, drainage structures, refuse disposal. Drainage structures and refuse disposal systems are in place to manage waste and prevent flooding. Water and sewer services are not required for this site.

e) Will not create excessive additional requirements at public cost for public facilities and services, and will not be detrimental to the economic welfare of the Village.

The special use of the fiber amplification hut will not create excessive additional requirements at public cost for public facilities and services and will not be detrimental to the economic welfare of the Village of Sugar Grove. The project will utilize existing roads and emergency services, ensuring no significant additional investment is required.

f) Will not involve uses, activities, processes, materials, equipment and/or conditions of operation that will be detrimental to any persons, property or the general welfare by reason of excessive production of traffic, noise, smoke, fumes, glare or odors.

The fiber amplification hut will not involve activities that would be detrimental to any persons, property, or genal welfare by excessive production of traffic, noise, smoke, fumes, glare, or odors. As mentioned, the fiber amplification hut operates at a 55db noise level within the property line, so noise will not be excessive. Additionally, due to the sporadic maintenance of this unmanned facility very minimal traffic will be generated.

g) Will have vehicular approaches to the property which shall be so designed as to not create an undue interference with traffic on surrounding public streets or highways.

The special use will have vehicular approaches to the property, which shall be designed to not create an undue interference with traffic on surrounding streets and highways. The current site plan will indicate that the facility is utilizing a pre-existing curb cut for the drive. Additionally, the facility is unmanned and maintenance is sporadic, so very minimal traffic will be generated to the facility. We will work closely with traffic management authorities to ensure that the design aligns with traffic management plans and regulations.

h) Will not increase the potential for flood damage to adjacent property, or require additional public expense for flood protection, rescue or relief.

The fiber amplification hut special use will not increase the potential for flood damage to adjacent property, or require additional public expense for flood protection, rescue or relief. Comprehensive flood risk mitigation measures will be implemented, including proper drainage systems, elevation of structures, and use of flood-resistant materials. Infrastructure improvements like a permeable gravel site and bioswales will be made to manage stormwater effectively. Additionally, the proposed use will adhere to local floodplain management regulations.

i) Will not result in the destruction, loss or damage of natural, scenic or historic features of major importance to the Village.

The fiber amplification hut special use will not result in the destruction, loss or damage of natural, scenic or historic features of major importance to the village. Adherence to environmental regulations will ensure these features are preserved.

EVALUATION

The proposed Special Use Permit for a Public Utility Facility would be in line with the Village's Comprehensive Plan and would not be detrimental to the surrounding areas.

Generally, this use is required to conform to the Village of Sugar Grove Special Use Standards. The following evaluation is based on the Special Use Standards.

1. Land Use/General – The proposed use remains consistent with the Comprehensive Plan and the Zoning on the property.

2. Existing Conditions – The property is vacant, and the use will be within the small, designated area.

3. Lots & Buildings – There is no building on the site.

4. Parking – There is no parking on the site, nor is it required.

PUBLIC RESPONSE

After due notice, the Planning Commission held a public hearing on December 17, 2025. Three residents had initial concerns because they assumed the project area was larger and located toward the south of the parcel, and that it may affect airplanes. The project area is in fact located toward the northeast corner of the parcel and is only 180' x 240', and will not affect airplanes. The hearing was continued to the January 21, 2026 Plan Commission meeting where no objectors were present.

RECOMMENDATION

After carefully considering the facts, the Planning Commission recommends the Village Board **approve** the Special Use Permit for a Public Utility Facility, and to incorporate the findings of fact, subject to the following conditions;

1. Subject to Final Engineering approval.
2. The installation of the future huts within the subject area may be approved at the staff

level.

3. There shall be no new above ground poles installed, and all lines must be buried.
4. The fiber hut in the northeast corner will receive a gambrel roof design with a metal roof and a central cupola. The fiber hut will have composite siding with board and batten, with bronze trim. The color of the fiber hut will be warm white.
5. The other five fiber huts toward the rear of the site will have gable roofs, with board and batten siding, with the same color scheme as the fiber hut near the northeast corner.
6. The Eastern Red Cedar tree proposed in the Landscape Plan shall be replaced with another type of pine tree.

AYES: Airhart, Bieritz, Coia, Guddendorf, Dubina

NAYES: Rockwell

ABSENT: Sabo

Motion Passed

AECOM

2151 Pickens St, Suite 301
Columbia, SC, 29201

January 11, 2026

Village of Sugar Grove
Community Development Department
601 Heartland Drive
Sugar Grove, IL 60554

Subject: Special Use Permit Application – Fiber Optic Inline Amplification Hut

Dear Community Development Department,

On behalf of Middle Mile Infrastructure, I am submitting this letter along with the required documentation to formally request a Special Use Permit for the installation of a fiber optic inline amplification hut at Route 30, Sugar Grove, IL 60554, within the Village of Sugar Grove. MMI is a private utility company aiming to develop an unmanned In-Line Amplifying (ILA) hut to energize underground fiber optic lines. The buried fiber optic cable is transferred from underground to connect with transceiver devices to boost and enhance data signals. The fiber will be used by private or public network providers at the local and regional scale.

This facility is a critical component of a larger regional fiber optic network designed to enhance broadband infrastructure and connectivity across the region. The proposed hut will be a small, unmanned, prefabricated structure designed to house telecommunications equipment necessary for signal amplification and network reliability. It will operate with minimal noise, require minimal maintenance, and will not generate traffic or emissions.

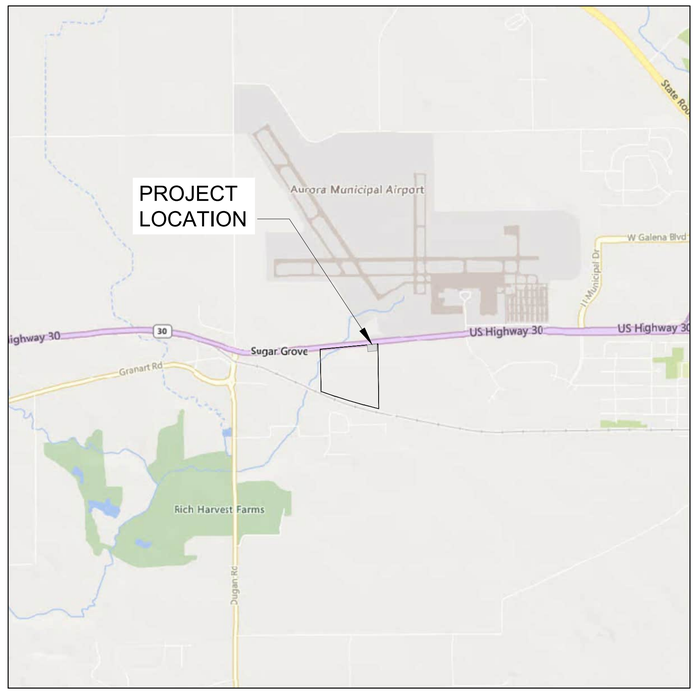
MMI's fiber hut is part of an extensive network of fiber optic infrastructure. Specifically, the equipment enclosure will initially include two (2) 24'x36' prefabricated concrete buildings, approximately 15' tall, each equipped with an HVAC system and an emergency generator. As part of our phasing plan, we will initially install two huts and two generators. As demand increases, there is the potential for additional huts to be installed with a maximum final buildout of six huts total. Each hut will have its own emergency generator. The generators will run every three months for about 5 minutes for testing and maintenance, and will also operate during any power outages. The noise generated by the generators and HVAC systems is approximately 55 decibels.

The proposed facility will generate minimal traffic as this is an unmanned facility serviced weekly to monthly for facility maintenance. Water and sewer are not required for these huts and landscaping can be provided to meet buffer requirements.

The proposed facility in the Village of Sugar Grove will be similar in appearance to the photo below and will include a Trex privacy fence (color palette included on Sheet 11) and landscaping elements to ensure it is well-screened and aesthetically integrated into the surrounding environment See Sheets 22-23 for landscaping plans). Building elevations have been provided on Sheets 25-27 that show what the fiber hut(s) will look like. The elevations show a brick façade for the huts with two roof styles for consideration including a gable style roof as well as a gambrel/barn style roof.

We believe this use is consistent with the Village's goals for infrastructure development and technological advancement, and we are committed to ensuring that the installation meets all

MMI - UNMANNED ILA UTILITY BUILDING
ORD-LH1.5
VILLAGE OF SUGAR GROVE, IL



VICINITY MAP
SCALE: 1" = 2000'

N

REFERENCE:
MAPPING OBTAINED FROM MICROSOFT BING
STREET MAP
DATED 2025

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS
4	DEMOLITION
5	GRADING PLAN
6	EROSION CONTROL PLAN
7	EROSION CONTROL NOTES & DETAILS
8	PROPOSED EASEMENT EXHIBIT
9	SITE PLAN - INITIAL BUILD
10	SITE PLAN - FUTURE BUILD
11	SITE DETAILS-1
12	SITE DETAILS-2
13	STRUCTURAL DETAILS-1
14	STRUCTURAL DETAILS-2
15	STRUCTURAL DETAILS-3
16	ELECTRICAL GENERAL NOTES, SYMBOL LEGENDS, AND ABBREVIATIONS
17	ELECTRICAL SITE PLAN
18	ELECTRICAL GROUNDING PLAN
19	ELECTRICAL CONDUIT TRACING PLAN
20	ELECTRICAL SPECIFICATIONS
21	ELECTRICAL ONE-LINE DIAGRAM
22	LANDSCAPE PLAN
23	LANDSCAPE PROFILE
24	SITE SECTION PROFILE
25	ILA 4-12 PITCH GABBLE ROOF
26	ILA SHED BARN ROOF SIDE VIEW
27	ILA SHED BARN ROOF END VIEW
28	IDOT MPT-WZTC DETAILS
29	SUGAR GORVE DRIVEWAY DETAIL

AERIAL MAP
SCALE: 1" = 600'

N

REFERENCE:
AERIAL PHOTOGRAPHIC OBTAINED FROM MICROSOFT BING
AERIAL IMAGARY
DATED 2025

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

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT
MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT
Middle Mile Infrastructure

CONSULTANT
AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER
60645418

SHEET TITLE
COVER SHEET

SHEET NUMBER
1

ANSI D 22" x 34"
Approved: ____
Checked: ____
Designer: FCS
Project Management Initials: ____
Last saved by: STONEF (2026-01-09) Last Plotted: 2026-01-09
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PROJECT NARRATIVE

THE PROJECT IS LOCATED IN VILLAGE OF SUGAR GROVE, ILLINOIS. THE PROJECT INCLUDES THE CONSTRUCTION OF ONE FIBER ILA HUT WITH ASSOCIATED FENCING, GRADING, AND GRAVEL SURFACE.

CONSTRUCTION SEQUENCE

1. STEP 1: ENSURE ALL NECESSARY PERMITS ARE ACQUIRED AND CONDUCT A PRE-CONSTRUCTION MEETING WITH THE A/E CONSTRUCTION MANAGER PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
2. STEP 2: HOLD PRE-CONSTRUCTION MEETING WITH NECESSARY PARTIES.
3. STEP 3: INSTALL INITIAL SEDIMENT & EROSION CONTROL BMP's PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
4. STEP 4: COMPLETE DEMOLITION, UTILITY INSTALLATION AND ROUGH GRADING AS SHOWN IN CONSTRUCTION PLANS. COMPLETE INSTALLATION OF ABOVE GROUND INFRASTRUCTURE AND FINE GRADING AS SHOWN IN CONSTRUCTION PLANS. ENSURE FINAL STABILIZATION OF ALL DISTURBED SURFACES IS ACHIEVED PRIOR TO DEMOBILIZATION.
5. STEP 5: SUBMIT NOTICE(S) OF TERMINATION AS REQUIRED TO ALL APPLICABLE PERMITTING AGENCY(IES).

GENERAL NOTES

1. THE VILLAGE OF SUGAR GROVE STANDARD SPECIFICATIONS FOR IMPROVEMENTS, STANDARD NOTES AND DETAIL SHEETS ARE HEREIN INCORPORATED BY REFERENCE. WHERE CONFLICTS EXIST BETWEEN PLAN NOTES, OR DETAILS TO VILLAGE OF SUGAR GROVE SPECIFICATIONS, NOTES, AND DETAILS, THE VILLAGE OF SUGAR GROVE SPECIFICATIONS, NOTES AND DETAILS SHALL PREVAIL.
2. ENSURE THAT ALL REQUIRED PERMITS AND OTHER SUBMITTALS ARE IN HAND PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
3. UTILITIES ARE ILLUSTRATED FOR INFORMATION PURPOSES ONLY. THE CLIENT WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF UTILITY LOCATIONS, SIZES, DEPTHS, OR FOR COMPLETENESS OF UTILITY INFORMATION. FOR ANY UTILITIES LOCATED DIFFERENTLY THAN SHOWN ON THE PLAN THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY AND MEET WITH ALL UTILITIES AFFECTED TO DETERMINE UTILITY LOCATIONS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE CAUSED BY ITS OPERATIONS OR THOSE OF ITS AGENTS. THE CONTRACTOR SHALL HOLD THE CLIENT HARMLESS FOR ANY THIRD-PARTY INCONVENIENCE CREATED BY WORK OF ITS OWN FORCES OR THAT OF ITS AGENTS. ANY DAMAGES INCURRED SHALL BE THE CONTRACTORS FINANCIAL RESPONSIBILITY.
   4.1. ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION. OTHER UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF WORK.
5. CONTACT ILLINOIS 811 PRIOR TO BEGINNING CONSTRUCTION.
6. WARNING: OVERHEAD UTILITIES. UNLESS OTHERWISE NOTED FOR RELOCATION, THE CONTRACTOR IS TO WORK UNDER ALL EXISTING OVERHEAD UTILITIES.
7. NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR MAY MAKE HIS OWN INVESTIGATION TO DETERMINE SUBSURFACE CONDITIONS.
8. IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE HIS OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA THAT IS AVAILABLE AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED AND WASTED, GRADED AND COMPACTED. THE INFORMATION SHOWN ON THESE PLANS AND SPECIFICATIONS DOES NOT IN ANY WAY GUARANTEE THE AMOUNT OR NATURE OF THE MATERIAL WHICH MAY BE ENCOUNTERED.
9. ALL INITIAL EROSION, SEDIMENTATION, & POLLUTION CONTROLS AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES.
10. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THEIR EMPLOYEES A WORKPLACE FREE FROM RECOGNIZED HEALTH AND SAFETY HAZARDS.
11. CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNER MONUMENTATION AND BENCHMARKS AND WILL BE RESPONSIBLE FOR THE COST OF REPLACING THEM IF DISTURBED OR DESTROYED.
12. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT AND/OR CONCRETE SURFACES PRIOR TO REMOVAL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SAW CUT WIDTH SHALL BE 1 FOOT MINIMUM FROM THE EXISTING EDGE OF PAVEMENT. SAW CUT PAVEMENT SHALL BE REPLACED AS WELL AS ADDITIONAL PAVEMENT REQUIRED TO TIE-IN TO FACE OF PROPOSED CURB AND GUTTER.
13. NO DEMOLITION MATERIALS SHALL BE DISPOSED OF ON-SITE. ALL VEGETATION (UNLESS OTHERWISE NOTED), EXISTING ASPHALT PAVEMENT, ORGANICS AND UNSUITABLE BEARING SOILS SHALL BE STRIPPED FROM THE SURFACE WITHIN THE CONSTRUCTION LIMITS AND DISPOSED OF LEGALLY OFFSITE AT A LOCATION APPROVED BY THE LOCAL JURISDICTION FOR THE HANDLING AND DEMOLITION OF DEBRIS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING THE BORROW MATERIAL NECESSARY AS SPECIFIED SPECIFICATIONS FOR THE CONSTRUCTION OF THIS PROJECT. ALL STRUCTURAL FILL PLACED AS A PART OF THIS PROJECT SHALL BE PLACED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
15. LIMITS OF PROPOSED SLOPES ARE INDICATED IN THE PLANS, DETAILS AND STANDARD DRAWINGS. THE MAXIMUM SLOPE SHALL NOT EXCEED A 3:1 (HORIZONTAL TO VERTICAL) UNLESS DESIGNATED BY THE ENGINEER. A CUT SLOPE OF 2:1 MAXIMUM WILL BE USED ONLY AS DIRECTED BY THE ENGINEER.
16. BACKFILL MATERIAL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE OPTIMUM COMPACTION FOR ANY SOIL CLASSIFICATION AS DETERMINED BY THE MODIFIED PROCTOR TEST ASTM D 1557. BACKFILL MATERIAL SHALL BE CLEAN AND FREE OF ROOTS, ROCK OR DELETERIOUS MATTER. CONTRACTOR SHALL CORRECT ANY DAMAGE TO CURBING OR PAVING CAUSED BY TRENCH SETTLEMENT WHICH OCCURS WITHIN 12 MONTHS OF PROJECT ACCEPTANCE.
17. THE CONTRACTOR SHALL LEAVE THE SITE IN A CLEAN AND NEAT CONDITION AS WELL AS PERFORM REGULAR MAINTENANCE.
18. CONTRACTOR SHALL PROTECT ALL ADJACENT LANDS FROM DAMAGE DURING DEMOLITION WORK, ANY OFF-SITE AREAS DISTURBED SHALL BE RETURNED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION PRIOR TO CONSTRUCTION.
19. ALL STRUCTURES NOT LABELED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY STRUCTURES THAT ARE TO REMAIN THAT ARE DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST.

EROSION CONTROL NOTES

1. PRIOR TO THE LAND DISTURBING CONSTRUCTION, THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
2. THE CONTRACTOR SHALL OBSERVE THE PROJECT SEQUENCE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SCHEDULING AND PERFORMANCE TO INSURE THAT LAND STRIPPED OF IT'S NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
3. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS BURN AND BURIAL HOLES SHALL BE LOCATED WITHIN 500 FEET OF DESIGNATED TREE PROTECTION AREAS.
4. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
5. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
6. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE AND ALL STREAM BUFFERS SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
7. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
8. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY:

a. THE CONSTRUCTION EXIT, CONSISTING OF A MINIMUM PAD SIZE OF 20 FEET BY 50 FEET WITH A MINIMUM OF 6" THICK STONE, SHALL BE PLACED AS SHOWN ON THE PLAN. THE STONE SIZE SHOULD CONSIST OF COURSE AGGREGATE BETWEEN 1-1/2" & 3-1/2" IN DIAMETER AND OVERLAID ON A GEOTEXTILE UNDERLINER. THE GEOTEXTILE UNDERLINER SHALL MEET THE REQUIREMENTS OF AASHTO M288-96, SECTION 7.3 SEPARATION REQUIREMENTS.

b. IMMEDIATELY AFTER ESTABLISHMENT OF CONSTRUCTION ENTRANCE/EXITS, ALL PERIMETER EROSION CONTROL AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.

c. SILT FENCE SHOULD BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE PLAN. THE SILT FENCE SHOULD BE PLACED IN ACCORDANCE WITH THE IDOT BUREAU OF DESIGN AND ENVIRONMENTAL MANUAL 41-3.01(b). THE SILT FENCE SHOULD BE KEPT ERECT AT ALL TIMES AND REPAIRED WHEN REQUESTED BY THE SITE INSPECTOR OR THE PROJECT DESIGN PROFESSIONAL OF RECORD. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF BARRIER. THE PERIMETER SILT FENCE SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

d. INLET SEDIMENT PROTECTION MEASURES SHALL BE INSTALLED ON ALL EXISTING STORM STRUCTURES AS SHOWN ON THE PLAN. SEE SEPARATE DETAILS FOR SPECIFICS ON TYPE OF INLET PROTECTION SPECIFIED.

e. STONE CHECK DAMS SHALL BE INSTALLED IN AREAS OF CONCENTRATED FLOWS AS SHOWN ON THE PLAN.

f. TREE PROTECTION FENCING/SILT FENCING SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBANCE ACTIVITY AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED. THE TREE PROTECTION FENCING/SILT FENCING SHOULD BE INSPECTED DAILY. ANY FAILURES OF SAID FENCING SHOULD BE REPAIRED IMMEDIATELY.

9. AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT DESIGN PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE SITE INSPECTION.
10. AFTER APPROVAL OF THE INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS AND DIVERSION DIKES AS SHOWN ON THE CLEARING PHASE PLAN TO CONTROL EROSION AND STORM WATER RUN OFF.
11. THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION CONTROL PLANS WILL INSPECT THE INSTALLATION OF THE BMP's WITHIN SEVEN DAYS AFTER INITIAL CONSTRUCTION ACTIVITY BEGINS.
12. THE CONTRACTOR CAN UTILIZE CLEARED TREES AS BARRIER BRUSH SEDIMENT CONTROL IN AREAS SHOWN ON PLAN WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.
13. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER.
14. ADDITIONAL SILT BARRIERS MUST BE PLACED AS SHOWN ON THE PLAN AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL TAKE PLACE UNTIL SILT BARRIER INSTALLATION AND SEDIMENT PONDS ARE CONSTRUCTED AS SHOWN ON THE CLEARING PHASE EROSION CONTROL PLAN.
15. ALL SILT FENCES MUST MEET THE REQUIREMENTS OF STANDARD DRAWING FOR THE CURRENT ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS.
16. ALL ITEMS IN THIS SECTION OF THE SPECIFICATION SHALL MEET THE REQUIREMENTS AS SET FORTH IN THE CURRENT ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS CONSTRUCTION OF TRANSPORTATION SYSTEMS.
17. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
18. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
19. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

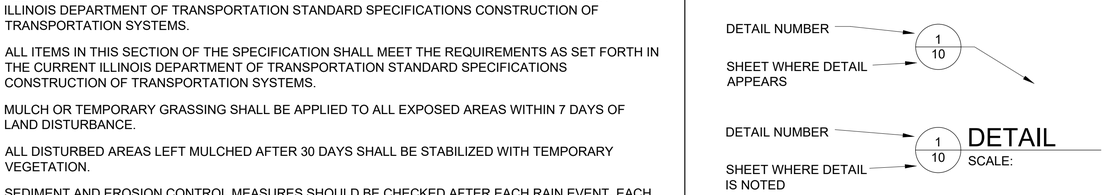
EROSION CONTROL NOTES

20. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A METHOD WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS DEMAND. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY OR INTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
21. CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
22. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
23. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
24. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.

FINAL PHASE-EROSION CONTROL NOTES

1. THE FOLLOWING EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE FINAL EROSION CONTROL PHASE OF CONSTRUCTION.
2. SEDIMENT SHALL NOT BE WASHED INTO INLETS. IT SHALL BE REMOVED FROM THE SEDIMENT TRAPS AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLETS AGAIN.
3. MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 7 DAYS OF LAND DISTURBANCE.
4. ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY GRASSING.
5. THE CONTRACTOR SHALL MAINTAIN ALL SEDIMENT PONDS AND EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENT SHALL BE CLEANED OUT OF THE PONDS WHEN IT REACHES THE HALF WAY POINT ON THE RISER.
6. AFTER CURBING, GRADED AGGREGATE BASE, AND PAVEMENT HAS BEEN INSTALLED, ALL INLET SEDIMENT TRAPS ON SINGLE AND DOUBLE WING CATCH BASINS ALONG WITH ANY CURB INLETS SHALL BE REMOVED AND REPLACED WITH CURB FILTER INLET PROTECTION. SEE SEPARATE DETAIL FOR ADDITIONAL INFORMATION.
7. ALL ROADWAY AND PARKING SHOULDERS SHOULD BE APPLIED WITH VEGETATIVE COVER AS SOON AS FINAL GRADE IS ACHIEVED BEHIND CURBS.
8. SEDIMENT AND EROSION CONTROL MEASURES SHOULD BE CHECKED AFTER EACH RAIN EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.
9. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACK OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1-3" OF STONE, AS CONDITIONS ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
10. THE CONTRACTOR SHALL INSPECT CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
11. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AS DIRECTED BY THE ON SITE INSPECTOR OR THE CIVIL ENGINEER.
12. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE APPROVED EROSION CONTROL PLANS.
13. THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL MEASURES INCLUDING REPLACING OR REPAIRING ANY DAMAGED DEVICES DUE TO ANY CONSTRUCTION ACTIVITY BY OTHERS.
14. UPON COMPLETION OF THE PROJECT AND RECEIPT OF "CERTIFICATE OF OCCUPANCY", THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND DISPOSE OF THEM UNLESS NOTED ON PLANS.

DETAIL REFERENCES



ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

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ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

2

Project Management Initials: Designer: FCS Checked: Approved: ANSI D 22" x 34"
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(H) - NAD 83 (2011)
(V) - NAVD 88
IL GRID EAST

LEGEND

- WORK LIMIT LINE
- PROPERTY LINE
- RIGHT OF WAY LINE
- 765 — EXISTING MAJOR CONTOUR
- 761 — EXISTING MINOR CONTOUR
- PROPOSED EASEMENT LINE
- EXISTING WATER MAIN
- OHP — EXISTING OVERHEAD ELECTRIC
- EXISTING VEGETATION

NOTES

1. SEE GENERAL NOTES, SHEET 2.

0 20' 40'
GRAPHIC SCALE: 1" = 20'

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SHEET TITLE

EXISTING CONDITIONS

SHEET NUMBER

3

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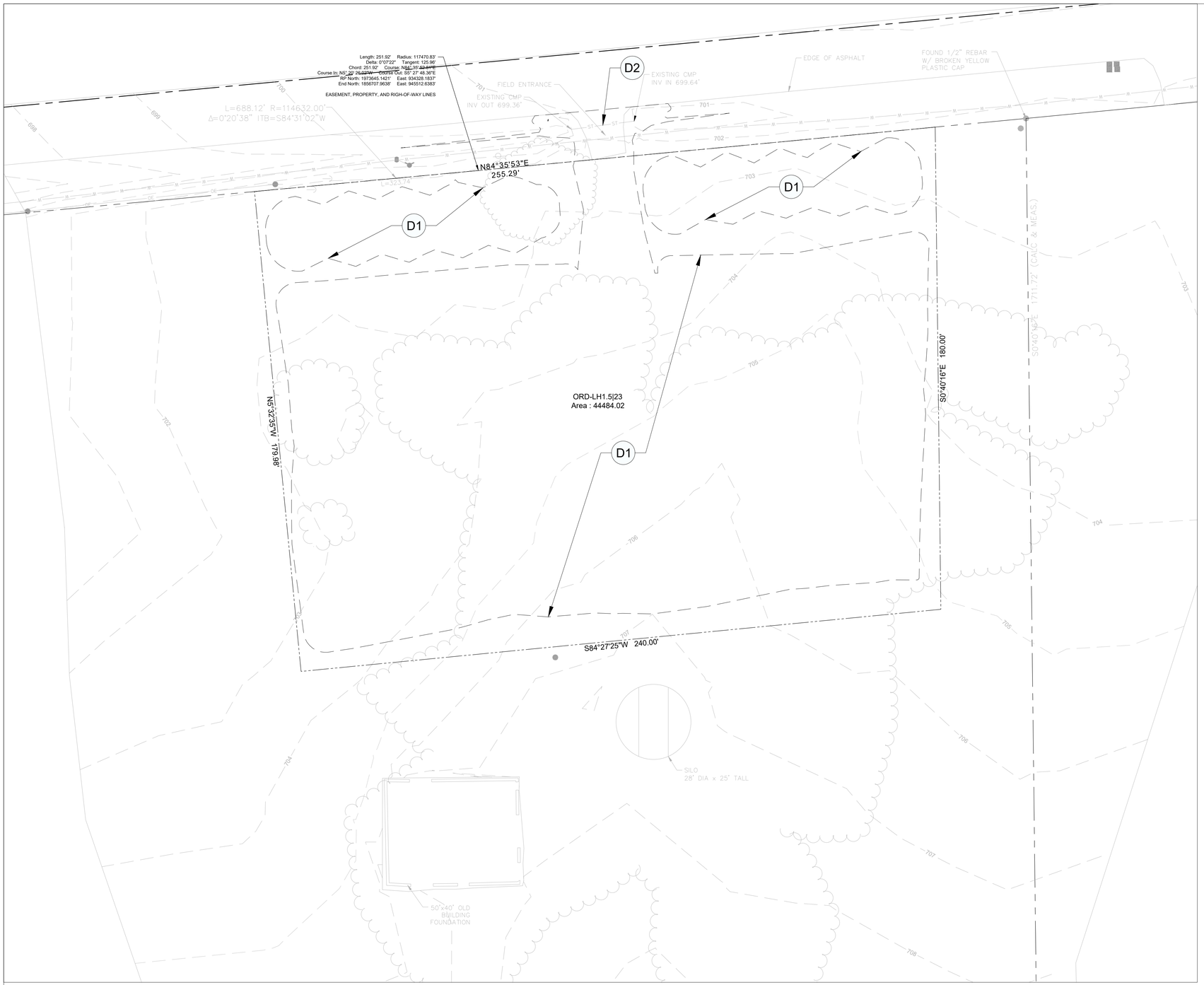

CONSTRUCTION NOTES

D1 REMOVE VEGETATION AS NEEDED FOR CONSTRUCTING PAD, GRADING & ABOVE-GROUND INFRASTRUCTURE.

2 REMOVE EXISTING PAVEMENT AND CULVERT

(H) - NAD 83 (2011)
(V) - NAVD 88
IL GRID EAST

LEGEND

	WORK LIMIT LINE
	PROPERTY LINE
	RIGHT OF WAY LINE
765	EXISTING MAJOR CONTOUR
761	EXISTING MINOR CONTOUR
	PROPOSED EASEMENT LINE
	EXISTING TREELINE

NOTES

1. DEMOLITION AND REMOVAL WORK MUST NOT DAMAGE EXISTING ITEMS TO REMAIN. CONTRACTOR MUST PROMPTLY REPORT TO THE A/E CONSTRUCTION MANAGER ALL DAMAGE RESULTING FROM HIS OPERATIONS ALONG WITH HIS REPAIR RECOMMENDATION FOR A/E APPROVAL. CONTRACTOR MUST REPAIR ALL DAMAGES RESULTING FROM HIS OPERATIONS TO THE SATISFACTION OF THE A/E CONSTRUCTION MANAGER.
2. ITEMS IDENTIFIED AS TO BE DEMOLISHED OR REMOVED AND DEBRIS MUST BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF SITE. EXERCISE CARE WHEN REMOVING ITEMS TO AVOID DAMAGING ADJACENT ITEMS REMAINING.
3. SEE GENERAL NOTES, SHEET 2.

