

**COUNTY OF SAN MATEO
PLANNING AND BUILDING DEPARTMENT**

DATE: July 16, 2026

TO: Zoning Hearing Officer

FROM: Planning Staff

SUBJECT: Consideration of a Use Permit amendment/renewal, pursuant to Chapters 8.280 and 8.376 of the San Mateo County Ordinance Code, to allow modifications to an existing wireless telecommunication facility at the Moss Beach Sheriff's Office. The project is located at 500 California Avenue in the unincorporated Moss Beach area of San Mateo County. This project is not appealable to the California Coastal Commission.

County File Number: PLN2005-00549 (T-Mobile)

PROPOSAL

The applicant, T-Mobile, proposes to modify an existing wireless telecommunications facility located on a flagpole located in front of the San Mateo County Sheriff's substation in Moss Beach. The existing flagpole contains a three-panel antenna array at its top. The panels are hidden behind a painted shroud in order to blend in with the rest of the pole and are of the same diameter as the lower portion of the pole. The total approved height of the pole is 38 feet. With this amendment, the applicant is proposing to replace the existing panels with a wider diameter array that will also be longer in height. The upper portion of the existing pole will be cut down to allow for the greater height of the new array. However, total pole height will remain at 38 feet.

In addition to the modifications to the flagpole, the applicant is proposing to replace the existing ground-mounted "Sheriff San Mateo County" monument sign that is adjacent to the flagpole. This existing sign is single-sided and faces towards Cabrillo Highway. In its place, the applicant is proposing to construct a three-sided, ground mounted sign that will wrap around the pole and face the adjacent streets and parking area. On the inside face of this new wraparound sign, the applicant will place additional equipment cabinets necessary for the operation of the modified site. Finally, the applicant is proposing to replace/upgrade the equipment cabinets in the existing equipment enclosure located at the rear of the substation's parking lot. No grading or tree removal is proposed or required to construct the proposed modifications. The flagpole portion of the project is located within the boundaries of the Cabrillo Highway County Scenic Corridor.

RECOMMENDATION

That the Zoning Hearing Officer approve the Use Permit amendment/renewal, County File Number PLN2005-00549, subject to the findings and conditions of approval listed in Attachment A.

BACKGROUND

Report Prepared By: Michael Schaller, Senior Planner

Applicant: Butler America for T-Mobile West, c/o Andrea Liu

Owner: Dan and Linda Bortolotti Trust

Public Notification: A 10-day advanced notification for the hearing was mailed to property owners within 300 feet of the project parcel.

Location: 500 California Avenue, Moss Beach

APN: 037-141-010

Size: approx. 10,300 sq. ft.

Existing Zoning: C-1/S-3/DR/CD (Neighborhood Commercial/5,000 sq. ft. min. parcel size/Design Review/Coastal Development)

General Plan Designation: Neighborhood Commercial

Local Coastal Plan Designation: Neighborhood Commercial

Sphere-of-Influence: Half Moon Bay

Existing Land Use: San Mateo County Sheriff's Substation

Water Supply: Montara Water and Sanitary District

Sewage Disposal: Montara Water and Sanitary District

Flood Zone: Flood Zone "X" Area of Minimal Flood Hazard, FEMA Firm Panel 06081C0119F, Effective Date: 08/02/2017

Environmental Evaluation: The project is categorically exempt under the provisions of Class 3, Section 15303 of the California Environmental Quality Act (CEQA) Guidelines for the construction of new small structures and the installation of small new equipment in small structures.

Setting: The subject property is located on California Avenue at the northeast corner of the intersection with Carlos Street. Highway 1 lies beyond Carlos Street, approximately 75 feet to the southwest. The site is developed with a single-story building that houses the San Mateo County Sheriffs Moss Beach substation. There are no other wireless telecommunications facilities on the property. The surrounding community of Moss Beach is predominantly developed with single-family residential uses. A convenience store is located to the southeast, and a church is located across Highway 1 to the southwest.

Chronology:

<u>Date</u>	<u>Action</u>
September 7, 2006	- Wireless Telecommunication Facility approved by the Zoning Hearing Officer
November 29, 2007	- Administrative Review and Inspection passed, permit renewed
September 7, 2011	- Use Permit expired
August 2, 2012	- Use Permit renewed
November 4, 2025	- Use Permit Renewal/Amendment submitted
July 16, 2026	- ZHO Hearing

DISCUSSION

A. KEY ISSUES

1. Conformance with the General Plan

Staff has reviewed the project for conformance with all applicable General Plan Policies, as discussed below.

Visual Quality Policies

Policy 4.21 – (*Utility Structures*). This policy requires the minimization of adverse visual impacts from utility structures, including roads, roadway and building signs, overhead wires, utility poles, T.V. antennae, distributed energy resources, solar water heaters, and satellite dishes.

The replacement antennas are enclosed within a 38-foot-tall flagpole. The flagpole is tapered, measuring 1-foot in diameter at the base and 9 inches in diameter at the top. The new antennas are hidden behind a shroud structure

that's painted to match the existing pole. With the shroud surrounding the new antennas, the array will have a diameter of 1.5 feet.

The two replacement equipment cabinets are within an equipment lease area measuring 135 sq. ft., enclosed within a chain-link fence with redwood slats measuring 8 feet in height. The lease area is located at the northwest corner of the project site, set back approximately 150 feet from Highway 1.

The third component of the project involves the replacement of the existing "Sheriff's Office" sign with a new three sided "Sheriff's Office" sign that will wrap around the flagpole. The existing sign is single facing towards Highway 1. The new sign will face both Highway 1 and California Avenue, as well as the parking lot at the rear of the parcel. On the inside face of this new sign, out of view from public roads and spaces, the applicant is proposing to place small equipment boxes needed to efficiently operate the cell facility.

After reviewing the proposed modifications to the flagpole mounting, staff believes this modification will have negligible new visual impacts. The new three-sided sign will have a modest visual impact. While it will increase the total amount of man-made objects on the site, the new sign will be viewed against the backdrop of the existing Sheriff's building and will not be visually prominent from the adjacent public viewing points. Staff believes the proposed modifications comply with the intent of this policy.

2. Conformance with the Local Coastal Program

Staff has reviewed the project for conformance with all applicable Local Coastal Program Policies, as discussed below.

Visual Resources Component

Policy 8.13 – (*Special Design Guidelines for Coastal Communities*). For the Moss Beach community, this policy requires structures to be designed so that they are in scale with the character of their setting and blend rather than dominate or distract from the overall view of the urban landscape. The existing flagpole will not change in overall height and only modestly in width. The existing single facing sign is approximately 6 feet in height. The proposed three-sided sign will also be 6 feet in height. Staff believes these changes are modest in scope and blend into the existing urban landscape.

3. Conformance with the Zoning Regulations

The project parcel is zoned C-1/S-3/DR/CD (Neighborhood Business Districts/5,000 sq. ft. Minimum Parcel Size/Design Review District/Coastal Development District). The existing wireless telecommunication facility is

operating under a previously approved Use Permit and the project was constructed and has been maintained in accordance with approved plans.

4. Conformance with the Wireless Telecommunications Regulations

In accordance with Section 8.376.030.VI of the County Ordinance Code (Wireless Telecommunication Facilities - WTF), existing facilities built prior to January 9, 2009, are subject to the provisions of the Ordinance Code related to new facilities. Staff has reviewed the project against the provisions of the Wireless Telecommunication Facilities regulations and determined that the project complies with the applicable standards discussed below:

a. Development and Design Standards

Section 8.376.040.I of the WTF regulations discuss location, minimizing visual impacts, maximum height, and future co-location of wireless facilities. The portion of the project parcel where the existing flagpole and new monument signs are located within the boundaries of the Cabrillo Highway County Scenic Corridor. Visual impact of the facility is mitigated through the use of screening material around the antennas on the flagpole and the use of the new monument sign to screen the new equipment boxes (to be located on the inward facing side of the monument signs). There are no other wireless telecommunications carriers present on the site. In addition, there are no pending applications for additional carriers to co-locate at the site and there are no further expansions planned or anticipated at this time.

b. Performance Standards

The facility continues to be compliant with the required performance standards of Section 8.376.040.II for lighting, licensing, provision of a permanent power source, timely removal of the facility, and visual resource protection. The facility does not include any exterior lighting, proper licenses have been obtained from both the FCC and CPUC, power for the facility is provided by PG&E, there is minimal visual impact, and conditions of approval included in Attachment A of this report, continue to require maintenance and/or removal of the facility when necessary.

5. Compliance with Conditions of Last Approval

Listed below are the conditions of approval from the last Use Permit approval letter, dated August 2, 2012. Following each condition is staff's analysis of condition compliance and whether a particular condition should be retained or modified.

- (1) This permit shall be valid for 10 years until August 2, 2022. The applicant shall file for a renewal of this permit six months prior to expiration with the San Mateo County Planning and Building Department, by submitting the applicable application forms and paying the applicable fees, if continuation of this use is desired. Any modifications to this facility will require a Use Permit amendment. If an amendment is requested, the applicant shall submit the necessary documents and fees for consideration at a public hearing.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes, but modified to reflect current date and language.

- (2) This approval applies only to the proposal, documents, and plans described in this staff report and approved by the Zoning Hearing Officer on August 2, 2012. Minor revisions or modifications to the project may be made if they are consistent with the intent of and in substantial conformance with this approval, subject to the review and approval of the Director of Planning and Building.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes, but modified to reflect current date.

- (3) The flagpole shall remain painted a gray color that matches the color of the utility pole located at the corner of California Avenue and Carlos Street. The pole shall be repainted when necessary.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes.

- (4) The flagpole shall be maintained in such a manner that will allow a flag to be freely raised and lowered. No supplemental lighting may be installed for the purpose of illuminating the flagpole.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes.

- (5) The chain-link fencing surrounding the equipment cabinets shall be maintained with redwood slats and shall not exceed a maximum height of 8 feet. The fence shall be maintained in good condition, and any damage to the fence shall be promptly repaired. All repairs shall match the appearance, materials, and workmanship of the fence as originally constructed.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes.

- (6) This installation shall be removed in its entirety at that time when this technology becomes obsolete or this facility is discontinued for 180 consecutive days.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes.

- (7) The applicant shall not enter into a contract with the landowner or lessee which reserves for one company exclusive use of structures on this site for telecommunications facilities.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes.

- (8) Construction hours shall be Monday through Friday 8:00 a.m. to 6:00 p.m., Saturday 9:00 a.m. to 5:00 p.m., and no construction will be allowed on Sundays or national holidays. Noise levels produced by the proposed construction activity shall not exceed 80-dBA at any one moment.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes.

- (9) An encroachment permit shall be obtained from the Department of Public Works prior to any construction or other work within the public right-of-way.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes.

- (10) All buildings that have a street address shall have the number of that address on the building, mailbox or other type of sign at the driveway entrance in such a manner that the number is easily and clearly visible from either direction of travel from the street. New commercial buildings shall have internally illuminated address numbers contrasting with the background so as to be seen from the public way fronting the building. Address numbers shall be at least 6 feet above the finished surface of the driveway. An address sign shall be placed at each break of the road, where deemed applicable by the Coastside Fire Protection district. Numerals shall be contrasting in color to their background and shall be no less than 4 inches in height and have a minimum 3/4-inch stroke.

Compliance with Condition? Yes.

Recommend Retaining Condition? Yes.

B. ENVIRONMENTAL REVIEW

This project is exempt from environmental review pursuant to the California Environmental Quality Act (CEQA), Section 15303, Class 3, relating to the construction of new small structures and the installation of small new equipment in small structures.

C. REVIEWING AGENCIES

Coastside Fire Protection District
Building Inspection Section
Department of Public Works
Sheriff's Office
California Coastal Commission
Midcoast Community Council

ATTACHMENTS

- A. Recommended Findings and Conditions of Approval
- B. Vicinity and Location Map
- C. Project Plans
- D. Photo Simulations
- E. RF Report

County of San Mateo
Planning and Building Department

RECOMMENDED FINDINGS AND CONDITIONS OF APPROVAL

Permit or Project File Number: PLN2005-00549

Hearing Date: July 16, 2026

Prepared By: Michael Schaller
Senior Planner

For Adoption By: Zoning Hearing Officer

RECOMMENDED FINDINGS

For the Environmental Review, Find:

1. That this project is exempt from environmental review pursuant to the California Environmental Quality Act (CEQA), Section 15303, Class 3, relating to the construction of new small structures and the installation of small new equipment in small structures.

For the Use Permit, Find:

2. That the establishment, maintenance, and conducting of the proposed use will not, as conditioned, under the circumstances of the particular case, result in a significant adverse impact to coastal resources, or be detrimental to the public welfare or injurious to property or improvements in said neighborhood in that State and Federal radio frequency emissions standards and safety measures will be met and the project will not present a significant visual impact.
3. That the approval of this wireless telecommunications addition is necessary for the public health, safety, convenience or welfare, since the project provides clarity, range and capacity to the existing wireless network and enhances service for the general public.

RECOMMENDED CONDITIONS OF APPROVAL

Current Planning Section

1. This permit shall be valid for 10 years until July 16, 2036. The applicant shall file for a renewal of this permit six months prior to expiration with the San Mateo County Planning and Building Department, by submitting the applicable application forms and paying the applicable fees, if continuation of this use is desired. Any additional modifications to this facility will require a Use Permit amendment. If an amendment is requested, the applicant shall submit the necessary documents and fees for consideration at a public hearing.
2. This approval applies only to the proposal, documents, and plans described in this staff report and approved by the Zoning Hearing Officer on July 16, 2026. Minor revisions or modifications to the project may be made if they are consistent with the intent of and in substantial conformance with this approval, subject to the review and approval of the Director of Planning and Building.
3. The flagpole shall remain painted a gray color that matches the color of the utility pole located at the corner of California Avenue and Carlos Street. The pole shall be repainted when necessary.
4. The flagpole shall be maintained in such a manner that will allow a flag to be freely raised and lowered. No supplemental lighting may be installed for the purpose of illuminating the flagpole.
5. The chain-link fencing surrounding the equipment cabinets shall be maintained with redwood slats and shall not exceed a maximum height of 8 feet. The fence shall be maintained in good condition, and any damage to the fence shall be promptly repaired. All repairs shall match the appearance, materials, and workmanship of the fence as originally constructed.
6. This installation shall be removed in its entirety at the time when this technology becomes obsolete or this facility is discontinued for 180 consecutive days.
7. The applicant shall not enter into a contract with the landowner or lessee which reserves for one company exclusive use of structures on this site for telecommunications facilities.
8. Construction hours shall be Monday through Friday 8:00 a.m. to 6:00 p.m., Saturday 9:00 a.m. to 5:00 p.m., and no construction will be allowed on Sundays or national holidays. Noise levels produced by the proposed construction activity shall not exceed 80-dBA at any one moment.
9. An encroachment permit shall be obtained from the Department of Public Works prior to any construction or other work within the public right-of-way.

10. All buildings that have a street address shall have the number of that address on the building, mailbox or other type of sign at the driveway entrance in such a manner that the number is easily and clearly visible from either direction of travel from the street. New commercial buildings shall have internally illuminated address numbers contrasting with the background so as to be seen from the public way fronting the building. Address numbers shall be at least 6 feet above the finished surface of the driveway. An address sign shall be placed at each break of the road, where deemed applicable by the Coastside Fire Protection district. Numerals shall be contrasting in color to their background and shall be no less than 4 inches in height and have a minimum 3/4-inch stroke.



County of San Mateo - Planning and Building Department

ATTACHMENT B





County of San Mateo - Planning and Building Department

ATTACHMENT C

T-Mobile®

SITE NUMBER: SF71572M - ANCHOR
SITE NAME: MOSS BEACH SHERIFF'S STATION
SITE TYPE: SLIMLINE POLE

CITY: MOSS BEACH
COUNTY: SAN MATEO
JURISDICTION: COUNTY OF SAN MATEO

PROJECT SUMMARY:

SITE ADDRESS: 500 CALIFORNIA AVE
MOSS BEACH, CA 94038

GEODETIC COORDINATES (NAD 83):
LATITUDE: 37.52770° N
LONGITUDE: -122.51304° W

PROPERTY OWNER:
WILLIAM SHAW
3 QUAIL RUN CIRCLE, SUITE 103
SALINAS, CA 93907

APPLICANT:
T-MOBILE WEST LLC
1200 CONCORD AVE., SUITE 500
CONCORD, CA 94520

BUILDING SUMMARY:
OCCUPANCY CLASSIFICATION: B (TELEPHONE EXCHANGE)
TYPE OF CONSTRUCTION: V-B
ZONING: C1
TOTAL LEASE AREA: NO CHANGE
ASSESSORS PARCEL NUMBER: 037-141-010

SCOPE OF WORK

PROJECT DESCRIPTION
(RF CONFIG. :)
THIS PROJECT INCLUDES THE MODIFICATIONS TO AN EXISTING T-MOBILE WIRELESS FACILITY, INCLUDING:

ANTENNA SCOPE OF WORK:

- INSTALL (1) NEW 16"Ø MODULAR TRI-SECTOR ANTENNA
- INSTALL (6) STYLE 3CY TMA'S, (2) PER SECTOR IN A NEW SHROUD COVER
- INSTALL NEW JUMPER CABLES FROM TMA'S TO ANTENNA
- REMOVE (3) EXISTING PANEL ANTENNAS
- REMOVE EXISTING RADOME
- CUT TOP PORTION OF (E) SLIMLINE POLE FOR NEW ANTENNA
- INSTALL EME SIGNAGE PER SHEET EME-1

EQUIPMENT SCOPE OF WORK:

- ADD (1) E6160v2 RADIO CABINET
- ADD (1) B160 BATTERY CABINET
- ADD (1) BB RP6651 FOR N2500
- ADD (1) BB RP6651 FOR LB PLUS MB IN MM
- ADD (1) CSR IXRE V2 ROUTER IN (N) 6160v2
- ADD (2) 6/24 HYBRID TRUNK CABLES TO RADIOS AT BASE OF POLE - 60m
- ADD (12) 1/2" STANDARD COAX CABLES FROM RADIOS TO TMA'S AT ANTENNA
- REMOVE (3) EXISTING CABINETS
- REMOVE ALL (E) COAX CABLES
- REMOVE (6) EXISTING TMA'S
- REMOVE (1) EXISTING SERVICE LIGHT
- ADD (1) LED OUTDOOR SERVICE LIGHT
- ADD (1) HCS WINDER BOX
- REPLACE EXISTING GPS ANTENNA WITH NEW GPS ANTENNA
- REMOVE AND REPLACE (E) SIGN TO HOUSE NEW RADIOS
- INSTALL (3) RADIO 4460 IN A NEW SIGN AT BASE OF POLE
- INSTALL (2) RADIO 4480 IN A NEW SIGN AT BASE OF POLE
- INSTALL (2) RADIO 8863 IN A NEW SIGN AT BASE OF POLE
- INSTALL (6) TRIPLEXERS IN A NEW SIGN AT BASE OF POLE

SHEET INDEX:

SHEET NUMBER:	DESCRIPTION:
T-1	TITLE SHEET
T-2	ABBREVIATIONS, SYMBOLS, GENERAL NOTES & SPECIFICATIONS
EME-1	EME SIGNAGE REQUIREMENTS
A-1	SITE PLAN
A-2	ENLARGED SITE PLAN, EQUIPMENT LAYOUTS
A-3	ANTENNA SCHEDULE & ANTENNA LAYOUTS
A-4	ELEVATIONS
A-5	ELEVATIONS
D-1	DETAILS
D-2	DETAILS
D-3	DETAILS
D-4	DETAILS
E-1	SINGLE LINE DIAGRAM AND PANEL SCHEDULE
E-2	GROUNDING DETAILS
T-01	TITLE SHEET
MI-01	MODIFICATION INSPECTION CHECKLIST
N-01	PROJECT NOTES
S-01	TOWER ELEVATION & MODIFICATION SCHEDULE
S-02	MODIFICATION DETAILS & SECTIONS
S-03	ADDITIONAL DETAILS & SECTIONS

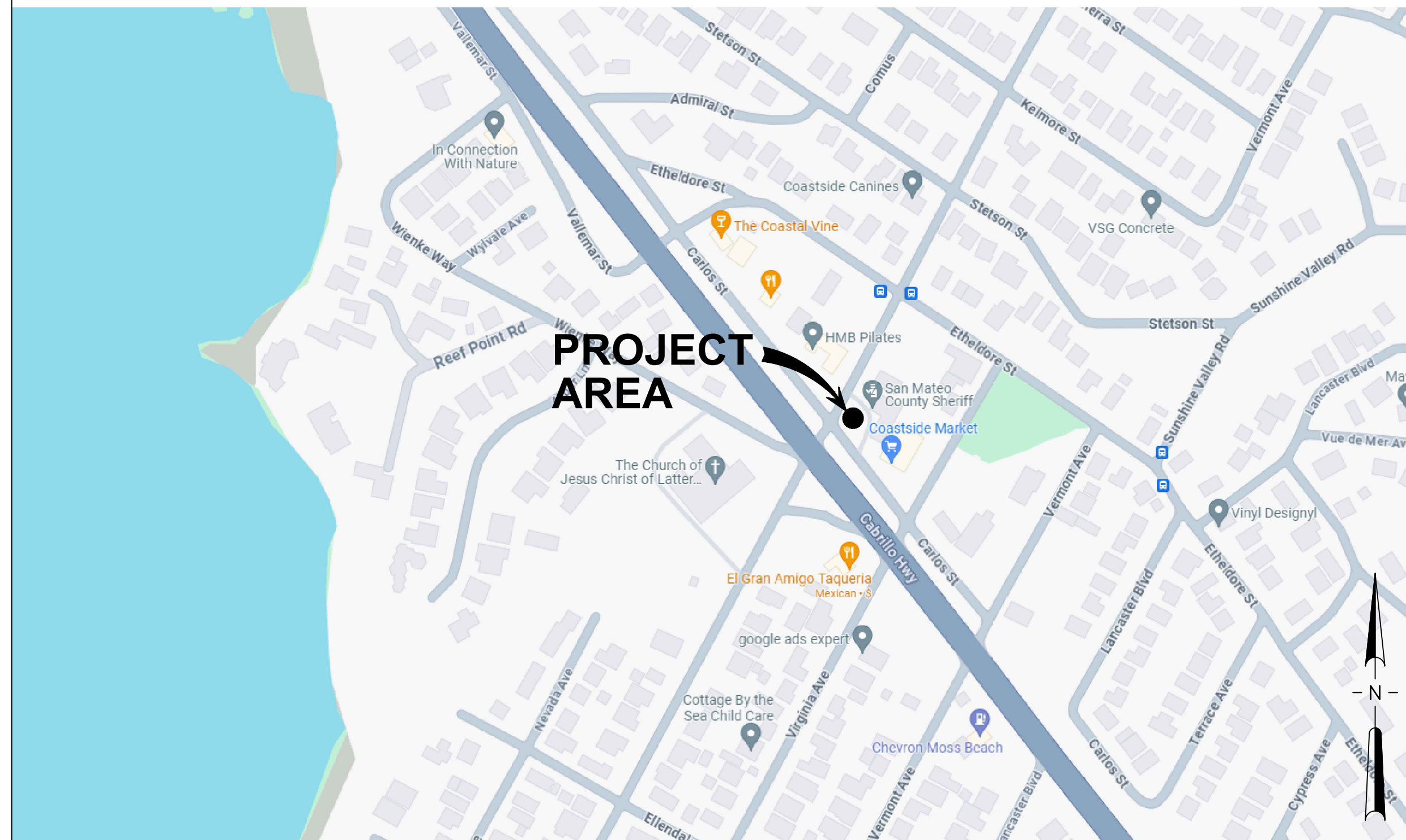
CONSULTING TEAM:

SAC/ZONING/PERMITTING:
BUTLER AMERICA
1511 E. ORANGETHORPE AVE., SUITE D
FULLERTON, CA 92831
CONTACT: DEREK TURNER
PROJECT MANAGER
PHONE: (415) 420-4922
EMAIL: dturner@butlertelecomllc.com

DESIGN ENGINEERING:
CONNELL DESIGN GROUP INC
22431 ANTONIO PKWY
SUITE B160-131
RANCHO SANTA MARGARITA, CA 92688
CONTACT: DAN CONNELL
PHONE: (949) 306-4644
EMAIL: dconnell@connelldesigngroup.com

TOWER ENGINEER
GPD GROUP, INC.
520 SOUTH MAIN STREET, SUITE 2531
AKRON, OH 44311
(330) 572-2100

VICINITY MAP:



DRIVING DIRECTIONS:

DIRECTIONS FROM THE LOCAL T-MOBILE OFFICE:

1. HEAD EAST TOWARD CONCORD AVE
2. TURN LEFT ONTO NEW DRIVE
3. SHARP LEFT ONTO CONCORD AVE
4. TURN RIGHT ONTO CONTRA COSTA BLVD
5. TURN RIGHT TO MERGE ONTO I-680 S
6. MERGE ONTO I-680 S
7. USE THE RIGHT 3 LANES TO TAKE EXIT 46 A FOR ROUTE 24 TOWARD OAKLAND/LAFAYETTE
8. CONTINUE ONTO CA-24 W
9. KEEP LEFT AT THE FORK TO STAY ON CA-24 W
10. USE THE RIGHT 2 LANES TO TAKE EXIT 2B TO MERGE ONTO I-580 W TOWARD SAN FRANCISCO
11. USE THE LEFT 3 LANES TO TAKE EXIT 19A TO MERGE ONTO I-80 W TOWARD SAN FRANCISCO
12. MERGE ONTO US-101 S
13. USE THE RIGHT 2 LANES TO TAKE EXIT 431 TO MERGE ONTO I-280 S TOWARD DALY CITY
14. KEEP RIGHT AT THE FORK TO CONTINUE ON CA-1 S, FOLLOW SIGNS FOR PACIFICA
15. TURN LEFT ONTO CALIFORNIA AVE
16. DESTINATION WILL BE ON THE RIGHT

APPLICABLE CODES

BUILDING CODE REFERENCE:

ALL WORK IS TO COMPLY WITH THE THE 2022 CALIFORNIA BUILDING STANDARDS CODE (CAL. CODE REGS., TITLE 24):

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA TITLE 24
- 2022 CALIFORNIA FIRE CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA MECHANICAL CODE
- TIA/EIA-222-H OR LATEST EDITION

T-Mobile®

PLANS PREPARED BY:

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dconnell@connelldesigngroup.com
949-306-4644

CONSULTING GROUP:

Butler America

1511 E. ORANGETHORPE, SUITE D
FULLERTON, CA 92831

NO.	DATE:	DESCRIPTION:	BY:
0	01/28/24	90% CD'S	LE
1	02/14/25	95% CD'S	JPC
2	03/06/25	95% CD'S	DC
3	03/25/25	95% CD'S	DC
4	10/03/25	100% CD'S	DC
5	12/22/25	100% CD'S	DC

SITE INFORMATION:

**MOSS BEACH
SHERIFF'S STATION**
SF71572M
500 CALIFORNIA AVE
MOSS BEACH, CA 94038

SEAL:



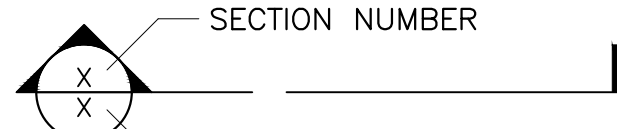
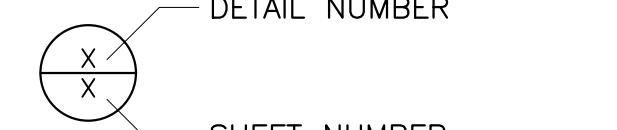
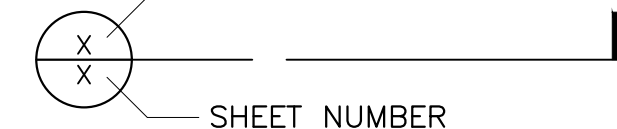
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SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

ABBREVIATIONS		GENERAL		SITE PREPARATION NOTES:		STRUCTURAL STEEL:	
AB	ANCHOR BOLT	LAM	LAMINATED	1. THE PREPARATION OF THE SITE FOR CONSTRUCTION SHALL INCLUDE THE REMOVAL OF ALL BROKEN CONCRETE, TREE TRUNKS AND ANY OTHER DEBRIS THAT WOULD BE DAMAGING TO THE FOOTINGS OF THE NEW STRUCTURE.		1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION, WHICH INCLUDES THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE CODE OF STANDARD PRACTICE AND THE AWS STRUCTURAL WELDING CODE. IDENTIFY AND MARK STEEL PER CBC 2203.	
AC	ASPHALTIC CONCRETE	LBS	POUNDS	2. THE CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.		2. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER/ARCHITECT PRIOR TO FABRICATION.	
A/C	AIR CONDITIONING	LT	LIGHT	3. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK.		3. GROUTING OF COLUMN BASE PLATES: BASE PLATES SHALL BE DRYPACKED OR GROUTED WITH NON-SHRINK, NON-FERROUS GROUT. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4,000 PSI AT 28 DAYS. ALL SURFACES SHALL BE PROPERLY CLEANED OF FOREIGN MATERIAL PRIOR TO GROUTING.	
ADJ	ADJUSTABLE	LA	LIGHTNING ARRESTOR	4. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDUM'S, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT DRAWINGS TO THE ARCHITECT/ENGINEER AT THE CONCLUSION OF THE PROJECT.		4. ALL EXPOSED WELDS SHALL BE FILLED AND GROUND SMOOTH WHERE METAL COULD COME IN CONTACT WITH THE PUBLIC.	
A.F.F.	ABOVE FINISH FLOOR	LNA	LOW NOISE AMPLIFIER	5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE FROM START OF PROJECT TO COMPLETION OF PROJECT.		5. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS OTHERWISE NOTED. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PRIOR CONSENT OF THIS ENGINEER.	
ARCH	ARCHITECTURAL	MFR	MANUFACTURER	6. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES.		6. WELDING: CONFORM TO AWS D1 1. WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH WABO REQUIREMENTS. USE E70 ELECTRODES OF TYPE REQUIRED FOR MATERIALS TO BE WELDED.	
APPROX	APPROXIMATELY	MAT	MATERIAL	7. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE 2022 CBC AND ALL OTHER GOVERNING CODES.		7. BOLTING: ASTM A307 BOLTS SHALL BE INSTALLED "SNUG TIGHT" PER AISC. SECTION RCSC 8(C) ASTM A325 BOLTS SHALL CONFORM TO THE RCSC SPECIFICATION SECTION 8 (D).	
A.G.L.	ABOVE GRADE LEVEL	MAX	MAXIMUM	8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR PROVIDE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.		8. GALVANIZING: ALL EXPOSED STEEL OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT-DIPPED GALVANIZED. APPLY FIELD TOUCH-UPS PER SPECIFICATIONS. PER ASTM A153.	
A.M.S.L.	ABOVE MEAN SEA LEVEL	MECH	MECHANICAL	9. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK.		9. MATERIALS: CONFORM TO	
BD	BOARD	MIN	MINIMUM	10. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR HIS REPRESENTATIVE. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.		ANCHOR BOLTS (HEADED): ASTM A307	
BLDG	BUILDING	MISC	MISCELLANEOUS	11. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE UNLESS OTHERWISE NOTED.		ANCHOR BOLTS (J-TYPE): ASTM A36	
BLKG	BLOCKING	ML	METAL LATH	12. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.		BARs & PLATES: ASTM A36	
BOT	BOTTOM	MO	MASONRY OPENING	13. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.		BOLTS: ASTM A36	
BSMT	BASEMENT	MS	MACHINE SCREW	14. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.		C-, M-, AND ANGLE SHAPES: ASTM A36	
BTS	BASE TRANSCIVER STATION	MTD	MOUNTED	15. WHERE SPECIFIED, MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR RECORDING THE RESULTS.		DEFORMED WELDED WIRE FABRIC: ASTM A497	
		MTL	METAL	16. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.		EPOXY & EXPANSION ANCHORS: HILTI OR EQUIVALENT	
C	COURSE(S)	(N)	NEW	17. ALL DEBRIS AND REFUGE IS TO BE REMOVED FROM THE PROJECT DAILY. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.		GROUT: EMBECO OR EQUIVALENT	
CEM	CEMENT	NIC	NOT IN CONTRACT	18. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR CLARIFICATIONS.		HIGH-STRENGTH BOLTS: ASTM A325SC OR (A325N)	
CL	CHAIN LINK	NO	NUMBER	19. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES TO PERFORM THE WORK. THE SUPERVISION OF THE WORK IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.		OTHER STRUCTURAL SHAPES: ASTM A36	
CLG	CLEARING	NTS	NOT TO SCALE	20. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF.		REINFORCING BARS: ASTM A615. GRADE 60, DEFORMED BARS	
CLR	CLEAR			21. THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSION, ELEVATION, ETC. NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTION OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. AND DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ ENGINEER.		SMOOTH WELDED WIRE FABRIC: ASTM A185	
COL	COLUMN	OA	OVERALL	22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE REMOVED AND RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.		STRUCTURAL WF SHAPES: ASTM A572-GR50	
CONC	CONCRETE	O.C.	ON CENTER	23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.		STEEL PIPE: ASTM A53, GRADE B	
CONST	CONSTRUCTION	OPNG	OPENING	24. NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF THE ARCHITECT/ ENGINEER. UNAUTHORIZED CHANGES RENDER THESE DRAWINGS VOID.		TIE WIRE: 16.5 GAGE OR HEAVIER, BLACK ANNEALED	
CONT	CONTINUOUS	OPP	OPPOSITE	25. ANY REFERENCE TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.		TUBE STEEL & PIPE COLUMNS: ASTM A500, GRADE B	
CORR	CORRIDOR			26. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK. 10. GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS, PRIOR TO STARTING WORK.		WELDING ELECTRODES: E70XX	
CO	CONDUIT ONLY					W - SHAPES: ASTM A992, GRADE 50	
DIA	DIAMETER	PARTN	PARTITION			STRUCTURAL STEEL NOTES:	
DBL	DOUBLE	PL	PLATE			1. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.	
DEPT	DEPARTMENT	PLAS	PLASTER			2. ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAPS, HANGER AND OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO. OR APPROVED EQUAL.	
DEMO	DEMOLITION	PLYWD	PLYWOOD			DISCLAIMER NOTE:	
DIM	DIMENSION	POC	POINT OF CONNECTION			THE DESIGN SHOWN IN THESE PLANS ASSUME THAT ALL EXISTING STRUCTURAL ITEMS ARE IN "LIKE NEW" CONDITION AND THAT THE STRUCTURES HAVE BEEN PROPERLY MAINTAINED BY THE OWNER, INCLUDING ALL TOWER AND BUILDING COMPONENTS.	
DN	DOWN	PROP	PROPERTY			INSTALLATION PROCEDURES AND RELATED LOADINGS ARE NOT WITHIN THE SCOPE OF THIS DESIGN/DRAWING. A CONTRACTOR EXPERIENCED IN SIMILAR WORK SHOULD PERFORM ALL INSTALLATION WORK. THE ENGINEERING SERVICES PROVIDED BY CDG ARE LIMITED TO THE DESIGN OF THE STRUCTURE WITH THE PROPOSED EXISTING LOADS. THESE DRAWINGS ARE CONSIDERED VOID IF THE LOADING MENTIONED IN THESE DRAWINGS IS CHANGED OR IS DIFFERENT AS INSTALLED. IT IS ASSUMED THAT THE EXISTING STRUCTURE IS PROPERLY MAINTAINED AND IS IN GOOD CONDITION FREE OF ANY DEFECTS. ALSO THE VERIFICATION OF ANCHORAGE, PLATE AND BOLTS ARE NOT CHECKED AS COMPLETE ENGINEERING. DATA IN NOT AVAILABLE FOR VERIFICATION. THE SCOPE OF THESE DRAWINGS DOES NOT INCLUDE EXISTING CONNECTIONS, EXCEPT AS NOTED. ALL EXISTING & PROPOSED ANTENNA/STRUCTURE DATA WAS PROVIDED BY OWNER. CDG IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY EXISTING DATA.	
DR	DOOR	R	RISER			THESE DRAWINGS GENERATED BY CDG ARE FOR THE SCOPE GIVEN BY CDG, INC. AND THEIR CLIENT ONLY. WE DISCLAIM ANY RESPONSIBILITY OF THIS DRAWING BEING USED BY ANY PARTY OTHER THAN OUR CLIENT. CDG DOES NOT MAKE ANY WARRANTIES, EXPRESSED OR IMPLIED IN CONNECTION WITH THIS ENGINEERING DRAWING AND DISCLAIMS ANY LIABILITY ARISING FROM DEFICIENCIES OR ANY EXISTING CONDITIONS OF THE ORIGINAL STRUCTURE. CDG WILL NOT BE RESPONSIBLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES SUSTAINED BY ANY PARTIES AS A RESULT OF ANY DATA OR CONCLUSIONS INCLUDED IN THIS DRAWING. THE MAXIMUM LIABILITY OF CDG PURSUANT TO THIS DRAWING SHALL BE LIMITED TO THE CONSULTING FEE RECEIVED FOR THE PREPARATION OF THE REPORT. ALL SERVICES ARE PERFORMED, RESULTS OBTAINED AND RECOMMENDATIONS MADE ARE IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRINCIPLES AND PRACTICES. CDG IS NOT RESPONSIBLE FOR THE CONCLUSIONS, OPINIONS AND RECOMMENDATIONS MADE BY OTHERS BASED ON THE INFORMATION OR DATA PROVIDED BY US.	
DTL	DETAIL	RD	ROOF DRAIN				
DWG	DRAWING	RM	ROOM				
(E)	EXISTING	RMS	ROOMS				
EA	EACH	RO	ROUGH OPENING				
ELEC	ELECTRIC	SC	SOLID CORE				
ELEV	ELEVATION	SCHED	SCHEDULE				
EQUIP	EQUIPMENT	SECT	SECTION				
EXP	EXPANSION	SHT	SHEET				
EXT	EXTERIOR	SIM	SIMILAR				
FA	FIRE ALARM	SMT	SPECIFICATIONS				
FB	FLAT BAR	SS	STAINLESS STEEL				
FF	FINISH FLOOR	STL	STEEL				
FH	FLAT HEAD	STOR	STORAGE				
FIN	FINISH(ED)	STRUCT	STRUCTURAL				
FLR	FLOOR	SUSP	SUSPENDED				
FOS	FACE OF STUDS	SW	SWITCH				
FS	FINISH SURFACE	SWBO	SWITCHBOARD				
FT	FOOT, FEET	THK	THICK				
FTG	FOOTING	TI	TENANT IMPROVEMENT				
FW	FINISH WALL	TMA	TOWER MOUNTED AMPLIFIER				
F.G.	FINISH GRADE	TOS	TOP OF SURFACE				
FUT	FUTURE	TS	TUBE STEEL				
		TYP	TYPICAL				
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE				
GALV	GALVANIZED						
GL	GLASS	VCT	VINYL COMPOSITION				
GR	GRADE		TILE				
GYP	GYPSUM		VERTICAL				
GFCI	GROUND FAULT CIRCUIT INTERRUPT	VERT	VERIFY IN FIELD				
GND	GROUND	V.I.F.	VERTICAL GRAIN				
		VG					
HC	HOLLOW CORE	W/	WITH				
HDW	HARDWARE	WOOD	WOOD				
HTR	HEATER	WR	WATER RESISTANT				
HM	HOLLOW METAL	WT	WEIGHT				
HORIZ	HORIZONTAL						
HR	HOUR	XFMR	TRANSFORMER				
HT	HEIGHT		AT				
HV	HIGH VOLTAGE	Ⓢ	CHANNEL				
		Ⓛ	CENTERLINE				
ID	INSIDE DIMENSION	Ⓢ	ANGLE				
INS	INSULATION	Ⓢ	PROPERTY LINE				
INT	INTERIOR						
JT	JOINT						
SYMBOLS:				ACCESSIBILITY NOTE:			
				THE TELECOMMUNICATIONS EQUIPMENT SPACE SHOWN HEREON THESE PLANS IS NOT CUSTOMARILY OCCUPIED. WORK TO BE PERFORMED IN THIS FACILITY CANNOT REASONABLY BE PERFORMED BY PERSONS WITH A SEVERE IMPAIRMENT: MOBILITY, SIGHT, AND/OR HEARING. THEREFORE, PER 2022 CALIFORNIA BUILDING CODE SECTION 1103B.1 EXCEPTING 1, THIS FACILITY SHALL BE EXEMPTED FROM ALL TITLE 24 ACCESS REQUIREMENTS.			
				BID WALK NOTES:			
				1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONSTRUCTION CONDITIONS BEFORE SUBMITTAL OF FINAL BIDS, START OF CONSTRUCTION AND/OR FABRICATION. AFTER THOROUGHLY EXAMINING THE PLANS AND EXISTING SITE CONDITIONS NOTIFY THE ENGINEER IN WRITING OF ANY OMISSIONS/DISCREPANCIES, OR ANY ITEMS NEEDING CLARIFICATION PRIOR TO SUBMITTING FINAL BIDS.			
				2. IF THE ENGINEER IS NOT NOTIFIED OF ANY OMISSIONS/DISCREPANCIES OR CLARIFICATIONS IN WRITING AS DESCRIBED IN #1 IT WILL BE CONFIRMED THAT THE CONTRACTOR HAS CONSIDERED ALL ITEMS THAT WILL AFFECT THE COST OF THE CONSTRUCTION OF THE SITE UNDER THE MOST STRINGENT CONDITIONS. THE CONTRACTOR WILL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION AFTER FINAL BIDS HAVE BEEN SUBMITTED AND AWARDED FROM CARRIER.			
							
