



COUNTY OF MENDOCINO
DEPARTMENT OF PLANNING AND BUILDING SERVICES

860 NORTH BUSH STREET • UKIAH • CALIFORNIA • 95482
752 SOUTH FRANKLIN STREET • FT. BRAGG • CALIFORNIA • 95437

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www.mendocinocounty.org/pbs

November 26, 2025

Department of Transportation
Environmental Health -Fort Bragg
Building Inspection - Fort Bragg
Assessor

Mendocino County Farm Bureau
Air Quality Management
Resource Lands Protection Committee
Department of Forestry/ CalFire
-Land Use

Department of Fish and Wildlife
Cloverdale Rancheria
Redwood Valley Rancheria
Sherwood Valley Band of Pomo Indians
Redwood Coast Fire District

CASE#: AP_2025-0032

DATE FILED: 11/18/2025

OWNER: MENDOCINO REDWOOD COMPANY LLC

REQUEST: Administrative Permit for an eligible facilities request to install additional antennas and ground equipment at an existing wireless tower site. Initial, temporary development includes the addition of three antennas on the tower, resulting in no change in height, and the installation of a diesel generator, battery trailer, fuel tank, and equipment platform. Permanent development proposed includes the addition of 12 new antennas, bringing the tower height to 100 feet, and a new diesel generator and fuel tank. Once the permanent components have been completed, the temporary installations will be removed.

ENVIRONMENTAL DETERMINATION: Categorically Exempt

LOCATION: In the Coastal Zone, 5.75 miles east of Manchester town center, 1.0 mile east of the intersection of Mountain View Road (CR 510) and Miller Court (private), located at 36900 Mountain View Rd, Manchester; APN 127-190-10.

SUPERVISORIAL DISTRICT: 5

STAFF PLANNER: ROB FITZSIMMONS

RESPONSE DUE DATE: December 10, 2025

PROJECT INFORMATION CAN BE FOUND AT:

www.mendocinocounty.org

Select "Government" from the drop-down; then locate Planning and Building Services/Public Agency Referrals.

Mendocino County Planning & Building Services is soliciting your input, which will be used in staff analysis and forwarded to the appropriate public hearing. You are invited to comment on any aspect of the proposed project(s). Please convey any requirements or conditions your agency requires for project compliance to the project coordinator at the above address, or submit your comments by email to pbs@mendocinocounty.org. Please note the case number and name of the project coordinator with all correspondence to this department.

We have reviewed the above application and recommend the following (please check one):

- ☐ No comment at this time.
- ☐ Recommend conditional approval (attached).
- ☐ Applicant to submit additional information (attach items needed, or contact the applicant directly, copying Planning and Building Services in any correspondence you may have with the applicant)
- ☐ Recommend denial (Attach reasons for recommending denial).
- ☐ Recommend preparation of an Environmental Impact Report (attach reasons why an EIR should be required).
- ☐ Other comments (attach as necessary).

REVIEWED BY:

Signature _____ Department _____ Date _____

OWNER: Mendocino Redwood Company

APPLICANT: Verizon Wireless C/O Complete Wireless Consulting

REQUEST: Administrative Permit for an eligible facilities request to install additional antennas and ground equipment at an existing wireless tower site. Initial, temporary development includes the addition of three antennas on the tower, resulting in no change in height, and the installation of a diesel generator, battery trailer, fuel tank, and equipment platform. Permanent development proposed includes the addition of 12 new antennas, bringing the tower height to 100 feet, and a new diesel generator and fuel tank. Once the permanent components have been completed, the temporary installations will be removed.

LOCATION: In the Coastal Zone, 5.75 miles east of Manchester town center, 1.0 mile east of the intersection of Mountain View Road (CR 510) and Miller Court (private), located at 36900 Mountain View Rd, Manchester; APN 127-190-10.

APN: 133-220-06

PARCEL SIZE: 160± acres

GENERAL PLAN: Forest Land – FL

ZONING: Timberland Production – TPZ

EXISTING USES: Woodlands; Major Impact Services and Utilities (Wireless Tower)

DISTRICT: 5 (Williams)

	<u>ADJACENT GENERAL PLAN</u>	<u>ADJACENT ZONING</u>	<u>ADJACENT LOT SIZES</u>	<u>ADJACENT USES</u>
NORTH:	FL	TPZ	420± acres	Woodlands
EAST:	FL	TPZ	140± acres	Woodlands
WEST:	FL	TPZ	20± acres	Woodlands
SOUTH:	FL	TPZ	250± acres	Woodlands

<u>REFERRAL AGENCIES</u>		
<u>LOCAL</u>		
☒ Assessor’s Office	☒ Mendocino County Farm Bureau	☒ California Dept. of Fish & Wildlife
☒ Air Quality Management District	☒ Redwood Coast FPD	<u>TRIBAL</u>
☒ Building Division Fort Bragg	☒ Resource Lands Protection Committee	☒ Cloverdale Rancheria
☒ Environmental Health (EH)	<u>STATE</u>	☒ Redwood Valley Rancheria
☒ County Department of Transportation	☒ CALFIRE (Land Use)	☒ Sherwood Valley Band of Pomo Indians

ADDITIONAL INFORMATION:

Per the applicant’s project description, the ground equipment being proposed consists of a “temporary 30 kw diesel generator on a trailer and a temporary battery trailer,” to be replaced with a permanent “30kw standby diesel generator and an equipment cabinet,” all to be “placed within the existing wireless compound.” Elsewhere on the application, there is also a mention that “a temporary diesel fuel tank with a 500 gallon capacity is also being proposed.” However, the temporary Site Plan sheet A-1.1 seems to contradict this, showing a temporary diesel generator, battery, and equipment platform and cabinet immediately south of the existing compound, along and within the access driveway. The Project Request as included on this referral is what the County understands the project to be.

The installation of the permanent additions will render the tower 20 feet higher than it is currently, to a final height of 100 feet (note that application materials, and the previous permits #U 2-2004 and U_2015-0016, characterize the existing tower’s height as 80 feet, but the elevation sheet in the Site Plans show it as 85 feet – but regardless the proposed final tower height appears to be 100 feet).

The application materials indicate the project will be entirely reliant on onsite power generation. The applicant has declined to specify how this generation will occur, but from other application materials it appears to solely rely on onsite diesel generators.

Although the applicant has asserted this project is to be considered an “eligible facility per the Spectrum Act, given the discrepancies in the submitted materials it is not clear that this is a valid assertion. In particular, the temporary equipment proposed outside the existing compound on sheet A-1.1 of the site plans for the temporary component would seem to render at least that piece of the project ineligible for the federal streamlining provisions invoked.

ENVIRONMENTAL DATA

1. MAC:

GIS

N/A

2. FIRE HAZARD SEVERITY ZONE:

CALFIRE FRAP maps/GIS

High

3. FIRE RESPONSIBILITY AREA:

CALFIRE FRAP maps/GIS

State Responsibility Area (SRA)

4. FARMLAND CLASSIFICATION:

GIS

Grazing Land (G)

5. FLOOD ZONE CLASSIFICATION:

FEMA Flood Insurance Rate Maps (FIRM)

None

6. COASTAL GROUNDWATER RESOURCE AREA:

Coastal Groundwater Study/GIS

Critical Water Resources Bedrock

7. SOIL CLASSIFICATION:

Mendocino County Soils Study Eastern/Western Part

231 – Woodin-Yellowhound complex - 30-50% slopes

237 – Yellowhound-Kibesillah-Ornbaun

Complex – 30-50% slopes

8. PYGMY VEGETATION OR PYGMY CAPABLE SOIL:

LCP maps, Pygmy Soils Maps; GIS

No

9. WILLIAMSON ACT CONTRACT:

GIS/Mendocino County Assessor’s Office

No

10. TIMBER PRODUCTION ZONE:

GIS

Yes

11. WETLANDS CLASSIFICATION:

GIS

No

12. EARTHQUAKE FAULT ZONE:

Earthquake Fault Zone Maps; GIS

No

13. AIRPORT LAND USE PLANNING AREA:

Airport Land Use Plan; GIS

No

14. SUPERFUND/BROWNFIELD/HAZMAT SITE:

GIS; General Plan 3-11

No

15. NATURAL DIVERSITY DATABASE:

CA Dept. of Fish & Wildlife Rarefind Database/GIS

No

16. STATE FOREST/PARK/RECREATION AREA ADJACENT:

GIS; General Plan 3-10

No

17. LANDSLIDE HAZARD:

Hazards and Landslides Map; GIS; Policy RM-61; General Plan 4-44

No

18. WATER EFFICIENT LANDSCAPE REQUIRED:

Policy RM-7; General Plan 4-34

No

19. WILD AND SCENIC RIVER:

www.rivers.gov (Eel Only); GIS

No

20. SPECIFIC PLAN/SPECIAL PLAN AREA:

Various Adopted Specific Plan Areas; GIS

No

21. STATE CLEARINGHOUSE REQUIRED:

Policy

Calfire, CDFW

22. OAK WOODLAND AREA:

USDA

Yes

23. HARBOR DISTRICT:

Sec. 20.512

No



**PLANNING & BUILDING
SERVICES**

CASE NO:	_____
DATE FILED:	_____
FEE:	_____
RECEIPT NO:	_____
RECEIVED BY:	_____
<i>Office Use Only</i>	

APPLICATION FORM

APPLICANT:

Name: Verizon Wireless C/O Complete Wireless Consul Phone: (916) 247-3047
Mailing Address: 2009 V Street ATTN: Matt Moore
City: Sacramento State/Zip: CA 95834 Email: MMoore@completewireless.net

PROPERTY OWNER:

Name: US Cellular Phone: _____
Mailing Address: 8410 West Bryn Mawr Avenue
City: Chicago State/Zip: IL 60631 Email: paul.mason@uscellular.com

AGENT:

Name: Matt Moore Phone: 916-247-3047
Mailing Address: 2009 V Street
City: Sacramento State/Zip: CA/95818 Email: Mmoore@completewireless.net

ASSESSOR'S PARCEL NUMBER/S: 133-220-06-05

PROPERTY ADDRESS: 36900 Mountain View Road, Manchester, CA 95459

TYPE OF APPLICATION:

- | | | |
|---|---|--|
| ☒ Administrative Permit | ☐ General Plan Amendment | ☐ Use Permit – Cottage |
| ☐ Agricultural Preserve: New Contract | ☐ Land Division – Minor | ☐ Use Permit – Minor |
| ☐ Agricultural Preserve: Cancellation | ☐ Land Division – Major | ☐ Use Permit – Major |
| ☐ Agricultural Preserve: Rescind & ReEnter | ☐ Land Division – Parcel | ☐ Use Permit – Modification |
| ☐ Airport Land Use | ☐ Land Division – Re-Subdivision | ☐ Variance |
| ☐ Development Review | ☐ Modification of Conditions | ☐ Other |
| ☐ Exception | ☐ Reversion to Acreage | |
| ☐ Flood Hazard Development Permit | ☐ Rezoning | |

I certify that the information submitted with this application is true and accurate.

11/25/2025

Please see attached LOA

11/25/25

Signature of Applicant/Agent

Date

Signature of Owner

Date

SITE AND PROJECT DESCRIPTION QUESTIONNAIRE

The purpose of this questionnaire is to relate information concerning your application to the Department of Planning and Building Services and other agencies who will be reviewing your project proposal. Please remember that the clearer picture that you give us of your project and the site, the easier it will be to promptly process your application. Please answer all questions. Those questions which do not pertain to your project please indicate "Not applicable" or "N/A".

THE PROJECT

1. Describe your project. Include secondary improvements such as wells, septic systems, grading, vegetation removal, roads, etc. If the proposal is for cancellation of a Williamson Act contract, please specify a proposed alternative use for the land.

This is a proposal to install three (3) temporary antennas and the necessary ground on an existing 80' tall wireless facility that is located at the above-referenced address. The antennas will be placed at a centerline of 60' meaning that the overall height of the tower will not be increased, and the necessary ground equipment, consisting of a temporary 30kw diesel generator on a trailer and a temporary battery trailer, will be placed within the existing wireless compound. Please note that this is a temporary proposal intended to keep the Verizon Wireless network on-air while a permanent installation at this location is being permitted. Once the permanent installation is approved by County Planning and Building, the temporary equipment will be removed from the site, at which point the tower will be extended by 20' for the purpose of installing 12 panel antennas. Additionally, Verizon will install a 30kw standby diesel generator and an equipment cabinet within the existing wireless compound.

2. Structures/Lot Coverage	NO. OF UNITS		SQUARE FOOTAGE		
	EXISTING	PROPOSED	EXISTING	PROPOSED	TOTAL
☐ Single Family ☐ Mobile Home ☐ Duplex ☐ Multifamily ☒ Other: ☐ Other:					No increase to the existing lease area is proposed.
GRAND TOTAL (Equal to gross area of Parcel):					

3. Is the project commercial, industrial, or institutional? If yes, complete item 3. If no, skip to item 4.

Estimated No. of Employees per shift: _____

Estimated No. of shifts per day: _____

Type of loading facilities proposed: _____

4. Will the project be phased? (Work being done over separate periods of time)

☒ **NO** ☐ **YES** If yes, explain your plans for phasing:

5. Will vegetation be removed on areas other than the building sites and roads?

☒ **NO** ☐ **YES** If yes, explain:

6. Will the project involve the use or disposal of potentially hazardous materials such as toxic substances, flammables, or explosives?

☐ **NO** ☒ **YES** If yes, explain:

A temporary diesel fuel tank with a 500 gallon capacity is also being proposed.

7. How much off-street parking will be provided?

Number

Size

No. of covered spaces:

No. of uncovered spaces:

No. of standard spaces:

No. of accessible spaces:

Existing no. of spaces:

Proposed additional spaces:

Total:

8. Is any road construction or grading planned? If yes, grading and drainage plans may be required.

☒ **NO** ☐ **YES** Also, please describe the terrain to be traversed. (e.g., steep, moderate slope, flat, etc.)

9. For grading or road construction, complete the following:

Amount of cut: _____ cubic yards

Amount of fill: _____ cubic yards

Max. height of fill slope: _____ feet

Max. height of cut slope: _____ feet

Amount of import/export: _____ cubic yards

Location of borrow or disposal site: _____

10. Does the project involve sand removal, mining or gravel extraction? If yes, detailed extraction, reclamation and monitoring plans may be required.

☒ NO ☐ YES

11. Will the proposed development convert land currently or previously used for agriculture to another use?

☒ NO ☐ YES

12. Will the development provide public or private recreation opportunities?

☒ NO ☐ YES If yes, explain how:

13. Is the proposed development visible from State Route 1 or other scenic route?

☒ NO ☐ YES

14. Is the proposed development visible from a park, beach or other recreational area?

☒ NO ☐ YES

15. Does the development involve diking, filling, dredging or placing structures in open coastal water, wetlands, estuaries or lakes?

Diking: ☒ NO ☐ YES

Filling: ☐ NO ☐ YES

Dredging: ☐ NO ☐ YES

Structures: ☐ Open Coastal Waters ☐ Wetlands ☐ Estuaries ☐ Lakes

If so, what is the amount of material to be dredged/filled?: _____ cubic yards

Location of dredged material disposal site?: _____

Has a U.S. Army Corps of Engineers permit been applied for? ☐ NO ☐ YES

16. Will there be any exterior lighting?

☒ NO ☐ YES If yes, describe below and identify the location of all exterior lighting on the plot and building plans.

17. Utilities will be supplied to the site as follows:

Electricity: ☐ Utility Company (service exists to parcel)

☐ Utility Company (requires extension of service to site): _____ feet _____ miles

☒ On Site Generation – Specify:

Gas: ☐ Utility Company/Tank

☐ On Site Generation – Specify:

☒ None

Telephone: ☐ NO ☐ YES

18. What will be the method of sewage disposal?

- ☐ Community Sewage System (specify supplier): _____
- ☐ Septic Tank
- ☐ Other (specify): _____

19. What will be the domestic water source:

- ☐ Community Water System (specify supplier): _____
- ☐ Well
- ☐ Spring
- ☐ Other (specify): _____

20. Are there any associated projects and/or adjacent properties under your ownership?

- ☒ NO ☐ YES If yes, list below (Assessor’s Parcel Number, address, etc.)

21. List and describe any other related permits and other public approval required for this project, including those required by other County departments, city, regional, State and Federal agencies:

Building Permit approval will also be required.

22. Describe the location of the site in terms of readily identifiable landmarks: (e.g., mailboxes, mile posts, street intersections, etc.)

23. Are there existing structures on the property? If yes and the proposal is for a subdivision, describe below and identify the use of each structure on the plot plan or tentative map.

- ☐ NO ☒ YES

24. Will any existing structure be demolished or removed? If yes, describe the type of development to be demolished or removed, including the relocation site, if applicable.

- ☒ NO ☐ YES

25. What is the maximum height of all structures?

Existing: 80' _____ feet
Proposed: 80' _____ feet

26. What is the gross floor areas of all structures, including covered parking and accessory buildings?

Existing: _____ square feet
Proposed: _____ square feet

27. What is the total lot area within property lines?

Total Lot Area: 160 _____ ☒ acres ☐ square feet

28. Briefly describe the project site as it exists before the project, including information on existing structures and their uses, slopes, soil stability, plants and animals, and any cultural, historical or scenic aspects. Attach any photographs of the site that you feel would be helpful:

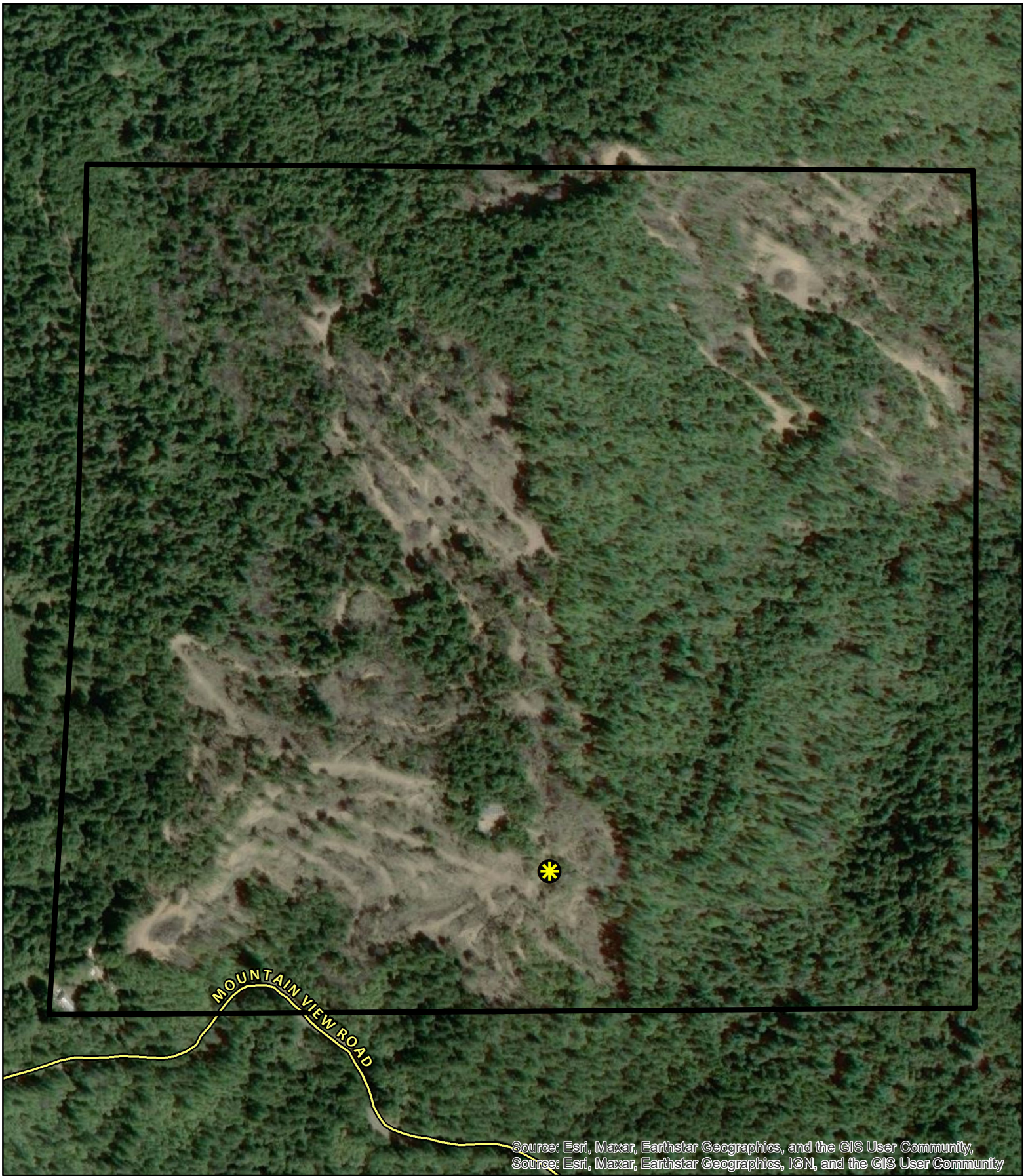
On-site conditions will not be impacted by this proposal.

29. Briefly describe the surrounding properties, including information on plants, animals and any cultural, historic or scenic aspects. Indicate the type of land use (use chart below) and its general intensity. Attach any photographs of the vicinity that you feel would be helpful.

Surrounding properties are all heavily forested an fall within the Timber Production Zone.

30. Indicate the surrounding land uses:

	Vacant	Residential	Agriculture	Commercial	Industrial	Public Facility	Timberland	Other
North:	☐	☐	☐	☐	☐	☐	☐	☒
East:	☐	☐	☐	☐	☐	☐	☐	☒
South:	☐	☐	☐	☐	☐	☐	☐	☒
West:	☐	☐	☐	☐	☐	☐	☐	☒



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community,
Source: Esri, Maxar, Earthstar Geographics, IGN, and the GIS User Community

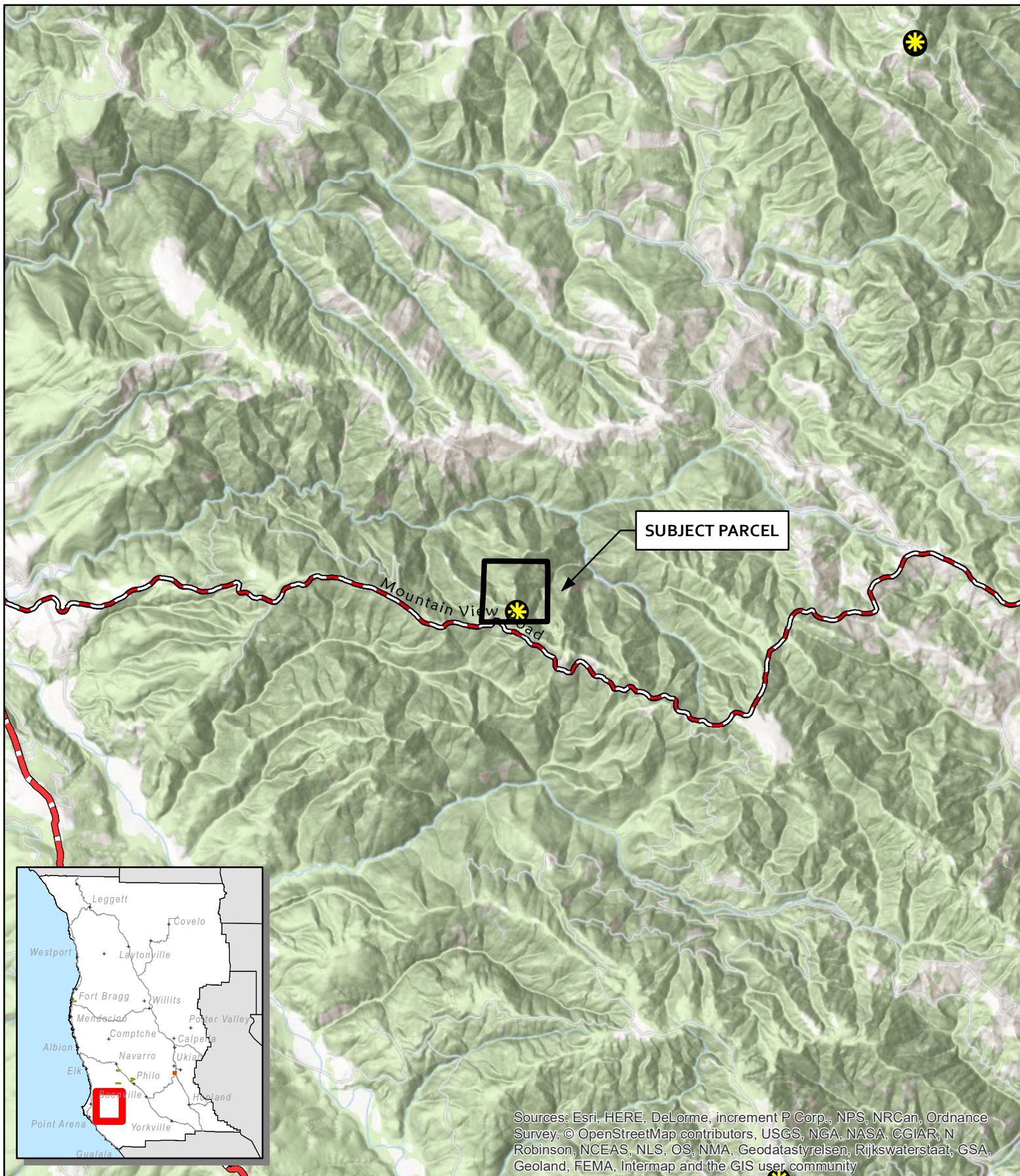
CASE: AP 2025-0032
OWNER: Verizon Wireless
APN: 133-220-06-05
APLCT: US Cellular
AGENT: Matt Moore
ADDRESS: 36900 Mountain View Rd.

 Public Roads
 Approved Wireless Sites

0 205 410 Feet
0 0.035 0.07 Miles
1:4,517.99
N
W E
S

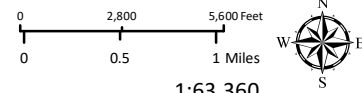
AERIAL IMAGERY

THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES



CASE: AP 2025-0032
OWNER: Verizon Wireless
APN: 133-220-06-05
APLCT: US Cellular
AGENT: Matt Moore
ADDRESS: 36900 Mountain View Rd.

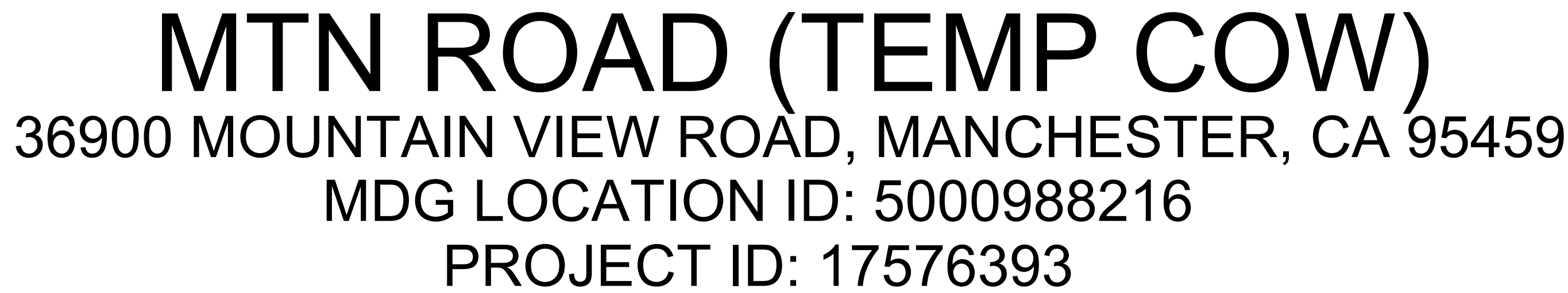
-  Coastal Zone Boundary
-  Major Roads
-  Approved Wireless Sites



1:63,360

LOCATION

**THIS MAP AND DATA ARE PROVIDED WITHOUT WARRANTY OF ANY KIND.
DO NOT USE THIS MAP TO DETERMINE LEGAL PROPERTY BOUNDARIES**



MDG LOCATION ID:	5000988216
PROJECT ID:	17576393
DRAWN BY:	SEAD
CHECKED BY:	N. GEORGE
APPROVED BY:	-

Licensee:

PRELIMINARY:
NOT FOR
CONSTRUCTION

KEVIN R. SORENSEN
S4469

IT IS A VIOLATION OF LAW FOR ANY PERSON,
UNLESS THEY ARE ACTING UNDER THE
DIRECTION OF A LICENSED PROFESSIONAL
ENGINEER, TO ALTER THIS DOCUMENT.

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:
T-1.1

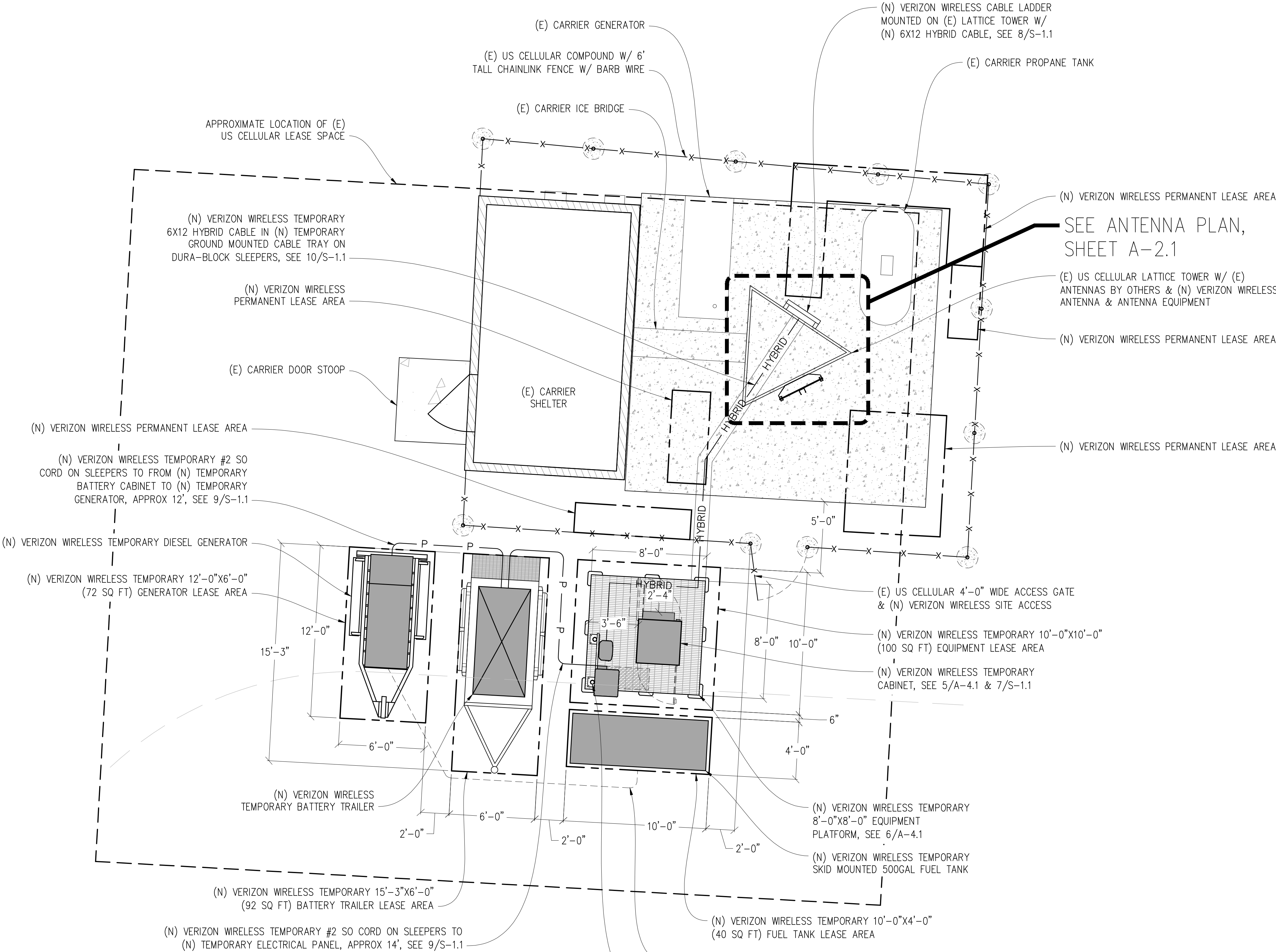
PROJECT DESCRIPTION		VICINITY MAP		CODE COMPLIANCE	
A (N) VERIZON WIRELESS TEMPORARY COLOCATION TO AN (E) UNMANNED US CELLULAR TELECOMMUNICATION FACILITY CONSISTING OF INSTALLING: (N) VERIZON WIRELESS TEMPORARY 8'-0"x8'-0" EQUIPMENT PLATFORM (N) VERIZON WIRELESS TEMPORARY GENERATOR & FUEL TANK (N) VERIZON WIRELESS TEMPORARY BATTERY TRAILER (3) (N) VERIZON WIRELESS TEMPORARY ANTENNAS ON (E) LATTICE TOWER (3) (N) VERIZON WIRELESS TEMPORARY RRH UNITS @ ANTENNAS (N) VERIZON WIRELESS TEMPORARY SURGE SUPPRESSOR @ ANTENNAS (N) VERIZON WIRELESS TEMPORARY SURGE SUPPRESSOR @ EQUIPMENT (N) TEMPORARY STARLINK ANTENNA				ALL WORK & MATERIALS SHALL BE PERFORMED & INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES: 2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, VOLUME 1&2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R. 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS) 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. ANSI/EIA-TIA-222-H ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS <u>DISABLED ACCESS REQUIREMENTS</u> THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 11B-203.5	
PROJECT INFORMATION				SHEET INDEX	
SITE NAME:	MTN ROAD	PROPERTY OWNER:	MENDOCINO REDWOOD COMPANY PO BOX 996 UKIAH, CA 95482	SHEET	DESCRIPTION
MDG LOCATION ID:	5000968102				REV
COUNTY:	MENDOCINO COUNTY	APPLICANT:	VERIZON WIRELESS 2770 SHADELANDS DR, BLDG 11 WALNUT CREEK, CA 94598	T-1.1	TITLE SHEET
JURISDICTION:	MENDOCINO COUNTY			A-1.1	OVERALL SITE PLAN
APN:	133-220-06-05	TOWER OWNER:	US CELLULAR 8410 WEST BRYN MAWR AVE CHICAGO, IL 60631	A-2.1	ANTENNA PLAN
SITE ADDRESS:	36900 MOUNTAIN VIEW ROAD MANCHESTER, CA 95459	SITE ACQUISITION COMPANY:	COMPLETE WIRELESS CONSULTING 2009 V STREET SACRAMENTO, CA 95818	A-3.1	ELEVATIONS
CURRENT ZONING:	TPZ (TIMBER PRODUCTION ZONE)			A-4.1	DETAILS
CONSTRUCTION TYPE:	V-B	LEASING CONTACT:	ATTN: KIM LE (916) 747-2314 KLE@COMPLETEWIRELESS.NET	S-1.1	STRUCTURAL DETAILS
OCCUPANCY TYPE:	U (UNMANNED COMMUNICATIONS FACILITY)			E-1.1	ELECTRICAL PLAN
POWER:	PG&E	ZONING CONTACT:	ATTN: MATTHEW MOORE (916)-247-3047 MMOORE@COMPLETEWIRELESS.NET	E-1.2	GROUNDING PLAN, NOTES & DETAILS
LATITUDE:	N 38° 57' 23.4" NAD 83 N 38.956507° NAD 83				
LONGITUDE:	W 123° 34' 47.6" NAD 83 W 123.579899° NAD 83	CONSTRUCTION CONTACT:	ATTN: JOSH JORDAN (916) 704-0897 JOSH.JORDAN@EPICWIRELESS.NET		
GROUND ELEVATION:	2270' AMSL				

PROJECT GENERAL NOTES

- THIS FACILITY IS AN UNOCCUPIED WIRELESS TELECOMMUNICATION FACILITY.
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE.
- THE SCOPE OF WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR PERMIT FEES, AND TO OBTAIN SAID PERMITS AND TO COORDINATE INSPECTIONS.
- THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL ALSO COORDINATE ALL PORTIONS OF THE WORK UNDER THE CONTRACT; INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
- KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- THE CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
- SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES SHOWN HEREON AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.
- THE CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.
- WHERE APPLICABLE, CONTRACTOR SHALL PROVIDE SEPARATE PLANS, SPECIFICATIONS, FEES AND PERMITS FOR ANY REVISION TO ANY FIRE SPRINKLER AND/OR ALARM SYSTEM ON THE PREMISES AS MAY BE NEEDED TO COMPLETE THE WORK DEPICTED HEREIN, USING A LICENSED SUBCONTRACTOR FOR ALL SUCH WORK.

CONSTRUCTION NOTES

- EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED, MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
- THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2022 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2022 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
- ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
- IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
- ALL WEATHER PROOFING, INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
- ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
- CONTRACTOR SHALL ENSURE ALL ROOF AREAS HAVE POSITIVE SLOPE TO ALL EXISTING ROOF DRAINS. PROVIDE ADDITIONAL CRICKETS OR BUILD UP ROOFING AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AROUND ALL NEW CONSTRUCTION INCLUDING ANY CURBS, SLEEPERS, SUPPORT BASES, ETC.



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(N) TEMPORARY RF SCHEDULE (ANTENNA MODELS SUBJECT TO CHANGE)

SECTOR		ANTENNA MODEL NO.	AZIMUTH	CENTERLINE	RRU NO'S & MODEL #	# OF HYBRID CABLES	LENGTH OF CABLES	SURGE SUPPRESSOR
A L B H A	A1	ND868-5C_V1-OP	15°	±60'-0"	(1) 4490	(1) 6x12	±92'	(1) 6627
	A2	-	-	-	-	-	-	-
	A3	-	-	-	-	-	-	-
B E T A	B1	ND868-5C_V1-OP	120°	±60'-0"	(1) 4490	-	-	-
	B2	-	-	-	-	-	-	-
	B3	-	-	-	-	-	-	-
G A M M A	C1	ND868-5C_V1-OP	270°	±60'-0"	(1) 4490	-	-	-
	C2	-	-	-	-	-	-	-
	C3	-	-	-	-	-	-	-

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36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:



MDG LOCATION ID: 5000988216

PROJECT ID: 17576393

DRAWN BY: SEAD

CHECKED BY: N. GEORGE

APPROVED BY: -

ISSUE STATUS

0	09/25/25	CD 90%	S.D.
REV	DATE	DESCRIPTION	CAD

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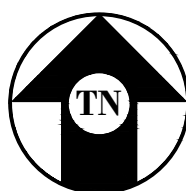
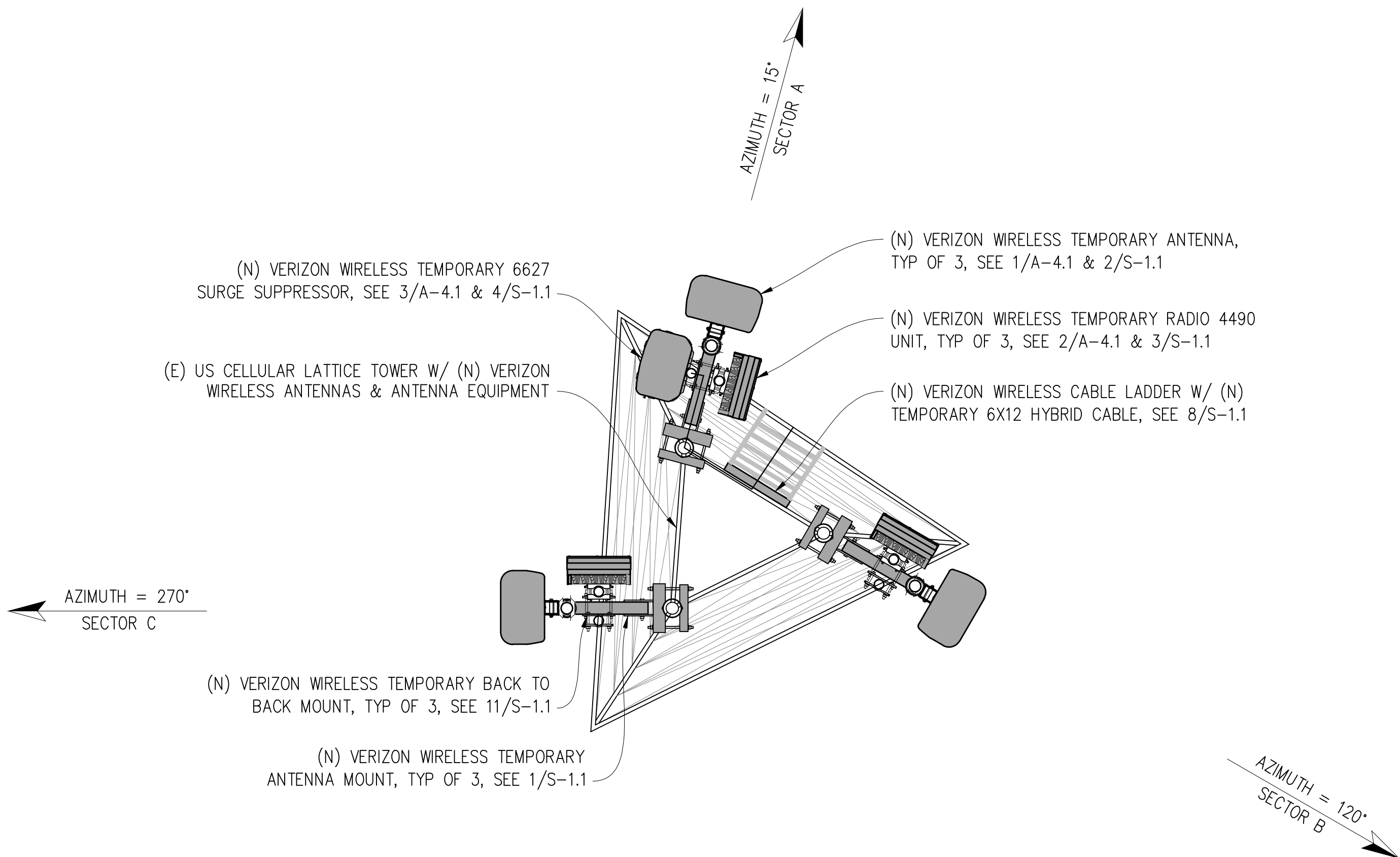
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Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941
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ANTENNA PLAN

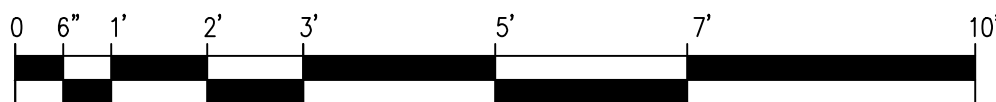
SHEET NUMBER:

A-2.1



ANTENNA PLAN

1/2"=1'-0"



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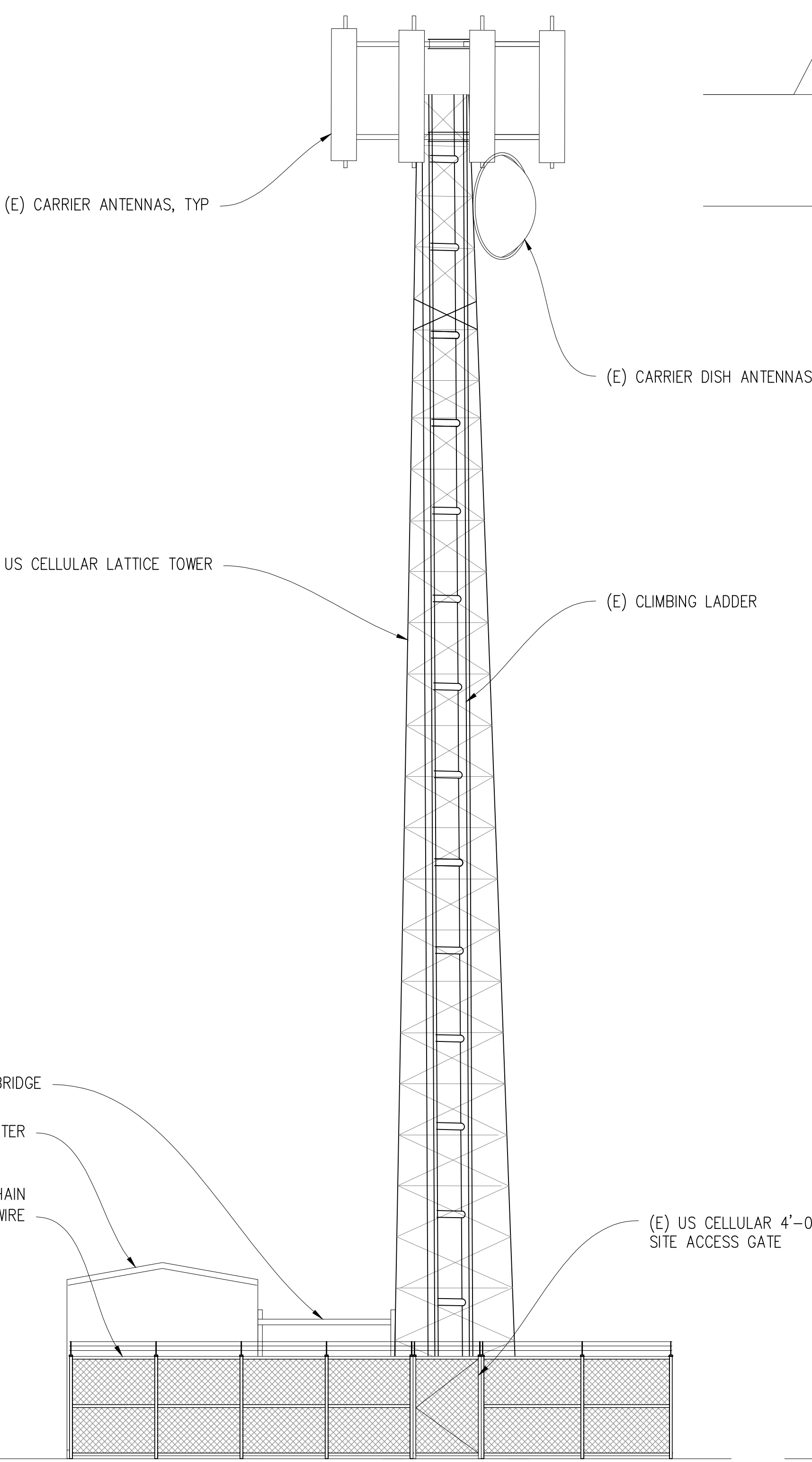
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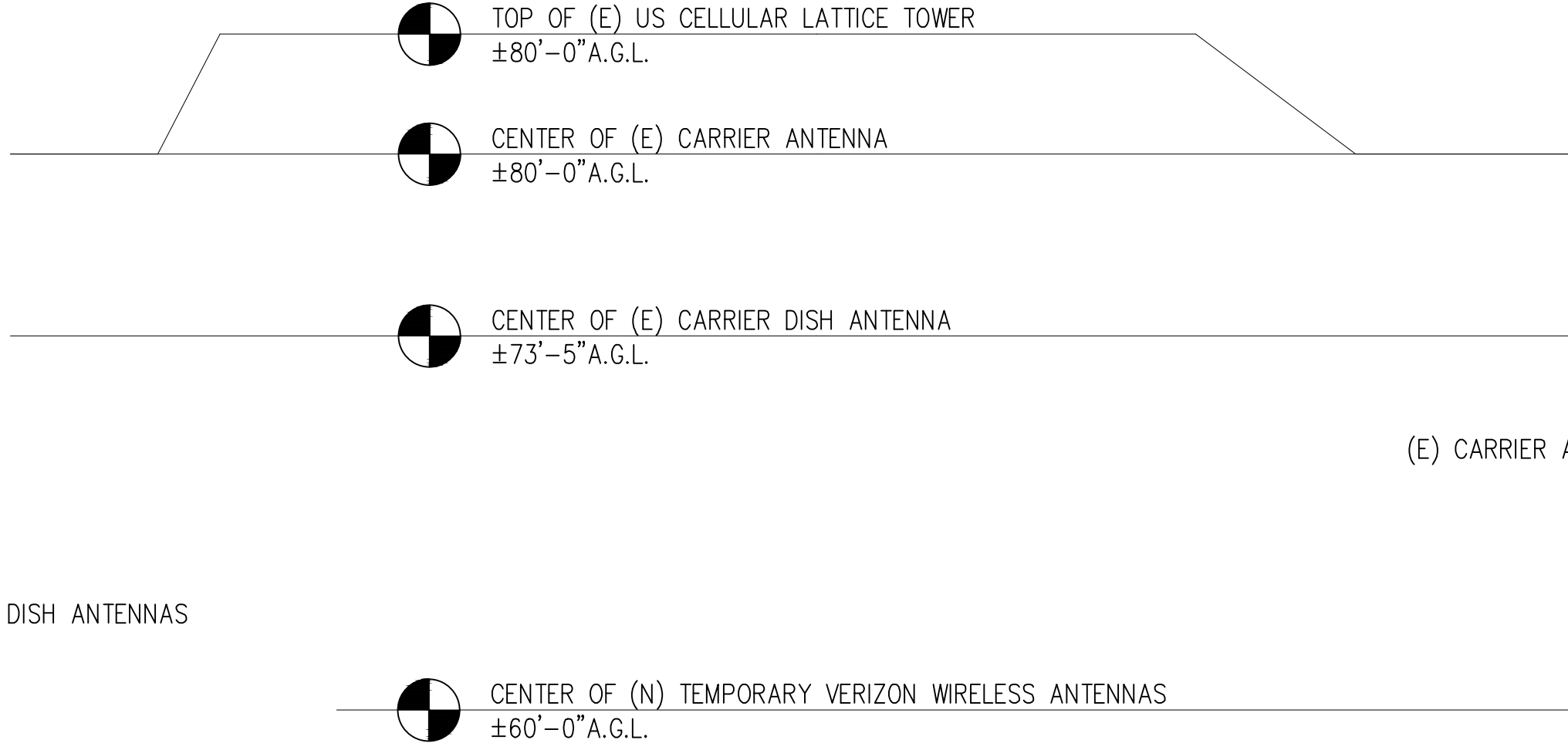
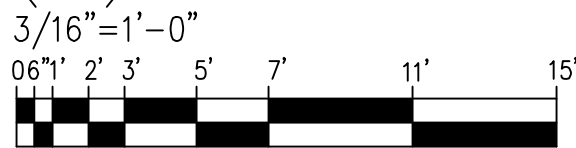
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SHEET NUMBER:

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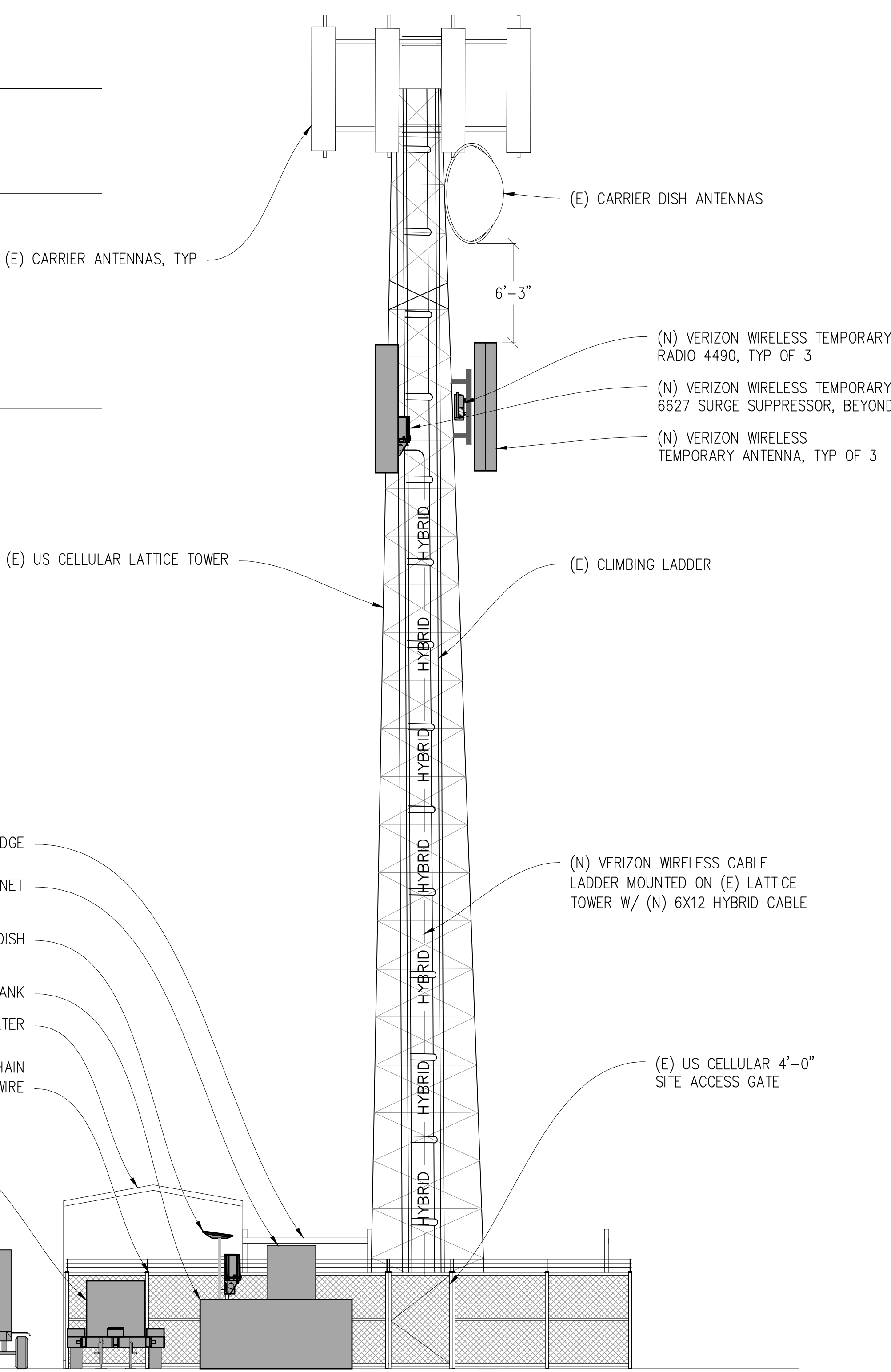
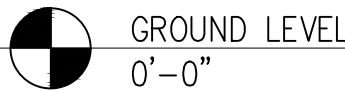


