



DISH Wireless SITE ID:

SFSFO01057B

DISH Wireless SITE ADDRESS:

**333 W EL CAMINO REAL
SUNNYVALE, CA 94087**

SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

SECTOR SCOPE OF WORK:

- PROPOSED ANTENNA LEASE AREA (180 SQ. FT.)
- PROPOSED ANTENNA LEASE AREA (60 SQ. FT.)
- REMOVE (6) EXISTING ANTENNAS (2 PER SECTOR)
- REMOVE (6) EXISTING RRH (2 PER SECTOR)
- REMOVE (1) EXISTING GPS ANTENNA
- REMOVE AND REPLACE (1) EXISTING SCREEN BOX W/ PROPOSED FRP SCREEN BOX
- REMOVE ALL EXISTING CABLES
- RE-USE EXISTING ANTENNA MOUNT AND TRI-POD
- RE-USE EXISTING FRP SCREEN WALL
- INSTALL (1) PROPOSED FRP SCREEN AT GAMMA SECTOR
- INSTALL (6) PROPOSED PANEL ANTENNAS (2 PER SECTOR)
- INSTALL (12) PROPOSED RRH (4 PER SECTOR)
- INSTALL (6) PROPOSED BACK-TO-BACK MOUNT
- INSTALL (6) PROPOSED OVP (2 PER SECTOR)
- INSTALL (1) PROPOSED GPS ANTENNA
- INSTALL (6) PROPOSED DC POWER TRUNKS (2 PER SECTOR)
- INSTALL (6) PROPOSED FIBER TRUNKS (2 PER SECTOR)
- INSTALL (24) PROPOSED JUMPERS

GROUND SCOPE OF WORK:

- PROPOSED 13'-0"x16'-0" LEASE AREA (208 SQ. FT.)
- INSTALL (1) PROPOSED EQUIPMENT CABINET
- INSTALL (1) PROPOSED 3'-0"x6'-0" CONCRETE PAD
- INSTALL (1) PROPOSED NEMA 3 TELCO-FIBER BOX
- INSTALL (1) PROPOSED CIENA CABINET
- INSTALL (1) PROPOSED DISCONNECT SWITCH
- INSTALL (1) PROPOSED POWER PANEL CABINET
- INSTALL (1) PROPOSED 200A ELECTRICAL METER
- INSTALL (1) PROPOSED GENERATOR PLUG
- INSTALL (1) PROPOSED MANUAL TRANSFER SWITCH
- INSTALL (1) PROPOSED TELCO CONDUIT
- INSTALL (1) PROPOSED POWER CONDUIT

SITE INFORMATION

PROPERTY OWNER: SUNNYVALE VILLAGE ASSOCIATES
333 W EL CAMINO REAL
SUNNYVALE, CA 94087

CONTACT: TOM BIAGINI
(408) 313-2300

COUNTY: SANTA CLARA

LATITUDE (NAD 83): 37.369325°

LONGITUDE (NAD 83): -122.035909°

ZONING JURISDICTION: SUNNYVALE

ZONING DISTRICT: 0 - ADMINISTRATIVE - PROFESSIONAL OFFICE

PARCEL NUMBER: 209-29-068

OCCUPANCY GROUP: 0 - ADMINISTRATIVE AND PROFESSIONAL OFFICE

CONSTRUCTION TYPE: I-A

POWER COMPANY: PG&E

TELEPHONE COMPANY: AT&T

PROJECT DIRECTORY

APPLICANT: DISH Wireless
5701 S. SANTA FE DRIVE
LITTLETOWN, CO 80120

SITE DESIGNER: GENARO CRUZ
1875 CORONADO AVE
SIGNAL HILL, CA 90755
PHONE: 714-443-8407

SITE ACQUISITION: QUALTEK Wireless
1200 DEL PASO RD. STE. 150
SACRAMENTO, CA 95843
DEREK TURNER
(925) 667-8115
Dturner@qualtekwireless.com

CONSTRUCTION MANAGER: JOSHUA ROBERSON
(949) 505-4225
Jroberson@qualtekwireless.com

RF ENGINEER: POOJA SHAH
5701 S. SANTA FE DRIVE
LITTLETOWN, CO 80120
(828) 216-4210
Pooja.shah@dish.com

CALIFORNIA - CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING	CALIFORNIA BUILDING CODE 2019 (CBC 2019)
MECHANICAL	CALIFORNIA MECHANICAL CODE 2019
ELECTRICAL	CALIFORNIA ELECTRICAL CODE 2019
FIRE CODE	INTERNATIONAL FIRE CODE 2018 (IFC 2018)

SITE PHOTO

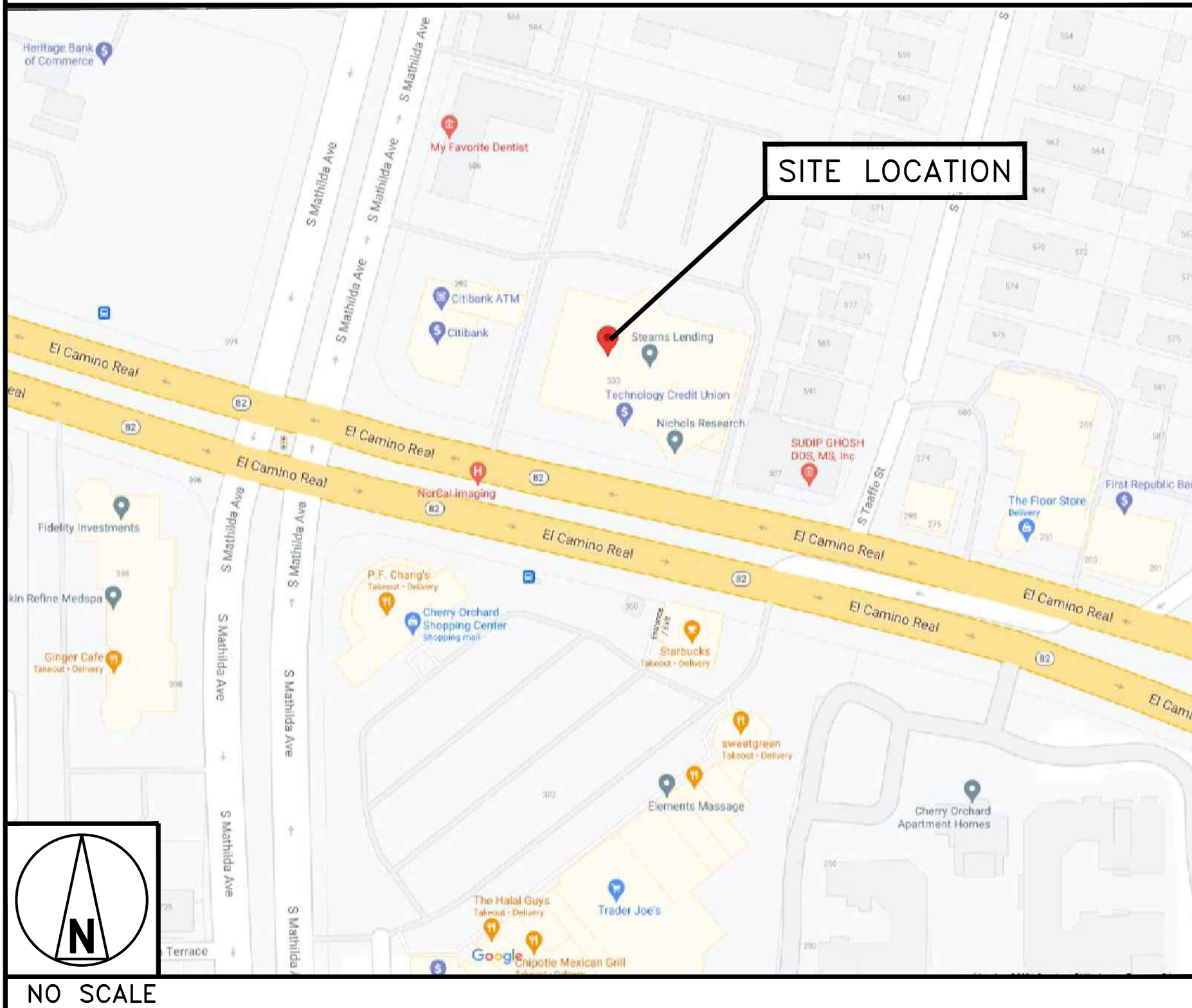


DIRECTIONS

DIRECTIONS FROM SAN FRANCISCO INTERNATIONAL AIRPORT:

HEAD SOUTH, KEEP LEFT, FOLLOW SIGNS FOR US-101 S/SAN JOSE AND MERGE ONTO US-101 S, TAKE EXIT 396A FOR MATHILDA AVE, USE THE RIGHT 2 LANES TO TURN RIGHT ONTO N MATHILDA AVE, USE THE RIGHT 2 LANES TO TURN RIGHT ONTO N MATHILDA AVE, MAKE A U-TURN, TURN RIGHT, DESTINATION WILL BE ON THE RIGHT.

VICINITY MAP



UNDERGROUND SERVICE ALERT
UTILITY NOTIFICATION CENTER OF CALIFORNIA
(800) 642-2444
WWW.CALIFORNIA811.ORG

CALL 2-14 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION



GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

11"x17" PLOT WILL BE HALF SCALE UNLESS OTHERWISE NOTED

CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND CONDITIONS ON THE JOB SITE, AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



1200 DEL PASO RD. STE. 150
SACRAMENTO, CA 95843

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DRAWN BY: GO
CHECKED BY: MO
APPROVED BY: GC

RFDS_REV_#3_ISSUED: 12/08/2021

ZONING DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
0	01/18/22	90% CONSTRUCTION DRAWING
1	03/18/22	JX COMMENTS
2	07/01/22	100% CONSTRUCTION DRAWING

A&E PROJECT NUMBER

SITE ID_4739

DISH Wireless
PROJECT INFORMATION
SFSFO01057B
333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.



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DISH Wireless
PROJECT INFORMATION

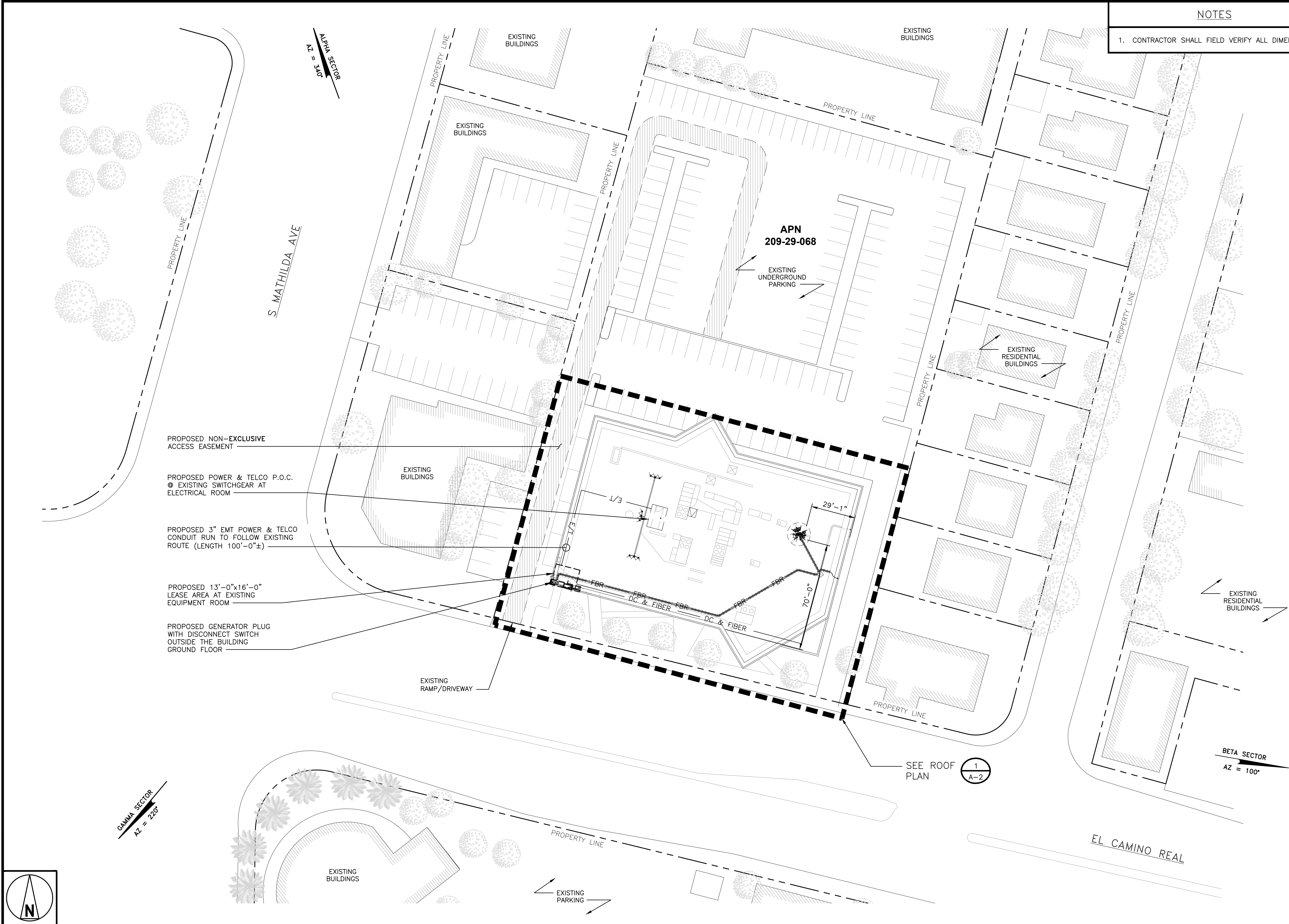
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333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

SHEET TITLE

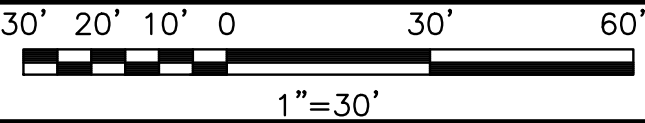
OVER ALL SITE PLAN

SHEET NUMBER

A-1



OVER ALL SITE PLAN



5701 SOUTH SANTA FE DRIVE
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GO	MO	GO
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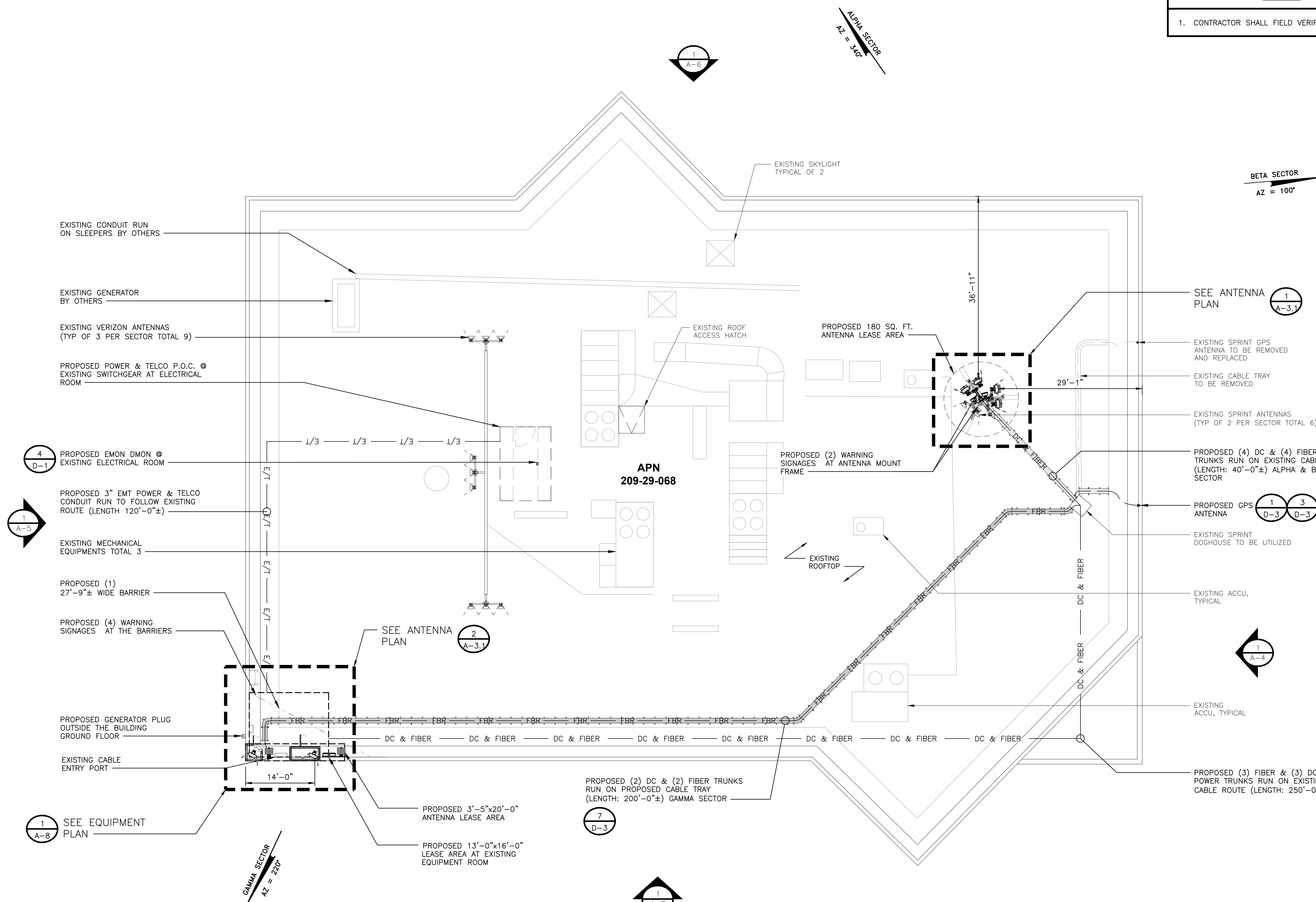
ROOF PLAN

SHEET NUMBER

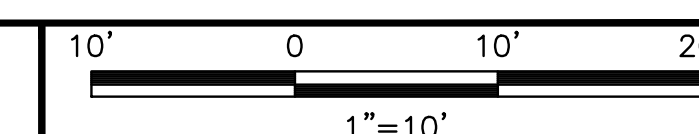
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NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS

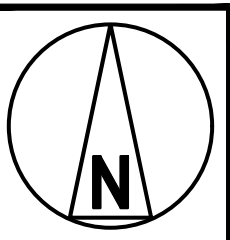
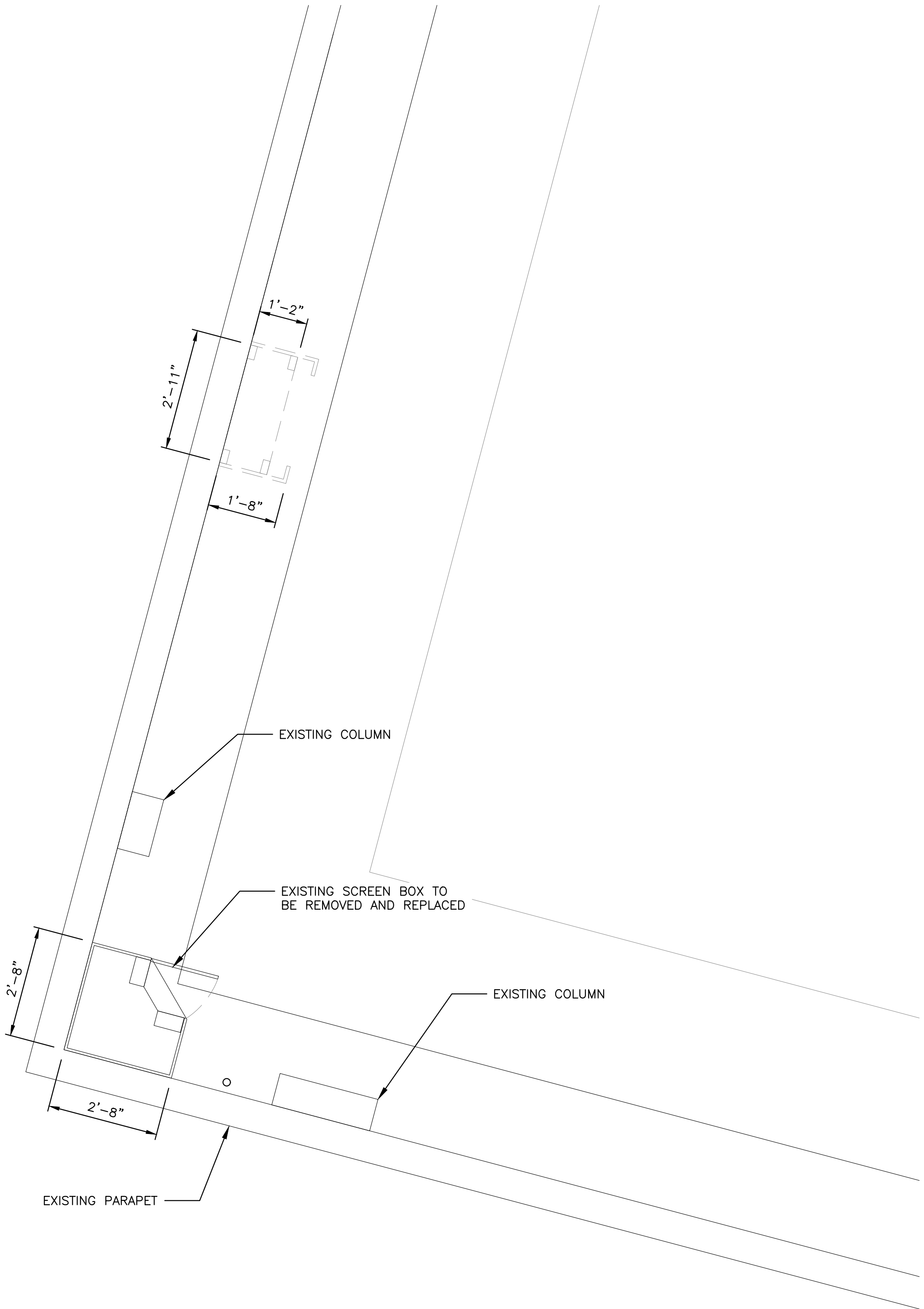
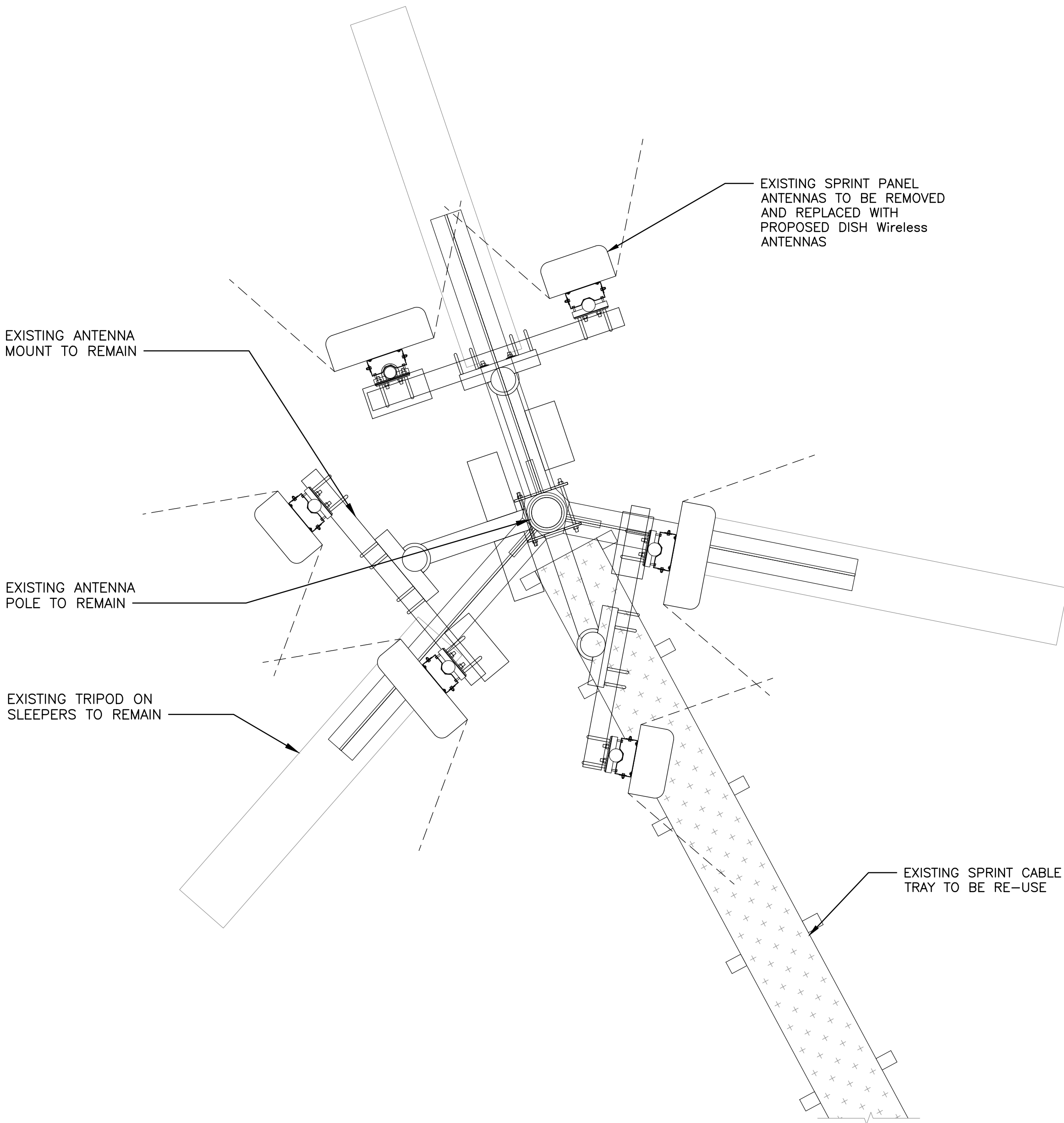


ROOF PLAN

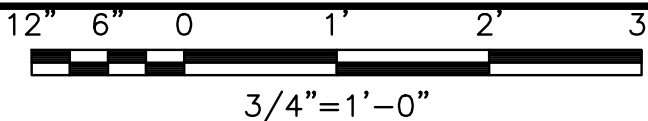


NOTES

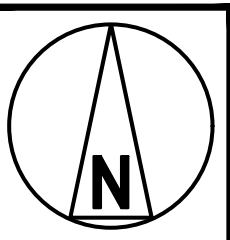
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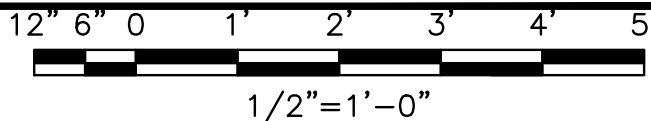
EXISTING ANTENNA PLAN



1



EXISTING SCREEN BOX



2



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LITTLETON, CO 80120



1200 DEL PASO RD. STE. 150
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GO MO GC

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A&E PROJECT NUMBER

SITE ID_4739

DISH Wireless
PROJECT INFORMATION

SFSF001057B
333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

SHEET TITLE
EXISTING ANTENNA PLAN
AND SCREEN BOX

SHEET NUMBER

A-3



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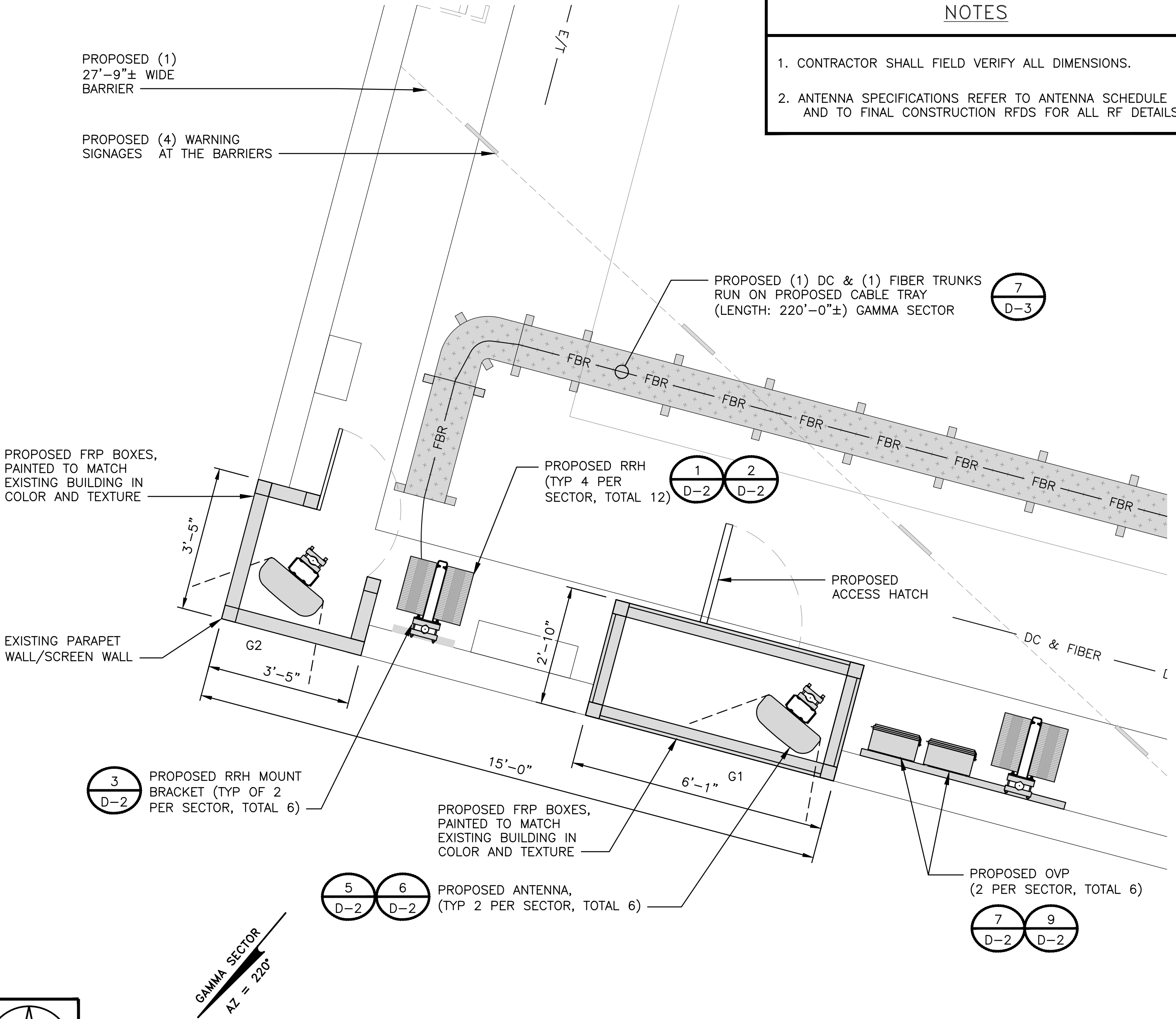
SHEET TITLE
PROPOSED ANTENNA PLAN
AND ANTENNA SCHEDULE

SHEET NUMBER

A-3.1

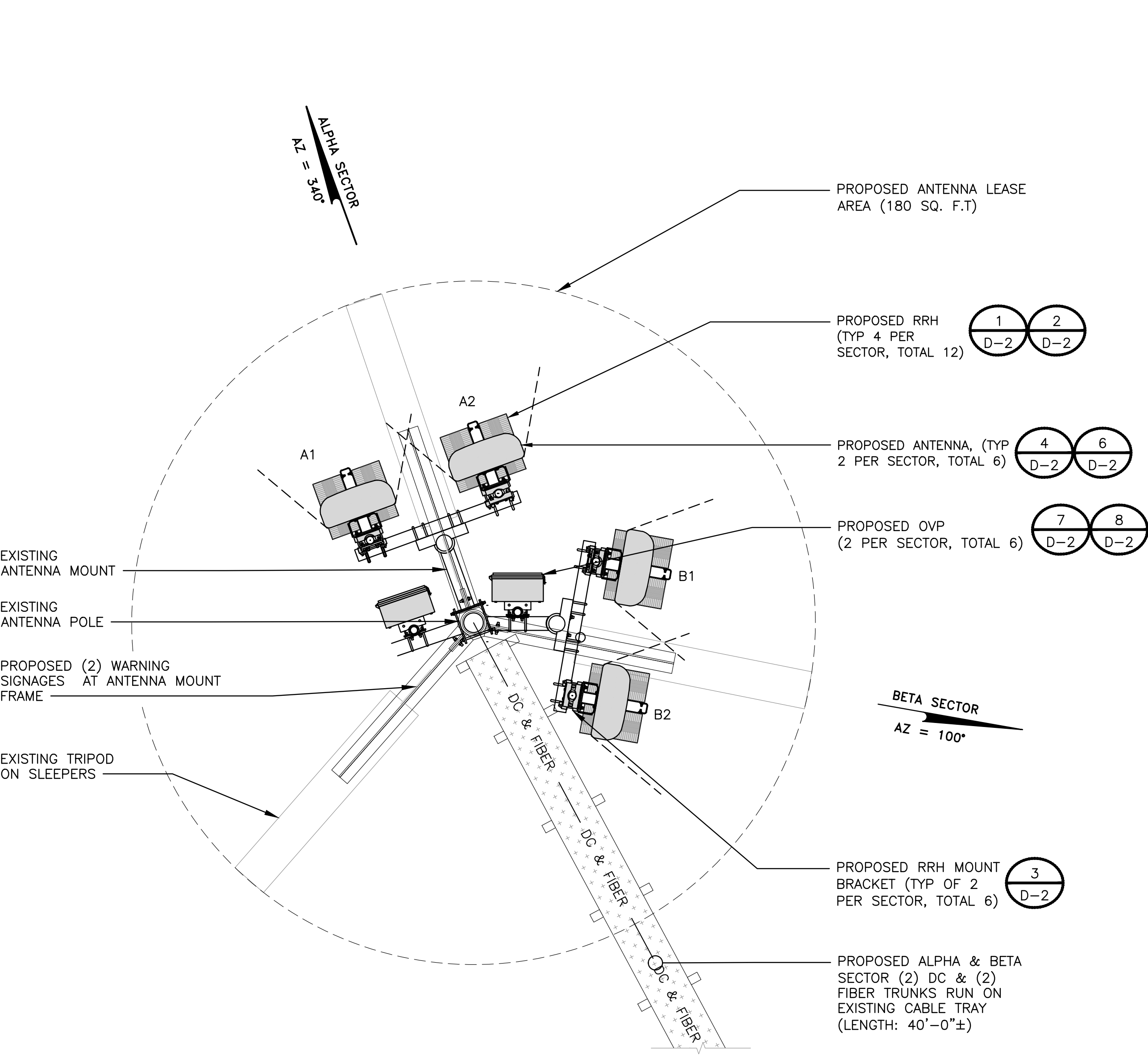
NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- ANTENNA SPECIFICATIONS REFER TO ANTENNA SCHEDULE AND TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS



ANTENNA PLAN – GAMMA SECTOR

2



ANTENNA PLAN –ALPHA AND BETA SECTOR

1

SECTOR	POSITION	ANTENNA							TRANSMISSION CABLE	
		EXISTING OR PROPOSED	MANUFACTURER – MODEL NUMBER	TECHNOLOGY	SIZE (HxWxD)	WEIGHT	AZIMUTH	RAD CENTER	FEED LINE TYPE AND LENGTH	
ALPHA	A1	PROPOSED	MX08FRO665–21	5G	72.0"x20.0"x8.0"	64.5 LBS	340°	57°–0"	(1) FIBER & (1) POWER (APPROX: 290')	
ALPHA	A2	PROPOSED	MX08FRO665–21	5G	72.0"x20.0"x8.0"	64.5 LBS	340°	57°–0"		
BETA	B1	PROPOSED	MX08FRO665–21	5G	72.0"x20.0"x8.0"	64.5 LBS	100°	57°–0"	(1) FIBER & (1) POWER (APPROX: 290')	
BETA	B2	PROPOSED	MX08FRO665–21	5G	72.0"x20.0"x8.0"	64.5 LBS	100°	57°–0"		
GAMMA	G1	PROPOSED	MX08FRO665–20	5G	72.0"x20.0"x8.0"	51.3 LBS	220°	46°–0"	(1) FIBER & (1) POWER (APPROX: 450')	
GAMMA	G2	PROPOSED	MX08FRO665–20	5G	72.0"x20.0"x8.0"	51.3 LBS	220°	46°–0"		

SECTOR	POSITION	RRH					NOTES
		MANUFACTURER – MODEL NUMBER	TECHNOLOGY	SIZE (HxWxD)	WEIGHT		
ALPHA	A1	FUJITSU TA08025–B605	5G	14.9"x15.7"x9"	74.95 LBS.		1. CONTRACTOR TO REFER TO FINAL CONSTRUCTION RFDS FOR ALL RF DETAILS. 2. ANTENNA AND RRH MODELS MAY CHANGE DUE TO EQUIPMENT AVAILABILITY. ALL EQUIPMENT CHANGES MUST BE APPROVED AND REMAIN IN COMPLIANCE WITH THE PROPOSED DESIGN AND STRUCTURAL ANALYSES.
	A1	FUJITSU TA08025–B604	5G	14.9"x15.7"x7.8"	63.93 LBS.		
	A2	FUJITSU TA08025–B605	5G	14.9"x15.7"x9"	74.95 LBS.		
	A2	FUJITSU TA08025–B604	5G	14.9"x15.7"x7.8"	63.93 LBS.		
BETA	B1	FUJITSU TA08025–B605	5G	14.9"x15.7"x9"	74.95 LBS.		
	B1	FUJITSU TA08025–B604	5G	14.9"x15.7"x7.8"	63.93 LBS.		
	B2	FUJITSU TA08025–B605	5G	14.9"x15.7"x9"	74.95 LBS.		
	B2	FUJITSU TA08025–B604	5G	14.9"x15.7"x7.8"	63.93 LBS.		
GAMMA	G1	FUJITSU TA08025–B605	5G	14.9"x15.7"x9"	74.95 LBS.		
	G1	FUJITSU TA08025–B604	5G	14.9"x15.7"x7.8"	63.93 LBS.		
	G2	FUJITSU TA08025–B605	5G	14.9"x15.7"x9"	74.95 LBS.		
	G2	FUJITSU TA08025–B604	5G	14.9"x15.7"x7.8"	63.93 LBS.		

ANTENNA SCHEDULE

3



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LITTLETON, CO 80120



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SACRAMENTO, CA 95843

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DRAWN BY: CHECKED BY: APPROVED BY:

GO MO GC

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ZONING DOCUMENTS

SUBMITTALS

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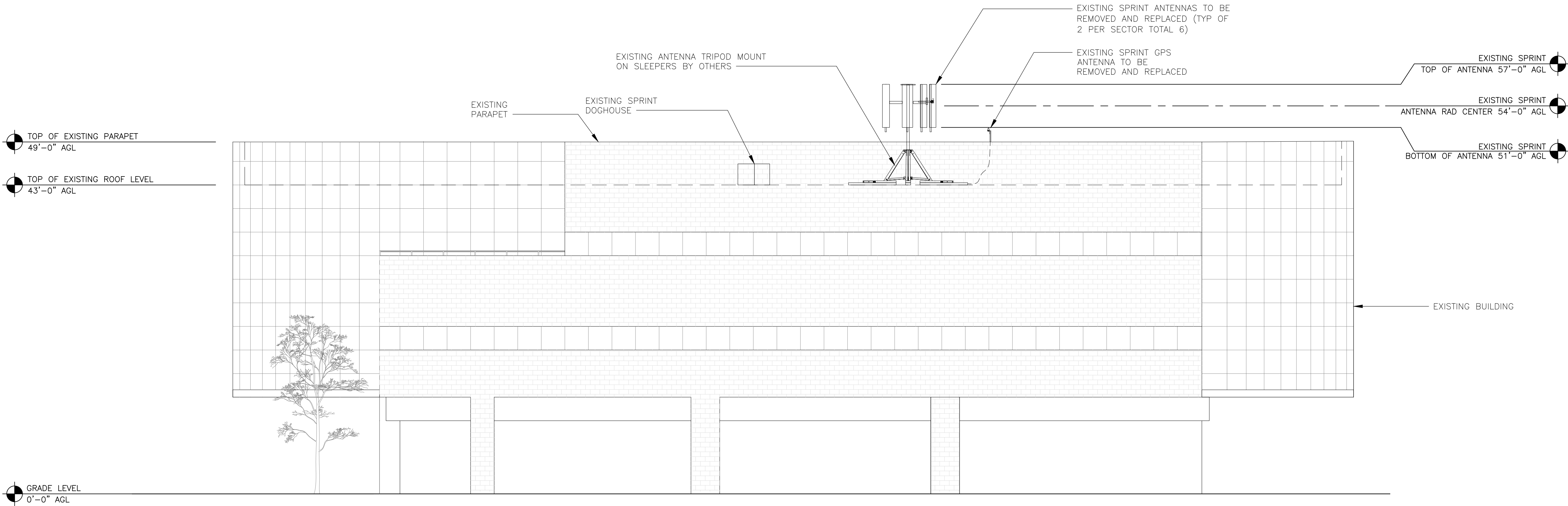
DISH Wireless
PROJECT INFORMATION

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333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

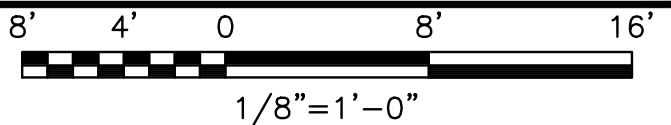
SHEET TITLE
EXISTING AND
PROPOSED ELEVATIONS