0 20' 40'
GRAPHIC SCALE: 1" = 20'

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PROJECT

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SHEET TITLE

DEMOLITION

SHEET NUMBER

4

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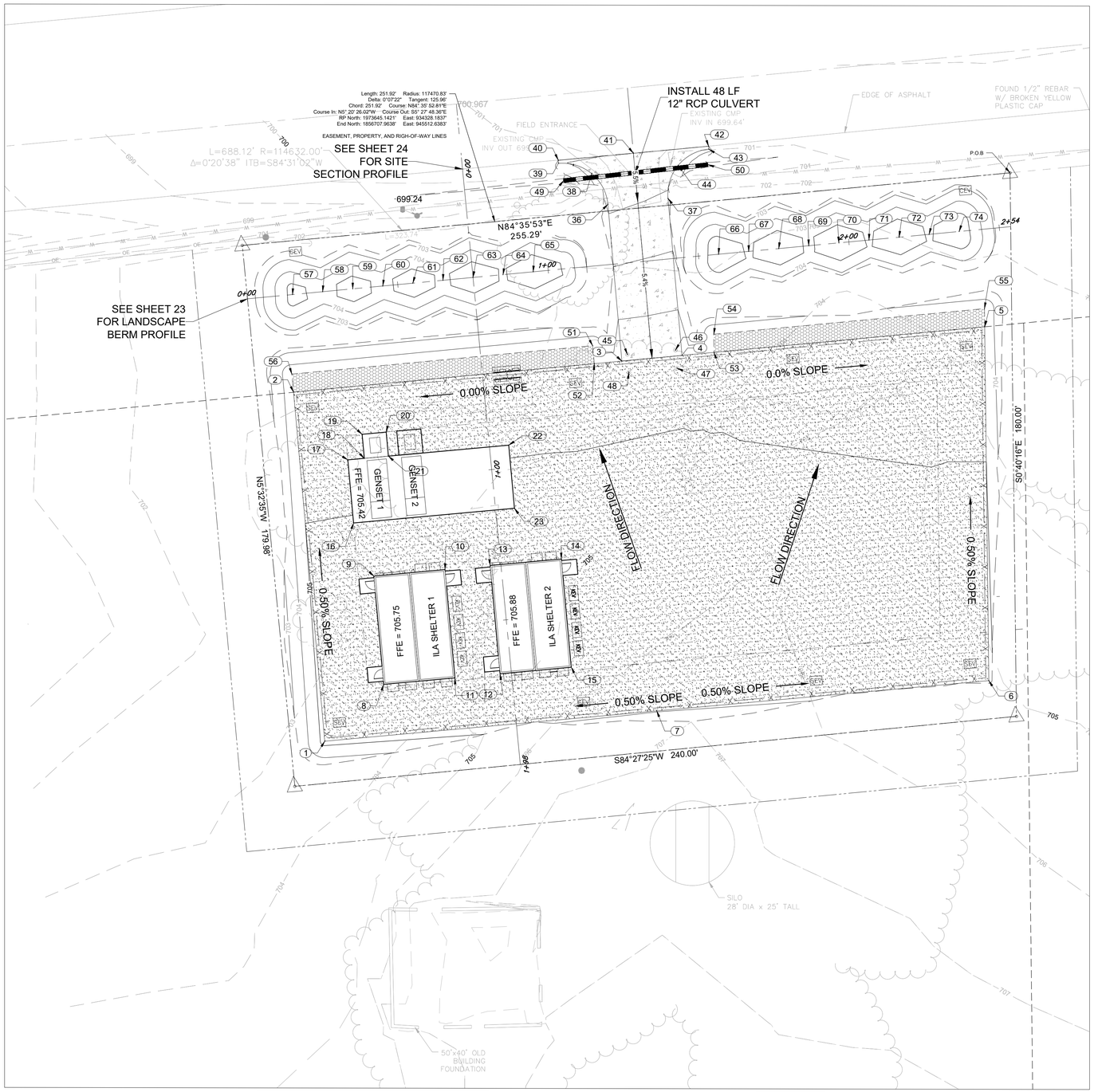

GRADING NOTES

1. CONSTRUCT SITE TO PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN USING SUITABLE MATERIAL. GRADES SHOWN ARE TOP OF FINAL GRADE.
2. CONTRACTOR SHALL BE AWARE OF EXISTING UTILITY LINE(S) DURING DRIVEWAY CULVERT INSTALLATION.
3. ALL NEW PAVEMENT/GRAVEL ABUTTING EXISTING PAVEMENTS/GRAVEL SHALL MATCH THE ELEVATION OF THE EXISTING.
4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES.
5. SEE GENERAL NOTES, SHEET 2.

LEGEND

ECR - END OF CURVE RADIUS
EOC - EDGE OF CONCRETE
EOG - EDGE OF GRAVEL
SPOT - FINISHED GRADE
TOB - TOP OF BERM
EG - EXISTING GROUND ELEVATION
(TIE TO EXISTING POINT)

0 20' 40'
GRAPHIC SCALE: 1" = 20'

(H) - NAD 83 (2011)
(V) - NAVD 88
IL GRID EAST

LEGEND

- WORK LIMIT LINE
- PROPERTY LINE
- RIGHT OF WAY LINE
- 765 EXISTING MAJOR CONTOUR
- 761 EXISTING MINOR CONTOUR
- 760 PROPOSED MAJOR CONTOUR
- 761 PROPOSED MINOR CONTOUR
- PROPOSED EASEMENT LINE
- EXISTING TREE LINE
- X FENCE LINE
- GRAVEL
- CONCRETE

Point Table				
Point #	Description	Elevation	Northing	Easting
1	EOG	705.36	1856519.7433	945285.7726
2	EOG	704.78	1856635.3362	945275.4583
3	EOG	704.78	1856645.6142	945384.1321
4	EOG	704.78	1856647.4974	945404.0433
5	EOG	704.78	1856656.9732	945504.2349
6	EOG	705.36	1856539.8120	945505.6072
7	EOG	705.91	1856529.7776	945395.6899
8	EOG	705.38	1856538.5664	945305.2971
9	EOG	705.16	1856574.4173	945302.0239
10	EOG	705.23	1856576.5689	945325.5929
11	EOG	705.50	1856540.7179	945328.8657
12	EOG	705.53	1856542.0816	945343.8033
13	EOG	705.26	1856577.9325	945340.5300
14	EOG	705.32	1856580.0841	945364.0991
15	EOG	705.63	1856544.2332	945367.3719
16	EOG	705.01	1856592.0090	945295.3109
17	EOG	704.90	1856612.9221	945293.4017
18	EOG	704.90	1856613.4221	945298.8789
19	EOG	704.86	1856621.3889	945298.1516
20	EOG	704.86	1856622.1162	945306.1185
21	EOG	704.90	1856614.1494	945306.8458
22	EOG	704.98	1856617.7856	945346.6773
23	EOG	705.14	1856596.8726	945348.5864
36	EOC	702.06	1856697.5082	945379.5163
37	EOC	702.38	1856699.4891	945399.4187
38	ECR	701.47	1856707.7366	945374.1717
39	EOC	700.88	1856711.1875	945363.1592
40	EG	700.88	1856712.1831	945363.0651
41	EG	701.08	1856714.4667	945387.9573
42	EG	701.20	1856716.7867	945412.8456
43	EOC	701.20	1856715.7858	945412.9408
44	ECR	701.78	1856710.4219	945402.8240
45	BOLLARD	704.68	1856647.8347	945385.9461
46	BOLLARD	704.69	1856649.2618	945401.8823
47	BOLLARD	704.81	1856643.2857	945402.4175
48	BOLLARD	704.82	1856641.8587	945386.4813
49	INV OUT	699.40	1856705.3843	945364.8446
50	INV IN	700.00	1856710.6770	945412.5929
51	INFIL. TRENCH	704.78	1856650.7252	945374.4491
52	INFIL. TRENCH	704.78	1856644.7519	945375.0141
53	INFIL. TRENCH	704.78	1856648.4991	945414.6348
54	INFIL. TRENCH	704.78	1856654.5192	945414.5642
55	INFIL. TRENCH	704.78	1856662.9933	945504.1644
56	INFIL. TRENCH	704.78	1856641.3096	945274.8934
57	TOB	705.43	1856667.6681	945275.1279

Point Table				
Point #	Description	Elevation	Northing	Easting
58	TOB	704.50	1856668.6096	945285.0835
59	TOB	705.57	1856669.5510	945295.0391
60	TOB	704.63	1856670.4931	945304.9946
61	TOB	705.69	1856671.4345	945314.9502
62	TOB	704.75	1856672.3753	945324.9058
63	TOB	705.80	1856673.3167	945334.8614
64	TOB	704.86	1856674.2588	945344.8169
65	TOB	705.92	1856675.1995	945354.7726
66	TOB	705.89	1856681.0046	945416.1546
67	TOB	704.85	1856681.9461	945426.1102
68	TOB	705.81	1856682.8875	945436.0658
69	TOB	704.81	1856683.8280	945446.0215
70	TOB	705.87	1856684.7685	945455.9771
71	TOB	704.87	1856685.7109	945465.9326
72	TOB	705.87	1856686.6523	945475.8882
73	TOB	704.86	1856687.5946	945485.8437
74	TOB	705.86	1856688.5360	945495.7993

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SHEET TITLE

GRADING PLAN

SHEET NUMBER

5

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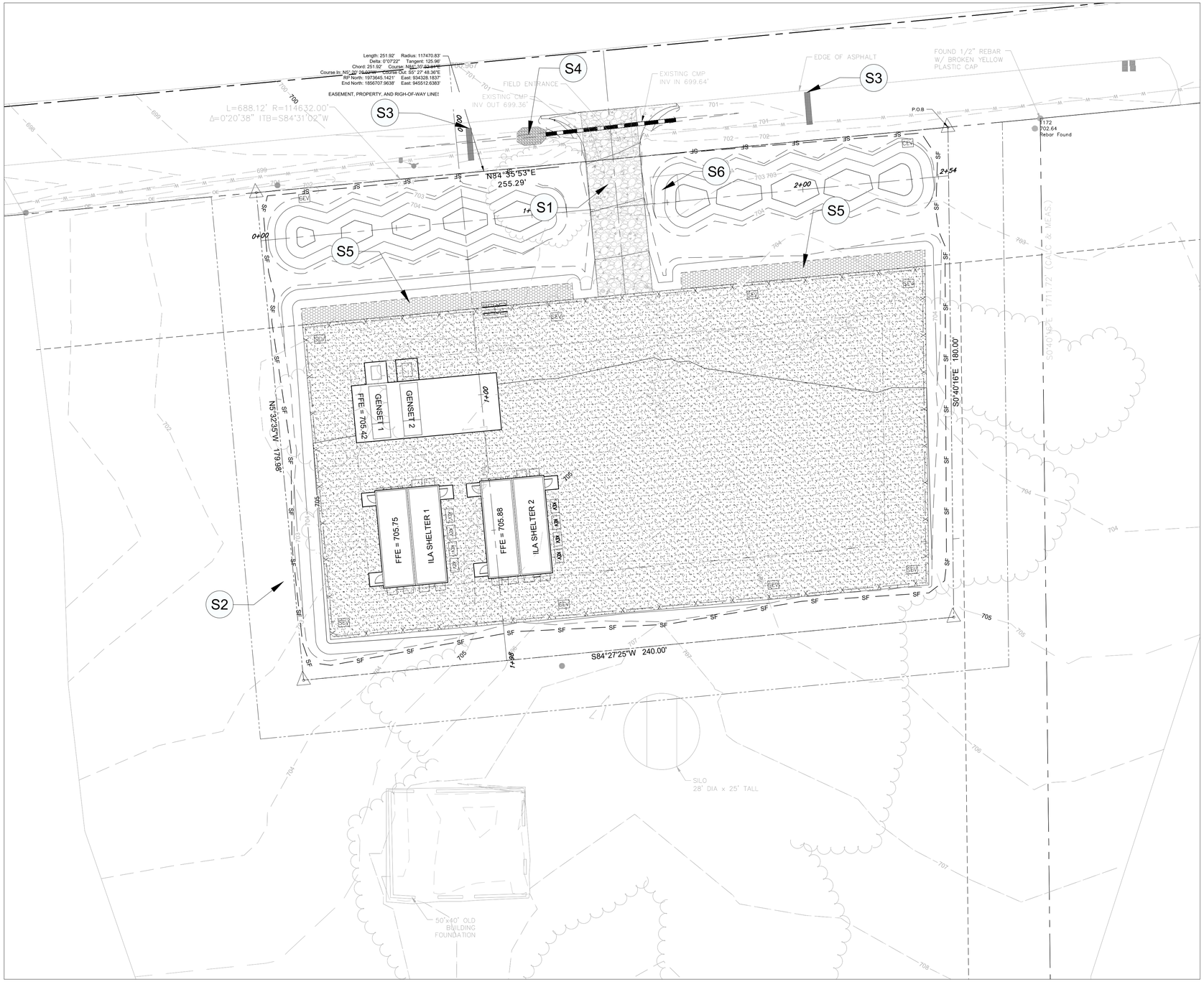

HORIZONTAL - NAD 83 (2011)
VERTICAL - NAVD 88
IL GRID EAST

LEGEND

WORK LIMIT LINE	
PROPERTY LINE	
760	EXISTING MAJOR CONTOUR
761	EXISTING MINOR CONTOUR
760	PROPOSED MAJOR CONTOUR
761	PROPOSED MINOR CONTOUR
× 760.50	PROPOSED SPOT ELEVATION
SF	SILT FENCE
	CONSTRUCTION ENTRANCE

EROSION CONTROL NOTES

1. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
2. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
3. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
4. SEE GENERAL NOTES, SHEET #.
5. SEE EROSION CONTROL DETAILS, SHEET 7.

CONSTRUCTION NOTES:

- S1 CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE, SEE DETAIL — 1/7
- S2 CONSTRUCT TEMPORARY SILT FENCE, SEE DETAIL — 2/7
- S3 INSTALL TEMPORARY ROCK CHECK DAM, SEE DETAIL — 3/7
- S4 INSTALL ROCK OUTLET PROTECTION SEE DETAIL — 4/7
- S5 INFILTRATION TRENCH, SEE DETAIL — 5/7
- S6 CONSTRUCT TEMPORARY CONCRETE WASHOUT PIT.

SEE SHEET 7 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.

0 20' 40'
GRAPHIC SCALE: 1" = 20'

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SHEET TITLE

EROSION CONTROL PLAN

SHEET NUMBER

6

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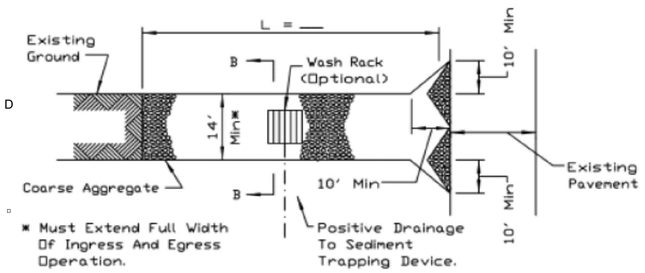
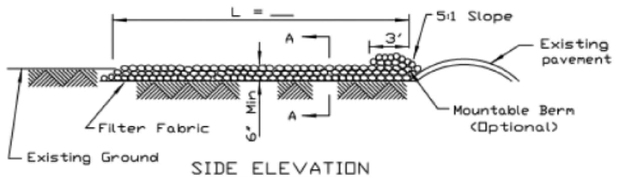


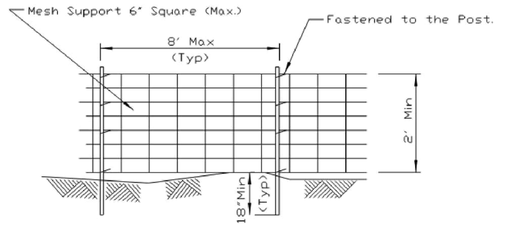
PLAN VIEW



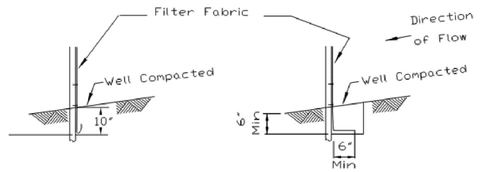
SIDE ELEVATION

NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

1/7 STABLIZED CONSTRUCTIN ENTRANCE
NOT TO SCALE



ELEVATION

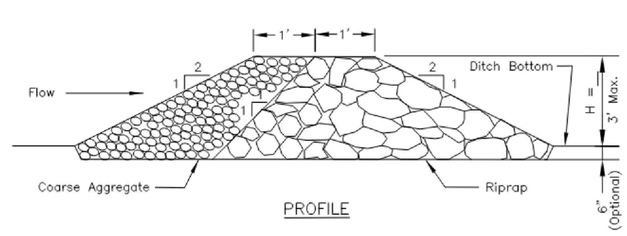


FABRIC ANCHOR DETAIL

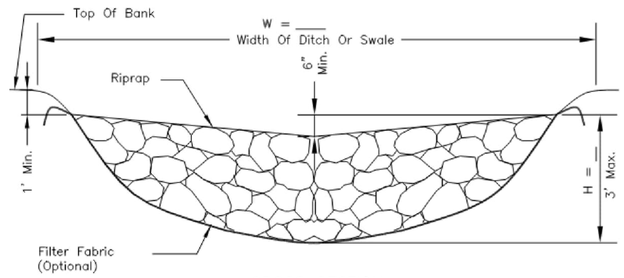
STATIC SLICE INSTALLATION TRENCH INSTALLATION

NOTES:
1. Silt Fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization. Silt fence shall be placed on the flattest area available.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1, Class 2.
3. Fence posts shall be either standard steel post or wood post 2"X2" nominal.
4. Wire mesh may be omitted if post spacing is 5' on center or less.

2/7 SILT FENCE
NOT TO SCALE



PROFILE



CROSS SECTION
CENTERLINE LOOKING DOWNSTREAM

NOTES;
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, or IV and shall be placed over the cleared area prior to the placing of rock.
2. Coarse aggregate shall meet one of the following IDOT gradations, CA-1, CA-2, CA-3, or CA-4.
3. Riprap shall meet IDOT gradation RR-3 or RR-4 and meet Quality Designation A.
4. Coarse aggregate and riprap shall be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
5. For added stability, the base of the dam may be keyed 6 inches into the soil.
6. See plans for spacing of dams and H dimensions.
7. Maximum drainage area to each dam is 10 acres.
8. ROCK CHECK DAM-COARSE AGGREGATE IL-605CA may be used for drainage areas under 2 acres.

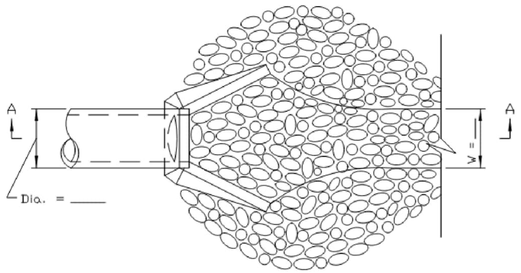
GRASSING NOTES

- Lawn Grass Mix. Lawn grass seed shall be fresh, clean, new crop seed; mechanically premixed to the specified proportions. Lawn grass seed shall be a blend of the following: Kentucky Bluegrass, 80%, Rye Grass, 20%; planted at a rate of 3.0 pounds per 1000 square feet.
- Standards. Grass seeds shall comply with "Standards of Official Seed Analysts of North America," published by the Association of Official Seed Analysts, most recent edition; for 85% purity, 80% germination and 1% (maximum) weed seed (68% PLS).
- Delivery. Seed shall be delivered to the site in original unopened containers, bearing the dealer's guaranteed analysis and germination percentage and a certificate or stamp or release by a County agriculture commissioner.
- Seed to be applied by hydraulic method shall be mixed with wood fiber mulch, fertilizer and polymer at 50 pounds per 100 square feet.
- Fertilizer: Recommended for grass, with fifty percent of the elements derived from organic sources; of proportion necessary to eliminate any deficiencies of topsoil, as indicated by analysis.
- Water: Clean, fresh and free of substances or matter which could inhibit vigorous growth of grass.

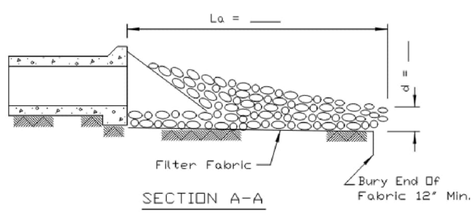
GENERAL DETAIL NOTES

- DETAILS 1, 2, 3, AND 4: SOURCE: ILLINIOS DEPARTMENT OF ENVIRONMENTAL QUALITY (IDEQ), DEPARTMENT OF WATER QUALITY, ILLINOIS URBAN MANUAL, PRACTICE STANDARDS, FEBRUARY 2020. https://illinoisurbanmanual.org/
- REFER TO IDEQ STANDARD SPECIFICATIONS AS SPECIFIED IN THE DETAILS

Pipe Outlet To Well-Defined Channel



PLAN

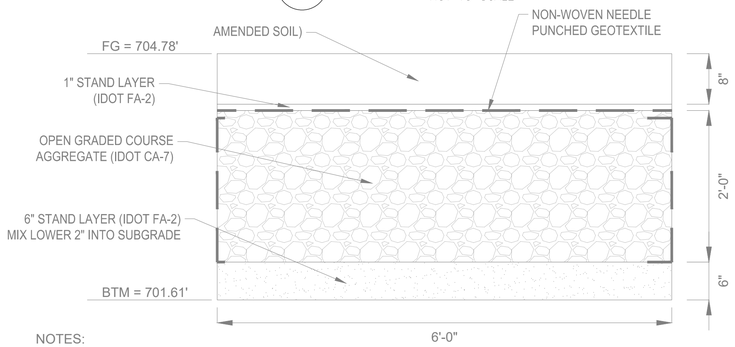


SECTION A-A

NOTES:
1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I, II or III .
2. The rock riprap shall meet the IDOT requirements for the following gradation _____ .
3. The riprap shall be placed according to construction specification 61 LOOSE ROCK RIPRAP. The rock may be equipment placed.

4/7 OUTLET PROTECTION DETAIIL
NOT TO SCALE

3/7 ROCK CHECK DAM
NOT TO SCALE



NOTES:
1. DETAIL PER KANE COUNTY STORM WATER TECHNICAL MANUAL
2. BASED ON KANE COUNTY GIS INFORMATION, SUGAR GROVE NORTH BRANCH IS LOCATED APPROXIMATELY 670 FEET WEST OF THE SUBJECT SITE. SUGAR GROVE NORTH BRANCH IS AT AN ELEVATION OF APPROXIMATELY 681 FEET. BASED ON AREA TOPOGRAPHY, THE AREA IN THE VICINITY OF THE SITE SLOPES TO THE WEST-NORTHWEST. FINISH GRADE ELEVATION OF THE TOP AND BOTTOM OF THE INFILTRATION TRENCHES ARE 704.78' AND 701.61. THE ESTIMATED SEASONALLY HIGH WATER TABLE (ESHWT) IS AT APPROXIMATELY ELEV. 696' THE BOTTOM ELEVATION OF THE PROPOSED INFILTRATION TRENCHES IS ELEV. 701.61' (APPROXIMATELY 5.6-FT SEPARATION BETWEEN THE ESHWT).

TOTAL IMPERVIOUS	9,321 SF
1" RAINFALL RETENTION REQUIREMENT	776.75 CFT
TOTAL LENGTH	190 LF
TRENCH VOLUME	2,280 CFT
STORAGE VOLUME (36% POROSITY)	820.8 CFT (776.75 CFT REQUIRED)
INFILTRATION RATE	0.10 IN/HR
TOTAL INFILTRATION AREA (BOTTOM & SIDES)	1,924 CFT
INFILTRATION CAPACITY	16.0 CFT/HR
RETENTION (DRAINAGE) TIME	51 HRS (72-HR MAX RETENTION)

5/7 TYPICAL INFILTRATION TRENCH
NOT TO SCALE

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT
MMI - UNMANNED ILA UTILITY BUILDING
ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT
Middle Mile Infrastructure

CONSULTANT
AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

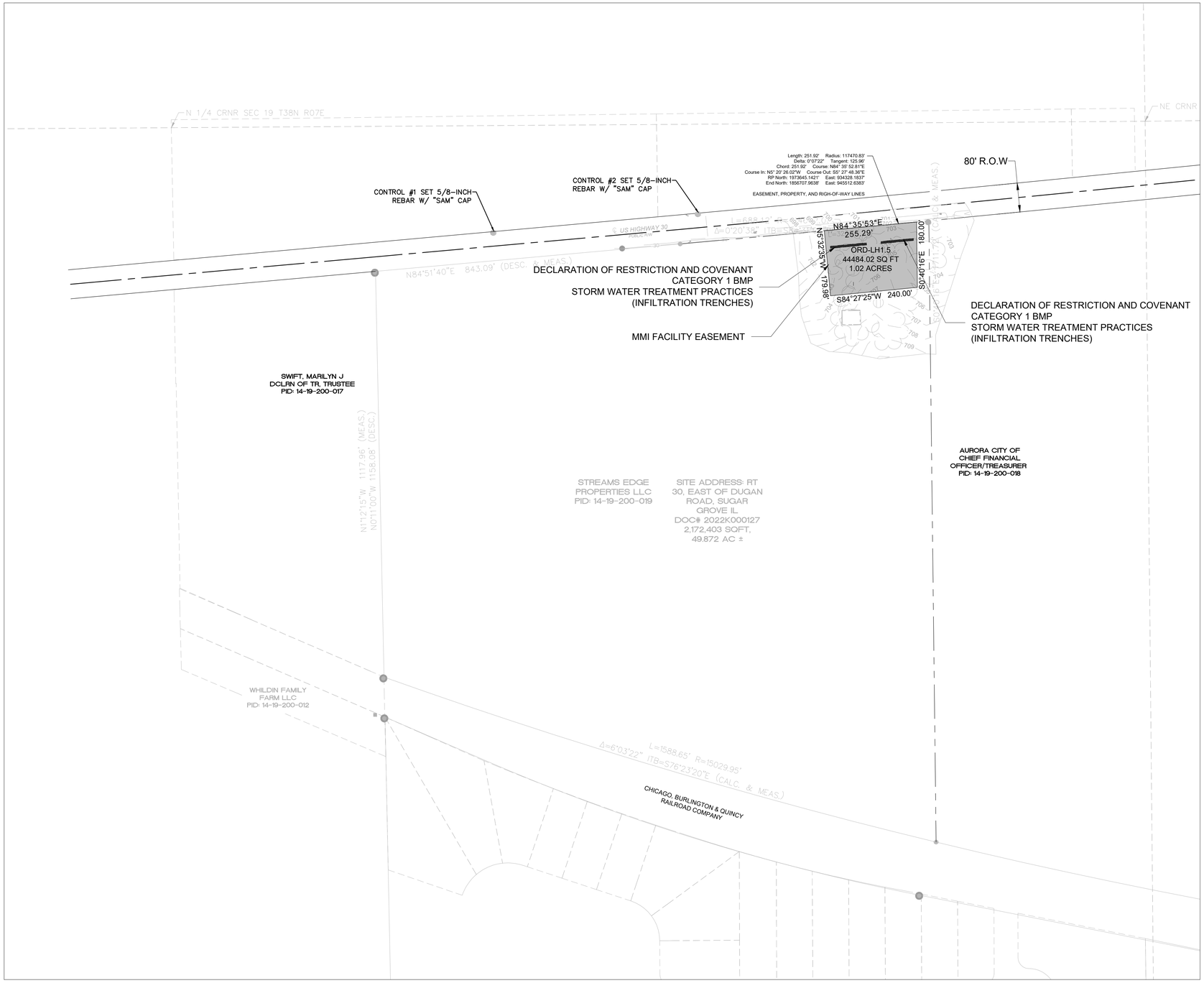
I/R	DATE	DESCRIPTION

PROJECT NUMBER
60645418

SHEET TITLE
EROSION CONTROL NOTES & DETAILS

SHEET NUMBER
7

ANSI D 22" x 34"
Approved: ____
Checked: ____
Designer: FCS
Project Management Initials: ____
Last saved by: STONEF (2025-11-14) Last Plotted: 2026-01-08
Filename: C:\USERS\STONEF\ONEDRIVE - AECOM\INDIGO - CITY METRO'S - DOCUMENTS\GENERAL\900_CAD\ORD-LH\ORD-LH1.5\04-CAD\03-SHEETS\ARTEMIS-H-SHT-C-EC DETAILS.DWG



LEGEND

- PROPOSED EASEMENT LINE
- PROPERTY LINE
- RIGHT OF WAY LINE
- EXISTING WETLANDS

SITE DATA:

SITE ADDRESS:	ROUTE 30 SUGAR GROVE, IL 60554
PIN/MAP #:	14-19-200-019
LEGAL DESCRIPTION:	THAT PART OF THE NORTHEAST QUARTER OF SECTION 19 AND PART OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 38 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN
ZONING:	M-1 (LIGHT MANUFACTURING)
LAND USE:	VACANT LAND
PROPERTY ACREAGE:	49.87 AC / 2,172,404 SF
PROPOSED EASEMENT AREA:	1.02 AC / 44,484 SF
PROPOSED EASEMENT LAND USE:	PUBLIC UTILITY
SETBACKS:	FRONT: 50' SIDE: 30' REAR: 30'

0 150' 300'

GRAPHIC SCALE: 1" = 150'