							
							
				PROPERTY LINE			
				FENCING			
				ELECTRICAL SERVICE			
				TELCO SERVICE			
ABBREVIATIONS & SYMBOLS				GENERAL NOTES & SPECIFICATIONS			
SCALE: 1				SCALE: 2			
N.T.S.				N.T.S.			
				T-2			

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SITE INFORMATION:

MOSS BEACH
SHERIFF'S STATION

SF71572M

500 CALIFORNIA AVE
MOSS BEACH, CA 94038

SEAL:



DATE STAMPED: 12/22/2025

SHEET TITLE:

ABBREVIATIONS,
SYMBOLS, GENERAL
NOTES &
SPECIFICATIONS

SHEET NUMBER:

T-2

NOTE:
EME INFORMATION SHOWN FOR
REFERENCE ONLY. REFER TO RF-EME
COMPLIANCE REPORT BY GTA DATED
MARCH 21, 2025 FOR ADDITIONAL
INFORMATION AND REQUIREMENTS

Site ID: SF71572M

6.0 Safety Recommendations

Occupational Safety and Health Administration (OSHA) Requirements

OSHA requires that those in the Occupational classification must complete training in RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
- Utilization of good equipment - Enact control of hazard areas - Limit exposures - Employ medical surveillance and accident response	- Employ Lockout/Tag out - Utilize personal alarms & protective clothing - Prevent access to hazardous locations - Develop or operate an administrative control program

Table 5

RF Signage and Barriers

All RF signs should be obeyed by at all times.



Figure 3

If there are workers in an area with a sign that they do not understand, they can call the NOC Number at 877-611-5868 for guidance.



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Site ID: SF71572M

8.0 Compliance Measures

The site needs the following mitigation and/or compliance plan.

The compliance determination is based on theoretical modeling, RF signage placement recommendations, proposed antenna inventory and the level of restricted access to the antennas at the site. At the time of our analysis, T-Mobile will be compliant with the FCC rules and regulations, as described in OET Bulletin 65 upon implementation of below remediation and/or compliance recommendations.

On flag pole :

Recommendations for Site Compliance	Signages on Access Points, Sectors & Equipment									Enclosing Sectors		
	Guideline	NOC INFO	NOTICE	CAUTION	WARNING	NOTICE	CAUTION	WARNING	OC Length	GP Length	Striping	
Access Point(s)												
Sector Alpha				✓	1							Striping
Sector Beta				✓	1							Striping
Sector Gamma				✓	1							Striping
Equipment/BTS	✓	1	✓	1	✓							Striping
Total Signage	1	1	1	3	0	0	0	0	0 sq. ft.	0 sq. ft.	Total = 0 sq. ft.	

Table 6

CAUTION: - The table above represents EVERY compliance item that MUST be implemented by the carrier at the site location; please see the Site Plan shown in diagram 1.

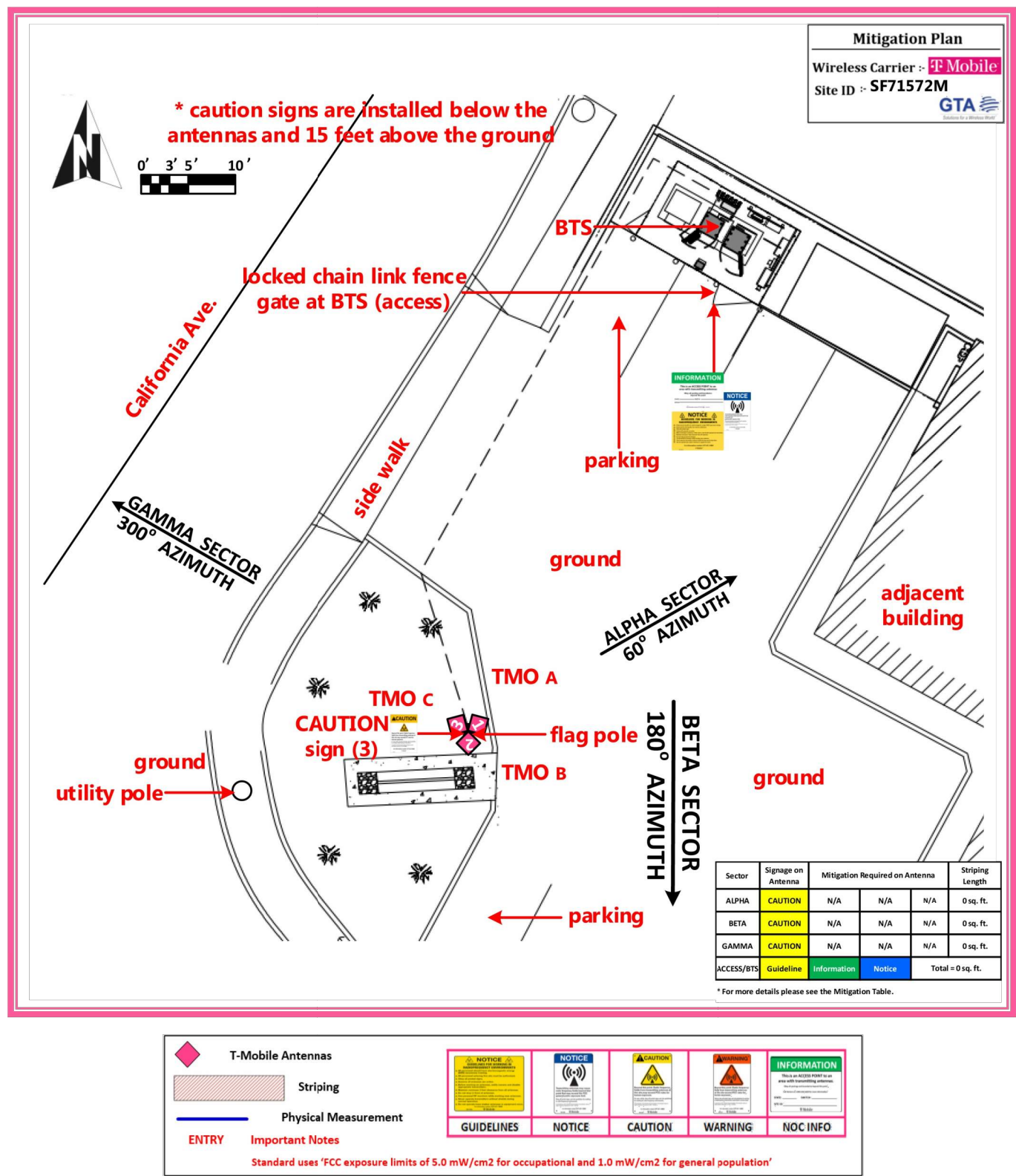
It is recommended to have periodic inspections of the components that are involved in radiation of RF energy. Periodic Electromagnetic Emission (EME) measurement should be conducted to reevaluate the RF radiation level at this site.

GTA recommends that T-Mobile and the authorized personal at the site take additional measures to ensure that persons accessing the roof/structure (for example, roofers or other maintenance workers) are informed of areas where RF levels exceed the FCC general population limit and made aware that these areas must be avoided to maintain compliance with FCC requirements. This is important especially when the placement of barriers, striping, taping or any other positive access control (areas of the roof that exceed the RF levels of general population limit) is not possible due to the physical construction or constraints or safety measures surrounding the antennas or on the roof/structure like sloped roof, tiled roof, chimney, steeples, cupolas, hilly terrain, etc.

It is further recommended to distribute this report to anyone accessing the roof/structure and ensuring the confirmation that it has been read and understood.

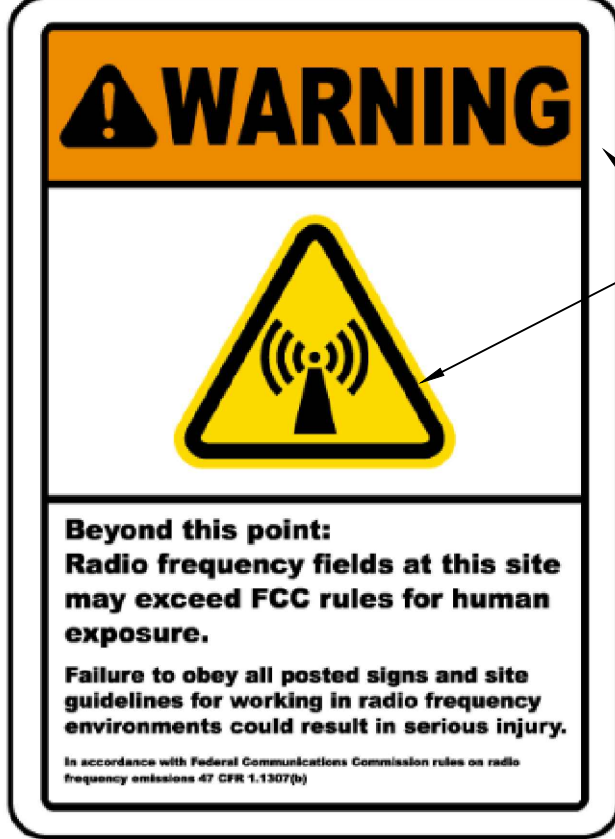
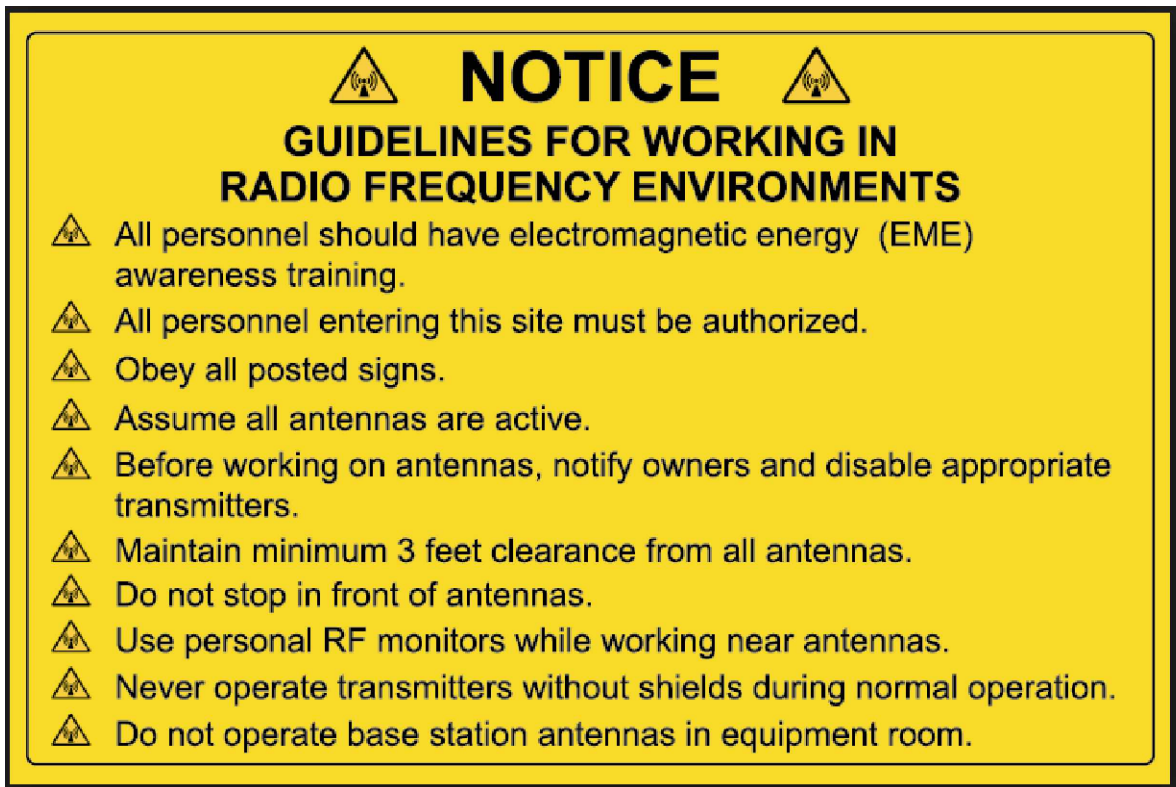
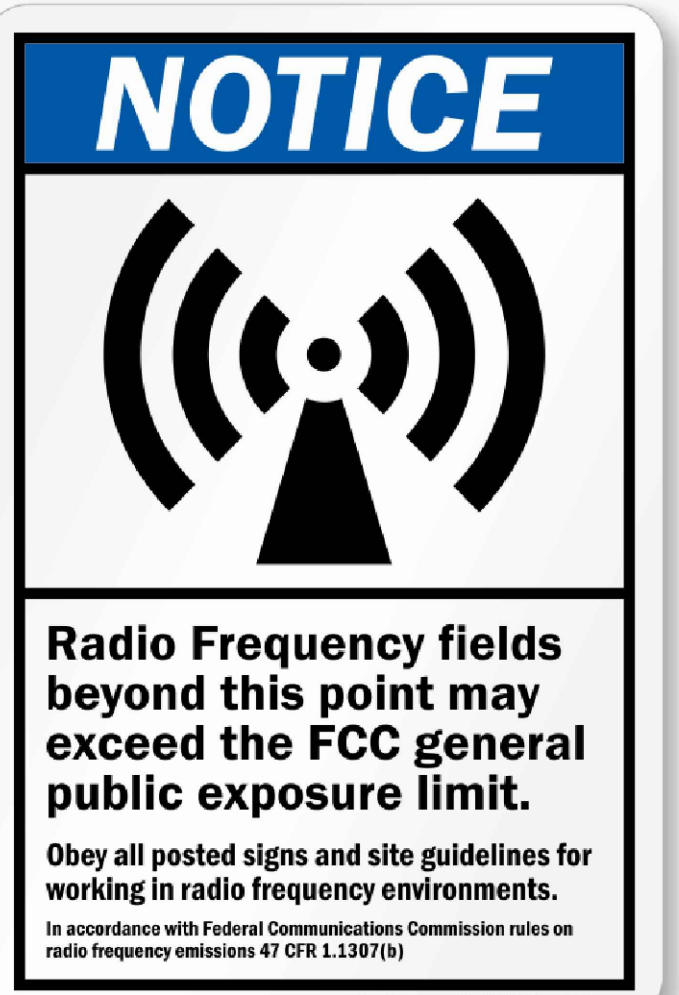
Site ID: SF71572M

Diagram 1: Site Scale Plan



EME REPORT PAGES

1



WARNING AND
RF AREAS ON
SIGN SHALL
BE RED IN
COLOR



EMERGENCY CONTACT SIGN

6

SIGN DETAIL

5

SIGN DETAIL

4

SIGN DETAIL

3

SIGN DETAIL

2

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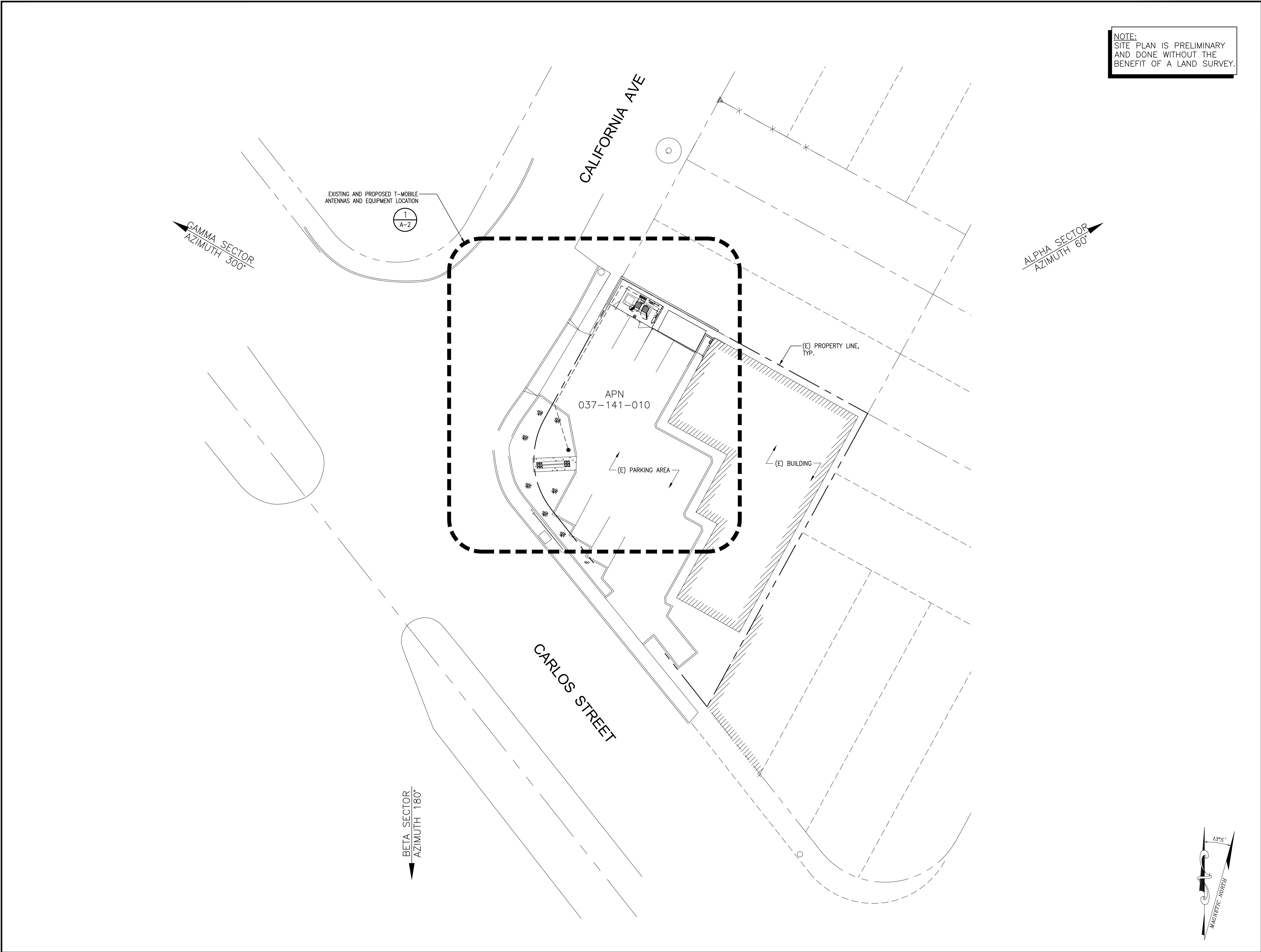
DATE STAMPED: 12/22/2025

SHEET TITLE:

EME SIGNAGE
REQUIREMENTS

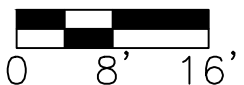
SHEET NUMBER:

EME-1



SITE PLAN

SCALE:
1/16"=1'-0"



1

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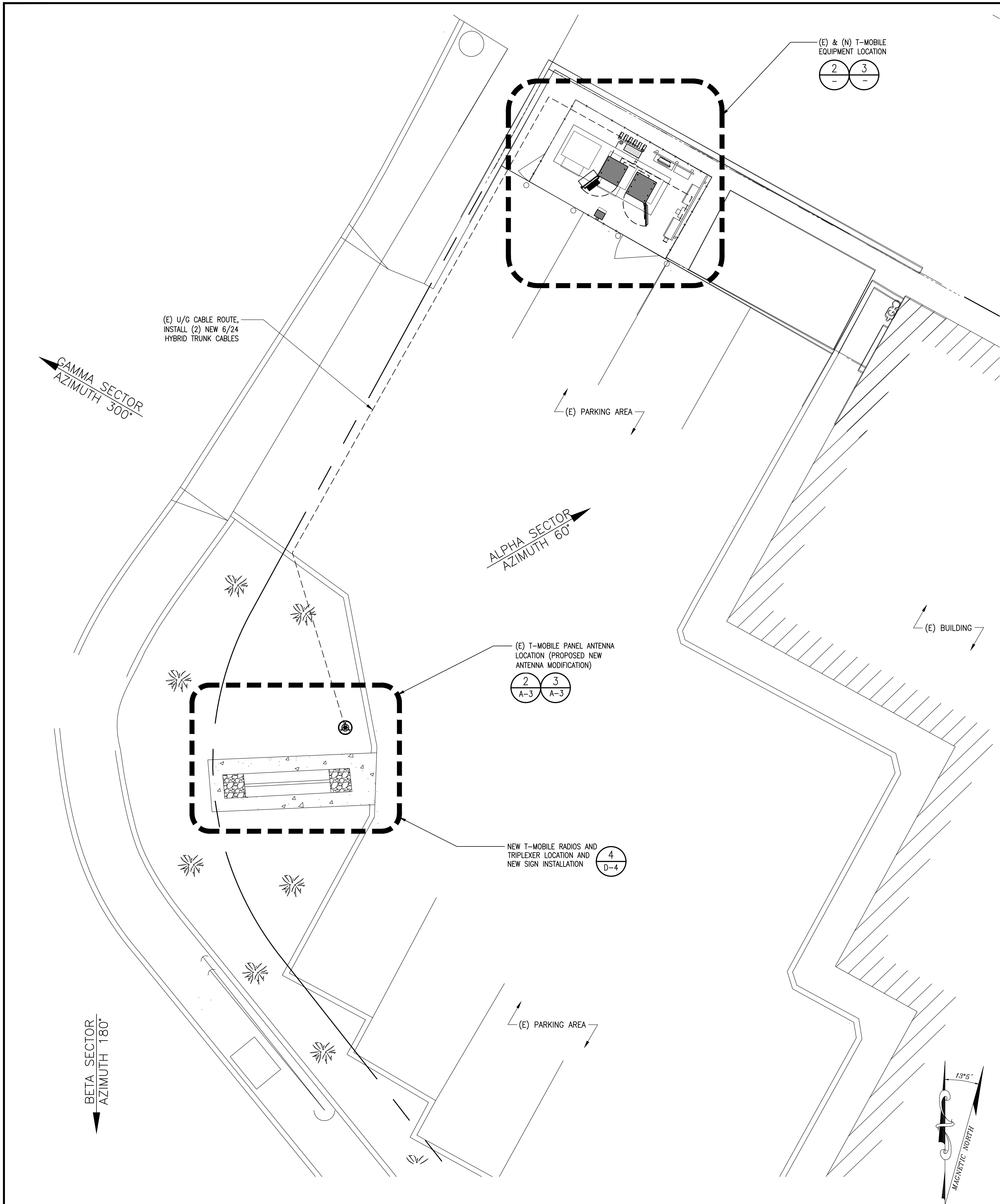
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SITE PLAN

SHEET NUMBER:

A-1

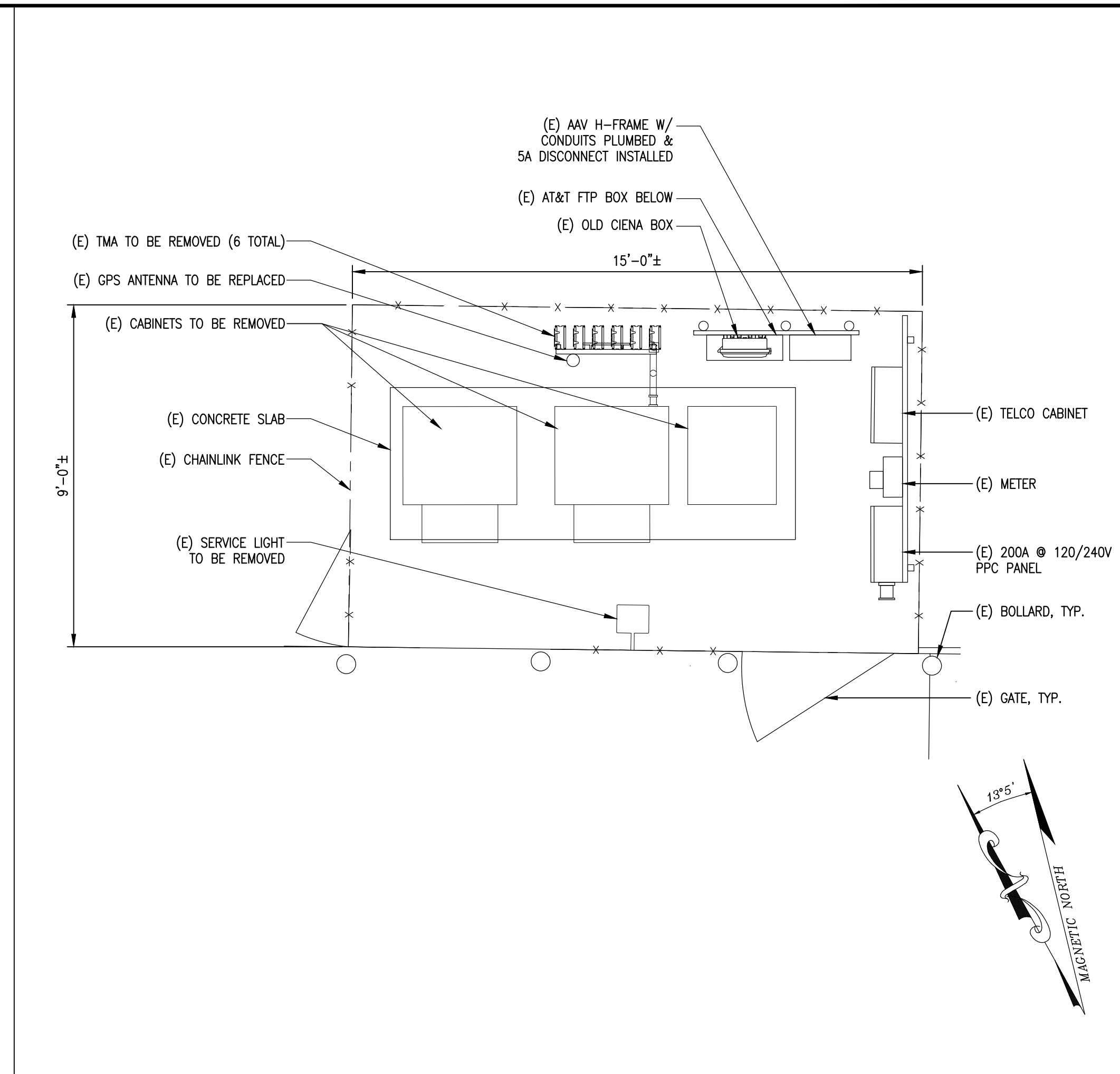


ENLARGED SITE PLAN

SCALE:
3/16"=1'-0"

0 2' 4' 6'

1

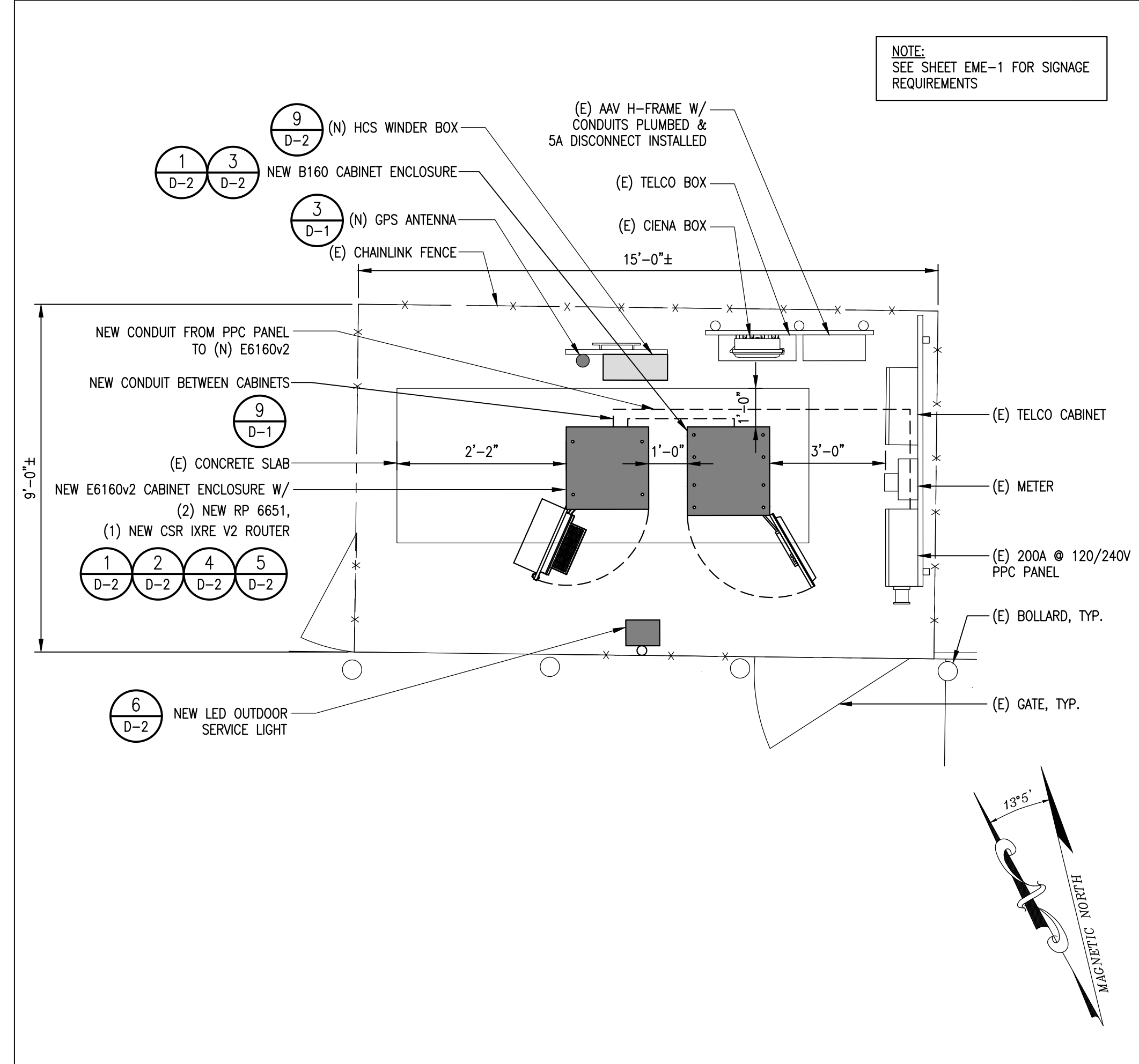


(E) EQUIPMENT LAYOUT

SCALE:
3/8"=1'-0"

