

Department of Public Works

Bureau of Engineering  
Report No. 1

June 9, 2025  
CD No. 11

**REQUEST FOR A VARIANCE FROM THE ABOVE GROUND FACILITIES ORDINANCE REQUIREMENTS FOR HEIGHT AND VOLUME LIMITATION AND A HARDSHIP WAIVER FROM THE UNDERGROUND REQUIREMENT FOR THE INSTALLATION OF TWO CABINETS LOCATED ADJACENT TO 138 CULVER BOULEVARD**

**RECOMMENDATIONS**

1. Approve the request for a variance from the volume requirement of the Above Ground Facilities (AGF) Ordinance, per Los Angeles Municipal Code (LAMC) Section 62.08.V.B., for the two proposed cabinets.
2. Approve the request for a hardship waiver from the below grade requirement of the AGF Ordinance, per LAMC Section 62.08.II.A., for the two proposed cabinets.
3. Authorize Network Connex/T-Mobile to replace one AGF cabinet (69 inches tall and 57 cubic feet in volume) with two cabinets (71-inches tall and 69.73 cubic feet in total volume), in the public right-of-way, adjacent to 138 Culver Boulevard.

**TRANSMITTALS**

1. Variance request dated November 7, 2024, from Network Connex located at 655 North Central Avenue, Glendale California 91203.
2. Hardship waiver request, dated November 7, 2024, from Network Connex located at 655 North Central Avenue, Glendale California 91203.
3. Site plan showing the design of the proposed replacement cabinets.

**DISCUSSION**

***Background***

On January 23, 2023, Network Connex, on behalf of T-Mobile, requested the replacement of an existing legacy AGF Cabinet with two new AGF cabinets in order to provide updated technologies to customers and backup power in the event of power outages.

On November 7, 2024, T-Mobile requested a variance from the maximum allowable volume of 36 cubic feet of the AGF Ordinance for proposed cabinets adjacent to 138 Culver Boulevard (Transmittal No. 1). On November 7, 2024, T-Mobile requested a

hardship waiver from the below grade requirement of the AGF Ordinance for the proposed cabinets (Transmittal No. 2).

On January 25, 2025, Network Connex, on behalf of T-Mobile, submitted plans showing the design of replacement cabinets (Transmittal No. 3).

On August 13, 2024, T-Mobile sent notification letters for the proposed installation to Council District No. 11, Westchester/Playa Neighborhood Council, the adjoining, abutting, and across the street property owners.

***Variance Request***

LAMC Section 62.08.V.B. lists three conditions that must be met for the Board of Public Works (Board) to grant a variance from the height and volume limitation:

1. The applicant needs to provide suitable measures consistent with the aesthetic guidelines of the AGF Ordinance and the formal aesthetic requirements adopted by the Board on April 3, 2019, to mitigate for the excessive AGF height/volume.
2. The applicant needs to demonstrate that no financially or technically acceptable alternative exists that complies with LAMC Section 62.08.V.B. and the co-location requirements adopted by the Board November 20, 2019.
3. The applicant needs to provide approval from the Cultural Affairs Commission for the design of the AGF.

The Bureau of Engineering (BOE) has determined that the height and volume limit variances for the for the two proposed cabinets should be granted for the following reasons:

1. The design of the proposed cabinets are suitable measures consistent with the aesthetic guidelines of this report mitigate the excessive AGF volume. The AGF is placed in front of empty lots and will not obstruct streetscape views or view corridors. All equipment will be mounted on the existing AGF concrete pad and will have the same footprint as the existing AGF. All equipment will be painted to help camouflage it with the surrounding area. Condition No. 1 has been satisfied.
2. The applicant has demonstrated that no financially or technically acceptable alternatives exist that comply with LAMC 62.08 Section V.B. Placing the equipment in an alternative location would require another AGF to be placed on a new concrete pad. Placing the equipment on the existing pad would be the best option financially. The volume increase is needed for T-Mobile to upgrade this site as needed to better support the coverage needs with new technology for the nearby residents. One of the two cabinets will contain backup battery to provide emergency backup power in

June 9, 2025

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the event of a power outage. The height increase is a result of the cabinet base that allows for the conduit to be concealed underneath rather than being exposed. Therefore, condition No. 2 has been satisfied.

3. The Cultural Affairs Commission approved the proposed installation for the site on March 31, 2023. Condition No. 3 has been satisfied.

#### ***Hardship Waiver Request***

The Los Angeles Department of City Planning and the Department of Transportation do not require review of AGF projects within the Los Angeles Coastal Transportation Corridor Specific Plan. A Hardship Waiver is still required because the Specific Plan is not exempt from the Below Grade requirement of the LAMC.

This proposed installation is within the Los Angeles Coastal Transportation Corridor Specific Plan. LAMC Section 62.08.II.B gives the Board authority to waive the below grade requirement if it finds that technical or financial hardship would result from imposing these requirements. According to the applicant's hardship waiver request, the requirement to place the installation below grade would pose a technical hardship.

The proposed facility is within 200 feet of a commercial zone. However, backup batteries must be located within close proximity to the existing antennas mounted on the utility pole where the existing AGF is located. Therefore, other locations could not be considered.

Service maps were provided to demonstrate that at least 50 percent of the AGF's intended benefit will be to service customers in the restricted area.

#### ***BOE Determination***

The site location was determined by T-Mobile to be the best technical location for their coverage needs for the area. The BOE's review of the AGF application found the site to be compliant with the AGF Ordinance.

On February 4, 2025, T-Mobile sent a second set of notification letters to the adjoining, abutting, and across the street property owners notifying them of the BOE's determination that the proposed AGF installation has met the requirements of the AGF Ordinance. Occupants of the adjoining lot and the lot across the street were also notified. The notification informed them that they would have 14 calendar days to appeal the determination. Council District No. 11 and Westchester/Playa Neighborhood Council were also notified.

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The results of the second notification are shown on Figure No. 1 below:

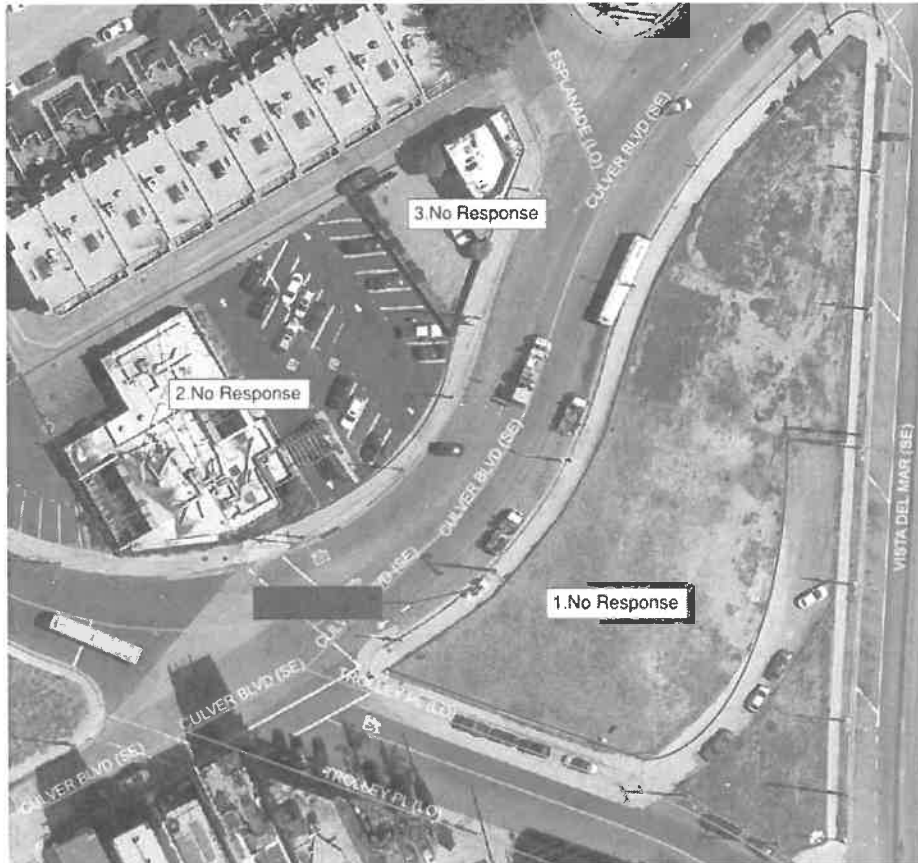


Figure No. 1: Aerial view

Figure No. 1: Survey of Adjoining, Abutting, and Across the Street Property Owners/Occupants					
Site Address	Request	No. of Properties Involved	Yes	Opposed	No Response
138 Culver Boulevard	Hardship Waiver and Variance	3	0	0	3

The BOE did not receive any appeals from the notified parties. Council District No. 11 has not taken a position with respect to this proposal. The following photos provide the before and after photo simulations of the proposed installation:

Department of Public Works  
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Figure No. 2: Side View on Culver Boulevard (before installation).



Figure No. 3 Side View on Culver Boulevard (simulation of after the installation).



Figure No. 4: Front view on Culver Boulevard (before installation).



Figure No. 5: Front View on Culver Boulevard (simulation after installation).

Network Connex/T-Mobile has met all the conditions required for the variance and hardship waiver request of the AGF Ordinance. Therefore, the BOE recommends that the Board approve the variance and hardship waiver request for the site.

Department of Public Works  
Bureau of Engineering  
Report No. 1

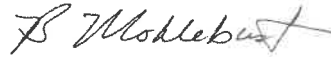
June 9, 2025  
Page 7

( CS VCA BM )

Report reviewed by:

Respectfully submitted,

BOE (ADM)



Report prepared by:

for Ted Allen, PE  
City Engineer

Central District Office

Christine Sotelo, PE  
District Engineer  
Phone No. (213) 378-1268

CS/TY/04-2025-0068\_CEN.los

City Log No. 2023003042

Questions regarding this report  
may be referred to:  
Tao Yang, Civil Engineer  
Phone No. 310-575-8625  
E-mail: [tao.yang@lacity.org](mailto:tao.yang@lacity.org)



**Date: 11/7/2024**

City of Los Angeles  
Department of Public Works  
Bureau of Engineering  
201 North Figueroa Street, 3rd floor, Suite 300  
Los Angeles, CA 90012  
Attn: Tao Yang

**RE: AGF Volume and Height Variance Request**

**T-Mobile / LA02930A - Adjacent to 4116007069 (AGF: South on Culver Blvd. North of Trolley Ave.)  
BOE Log # 2023003042**

T-Mobile is requesting a variance from the volume and height requirement of the Los Angeles Municipal Code for the proposed AGF installation listed above.