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

PROPOSED EASEMENT EXHIBIT

SHEET NUMBER

8

Project Management Initials: Designer: FCS Checked: ____ Approved: ____ ANSI D 22" x 34"
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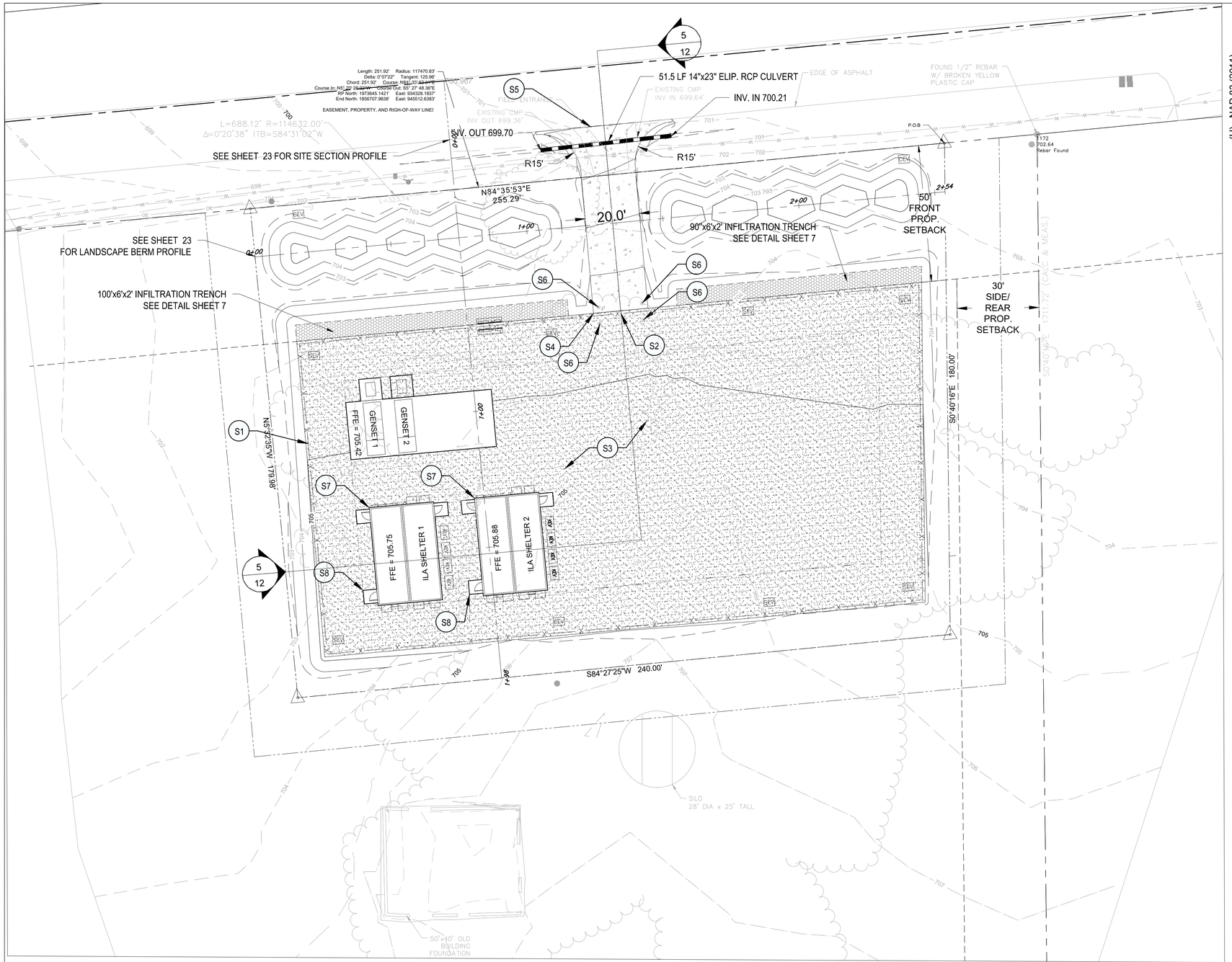

CONSTRUCTION NOTES

- S1 CONSTRUCT 8' HIGH FENCE, SEE DETAIL (1/11)
- S2 CONSTRUCT MANUAL SLIDING GATE , SEE DETAIL (2/11)
- S3 CONSTRUCT GRAVEL PAVEMENT THROUGHOUT SITE, SEE DETAIL (2/12)
- S4 CONSTRUCT KNOX BOX
- S5 CONSTRUCT CONCRETE DRIVEWAY, SEE DETAIL (1/12)
- S6 CONSTRUCT BOLLARDS AROUND GATE, 36" SPACING, SEE DETAIL (4/14)
- S7 CONSTRUCT CONCRETE SHELTER FOUNDATION, SEE DETAIL (2/13)
- S8 CONCRETE APRON (TYP. 3), SEE DETAIL (3/12)

(H) - NAD 83 (2011)
(V) - NAVD 88
IL GRID EAST

LEGEND

- WORK LIMIT LINE
- EASEMENT LINE
- RIGHT OF WAY LINE
- 765 EXISTING MAJOR CONTOUR
- 761 EXISTING MINOR CONTOUR
- 760 PROPOSED MAJOR CONTOUR
- 761 PROPOSED MINOR CONTOUR
- PROPOSED EASEMENT LINE
- SETBACK LINE
- U-FOC PROPOSED FIBER
- X X FENCE LINE
- TEMPORARY CONSTRUCTION EASEMENT
- GRAVEL
- CONCRETE

SITE NOTES

1. DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT, CONCRETE & GRAVEL PAD UNLESS SHOWN OTHERWISE.
2. ALL NEW PAVEMENT ABUTTING EXISTING PAVEMENTS SHALL MATCH THE ELEVATION OF THE EXISTING.
3. SEE GENERAL NOTES, SHEET 2.
4. SITE DETAILS, SEE SHEET 11 - 12.
5. PROPOSED PURCHASE EXHIBIT, SEE SHEET 8.

SITE DATA:

SITE ADDRESS:	ROUTE 30 SUGAR GROVE, IL 60554
PIN/MAP #:	14-19-200-019
LEGAL DESCRIPTION:	THAT PART OF THE NORTHEAST QUARTER OF SECTION 19 AND PART OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 38 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN
ZONING:	M-1 (LIGHT MANUFACTURING)
LAND USE:	VACANT LAND
PROPERTY ACREAGE:	49.87 AC / 2,172,404 SF
PROPOSED EASEMENT AREA:	1.009 AC / 43,952 SF
PROPOSED DISTURBED AREA:	0.725 AC / 31,577SF
EXISTING IMPERVIOUS	0.006 AC / 271 SF
PROPOSED IMPERVIOUS	0.104 AC / 4,533 SF
NET INCREASE IMPERVIOUS	0.098 AC / 4,262 SF
GRAVEL (FREE DRAINING)	0.532 AC / 23,184 SF
PROPOSED EASEMENT LAND USE:	PUBLIC UTILITY
SETBACKS:	FRONT: 50' SIDE: 30' REAR: 30'

0 20' 40'
GRAPHIC SCALE: 1" = 20'

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

SITE PLAN - INITIAL BUILD

SHEET NUMBER

9

Project Management Initials: Designer: FCS Checked: ____ Approved: ____ ANSI D 22" x 34"

Last saved by: STONEF (2026-01-08) Last Plotted: 2026-01-08
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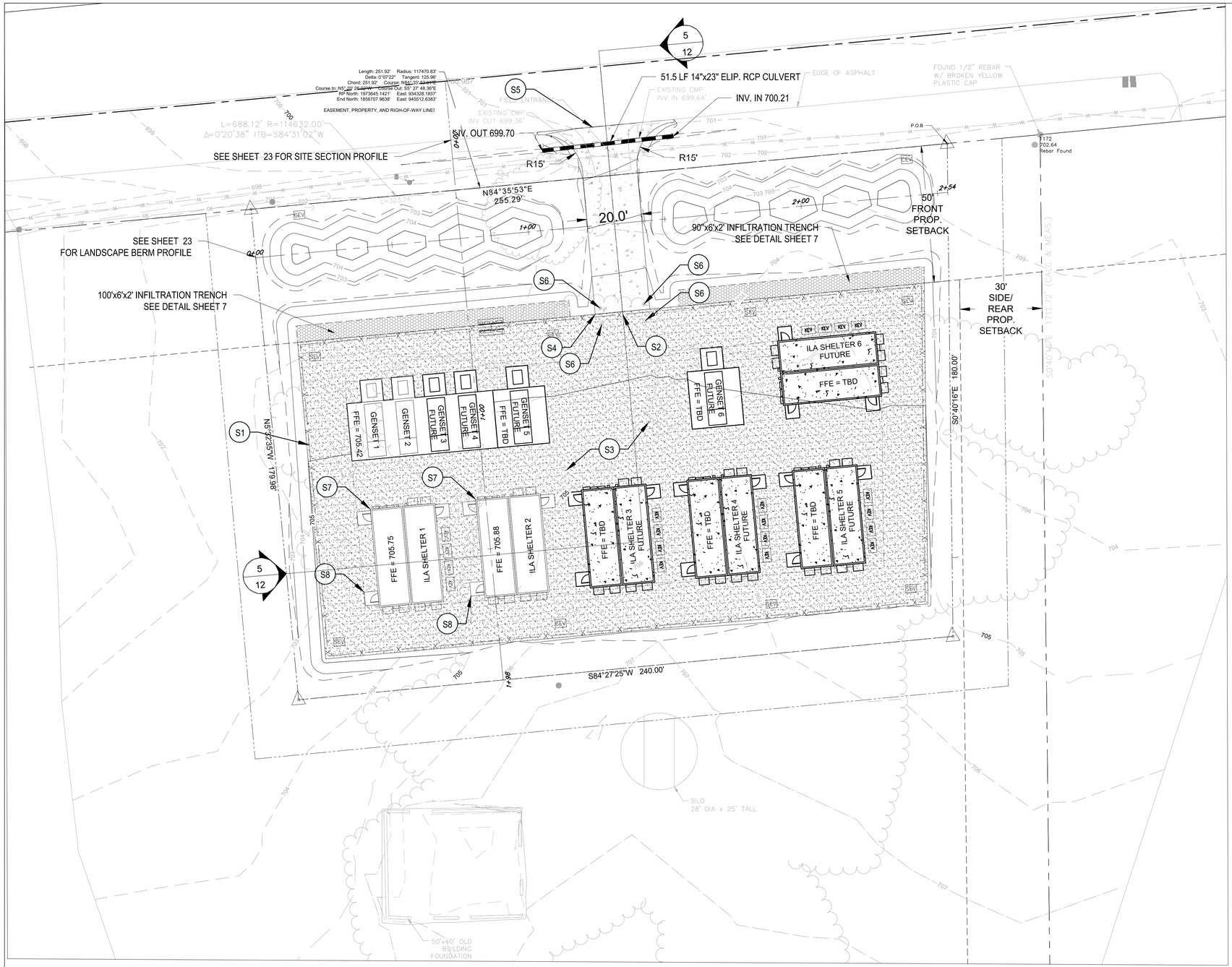

CONSTRUCTION NOTES

- S1 CONSTRUCT 8' HIGH , SEE DETAIL — 1/11
- S2 CONSTRUCT MANUAL SLIDING GATE , SEE DETAIL — 2/11
- S3 CONSTRUCT GRAVEL PAVEMENT THROUGHOUT SITE, SEE DETAIL — 2/12
- S4 CONSTRUCT KNOX BOX
- S5 CONSTRUCT CONCRETE DRIVEWAY, SEE DETAIL — 1/12
- S6 CONSTRUCT BOLLARDS AROUND GATE, 36" SPACING, SEE DETAIL — 4/14
- S7 CONSTRUCT CONCRETE SHELTER FOUNDATION, SEE DETAIL — 2/13
- S8 CONCRETE APRON (TYP. 3), SEE DETAIL — 3/12

(H) - NAD 83 (2011)
(V) - NAVD 88
IL GRID EAST

LEGEND

- WORK LIMIT LINE
- EASEMENT LINE
- RIGHT OF WAY LINE
- 765 EXISTING MAJOR CONTOUR
- 761 EXISTING MINOR CONTOUR
- 760 PROPOSED MAJOR CONTOUR
- 761 PROPOSED MINOR CONTOUR
- PROPOSED EASEMENT LINE
- SETBACK LINE
- U-FOC PROPOSED FIBER
- X X FENCE LINE
- EXISTING TREE LINE
- TEMPORARY CONSTRUCTION EASEMENT
- GRAVEL
- CONCRETE

SITE NOTES

1. DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT, CONCRETE & GRAVEL PAD UNLESS SHOWN OTHERWISE.
2. ALL NEW PAVEMENT ABUTTING EXISTING PAVEMENTS SHALL MATCH THE ELEVATION OF THE EXISTING.
3. SEE GENERAL NOTES, SHEET #.
4. SITE DETAILS, SEE SHEET 11 - 12.
5. PROPOSED PURCHASE EXHIBIT, SEE SHEET 8.

SITE DATA:

SITE ADDRESS:	ROUTE 30 SUGAR GROVE, IL 60554
PIN/MAP #:	14-19-200-019
LEGAL DESCRIPTION:	THAT PART OF THE NORTHEAST QUARTER OF SECTION 19 AND PART OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 38 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN
ZONING:	M-1 (LIGHT MANUFACTURING)
LAND USE:	VACANT LAND
PROPERTY ACREAGE:	49.87 AC / 2,172,404 SF
PROPOSED EASEMENT AREA:	1.009 AC / 43,952 SF
PROPOSED DISTURBED AREA:	0.693 AC / 30,179SF
EXISTING IMPERVIOUS	0.006 AC / 271 SF
PROPOSED IMPERVIOUS	0.214 AC / 9,321 SF
NET INCREASE IMPERVIOUS	0.208 AC / 9,050 SF
GRAVEL (FREE DRAINING	0.141 AC / 18,358 SF
PROPOSED EASEMENT LAND USE:	PUBLIC UTILITY
SETBACKS:	FRONT: 50' SIDE: 30' REAR: 30'

0 20' 40'
GRAPHIC SCALE: 1" = 20'

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

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www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

SITE PLAN - FUTURE BUILD

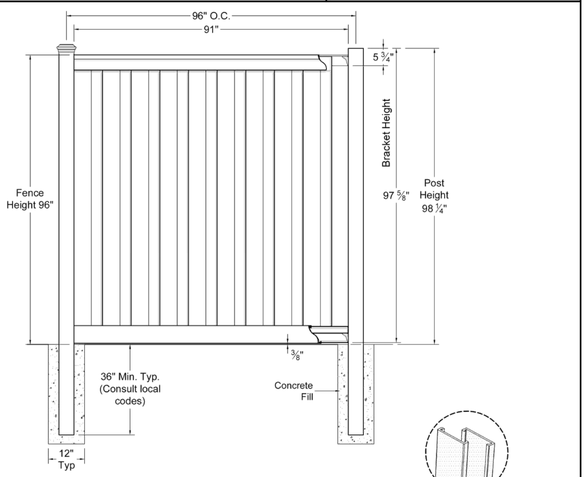
SHEET NUMBER

10

Project Management Initials: Designer: FCS Checked: ____ Approved: ____ ANSI D 22" x 34"
Last saved by: STONEF (2026-01-08) Last Plotted: 2026-01-08
Filename: C:\USERS\STONEF\ONEDRIVE - AECOM\INDIGO - CITY METRO'S - DOCUMENTS\GENERAL\900_CAD\ORD-LH\ORD-LH1.5\04-CAD\03-SHEETS\ARTEMIS-H-SHT-C-SITE.DWG

Trex® Seclusions®
COMPOSITE FENCE SYSTEMS

Fence Height: 8'



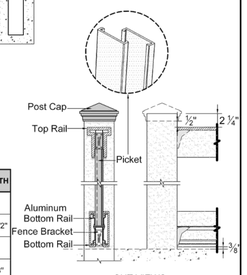
NOTES:

1. INSTALLATION TO BE COMPLETED PER MANUFACTURER'S SPECIFICATION.
2. REFER TO TrexFencingFDS.com FOR CONSTRUCTION DETAILS AND PRODUCT INFORMATION
3. DRAWING NOT TO SCALE.

COMPONENT		QTY.	LENGTH
Post Cap	Pyramid, Flat, Crown	1	N/A
Post	5" x 5"	1	144"
Top Rail	4" x 5"	1	91"
Bottom Rail / Picket	1" x 5 3/4"	19	91"

Component lengths may vary

COMPONENT		QTY.	LENGTH
Bottom Rail / Picket	1" x 5 3/4"	2	91"
Aluminum Bottom Rail	2 3/4" x 1 5/8"	1	90 1/2"
Fence Bracket	1 1/4" x 3 1/8"	4	N/A
Ext. Wood Screw	#7	24	1 5/8"



CUT VIEWS

Trex Fencing
COMPOSITE FENCE SYSTEMS

FDS
FENCE DISTRIBUTORS

543 E. 600 S. Provo, UT 84606
1-877-700-8739 - TrexFencingFDS.com

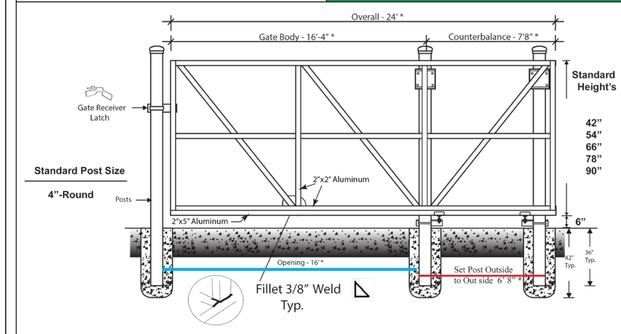
NOTE:

1. FENCE POSTS SHALL HAVE A 3 ½" X 3 ½" X 3/16" A36 STEEL TUBE INSERT INSTALLED.
2. THE STEEL TUBULAR INSERT SHALL EXTEND INSIDE THE TREX FENCE POST A MIN. OF 36" ABOVE FINISHED GRADE.
3. FENCE POSTS SHALL BE INSTALLED AT 8' O.C.
4. TREX FENCING SHALL BE DESIGNED FOR MIN. 130 MPH ULTIMATE DESIGN WIND SPEED (VULT)
5. SEE TREX STANDARD FENCE COLOR PALLET THIS SHEET FOR COLOR SELECTION.

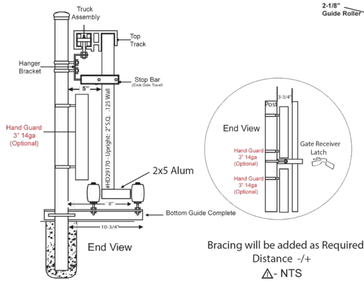
1 / 11 TREX FENCE DETAIL
NOT TO SCALE

Trex Seclusions®
COMPOSITE FENCING SYSTEM

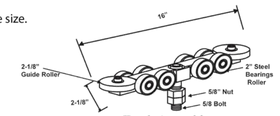
16' Cantilever Gate Frame



* Measurements vary with desired gate size.



Bracing will be added as Required
Distance -/+
⚠- NTS



Truck Assembly
With sealed roller bearings

Default Specifications

Uprights: 2" S.Q. .125 Wall
Diagonals: 2" S.Q. .125 Wall
Top Track: 6" x 3-1/4"
All Material 6061-T6 Extruded

Trex® Fencing
COMPOSITE FENCE SYSTEMS

FDS
FENCE DISTRIBUTORS

YourNextFence.com
877-700-8739
Sales@YourNextFence.com

2 / 11 TREX GATE DETAIL
NOT TO SCALE

NOTE:

1. TREX STANDARD FENCE COLOR PALLET. COLOR SELECTION TO BE APPROVED BY THE PLANNING COMMISSION.
2. RECOMMEND EITHER COLOR SADDLE OR WINCHESTER GREY FOR FENCE AND GATE COLOR.
3. FENCE AND GATE TO BE THE SAME COLOR.

3 / 11 TREX FENCE STANDARD COLOR PALETTE
NOT TO SCALE

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING
ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
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PROJECT NUMBER

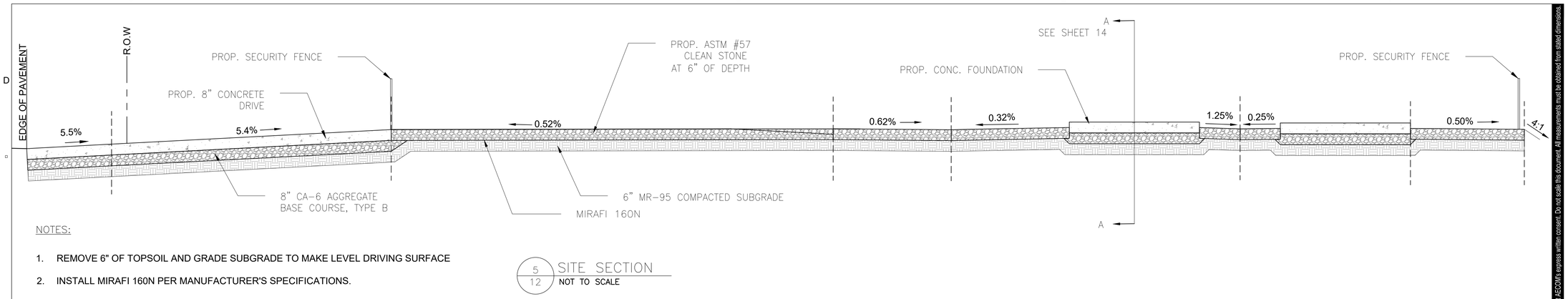
60645418

SHEET TITLE

SITE DETAILS-1

SHEET NUMBER

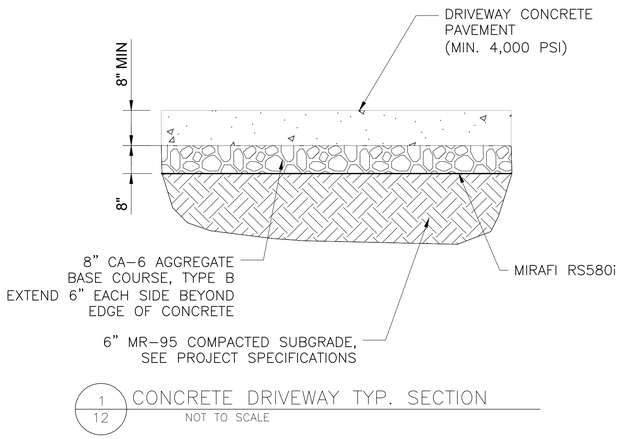
11



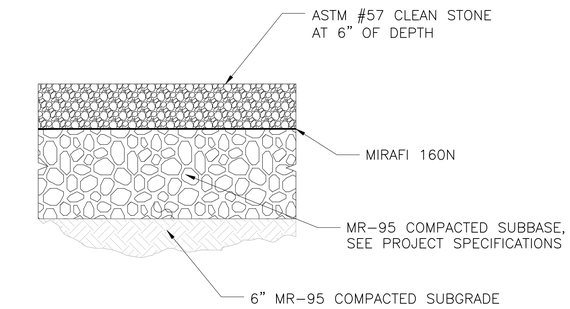
NOTES:

1. REMOVE 6" OF TOPSOIL AND GRADE SUBGRADE TO MAKE LEVEL DRIVING SURFACE
2. INSTALL MIRAFI 160N PER MANUFACTURER'S SPECIFICATIONS.

5/12 SITE SECTION
NOT TO SCALE



1/12 CONCRETE DRIVEWAY TYP. SECTION
NOT TO SCALE



2/12 SITE TYP. SECTION
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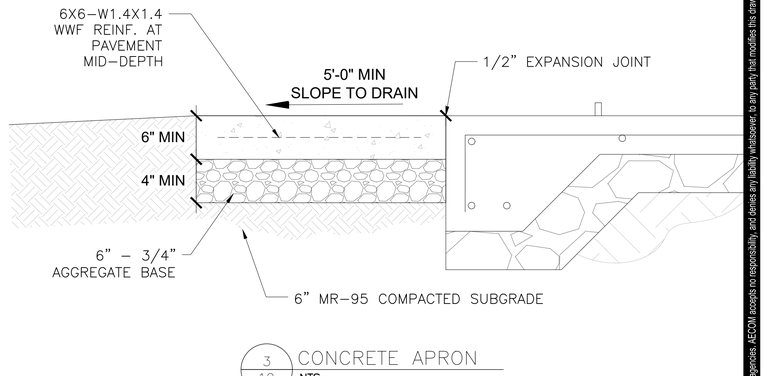
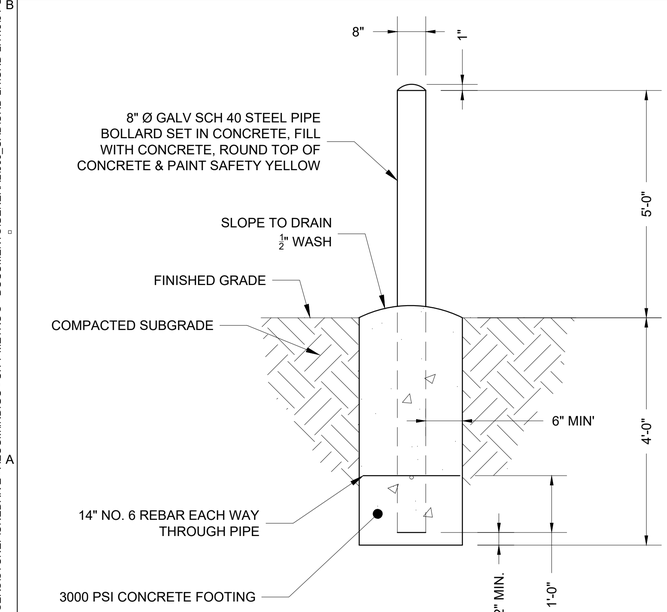
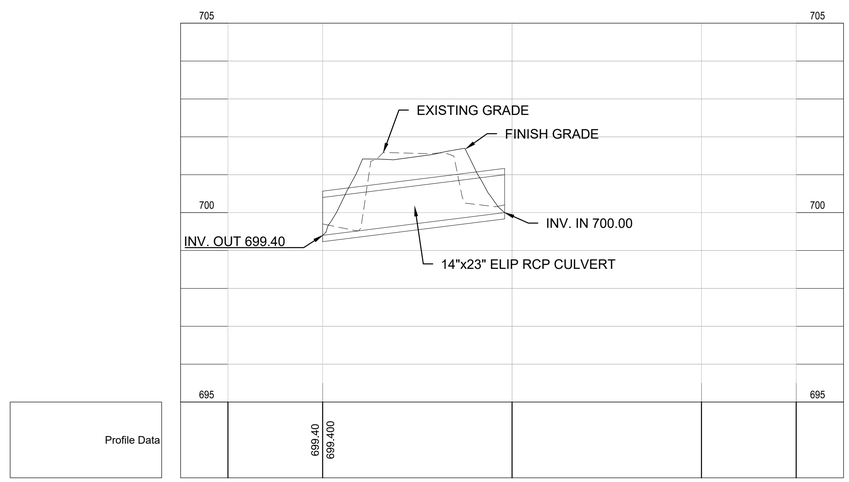


3/12 CONCRETE APRON
NTS



NOTE:
BOLLARD PER VILLAGE OF SUGAR GROVE STANDARD DETAIL DRAWING 05

4/12 BOLLARD
NTS



CULVERT
SCALE: HORIZ. 1"=20'
VERT. 1"=2'

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT
MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
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1-864-234-3069 tel
www.aecom.com

REGISTRATION

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SHEET TITLE
SITE DETAILS-2

SHEET NUMBER
12

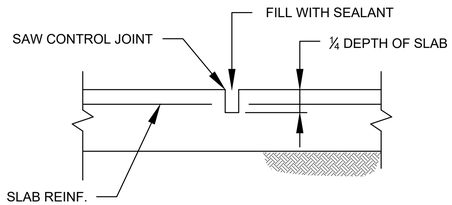
Last saved by: STONEF (2026-01-08) Last Plotted: 2026-01-08
Filename: C:\USERS\STONEF\ONEDRIVE - AECOM\INDIGO - CITY METRO'S - DOCUMENTS\GENERAL\900_CAD\ORD-LH\ORD-LH1.5\04-CAD\03-SHEETS\ARTEMIS-H-SHT-C-SITE-DETAILS-3.DWG
Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"

DESIGN CRITERIA:

1. LOADS USED IN THE DESIGN OF THE FOUNDATION SLAB ARE AS FOLLOWS:
2. UNIFORM LIVE LOADS FOR SLAB ON GRADE - 150 PSF
3. SNOW LOAD, WIND LOADS, AND SEISMIC LOADS FOR PREFABRICATED BUILDING DESIGN SHALL BE PROVIDED BY PRE-FABRICATED BUILDING MANUFACTURER AS SITE CLASS, DESIGN CATERGORY, ETC. ARE BASED ON SPECIFIC SITE LOCATION.

FOUNDATION NOTES:

1. THE ENTIRE STRUCTURE SHALL BE FOUNDED ON COMPACTED STRUCTURAL FILL OR UNDISTURBED SOIL WITH A DESIGN BEARING PRESSURE OF 1,500 PSF.
2. PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN BEARING PRESSURE AND THAT SETTLEMENTS ARE WITHIN GENERALLY ACCEPTED TOLERABLE LIMITS. THE GEOTECHNICAL ENGINEER WILL PROVIDE DIRECTION FOR CORRECTIVE ACTION WHERE NEEDED.
3. DO NOT INSTALL FOUNDATION WORK UNTIL IT HAS BEEN COORDINATED WITH ADJACENT UNDERGROUND UTILITIES, ETC.
4. NO FOUNDATION CONCRETE SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.