(E) SOUTH ELEVATION

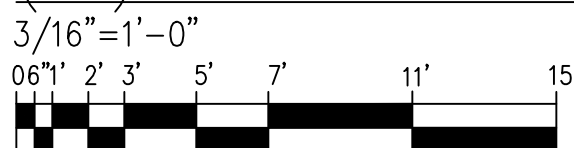


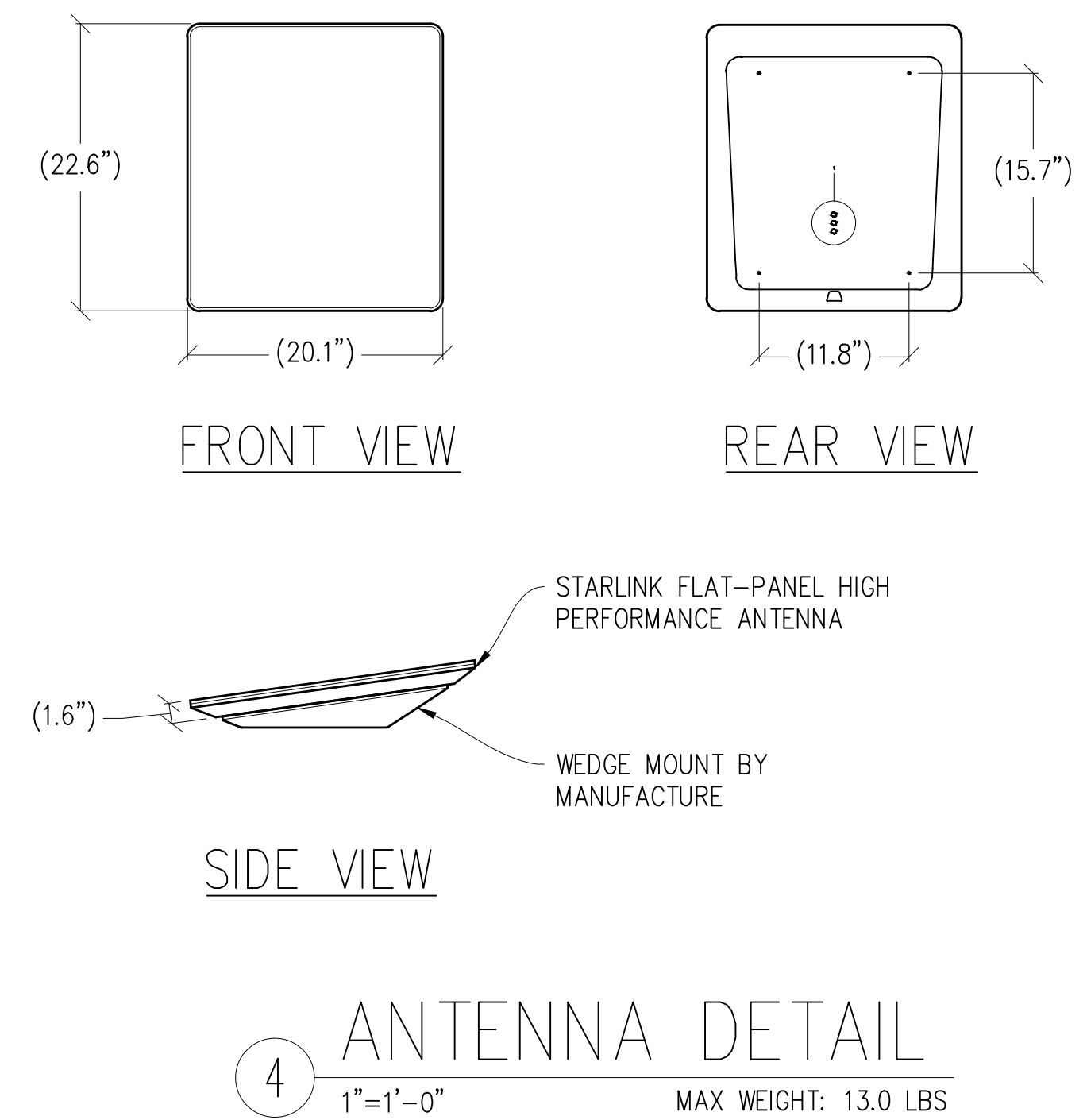
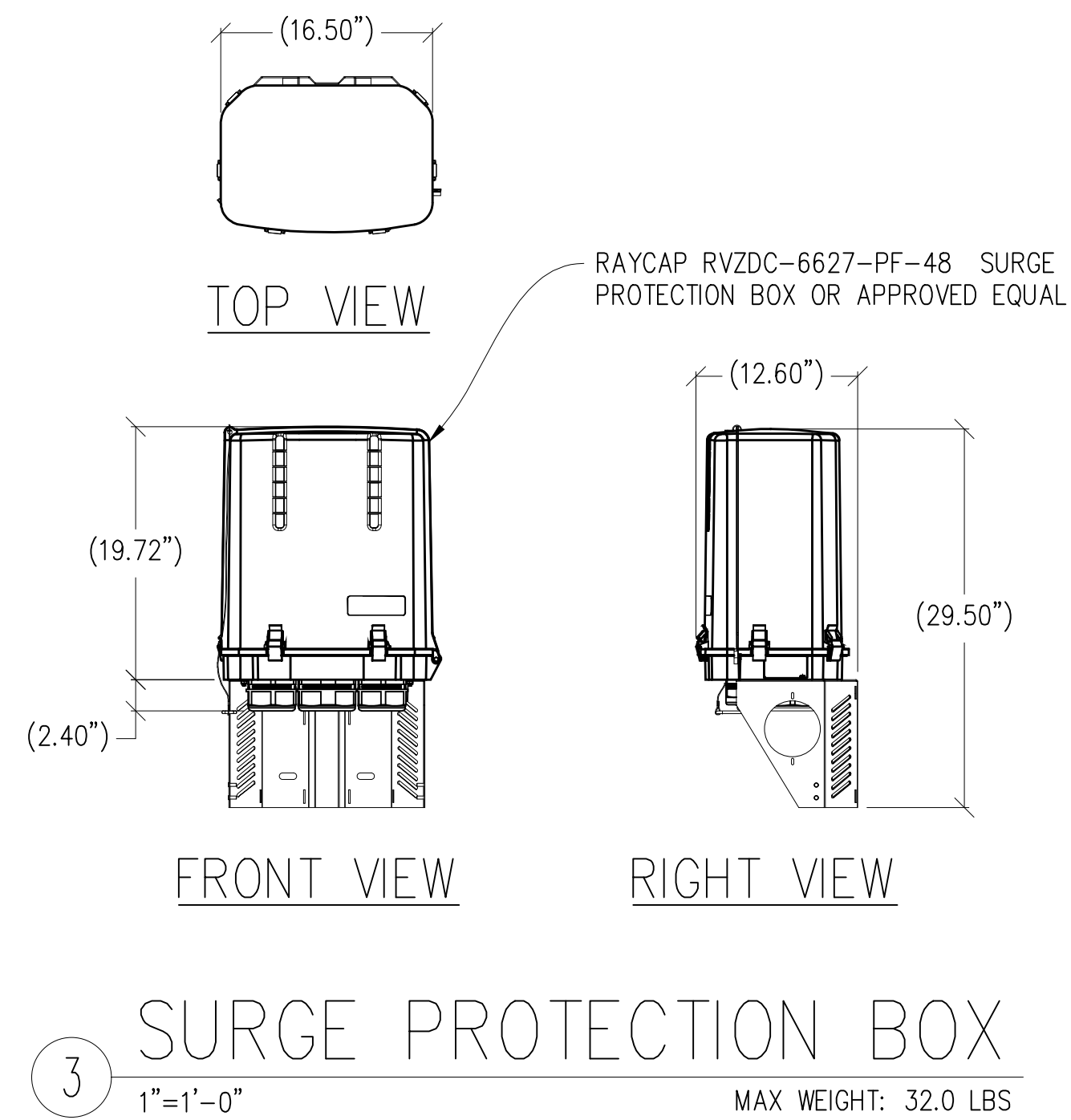
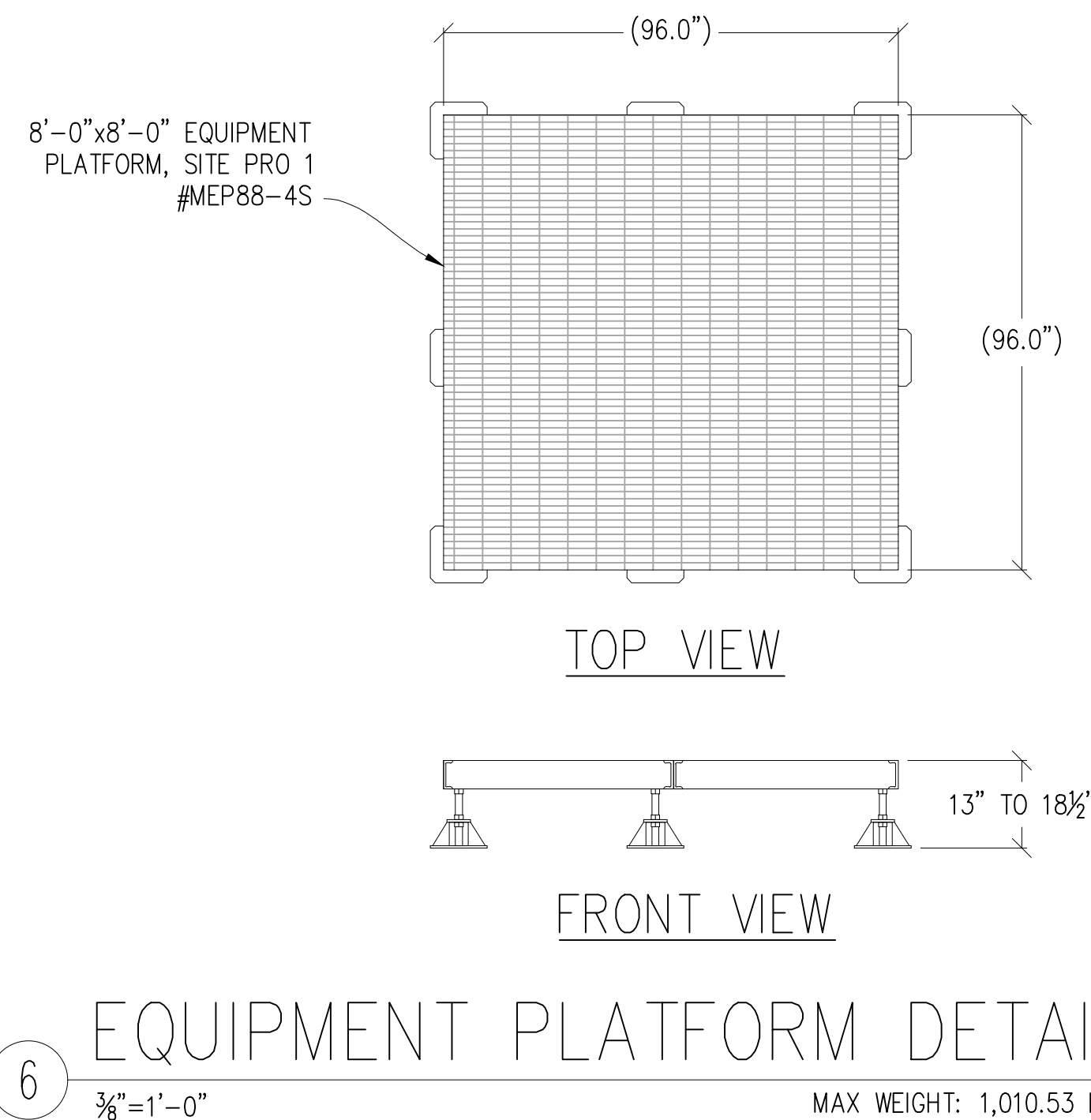
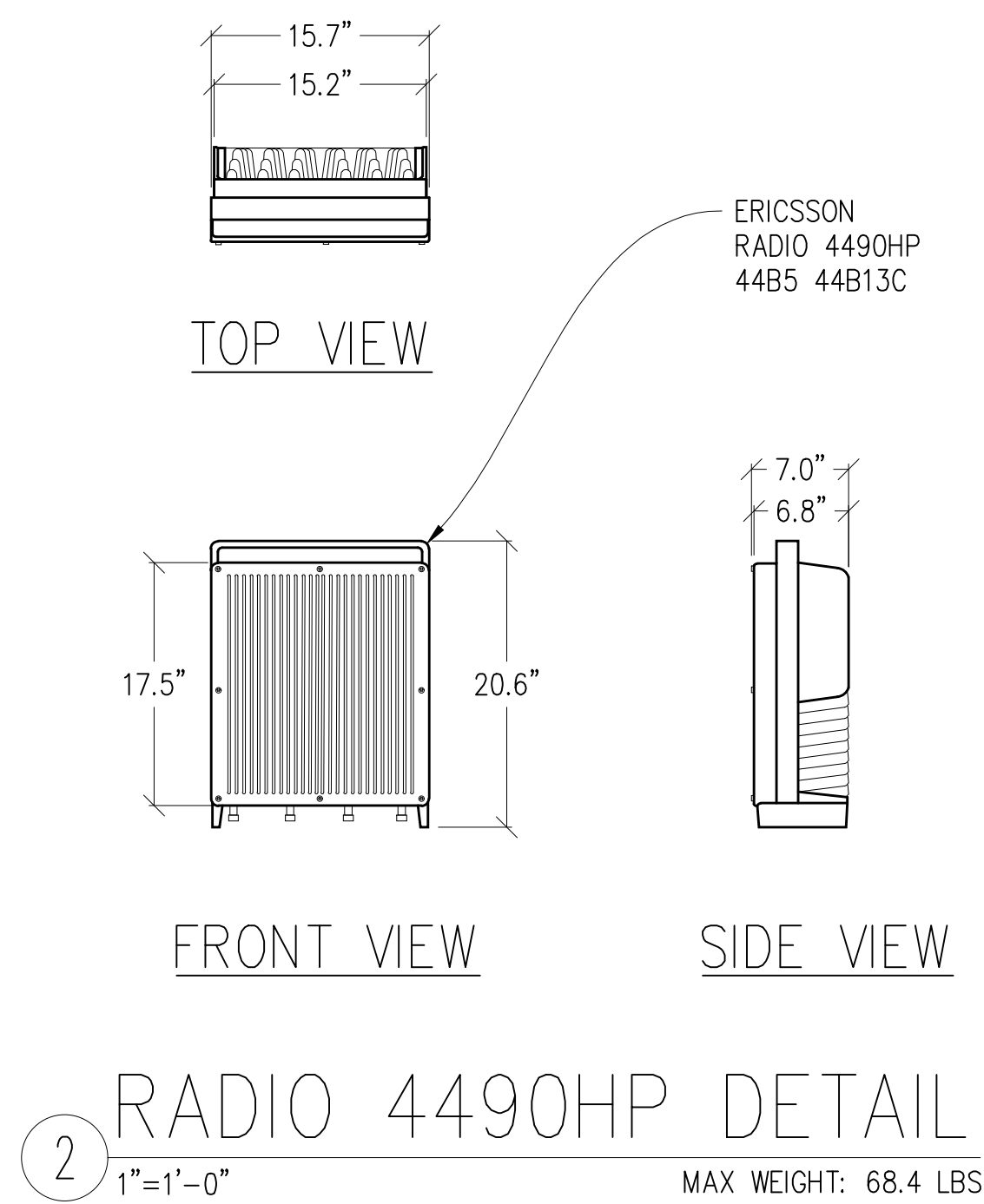
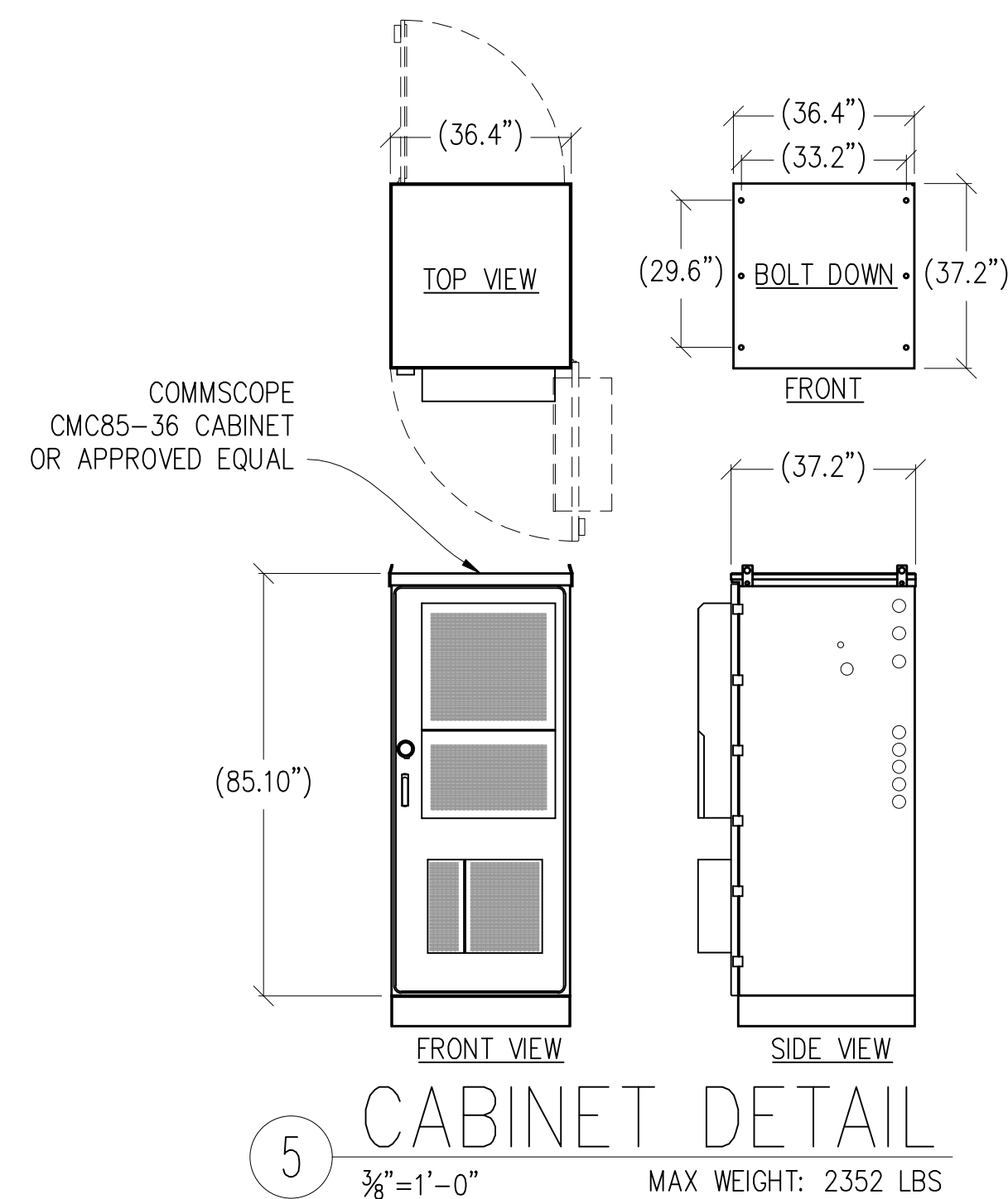
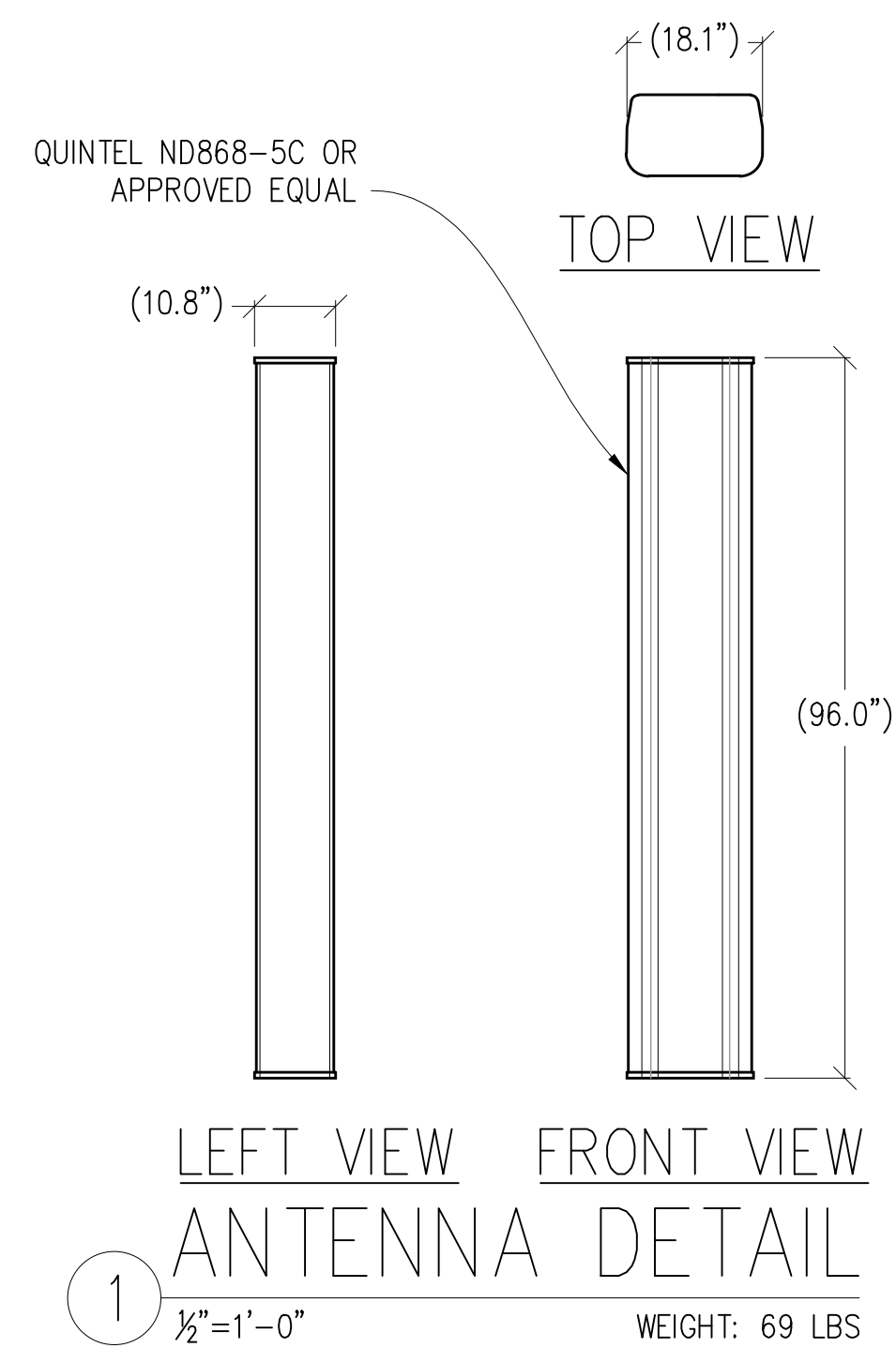
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(N) SOUTH ELEVATION





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Vendor:



MDG LOCATION ID: 5000988216

PROJECT ID:	17576393
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DRAWN BY: SEAD

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APPROVED BY: -

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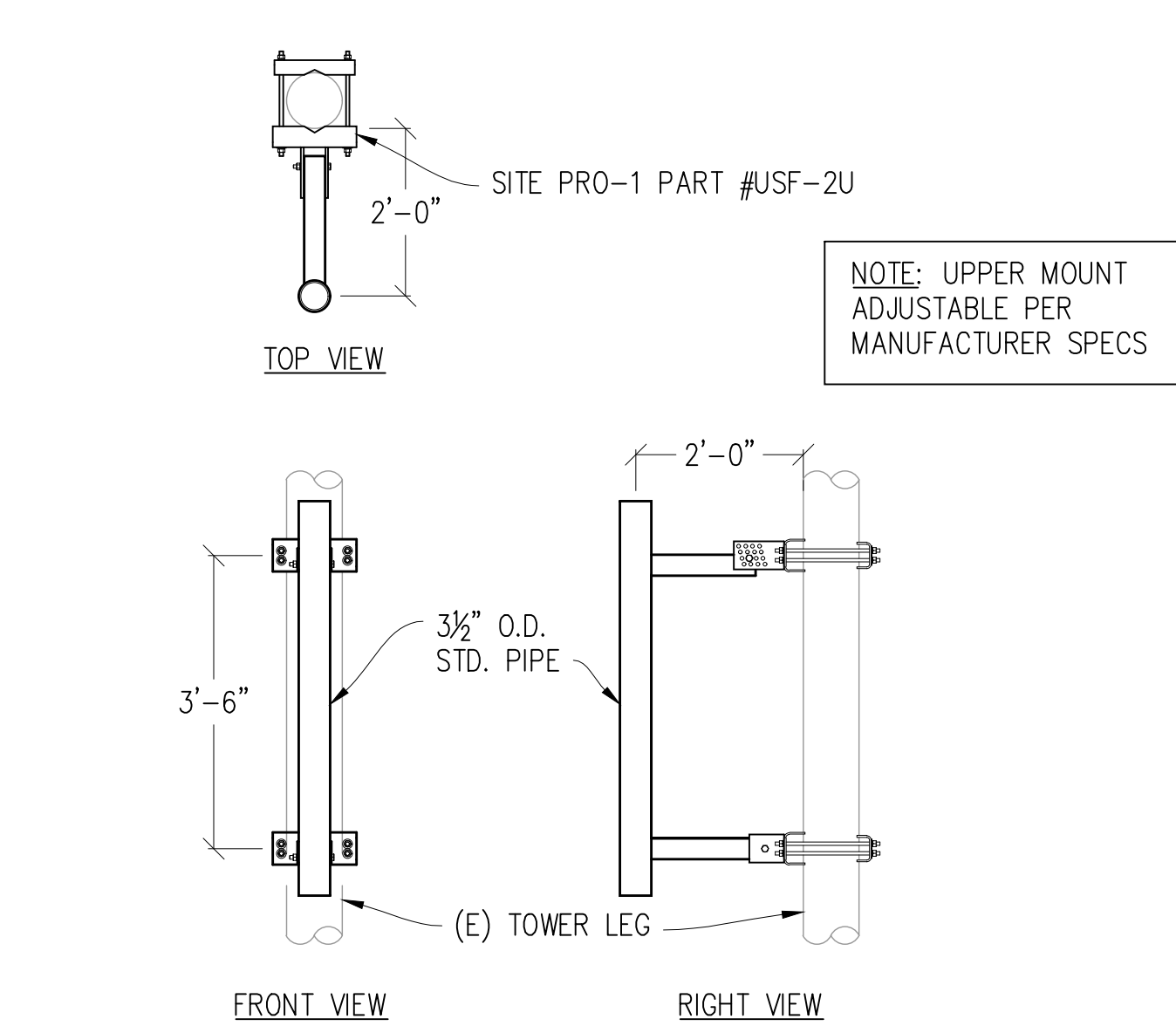
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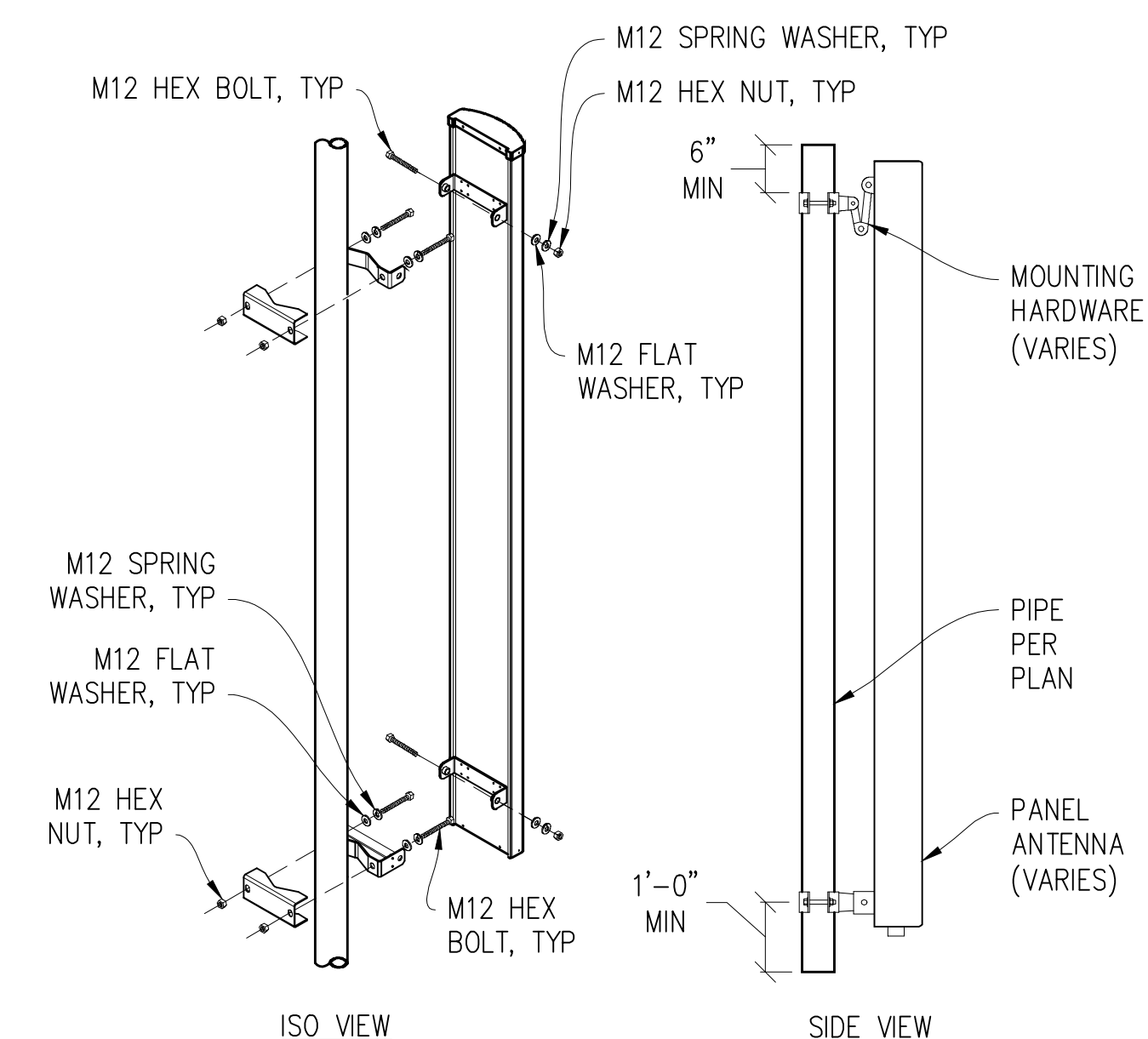
ANTENNA DETAILS

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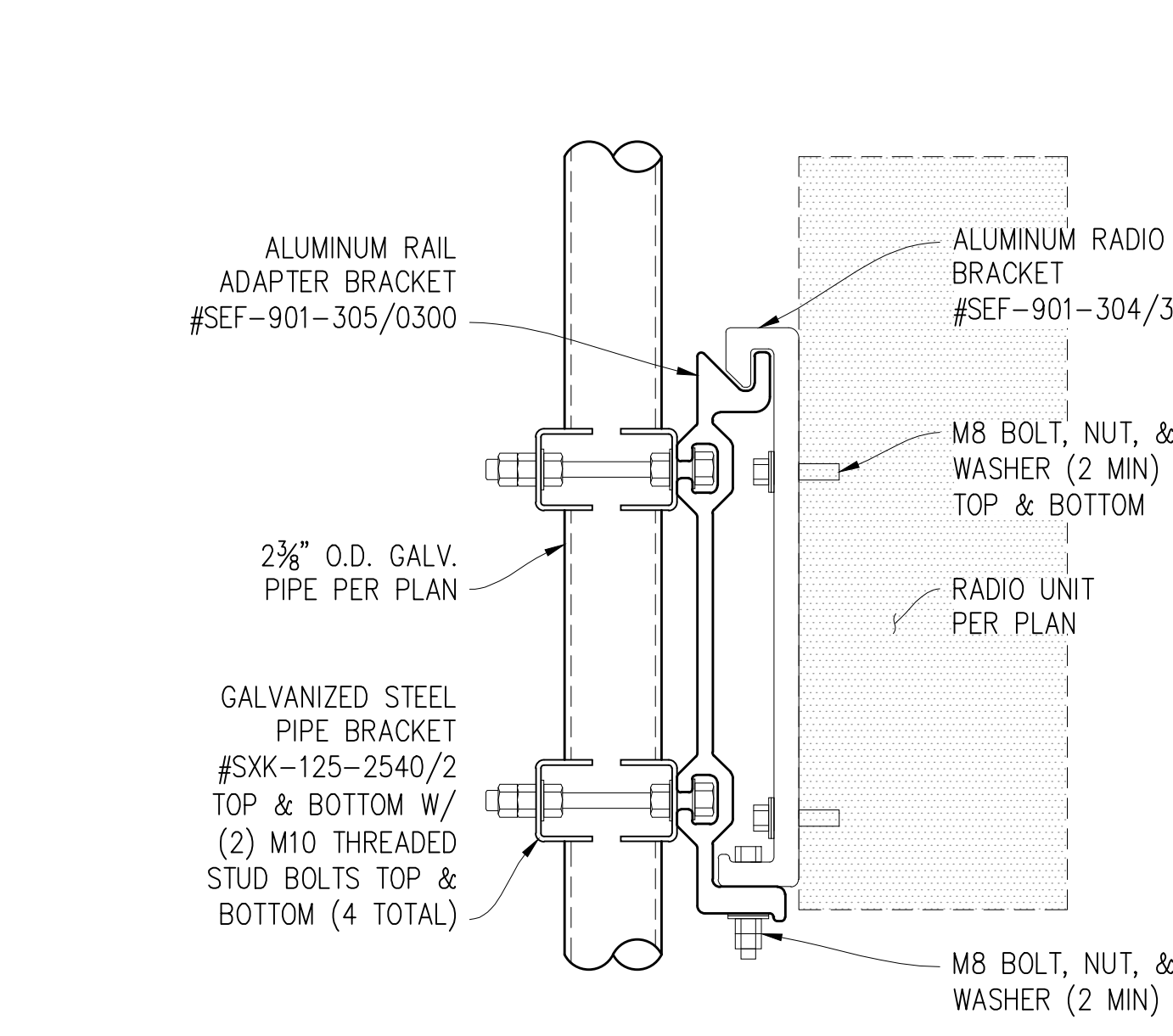
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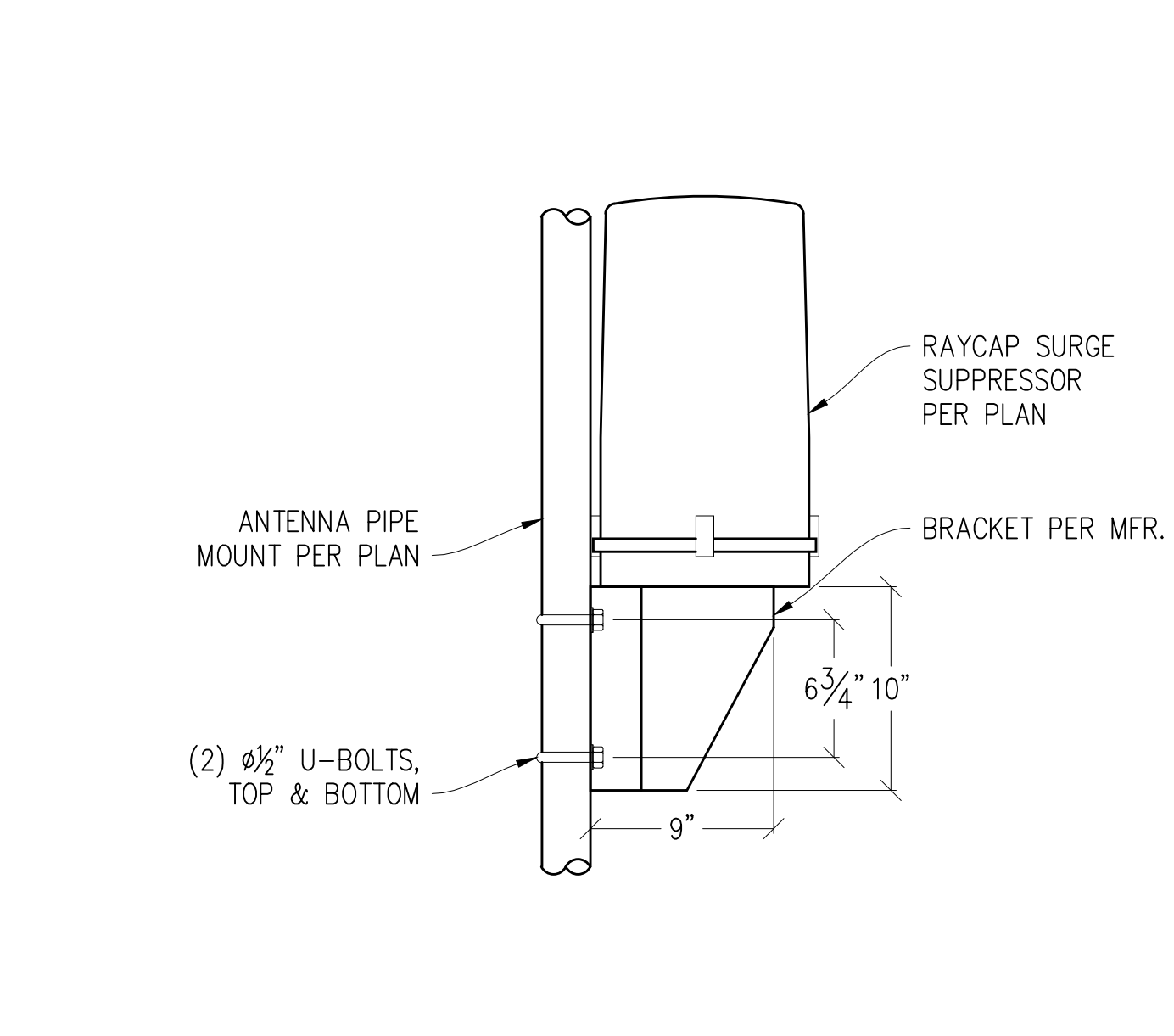
1 TOWER MOUNTING BRACKET
1/2"=1'-0"



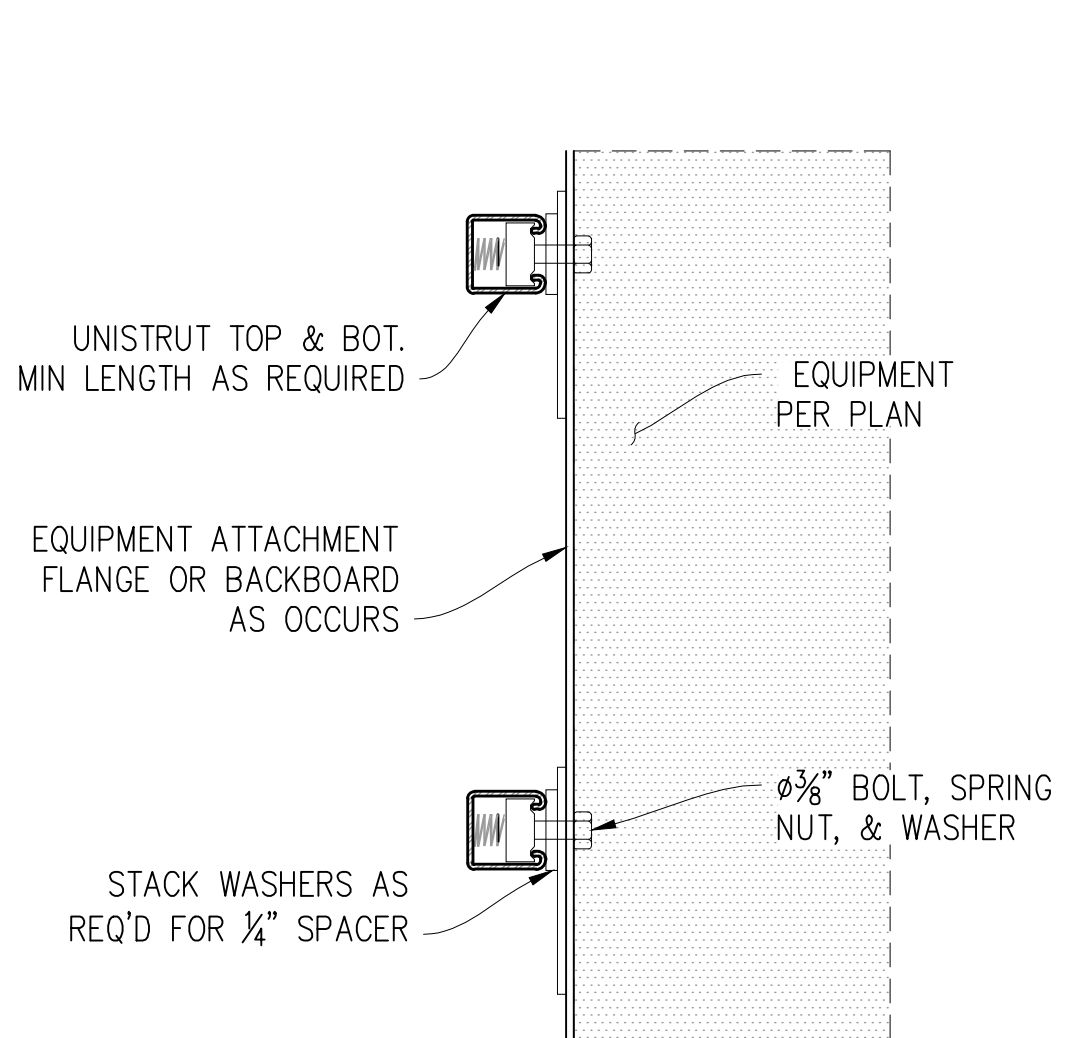
2 ANTENNA MOUNT
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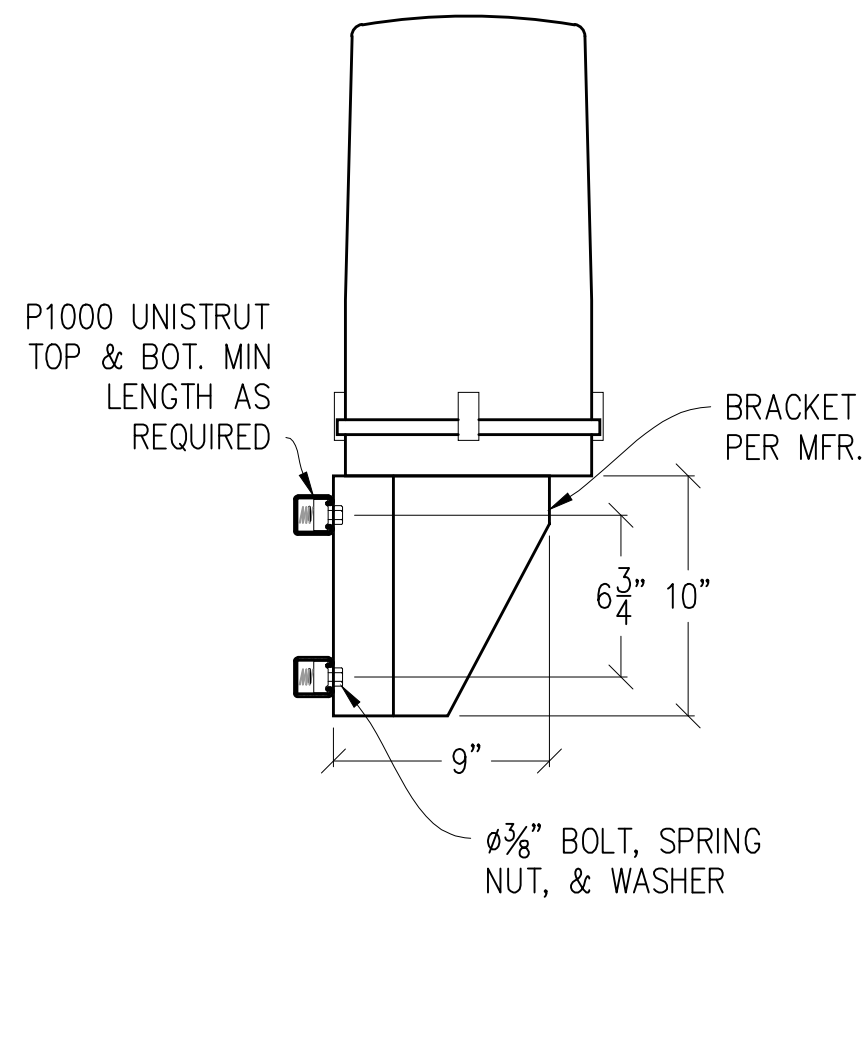
3 RADIO UNIT MOUNTING
3"=1'-0"



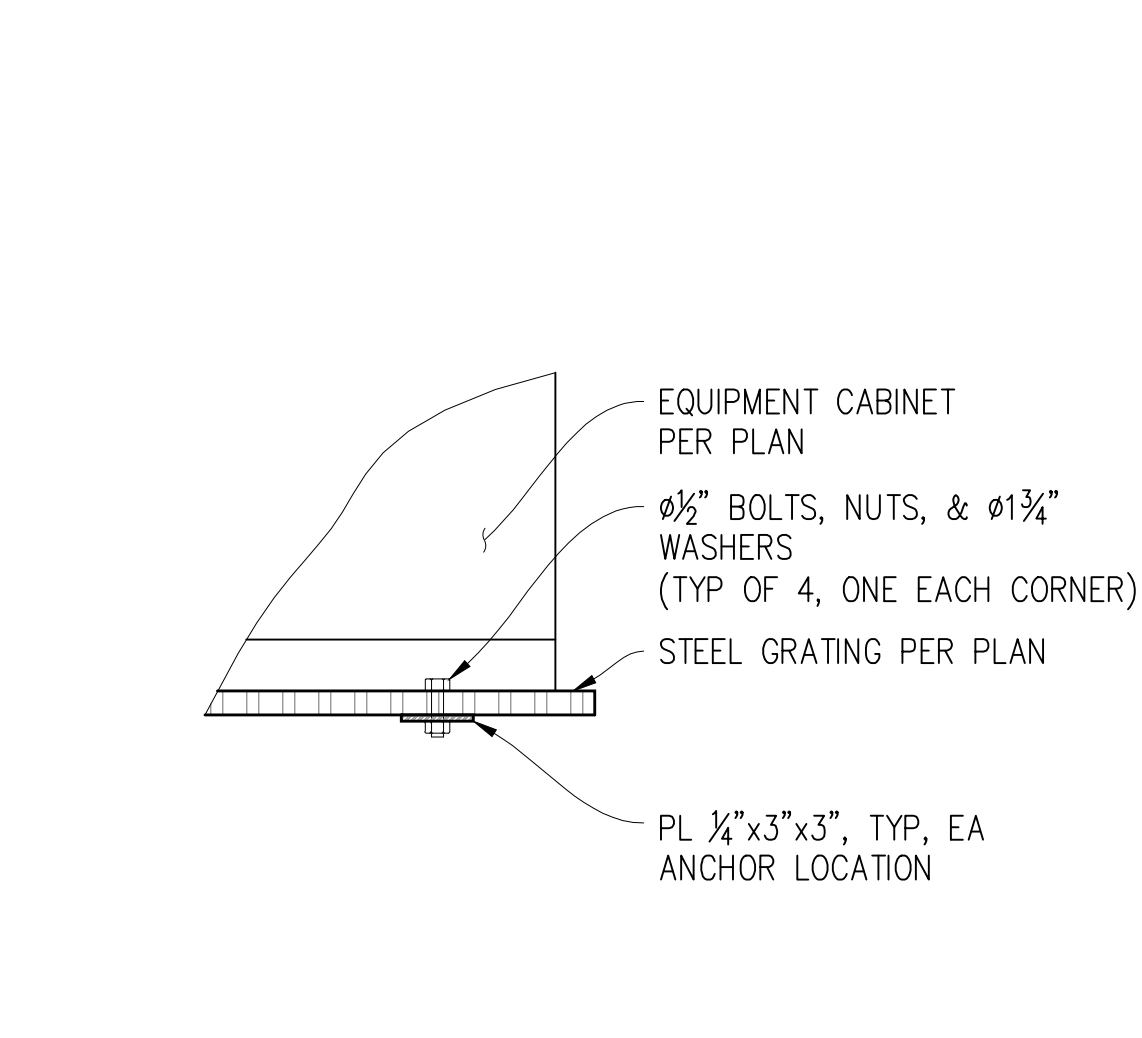
4 SURGE PIPE MOUNT
1 1/2"=1'-0"



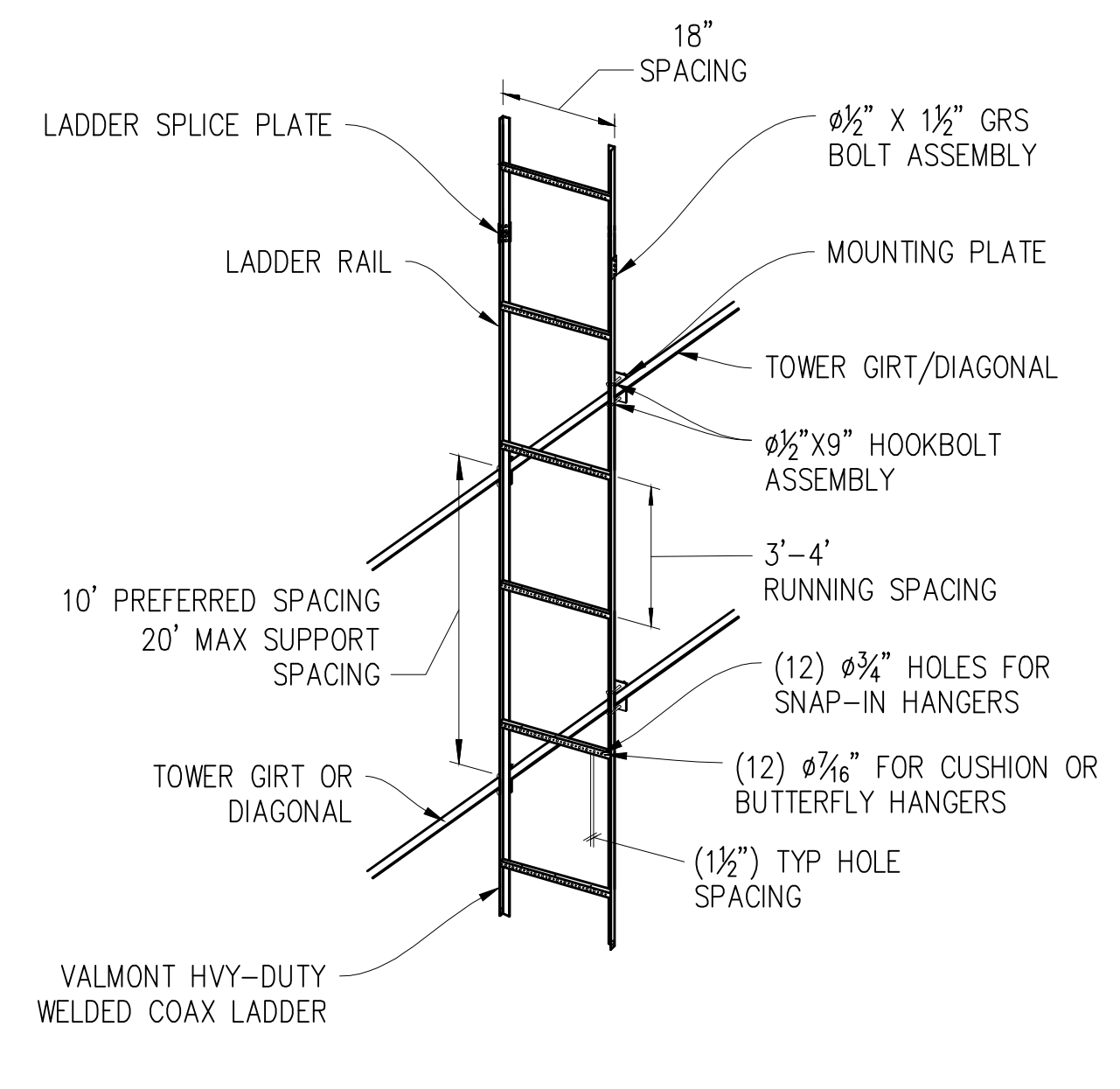
5 EQUIPMENT MOUNTING
3"=1'-0"