SHEET NUMBER

A-4



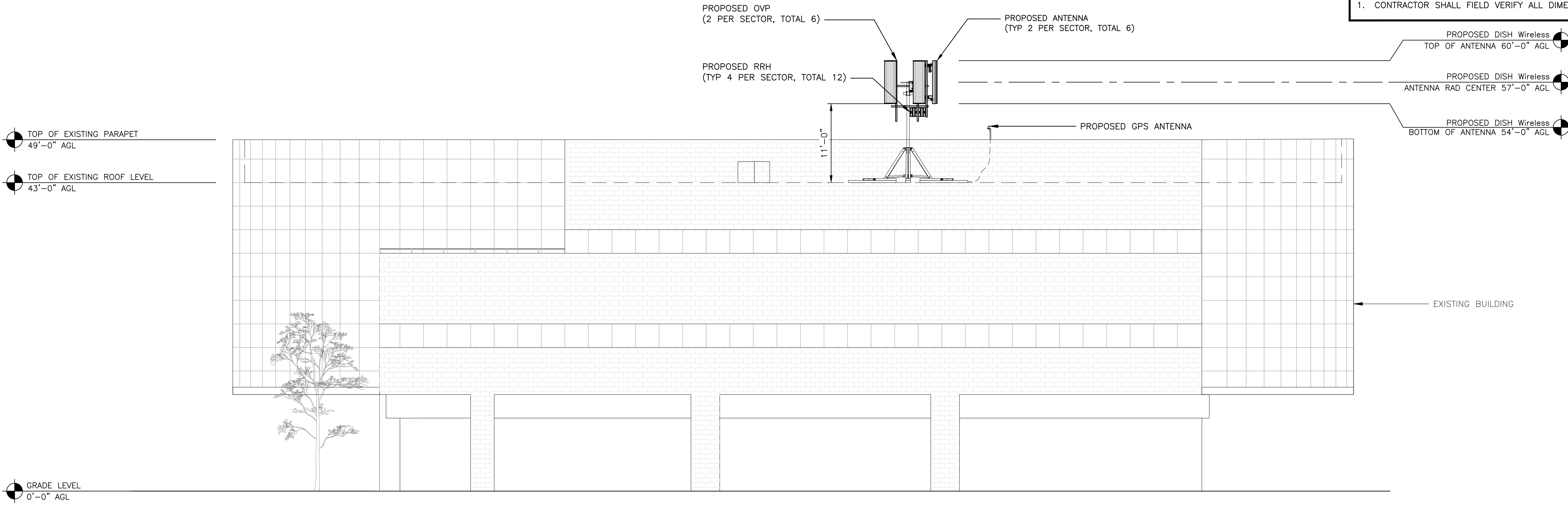
EXISTING ELEVATION (EAST)



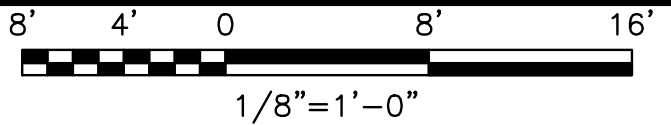
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NOTES

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PROPOSED ELEVATION (EAST)



2



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SHEET TITLE
EXISTING AND
PROPOSED ELEVATIONS

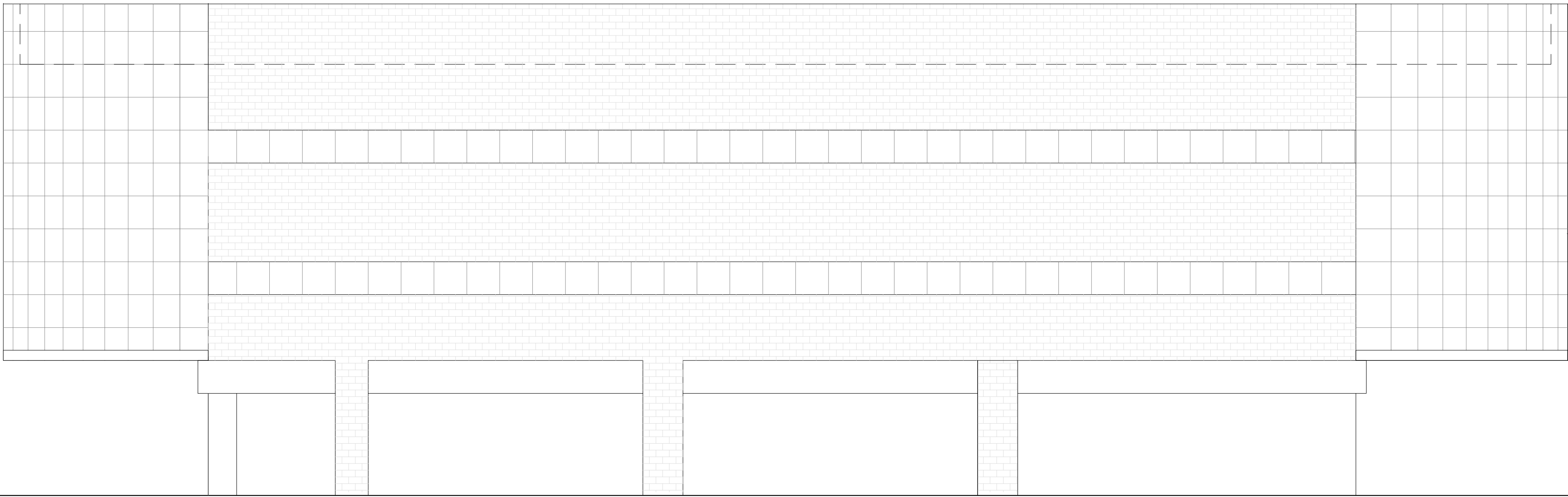
SHEET NUMBER

A-5

TOP OF EXISTING PARAPET
49'-0" AGL

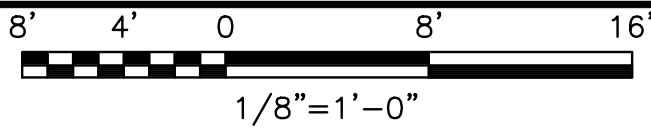
TOP OF EXISTING ROOF LEVEL
43'-0" AGL

GRADE LEVEL
0'-0" AGL



EXISTING BUILDING

EXISTING ELEVATION (WEST)



1

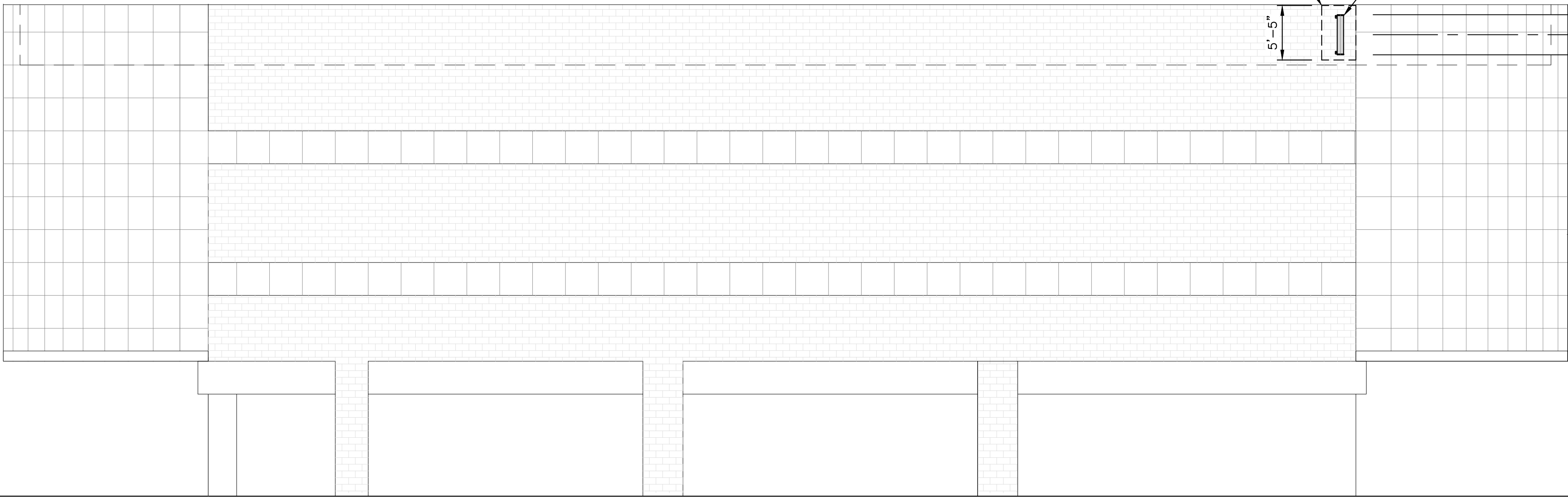
NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.

TOP OF EXISTING PARAPET
49'-0" AGL

TOP OF EXISTING ROOF LEVEL
43'-0" AGL

GRADE LEVEL
0'-0" AGL



PROPOSED FRP SCREEN BOX,
PAINTED TO MATCH EXISTING
BUILDING AND TEXTURE

PROPOSED ANTENNA MOUNTED
INSIDE PROPOSED FRP BOX
(TYP OF 2 AT GAMMA SECTOR)

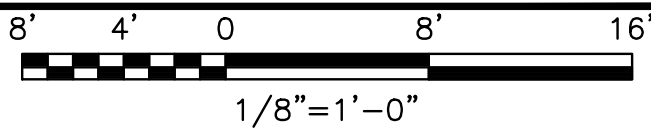
PROPOSED DISH Wireless
TOP OF ANTENNA 48'-0" AGL

PROPOSED DISH Wireless
ANTENNA RAD CENTER 46'-0" AGL

PROPOSED DISH Wireless
BOTTOM OF ANTENNA 44'-0" AGL

EXISTING BUILDING

PROPOSED ELEVATION (WEST)



2



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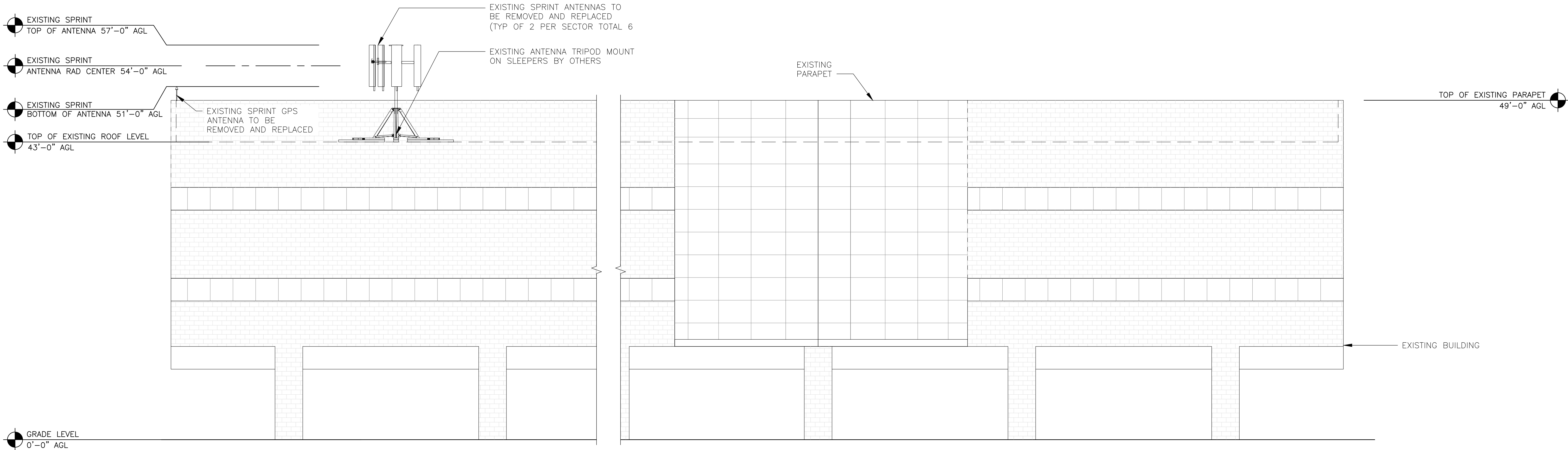
DISH Wireless
PROJECT INFORMATION

SFSF001057B
333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

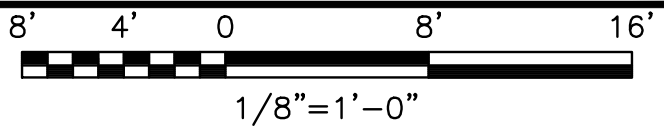
SHEET TITLE
EXISTING AND
PROPOSED ELEVATIONS

SHEET NUMBER

A-6



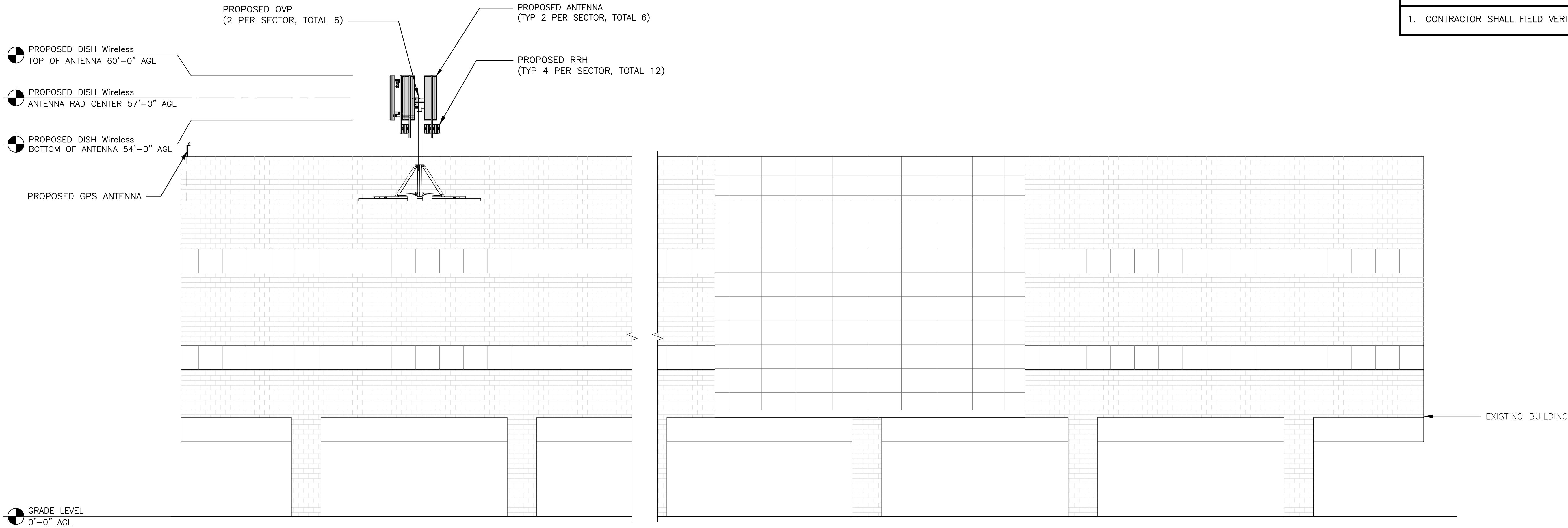
EXISTING ELEVATION (NORTH)



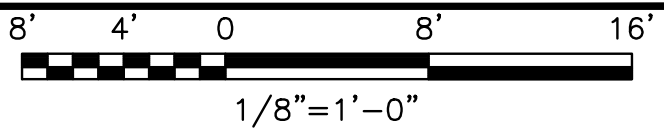
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PROPOSED ELEVATION (NORTH)



2



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RFDS_REV_#3_ISSUED: 12/08/2021

ZONING DOCUMENTS

SUBMITTALS

REV	DATE	DESCRIPTION
0	01/18/22	90% CONSTRUCTION DRAWING
1	03/18/22	JX COMMENTS
2	07/01/22	100% CONSTRUCTION DRAWING

A&E PROJECT NUMBER

SITE ID_4739

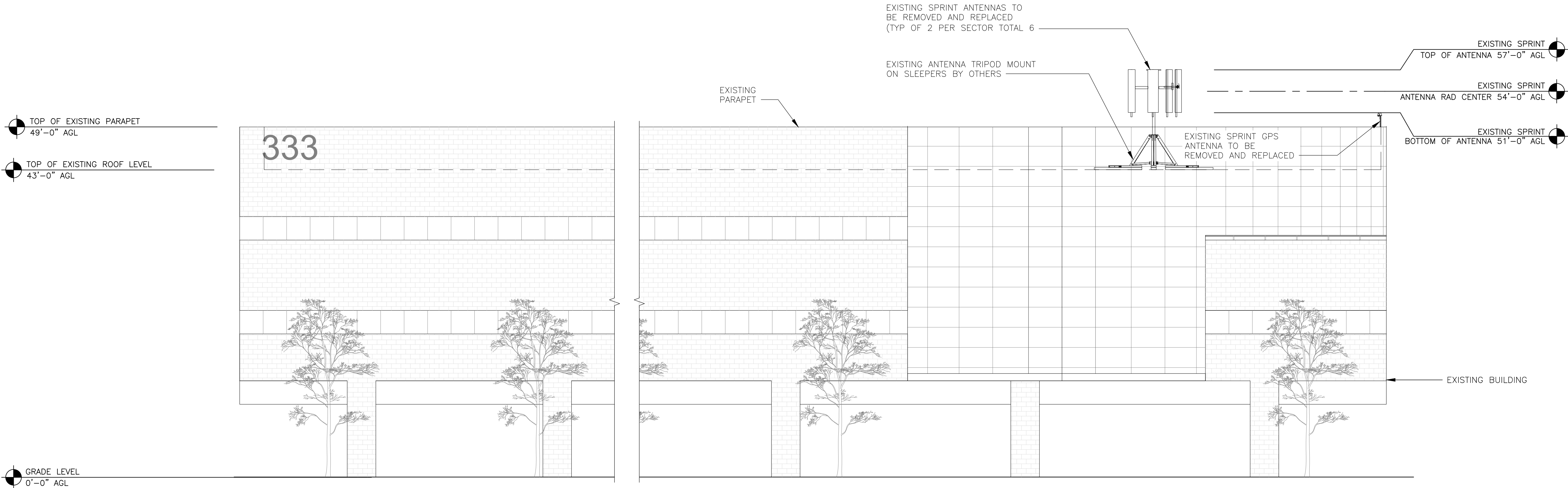
DISH Wireless
PROJECT INFORMATION

SFSF001057B
333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

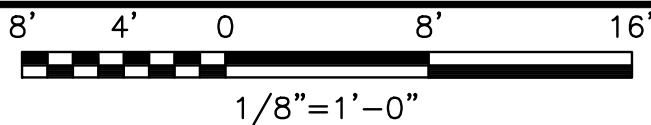
SHEET TITLE
EXISTING AND
PROPOSED ELEVATIONS

SHEET NUMBER

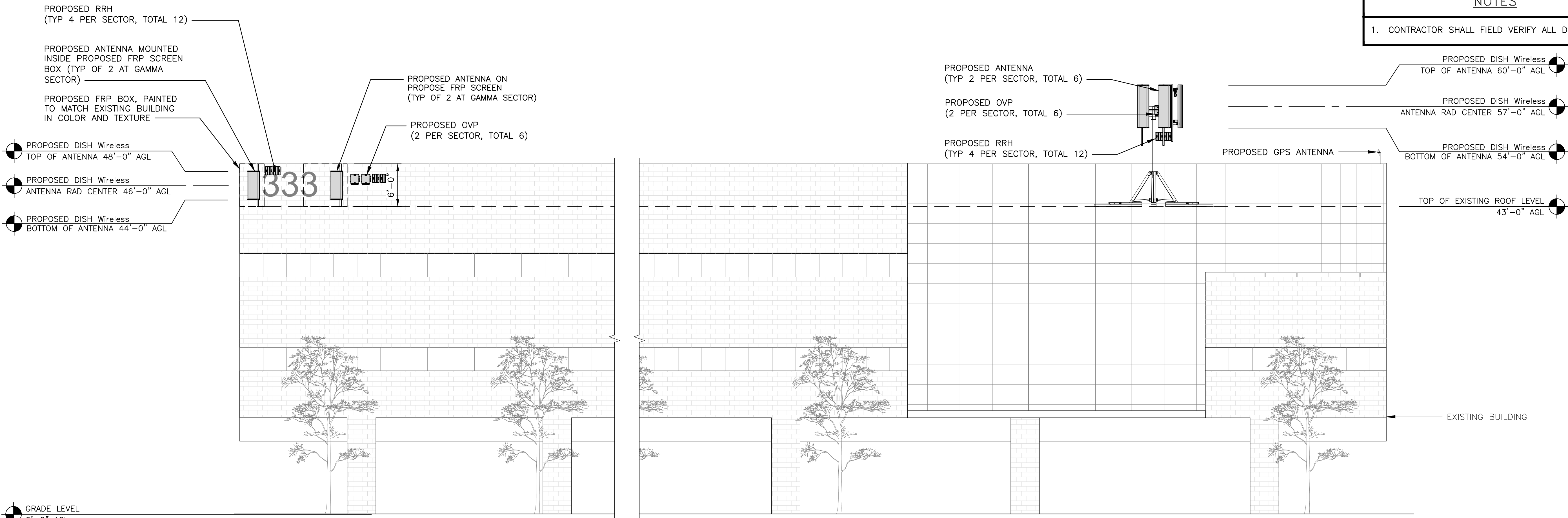
A-7



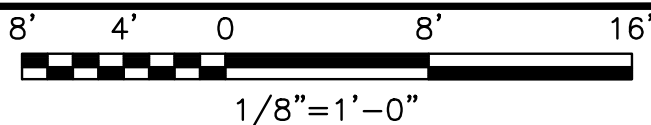
EXISTING ELEVATION (SOUTH)