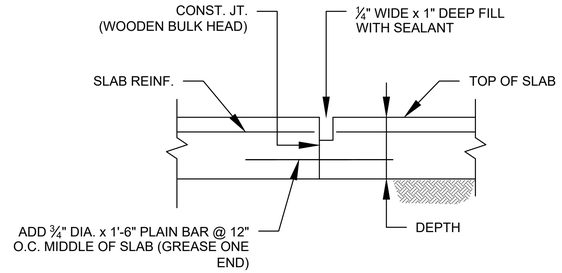
SLAB (ELEVATION) SAW JOINT

CAST-IN-PLACE CONCRETE:

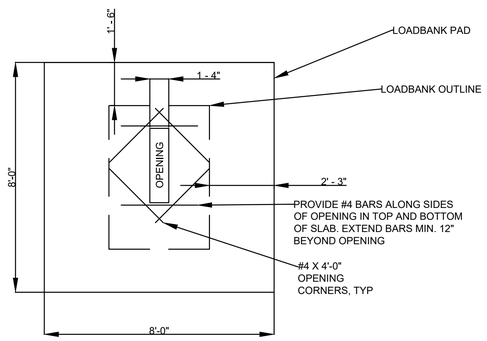
1. CAST-IN-PLACE CONCRETE SHALL COMPLY WITH THE AMERICAN CONCRETE INSTITUTE STANDARD (ACI 318), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, LATEST EDITION, AND THE SPECIFICATIONS FOR STRUCTURE CONCRETE FOR BUILDINGS (ACI 301), LATEST EDITION.
2. ALL CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT AGGREGATE CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:
   A) SLAB ON GRADE - 3,000 PSI
   B) CONCRETE OTHERWISE NOTED - 4,000 PSI
   C) CONCRETE EXPOSED TO WEATHER SHALL BE ENTRAINED.
3. ALL REINFORCING STEEL SHALL BE AS FOLLOWS:
   A) REINFORCING BARS - ASTM A615, GRADE 60
   B) WELDED WIRE FABRIC - SMOOTH WIRE; ASTM A185 FLAT SHEET TYPE
4. WELDED WIRE FABRIC SHALL BE PROPERLY SUPPORTED PRIOR TO PLACING CONCRETE. HOOKING OF FABRIC IS NOT PERMITED.
5. #4 BARS MARKED AS CONTINUOUS (CONT.) SHALL BE LAPPED 50 x BAR DIAMETER.
6. HOLD ALL REINFORCING STEEL SECURELY IN PLACE TO PREVENT DISLOCATIONS DURING THE POURING OPERATION, SUPPORT SLAB REINFORCING STEEL ON HIGH CHAIRS AND BAR SPACERS OF SUITABLE DESIGN, OR CONCRETE BLOCKS HAVING THE SAME MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SLAB.
7. DETAILING OF ALL CONCRETE REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-315).
8. MINIMUM PROTECTION (CONCRETE COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
   A) CONCRETE SURFACES CAST AGAINST SOIL: 3"
   B) CONCRETE SURFACES EXPOSED TO EARTH OR WEATHER: 1 1/2"
9. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
10. DIMENSIONS AND HEIGHTS OF CONCRETE SLABS TO BE COORDINATED BY CONTRACTOR AND VERIFIED WITH PRE-FABRICATED BUILDING MANUFACTURER REQUIREMENTS.

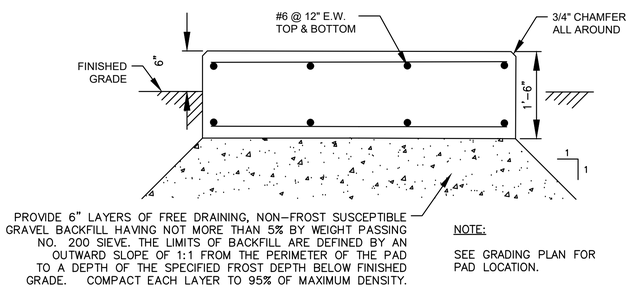
CONTROL AND CONSTRUCTION JOINTS

1. SAWCUT JOINTS AT CONTROL JOINTS SHALL BE MADE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OUT OF THE AGGREGATE AND DAMAGE TO THE EDGES, BUT NO LATER THAN 12 HOURS AFTER THE FINISHING OF THE SLAB SURFACE HAS BEEN COMPLETED.
2. SAWCUT JOINTS SHALL BE MADE AT ALL CONSTRUCTION JOINTS. JOINTS MAY BE SAWCUT WHEN CONTROL JOINTS ARE SAWCUT OR AT ANY TIME PRIOR TO THE TIME THAT SEALANTS ARE TO BE INSTALLED IN THE CONSTRUCTION JOINT.
3. IMMEDIATELY AFTER SAWCUTTING, CLEAN THE JOINT AND SLAB SURFACE WITH A HIGH PRESSURE WATER BLASTER (1000 PSI MIN.). WATER BLASTING SHALL REMOVE ALL LAITANCE AND OTHER CONTAMINENTS FROM THE JOINT AND SLAB SURFACE.
4. SEALANT FOR JOINTS SHALL BE 2-PART SELF LEVELING SEMI-RIGID EPOXY TYPE. SEALANT SHALL BE LEVEL WITHIN 1/32" BELOW SURFACE. REMOVE ANY EXCESS SEALANT THAT IS ABOVE THE FINISH FLOOR SURFACE ON EITHER SIDE OF THE JOINT. MAINTAIN A UNIFORM THICKNESS THE FULL LENGTH OF ALL JOINTS.



SLAB (ELEVATION) CONSTRUCTION JOINT





LOADBANK PAD SECTION

ISSUE FOR BID PLANS
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AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

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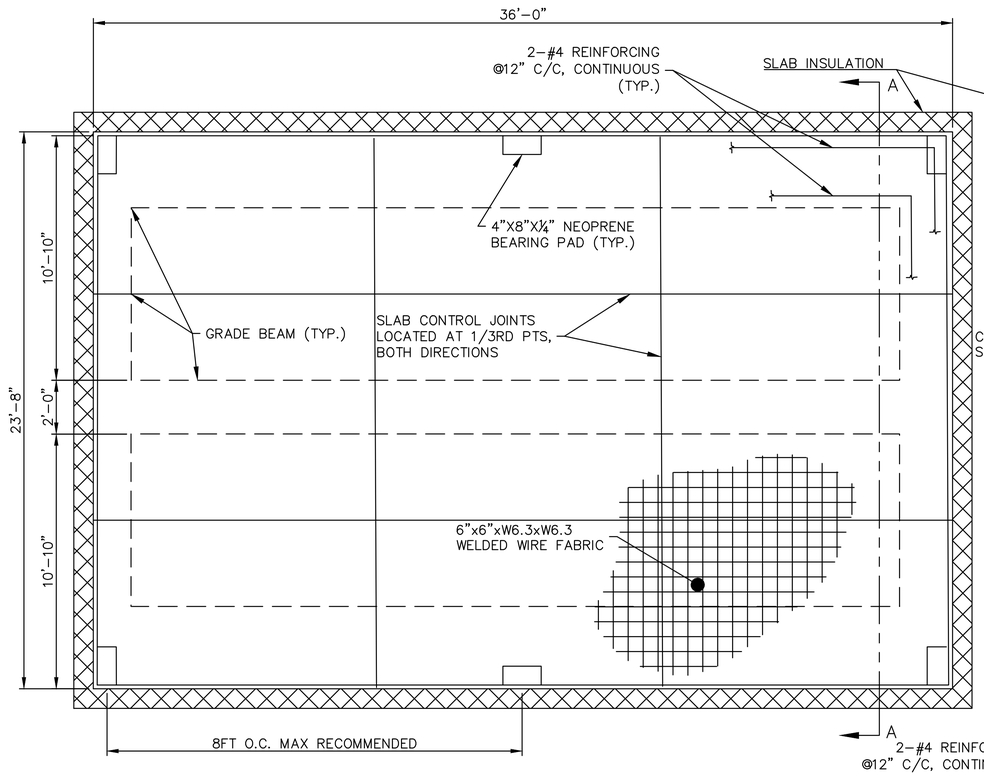
SHEET TITLE

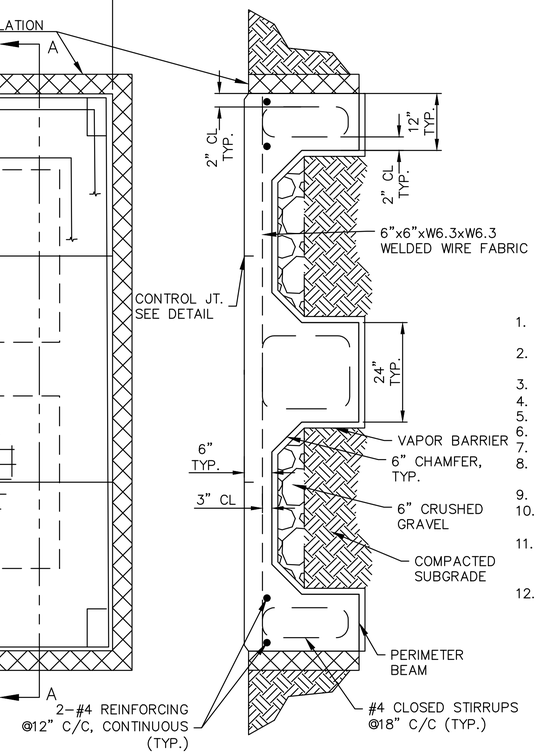
STRUCTURAL DETAILS-1

SHEET NUMBER

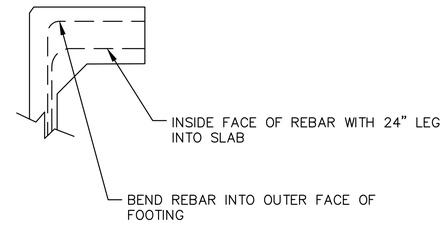
13



SLAB FOUNDATION



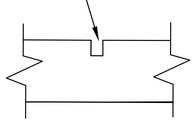
SECTION A–A



NO STIRRUP OPTION
SCALE: N.T.S

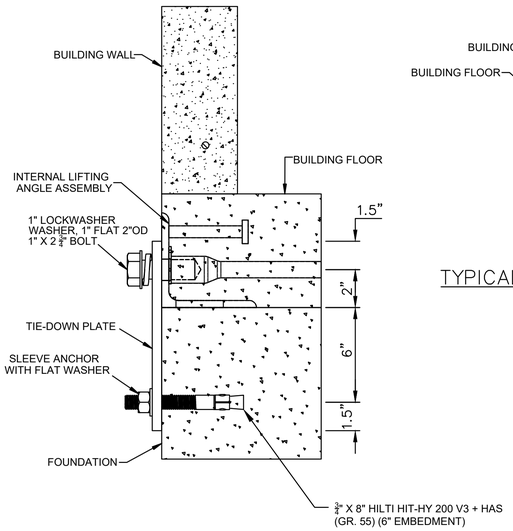
NOTES:

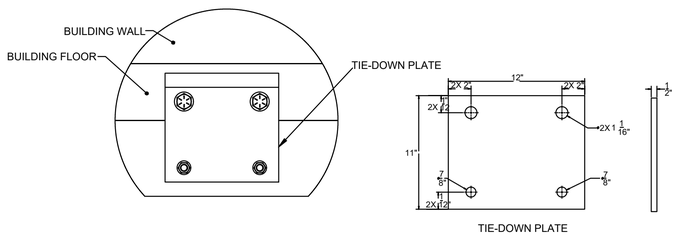
1. WELDED WIRE FABRIC OR OPTIONAL REINFORCING BAR MAY BE USED AS AVAILABLE. SEE CHART FOR SIZE, GRADE, AND SPACING OF REBAR.
2. BOTTOM OF FOOTING TO BE 24" MIN. OR 6" BELOW LOCAL FROST LINE, OR TO 2000 PSF SOIL BEARING CAPACITY, WHICHEVER IS GREATER.
3. USE OF THIS DESIGN REQUIRES VERIFICATION OF SOIL BEARING CAPACITY.
4. SLAB TOLERANCE IS ±¼"
5. SLOPE GRADE AWAY FROM FOUNDATION.
6. WWF IS 60 KSI MINIMUM.
7. OVERLAP SPLICES ARE ALLOWED FOR REINFORCING BAR, USE 21" MINIMUM LAP.
8. ALL REQUIRED TIE DOWN PLATES, SHIMS, BOLTS, AND ANCHORS SHALL BE PLACED INSIDE SHELTER PRIOR TO SHIPMENT FROM MANUFACTURER.
9. CONCRETE STRENGTH: Fc'= 3000 PSI @ 28 DAYS.
10. USE SHIMS AS REQUIRED TO ASSURE SHELTER IS BEARING AT PERIMETER. SEAL PERIMETER W/CAULK OR GROUT AS DESIRED.
11. REBAR TO BE GROUNDED W/SOLID COPPER WIRE, #4 MIN. ONE LOCATION MIN, DEFAULT TO BE AT ELECTRICAL SERVICE ENTRY LOCATION. QTY, SIZE, & LOCATION(S) MAY VAY AS SPECIFIED BY CUSTOMER. PIGTAIL(S) TO BE MADE ACCESSIBLE FOR BONDING TO SERVICE GROUND.
12. SLAB INSULATION ONLY TO BE INSTALLED BY SIT CONTRACTOR AS REQUIRED, EXTENDING FROM TOP OF SLAB TO BOTTOM OF FOOTING. INSULATING VALUE, ATTACHMENT METHOD, AND COVERING OBTAINED FROM LOCALITY'S ENERGY CODE.



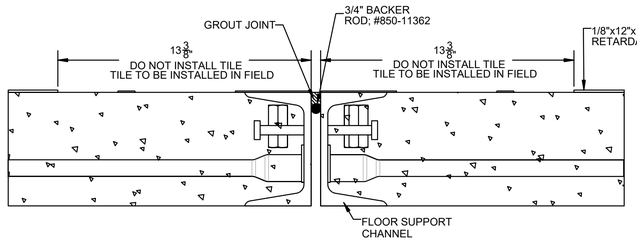
CONTROL JOINT

OPTIONAL REINFORCING BAR		
SIZE	GRADE	LAT/LONG SPACING
#3	60	10" C/C
#4	60	18" C/C
#5	60	18" C/C





TYPICAL FLOOR TO FOUNDATION TIE–DOWN PLATE CONNECTION



FLOOR CLOSE–UP DETAIL@MODULE LINE

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ORD-LH1.5

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STRUCTURAL DETAILS-2

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14

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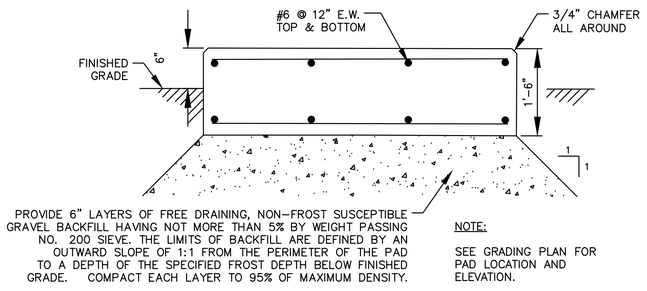
Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"

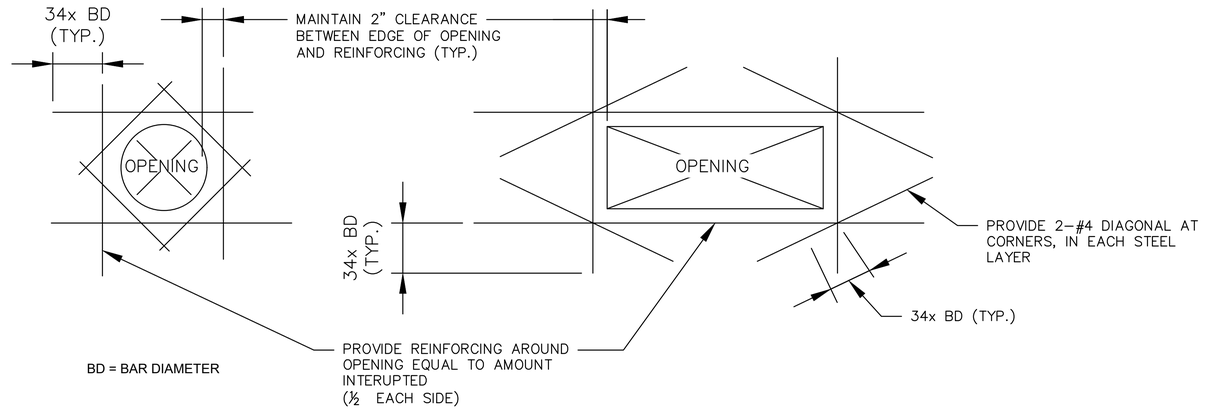


PROVIDE 6" LAYERS OF FREE DRAINING, NON-FROST SUSCEPTIBLE GRAVEL BACKFILL HAVING NOT MORE THAN 5% BY WEIGHT PASSING NO. 200 SIEVE. THE LIMITS OF BACKFILL ARE DEFINED BY AN OUTWARD SLOPE OF 1:1 FROM THE PERIMETER OF THE PAD TO A DEPTH OF THE SPECIFIED FROST DEPTH BELOW FINISHED GRADE. COMPACT EACH LAYER TO 95% OF MAXIMUM DENSITY.

NOTE:

SEE GRADING PLAN FOR PAD LOCATION AND ELEVATION.

GENERATOR PAD SECTION

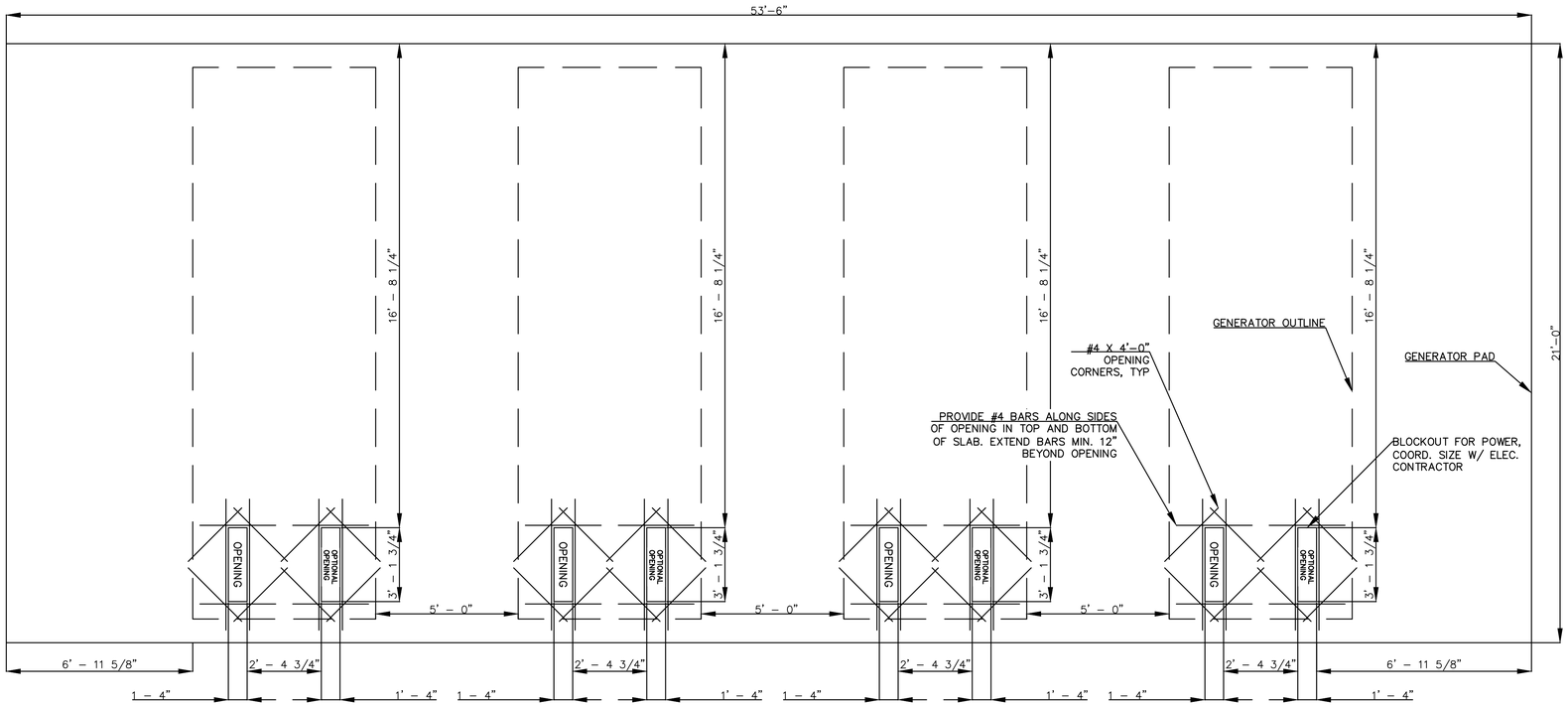


BD = BAR DIAMETER

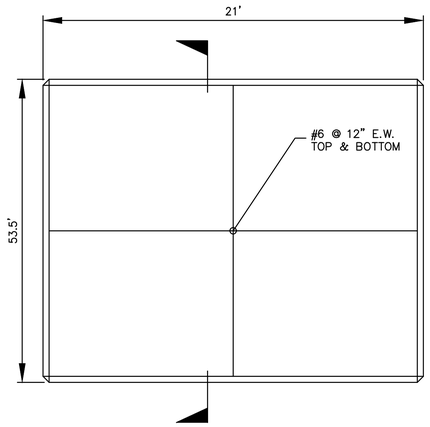
NOTE:

ALL OPENINGS IN SLAB REQUIRE ADDITIONAL REINFORCING EXCEPT WHERE OPENING SIZE OR LOCATION IS SUCH THAT REINFORCING STEEL IS NOT INTERRUPTED. CONDUITS, SMALL PIPES AND OTHER SMALL SLEEVES THAT DO NOT REQUIRE PRECISE LCOATION SHALL BE SHIFTED SLIGHTLY TO CLEAR REINFORCING, WHERE OPENINGS ARE LARGER THAN THE SPACING BETWEEN THE BARS AND ARE SUCH THAT THE REINFORCING CANNOT BE SHIFTED TO CLEAR, THEN THIS DETAIL SHALL APPLY.

TYPICAL CONCRETE SLAB OPENING DETAIL



GENERATOR PAD LAYOUT PLAN



GENERATOR PAD PLAN

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Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"

GENERAL NOTES

1. UNLESS OTHERWISE INDICATED, ALL MOUNTING ELEVATIONS ARE CENTERLINE ELEVATIONS.
2. CIRCUITING SHOWN ON THE PLANS IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT TIME OF DESIGN AND A GENERAL FIELD SURVEY. CONTRACTOR SHALL FIELD VERIFY ACTUAL AVAILABLE CIRCUITS, PRIOR TO START OF CONSTRUCTION, AND ADJUST ACCORDINGLY.
3. CIRCUIT IDENTIFICATION SHALL BE AS FOLLOWS:
   A-5 = 1-POLE BREAKERS AT CIRCUIT #5 OF PANEL "A".
   P-1,3 = (1) 2-POLE BREAKER AT CIRCUITS #1 & #3 OF PANEL "P".
4. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING EQUIPMENT FOR MFR, TYPE AND AIC RATING.
5. NO WIRING DEVICES OR OUTLET BOXES SHALL BE INSTALLED BACK-TO-BACK.
6. CONTRACTOR SHALL FURNISH, INSTALL, AND SIZE ALL SLEEVES, HOLES, CORES, PATCHING, SLOTS, ANCHORS, BRACKETS, SUPPORTS, JUNCTION BOXES, PULLBOXES, AND OTHER APPURTENANCES NECESSARY TO EXECUTE THE CONTRACT DOCUMENTS COMPLETE. SOME OF THESE ITEMS MAY BE SHOWN ON THE DRAWINGS FOR CLARITY OR DESIGN PREFERENCE. HOWEVER, NOT ALL OF THE ITEMS, NECESSARY FOR COMPLETE EXECUTION AND INSTALLATION, ARE SHOWN.
7. LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBER.
8. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL, OR AT RIGHT ANGLES, TO STRUCTURE.
9. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT BEING INSTALLED PRIOR TO INSTALLATION TO ASSURE THAT THE FEEDER, DISCONNECT, OVERCURRENT PROTECTION, ETC. MATCHES THE ACTUAL NAMEPLATE DATA AS SUPPLIED BY THE MFR. REFER TO EQUIPMENT CUTSHEETS AND MFRS DATA FOR ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTER-CONNECTIONS OF ALL EQUIPMENT AND PROVIDE / INSTALL AS REQUIRED.
10. WORK CALLED FOR BY THE SPECIFICATIONS OR THESE DRAWINGS IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT REQUIREMENTS OF THE TWO SHALL APPLY UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ENGINEER.
11. FURNISH CABLING AND RACEWAYS FOR SYSTEM DEVICES AND INSTRUMENTATION ACCORDING TO OTHER TRADES AND VENDORS DRAWINGS AND SPECIFICATIONS.
12. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL DEVICE TYPES, LOCATIONS AND QUANTITIES WITH THE OWNER AND SYSTEM'S VENDOR AND PROVIDE ACCORDINGLY.
13. ALL WORK SHALL BE PERFORMED ON DE-ENERGIZED EQUIPMENT. ANY WORK ON LIVE EQUIPMENT SHALL BE REQUESTED 72 HOURS PRIOR TO START WITH LIVE WORK PERMIT.
14. UPON COMPLETION OF WORK, CORRECT ALL PANELBOARD CIRCUIT DIRECTORY CARDS TO REFLECT AS-BUILT CONDITIONS. CONTRACTOR SHALL PROPERLY COVER ALL UNUSED SPACES.

GENERAL WIRING NOTES

1. CIRCUIT HOMERUNS NOT OTHERWISE MARKED ON DRAWINGS SHALL BE CONSIDERED 2 #12, 1 #12G -3/4" C, MIN.
2. WIRE SIZING FOR ALL BRANCH CIRCUITS SHALL BE IN ACCORDANCE WITH NEC TABLE 310-15(B)(16), WITH SUITABLE TERMINAL RATINGS AS REQUIRED BY ARTICLE 110.14, AS A MINIMUM.
3. WHERE CIRCUITS ARE IN EXCESS OF 50 FEET (120V), OR 150 FEET (277V); THE WIRE SIZE SHALL BE INCREASED TO ACCOMMODATE FOR VOLTAGE DROP. THE CONTRACTOR SHALL ENSURE NEW CIRCUIT WIRES ARE SIZED TO LIMIT VOLTAGE DROP TO 2% ON FEEDERS AND 3% ON BRANCH CIRCUITS.
4. WHERE THE WIRE SIZE IS INCREASED DUE TO CIRCUIT LENGTH AS SHOWN ABOVE, THAT WIRE SIZE SHALL BE CARRIED THROUGHOUT THE CIRCUIT, AS A MINIMUM. GROUND WIRE SHALL BE SIZED ACCORDINGLY FOR THE NEW WIRE SIZE.
5. ALL CIRCUITS SHALL HAVE A DEDICATED NEUTRAL AND EQUIPMENT GROUND CONDUCTORS, AS REQUIRED, IN EACH AND EVERY CONDUIT OR RACEWAY; METALLIC OR NON-METALLIC, RIGID OR FLEXIBLE.
6. EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED PER NEC TABLE 250-122 AND AS REQUIRED TO ACCOMMODATE VOLTAGE DROP, OR AS SHOWN ON DRAWINGS WHICHEVER IS MORE STRINGENT.
7. WIRE SIZING SHALL BE AS INDICATED IN NOTES ABOVE, ONE-LINE DIAGRAMS OR AS SHOWN ON THE DRAWINGS, WHICHEVER IS MORE STRINGENT. THAT SAME WIRE SIZE SHALL BE CARRIED THROUGHOUT THE CIRCUIT, AS A MINIMUM.

GENERAL EMERGENCY ACCESS BOX NOTES

1. CONTRACTOR SHALL VERIFY EMERGENCY ACCESS BOX (EAB) LOCATION AND FUNCTIONS WITH FIRE MARSHAL AND LOCAL UTILITY PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
2. CONTRACTOR SHALL COORDINATE THE EAB AS SPECIFIED IN THESE DRAWINGS WITH THE FIRE MARSHAL AND UTILITY CO. AND PROVIDE EAB AND ALL ACCESSORIES AS REQUIRED BY THE FIRE MARSHAL AND UTILITY CO. FOR AN APPROVED ACCESS SYSTEM.
3. SUBMIT EQUIPMENT SHOP DRAWINGS TO THE FIRE MARSHAL, UTILITY CO., AND ENGINEER FOR APPROVAL PRIOR TO ROUGH-IN.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH THE FOLLOWING INFORMATION AS A MINIMUM:
   a. ALL SUBMITTALS SHALL INDICATE COMPLIANCE WITH LATEST ADOPTED EDITIONS OF:
      - INTERNATIONAL FIRE CODE
      - NFPA - 72
      - NFPA - 13
      - NFPA - 101
      - NFPA - 70 (NATIONAL ELECTRICAL CODE)
      - ADA - AMERICANS WITH DISABILITIES ACT
      - ALL STATE AND LOCAL CODES AND ORDINANCES.
5. COORDINATE WITH THE SYSTEM VENDOR FOR ADDITIONAL REQUIREMENTS AND PROVIDE ALL LINE VOLTAGE NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
6. THE ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOXES, CONDUITS, AND CONDUCTORS AS REQUIRED FOR A COMPLETE GATE EMERGENCY ACCESS SYSTEM.

GENERAL UTILITY CO. COORDINATION NOTES

1. THE CONTRACTOR SHALL MEET ON-SITE WITH THE UTILITY CO. REPRESENTATIVE TO DETERMINE THE FOLLOWING; PRIOR TO BID AND ROUGH-IN:
   a. VERIFY PRIMARY CONDUIT WORK REQUIRED AND RESPONSIBILITY; IF ANY.
   b. VERIFY THE EXACT LOCATION OF THE UNDERGROUND OR OVERHEAD TRANSFORMERS.
   c. VERIFY METERING METHOD AND REQUIREMENTS, IF DIFFERENT FROM SHOWN.
   d. VERIFY REQUIRED SERVICE CONDUITS, ROUTING, AND TERMINATION LOCATION.
2. THE CONTRACTOR SHALL NOTIFY THE UTILITY CO. CONTACT LISTED BELOW OF THE PRE-CONSTRUCTION MEETING SCHEDULE.

   COMED
   BUSINESS SUPPORT LINE
   (877) 426-6331
   www.comed.com
3. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE THE RESPONSIBILITY FOR, AND PAYMENT OF, ALL UTILITY PERMITTING FEES.
4. THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE COORDINATION PROCEDURES WILL CONSTITUTE ABSORBING ALL COSTS ASSOCIATED WITH REPLACING ANY AND ALL WORK ALREADY IN PLACE TO MEET THE UTILITY CO.'S RULES AND REQUIREMENTS.

