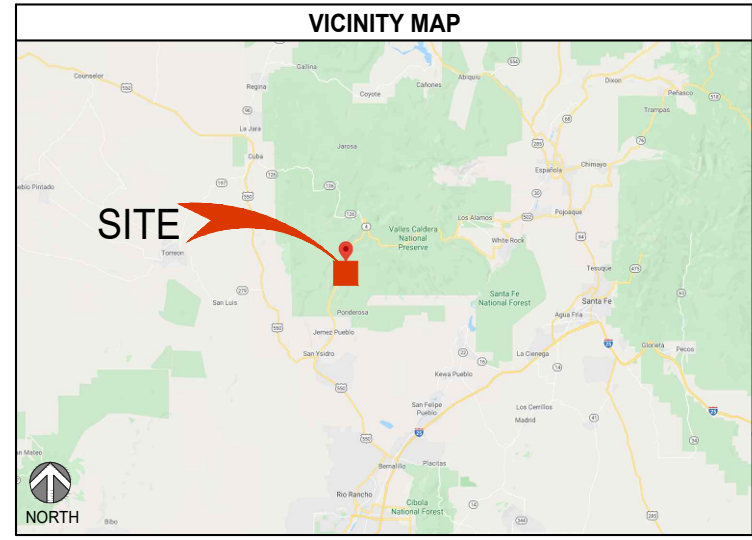
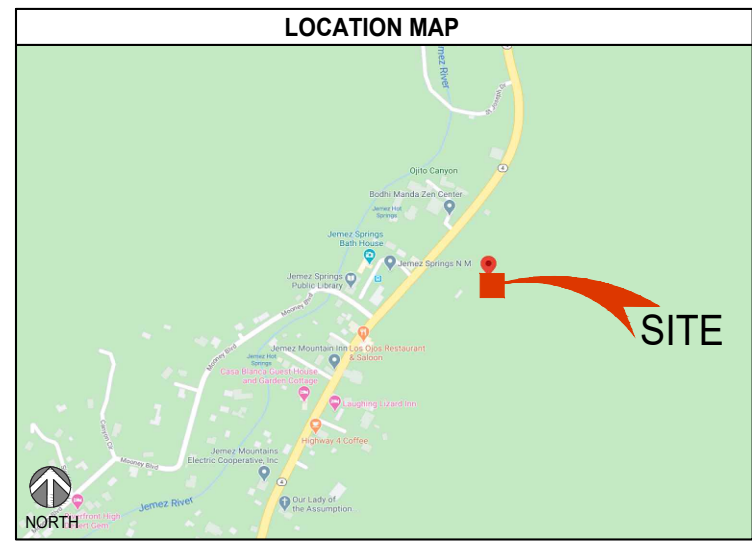


PROJECT: **FIRSTNET**  
 SITE NUMBER: **NML02659A**  
 FA #: **15061987**  
 PACE #: **MRANM032166**  
 SITE NAME: **JEMEZ SPRINGS**  
 ADDRESS: **17816 HIGHWAY 4**  
**JEMEZ SPRINGS, NM 87025**



REVISIONS			
REV	DATE	DESCRIPTION	INITIALS
E	08/04/20	90% CD FOR REVIEW	YH
F	08/26/20	90% CD FOR REVIEW	YH
G	09/02/20	90% CD FOR REVIEW	YH
H	09/24/21	90% CD FOR REVIEW	YH
I	10/04/21	90% CD FOR REVIEW	YH

PROJECT INFORMATION	
SITE NAME:	JEMEZ SPRINGS
SITE NUMBER:	NML02659A
SITE ADDRESS:	17816 HIGHWAY 4 JEMEZ SPRINGS, NM 87025
JURISDICTION:	JEMEZ SPRINGS
COUNTY:	SANDOVAL
TOWER OWNER:	COMMNET
LATITUDE:	35.771535
LONGITUDE:	-106.688797
CONSTRUCTION TYPE:	V-N
OCCUPANCY:	U
A.P.N.:	1-011-105-503-050
PROPOSED USE:	UNMANNED TELECOMMUNICATION FACILITY
PROPERTY OWNER:	MELVIN L. JOHNSON SR 106 KEIRA CT CORRALES, NM 87048 (505) 899-0246
AT&T PROJECT MANAGER:	ANTHONY V. DROSI PROJECT MANAGER-ALTERNATE BUILD MODEL AT&T MOBILITY 7337 TRADE ST., RM 3684 SAN DIEGO, CA 92121-4202 OFFICE: (858) 886-1255 MOBILE: (858) 337-7968
APPLICANT:	SAC WIRELESS ON BEHALF OF AT&T KRISTINA ROSS (720) 490-2592 MOBILE: (858) 337-7968 kristina.ross@nokia.com



SCOPE OF WORK
AT&T PROPOSES TO:
<ul style="list-style-type: none"> <li>NEW 62'-0" MONOPINE TOWER ON NEW CONCRETE FOOTING</li> <li>INSTALL (2) NEW AT&amp;T PANEL ANTENNAS</li> <li>INSTALL (2) NEW AT&amp;T RADIOS (AHLBA)</li> <li>INSTALL (2) NEW AT&amp;T RADIOS (AHFIB)</li> <li>INSTALL (1) NEW AT&amp;T ANTENNA MOUNTS W/ MOUNTING PIPES</li> <li>INSTALL (1) NEW AT&amp;T ANTENNA COLLAR MOUNT W/ MOUNTING PIPES</li> <li>INSTALL (1) NEW AT&amp;T DC12 SURGE SUPPRESSOR</li> <li>INSTALL (1) NEW AT&amp;T DC9 SURGE SUPPRESSOR</li> <li>INSTALL (1) NEW AT&amp;T FIBER TRUNK 24 PAIR CABLE</li> <li>INSTALL (3) NEW AT&amp;T DC TRUNK CABLES</li> <li>INSTALL (1) NEW AT&amp;T DELTA 2-BAY EQUIPMENT CABINET</li> <li>INSTALL (1) NEW AT&amp;T ICE-BRIDGE</li> <li>INSTALL (1) NEW AT&amp;T CONCRETE EQUIPMENT PAD</li> <li>INSTALL (1) NEW AT&amp;T H-FRAME</li> <li>INSTALL (1) NEW AT&amp;T METER W/ MAIN SERVICE BREAKER</li> <li>INSTALL (1) NEW AT&amp;T ELECTRICAL PANEL</li> <li>INSTALL (1) NEW AT&amp;T FIBER BOX</li> <li>INSTALL (1) NEW AT&amp;T GENERATOR RECEPTACLE</li> <li>INSTALL (1) NEW AT&amp;T OUTDOOR GFCI OUTLET</li> </ul>
COMMNET PROPOSES TO:
<ul style="list-style-type: none"> <li>REMOVE EXISTING COMMNET 62'-0" MONOPOLE TOWER</li> <li>INSTALL (1) PROPOSED COMMNET ICE BRIDGE</li> <li>INSTALL (2) PROPOSED COMMNET ANTENNA MOUNTS W/ MOUNTING PIPES</li> <li>INSTALL (1) PROPOSED COMMNET ANTENNA COLLAR MOUNT</li> <li>RELOCATE (1) EXISTING COMMNET FTTA BOX</li> <li>RELOCATE (4) EXISTING COMMNET RADIOS (R8882)</li> <li>RELOCATE EXISTING COMMNET ANTENNAS ON NEW MONOPOLE TOWER, PER PLAN</li> </ul>

DRAWING INDEX	
SHEET	DESCRIPTION
T-1.0	TITLE SHEET
T-2.0	GENERAL NOTES
T-3.0	AT&T SECTOR COLOR CODE
T-3.1	COMMNET SECTOR COLOR CODE
T-3.2	SURVEY OF EXISTING SITE
A-1.0	OVERALL SITE PLAN
A-1.1	SITE PLAN
A-2.0	AT&T PROPOSED ANTENNA & EQUIPMENT PLANS
A-2.1	COMMNET PROPOSED ANTENNA & EQUIPMENT PLANS
A-3.0	EXISTING & PROPOSED NORTHEAST ELEVATIONS
A-4.0	AT&T EQUIPMENT DETAILS & SPECIFICATIONS
A-4.1	AT&T EQUIPMENT DETAILS & SPECIFICATIONS
A-4.2	AT&T EQUIPMENT DETAILS & SPECIFICATIONS
A-4.3	AT&T EQUIPMENT DETAILS & SPECIFICATIONS
A-4.4	COMMNET EQUIPMENT DETAILS & SPECIFICATIONS
A-4.5	COMMNET EQUIPMENT DETAILS & SPECIFICATIONS
E-1.0	AT&T 1-LINE DIAGRAM & SYMBOLS KEY
G-1.0	AT&T EQUIPMENT & ANTENNA GROUNDING PLANS
G-1.1	COMMNET EQUIPMENT & ANTENNA GROUNDING PLANS
G-2.0	GROUNDING NOTES & DETAILS