1. Suitable measures consistent with the aesthetic guidelines of this report mitigate the excessive AGF volume.

The AGF installation will not obstruct street scape views, view corridors in the public rights-of-way, view corridors of neighboring lots, or view corridors from the public right-of-way. All equipment will be mounted on the existing AGF concrete pad. All equipment will be painted to help camouflage with the surrounding area.

2. The applicant demonstrates that no financially or technically acceptable alternative exists that complies with LAMC 62.08 Section V.B.

Placing the equipment in an alternative location would require another AGF to be placed on a new concrete pad. Placing the equipment on the existing pad will be the best option financially. The volume increase is needed for T-Mobile to upgrade this site as needed to better support the coverage needs with new technology for the nearby residents. The height increase will be required for the new conduit to be placed under the proposed cabinets. The cabinet bases are needed to be able to run the conduit from underneath rather than have exposed conduit. Per Los Angeles municipal code section 63.08.VB the maximum allowable AGF height is 5'6" and volume of 36 cu ft, however the height of the proposed will need to be 5'11" with a volume of 69.73 cu ft.

3. The AGF installation design has been cleared by Cultural Affairs on 3/31/2023.

If you should have any additional questions or concerns, please don't hesitate to contact me directly.  
Respectfully,

**Colt Waterbury** | Permit Expeditor Network Connex  
655 N. Central Ave., Suite 1520 | Glendale, CA 91203 c: 626.537.0184 |  
e: cwaterbury@networkconnex.com

TRANSMITTAL NO. 1
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November 7, 2024

RE: AGF Installation

Application Log

Number:2023003042

Culver Blvd. and Trolley Ave.

Attention: AGF Permit Group

T-Mobile is requesting a hardship waiver from the under grounding requirement of Los Angeles Municipal Code Section 63.08.II.C for the proposed AGF installation listed above.

1. Section (II)(C)(1): T-Mobile is requesting a variance from the under grounding requirement to upgrade the existing equipment. T-Mobile is removing and replacing the existing cabinet with the new models required for the updated technology.
2. Section (II)(C)(3): There is no private property locations that are willing to allow the placement of the proposed cabinets on their property.
3. Section 62.08.II.C.4: We have included propagation maps showing the existing and proposed new service area within the specific plan area.

For the foregoing reasons, we are requesting for a variance from the undergrounding requirements. If you have any questions regarding the above statements, please contact me at (626) 537-0184 Or [cwaterbury@networkconnex.com](mailto:cwaterbury@networkconnex.com)







1. REMOVE (2) 6X-661-62M QJUD ANTENNAS AND ADD (2) 2ND AIR 5120
2. ADD (2) 4-12-PORT COMPOSITE CABLES 67A-64-62 NEED SHARPER ANTENNAS FOR TO PASS CITY/JAIRSDITION
3. ADD (2) 4-12-PORT COMPOSITE CABLES 67A-64-62 NEED SHARPER ANTENNAS FOR TO PASS CITY/JAIRSDITION
4. ADD (2) RNOO 4460 32S + B66 FOR 11.9/1900 WITH 12L ON TOP CONNECTED ON MB PORTS OF 12 PORTS ANTENNA
5. ADD (24) 4-3-10 TO 4-3-10 COM. CABLES.
6. ADD MORE ROUTER (CUMMINS CAR TO NEW ROUTER)
7. ADD MORE ROUTER (CUMMINS CAR TO NEW ROUTER)
8. ADD MORE ROUTER (CUMMINS CAR TO NEW ROUTER)
9. ADD 5610-60C-2Z AND 1810 AND ADDING SKIT BASE FRAME TO CABINET, RELOCATE NEEDED COMPONENTS FROM 6102 TO 6101
10. REMOVE 8102 CABINET
11. ADD (1) 66661 FOR N55
12. ADD (1) 66661 FOR N55
13. ADD (8) 4WE POWER CABLES AND (16) LOSSE PIER CABLES FOR AIR 6419 AND RNO 4460/4460
14. UPGRADE 4WE ROUTER

11. ADD (8) 4AWG POWER CABLES AND (16) LOOSE FIBER CABLES FOR AIR 6-19 AND RRU 4480/4460
12. UPGRADE IRE ROUTER

The contractor shall protect and maintain all street light facilities existing in the work area. Should any damage to the street light system occur, the contractor shall immediately notify the Bureau of Street Lighting, Field Operations Division, by telephoning (313) 313-4744. After 4:30 PM Monday through Thursday, or 1:30 PM on Friday, contact the District Traffic Board of the Department of Water and Power by telephoning (800) 821-5278 from the (213) area code, or (800) 821-5278 from the (313) area code.

The contractors shall install proposed poles 12 ft above the top of the street lighting foundation, pole bases, and sockets, except where otherwise noted herein. The electrical design is based on working from the street lighting system to the corner and along the proposed route of a City of Los Angeles, California, Department of Transportation (DOT) 74-1388. To the extent that distance requirements are met, where a conflict exists between the street lighting policies and the proposed improvement, approval for installation of the street lighting policies may be obtained by contacting the Street Lighting Engineer at (213) 480-3426.

The contractor who proceeds with extensive caution while working near the high voltage street circuit. Utilities workers work on the street lighting system. The contractor shall notify the Bureau of Street Lighting, Fire Department (322) 913-4744 two business days prior to working near the street lighting circuit.

The plan has been reviewed by the Bureau of Street Lighting and approved for the encroachment of new utilities within the Bureau of Street Lighting easement in a specified location and within the plan.

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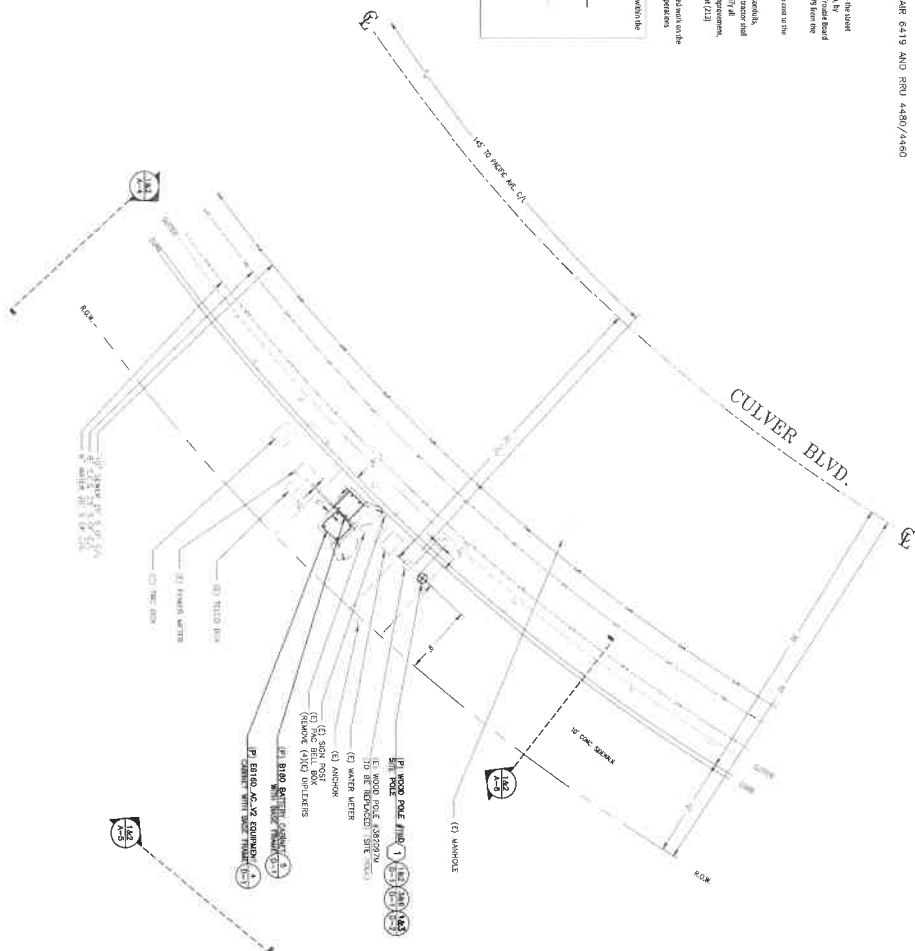
Linear footage of conduit: ..... F

Approved by

Bureau of Street Lighting

Date

LOCATION OF SUBSTRUCTURES AS SHOWN MAY NOT BE EXACT. THE SPECIFIC LOCATIONS AND DEPTHS OF SUBSTRUCTURES MUST BE DETERMINED BY THE CONTRACTOR BEFORE INITIATING WORK.