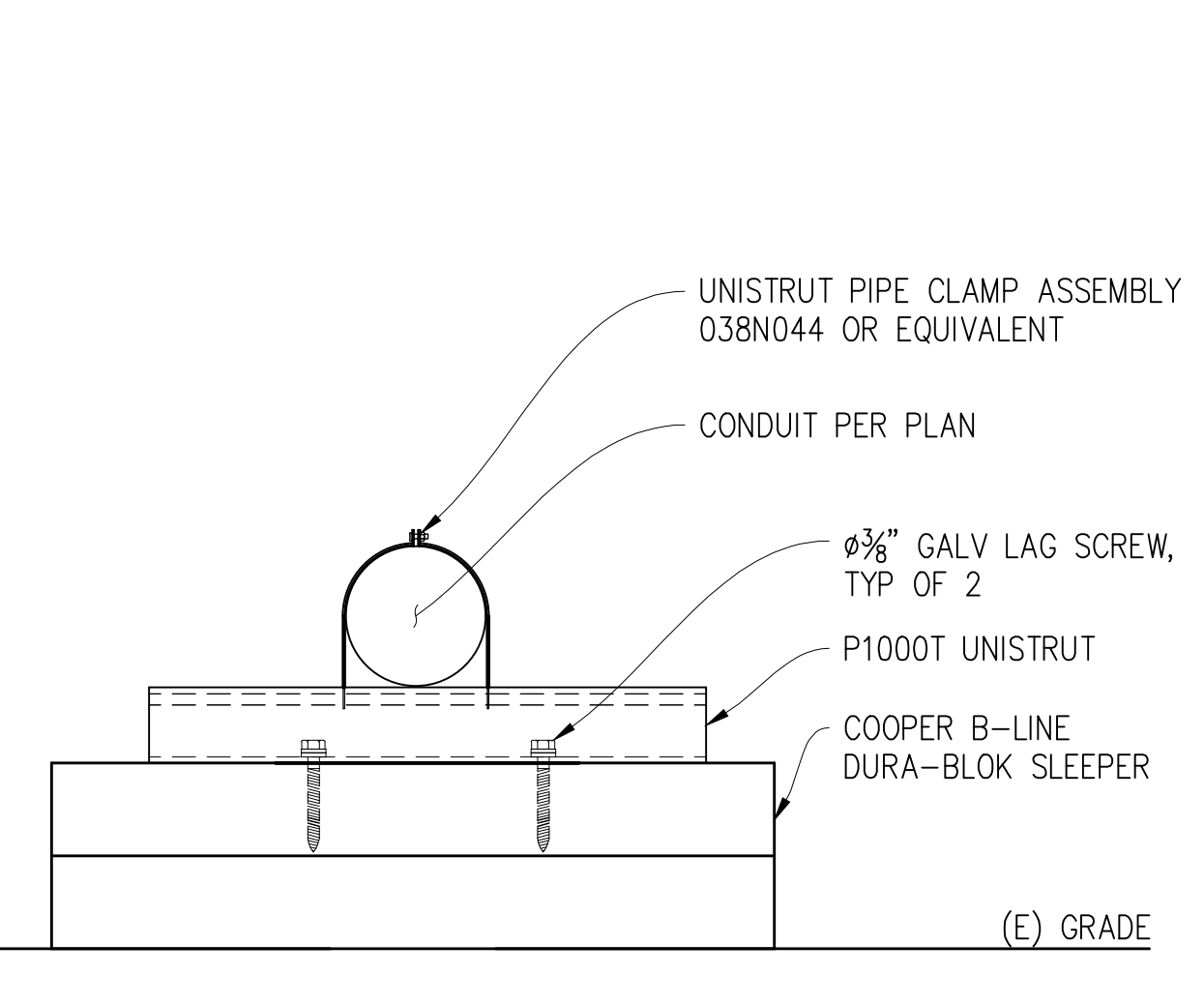
6 SURGE MOUNT
1 1/2"=1'-0"



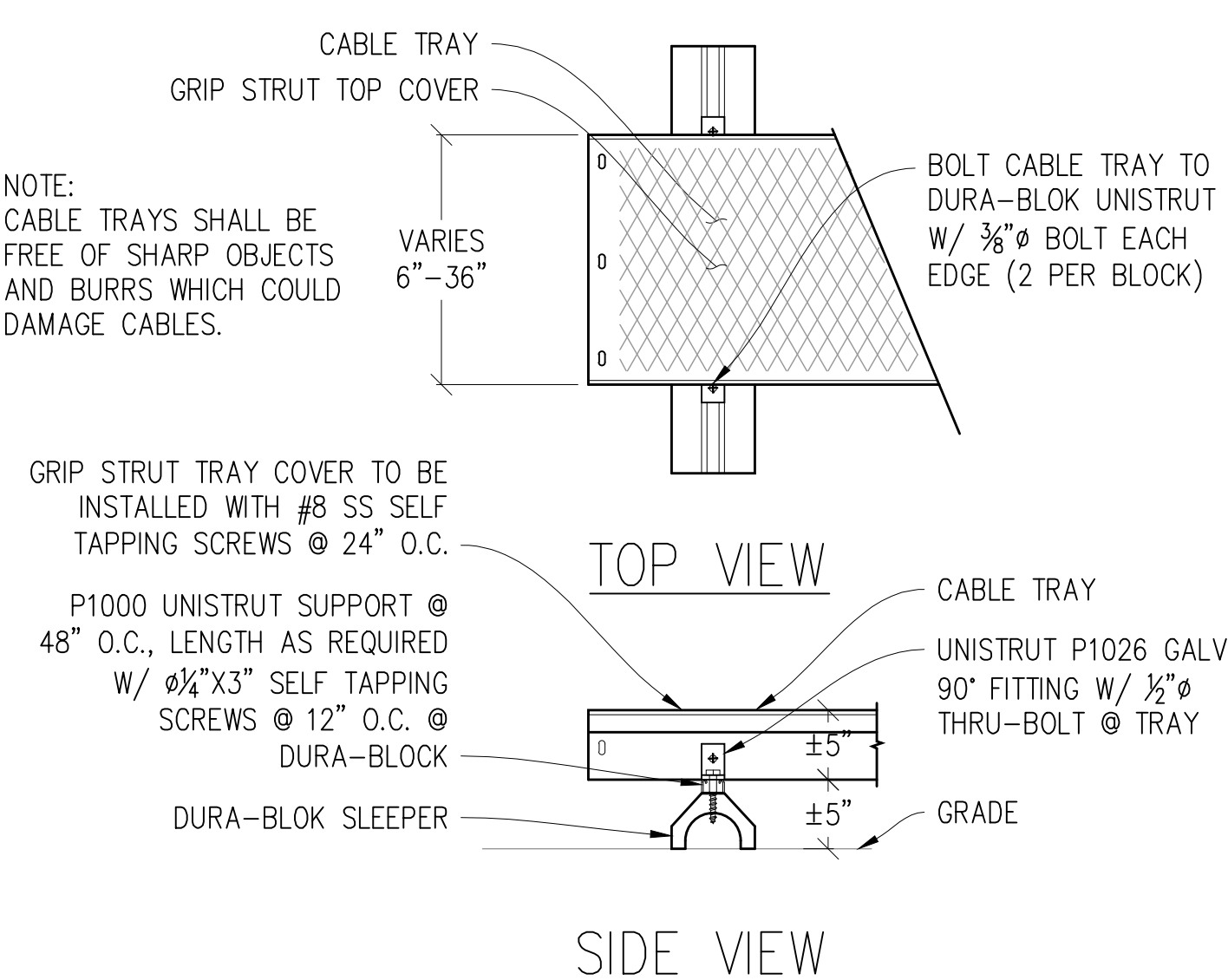
7 CABINET TO WF BEAM
1 1/2"=1'-0"



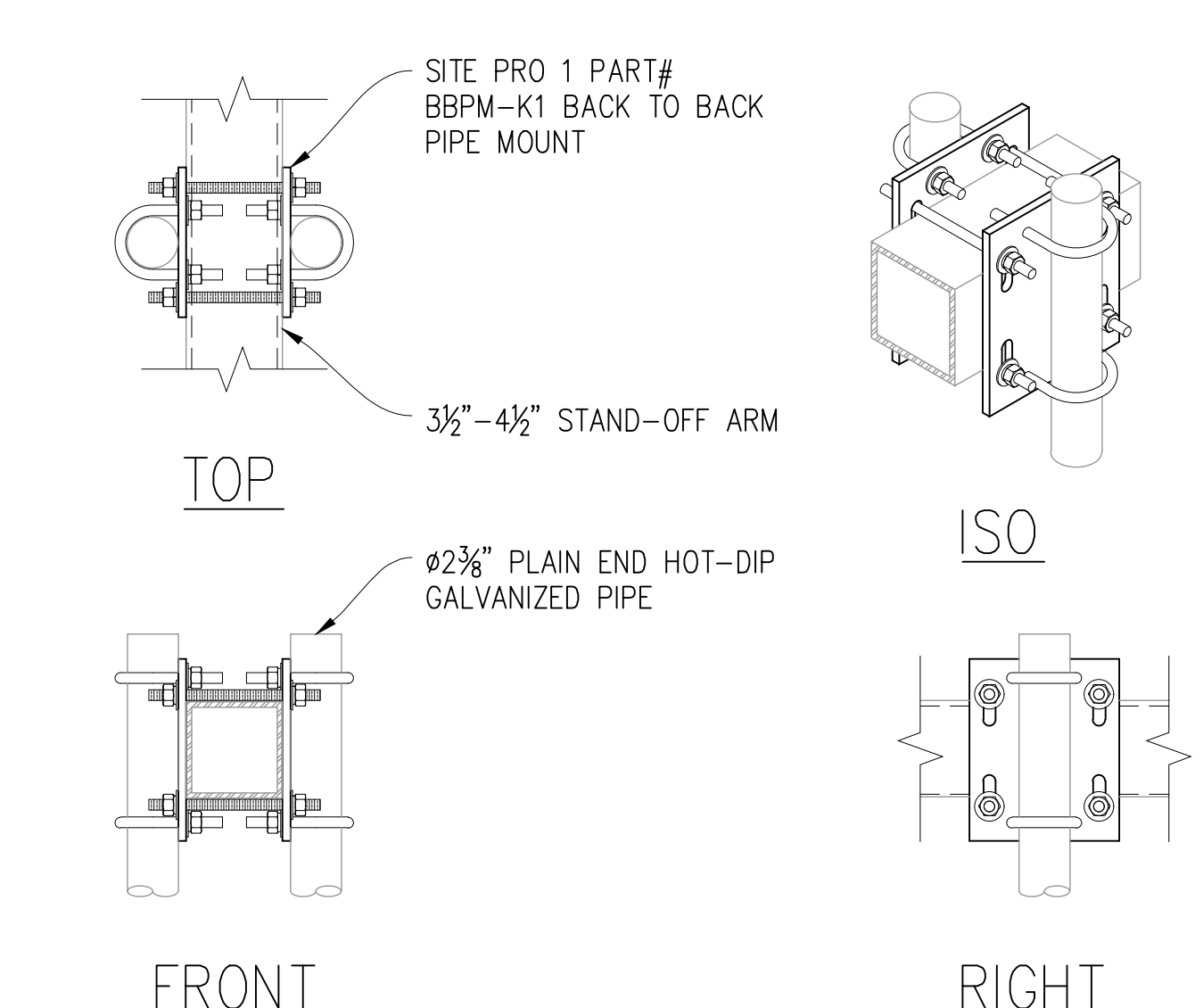
8 CABLE LADDER TO TOWER
NOT TO SCALE



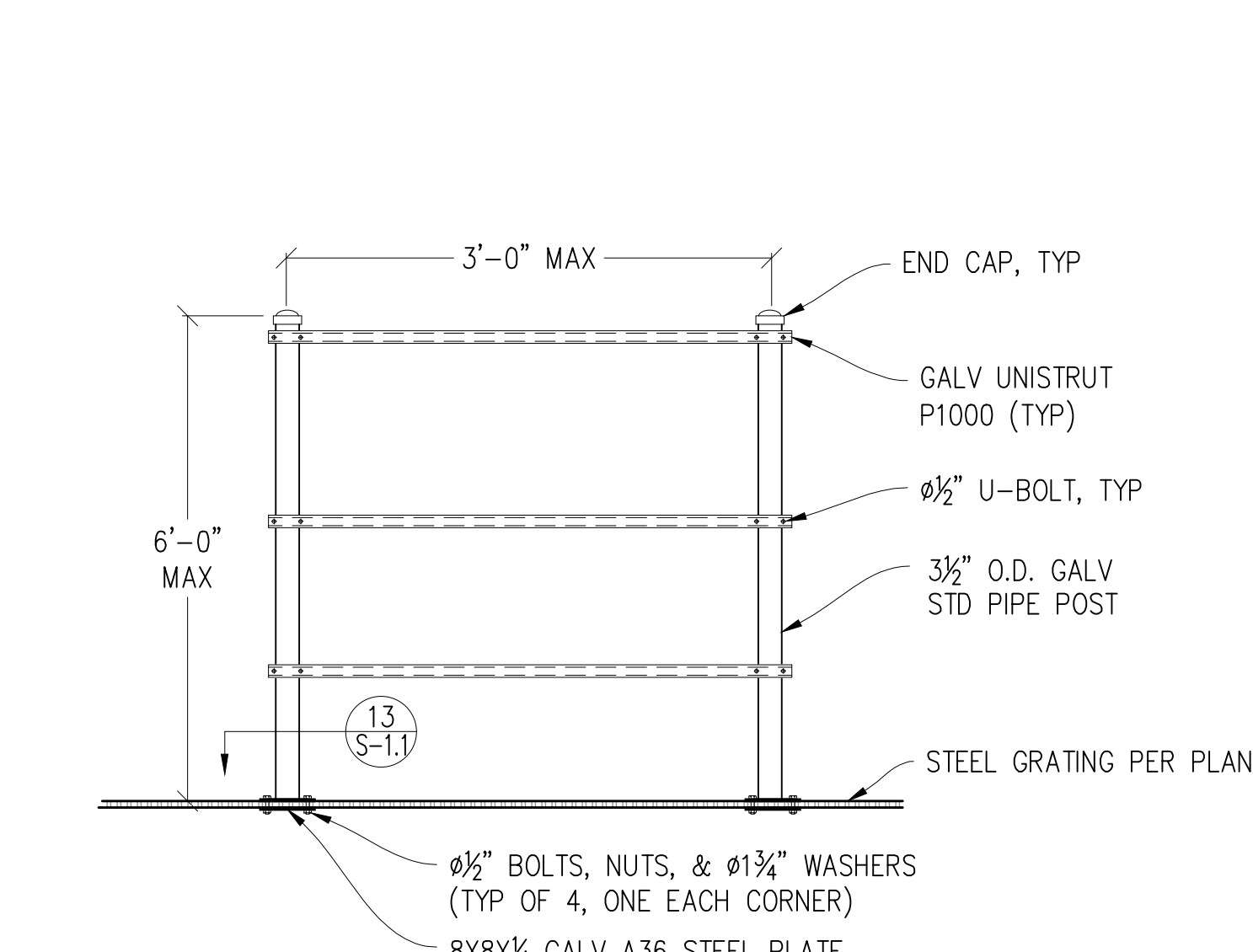
9 CONDUIT MOUNT DETAIL
3"=1'-0"



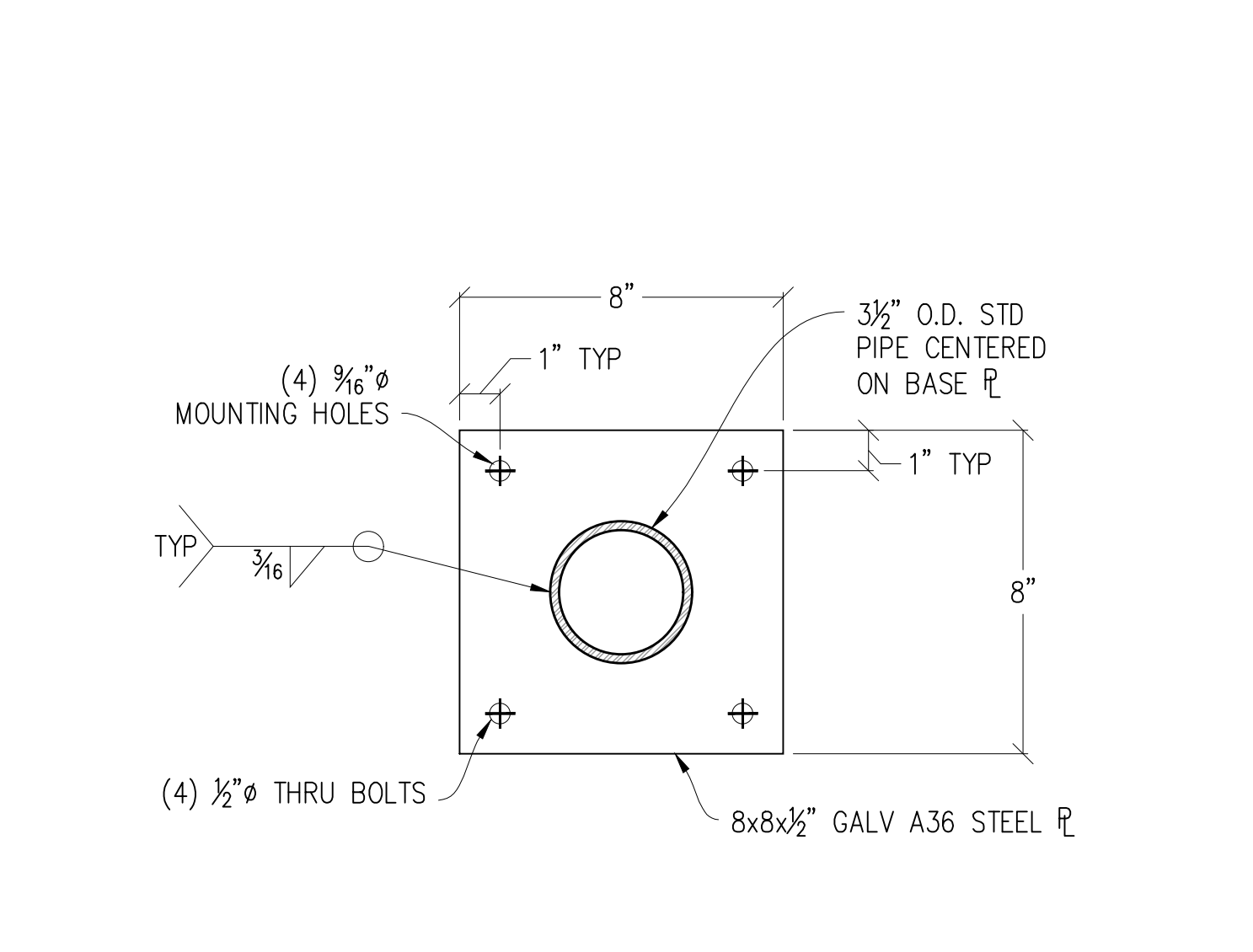
10 CABLE TRAY DETAIL
1"=1'-0"



11 BACK TO BACK PIPE MOUNT
1 1/2"=1'-0"



12 H-FRAME DETAIL
1/2"=1'-0"



13 H-FRAME BASE PLATE
3"=1'-0"

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2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID: 5000988216

PROJECT ID: 17576393

DRAWN BY: SEAD

CHECKED BY: N. GEORGE

APPROVED BY: -

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**STRUCTURAL
DETAILS**

SHEET NUMBER:

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SHEET TITLE:

ELECTRICAL
PLAN

SHEET NUMBER:

E-1.1

ELECTRICAL LABELING REQUIREMENTS

- CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INSTALLED OR ALTERED PURSUANT TO THIS CONTRACT PER THE FOLLOWING. LABELS SHALL BE PERMANENT BLACK ON WHITE PEEL & STICK LABEL MAKER TYPE FOR ALL SWITCH & OUTLET PLATES, CONDUITS AND CEILING FIXTURES, AND SHALL BE PHENOLIC TAG TYPE FOR PANELS, XFMR's, PULL BOXES, ETC.; PHENOLIC TAGS SHALL BE RED IN COLOR WHERE BACKED UP BY GENERATOR
- ALL PANELS, XFMR's AND PULL BOXES SHALL BE LABELED WITH DEVICE 'NAME', VOLTAGE(S), RATING FOR XFMR's, AND "FED FROM" DATA.
- ALL SWITCH & OUTLET PLATES SHALL BE LABELED WITH "FED FROM" CIRCUIT DATA (PANEL NAME & CIRCUIT#); ALL GANG SWITCHES SHALL BEAR SWITCH NUMBERS BEGINNING W/#1 ON LEFT OF THE MAIN LIGHTING SWITCH FOR EACH ROOM FOR COORDINATION W/FIXTURE LABELS.
- ALL (N) OR RETROFITTED LIGHTING FIXTURES SHALL BE LABELED WITH THE "FED FROM" DATA (SWITCH#)
- ALL CONDUITS EXITING A PANEL BOARD SHALL BE LABELED "CIRCUIT(S) 'X'..." WHERE X IS/ARE THE BREAKER#(S). CONDUITS EXITING XFMR'S SHALL BE LABELED "FEEDER TO <PANEL, DEVICE>", E.G. "FEEDER TO PANEL <panel name>. CONDUITS ENTERING/EXITING A ROOM OR FLOOR SHALL BE LABELED AT THE ENTRY & EXIT (OR IN A SINGLE LOCATION IF OBVIOUS) W/"FED FROM..." & "TO PANEL/XFMR/..." DATA.
- "FED FROM: DATA = <panel name> <brkr#> EG: "PANEL X/1,3,5")

ELECTRIC LEGEND

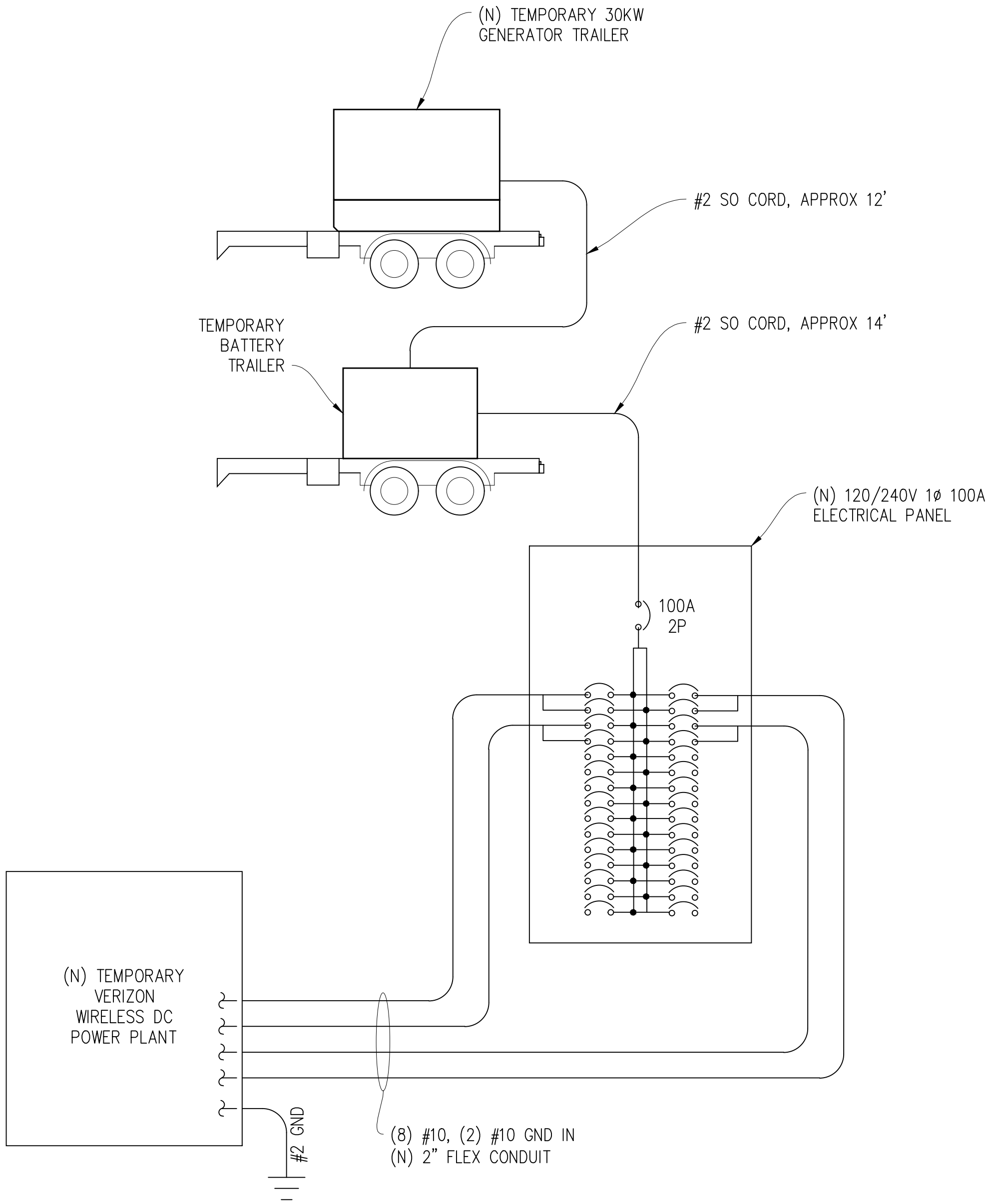
- METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF

ELECTRICAL NOTES

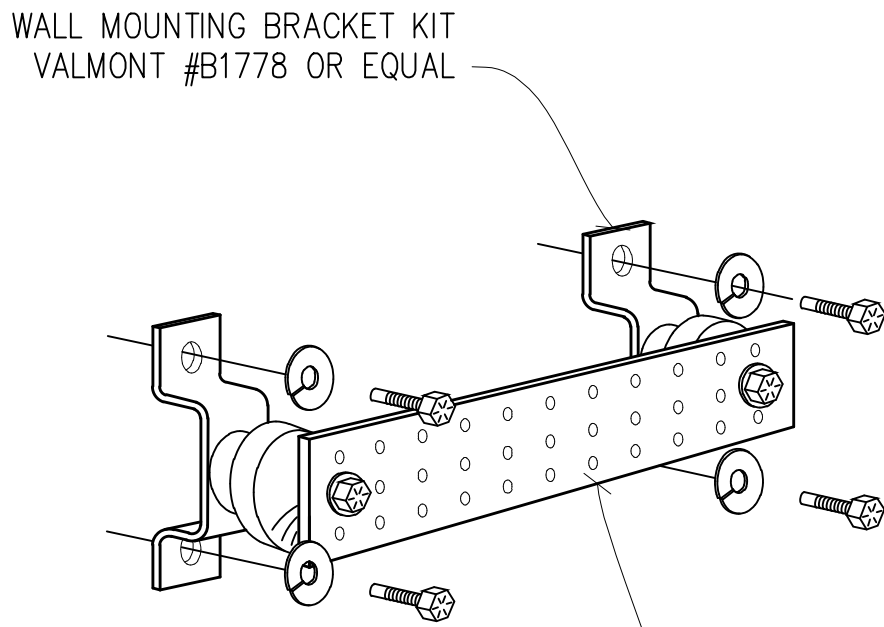
- ALL ELECTRICAL WORK SHALL CONFORM TO THE 2022 CEC AS WELL AS ALL ADOPTED STANDARDS, APPLICABLE STATE AND LOCAL CODES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
- ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- ELECTRICAL WIRING SHALL BE COPPER #12 AWG MIN WITH TYPE THHN, THWN-2 OR THW-2, INSULATION RATED FOR 90°C DRY OR 70°C WET.
- ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
- ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
- A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
- WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.
- WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY PLAN DETAILS WITH THE UTILITY'S SERVICE PLAN & REQ'MTS INCLUDING SERVICE VOLTAGE, METER LOCATION, MAIN DISCONNECTING MEANS, AND AIC REQ'MT, AND SHALL OBTAIN CLARIFICATION FROM THE PROJECT ENGINEER ON ANY DEVIATIONS FOUND IN THESE PLANS.
- WHERE THESE PLANS SHOW A DC POWER PLANT, THE INSTALLATION OPERATING AT LESS THAN 50 VDC UNGROUNDED, 2-WIRE, SHALL COMPLY WITH ARTICLE 720, AS FOLLOWS:
 - POWER PLANT SHALL BE SUPPLIED BY THE WIRELESS CARRIER AS A PULL-TAG ITEM AND INSTALLED BY THE CONTRACTOR.
 - CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG COPPER MIN, CONDUCTORS FOR BRANCH CIRCUITS SUPPLYING MORE THAN ONE APPLIANCE SHALL BE 10 AWG CU MIN; CONTRACTOR SHALL SIZE CONDUCTORS BASED ON MFGR'S DATA FOR THE APPLIANCES SERVED.
 - THERE ARE NO DC RECEPTACLES OR LUMINARIES ALLOWED ON THIS PROJECT. ALL CIRCUITS SHALL ORIGINATE AT AN INTEGRATED DOUBLE LUG TAP OR SOCKET TERMINATION ON AN INTEGRATED DC CIRCUIT BREAKER AT AN INDIVIDUAL RECTIFIER MODULE AND TERMINATE AT THE SPECIALIZED LUG ON THE RESPECTIVE APPLIANCE AS A SINGLE RUN OF WIRE WITHOUT SPLICES. ALL DC WIRING SHALL BE LABELED AT THE DC PLANT WITH THE APPLIANCE SERVED AND THE DC VOLTAGE.
 - ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND SUPPORTED BY BUILDING STRUCTURE, EG. (N) CABLE TRAY OVERHEAD, IN SUCH A MANNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL USE.

NEW PANEL SCHEDULE

NAMEPLATE : PANEL A				SC LEVEL : 22,000				VOLTS: 120V/240V, 1Ø			
LOCATION : OUTSIDE								BUS AMPS: 100A			
MOUNTING : H-FRAME								MAIN CB: 100A			
ØA	ØB	LOAD DESCRIPTION	BKR AMP/ POLE	CIRCUIT NO		BKR AMP/ POLE	LOAD DESCRIPTION	ØA	ØB		
LOAD VA	LOAD VA							LOAD VA	LOAD VA		
1320		(N) VZW RECTIFIER 1	30/2	1	2	30/2	(N) VZW RECTIFIER 3	1320			
	1320	" "	" "	3	4	" "	" "		1320		
1320		(N) VZW RECTIFIER 2	30/2	5	6	30/2	(N) VZW RECTIFIER 4	1320			
	1320	" "	" "	7	8	" "	" "		1320		
		BLANK	—	9	10	—	BLANK				
		" "	—	11	12	—	" "				
		" "	—	13	14	—	" "				
		" "	—	15	16	—	" "				
		" "	—	17	18	—	" "				
		" "	—	19	20	—	" "				
		" "	—	21	22	—	" "				
		" "	—	23	24	—	" "				
		" "	—	25	26	—	" "				
		" "	—	27	28	—	" "				
		" "	—	29	30	—	" "				
2640	2640	PHASE TOTALS					PHASE TOTALS	2640	2640		
TOTAL VA =	10560	TOTAL AMPS =	44								



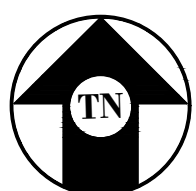
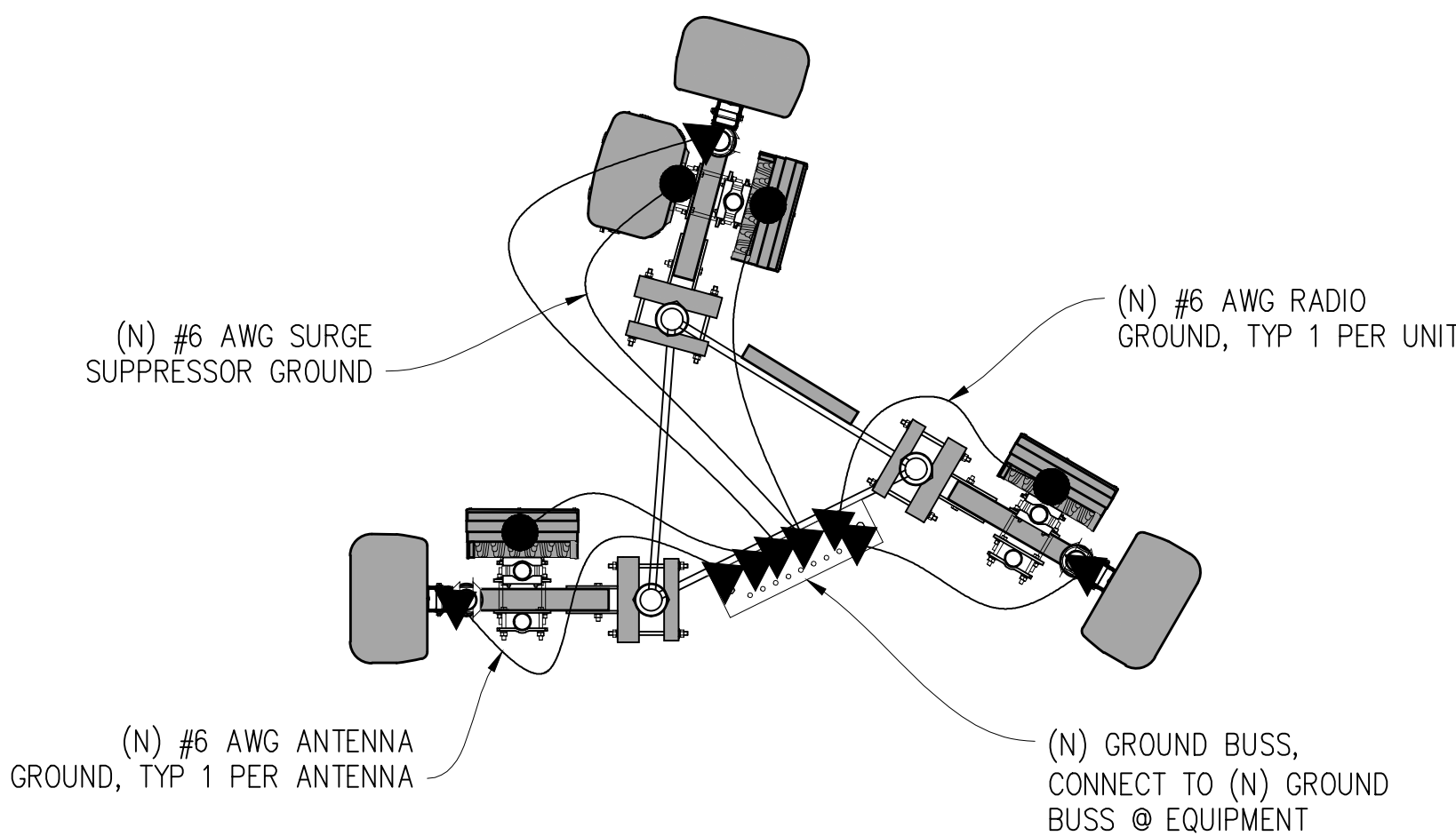
TEMPORARY SINGLE
LINE DIAGRAM



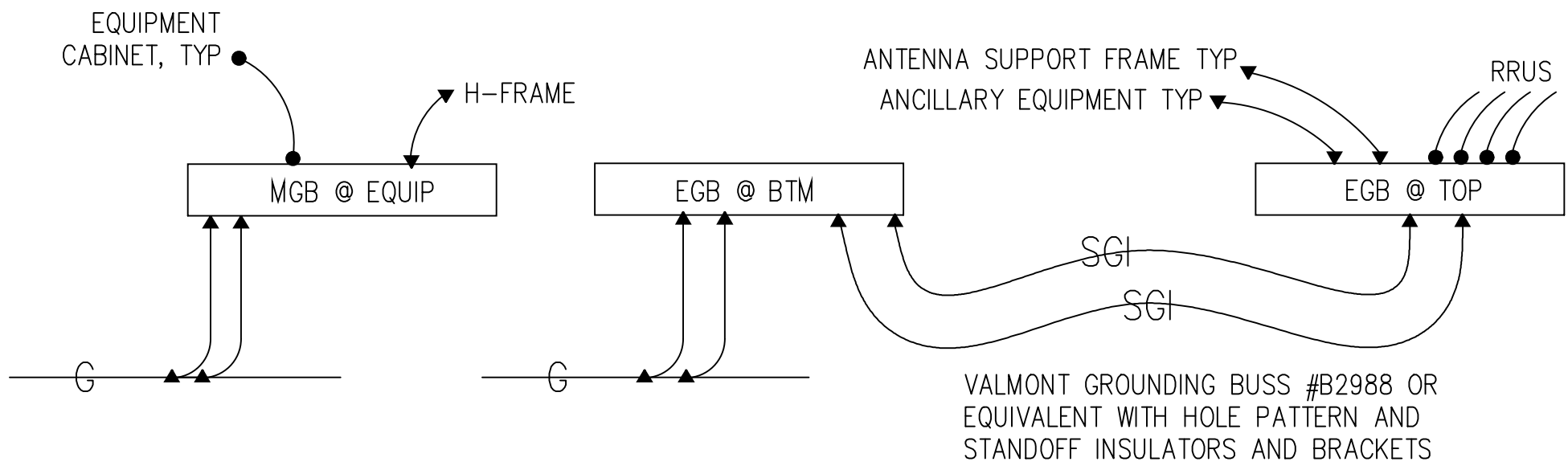
COPPER GROUND BUSS $\phi 1\frac{1}{2}$ "X4"X24"
VALMONT #B2988 OR EQUAL. HOLE CENTERS TO
MATCH NEMA DOUBLE LUG CONFIGURATION.
(ACTUAL GROUND BUSS SIZES WILL VARY
BASED ON THE NUMBER OF GROUND CONNECTIONS)

1 GROUND BUSS DETAIL

NOT TO SCALE



TEMPORARY ANTENNA GROUNDING PLAN

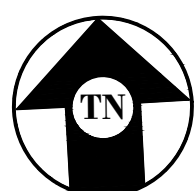
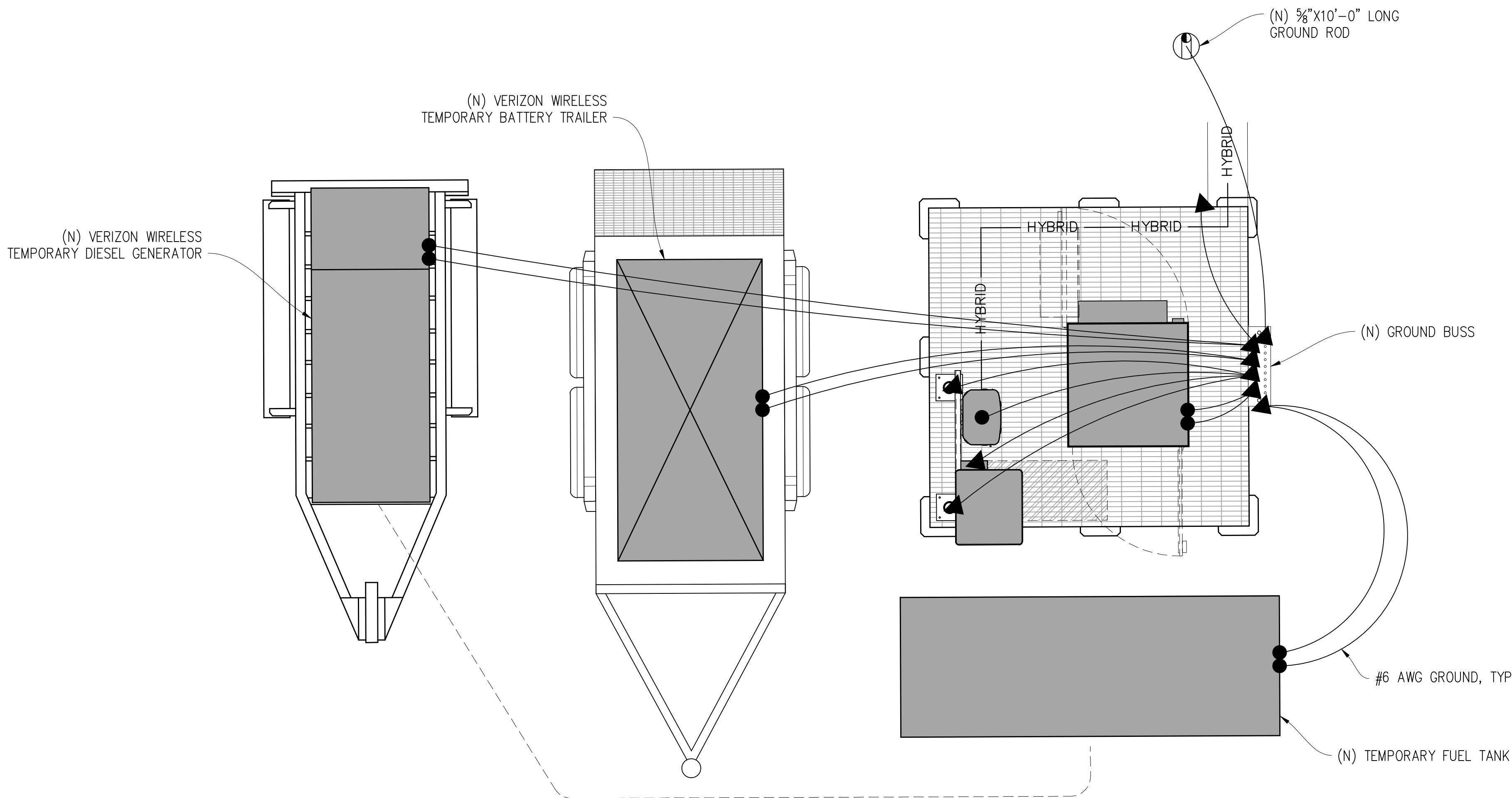


GROUNDING LEGEND

- MECHANICAL CONNECTION
- ▼ EXOTHERMIC CADWELD
- ⊙ TYP. CADWELD INSPECTION WELL
- ⊙ TYP $\frac{5}{8}$ " DIA. X 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX & 18" MIN BELOW FINISH GRADE
- ⌒ GATE GROUNDING STRAP
- G— TYP. #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
- SGI— GROUND WIRE #2 STRANDED GREEN INSULATED WIRE

GROUNDING NOTES

- GROUNDING SHALL COMPLY WITH CEC ARTICLE 250.
- USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- EXPOSED GROUNDING CONNECTIONS SHALL BE MADE WITH BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR EXOTHERMIC WELDS AS SPECIFIED IN THE PLANS.
- CONNECTIONS TO EQUIPMENT SHALL BE MADE USING STAINLESS STEEL HARDWARE.
- APPLY BUTYL & ELECTRICAL TAPE OVER COLD SHRINK AT ALL LOCATIONS FOR WEATHER PROOFING OVER COAX GROUND KITS.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS WITH STAR WASHERS AND NO-OX OR EQUIVALENT PLACED BETWEEN CONNECTOR AND GROUND BAR.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE A 12" RADIUS BEND, HOWEVER, #6 WIRE CAN BE BENT AT A 6" RADIUS WHEN NECESSARY.
- THE SYSTEM GROUND RESISTANCE MUST BE 10 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING FOUR OPTIONS:
 - CONNECT TO EXISTING GROUNDING SYSTEMS
 - CONNECT TO BUILDING STEEL COLUMNS
 - INSTALL A NEW GROUNDING SYSTEMUPON COMPLETION OF THE GROUNDING INSTALLATION THE CONTRACTOR SHALL EMPLOY AN OWNER APPROVED 3RD PARTY TO CONDUCT A "FALL OF POTENTIAL" TEST AND SUBMIT A REPORT OF SUCH TEST FOR APPROVAL TO EITHER THE OWNER OR CONSTRUCTION MANAGER.



TEMPORARY EQUIPMENT GROUNDING PLAN

Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID: 5000988216

PROJECT ID: 17576393

DRAWN BY: SEAD

CHECKED BY: N. GEORGE

APPROVED BY: -

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
0	09/25/25	CD 90%	S.D.

Licensee:

PRELIMINARY:
NOT FOR
CONSTRUCTION

KEVIN R. SORENSEN
S4469

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UNLESS THEY ARE ACTING UNDER THE
DIRECTION OF A LICENSED PROFESSIONAL
ENGINEER, TO ALTER THIS DOCUMENT.

ENGINEER:

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SHEET TITLE:

GROUNDING PLAN
NOTES & DETAILS

SHEET NUMBER:

E-1.2

PROJECT GENERAL NOTES

1. THIS FACILITY IS AN UNOCCUPIED WIRELESS TELECOMMUNICATION FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE.
3. THE SCOPE OF WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
4. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR PERMIT FEES, AND TO OBTAIN SAID PERMITS AND TO COORDINATE INSPECTIONS.
6. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
7. CALL BEFORE YOU DIG. CONTRACTOR IS REQUIRED TO CALL 811 (NATIONWIDE "CALL BEFORE YOU DIG" HOTLINE) AT LEAST 72 HOURS BEFORE DIGGING.
8. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
9. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONTRACTOR SHALL ALSO COORDINATE ALL PORTIONS OF THE WORK UNDER THE CONTRACT; INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
10. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
11. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH. REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
12. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED, OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
13. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND ALL OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES.
14. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
15. THE CONTRACTOR SHALL PROVIDE A TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
16. SUFFICIENT MONUMENTATION WAS NOT RECOVERED TO ESTABLISH THE POSITION OF THE BOUNDARY LINES SHOWN HEREON. THE BOUNDARY REPRESENTED ON THIS MAP IS BASED ON COMPILED RECORD DATA AND BEST FIT ONTO EXISTING IMPROVEMENTS. IT IS POSSIBLE FOR THE LOCATION OF THE SUBJECT PROPERTY TO SHIFT FROM THE PLACEMENT SHOWN HEREON WITH ADDITIONAL FIELD WORK AND RESEARCH. THEREFORE ANY SPATIAL REFERENCE MADE OR SHOWN BETWEEN THE RELATIONSHIP OF THE BOUNDARY LINES SHOWN HEREON AND EXISTING GROUND FEATURES, EASEMENTS OR LEASE AREA IS INTENDED TO BE APPROXIMATE AND IS SUBJECT TO VERIFICATION BY RESOLVING THE POSITION OF THE BOUNDARY LINES.
17. THE CONTRACTOR TO VERIFY THE LATEST/CURRENT RF DESIGN.
18. WHERE APPLICABLE, CONTRACTOR SHALL PROVIDE SEPARATE PLANS, SPECIFICATIONS, FEES AND PERMITS FOR ANY REVISION TO ANY FIRE SPRINKLER AND/OR ALARM SYSTEM ON THE PREMISES AS MAY BE NEEDED TO COMPLETE THE WORK DEPICTED HEREIN, USING A LICENSED SUBCONTRACTOR FOR ALL SUCH WORK.

CONSTRUCTION NOTES

1. EXISTING BUILDING CONSTRUCTION CONDITIONS INDICATED ON THE DRAWNGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH CONSTRUCTION OR ORDERING OF MATERIALS. IF EXISTING CONDITIONS DO NOT ALLOW FOR DETAILS OF CONSTRUCTION AS SHOWN ON THESE DRAWINGS, NOTIFY ENGINEER OF RECORD FOR RESOLUTION PRIOR TO PROCEEDING. CONTRACTOR SHALL EXPOSE AND REVIEW EXISTING CONDITIONS IN A TIMELY MANNER SUCH THAT ALTERNATE DESIGNS OR DETAILS, IF REQUIRED, MAY BE GENERATED WITHOUT DELAY TO THE PROJECT.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOT ALTER, DAMAGE OR REMOVE ANY PART OF THE EXISTING STRUCTURE UNLESS SPECIFICALLY DETAILED ON THESE DRAWINGS.
3. THE INTENT OF THESE DRAWINGS IS THAT THE WORK OF THE ADDITION, ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH THE 2022 CBC. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NONCOMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2022 CBC, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE PREPARED AND SUBMITTED TO AND APPROVED BY THE BUILDING DEPARTMENT PRIOR TO PROCEEDING WITH THE WORK.
4. ALL WORK AND MATERIALS SHOWN ARE NEW UNLESS INDICATED AS EXISTING (E).
5. IT MAY BE NECESSARY TO REMOVE ARCHITECTURAL FINISHES, PLUMBING PIPES AND FIXTURES, ELECTRICAL CONDUIT, FIXTURES, PANELS, BOXES, TELEPHONE OR FIRE ALARM WIRING AND FIXTURES OR OTHER NON-STRUCTURAL ITEMS TO INSTALL STRUCTURAL WORK AND MATERIALS SHOWN ON THESE DRAWINGS. SUCH ITEMS SHALL BE REMOVED, REPAIRED AND/OR REPLACED TO MATCH PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTORS EXPENSE.
6. ALL WEATHER PROOFING, INCLUDING BUT NOT LIMITED TO TORCH DOWN, CAULKING, Z-FLASHING OR ANY OTHER MATERIAL THAT MAY BE ALTERED DURING INSTALLATION SHALL BE REPAIRED REPLACED AND/OR MODIFIED TO ENSURE THE BUILDING AT THE INSTALLATION SITE IS WEATHER PROOF.
7. ANY PROPOSED SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE, ANCHOR TYPES, OR DETAILING INDICATED IN THESE DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ORDERING MATERIALS. SUCH REVIEW SHALL BE BILLED ON A TIME AND MATERIALS BASIS TO THE CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
8. CONTRACTOR SHALL ENSURE ALL ROOF AREAS HAVE POSITIVE SLOPE TO ALL EXISTING ROOF DRAINS. PROVIDE ADDITIONAL CRICKETS OR BUILD UP ROOFING AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AROUND ALL NEW CONSTRUCTION INCLUDING ANY CURBS, SLEEPERS, SUPPORT BASES, ETC.

EXPANSION & EPOXY ANCHORS

1. EXPANSION AND EPOXY ANCHORS SHALL BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE 2022 CALIFORNIA BUILDING CODE (CBC).
2. ALL ANCHORS PROVIDED SHALL BE INCLUDED IN EVALUATION REPORTS OF THE INTERNATIONAL CODE COUNCIL (ICC), AND SHALL BE EVALUATED FOR 2021 IBC MINIMUM REQUIREMENTS IN THE ICC REPORT
3. CONCRETE EXPANSION ANCHORS SHALL BE KWK BOLT T22 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4266 OR APPROVED EQUIVALENT.
4. CMU EXPANSION ANCHORS SHALL BE KWK BOLT T22 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4561 OR APPROVED EQUIVALENT. ANCHORS SHALL BE INSTALLED A MINIMUM OF 1½" FROM ANY VERTICAL MORTAR JOINT TYPICAL. ANCHORS TO BE SPACED 8 INCHES ON CENTER MINIMUM AND LIMITED TO ONE ANCHOR PER CELL.
5. CONCRETE ADHESIVE EPOXY ANCHORS SHALL BE HIT RE-500 V3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-3814 OR APPROVED EQUIVALENT.
6. GROUT FILLED CMU ADHESIVE EPOXY ANCHORS SHALL BE HIT-HY 200 V3 BY HILTI, INC., TULSA, OKLAHOMA AS PER ICC REPORT NO. ESR-4878 OR APPROVED EQUIVALENT.
7. INSTALL EXPANSION AND EPOXY ANCHORS WITH SPECIAL INSPECTION IN ACCORDANCE WITH THE 2022 CBC, TABLE 1705.3, AND ALL REQUIREMENTS OF THE MANUFACTURER, THE MANUFACTURER'S ICC APPROVAL AND THESE DRAWINGS.
8. EXPANSION ANCHORS SHALL BE 304/316 STAINLESS STEEL U.O.N. EPOXY ANCHOR THREADED ROD SHALL BE ASTM F593 CW1 (316) (¼" TO ¾") OR F593 CW2 (316) (¾" TO 1½") STAINLESS STEEL U.O.N.
9. LOCATE AND AVOID REINFORCEMENT AND OTHER EMBEDDED ITEMS WHEN INSTALLING ANCHORS, TYPICAL. SEE CONCRETE CORE DRILLING NOTES FOR ADDITIONAL INFORMATION.
10. THE SPECIAL INSPECTOR MUST MAKE PERIODIC INSPECTIONS DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE AND DIMENSIONS, CONCRETE MEMBER THICKNESS, ANCHOR SPACING, EDGE DISTANCES, TIGHTENING TORQUE, HOLE DIAMETER, DEPTH AND CLEANLINESS, ANCHOR EMBEDMENT AND ADHERENCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. SEE NOTE 11 BELOW FOR FREQUENCY OF INSPECTIONS.
11. 50% OF ALL ANCHORS, INCLUDING ALTERNATE BOLTS IN A GROUP OF ANCHORS, SHALL BE INSPECTED PER NOTE 10 ABOVE AND TORQUE TESTED PER THE ICC REPORT TEST VALUES NOTED BELOW:

KB T22:

CONCRETE TORQUE TEST VALUES:

¾"=30 FT LB ½"=40 FT LB ¾"=60 FT LB ¾"=125 FT LB

CMU TORQUE TEST VALUES:

¾"=15 FT LB ½"=25 FT LB ¾"=35 FT LB ¾"=50 FT LB

EPOXY ANCHOR:

CONCRETE TORQUE TEST VALUES:

½"=30 FT LB
(CONCRETE TENSION TEST VALUES TO BE DETERMINED AS NEEDED. A RFI WILL BE ISSUED IF NEEDED DURING CONSTRUCTION TO ESTABLISH THE REQUIRED TENSION TEST VALUES)

CONCRETE NOTES

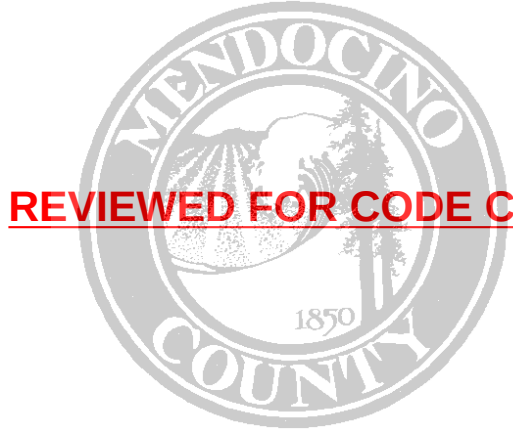
1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19. CONCRETE MIX DESIGN SHALL BE REVIEWED BY AN INDEPENDENT TESTING LABORATORY AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW.
2. CONTRACTOR SHALL VERIFY SITE CONDITIONS & ALL DIMENSIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES FOR RESOLUTION PRIOR TO PROCEEDING.
3. ALL CONCRETE SHALL BE A MINIMUM 5 SACK MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
4. CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
5. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33.
6. ALL REINFORCING STEEL SHALL BE GRADE 60 AND CONFORM TO ASTM A615 UNLESS OTHERWISE NOTED. SEE PLAN FOR SIZE AND PLACEMENT.
7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
8. REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
9. MINIMUM LAP SPLICE SHALL BE 56 BAR DIAMETERS UNLESS OTHERWISE NOTED.
10. MINIMUM BEND DIAMETER SHALL BE 6 BAR DIAMETERS UNLESS OTHERWISE NOTED.
11. MINIMUM REINFORCING COVERAGE IS 3" UNLESS OTHERWISE NOTED.
12. CONCRETE SHALL BE PLACED AGAINST FIRM UNDISTURBED NON EXPANSIVE SOIL AT DEPTH SHOWN. WHERE OTHER CONDITIONS ARE ENCOUNTERED DURING EXCAVATION THE ENGINEER SHALL BE NOTIFIED AND REMEDIAL MEASURES PRESCRIBED PRIOR TO PROCEEDING WITH WORK.
13. BOTTOM OF ALL FOOTING TRENCHES SHALL BE CLEAN AND LEVEL. REMOVE ALL DEBRIS BEFORE PLACING ANY CONCRETE.
14. ALL ANCHOR BOLTS & THREADED ROD SHALL BE ASTM F1554, GR.36 MINIMUM UNLESS OTHERWISE NOTED, NEW, & WITHOUT SIGNIFICANT RUST.
15. A ¾" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.
16. REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
17. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MOTORIZED VIBRATORY MEANS AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS.