**NOT FOR CONSTRUCTION UNLESS APPROVED BY JURISDICTION**

DRIVING DIRECTIONS
DIRECTIONS FROM ALBUQUERQUE INTERNATIONAL SUNPORT:
<ol style="list-style-type: none"> <li>HEAD EAST ON SUNPORT BLVD</li> <li>USE THE MIDDLE LANE TO STAY ON SUNPORT BLVD</li> <li>SLIGHT RIGHT TO STAY ON SUNPORT BLVD</li> <li>KEEP LEFT TO STAY ON SUNPORT BLVD</li> <li>USE THE LEFT LANE TO TURN SLIGHTLY LEFT TO STAY ON SUNPORT BLVD</li> <li>USE THE LEFT LANE TO MERGE ONTO SUNPORT LOOP SE</li> <li>KEEP LEFT TO CONTINUE ON SUNPORT BLVD</li> <li>USE THE RIGHT 2 LANES TO TURN RIGHT TO MERGE ONTO I-25 N TOWARD I-40 N/DOWNTOWN/SANTA FE, MERGE ONTO I-25 N</li> <li>USE THE RIGHT 2 LANES TO TAKE EXIT 242 FOR NM-165 E/PLACITAS TOWARD US-550 W/BERNALILLO, CONTINUE ONTO US-550 N, TURN RIGHT ONTO NM-4 E DESTINATION WILL BE ON THE RIGHT</li> </ol>

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 REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

DO NOT SCALE DRAWINGS
CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

SPECIAL NOTES
<ol style="list-style-type: none"> <li>ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT CARRIER CONSTRUCTION INSTALLATION GUIDE.</li> <li>EXISTING CONDITIONS WILL BE VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED &amp; CONTRACTOR SHALL NOTIFY ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY.</li> <li>CONTRACTOR SHALL VERIFY ALL PLANS &amp; EXISTING DIMENSIONS &amp; CONDITIONS ON THE JOB SITE &amp; SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.</li> <li>THESE DRAWINGS ARE FULL SIZE &amp; SCALEABLE ON 22"x34" SHEET SIZE &amp; ARE NOT REDUCED IN SIZE.</li> <li>STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED. -SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING.</li> </ol>

PROJECT NOTES
FCC: EVERY WIRELESS TELECOMMUNICATIONS FACILITY SHALL MEET THE REGULATIONS OF THE FCC REGARDING PHYSICAL AND ELECTROMAGNETIC INTERFERENCE. THE ONLY SIGNAGE WHICH IS PERMITTED IS THAT WHICH IS REQUIRED BY STATE OR FEDERAL LAW.

CODE COMPLIANCE
<ul style="list-style-type: none"> <li>2015 INTERNATIONAL BUILDING CODE</li> <li>2017 NEW MEXICO ELECTRICAL CODES</li> <li>2015 NEW MEXICO COMMERCIAL BUILDING CODE</li> <li>2009 NEW MEXICO ENERGY CONSERVATION CODE</li> </ul>

PROJECT TEAM	
ARCHITECT:	JOHN M. BANKS ARCHITECT JOHN BANKS 604 FOX GLEN BARRINGTON, IL 60010 CONTACT: JOHN BANKS PHONE: (847) 277-0070 EMAIL: jbanks@westchesterservices.com
PLANNING/ZONING CONSULTANT:	NOKIA KRISTINA ROSS (720) 490-2592 kristina.ross@nokia.com
CONSTRUCTION MANAGER:	NOKIA LARRY HILL PHONE: (505) 604-1906 EMAIL: larry.hill.ext@sacw.com

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN NEW MEXICO CALL NEW MEXICO 811

TOLL FREE: 1-800-321-2537 OR www.nm811.org

NEW MEXICO STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE (DAY OF THE CALL NOT INCLUDED)

Know what's below. Call before you dig.

FIRSTNET JEMEZ SPRINGS NML02659A 17816 HIGHWAY 4 JEMEZ SPRINGS, NM 87025
--

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1.0

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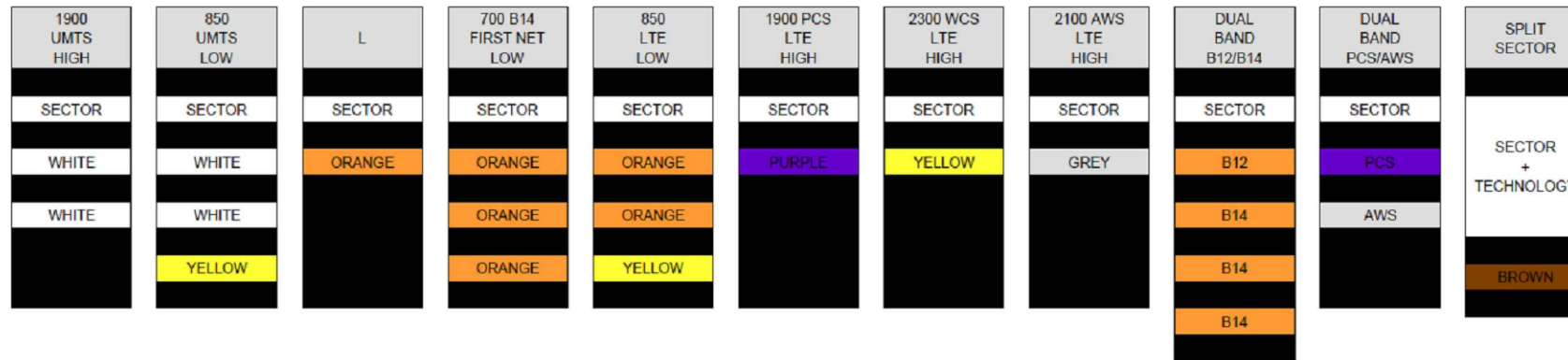


# DSW (DESERT SOUTHWEST)

## SECTOR COLORS



## TECHNOLOGY COLOR CODE



COLOR CODE REPRESENTS ALPHA SECTOR, FIRST MAIN LINE - RED 1, WITH LTE700, WCS, AWS, PCS

1 BROWN STRIPE = SPLIT SECTOR

TECHNOLOGY/JUMPER				QUADPLEXER PORT	TAPE BAND COLOR ON MAINLINE COAX												
1C-LTE 700 TX1/RX1	PORT1	SECTOR			LTE LOW 700 B12	1											
WCS TX1/RX1	PORT2	SECTOR			WCS	4	A	B12	PCS	WCS	AWS	SPLIT					
2C/6C-AWS TX1/RX1	PORT3	SECTOR			AWS	3	A	B12	PCS	WCS	AWS	SPLIT					
2C/5C-PCS TX1/RX1	PORT4	SECTOR			PCS	2											
1C-LTE 700 TX2/RX2	PORT1	SECTOR	SECTOR		LTE LOW 700 B12	1											
WCS TX2/RX2	PORT2	SECTOR	SECTOR		WCS	4	A	A	B12	PCS	WCS	AWS					
2C/6C-AWS TX2/RX2	PORT3	SECTOR	SECTOR		AWS	3	A	A	B12	PCS	WCS	AWS					
2C/5C-PCS TX2/RX2	PORT4	SECTOR	SECTOR		PCS	2											
FIRST NET-LTE 700 TX1/RX1	PORT1	SECTOR	SECTOR	SECTOR		LTE LOW 700 B12	1										
WCS TX3/RX3	PORT2	SECTOR	SECTOR	SECTOR		WCS	4	A	A	A	B14	B14	B14	PCS	WCS	AWS	
2C/6C-AWS TX3/RX3	PORT3	SECTOR	SECTOR	SECTOR		AWS	3	A	A	A	B14	B14	B14	PCS	WCS	AWS	
2C/5C-PCS TX3/RX3	PORT4	SECTOR	SECTOR	SECTOR		PCS	2										
FIRST NET-LTE 700 TX2/RX2	PORT1	SECTOR	SECTOR	SECTOR	SECTOR	LTE LOW 700 B12	1										
WCS TX4/RX4	PORT2	SECTOR	SECTOR	SECTOR	SECTOR	WCS	4	A	A	A	A	B14	B14	B14	PCS	WCS	AWS
2C/6C-AWS TX4/RX4	PORT3	SECTOR	SECTOR	SECTOR	SECTOR	AWS	3	A	A	A	A	B14	B14	B14	PCS	WCS	AWS
2C/5C-PCS TX4/RX4	PORT4	SECTOR	SECTOR	SECTOR	SECTOR	PCS	2										



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I	10/04/21	90% CD FOR REVIEW	YH

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FIRSTNET  
JEMEZ SPRINGS  
NML02659A  
17816 HIGHWAY 4  
JEMEZ SPRINGS, NM 87025