0 1' 2' 3'

2



NEW EQUIPMENT LAYOUT

SCALE:
3/8"=1'-0"

0 1' 2' 3'

3

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SEAL:

DATE STAMPED: 12/22/2025

SHEET TITLE:

**ENLARGED SITE PLAN,
EQUIPMENT LAYOUTS**

SHEET NUMBER:

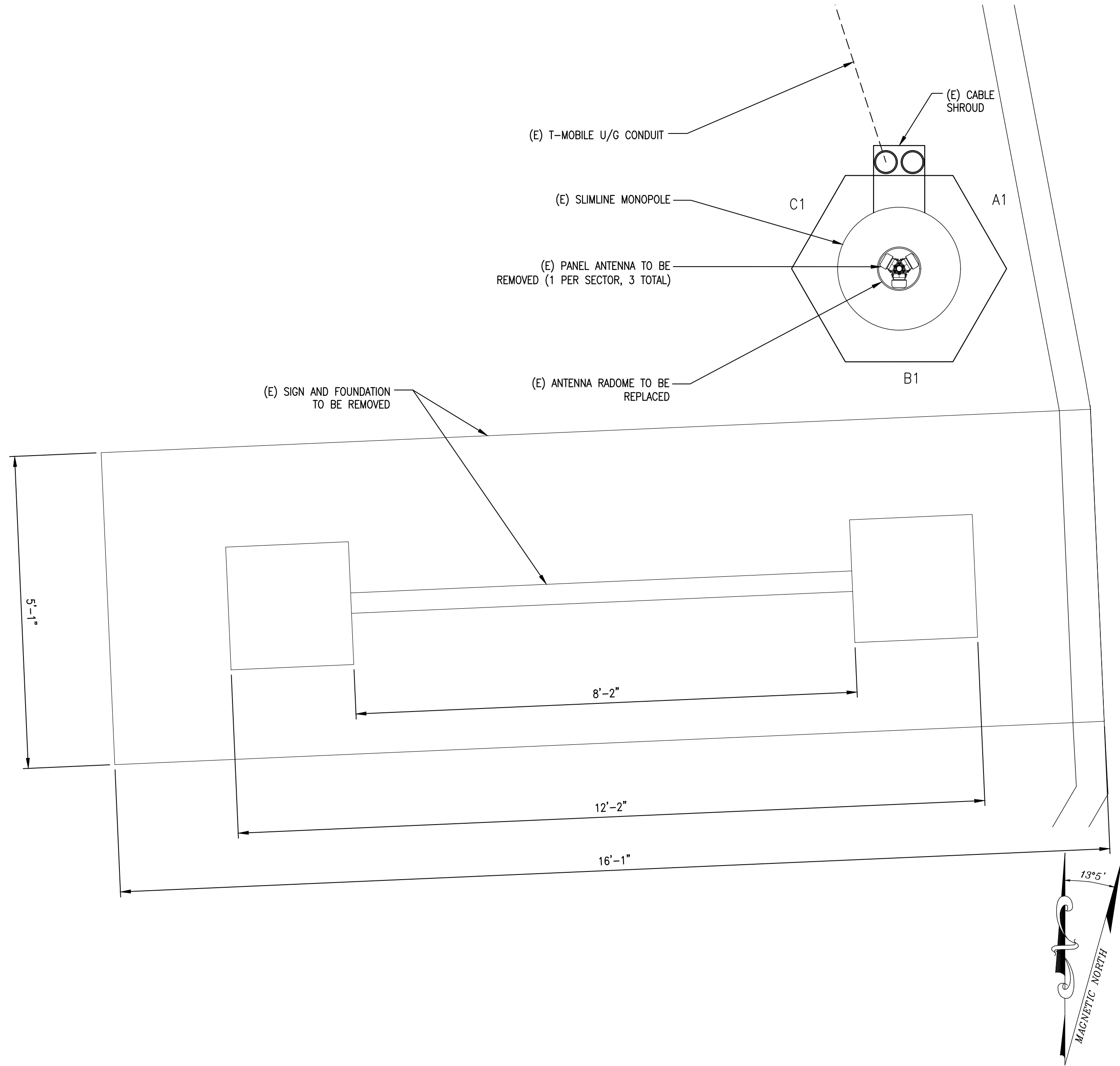
A-2

EXISTING ANTENNA SCHEDULE										
SECTOR		TECHNOLOGY	ANTENNA			ANTENNA AZIMUTH	RAD CENTER OF ANTENNA	RADIO	CABLE TYPE	CABLE LENGTH
			MODEL	SIZE	WEIGHT LBS					
SECTOR "A"	A1	L2100/L700 G1900/U1900	—	48"	—	60°	36'—0"	—	(2) 7/8" COAX	190'
	B1	L2100/L700 G1900/U1900	—	48"	—	180°	36'—0"	—	(2) 7/8" COAX	190'
SECTOR "C"	C1	L2100/L700 G1900/U1900	—	48"	—	300°	36'—0"	—	(2) 7/8" COAX	190'

(E) ANTENNA SCHEDULE

PROPOSED ANTENNA SCHEDULE									
SECTOR		TECHNOLOGY	ANTENNA			ANTENNA AZIMUTH	RAD CENTER OF ANTENNA	TMA'S AT ANTENNAS RADIOS AT GRADE TRIPLEXERS AT GRADE	CABLE TYPE / LENGTH
			MODEL	SIZE	WEIGHT LBS				
TRI SECTOR		L700/N600 L1900/L2100 N1900/N2500	AWT2-3926	60.7"	212.3	60° 180° 300°	35'-6"	(6) TMA'S T19G21BL26-21 (3) RADIO 4460 B25+B66 (2) RADIO 4480 B71+B85 (2) RADIO 8863 B41 (6) TRIPLEXERS TBC0038F1V94-2	(2) 6/24 HYBRID CABLES TO RADIOS (12) 1/2" COAX CABLES TO TMA'S (18) JUMPERS TO ANTENNA

(N) ANTENNA SCHEDULE

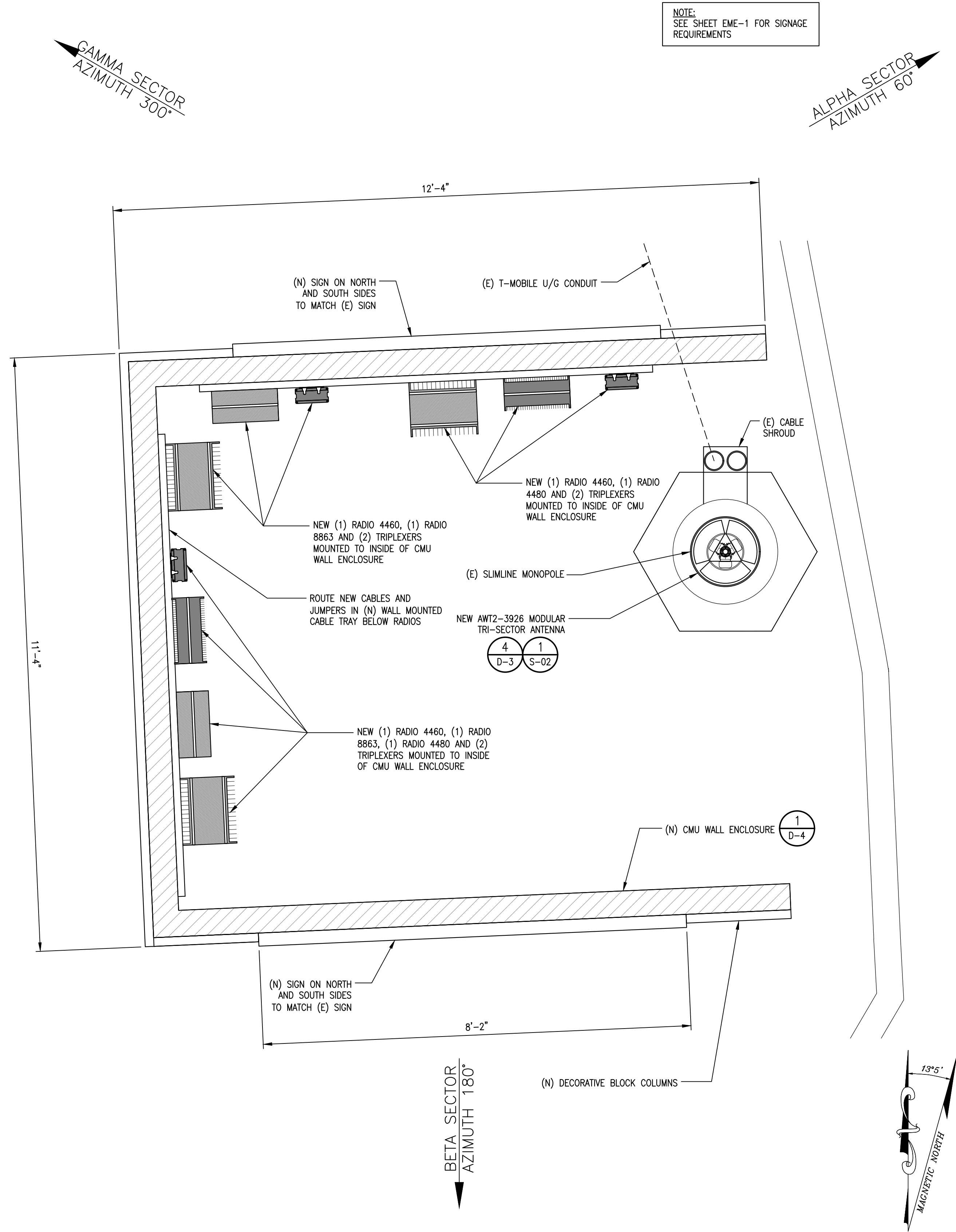


(E) ANTENNA LAYOUT

SCALE:
1"=1'-0"

0 6" 1'

2



(P) ANTENNA AND RADIO LAYOUT

SCALE:
3/4"=1'-0"

0 6" 1'

3

T-Mobile

PLANS PREPARED BY:

CDG

22431 ANTONIO PKWY
SUITE B160-131
RANCHO SANTA MARGARITA CA 92688
dconnell@connelldesigngroup.com
949-306-4644

CONSULTING GROUP:

Butler
America

1511 E. ORANGETHORPE, SUITE D
FULLERTON, CA 92831

NO.	DATE	DESCRIPTION	BY:
0	01/28/24	90% CD'S	LE
1	02/14/25	95% CD'S	JPC
2	03/06/25	95% CD'S	DC
3	03/25/25	95% CD'S	DC
4	10/03/25	100% CD'S	DC
5	12/22/25	100% CD'S	DC

SITE INFORMATION:

MOSS BEACH
SHERIFF'S STATION

SF71572M

500 CALIFORNIA AVE
MOSS BEACH, CA 94038

SEAL:



DATE STAMPED: 12/22/2025

SHEET TITLE:

ANTENNA SCHEDULE &
ANTENNA LAYOUTS

SHEET NUMBER:

A-3

T-Mobile

PLANS PREPARED BY:

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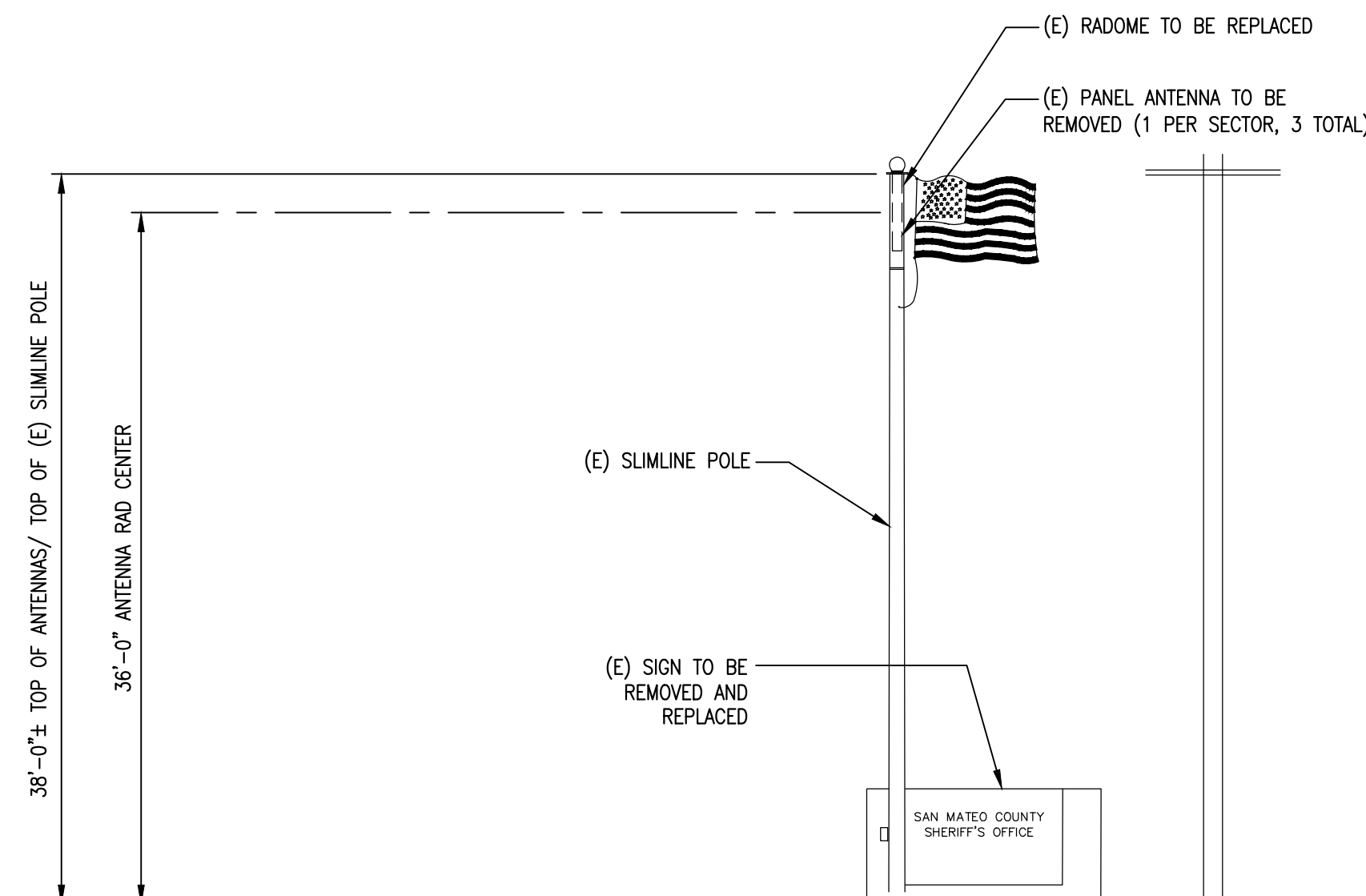
DATE STAMPED: 12/22/2025

SHEET TITLE:

ARCHITECTURAL
ELEVATIONS

SHEET NUMBER:

A-4

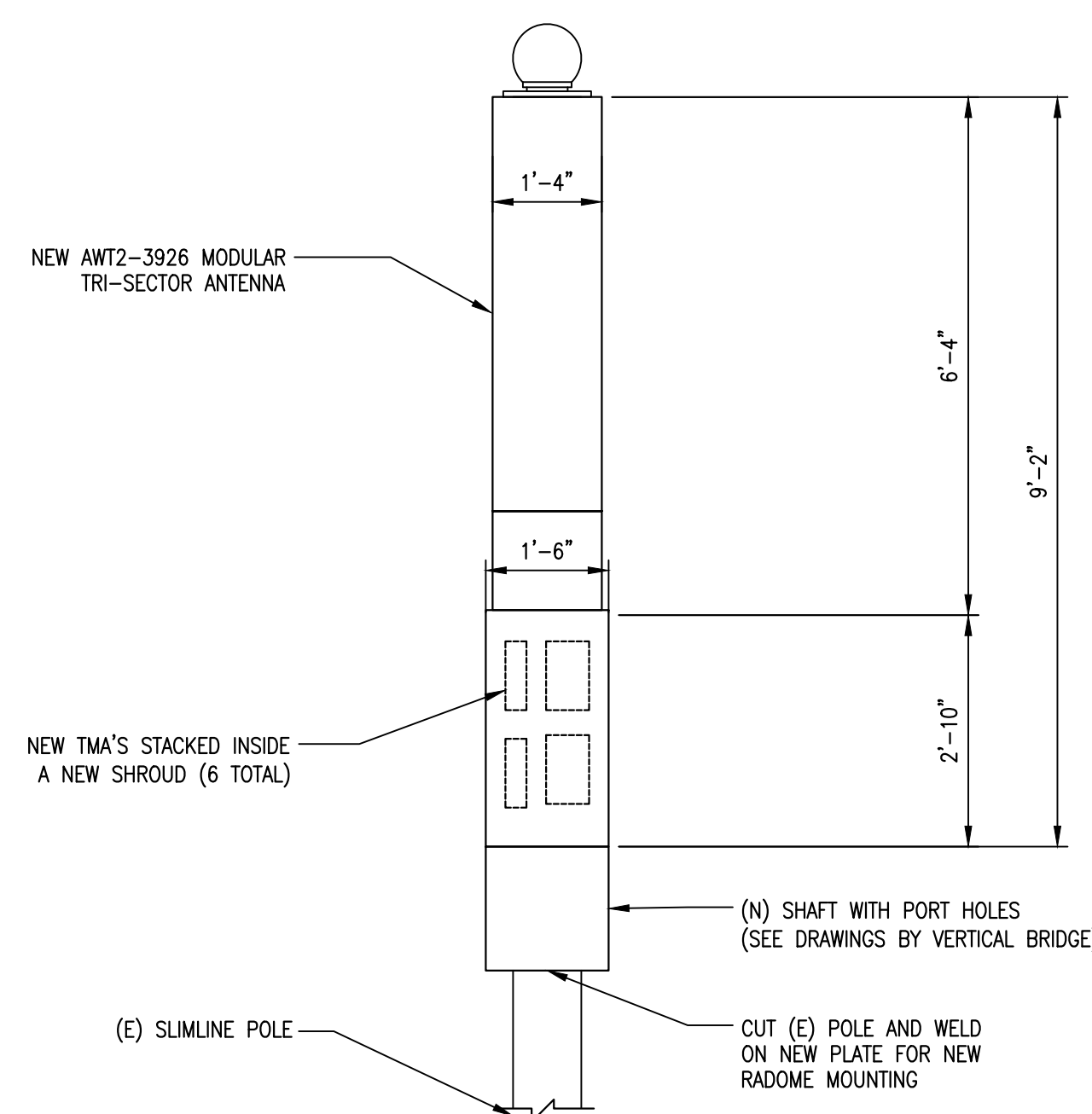


EXISTING NORTH ELEVATION

SCALE:
1/8"=1'-0"

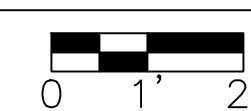


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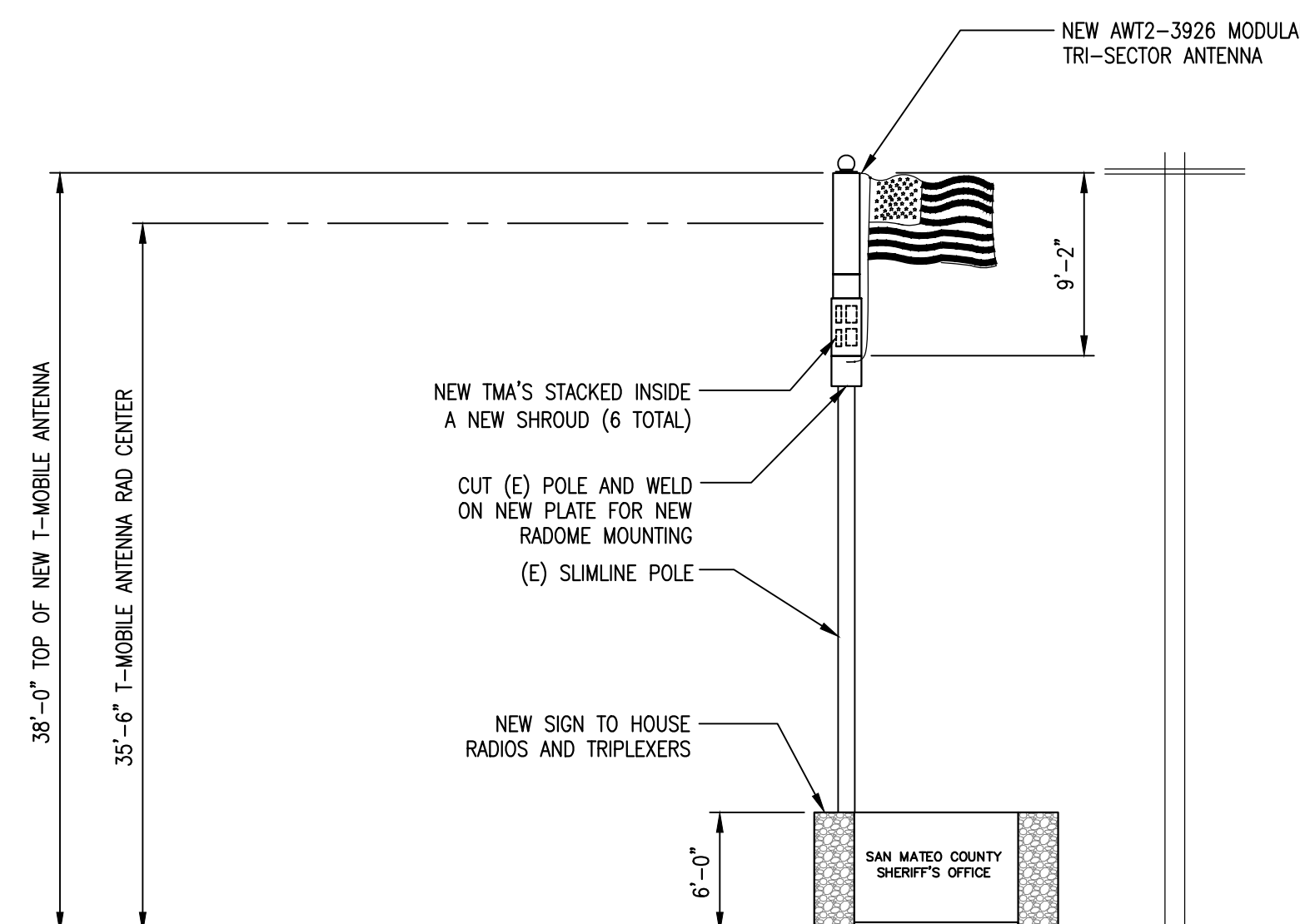


ANTENNA / TMA SHROUD ELEVATION

SCALE:
1/2"=1'-0"



3

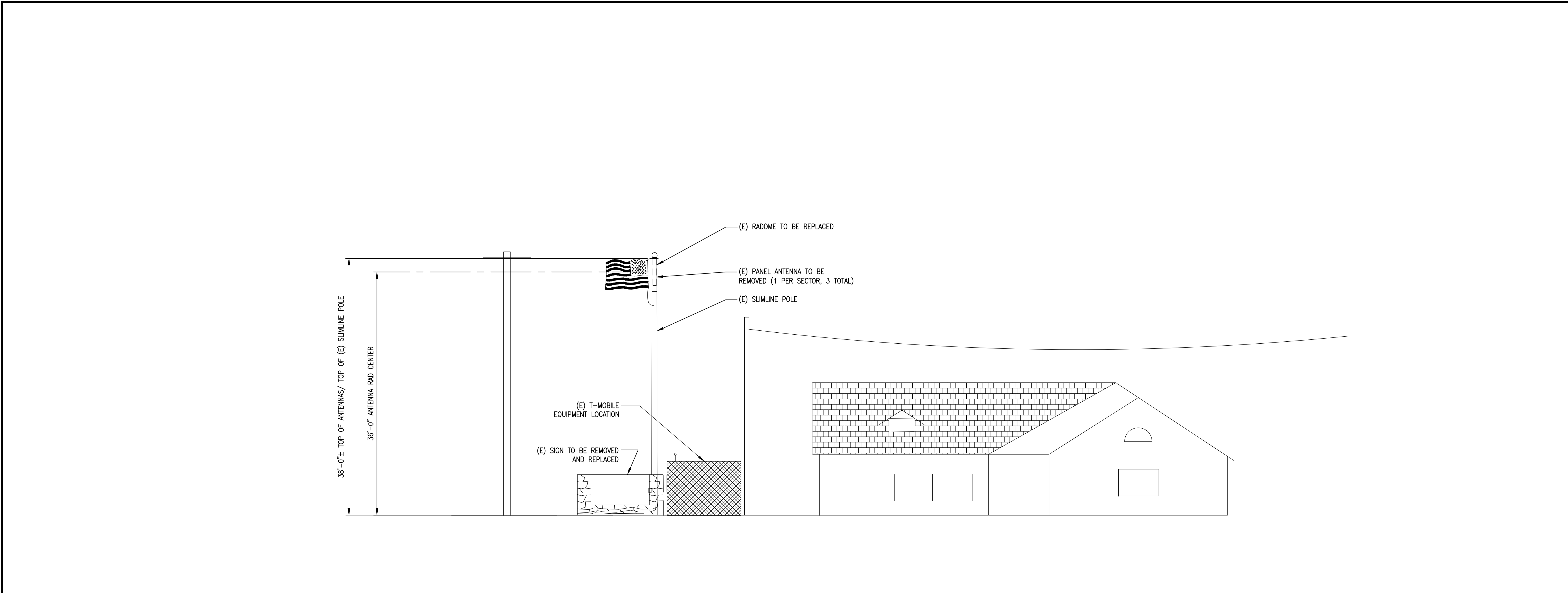


NEW NORTH ELEVATION

SCALE:
1/8"=1'-0"



2

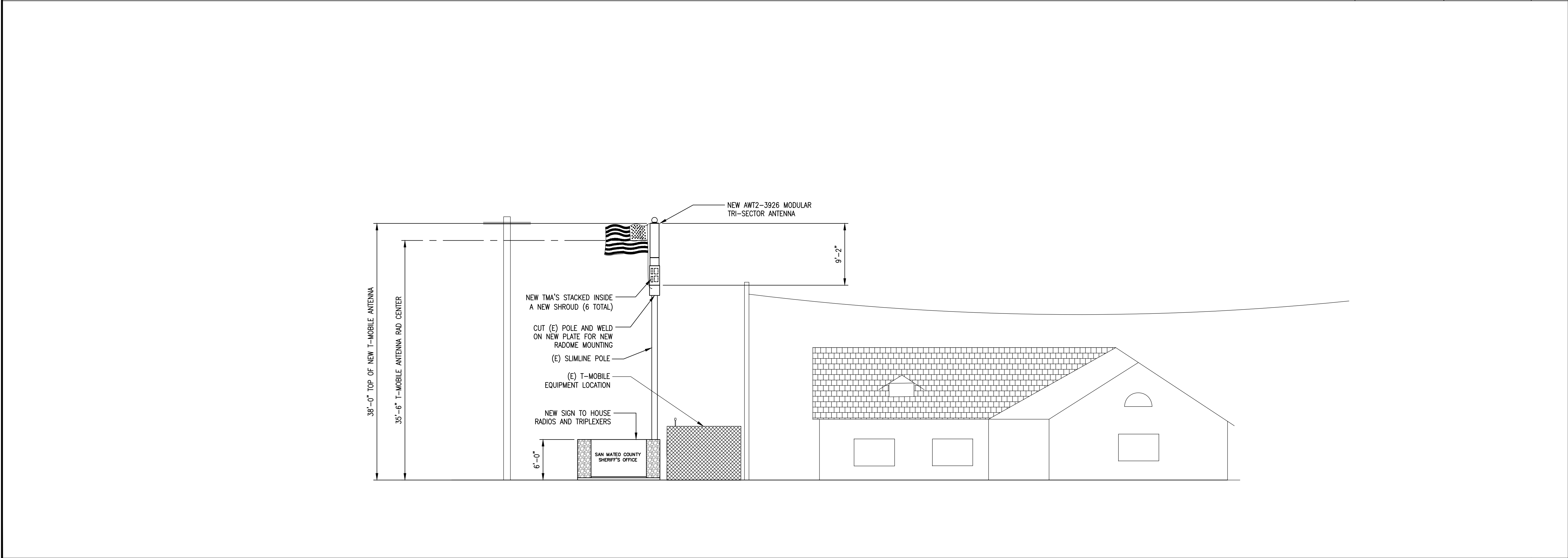


EXISTING SOUTH ELEVATION

SCALE:
1/8"=1'-0"

0 4' 8'

1



NEW SOUTH ELEVATION

SCALE:
1/8"=1'-0"

0 4' 8'

2

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DATE STAMPED: 12/22/2025

SHEET TITLE:

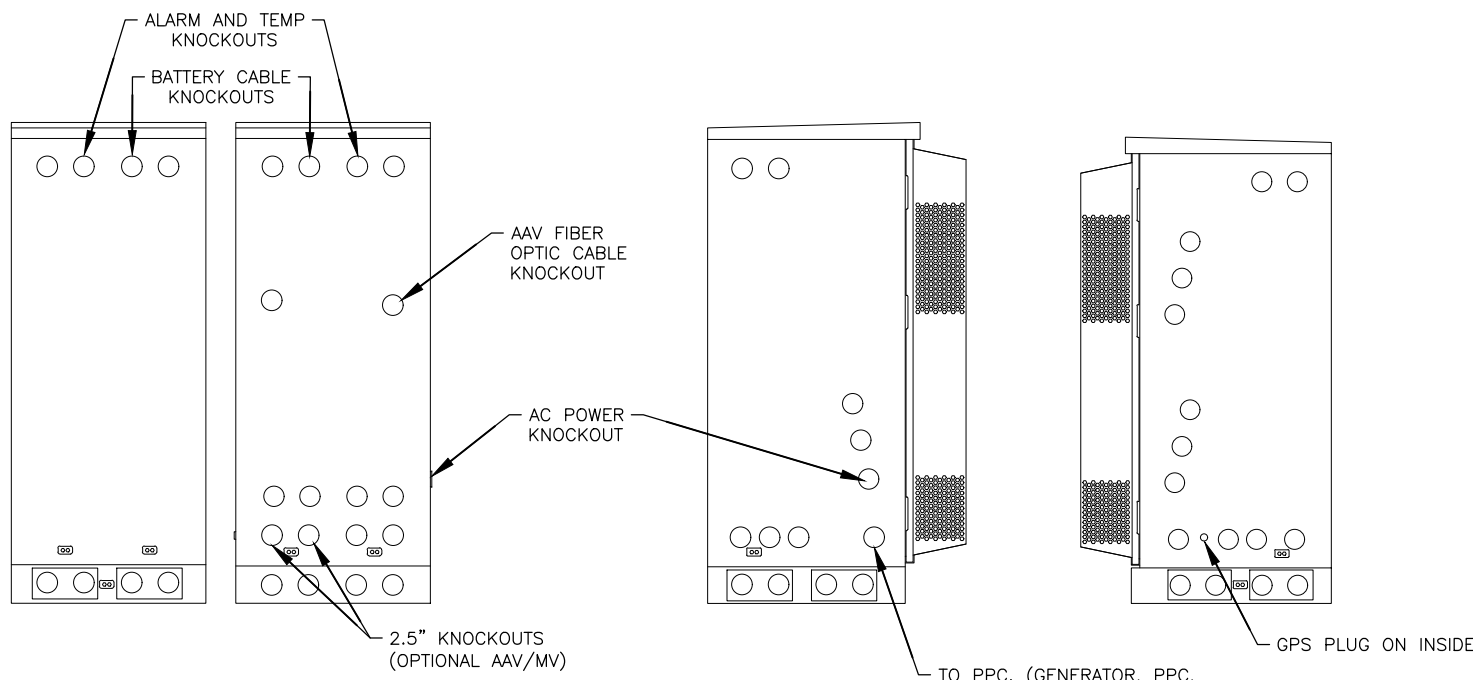
ARCHITECTURAL
ELEVATIONS

SHEET NUMBER:

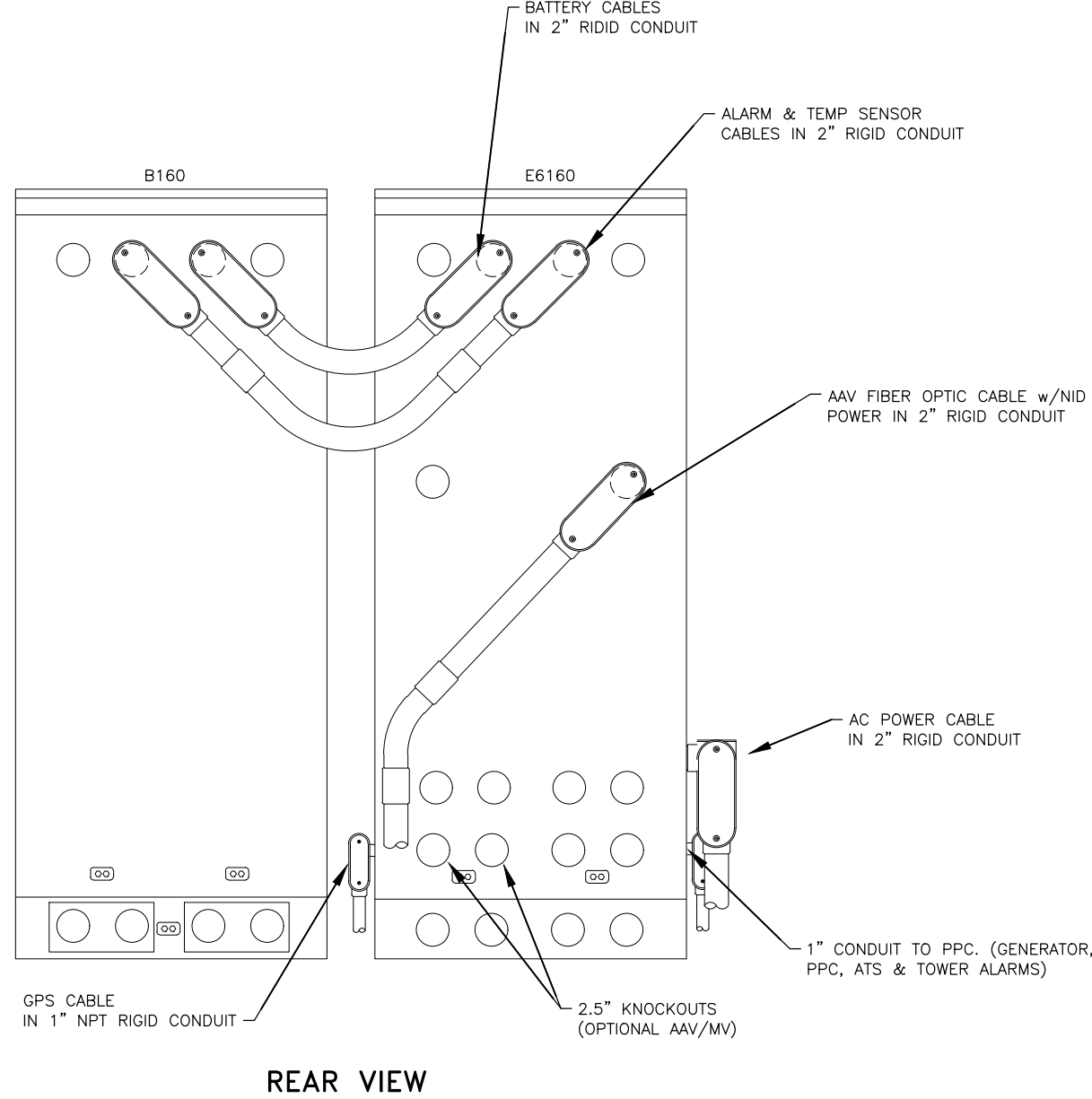
A-5

NOTE:

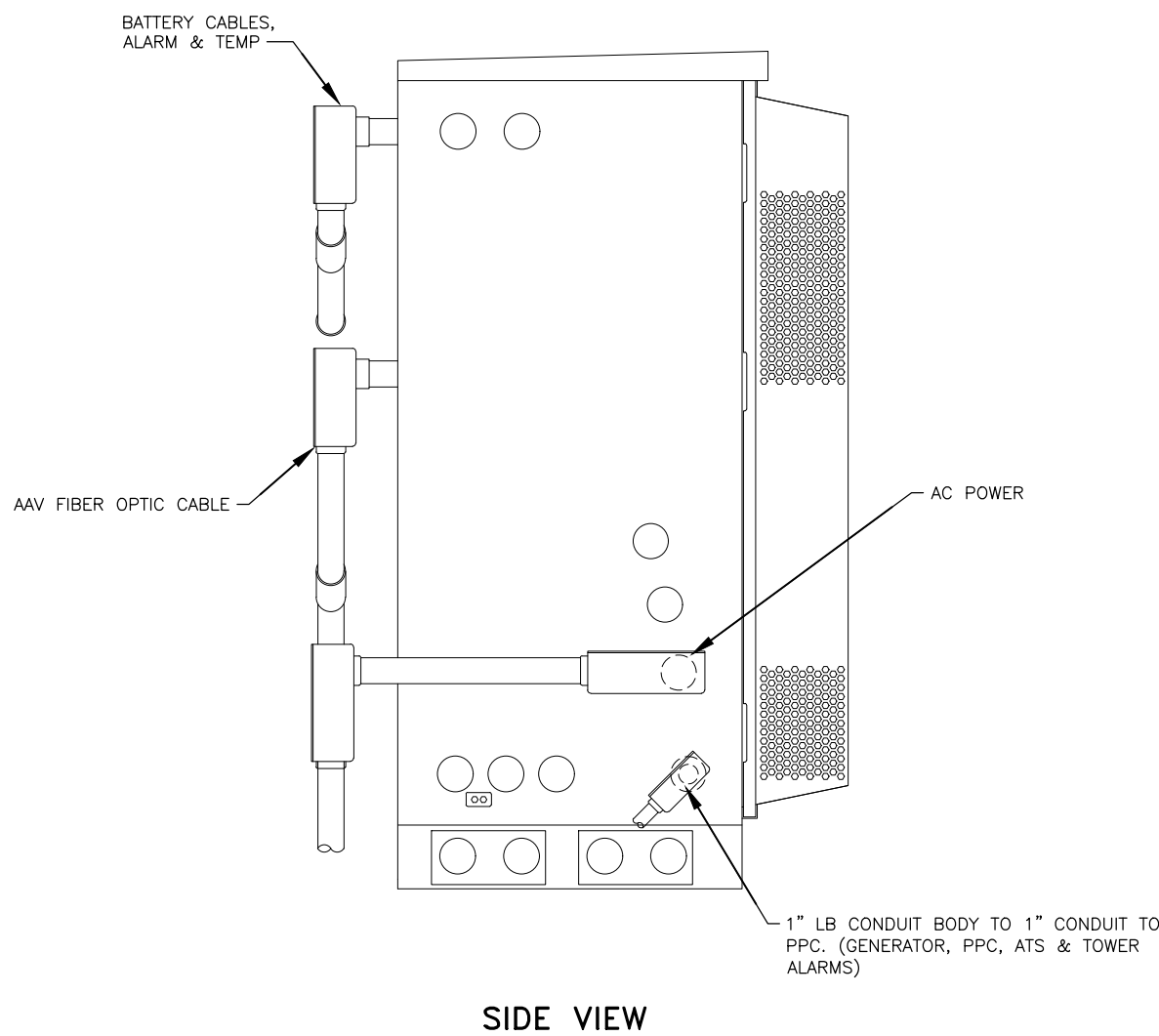
1. ALL CONDUIT AND FITTING ENTRANCES INTO CABINETS AND ENCLOSURES MUST UTILIZE MYERS OR EQUIVALENT HUBS OR SEALING WASHERS TO PREVENT WATER ENTRY/SEEPAGE INTO CABINETS AND ENCLOSURES.
2. (LIQUIDFLEX) FLEXIBLE METALLIC CONDUIT (LFMC) & ASSOCIATED FITTINGS CAN BE USED AS NEEDED BUT ONLY FOR TIGHT CONDUIT BENDS AND RUNS SUBJECT TO UL AND NEC LIMITATIONS. 6" MAX PER CONDUIT RUN.
3. POWER CONDUIT BODY ATTACHED WITH SHORT NIPPLE AND SEALING WASHER INSIDE & OUT. (FOR DOOR HOOD CLEARANCE)
4. PULLING ELBOWS MAY BE USED IN LIEU OF A CONDUIT BODIES WHEN CLEARANCE IS LIMITED.
5. ALL EXTERNAL ALARM CONDUITS ARE TO TERMINATE AT THE PPC WITH A SINGLE 1" ALARM CONDUIT TO THE 6160.



CONDUIT LOCATIONS



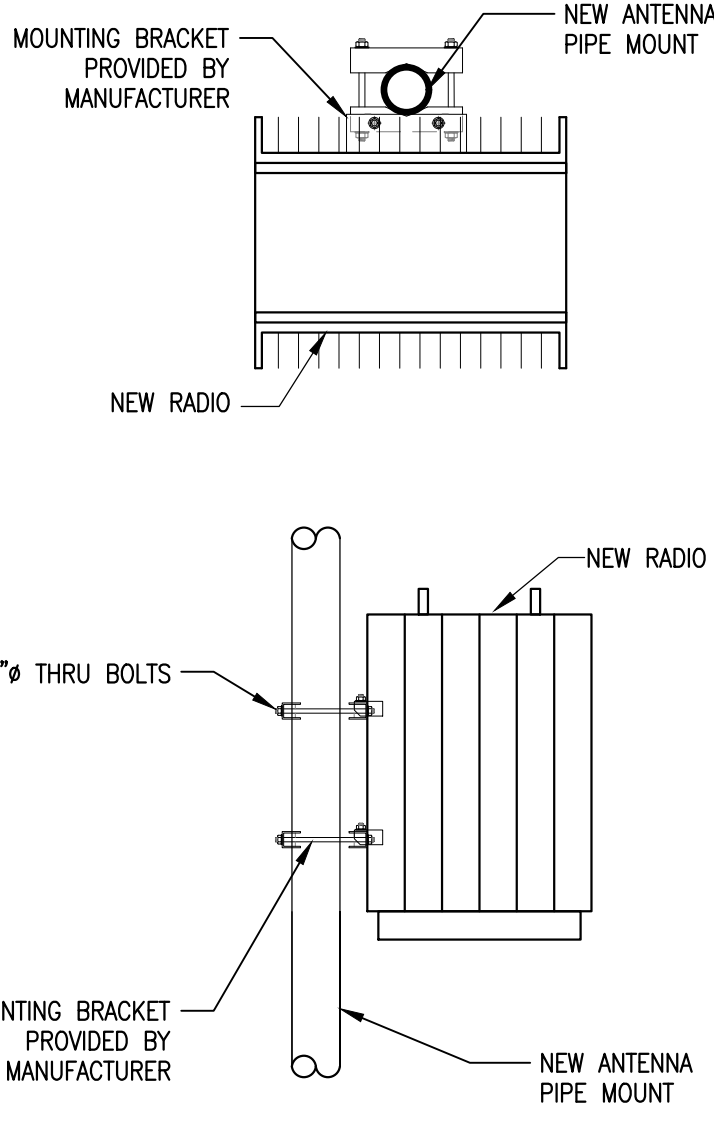
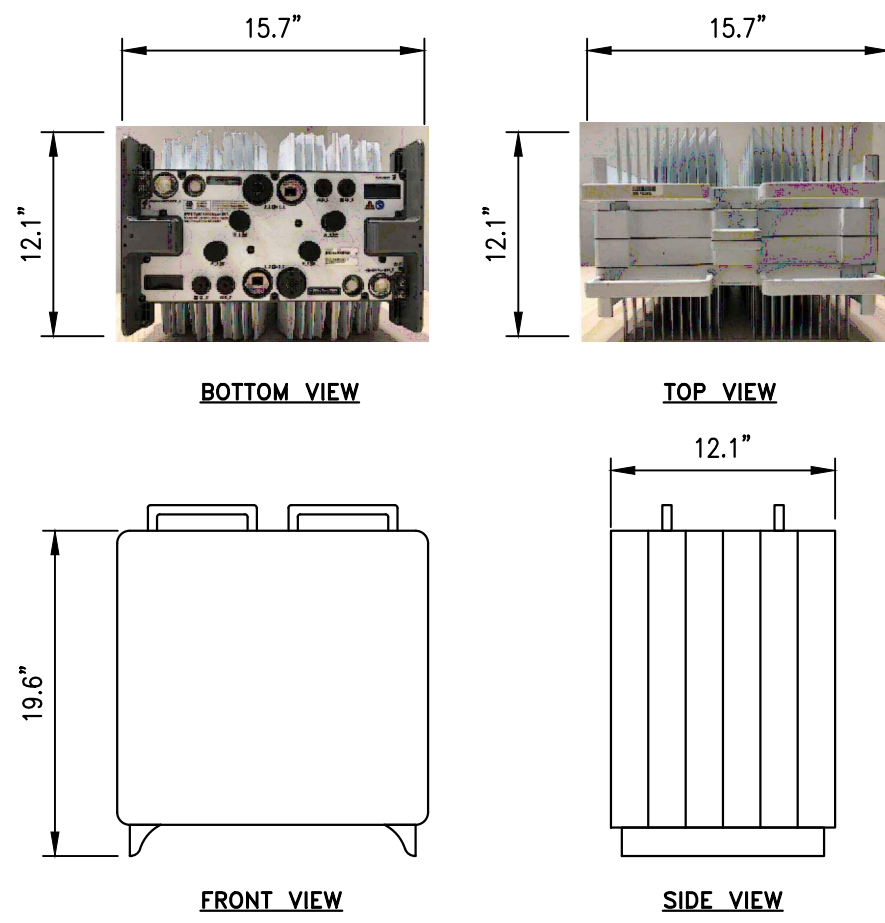
REAR VIEW



SIDE VIEW

ERICSSON RADIO 4460

DIMENSIONS, WxDxH: 15.7"x12.1"x19.6"
TOTAL WEIGHT: 109 lbs
TEMPERATURE: -40° TO 55° C

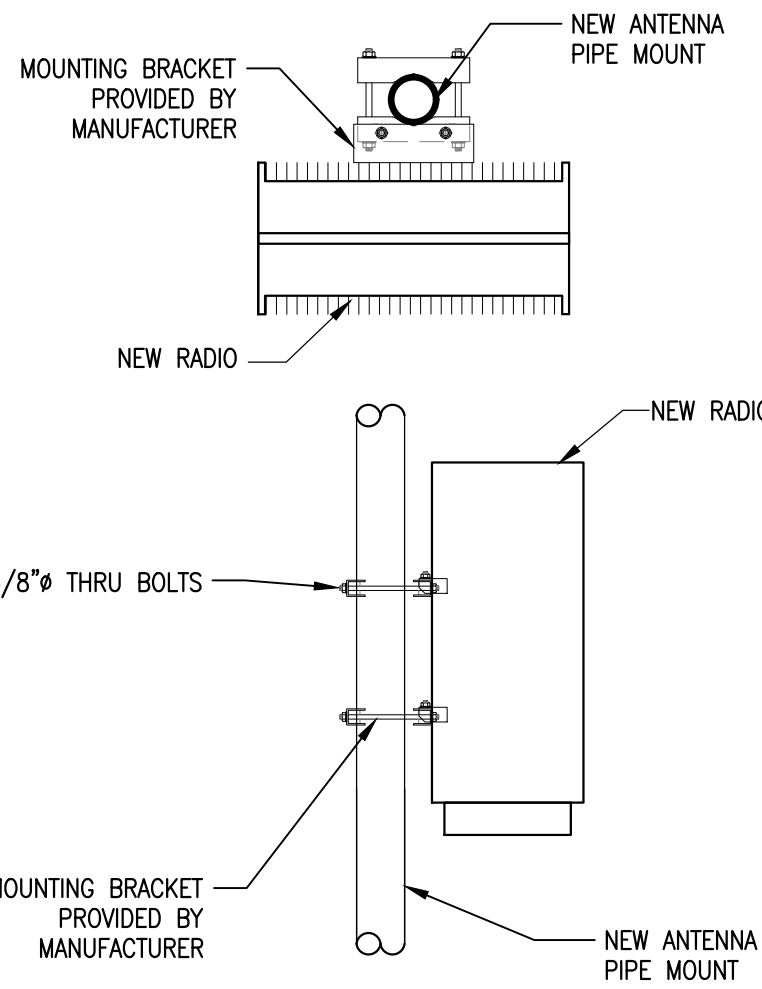
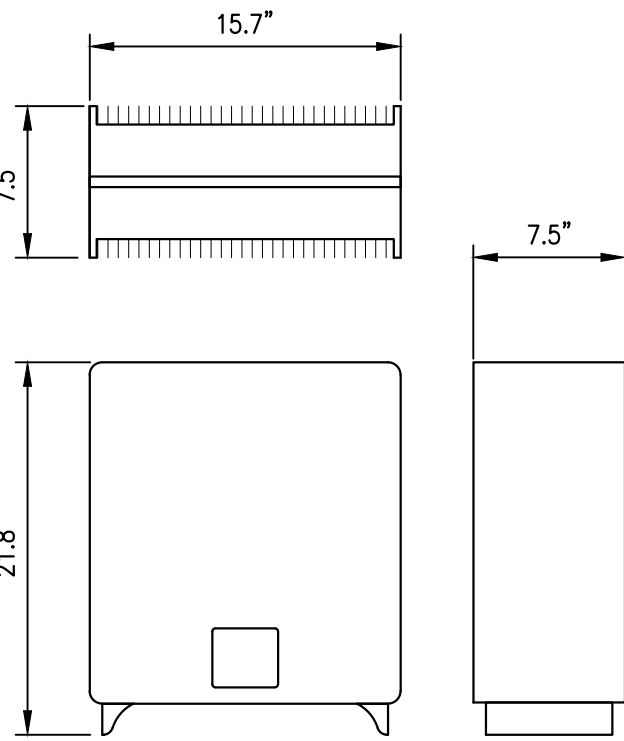


RADIO 4460 DETAIL

SCALE: 4
N.T.S.

ERICSSON RADIO 4480 B71+B85

DIMENSIONS, WxDxH: 15.2"x7.5"x19.2"
TOTAL WEIGHT: 92.5 lbs
TEMPERATURE: -40° TO 55° C



RADIO 4480 DETAIL

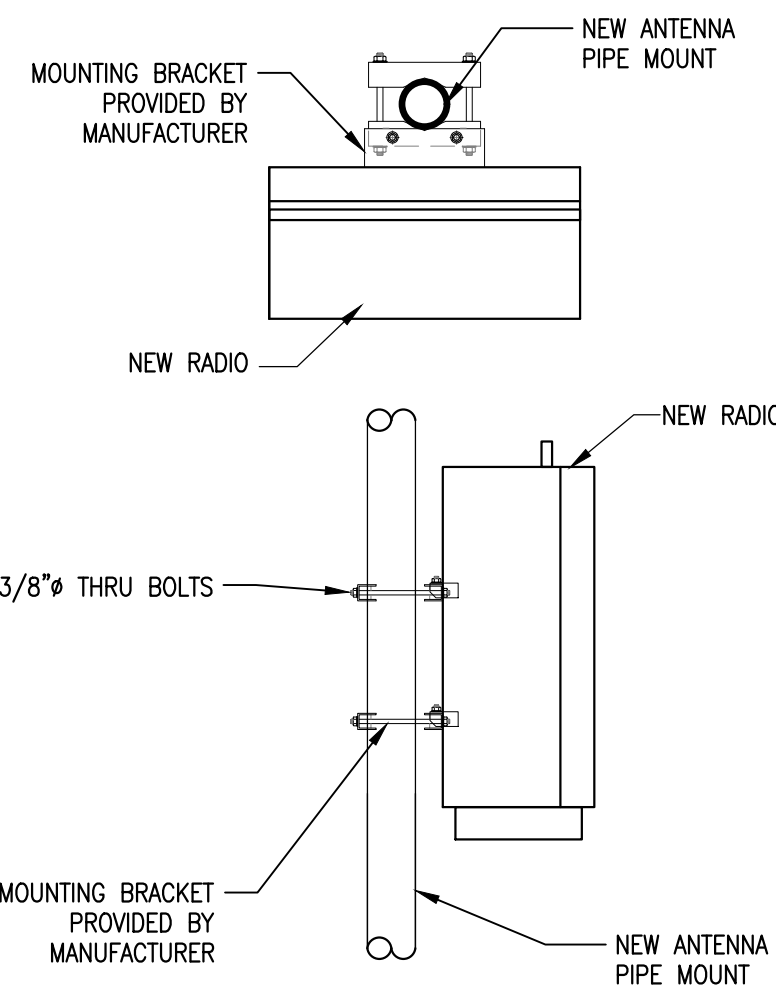
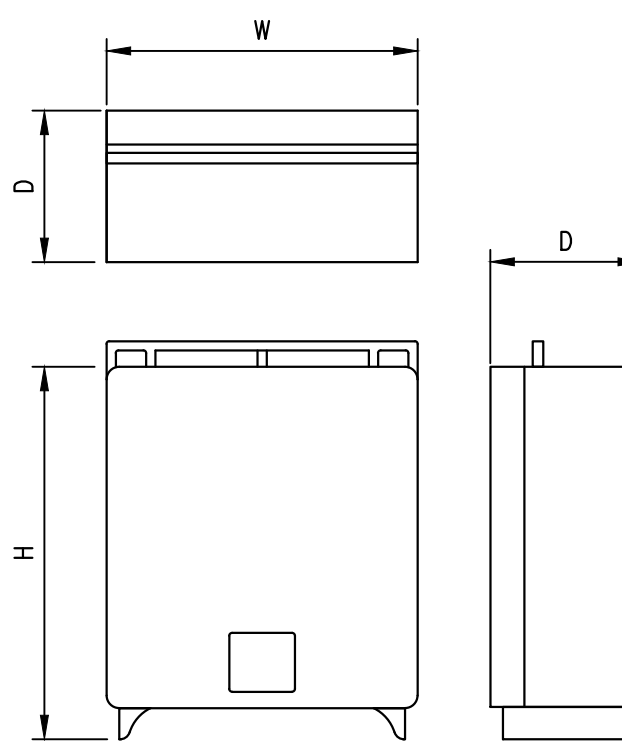
SCALE: 5
N.T.S.

CABINET MOUNT DETAIL

SCALE: 1
N.T.S.

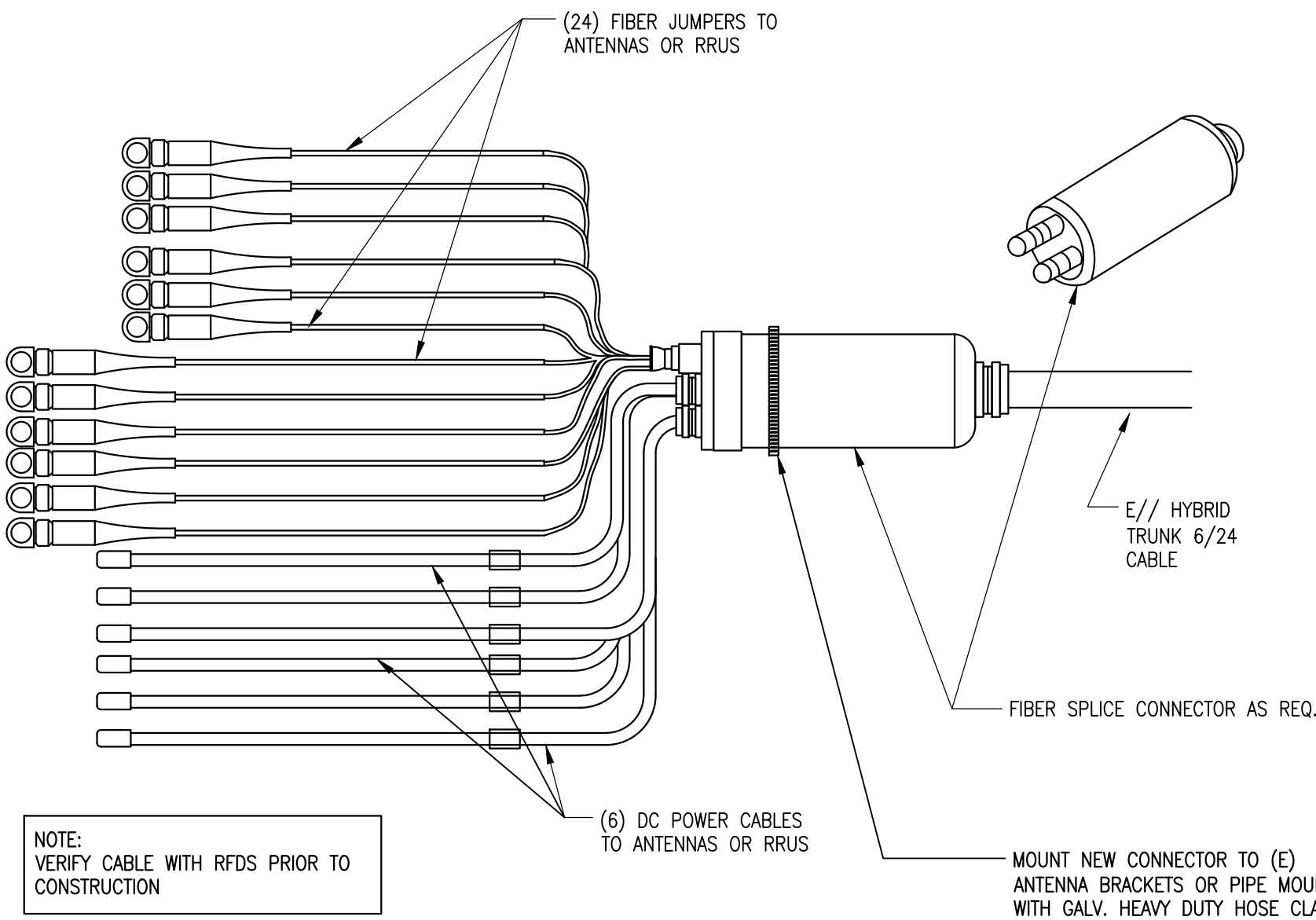
ERICSSON RADIO 8863 B41

DIMENSIONS, HxWxD: 478 x 375 x 145 mm
TOTAL WEIGHT W/O FAN UNIT: 22.6 kg
TOTAL WEIGHT W/ FAN UNIT: 23.1 kg
TEMPERATURE: -40° TO 55° C



RADIO 8863 DETAIL

SCALE: 2
N.T.S.

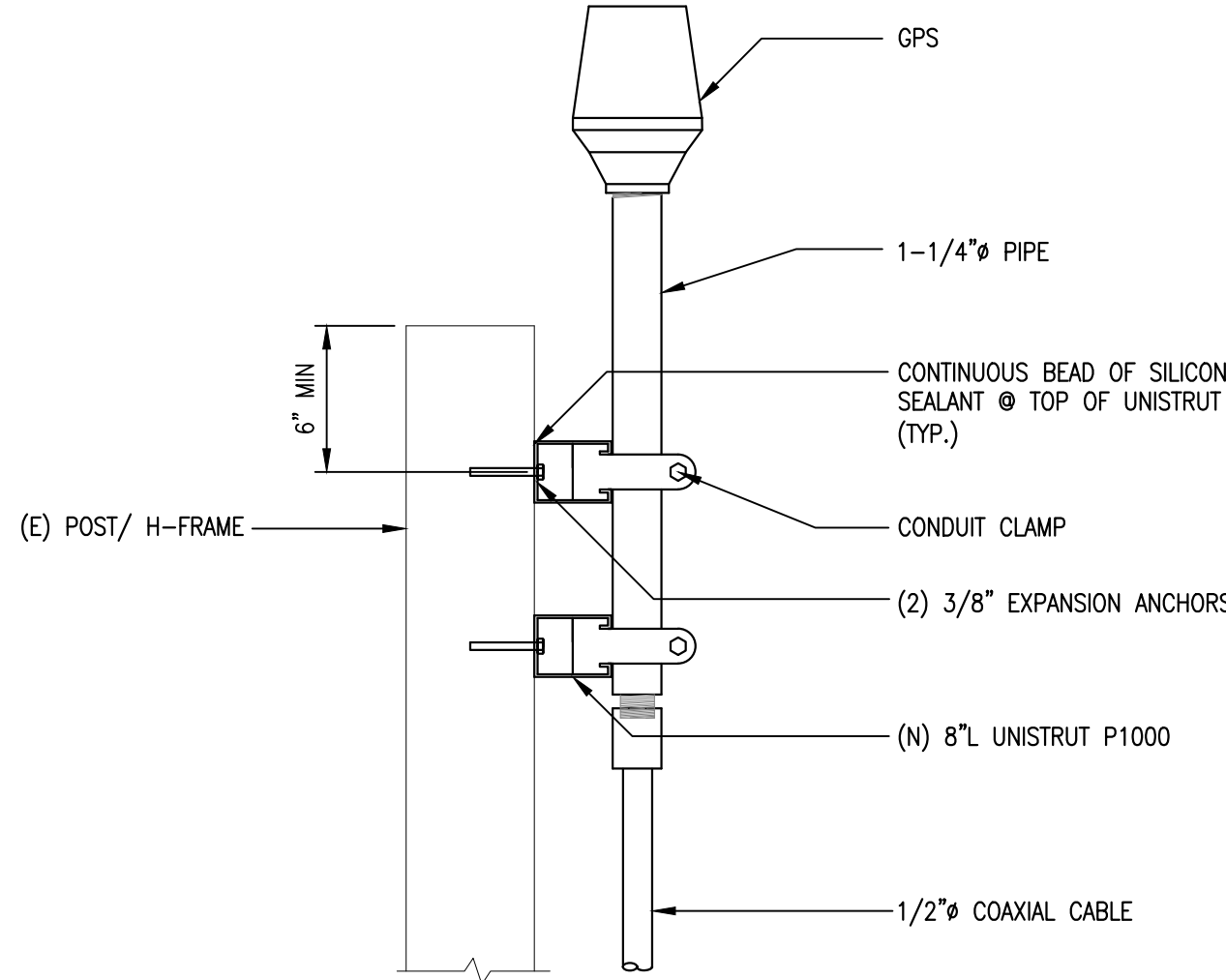


NOTE: VERIFY CABLE WITH RFDS PRIOR TO CONSTRUCTION

HYBRID CABLE DETAIL

SCALE: 6
N.T.S.

GPS ANTENNA



SCALE: 3
N.T.S.

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DATE STAMPED: 12/22/2025

SHEET TITLE:

DETAILS

SHEET NUMBER:

D-1

CABINET CONDUIT CONNECTIONS

SCALE: 9
N.T.S.

1. ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.

Technical drawing of the Nokia 7750 SR chassis, showing front, rear, and side views with dimensions and port labels.

FRONT VIEW

- DC PSU DC PSU
- SFP/SFP+ 10 Gbps PORTS 1-24
- SFP28/SFP+ 25Gbps PORTS 25-32
- GNSS RECEIVER
- MANAGEMENT
- QSGP28 100GBPS PORTS 33-34
- USB
- CONSOLE

GROUNDING CHASSIS, USE TWO HOLE LUG, DESIGNED FOR #8 AWG BURNDY (YAZ8C2T1045) NOKIA PIN# 52-1178-01

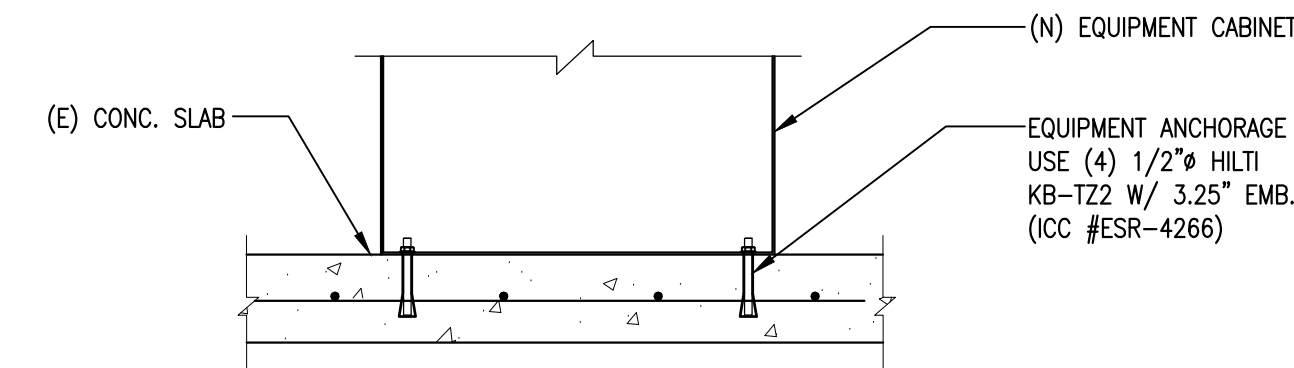
REAR VIEW

17.25"

SIDE VIEW

10"

1.75"

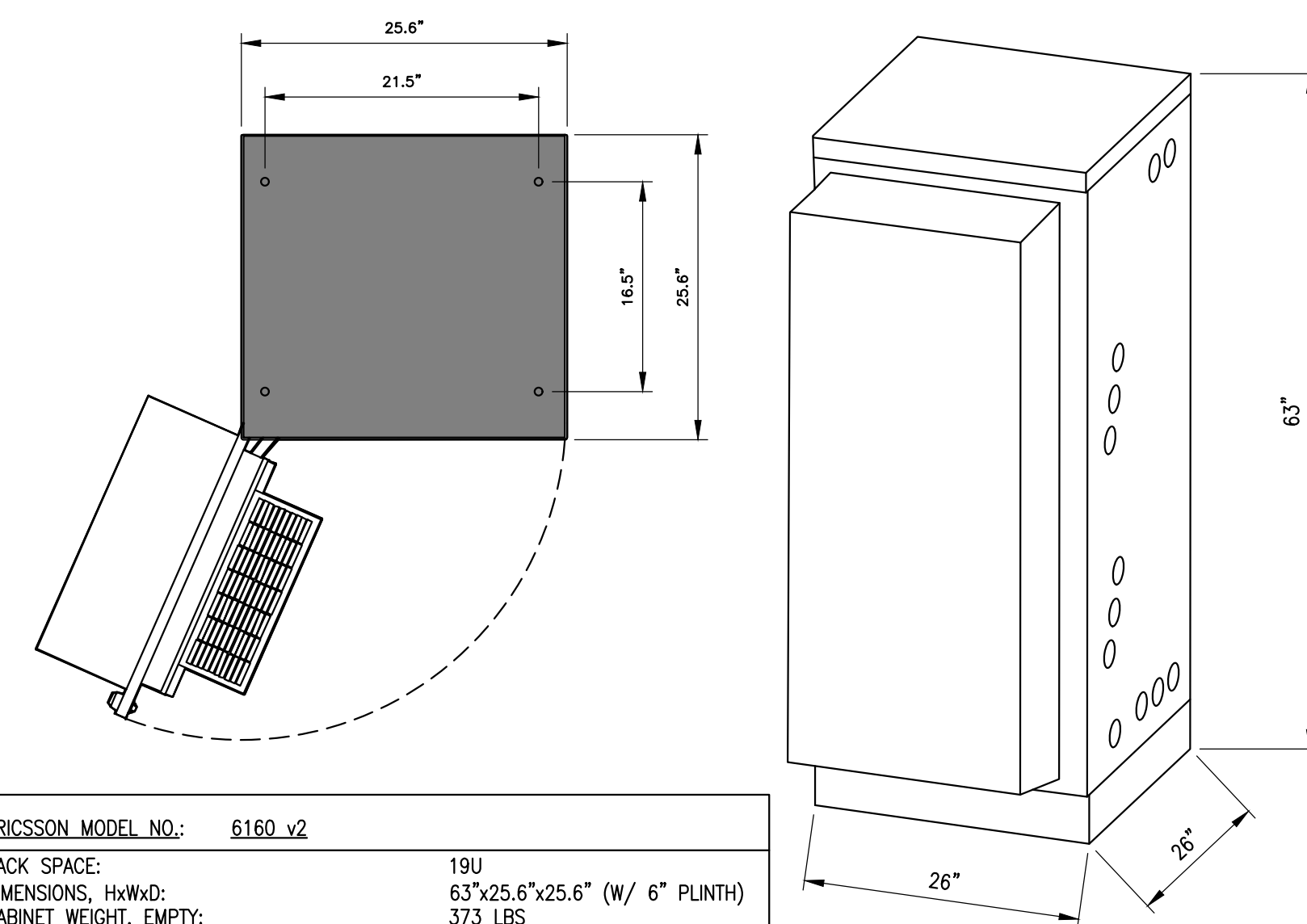


BATTERY TECHNOLOGY
Flow batteries
Lead acid, all types
Lithium, all types
Nickel cadmium (Ni-Cd)
Sodium, all types
Other battery technologies

Technical drawing of the 19-inch Baseband Unit, showing two views: TOP VIEW and FRONT VIEW.

TOP VIEW: Shows the unit's footprint. The width is labeled as 19". The height is labeled as 13.8". A FAN MODULE is indicated on the top surface. MOVABLE BRACKETS are indicated on the right side.

FRONT VIEW: Shows the unit's profile. The height is labeled as 1.75". The unit is labeled as 19-INCH BASEBAND UNIT.