CONCRETE CORE/DRILLING NOTES

1. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED OR POST-TENSIONED REINFORCED CONCRETE (MILD REINFORCED), USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE (E) REINFORCING BARS. WHEN INSTALLING ANCHORS INTO (E) PRE-STRESSED OR POST-TENSIONED CONCRETE LOCATE THE PRE-STRESSED OR POST-TENSIONED TENDONS BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, AT POINT OF PENETRATION, PRIOR TO INSTALLATION. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
2. WHEN CORING EXISTING REINFORCED CONCRETE OF ANY CONSTRUCTION TYPE (PRE-STRESSED, POST-TENSIONED OR MILD REINFORCED), LOCATE THE EXISTING REINFORCING BY USING A NON-DESTRUCTIVE METHOD, SUCH AS X-RAY, PRIOR TO CORING. EXERCISE EXTREME CARE & CAUTION TO AVOID CUTTING OR DAMAGING ANY REINFORCING DURING CORING. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN REINFORCEMENT AND THE CORE. THE MAXIMUM SIZE OF ANY CORE IS TO BE 6" DIAMETER AND THE MINIMUM SPACING BETWEEN CORES IS TO BE TWICE THE CORE DIAMETER (I.E. 12" SPACING FOR A 6" DIAMETER CORE).
3. INSPECTOR IS TO BE PRESENT DURING ALL CORE DRILLING OPERATIONS TO VERIFY THAT NO REINFORCING CABLES, TENDONS, OR REBAR HAVE BEEN CUT. (SEE NOTE 5 BELOW)
4. THE INSPECTOR SHALL SUBMIT A WRITTEN REPORT TO THE OWNER.
5. THE INSPECTIONS INDICATED IN NOTES 3 AND 4 ABOVE ARE NOT REQUIRED FOR A CONCRETE FILL OVER METAL DECK APPLICATION WHERE INDICATED ON THE CONSTRUCTION DRAWINGS.

STRUCTURAL STEEL NOTES

1. ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2016 AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2022 CBC.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) & WT (TEE) SHAPES TO BE ASTM A992 (F_y=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE C (F_y=50,000 PSI FOR RECT HSS & F_y=46,000 PSI FOR ROUND HSS PER AISC MANUAL TABLE 2-4) ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F_y=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES UNLESS OTHERWISE NOTED AND SHALL CONFORM TO AISC & AWS D1.4. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
5. HIGH STRENGTH BOLTS SHALL BE GALVANIZED ASTM F3125/F3125M GRADE A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, & SIZE OF BOLTS.
6. HIGH STRENGTH BOLT NUTS SHALL BE ASTM A563/A563M AND WASHERS SHALL BE ASTM F436/ F436M.
7. THREADED RODS SHALL BE ASTM F1554, GR 36 U.O.N. BOLTED CONNECTIONS SHALL BE BEARING TYPE.
8. ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HOT DIPPED GALVANIZED WASHERS.
9. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED.
10. ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
11. AT ALL WEB STIFFENER PLATES LEAVE ¾"Ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.
12. U-BOLTS AT ANTENNA & RRU MOUNT TO BE GALVANIZED SAE J429, GRADE 2 WITH J995 NUTS U.O.N.
13. ALL STRUT MEMBERS USED IN EXTERIOR APPLICATIONS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 OR ASTM A153.
14. ALL STAINLESS STEEL BOLTED CONNECTIONS SHALL BE ASTM F593-17 ALLOY GROUP 1 OR 2 AND STAINLESS STEEL NUTS SHALL BE ASTM F594-09 (2015).



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Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

2770 SHADELANDS DR. BLDG 11
WALNUT CREEK, CA 94598

Vendor:

MDG Location ID: 5000968102

PROJECT ID: 17393308

DRAWN BY: FS

CHECKED BY: N. GEORGE

APPROVED BY: J. SPORE

ISSUE STATUS				
3	10/21/25	CLIENT REV	J.Z.	
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ENGINEER:

3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

GENERAL
NOTES

SHEET NUMBER:

T-1.2

1. THE FOLLOWING INFORMATION IS A GUIDELINE WITH RESPECT TO PREVAILING STANDARDS LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ENERGY AND SHOULD BE USED AS SUCH. IF THE SITE'S EMF REPORT OR ANY LOCAL, STATE OR FEDERAL GUIDELINES OR REGULATION SHOULD BE IN CONFLICT WITH ANY PART OF THESE NOTES OR PLANS, THE MORE RESTRICTIVE GUIDELINE OR REGULATION SHALL BE FOLLOWED AND OVERRIDE THE LESSER.

2. THE PUBLIC LIMIT OF RF EXPOSURE ALLOWED BY VERIZON WIRELESS IS 1mWcm^2 AND THE OCCUPATIONAL LIMIT OF RF EXPOSURE ALLOWED BY VERIZON WIRELESS IS 5mWcm^2

3. IF THE BOTTOM OF THE ANTENNA IS MOUNTED (8) EIGHT FEET ABOVE THE GROUND OR ROOF LINE OF THE PERSONAL COMMUNICATION SYSTEM (PCS) AND DOES NOT EXCEED THE PUBLIC LIMIT OF RF EXPOSURE LIMIT THEN NO STRIPING OR BARRICADES SHOULD BE NEEDED.

4. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS EXCEEDED AND THE AREA IS PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR CANNOT BE LOCKED OR THERE IS AN EXISTING FIRE EGRESS), THEN BOTH BARRICADES AND STRIPING WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE BARRICADES AND STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH BARRICADES AND STRIPING.

5. IF THE PUBLIC LIMIT OF RF EXPOSURE ON THE SITE IS NOT EXCEEDED AND THE AREA IS NOT PUBLICLY ACCESSIBLE (e.g. ROOF ACCESS DOOR IS LOCKED), THEN JUST STRIPING OUT TO THE PUBLIC LIMIT WILL BE NEEDED AROUND THE ANTENNAS. THE EXACT EXTENT OF THE STRIPING WILL BE DETERMINED BY THE EMF REPORT FOR THE SITE DONE BEFORE OR SHORTLY AFTER THE CONSTRUCTION OF THE SITE. USE THE PLANS AS A GUIDELINE FOR PLACEMENT OF SUCH STRIPING.

6. ALL TRANSMIT ANTENNAS REQUIRE A (3) THREE LANGUAGE WARNING SIGN WRITTEN IN ENGLISH, SPANISH, AND CHINESE. THIS SIGN WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION MANAGER AT THE TIME OF CONSTRUCTION. THE LARGER SIGN SHALL BE PLACED AT ALL ROOF ACCESS LOCATIONS AND ON ALL BARRICADES IN PLAIN SIGHT AND THE SMALLER SIGN SHALL BE PLACED ON THE ANTENNAS THEMSELVES OR ON THE OUTSIDE OF THE ANTENNA ENCLOSURES IN A MANNER THAT IS EASILY SEEN BY ANY PERSON ON THE ROOF. WARNING SIGNS SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS. ALL SIGNS WILL HAVE VERIZON WIRELESS'S NAME AND THE COMPANY CONTACT INFORMATION (e.g. TELEPHONE NUMBER) TO ARRANGE FOR ACCESS TO THE RESTRICTED AREAS. THIS TELEPHONE NUMBER WILL BE PROVIDED TO THE CONTRACTOR BY THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE TIME OF CONSTRUCTION.

7. PHOTOS OF ALL STRIPING, BARRICADES, AND SIGNAGE WILL BE PART OF THE CONTRACTORS CLOSE OUT PACKAGE AND WILL BE TURNED INTO THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER AT THE END OF CONSTRUCTION. STRIPING SHALL BE DONE WITH FADE RESISTANT YELLOW SAFETY PAINT IN A CROSS HATCH PATTERN. ALL BARRICADES SHALL BE MADE OF AN RF FRIENDLY MATERIAL SO THAT THEY DO NOT BLOCK OR INTERFERE WITH THE OPERATION OF THE SITE AND SHALL BE PAINTED WITH FADE RESISTANT YELLOW SAFETY PAINT. THE CONTRACTOR SHALL PROVIDE ALL RF FRIENDLY BARRICADES NEEDED AND SHALL PROVIDE THE VERIZON WIRELESS CONSTRUCTION PROJECT MANAGER WITH A DETAILED SHOP DRAWING OF EACH BARRICADE.

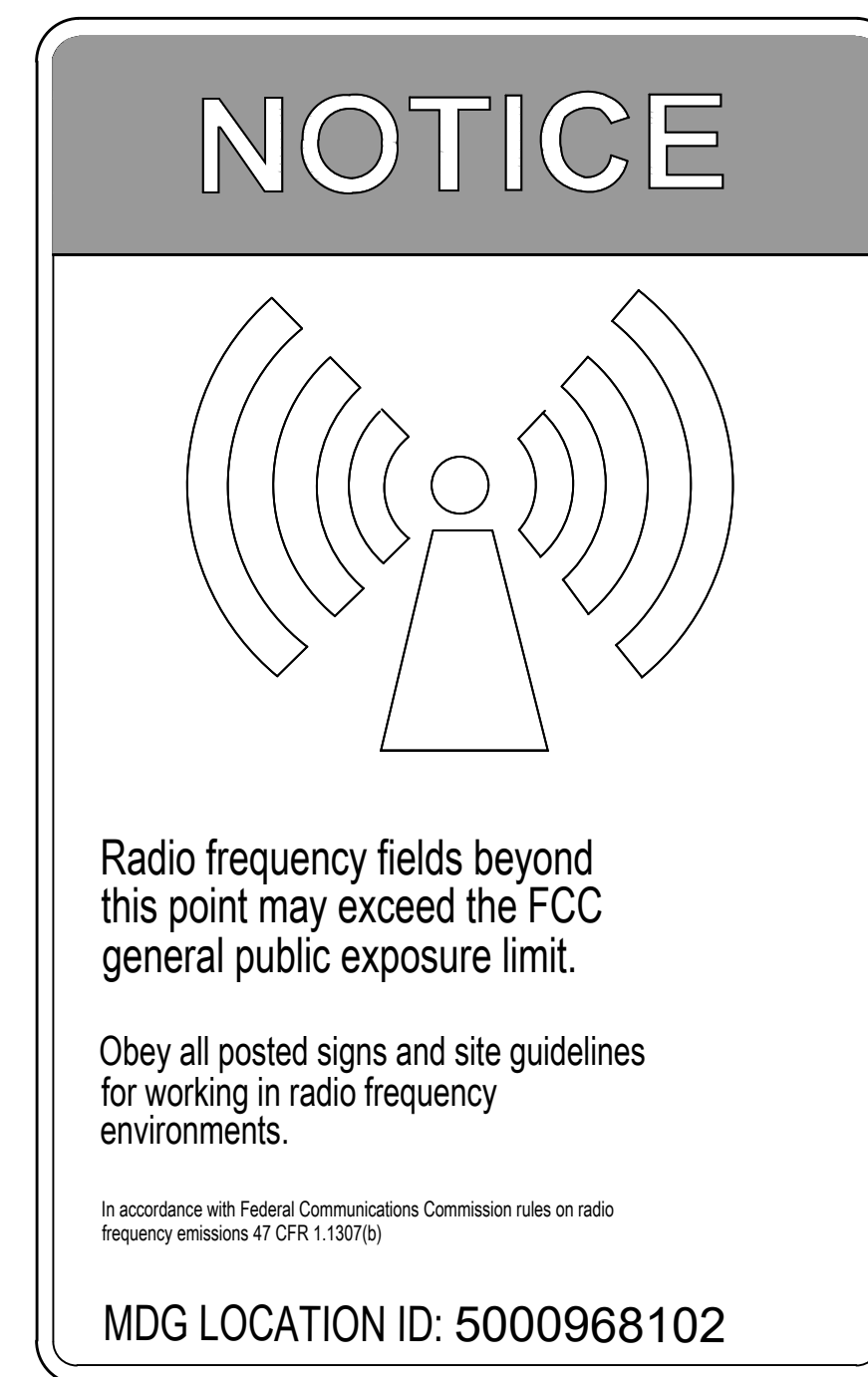
8. ALL REQUIRED SIGNAGE WILL BE INSTALLED AS NEEDED AND FIELD VERIFIED.



① TYPICAL ADDRESS SIGN DETAIL
(@ LEASE AREA ACCESS DOOR)

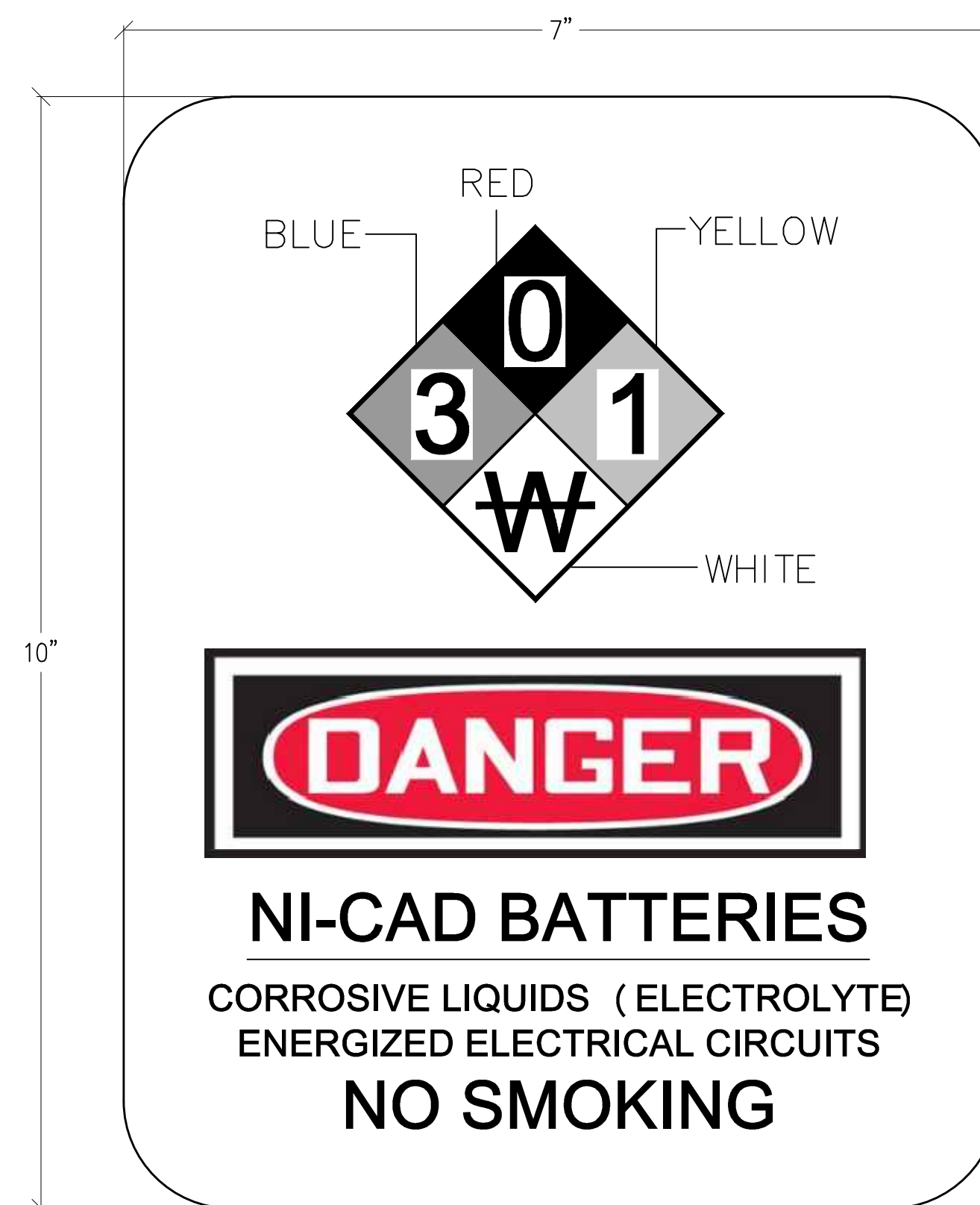


4 TYPICAL HAZARD SIGN

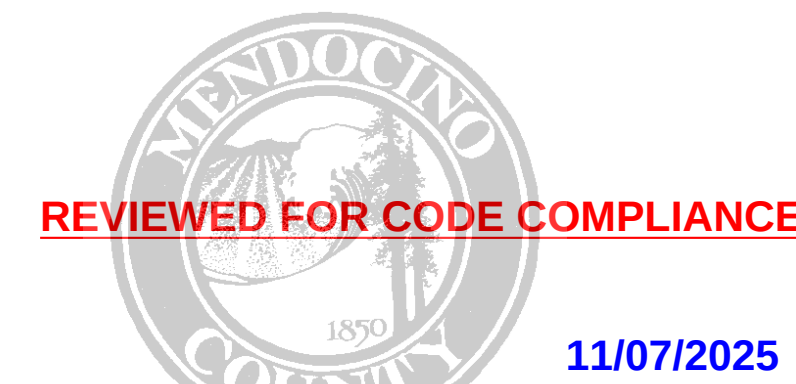


2 TYPICAL CAUTION SIGN

NOTE: SIGN TO BE PERMANENTLY MOUNTED AT ANTENNA LOCATIONS.



5 BATTERY SIGN



3 TYPICAL HAZARD SIGN

Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:



COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID:	5000968102
PROJECT ID:	17393308
DRAWN BY:	FS
CHECKED BY:	N. GEORGE
APPROVED BY:	J. SPORE

ISSUE STATUS			
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Streamline Engineering
and Design, Inc.

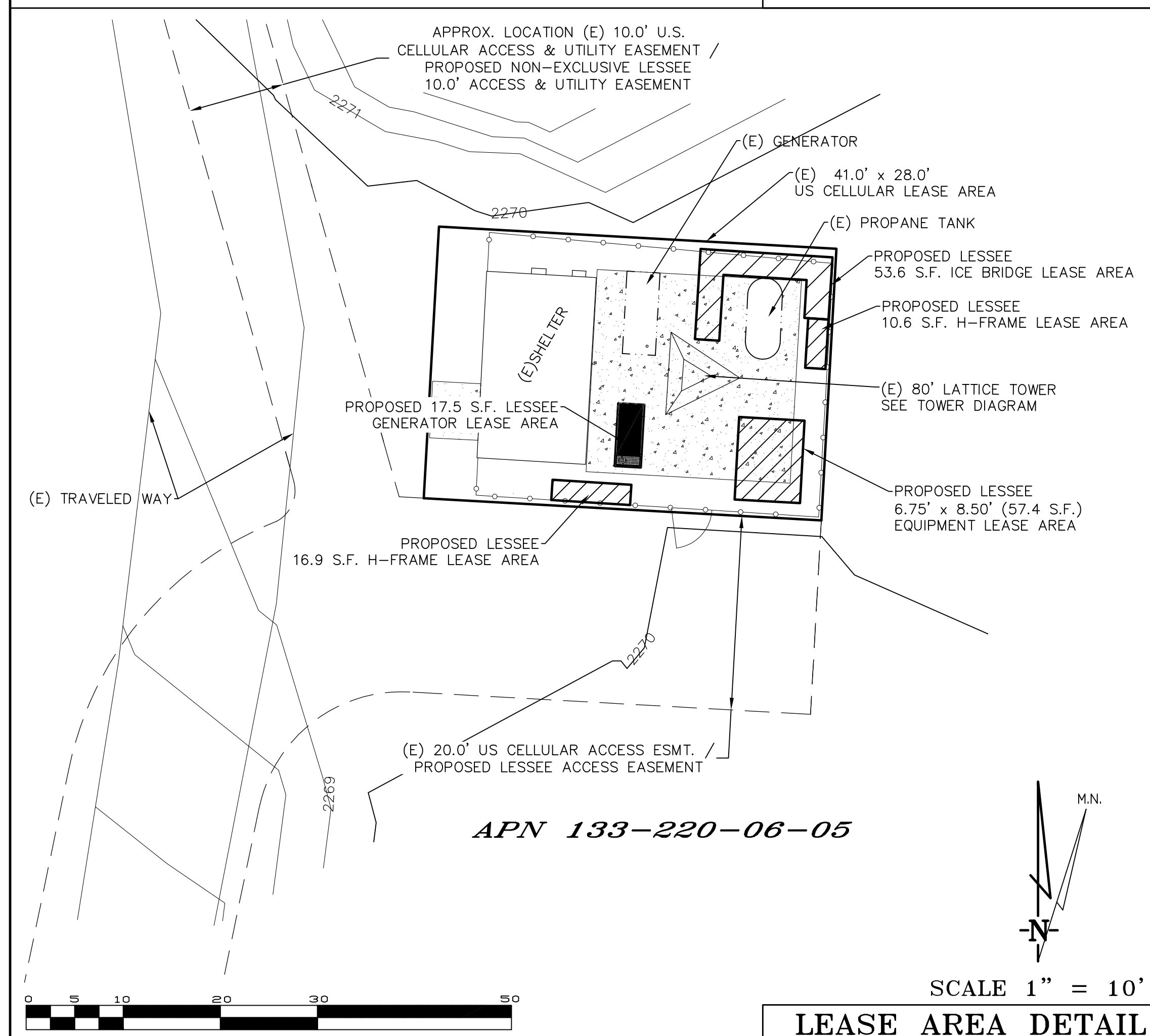
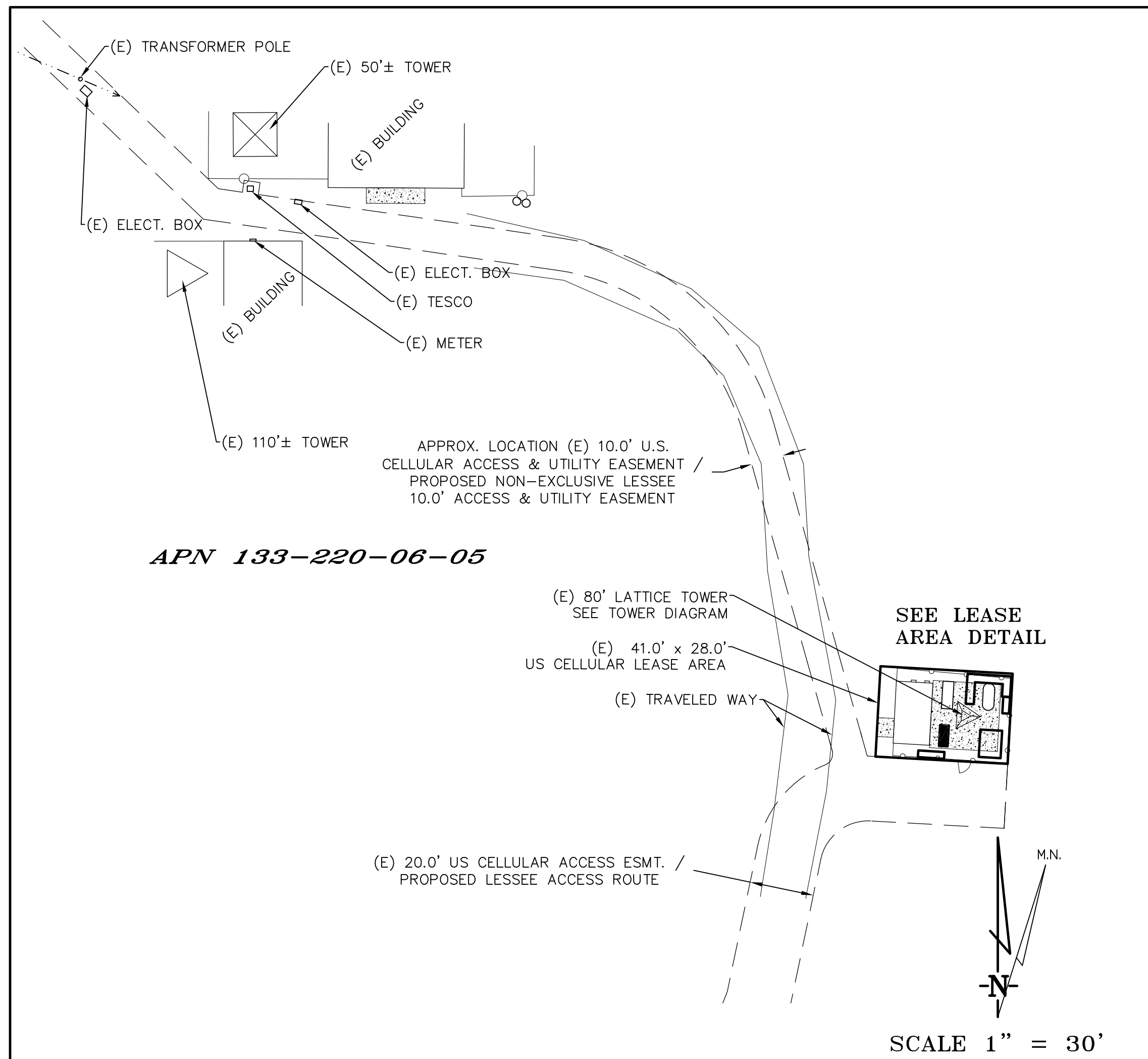
3843 Taylor Road, Suite A, Loomis, CA 95650
 Contact: Kevin Sorenson Phone: 916-660-1941
 E-Mail: kenn@streamlineeng.com Fax: 916-660-1941

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SHEET TITLE:

SIGNAGE
DETAILS

SHEET NUMBER:
T-1.3



DATE OF SURVEY: 04-22-25

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL,
R.C.E. 14803

LOCATED IN THE COUNTY OF MENDOCINO, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND
AND RECORD INFORMATION. THIS IS NOT A BOUNDARY
SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON
U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL
UNLESS OTHERWISE NOTED.

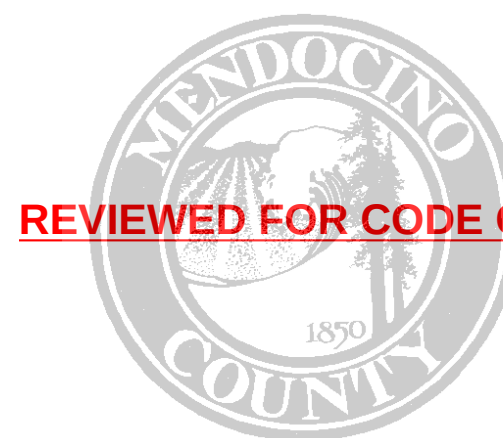
FEMA FIRM ZONE "X" PER FIRM 06045C1775F DATED 06/02/2011.

N.G.V.D. 1929 CORRECTION: SUBTRACT 3.00' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: 1 FT.

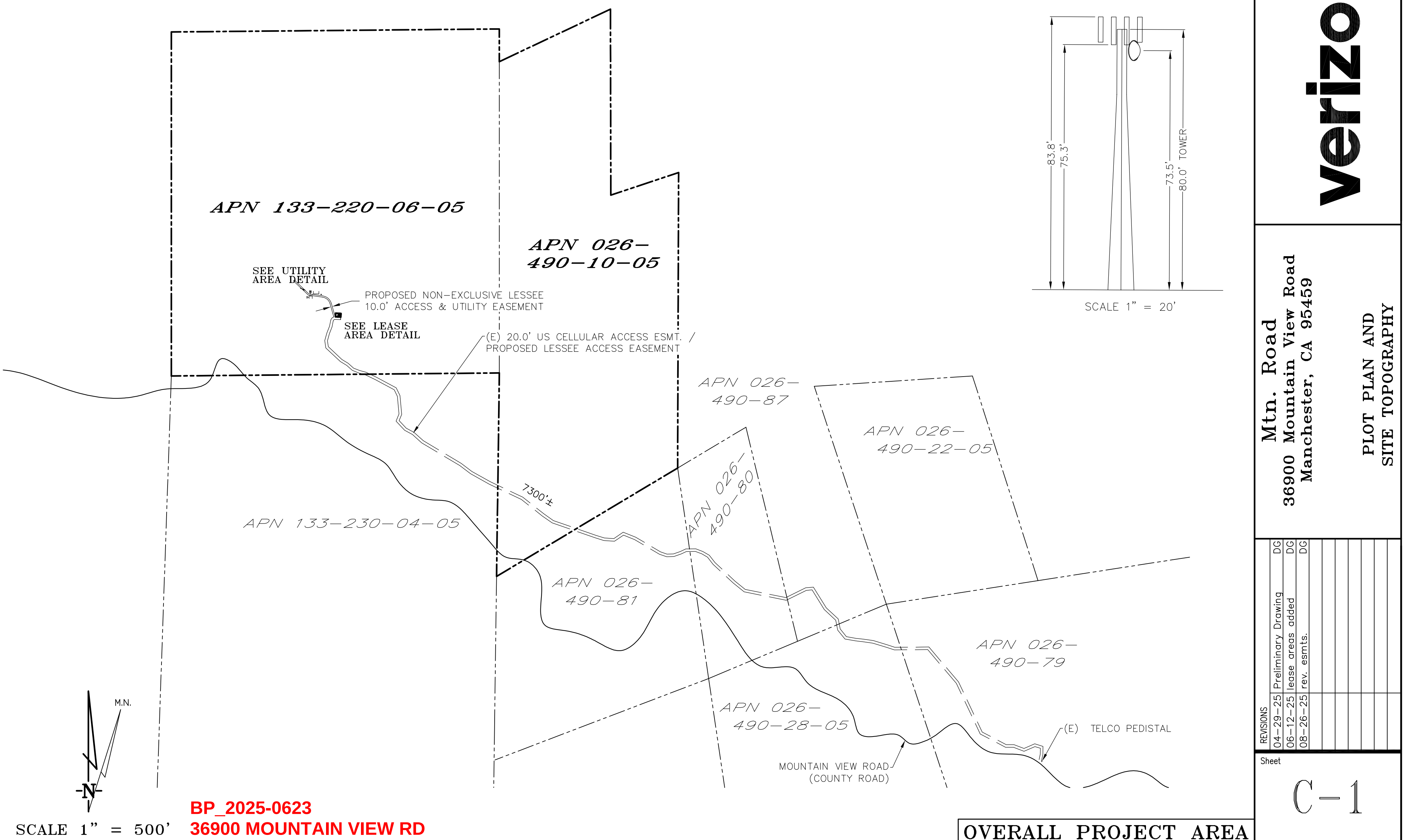
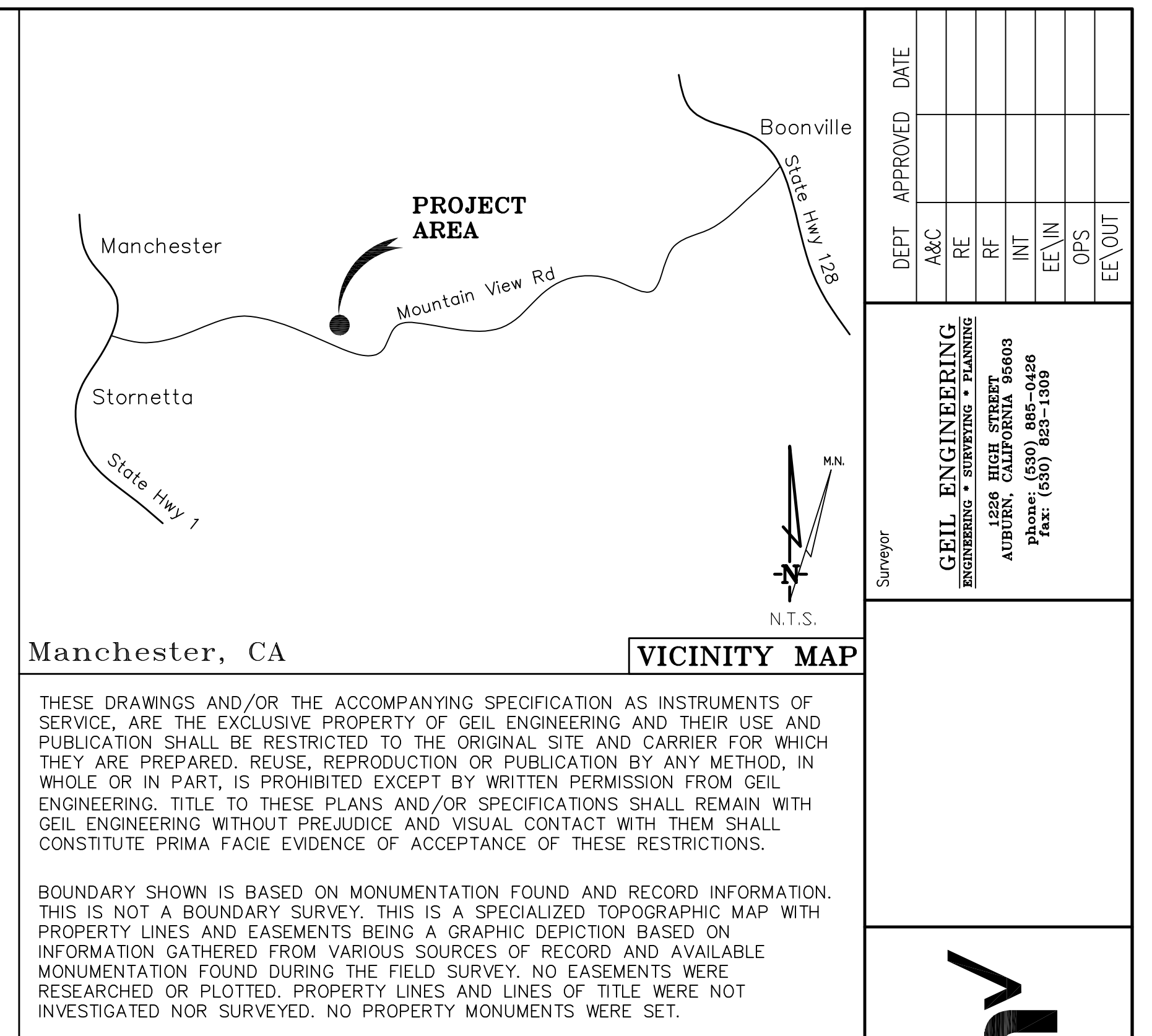
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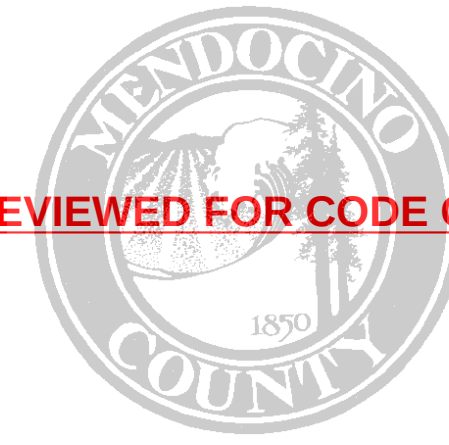
LANDLORD(S): US CELLULAR
8410 WEST BYRN MAWR AVE
CHICAGO, IL 60631



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11/07/2025





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Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR. BLDG 11
WALNUT CREEK, CA 94598

Vendor:



MDG LOCATION ID: 5000968102

PROJECT ID: 17393308

DRAWN BY: FS

CHECKED BY: N. GEORGE

APPROVED BY: J. SPORE

ISSUE STATUS

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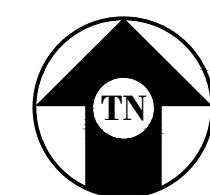
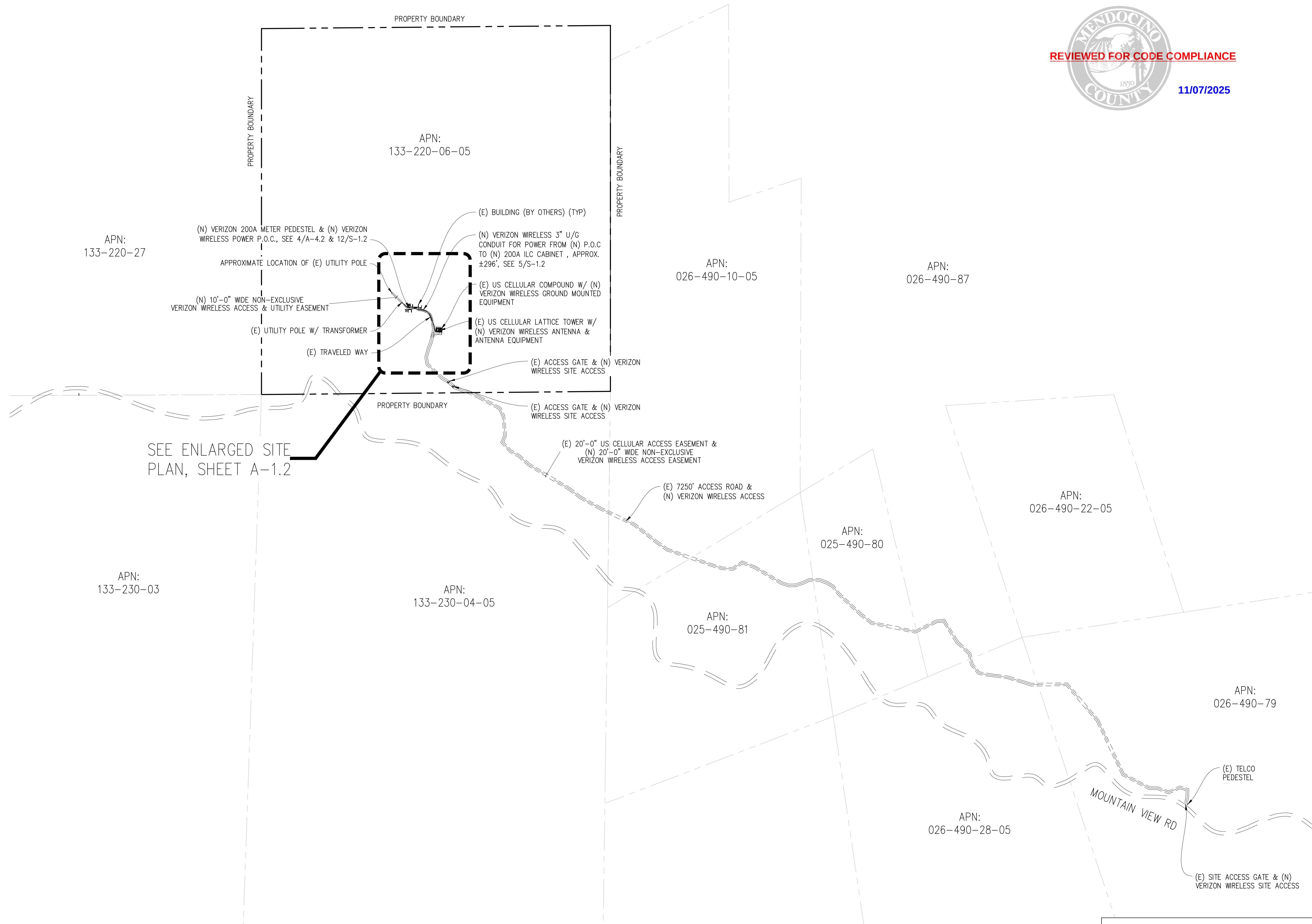


SHEET TITLE:

OVERALL
SITE PLAN

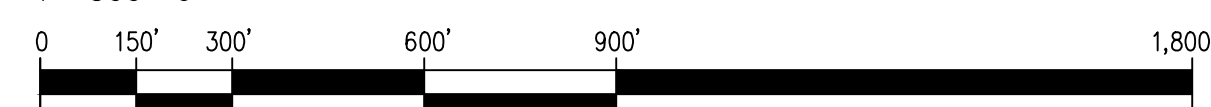
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A-1.1



OVERALL SITE PLAN

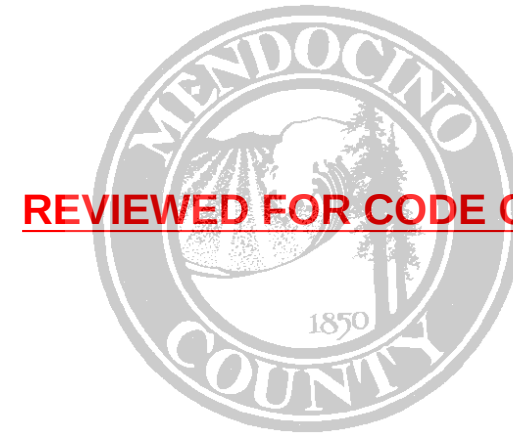
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36900 MOUNTAIN VIEW RD

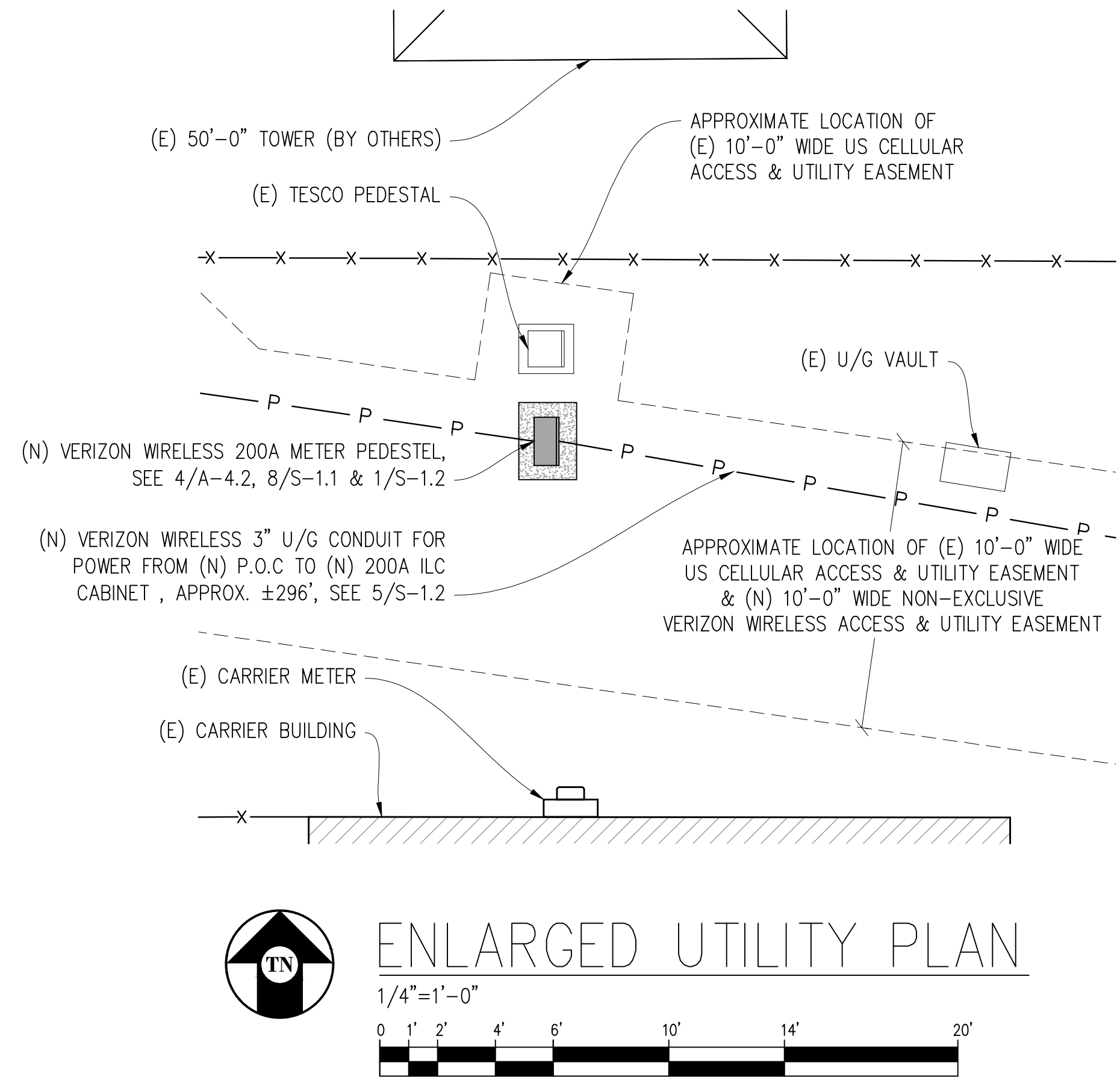
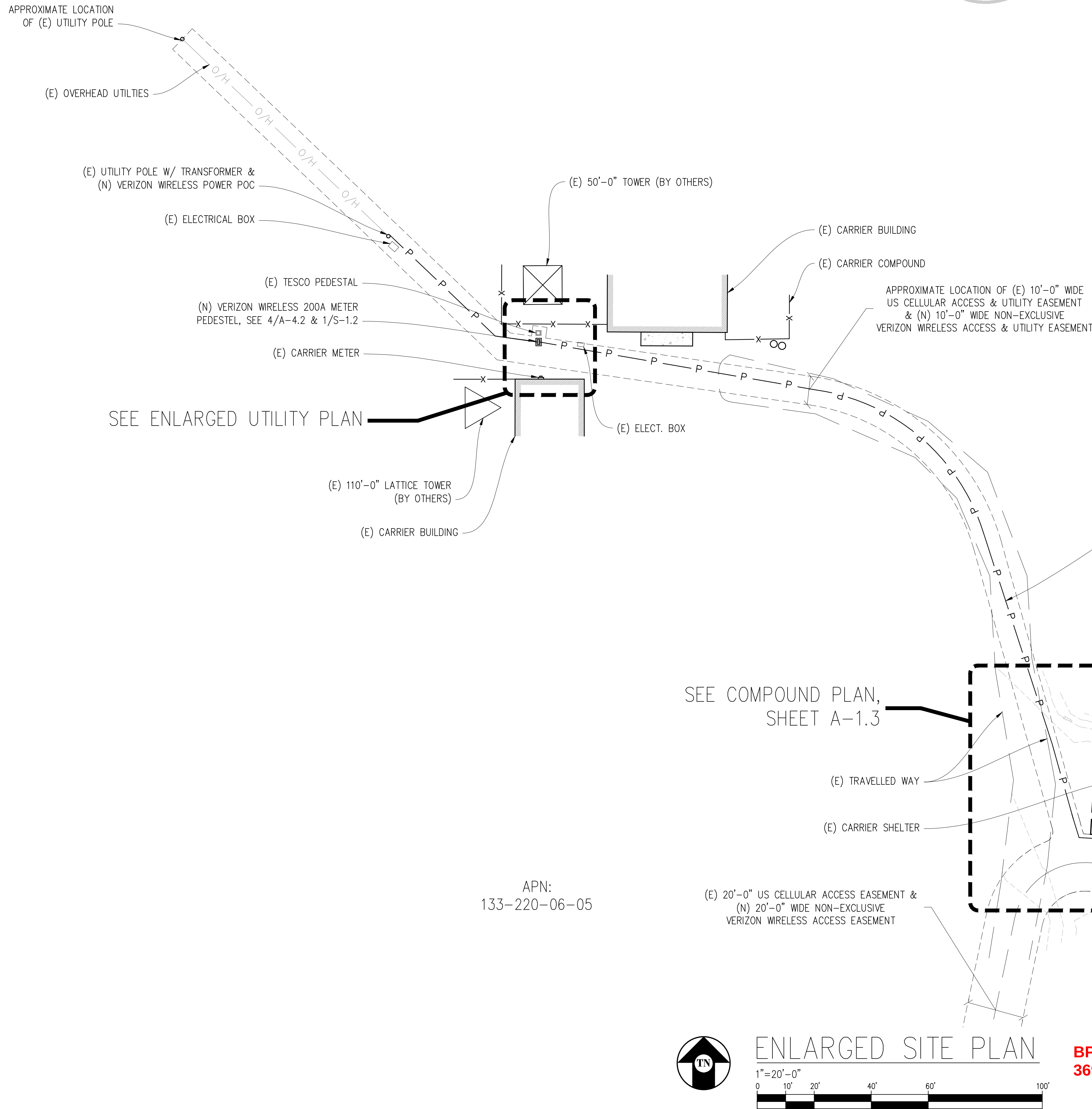
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Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR. BLDG 11
WALNUT CREEK, CA 94598

Vendor:



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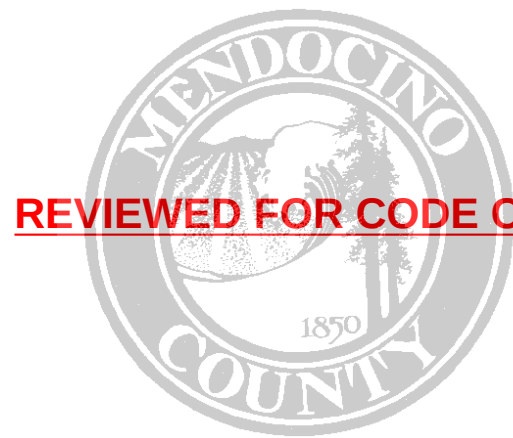


SHEET TITLE:

ENLARGED SITE
PLAN

SHEET NUMBER:

A-1.2



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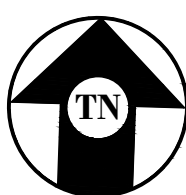
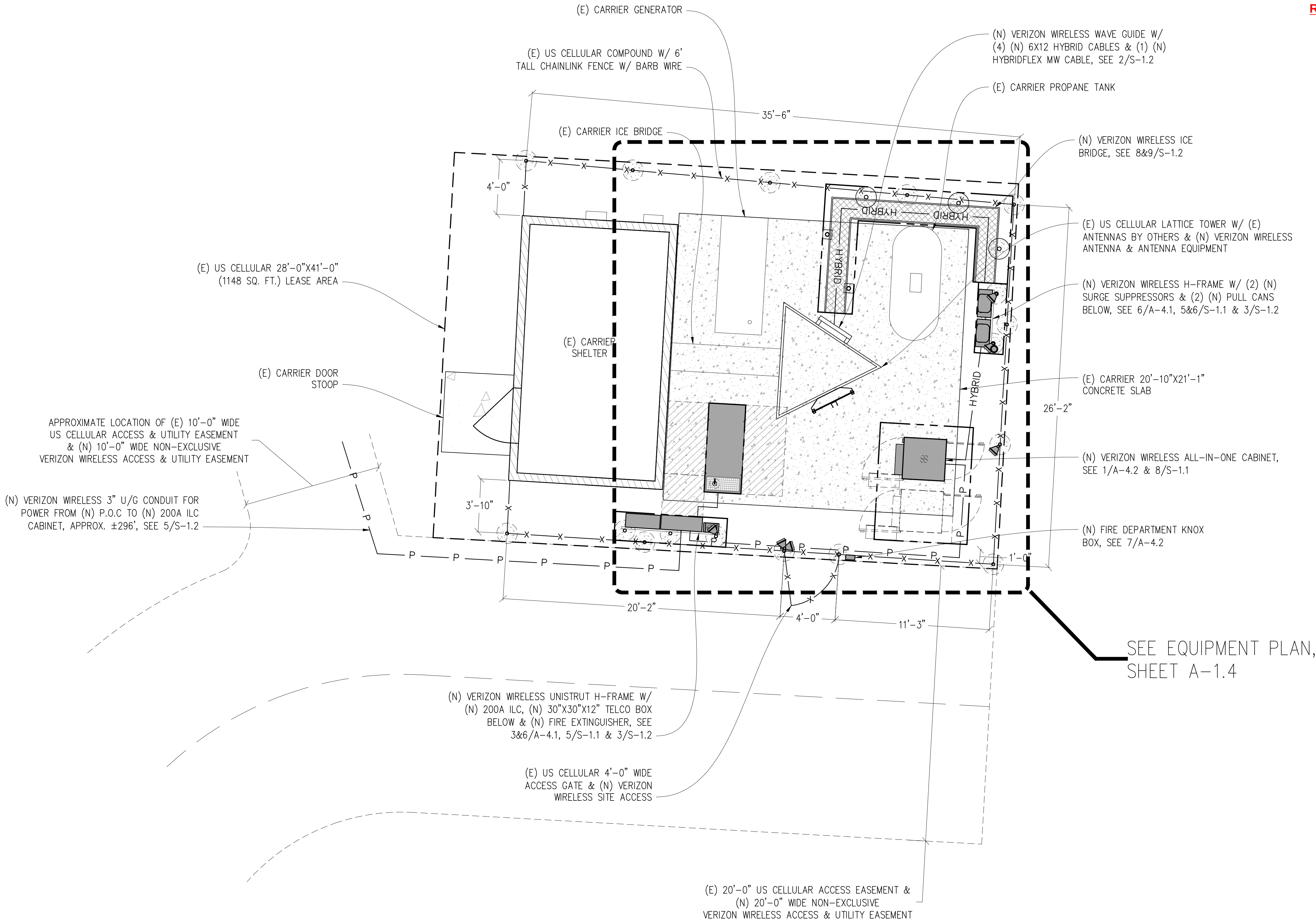
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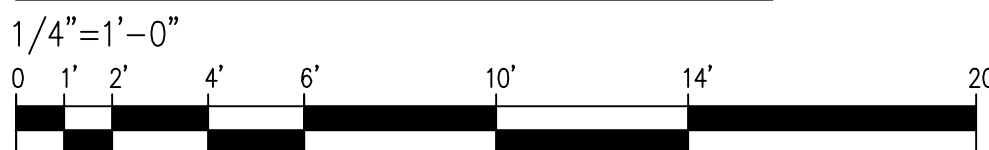
COMPOUND
PLAN