SHEET TITLE  
**SECTOR COLOR CODE**

SHEET NUMBER  
**T-3.0**

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# COMMNET COLOR CODE

Cable Color Code Schedule

Technology	Cable Type	Tape Color	Comments	
LTE	Power Trunk	1 Orange Wrap	Additional Power or Fiber Trunks for LTE, Add 1 Additional Wrap	
LTE	Fiber Trunk	1 Orange Wrap		
GSM/UMTS	Power Trunk	1 Yellow Wrap	Additional Power or Fiber Trunks for GSM/UMTS, Add 1 Additional Wrap	
GSM/UMTS	Fiber Trunk	1 Yellow Wrap		
CDMA/EVDO	Power Trunk	1 Green Wrap	Additional Power or Fiber Trunks for CDMA, Add 1 Additional Wrap	
CDMA/EVDO	Fiber Trunk	1 Green Wrap		
UMTS	Power Trunk	1 Purple Wrap	Additional Power or Fiber Trunks for UMTS, Add 1 Additional Wrap	
UMTS	Fiber Trunk	1 Purple Wrap		
EVDO	Power Trunk	1 White Wrap	Additional Power or Fiber Trunks for DO, Add 1 Additional Wrap	
EVDO	Fiber Trunk	1 White Wrap		
Technology	Cable Type	Tape Color	Comments	
LTE	Power Jumper	1 Orange + Freq+Sector		
LTE	Fiber Jumper	1 Orange + Freq+Sector		
GSM/UMTS	Power Jumper	1 Yellow + Freq+Sector		
GSM/UMTS	Fiber Jumper	1 Yellow + Freq+Sector		
CDMA/EVDO	Power Jumper	1 Green + Freq+Sector		
CDMA/EVDO	Fiber Jumper	1 Green + Freq+Sector		
UMTS	Power Jumper	1 Purple + Freq+Sector		
UMTS	Fiber Jumper	1 Purple + Freq+Sector		
EVDO	Power Jumper	1 White + Freq+Sector		
EVDO	Fiber Jumper	1 White + Freq+Sector		
Frequency	Color	Technology	Cable Type	Tape Color
700	Black/Blank	LTE	RET	1 Orange + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)
850	Grey	GSM/UMTS	RET	1 Yellow + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)
1900	Brown	CDMA/EVDO	RET	1 Green + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)
		UMTS	RET	1 Purple + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)
		EVDO	RET	1 White + Sector (additional sector wrap for each additional RET cable, first wrap starts at the RRU)
Sector	Cable Type	Color		
X	Coax Jumper	Red		
Y	Coax Jumper	White		
Z	Coax Jumper	Blue		

RRU P/N Code (Located on RRU tag)	
129555731012	ZXSDR R8882 S8500(B6B) 850 CDMA&LTE dual mode
129555731009	ZXSDR R8882 S8500 (B6A) 850 standard CDMA only
129555731011	ZXSDR R8882 S1900(B6B) 1900 CDMA&LTE dual mode
129555731010	ZXSDR R8882 S1900 (B5A) 1900 standard CDMA only

129555731037	850 CDMA R8882 New Single Mode
129555731035	1900 CDMA R8882 New Single Mode

129555731023	ZXSDR R8882 S8500(B6B) - 850 GSM/UMTS
129555731024	ZXSDR R8882 S1900(B6B) - 1900 GSM/UMTS

Example: Color Code for LTE for 700 MHz Power or Fiber Trunk - 1 Orange Wrap, 1 Black or Leave Blank (cable color is already black)

Example: Color Code for GSM/UMTS for 850 MHz Power or Fiber Trunk- 1 Yellow Wrap, 1 Grey



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FIRSTNET  
JEMEZ SPRINGS  
NML02659A  
17816 HIGHWAY 4  
JEMEZ SPRINGS, NM 87025

SHEET TITLE  
  
COMMNET  
SECTOR COLOR CODE

SHEET NUMBER  
  
T-3.1

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(IN US FEET)  
1 inch = 50ft  
GRAPHIC SCALE



### LEGEND

- RECOVERED MONUMENT AS SHOWN
- 2C - COORDINATE
  - COMPUTED CORNER
  - UTILITY POLE
  - PARCEL A LEASE AREA
  - PARCEL B & C ACCESS AREA DESCRIPTION
  - OVERHEAD UTILITIES
  - FENCE
  - P.O.C. POINT OF COMMENCEMENT
  - P.O.B. POINT OF BEGINNING
  - P.O.T. POINT OF TERMINATION

### SURVEYOR'S NOTES:

- THIS SURVEY IS A COMPILATION OF INFORMATION PROVIDED OR FOUND IN A PUBLIC RECORD. THERE MAY BE OTHER DOCUMENTS SPECIFYING EASEMENTS, RESTRICTIONS, COVENANTS OR CODES THAT WERE NOT PROVIDED OR ARE NOT KNOWN AT THE TIME OF THE PREPARATION OF THIS EXHIBIT.
- THIS SKETCH IS MEANT TO DEPICT THE PROPERTY DESCRIPTION AND IS FOR INFORMATIONAL PURPOSES ONLY. IT DOES NOT REPRESENT A MONUMENTED LAND SURVEY. THIS DOES NOT CONSTITUTE A TITLE SEARCH BY TOTL SURVEYS, INC. TO DETERMINE OWNERSHIP OR EASEMENTS OF RECORD.

# JEMEZ SPRINGS EXHIBIT A

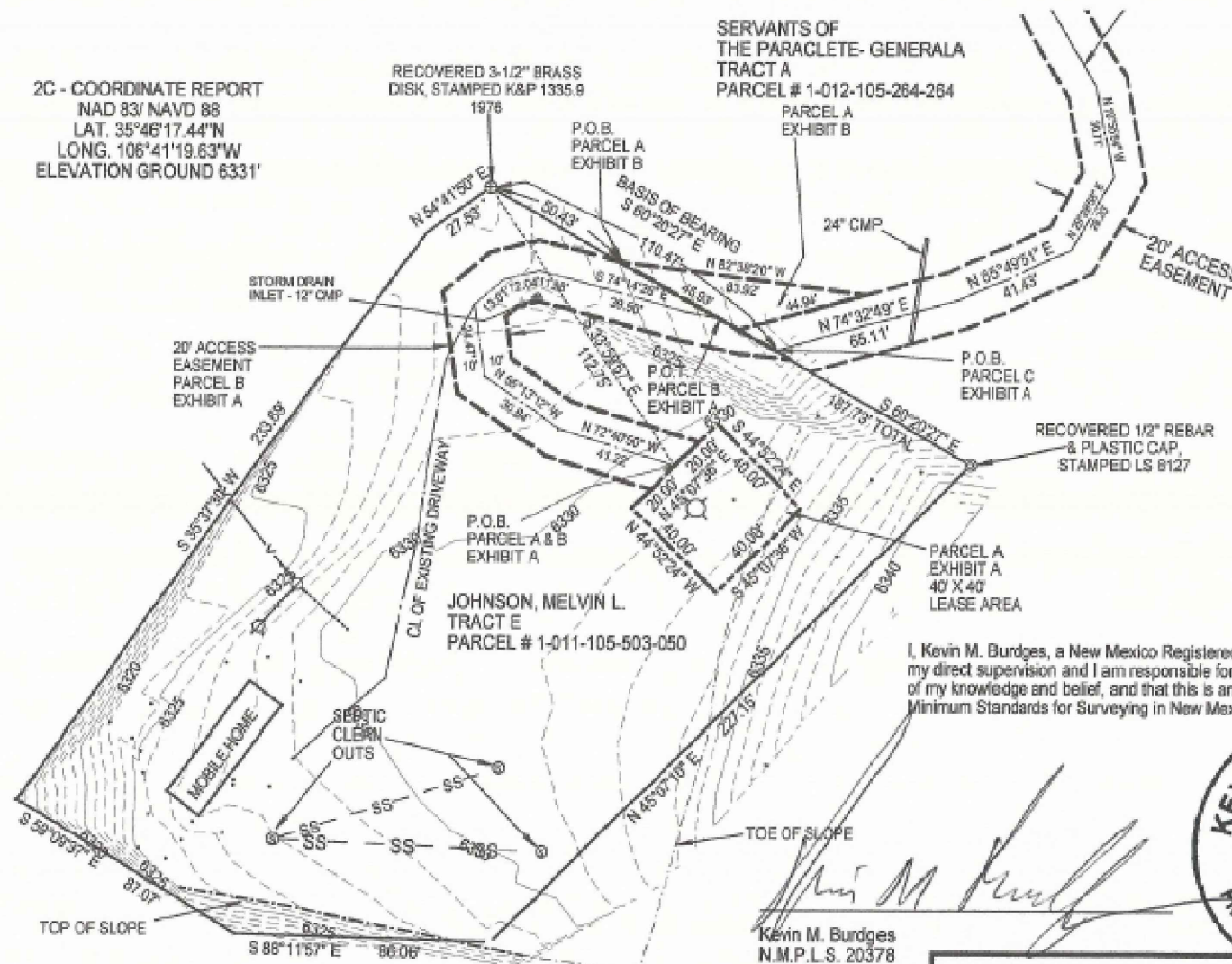
Situated within The Village of Jemez Springs, Canon De San Diego Grant and Projected Section 23, Township 18 North, Range 2 East, N.M.P.M., Sandoval County, New Mexico.