1. REMOVE 6160 CABINET IN ORDER TO MAKE SPACE FOR 6160 AND 6160D, AC, VZ CABINETS. E3160, AC, VZ WILL SUPPORT ALL TECHNOLOGIES AND ADDING SHIRT BARE FRAME TO CABINET
2. INSTALL 125 BRACKET FOR 6160 CABINET WITH (5) PSU RECEPTS
3. UPGRADE (1) OPS UPGRADE KIT INSIDE MAIN CABINET; 8 PORT OPS STARTER OPS 33559/COALES
4. ADD (2) OPS OS D1 OPS'S
5. ADD (1) PDU/IO4
6. ADD (1) WIRE-ROUTER (UPGRADE EXISTING ROUTER)

SCALE  $\frac{3}{16}'' = 1'$



**NETWORK**

Office: (011) 936 666 000 Fax: (011) 936 666 001

**DAILY:** 10 00 33

ENGINEER DATE:

DRAFTED BY

NO.: \_\_\_\_\_ DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
13-00-22 PM

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UPDATE TO F616


100% C

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LAU293

PHANTOM J

138 1/2 CULVE

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EX-112/512

DEPT OF CALL

ENLARG

**SHEET NUMBER:**

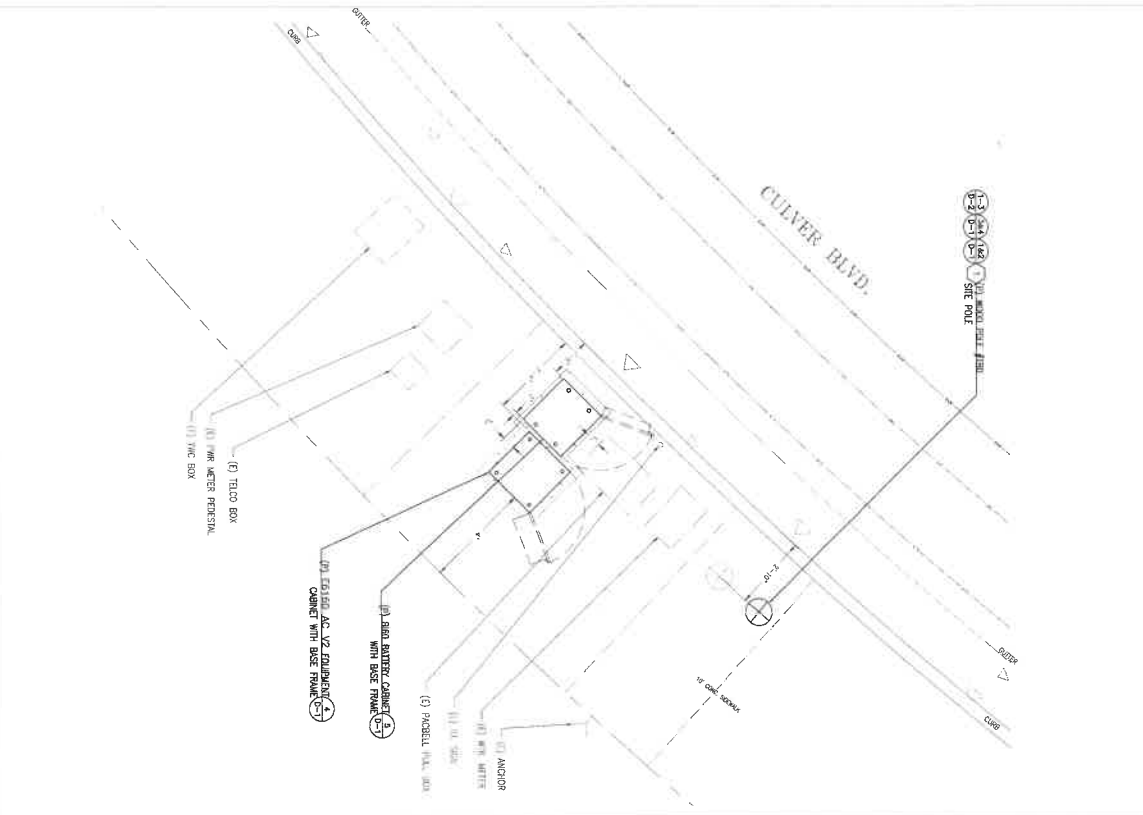
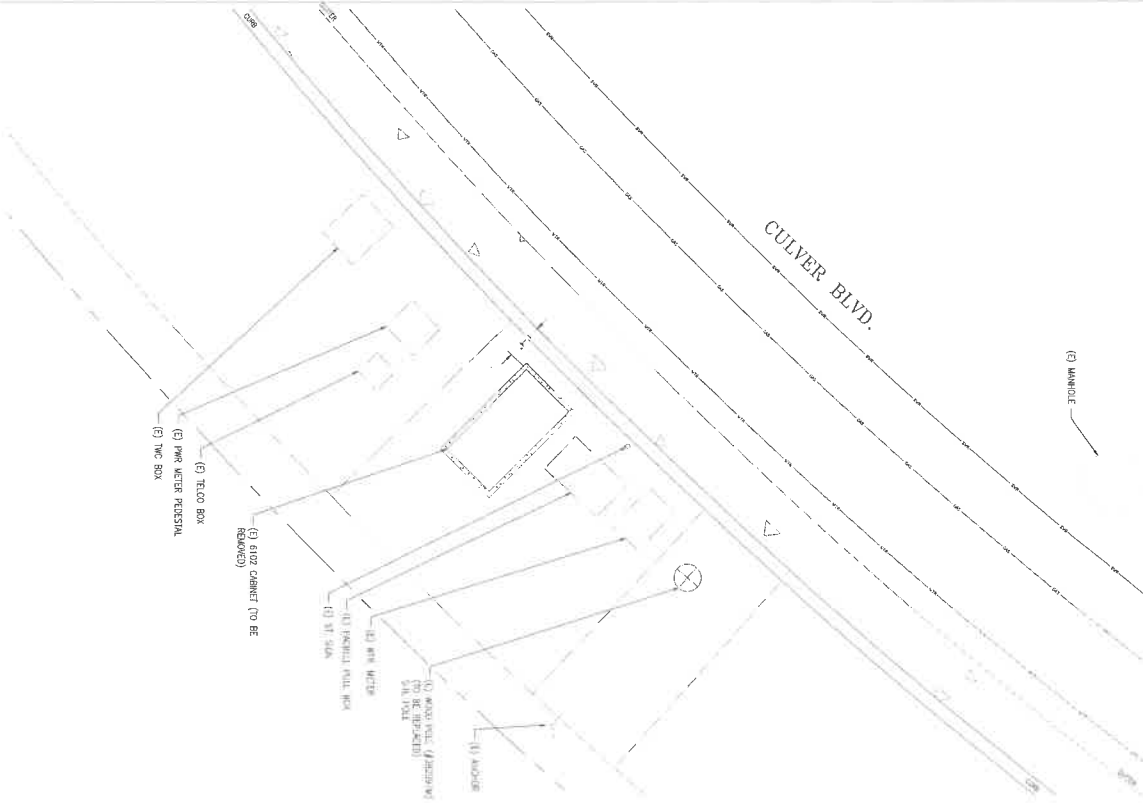
A-2

1 | EXISTING EQUIPMENT LAYOUT PLAN

SCALE: 1/2"=1'

2 | PROPOSED EQUIPMENT LAYOUT PLAN

SCALE: 1/2"=1'



**TR Mobile**  
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**NETWORK CONNEX**

138 1/2 CULVER BLVD.  
PLAYA DEL REY, CA 90293  
STAMP:

**SHEET TITLE:**  
EQUIPMENT LAYOUT PLAN

**SHEET NUMBER:**  
A-3

**DATE:**  
12-09-22

**ENGINEER DATE:**  
12-09-22

**DRAFTED BY:**  
R.M.

**NO. 1** **DATE:** 12-09-22 **BY:** R.M.  
90% CD

**2** 01-13-23 Z.S.  
100% CD

**3** 09-03-24 Z.S.  
UPDATE TO E6160 AC V2

**4** 01-15-25 R.M.  
100% CD  
PER JX COMMENTS

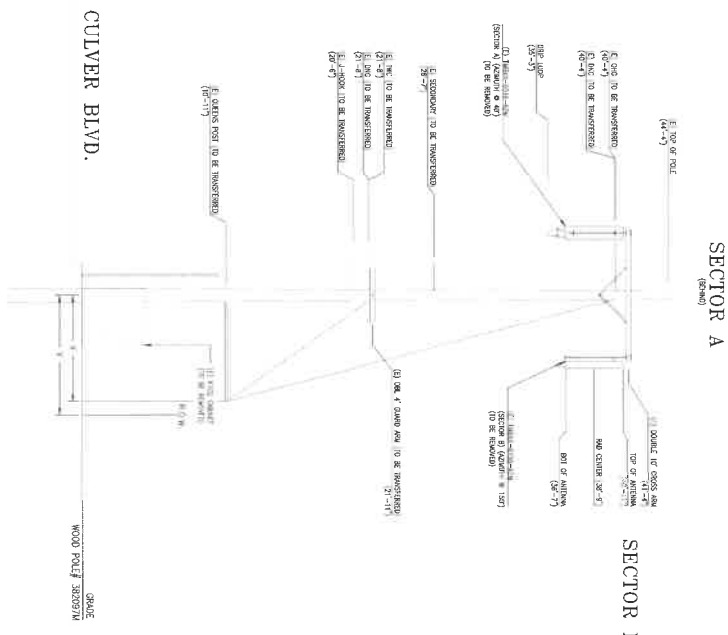
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**6**

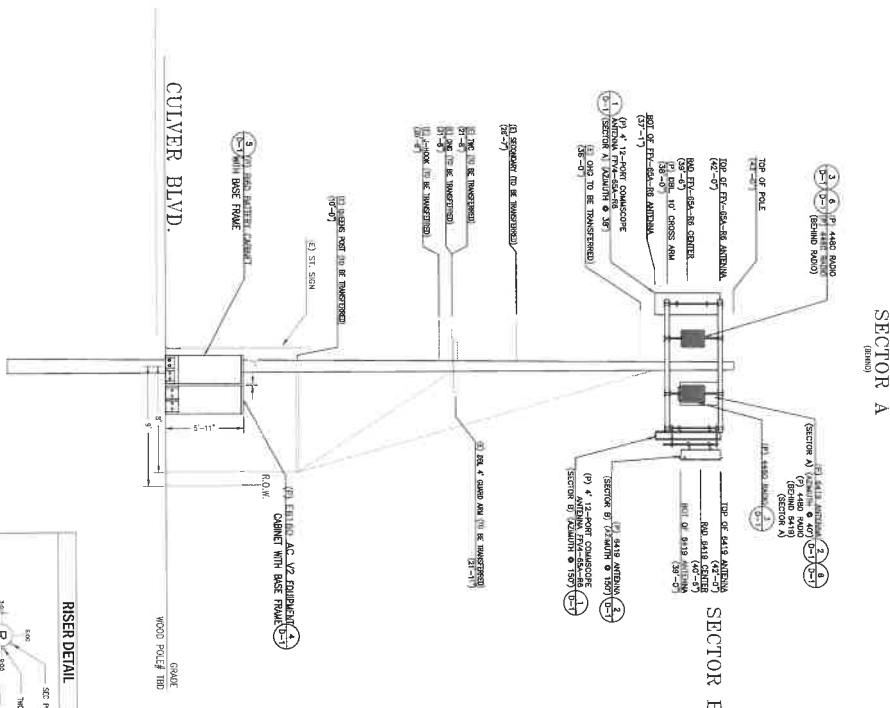
**7**

**SITE INFORMATION:**  
LA02930A  
LA930 CITY OF LA  
PHANTOM JPA

EXISTING GROUND EQUIPMENT	DIMENSIONS	CUBIC INCHES	CUBIC FEET
EXISTING CULVERT	57" X 51.8" X 27.5'	80,274.65 IN <sup>3</sup>	46.60 FT <sup>3</sup>
TOTAL		80,274.65 IN <sup>3</sup>	46.60 FT <sup>3</sup>