SHEET NUMBER:

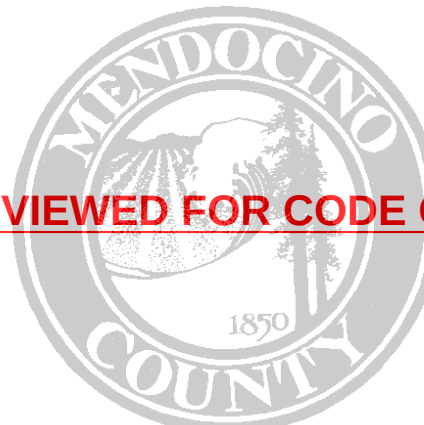
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COMPOUND PLAN



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36900 MOUNTAIN VIEW RD



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36900 MOUNTAIN VIEW ROAD
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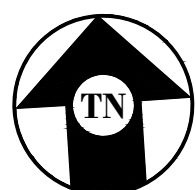
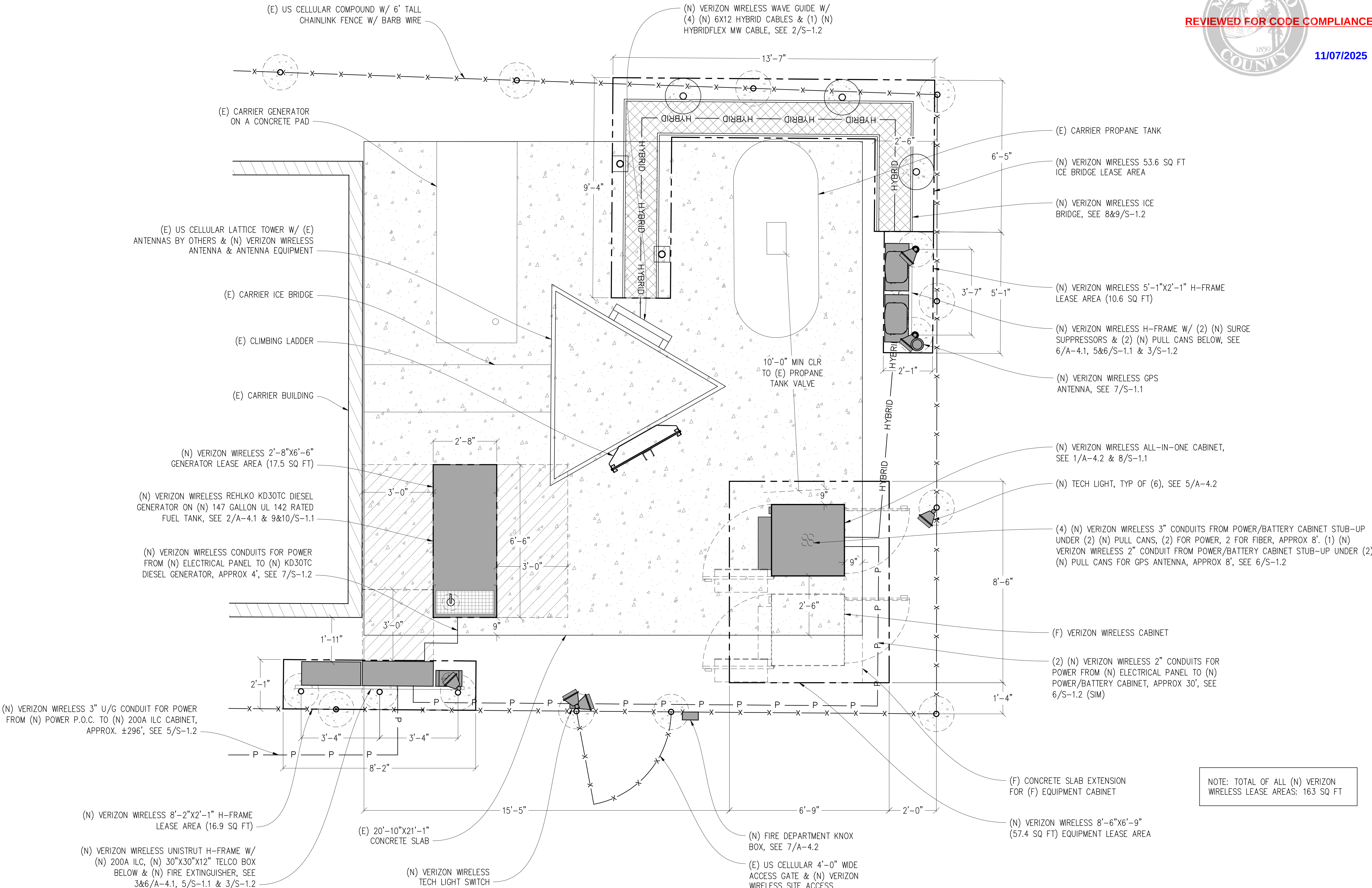


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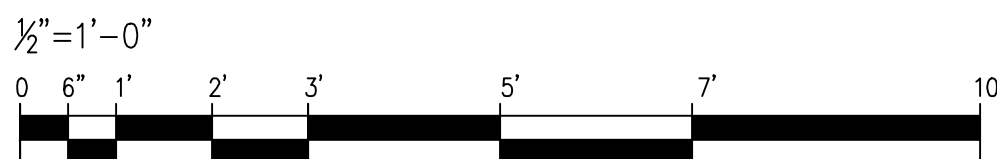
**EQUIPMENT
PLAN**

SHEET NUMBER:

A-1.4



EQUIPMENT PLAN

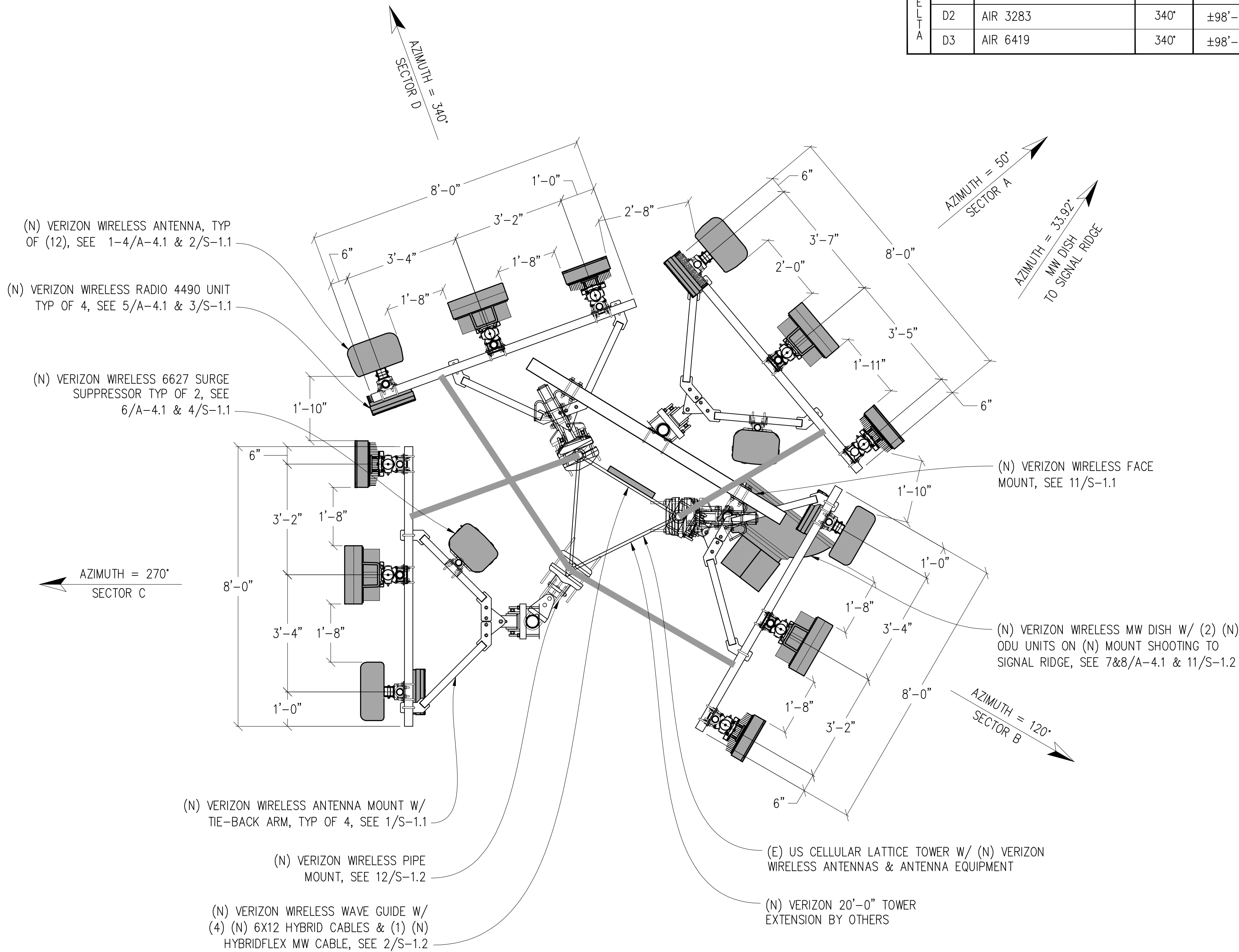


**BP_2025-0623
36900 MOUNTAIN VIEW RD**

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(N) RF SCHEDULE (PRELIMINARY & SUBJECT TO CHANGE)							
SECTOR		ANTENNA MODEL NO.	AZIMUTH	CENTERLINE	RRU NO'S & MODEL #	# OF HYBRID CABLES	SURGE SUPPRESSOR
ALPHA	A1	QUINTEL-ND868-5C	50°	±96'-0"	(1) 4490	2	(1) 6627
	A2	AIR 3283	50°	±98'-0"	INTEGRATED	SHARED	SHARED
	A3	AIR 6419	50°	±98'-0"	INTEGRATED	SHARED	SHARED
BETA	B1	JMA MX04FR0845-02E	120°	±96'-0"	(1) 4490	SHARED	SHARED
	B2	AIR 3283	120°	±98'-0"	INTEGRATED	SHARED	SHARED
	B3	AIR 6419	120°	±98'-0"	INTEGRATED	SHARED	SHARED
GAMMA	C1	JMA MX04FR0845-02E	270°	±96'-0"	(1) 4490	2	(1) 6627
	C2	AIR 3283	270°	±98'-0"	INTEGRATED	SHARED	SHARED
	C3	AIR 6419	270°	±98'-0"	INTEGRATED	SHARED	SHARED
DELTA	D1	QUINTEL-ND868-5C	340°	±96'-0"	(1) 4490	SHARED	SHARED
	D2	AIR 3283	340°	±98'-0"	INTEGRATED	SHARED	SHARED
	D3	AIR 6419	340°	±98'-0"	INTEGRATED	SHARED	SHARED



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MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

MDG LOCATION ID:	5000968102
PROJECT ID:	17393308
DRAWN BY:	FS
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ENGINEER:

3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

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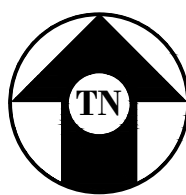
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SHEET NUMBER:

A-2.1

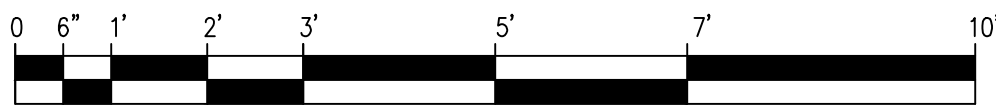
NOTE:
TOWER ENGINEERING SOLUTIONS, LLC IS PREPARING ALL MOUNT ANALYSIS AND MOUNT MODIFICATION DRAWINGS (WHEN REQUIRED). SEE SEPARATE PACKAGE FOR ALL DOCUMENTS.

NOTICE
EXISTING TOWER W/ (N) EXTENSION TO BE ANALYZED BY OTHERS. STREAMLINE ENGINEERING & DESIGN INC. IS NOT RESPONSIBLE FOR THE EVALUATION OF THE EXISTING TOWER W/ (N) EXTENSION, BASE PLATE, ANCHOR BOLTS, FOUNDATION OR ANTENNA/RRU MOUNT FRAMING & CONNECTIONS FOR THE EXISTING AND NEW LOADING CONDITIONS.

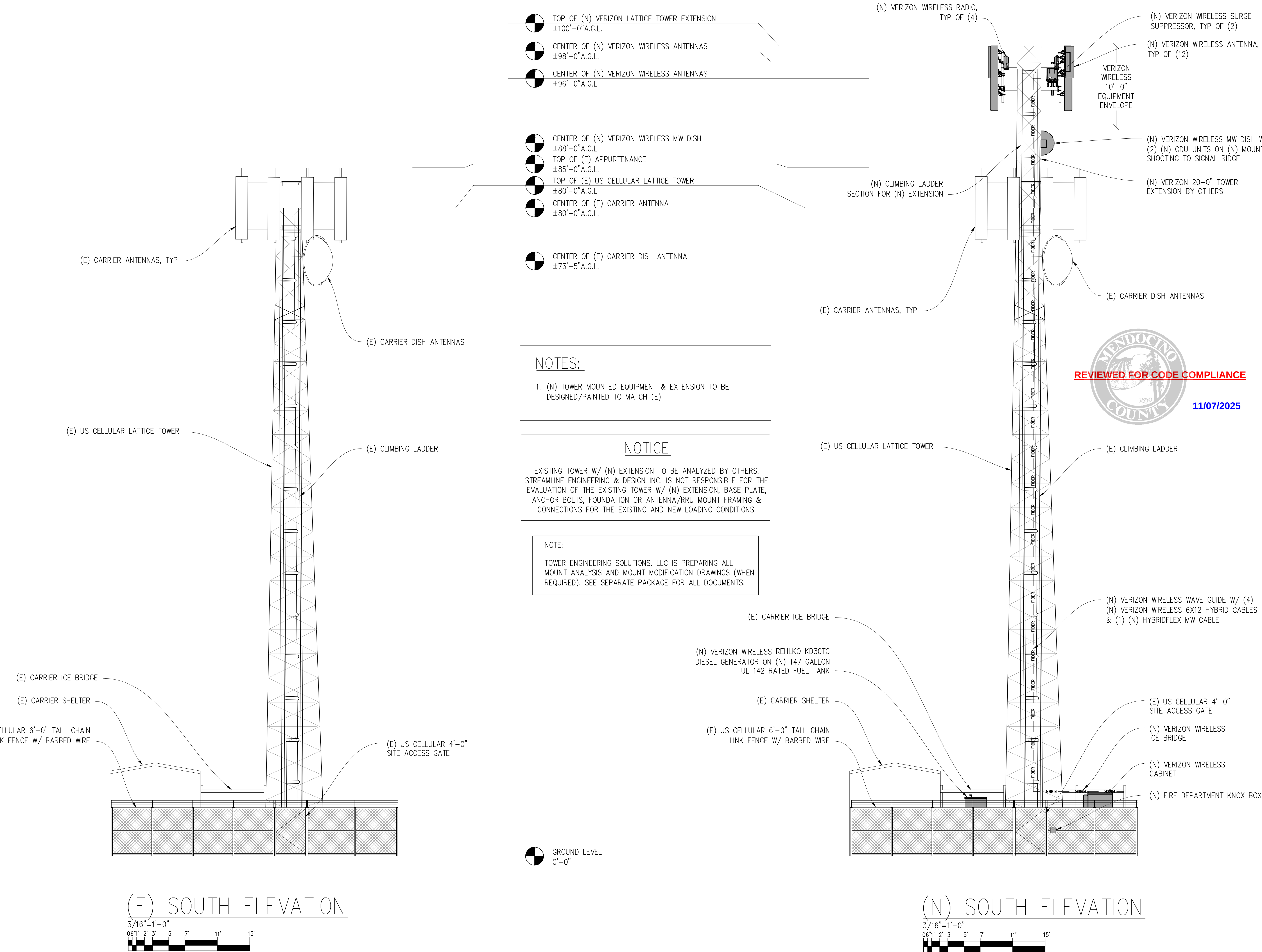


ANTENNA PLAN

1/2"=1'-0"



BP_2025-0623
36900 MOUNTAIN VIEW RD



Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR. BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID: 5000968102

PROJECT ID: 17393308

DRAWN BY: FS

CHECKED BY: N. GEORGE

APPROVED BY: J. SPORE

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Contact: Kevin Sorenson Phone: 916-680-1930
E-Mail: kevin@streamlineeng.com Fax: 916-680-1941
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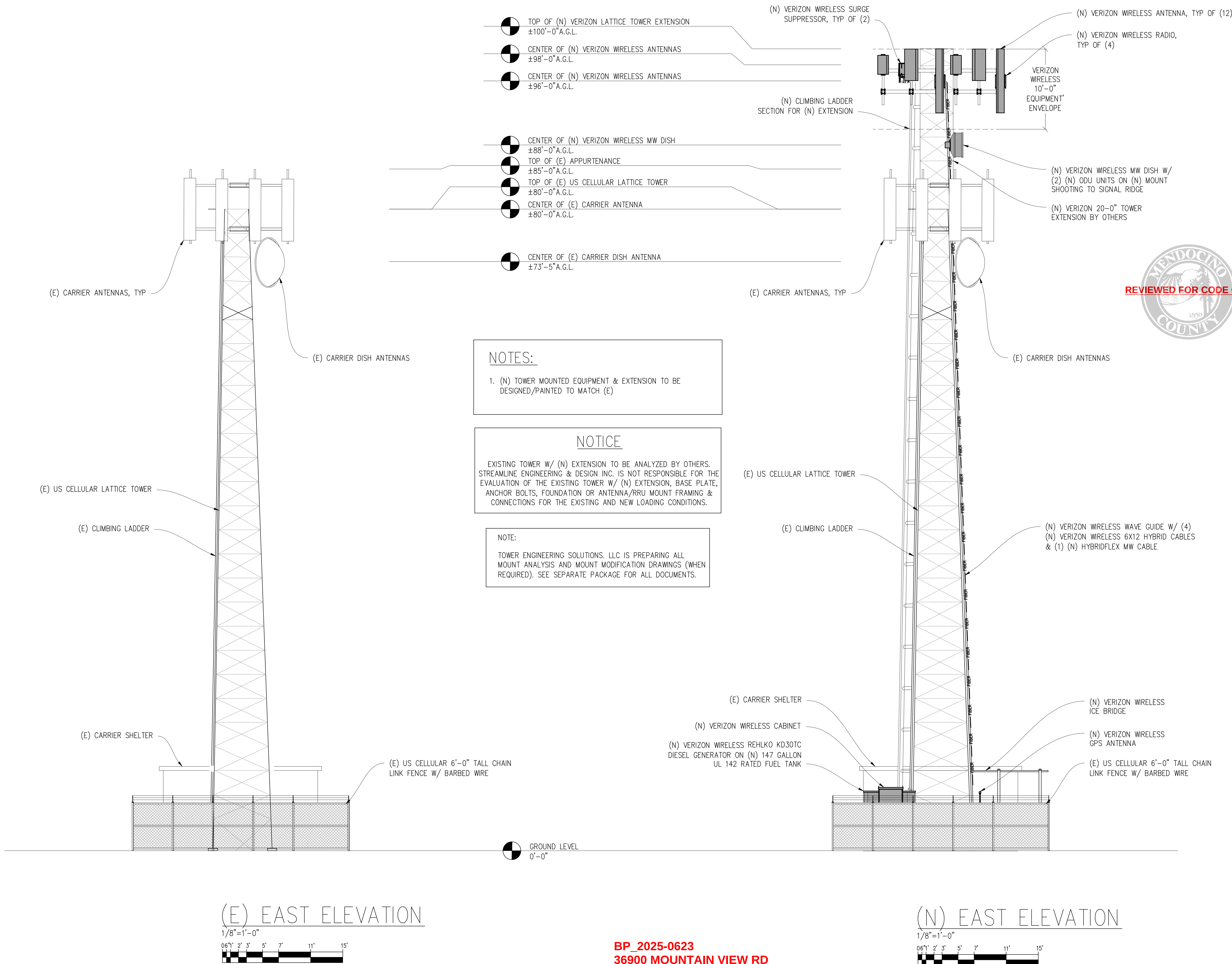
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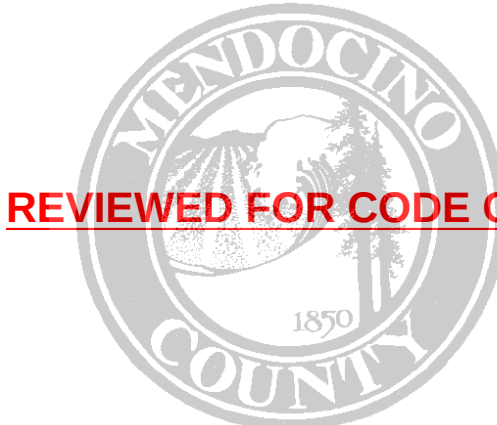
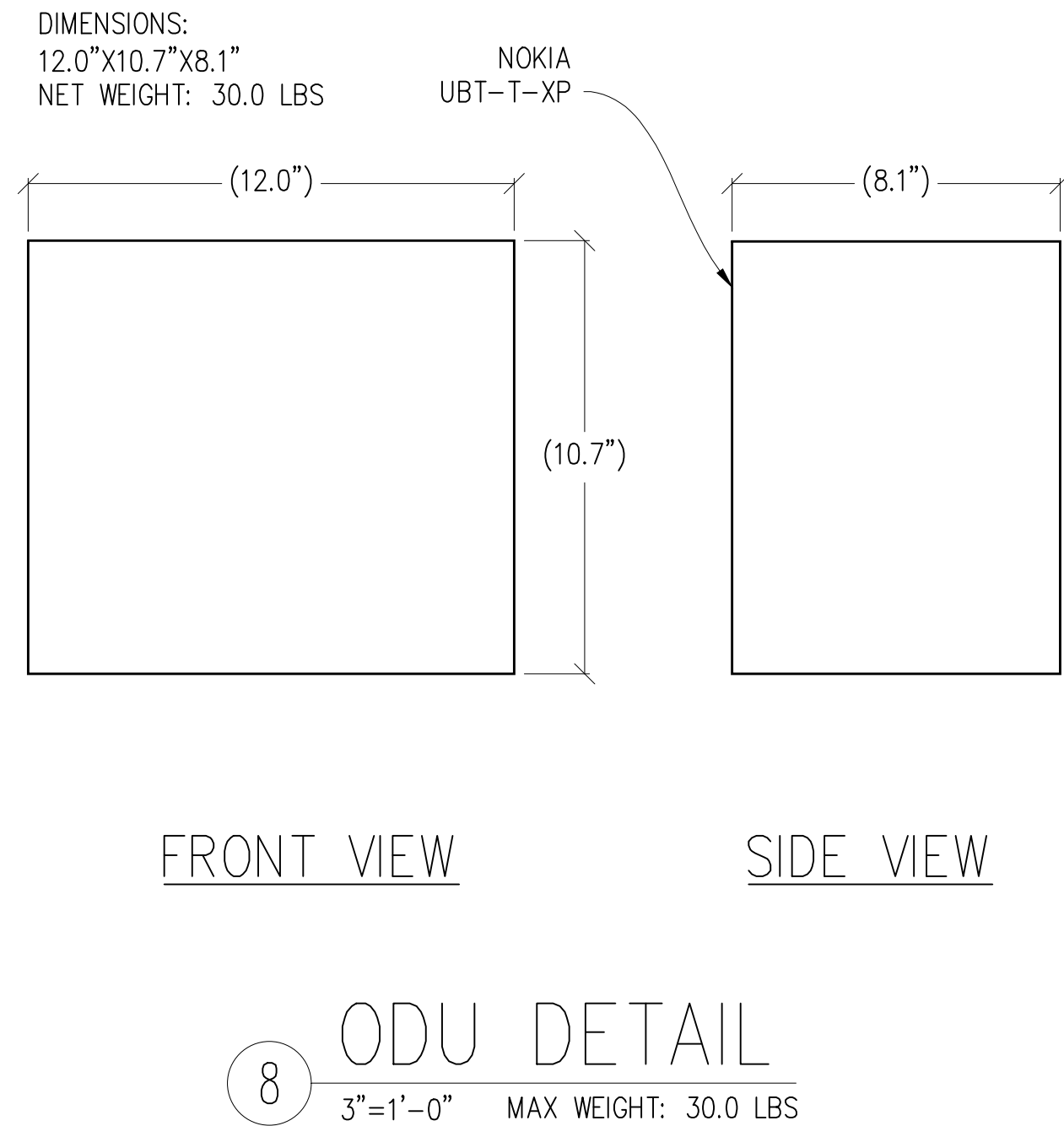
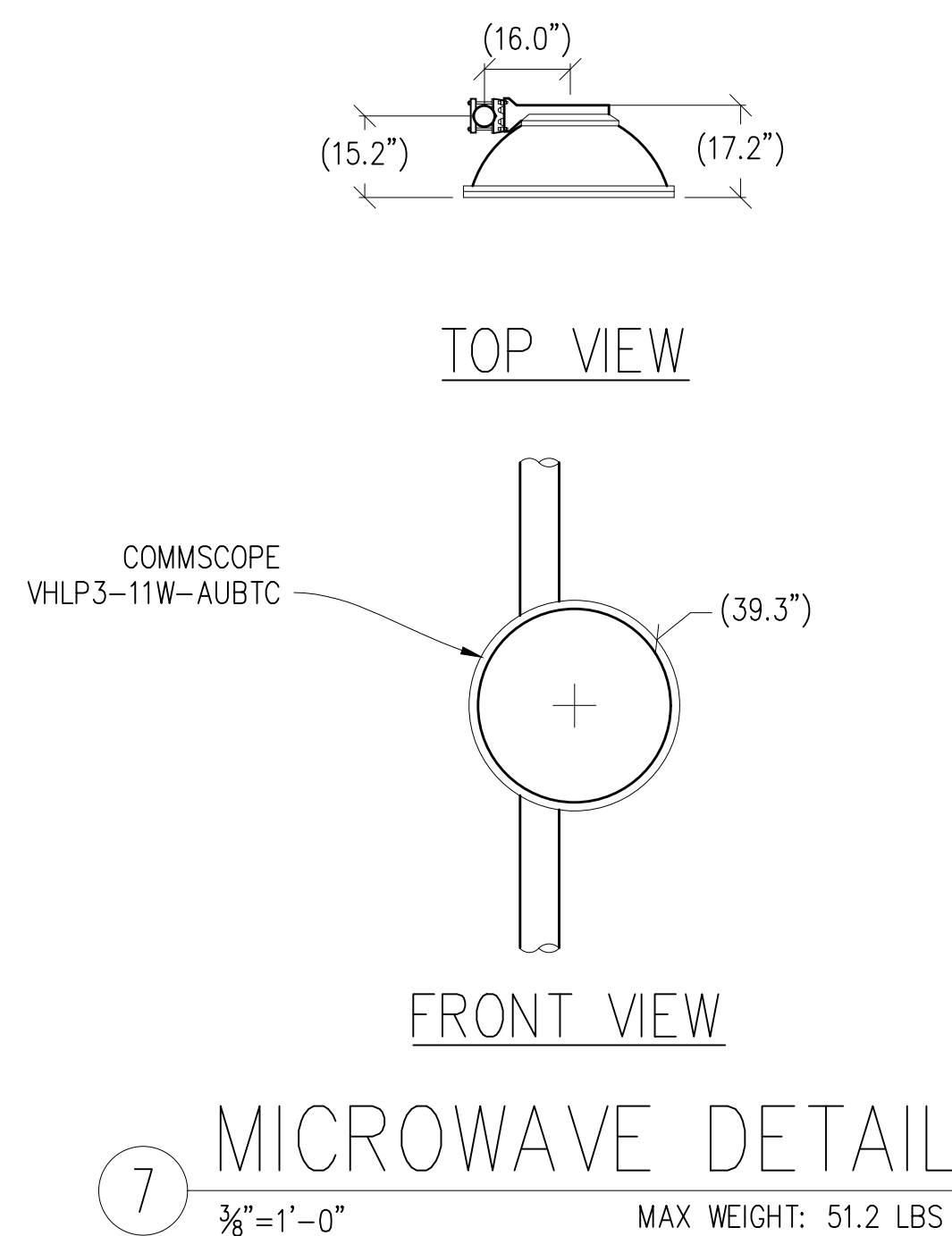
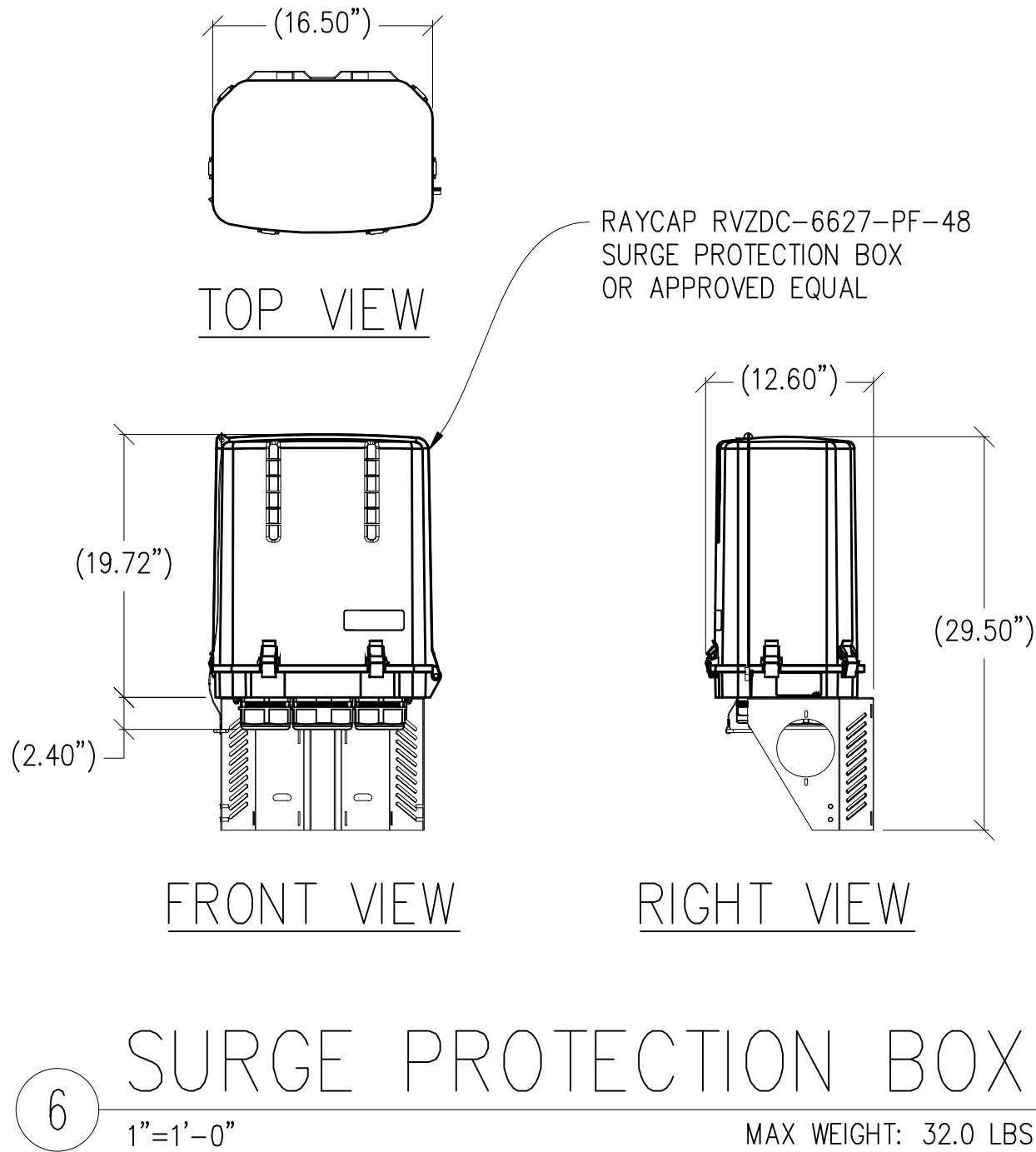
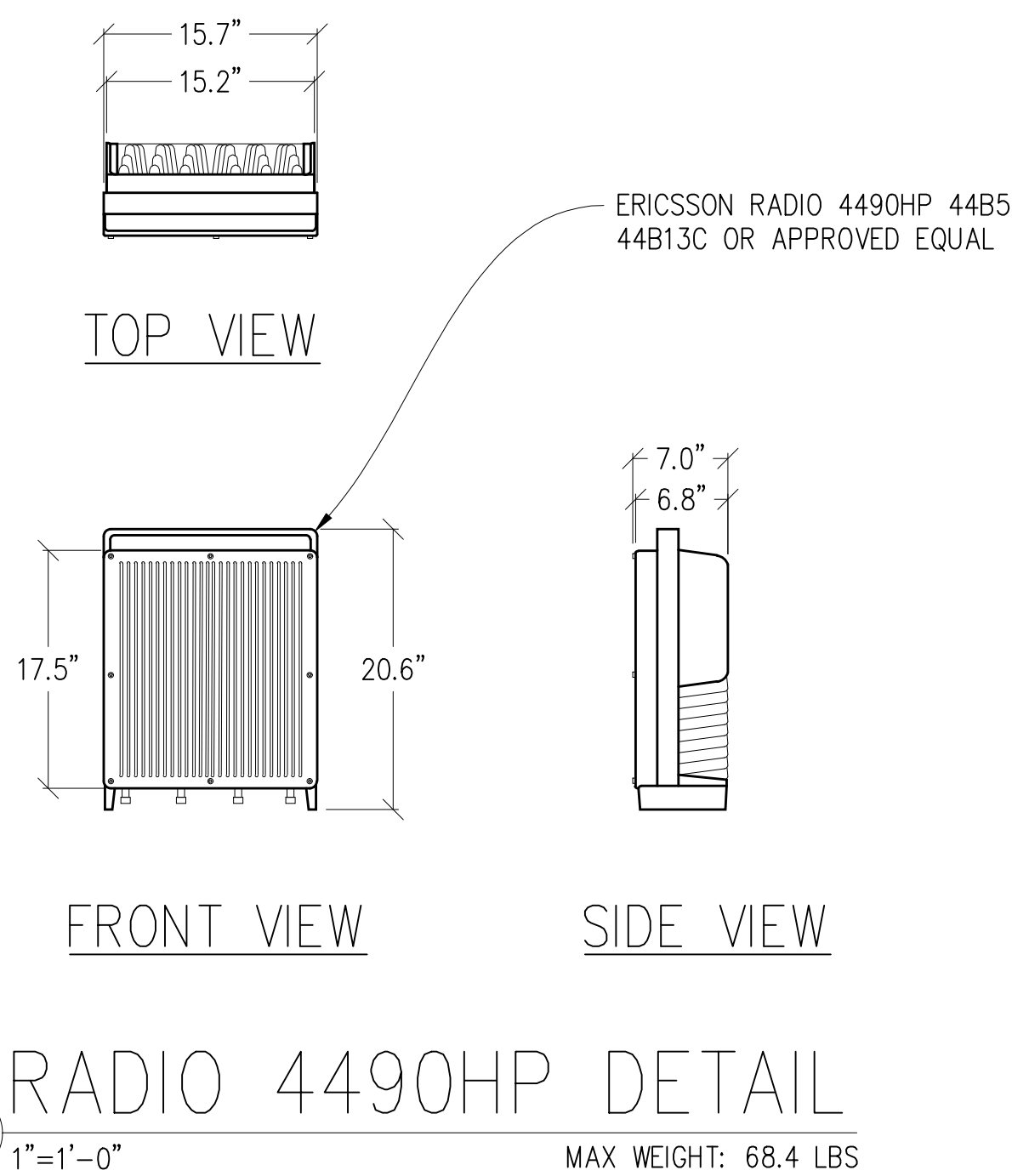
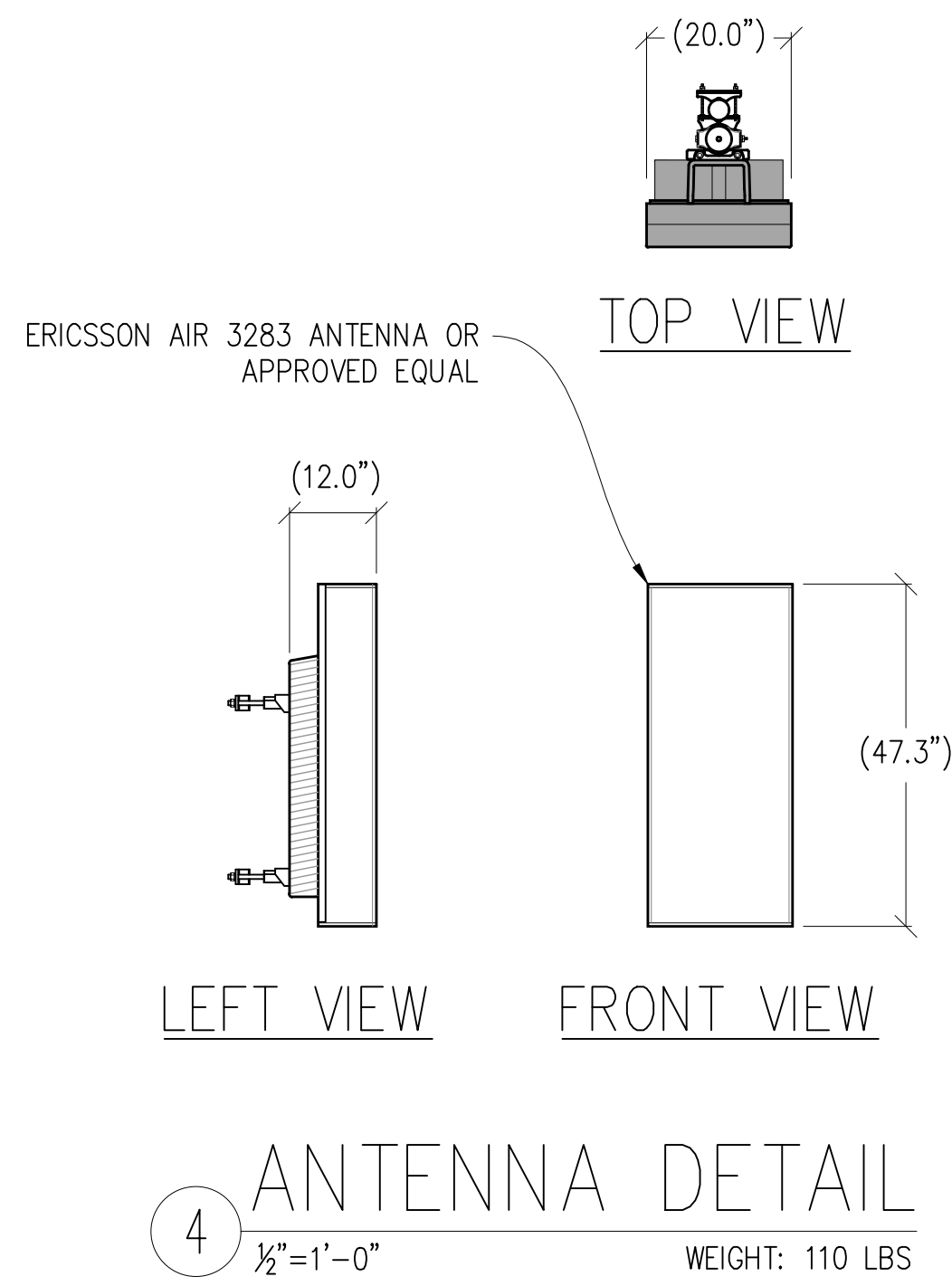
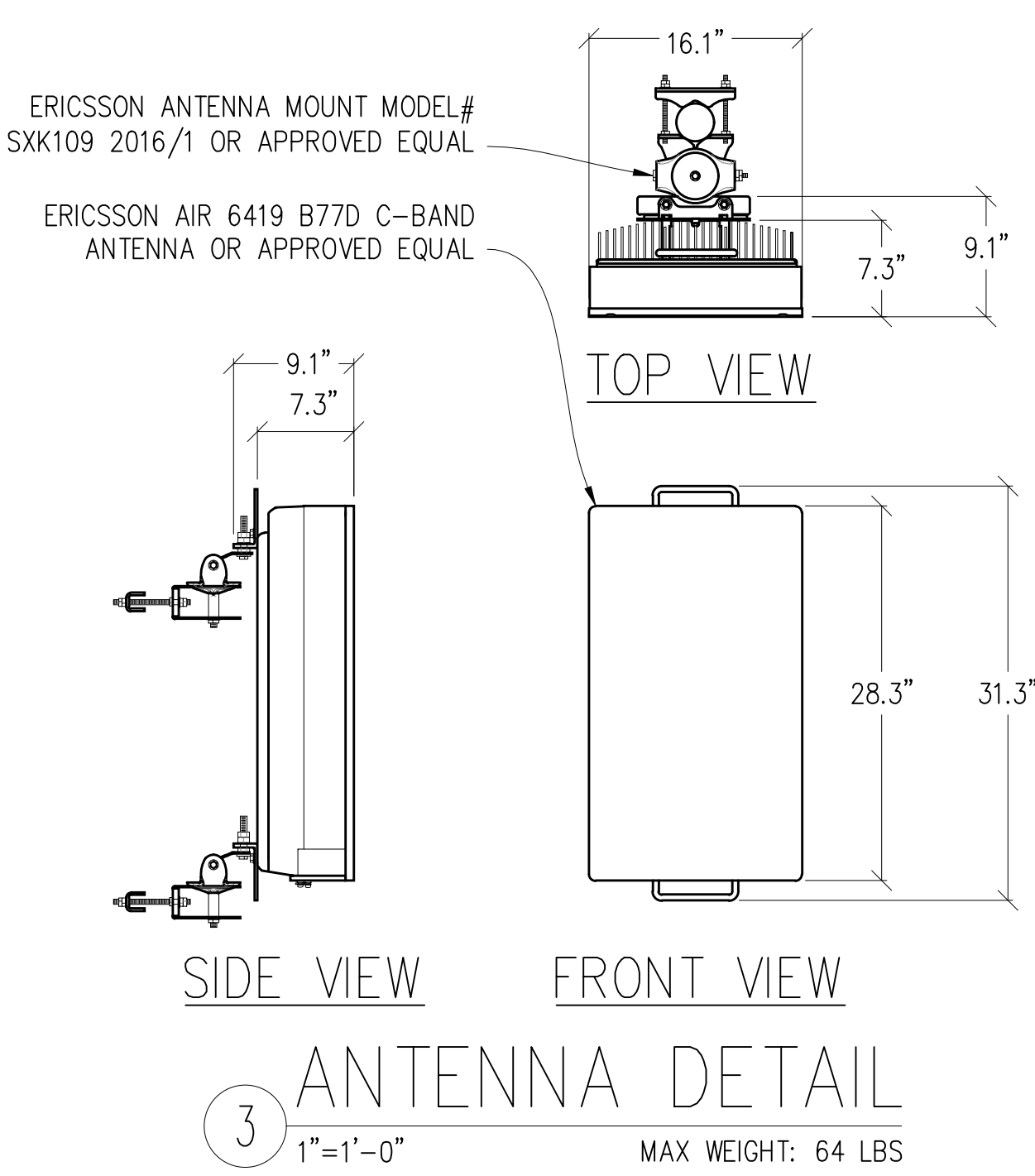
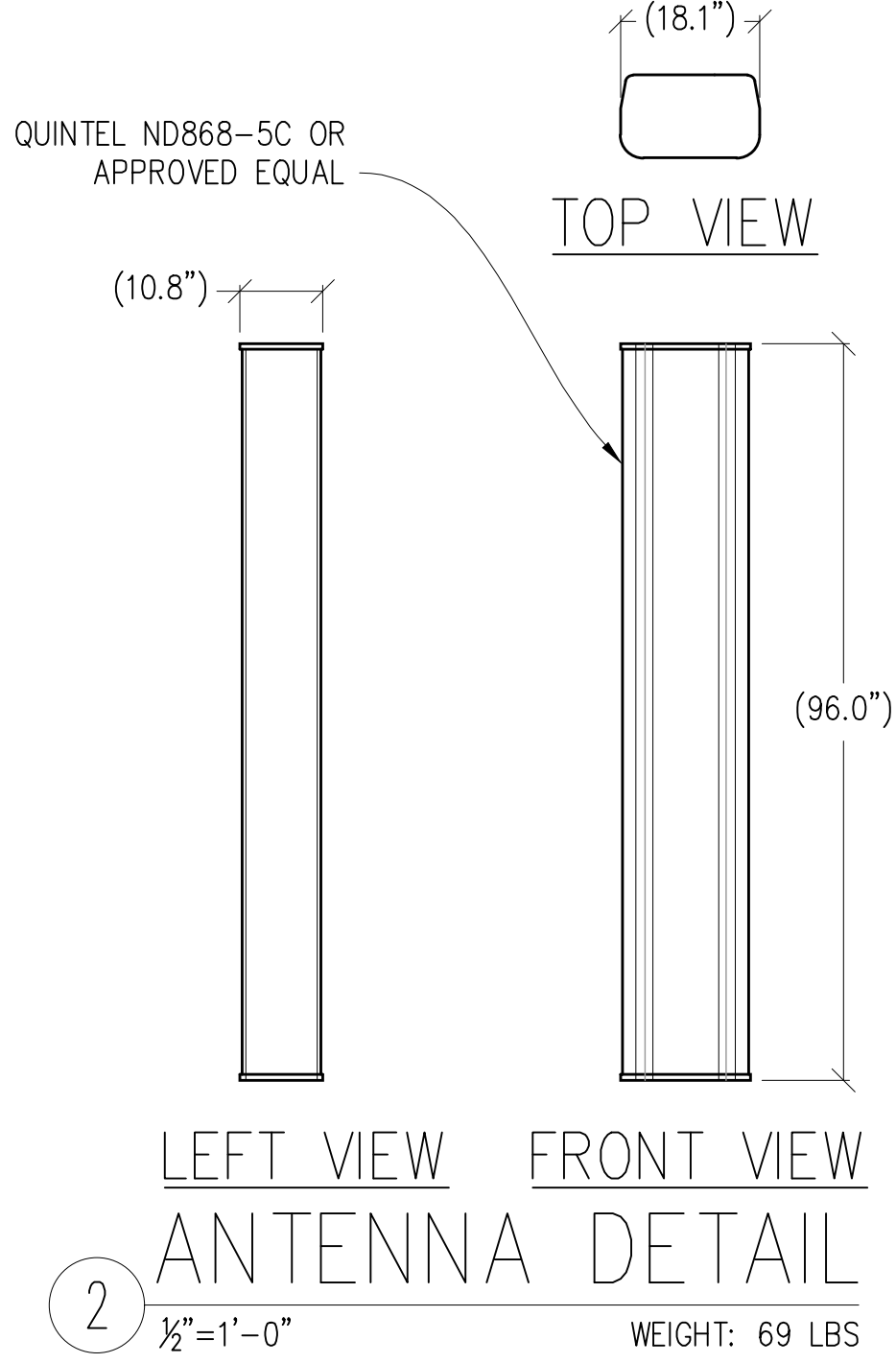
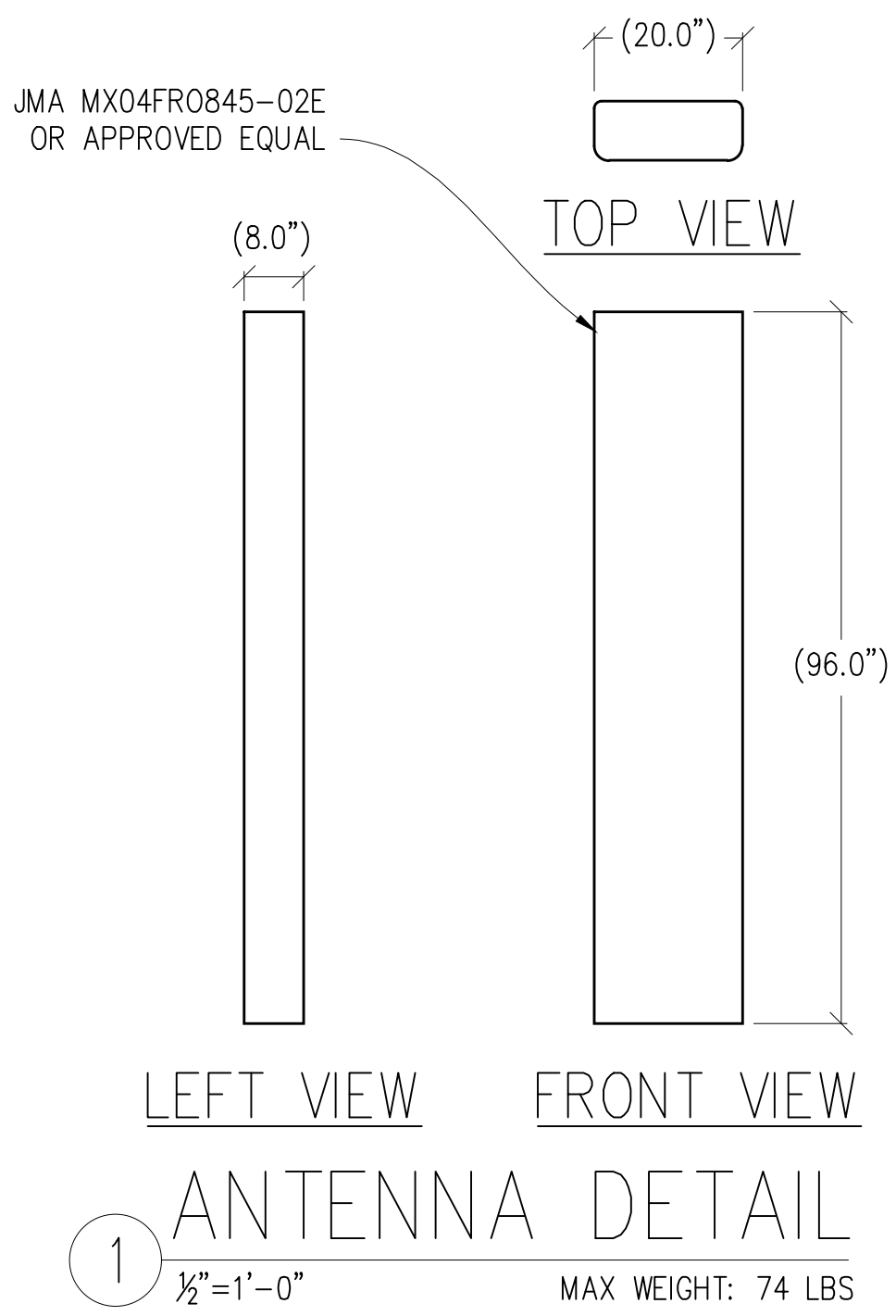
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Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID: 5000968102