2C - COORDINATE REPORT  
NAD 83/ NAVD 88  
LAT. 35°48'17.44"N  
LONG. 106°41'19.63"W  
ELEVATION GROUND 6331'

SERVANTS OF THE PARACLETE- GENERALA TRACT A  
PARCEL # 1-012-105-264-264

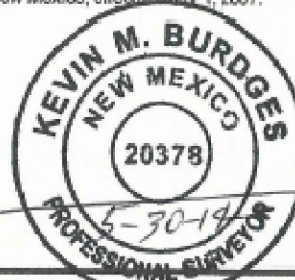
PARENT PROPERTY DESCRIPTION  
QUITCLAIM DEED BOOK VOL. 405, PAGE 17853-17862.

ALL BEARINGS ARE GRID BEARINGS OF THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICA DATUM 1983. THE BASIS OF GRID BEARING IS S 60°20'27" E BETWEEN RECOVERED MONUMENTS, AS SHOWN HEREON AND TIED TO THE NATIONAL CORRS SYSTEM VIA THE OPUS UTILITY AND EXPRESSED IN US SURVEY FEET. RECORD BEARING FOR THIS LINE IS N 60°21'16" E.



DETAIL

Kevin M. Burdges  
N.M.P.L.S. 20378  
For and on behalf of  
TOTL Surveys, Inc.



COMMNET WIRELESS L.L.C.

JEMEZ SPRINGS SITE  
JOHNSON

LOCATION Situated within The Village of Jemez Springs, Canon De San Diego Grant and Projected Section 23, Township 18 North, Range 2 East, N.M.P.M., Sandoval County, New Mexico	TOTL Surveys, Inc. P.O. Box 5146, Santa Fe, NM 87501 Phone 505-825-0800
Revised: 5-30-14 REV 1	Job# 13NM-009JemezSprings3 SA
Drawing#	Date: 1-15-14
Sheet No. 2 OF 3	



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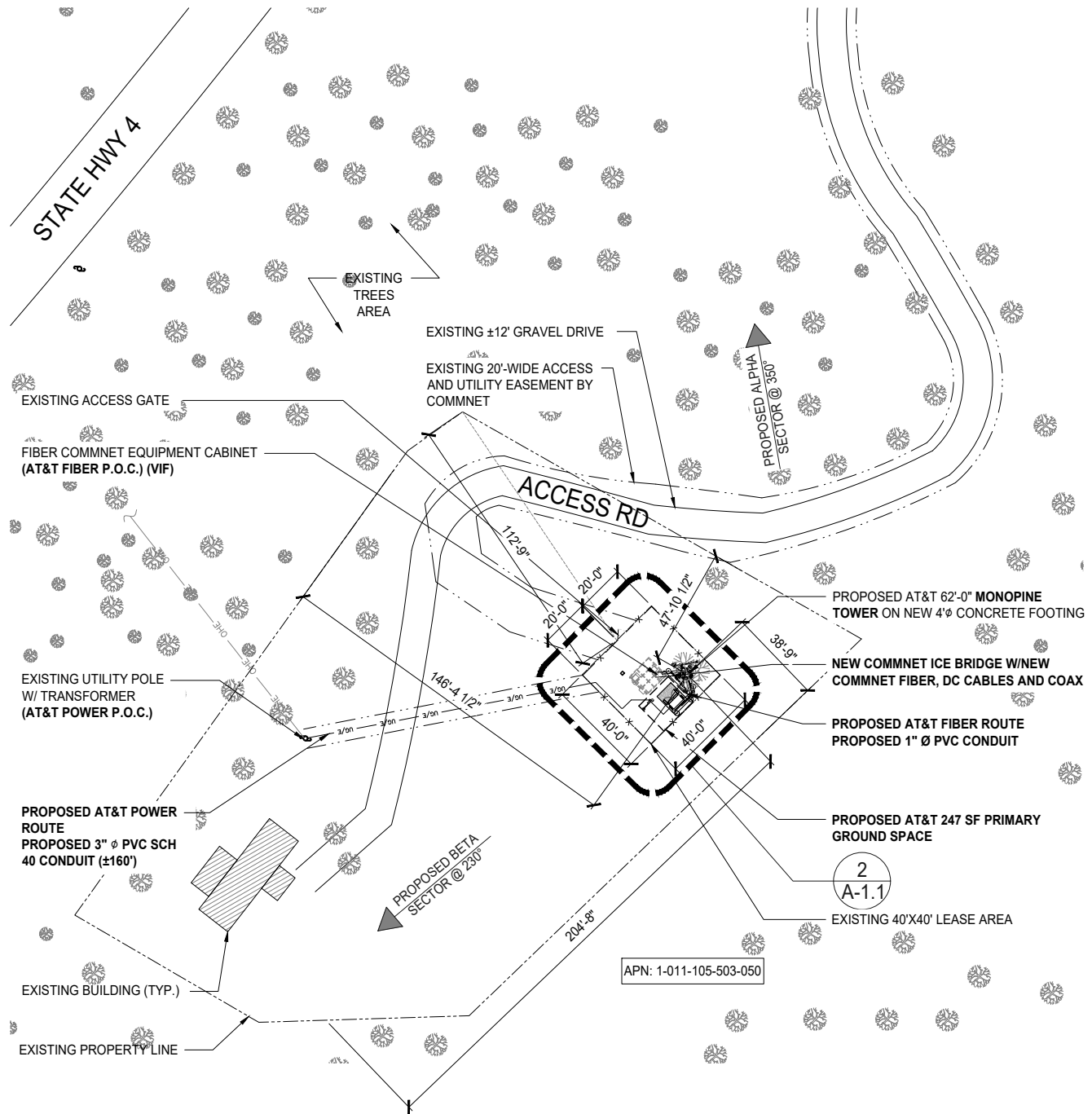
FIRSTNET  
JEMEZ SPRINGS  
NML02659A  
17816 HIGHWAY 4  
JEMEZ SPRINGS, NM 87025

SHEET TITLE  
  
SURVEY OF EXISTING SITE

SHEET NUMBER  
  
T-3.2

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PROPOSED OVERALL SITE PLAN

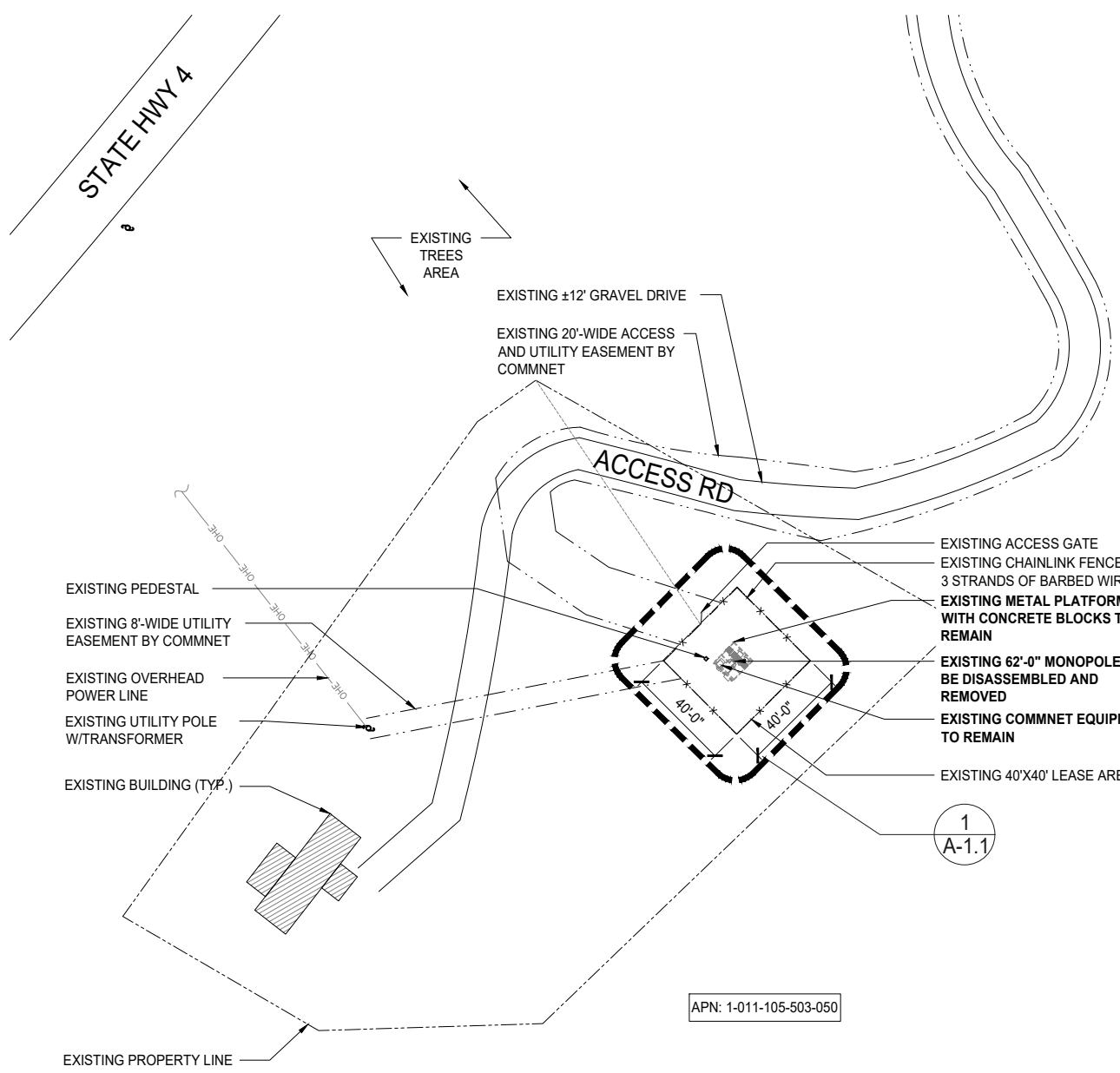
SCALE: 3/32"=1'-0" (22x34)  
(OR) 3/64"=1'-0" (11x17)