1



PROPOSED ELEVATION (SOUTH)



2



5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120



1200 DEL PASO RD. STE. 150
SACRAMENTO, CA 95843

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DISH Wireless
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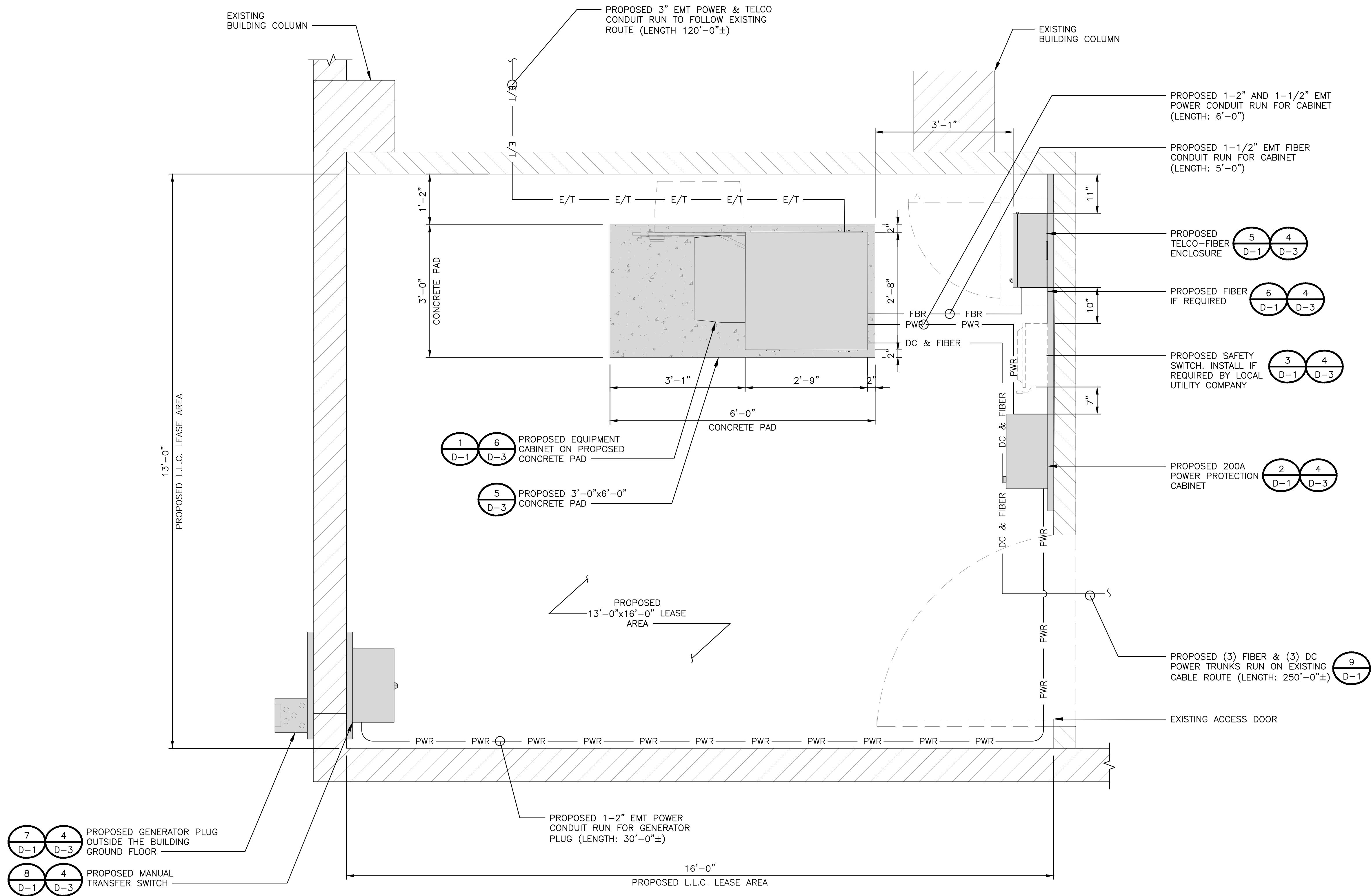
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333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

SHEET TITLE

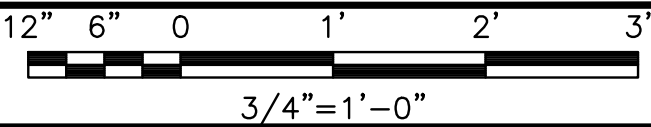
EQUIPMENT PLAN

SHEET NUMBER

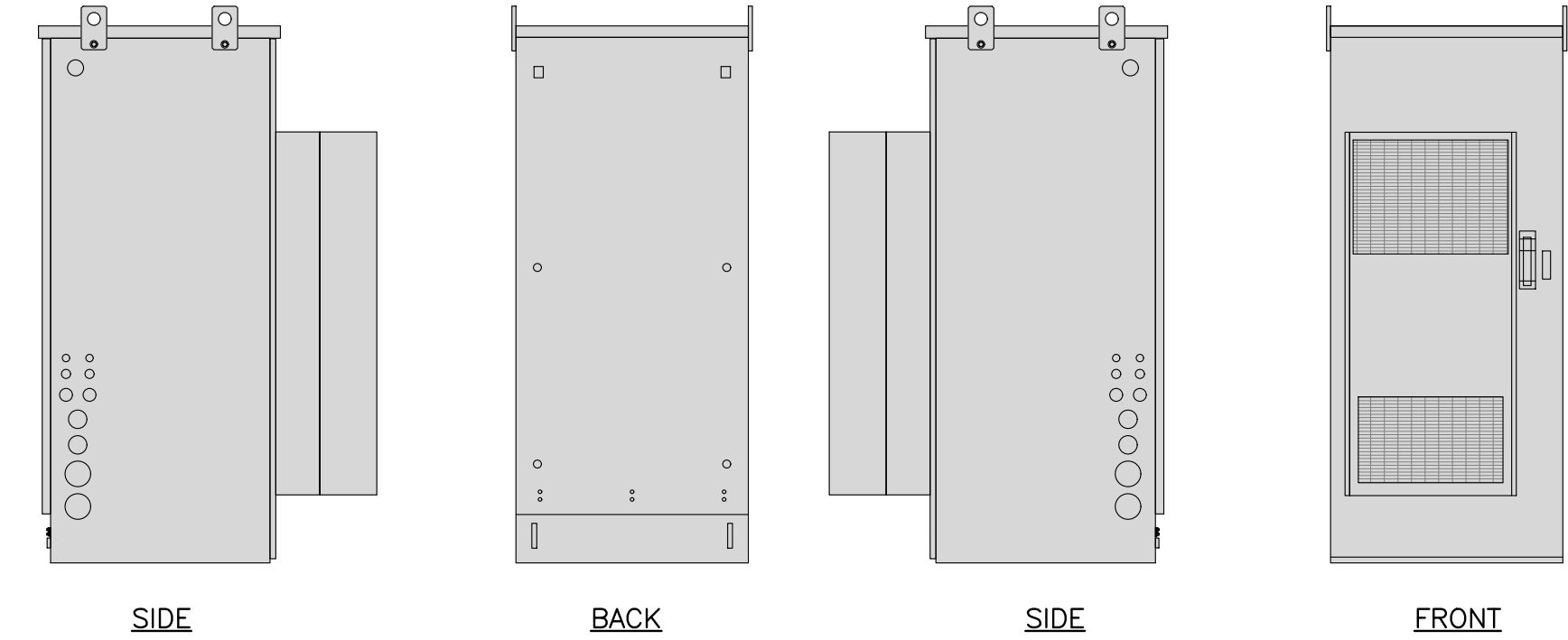
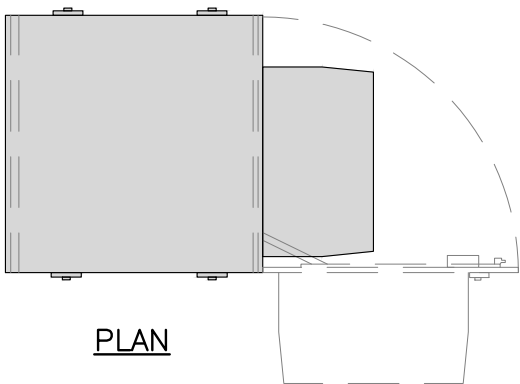
A-8



EQUIPMENT PLAN @ BASEMENT LEVEL



CHARLES INDUSTRY HEX CUBE-PM639155N4	
DIMENSIONS (HxWxD):	74"x32"x32"
POWER PLANT:	-48VDC ABB/600W
TOTAL WEIGHT (EMPTY)	408 LBS

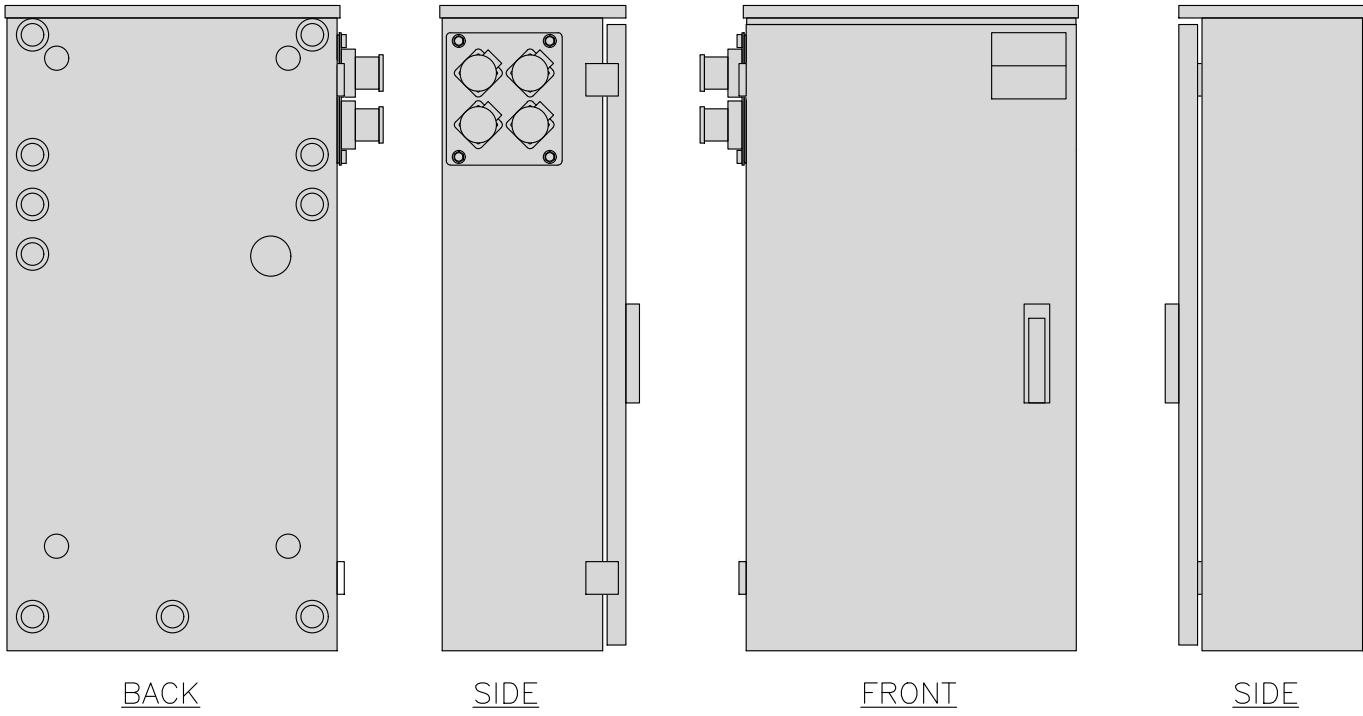


CABINET DETAIL

NO SCALE

1

RAYCAP PPC RDIAC-2465-P-240-MTS	
ENCLOSURE DIMENSIONS (HxWxD):	39"x22.855"x12.593
WEIGHT:	80 lbs
OPERATING AC VOLTAGE	240/120 1 PHASE 3W+G

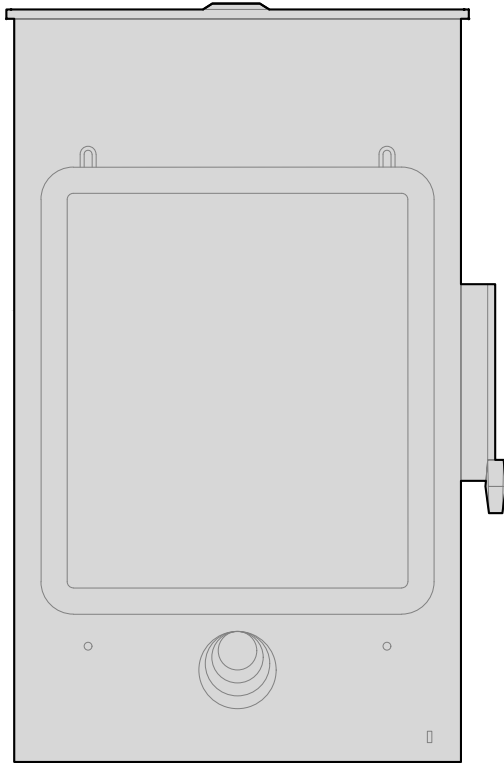
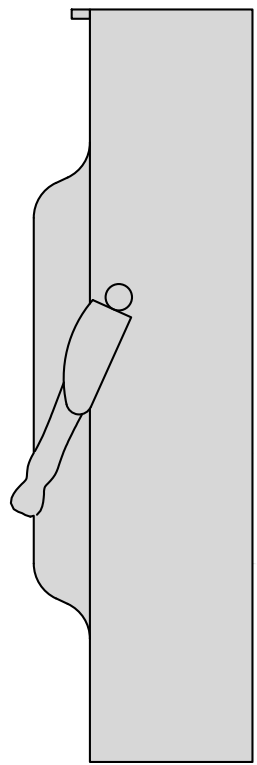
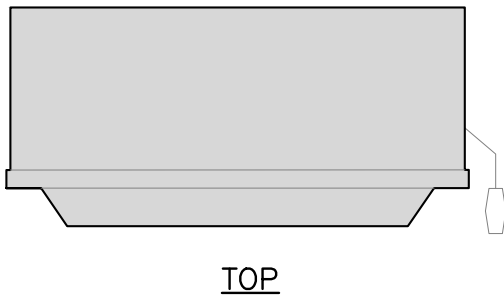


POWER PROTECTION CABINET (PPC) DETAIL

NO SCALE

2

SQUARE D SAFETY SWITCHES D224NRB	
ENCLOSURE DIM (HxWxD)	29.25"x19.00"x8.50"
ENCLOSURE TYPE	NEMA 3R RAINPROOF
UL LISTED	FILE E-2875

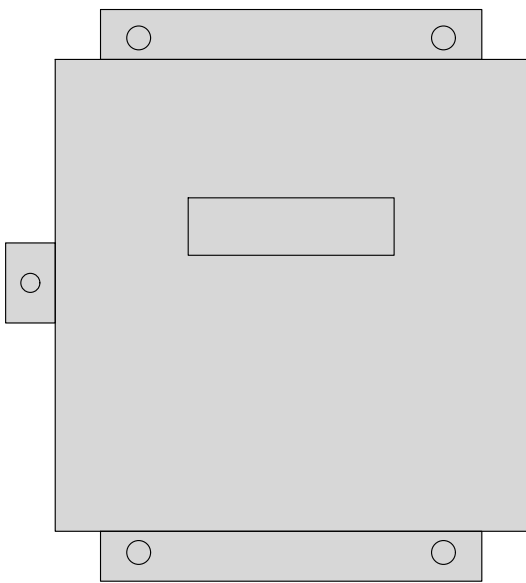
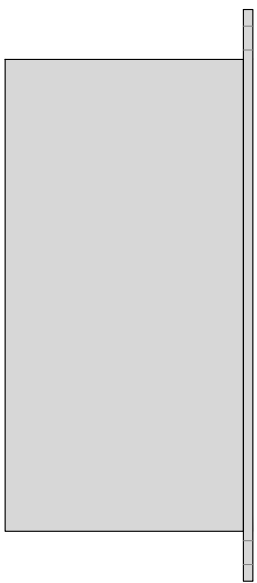
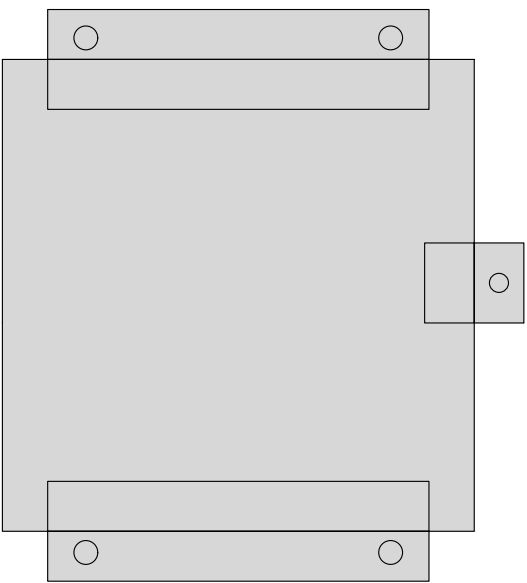


SAFETY SWITCH DETAIL

NO SCALE

3

LEVITON 1N240-21 SUBMETER	
WATTAGE	3
AMPS	200
VOLTS AC	120, 208, 240
PHASE	1

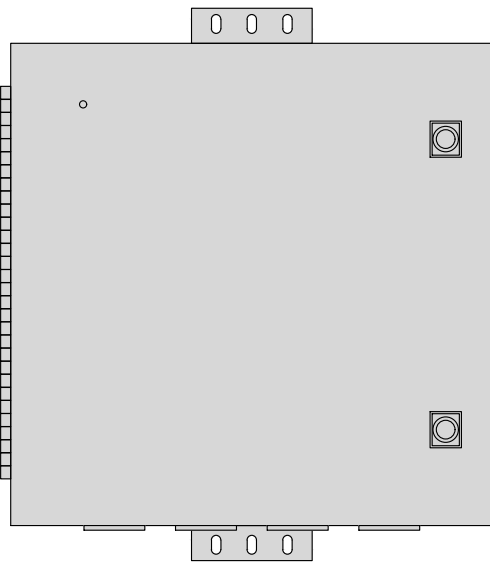
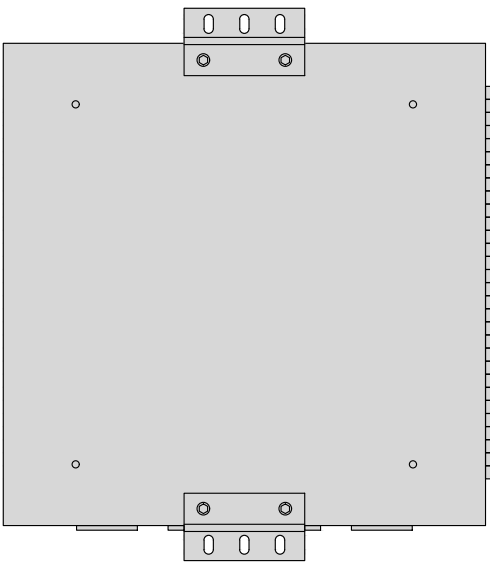
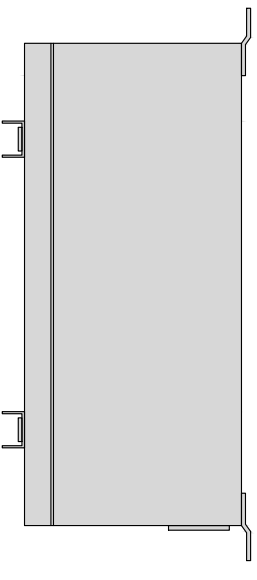
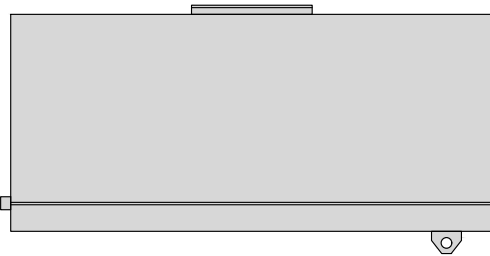


E-MON D-MON DETAIL

NO SCALE

4

CHARLES CFIT-PF2020DSH1 FIBER TELCO ENCLOSURE	
ENCLOSURE DIMS (HxWxD)	20"x20"x9"
ENCLOSURE WEIGHT	20 lbs
MOUNTING	WALL
COMPLIANCE	TYPE 4