PROPOSED GROUND EQUIPMENT	DIMENSIONS	CUBIC INCHES	CUBIC FEET
PROPOSED ENCLOSURE 8180	63" X 25.5" X 29.5'	47,391.75 IN <sup>3</sup>	27.42 FT <sup>3</sup>
PROPOSED ENCLOSURE 8180	63" X 25.5" X 33.5'	53,817.25 IN <sup>3</sup>	31.05 FT <sup>3</sup>
PROPOSED ENCLOSURE 8180	12" X 25.5" X 29.5'	9,027.75 IN <sup>3</sup>	5.23 FT <sup>3</sup>
PROPOSED ENCLOSURE 8180	12" X 25.5" X 33.5'	120,486.75 IN <sup>3</sup>	69.73 FT <sup>3</sup>
TOTAL			



1 | EXISTING ELEVATION LOOKING NORTHEAST

SCALE: 1/4"=1'-1" 2 | PROPOSED ELEVATION LOOKING NORTHEAST

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

Can't move from this

**NETWORK CONEX**  
M.S. GIBBS AND ASSOCIATES  
3000 WEST 10TH AVENUE, SUITE 100  
DENVER, CO 80202

DATE: 12-09-22  
ENGINEER DATE: 12-09-22  
DRAWN BY: R.M.  
NO. DATE: 12-09-22  
REV. DATE: 12-09-22  
90% CD

1 09-03-24 Z.S.  
UPDATE TO E6160 AC V2  
100% CD

4 01-15-25 R.M.  
100% CD  
PER J.A. COMMENTS

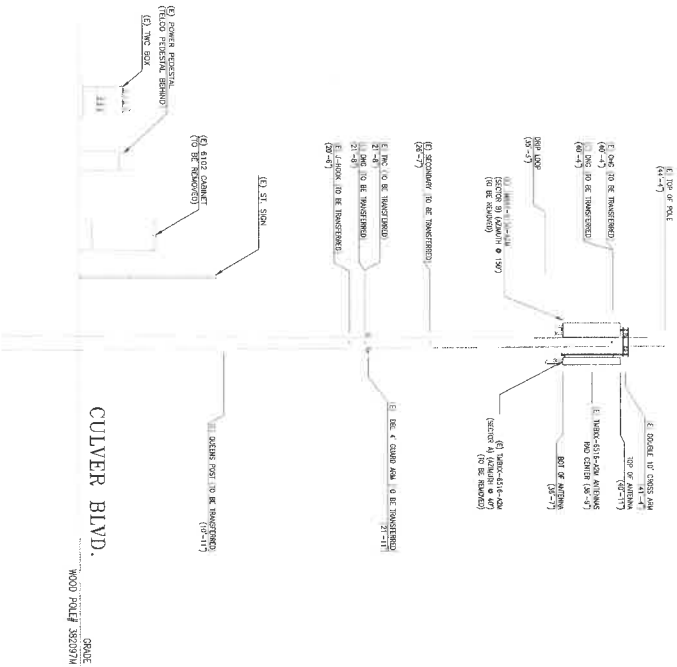
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SITE INFORMATION:  
LA029330A  
LA930 CITY OF LA  
PHANTOM JPA  
138 1/2 CULVER BLVD.,  
PLAYA DEL REY, CA 90233  
STAMP



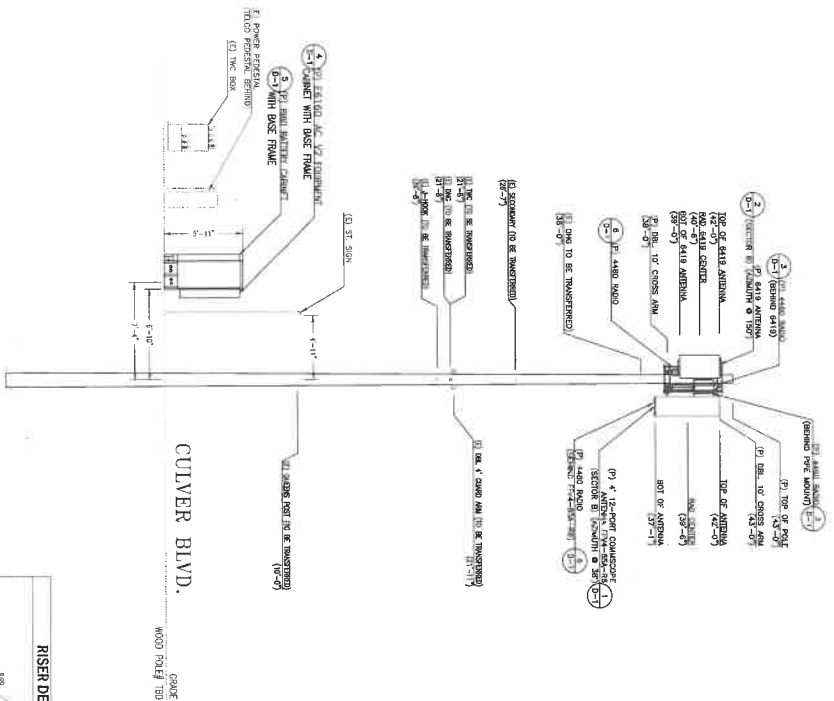
SHEET TITLE: SITE ELEVATION  
SHEET NUMBER: A-4

EXISTING GROUND EQUIPMENT	DIMENSIONS	CUBIC INCHES	CUBIC FEET
6102 CABINET	57 1/4" X 51 1/4" X 27.570"	80,272.65 IN <sup>3</sup>	46.60 FT <sup>3</sup>
TOTAL		80,272.65 IN <sup>3</sup>	46.60 FT <sup>3</sup>



PROPOSED GROUND EQUIPMENT	DIMENSIONS	CUBIC INCHES	CUBIC FEET
EMERSON ENCLOSURE E160	63 1/4" X 25.5 1/4" X 29.570"	47,391.75 IN <sup>3</sup>	27.42 FT <sup>3</sup>
EMERSON ENCLOSURE E160	63 1/4" X 25.5 1/4" X 33.570"	53,817.75 IN <sup>3</sup>	31.15 FT <sup>3</sup>
6160 CABINET BASE FRAME	12 1/4" X 25.5 1/4" X 29.570"	5,027 IN <sup>3</sup>	2.925 FT <sup>3</sup>
6160 CABINET BASE FRAME	12 1/4" X 25.5 1/4" X 33.570"	10,251 IN <sup>3</sup>	5.935 FT <sup>3</sup>
TOTAL		120,480.75 IN <sup>3</sup>	69.73 FT <sup>3</sup>

# SECTOR B

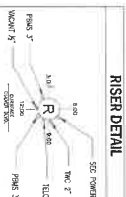


## 1 EXISTING ELEVATION LOOKING NORTHWEST

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

## 2 PROPOSED ELEVATION LOOKING NORTHWEST

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



**NETWORK  
CONNECT**  
DATA COMMUNICATIONS  
1000 S. MAIN ST. SUITE 100  
DOWNEY, CA 90241

DATE: 12-09-22

ENGINEER DATE: 12-09-22

DRAWN BY: R.M.

NO. 1 DATE: 12-09-22 BY: R.M.

100% CD

2 03-13-23 Z.S.

3 09-03-24 Z.S.

UPDATE TO E160 AC V2

4 01-15-25 R.M.

100% CD

PER JX COMMENTS

5

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SITE INFORMATION:

LA02930A  
LA930 CITY OF LA  
PHANTOM JPA

138 1/2 CULVER BLVD.,  
PLAYA DEL REY, CA 90234

STAMP:

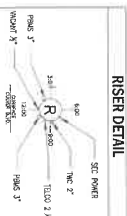
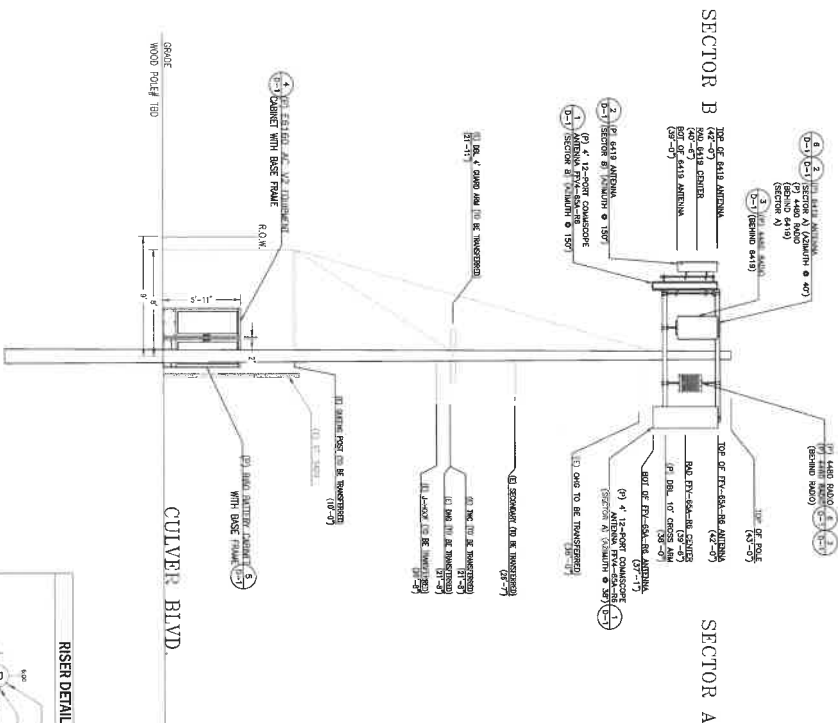