2

OVERALL DEMOLITION PLAN

**NOTE:**  
NO LEASE AREA EXPANSIONS REQUIRED AS PART OF PROJECT  
NO TREES ARE WITHIN LEASE AREA

**DISCLAIMER**  
• THIS SITE PLAN WAS GENERATED WITH SURVEY INFORMATION PER ATTACHED



SCALE: 1/32"=1'-0" (22x34)  
(OR) 1/64"=1'-0" (11x17)

1



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FIRSTNET  
JEMEZ SPRINGS  
NML02659A  
17816 HIGHWAY 4  
JEMEZ SPRINGS, NM 87025

SHEET TITLE  
**OVERALL SITE PLAN**

SHEET NUMBER  
**A-1.0**



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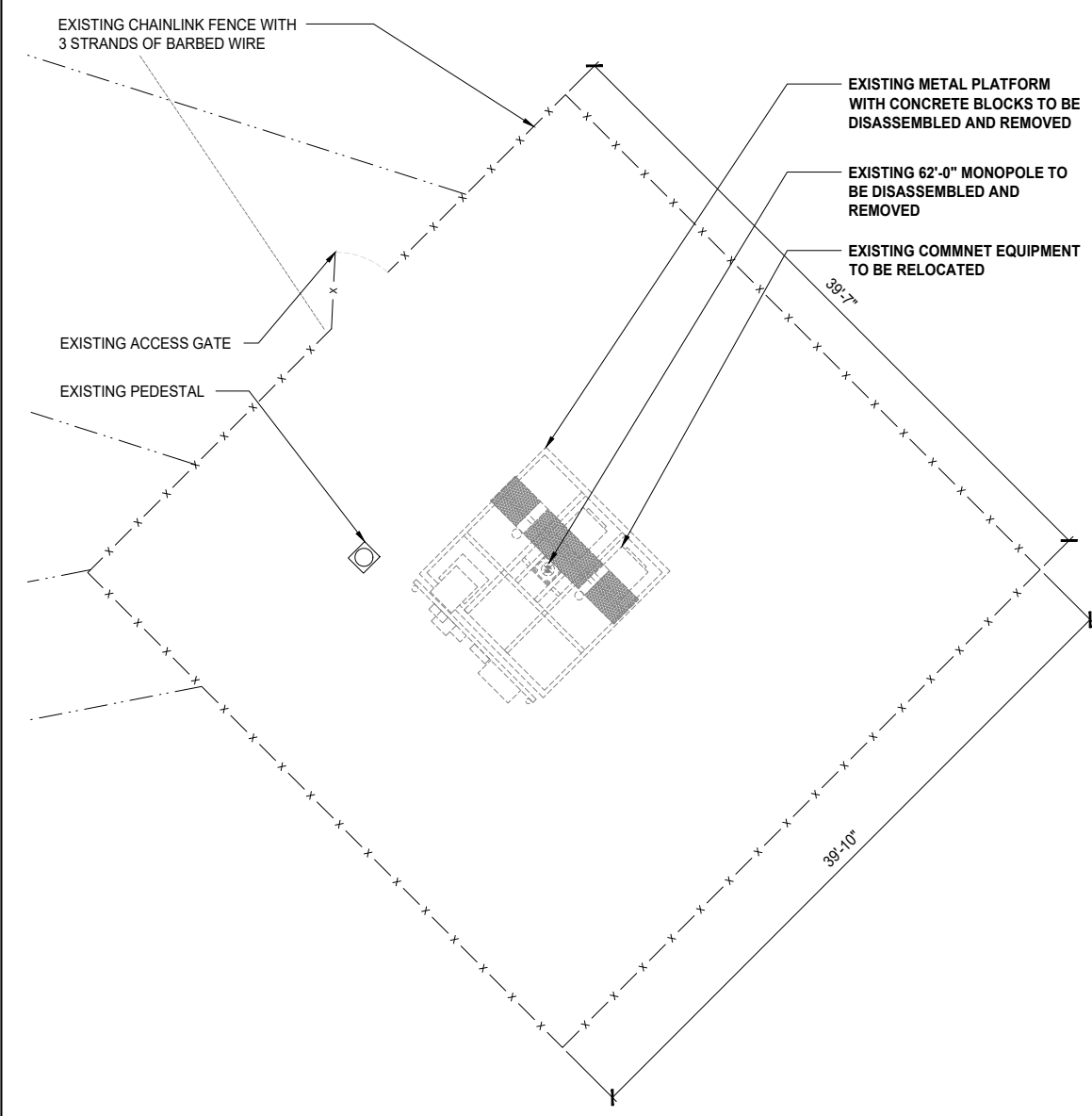
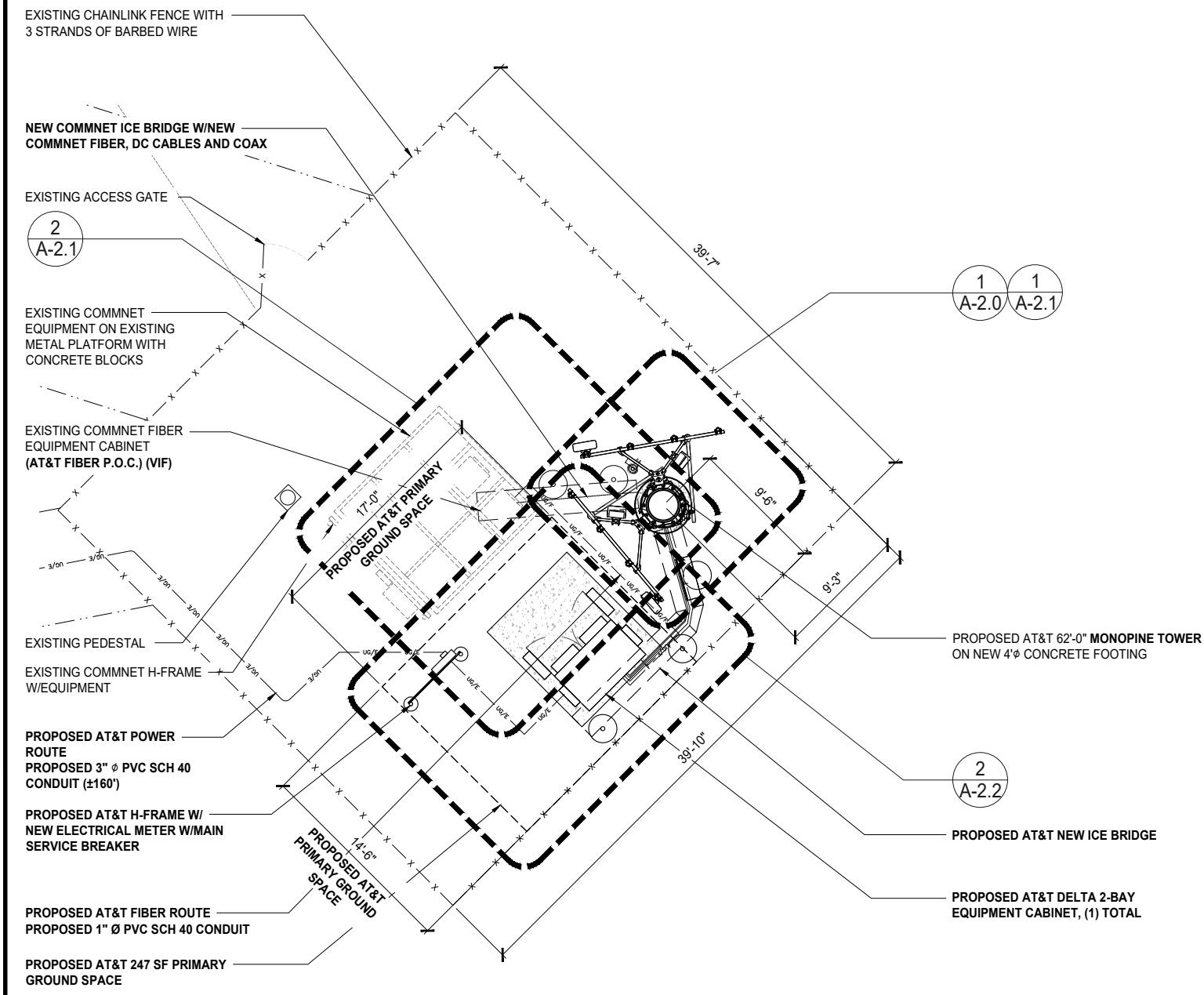
**DISCLAIMER**

- THIS SITE PLAN WAS GENERATED WITHOUT THE BENEFIT OF A CURRENT SURVEY OR ANY SURVEY. LOCATIONS OF PROPERTY LINES AND UTILITIES ARE PRELIMINARY.