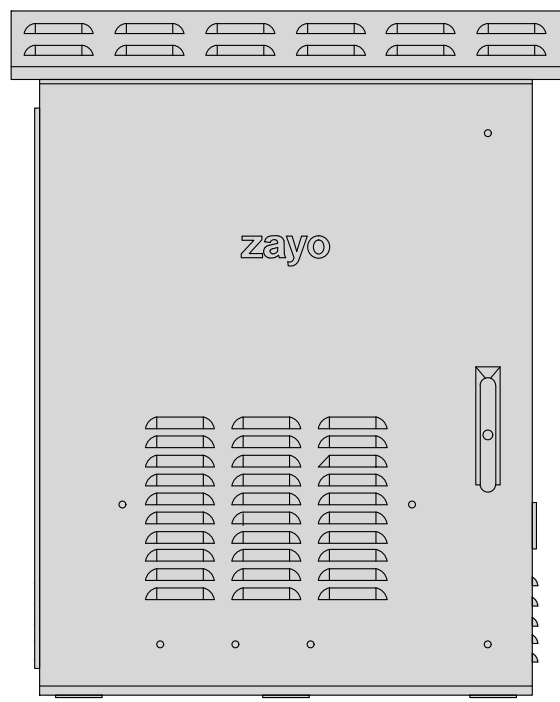
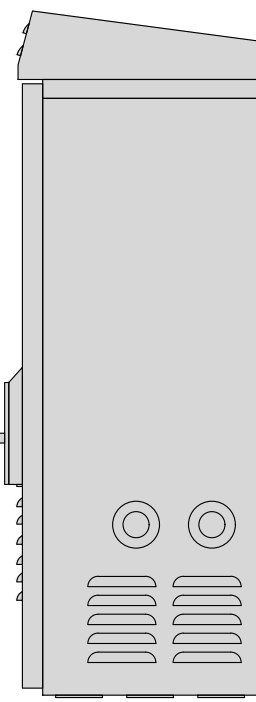
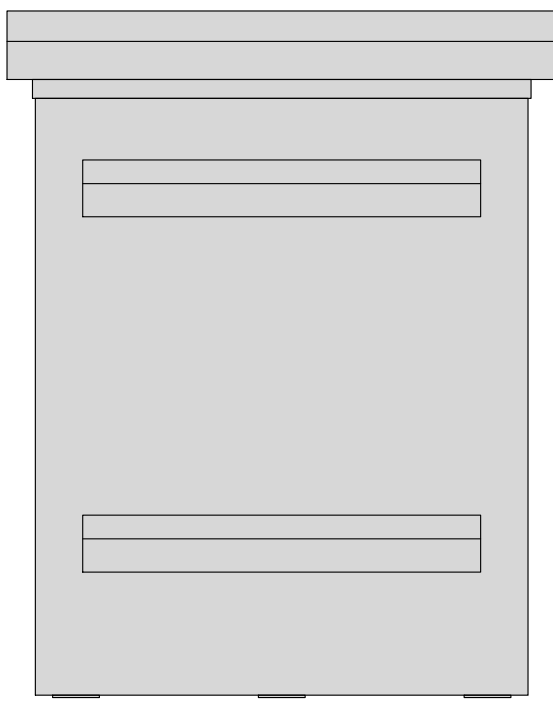
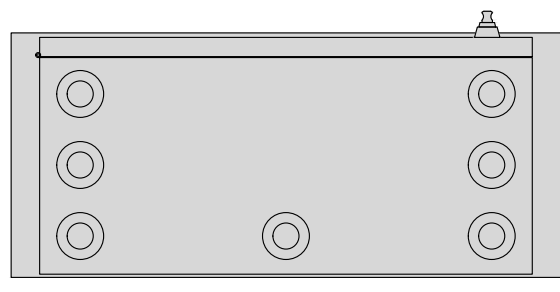


FIBER TELCO ENCLOSURE DETAIL

NO SCALE

5

ZAYO 5RU (LEFT SWING DOOR) FIBER NID ENCLOSURE	
DIMENSIONS (HxWxD)	36.1"x29"x12.9"
WEIGHT	85 lbs

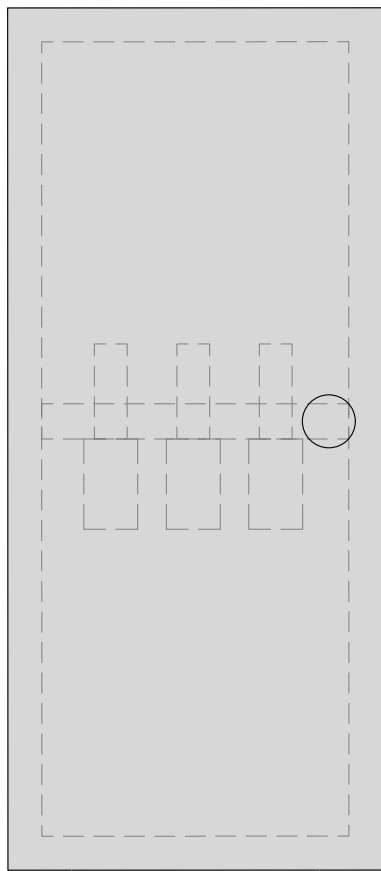
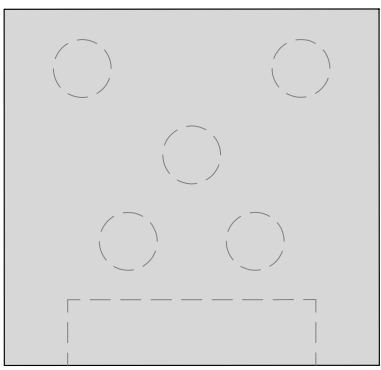


FIBER NID ENCLOSURE DETAIL

NO SCALE

6

INTERSECT CAM-LOCK GENERATOR CONNECTOR	
ENCLOSURE DIMS (HxWxD)	23"x10"x9.5"
ENCLOSURE WEIGHT	14 lbs
MOUNTING	WALL
CAM-LOCK TERMINAL ACCEPTANCE: PLUG	200A, #2-4/0 AWG
CAM-LOCK TERMINAL ACCEPTANCE: RECEPTACLE	200A, #2-4/0 AWG

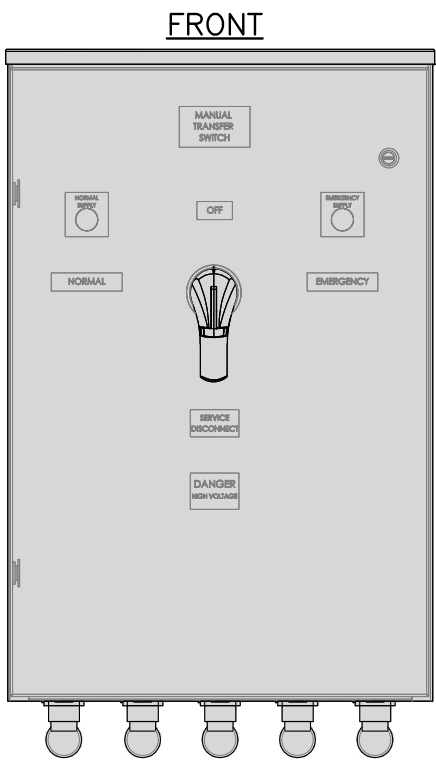
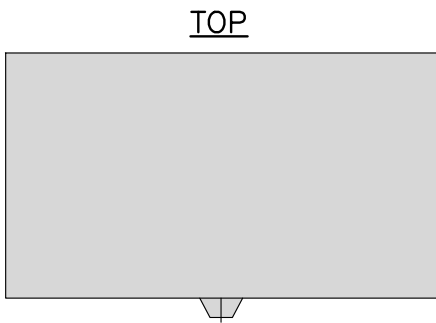
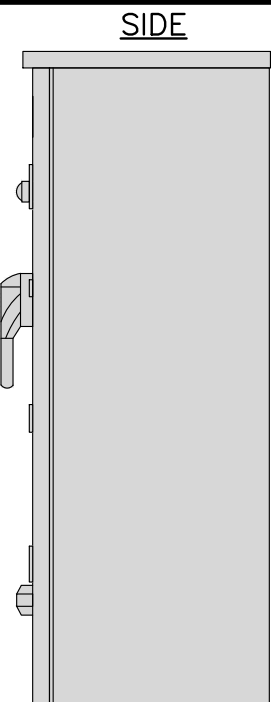


GENERATOR CONNECTOR DETAIL

NO SCALE

7

PSI CONTROL SOLUTIONS 200A FUSIBLE 2-POLE NEMA 3R MANUAL TRANSFER SWITCH	
ENCLOSURE DIM (HxWxD)	36.00"x24.0"x12.0"
TOTAL WEIGHT (EMPTY)	150 LBS
MAX VOLTAGE/RATED CURRENT	600VAC/ 200A
ENCLOSURE RATING	NEMA 3R

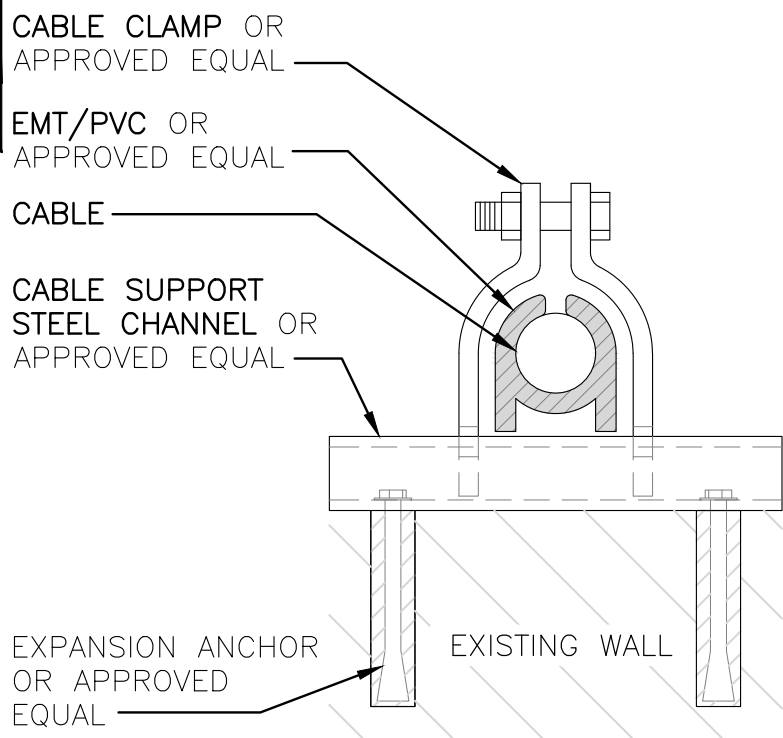
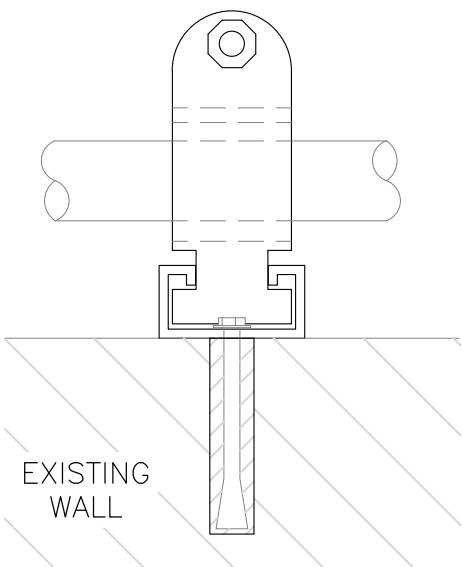


MANUAL TRANSFER SWITCH DETAIL

NO SCALE

8

CABLE WALL MOUNT SUPPORT	
UNISTRUT TYPE	GRAINGER P1000T
UNISTRUT DIMENSIONS (HxWxL)	1 5/8"x 1 5/8"x 12"
WEIGHT/ VOLUME	1.85 LB PER FOOT
ULTIMATE LOAD CAPACITY	718.5 LB
NOTES: 1. ALL HARDWARE AND PARTS SHALL BE HOT DIPPED GALVANIZED WITH LOCK WASHERS AND HEAVY HEX NUTS. 2. VERTICAL CABLE MOUNT: 4'-0" MAX. UNISTRUT SEPARATION 3. HORIZONTAL CABLE MOUNT: 3'-0" MAX UNISTRUT SEPARATION	



CABLE WALL MOUNT SUPPORT DETAIL

NO SCALE

9

dish
wireless™

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

QUALTEK
WIRELESS

1200 DEL PASO RD. STE. 150
SACRAMENTO, CA 95843

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SITE ID_4739

DISH Wireless
PROJECT INFORMATION

SFSF001057B
333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

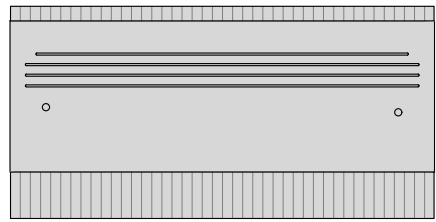
SHEET TITLE

EQUIPMENT DETAILS

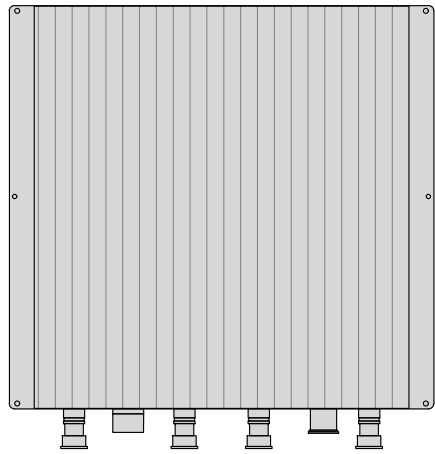
SHEET NUMBER

D-1

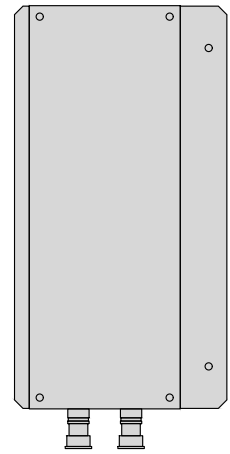
FUJITSU DUAL BAND TA08025-B604	
DIMENSIONS (HxWxD)	14.9"x15.7"x7.8"
WEIGHT	63.9 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



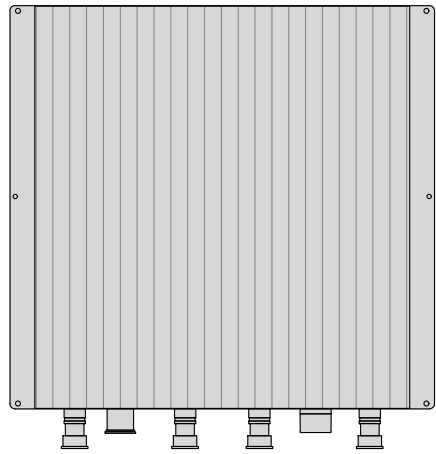
PLAN



BACK

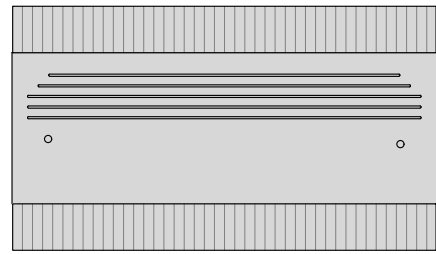


SIDE

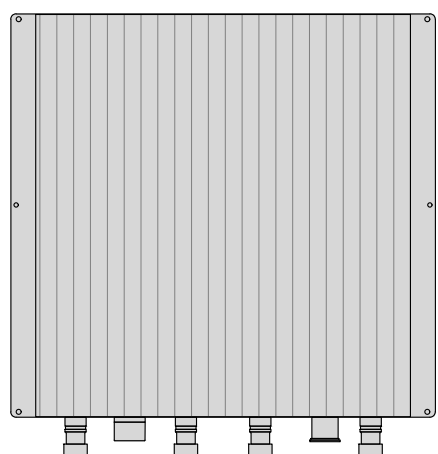


FRONT

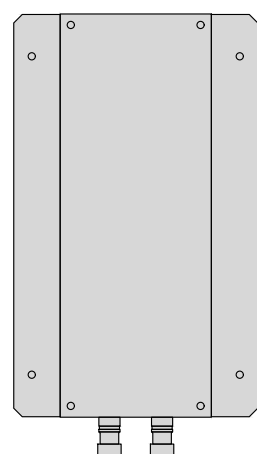
FUJITSU TRIPLE BAND TA08025-B605	
DIMENSIONS (HxWxD)	14.9"x15.7"x9"
WEIGHT	74.95 lbs
CONNECTOR TYPE	4.3-10 RF CONNECTOR
POWER SUPPLY	DC -58~-36V



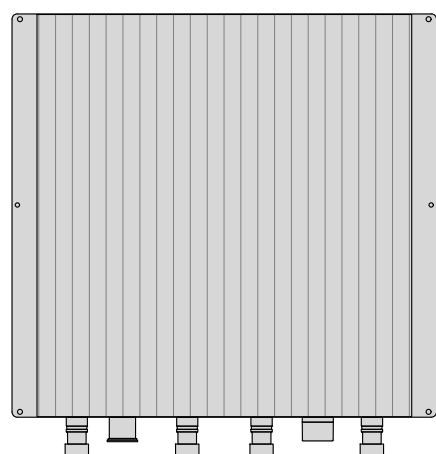
PLAN



BACK



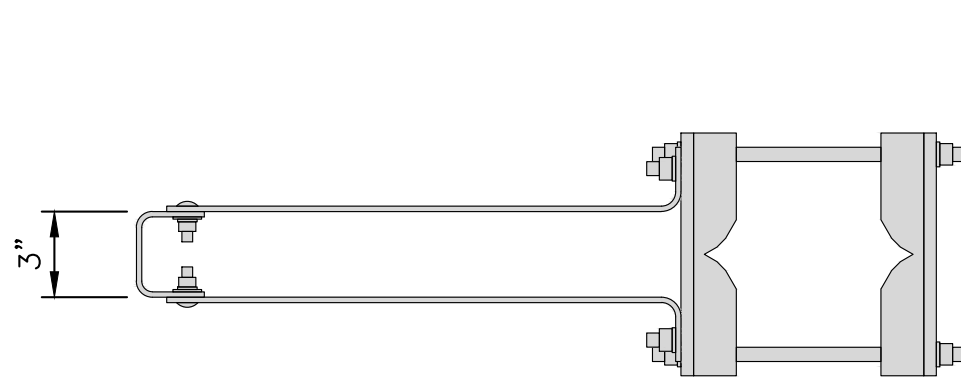
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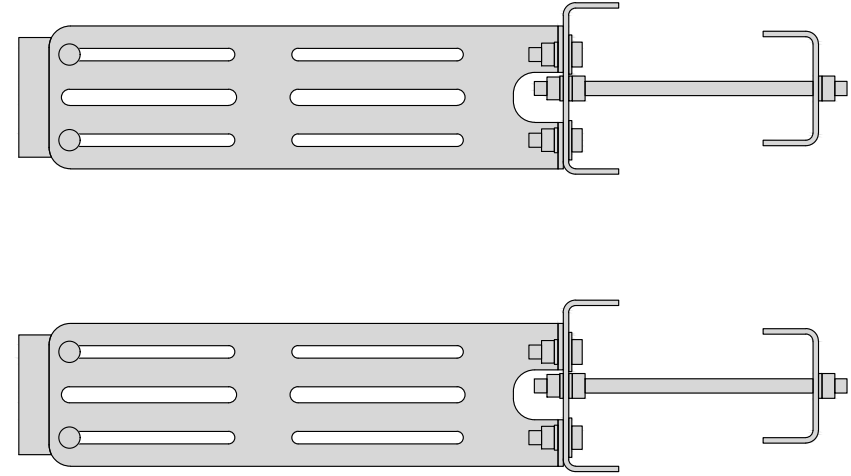
FRONT

COMMSCOPE RR-FA2 SMALL STABILIZER	
DIMENSIONS (HxWxD)	16.4"x8.5"x18"
WEIGHT	39.2 lbs

DESIGN NOTES:
MOUNT WILL FIT LEGS UP TO:
- 5.6" ROUND
- 6.0" 60° ANGLE
- 4.5" 90° ANGLE



PLAN



SIDE

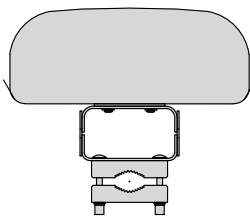
NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

RRH DETAIL

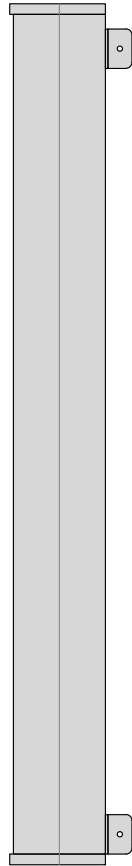
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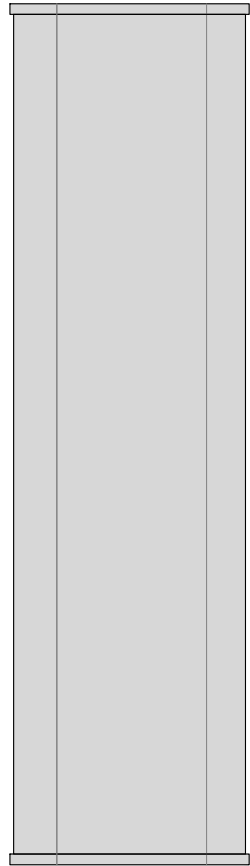
JMA MX08FRO665-21	
DIMENSIONS (HxWxD)	72"x20.0"x8.0"
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE
WEIGHT	64.5 lbs
WEIGHT WITH BRACKETS	82.5 lbs