SHEET TITLE:  
**SITE  
ELEVATION**

SHEET NUMBER:  
**A-5**

	PROPOSED GROUND EQUIPMENT	CUBIC INCHES	CUBIC FEET
EMERSON ENCLOSURE B160	63 H x 25.5 W x 29.5 D	47,391.75 IN <sup>3</sup>	27.42 FT <sup>3</sup>
EMERSON ENCLOSURE B160	63 H x 25.5 W x 29.5 D	5,819.75 IN <sup>3</sup>	3.15 FT <sup>3</sup>
B160 CABINET BASE FRAME	121 H x 25.5 W x 29.5 D	9,027 IN <sup>3</sup>	5.223 FT <sup>3</sup>
B160 CABINET BASE FRAME	121 H x 25.5 W x 33.5 D	10,251 IN <sup>3</sup>	5.933 FT <sup>3</sup>
TOTAL		120,486.75 IN <sup>3</sup>	69.73 FT <sup>3</sup>

NOTE: MAKE READY  
 REACTOR TO TEST INTO A 30" MONO BLOCK DIECAST THERMOSIT IS 1-1/2" DIA.  
 TO 3/4" OF THE MAXIMUM THERMOSTAT IS .008 TO 1/8" DIA. AND IS 1/2" DIA.  
 ANCHOR THROUGH SECTION IS .207" DIA. AND THERMOID IS 1/8" DIA. AND  
 271" DIA. THERMOID IS 1/8" DIA. TO 271" DIA. FOR IS SQUARE AS 1" DIA. DIECAST

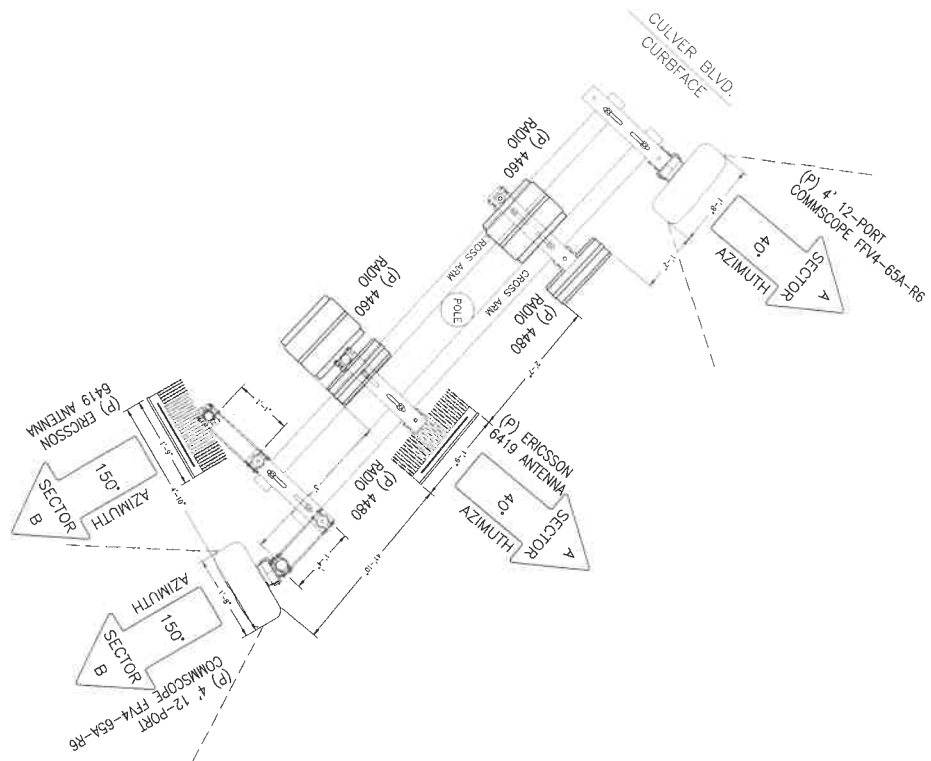
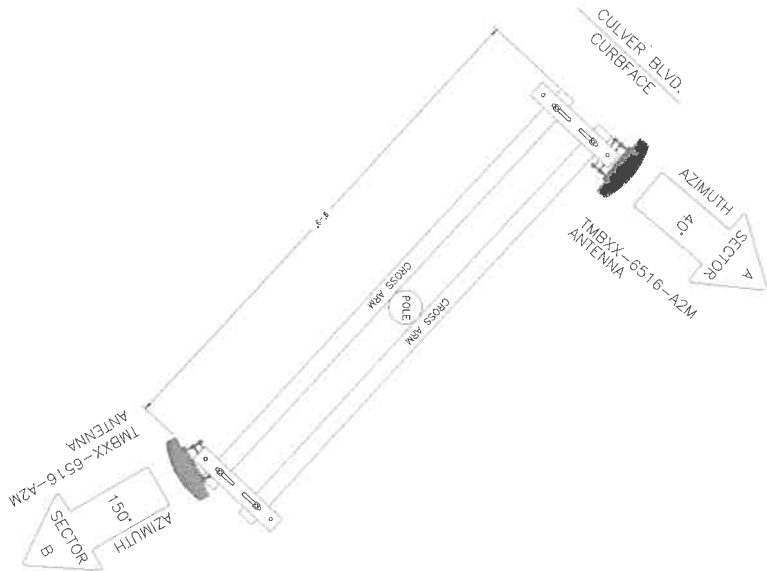


# 1 EXISTING ELEVATION ANTENNA LAYOUT PLAN

SCALE: 1/4"=1'

# 2 PROPOSED ANTENNA LAYOUT PLAN

SCALE: 1/4"=1'



24. More from life

NETWORK  
CONEX

DATE: 12-09-22

ENGINEER DATE: 12-09-22

DRAWN BY: R.M.

NO. 1 DATE: 12-09-22 R.M.

90% CD

2 03-13-23 Z.S.

100% CD

3 09-03-24 Z.S.

UPDATE TO E160 AC V2

4 01-15-25 R.M.

PER UX COMMENTS

5

6

7

SITE INFORMATION:

LA02930A

LA930 CITY OF LA

PHANTOM JPA

138 1/2 CULVER BLVD.,

PLAYA DEL REY, CA 90233

STAMP:



SHEET TITLE:

ANTENNA

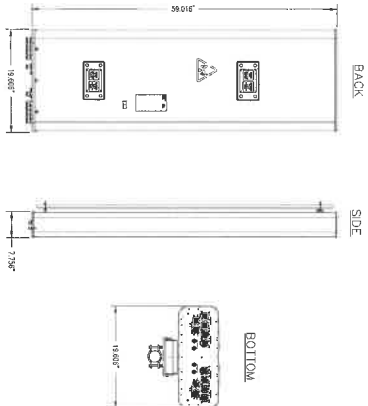
LAYOUT PLAN

SHEET NUMBER:

A-7

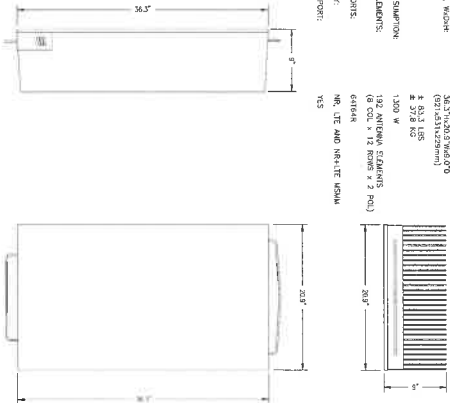
COMMSCOPE FFV4-65A-R8

DIMENSIONS HMMKD:  
WIND SPEED: 241 KM/H 72.091 lb  
COLOR: LIGHT GRAY  
RADIOME MATERIAL: FIBERGLASS

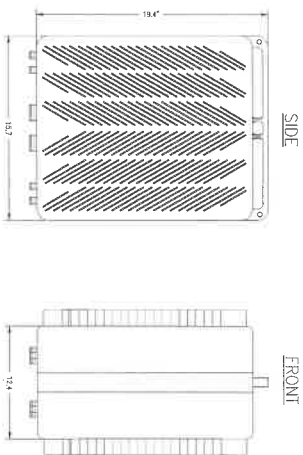


ERICSSON AIR 6419 B41

FREQUENCY RANGE: LTE TDD B41: 2485-2680 MHz  
DIMENSION, WIDTH: 36.37x26.57x6.67" (927.13x1327.27mm)  
WIGHT: 2 85.2 LBS  
POWER CONSUMPTION: 1200 W  
ANTENNA ELEMENTS: 192 ANTENNA ELEMENTS (8 COL. x 12 ROWS x 2 PAU)  
ANTENNA PORTS: 6164K  
TECHNOLOGY: NR, LTE AND NR-LTE UDMA  
5G NR SUPPORT: YES



ERICSSON 4460 RADIO



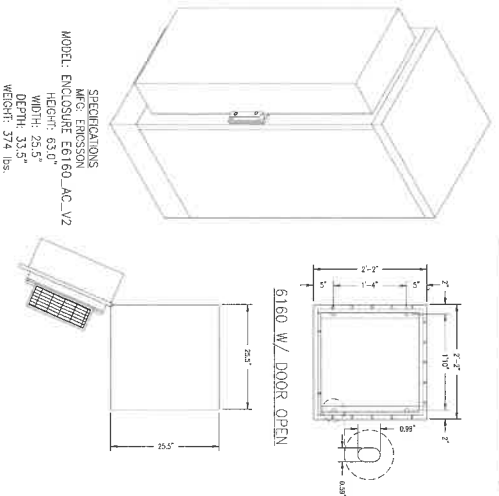
SPECIFICATIONS  
MFG: ERICSSON  
MODEL: RADIO 4460  
HEIGHT: 19.4"  
WIDTH: 15.7"  
DEPTH: 12.4"  
WEIGHT: 103.62 lbs.

1 COMMSCOPE FFV4-65A-R6

SCALE: N.T.S.

ISOMETRIC

6160 INSTALLATION HOLE PATTERN

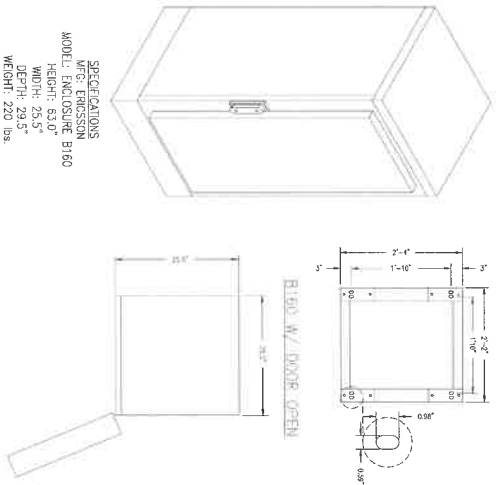


2 ERICSSON AIR 6419 B41

SCALE: N.T.S.