• PROPOSED RAD CENTER @ 48'-0"

**DEMOLITION NOTES:**

- REMOVE EXISTING TOWER CONCRETE AND GROUNDING UP TO 3' BELOW GRADE.
- REPLACE EXISTING SOIL TO MATCH EXISTING GRADE.
- EXISTING DEBRIS AND/OR TRASH TO BE CLEARED AND REMOVED FROM SITE.



PROPOSED SITE PLAN

DEMOLITION SITE PLAN

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17)

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
(OR) 3/32"=1'-0" (11x17)



REVISIONS			
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FIRSTNET  
JEMEZ SPRINGS  
NML02659A  
17816 HIGHWAY 4  
JEMEZ SPRINGS, NM 87025

SHEET TITLE  
  
SITE PLAN

SHEET NUMBER  
  
A-1.1

PROPOSED AT&T 62'-0" MONOPINE TOWER  
ON NEW 4'Ø CONCRETE FOUNDATION

PROPOSED AT&T FIBER ROUTE  
PROPOSED 1" Ø PVC SCH 40 CONDUIT

PROPOSED AT&T SURGE  
SUPPRESSOR (DC12-48-60-0-25E-SS),  
(1) TOTAL

2  
A-4.2

PROPOSED AT&T DELTA 2-BAY  
EQUIPMENT CABINET, (1) TOTAL

1  
A-4.0

PROPOSED AT&T (3) 6 AWG DC  
TRUNK CABLES (LENGTH: ±80') AND  
(1) PROPOSED AT&T FIBER TRUNK 24  
PAIR CABLE (LENGTH: ±80') WITH  
PROPOSED 8 AWG JUMPERS  
(LENGTH: ±30')

PROPOSED AT&T 8'-0"X9'-6"  
CONCRETE EQUIPMENT PAD

1  
A-4.2

PROPOSED AT&T NEW H-FRAME

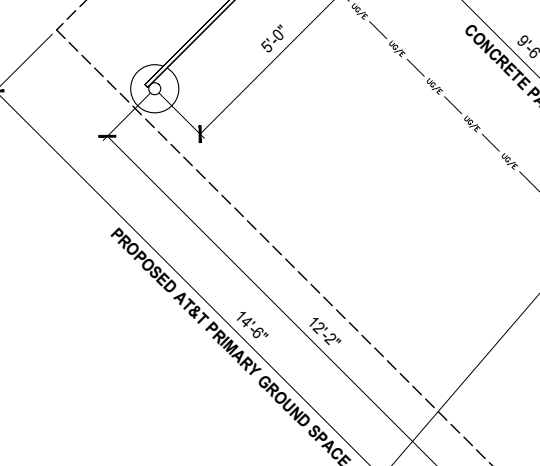
3  
A-4.2

PROPOSED AT&T NEW  
ELECTRICAL METER  
W/MAIN SERVICE  
BREAKER

6  
A-4.2

PROPOSED AT&T POWER  
ROUTE IN 3" Ø PVC SCH  
40 CONDUIT (±160')

6  
A-4.2



PROPOSED AT&T NEW 200A ELECTRICAL  
PANEL CABINET TO BE LOCKABLE AND  
WITH PRE-WIRED GENERATOR  
RECEPTACLE BY MANUFACTURER

PROPOSED AT&T 247 SF PRIMARY  
GROUND SPACE

PROPOSED AT&T  
NEW ICE BRIDGE

4  
A-4.2

PROPOSED AT&T FIBER  
BOX MOUNTED ON NEW  
ICE BRIDGE POST



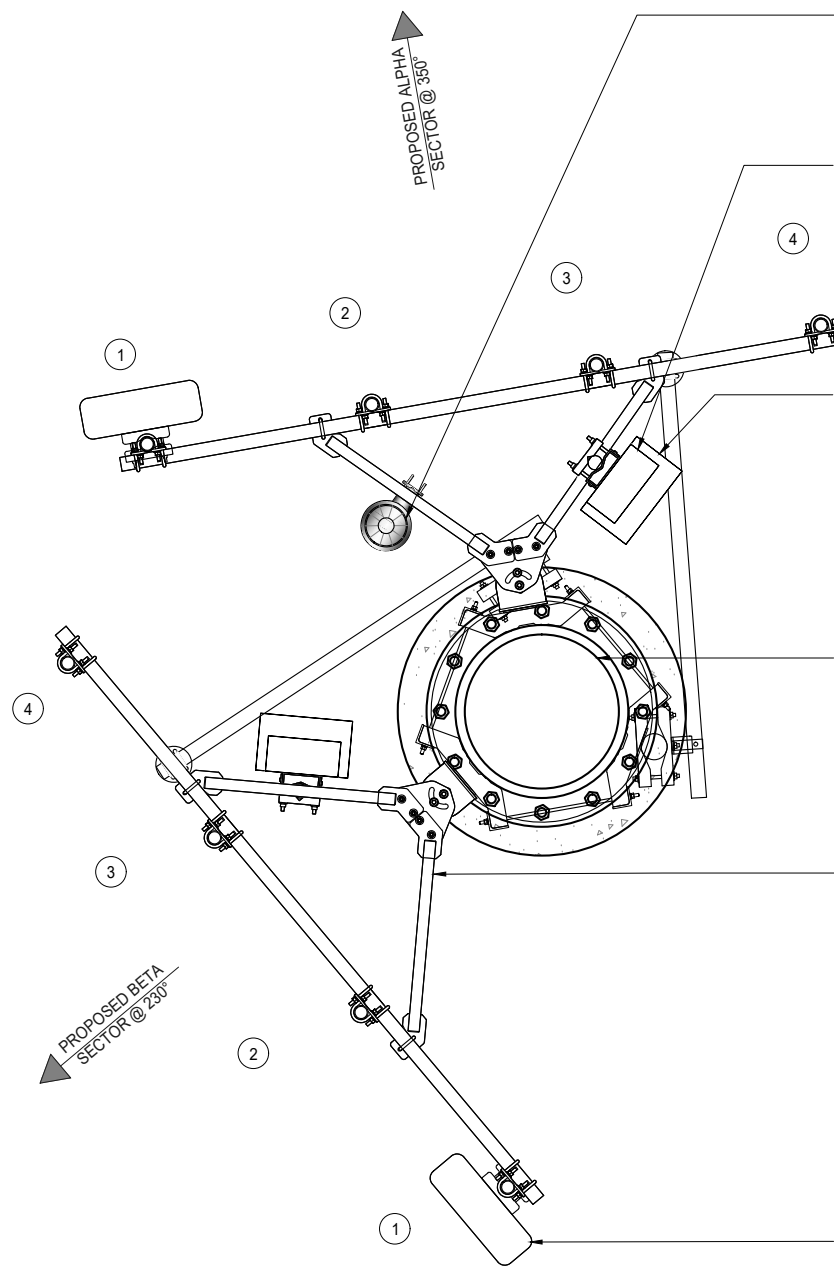
PROPOSED AT&T EQUIPMENT PLAN

0 6" 1' 2'

SCALE: 1/2"=1'-0" (22x34)  
(OR) 1/4"=1'-0" (11x17)

2

PROPOSED AT&T ANTENNA PLAN



PROPOSED AT&T SURGE  
SUPPRESSOR (DC9-48-60-24-8C-EV),  
(1) TOTAL

4  
A-4.1

PROPOSED AT&T RADIO AHLBA  
(NOKIA LTE B12/B14), (2) TOTAL, (1)  
PER SECTOR (TYP. ALL SECTORS)

5  
A-4.1

PROPOSED AT&T RADIO AHFIB  
(NOKIA LTE B25/B66), (2) TOTAL, (1)  
PER SECTOR (TYP. ALL SECTORS)