PROJECT ID: 17393308

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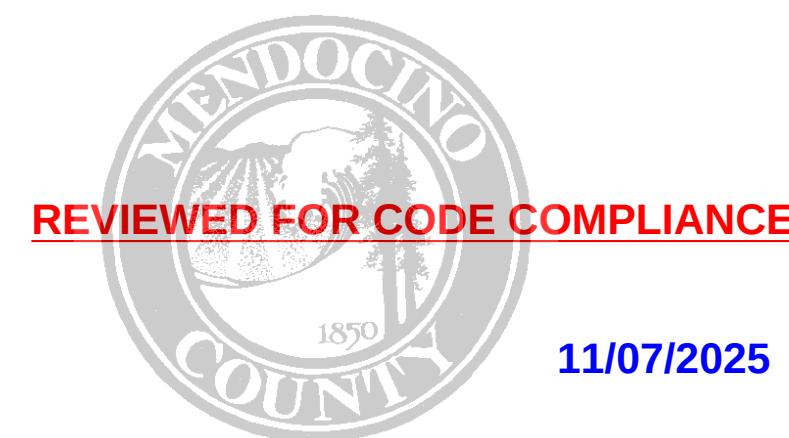
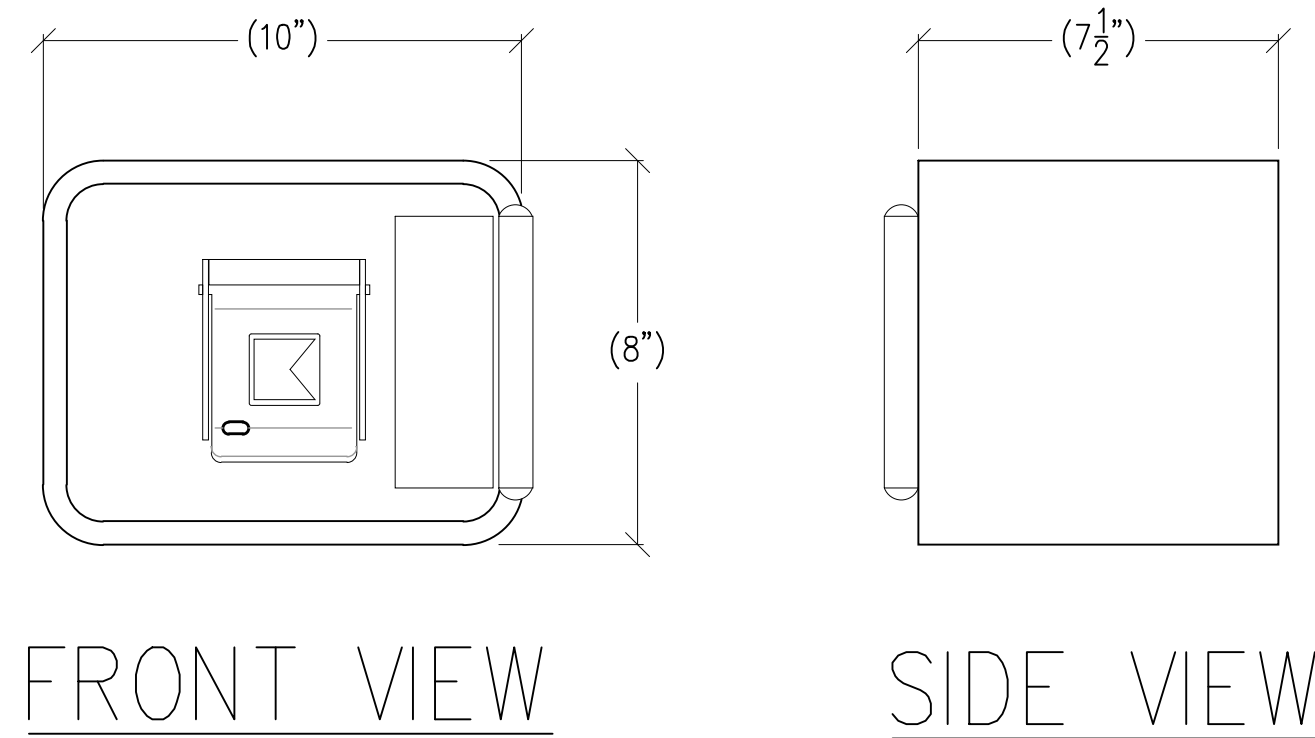
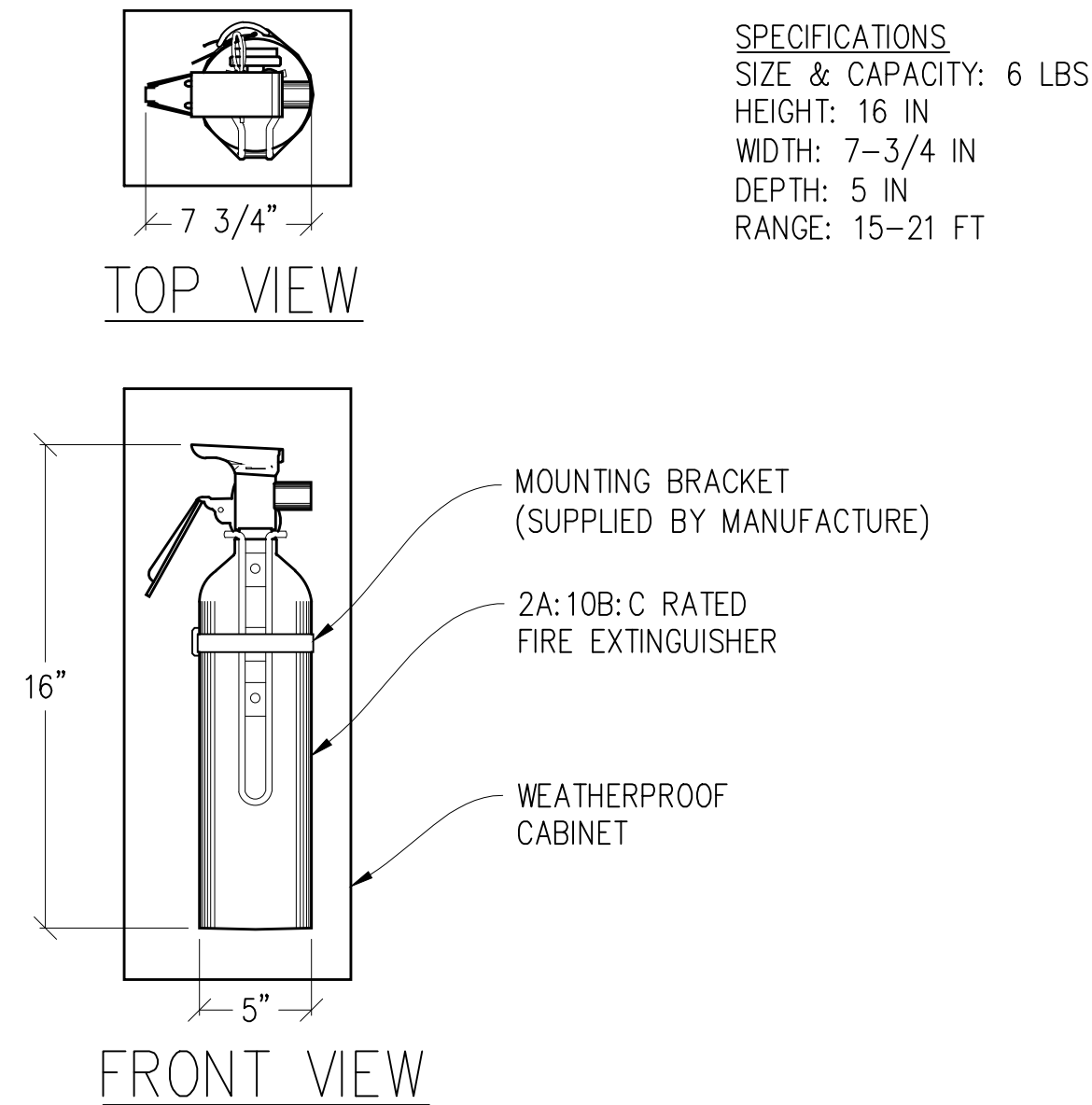
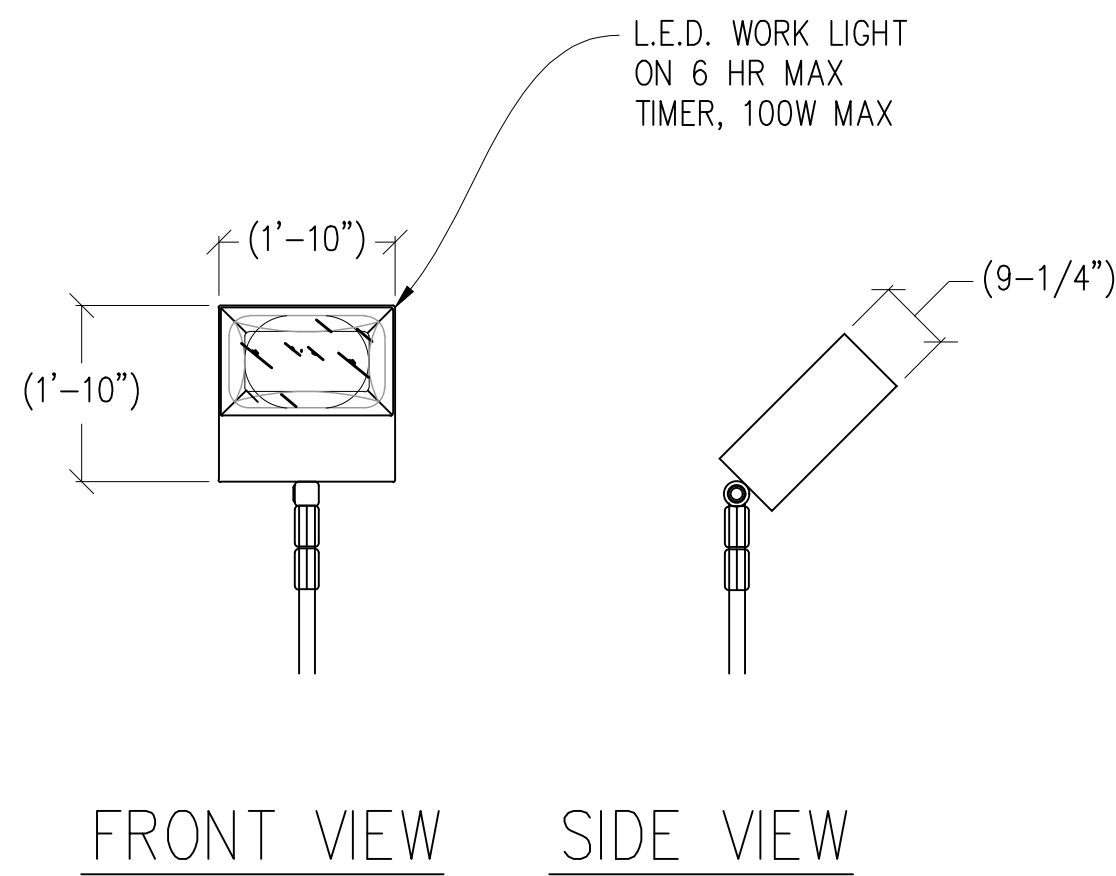
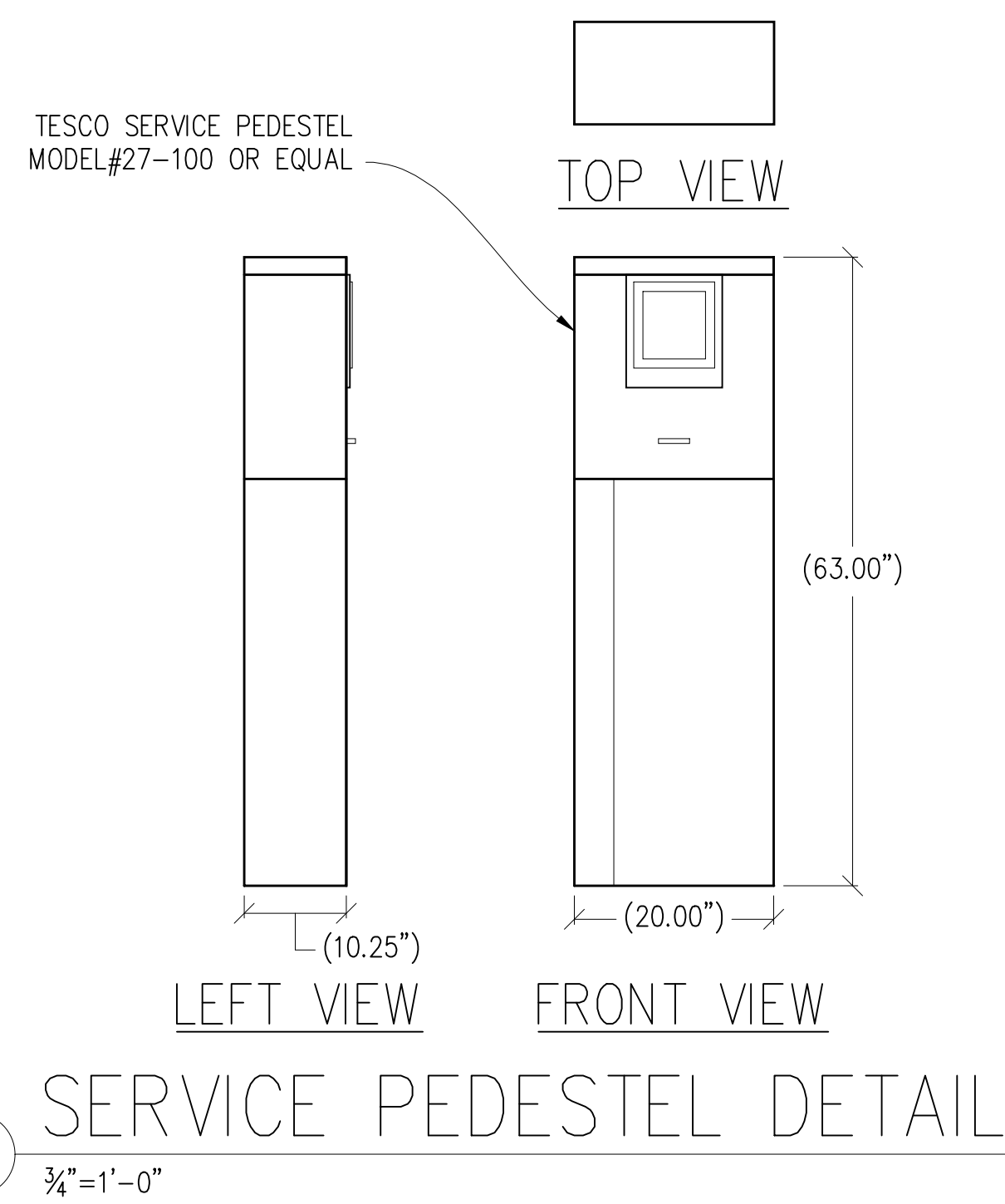
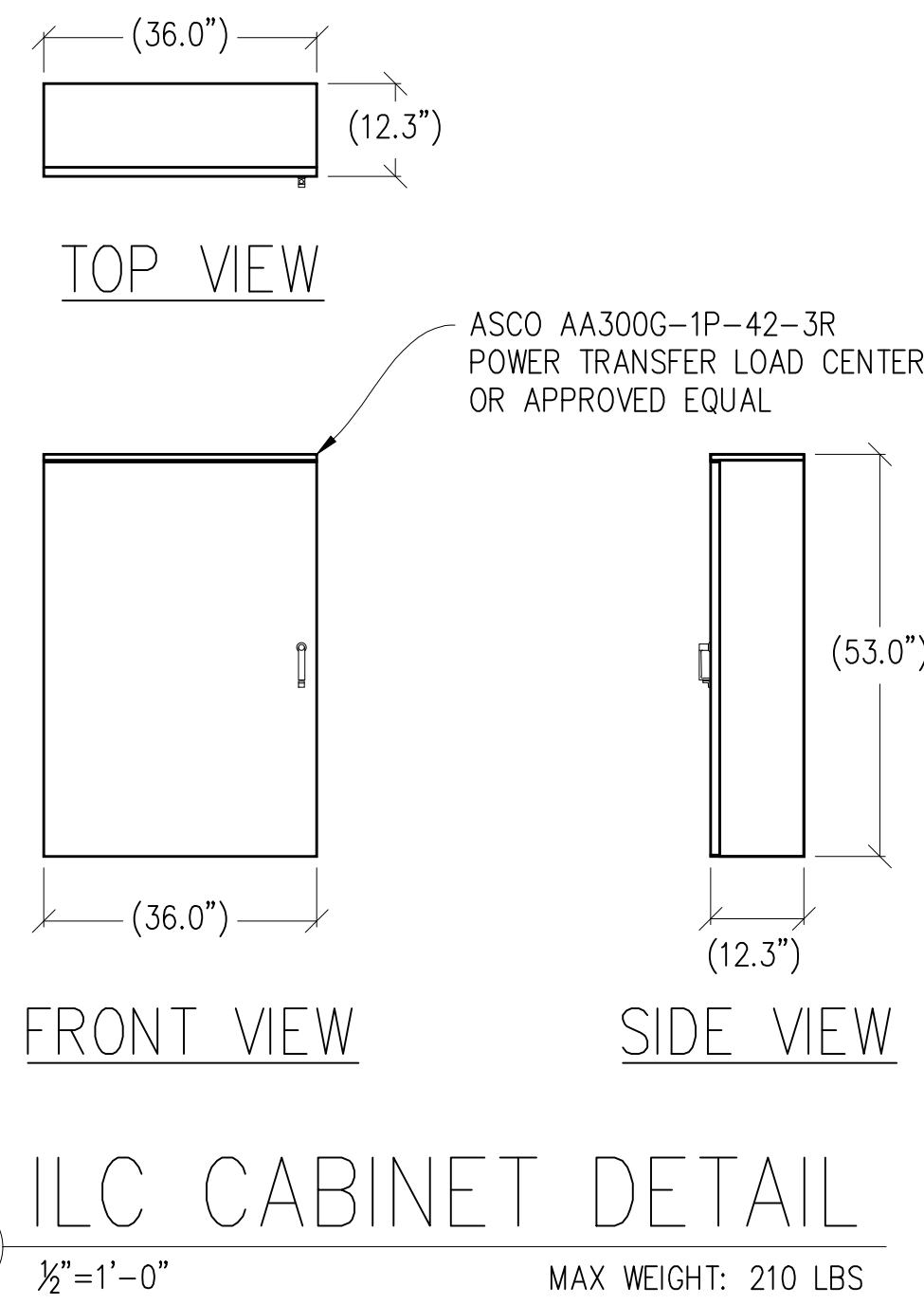
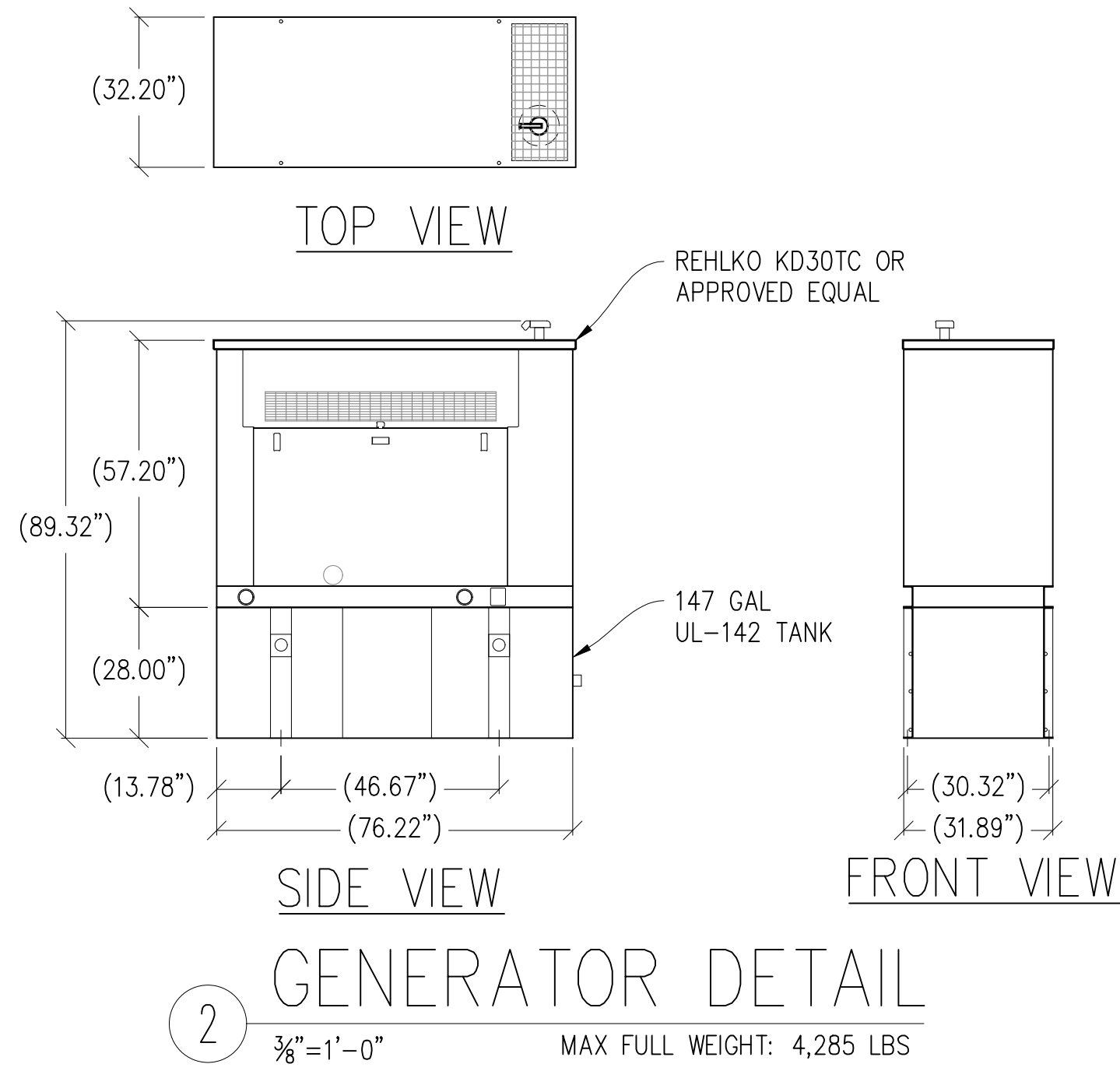
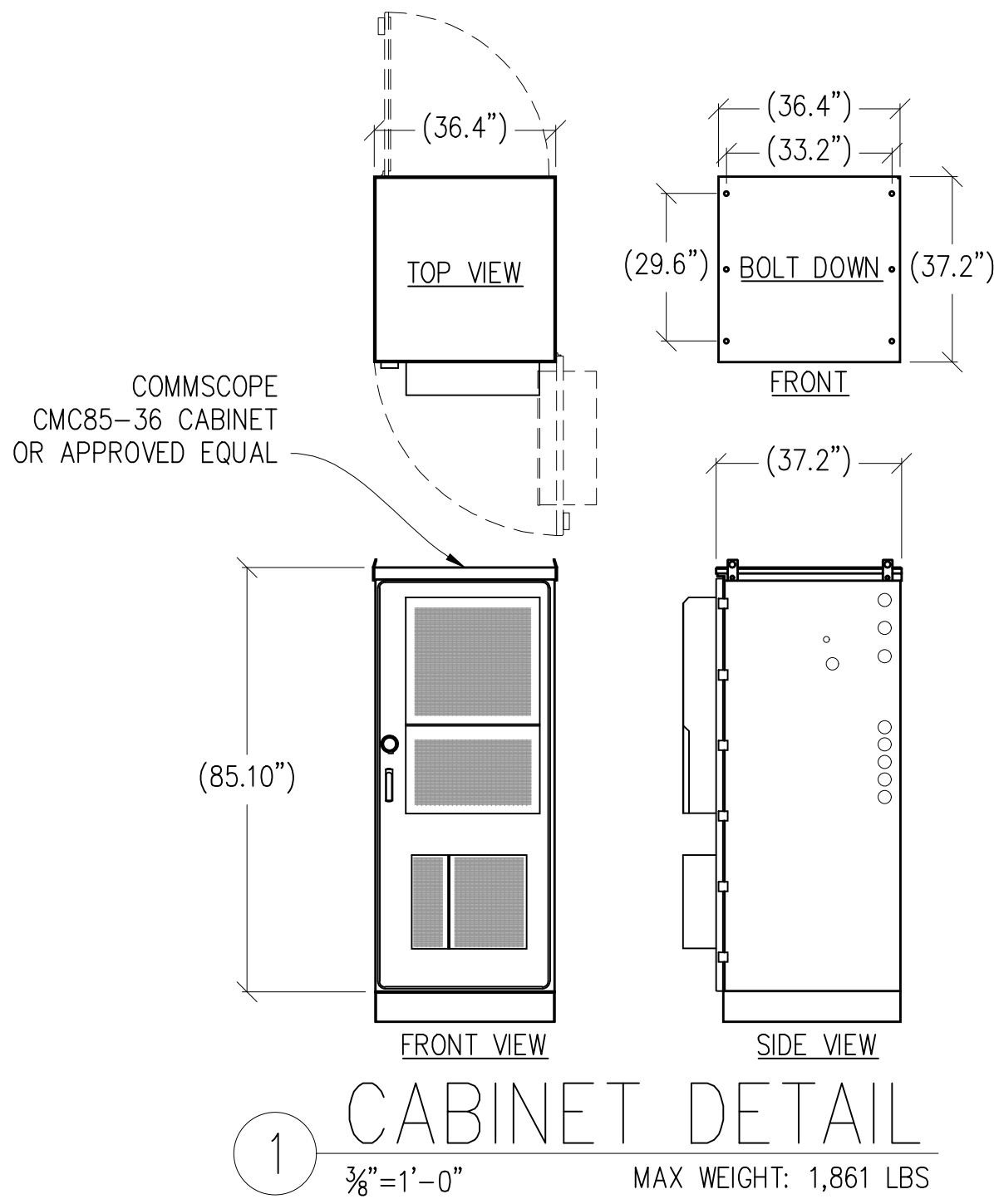
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DETAILS

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JAMES R. SPORE
REGISTERED PROFESSIONAL ENGINEER
S6336
STRUCTURAL
STATE OF CALIFORNIA

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E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

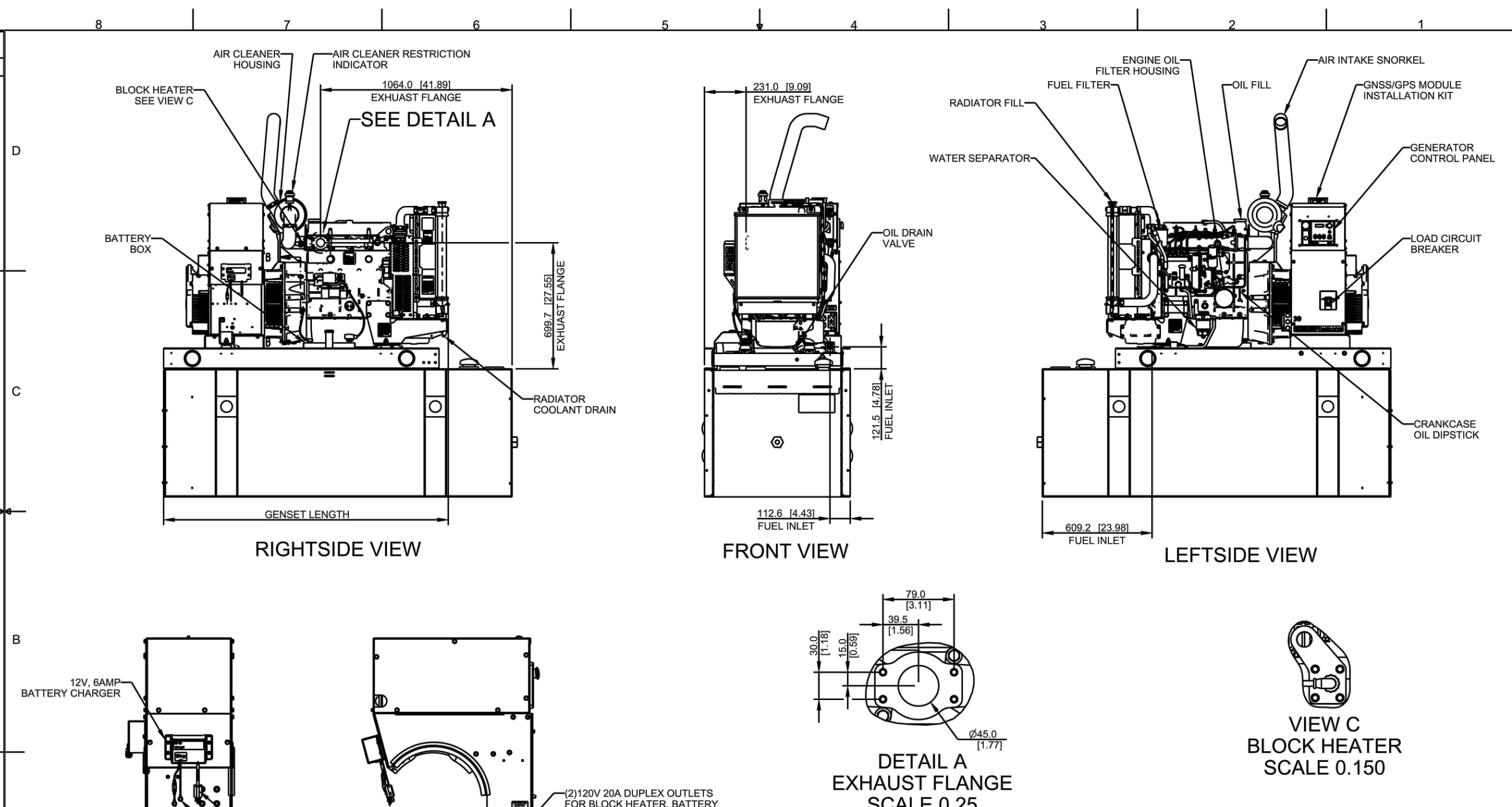
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SHEET TITLE:

EQUIPMENT
DETAILS

SHEET NUMBER:

A-4.2



VERIZON
30KW KD30TC
ENCLOSURE WITH
STANDARD TANK

[illegible]

VERIZON
30KW KD30TC
ENCLOSURE WITH
STANDARD TANK

11/07/2025

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SHEET TITLE:

GENERATOR
SPECIFICATIONS

SHEET NUMBER:
A-5.2

Clay & Bailey Mfg. Co.



367 Male Thread High Flow Emergency Vent for Aboveground Storage Tanks



367 HF

Features:

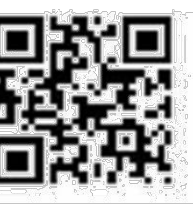
All Aluminum Construction is lightweight for easy handling and installation. Also, no rust issues from scratches or weathering. Buna-N O Ring provides a vapor resistant seal. Spring Actuated Vent assures accurate opening pressure. Pressure relief set at <0.5 PSI. Clay & Bailey vents can be used in a variety of Aboveground Storage Tank Equipment installations where reliable fuel handling petroleum equipment is required.

Part #	Size	Weight /lbs.	Size	W/Screen	W/O Screen
0367-03-30HF	3"	3	3"	66,400 SCFH	71,750 SCFH
0367-03-40HF	4"	4	4"	114,800 SCFH	118,750 SCFH
0367-03-50HF	5"	5	5"	184,500 SCFH	200,250 SCFH
0367-03-60HF	6"	6	6"	237,000 SCFH	251,700 SCFH
0367-03-80HF	8"	7	8"	500,552 SCFH	556,539 SCFH



Clay & Bailey emergency vents comply with various codes – Petroleum Equipment Institute PEI RP200; Underwriters Laboratories Inc. UL-142, UL-2085, UL-2244, UL-2583; Underwriters Laboratories of Canada ULC-S601; National Fire Protection Agency NFPA 30, NFPA 30A; American Petroleum Institute API 2000.

Patent# 8171955

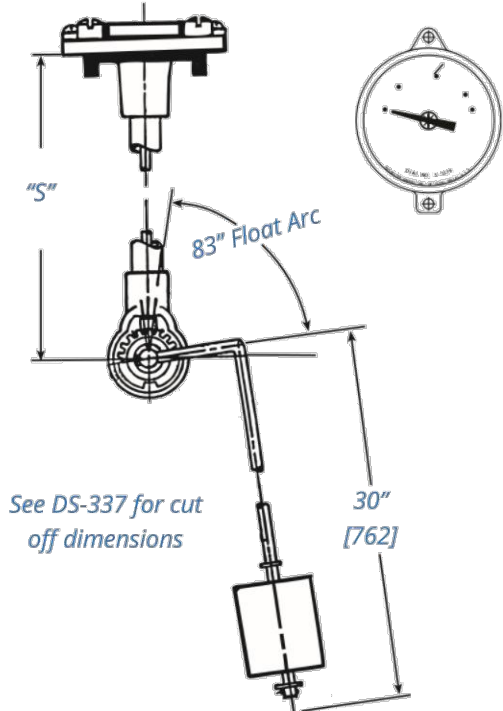


10/2018

6401 E. 40th St., Kansas City, Mo. 64129 • 1-800-821-6583 •



Direct reading gauge with 5002501379 dial



TwinSite® Dial, 0-90 ohms & 240-30 ohms



Parts #	Description	Ohms
588050254	Wire Leads	0-90
5AVHS03213P	Wire Leads	240-30

Materials of Construction*

- Head**
Die cast aluminum.
- Centershaft, Support Tube & Float Rod**
Tempered aluminum.
- Gears, Cross Stud & Bearings**
Stainless Steel.
- Drive Magnet**
Alnico.
- Gear Housing**
Acetal plastic or aluminum.
- Float**
Nitrile rubber
- Gasket**
Buna-N, 0015-00004 or 0015-00079
- Direct Reading Dial**
Aluminum with polycarbonate crystal, hermetically sealed.
- Side Reading Dial**
Aluminum with polycarbonate crystal, hermetically sealed.
- TwinSite® Sender**
Polyamide.
- Mounting Bolts**
Zinc-plated steel 1/4" x 28 x 9/16" long.

When ordering, specify:

- Gauge model number.
- Tank diameter and riser height.
- Mounting location.
- Ohm range on TwinSite® versions.
- Preferred switch on switch gauges, if other than standard.
- Any listed options or preferences.

Note: Materials and specifications are subjected to change without notice. Pressure ratings subject to change due to temperature and other environmental considerations.

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Clay & Bailey Mfg. Co.



401 Mushroom Vent



Features:

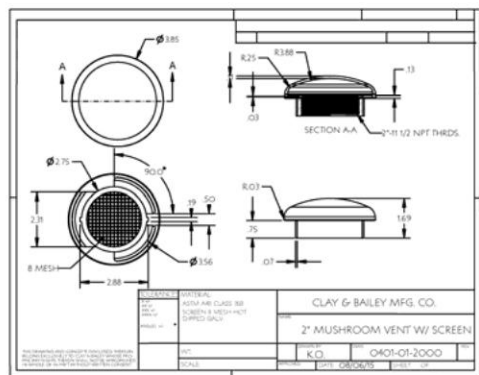
Mushroom style free flow vent is made of cast iron with a 8 mesh galvanized screen. Domed vent top prevents tank contamination from entering vent lines. NPT thread is standard. Also available in galvanized. (Shown)

Cast iron Black

Part No.	Size	lbs	SCFH@ 2.5psi	A	B
0401-01-0750	3/4"	0.3	4,894	3/4"	1"
0401-01-1000	1"	0.5	8,711	1"	1 1/8"
0401-01-1250	1 1/4"	0.6	13,616	1 1/4"	1 1/2"
0401-01-1500	1 1/2"	0.7	19,532	1 1/2"	1 9/16"
0401-01-2000	2"	1.1	38,846	2"	1 11/16"
0401-01-4000	4"	2.5	54,873	4"	3"

Galvanized

Part No.	Size	lbs	2.5psi	A	B
0401-10-0750	3/4"	0.3	4,894	3/4"	1"
0401-10-1000	1"	0.5	8,711	1"	1 1/8"
0401-10-1250	1 1/4"	0.6	13,616	1 1/4"	1 1/2"
0401-10-1500	1 1/2"	0.7	19,532	1 1/2"	1 9/16"
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0401-10-4000	4"	2.5	54,873	4"	3"



6401 E. 40th St., Kansas City, Mo. 64129 • 1-800-821-6583 • F: 816-924-3903 • www.claybailey.com



Adjustable Liquid-Level Gauges

Applications

The 6500 Series Senior gauges are designed for use in low pressure tanks 0-25 psig (0-1.78Bar) containing diesel fuel, gasoline, fuel oil and lubricating oils.

Used in many applications such as construction equipment, stationery generators, boats, farm equipment and home heating gauges may be easily converted remote output by simply installing the R3D replacement dial and plug-in Hall Effect sender module.

General Information & Features

The 6500 Series Adjustable Senior gauges are available in gear-action models for top mounting.

The standard float is nitrile rubber. The gauge is mounted to a mating Senior flange 2 1/2" bolt circle [63.5mm] using four 1/4" x 9/16" long bolts. The gasket is Buna-N

Models #	Mounting	Dial, sender or Switch Data	Support Length "S"
6580-0151	Top	500250 379 Senior direct-reading fractional dial	3"
6540-00090		5880502547P (0-90 Ohms)	3"
6540-00252		5AVHS03213P (240-30 Ohms)	3-5/8"

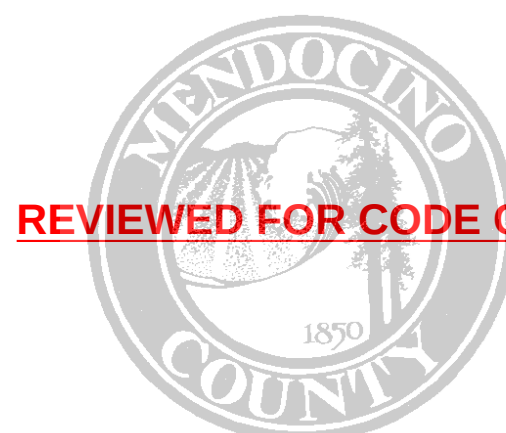
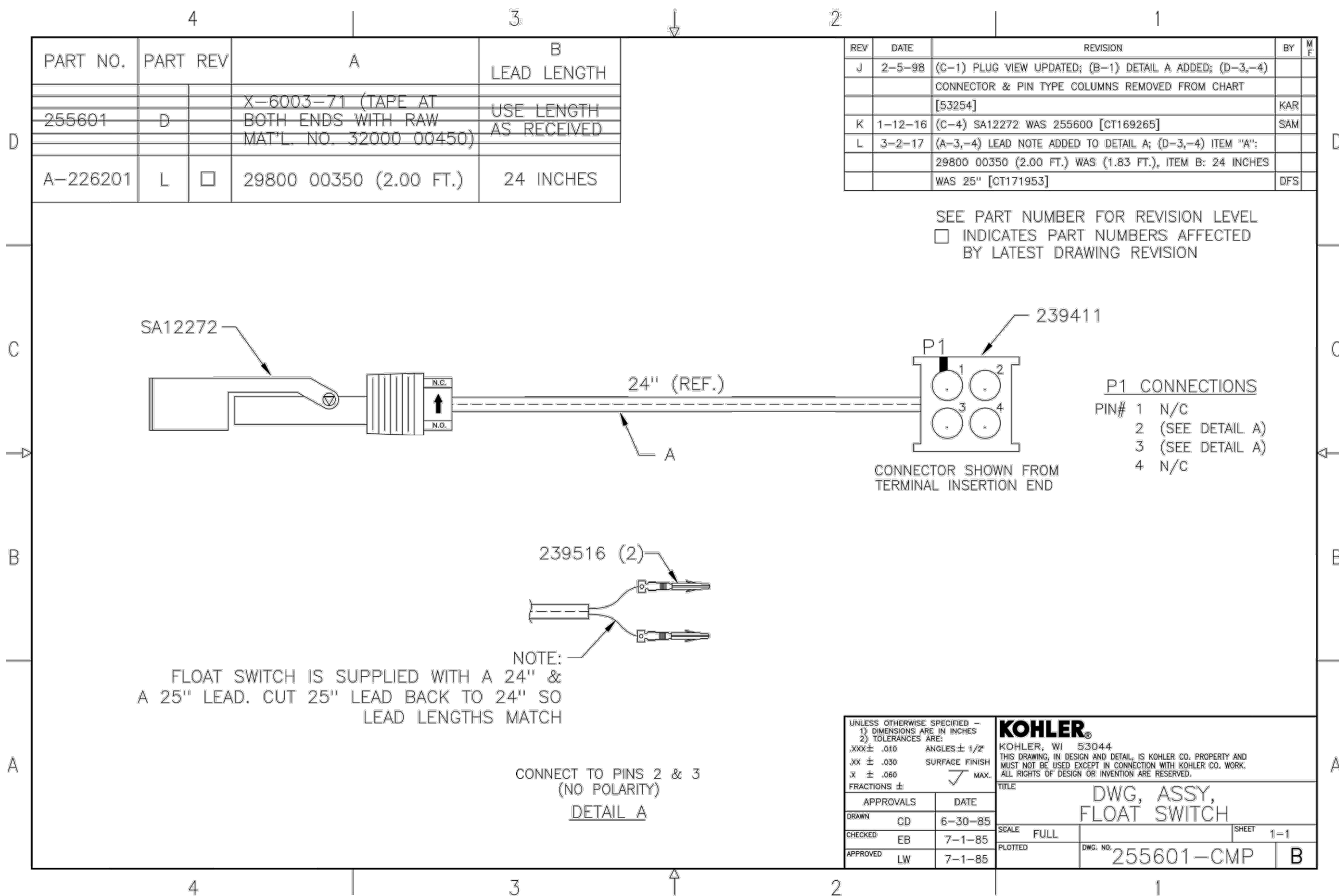


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MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:



MDG LOCATION ID: 5000968102

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DRAWN BY: FS

CHECKED BY: N. GEORGE

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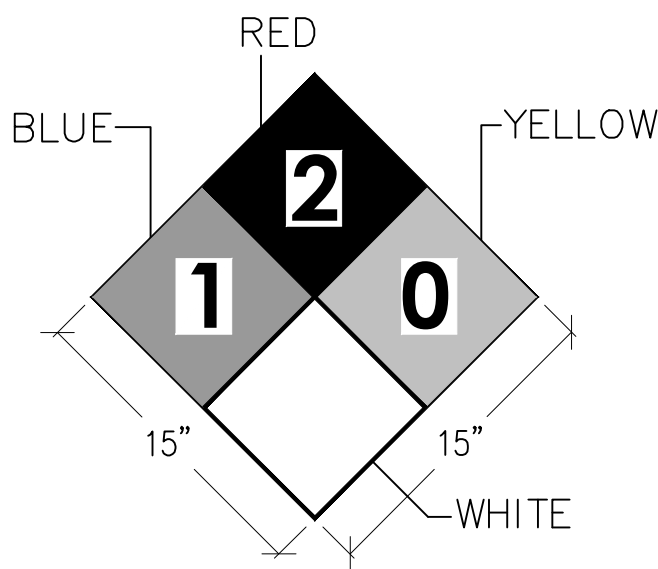
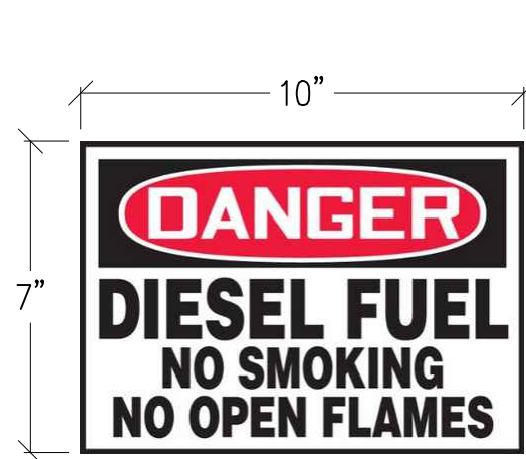
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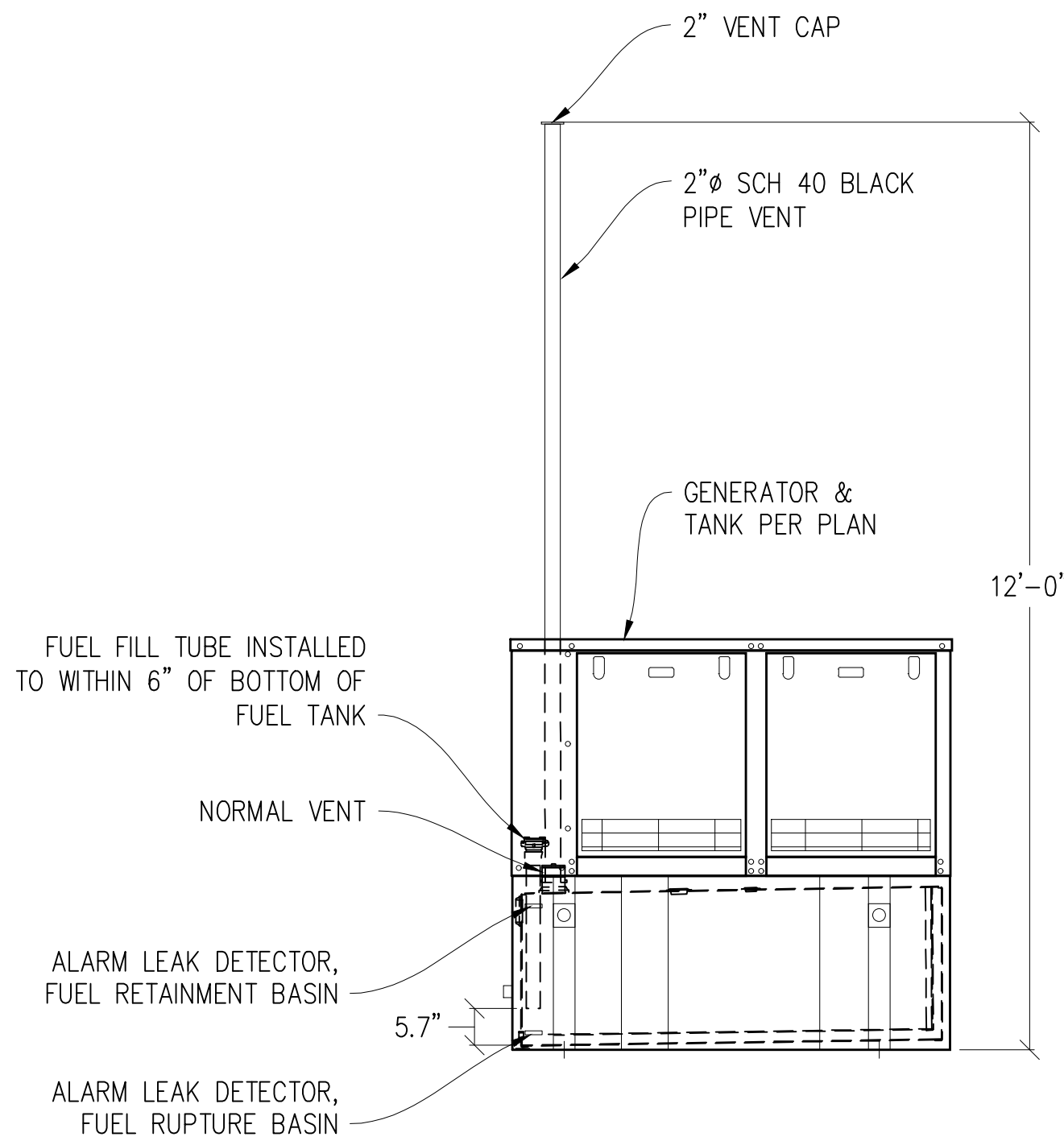


- NOTE:
1. LETTERS SHALL BE A MINIMUM OF 3" IN HEIGHT
 2. SIGN TO BE PLACED ON ALL SIDES OF GENERATOR
 3. 10"x14" ALUMINUM NO SMOKING SIGN

1 GENERATOR SAFTEY SIGNAGE

NOT TO SCALE

NOTE:
FILL PIPE SHALL TERMINATE WITHIN 6" OF TANK BOTTOM



2 GENERATOR VENT & FILL DETAIL

1/2"=1'-0"



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3843 Taylor Road, Suite A, Loomis, CA 95650
Contact: Kevin Sorenson Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941
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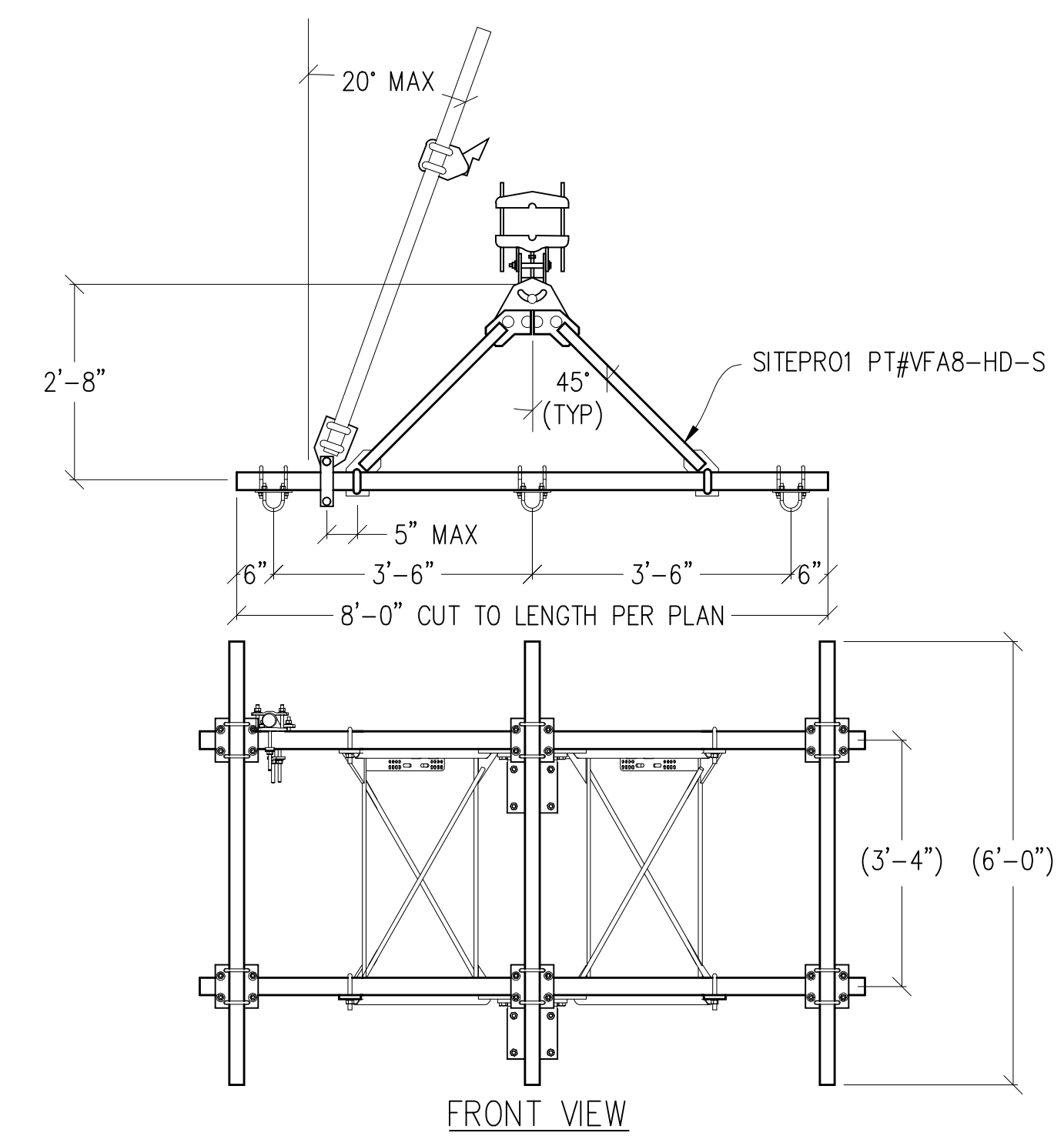
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GENERATOR
SPECIFICATIONS