ISOMETRIC

B160 INSTALLATION HOLE PATTERN

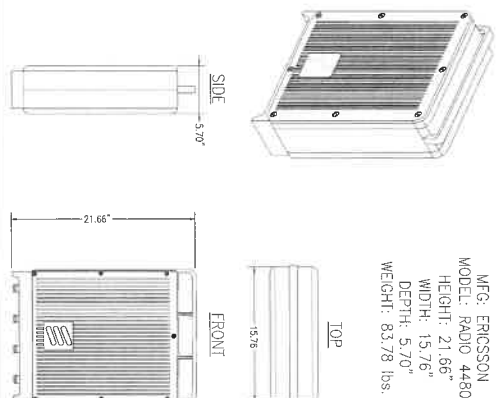


3 ERICSSON 4460 RADIO

SCALE: N.T.S.

ISOMETRIC

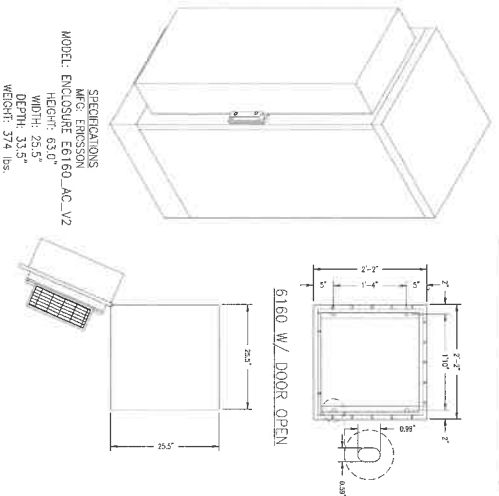
SPECIFICATIONS



4 ERICSSON ENCLOSURE E6160\_AC\_V2

SCALE: N.T.S.

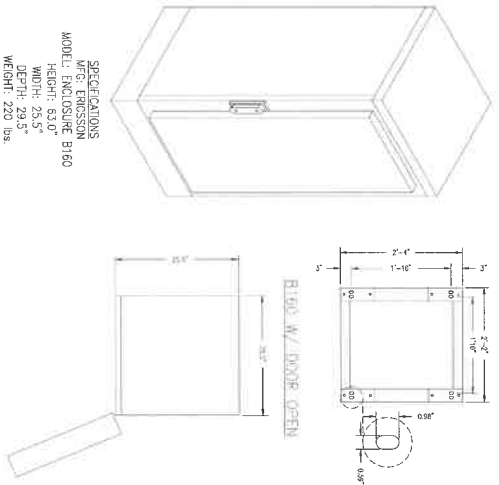
SPECIFICATIONS  
MFG: ERICSSON  
MODEL: ENCLOSURE E6160\_AC\_V2  
HEIGHT: 63.0"  
WIDTH: 25.5"  
DEPTH: 33.5"  
WEIGHT: 374 lbs.



5 ERICSSON ENCLOSURE B160

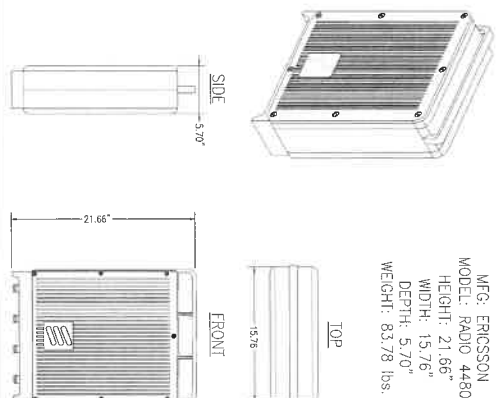
SCALE: N.T.S.

SPECIFICATIONS  
MFG: ERICSSON  
MODEL: ENCLOSURE B160  
HEIGHT: 63.0"  
WIDTH: 25.5"  
DEPTH: 29.5"  
WEIGHT: 220 lbs.



6 ERICSSON 4480 RADIO

SCALE: N.T.S.



DATE: 12-09-22  
ENGINEER DATE: 12-09-22  
DESIGNED BY: R.M.  
NO. DATE BY:  
1 12-09-22 R.M.  
90% CD  
2 03-13-23 Z.S.  
100% CD  
3 09-03-24 Z.S.  
UPDATE TO E6160\_AC\_V2

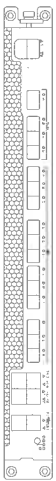
4 01-15-25 R.M.  
100% CD  
PER JAX COMMENTS  
5  
6  
7

SITE INFORMATION:  
LA02930A  
LA930 CITY OF LA  
PHANTOM JPA  
138 1/2 CULVER BLVD.,  
PUEBLO DEL REY, CA 90233  
STAMP:



SHEET: EQUIPMENT  
DETAILS  
SHEET NUMBER: D-1

NOKIA JURE UNIT  
MANUFACTURER AND MODEL NO  
NOKIA JURE  
1/2" x 1.5" x 0  
20 lbs



#### 1 IXRE ROUTER

SCALE: N.T.S.

UTHPM-TALL-BF-KIT  
INCLUDES BOTH FRAMES (SKK 125 5009/1 + SKK 125 5010/1)

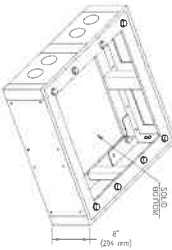
ENCLOSURE 6160 12" BASE FRAME  
(SKK 125 5009/1)

NOTE: E6160 HAS A 4" BASE FRAME THAT MUST BE REMOVED

ENCLOSURE 6160 8" BASE FRAME  
(SKK 125 5010/1)

NOTE: E6160 HAS A WELDED-ON 4" BASE FRAME THAT CAN'T BE REMOVED. HENCE 8" ONLY TO MATCH HEIGHT OF E6160 WITH TALL BASE FRAME

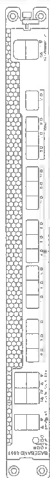
WEIGHT: 27 kg (60 lbs)



#### 4 E6160 AND B160 BASE FRAME

SCALE: N.T.S.

ERICSSON BASEBAND UNIT 6651  
DC POWER SUPPLY  
NOMINAL VOLTAGE  
TEMPERATURE  
DIMENSIONS  
WEIGHT  
-48 VDC  
0 TO +55°  
1/2" x 1.56" x 0  
15.53 lbs



#### 2 ERICSSON BASEBAND 6651

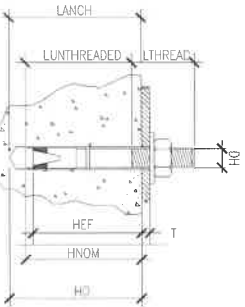
SCALE: N.T.S.

INSTALLATION NOTES FOR POST-INSTALLED ANCHORS.

- CENTER OF ANCHORS TO HAVE MINIMUM OF 12" DISTANCE TO CONCRETE EDGES/SEAMS AND OTHERS EXISTING OR CONCENTRATOR SHALL VERIFY CONCRETE THICKNESS PER TABLE BELOW
- CONTRACTOR SHALL SCAN FOR AND LOCATED EXISTING REBAR BEFORE DRILLING. DO NOT CUT OFF DAMAGE FOUNDATION BEFORE REBAR IS EXPOSED IMMEDIATELY. MINOR ADJUSTMENT TO ANCHOR LOCATION MAY BE REQUIRED
- CONCENTRATOR SHALL USE EQUIPMENT MANUFACTURER'S BOLTING LAYOUT AND SPECIFICATIONS. SPECIAL INSPECTIONS REQUIRED FOR ALL ANCHORS
- MANUAL CLEANING OFF THE DRILLED HOLE IS REQUIRED ACCORDING TO ANCHOR MANUFACTURER INSTRUCTIONS AND ICCO-ES EVALUATION REPORT NO. ESR-4286
- ANCHORS SHALL BE REMOVED OR CUT PLUSH WITH WITH HIT HIT-RE 500 V3 EPOXY (ICC ESR NO.3814)

ANCHOR TYPES	HITI KB 122 STAINLESS STEEL
LENGTH OF ANCHOR, LANCH (IN)	3.75
DIAMETER OF ANCHOR, DA (IN)	.500
MINIMUM THICKNESS OF FASTED STEEL MATERIAL, TMIN (IN)	.25*
MINIMUM EFFECTIVE EMBEDMENT, HEF (IN)	2.500
MINIMUM NOMINAL EMBEDMENT, HMIN (IN)	3.000
MINIMUM DRILL HOLE DEPTH, HD (IN)	3.25**
MINIMUM CONCRETE SLAB THICKNESS, TCONC (IN)	5.00
REQUIRED INSTALLATION TORQUE	40FT-LB

\* NOTIFY OER IF MATERIAL THICKNESS DOES NOT MEET MINIMUM VALUES SPECIFIED.  
\*\* HANMER DRILL HOLE IN CONCRETE BASE MATERIAL AND CLEAN HOLE PER MANUFACTURE'S SPECIFICATIONS.

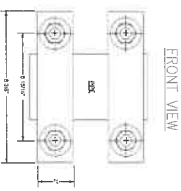
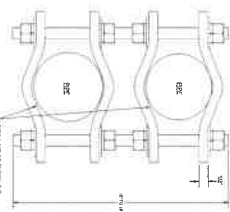
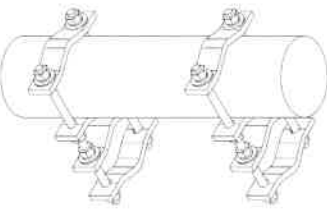


#### 3 TAPERED PIPE TO PIPE ADAPTER

SCALE: N.T.S.