PLAN

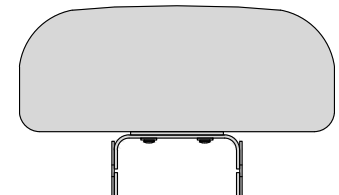


SIDE

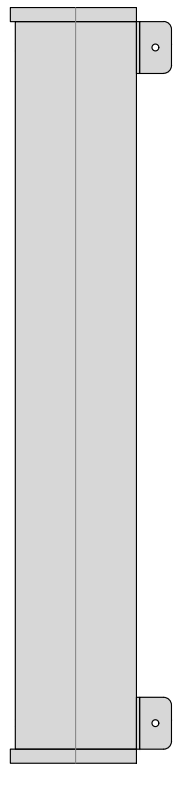


FRONT

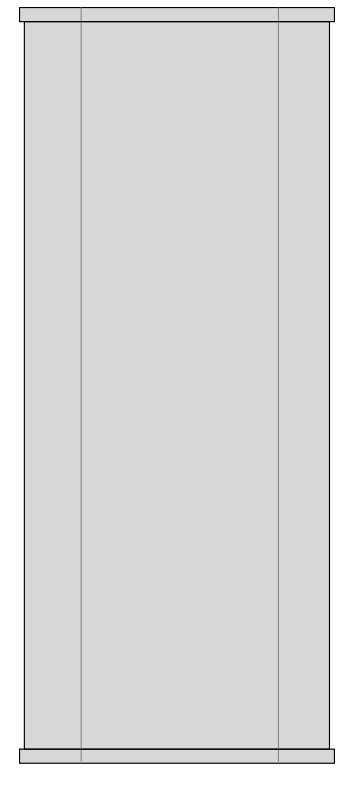
JMA MX08FRO465-20	
DIMENSIONS (HxWxD)	48"x20.0"x8.0"
RF PORTS, CONNECTOR TYPE	8 x 4.3-10 FEMALE
WEIGHT	51.3 lbs
WEIGHT WITH BRACKETS	69.3 lbs



PLAN



SIDE

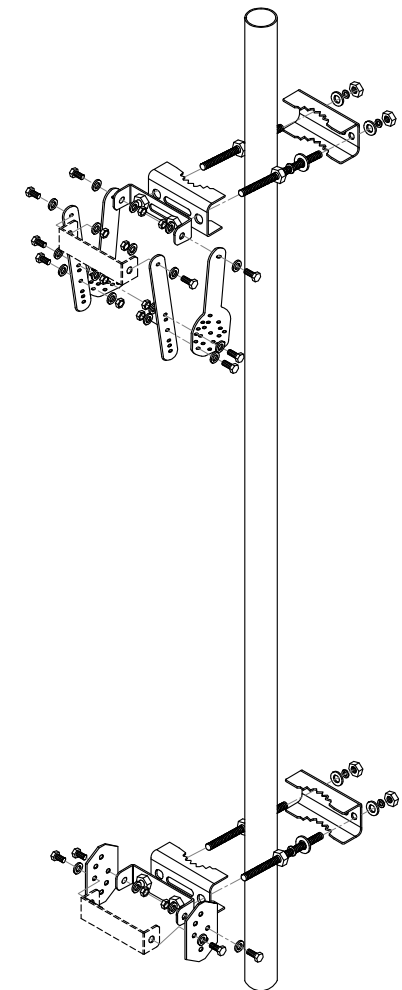


FRONT

JMA ANTENNA MOUNT BRACKET #91900318	
TOTAL WEIGHT (WITH BRACKETS)	18 lbs (8.18 Kg)
POLE DIAMETER RANGE	2.5" TO 4.5"

NOTE:
KIT #91900318: TOP AND BOTTOM BRACKETS
FOR 4-,6-, AND 8-FOOT ANTENNAS

ANTENNA BRACKET NOT PART OF KIT



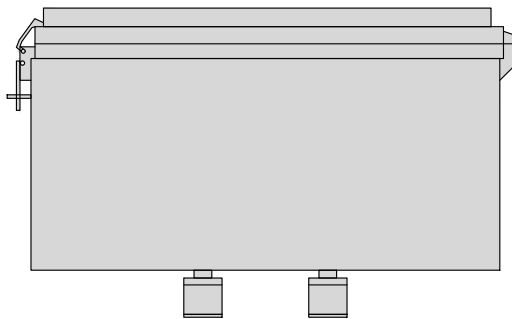
NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

ANTENNA DETAIL

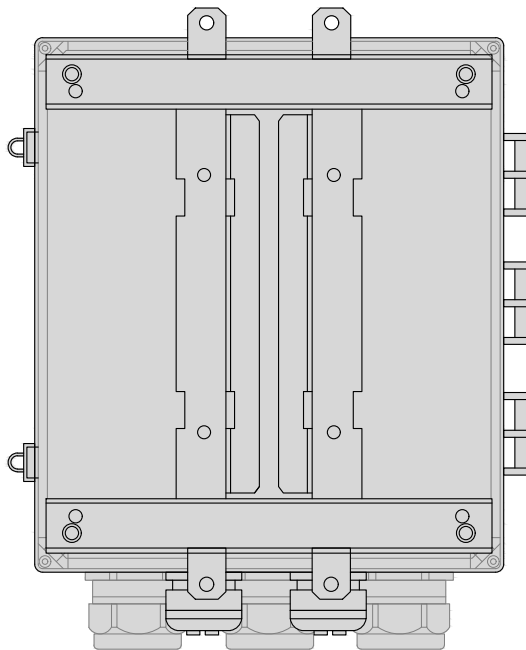
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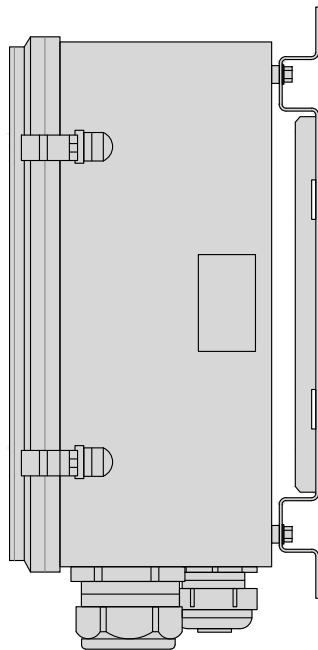
RAYCAP RDIDC-3045-PF-48 SURGE PROTECTION DEVICE (OVP)	
DIMENSIONS (HxWxD)	18.97"x16.21"x9.64"
WEIGHT	21 lbs



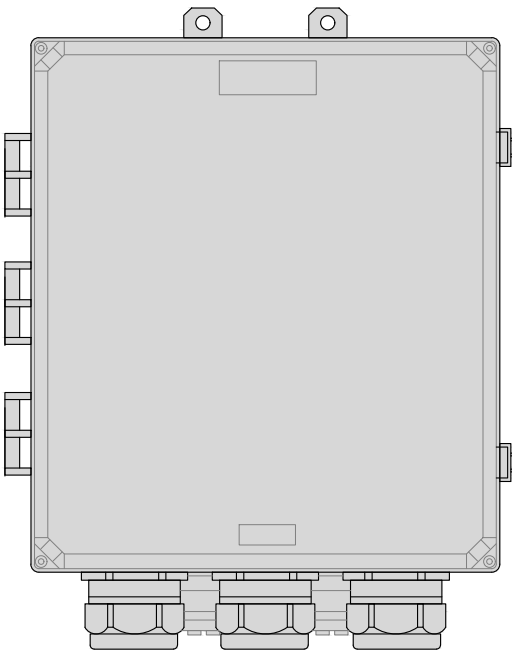
PLAN



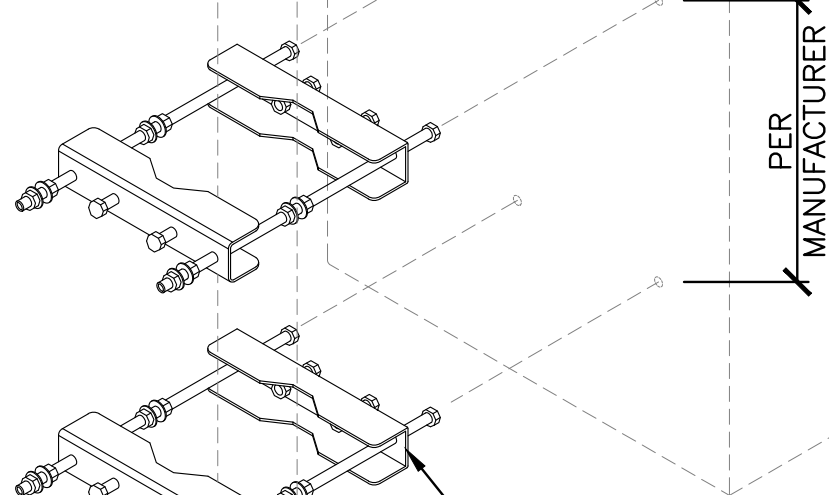
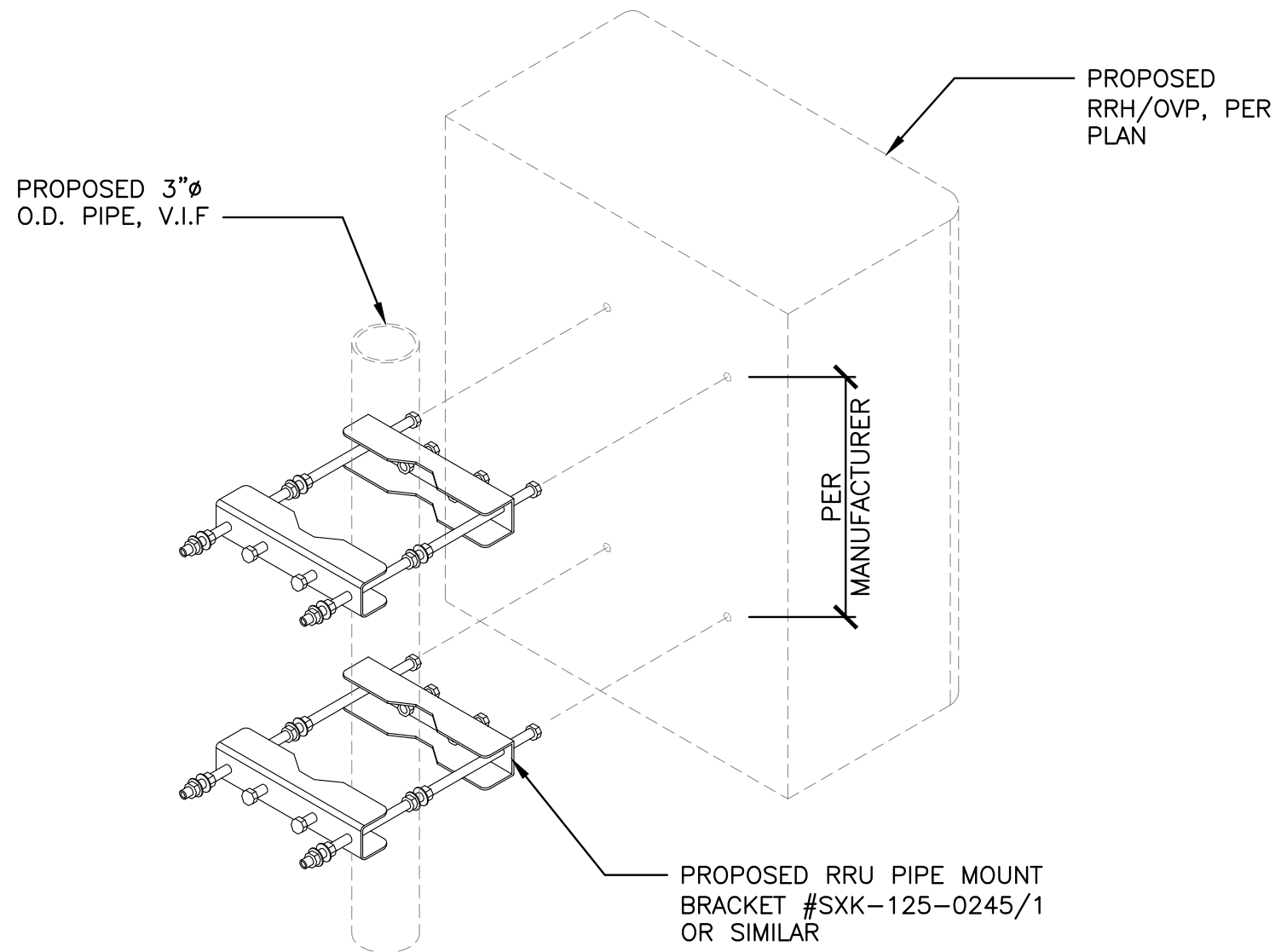
BACK



SIDE



FRONT



PROPOSED RRU PIPE MOUNT
BRACKET #SXX-125-0245/1
OR SIMILAR

RRH/OVP MOUNT DETAIL

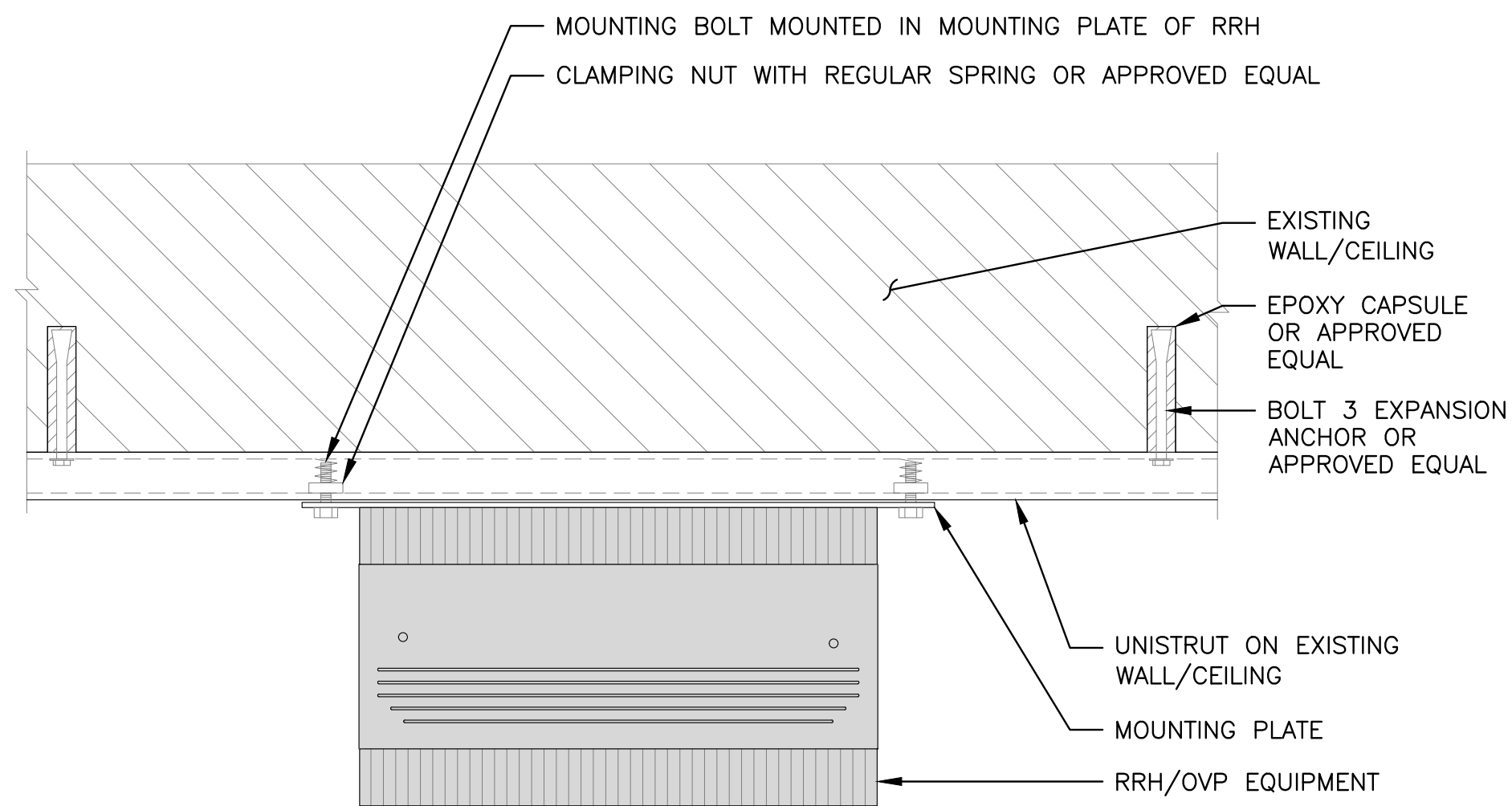
NO SCALE

8

ANTENNA BRACKET DETAIL

NO SCALE

6



NOTE:
OR DISH Wireless L.L.C.
APPROVED EQUIVALENT

RRH/OVP UNISTRUT WALL/CEILING MOUNT DETAIL

NO SCALE

9

SURGE PROTECTION DEVICE DETAIL (OVP)

NO SCALE

7

dish
wireless™

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

QUALTEK
WIRELESS

1200 DEL PASO RD. STE. 150
SACRAMENTO, CA 95843

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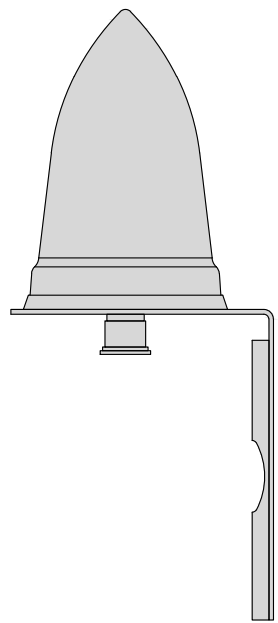
DISH Wireless
PROJECT INFORMATION
SFSF001057B
333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

SHEET TITLE
EQUIPMENT DETAILS

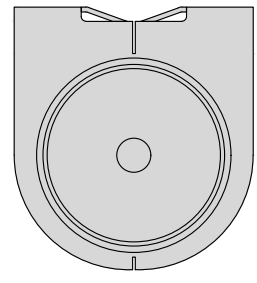
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D-2

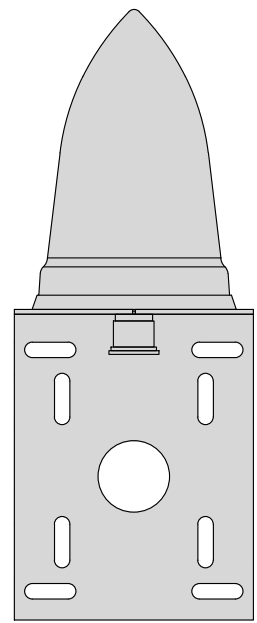
PCTEL GPSGL-TMG-SPI-40NCB	
DIMENSIONS (DIAxH) MM/INCH	81x184mm 3.2"x7.25"
WEIGHT W/ACCESSORIES	075 lbs
CONNECTOR	N-FEMALE
FREQUENCY RANGE	1590 ± 30MHz