3  
A-4.1

NEW 62'-0" MONOPINE TOWER ON  
NEW CONCRETE FOOTING

PROPOSED AT&T SECTOR MOUNT  
BY VALMONT P/N: VFA10-RRU3L4NP,  
(2) TOTAL, (1) PER SECTOR (TYP.  
ALL SECTORS)

2  
A-4.1

PROPOSED AT&T PANEL ANTENNA,  
(2) TOTAL, (1) PER SECTOR (TYP.  
ALL SECTORS)

1  
A-4.1



0 3' 6" 1'

SCALE: 3/4"=1'-0" (22x34)  
(OR) 3/8"=1'-0" (11x17)

1



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SHEET TITLE  
**PROPOSED AT&T  
ANTENNA &  
EQUIPMENT PLANS**

SHEET NUMBER  
**A-2.0**

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PROPOSED AT&T 62'-0" MONOPINE TOWER  
ON NEW CONCRETE FOUNDATION

PROPOSED COMMNET FIBER/DC  
& COAX CABLES

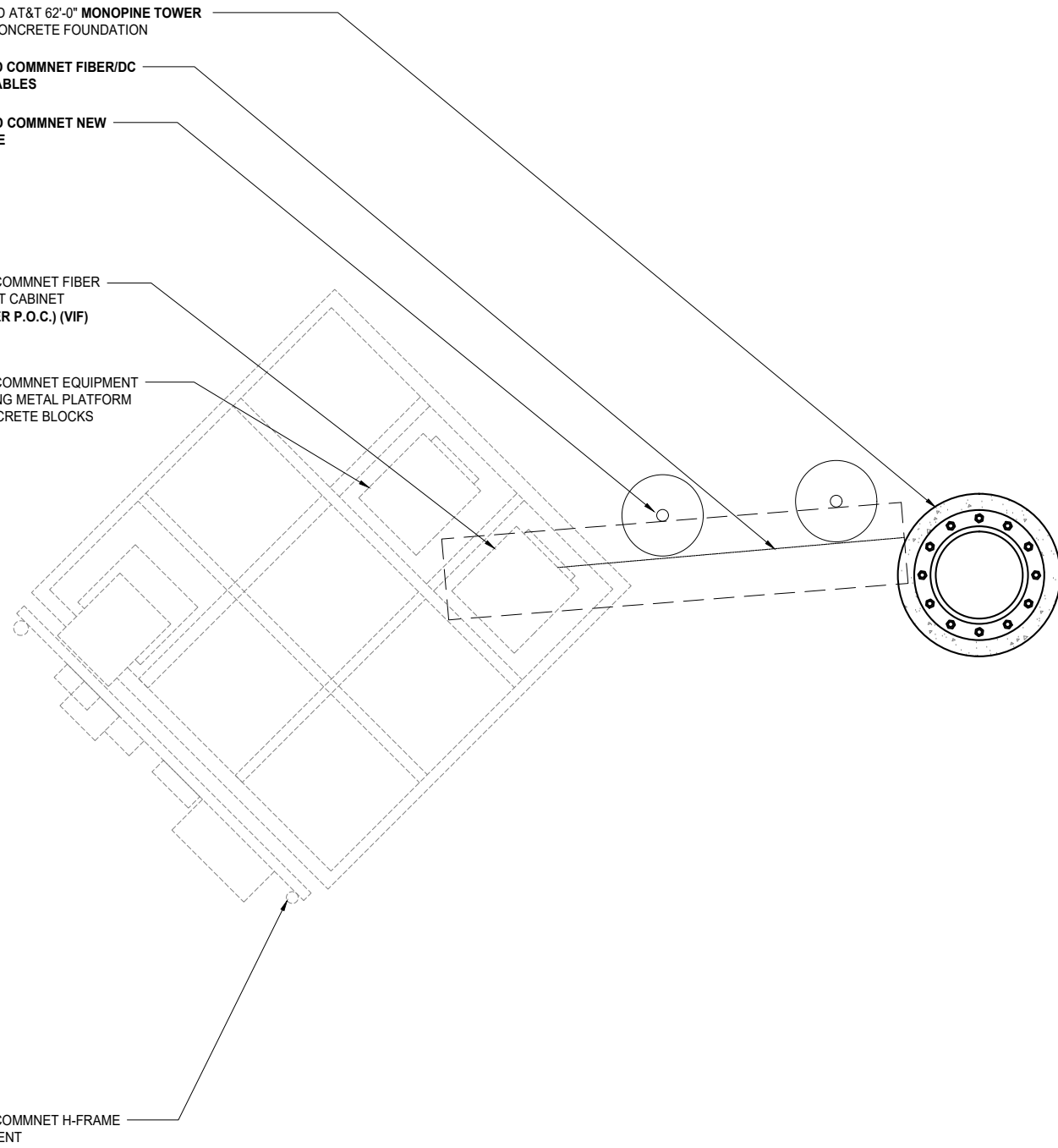
PROPOSED COMMNET NEW  
ICE BRIDGE

4  
A-4.2

EXISTING COMMNET FIBER  
EQUIPMENT CABINET  
(AT&T FIBER P.O.C.) (VIF)

EXISTING COMMNET EQUIPMENT  
ON EXISTING METAL PLATFORM  
WITH CONCRETE BLOCKS

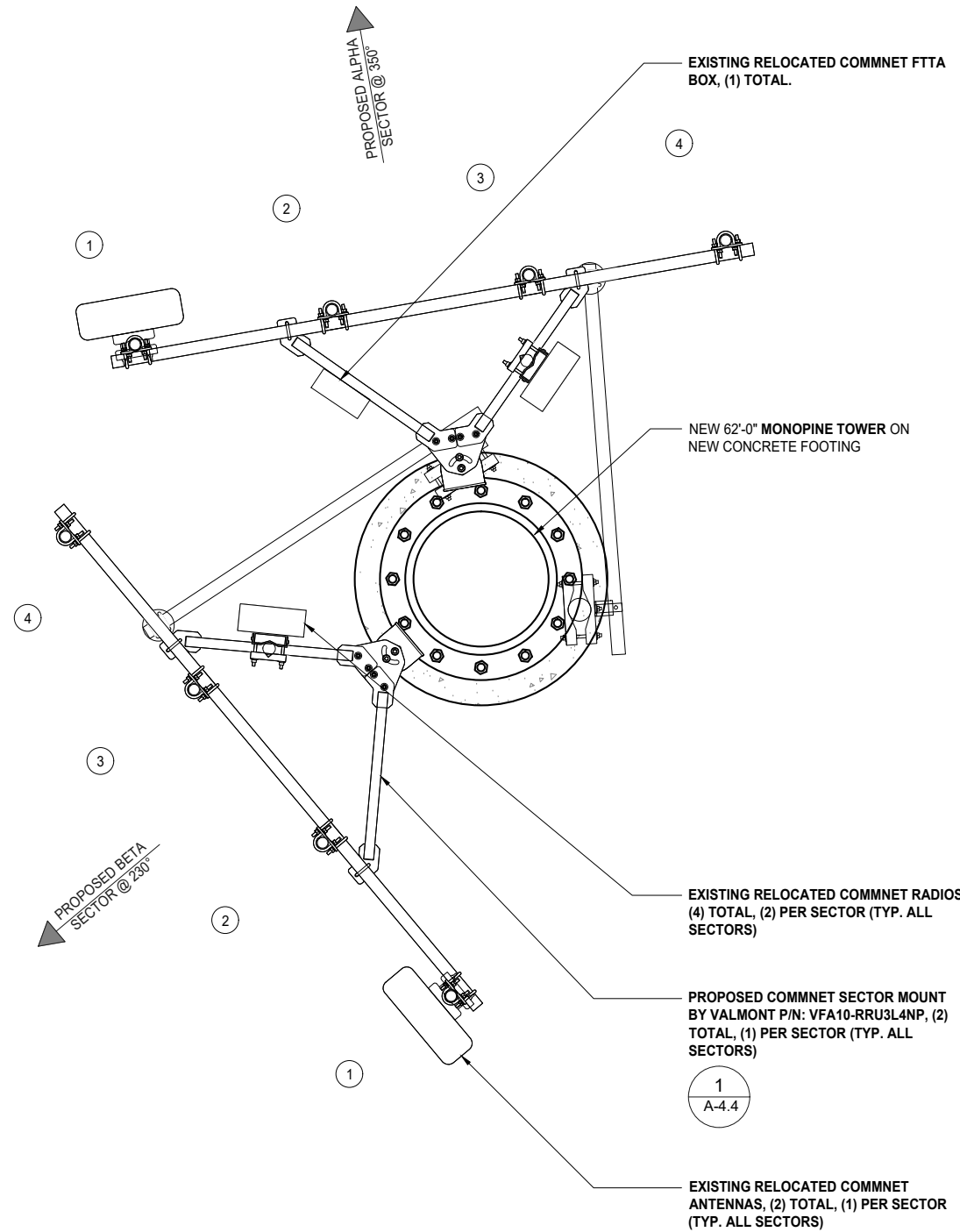
EXISTING COMMNET H-FRAME  
W/EQUIPMENT



PROPOSED COMMNET EQUIPMENT PLAN

0 6" 1' 2'  
SCALE: 1/2"=1'-0" (22x34)  
(OR) 1/4"=1'-0" (11x17)