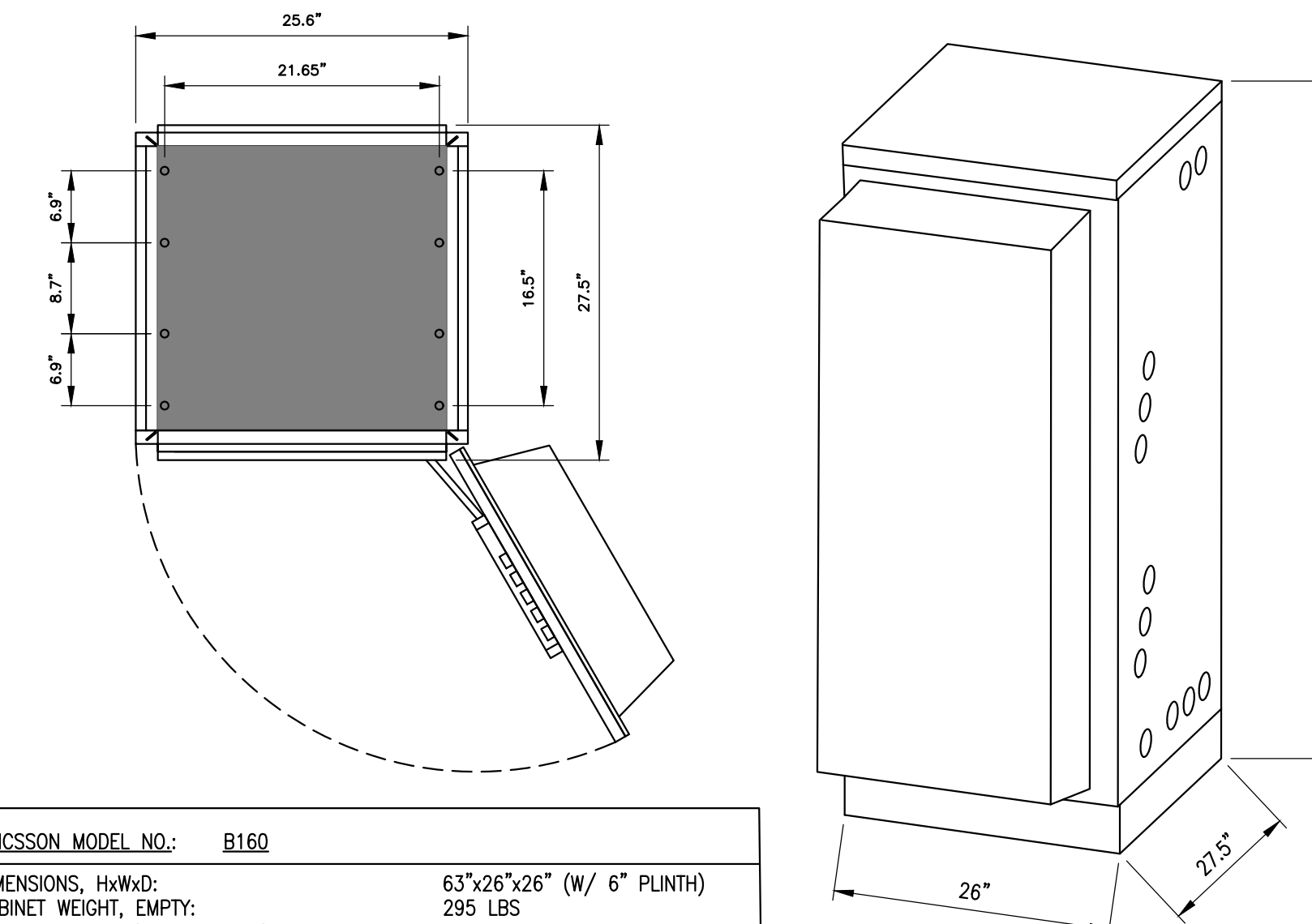
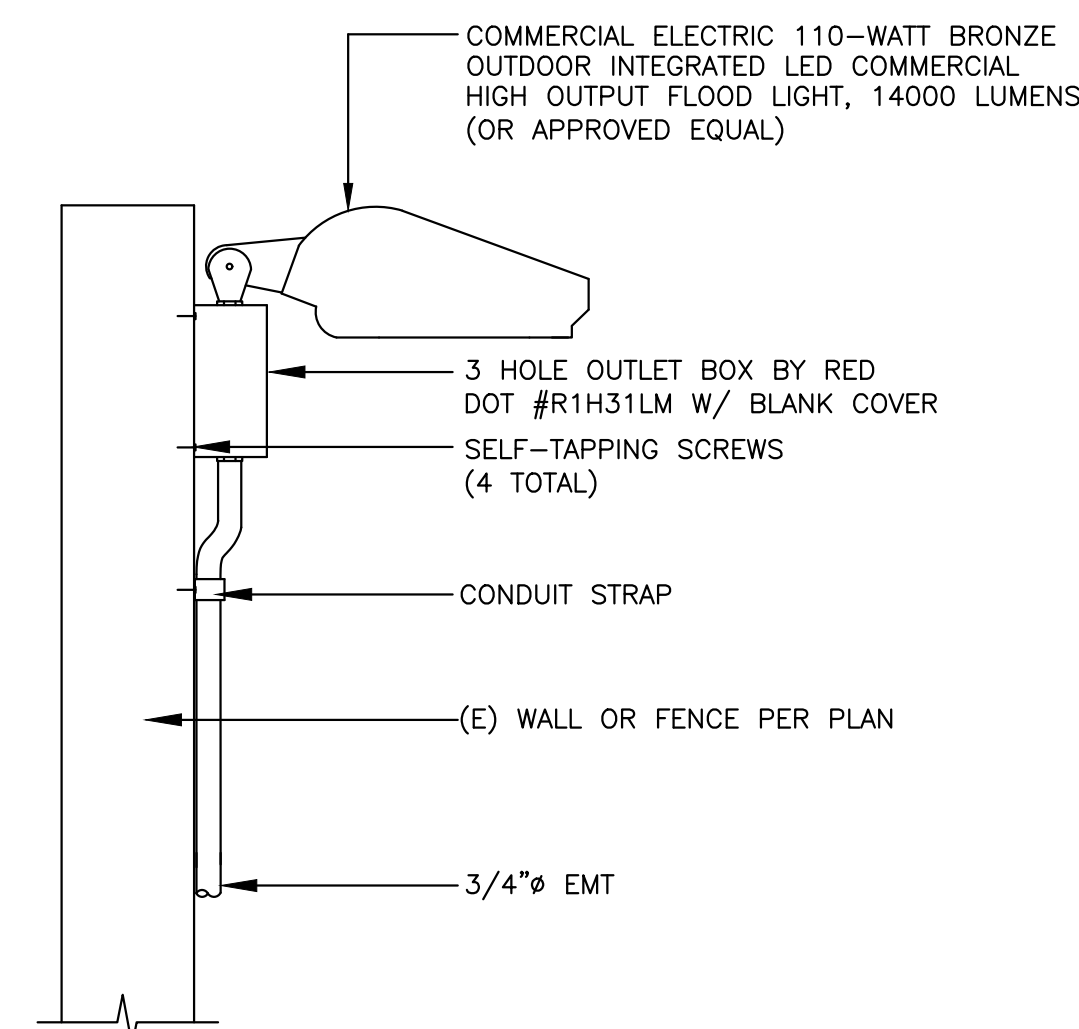
ERICSSON MODEL NO.:	6160 v2
RACK SPACE:	19U
DIMENSIONS, HxWxD:	63"x25.6"x25.6" (W/ 6" PLINTH)
CABINET WEIGHT, EMPTY:	373 LBS
EQUIPMENT WEIGHT:	400 LBS MAX
TOTAL WEIGHT:	773 LBS

(N) FIBER WINDER BOX
PER PLAN

(E) H-FRAME

ATTACH NEW CABINET TO
UNISTRUT W/ SPRING NUT AND
BOLT HARDWARE

NEW 3/8"Ø SS HILT1 KB-TZ
© 12" O.C.



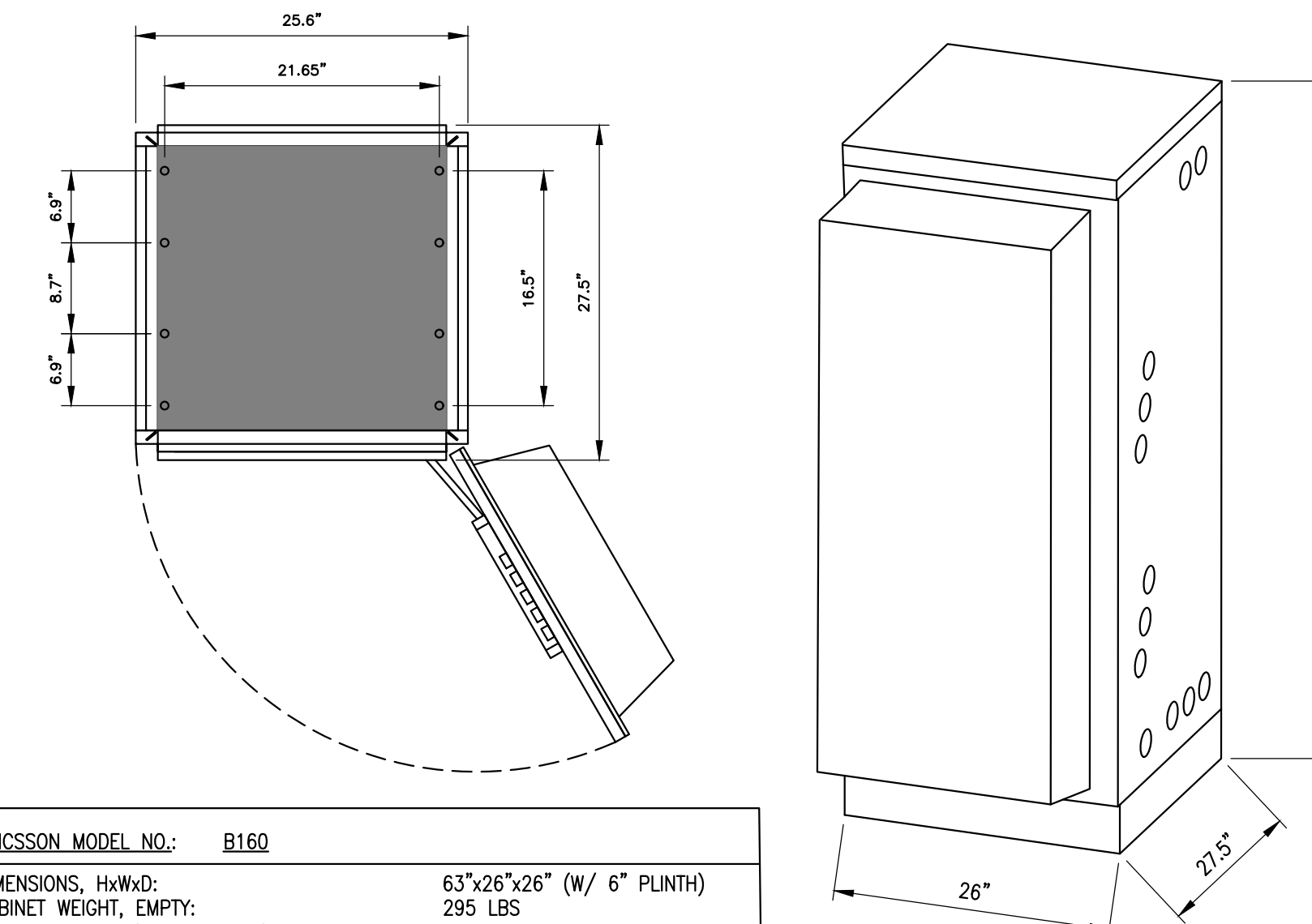
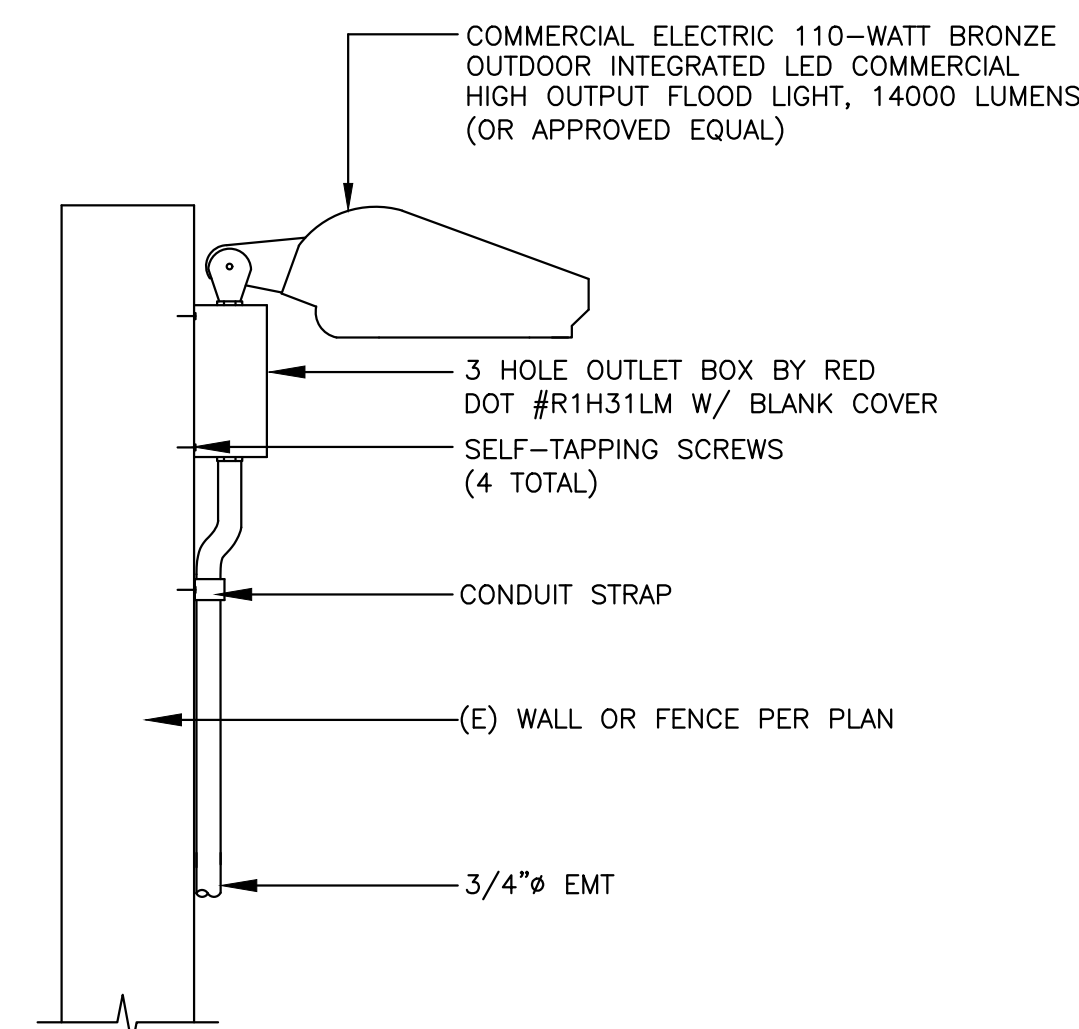
ERICSSON MODEL NO.: <u>B160</u>	
DIMENSIONS, HxWxD:	63"x26"x26" (W/ 6" PLINTH)
CABINET WEIGHT, EMPTY:	295 LBS
BATTERY WEIGHT (132LBS X 12):	1,584 LBS
TOTAL WEIGHT:	1,879 LBS

(N) FIBER WINDER BOX
PER PLAN

(E) H-FRAME

ATTACH NEW CABINET TO
UNISTRUT W/ SPRING NUT AND
BOLT HARDWARE

NEW 3/8"Ø SS HILT1 KB-TZ
© 12" O.C.

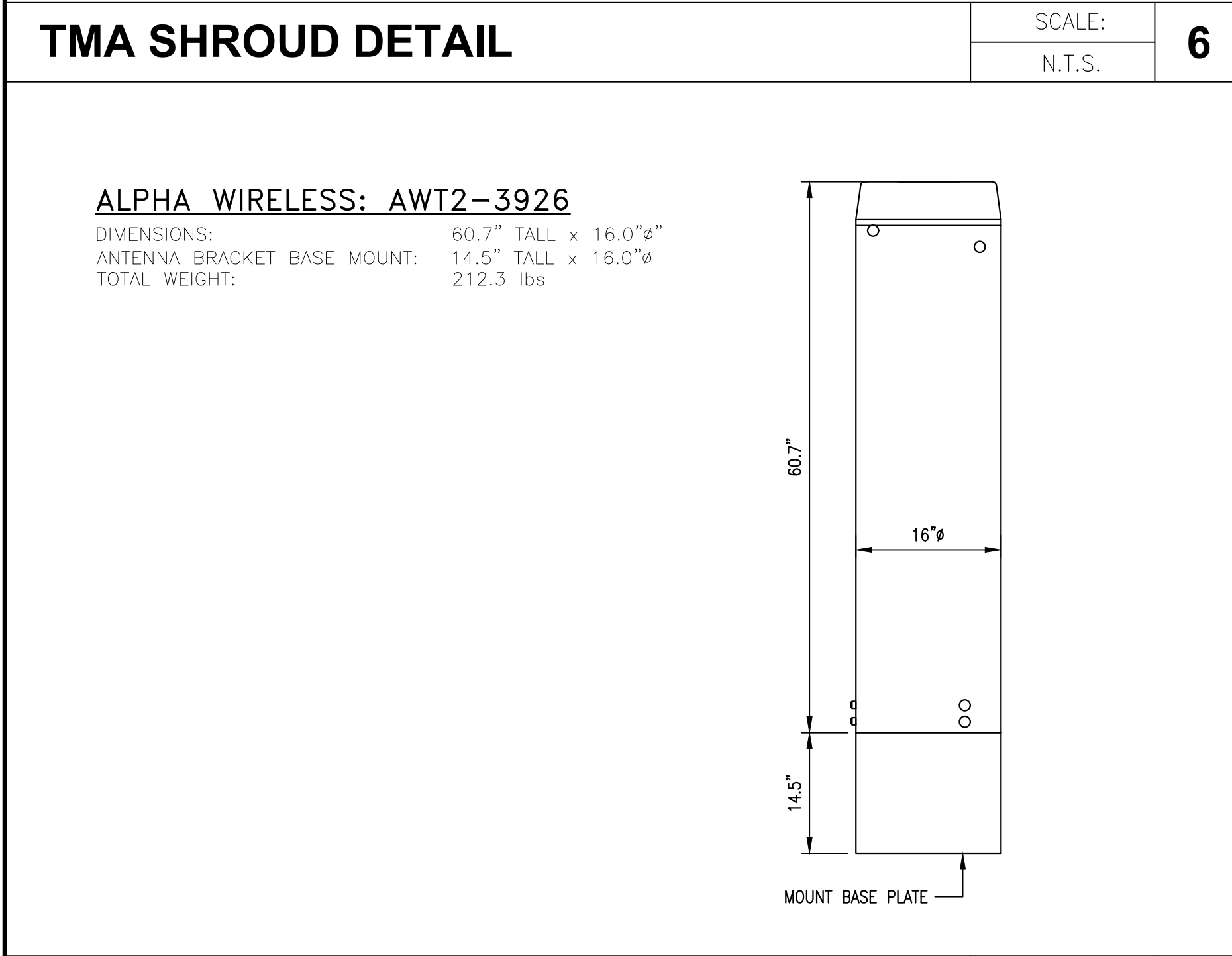
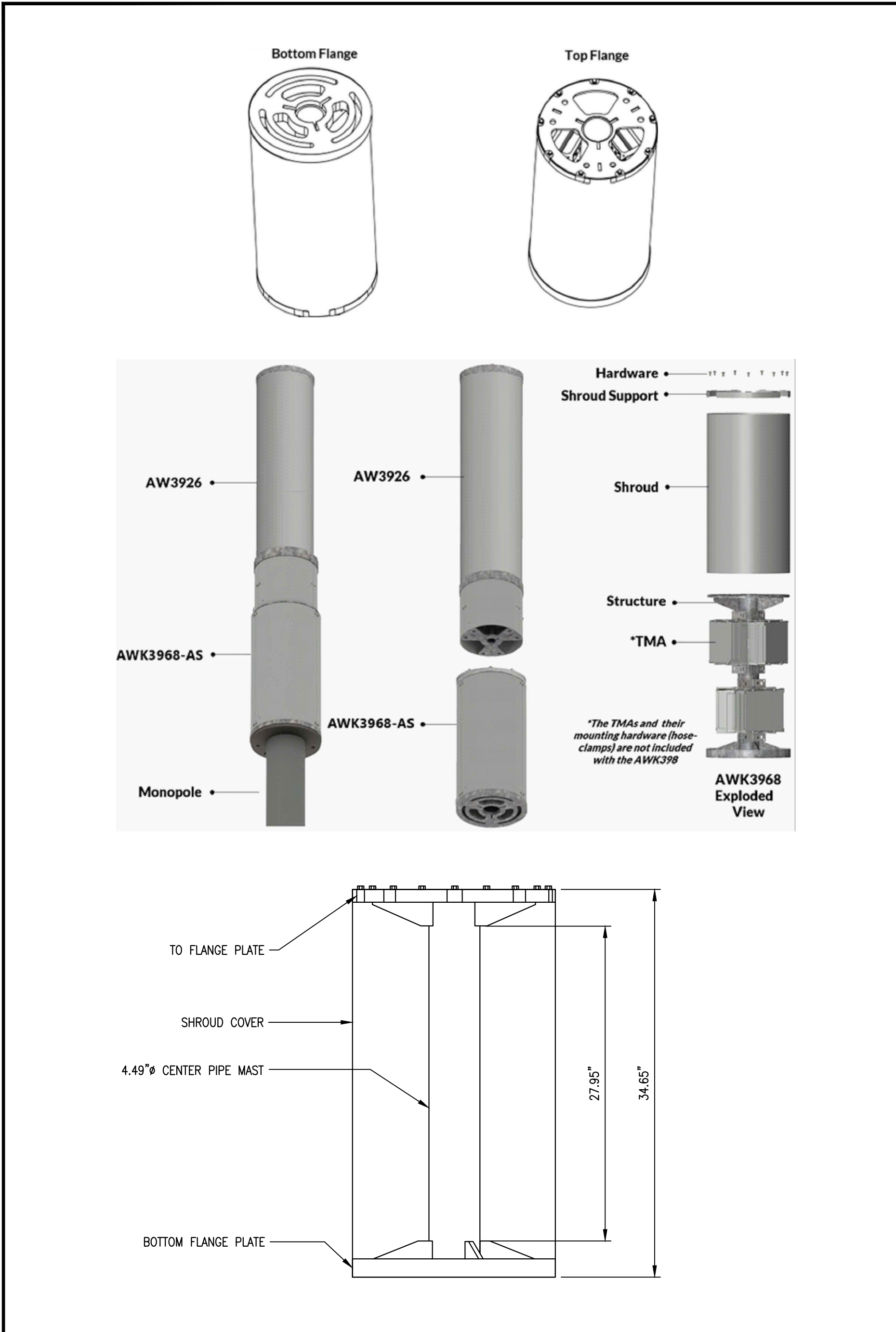


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1511 E. ORANGETHORPE, SUITE D
FULLERTON, CA 92831

[illegible]

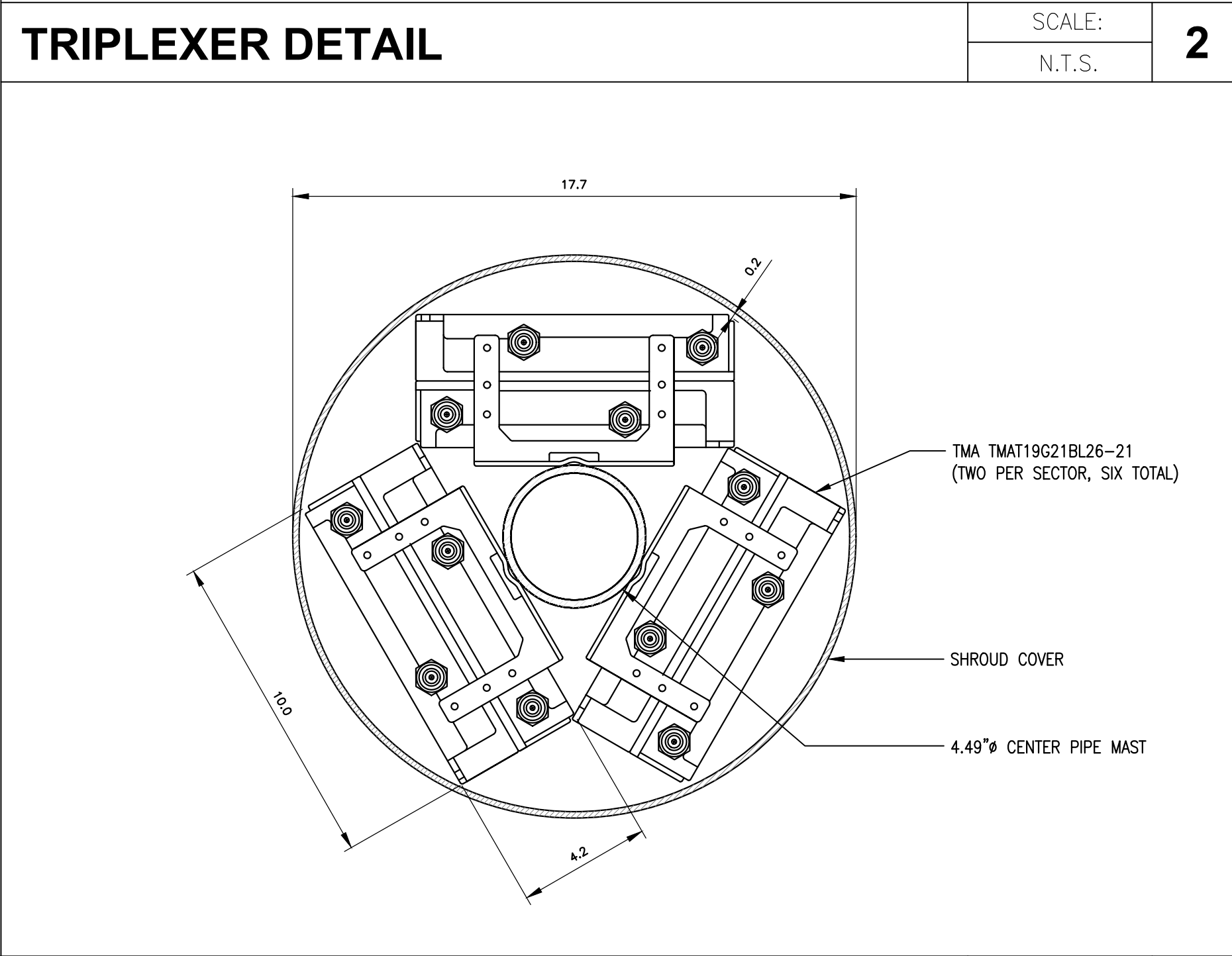
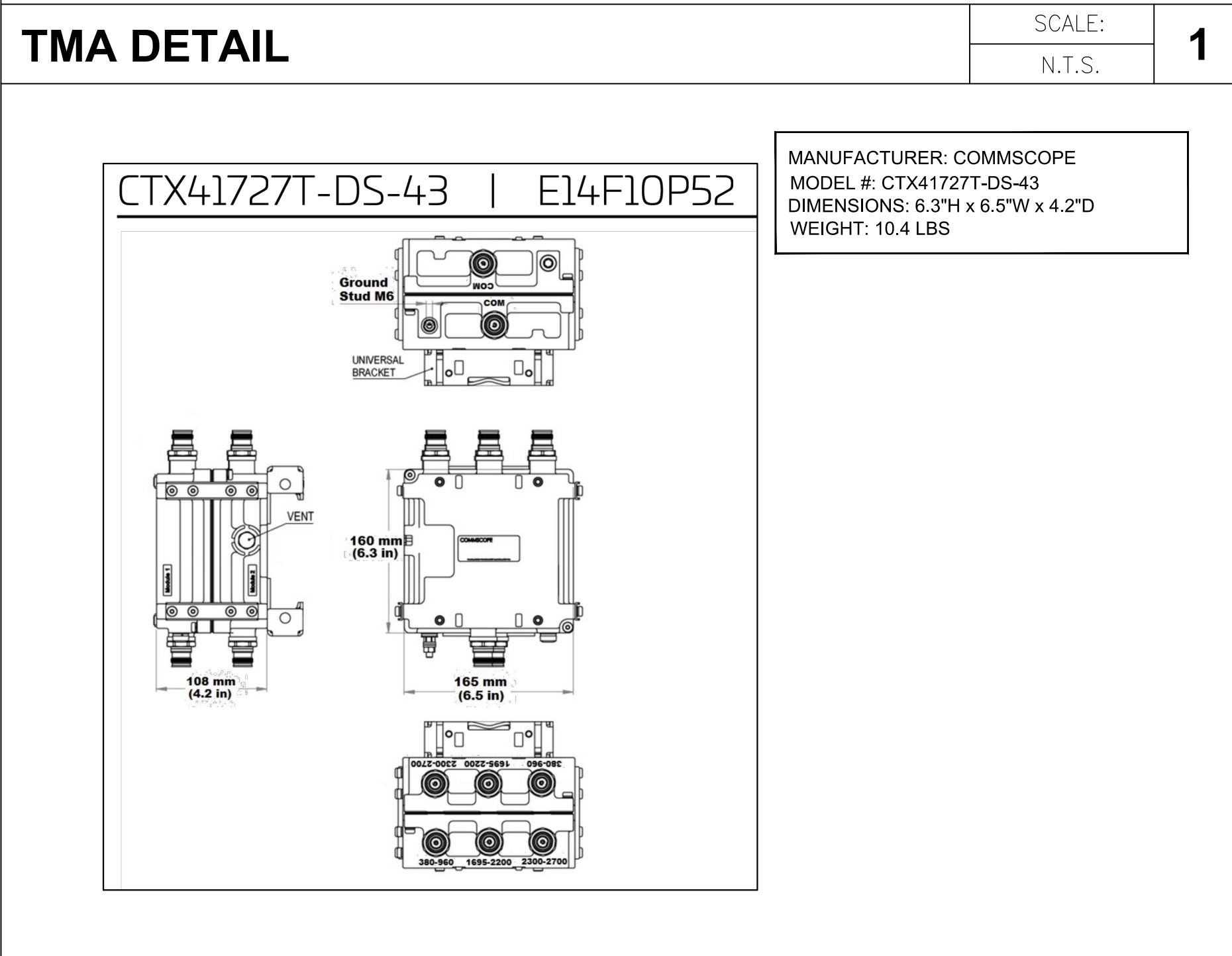
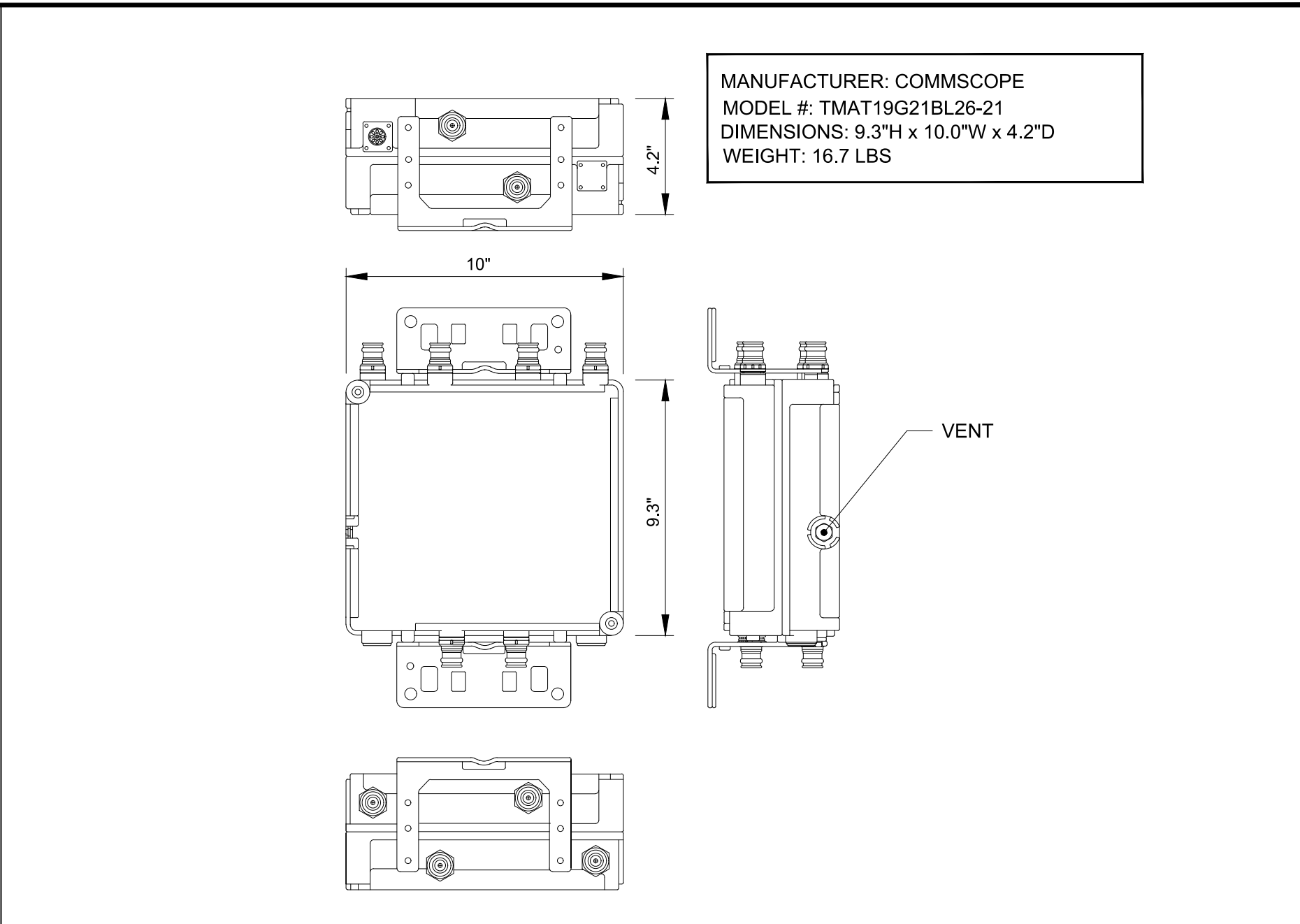
D-2



ANTENNA DETAIL

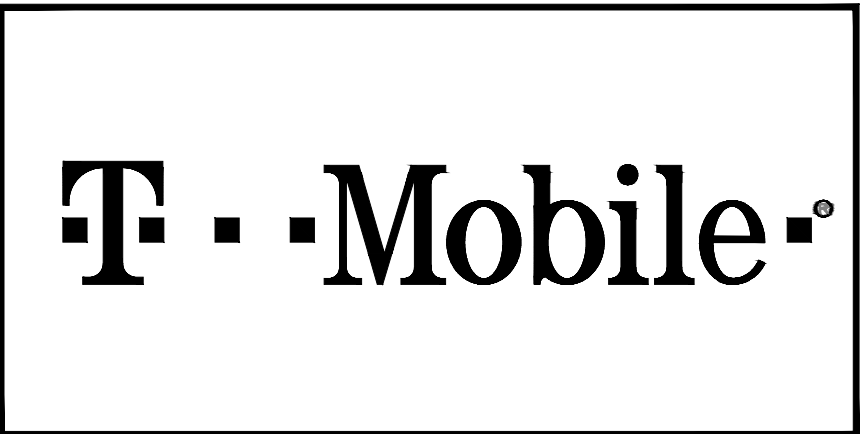
SCALE: N.T.S. **7**

NOT USED



SECTION AT TMA ENCLOSURE

SCALE: N.T.S. **3**



PLANS PREPARED BY:

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DETAILS

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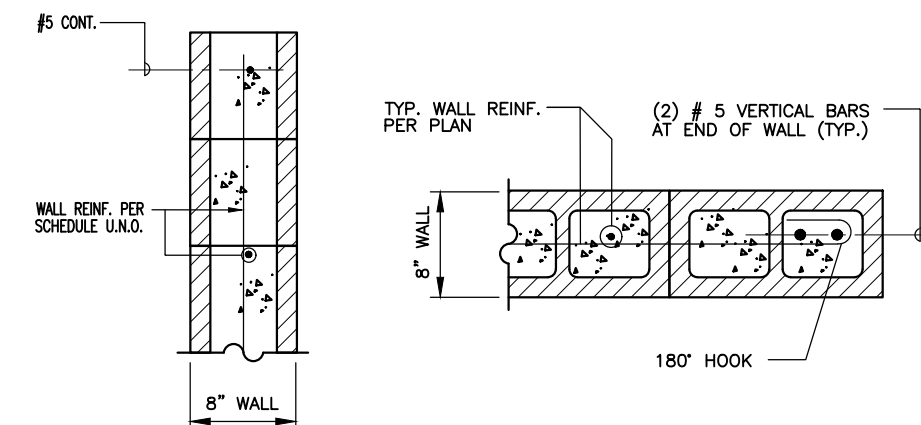
D-3

1. DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS (UNLESS OTHERWISE NOTED) MUST FOLLOW THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ACI 315, LATEST EDITION.
2. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 OR A706 (DEFORMED BARS). NO. 3 BARS - GRADE 40, ALL OTHERS - GRADE 60. REINFORCING TO BE WELDED SHALL CONFORM TO A706.
3. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

1. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND REVIEWED BY THE ENGINEER. MINIMUM COARSE AGGREGATE SIZE IS 1/2 INCH.
2. CEMENT SHALL CONFORM TO ASTM C150.
3. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MIN. CEMENT CONTENT. (CALCIUM CHLORIDE SHALL NOT BE USED.)
4. ALL CONCRETE TO BE HARDROCK WITH THE FOLLOWING 28 DAY ULTIMATE COMPRESSIVE STRENGTH (F'c) :
FOOTINGS 2500 PSI.