##### SPECIFICATIONS

PRODUCT TYPE: ADAPTER  
MOUNTING: PIPE-TO-PIPE  
TOWER TAPER: TAPERED  
HWMAL: 2"x8"x12"  
MOUNTING DIAMETER MAX: 1.5"-5"



DATE: 12-09-22  
ENGINEER DATE: 12-09-22  
DRAFTED BY: R.M.  
NO. 12-09-22 R.M.  
90% CD

2 03-13-23 Z.S.  
100% CD  
3 09-03-24 Z.S.  
UPDATE TO E6160 AC V2

4 01-15-25 R.M.  
100% CD  
5 PER JX COMMENTS

6

7  
SITE INFORMATION:  
LA029330A  
LA930 CITY OF LA  
PHANTOM JPA

138 1/2 CULVER BLVD.  
PLAYA DEL REY, CA 90293  
STAMP:



SHEET TITLE:  
EQUIPMENT  
DETAILS  
SHEET NUMBER:  
D-2

DATE: 12-09-22

ENGINEER DATE: 12-09-22

DRAWN BY: R.M.

NO: 1 DATE: 12-09-22 BY: 90% CD

2 03-13-23 Z.S. 100% CD

3 09-03-24 Z.S. UPRITE TO EN160 AC V2

4 01-15-25 R.M. 100% CD

5 PER JX COMMENTS

7

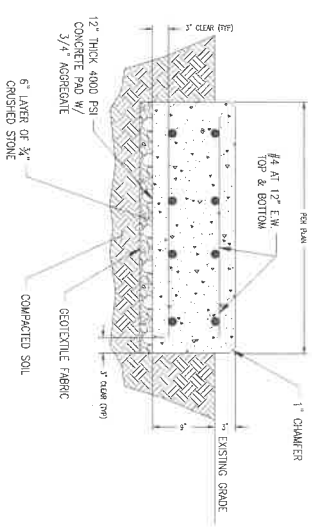
SITE INFORMATION:

LA02930A  
LA930 CITY OF LA  
PHANTOM JPA

138 1/2 CULVER BLVD.,  
PLAYA DEL REY, CA 90293  
STAMP:

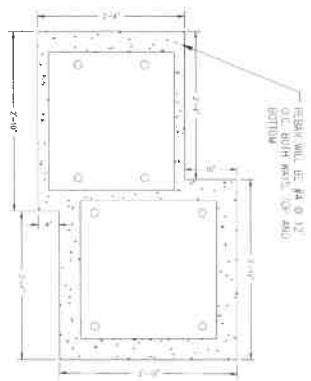


SHEET TITLE:  
EQUIPMENT  
DETAILS  
SHEET NUMBER: D-3



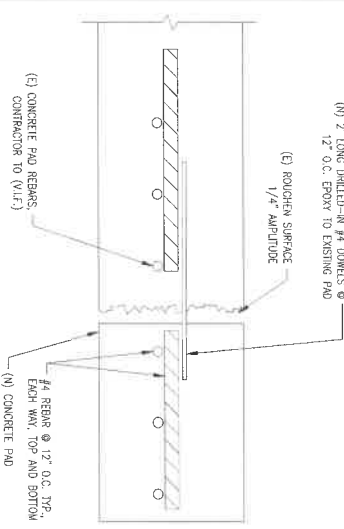
1 CONCRETE PAD SECTION

SCALE: N.T.S.



2 (N) CONCRETE PAD DETAIL

SCALE: N.T.S.



3 CONCRETE PAD LAYOUT PLAN

SCALE: N.T.S.

4 NOT USED

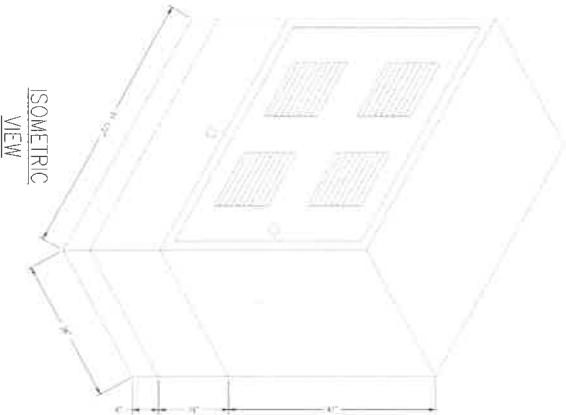
SCALE: N.T.S.

5 NOT USED

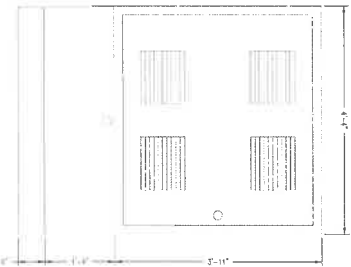
SCALE: N.T.S.

6 NOT USED

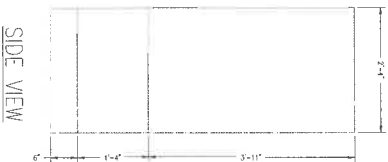
EXISTING EXISTING EQUIPMENT	DIMENSIONS	CUBIC INCHES	CUBIC FEET
T-MOBILE LEGACY CABINET	68" H X 51.5" W X 28" D	98,591.2 IN <sup>3</sup>	57.68 FT <sup>3</sup>
TOTAL		98,591.2 IN <sup>3</sup>	57.68 FT <sup>3</sup>



ISOMETRIC  
VIEW



FRONT VIEW



SIDE VIEW

1 T-MOBILE LEGACY CABINET



DATE: 12-09-22

ENGINEER DATE: 12-09-22

DRAFTED BY R.M.

NO. 1 DATE: 12-09-22 BY: R.M.

90% CD

2 03-13-23 Z.S.

100% CD

3 09-03-24 Z.S.

UPDATE TO E6160 AC V2

4 01-15-25 R.M.

100% CD

PER A/E COMMENTS

5

6

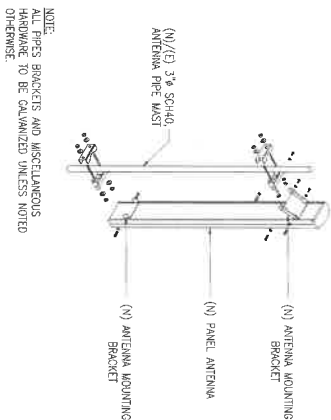
7

SITE INFORMATION:  
LA02930A  
LA930 CITY OF LA  
PHANTOM JPA  
138 1/2 QUIVER BLVD.,  
PLAYA DEL REY, CA 90293  
SIEMENS

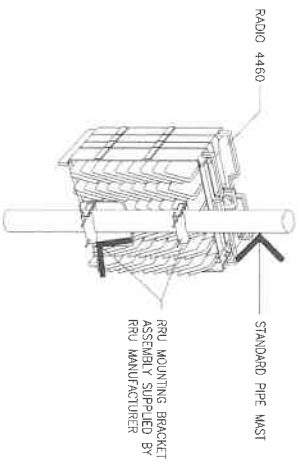


SHEET TITLE:  
EQUIPMENT  
DETAILS

SHEET NUMBER:  
D-4



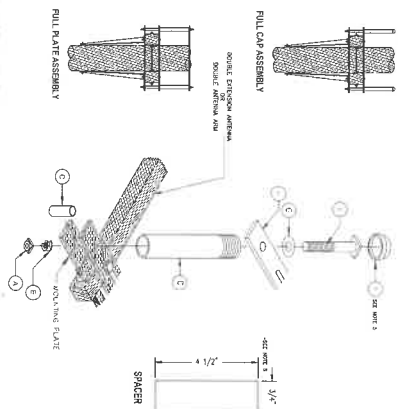
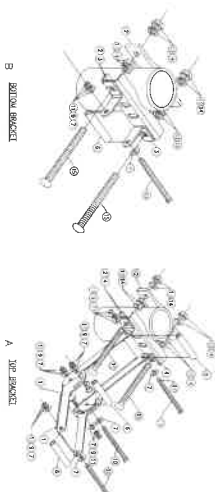
NOTE:  
ALL PIPES BRACKETS AND MISCELLANEOUS  
HARDWARE TO BE GALVANIZED UNLESS NOTED  
OTHERWISE.



SPECIFICATIONS  
MFG. ERICSSON  
MODEL: RADIO 4460  
DIMENSIONS: 19.4" x 15.7" x 12.4"  
WEIGHT: 103.62 lbs.

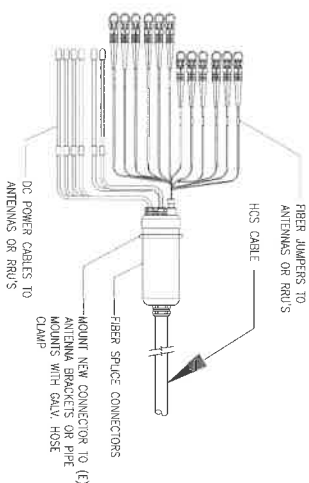
#### 4 ERICSSON RADIO 4460 - MOUNTING DETAIL

ITEM #	QUANTITY	PART NUMBER	DESCRIPTION
1	2	60725-1	ANTENNA MOUNTING BRACKET
2	2	60725-1	ANTENNA MOUNTING BRACKET
3	2	60725-1	ANTENNA MOUNTING BRACKET
4	2	60725-1	ANTENNA MOUNTING BRACKET
5	2	60725-1	ANTENNA MOUNTING BRACKET
6	2	60725-1	ANTENNA MOUNTING BRACKET
7	2	60725-1	ANTENNA MOUNTING BRACKET
8	2	60725-1	ANTENNA MOUNTING BRACKET
9	2	60725-1	ANTENNA MOUNTING BRACKET
10	2	60725-1	ANTENNA MOUNTING BRACKET
11	2	60725-1	ANTENNA MOUNTING BRACKET
12	2	60725-1	ANTENNA MOUNTING BRACKET
13	2	60725-1	ANTENNA MOUNTING BRACKET
14	2	60725-1	ANTENNA MOUNTING BRACKET
15	2	60725-1	ANTENNA MOUNTING BRACKET
16	2	60725-1	ANTENNA MOUNTING BRACKET
17	2	60725-1	ANTENNA MOUNTING BRACKET