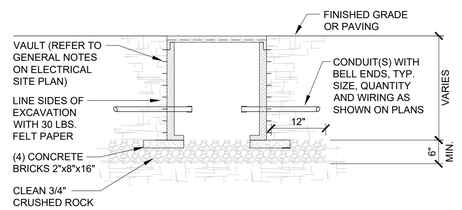
ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS USED ON PLANS)

	PANELBOARD, 120/240V, 1-PH. SURFACE MOUNTED
A-5	CONDUIT HOME RUN, TEXT INDICATES DESTINATION; PANELBOARD "A", CIRCUIT #5. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.
	CONDUIT(S). CONCEALED IN WALLS OR ABOVE CEILINGS, EXPOSED ON WALLS OR CEILINGS, OR CONCEALED BELOW GRADE OR FLOORS; RESPECTIVELY. WITH APPROPRIATE CONDUCTOR QUANTITIES. SEE GENERAL NOTES.
E	OVERHEAD LINE, LETTER DENOTES TYPE: E = ELECTRIC T = TELECOMMUNICATIONS G = GROUNDING CONDUCTOR OE = UTILITY O/H ELECTRIC
E	UNDERGROUND DUCTBANK, COMPACTED BACKFILL, LETTER DENOTES TYPE: E = ELECTRIC T = TELECOMMUNICATIONS G = GROUNDING CONDUCTOR UE = UTILITY U/G ELECTRIC LOC = LOCATOR TRACER WIRE
J J	JUNCTION BOX, SQUARE OR ROUND
P	UNDERGROUND PULLBOX, MINIMUM SIZING AS FOLLOWS, UON: POWER: 36" Lx36"Wx42"H CONTROLS: 24"Lx24"Wx42"H

CEV
SEV
KEV
	ENTRY VAULT.
	HDPE STRUCTURAL FOAM, WITH OPEN FLOOR AND COMPOSITE SPLIT COVER. TYPE AND SIZE AS FOLLOWS:
	CEV = CUSTOMER (CHANNELL #BULKU366048)
	SEV = SITE (CHANNELL #BULKU366048)
	KEV = KNOCKOUT (CHANNELL #366048)

T	PAD MOUNTED SERVICE TRANSFORMER, REFER TO SITE PLAN FOR ADDITIONAL INFORMATION
	DISCONNECT SWITCH SIZE, FUSES, POLES, AND NEMA ENCLOSURE RATING AS NOTED. NEMA RATINGS ARE, UON: INDOOR-NEMA 1, OUTDOOR-NEMA 3R.
Y Z X Y Z X	DUPLEX OR QUAD RECEPTACLE, 20A, w/COVER PLATE, AT 18" AFF M.H., UON: X = TYPE, Y = NON-STANDARD M.H., Z = CIRCUIT NUMBER
	GROUND ROD 10'-0" LONG x 3/4" DIAMETER, COPPER-CLAD STEEL
	TEST WELL, w/GROUND ROD
	EXOTHERMIC WELD
G G G	GROUNDING ELECTRODE CONDUCTORS, BELOW GRADE/IN-SLAB OR EXPOSED; RESPECTIVELY.
	GROUND BAR SEE POWER ONE-LINE DIAGRAM AND DETAILS FOR MORE INFORMATION.
$ X	WALL SWITCH w/COVERPLATE, STANDARD M.H. 48" AFF: X = SWITCH TYPE, AS FOLLOWS: <blank> = SINGLE-POLE 2 = DOUBLE-POLE (2-WAY) 3 = THREE-POLE (3-WAY) 4 = FOUR-POLE (4-WAY) D = DIMMER K = KEY-OPERATED P = w/PILOT LIGHT T = TIMER SWITCH, DIGITAL WP = WEATHERPROOF XP = EXPLOSION-PROOF
X a	LIGHTING FIXTURE X = FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE.
X	EMERGENCY LIGHT FIXTURE, w/INTEGRAL BATTERY PACK TRIANGLES DENOTES # OF FIXTURE HEADS
X	EXIT SIGN, CEILING OR WALL MOUNTED. QUANTITY OF FACES, AND DIRECTIONAL ARROWS AS INDICATED ON PLANS.
	SITE LUMINAIRE, POLE MOUNTED. NUMBER OF HEADS AS SHOWN ON PLANS. ARROW INDICATES DIRECTION OF OPTICS, IF SHOWN.

VAULT BOX CONDUIT ENTRY DETAIL



ELECTRICAL ABBREVIATIONS (NOT ALL ABBREVIATIONS ARE USED ON PLANS)

1PH, 1Ø	SINGLE-PHASE
1P	POLE (2P,3P,4P, 1P ETC.)
2/C	2 CONDUCTOR (1/C, 3/C, 4/C, ETC.)
2W	2-WIRE (3W, 4W, ETC.)
A	AMMETER, AMPERE
AC	ALTERNATING CURRENT, ARMORED CABLE
A/C	AIR CONDITIONING UNIT
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
A/E	ARCHITECT / ENGINEER
AF	AMPERE FRAME, AMP FUSE
AFC	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMP	AMPERE, AMPACITY
APPROX	APPROXIMATELY
ARCH	ARCHITECT, ARCHITECTURAL
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BFG	BELOW FINISHED GRADE
BKR	BREAKER
BLDG	BUILDING
C/B	CIRCUIT BREAKER
C	CONDUIT
cd	CANDELA
CKT	CIRCUIT
CLG	CEILING
COAX	COAXIAL CABLE
COMM	COMMUNICATION
CONT	CONTINUE, CONTINUATION
CONTR	CONTRACTOR
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CU	COPPER
db	DECIBEL
DC	DIRECT CURRENT
deg C	DEGREES CELSIUS
deg F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIA	DIAMETER
DIAG	DIAGRAM
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
D/S	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
EM	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EX, (EX)	EXISTING
F/A	FIRE ALARM
fc	FOOTCANDLE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
ft	FEET OR FOOT
G/GND	GROUND
GA	GAUGE
GC	GENERAL CONTRACTOR
GEN	GENERATOR, GENERAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
GTB	GROUND TERMINAL BOX
HGT	HEIGHT
HH	HANDHOLE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
H/V	HIGH-VOLTAGE
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HZ	HERTZ
ICCB	INSULATED CASE CIRCUIT BREAKER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
I/O	INPUT / OUTPUT
ISP	INSIDE PLANT
J-BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kV/H	KILOVOLT AMPERE PER HOUR
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWH	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LP	LIGHT POLE
LRA	LOCKED ROTOR AMPS
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND
LTG	LIGHTING
LTNG	LIGHTNING
L/V	LOW-VOLTAGE
MAX	MAXIMUM
MC	METAL-CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MOUNTING HEIGHT
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N, NEUT	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
O/C	ON-CENTER
O/H	OVERHEAD
O/L	OVERLOAD
OSP	OUTSIDE PLANT
O/L	OVERLOAD
P	POLE
PB	PULL BOX, PUSHBUTTON
PF	POWER FACTOR
PH, Ø	PHASE
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RMS	ROOT MEAN SQUARE
SA	SURGE ARRESTER
SCC	SHORT CIRCUIT CAPACITY
SCHD	SCHEDULE
SEC	SECONDARY
SF	SQUARE FOOT (FEET)
SP	SPARE
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SS	STAINLESS STEEL
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
T/C	TIME CLOCK
TL	TWIST LOCK
TR	TAMPER RESISTANT
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
U/G	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT, VOLTAGE
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
W	WATT
w/	WITH
WG	WIRE GUARD
WH	WATER HEATER
w/o	WITHOUT
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER
XP	EXPLOSION-PROOF

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

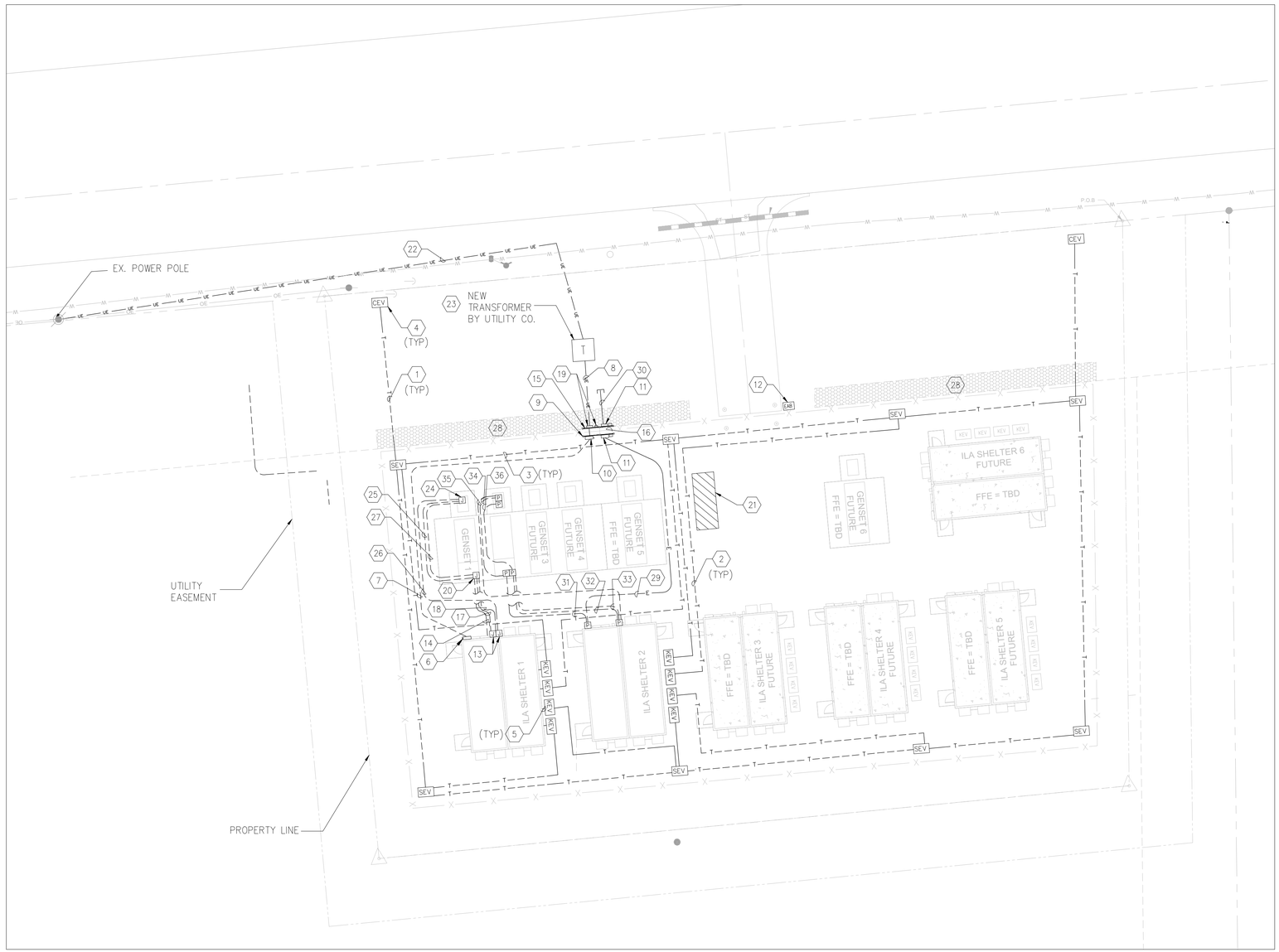
60645418

SHEET TITLE

ELECTRICAL GENERAL NOTES, SYMBOL LEGENDS, AND ABBREVIATIONS

SHEET NUMBER

16



1 ELECTRICAL SITE PLAN
SCALE: 1" = 20'

(H) - NAD 83 (2011)
(V) - NAVD 88
IL GRID EAST

GENERAL NOTES

A. REFER TO ELECTRICAL GENERAL NOTES, SYMBOLS LEGENDS, AND ABBREVIATIONS ON SHEET 16.

B. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET 20.

C. REFER TO ONE-LINE DIAGRAM ON SHEET 21.

D. REFER TO HUT DESIGN PACKAGE FOR OLOW VOLTAGE CABLING FEEDER SCHEDULES AND ADDITIONAL INFORMATION.

E. THE GC SHALL PROVIDE ALL BACKFILL OF ELECTRICAL AND FIBER TRENCHES. ALL BACKFILL SHALL BE FREE OF PEAT, MARL, HIGHLY PLASTIC CLAY, OR OTHER UNSUITABLE MATERIALS SUCH AS TRASH, DEBRIS, BRUSH, OR ICE.

F. ALL UNDERGROUND CONDUITS SHALL HAVE #6 SOLID, HMWPE INSULATION 0.045MIL ORANGE TRACER WIRE INSTALLED EXTERIOR TO THE CONDUIT. THIS TRACER WIRE IS USED FOR CONDUIT LOCATING.

G. THE GC IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL SITE ENTRY VAULTS (SEV) , KNOCK- OUT ENTRY VAULTS (KEV), AND INSTALLING ALL FIBER CONDUIT BETWEEN VAULTS. CHANNELL # BULKU366048 (SEV), CHANNELL # BULKU366048 (KEV); NO EXCEPTIONS.

H. THE CUSTOMER ENTRY VAULTS (CEV) AND FIBER CONDUIT BETWEEN, ALONG WITH CEV CONNECTIONS TO, THE OSP LONG HAUL FIBER CONDUITS SHALL BE BY OTHERS.

I. ALL FIBER VAULTS SHALL BE INSTALLED FLUSH WITH FINISHED GRADE AND 6" DEPTH OF COMPACTED AGGREGATE BASE AT THE BOTTOM OF THE VAULT. REFER TO VAULT BOX CONDUIT ENTRY DETAIL ON SHEET 16 FOR ADDITIONAL INFORMATION.

J. VAULTS LOCATED OUTSIDE THE PERIMETER FENCE SHALL HAVE PENTA-BOLTS FOR LID LOCKING OPTION, VAULTS WITHIN THE PERIMETER FENCE SHALL NOT REQUIRE ANY SECURITY LOCKING OPTIONS.

K. ALL FIBER CONDUITS SHALL BE INSTALLED WITH 1/2" PULLTAPE AND SHALL BE CAPPED AFTER ENTERING EVERY VAULT.

L. THE GC SHALL PROVIDE A MINIMUM OF 4" DEPTH OF BEDDING SAND ABOVE AND BELOW ALL UNDERGROUND FIBER CONDUITS.

KEYNOTES (#)

1. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH (1) THREE-CELL INNERDUCT (MXE86383) AND PULLWIRE AT 24" BELOW GRADE BETWEEN CEV AND SEV, TYPICAL. COORDINATE EXACT LOCATION OF CEV IN FIELD PRIOR TO ROUGH-IN AND INSTALLATION.
2. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUIT WITH (1) THREE-CELL INNERDUCT (MXE86383) AND PULLWIRE AT 24" BELOW GRADE BETWEEN SEV AND KEV, TYPICAL.
3. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH (1) THREE-CELL INNERDUCT (MXE86383) AND PULLWIRE AT 24" BELOW GRADE BETWEEN SEV AND SEV, TYPICAL.
4. CEV AT FIBER LONG HAUL LINES BY OTHERS, REFER TO GENERAL NOTES ON THIS SHEET.
5. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 24" BFG BETWEEN KEV AND PRE-INSTALLED OSP CONDUIT ENCLOSURE MOUNTED ON HUT SHELTER. SUPPORT VERTICAL CONDUIT RUN WITH UNISTRUT SHIPPED WITH HUT SHELTER. REFER TO HUT SHELTER DRAWINGS FOR ADDITIONAL INFORMATION.
6. SERVICE RATED SAFETY DISCONNECT SWITCH, HEAVY-DUTY, 600A, 3P, 600VAC, FUSIBLE, WITH CLASS RK5 FUSES AND CLASS 'R' REJECTION CLIPS, IN NEMA 3R ENCLOSURE. REFER TO SPECIFICATIONS ON SHEET 20 FOR ADDITIONAL INFORMATION.
7. FURNISH AND INSTALL (2) 4" SCHD 80 PVC CONDUIT AT 36" BELOW GRADE FOR ELECTRICAL SERVICE CONDUCTORS TO HUT SHELTER DISCONNECT SWITCH. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 23 FOR CONDUCTOR SIZES.
8. FURNISH AND INSTALL (4) 1" SCHD 80 PVC CONDUITS WITH PULLWIRE AT 36" BFG BETWEEN PAD MOUNTED TRANSFORMER AND CT CABINET. STUB OUT INSIDE UTILITY TRANSFORMER SECONDARY WINDOW, CAP AND MARK FOR FUTURE IDENTIFICATION. COORDINATE EXACT TERMINATION LOCATION AND REQUIREMENTS WITH UTILITY CO. PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
9. FURNISH AND INSTALL 3-POST ELECTRICAL H-FRAME FOR RACK MOUNTED SERVICE DISCONNECT SWITCH. H-FRAME SHALL BE GALVANIZED STEEL POSTS WITH U-CHANNEL SUPPORTS.
10. 600A, 480/277V, 3PH ELECTRIC UTILITY SERVICE DISCONNECT SWITCH WITH CLASS RK5 FUSES AND CLASS 'R' REJECTION CLIPS, IN NEMA 3 R ENCLOSURE. GC IS RESPONSIBLE FOR COORDINATING MOUNTING STRUCTURE REQUIREMENTS WITH THE LOCAL UTILITY AND PROVIDE ACCORDINGLY.
11. ALLOTTED SPACE FOR FUTURE ELECTRIC UTILITY SERVICE METER OR DISCONNECT SWITCH ENCLOSURE OR DISCONNECT SWITCH FOR FUTURE HUT SHELTER.
12. EMERGENCY ACCESS BOX (EAB) WITH GATE KEY FOR EMERGENCY ACCESS OF ENTRY GATE BY THE FIRE DEPARTMENT. GC IS RESPONSIBLE FOR REGISTERING THE EAB, AND COORDINATING ALL REQUIREMENTS FOR EAB, WITH THE FIRE MARSHAL AND PROVIDE ACCORDINGLY. REFER TO GENERAL EMERGENCY ACCESS BOX NOTES ON SHEET 16 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING LOOSE J-BOXES SHIPPED WITH HUT SHELTER FOR CONDUIT TERMINATIONS. (1)- 6X6X4 J-BOX FOR POWER, AND (1)- 10X10X6 J-BOX FOR LOW-VOLTAGE CONDUITS. COORDINATE EXACT MH FOR SURFACE MOUNTED J-BOXES PRIOR TO ROUGH-IN. TERMINATE CONDUITS ONTO RESPECTIVE J-BOXES. CONDUIT SHALL BE INSTALLED WITH WEATHER PROOF FITTINGS. WALL PENETRATIONS SHALL BE SEALED WITH DUCT SEAL. SPRAY FOAM IS NOT PERMITTED FOR CONDUIT SEALING.
14. FURNISH AND INSTALL (2) 4" SCHD 80 PVC CONDUIT AT 36" BELOW GRADE FOR ELECTRICAL SERVICE CONDUCTORS TO HUT SHELTER GENERATOR DOCKING STATION. REFER TO ONE-LINE DIAGRAM ON SHEET 23 FOR CONDUCTOR SIZES.
15. FURNISH AND INSTALL 3-POST ELECTRICAL H-FRAME FOR RACK MOUNTED ELECTRIC UTILITY METER/CT CABINET. H-FRAME SHALL BE GALVANIZED STEEL POSTS WITH U-CHANNEL SUPPORTS.
16. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUIT WITH PULLWIRE AT 36" BELOW GRADE BETWEEN CT CABINET AND SERVICE DISCONNECT. COORDINATE WITH UTILITY CO. FOR TERMINATIONS.
17. FURNISH AND INSTALL (1) 1" SCHD 80 PVC CONDUIT AT 36" BFG FOR GENERATOR AUX LOAD CONDUCTORS TO HUT 120V PANELBOARD. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 19 FOR CONDUCTOR SIZES.
18. FURNISH AND INSTALL (6) 1" SCHD 80 PVC CONDUIT AT 36" BELOW GRADE FOR ELECTRICAL CONDUCTORS FROM HUT SHELTER TERMINAL BLOCK TB-05.
19. 600A, 480/277V, 3PH ELECTRIC UTILITY METER AND CT CABINET. PROVIDE METER ENCLOSURE, CT CABINET, AND MOUNTING STRUCTURE IN ACCORDANCE WITH LOCAL UTILITY REQUIREMENTS. ELECTRIC METER FURNISHED AND INSTALLED BY THE LOCAL UTILITY. FURNISH AND INSTALL (1) 1" RGS CONDUIT WITH PULLWIRE AT 48" AFG BETWEEN UTILITY METER AND CT CABINET. COORDINATE WITH UTILITY CO. FOR TERMINATIONS.
20. GENERATOR POWER/LOW VOLTAGE JUNCTION BOX. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF GENERATOR AND TERMINATION OF ALL POWER AND CONTROL CONDUITS AND CONDUCTORS.
21. ALLOTTED SPACE FOR FUTURE TRAILER MOUNTED PORTABLE GENERATOR.
22. FURNISH AND INSTALL (1) 4" SCHD 80 PVC CONDUIT AT 36" BELOW GRADE FOR UTILITY SERVICE CONDUCTORS. CONTRACTOR SHALL COORDINATE ROUTING WITH UTILITY CO, AND ALL EXISTING UNDERGROUND UTILITIES.
23. PAD-MOUNTED TRANSFORMER WILL BE INSTALLED BY UTILITY CO. COORDINATE FINAL PLACEMENT OF TRANSFORMER IN FIELD WITH UTILITY CO. CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY CO. REQUIREMENTS.
24. LOAD BANK TERMINAL JUNCTION BOX. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF LOAD BANK AND TERMINATION OF ALL POWER AND CONTROL CONDUITS AND CONDUCTORS.
25. FURNISH AND INSTALL (3) 1" SCHD 80 PVC CONDUIT AT 36" BFG FOR MONITORING FROM GENERATOR TO LOAD BANK PLC.
26. FURNISH AND INSTALL (4) 1" SCHD 80 PVC CONDUIT AT 36" BFG FOR ELECTRICAL CONDUCTORS FROM HUT SHELTER TERMINAL BLOCK TB-05.
27. FURNISH AND INSTALL (2) 4" SCHD 80 PVC CONDUIT AT 36" BFG FOR LOAD BANK POWER FEED FROM GENERATOR. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 25 FOR CONDUCTOR SIZES.
28. INFILTRATION TRENCH. ROUTE CONDUIT 24" BELOW BOTTOM OF TRENCH. RGS CONDUIT ROUTED WITHIN 24" OF INFILTRATION TRENCH EDGE, UNDER, OR WITHIN INFILTRATION TRENCH SHALL BE PVC-COATED RGS. MAINTAIN PVC COATING UP TO 6" AFG. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
29. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 36" BFG FOR FUTURE ELECTRICAL SERVICE CONDUCTORS TO FUTURE HUT SHELTER DISCONNECT SWITCH LOCATION. CAP CONDUIT IN PULLBOX.
30. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 36" BFG FOR FUTURE UTILITY SECONDARY CONDUCTORS. STUB OUT AT FUTURE TRANSFORMER SECONDARY WINDOW, CAP AND MARK FOR FUTURE IDENTIFICATION. COORDINATE EXACT TERMINATION LOCATION AND REQUIREMENTS WITH UTILITY CO. CONTACT PRIOR TO ROUGH-IN AND PROVIDE ACCORDINGLY.
31. FURNISH AND INSTALL (2) 4" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 36" BFG FOR FUTURE GENERATOR SERVICE CONDUCTORS. CAP IN CONDUIT PULLBOX.
32. FURNISH AND INSTALL (1) 1" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 36" BFG FOR FUTURE GENERATOR LOAD CENTER. CAP CONDUIT IN PULLBOX.
33. FURNISH AND INSTALL (6) 1" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 36" BFG FOR FUTURE LOW VOLTAGE CONTROLS. CAP CONDUIT IN PULLBOX.
34. FURNISH AND INSTALL (3) 1" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 36" BFG FOR FUTURE MONITORING FROM GENERATOR TO LOAD BANK.
35. FURNISH AND INSTALL (3) 1" SCHD 80 PVC EMPTY CONDUITS WITH PULLWIRE AT 36" BFG FOR FUTURE LOADBANK LOW VOLTAGE CONTROLS, CAP CONDUIT IN PULLBOX.

0 20' 40'
GRAPHIC SCALE: 1" = 20'

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

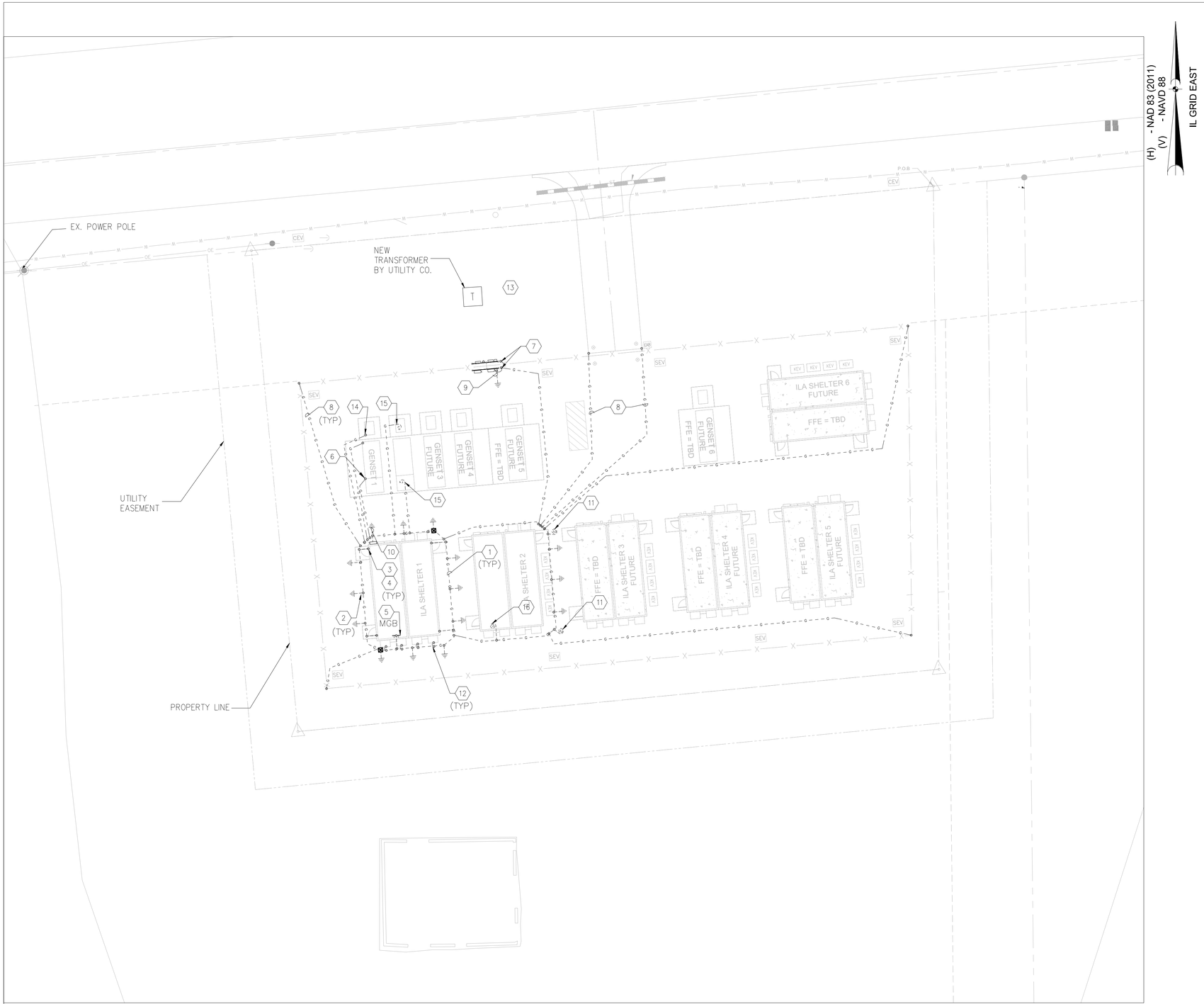
60645418

SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

17



1 ELECTRICAL GROUNDING PLAN
SCALE: 1" = 20'

0 20' 40'
GRAPHIC SCALE: 1" = 20'

GENERAL NOTES

A. REFER TO ELECTRICAL GENERAL NOTES, SYMBOLS LEGENDS, AND ABBREVIATIONS ON SHEET 16.

B. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET 20.

C. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET ## FOR ADDITIONAL INFORMATION.

D. REFER TO HUT DESIGN PACKAGE FOR ADDITIONAL GROUNDING DETAILS.

E. THE GC SHALL PROVIDE ALL BACKFILL OF ELECTRICAL AND FIBER TRENCHES. ALL BACKFILL SHALL BE FREE OF PEAT, MARL, HIGHLY PLASTIC CLAY, OR OTHER UNSUITABLE MATERIALS SUCH AS TRASH, DEBRIS, BRUSH, OR ICE.

F. ALL PRODUCTS ASSOCIATED WITH THE GROUNDING SYSTEM SHALL BE UL LISTED AND LABELED.

G. THE GC IS RESPONSIBLE FOR INSTALLING ALL SITE GROUNDING AS SHOWN, UON.

H. THE GC SHALL INSTALL ALL GROUNDING CONDUCTORS AT A MINIMUM OF 36" DEPTH BFG .

I. METAL SURFACES TO BE JOINED SHALL BE PREPARED BY THE REMOVAL OF ALL NON-CONDUCTIVE MATERIAL, PER NEC 250-12. ALL COPPER BUS BARS SHALL BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE OXIDATION.

J. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY IRREVERSIBLE MEANS (EXOTHERMIC WELDED) CONNECTIONS, UON.

K. ALL EXTERIOR GROUNDING CONNECTIONS SHALL HAVE CORROSION INHIBITING COMPOUND APPLIED AFTER CONNECTIONS ARE MADE, SANCHEM INC. "NO-OX-ID" OR OWNER PRE-APPROVED INDUSTRY STANDARD EQUAL.