1. FOUNDATION DESIGN BASED ON SOILS VALUES FROM THE 2022 CBC NO SOILS REPORT HAS BEEN PERFORMED
2. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE, GROUND, OR SEEPAGE WATER.
3. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND SHORING REQUIRED TO SAFELY RETAIN THE EARTH BANKS.
4. FOOTING ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY AND ARE ASSUMED TO BE IN SUITABLE BEARING MATERIALS. THE ACTUAL ADEQUACY OF THE BEARING MATERIAL SHALL BE DETERMINED BY GEO-TECHNICAL ENGINEER PRIOR TO PLACING OF REINFORCING AND CONCRETE. FOOTING ELEVATIONS, IF NECESSARY, SHALL BE LOWERED AS DIRECTED BY GEOTECHNICAL ENGINEER.

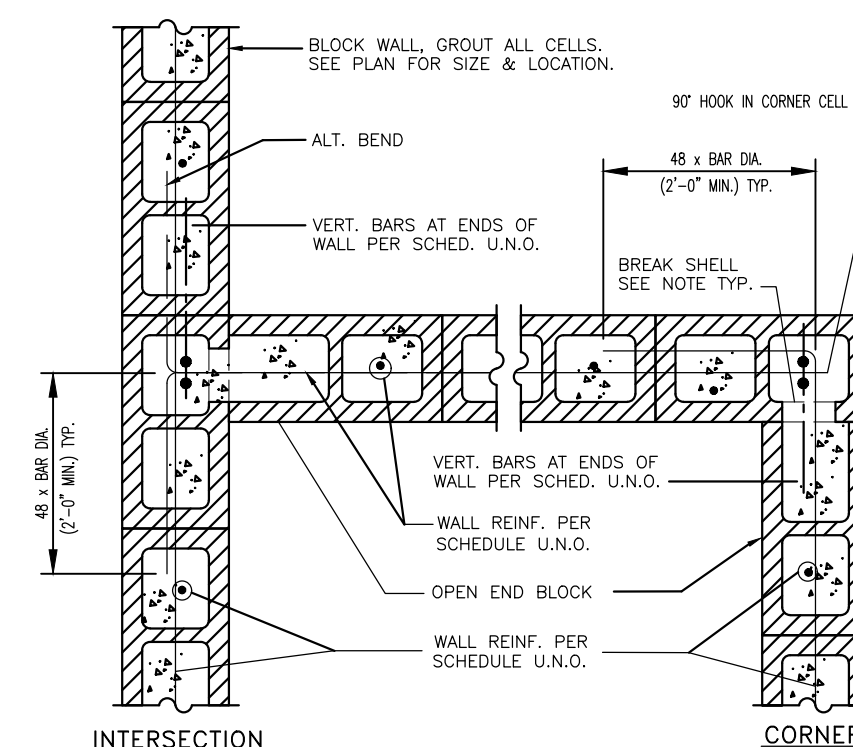
1. MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530) AND THE 2013 CALIFORNIA BUILDING CODE.
2. HOLLOW LOAD BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, GRADE N-1 AND BE MADE WITH NORMAL WEIGHT AGGREGATE. THE MINIMUM COMPRESSIVE STRENGTH (F_m) SHALL BE 1550 PSI AT 28 DAYS, AS PERMITTED BY THE UNIT STRENGTH METHOD OF ACI 530.1.
3. FILL ALL CELLS SOLIDLY WITH GROUT. GROUT SHALL CONFORM TO ASTM C-476 AND SHALL OBTAIN A MIN 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
4. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A-615 GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE HOOKED OR BENT. PROVIDE MINIMUM LAP OF 48 X BAR DIAMETER AT ALL SPLICES UNLESS INDICATED OTHERWISE.
5. MORTAR SHALL CONFORM TO ASTM C-270, TYPE S. ALL MORTAR SHALL MEET THE "PROPORTION SPECIFICATION" OF ASTM A-270 AND BE MADE WITH PORTLAND CEMENT/LIME (NON AIR ENTRAINED)
6. PROVIDE REBAR DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCEMENT SIZE AND SPACING. DOWELS SHALL HAVE STANDARD 90° HOOKS AND LAP WITH THE FIRST LIFT OF REINFORCING.
7. THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION.
8. SPECIAL INSPECTION REQUIRED FOR ALL CMU CONSTRUCTION.



CMU DETAIL @ TOP / END

3

N.T.S.

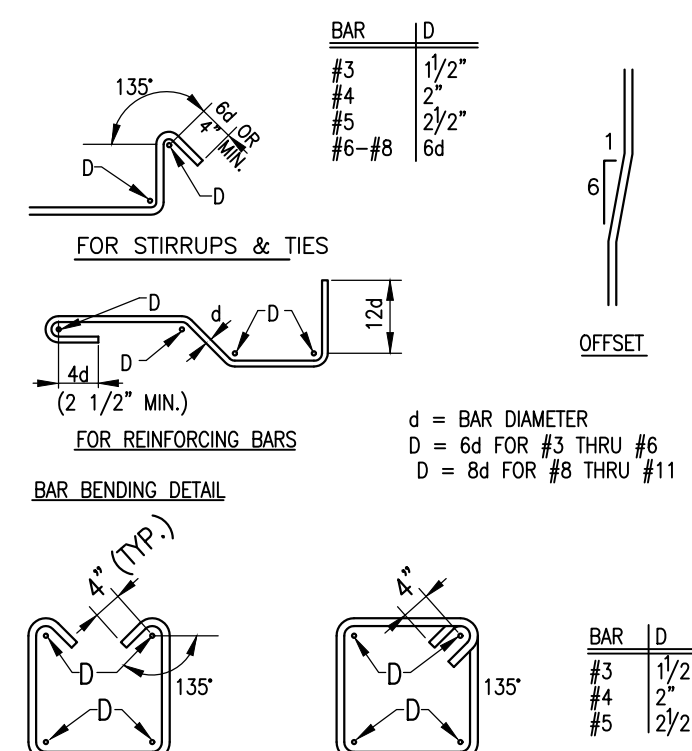


NOTES:
BLOCK LAYOUT SHOWN IS DIAGNMMATIC. ACTUAL CONDITION WILL VARY PER
RUNNING BOND PATTERN, USE APPROPRIATE UNITS OR BREAK CMU SHELL
AS REQUIRED FOR REINFORCING PLACEMENT AND FLOW OF GROUT.

CMU DETAIL @ CORNER / INTERSECTION

4

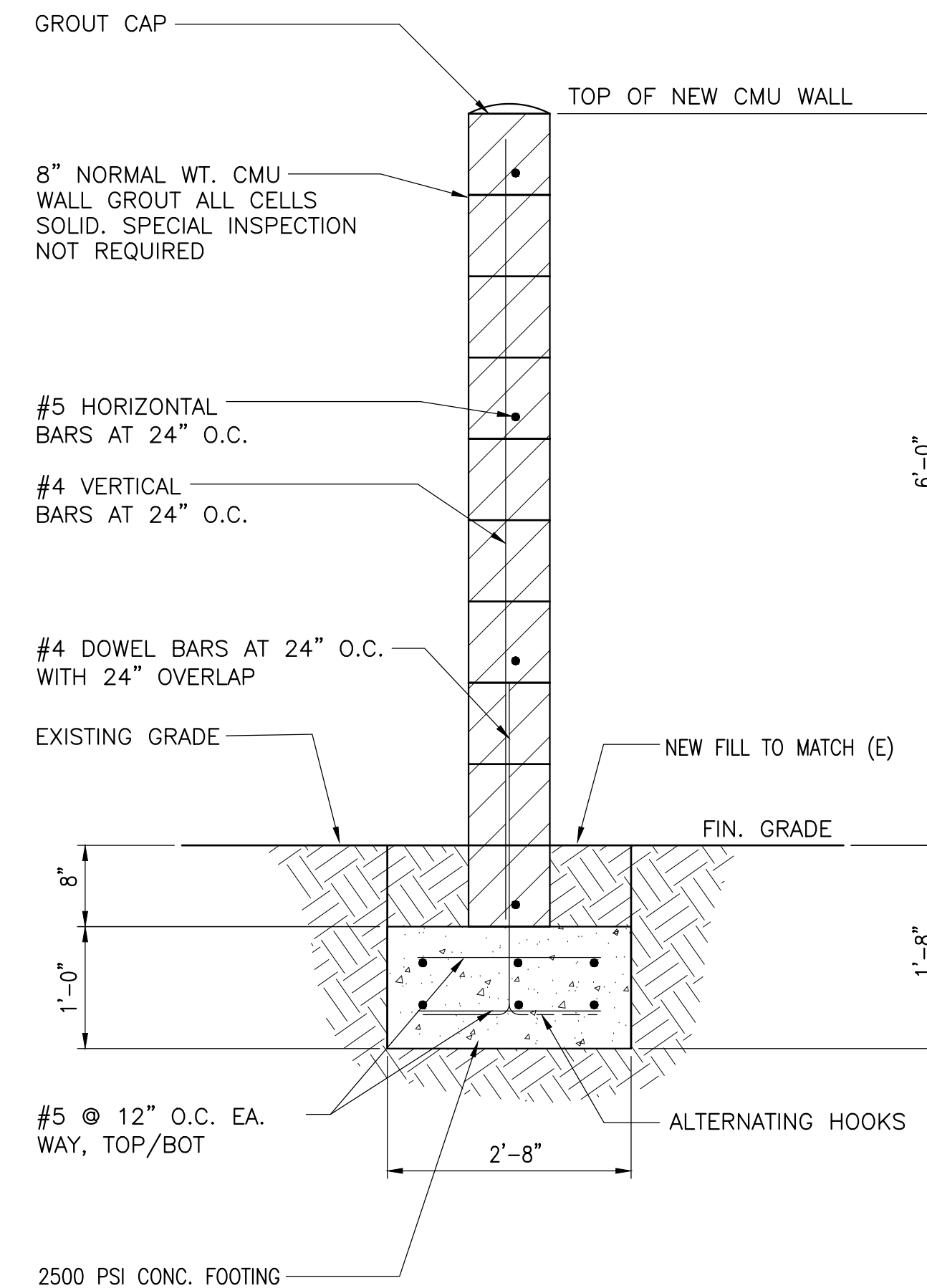
N.T.S.



TYP. BAR BEND RADIUS

5

N.T.S.



CMU WALL DETAIL

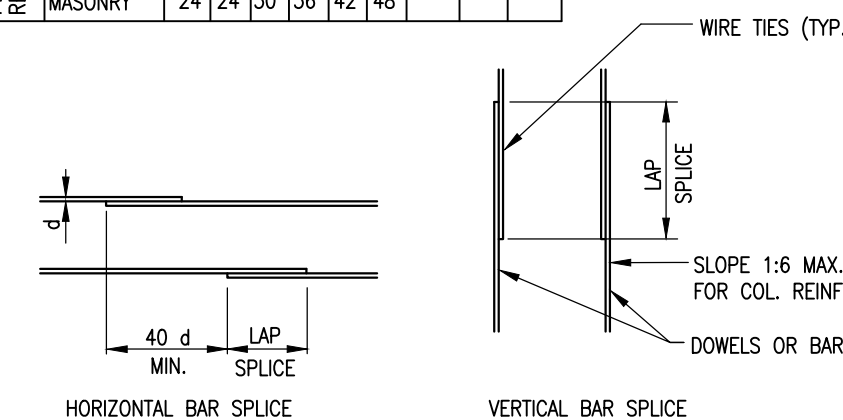
1

N.T.S.

	CONC. F.C. P.S.I.	BAR SIZE									
		3	4	5	6	7	8	9	10	11	
		LAP SPUCE (INCHES)									
HORIZONTALLY PLACED REINFORCING	2000	24	24	36	50	69	91	115	145	178	
	3000	24	29	36	46	63	82	104	132	165	
	4000	24	29	36	43	54	71	90	115	141	
MASONRY		24	24	30	36	42	48				

1. ALL VERTICAL REINFORCING FOR COL., PIERS & WALLS SHALL BE DOWELED AS SHOWN EXCEPT SPECIFIC DETAILS ON DRAWINGS SHALL GOVERN IN CASES OF CONFLICT.

2. DOWELS SHALL BE THE SAME GRADE, SIZE AND NUMBER AS VERTICAL REINFORCING.



TYP. BAR LAP SPLICE

2

N.T.S.

T-Mobile

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SUITE B160-131
RANCHO SANTA MARGARITA CA 92688
dconnell@connelldesigngroup.com
949-306-4644

— CONSULTING GROUP: —



**Butler
America**

1511 E. ORANGETHORPE, SUITE D
FULLERTON, CA 92831

NO.	DATE:	DESCRIPTION:	BY:
0	01/28/24	90% CD'S	LE
1	02/14/25	95% CD'S	JPC
2	03/06/25	95% CD'S	DC
3	03/25/25	95% CD'S	DC
4	10/03/25	100% CD'S	DC
5	12/22/25	100% CD'S	DC

— SITE INFORMATION: —

**MOSS BEACH
SHERIFF'S STATION**

SF71572M

500 CALIFORNIA AVE
MOSS BEACH, CA 94038

— SEAL: —



DATE STAMPED: 12/22/2025

— SHEET TITLE: —

DETAILS

— SHEET NUMBER: —

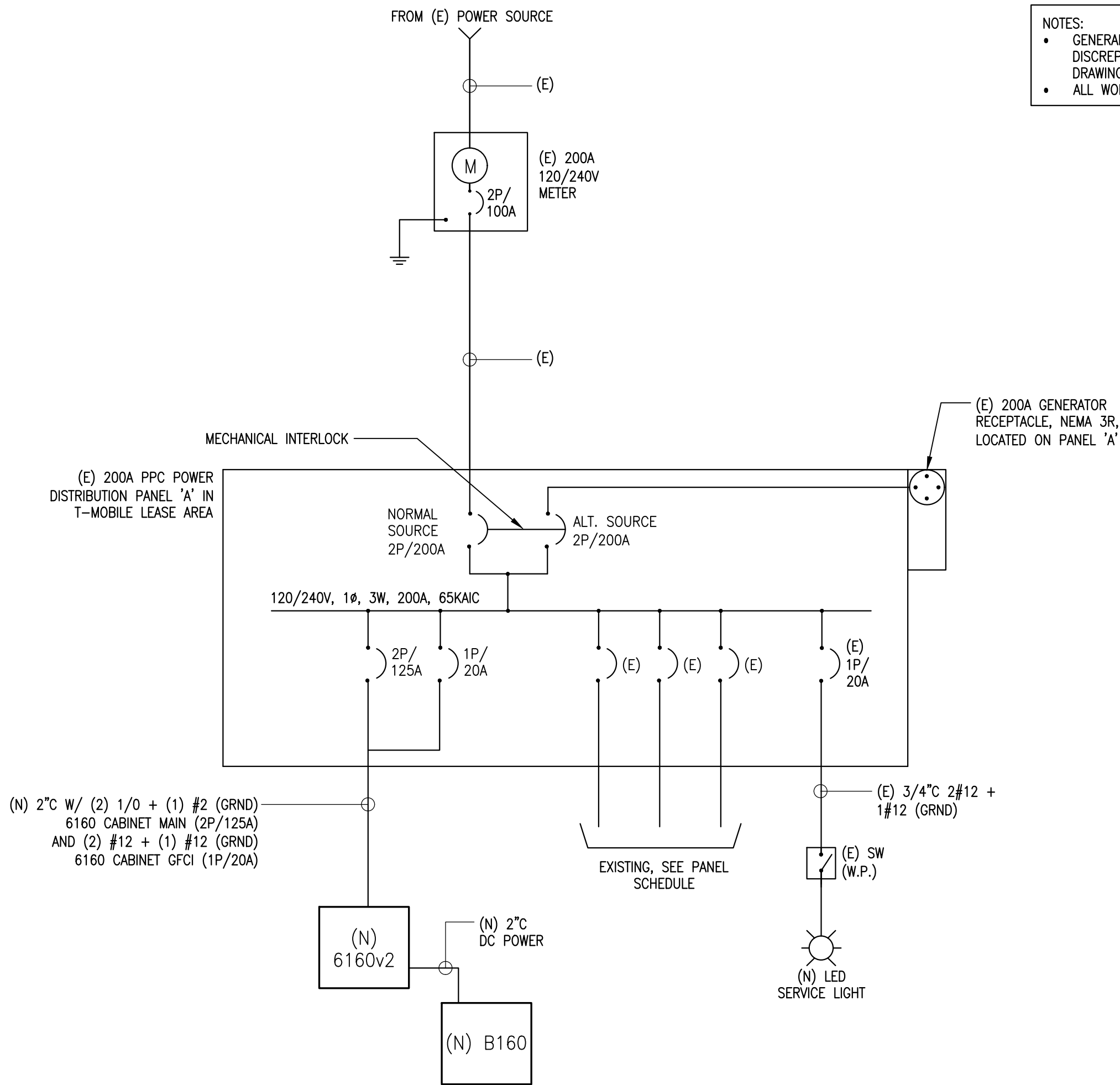
D-4

STRUCTURAL NOTES

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL LOCAL AND STATE CODE, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
2. IF APPLICABLE, CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY FOR REQUIREMENTS OF POWER SERVICE LINE TO THE METER BASE. POWER SERVICE REQUIREMENT IS COMMERCIAL AC NOMINAL 120/208 VOLT OR 120/240 VOLT, SINGLE PHASE WITH 200 AMP RATING.
3. IF APPLICABLE, CONTRACTOR SHALL FURNISH AND INSTALL ELECTRIC METER BASE AND 200A DISCONNECT SWITCH PER SITE PLAN AND DETAIL DRAWINGS. THE METER BASE SHOULD BE LOCATED IN A MANNER WHERE ACCESSIBLE BY THE LOCAL POWER COMPANY.
4. IF APPLICABLE, LOCAL POWER COMPANY SHALL PROVIDE 200 AMP ELECTRIC METER. CONTRACTOR SHALL COORDINATE INSTALLATION OF METER WITH LOCAL POWER COMPANY.
5. UNDERGROUND POWER AND TELCO SERVICE LINES SHALL BE ROUTED IN A COMMON TRENCH. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 AND CONDUIT EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL UNLESS OTHERWISE INDICATED.
6. CONDUITS INSTALLED AT PCS EQUIPMENT ENDS PRIOR TO THE EQUIPMENT INSTALLATION SHALL BE STUBBED AND CAPPED AT 6" ABOVE GRADE OR PLATFORM. IF SERVICE LINES CAN'T BE INSTALLED INITIALLY, PROVIDE NYLON PULL CORD IN CONDUITS.
12. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
13. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH-IN.
14. THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.
15. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.
16. ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
17. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING GROUNDING BUSHINGS.
18. ALL WIRE SHALL BE TYPE THWN, SOLID, ANNEALED COPPER UP TO SIZE #10 AWG (#8 AND LARGER SHALL BE CONCENTRIC STRANDED) 75 DEGREE C, (167 DEGREES F), 98% CONDUCTIVITY, MINIMUM #12.
19. ALL WIRES SHALL BE TAGGED AT ALL PULL BOXES, J-BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS, ACTION CRAFT, BRADY, OR APPROVED EQUAL.
20. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.
21. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION TO CONFLICTS. VERIFY WITH MECHANICAL CONTRACTOR AND COMPLY AS REQUIRED.
22. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN NOT HAND WRITTEN.
23. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULL BOXES, AND ALL DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.
24. THE CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS, DOCUMENT ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. SUBMIT AT SUBSTANTIAL COMPLETION.
25. ALL DISCONNECT SWITCHES AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM (NO EXCEPTIONS.)
26. ALL ELECTRICAL DEVICES AND INSTALLATIONS OF THE DEVICES SHALL COMPLY WITH (ADA) AMERICANS WITH DISABILITIES ACT AS ADOPTED BY THE APPLICABLE STATE.
28. ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OF CONDUIT AND WIRE. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED ACCORDING TO THE NAMEPLATE DATA FURNISHED ON THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND SOME EQUIPMENT CHARACTERISTICS MAY VARY FROM DESIGN AS SHOWN ON THESE DRAWINGS).
29. LOCATION OF ALL OUTLET, BOXES, ETC., AND THE TYPE OF CONNECTION (PLUG OR DIRECT) SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
30. LABEL ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHOWING T-MOBILE, NAME OF CABINET OR PANEL, NAME AND LOCATION OF SOURCE POC, AND WHAT IT SERVES. PROVIDE SPECIFICATIONS FOR LABEL MATERIAL AND FONT SIZE.
31. LABEL ALL EXISTING AND NEW CONDUITS/CABLES WITH SOURCE AND DESTINATION
32. INSTALL NFPA 704 PLACARD ON BATTERY CABINET AS REQUIRED.

SINGLE LINE DIAGRAM



- NOTES:
- GENERAL CONTRACTOR TO NOTIFY CDG IF THERE ARE ANY DISCREPANCIES BETWEEN THE ACTUAL SITE CONDITIONS AND THE DRAWINGS

• ALL WORK TO BE COMPLIED WITH NFPA 70E AND OSHA TITLE 29.

T-Mobile

PLANS PREPARED BY:

CDG

22431 ANTONIO PKWY
SUITE B160-131
RANCHO SANTA MARGARITA CA 92688
dconnell@connelldesigngroup.com
949-306-4644

CONSULTING GROUP:

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America

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FULLERTON, CA 92831

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SITE INFORMATION:

MOSS BEACH
SHERIFF'S STATION

SF71572M

500 CALIFORNIA AVE
MOSS BEACH, CA 94038

SEAL:



DATE STAMPED: 12/22/2025

SHEET TITLE:

SINGLE LINE DIAGRAM
AND PANEL SCHEDULE

SHEET NUMBER:

E-1

ELECTRICAL NOTES

SCALE:
N.T.S.

3

PANEL SCHEDULES

SCALE:
N.T.S.

2

		SYMBOL LEGEND ■ EXOTHERMIC CONNECTION ▲ MECHANICAL CONNECTION		GENERAL NOTES: 1. PLAN DRAWINGS SHOWN HEREIN ARE DIAGRAMMATIC AND DOES NOT NECESSARILY DEPICT THE EXACT EQUIPMENT QUANTITIES, LOCATION, LAYOUT AND CONFIGURATION. REFER TO ARCHITECTURAL PLANS FOR EXACT EQUIPMENT LOCATION, LAYOUT AND CONFIGURATION. 2. PLAN DRAWINGS SHOWN HEREIN DO SHOW THE NECESSARILY DEPICT ELECTRICAL REQUIREMENTS OF INDIVIDUAL EQUIPMENT AND DEVICES SUCH AS THE EQUIPMENT GROUNDING REQUIREMENTS, POWER REQUIREMENTS AND TELCO RACEWAY REQUIREMENTS. 3. REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF POWER AND TELCO POINT OF CONNECTIONS, THE DISTANCE OF THE RUN AND THE SUGGESTED CONDUIT ROUTING. FIELD VERIFY EXISTING CONDITIONS SPECIFICALLY FOR CONDUIT ROUTING PRIOR TO BID.
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4.

T-Mobile

PLANS PREPARED BY:

CDG

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SITE INFORMATION:

MOSS BEACH
SHERIFF'S STATION
SF71572M

500 CALIFORNIA AVE
MOSS BEACH, CA 94038

SEAL:

LICENSED PROFESSIONAL ENGINEER

DANIEL W. CONNELL

C 62543

EXP. 12/31/27

CIVIL

STATE OF CALIFORNIA

DATE STAMPED: 12/22/2025

SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:

E-2

SF1572 MOSS BEACH SHERIFFS
STATION

VB SITE #: US-CA-7060

T-MOBILE SITE #: SF71572



PROJECT CONTACTS:

CLIENT CONTACT:
MOHAMMAD KHAWAJA
750 PARK OF COMMERCE DR #200
BOCA RATON, FL 33487
MOHAMMAD.KHAWAJA@VERTICALBRIDGE.COM

ENGINEER CONTACT:
GPD GROUP, INC.
520 SOUTH MAIN STREET, SUITE 2531
AKRON, OH 44311
(330) 572-2100
FOR QUESTIONS PLEASE EMAIL:
GPDMODS@GPDGROUP.COM

QUALIFIED ENGINEERING SERVICES ARE AVAILABLE
FROM GPD TO ASSIST CONTRACTORS IN CLASS IV
CONSTRUCTION PLAN REVIEWS. FOR REQUESTING
QUALIFIED ENGINEERING SERVICES PLEASE CONTACT
GPD AT GPDMODS@GPDGROUP.COM.

SHEET INDEX:

T-01: TITLE SHEET
MI-01: MODIFICATION INSPECTION CHECKLIST
N-01: PROJECT NOTES
S-01: TOWER ELEVATION & MODIFICATIO SCHEDULE
S-02: MODIFICATION DETAILS & SECTIONS
S-03: ADDITIONAL DETAILS & SECTIONS

TOWER INFORMATION:

TOWER DOCUMENTS: EEI/PROJ. #: 14532
TOWER HEIGHT/TYPE: 27'-10" MONOPOLE TOWER
TOWER LOCATION:
LAT.: 37° 31' 39.74"
LONG.: -122° 30' 47.01"
STREET ADDRESS: 500 CALIFORNIA AVE
CITY, STATE ZIP: MOSS BEACH, CA 94038
COUNTY: SAN MATEO
REFERENCED ANALYSIS: GPD/PROJ #: 2025740.CA7060.01
ANALYSIS DATE: 6/19/2025

CODE COMPLIANCE:

GOVERNING CODES: TIA-222-H, 2022 CALIFORNIA BUILDING CODE, &
2021 IBC
WIND SPEEDS: 92 MPH 3 SECOND GUST

ICE THICKNESS: N/A
RISK CATEGORY: II
EXPOSURE CATEGORY: D
TOPO CATEGORY: 1

SEISMIC CRITERIA:
SITE CLASS: D
RESPONSE COEFFICIENT (R): 1.5
1-SECOND SPECTRAL RESPONSE ACCELERATION (S₁): 0.880
SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (S_s): 2.149



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2102



SF1572 MOSS BEACH SHERIFFS
STATION
VB SITE #: US-CA-7060

DESIGN DRAWINGS
PREPARED FOR:



T-MOBILE SITE #: SF71572

REV.	DATE	DESCRIPTION									
		INITIAL RELEASE									
0	10/31/25										

SF1572 MOSS BEACH SHERIFFS STATION
500 CALIFORNIA AVE
MOSS BEACH, CA 94038

TITLE SHEET

ISSUED FOR:	
PERMIT	10/31/2025
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
NM	RV
PROJECT MANAGER	APPROVED BY
BF	JNK

JOB NO.
2025740.00.CA7060.02

T-01

MODIFICATION INSPECTION NOTES

GENERAL

1. THE MI IS AN ON-SITE VISUAL AND HANDS-ON INSPECTION OF TOWER MODIFICATIONS INCLUDING A REVIEW OF CONSTRUCTION REPORTS AND ADDITIONAL PERTINENT DOCUMENTATION PROVIDED BY THE GENERAL CONTRACTOR (GC), AS WELL AS ANY INSPECTION DOCUMENTS PROVIDED BY 3RD PARTY INSPECTORS. THE MI IS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE MODIFICATION DRAWINGS; IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS; AND AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
2. NO DOCUMENT, CODE OR POLICY CAN ANTICIPATE EVERY SITUATION THAT MAY ARISE. ACCORDINGLY, THIS CHECKLIST IS INTENDED TO SERVE AS A SOURCE OF GUIDING PRINCIPLES IN ESTABLISHING GUIDELINES FOR MODIFICATION INSPECTION.
3. THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, AND THE MI INSPECTOR DOES NOT TAKE OWNERSHIP OF THE MODIFICATION DESIGN. THE MI INSPECTOR SHALL INSPECT AND NOTE CONFORMANCE/NONCONFORMANCE AND PROVIDE TO THE TOWER/STRUCTURE OWNER AND EOR FOR EVALUATION.
4. TO ENSURE THAT THE REQUIREMENTS OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO OR PAYMENT IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. CONTACT LISTED ON THE TITLE SHEET SHALL BE CONTACTED IF SPECIFIC INSPECTOR CONTACT INFORMATION IS NOT KNOWN.

FAILING INSPECTION CORRECTIONS

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION INSPECTION ("FAILED MODIFICATION INSPECTION"), THE GC SHALL WORK WITH MI INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL MODIFICATION DRAWINGS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION.
- OR, WITH TOWER OWNER'S APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

SERVICE LEVEL COMMITMENT

1. THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- THE GC SHALL PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY MINOR DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.
- IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MODIFICATION INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.

REQUIRED PHOTOS

1. BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION AND INSPECTION
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
 - FINAL INFILD CONDITION
- ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DETAILS OF THE MODIFICATIONS.