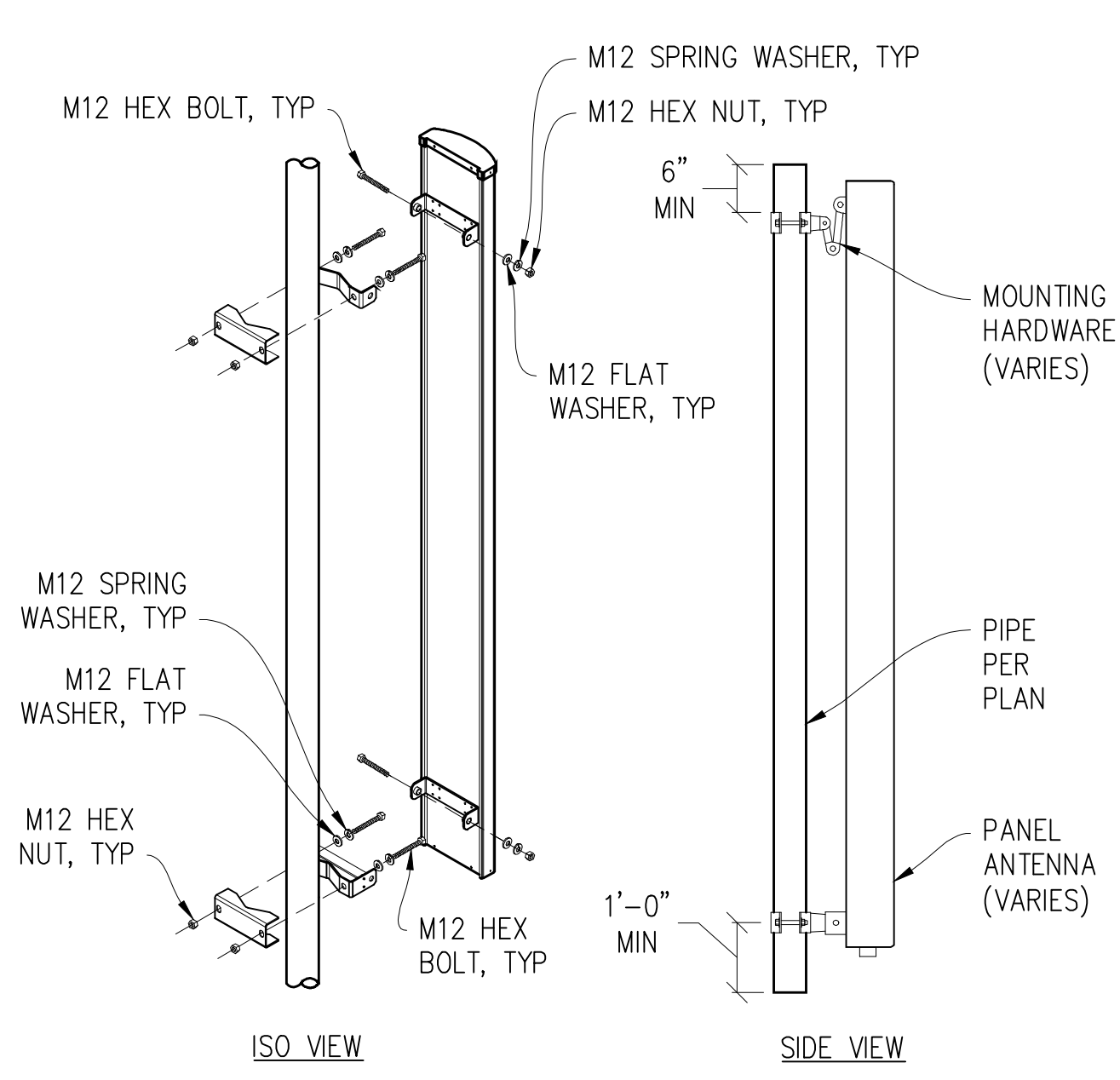
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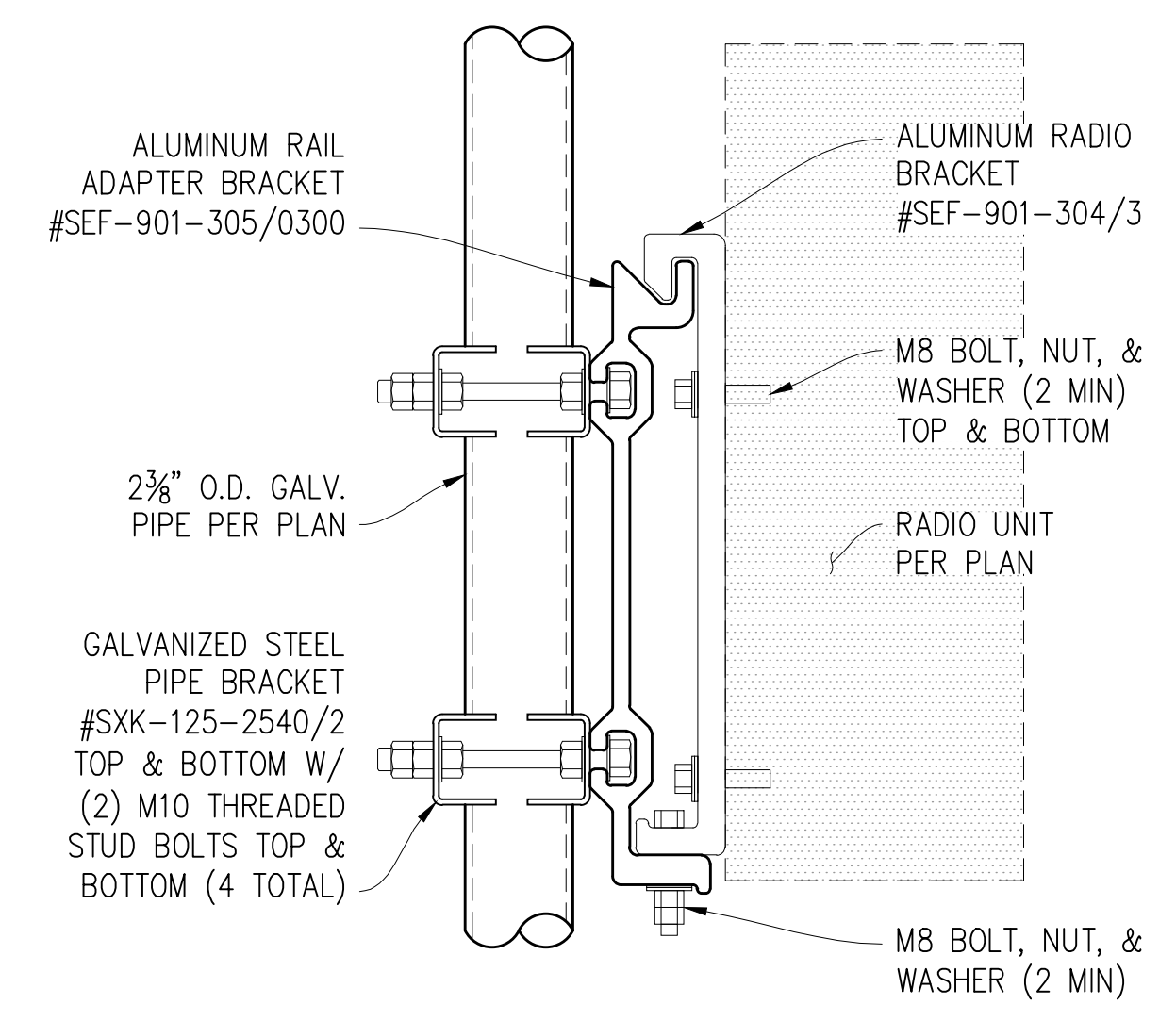
BP_2025-0623
36900 MOUNTAIN VIEW RD



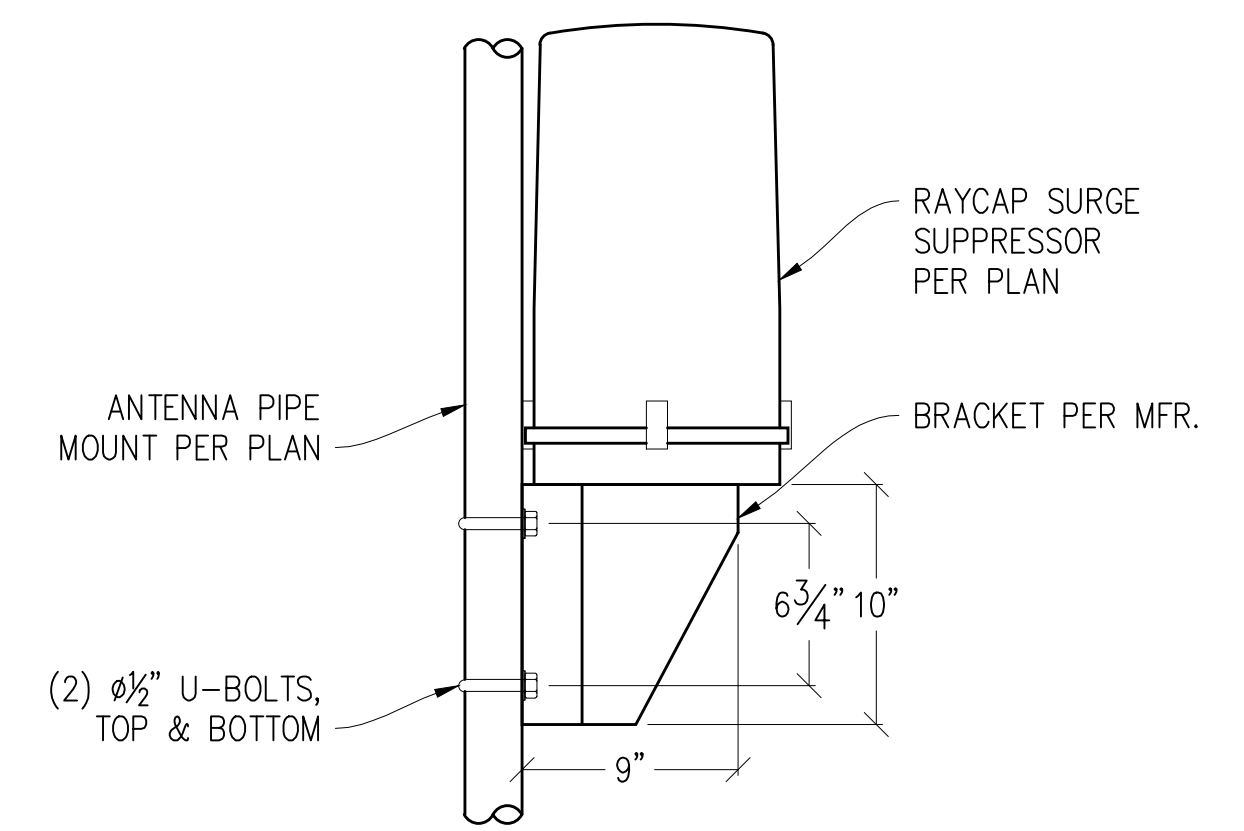
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1/2"=1'-0"



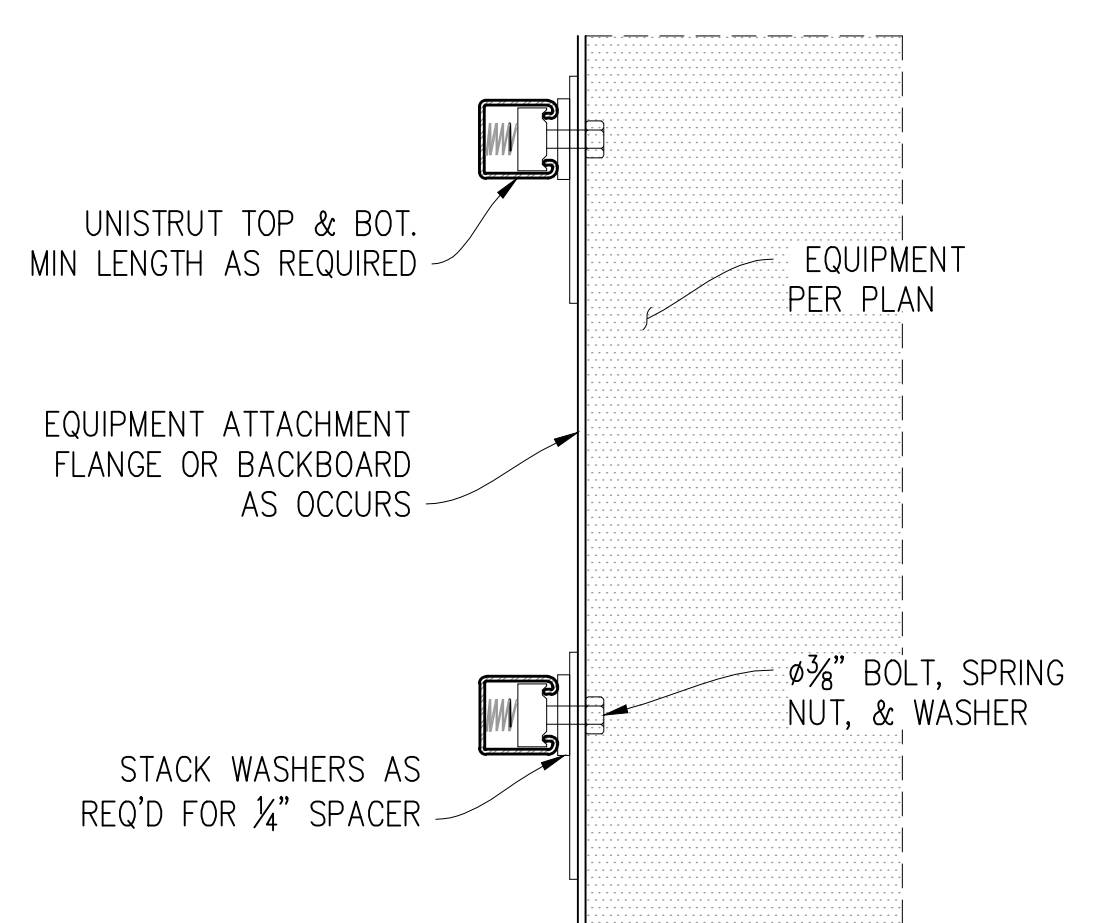
2 ANTENNA MOUNT
1"=1'-0"



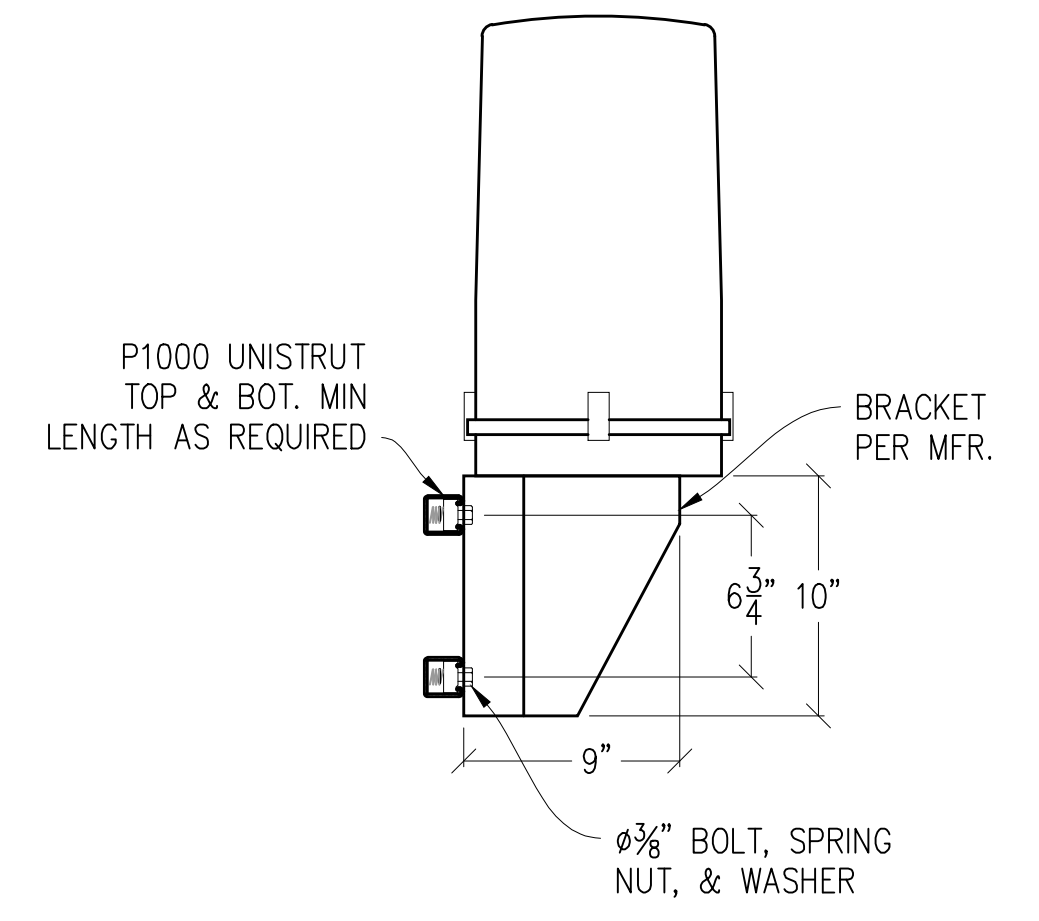
3 RADIO UNIT MOUNTING
3"=1'-0"



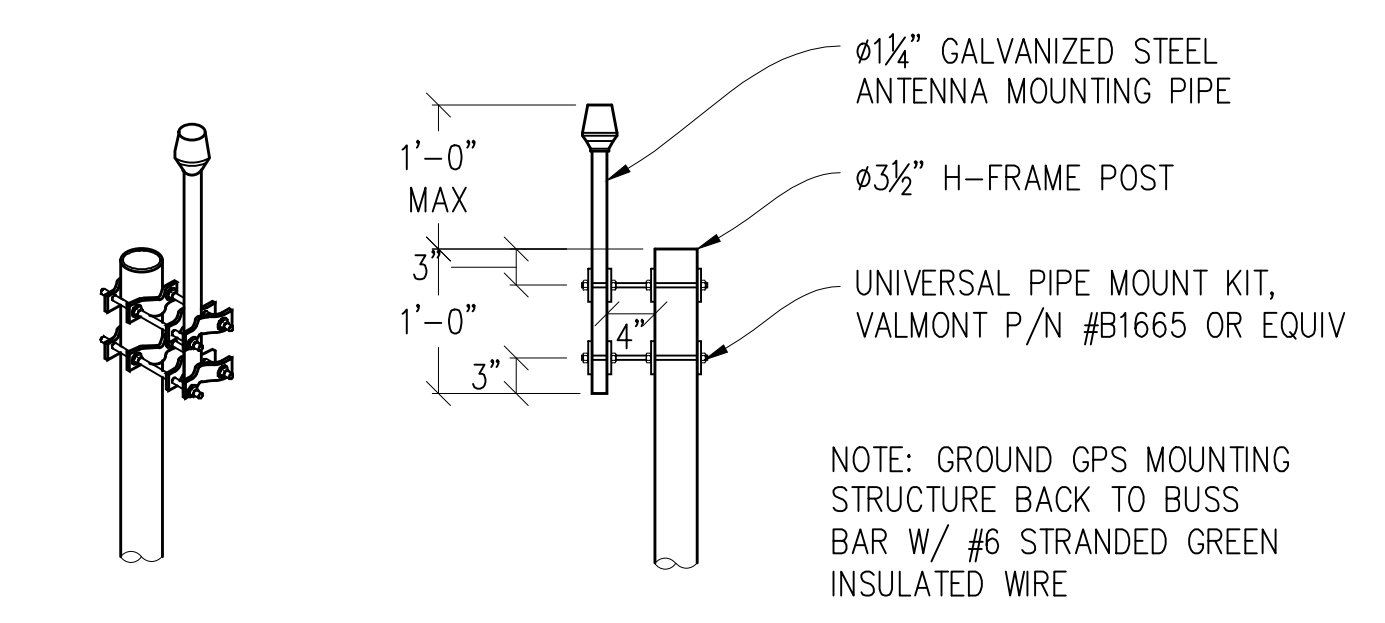
4 SURGE PIPE MOUNT
1 1/2"=1'-0"



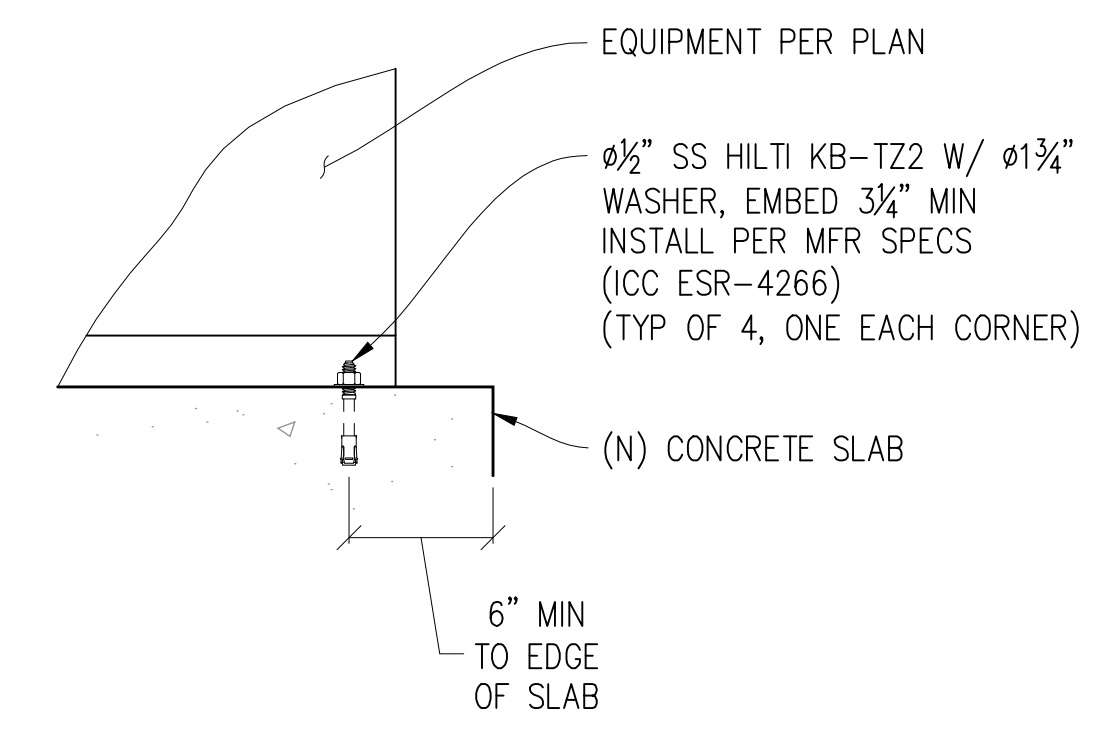
5 EQUIPMENT MOUNTING
3"=1'-0"



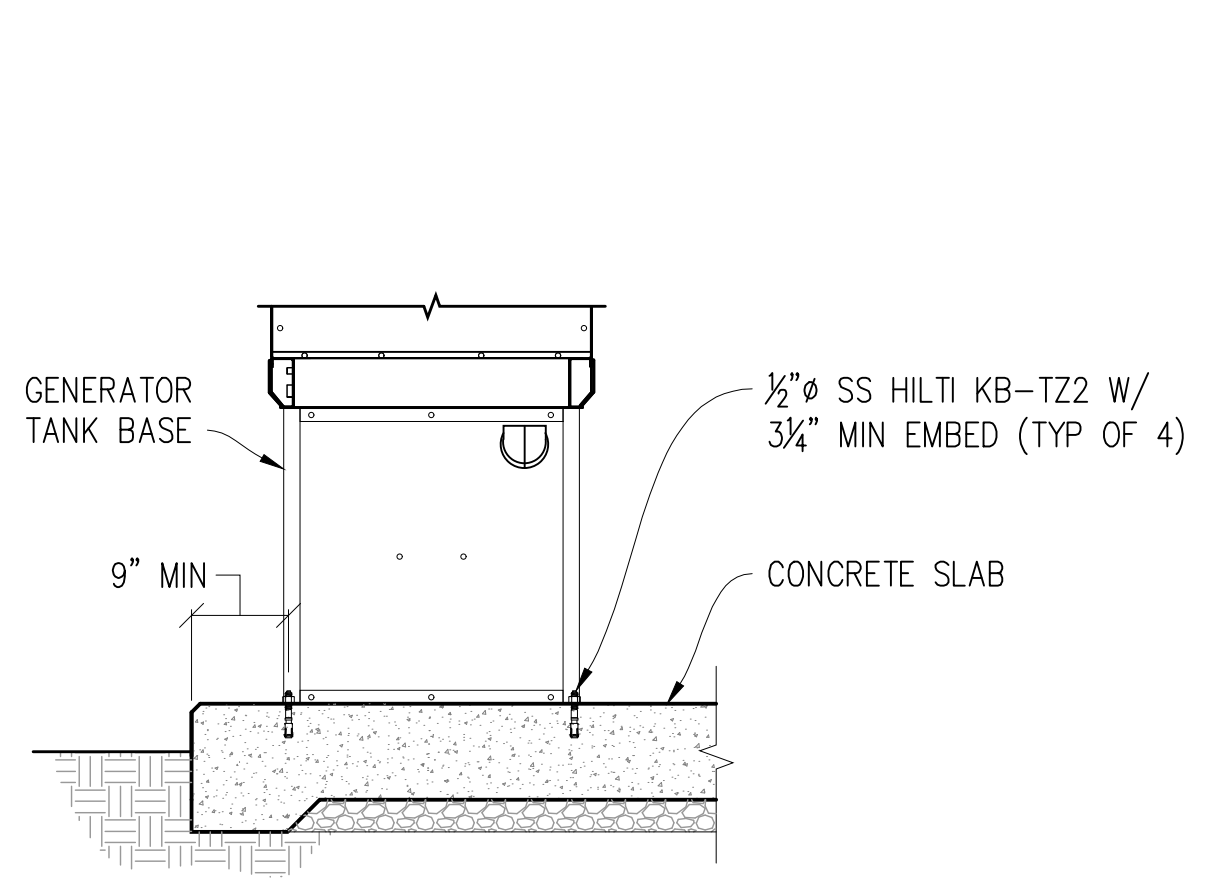
6 SURGE MOUNT
1 1/2"=1'-0"



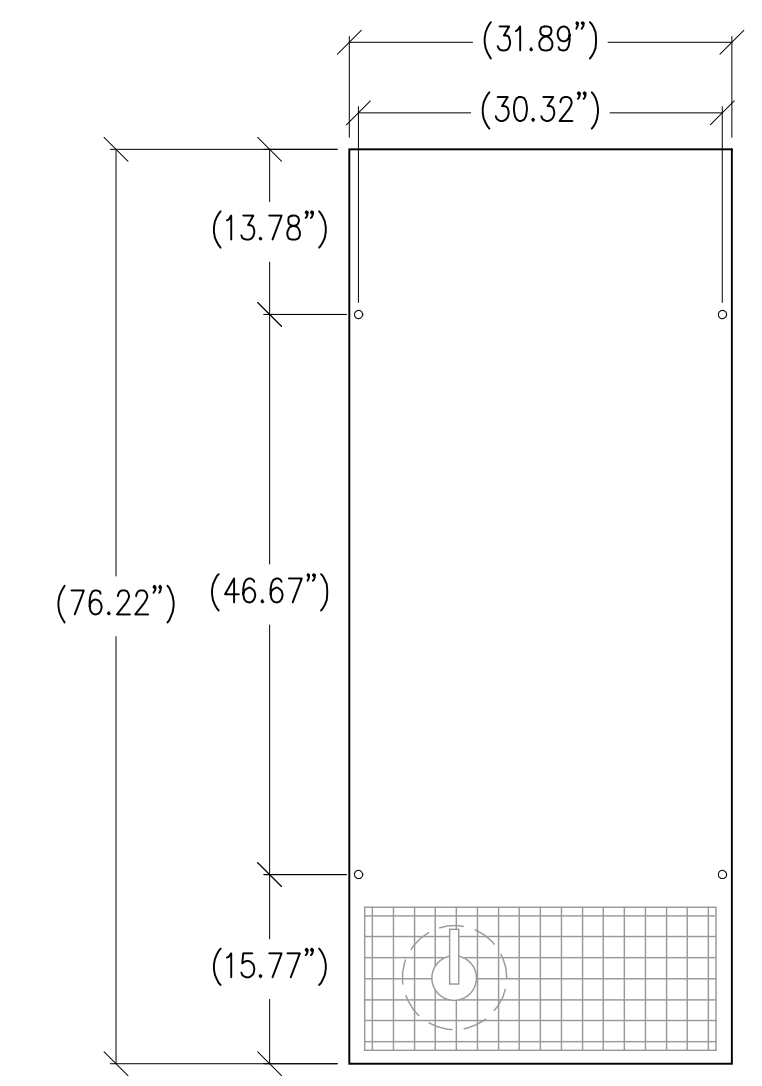
7 GPS MOUNT DETAIL
3/4"=1'-0"



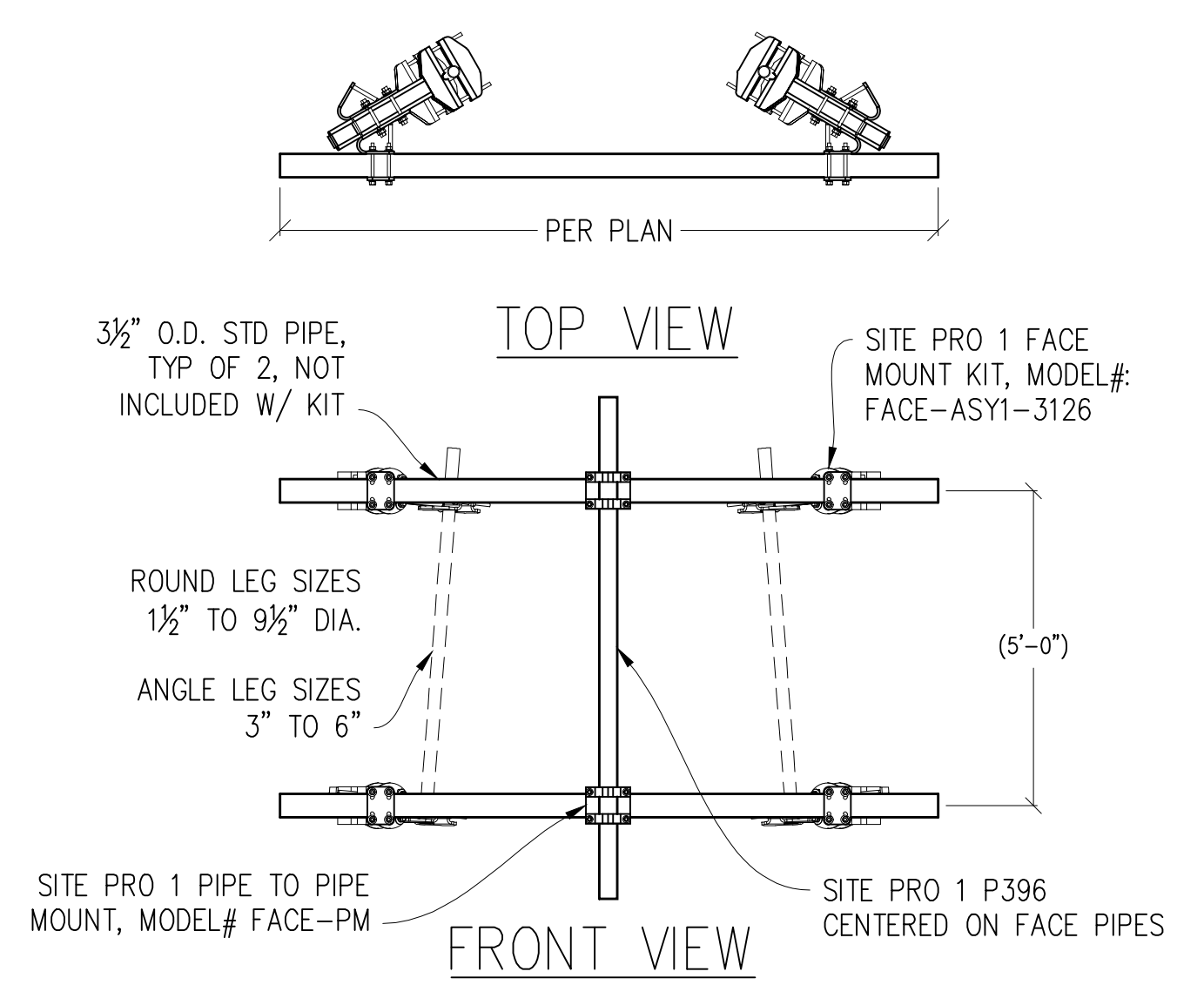
8 CABINET TO CONC
1 1/2"=1'-0"



9 GENERATOR ANCHORAGE
1/2"=1'-0"



10 ANCHOR LOCATIONS
3/4"=1'-0"



11 ANTENNA MOUNT
3/8"=1'-0"
MAX WEIGHT: 530 LBS

BP_2025-0623
36900 MOUNTAIN VIEW RD

Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

MDG LOCATION ID: 5000968102

PROJECT ID: 17393308

DRAWN BY: FS

CHECKED BY: N. GEORGE

APPROVED BY: J. SPORE

ISSUE STATUS				
REV	DATE	DESCRIPTION	CAD	
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SHEET TITLE:

STRUCTURAL
DETAILS

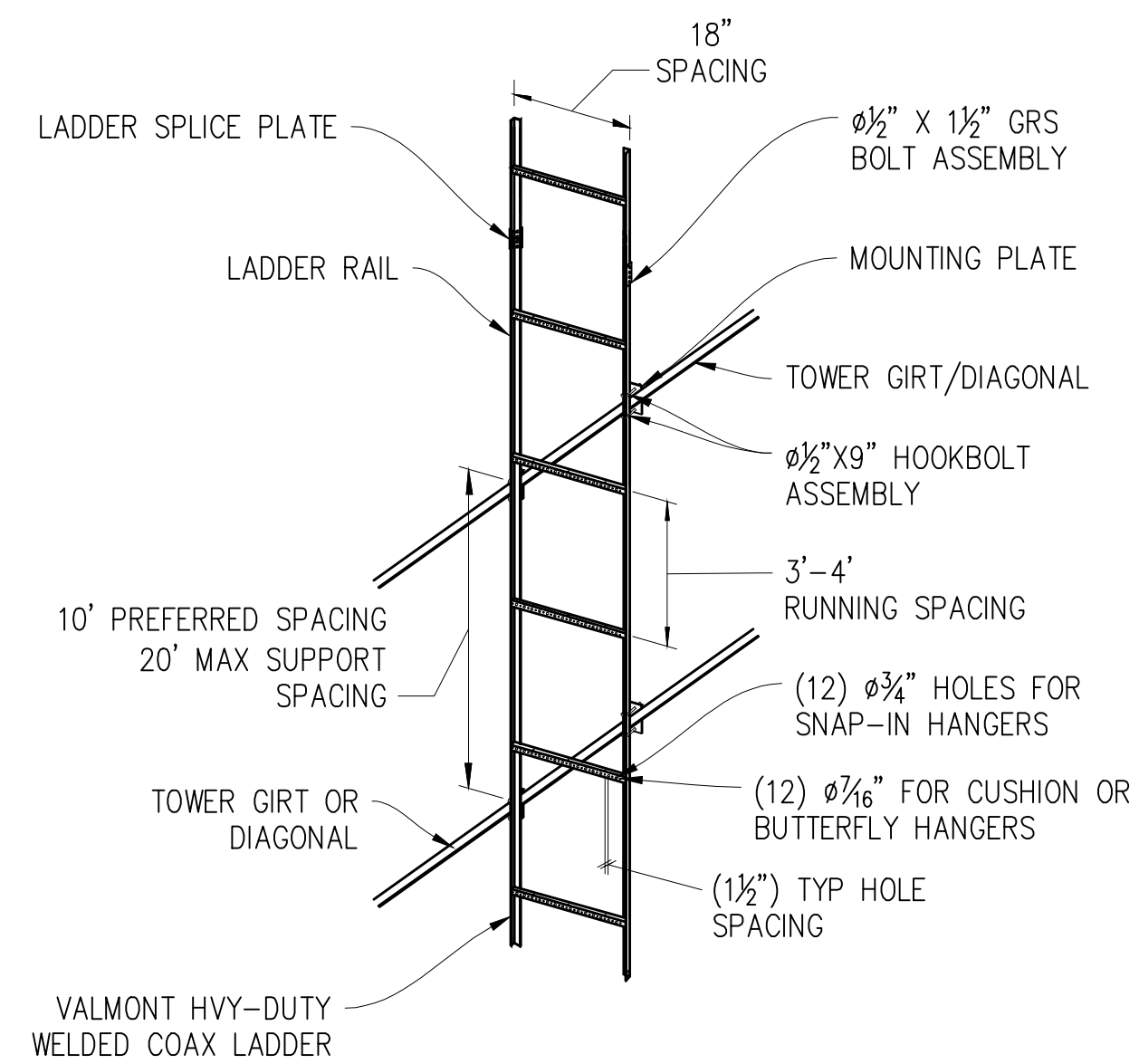
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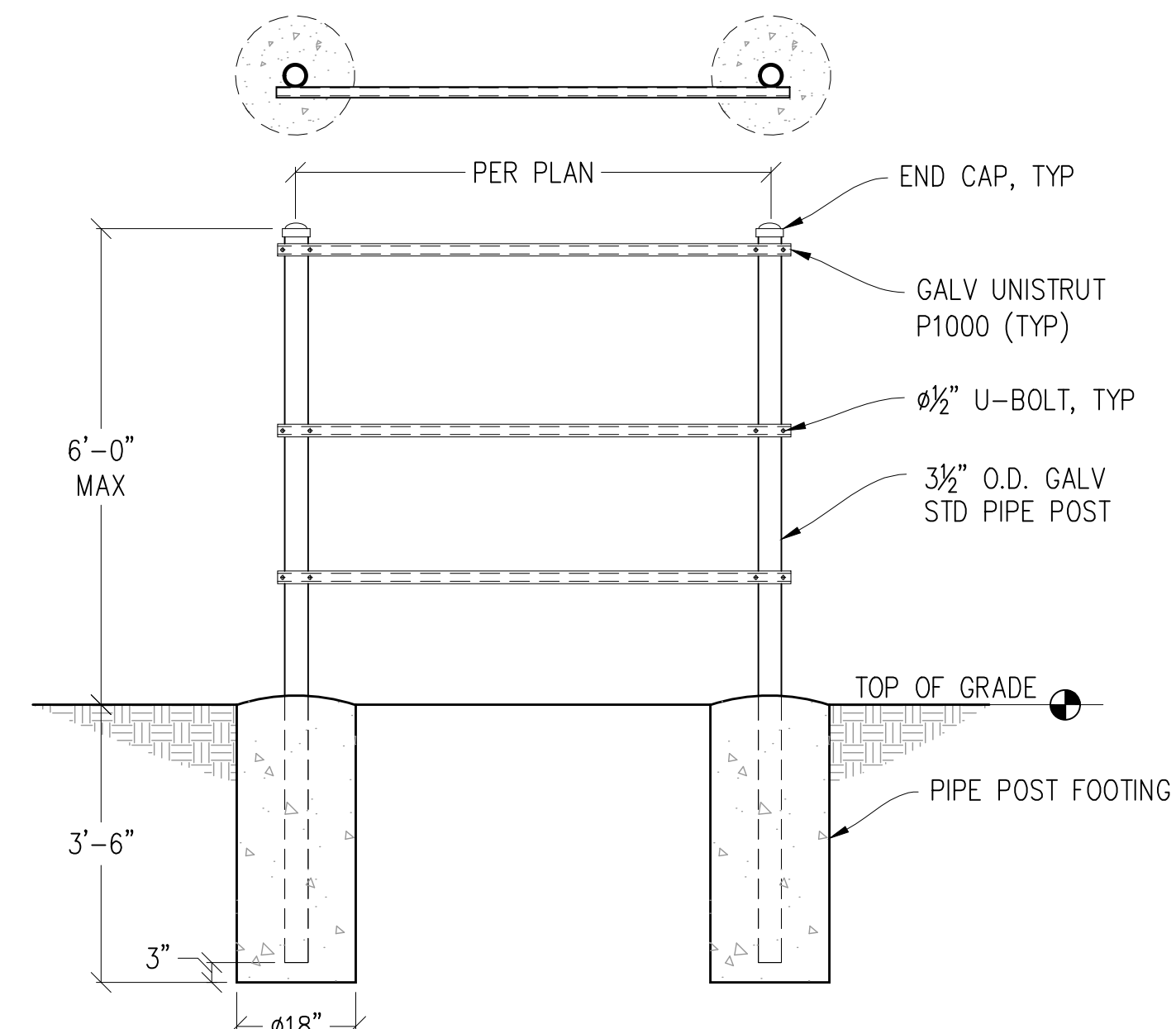
REVIEWED FOR CODE COMPLIANCE
11/07/2025



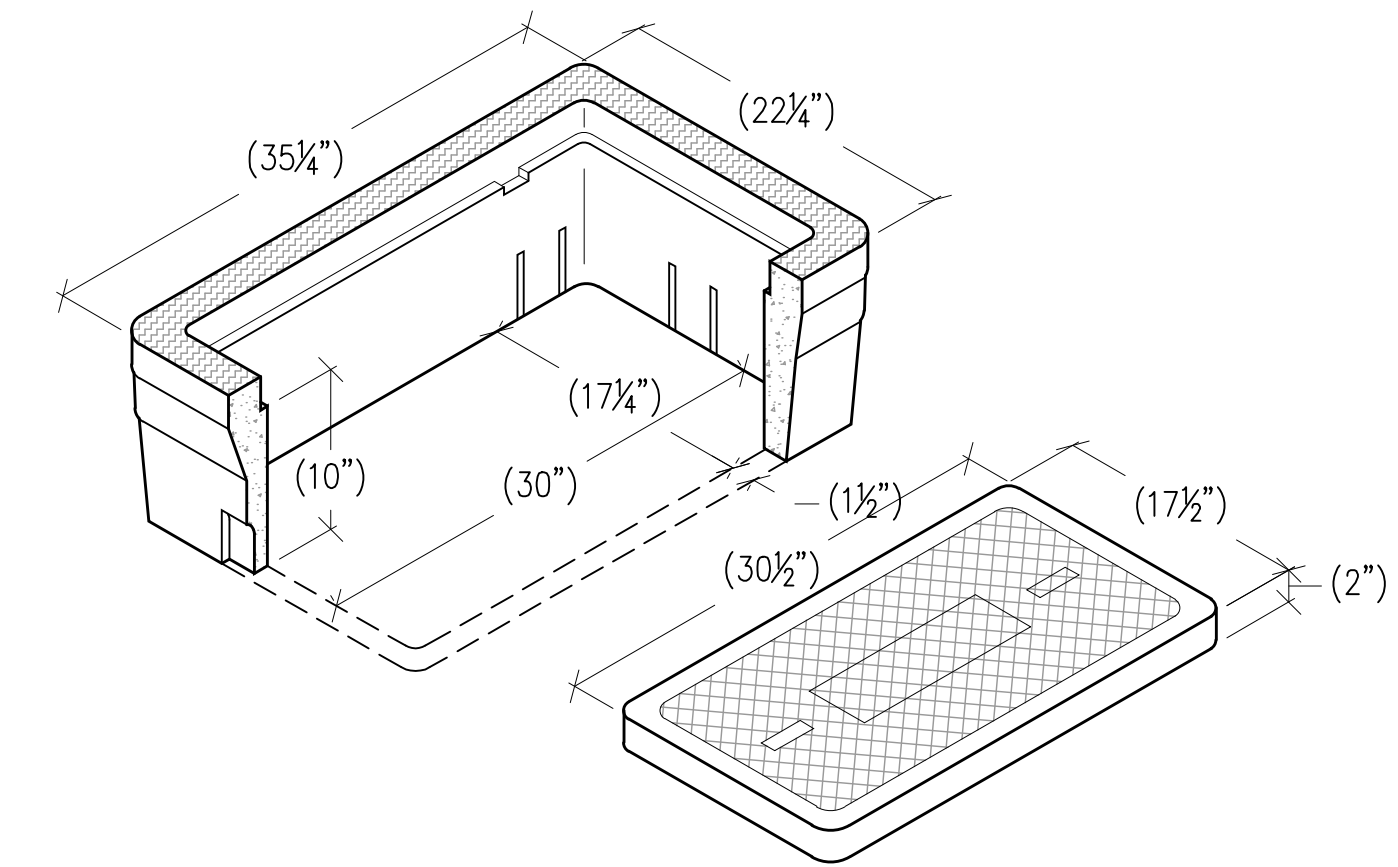
1 PEDESTAL CONC SLAB DETAIL
1/2"=1'-0"



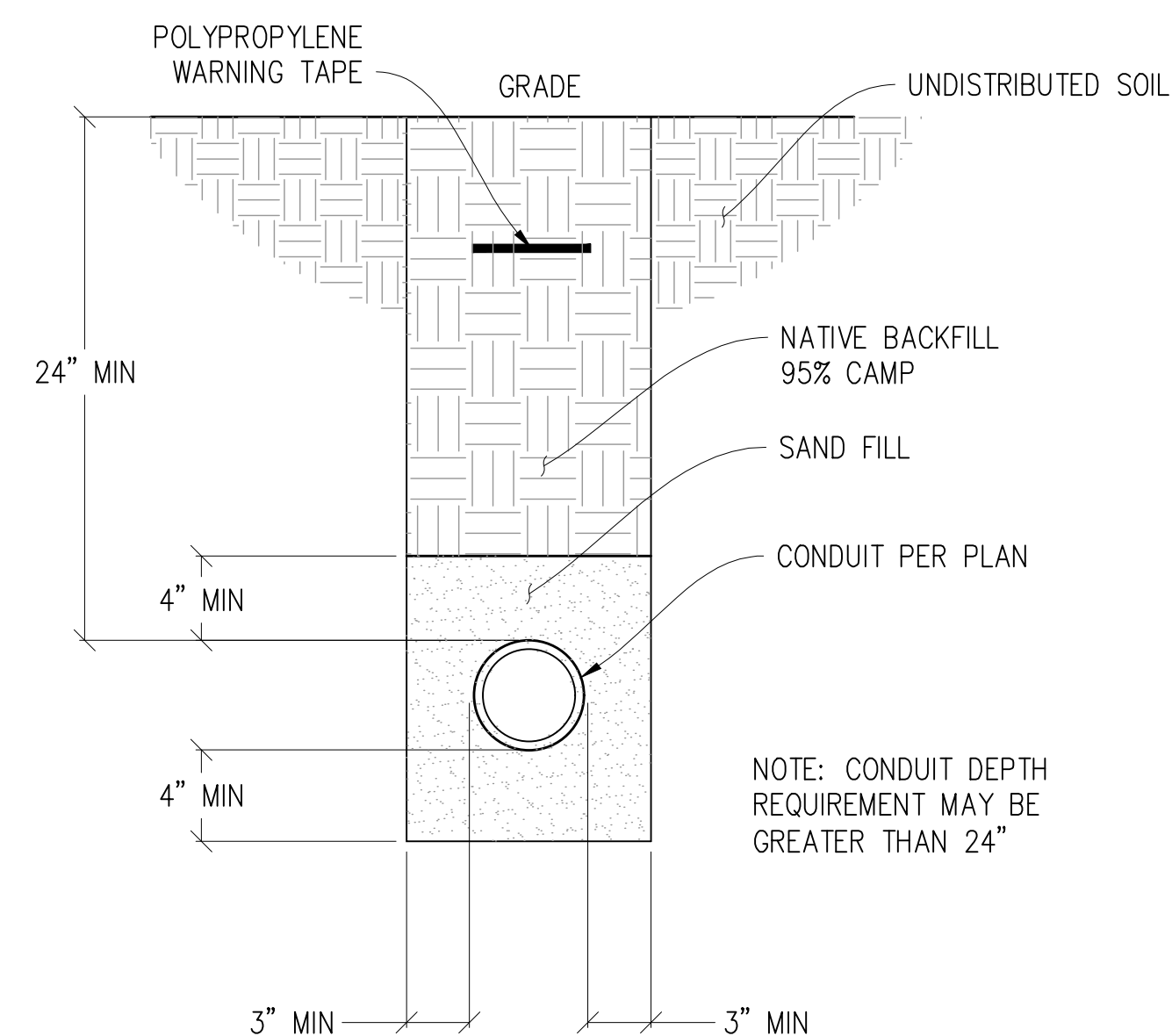
2 CABLE LADDER TO TOWER



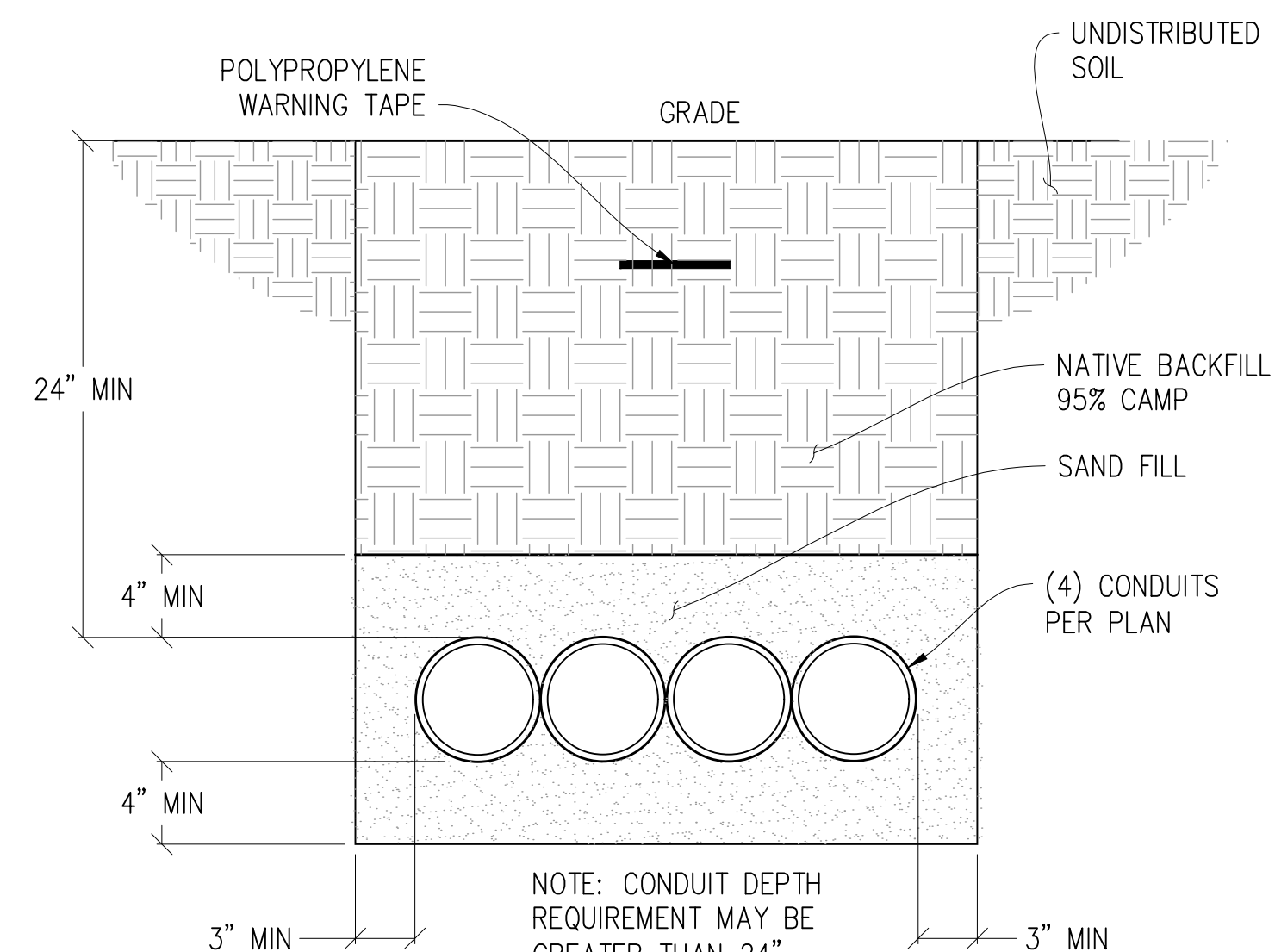
3 H-FRAME DETAIL
1/2"=1'-0"



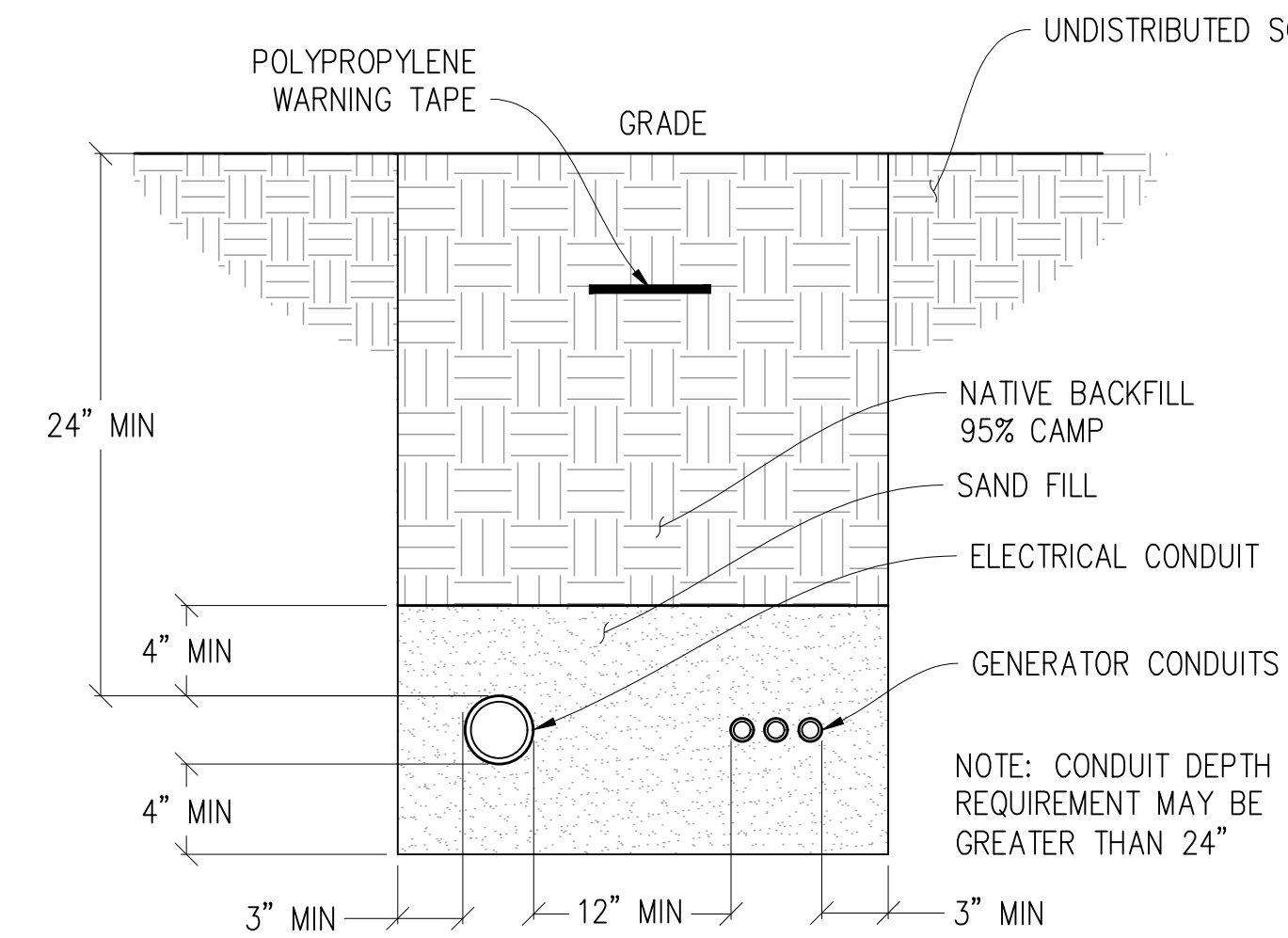
4 P36 SPLICE BOX
N.T.S.