L. ALL GROUND RING "C" TAP AND "H" TAP CONNECTIONS SHALL HAVE TAP COVERS INSTALLED.

KEYNOTES (#)

1. #1/0 STRANDED TINNED COPPER GROUND RING OR BONDING CONDUCTOR.
2. COPPER GROUND ROD, 10'-0" L X 3/4" DIA., SPACED 10'-0" MIN. ALONG HUT SHELTER GROUND RING.
3. FOUNDATION REBAR TO BE GROUNDED WITH SOLID COPPER WIRE, #4 MIN. ONE LOCATION MIN.
4. THE HUT SHELTER HAS FOUR (4) EXTERIOR STAINLESS STEEL GROUND PADS THAT MUST BE USED FOR GROUNDING THE HUT SHELTER, USING TWO-HOLE LUG CONNECTORS.
5. BOND THE HUT SHELTER'S INTERIOR MASTER GROUND BAR (MGB) TO THE HUT SHELTER GROUND RING. FIELD VERIFY EXACT MGB LOCATION PRIOR TO ROUGH-IN AND CONNECTIONS. REFER TO HUT SHELTER DESIGN PACKAGE FOR ADDITIONAL DETAIL.
6. BOND THE GENERATOR TO THE HUT SHELTER GROUND RING.
7. BOND THE UTILITY AND METERING EQUIPMENT H-FRAMES TO THE HUT SHELTER GROUND RING.
8. BOND ALL CORNER FENCE POSTS AND GATE ENTRANCE POSTS TO THE HUT SHELTER GROUND RING.
9. ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR. ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
10. HUT BUILDING GROUNDING ELECTRODE CONDUCTOR. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
11. FUTURE HUT SHELTER GROUND RING BONDING CONDUCTOR. LEAVE 50'-0" SLACK BONDING CONDUCTOR COILED AND BURIED 36" BFG FOR FUTURE BONDING CONNECTIONS. MARK FOR FUTURE IDENTIFICATION BY OTHERS.
12. BOND ALL HVAC UNITS AND VANDAL CAGES TO HUT SHELTER GROUND RING.
13. PROVIDE TRANSFORMER GROUNDING IN ACCORDANCE WITH UTILITY CO. REQUIREMENTS. COORDINATE WITH UTILITY FOR DELINEATION OF RESPONSIBILITIES.
14. BOND LOAD BANK TO HUT SHELTER GROUND RING.
15. FUTURE EQUIPMENT BONDING CONDUCTOR. LEAVE 10'-0" SLACK BONDING CONDUCTOR COILED AND BURIED 36" BFG FOR FUTURE BONDING CONNECTIONS. MARK FOR FUTURE IDENTIFICATION BY OTHERS.
16. FUTURE HUT SHELTER MGB BOND CONDUCTOR LEAVE 30'-0" SLACK BONDING CONDUCTOR COILED AND BURIED 36" BFG FOR FUTURE IDENTIFICATION BY OTHERS.

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

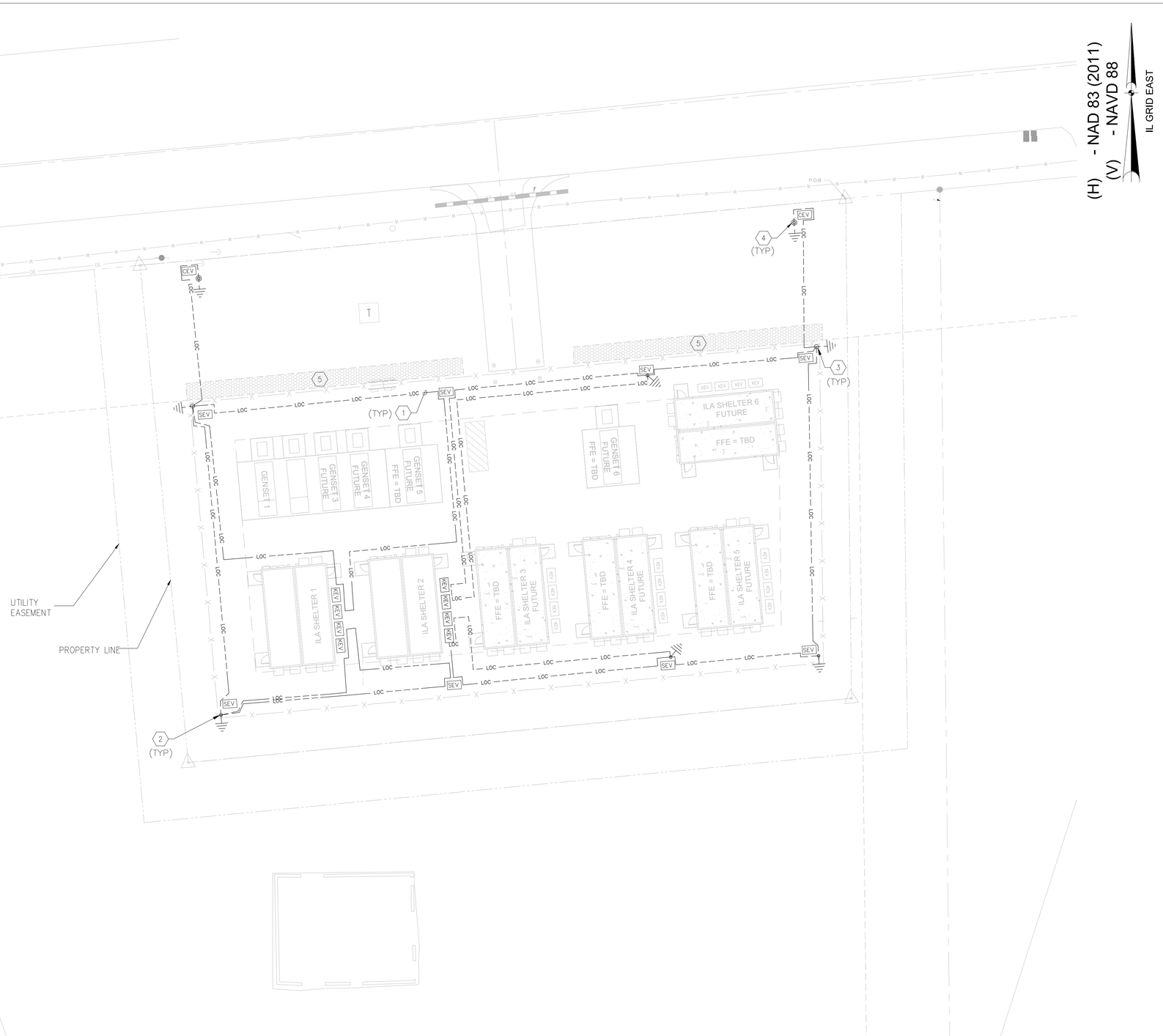
SHEET TITLE

ELECTRICAL GROUNDING PLAN

SHEET NUMBER

18

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"
Last saved by: LYNDENJ (2025-12-23) Last Plotted: 2026-01-08
Filename: C:\USERS\STONEFONEDRIVE - AECOM\INDIGO - CITY METRO'S - DOCUMENTS\GENERAL\900_CAD\ORD-LH\ORD-LH1.5\04-CAD\03-SHEETS\ARTEMIS-H-SHT-E-GRND.DWG



1 ELECTRICAL CONDUIT TRACING PLAN
SCALE: 1" = 20'

0 20' 40'
GRAPHIC SCALE: 1" = 20'

GENERAL NOTES

A. REFER TO ELECTRICAL GENERAL NOTES, SYMBOLS LEGENDS, AND ABBREVIATIONS ON SHEET 16.

B. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET 20.

C. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET 21 FOR ADDITIONAL INFORMATION.

D. REFER TO HUT DESIGN PACKAGE FOR ADDITIONAL GROUNDING DETAILS.

E. THE GC SHALL PROVIDE ALL BACKFILL OF ELECTRICAL AND FIBER TRENCHES. ALL BACKFILL SHALL BE FREE OF PEAT, MARL, HIGHLY PLASTIC CLAY, OR OTHER UNSUITABLE MATERIALS SUCH AS TRASH, DEBRIS, BRUSH, OR ICE.

F. ALL GROUND RODS SHALL BE COPPER-CLAD, 3/4" DIA. X 10'-0" L.

G. ALL GROUND RODS SHALL BE DRIVEN UNTIL THE TOP OF THE ROD IS AT A DEPTH OF 18" BELOW FINISHED GRADE.

H. TRACER WIRE SHALL BE #6 AWG, SOLID COPPER, 0.045MIL HMWPE ORANGE INSULATION, BURIED AT 18" BELOW GRADE.

I. MARKER POLES, WITH ORANGE FIBER OPTIC CABLE WARNING DOME, AND BAND MARKINGS AS REQUIRED FOR ROUTE MARKER (GENERAL), INTERMEDIATE SLACK VAULT (ISV), INTERCONNECT ENTRY VAULT (IEV), OR NETWORK SPLICE VAULT (NSV) WITH LOCATE TEST STATION MARKER POLE. POLES ARE 72" LONG, AND BURIED TO 24" BELOW GRADE.

J. PROVIDE MARKER POLES WITH BLACK BAND MARKINGS AS FOLLOWS; GENERAL - NO BANDS, ISV - 1 BAND, IEV - 2 BANDS, NSV - 3 BANDS. ADDITIONAL MARKER POLE IDENTIFICATION MARKINGS SHALL BE COORDINATED WITH MMI MIDWEST LLC DOC# LL.A.DR.C01.20200825.

KEYNOTES (#)

1. TRACER WIRE, REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. GROUND ROD, REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
3. FIBER OPTIC MARKER POLE FOR TRACER CABLE. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
4. FIBER OPTIC MARKER POLE WITH LOCATE TEST POINT STATION. REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION.
5. INFILTRATION TRENCH. ROUTE TRACER WIRE 18" BELOW BOTTOM OF INFILTRATION TRENCH. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.

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I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

ELECTRICAL CONDUIT TRACING PLAN

SHEET NUMBER

19

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"

Last saved by: LYNDEN.J (2025-12-22) Last Plotted: 2026-01-08
Filename: C:\USERS\STONEFONEDRIVE - AECOM\INDIGO - CITY METRO'S - DOCUMENTS\GENERAL\900_CAD\ORD-LH\ORD-LH1.5\04-CAD\03-SHEETS\ARTEMIS-H-SHT-E-TRACE.DWG

DIVISION 26 – ELECTRICAL

SECTION 260499 – BASIC ELECTRICAL REQUIREMENTS

1. GENERAL

1.1. THE FOLLOWING ARE MINIMUM REQUIREMENTS, AS THEY APPLY TO THIS PROJECT, AND SHALL GOVERN, EXCEPT THAT BUILDING LAWS AND/OR DRAWINGS SHALL GOVERN WHEN THEIR REQUIREMENTS ARE IN EXCESS THEREOF.

2. DRAWINGS AND SPECIFICATIONS

2.1. THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND EQUIPMENT DRAWINGS AND SPECIFICATIONS ARE HEREBY INCORPORATED INTO AND BECOME A PART OF THIS DIVISION. THIS CONTRACTOR SHALL EXAMINE ALL SUCH DRAWINGS AND SPECIFICATIONS AND BECOME THOROUGHLY FAMILIAR WITH PROVISIONS CONTAINED HEREIN AND THE SUBMISSION OF HIS BID SHALL BE CONSTRUED AS INDICATING SUCH KNOWLEDGE.

2.2. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND PIPING. DIMENSIONS GIVEN ON THE PLANS SHALL BE VERIFIED IN THE FIELD. DRAWINGS MAY NOT BE SCALED TO OBTAIN EXACT DIMENSIONS.

2.3. THE EXACT LOCATIONS OF APPARATUS, FIXTURES, EQUIPMENT AND CONDUITS SHALL BE ASCERTAINED FROM THE OWNER'S REPRESENTATIVE IN THE FIELD, AND THE WORK SHALL BE LAID OUT ACCORDINGLY. SHOULD THE CONTRACTOR FAIL TO ASCERTAIN SUCH LOCATIONS, THE WORK SHALL BE CHANGED AT HIS OWN EXPENSE WHEN SO ORDERED BY THE OWNER. THE OWNER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CONDUIT AND EQUIPMENT UP TO THE TIME OF INSTALLATION, WITHOUT ADDITIONAL COST.

2.4. THE ELECTRICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND SUPPLIED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE PROVIDED BY THIS CONTRACTOR.

2.5. THE WORK REQUIRED UNDER THESE SPECIFICATIONS INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO PROVIDE LIGHTING AND POWER SYSTEMS, SERVICE ENTRANCES, MOTOR CONTROLS AND CONNECTIONS, BRANCH CIRCUITING, FEEDERS, PANELS, FIXTURES, WIRING DEVICES, AND OTHER ITEMS SHOWN ON THE PLANS OR SPECIFIED.

2.6. WHEN THE SPECIFICATION OF AN ITEM IS NOT IDENTIFIED WITH A PARTICULAR AREA, THE ITEM SHALL PERTAIN TO ALL AREAS.

2.7. THIS CONTRACTOR SHALL FURNISH SUCH LABOR AND MATERIALS AS HEREINAFTER SPECIFIED AND AS REQUIRED TO COMPLETE ALL ELECTRICAL CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT AND OWNER'S EQUIPMENT AS SHOWN AND/OR SPECIFIED.

3. EXAMINATION OF SITE

3.1. BIDDER IS TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND SATISFY HIMSELF AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT OF MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.

4. DEFINITIONS

4.1. "INSTALL" SHALL MEAN TO PLACE, FIX IN POSITION, SECURE, ANCHOR, WIRE, ETC., INCLUDING NECESSARY APPURTENANCES AND LABOR SO THAT EQUIPMENT OR INSTALLATION WILL FUNCTION AS SPECIFIED AND INTENDED.

4.2. "FURNISH" SHALL MEAN TO PURCHASE AND SUPPLY EQUIPMENT OR COMPONENTS.

4.3. "PROVIDE" SHALL MEAN TO "FURNISH AND INSTALL".

4.4. "OR APPROVED EQUAL" SHALL MEAN EQUAL IN TYPE, DESIGN, QUALITY, STYLE, COLOR, ETC., AS DETERMINED BY THE ENGINEER/ARCHITECT.

5. INTERFERENCES

5.1. IT SHALL BE THE DUTY OF THIS CONTRACTOR TO REPORT ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF ANY OTHER CONTRACTOR TO THE OWNER OR ARCHITECT AS SOON AS THEY ARE DISCOVERED. THE OWNER OR ARCHITECT WILL DETERMINE WHICH EQUIPMENT SHALL BE RELOCATED REGARDLESS OF WHICH WAS FIRST INSTALLED, AND HIS DECISION SHALL BE FINAL.

6. MATERIALS AND WORKMANSHIP

6.1. ALL WORK SHALL BE INSTALLED IN A PRACTICAL AND WORKMANLIKE MANNER BY COMPETENT WORKMEN, SKILLED IN THEIR BRANCH OF THE TRADE.

6.2. UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE DRAWINGS, ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND SHALL BE THE BEST OF THEIR SEVERAL KINDS.

6.3. ALL MATERIAL AND EQUIPMENT SHALL MEET OR EXCEED STANDARDS SPECIFIED BY U.L., NEMA, ANSI AND IEEE WHEREVER SUCH STANDARDS HAVE BEEN ESTABLISHED.

6.4. FROM TIME-TO-TIME DURING THE OPERATION AND AT THE COMPLETION THEREOF, THIS CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS CAUSED BY HIS WORK AND HE SHALL LEAVE THE AREA OF THE OPERATION BROOM CLEAN.

6.5. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BEAR THE UNDERWRITER'S LABORATORIES (U.L.) LABEL.

7. SUPPORTS

7.1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLE IRON, CHANNEL IRON, RODS, SUPPORTS OR HANGERS REQUIRED TO INSTALL OR MOUNT PANELBOARDS, SWITCHBOARDS, OR ANY ELECTRICAL EQUIPMENT CALLED FOR ON THE PLANS, IN THESE SPECIFICATIONS, OR AS NECESSARY TO MOUNT ANY PIECE OF ELECTRICAL EQUIPMENT, MATERIAL, OR DEVICE. CONDUIT, FIXTURES, OR ANY ELECTRICAL DEVICES SHALL NOT BE SUPPORTED FROM STEEL DECK, BRIDGING, CEILING, OR CEILING SUPPORT WIRES.

8. TEMPORARY CONSTRUCTION POWER AND LIGHTING

8.1. SUFFICIENT TEMPORARY POWER, DURING CONSTRUCTION, FOR HEATING, LIGHTING, APPLIANCES, OR MOTORIZED PORTABLE EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

9. CODES, LAWS, PERMITS AND INSPECTIONS

9.1. INSTALL ALL WORK IN FULL ACCORDANCE WITH CODES, RULES AND REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITY, AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THIS SHALL INCLUDE ALL REQUIREMENTS OF THE CITY BUILDING CODE, REGULATIONS OF THE STATE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA, ADA (AMERICANS WITH DISABILITIES ACT), AND THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AS INTERPRETED BY THE LOCAL INSPECTION DIVISION. ALL THESE CODES, RULES, AND REGULATIONS ARE HEREBY INCORPORATED INTO THIS SPECIFICATION.

9.2. COMPLY WITH SPECIFICATION REQUIREMENTS WHICH ARE IN EXCESS OF CODE REQUIREMENTS AND NOT IN CONFLICT WITH SAME.

9.3. THE CONTRACTOR SHALL SECURE ALL PERMITS AND CERTIFICATES OF INSPECTION INCIDENTAL TO THE WORK, REQUIRED BY FOREGOING AUTHORITIES. ALL SUCH CERTIFICATES SHALL BE DELIVERED TO THE OWNER IN DUPLICATE, BEFORE FINAL PAYMENT ON CONTRACT WILL BE ALLOWED. THE CONTRACTOR SHALL PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREWITH.

10. FIELD CHANGES (AS-BUILT DRAWINGS)

10.1. KEEP ONE (1) SET OF WORKING DRAWINGS AND SHOP DRAWINGS AT THE JOB SITE FOR SOLE PURPOSE OF RECORDING ALL CHANGES MADE DURING CONSTRUCTION. AFTER COMPLETION OF THE WORK AND BEFORE REQUESTING FINAL PAYMENT, THE ABOVE MENTIONED DRAWINGS SHALL BE DELIVERED TO THE OWNER.

11. LABELING AND NAMEPLATES

11.1. PERMANENTLY LABEL ALL PANELBOARDS AND SAFETY SWITCHES INDICATING EQUIPMENT OR PANELS AND AREAS WHICH THEY SERVE.

11.2. PANELS SHALL BE LABELED AS SHOWN ON DRAWINGS.

11.3. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL IDENTIFICATION FOR PULL OR JUNCTION BOXES FURNISHED BY HIM.

11.4. IDENTIFY AS TO USE ON FACE OF EQUIPMENT BY MEANS OF LAMINATED BLACK AND WHITE PHENOLIC LABEL WITH 3/8" LETTERS ENGRAVED THROUGH BLACK TO WHITE.

11.5. MATERIALS

11.5.A. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND.

11.6. INSTALLATION

11.6.A. DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND TAPE LABELS.

11.6.B. INSTALL NAMEPLATES AND TAPE LABELS PARALLEL TO EQUIPMENT LINES.

11.6.C. SECURE NAMEPLATES TO EQUIPMENT FRONTS USING SCREWS, RIVETS OR ADHESIVE. SECURE NAMEPLATES TO INSIDE FACE OF RECESSED PANELBOARD DOORS IN FINISHED LOCATIONS.

11.6.D. MARK EVERY JUNCTION OR PULL BOX COVER PLATES WITH THE CIRCUIT NUMBER(S) OF ALL WIRES CONTAINED THEREIN.

11.7. WIRE INSTALLATION

11.7.A. PROVIDE WIRE MARKERS ON EACH CONDUCTOR AT TERMINAL STRIPS AND AT FINAL LINE AND LOAD CONNECTIONS. IDENTIFY WITH BRANCH CIRCUIT OR FEEDER NUMBER OF POWER AND LIGHTING CIRCUITS, AND WITH CONTROL WIRE NUMBER AS INDICATED ON EQUIPMENT MANUFACTURER'S SHOP DRAWINGS FOR CONTROL WIRING OR AS DRAWINGS INDICATE.

11.7.B. ALL WIRES SHALL BE COLOR CODED. COLOR CODE BRANCH CIRCUIT WIRING AS FOLLOWS:

THREE-PHASE SYSTEM 120/208V

PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUND	GREEN

THREE-PHASE SYSTEM 277/480V

PHASE A	BROWN
PHASE B	ORANGE
PHASE C	YELLOW
NEUTRAL	GRAY
GROUND	GREEN

SWITCHED WIRES: OTHER THAN COLORS LISTED ABOVE
TRAVELERS BETWEEN 3-WAY SWITCHES: PURPLE
INSULATED GROUND: GREEN WITH YELLOW STRIPES

12. WARRANTY

12.1. IN ADDITION TO WARRANTIES OF EQUIPMENT BY MANUFACTURER OF SAME, THIS CONTRACTOR SHALL ALSO WARRANTY EQUIPMENT PROVIDED BY HIM AND SHALL BE HELD FOR A PERIOD OF ONE (1) YEAR TO MAKE GOOD ANY DEFECTS IN MATERIAL AND WORKMANSHIP OCCURRING DURING THIS PERIOD, AT HIS SOLE EXPENSE. THIS ONE (1) YEAR PERIOD SHALL START FROM THE DATE OF FINAL ACCEPTANCE BY OWNER.

13. SCOPE OF WORK

13.1. FURNISH ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE ELECTRICAL WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN OR REQUIRED TO COMPLETE THE CONSTRUCTION OF THE BUILDING AS SHOWN.

13.2. THE LISTING HEREIN OF ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRED TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR (UNLESS NOTED TO BE SUPPLIED BY OTHERS) SHALL BE OF QUALITY OR SUBJECT TO QUALIFICATIONS AS NOTED. EACH OPERATION SHALL BE PERFORMED ACCORDING TO STANDARD PRACTICE, MANUFACTURER'S INSTRUCTIONS, AND CONDITIONS STATED, PROVIDING, THEREFORE, ALL NECESSARY LABOR, EQUIPMENT AND INCIDENTALS.

13.3. THE ELECTRICAL CONTRACTOR SHALL SCHEDULE HIS WORK TO CONFORM TO THE PROGRESS OF THE OTHER TRADES AND CONTRACTORS EMPLOYED ON THIS PROJECT.

13.4. THE ELECTRICAL WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:

13.4.A. DEMOLITION WORK AS REQUIRED.

13.4.B. COMPLETE POWER DISTRIBUTION SYSTEMS INCLUDING PANELS, AS SHOWN ON PLANS.

13.4.C. COMPLETE BRANCH CIRCUIT WIRING SYSTEM.

13.4.D. TEMPORARY ELECTRIC SERVICE AS REQUIRED FOR CONSTRUCTION.

13.4.E. TESTING OF ALL ELECTRICAL EQUIPMENT.

14. MANDATORY SHOP DRAWINGS

14.1. SUBMIT A MINIMUM OF FIVE (5) COPIES OF ALL REQUIRED ELECTRICAL SHOP DRAWINGS.

14.2. SHOP DRAWINGS SHALL BE SUBMITTED FOR:

14.2.A. PANELBOARDS, GEAR, ETC.

14.2.B. ALL WIRING DEVICES

14.2.C. GROUNDING EQUIPMENT

END OF SECTION – 260499

SECTION 260500 – BASIC MATERIALS AND METHODS

1. CONDUIT

1.1. ALL WIRE SHALL BE RUN IN ACCORDANCE WITH THE APPLICABLE CODES IN CORROSION RESISTANT, RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (EMT), UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.

1.1.A. CONDUIT BELOW SLAB, EXPOSED TO WEATHER, OR UNDERGROUND SHALL BE RIGID, THREADED, GALVANIZED, HEAVY WALL TYPE.

1.1.B. CARLON PVC, TYPE 80 HEAVY WALL CONDUIT WITH GROUND WIRE MAY BE USED UNDERGROUND BELOW FLOOR SLAB OR PAVEMENT IN LIEU OF RIGID, THREADED, GALVANIZED CONDUIT. PVC SCHEDULE 80 CONDUIT SHALL NOT BE RUN IN OR ABOVE FIRST FLOOR SLAB. PVC CONDUIT SHALL TERMINATE BELOW FLOOR SLAB WITH RIGID, THREADED METAL CONDUIT ADAPTER. CONDUIT ABOVE SLAB SHALL BE METAL.

1.1.C. A GROUND CONDUCTOR SHALL BE SUPPLIED IN ALL CONDUITS AND RACEWAYS. THE GROUND CONDUCTOR SHALL BE COPPER, AND SIZED PER THE NEC OR AS SHOWN ON DRAWING, WHICHEVER IS MORE STRINGENT.

1.2. CONDUIT AND EMT SHALL BE DELIVERED TO THE BUILDING IN 10-FOOT LENGTHS AND EACH LENGTH SHALL HAVE THE U.L. LABEL.

1.3. EMT CONNECTORS AND COUPLERS SHALL BE RAIN TIGHT TYPE MADE OF DIE CAST AS MANUFACTURED BY THOMAS & BETTS, STEEL CITY, OR APPLETON. BENDS AND OFFSETS SHALL BE MADE WITH A HICKEY OR POWER BENDER WITHOUT KINKING OR DESTROYING THE SMOOTH BORE OF THE CONDUIT. PARALLELED CONDUITS SHALL RUN STRAIGHT AND TRUE WITH OFFSETS UNIFORM AND SYMMETRICAL. CONDUIT TERMINALS AT BOXES AND CABINETS SHALL BE RIGIDLY SECURED WITH LOCKNUTS AND BUSHINGS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND LOCAL ELECTRICAL CODE. INSULATED BUSHINGS SHALL BE USED ON ALL CONDUIT 1-1/4" TRADE SIZE AND LARGER.

1.4. CONDUIT SHALL BE SECURELY FASTENED IN PLACE AT NO MORE THAN 8-FOOT CENTERS, AND HANGERS, SUPPORTS OR FASTENINGS SHALL BE PROVIDED AT EACH CONDULET, ELBOW AND AT THE END OF EACH STRAIGHT RUN, TERMINATING AT A BOX OR CABINET. CONDUIT SHALL NOT BE SUSPENDED FROM THE CEILING OR CEILING SUSPENSION WIRES.

1.5. HORIZONTAL AND VERTICAL CONDUIT RUNS SHALL BE SUPPORTED BY ONE-HOLE MALLEABLE STRAPS OR OTHER APPROVED METAL DEVICE WITH SUITABLE BOLTS, EXPANSION SHIELD OR BEAM CLAMP FOR MOUNTING TO BUILDING STRUCTURE OR SPECIAL BRACKETS. CONDUIT SHALL BE SUPPORTED FROM STRUCTURAL STEEL OR JOIST AND INDEPENDENT OF OTHER PIPING. DO NOT SUPPORT CONDUIT FROM METAL ROOF DECK OR ANY OTHER SUPPORT DEVICE OF ANOTHER TRADE.

1.6. ARMORED CABLE (BX) OR NONMETALLIC SHEATHED CABLE (ROMEX) SHALL NOT BE USED.

1.7. NO ALUMINUM CONDUIT SHALL BE USED.

1.8. ONLY SHORT RUNS OF FLEXIBLE METAL CONDUIT NOT OVER 6' IN LENGTH AND HAVING A GROUND CONDUCTOR, SHALL BE USED FOR TERMINAL CONNECTIONS TO MOTORS AND ALSO FOR ELECTRICAL EQUIPMENT WHERE IT IS NOT PRACTICAL TO MAKE FINAL CONNECTION WITH RIGID CONDUIT. FLEXIBLE CONDUIT EXPOSED TO WEATHER SHALL BE SEALTITE.

1.9. EXPOSED CONDUIT AND CONDUIT IN CEILING SPACE SHALL BE RUN PARALLEL TO THE BUILDING STRUCTURE.

1.10. CONDUIT SYSTEM SHALL CONFORM TO ALL THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC/NFPA-70) AND LOCAL CODES.

2. CONDUCTORS

2.1. SIZES OF CONDUCTORS FOR FEEDERS ARE GIVEN ON THE DRAWINGS AND NO WIRE SMALLER THAN #12 GAUGE SHALL BE USED FOR BRANCH LIGHTING OR POWER CIRCUITS. ALL WIRING SHALL HAVE THE U.L. LABEL AND BE OF 98% CONDUCTIVITY COPPER. ALUMINUM WIRE OR ALUMINUM CABLE IS NOT ACCEPTABLE.

2.1.A. THE GAUGE OF ALL WIRE SHALL BE IN ACCORDANCE WITH B&S STANDARD.

2.2. ALL WIRE AND CABLE FOR SMALL POWER CIRCUITS SHALL HAVE "NEC" TYPE "THHN/THWN" 600-VOLT INSULATION.

2.3. WIRE AND CABLE ABOVE #8 GAUGE SHALL BE STRANDED TYPE "THWN" INSULATED FOR 600-VOLTS.

2.4. FOR SPECIAL CONDITIONS, AS PROVIDED BY THE NEC, TYPE "R.H.H., A.V.A." OR OTHER REQUIRED INSULATION SHALL BE USED.

3. GROUNDING

3.1. THIS CONTRACTOR SHALL PROVIDE, INSTALL AND CONNECT A COMPLETE SYSTEM OF GROUNDING FOR ALL EQUIPMENT AND STRUCTURES. A GOOD MECHANICAL AND ELECTRICAL CONNECTION SHALL BE MADE WITH APPROVED GROUNDING CONNECTORS.

3.2. ELECTRICAL SYSTEM AND EQUIPMENT GROUNDS SHALL COMPLY WITH THE NEC AS WELL AS ALL LOCAL AND STATE CODES AND REGULATIONS.

3.3. PANELS, CONDUIT SYSTEMS, MOTOR FRAMES, LIGHTING FIXTURES AND OTHER EQUIPMENT THAT ARE PART OF THIS INSTALLATION SHALL BE SECURELY GROUNDED BOTH MECHANICALLY AND ELECTRICALLY IN ACCORDANCE WITH ALL CODES.

3.4. SYSTEM GROUND SHALL NOT EXCEED A MAXIMUM OF TEN (10) OHMS RESISTANCE. VERIFY EXISTING GROUNDING SYSTEM AND ADD ADDITIONAL GROUNDING AS REQUIRED TO MEET THE ABOVE SPECIFIED VALUE.

3.5. A GROUND CONDUCTOR SHALL BE SUPPLIED IN ALL CONDUIT. IT SHALL BE INSULATED, STRANDED, ANNEALED COPPER CONDUCTOR.

4. TOGGLE SWITCHES AND RECEPTACLES

4.1. ALL SWITCHES AND RECEPTACLES SHALL BE HEAVY-DUTY TYPE, WHITE IN COLOR (EXCEPT SPECIAL CONFIGURATIONS NOT AVAILABLE IN WHITE).

4.2. ACCEPTABLE DEVICE MANUFACTURERS ARE COOPER WIRING, HUBBELL, LEVITON, OR PASS & SEYMOUR/LEGRAND. THIS BASIS OF DESIGN IS LEVITON.

4.3. WALL SWITCHES:

4.3.A. SINGLE POLES #1221, DOUBLE POLE #1222 AND THREE (3) WAY SWITCHES #1223 SHALL BE RATED 20-AMPERE, 120/277 VOLTS.

4.3.B. SWITCHES SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR TO CENTERLINE.

4.4. DUPLEX RECEPTACLES SHALL BE 20-AMPERE AT 125-VOLTS, #5362. MOUNT AT 18" ABOVE FLOOR TO CENTERLINE OR AS NOTED ON PLANS.