2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

MODIFICATION INSPECTION CHECKLIST		
REQUIRED	REPORT ITEM	BRIEF DESCRIPTION
PRE-CONSTRUCTION		
X	MI CHECKLIST DRAWING	THIS CHECKLIST SERVES AS A GUIDELINE FOR THE REQUIRED CONSTRUCTION DOCUMENTS AND INSPECTIONS FOR THIS MODIFICATION
X	EOR APPROVED SHOP DRAWINGS	PRIOR TO FABRICATION, THE CONTRACTOR SHALL PROVIDE DETAILED ASSEMBLY DRAWINGS AND/OR SHOP DRAWINGS TO THE EOR FOR APPROVAL.
X	FABRICATION INSPECTION	A LETTER FROM THE FABRICATOR STATING THAT ALL FABRICATION (I.E. DRILLING, CUTTING, WELDING, SHEARING, MILLING, GALVANIZING, ETC) HAS BEEN DONE ACCORDING TO INDUSTRY STANDARDS AND ALL APPLICABLE ANSI/ASTM STANDARDS.
X	FABRICATOR CERTIFIED WELD INSPECTION	A CWI SHALL INSPECT ALL FABRICATION WELDS IN ACCORDANCE WITH AWS D1.1 AND A REPORT DETAILING THE RESULTS SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	MATERIAL TEST REPORTS (MTR)	MATERIAL TEST REPORTS SHALL BE PROVIDED FOR ALL MATERIAL USED. MTR'S SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	FABRICATOR NDE INSPECTION REPORT	CRITICAL SHOP WELDS THAT REQUIRE ADDITIONAL TESTING ARE NOTED WITHIN THE MODIFICATION DRAWINGS. A CERTIFIED NDT INSPECTOR SHALL PERFORM NON-DESTRUCTIVE EXAMINATION ON ALL PJP, CJP, AND FILLET WELDS >5/16" IN ACCORDANCE WITH AWS D1.1 AND A REPORT DETAILING THE RESULTS SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
NA	NDE OF MONOPOLE BASE PLATE	A NDE OF THE POLE TO BASE PLATE CONNECTION IS REQUIRED AND A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	PACKING SLIPS	PACKING/SHIPPING LIST FOR ALL MATERIAL USED DURING CONSTRUCTION OF THE MODIFICATION SHALL BE PROVIDED.
DURING CONSTRUCTION		
NA	PRE-POUR REBAR INSPECTIONS	A 3 RD PARTY VISUAL OBSERVATION OF THE EXCAVATION AND REBAR SHALL BE PERFORMED BEFORE PLACING THE CONCRETE. A WRITTEN REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
NA	POST-INSTALLED REBAR AND/OR DOWEL INSPECTIONS	PHOTOGRAPHIC DOCUMENTATION OF DRILL HOLE SIZES AND DEPTHS SHALL BE RECORDED BEFORE SETTING THE POST INSTALLED REBAR AND DOWELS WITH EPOXY/GROUT.
NA	CONCRETE COMP. STRENGTH & SLUMP TEST	THE CONCRETE MIX DESIGN, SLUMP TEST, AND COMPRESSIVE STRENGTH TESTS SHALL BE PROVIDED AS PART OF THE MI REPORT.
NA	EARTHWORK: LIFT & DENSITY REPORT	REPORT DETAILING SOIL COMPACTION TEST RESULTS TO BE INCLUDED IN THE MI REPORT.
NA	MICROPILE/ROCK ANCHOR	MICROPILES AND ROCK ANCHORS SHALL BE INSPECTED BY A 3 RD PARTY. INSPECTION SHALL VERIFY ANCHOR SIZE, STEEL GRADE, AND HOLE DEPTHS. PHOTOGRAPHIC DOCUMENTATION OF ALL MEASUREMENTS ALONG WITH THE PULL TEST RESULTS SHALL BE INCLUDED IN THE MI REPORT.
NA	HELICAL ANCHOR	HELICAL INSTALLER SHALL SUBMIT FINAL SEALED HELICALS DESIGN, TORQUE LOGS, AND FINAL LOAD TEST RESULTS TO BE INCLUDED IN THE MODIFICATION INSPECTION REPORT.
NA	POST-INSTALLED ANCHOR ROD VERIFICATION	POST INSTALLED ANCHOR ROD VERIFICATION SHALL BE PERFORMED AND SHALL INCLUDE PHOTO VERIFICATION OF HOLE DEPTH, HOLE CLEANOUT AND ROUGHENING, AND EPOXY LABELING. REPORT SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	AERIAL NDE INSPECTION REPORT	A CERTIFIED NDT INSPECTOR SHALL PERFORM NON-DESTRUCTIVE EXAMINATION ON ALL PJP, CJP, AND FILLET WELDS >5/16" IN ACCORDANCE WITH AWS D1.1 AND A REPORT DETAILING THE RESULTS SHALL BE PROVIDED TO THE MI INSPECTOR FOR INCLUSION IN THE MI REPORT.
X	3 RD PARTY FIELD CERTIFIED WELD INSPECTION	A CWI SHALL CONDUCT A VISUAL INSPECTION OF ALL FIELD WELDS IN ACCORDANCE WITH AWS D1.1. CRITICAL WELDS THAT REQUIRE ADDITIONAL TESTING ARE NOTED IN THE MODIFICATION DRAWINGS.
X	ON-SITE COLD GALVANIZING VERIFICATION	THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN AND PHOTOGRAPHIC DOCUMENTATION TO THE MI INSPECTOR VERIFYING THAT ANY ON-SITE COLD GALVANIZING WAS APPLIED PER MANUFACTURER SPECIFICATIONS.
X	TENSION TWIST & PLUMB DELIVERABLES	THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN AND PHOTOGRAPHIC DOCUMENTATION TO THE MI INSPECTOR VERIFYING THE TOWER TWIST AND PLUMB CONDITION AS WELL AS THE WIRE TENSIONS (AS REQUIRED). REPORT SHALL INCLUDE PRE-TENSION, PLUMB & TWIST RESULTS, POST-TENSION REPORT, POST PLUMB AND TWIST REPORT, AND PHOTOS OF THE TENSION GAUGES FOR ALL GUY WIRES.
X	GC AS-BUILT DRAWINGS	THE GENERAL CONTRACTOR SHALL SUBMIT A LEGIBLE COPY OF THE ORIGINAL DESIGN DRAWINGS EITHER STATING "INSTALLED AS DESIGNED" OR NOTING ANY CHANGES THAT WERE REQUIRED AND APPROVED BY THE ENGINEER OF RECORD. EOR/RFI FORMS APPROVING ALL CHANGES SHALL BE SUBMITTED.
X	BOLT PRE-TENSION VERIFICATION	TURN-OF-THE NUT METHOD IS THE DEFAULT METHOD FOR PRE-TENSIONING BOLTS. MATCH-MARKINGS SHALL BE PRESENT ON EACH FASTENER FOR INSPECTION PURPOSES AND SHALL BE APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. ALTERNATIVE PRE-TENSIONING METHODS ARE NOT ALLOWED WITHOUT PRIOR EOR CONSENT.
POST-CONSTRUCTION		
X	CONSTRUCTION COMPLIANCE LETTER	A LETTER FROM THE GENERAL CONTRACTOR STATING THAT THE WORKMANSHIP WAS PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THESE MODIFICATION DRAWINGS, INCLUDING LISTING ADDITIONAL PARTIES TO THE MODIFICATION PROCESS.
NA	POST-INSTALLED ANCHOR ROD PULL TESTS	POST-INSTALLED ANCHOR RODS SHALL BE TESTED BY A PULL TEST INSPECTOR AND A REPORT SHALL BE PROVIDED INDICATING TESTING RESULTS.
X	PHOTOGRAPHS	PHOTOGRAPHS SHALL BE SUBMITTED TO THE MI INSPECTOR. PHOTOS SHALL DOCUMENT ALL PHASES OF THE CONSTRUCTION. THE PHOTOS SHALL BE ORGANIZED IN A MANNER THAT EASILY IDENTIFIES THE EXACT LOCATION OF THE PHOTO.
NA	FOUNDATION SEALER	PHOTOGRAPHIC DOCUMENTATION OF THE FOUNDATION SEALING SHALL BE INCLUDED IN THE MI REPORT.
NA	BOLT HOLE INSTALLATION VERIFICATION REPORT	THE MI INSPECTOR SHALL VERIFY THE INSTALLATION AND TIGHTNESS OF 10% OF ALL NON PRE-TENSIONED BOLTS INSTALLED AS PART OF THE MODIFICATION. THE MI INSPECTOR SHALL LOOSEN THE NUT AND VERIFY THE BOLT HOLE SIZE AND CONDITION. THE MI REPORT SHALL CONTAIN THE COMPLETED BOLT INSTALLATION VERIFICATION REPORT, INCLUDING THE SUPPORTING PHOTOGRAPHS.
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)	THE MI INSPECTOR SHALL OBSERVE AND REPORT ANY DISCREPANCIES BETWEEN THE CONTRACTOR'S REDLINE DRAWING AND THE ACTUAL COMPLETED INSTALLATION.
*THE MI CHECKLIST SHALL BE REVIEWED PRIOR TO THE START OF CONSTRUCTION. ALL PARTIES TO THE MODIFICATION SHALL UNDERSTAND ALL REQUIREMENTS AND INSPECTION/DOCUMENTATION THAT IS APPLICABLE TO THE SCOPE OF WORK THEY ARE PERFORMING. ERRORS ON THE MI CHECKLIST SHALL BE BROUGHT TO THE ATTENTION OF THE TOWER/STRUCTURE OWNER AND EOR AS SOON AS POSSIBLE.		

*THE MI CHECKLIST SHALL BE REVIEWED PRIOR TO THE START OF CONSTRUCTION. ALL PARTIES TO THE MODIFICATION SHALL UNDERSTAND ALL REQUIREMENTS AND INSPECTION/DOCUMENTATION THAT IS APPLICABLE TO THE SCOPE OF WORK THEY ARE PERFORMING. ERRORS ON THE MI CHECKLIST SHALL BE BROUGHT TO THE ATTENTION OF THE TOWER/STRUCTURE OWNER AND EOR AS SOON AS POSSIBLE.



20 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2102

verticalbridge

SF1572 MOSS BEACH SHERIFFS
STATION
VB SITE #: US-CA-7060

DESIGN DRAWINGS
PREPARED FOR:

T-Mobile®

T-MOBILE SITE #: SF71572

[illegible]

SF1572 MOSS BEACH SHERIFFS STATION
500 CALIFORNIA AVE
MOSS BEACH, CA 94038

MODIFICATION INSPECTION CHECKLIST

ISSUED FOR:	
PERMIT	10/31/2025
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
NM	RV
PROJECT MANAGER	APPROVED BY
BF	JNK

JOB NO.

2025740.00.CA7060.02

MI-01



10/31/25

GENERAL NOTES

1.

THIS DESIGN IS IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF TIA/EIA-222, AWS, ANSI TIA-322, AND AISC. MATERIALS, FABRICATION, INSTALLATION, AND ALL OTHER SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES AND THE CONTRACT SPECIFICATIONS.
2.

THIS DESIGN ASSUMES THE TOWER AND FOUNDATIONS HAVE BEEN WELL MAINTAINED, ARE IN GOOD CONDITION, AND ARE WITHOUT DEFECT. BENT MEMBERS, CORRODED MEMBERS, LOOSE BOLTS, CRACKED WELDS AND OTHER MEMBER DEFECTS HAVE NOT BEEN CONSIDERED. THE TOWER IS ASSUMED TO BE PLUMB AND THE SITE IS ASSUMED TO BE LEVEL. THIS DESIGN IS BEING PROVIDED WITHOUT THE BENEFIT OF A CONDITION ASSESSMENT BY GPD.
3.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING; ANY PROBLEMS WITH ACCESS, INTERFERENCE, ETC. SHALL BE RESOLVED PRIOR TO MOBILIZATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND NOTE ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS OR THAT INTERFERE WITH THE CONTINUOUS INSTALLATION OF THE MODIFICATIONS. CONTRACTOR SHALL NOTE ALL ATTACHMENT POINTS, ANTENNAS, MOUNTS, COAX, LIGHTING, CLIMBING SUPPORTS, STEP BOLTS, PORT HOLES, AND ANY OTHER APPURTENANCES IN THE REGION OF THE MODIFICATIONS. GPD SHALL BE CONTACTED IMMEDIATELY TO EVALUATE THE SIGNIFICANCE OF ANY DEVIATION PRIOR TO ORDERING MATERIAL.
4.

ALL MATERIAL SPECIFIED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZES AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR DETERMINING IF SUBSTITUTE IS SUITABLE FOR USE AND MEETS THE ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER.
5.

CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MODIFICATION INSPECTOR AT THE TIME OF AWARD TO COORDINATE AN INSPECTION SCHEDULE AND ENSURE PROPER DOCUMENTATION IS RETAINED THROUGHOUT THE PROJECT. REFER TO SHEET MI-01 FOR MODIFICATION INSPECTION CHECKLIST.
6.

SPECIAL INSPECTIONS: UNLESS OTHERWISE SPECIFIED WITHIN THE PLANS OR REQUIRED BY THE BUILDING OFFICIAL, SPECIAL INSPECTIONS AND TESTS ARE NOT REQUIRED FOR GROUP U OCCUPANCIES, BUT NOT LIMITED TO: THOSE LISTED IN SECTION 312.1 (IBC SECTION 1704.2, EXCEPTION 2). CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING IF ANY SPECIAL INSPECTIONS ARE REQUIRED BY THE JURISDICTION HAVING AUTHORITY. IF REQUIRED BY THE JURISDICTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND SCHEDULING OF THE SPECIAL INSPECTIONS WITH THE ENGINEER OF RECORD. IN THOSE CASES, SPECIAL INSPECTIONS MUST BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL.
7.

INSTALLATION OF THE PROPOSED LOADING IS BY OTHERS AND IS BEYOND THE SCOPE OF THESE DRAWINGS.
8.

ALL CONTRACTORS AND LOWER TIER CONTRACTORS MUST ACKNOWLEDGE IN WRITING TO TOWER OWNER AND GPD THAT THEY HAVE OBTAINED, UNDERSTAND, AND WILL FOLLOW TOWER OWNER STANDARDS OF PRACTICE, CONSTRUCTION GUIDELINES, ALL SITE AND TOWER SAFETY PROCEDURES, ALL PRODUCT LIMITATIONS AND INSTALLATION PROCEDURES USED ON SITE, AND PROPOSED MODIFICATIONS DESCRIBED. RECEIPT OF ACKNOWLEDGMENT MUST OCCUR PRIOR TO BEGINNING CONSTRUCTION OR CLIMBING. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE THIS DOCUMENTATION FOR TOWER OWNER AND GPD ON COMPANY LETTERHEAD AND THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN THIS DOCUMENTATION FROM LOWER TIER SUBCONTRACTORS (ON SUBCONTRACTOR LETTERHEAD) AND DELIVER IT TO TOWER OWNER AND GPD.
9.

IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE. THIS INCLUDES PROVIDING THE NECESSARY CERTIFICATIONS TO THE TOWER OWNER.
10.

THESE DRAWINGS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
11.

THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THEIR WORK FORCE, THE WORK AREA, ADJACENT AREA, AND ANY PROPERTY OCCUPANTS WHO MAY BE AFFECTED BY THE WORK UNDER CONTRACT. THE CONTRACTOR SHALL REVIEW AND ABIDE BY ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, AND LOCAL SAFETY GUIDELINES. ALL TOWER WORKERS SHALL UTILIZE APPROPRIATE FALL PROTECTION AND SAFETY EQUIPMENT THAT IS UP-TO-DATE AND INSPECTED PER OSHA AND INDUSTRY GUIDELINES. ALL WORKERS SHALL BE TRAINED AND MONITORED TO ENSURE SAFE WORKING PRACTICES ARE MAINTAINED.
12.

CONTRACTOR IS RESPONSIBLE FOR TEMPORARILY REMOVING ALL COAX, T-BRACKETS, ANTENNA MOUNTS, AND ANY OTHER APPURTENANCE THAT MAY INTERFERE WITH THE TOWER MODIFICATIONS. ALL TOWER APPURTENANCES MUST BE REPLACED AND/OR RESTORED TO ITS ORIGINAL LOCATION. SOME ATTACHMENTS MAY REQUIRE CUSTOM MODIFICATIONS TO PROPERLY FIT THE MODIFIED REGION OF THE STRUCTURE. THESE CUSTOMIZATIONS ARE DESIGNED BY OTHERS AND MUST BE APPROVED BY THE ENGINEER PRIOR TO REMOVING SUCH ATTACHMENTS. ANY CARRIER DOWNTIME MUST BE COORDINATED WITH THE TOWER OWNER IN WRITING.
13.

CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY OR LEASE AREA AND APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK IS WITHIN THESE BOUNDARIES. CONTRACTOR SHALL EMPLOY A SURVEYOR AS REQUIRED. ANY WORK OUTSIDE THESE BOUNDARIES SHALL BE APPROVED IN WRITING BY THE LAND OWNER PRIOR TO MOBILIZATION. CONSTRUCTION STAKING AND BOUNDARY MARKING IS THE RESPONSIBILITY OF THE CONTRACTOR.
14.

THE STRUCTURAL INTEGRITY OF THIS DESIGN EXTENDS TO THE COMPLETE CONDITION ONLY. THE CONTRACTOR MUST BE COGNIZANT THAT THE REMOVAL OF ANY STRUCTURAL COMPONENT HAS THE POTENTIAL TO CAUSE THE PARTIAL OR COMPLETE COLLAPSE OF THE STRUCTURE. ALL NECESSARY PRECAUTIONS MUST BE TAKEN TO ENSURE THE STRUCTURAL INTEGRITY, INCLUDING, BUT NOT LIMITED TO, ENGINEERING ASSESSMENT OF CONSTRUCTION STRESSES WITH INSTALLATION MAXIMUM WIND SPEED AND/OR TEMPORARY BRACING AND SHORING.
15.

WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 10-MPH). CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY LOCAL TOWER SHORING, TEMPORARY GLOBAL TOWER SHORING, AND ALL SHORING OF SURROUNDING BUILDINGS, PADS, AND OTHER OUTDOOR SITE OBSTRUCTIONS. ALL SHORING, TEMPORARY BRACING, AND TEMPORARY SUPPORTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
16.

MODIFICATIONS SHOWN SHALL BE INSTALLED ON ALL THREE (3) TOWER LEGS/FACES UNLESS NOTED OTHERWISE.
17.

FAA/FCC FILING AND LIGHTING MAY BE REQUIRED. ALL GOVERNMENTAL REGULATORY DETERMINATIONS AND FILINGS BY OTHERS, NOT GPD.
18.

VERIFY IF THIS STRUCTURE IS AN FM TOWER AND TAKE NECESSARY ACTIONS TO PROVIDE SAFE WORKING CONDITIONS INCLUDING, BUT NOT LIMITED TO, HAVING FM SIGNAL TURNED OFF. CONTRACTOR SHALL HAVE PROPER RADMAN FOR NOTIFICATION OF EXCESSIVE RF EXPOSURE FOR ALL INDIVIDUALS WORKING ON SITE IF FM ANTENNAS ARE PRESENT.
19.

ALL MANUFACTURERS HARDWARE AND ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED EXACTLY. DEVIATION FROM THE INSTRUCTIONS IS UNACCEPTABLE AND REQUIRES WRITTEN APPROVAL FROM ENGINEER.
20.

DO NOT SCALE DRAWINGS.
21.

THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL ASSOCIATED HARDWARE SHALL NOT BE IMPEDED OR MODIFIED WITHOUT THE WRITTEN CONSENT OF GPD.
22.

ANY WORK PERFORMED WITHOUT A PREFABRICATION MAPPING IS DONE AT THE RISK OF THE GC AND/OR FABRICATOR.
23.

IMPROPER FIT-UP OF NEW BOLTED HARDWARE DUE TO OVERSIZED, DOUBLE-PUNCHED, OR SLOTTED HOLES FOUND ON THE EXISTING STRUCTURE SHALL BE REPORTED TO GPD AND THE TOWER OWNER IMMEDIATELY. INSTALLATION OF SUCH HARDWARE WILL NOT BE ACCEPTABLE AND ALL COSTS ASSOCIATED WITH REMEDYING THE INSTALLATION WILL BE THE RESPONSIBILITY OF THE GC.

STRUCTURAL STEEL NOTES

1.

ALL NEW STEEL SHALL BE HOT-DIPPED GALVANIZED PER ASTM A123, ASTM A153/A153M, OR ASTM A653 G90, AS APPLICABLE FOR FULL WEATHER PROTECTION. FOR HIGH STRENGTH STEEL FASTENERS WHERE HOT-DIPPED GALVANIZING IS NOT PERMITTED MAGNI 565 COATING (OR ENGINEER APPROVED EQUIVALENT) SHALL BE USED. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING TOWER STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
2.

ALL EXPOSED STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, DAMAGED MEMBERS, FIELD WELDS, FIELD CUT MEMBERS, FIELD DRILLED HOLES, AND SHAFT INTERIORS (WHERE APPLICABLE), SHALL BE SOLVENT CLEANED AND HAVE TWO (2) COATS OF BRUSHED ON ZRC ZINC RICH COLD GALVANIZING PAINT APPLIED AND SHALL BE PAINTED TO MATCH THE TOWER FINISH (WHERE APPLICABLE). PHOTO DOCUMENTATION IS REQUIRED TO BE SUBMITTED TO THE MODIFICATION INSPECTOR.
3.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE LISTED REQUIREMENTS U.N.O. IN THESE DRAWINGS:

MONOPOLES:

- STRUCTURAL SHAPES AND PLATE:

ASTM A572 GRADE 65 (Fy=65 KSI)
- WELDING ELECTRODES, SMAW:

E80XX
- WELDING ELECTRODES, FCAW:

E8XT-XX

SELF-SUPPORT AND GUYED TOWERS

- STRUCTURAL SHAPES AND PLATE:

ASTM A572 GRADE 50 (Fy=50 KSI)
- GUY WIRES:

ASTM A475 GRADE EHS
- BRIDGE STRAND:

ASTM A586 GRADE 1
- WELDING ELECTRODES, SMAW:

E70XX
- WELDING ELECTRODES, FCAW:

E7XT-XX

ALL TOWER TYPES:

- STEEL ANGLE (BRACING):

ASTM A572 GRADE 50 (Fy=50 KSI)
- STEEL ANGLE (LEGS):

ASTM A572 GRADE 50 (Fy=50 KSI)
- SOLID ROUND:

ASTM A36 (Fy=36 KSI)
- PIPE (ROUND):

ASTM A53 GRADE B (Fy=35 KSI)
- HSS TUBE (ROUND):

ASTM A500 GRADE C (Fy=50 KSI)
- HSS TUBE (SQUARE):

ASTM A500 GRADE C (Fy=50 KSI)
- ANCHOR RODS:

ASTM A193 GRADE B7
- BOLTS:

ASTM A325 TYPE 1
- U-BOLTS:

ASTM A307 GRADE A
- NUTS:

ASTM A563 GRADE DH
- NUTS (ANCHOR RODS):

ASTM A194 GRADE 2H
- WASHERS (AS REQUIRED):

ASTM F436 TYPE 1
- LOCKING DEVICES:

PAL-NUT OR SPLIT WASHER

4.

ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF TIA/EIA-222 REQUIREMENTS, U.N.O..
5.

ALL BOLTS, INCLUDING U-BOLTS, SHALL BE TIGHTENED IN ACCORDANCE WITH AISC "SNUG TIGHT" REQUIREMENTS, U.N.O..
6.

ALL U-BOLTS SPECIFIED SHALL MEET THE REQUIREMENTS OF ASME B18.31.5-2011 BENT BOLTS.
7.

ALL NEW BOLT ASSEMBLIES SHALL BE OF SUFFICIENT LENGTH TO ENSURE THE END OF THE BOLT IS FLUSH WITH, OR PROTRUDES BEYOND, THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETE.
8.

STRUCTURAL STEEL SHOP DRAWINGS SHALL BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
9.

UNLESS NOTED OTHERWISE, ALL NEW MEMBERS SHALL MAINTAIN THE EXISTING MEMBER WORK LINES AND NOT INTRODUCE ECCENTRICITIES INTO THE STRUCTURE.
10.

WELDING OF ANY KIND IS NOT PERMITTED ON SITE UNLESS SPECIFIED WITHIN THESE DRAWINGS. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING OR OPEN FLAME IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.

WELD NOTES

1.

ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE-STEEL".
2.

CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE MODIFICATION INSPECTOR UPON COMPLETION OF THE PROJECT.
3.

WELDING CERTIFICATES MUST BE PROVIDED TO CWI AND GPD PRIOR TO WELDING CONTRACTOR BEGINNING WORK ON SITE. CERTIFICATE WILL BE ASKED FOR AS PART OF INSPECTION PROCESS. ALL WELDING SHOULD BE PERFORMED BY AN AWS QUALIFIED WELDER WHO HAS EXPERIENCE WITH GALVANIZED SURFACES AND IN ACCORDANCE WITH ANSI/AWS D1.1 AND ANSI Z 49.1 OR LATEST EDITIONS.
4.

INSTALL 3000° (NFPA 701) FIRE BLANKET AROUND ALL COAX AT AND BELOW EACH WELDING PROCEDURE AND ELEVATION. COAX IS FLAMMABLE AND CAN CATCH FIRE IF PROPER PRECAUTIONS ARE NOT MADE TO SHIELD COAX FROM ALL WELDING PROCEDURES. IN ADDITION, COAX SHALL BE PUSHED AWAY FROM TOWER FACE WHERE WELDING IS BEING PERFORMED.
5.

CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING ON A GALVANIZED SURFACE. ADDITIONAL SPLATTER AND SPARKS SHALL BE ANTICIPATED GIVEN THE PREVIOUSLY GALV. SURFACE. IF THE WELD MATERIAL IS CONTAMINATED WITH ZINC IT DOES NOT PROVIDE A STRUCTURAL WELD. FUMES CREATED FROM WELDING ON A PREVIOUSLY GALV. SURFACE CAN BE HAZARDOUS. PRIOR TO WELDING, ALL SURFACES SHALL BE PROPERLY GROUND TO REMOVE GALVANIZING, SCALE, SLAG, RUST OR ANY OTHER MATERIAL TO PREVENT PROPER WELDING.
6.

ALL FIELD WELDS SHALL BE TOUCHED UP WITH TWO COATS OF COLD GALVANIZING PAINT (ZRC OR APPROVED EQUIVALENT), INCLUDING THE INTERIOR OF MONOPOLE SHAFTS, WHERE ACCESS PERMITS, IN ANY AREAS AFFECTED BY ANY WELDING. PHOTO DOCUMENTATION IS REQUIRED TO BE SUBMITTED TO THE MODIFICATION INSPECTOR.
7.

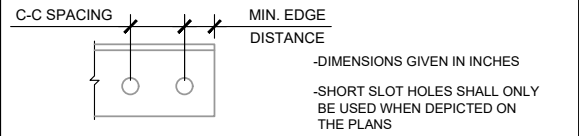
THE CONTRACTOR SHALL HAVE A FIRE PREVENTION PLAN IN PLACE PRIOR TO ANY ON-SITE WELDING OPERATIONS WITH ADEQUATE FIRE PREVENTION EQUIPMENT AVAILABLE IN ACCORDANCE WITH OSHA 1926 AND NFPA REQUIREMENTS.
8.

CLEAN OUT ALL DEBRIS THROUGHOUT TOWER AND STRUCTURE BASE PRIOR TO WELDING.
9.

THE CONTRACTOR SHALL TAKE COOLING EFFECTS OF THE WELDED MATERIAL INTO CONSIDERATION (I.E. EXPANSION OF HOT MATERIAL AND CONTRACTION OF COOLED MATERIAL).

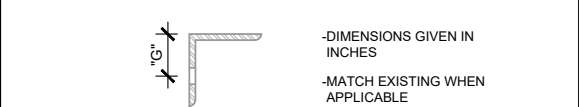
BOLT SCHEDULE

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	C-C SPACING
1/2	9/16	9/16x11/16	7/8	1-1/2
5/8	11/16	11/16x7/8	1-1/8	1-7/8
3/4	13/16	13/16x1	1-1/4	2-1/4
7/8	15/16	15/16x1-1/8	1-1/2	2-5/8
1	1-1/8	1-1/8x1-5/16	1-3/4	3

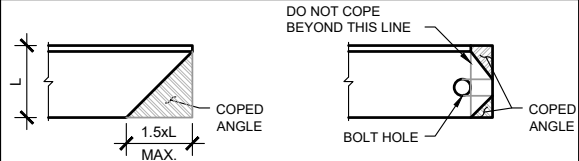


WORKABLE GAGES

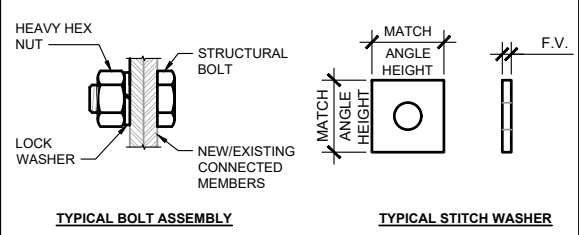
LEG	6	5	4	3-1/2	3	2-1/2	2	1-3/4
G	3-1/2	3	2-1/2	2	1-3/4	1-3/8	1-1/8	1



ALLOWABLE ANGLE COPE



BOLTING DETAILS



1.

ALL DIMENSIONS REPRESENTED IN THESE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2.

THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AISC MINIMUM REQUIREMENTS.
3.

AS AN ALTERNATIVE TO USING A LOCK WASHER PAL-NUTS CAN BE INSTALLED ABOVE THE HEX NUT. ALL BOLTS MUST HAVE LOCKING DEVICES INSTALLED AS PART OF THE ASSEMBLY.
4.

ADDITIONAL HARDENED FLAT WASHERS MAY BE REQUIRED IN CASES WHERE OVERSIZED OR SLOTTED HOLES ARE PRESENT. EXISTING CONDITIONS SHALL BE APPROVED BY THE EOR.



10/31/25



520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2102



SF1572 MOSS BEACH SHERIFFS STATION
VB SITE #: US-CA-7060

DESIGN DRAWINGS
PREPARED FOR:



T-MOBILE SITE #: SF71572

REV.	DATE	DESCRIPTION
0	10/31/25	INITIAL RELEASE

SF1572 MOSS BEACH SHERIFFS STATION

500 CALIFORNIA AVE
MOSS BEACH, CA 94038

PROJECT NOTES

ISSUED FOR:	
PERMIT	10/31/2025
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
NM	RV
PROJECT MANAGER	APPROVED BY
BF	JNK

JOB NO.
2025740.00.CA7060.02

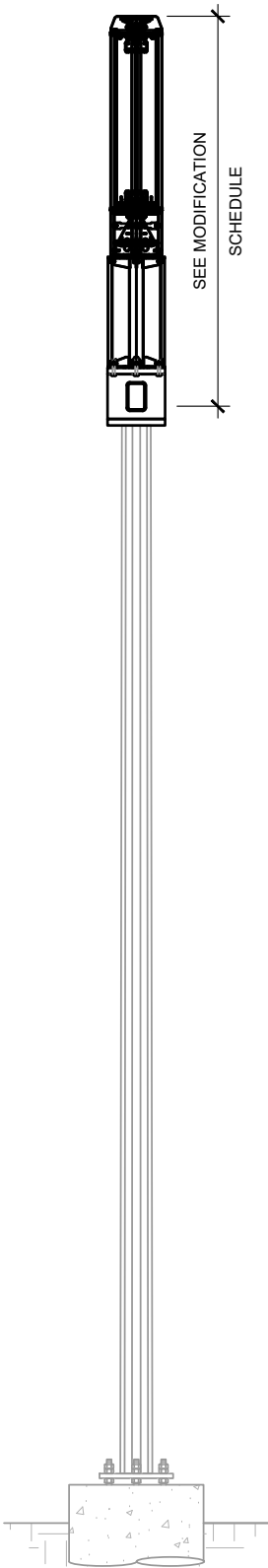
N-01

ELEV: 38'-0"±
TOP OF TOWER

ELEV: 28'-10"±
FLANGE

ELEV: 27'-4"±
FLANGE

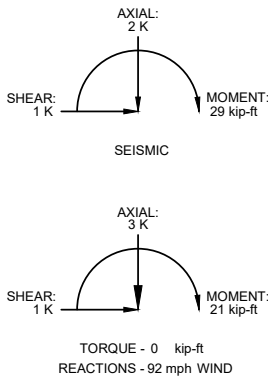
ELEV: 0'-0"±
TOWER BASE



ELEV: 36'-0"±
WITHIN CANISTER

ELEV: 32'-0"±
WITHIN CANISTER

NOTE: FOR FULL ANTENNA
CONFIGURATION SEE ASSOCIATED
PASSING ANALYSIS.



TOWER ELEVATION
N.T.S.

POLE SPECIFICATIONS	
POLE SHAPE:	12-SIDED & ROUND
TAPER:	N/A
SHAFT STEEL:	ASTM A572 GRADE 50, A500-42, & A53-B-35
BASE PLATE STEEL:	ASTM A572 GRADE 50
ANCHOR RODS:	1-1/2"Ø ASTM F1554 GRADE 55

PROPOSED POLE SECTION DATA					
SHAFT SECTION	SECTION LENGTH (FT)	THICKNESS (IN)	LAP SPLICE (IN)	DIAMETER	
				@ TOP	@ BOTTOM
1	6.27	0.2500		3.00	3.00
2	2.89	0.3150		4.50	4.50
3	1.50	0.3750		18.00	18.00
4	27.33	0.1875		9.00	10.00
NOTE: DIMENSIONS DO NOT INCLUDE GALVANIZING TOLERANCES.					

MODIFICATION SCHEDULE					
MEMBER TYPE	ELEVATION	EXISTING MEMBER	NEW MEMBER	REFERENCE DETAIL/SHEET	NOTES
CONCEALMENT CANISTER/MAST	29'-4"± TO 38'-0"±	-	-	-	REMOVE EXISTING CONCEALMENT MASTS, CANISTER, & ALL ASSOCIATED HARDWARE.
CONCEALMENT ASSEMBLY	28'-10"± TO 38'-0"±	-	CONCEALMENT ASSEMBLY	SHEETS S-02 & S-03	INSTALL NEW CONCEALMENT ASSEMBLY WITH CANISTER & MAST TO THE TOP OF THE NEW FLANGE PLATE.
TOWER SHAFT	27'-4"± TO 29'-4"±	-	-		CUT THE TOP 2'-0" OF THE TOWER OFF.
	27'-4"± TO 28'-10"±	-	P18 STD		INSTALL NEW PIPE SHAFT TO THE TOP OF THE EXISTING TOWER SHAFT.
FLANGE BOLTS	28'-10"±	-	(6) 3/4"Ø FLANGE BOLTS	-	NEW FLANGE BOLTS SHALL BE PRE-TENSIONED PER AISC TURN-OF-THE NUT METHOD, MATCH MARKING SHALL BE PRESENT ON EACH FASTENER FOR INSPECTION PURPOSES.
TOWER PLUMB	-	-	-	-	UPON COMPLETION OF MODIFICATIONS CHECK AND ADJUST PLUMB FOR THE ENTIRE TOWER.

NOTES:
1. ALL MATERIAL REMOVED FROM THE TOWER SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE.



REV	DATE	DESCRIPTION
0	10/31/25	INITIAL RELEASE

SF1572 MOSS BEACH SHERIFFS STATION
500 CALIFORNIA AVE
MOSS BEACH, CA 94038
TOWER ELEVATION &
MODIFICATION SCHEDULE

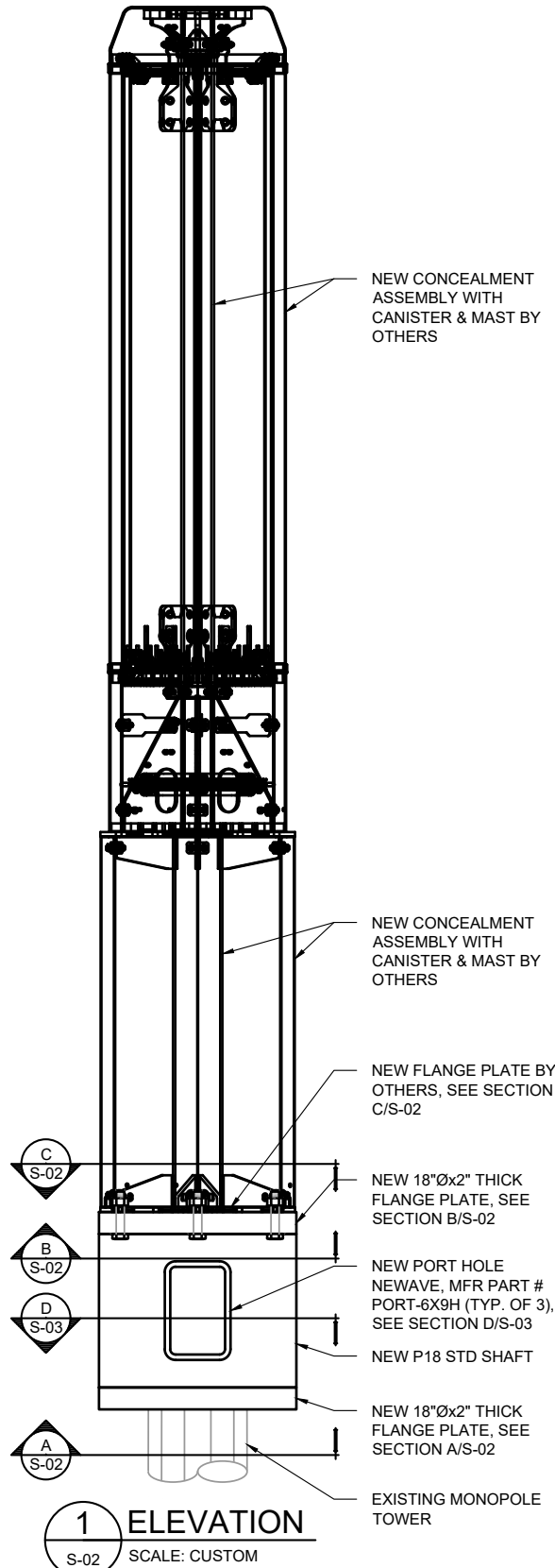
ISSUED FOR:	
PERMIT	10/31/2025
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
NM	RV
PROJECT MANAGER	APPROVED BY
BF	JNK

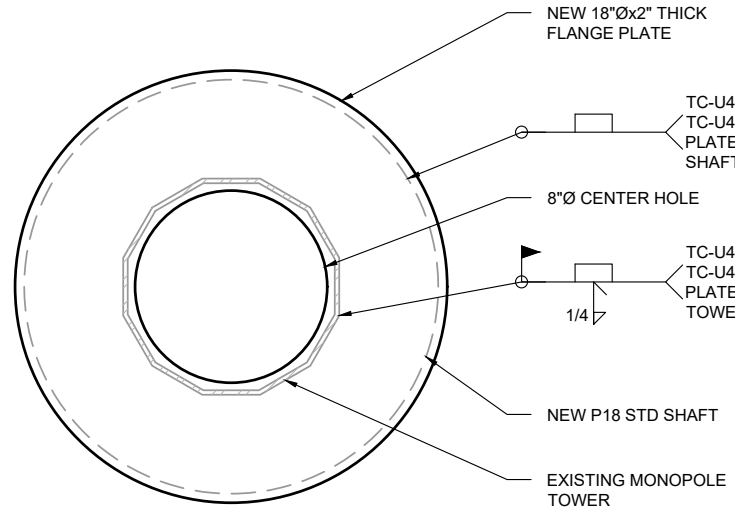
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S-01

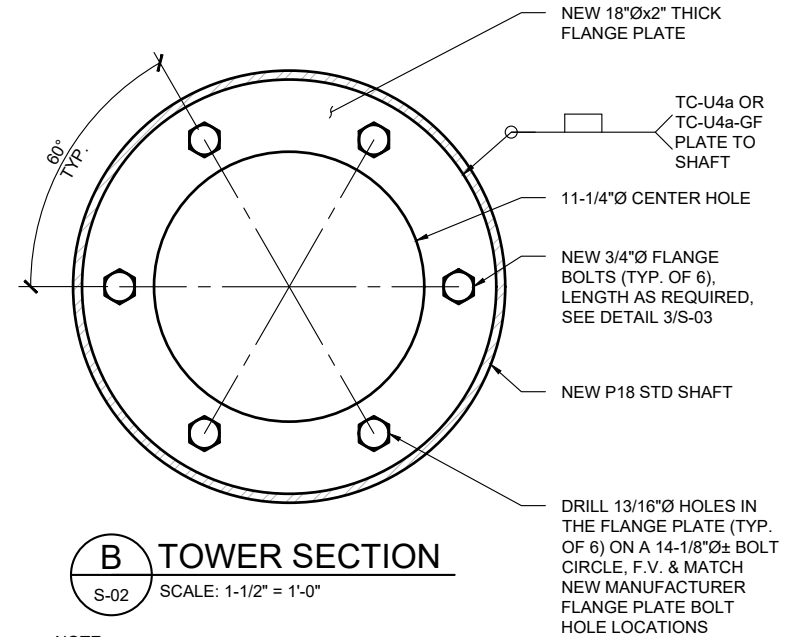
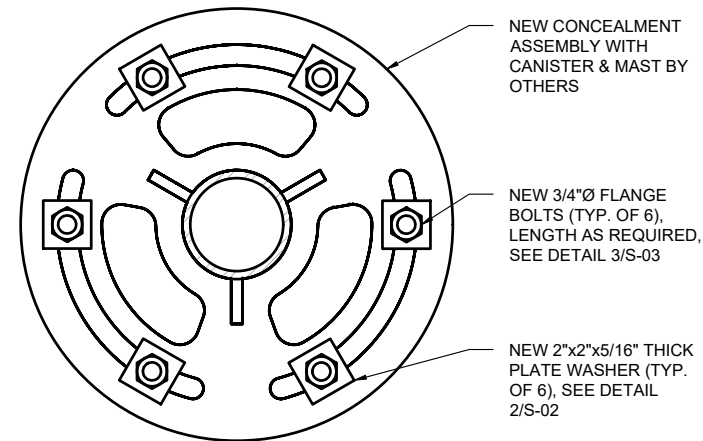
ELEV: 38'-0"±
TOP OF TOWER



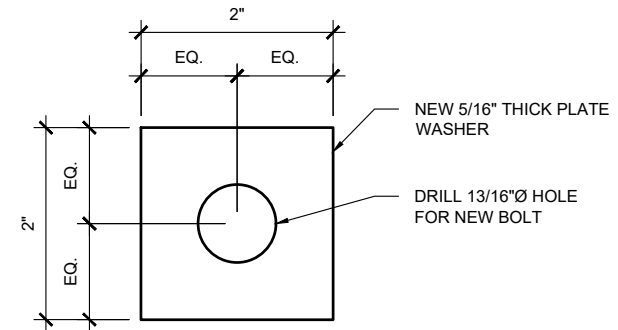
- NOTES:
- 2'-0" TOP OF EXISTING TOWER TO BE CUT OFF AND NOT SHOWN FOR DETAIL CLARITY.
 - CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING TOWER SHAFT DURING THE REMOVAL OF THE EXISTING FLANGE PLATE.
 - ALL EXPOSED STEEL SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZRC ZINC RICH COLD GALVANIZING COMPOUND.