BACK



TOP

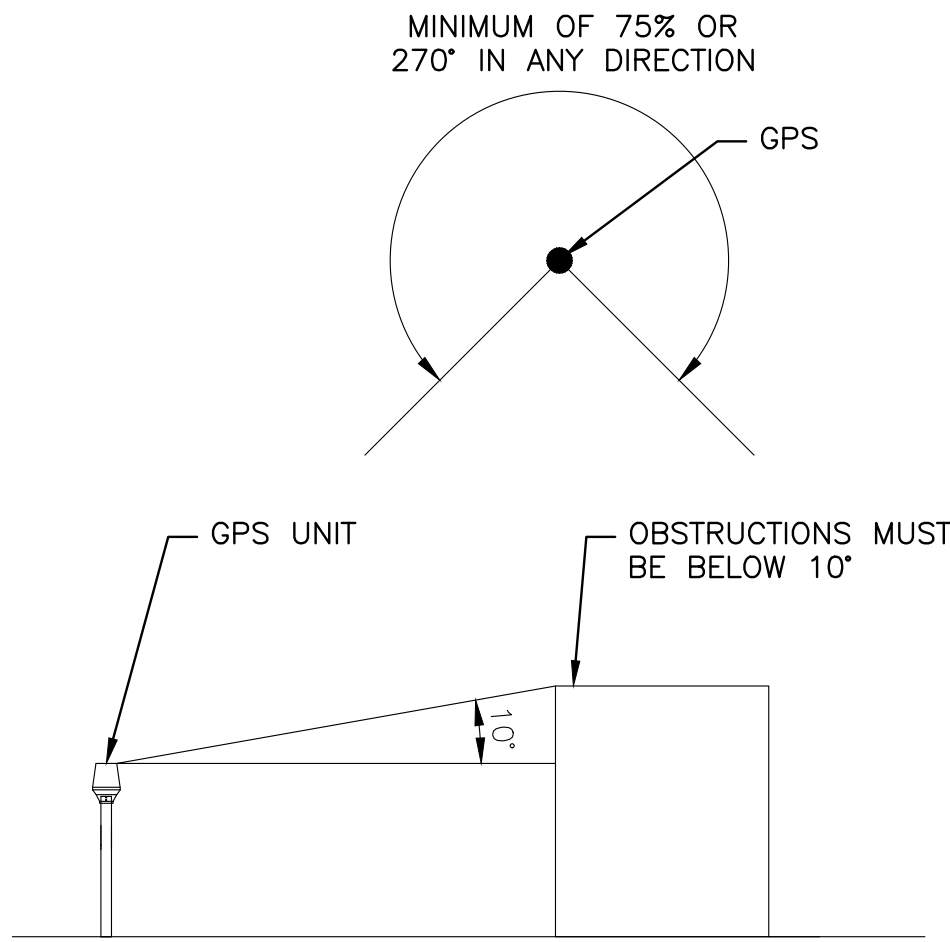


SIDE

GPS DETAIL

NO SCALE

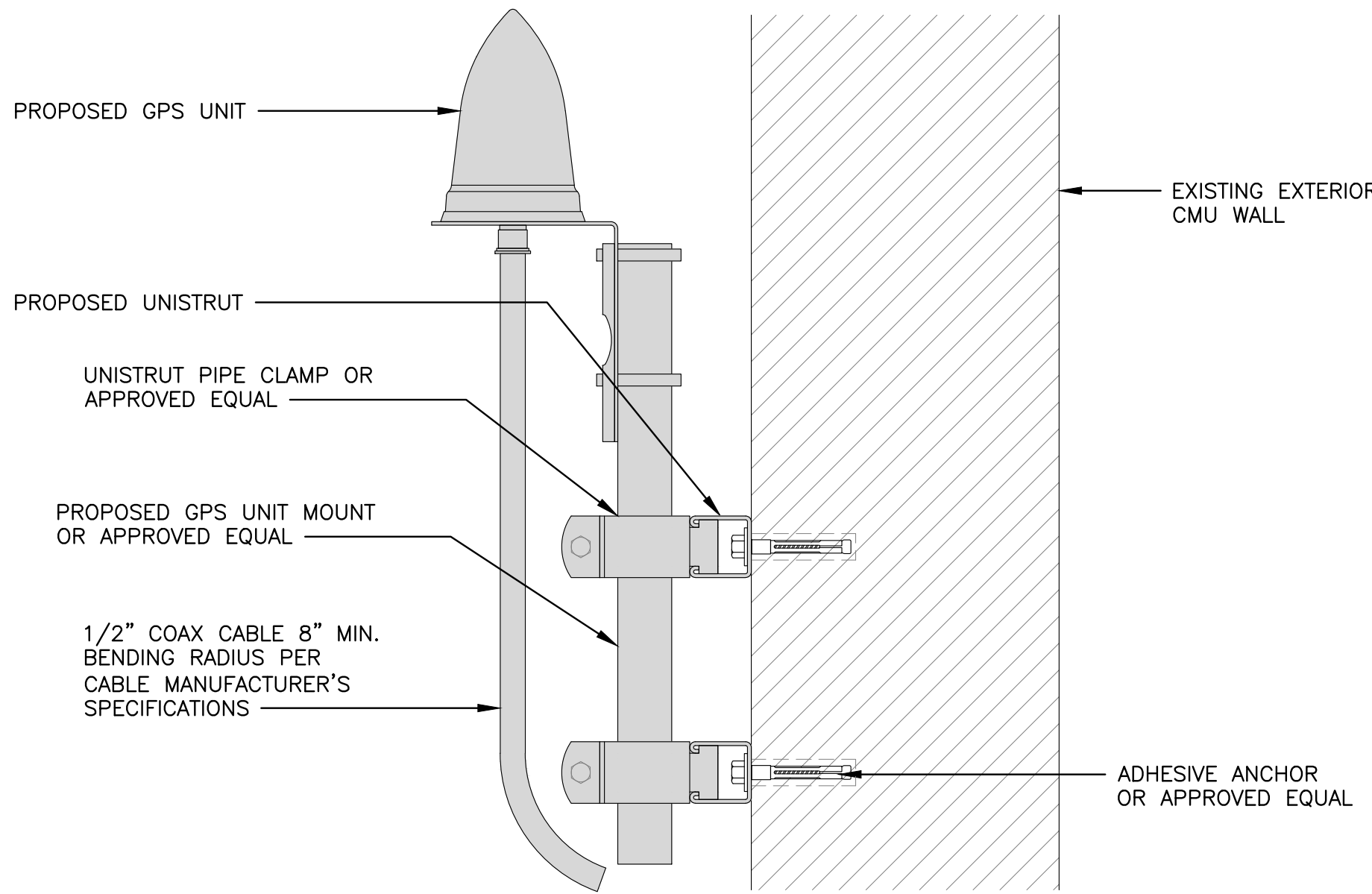
1



GPS MINIMUM SKY VIEW REQUIREMENTS

NO SCALE

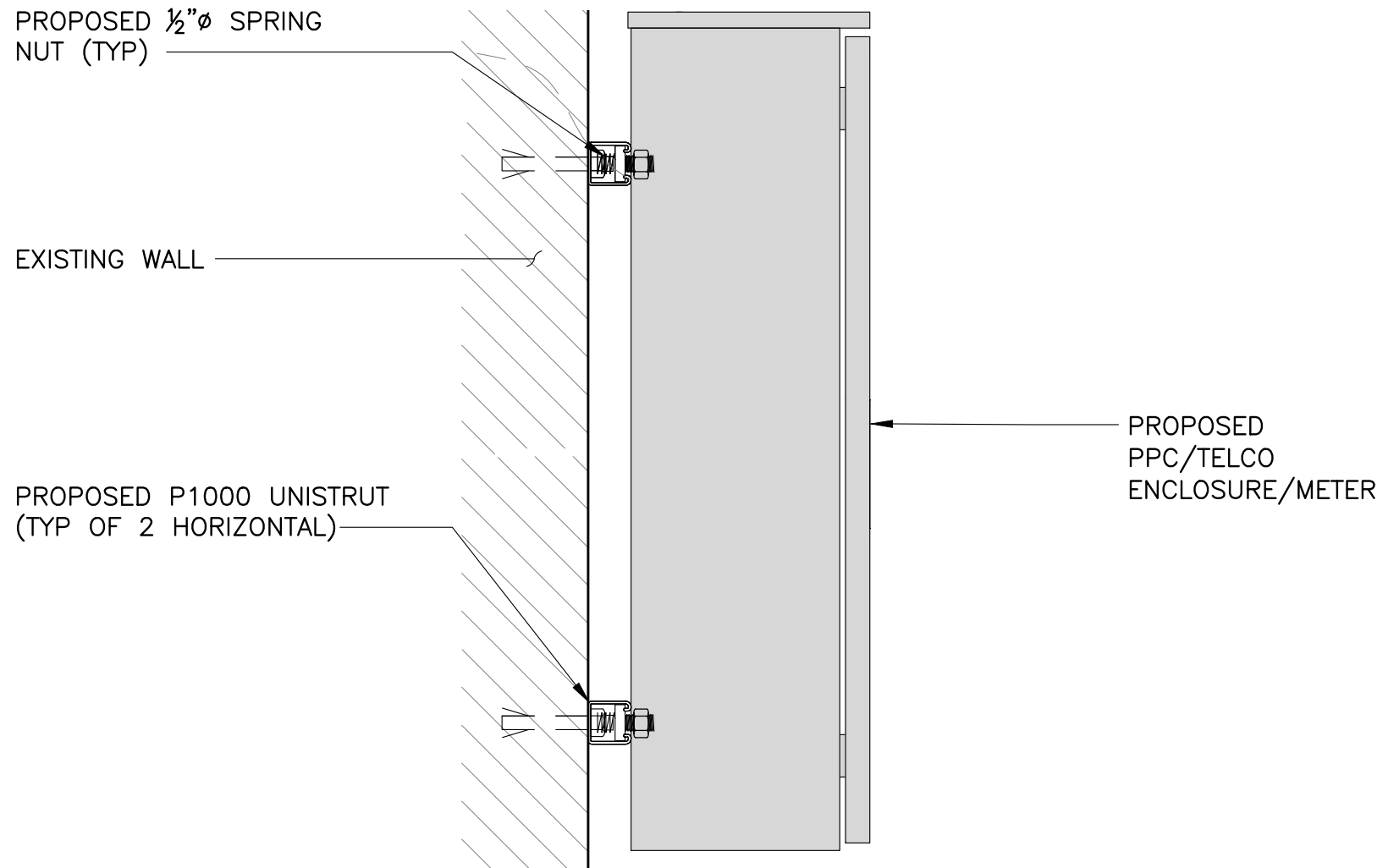
2



TYPICAL GPS UNIT MOUNTING DETAIL

NO SCALE

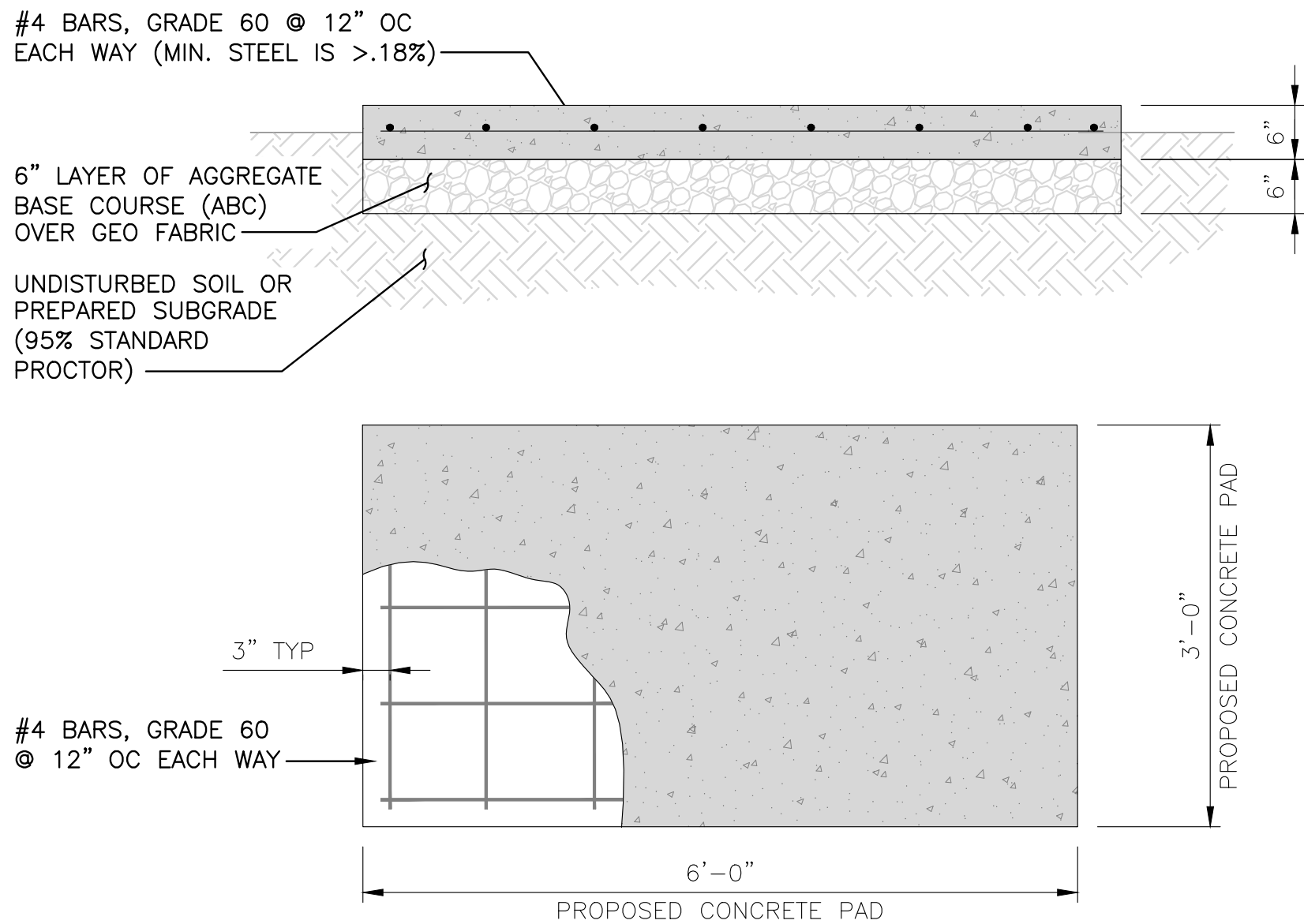
3



TYPICAL EQUIPMENT MOUNTING DETAIL

NO SCALE

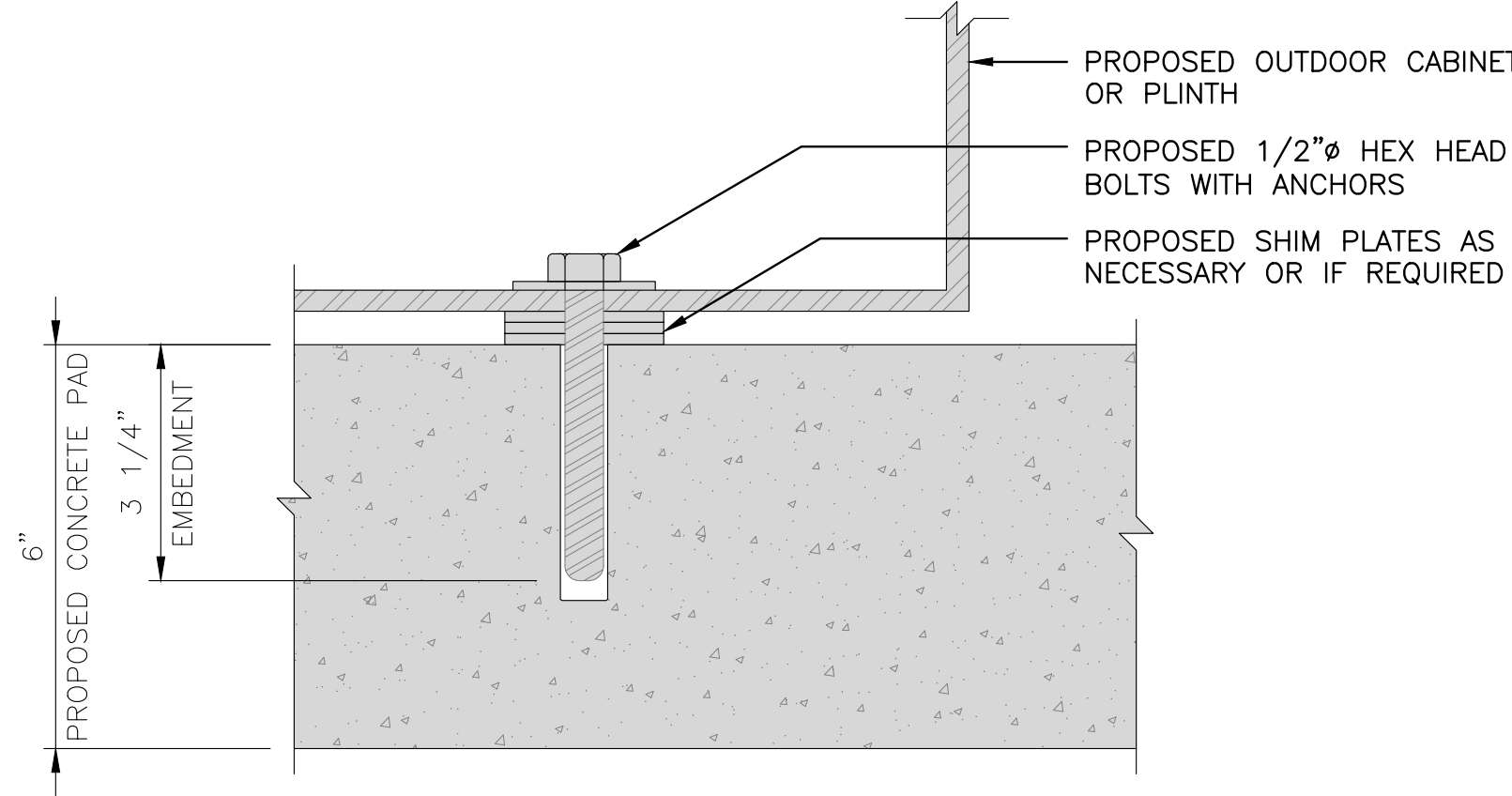
4



TYPICAL CONCRETE PAD DETAIL

NO SCALE

5

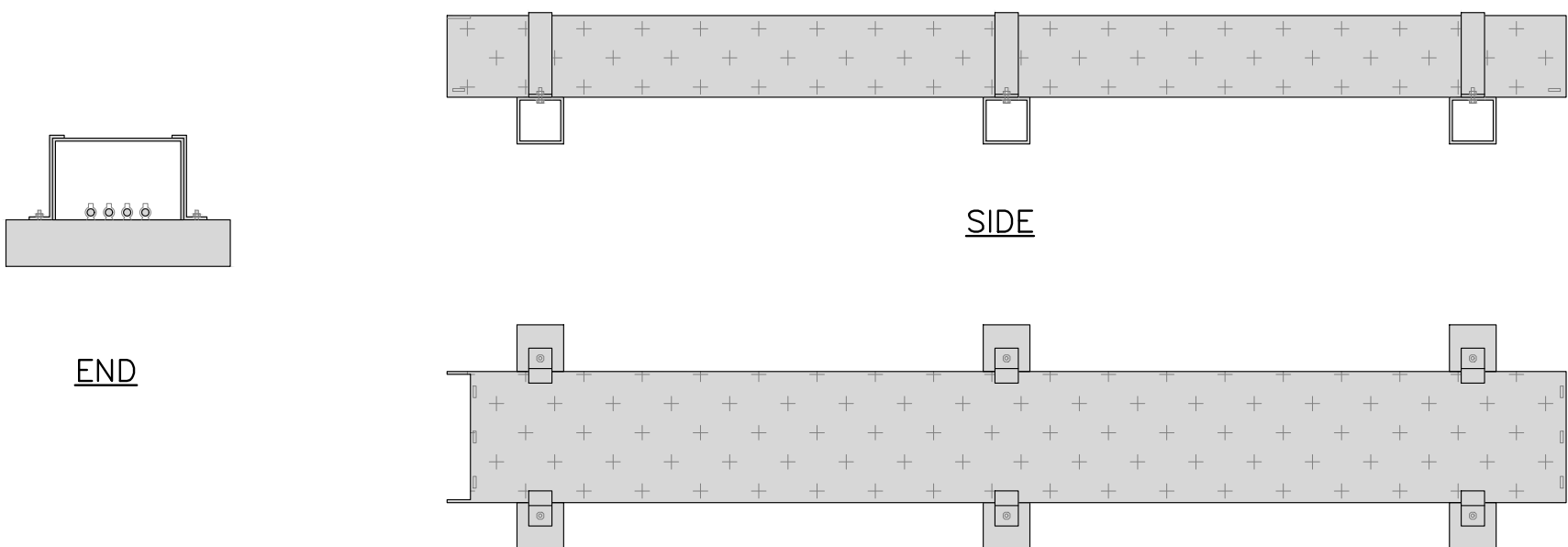


TYPICAL OUTDOOR EQUIPMENT TO
CONCRETE SLAB ANCHORAGE

NO SCALE

6

COMMSCOPE RT-CB4D ROOFTOP COVER KIT		MOUNTING	NON-PENETRATING
DIMENSIONS (HxWxL)	7"x 11.25"x 96"	INCLUDED PRODUCTS:	RTCB4D.01 CHANNEL (1)
WEIGHT/ VOLUME	85.98 LBS		MT-F1598 SLEEPERS (3)
CABLE RUN (QTY)	4		RTCUH HARDWARE
			RTHC.01 HOLD-DOWN CLAMPS (6)