4.5. OUTDOOR RECEPTACLES SHALL BE WEATHERPROOF WITH "WHILE-IN-USE" SPRING COVERS (PASS & SEYMOUR# WUCAST1 PLATES OR APPROVED EQUAL).

5. WALL PLATES

5.1. UNLESS OTHERWISE NOTED, ALL PLATES IN FINISHED AREAS FOR WALL SWITCHES, RECEPTACLES AND TELEPHONE OUTLETS SHALL BE BRUSHED STAINLESS STEEL.

5.2. ALL PLATES SHALL HAVE FULL CONTACT WITH THE WALL AND BOXES. EDGES SHALL BE PARALLEL TO THE FINISHED WALLS AND CEILINGS.

6. OUTLETS

6.1. LOCATIONS OF OUTLETS ARE SHOWN APPROXIMATELY ON THE DRAWINGS. CONTRACTOR SHALL REFER TO THE SHOP DRAWINGS OF THE MANUFACTURERS OF THE EQUIPMENT FOR THE EXACT LOCATION OF OUTLETS FOR FIXTURES, MOTORS, HEATERS AND THEIR RESPECTIVE CONTROL DEVICES.

6.2. OUTLET BOXES FOR CONCEALED WORK SHALL BE PRESSED STEEL BOXES, GALVANIZED AND NOT LESS THAN #12 GAUGE, EXCEPT FLOOR BOXES WHICH SHALL BE CAST IRON. CEILING BOXES SHALL BE FOUR INCHES (4") ROUND AND OCTAGONAL WITH LUGS AND SCREWS FOR BACK PLATES. WALL OUTLETS SHALL BE FOUR INCHES (4") SQUARE BY 1-1/2" DEEP, SINGLE OR DOUBLE COVER, EXCEPT GANG BOXES OF SIMILAR DEPTH SHALL BE USED AT LOCATIONS REQUIRING MORE THAN 2-GANG.

6.3. OUTLETS ON THE EXTERIOR OF THE BUILDING SHALL BE FLUSH WEATHERPROOF TYPE.

6.4. ALL OUTLETS SHALL BE FIRMLY SECURED IN PLACE. OUTLETS IN FINISHED AREAS SHALL BE FLUSH WITH FINISHED CEILING OR WALLS.

6.5. ALL OUTLET LOCATIONS IN FLOOR SHALL BE VERIFIED WITH OWNER'S REPRESENTATIVE BEFORE POURING OF CONCRETE FLOOR.

7. BRANCH CIRCUIT WIRING

7.1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONNECT A COMPLETE SYSTEM OF PANELS, CONDUITS, WIRE FITTINGS, BOXES, SUPPORTS AND ALL OTHER MISCELLANEOUS MATERIALS REQUIRED FOR EQUIPMENT AS INDICATED ON THE PLANS AND READY FOR OPERATION BY THE OWNER.

7.2. ALL CIRCUITS SHALL BE COLOR CODED.

END OF SECTION – 260500

SECTION 262000 – ELECTRICAL SERVICE AND DISTRIBUTION

1. SECONDARY SERVICE

1.1. ELECTRICAL SERVICE SHALL BE SECONDARY, AS SHOWN ON PLANS WITH GROUNDED AND NEUTRAL AND SECONDARY METERING. PROVIDE ALL NECESSARY EQUIPMENT AND MATERIAL AND INSTALL THE SERVICE, METERING AND DISTRIBUTION EQUIPMENT ACCORDINGLY.

1.2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY TO SECURE COMPLETE DETAILS FOR THE CONNECTION TO THE EXISTING PRIMARY TRANSFORMER.

1.3. ELECTRICAL CONTRACTOR SHALL PROVIDE SECONDARY SERVICE CABLES AND CONDUITS FROM THE TRANSFORMER TO MAIN SERVICE AS INDICATED ON DRAWINGS.

1.4. SITE ELECTRICAL SHALL BE COORDINATED WITH LOCAL POWER COMPANY BY ELECTRICAL CONTRACTOR.

1.5. PROVIDE COORDINATION, VIA THE GENERAL CONTRACTOR, OF THE SITE ELECTRICAL CONTRACTOR FOR THE FINAL LOCATIONS, PENETRATIONS, AND SERVICE TIE-INS ASSOCIATED WITH SECONDARY POWER SERVICE ENTRANCE CONDUITS.

2. SAFETY SWITCHES

2.1. GENERAL

2.1.A. SWITCH SHALL BE HEAVY DUTY TYPE WITH VISIBLE, QUICK MAKE, QUICK BREAK BLADES. SWITCHES SHALL BE U.L. LISTED AND CONFORM TO NEMA STANDARDS.

2.2. ENCLOSURES

2.2.A. STEEL ENCLOSURES WITH OPERATING HANDLE AT SIDE. NEMA 1 FOR GENERAL INDOOR USE, NEMA 3R FOR GENERAL OUTDOOR USE AND NEMA 4 (STAINLESS STEEL) WHERE INDICATED ON THE DRAWINGS. MANUFACTURER'S STANDARD ENAMEL FINISH.

2.2.B. THE ENCLOSURE SHALL BE INTERLOCKED WITH THE SWITCH HANDLE SUCH THAT THE ENCLOSURE DOOR CANNOT BE OPENED WITH SWITCH IN THE "ON" POSITION. SWITCH HANDLE SHALL BE CAPABLE OF BEING PADLOCKED IN THE "OFF" POSITION.

2.3. RATINGS

2.3.A. SAFETY SWITCHES SHALL BE RATED FOR THE CONTINUOUS CURRENT AND VOLTAGE INDICATED ON THE DRAWINGS. WHERE USED IN CONJUNCTION WITH MOTOR CIRCUITS, UNITS SHALL BE HORSEPOWER RATED FOR THE SIZE MOTOR INDICATED.

2.3.B. SWITCHES USED AS SERVICE ENTRANCE EQUIPMENT SHALL BE U.L. LISTED FOR USE AS SERVICE EQUIPMENT.

2.4. POLES

2.4.A. SAFETY SWITCHES SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS, BUT NOT FEWER THAN ONE (1) POLE FOR EACH UNGROUNDED CONDUCTOR TO BE OPENED.

2.5. FUSES

2.5.A. WHERE INDICATED, SAFETY SWITCHES SHALL BE FUSED IN EACH UNGROUNDED LEG IN ACCORDANCE WITH THE REQUIREMENTS OF THE SECTION ENTITLED "FUSES".

2.6. SWITCH SHALL BE SQUARE -D # H366NR (NO EXCEPTIONS).

3. DISTRIBUTION PANELBOARDS (INCLUDING POWER PANELS)

3.1. POWER AND DISTRIBUTION PANELBOARDS SHALL BE SUITABLE FOR VOLTAGES, PHASE, AND WIRES INDICATED ON PLANS AND/OR RISER DIAGRAMS. PANELBOARDS SHALL HAVE SOLID NEUTRAL, COPPER BUSS, DEAD FRONT WITH LUGS IN THE MAINS, FUSES AND HEAVY-DUTY SWITCHES IN BRANCH CIRCUITS OF SIZE AND NUMBER INDICATED ON THE PLANS. ALL LUGS SHALL BE U.L. APPROVED CU/AL TYPE.

3.2. BREAKERS SHALL BE BOLTED TO BUS TYPE, QUICK-MAKE, QUICK-BREAK AND CAPABLE OF INTERCHANGING 1-, 2- OR 3-POLE UNITS. MULTIPLE UNITS SHALL BE COMMON TRIP.

3.3. PANELBOARDS SHALL BE PROVIDED WITH SPARES AND FULL PROVISIONS FOR FUTURE BREAKERS AS SHOWN.

3.4. PANELBOARDS SHALL BE MANUFACTURED AS A COMPLETE UNIT BY EATON, GENERAL ELECTRIC, SIEMENS, OR SQUARE -D, NOT AN ASSEMBLY OF PARTS SECURED FROM A SUPPLY HOUSE.

3.5. PANELBOARDS AND SWITCHES SHALL BE IDENTIFIED FOR "USAGE".

4. GENERAL (FOR ALL PANELBOARDS; INCLUDING POWER PANELS)

4.1. METAL FRAMED CARD HOLDERS WITH TYPEWRITTEN CIRCUIT DIRECTORY MUST BE PROVIDED FOR EACH PANELBOARD. DIRECTORY SHALL BE CLEAR AND DESIGNATION SHALL MATCH IDENTIFICATION ON EQUIPMENT. PANELBOARDS (SWITCHBOARD, DISTRIBUTION, POWER PANELS AND LIGHTING PANELS) SHALL BE IDENTIFIED BY A LABEL ON THE SWITCH AND/OR PANEL DOOR. PROVIDE ENGRAVED LAMINATED PHENOLIC NAMEPLATES WITH 3/8" LETTERS ENGRAVED THROUGH BLACK TO WHITE.

4.2. ALL PANELBOARDS, SAFETY SWITCHES, STARTERS AND IN GENERAL, ALL EQUIPMENT REQUIRING LUGS SHALL BE EQUIPPED WITH SOLDERLESS TYPE U.L. APPROVED LUGS.

4.3. PROVIDE ALL NECESSARY UNISTRUT, CHANNEL, BACKING AND SUPPORTS TO MOUNT SWITCHBOARD AND PANELBOARDS SECURELY IN PLACE.

5. FUSES

5.1. THIS CONTRACTOR SHALL REPLACE ALL FUSES BLOWN DURING CONSTRUCTION AND TESTING AND SHALL PROVIDE A COMPLETE SET OF FUSES IN ALL FUSE HOLDERS, SWITCHES, PANELS AND ALL OTHER DEVICES REQUIRING FUSES.

5.2. FUSES IN SWITCHBOARD AND MAIN DISTRIBUTION PANELBOARDS IN ELECTRIC ROOM SHALL BE AS INDICATED ON PLANS.

5.2.A. PROVIDE LABEL IN EACH SWITCH INDICATING FUSE TYPE, AMPERE RATING AND INTERRUPTING RATING.

5.2.B. REPLACE ALL BLOWN FUSES UP TO FINAL ACCEPTANCE OF JOB.

5.2.C. PROVIDE AND PLACE IN A WALL MOUNTED METAL CABINET IN ELECTRICAL ROOM A SPARE SET OF THREE (3) FUSES FOR EACH SIZE AND TYPE FUSE USED IN SWITCHBOARD IN ELECTRICAL ROOM. THE CABINET SHALL BE SIMILAR TO BUSSMAN SPARE FUSE CABINET #SFC, WITH DOOR, LOCKING HANDLE, INTERNAL SHELF AND FUSE STOCK LIST.

5.3. FUSES SHALL BE MERSEN # TRS600R (NO EXCEPTIONS).

END OF SECTION – 262000

ISSUE FOR BID PLANS
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ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

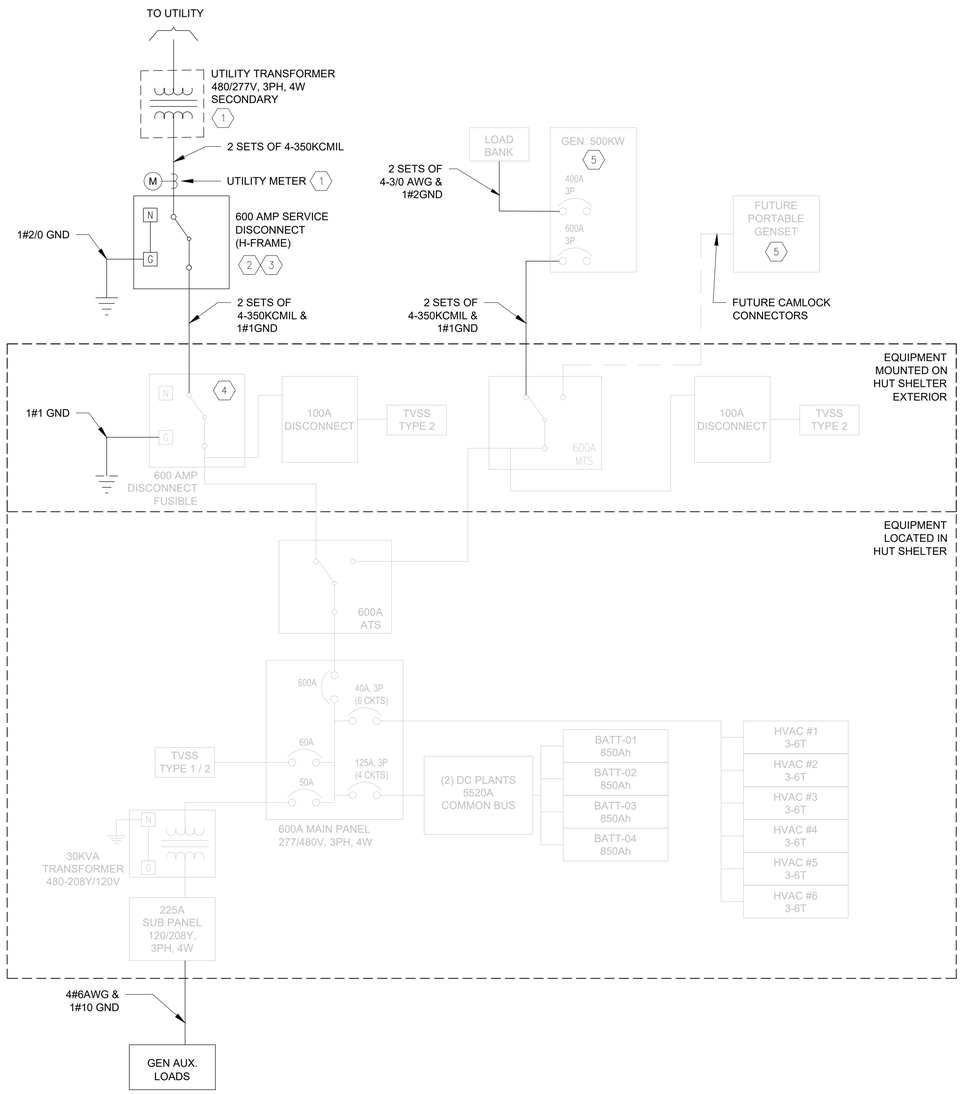
60645418

SHEET TITLE

ELECTRICAL SPECIFICATIONS

SHEET NUMBER

20



GENERAL NOTES

A. REFER TO ELECTRICAL GENERAL NOTES, SYMBOLS LEGENDS, AND ABBREVIATIONS ON SHEET 16.

B. REFER TO ELECTRICAL SITE PLAN ON SHEET 17 FOR EQUIPMENT LAYOUT AND CONDUIT SIZES.

C. REFER TO ELECTRICAL SPECIFICATIONS ON SHEET 20.

D. BLACK (DARK) LINES INDICATE CONTRACTOR PROVIDED EQUIPMENT.

E. LIGHT (HALFTONE) LINES INDICATE OWNER FURNISHED EQUIPMENT.

F. ELEMENTS WITHIN THE DASHED OUTLINE SHOULD BE PROVIDED WITH THE HUT SHELTER SHIPMENT AND ARE SHOWN FOR REFERENCE ONLY. THESE ELEMENTS ARE INSTALLED INSIDE OR ON THE HUT SHELTER; SHOWN WITHIN THE DASHED OUTLINE FOR GROUPING CLARITY PURPOSES ONLY. REFER TO THE META - VEGA DRAWING PACKAGE FOR CONDUIT SIZES, CONDUCTOR SIZES, PANEL SCHEDULES AND ADDITIONAL INFORMATION.

G. THE HUT SHELTER ELECTRICAL SYSTEM IS RATED AT 65,000 A.I.C. IF HIGHER RATINGS ARE REQUIRED IT IS THE RESPONSIBILITY OF THE SITE CONTRACTOR TO MEET SUCH REQUIREMENTS.

H. CONTRACTOR SHALL PROVIDE ARC FLASH STUDY AND POST INCIDENT ENERGY ON ALL EQUIPMENT REQUIRES BY NFPA 70E.

I. ALL LUGS THAT HOLD MORE THAN ONE WIRE SHALL BE LISTED FOR MULTI-BARRELL CONNECTIONS.

J. ALL CONDUCTORS SHALL BE COPPER.

K. THE GENERATOR SYSTEMS SHOWN ARE FOR REFERENCE ONLY. REFER TO THE META - VEGA DRAWING PACKAGE FOR GENERATOR ADDITIONAL INFORMATION AND REQUIREMENTS.

KEYNOTES (#)

1. CONTRACTOR SHALL COORDINATE WITH THE UTILITY CO. FOR TRANSFORMER CONNECTION AND METERING REQUIREMENTS AND DELINEATION OF WORK. REFER TO GENERAL UTILITY CO. COORDINATION NOTES ON SHEET 16 AND ELECTRIC UTILITY METER NOTE ON SHEET 17 FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
2. LABEL SERVICE ENTRANCE DISCONNECT WITH RED TAG.
3. NEUTRAL-TO-GROUND BOND SHALL ONLY BE MADE IN THE H-FRAME SERVICE DISCONNECT.
4. SERVICE RATED DISCONNECT SWITCH SHIPPED WITH HUT SHELTER SHALL NOT BE USED FOR UTILITY SERVICE CONNECTION. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT NO NEUTRAL-TO-GROUND BOND IS TERMINATED IN THE DISCONNECT.
5. NEUTRAL-TO-GROUND BOND SHALL NOT BE MADE AT THE GENERATOR MAIN CIRCUIT BREAKER DISCONNECTING MEANS.

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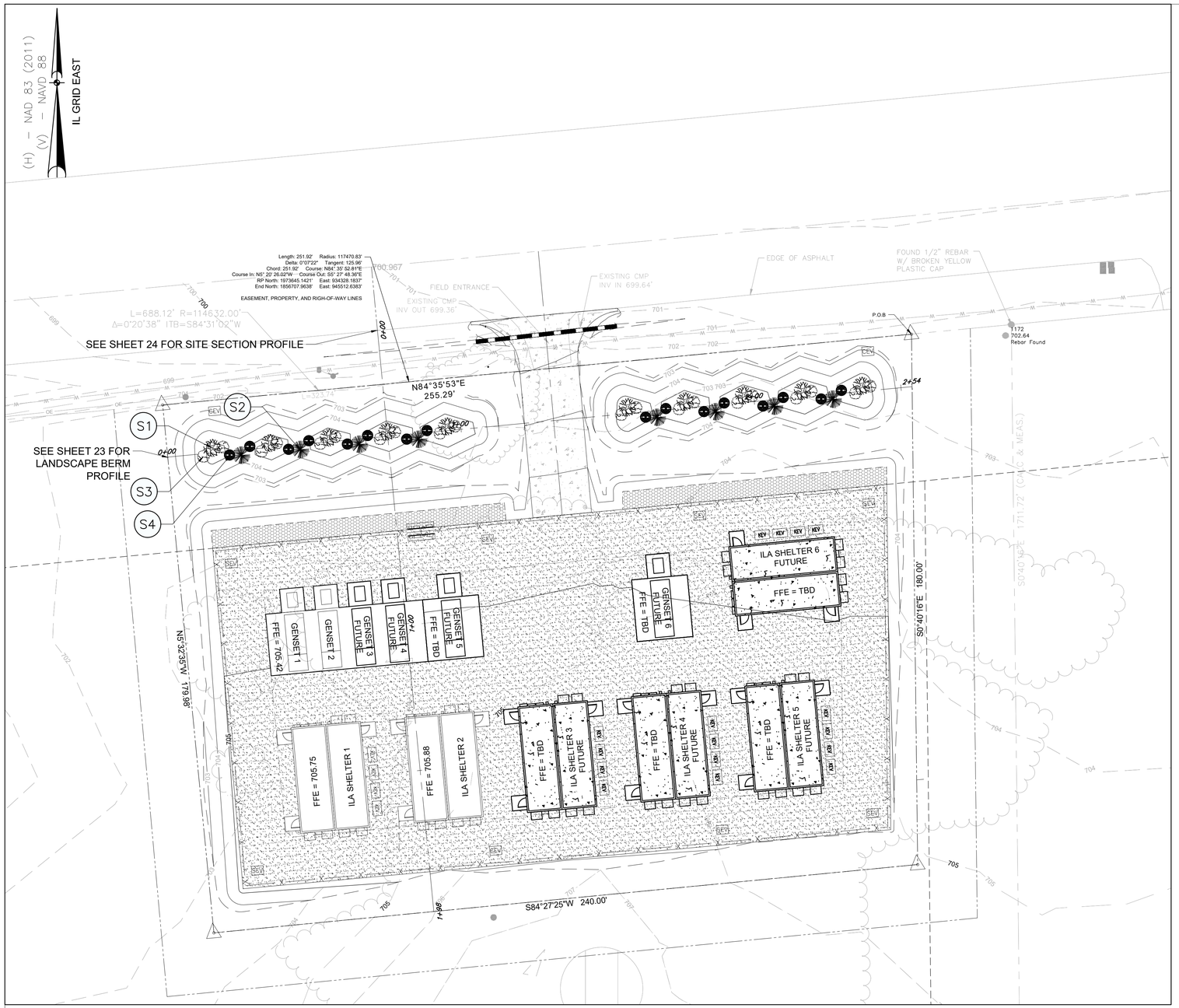
60645418

SHEET TITLE

ELECTRICAL ONE-LINE DIAGRAM

SHEET NUMBER

21



PLANT SPECIFICATIONS

TREE TYPE 1 (SHADE TREE) : EASTERN REDBUD
S1
SCIENTIFIC NAME: CERCIS CANADENSIS)
MIN MATURE SIZE: 20' - 30'
MIN CALIPER: 3"
QUANTITY: 6
SPACING: AS SHOWN
1/23

TREE TYPE 2 (EVERGREEN TREE) : EASTERN RED CEDAR
S2
SCIENTIFIC NAME: J. VIRGINIANA
MIN MATURE SIZE: 40' - 50'
MIN CALIPER: 3"
QUANTITY: 6
SPACING: AS SHOWN
1/23

SHRUB TYPE 3 (DECIDUOUS): CHOKEBERRY
S3
SCIENTIFIC NAME: ARONIA PRUNIFOLIA
MIN MATURE SIZE: 6' - 10'
MIN CALIPER: 18" - 24"
QUANTITY: 16
SPACING: AS SHOWN
2/23

SHRUB TYPE 4 (EVERGREEN): EASTERN ARBORVITAE
S4
SCIENTIFIC NAME: THUJA ACCIDENTALIS
MIN MATURE SIZE: 4' - 10'
MIN CALIPER: 19" - 24"
QUANTITY: 16
SPACING: AS SHOWN
2/23

TREE/SHRUB PLANTING NOTES

1. SAMPLE SITE SOILS FOR LABORATORY TESTING TO DETERMINE FERTILIZER COMPOSITION.
2. PROVIDE FERTILIZER WITH A COMPOSITION OF NITROGEN, PHOSPHOROUS, AND POTASSIUM IN THE AMOUNTS SPECIFIED IN SOIL LABORATORY REPORTS FOR PLANT SPECIES, FROM A QUALIFIED TESTING LABORATORY.

LANDSCAPE NOTES

1. LANDSCAPE PLANTING AND LANDSCAPE BERM AS DIRECTED BY THE SUGAR GROVE PLANNING COMMISSION MEETING COMMENTS ON 17 DECEMBER 2025 TO CONFORM TO THE APPROVED PLAN ASSOCIATED WITH THE 6.21 MW DC GROUND-MOUNTED SOLAR PV PLANS, U.S. ROUTE 30, SUGAR GROVE, IL, PREPARED BY SUNCODE, LLS, (PROJECT No. 3652230432) DATED MARCH 12, 2024.
   - 1.1. LANDSCPE PLANTING REQUIREMENTS
     - 1.1.1. SHADE TREES (TYPE1): 1 PER 50 LF (5 REQUIRED, 10 PROVIDED)
     - 1.1.2. EVERGREEN TREES (TYPE 2): 1 PER 50 LF (5 REQUIRED, 8 PROVIDED)
     - 1.1.3. DECIDUOUS SHRUBS (TYPE 3): 3 PER 50 LF (15 REQUIRED, 20 PROVIDED)
     - 1.1.4. EVERGREEN SCRUBS (TYPE 4): 3 PER 50 LF (15 REQUIRED, 16 PROVIDED)
     - 1.1.5. REPLACEMENTS: NONE PROPOSED
   - 1.2. STAKE ALL TREES OVER 6 FEET TALL
   - 1.3. TREES SHALL BEAR SAME RELATION TO FINISHED GRADE AT IT BORE TO PREVIOUS GRADE (OR SLIGHTLY ABOVE).
   - 1.4. NEVER CUT LEADERS
   - 1.5. PRUNE ONLY TO REMOVE DAMAGED OR BROKEN BRANCHES.
   - 1.6. REMOVE ALL BRACKETS FROM ROOTBALL.
   - 1.7. REMOVE STAKES 1 YEAR AFTER PLANTING.
   - 1.8. VEGETATION SHALL BE PLANTED ON TOP OF SCREENING BERM.
2. SECTION 11-9-7 OTHER STANDARDS REQUIRES EXISTING TREES, 6" IN DIAMETER OR GREATER, SHALL BE REPLACED. REPLACEMENT TREES SHALL BE REQUIRED IN ADDITIONAL TO ANY OTHER LANDSCAPING THAT MAY BE REQUIRED. NOT LESS THAN (1) 3-INCH CALIPER TREE SHALL BE REQUIRED FOR EACH 6-INCH TREE PROPOSED TO BE REMOVED. HOWEVER, IN NO INSTANCE SHALL MORE THAN (3) 3-INCH CALIPER REPLACEMENT TREES BE REQUIRED FOR ANY TREE REMOVAL
3. TOTAL SITE FRONTAGE WITHIN PROPERTY REQUIRING LANDSCAPE BUFFER = APPROXIMATELY 255'
4. LANDSCAPING MAINTENANCE WILL BE PROVIDED QUARTERLY AND AS NEEDED TO MAINTAIN SURVIVABILITY AND AESTHETIC VALUE.
5. MAINTENANCE OF REQUIRED LANDSCAPED AREAS IS THE RESPONSIBILITY OF THE PROPERTY OWNER. ALL SUCH AREAS SHALL BE PROPERLY MAINTAINED SO AS TO ASSURE THEIR SURVIVAL AND AESTHETIC VALUE AND SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM OR A READILY AVAILABLE WATER SUPPLY. FAILURE TO MONITOR SUCH AREAS IS A VIOLATION OF THIS ORDINANCE AND MAY BE REMEDIED IN THE MANNER PRESCRIBED FOR OTHER VIOLATIONS.
6. TREES WITH A DBH OF 6 INCHES OR GREATER WILL BE REMOVED AS PART OF THIS PROJECT

SEEDING AND SCHEDULE

1. SEED MIXTURE AND PLANTING SCHEDULE SHALL COMPLY WITH THE VILLAGE OF SUGAR GROVE STANDARD DETAILS, SPECIFICATIONS, AND NOTES.
2. EROSION CONTROL BLANKET SHALL BE PROVIDED AT ALL AREAS LOCATED WITH THE RIGHT OF WAY.