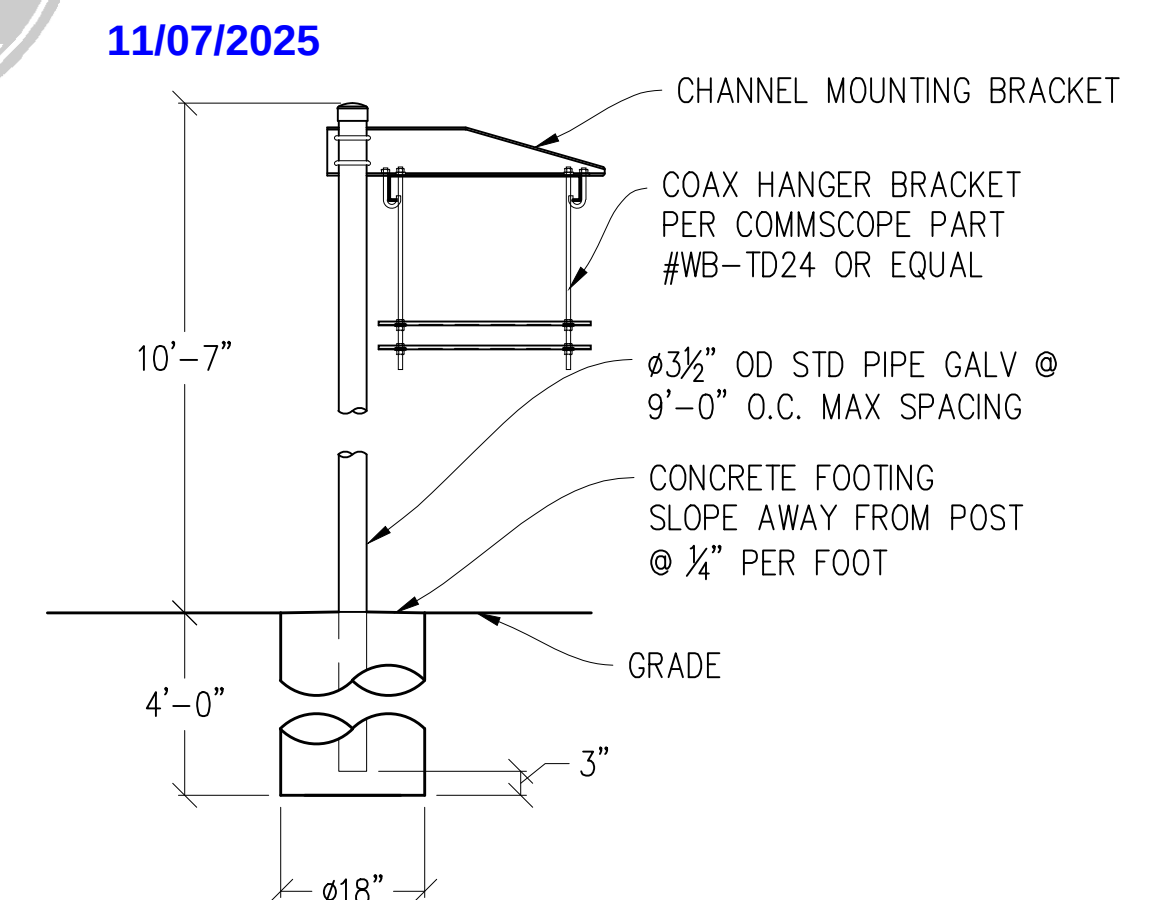
5 CONDUIT TRENCH DETAIL
1½"=1'-0"



6 CONDUIT TRENCH DETAIL
1½"=1'-0"



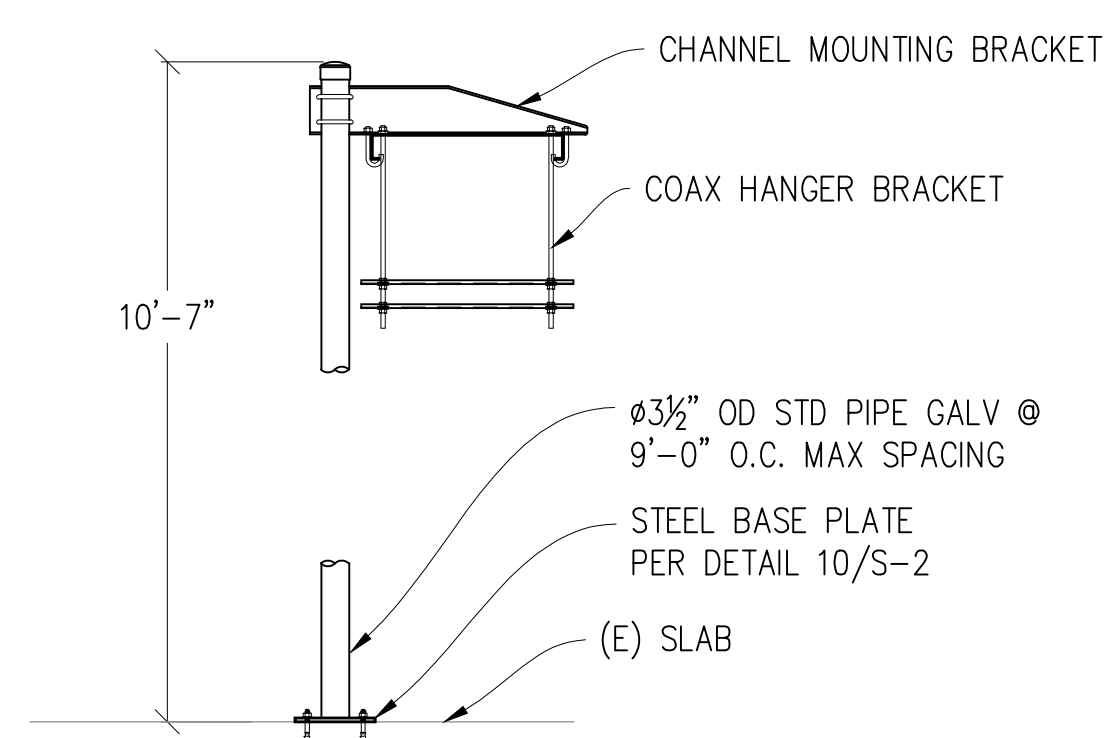
7 CONDUIT TRENCH DETAIL
1½"=1'-0"



FRONT VIEW

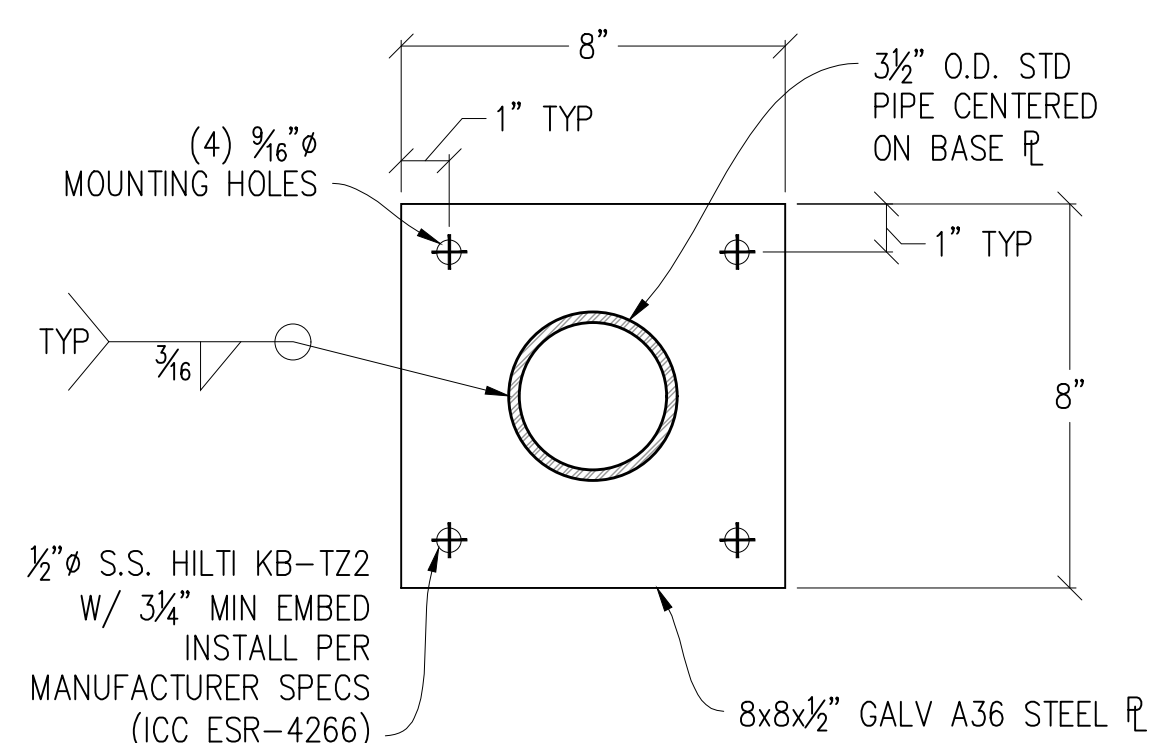


8 ICE BRIDGE DETAIL
1/2"=1'-0"

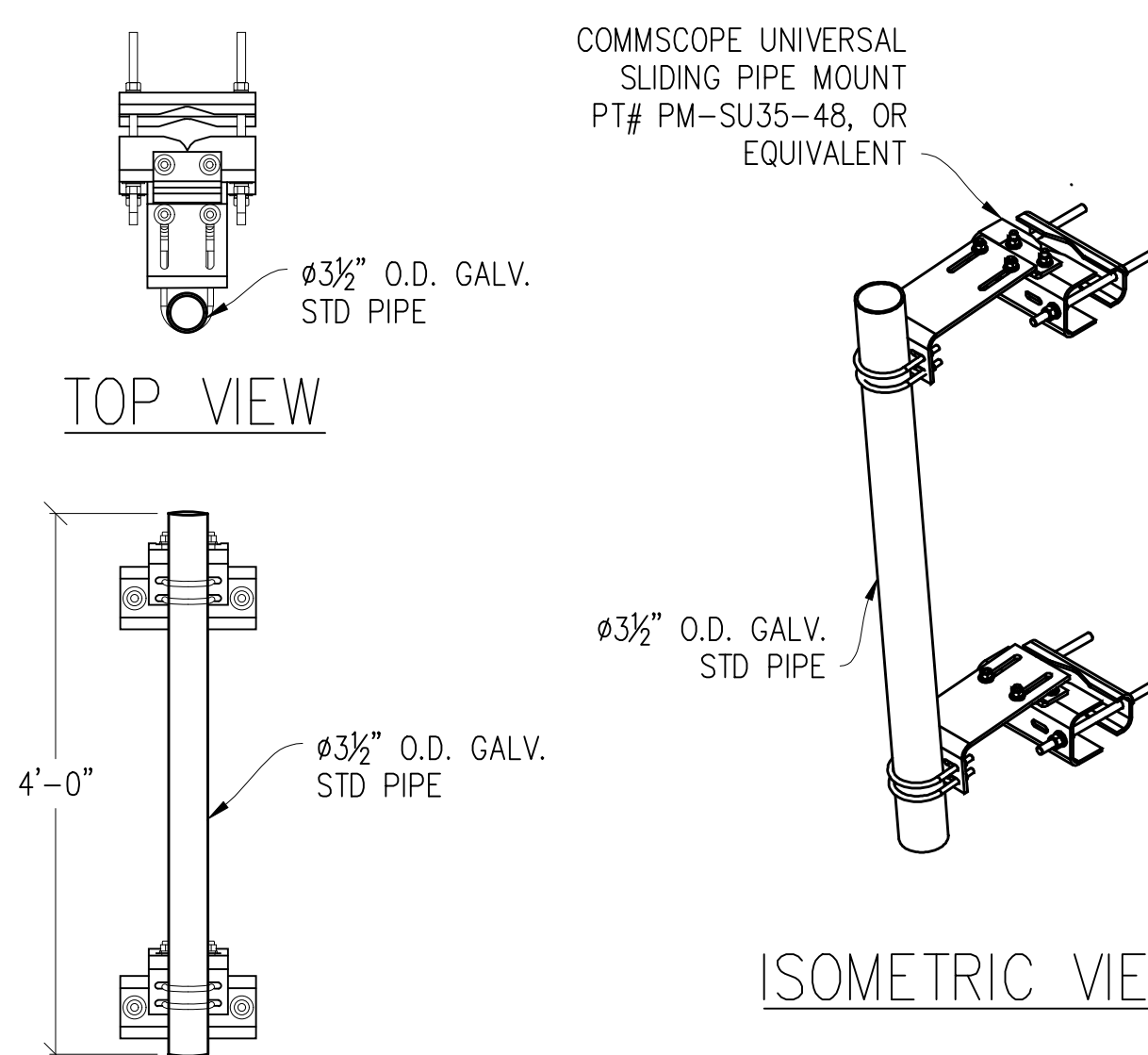


FRONT VIEW

9 ICE BRIDGE DETAIL
1/2"=1'-0"

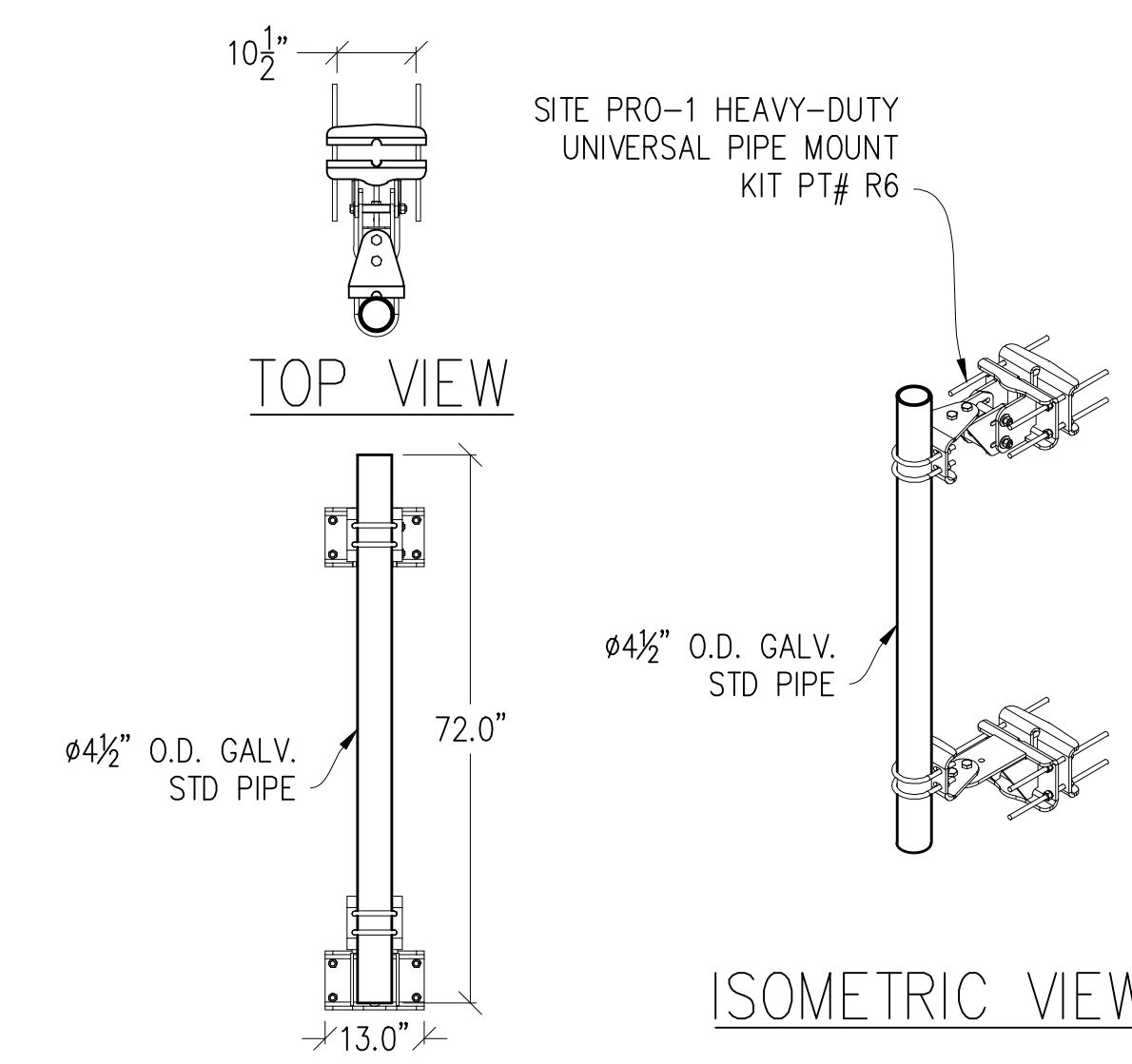


10 BASE PLATE DETAIL
3"=1'-0"



FRONT VIEW

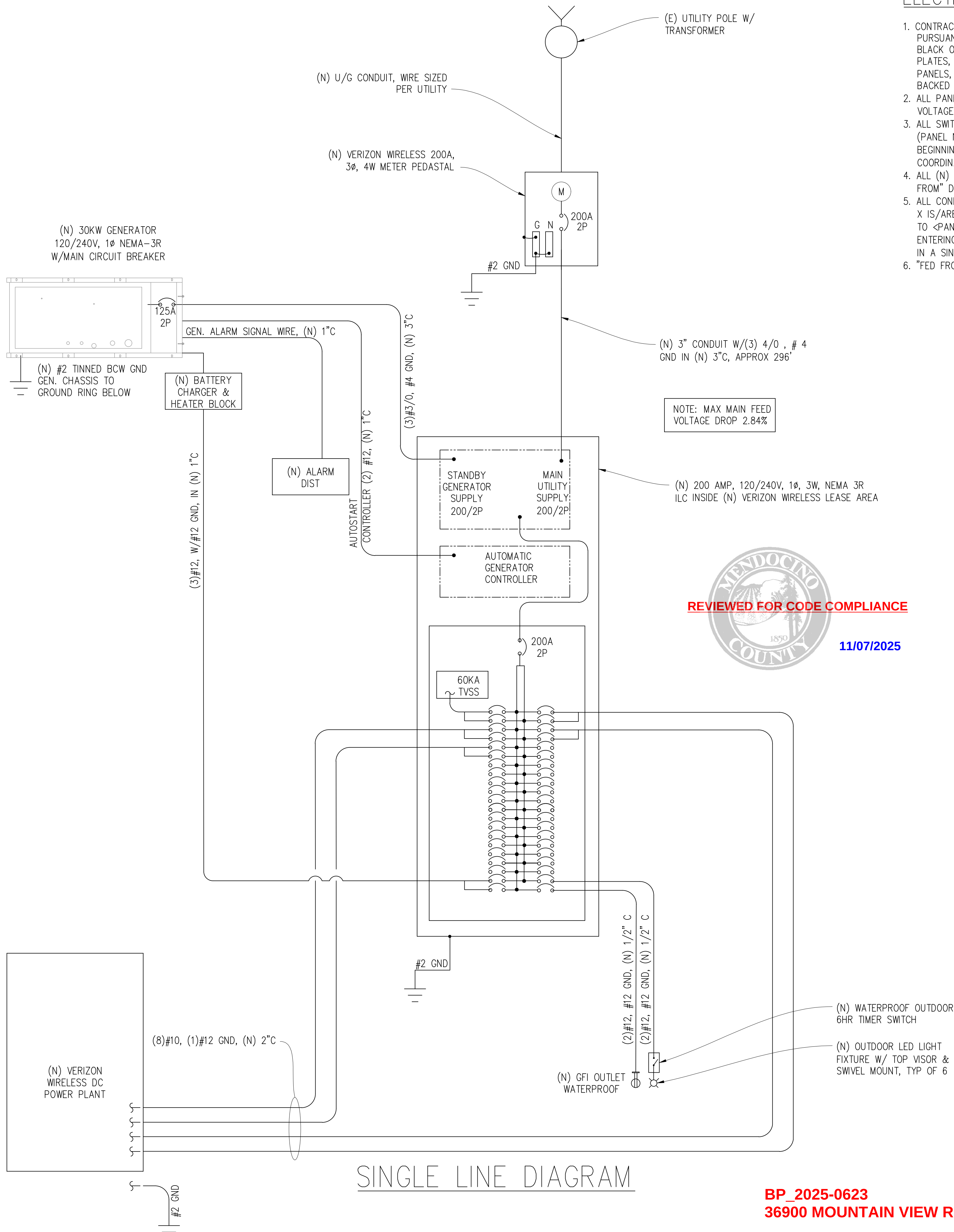
11 PIPE MOUNT
 $\frac{3}{4}"=1'-0"$



FRONT VIEW

12 PIPE MOUNT
 $\frac{1}{2}''=1'$

S-1.2

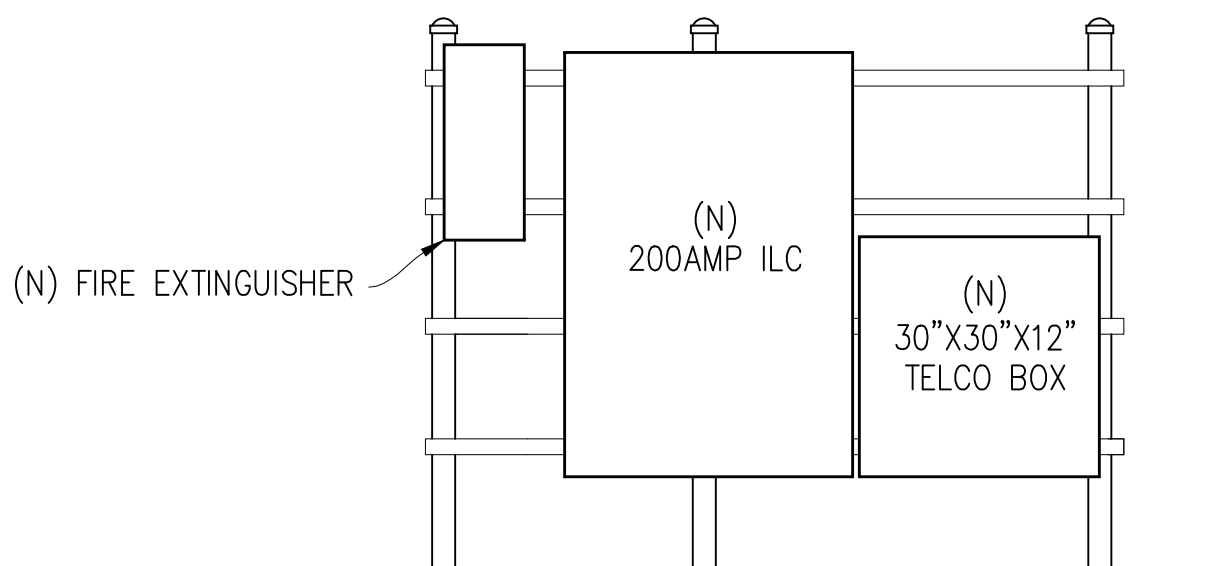


ELECTRICAL LABELING REQUIREMENTS

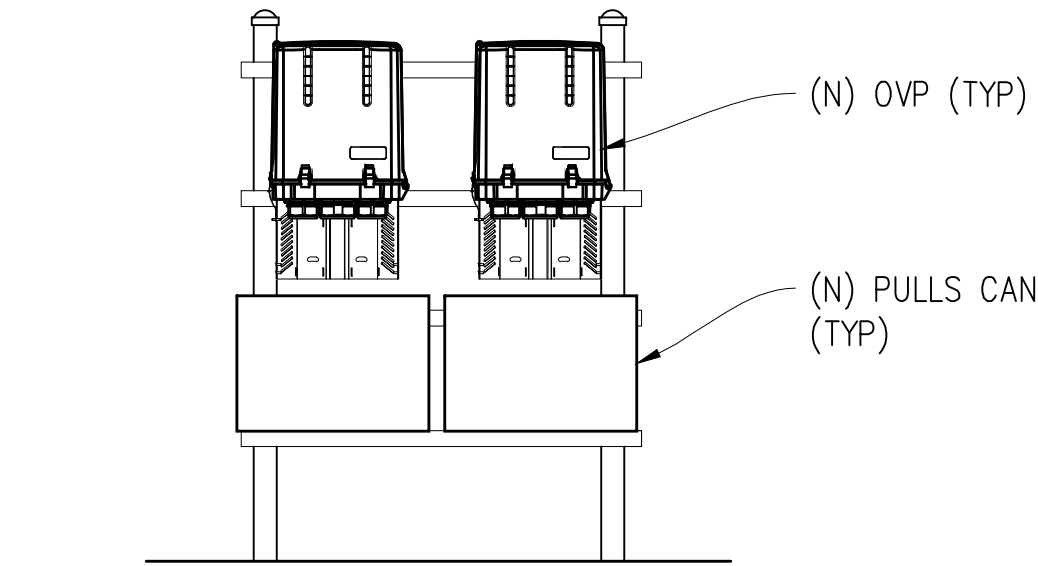
- CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INSTALLED OR ALTERED PURSUANT TO THIS CONTRACT PER THE FOLLOWING. LABELS SHALL BE PERMANENT BLACK ON WHITE PEEL & STICK LABEL MAKER TYPE FOR ALL SWITCH & OUTLET PLATES, CONDUITS AND CEILING FIXTURES, AND SHALL BE PHENOLIC TAG TYPE FOR PANELS, XFMR's, PULL BOXES, ETC.; PHENOLIC TAGS SHALL BE RED IN COLOR WHERE BACKED UP BY GENERATOR
- ALL PANELS, XFMR's AND PULL BOXES SHALL BE LABELED WITH DEVICE 'NAME', VOLTAGE(S), RATING FOR XFMR's, AND "FED FROM" DATA
- ALL SWITCH & OUTLET PLATES SHALL BE LABELED WITH "FED FROM" CIRCUIT DATA (PANEL NAME & CIRCUIT#); ALL GANG SWITCHES SHALL BEAR SWITCH NUMBERS BEGINNING W/#1 ON LEFT OF THE MAIN LIGHTING SWITCH FOR EACH ROOM FOR COORDINATION W/FIXTURE LABELS.
- ALL (N) OR RETROFITTED LIGHTING FIXTURES SHALL BE LABELED WITH THE "FED FROM" DATA (SWITCH#)
- ALL CONDUITS EXITING A PANEL BOARD SHALL BE LABELED "CIRCUIT(S) 'X'..." WHERE X IS/ARE THE BREAKER#(S). CONDUITS EXITING XFMR'S SHALL BE LABELED "FEEDER TO <PANEL, DEVICE>", E.G. "FEEDER TO PANEL <panel name>. CONDUITS ENTERING/EXITING A ROOM OR FLOOR SHALL BE LABELED AT THE ENTRY & EXIT (OR IN A SINGLE LOCATION IF OBVIOUS) W/"FED FROM..." & "TO PANEL/XFMR/..." DATA.
- "FED FROM: DATA = <panel name> <brkr#> EG: "PANEL X/1,3,5")

ELECTRIC LEGEND

- (M) METER
- (C) CIRCUIT BREAKER
- (G) SERVICE GROUND
- (W) WIRED CONNECTION
- (T) TIMER SWITCH, WATERPROOF
- (L) OUTDOOR LIGHT
- (O) GFI OUTLET, WATERPROOF



UTILITY ELEVATIONS



UTILITY ELEVATIONS

PANEL SCHEDULE

NAMEPLATE : PANEL A				SC LEVEL : 22,000				VOLTS: 120V/240V, 1ø			
LOCATION : OUTSIDE								BUS AMPS: 200A			
MOUNTING : H-FRAME								MAIN CB: 200A			
øA	øB	LOAD DESCRIPTION	BKR AMP/ POLE	CIRCUIT NO		BKR AMP/ POLE	LOAD DESCRIPTION	øA	øB		
LOAD VA	LOAD VA			1	2			LOAD VA	LOAD VA		
30		SURGE ARRESTOR	60/2	1	2	30/2	(N) DC POWER PLANT	2292			
	30	" "	" "	3	4	" "	" "		2292		
2292		(N) DC POWER PLANT	30/2	5	6	30/2	" "	2292			
	2292	" "	" "	7	8	" "	" "		2292		
2292		" "	30/2	9	10	—	BLANK				
	2292	" "	" "	11	12	—	" "				
		BLANK	—	13	14	—	" "				
		" "	—	15	16	—	" "				
		" "	—	17	18	—	" "				
		" "	—	19	20	—	" "				
		" "	—	21	22	—	" "				
		" "	—	23	24	—	" "				
		" "	—	25	26	—	" "				
		" "	—	27	28	—	" "				
		" "	—	29	30	—	" "				
		" "	—	31	32	—	" "				
		" "	—	33	34	—	" "				
		" "	—	35	36	—	" "				
		" "	—	37	38	—	" "				
1000		(N) GEN. HEATER	20/1	39	40	20/1	LIGHTS		300		
	300	(N) GEN. BATTERY CHARGER	20/1	41	42	20/1	GFI RECEPTACLE	180			
5614	4914	PHASE TOTALS					PHASE TOTALS	4764	4884		
TOTAL VA =	20176	TOTAL AMPS =	84								
TOTAL KVA =	20.18										

ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE 2022 CEC AS WELL AS ALL ADOPTED STANDARDS, APPLICABLE STATE AND LOCAL CODES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
- ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- ELECTRICAL WIRING SHALL BE COPPER #12 AWG MIN WITH TYPE THHN, THWN-2 OR THW-2, INSULATION RATED FOR 90°C DRY OR 70°C WET.
- ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
- ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
- A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
- WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.
- WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY PLAN DETAILS WITH THE UTILITY'S SERVICE PLAN & REQ'TS INCLUDING SERVICE VOLTAGE, METER LOCATION, MAIN DISCONNECTING MEANS, AND AIC REQ'T, AND SHALL OBTAIN CLARIFICATION FROM THE PROJECT ENGINEER ON ANY DEVIATIONS FOUND IN THESE PLANS.
- WHERE THESE PLANS SHOW A DC POWER PLANT, THE INSTALLATION OPERATING AT LESS THAN 50 VDC UNGROUNDED, 2-WIRE, SHALL COMPLY WITH ARTICLE 720, AS FOLLOWS:
 - POWER PLANT SHALL BE SUPPLIED BY THE WIRELESS CARRIER AS A PULL-TAG ITEM AND INSTALLED BY THE CONTRACTOR.
 - CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG COPPER MIN, CONDUCTORS FOR BRANCH CIRCUITS SUPPLYING MORE THAN ONE APPLIANCE SHALL BE 10 AWG CU MIN; CONTRACTOR SHALL SIZE CONDUCTORS BASED ON MFG'R'S DATA FOR THE APPLIANCES SERVED.
 - THERE ARE NO DC RECEPTACLES OR LUMINARIES ALLOWED ON THIS PROJECT. ALL CIRCUITS SHALL ORIGINATE AT AN INTEGRATED DOUBLE LUG TAP OR SOCKET TERMINATION ON AN INTEGRATED DC CIRCUIT BREAKER AT AN INDIVIDUAL RECTIFIER MODULE AND TERMINATE AT THE SPECIALIZED LUG ON THE RESPECTIVE APPLIANCE AS A SINGLE RUN OF WIRE WITHOUT SPLICES. ALL DC WIRING SHALL BE LABELED AT THE DC PLANT WITH THE APPLIANCE SERVED AND THE DC VOLTAGE.
 - ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND SUPPORTED BY BUILDING STRUCTURE, EG. (N) CABLE TRAY OVERHEAD, IN SUCH A MANNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL USE.

Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:

COMPLETE
Wireless Consulting, Inc.

MDG LOCATION ID: 5000968102

PROJECT ID: 17393308

DRAWN BY: FS

CHECKED BY: N. GEORGE

APPROVED BY: J. SPORE

ISSUE STATUS

REV	DATE	DESCRIPTION	CAD
3	10/21/25	CLIENT REV	J.Z.
2	10/01/25	CD 100%	J.Z.
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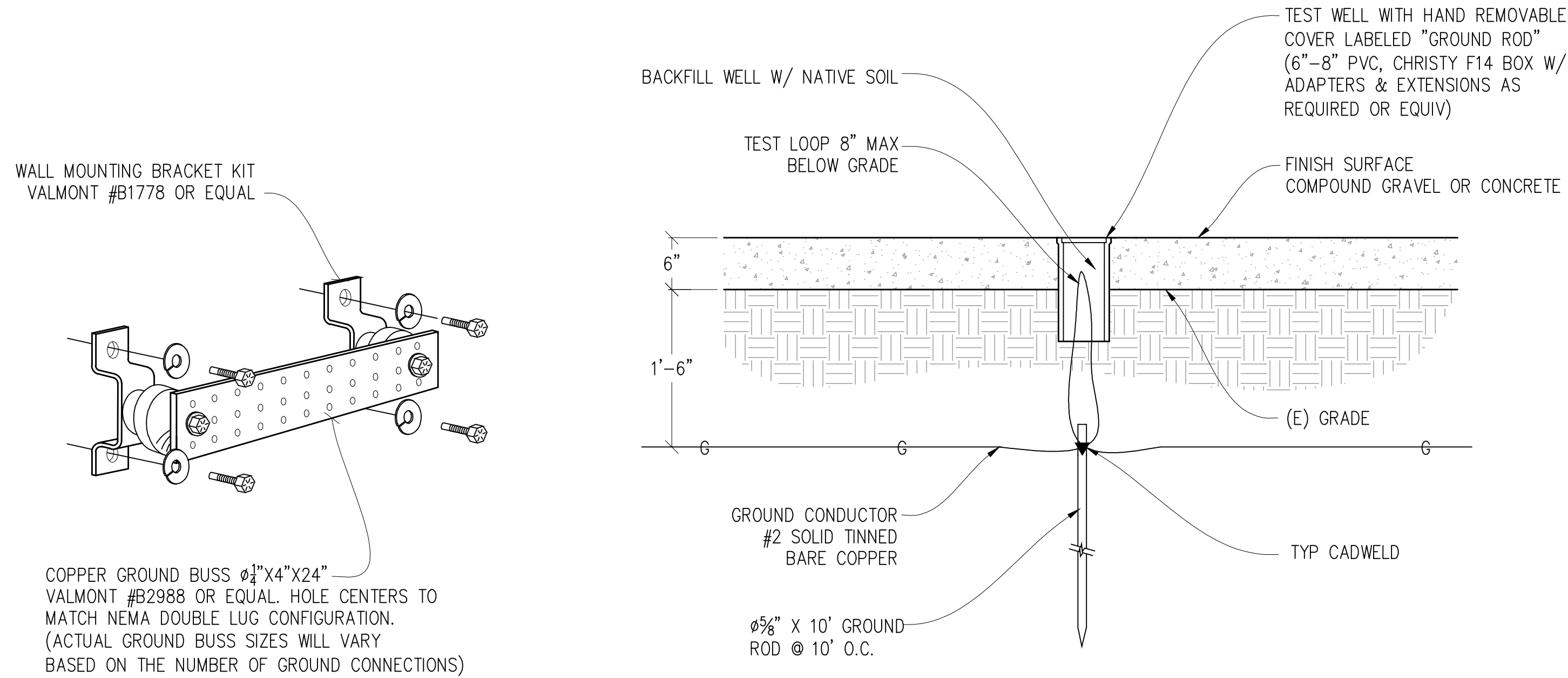
SHEET TITLE:

**ELECTRICAL
PLAN**

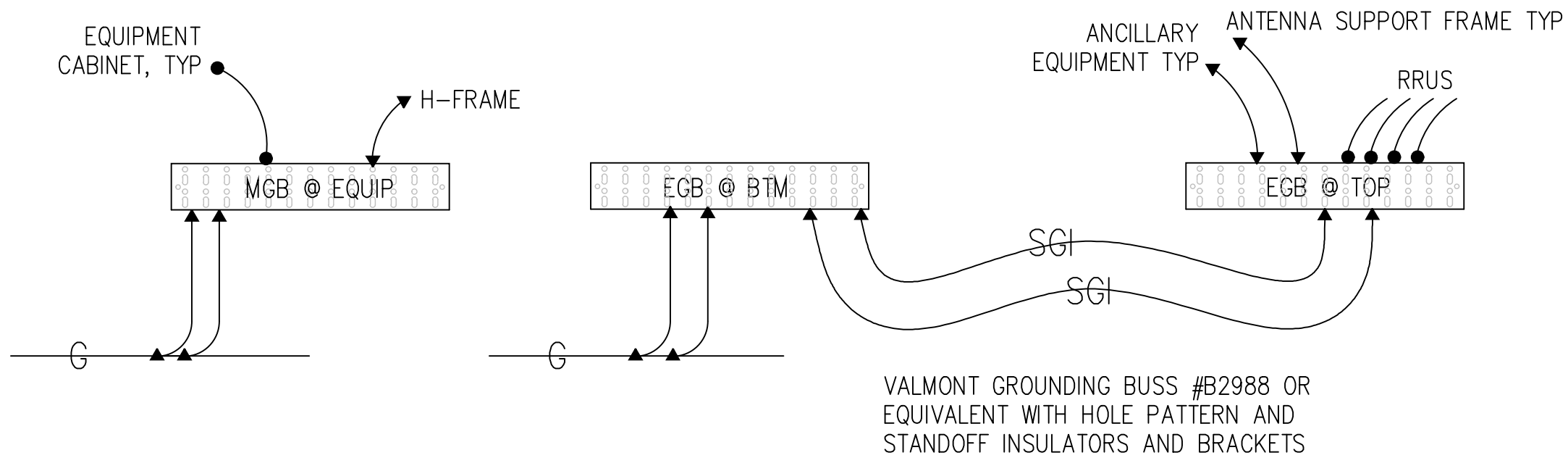
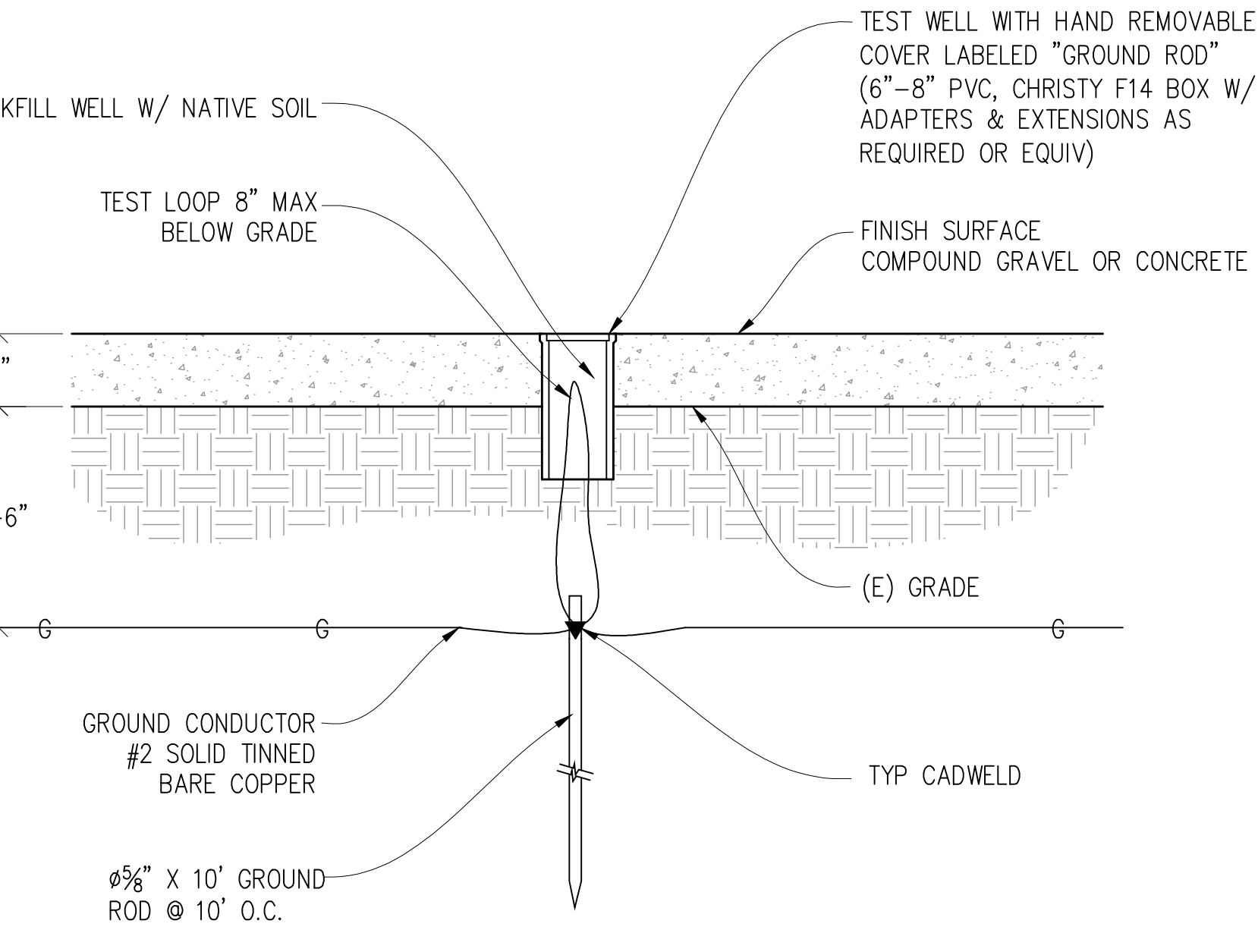
SHEET NUMBER:

E-1.1

BP_2025-0623
36900 MOUNTAIN VIEW RD



1 GROUND BUSS DETAIL
NOT TO SCALE



GROUNDING NOTES

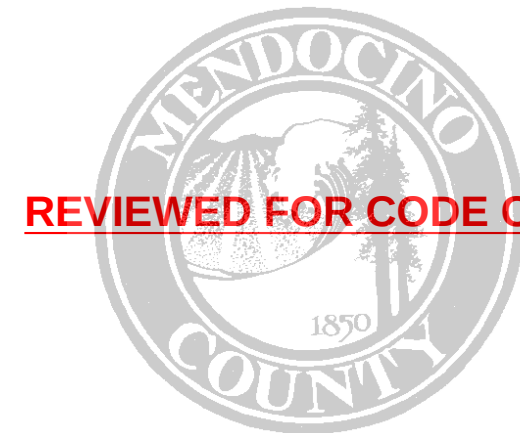
- GROUNDING SHALL COMPLY WITH CEC ARTICLE 250.
- USE #2 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- EXPOSED GROUNDING CONNECTIONS SHALL BE MADE WITH BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR EXOTHERMIC WELDS AS SPECIFIED IN THE PLANS.
- CONNECTIONS TO EQUIPMENT SHALL BE MADE USING STAINLESS STEEL HARDWARE.
- APPLY BUTYL & ELECTRICAL TAPE OVER COLD SHRINK AT ALL LOCATIONS FOR WEATHER PROOFING OVER COAX GROUND KITS.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS WITH STAR WASHERS AND NO-OX OR EQUIVALENT PLACED BETWEEN CONNECTOR AND GROUND BAR.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE A 12" RADIUS BEND, HOWEVER, #6 WIRE CAN BE BENT AT A 6" RADIUS WHEN NECESSARY.
- THE SYSTEM GROUND RESISTANCE MUST BE 10 OHMS OR LESS. TO ACHIEVE THIS LEVEL OF RESISTANCE THE CONTRACTOR SHALL PURSUE ONE OF THE FOLLOWING FOUR OPTIONS:

- CONNECT TO EXISTING GROUNDING SYSTEMS
- CONNECT TO BUILDING STEEL COLUMNS
- INSTALL A NEW GROUNDING SYSTEM

UPON COMPLETION OF THE GROUNDING INSTALLATION THE CONTRACTOR SHALL EMPLOY AN OWNER APPROVED 3RD PARTY TO CONDUCT A "FALL OF POTENTIAL" TEST AND SUBMIT A REPORT OF SUCH TEST FOR APPROVAL TO EITHER THE OWNER OR CONSTRUCTION MANAGER.

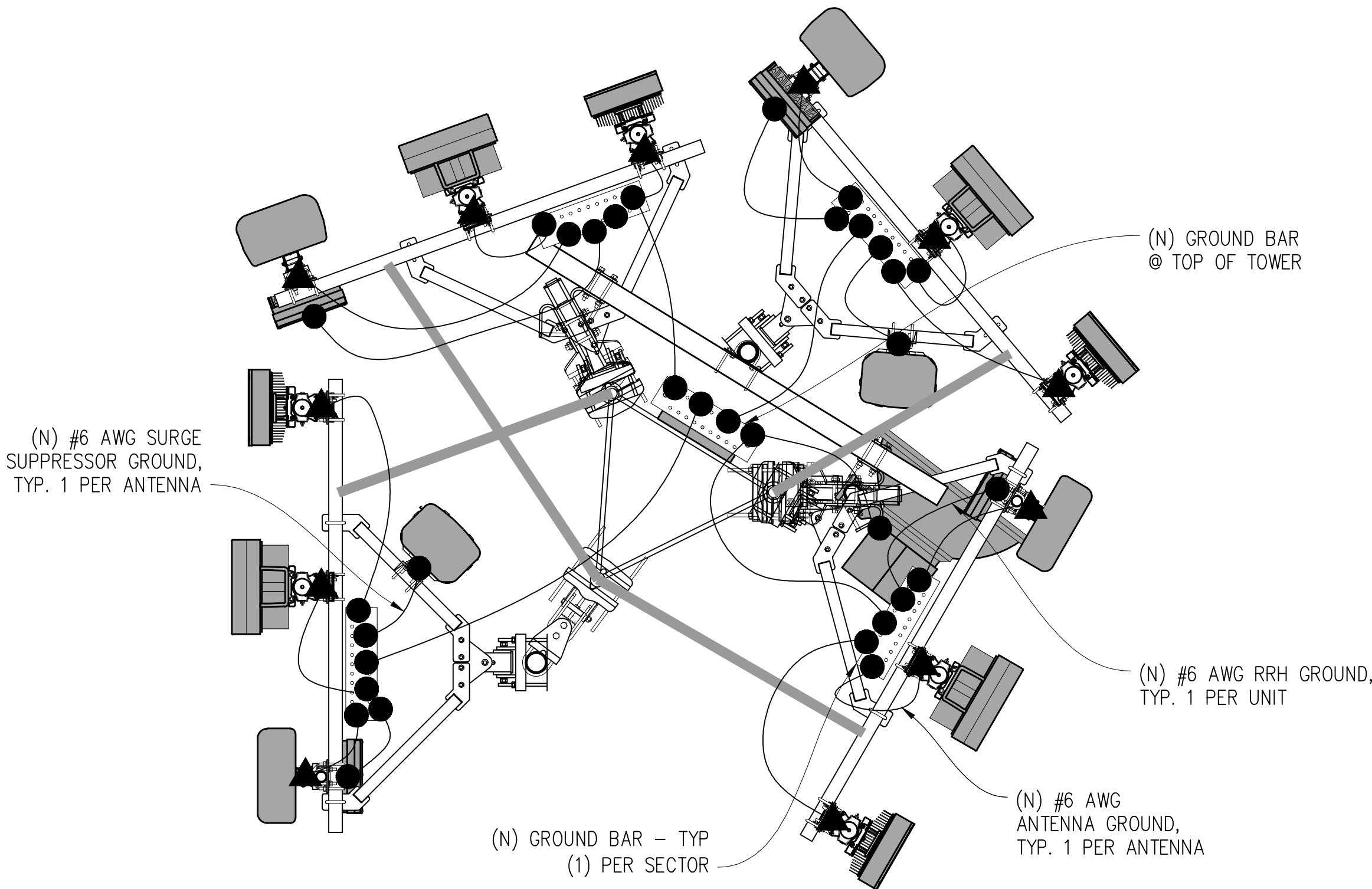
GROUNDING LEGEND

- MECHANICAL CONNECTION
- EXOTHERMIC CADWELD
- TYP. CADWELD INSPECTION WELL
- TYP $\frac{5}{8}"$ DIA. X 10'-0" LONG COPPER CLAD GROUND ROD @ 10' O.C. MAX & 18" MIN BELOW FINISH GRADE
- GATE GROUNDING STRAP
- TYP #2 TINNED BCW UNDERGROUND GND RING @ 18" MIN BELOW FINISH GRADE
- GROUND WIRE #2 STRANDED GREEN INSULATED WIRE



REVIEWED FOR CODE COMPLIANCE

11/07/2025



ANTENNA GROUNDING PLAN

Issued For:

MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
WALNUT CREEK, CA 94598

Vendor:



MDG LOCATION ID: 5000968102

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DRAWN BY: FS

CHECKED BY: N. GEORGE

APPROVED BY: J. SPORE

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Licensee:



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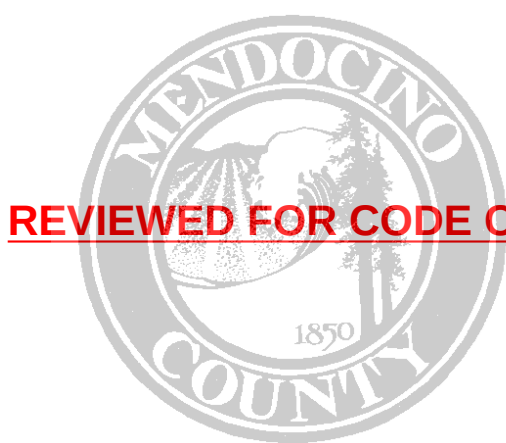


SHEET TITLE:

GROUNDING PLAN
NOTES & DETAILS

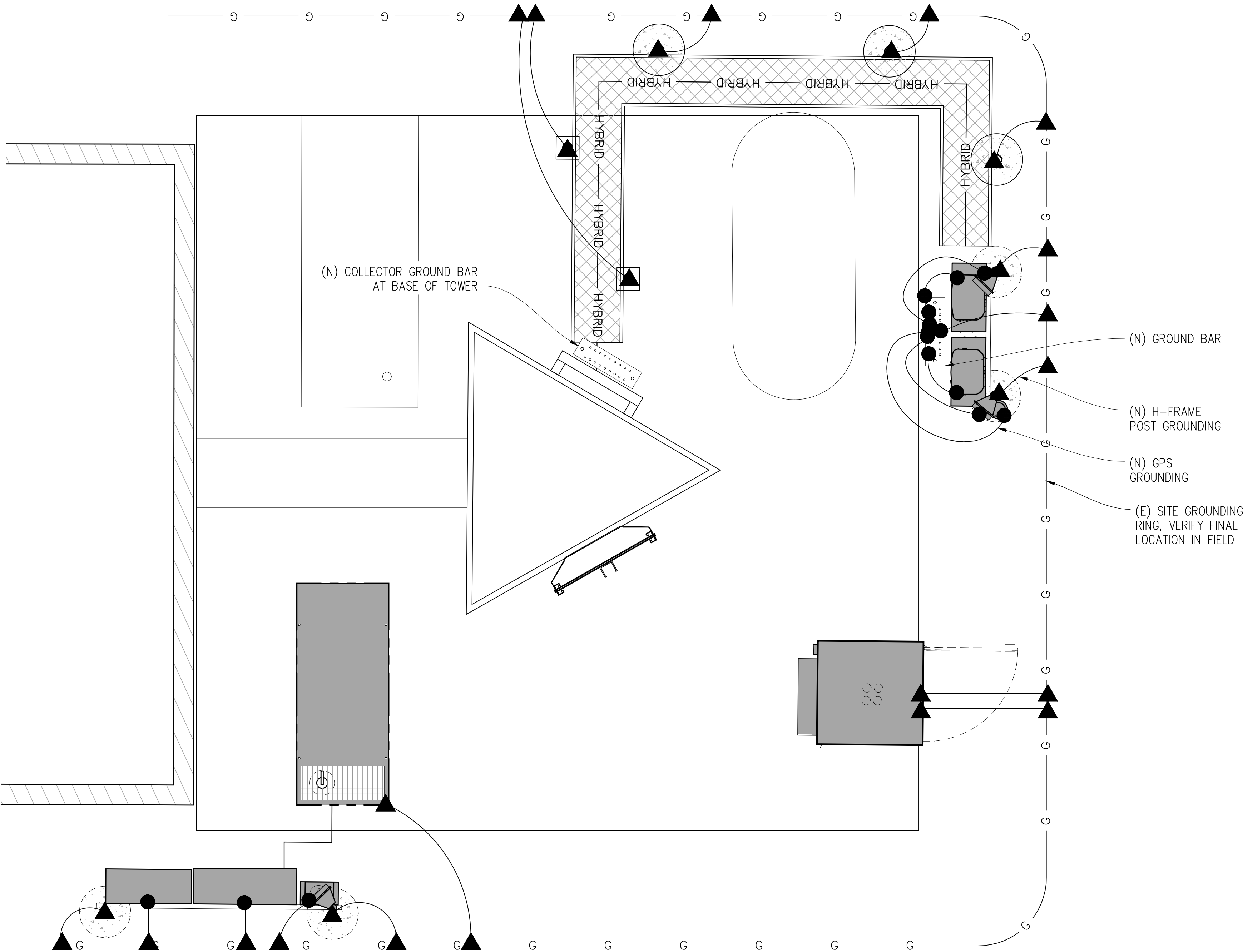
SHEET NUMBER:

E-1.2



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11/07/2025



EQUIPMENT GROUNDING PLAN

BP_2025-0623
36900 MOUNTAIN VIEW RD

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MTN ROAD

36900 MOUNTAIN VIEW ROAD
MANCHESTER, CA 95459

PREPARED FOR

verizon

2770 SHADELANDS DR, BLDG 11
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ENGINEER:



SHEET TITLE:

GROUNDING
PLAN

SHEET NUMBER:

E-1.3