END

SIDE

PLAN

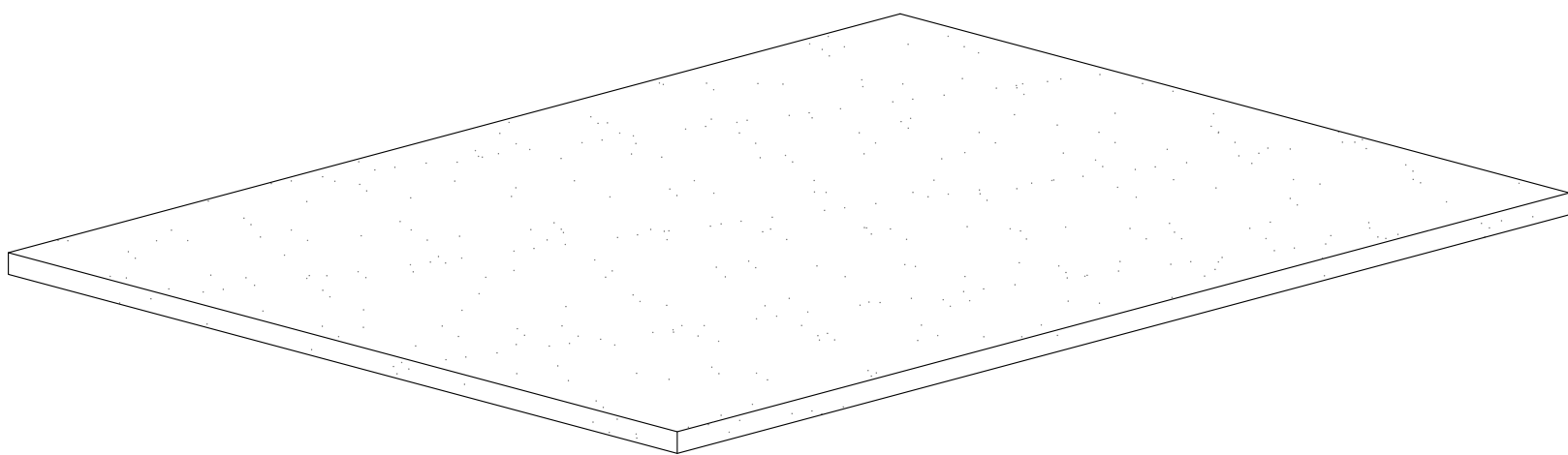
ROOFTOP CABLE TRAY DETAIL

NO SCALE

7

UTILITY RUBBER MAT, BLACK

DIMENSIONS	4'x 3'x 1/2"
WEIGHT/ VOLUME	36.5 LB AVERAGE
MATERIAL	100% RECYCLE RUBBER



UTILITY RUBBER MAT DETAIL

NO SCALE

8

NOT USED

NO SCALE

9

dish
wireless™

5701 SOUTH SANTA FE DRIVE
LITTLETON, CO 80120

QUALTEK
WIRELESS

1200 DEL PASO RD. STE. 150
SACRAMENTO, CA 95843

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SUBMITTALS		
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0	01/18/22	90% CONSTRUCTION DRAWING
1	03/18/22	JX COMMENTS
2	07/01/22	100% CONSTRUCTION DRAWING

A&E PROJECT NUMBER

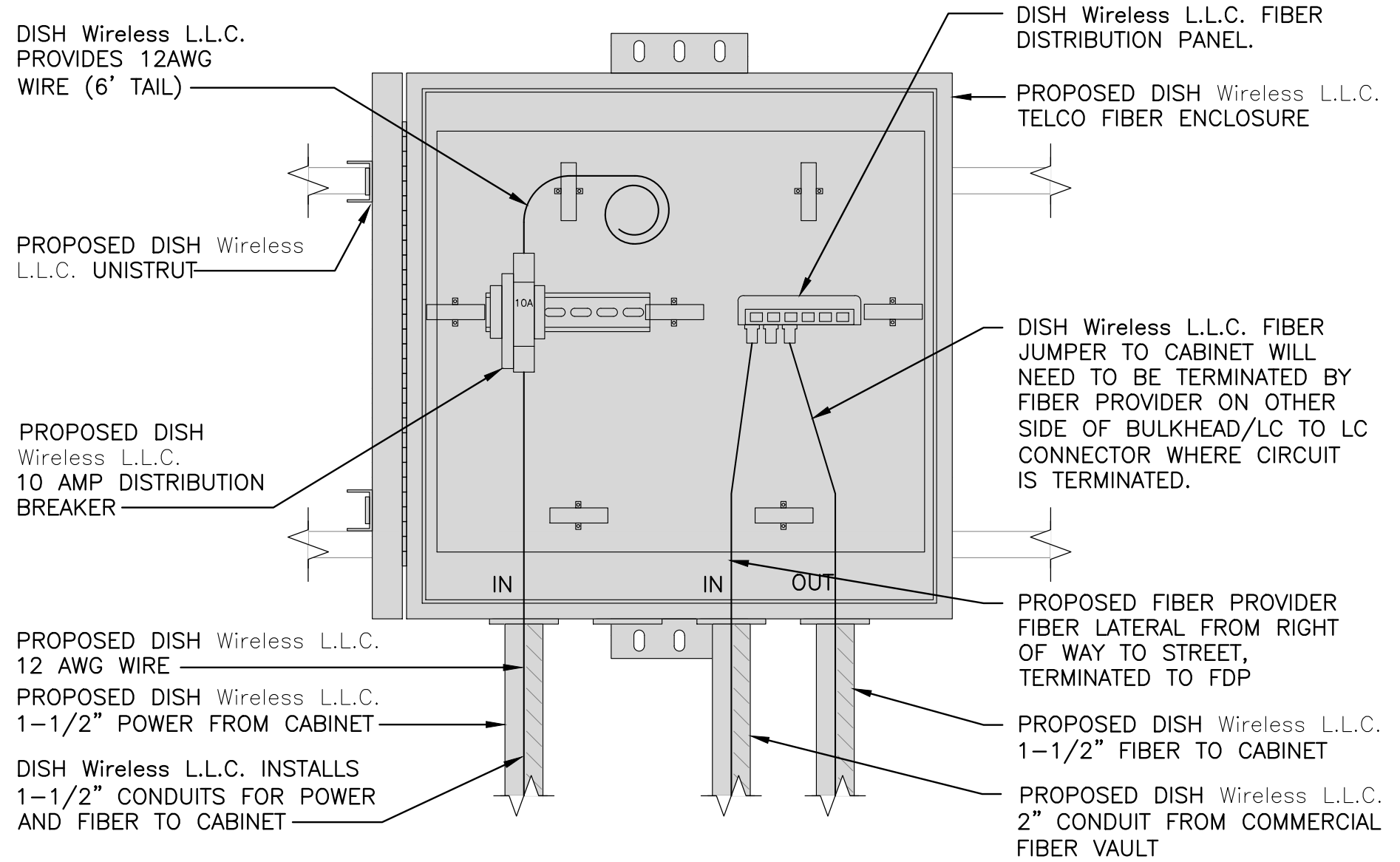
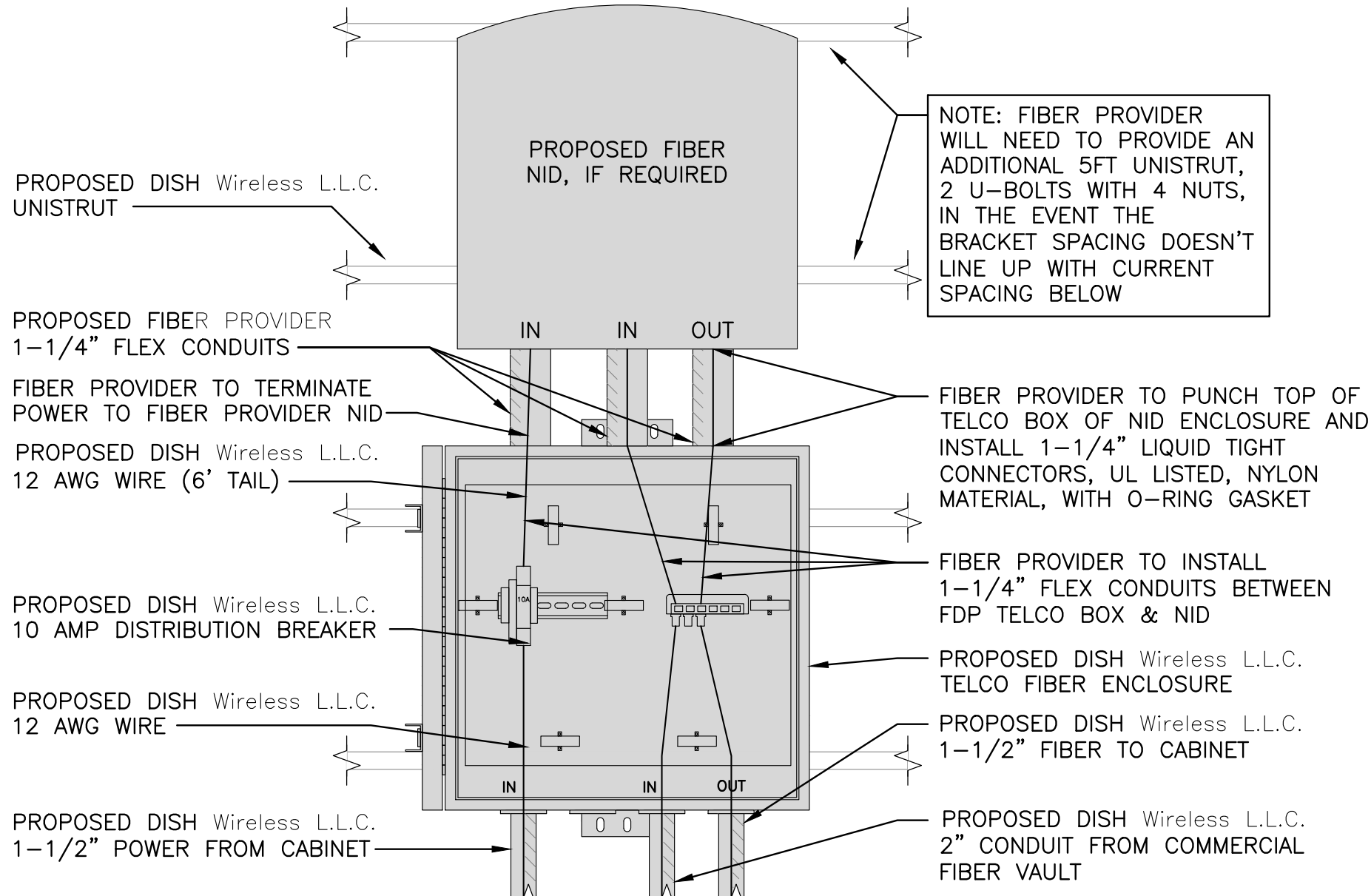
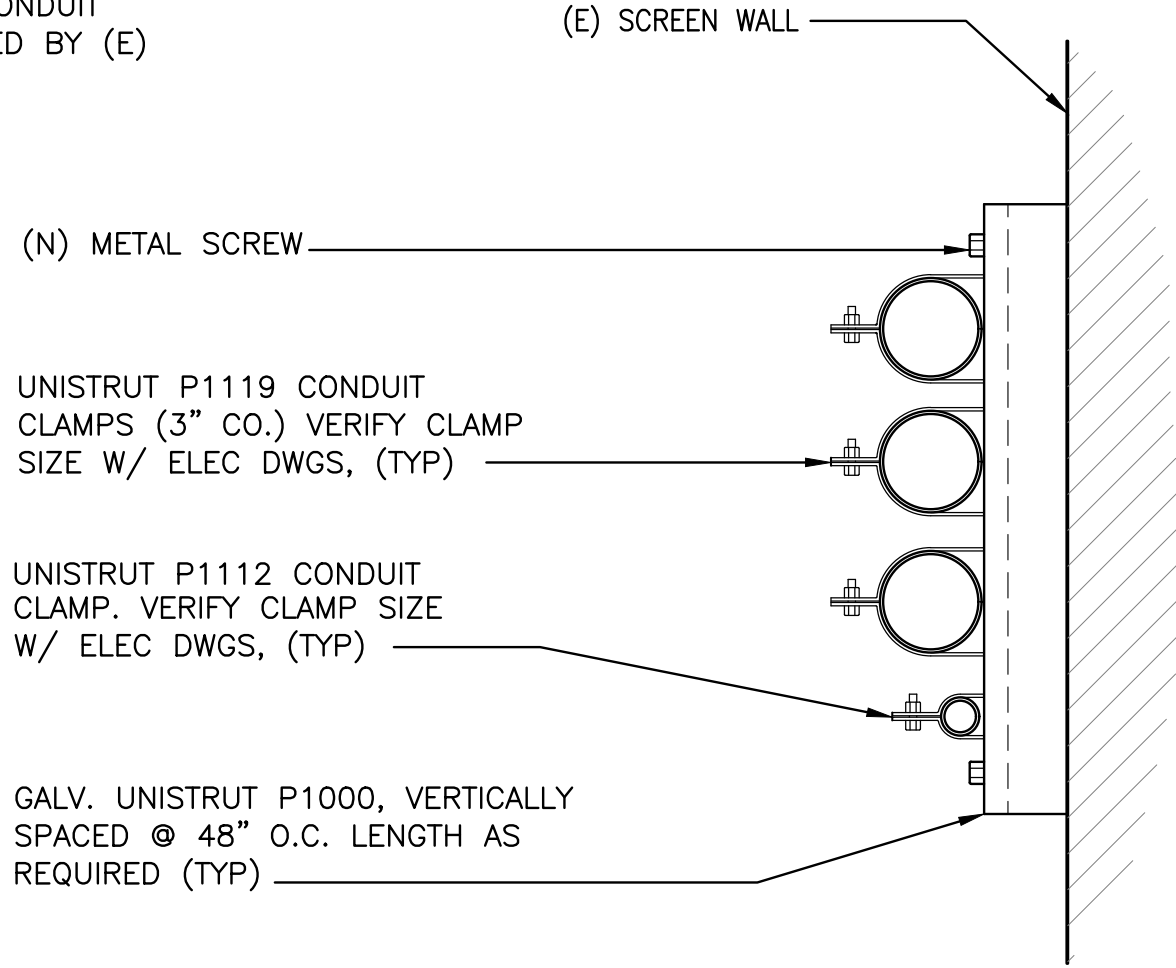
SITE ID_4739

DISH Wireless
PROJECT INFORMATION
SFSF001057B
333 W EL CAMINO REAL
SUNNYVALE, CA 94087
ROOFTOP

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER

D-3

<p>DC POWER WIRING SHALL BE COLOR CODED AT EACH END FOR IDENTIFYING +24V AND -48V CONDUCTORS. RED MARKINGS SHALL IDENTIFY +24V AND BLUE MARKINGS SHALL IDENTIFY -48V.</p>									
<p>DARK TELCO BOX – INTERIOR WIRING LAYOUT</p>			NO SCALE	2	<p>LIT TELCO BOX – INTERIOR WIRING LAYOUT (OPTIONAL)</p>			NO SCALE	3
<p>NOTES:</p> <p>1. ALL OUTDOOR CONDUIT SHALL BE 2"Ø GALVANIZED RIGID, EMT ALLOWABLE FOR INDOOR.</p> <p>2. EXACT LOCATION OF CONDUIT RUN TO BE DETERMINED BY (E) CONDITIONS IN FIELD.</p> 			<p>WALL MOUNTED CONDUIT DETAIL</p>			<p>NOT USED</p>			
<p>ELECTRICAL NOTES</p>			NO SCALE	1	<p>NOT USED</p>			NO SCALE	5
<p>NOT USED</p>			NO SCALE	6	<p>NOT USED</p>			NO SCALE	8
<p>NOT USED</p>			NO SCALE	7	<p>NOT USED</p>			NO SCALE	8



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SHEET TITLE
ELECTRICAL NOTES
AND DETAILS

SHEET NUMBER

E-1

RF JUMPER COLOR CODING

3/4" TAPE WIDTHS WITH 3/4" SPACING

LOW-BAND RRH –
(600MHz N71 BASEBAND) +
(850MHz N26 BAND) +
(700MHz N29 BAND) – OPTIONAL PER MARKET

ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BANDS)

ALPHA RRH			
PORT 1 + SLANT	PORT 2 + SLANT	PORT 3 + SLANT	PORT 4 + SLANT
RED	RED	RED	RED
ORANGE	ORANGE	RED	RED
	WHITE (1) PORT	ORANGE	ORANGE
			WHITE (1) PORT

BETA RRH			
PORT 1 + SLANT	PORT 2 + SLANT	PORT 3 + SLANT	PORT 4 + SLANT
BLUE	BLUE	BLUE	BLUE
ORANGE	ORANGE	BLUE	BLUE
	WHITE (1) PORT	ORANGE	ORANGE
			WHITE (1) PORT

GAMMA RRH			
PORT 1 + SLANT	PORT 2 + SLANT	PORT 3 + SLANT	PORT 4 + SLANT
GREEN	GREEN	GREEN	GREEN
ORANGE	ORANGE	GREEN	GREEN
	WHITE (1) PORT	ORANGE	ORANGE
			WHITE (1) PORT

MID-BAND RRH –
(AWS BANDS N66+N70)

ADD FREQUENCY COLOR TO SECTOR BAND
(CBRS WILL USE YELLOW BANDS)

RED	RED	RED	RED
PURPLE	PURPLE	RED	RED
	WHITE (1) PORT	PURPLE	PURPLE
			WHITE (1) PORT

BLUE	BLUE	BLUE	BLUE
PURPLE	PURPLE	BLUE	BLUE
	WHITE (1) PORT	PURPLE	PURPLE
			WHITE (1) PORT

GREEN	GREEN	GREEN	GREEN
PURPLE	PURPLE	GREEN	GREEN
	WHITE (1) PORT	PURPLE	PURPLE
			WHITE (1) PORT

HYBRID/DISCREET CABLES

INCLUDE SECTOR BANDS BEING SUPPORTED AM
LONG WITH FREQUENCY BANDS

EXAMPLE 1 – HYBRID, OR DISCREET, SUPPORTS
ALL SECTORS, BOTH LOW-BANDS AND MID-BANDS

EXAMPLE 2 – HYBRID, OR DISCREET, SUPPORTS
CBRS ONLY, ALL SECTORS

EXAMPLE 3 – MAIN COAX WITH GROUND MOUNTED
RRUs

EXAMPLE 1

RED
BLUE
GREEN
ORANGE
PURPLE

EXAMPLE 2
(3RD TECH ADDED)

RED
BLUE
GREEN

EXAMPLE 3
COAX #1
(ALPHA)

RED

CANISTER
COAX #2
(ALPHA)

RED
RED

FIBER JUMPERS TO RRHs

LOW-BAND RRH FIBER CABLES HAVE SECTOR
STRIPE ONLY

LOW BAND RRH
RED
ORANGE

MID BAND RRH
RED
PURPLE

LOW BAND RRH
BLUE
ORANGE

MID BAND RRH
BLUE
PURPLE

LOW BAND RRH
GREEN
ORANGE

LOW BAND RRH
GREEN
PURPLE

POWER CABLES TO RRHs

LOW-BAND RRH POWER CABLES HAVE SECTOR
STRIPE ONLY

LOW BAND RRH
RED
ORANGE

MID BAND RRH
RED
PURPLE

LOW BAND RRH
BLUE
ORANGE

MID BAND RRH
BLUE
PURPLE

LOW BAND RRH
GREEN
ORANGE

LOW BAND RRH
GREEN
PURPLE

RET MOTORS AT ANTENNAS

RET CONTROL IS HANDLED BY THE MID-BAND RRU
WHEN ONE SET OF RET PORTS EXIST ON ANTENNA

SEPARATE RET CABLES ARE USED WHEN ANTENNA
PORTS PROVIDE INPUTS FOR BOTH LOW AND MID
BANDS

ANTENNA 1 MID BAND/ "IN"
RED
PURPLE

ANTENNA 1 LOW BAND/ "IN"
RED
ORANGE

ANTENNA 1 MID BAND/ "IN"
BLUE
PURPLE

ANTENNA 1 LOW BAND/ "IN"
BLUE
ORANGE

ANTENNA 1 MID BAND/ "IN"
GREEN
PURPLE

ANTENNA 1 LOW BAND/ "IN"
GREEN
ORANGE

MICROWAVE RADIO LINKS

LINKS WILL HAVE A 1.5–2 INCH WHITE WRAP WITH
THE AZIMUTH COLOR OVERLAPPING IN THE MIDDLE.
ADD ADDITIONAL SECTOR COLOR BANDS FOR EACH
ADDITIONAL MW RADIO.

MICROWAVE CABINETS WILL REQUIRE P-TOUCH
LABELS INSIDE THE CABINET TO IDENTIFY THE
LOCAL AND REMOTE SITE ID'S.

FORWARD AZIMUTH OF 0–120 DEGREES	
PRIMARY	SECONDARY
WHITE	WHITE
RED	RED
WHITE	WHITE
	RED
	WHITE

FORWARD AZIMUTH OF 120–240 DEGREES	
PRIMARY	SECONDARY
WHITE	WHITE
BLUE	BLUE
WHITE	WHITE
	BLUE
	WHITE

FORWARD AZIMUTH OF 240–359 DEGREES	
PRIMARY	SECONDARY
WHITE	WHITE
GREEN	GREEN
WHITE	WHITE
	GREEN
	WHITE

LOW BANDS (N71–N28)
OPTIONAL – (N29)

ORANGE

AWS
(N65+N70+H–BLOCK)

PURPLE

CBRS TECH
(3 GHz)

YELLOW

NEGATIVE SLANT PORT
ON ANTRRH

WHITE

ALPHA SECTOR

RED

BETA SECTOR

BLUE

GAMMA SECTOR

GREEN

COLOR IDENTIFIER

NO SCALE

2

NOT USED

NO SCALE

3

RF CABLE COLOR CODES

NO SCALE

1

NOT USED

NO SCALE

4

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