SEED MIXTURE

R.O.W & REMAINING GRASSED AREAS	IDOT CLASS 1 SEEDING MIXTURE
PERMANENT SEEDING MIXTURE	100 LBS/AC.. KENTUCKY BLUEGRASS 60 LBS/AC. PERENNIAL RYE GRASS 40 LBS/AC. CREEPING RED FESCUE
TEMPORARY SEED MIXTURE	50 LBS/AC. PERENNIAL RYE GRASS 64 LBS/A. OATS, SPRING
GRASSED WATERWAY AREA	CLASS 5 SEEDING MIXTURE
PERMANENT SEEDING MIXTURE	150 LBS/AC. KENTUCKY BLUEGRASS 150 LBS/AC. SMOOTH BROME GRASS
TEMPORARY SEEDING MIXTURE	50 LBS/AC. PERENNIAL RYE GRASS 64 LBS/AC OATS, SPRING

SEEDING SCHEDULE	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
PERMANENT SEED MIXTURE												
NONIRRIGATED				■	■			■	■			
IRRIGATED				■	■	■	■	■	■			
DORMANT (DOUBLE RATE)	■	■									■	■
TEMPORARY SEED MIXTURE												
RYE OR WHEAT							■	■	■			
OATS				■	■	■						

FERTILIZER MIXTURE FOR PROPOSED SEEDING AREA

NITROGEN	(N)	90 LBS/AC.		
PHOSPHORUS	(P)	90 LBS/AC.	OR	120 LBS/AC P_2O_5
POTASSIUM	(K)	90 LBS/AC.	OR	120 LBS/AC K_2O

0 20' 40'
GRAPHIC SCALE: 1" = 20'

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60645418

SHEET TITLE

LANDSCAPE PLAN

SHEET NUMBER

22

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"
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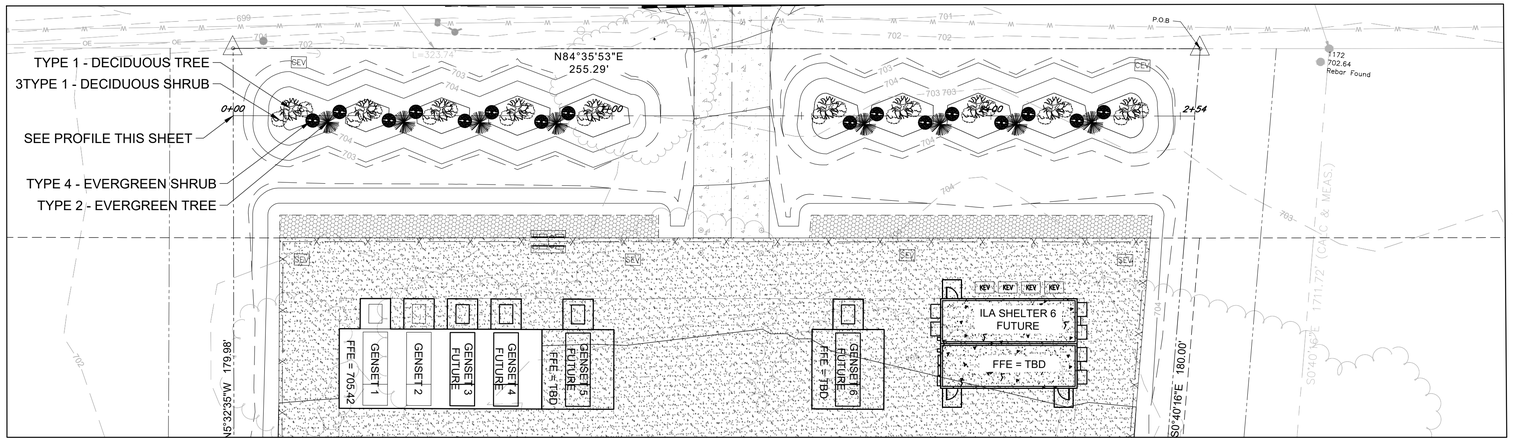
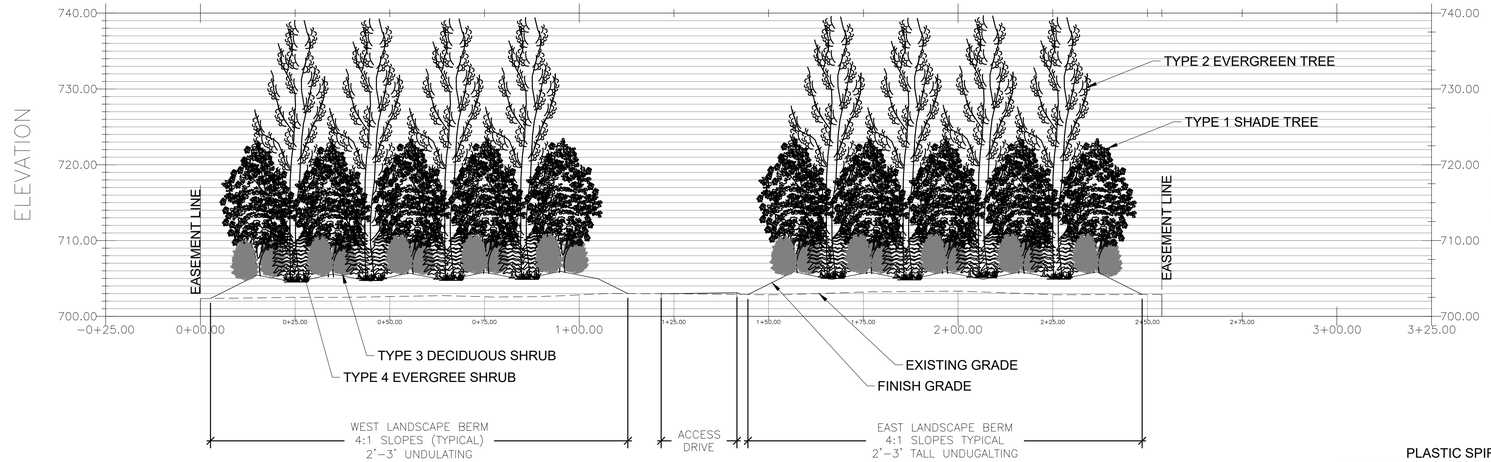


TYPE 1 - EASTERN RED BUD

TYPE 3 - CHOKEBERRY

TYPE 2 - EASTERN RED CEDAR

TYPE 4 - EASTERN ARBORVITAE



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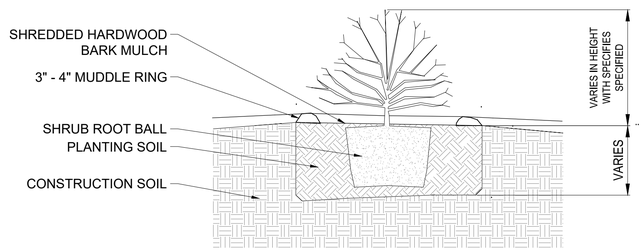
VERT. 1"=10'



NOTE:
1. ALL SHRUBS SHOULD BE PRUNED ONLY AFTER INSTALLATION AND WATERING-IN THE SHRUB. PRUNE TO GROWERS SPECIFICATIONS
2. STAKE ALL SHRUBS PER GROWERS SPECIFICATIONS
3. SHRUBS SHALL COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK - INCLUDING TREE PIT DEPTH AND WIDTH

2/23 BALLED & BURLAPPED DECIDUOUS & EVERGREEN SHRUB DETAIL
NOT TO SCALE

NOTE:
1. ALL TREES SHOULD BE PRUNED ONLY AFTER INSTALLATION AND WATERING-IN THE TREE. PRUNE TO GROWERS SPECIFICATIONS
2. STAKE ALL TREES PER GROWERS SPECIFICATIONS
3. TREES SHALL COMPLY WITH THE AMERICAN STANDARDS FOR NURSERY STOCK - INCLUDING TREE PIT DEPTH AND WIDTH

1/23 BALLED & BURLAPPED DECIDUOUS & EVERGREEN TREE DETAIL
NOT TO SCALE

0 20' 40'

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SHEET TITLE

LANDSCAPE PROFILE

SHEET NUMBER

23

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"

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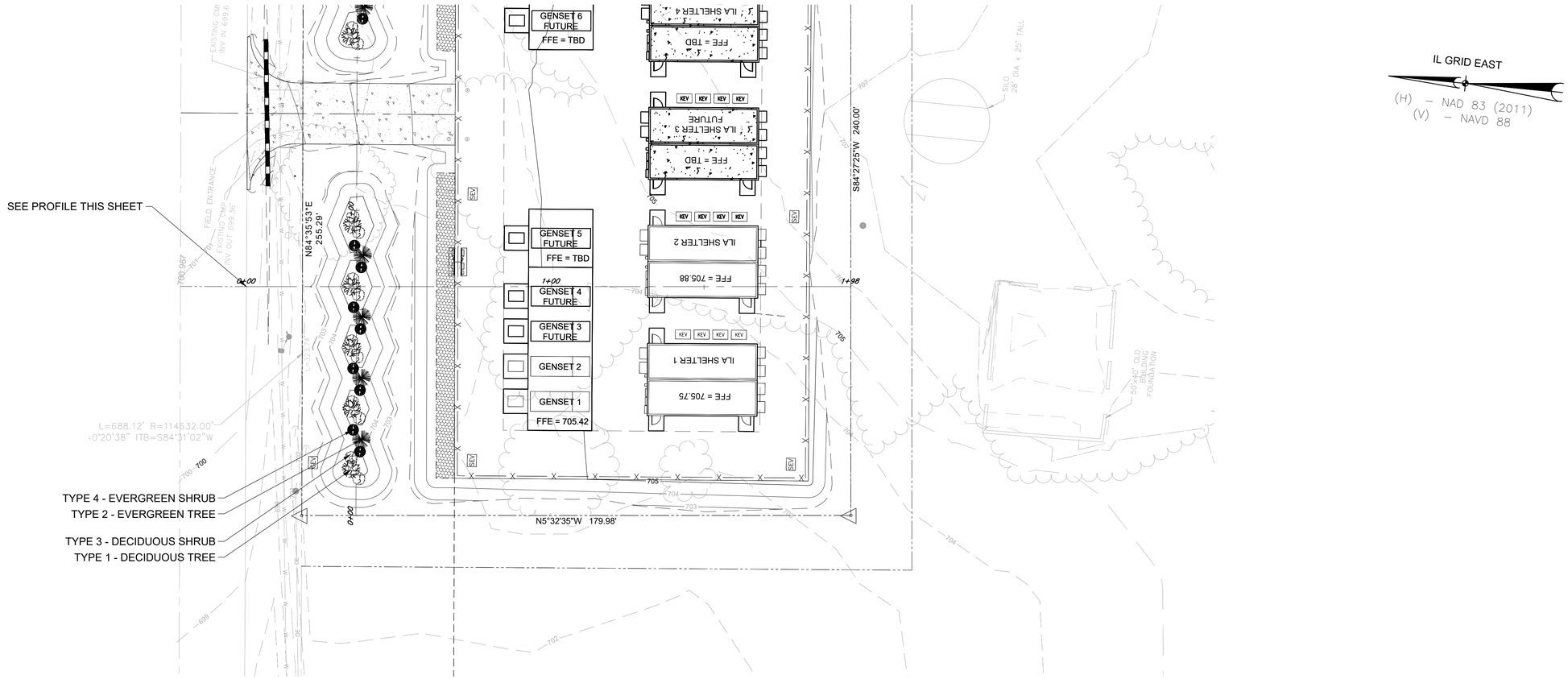

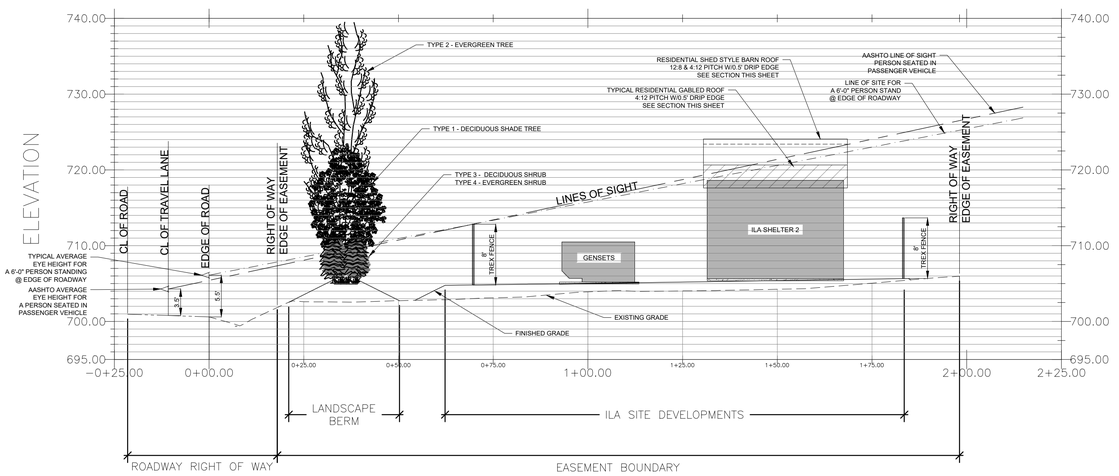

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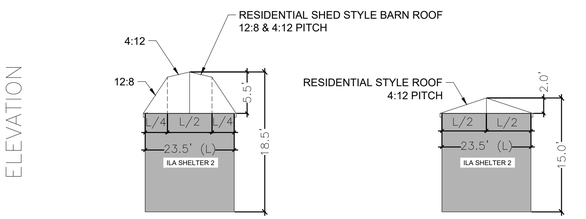

RESIDENTIAL SHED STYLE BARN ROOF 12:8 & 4:12 PITCH

RESIDENTIAL STYLE GABBLE ROOF 4:12 PITCH

1/24 ILA SHELTER ROOF STYLE SECTIONS
1" = 20' (H) & 1" = 10' (V)

0 20' 40'

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IL GRID EAST
(H) – NAD 83 (2011)
(V) – NAVD 88

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SHEET TITLE
SITE SECTION PROFILE

SHEET NUMBER
24

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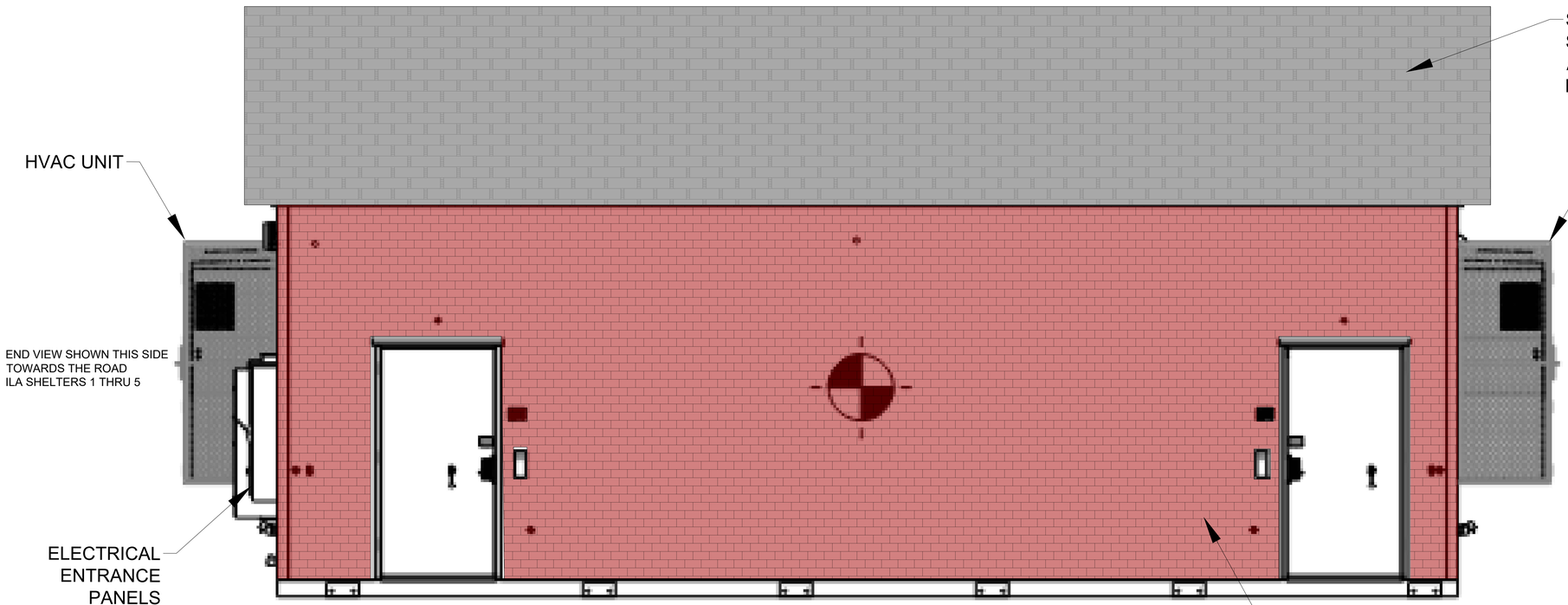
Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"



1/25 ILA SHELTER (6) SIDE VIEW WITH RESIDENTIAL GABBLE ROOF 4:12 PITCH
1" = 2'

NOTE:
1. SEE BUILDING PLANS FOR ILA SHELTER DIMENSIONS
2. ILA IS PRE-ENGINEERED AND FABRICATED WITHOUT ROOF AND SIDING SYSTEMS
3. RED BRICK STYLE SIDING TO BE APPLIED ONLY TO THE SIDE FACING THE ROAD
4. ROOFING AND SIDING SYSTEMS TO BE FIELD CONSTRUCTED

2/25 ILAS SHELTER (1 THRU 5) END VIEW WITH RESIDENTIAL GABBLE ROOF 4:12 PITCH
1" = 2'

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

AECOM

PROJECT

MMI - UNMANNED ILA UTILITY BUILDING ORD-LH1.5

PARCEL ID: 14-19-200-019
44W527 ROUTE 30
SUGAR GROVE, IL 60554

CLIENT

Middle Mile Infrastructure

CONSULTANT

AECOM Technical Services of South Carolina, Inc.
10 Patewood Drive, Suite 500
Greenville, SC 29615
License Number: F-0432
1-864-234-3069 tel
www.aecom.com

REGISTRATION

NOT FOR CONSTRUCTION

ISSUE/REVISION

I/R	DATE	DESCRIPTION

PROJECT NUMBER

60645418

SHEET TITLE

ILA 4-12 PITCH GABBLE ROOF

SHEET NUMBER

25

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"
Last saved by: STONEF (2026-01-09) Last Plotted: 2026-01-09
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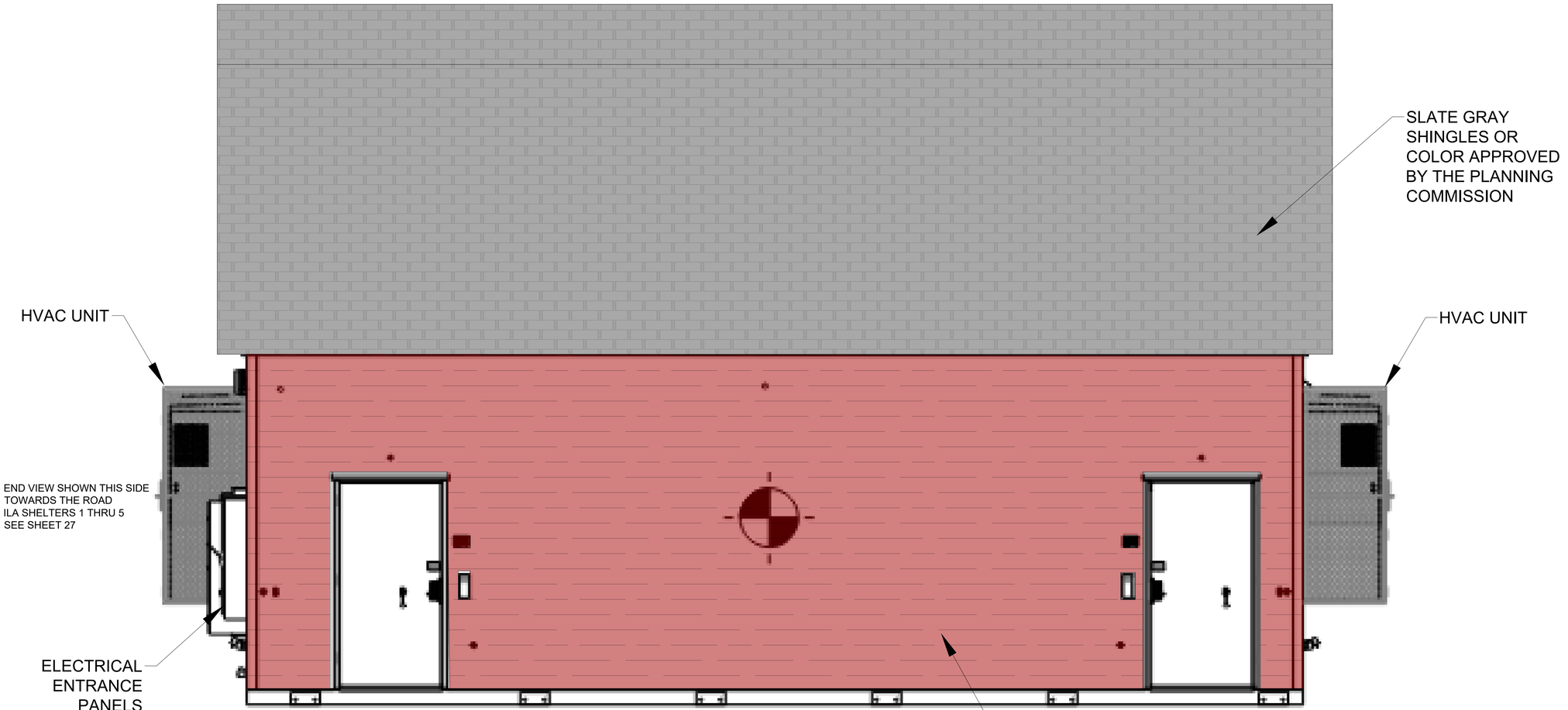

1/26 ILA SHELTER (6) SIDE VIEW WITH RESIDENTIAL SHED BARN ROOF
1" = 2'

NOTE:
1. SEE BUILDING PLANS FOR ILA SHELTER DIMENSIONS
2. ILA IS PRE-ENGINEERED AND FABRICATED WITHOUT ROOF AND SIDING SYSTEMS
3. SIDING TO BE APPLIED ONLY TO THE SIDE FACING THE ROAD
4. ROOFING AND SIDING SYSTEMS TO BE FIELD CONSTRUCTED

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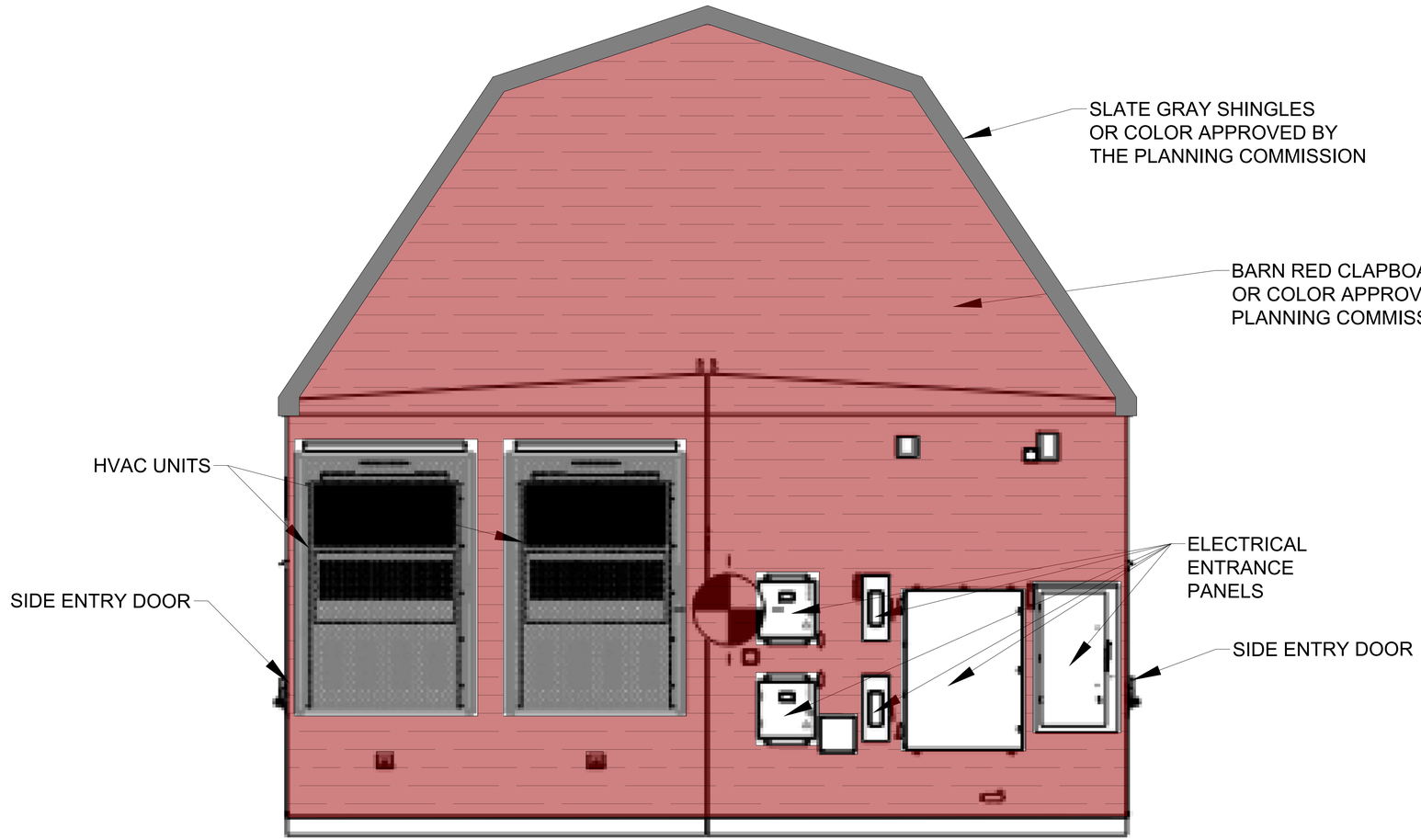
SHEET TITLE

ILA SHED BARN ROOF SIDE VIEW

SHEET NUMBER

26



1/27 ILA SHELTER (1 THRU 5) END VIEW WITH SHED BARN ROOF
1" = 2'

NOTE:
1. SEE BUILDING PLANS FOR ILA SHELTER DIMENSIONS
2. ILA IS PRE-ENGINEERED AND FABRICATED WITHOUT ROOF AND SIDING SYSTEMS
3. SIDING TO BE APPLIED ONLY TO THE SIDE FACING THE ROAD
4. ROOFING AND SIDING SYSTEMS TO BE FIELD CONSTRUCTED

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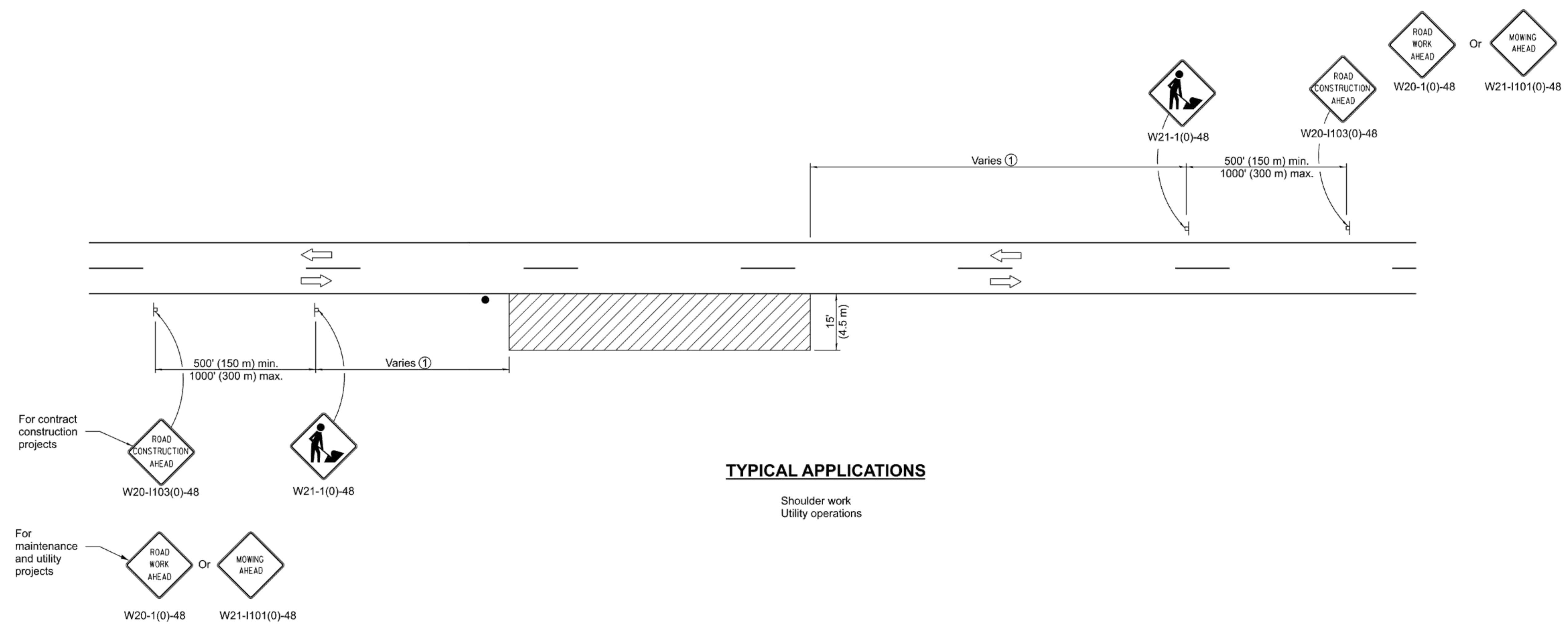
60645418

SHEET TITLE
ILA SHED BARN ROOF END VIEW

SHEET NUMBER
27

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"
Last saved by: STONEF (2026-01-09) Last Plotted: 2026-01-09
Filename: C:\USERS\STONEF\ONEDRIVE - AECOM\INDIGO - CITY METRO'S - DOCUMENTS\GENERAL\900_CAD\ORD-LH\ORD-LH1.5\04-CAD\03-SHEETS\ARTEMIS-H-SHT-C-LANDSCAPE.DWG



TYPICAL APPLICATIONS

Shoulder work
Utility operations

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment. workers or their activities require an intermittent or continuous moving operation on the shoulder, where the average speed is 1 mph (2 km/h) or less.

When the work operation does not exceed 60 minutes, traffic control may be according to Standard 701301.

All dimensions are in inches (millimeters) unless otherwise shown.

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but should not exceed ½ the length required for one normal working day's operation, or 4 miles (6.4 km) whichever is less.

SYMBOLS

Work area

Sign

Flagger with traffic control sign when required

Illinois Department of Transportation

APPROVED January 1, 2014
ENGINEER OF SAFETY ENGINEERING
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT
ISSUED 1-1-97

DATE	REVISIONS
1-1-14	Revised workers sign number to
	agree with current MUTCD.
1-1-13	Omitted text 'WORKERS' sign.

OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY

STANDARD 701011-04

1/28 MAINTENEANCE & PROTECTION OF TRAFFIC/WOARK ZONE TRAFFIC CONTROL (MTP/WZTC)
NOT TO SCALE

AECOM

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SHEET TITLE

IDOT MPT-WZTC DETAILS

SHEET NUMBER

28

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DATE OF ISSUE: 01/08/2026

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"

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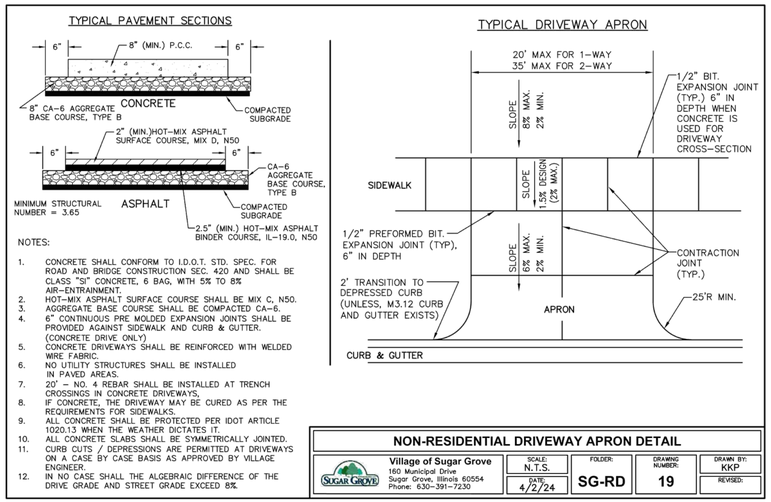

NON-RESIDENTIAL DRIVEWAY APRON DETAIL

Village of Sugar Grove 160 Municipal Drive Sugar Grove, Illinois 60554 Phone: 630-391-7230	SCALE: N.T.S.	FOLDER: SG-RD	DRAWING NUMBER: 19	DRAWN BY: KKP
	DATE: 4/2/24			REVISED:

1
29
VILLAGE OF SURAR GROVE NON-RESIDENTIAL DRIVEWAY APRON DETAIL
NOT TO SCALE

ISSUE FOR BID PLANS
DATE OF ISSUE: 01/08/2026

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SHEET TITLE

SUGAR GORVE DRIVEWAY DETAIL

SHEET NUMBER

29