- NOTE:
- FIELD NDE SHALL BE REQUIRED FOR THE CJP WELD BETWEEN THE MONOPOLE TOWER SHAFT & FLANGE PLATE AND PIPE SHAFT & FLANGE PLATE. THIS WELD SHALL BE 100% INSPECTED BY MT.
 - ALL FIELD DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZRC ZINC RICH COLD GALVANIZING COMPOUND.



- NOTE:
- FABRICATION NDE SHALL BE REQUIRED FOR THE CJP WELD BETWEEN THE PIPE SHAFT & FLANGE PLATE. THIS WELD SHALL BE 100% INSPECTED BY MT.



REV	DATE	DESCRIPTION
0	10/31/25	INITIAL RELEASE

SF1572 MOSS BEACH SHERIFFS STATION
500 CALIFORNIA AVE
MOSS BEACH, CA 94038

**MODIFICATION DETAILS
& SECTIONS**

ISSUED FOR:	
PERMIT	10/31/2025
BID	-
CONSTRUCTION	-
RECORD	-

ENGINEER	DESIGNER
NM	RV
PROJECT MANAGER	APPROVED BY
BF	JNK

JOB NO.
2025740.00.CA7060.02

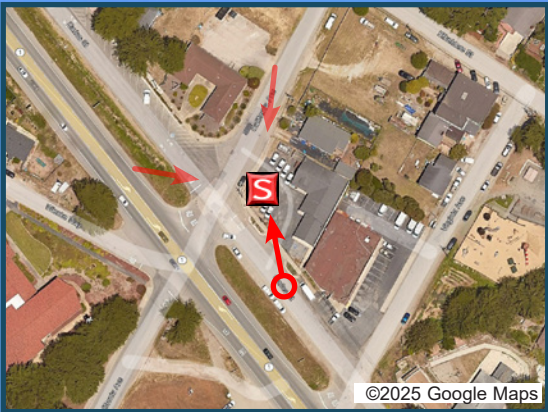
S-02





County of San Mateo - Planning and Building Department

ATTACHMENT D



EXISTING



PROPOSED LOOKING NORTHWEST FROM CARLOS STREET



EXISTING



PROPOSED LOOKING EAST FROM CARLOS STREET



EXISTING



PROPOSED LOOKING SOUTH FROM CALIFORNIA AVENUE



County of San Mateo - Planning and Building Department

ATTACHMENT E

RADIO FREQUENCY - ELECTROMAGNETIC ENERGY (RF-EME) COMPLIANCE REPORT

Report Type: Antenna Modification/Theoretical



Site ID: SF71572M

Site Name: VB: Moss Beach Sheriff's Station

Address: 500 California Ave. Moss Beach, CA 94038

Date of Calculation: March 21, 2025

Date of Report: March 21, 2025

Latitude: 37.52770797 N

Longitude: -122.513058 W



Prepared By:



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1.0 Executive Summary / Report Summary

Purpose of Report

Global Technology Associates (GTA) has been contracted by T-Mobile to conduct radio frequency electromagnetic (RF-EME) modeling for T-Mobile site **SF71572M** located at **500 California Ave. Moss Beach, CA 94038** to determine RF-EME exposure levels from existing and proposed T-Mobile wireless communications equipment at this site.

This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields. This report contains a detailed summary of the RF-EME analysis for the site. As described in greater detail in Section named **“Federal Communications Commission (FCC) Requirements”** of this report, the Federal Communications Commission (FCC) has developed Maximum Permissible Exposure (MPE) Limits for general population exposures and occupational exposures. This report summarizes the results of RF-EME modeling in relation to relevant FCC RF-EME compliance standards for limiting human exposure to RF-EME fields.

T-Mobile Site Summary			
Site ID	SF71572M	Street Address	500 California Ave.
Site Name	VB: Moss Beach Sheriff's Station	City, State, Zip	Moss Beach, CA 94038
Site Type	flag pole	Latitude	37.52770797 N
Classification	general population	Longitude	-122.513058 W
Access Restrictions	uncontrolled	Access Type	no restrictions
Site Description	all the antennas are mounted on the flag pole		
Max Predictive (Recalibrated) RF-EME at T-Mobile Facility (General Population)	94.90% of FCC's general population limit at ground level		
Max On-Site RF-EME at T-Mobile Facility (General Population for existing antennas)	2.77% of FCC's general population limit at ground level		
Max Predictive (Recalibrated) RF-EME at Ground Level (General Population for proposed antennas)	94.90% of FCC's general population limit		
Max On-Site RF-EME at Ground Level (General Population for existing antennas)	2.77% of FCC's general population limit		
Predictive RF-EME Analysis at T-Mobile Facility	The Proposed Antenna Configuration is In Compliance With FCC Rules & Regulations Upon Completion of the GTA Recommendations		

Table 1

A result of over 100% does not make a site out of compliance with FCC guidelines. For predicted EME over 100% of the applicable FCC limit, further remediation (e.g. signage and/or barriers preventing access) is required to consider the site compliant. Areas exceeding the FCC limit are presented with the barriers and appropriate signages. Accessible areas outside the demarcated are the safety zones that have predicted EME values below the FCC's limits. Installation of the recommended mitigation or remediation measures brings the site into compliance. The predictions models antennas as if they are operating at full power, and this assumption yields a worst case scenario with more conservative results. On-site measurements may yield different results, as antennas do not always operate at full capacity.

Methodology

The site to be determined as the compliance is based on theoretical modeling using RoofView® modeling tool, appropriate RF signage placement recommendations, proposed antenna inventory as provided by T-Mobile in the construction drawings and the type & level of restricted access to the antennas at the site.

Compliance Statement

T-Mobile's operation at **500 California Ave. Moss Beach, CA 94038** will comply with FCC rules and regulations upon completion of recommendations that includes the installation of appropriate RF Safety Signages and/or Barriers as described in Section 8.

Actions for Site Compliance

Based on common industry practice and our understanding of FCC and OSHA requirements, this section provides a statement of recommendations for site compliance. If required, RF alert signage recommendations have been proposed based on theoretical analysis of MPE levels. Where applicable, barriers can consist of locked doors, fencing, railing, rope, chain, paint striping or tape, combined with RF alert signage.

T-Mobile will be compliant when the following changes are implemented:

T-Mobile proposed Alpha Sector Location

1 Caution sign on the antenna as depicted in the site map in the later sections of the report.
There is no need to install Barrier & Chain/Striping/Tapes enclosing this sector.

T-Mobile proposed Beta Sector Location

1 Caution sign on the antenna as depicted in the site map in the later sections of the report.
There is no need to install Barrier & Chain/Striping/Tapes enclosing this sector.

T-Mobile proposed Gamma Sector Location

1 Caution sign on the antenna as depicted in the site map in the later sections of the report.
There is no need to install Barrier & Chain/Striping/Tapes enclosing this sector.

T-Mobile proposed Equipment/BTS Location

Ensure that a 1 Guideline, 1 Information & 1 Notice signs are installed at the Equipment/BTS location, as depicted in the site map in the later sections of the report.

2.0 MPE Calculations

For this MPE predictive analysis, GTA considered the area around the accessible areas of the T-Mobile antennas on the site to determine EME field strength levels with respect to the FCC's human exposure limits. Further GTA has identified any areas with higher levels exceeding FCC MPE limits and then determined spatially averaged field levels in areas with highest fields.

GTA has utilized computer generated modeling software RoofView® 4.15 to generate the compliance report.

Modeling & Input Assumptions

In this Site Compliance Report, it is assumed that

- All antennas are operating at full power at all times.
- The Antenna Inventory Table (Section 3) shows all transmitting antennas at the site.
- A 75% duty cycle and maximum radiated power for each antenna is assumed unless T-Mobile has specified otherwise.
- Obstructions like (screens, trees, buildings etc.) that would normally attenuate the signal are not taken into account.
- GTA obtained information used in this Compliance Report from T-Mobile which is considered reliable and believes them to be true and correct.
- Due to the complexity of some wireless sites, GTA performed this analysis and created this report utilizing best industry practices and due diligence. The scales and the determinations are based on the A&E drawings provided by T-Mobile.
- On a case-by-case basis, appropriate static gains and losses are considered while doing the simulations to simulate the closest field radiations of the antennas.

3.0 Antenna Inventory

ID	Technology	Antenna Make	Antenna Model	Azimuth (°)	Bottom of ANT from Ground (ft)
TMO S1A1	N600	Alpha Wireless	AWT2-3926	60	33.47
TMO S1A1	L700	Alpha Wireless	AWT2-3926	60	33.47
TMO S1A1	L1900	Alpha Wireless	AWT2-3926	60	33.47
TMO S1A1	N1900	Alpha Wireless	AWT2-3926	60	33.47
TMO S1A1	L2100	Alpha Wireless	AWT2-3926	60	33.47
TMO S1A1	N2500	Alpha Wireless	AWT2-3926	60	33.47
TMO S2A2	N600	Alpha Wireless	AWT2-3926	180	33.47
TMO S2A2	L700	Alpha Wireless	AWT2-3926	180	33.47
TMO S2A2	L1900	Alpha Wireless	AWT2-3926	180	33.47
TMO S2A2	N1900	Alpha Wireless	AWT2-3926	180	33.47
TMO S2A2	L2100	Alpha Wireless	AWT2-3926	180	33.47
TMO S2A2	N2500	Alpha Wireless	AWT2-3926	180	33.47
TMO S3A3	N600	Alpha Wireless	AWT2-3926	300	33.47
TMO S3A3	L700	Alpha Wireless	AWT2-3926	300	33.47
TMO S3A3	L1900	Alpha Wireless	AWT2-3926	300	33.47
TMO S3A3	N1900	Alpha Wireless	AWT2-3926	300	33.47
TMO S3A3	L2100	Alpha Wireless	AWT2-3926	300	33.47
TMO S3A3	N2500	Alpha Wireless	AWT2-3926	300	33.47

Table 2

4.0 Federal Communications Commission (FCC) Requirements

The FCC has established Maximum Permissible Exposure (MPE) limits for human exposure to Radio frequency Electromagnetic (RF-EME) energy fields, based on exposure limits recommended by the National Council on Radiation Protection and Measurements (NCRP) and, over a wide range of frequencies, the exposure limits developed by the Institute of Electrical and Electronics Engineers, Inc. (IEEE) and adopted by the American National Standards Institute (ANSI) to replace the 1982 ANSI guidelines. Limits for localized absorption are based on recommendations of both ANSI/IEEE and NCRP.

The FCC guidelines incorporate two separate tiers of exposure limits that are based upon occupational/controlled exposure limits (for workers) and general population/uncontrolled exposure limits for members of the general population.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

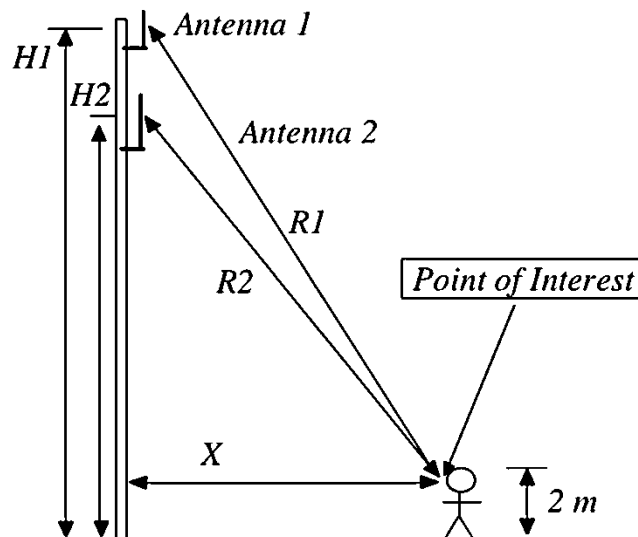


Figure 1

Table 3 and Figure 2 (below), which are included within the FCC's OET Bulletin 65, summarize the MPE limits for RF emissions. These limits are designed to provide a substantial margin of safety. They vary by frequency to take into account the different types of equipment that may be in operation at a particular facility and are "time-averaged" limits to reflect different durations resulting from controlled and uncontrolled exposures.

The FCC's MPEs are measured in terms of power (mW) over a unit surface area (cm²). Known as the power density, the FCC has established an occupational MPE of 5 milliwatts per square centimeter (mW/cm²) and an uncontrolled MPE of 1 mW/cm² for equipment operating in the 1900 MHz frequency range. For the T-Mobile equipment operating at 800 MHz, the FCC's occupational MPE is 2.66 mW/cm² and an uncontrolled MPE of 0.53 mW/cm². These limits are considered protective of these populations.

(A) Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-3.0	6 4	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time [E] ² , [H] ² , or S (minutes)
0.3-1.34	6 4	1.63	(100)*	30
1.34-30	1842/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1,500	--	--	f/1,500	30
1,500-100,000	--	--	1.0	30

Table 3

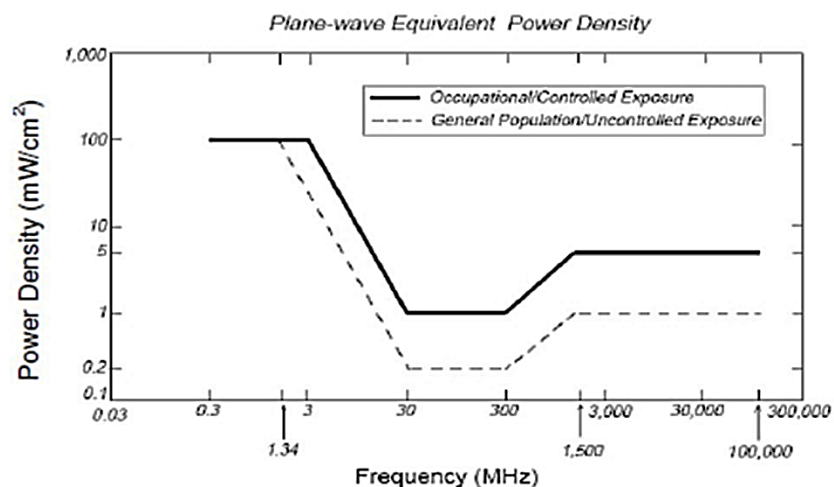


Figure 2

Based on the above, the most restrictive thresholds for exposures of unlimited duration to RF energy for several personal wireless services are summarized below:

Personal Wireless Service	Approximate Frequency	Occupational MPE	Public MPE
Personal Communication (PCS)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870 MHz	2.90 mW/cm ²	0.58 mW/cm ²
Specialized Mobile Radio	855 MHz	2.85 mW/cm ²	0.57 mW/cm ²
Most Restrictive Freq. Range	30-300 MHz	1.00 mW/cm ²	0.20 mW/cm ²

Table 4

Personal Communication (PCS) facilities used by T-Mobile in this area operate within a frequency range of 600-2500 MHz. Facilities typically consist of:

- 1) Electronic transceivers (the radios or cabinets) connected to wired telephone lines; and
- 2) Antennas that send the wireless signals created by the transceivers to be received by individual subscriber units (PCS telephones). Transceivers are typically connected to antennas by coaxial cables.

Because of the short wavelength of PCS services, the antennas require line-of-site paths for good propagation, and are typically installed above ground level. Antennas are constructed to concentrate energy towards the horizon, with as little energy as possible scattered towards the ground or the sky. This design, combined with the low power of PCS facilities, generally results in no possibility for exposure to approach Maximum Permissible Exposure (MPE) levels, with the exception of areas directly in front of the antennas.

Statement of Compliance

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 100% of the applicable MPE must participate in mitigating these RF hazards.

5.0 Limitations

This report was prepared for the use of T-Mobile. It was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by GTA are based solely on the information provided by T-Mobile. The observations in this report are valid on the date of the investigation. Any additional information that becomes available concerning the site should be provided to GTA so that our conclusions may be revised and modified, if necessary. This report has been prepared in accordance with Standard Conditions for Engagement and authorized proposal, both of which are integral parts of this report. No other warranty, expressed or implied, is made.

6.0 Safety Recommendations

Occupational Safety and Health Administration (OSHA) Requirements

OSHA requires that those in the Occupational classification must complete training in RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

Hazard Prevention	Control
- Utilization of good equipment - Enact control of hazard areas - Limit exposures - Employ medical surveillance and accident response	- Employ Lockout/Tag out - Utilize personal alarms & protective clothing - Prevent access to hazardous locations - Develop or operate an administrative control program

Table 5

RF Signage and Barriers

All RF signs should be obeyed by at all times.



Figure 3

If there are workers in an area with a sign that they do not understand, they can call the NOC Number at 877-611-5868 for guidance.

7.0 Federal Communications Commission (FCC) Limits

Contribution to Co-Located areas

Any wireless operator that contributes 5% or greater of the MPE limit in an area that is identified to be greater than 100% of the MPE limit is responsible taking corrective actions to bring the site into compliance. All co-located sites should have a separate 5% modeling that shows only T-Mobile antennas transmitting. This separate modeling indicates T-Mobile's contribution in all areas that is recognized to be greater 100% MPE limits.

Occupational Limits

Apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

General Population limits

Apply in situations in which the general population may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure. (Those without significant and documented RF Safety & Awareness training)

Controlled Environment

Applies to environments that are restricted or "controlled" in order to prevent access from members of the General Population classification.

Uncontrolled Environment

Applies to environments that are unrestricted or "uncontrolled" that allow access from members of the General Population classification.

Generic Values

The use of "Unknown" for an operator means the information with regard to the carrier, their FCC license and / or antenna information was not available. Generic values used as estimation for Effective Radiated Power (ERP) and antenna characteristics for unknown antennas.

8.0 Compliance Measures

The site needs the following mitigation and/or compliance plan.

The compliance determination is based on theoretical modeling, RF signage placement recommendations, proposed antenna inventory and the level of restricted access to the antennas at the site. At the time of our analysis, T-Mobile will be compliant with the FCC rules and regulations, as described in OET Bulletin 65 upon implementation of below remediation and/or compliance recommendations.

On flag pole :

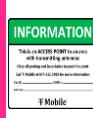
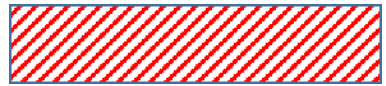
Recommendations for Site Compliance	Signages on Access Points, Sectors & Equipment						Enclosing Sectors																
																							
	Guidelines		NOC INFO		NOTICE		CAUTION		WARNING		NOTICE		CAUTION		WARNING		OC Length		GP Length		Striping		
	Access Point(s)																			Striping			
	Sector Alpha						✓	1												Striping			
	Sector Beta						✓	1												Striping			
	Sector Gamma						✓	1												Striping			
	Equipment/BTS		✓	1	✓	1	✓	1												Striping			
	Total Signage		1		1		1		3		0		0		0		0		0 sq. ft.		0 sq. ft.		Total = 0 sq.ft.

Table 6

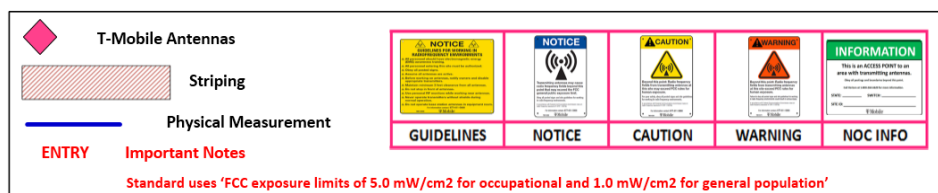
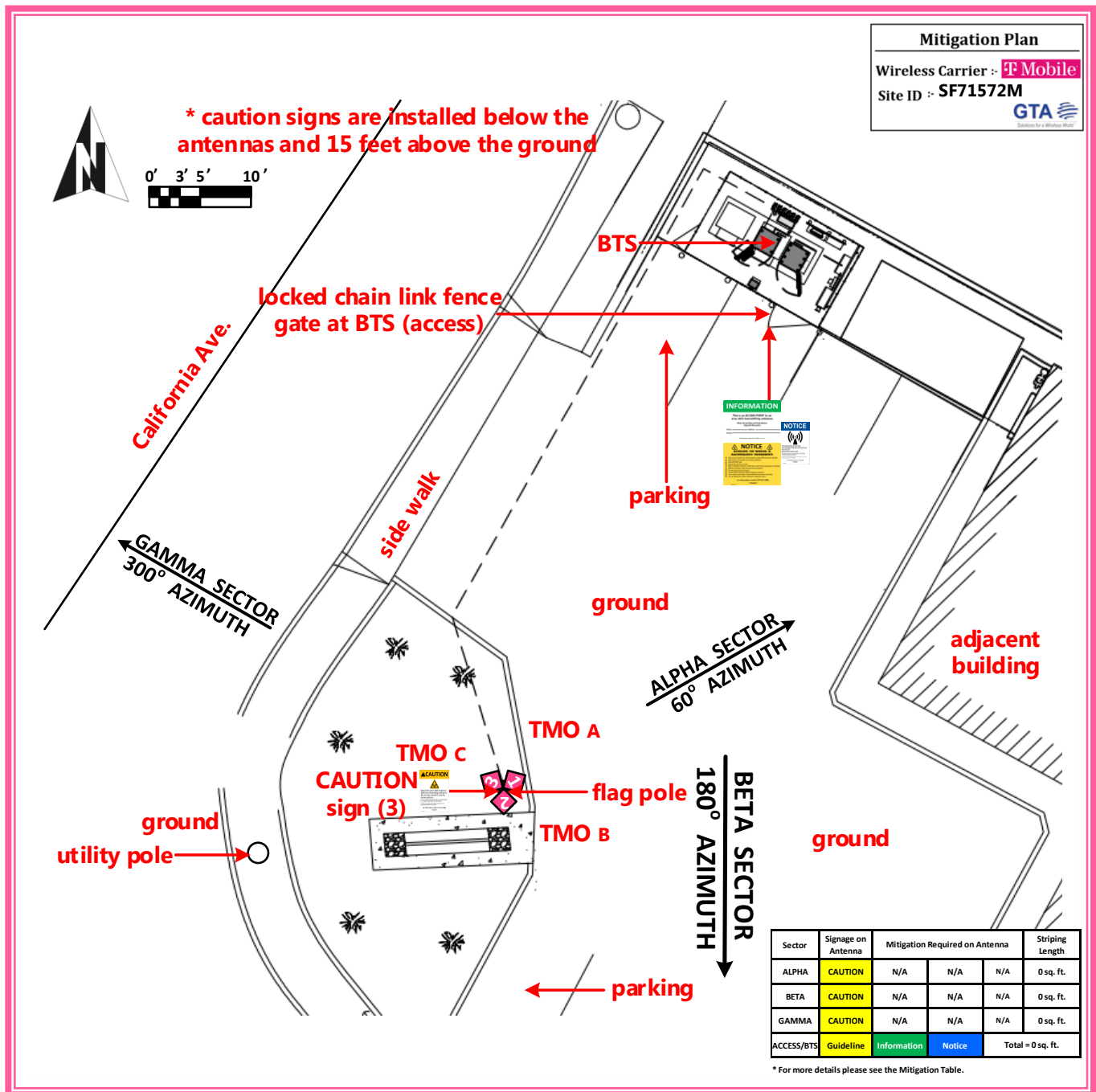
CAUTION: - The table above represents EVERY compliance item that MUST be implemented by the carrier at the site location; please see the Site Plan shown in diagram 1.

It is recommended to have periodic inspections of the components that are involved in radiation of RF energy. Periodic Electromagnetic Emission (EME) measurement should be conducted to reevaluate the RF radiation level at this site.

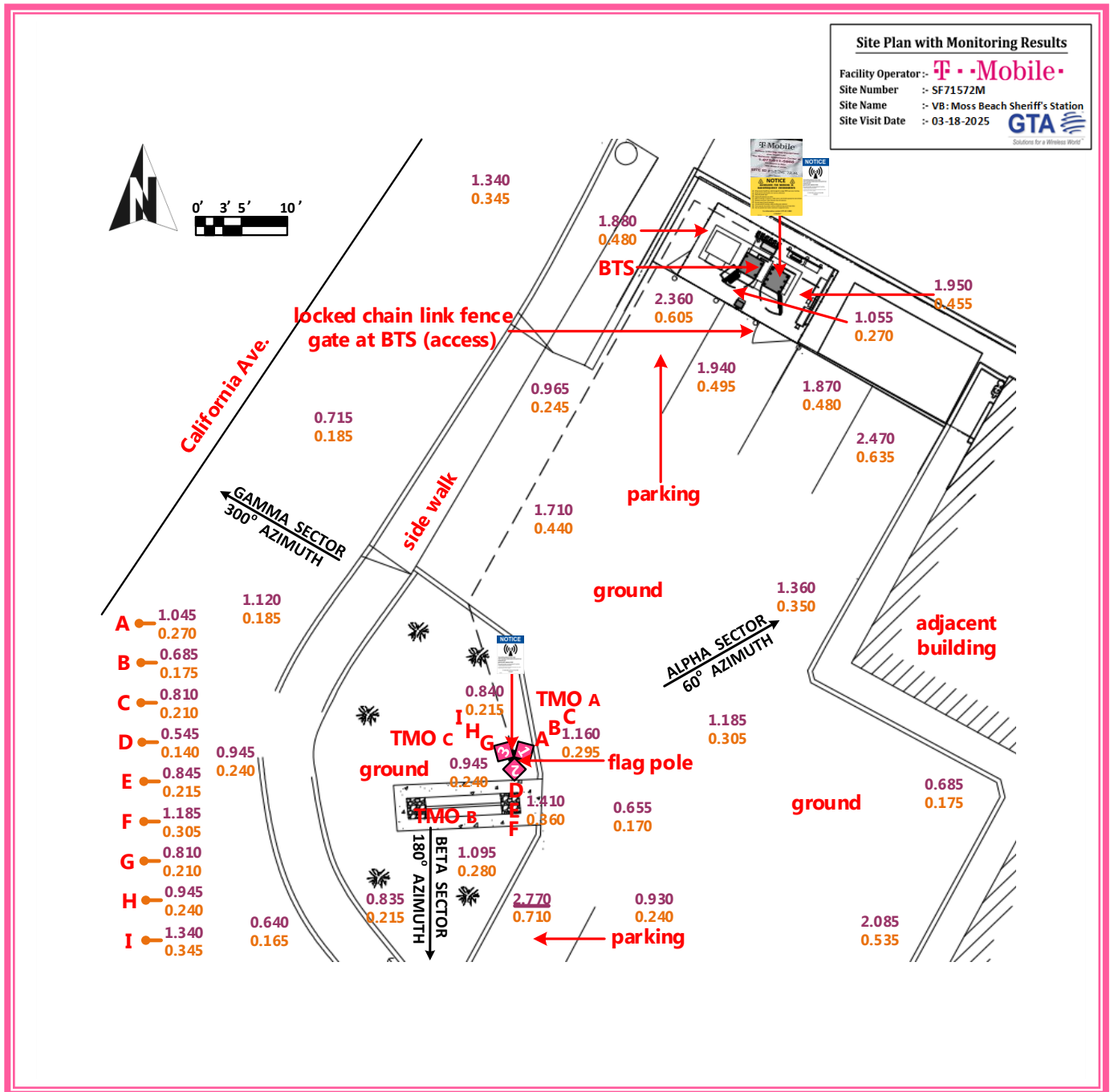
GTA recommends that T-Mobile and the authorized personal at the site take additional measures to ensure that persons accessing the roof/structure (for example, roofers or other maintenance workers) are informed of areas where RF levels exceed the FCC general population limit and made aware that these areas must be avoided to maintain compliance with FCC requirements. This is important especially when the placement of barriers, striping, taping or any other positive access control (areas of the roof that exceed the RF levels of general population limit) is not possible due to the physical construction or constraints or safety measures surrounding the antennas or on the roof/structure like sloped roof, tiled roof, chimney, steeples, cupolas, hilly terrain, etc.

It is further recommended to distribute this report to anyone accessing the roof/structure and ensuring the confirmation that it has been read and understood.

Diagram 1: Site Scale Plan



**On-Site T-Mobile's RF measurements at ground level for the
general population standard for the existing antennas On-Site**



9.0 Summary And Conclusions

GTA has prepared this Radiofrequency Emissions Compliance Report for the proposed T-Mobile telecommunications equipment at the site located at **500 California Ave. Moss Beach, CA 94038**.

GTA has conducted theoretical modeling to estimate the worst-case power density from T-Mobile antennas to document potential MPE levels at this location and ensure that site control measures are adequate to meet FCC and OSHA requirements.

As presented in the preceding sections, based on worst-case predictive modeling, **there are modeled exposures on any accessible ground-level walking/working surface** related to proposed equipment in the area that exceed the FCC's **general population** exposure limits at this site. Any of the modeled exposure areas exceeding the **general population** limits need to follow the mitigation/compliance plan proposed in the report in order to bring the T-Mobile antennas to compliance. As such, the proposed T-Mobile project is in compliance with FCC rules and regulations. **Posting of the signages and the recommendations** presented in Section 8 **brings the site into compliance with FCC rules and regulations**.

Recalibrated Predictive Modeling Utilizing Field Measurements on Ground Level (General Population)		
Existing Configuration	dB Margin Calculated (1)	15.623
	dB Margin Calculated (2)	19.809
	dB Margin Calculated (3)	19.263
	dB Margin Calculated (4)	18.279
	Maximum dB Margin, Available for Recalibration	15.623
Proposed Configuration	Max Predictive %MPE	100.600%
	Predictive %MPE, Calibrated Maximum (-15.623)	2.787%
	Predictive %MPE, Calibrated Adjusted (-0.25 dB)	94.900%

Table 7

In order to fully ensure and conclude the hypothesis drawn from the on-field EME study, T-Mobile is recommended to conduct another on-field EME study post construction and commissioning of the proposed antenna configuration and technologies in order to be certain that the new antennas meet the compliance requirements of FCC's General Population limits. If at all the results exceed the exposure limits, T-Mobile shall take the necessary on-site mitigation plan to bring all the transmitting antennas into compliance.

A site is considered out of compliance with FCC regulations if there are areas that exceed the FCC exposure limits and there are no RF hazard mitigation measures in place. Any carrier which has an installation that contributes more than 5% of the applicable MPE must participate in mitigating these RF hazards.

Modeling indicates that there will be no accessible areas on the walking/working surfaces at the ground-level in front of the T-Mobile antennas that may exceed the FCC standards for general population and/or occupational exposure after implementation of mitigation measures. To reduce the risk of exposure and/or injury, GTA recommends that access to the **flag pole** or areas associated with the active antenna installation or mitigation measures are restricted and secured where possible.

In order to alert any workers or general population potentially accessing the site, a blue Notice sign and/or yellow Caution sign and/or orange Warning sign based on the simulated exposure limits along with a yellow Guidelines sign are recommended for installation at the access to the rooftop/structure along with the barriers/stripping to exclude the RF radiations exceeding areas per the applicable limits.

10.0 Certification

This report has been prepared under the direction of the following Registered Professional Engineer:

I **Michael A. McGuire PE**, on the date indicated near my seal below hereby certify that:

I am registered as a Professional Engineer with License number listed below and that I am thoroughly familiar with the Regulations of the Federal Communication Commission (FCC), both in general and specifically as they apply to FCC guidelines for human exposure to Radiofrequency electromagnetic radiation and the EME predictive analysis for site identified as **SF71572M** located at **500 California Ave. Moss Beach, CA 94038**, has performed on **March 21, 2025** in order to determine where there might be electromagnetic energy that is in excess of both the Controlled Environment and Uncontrolled Environment levels; and that I have thoroughly reviewed this Site Compliance Report and believe it to be true and accurate to the best of my knowledge.



sealed 24mar2025