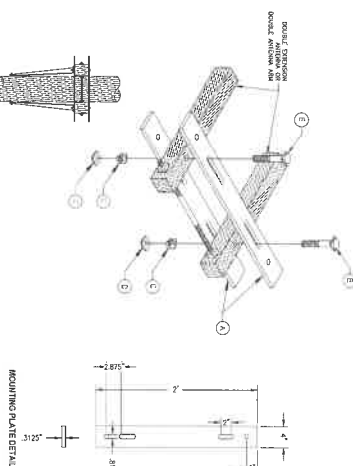


ITEM #	QUANTITY	PART NUMBER	DESCRIPTION
1	2	60725-1	ANTENNA MOUNTING BRACKET
2	2	60725-1	ANTENNA MOUNTING BRACKET
3	2	60725-1	ANTENNA MOUNTING BRACKET
4	2	60725-1	ANTENNA MOUNTING BRACKET
5	2	60725-1	ANTENNA MOUNTING BRACKET
6	2	60725-1	ANTENNA MOUNTING BRACKET
7	2	60725-1	ANTENNA MOUNTING BRACKET
8	2	60725-1	ANTENNA MOUNTING BRACKET
9	2	60725-1	ANTENNA MOUNTING BRACKET
10	2	60725-1	ANTENNA MOUNTING BRACKET
11	2	60725-1	ANTENNA MOUNTING BRACKET
12	2	60725-1	ANTENNA MOUNTING BRACKET
13	2	60725-1	ANTENNA MOUNTING BRACKET
14	2	60725-1	ANTENNA MOUNTING BRACKET
15	2	60725-1	ANTENNA MOUNTING BRACKET
16	2	60725-1	ANTENNA MOUNTING BRACKET
17	2	60725-1	ANTENNA MOUNTING BRACKET

#### 5 ANTENNA PIPE MOUNT



DC POWER CABLES TO ANTENNAS OR RRUS  
FIBER JUMPERS TO ANTENNAS OR RRUS  
FIBER SPLICER CONNECTORS  
MOUNT NEW CONNECTOR TO (E) ANTENNA BRACKETS OR PIPE MOUNTS WITH GALV. HOSE CLAMP



ITEM #	QUANTITY	PART NUMBER	DESCRIPTION
1	2	60725-1	ANTENNA MOUNTING BRACKET
2	2	60725-1	ANTENNA MOUNTING BRACKET
3	2	60725-1	ANTENNA MOUNTING BRACKET
4	2	60725-1	ANTENNA MOUNTING BRACKET
5	2	60725-1	ANTENNA MOUNTING BRACKET
6	2	60725-1	ANTENNA MOUNTING BRACKET
7	2	60725-1	ANTENNA MOUNTING BRACKET
8	2	60725-1	ANTENNA MOUNTING BRACKET
9	2	60725-1	ANTENNA MOUNTING BRACKET
10	2	60725-1	ANTENNA MOUNTING BRACKET
11	2	60725-1	ANTENNA MOUNTING BRACKET
12	2	60725-1	ANTENNA MOUNTING BRACKET
13	2	60725-1	ANTENNA MOUNTING BRACKET
14	2	60725-1	ANTENNA MOUNTING BRACKET
15	2	60725-1	ANTENNA MOUNTING BRACKET
16	2	60725-1	ANTENNA MOUNTING BRACKET
17	2	60725-1	ANTENNA MOUNTING BRACKET

#### 6 PIPE MOUNT TO DOUBLE ARM BRACKET

#### 1 ANTENNA MOUNTING DETAIL

SCALE: N.T.S.

#### 2 ANTENNA BRACKET ATTACHMENT DETAIL

SCALE: N.T.S.

#### 3 HCS DETAIL

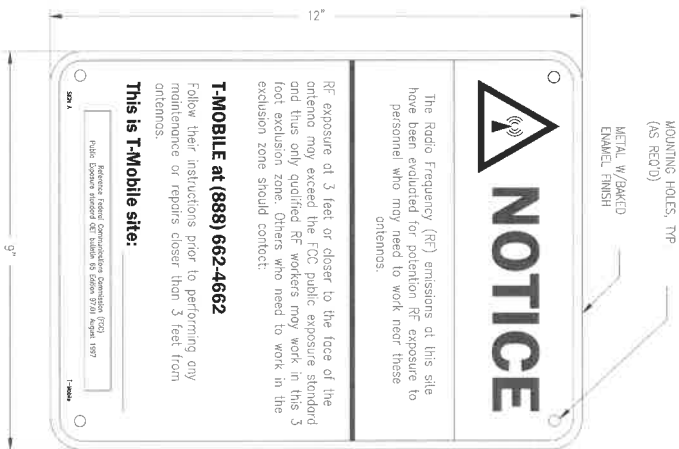
SCALE: N.T.S.

Mobile  
Network  
CONNETX  
DATE: 12-09-22  
ENGINEER: 12-09-22  
DRAWN BY: R.M.  
NO: 12-09-22  
REV: 90% CD  
2 03-13-23 Z.S.  
100% CD  
3 00-03-24 Z.S.  
UPDATE TO EST80.A0.12  
4 01-15-25 R.M.  
100% CD  
5 PER JX COMMENTS  
6  
7

SITE INFORMATION:  
LA02930A  
LA930 CITY OF LA  
PHANTOM IPA  
139 1/2 CILVER BLVD.  
PLAYA DEL REY, CA 90293  
STAMP:



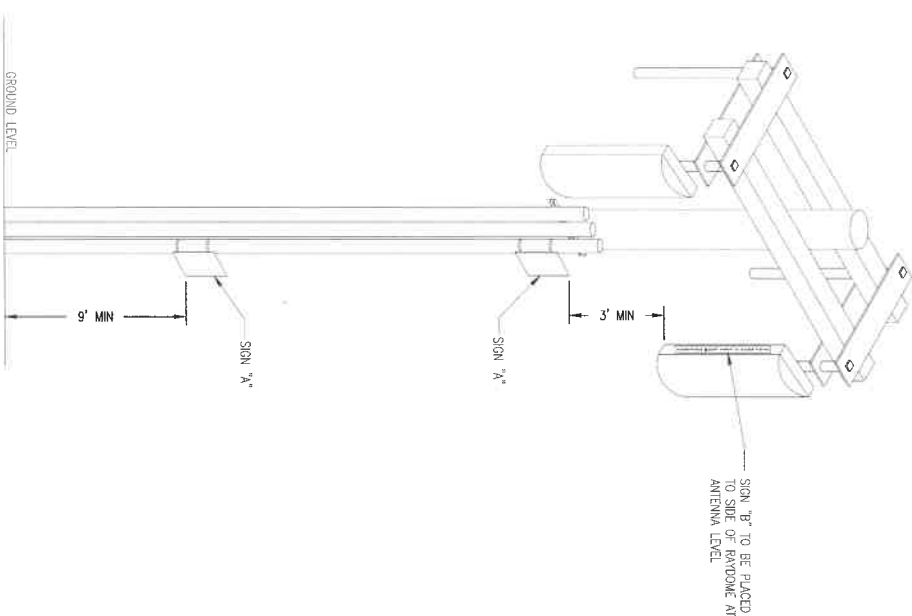
SHEET TITLE:  
MOUNTING  
DETAILS  
SHEET NUMBER:  
D-5



1. SIGN "A" IS TO BE MADE ON 32 MIL ALUMINUM SHEETING
2. SIZE SHALL BE 9" BY 12" WITH 3/4" MOUNTING HOLES IN EACH CORNER OF THE SIGN FOR OPTIONAL MOUNTING
3. SIGN SHALL COMPLY WITH ANSI C95.2 COLOR, SYMBOL, AND CONTENT CONVENTIONS.



1. SIGN "B" IS TO BE MADE ON A NON-METALLIC LABEL WITH AN ADHESIVE BACKING. THE LABEL MATERIAL WILL BE VINYL OR SIMILAR WATER-PROOF MATERIAL.
2. SIZE SHALL BE 1 1/2" BY 24"



# 1 JOINT UTILITY POLE ANTENNA SIGNAGE PLACEMENT

T-Mobile  
CROSS-SECTION (REAR VIEW)

NETWORK  
CONEX  
1045 Oak View Way, Suite 200, San Jose, CA 95128  
Phone: (415) 950-0000 Fax: (415) 950-0000

DATE: 12-09-22  
ENGINEER DATE: 12-09-22

DRAFTED BY: R.M.

NO.: 1 DATE: 12-09-22 BY: R.M.  
90% CD

2 03-13-23 Z.S.  
100% CD

3 09-03-24 Z.S.  
UPDATE TO E8160 JAC/VZ

4 01-15-25 R.M.  
100% CD

5 PER JX COMMENTS

6

7

SITE INFORMATION:  
LA02930A  
LA930 CITY OF LA  
PHANTOM JPA  
138 1/2 CULVER BLVD.  
PLAYA DEL REY, CA 90293  
SHEET:



SHEET TITLE:  
POLE  
DETAIL  
SHEET NUMBER: D-6



FINAL ANTENNA, TMA, BRUS, CABLE SCHEDULE

SECTOR	AZIMUTH	RAD CENTER	MFR./MODEL NO.	ANTENNA SIZE & WEIGHT	TYPE	QTY	TMA / DIVERSERS / BMS-1 / RMS	TYPE	QTY	CABLES	LENGTH	HYBRID CABLE SYSTEM
SECTOR ALPHA												
N200 N200	40	41'-6"	A60 6419 B41 (Active Antenna - Massive MIMO)	36.3'H x 20.9'W x 9.0'D (33.3 LBS)	NEW	1				(1) HIRSH (GTS TO SOUND) (2) FIBER JUMPER (SOUND TO ANTENNA)	96' 16'	
N600 L200 N600 L200 C100 L200 N200 L200	40	40'-6"	Commscope - FTY4-634-R6 (Indoor)	59.0'H x 19.60'W x 7.75'D (72 LBS)	NEW	1		4460	NEW	1	96' 16' 6'	ADD 10 AMP POWER CABLES AND 10 LOOSE FIBER CABLES FOR A60 6419 AND R60 4460/4460
SECTOR BETA												
N200 N200	150	41'-6"	A60 6419 B41 (Active Antenna - Massive MIMO)	36.3'H x 20.9'W x 9.0'D (33.3 LBS)	NEW	1				(1) HIRSH (GTS TO SOUND) (2) FIBER JUMPER (SOUND TO ANTENNA)	96' 16'	
N600 L200 N600 L200 C100 L200 N200 L200	150	40'-6"	Commscope - FTY4-634-R6 (Indoor)	59.0'H x 19.60'W x 7.75'D (72 LBS)	NEW	1		4460	NEW	1	96' 16' 6'	