2



PROPOSED COMMNET ANTENNA PLAN

0 3' 6" 1'  
SCALE: 3/4"=1'-0" (22x34)  
(OR) 3/8"=1'-0" (11x17)

1



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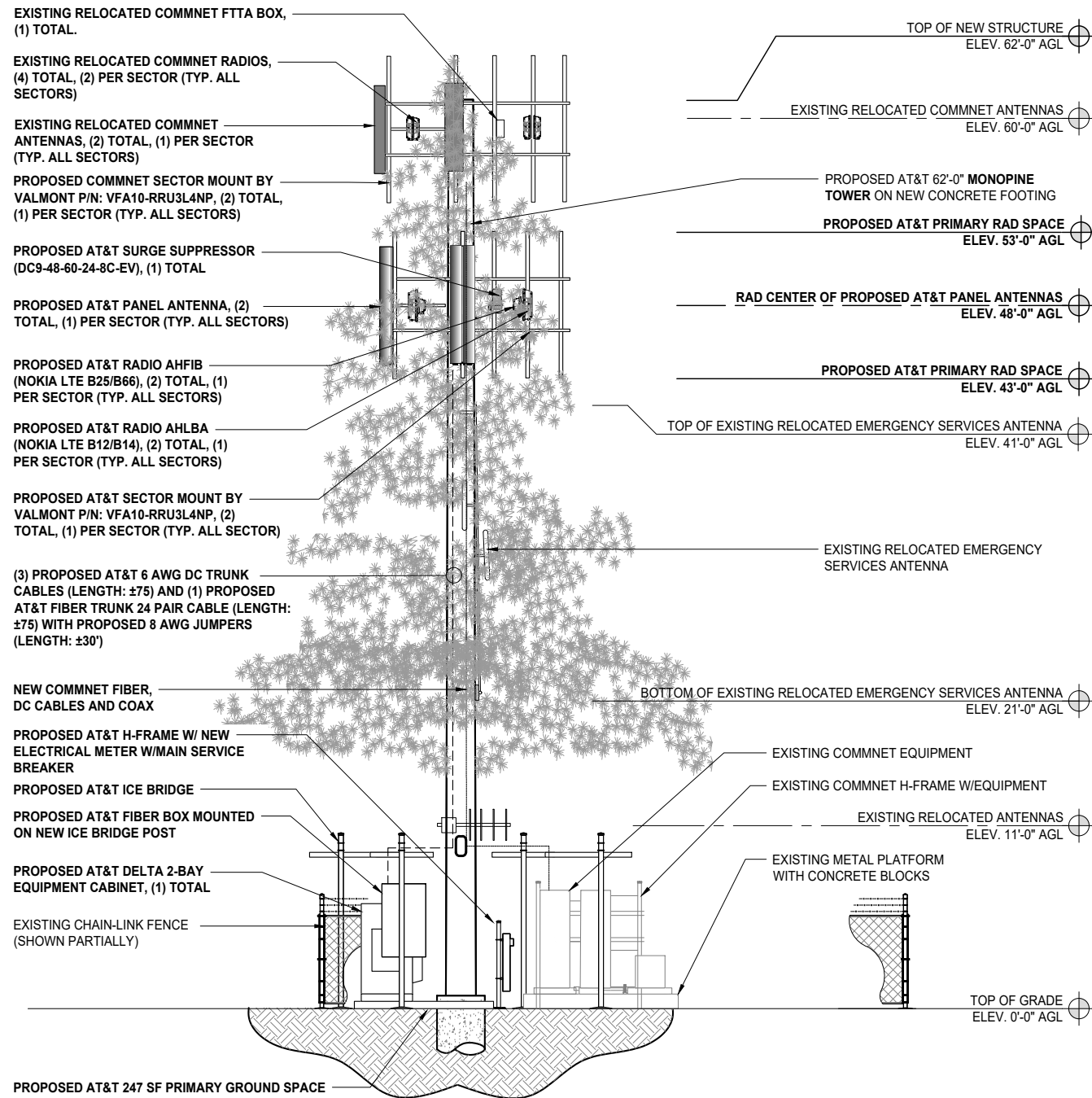
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SHEET TITLE  
**PROPOSED COMMNET  
ANTENNA &  
EQUIPMENT PLANS**

SHEET NUMBER  
**A-2.1**

**NOTE:**  
 • ALL PROPOSED ANTENNAS AND MICROWAVE DISHES SHALL BE PAINTED TO MATCH THE EXISTING STRUCTURE.



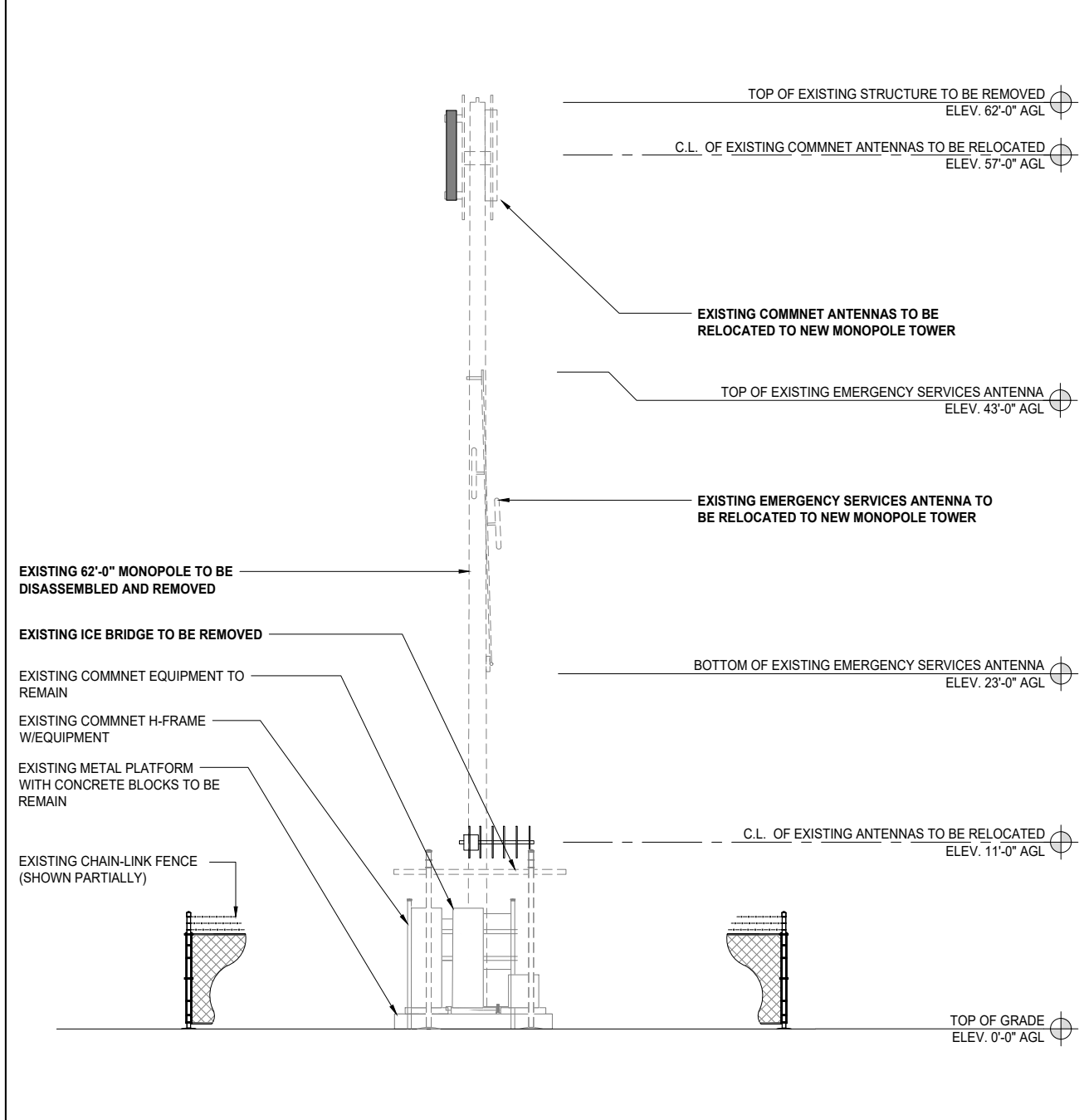
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**PROPOSED NORTHEAST ELEVATION**

0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
 (OR) 3/32"=1'-0" (11x17)

2

**EXISTING NORTHEAST ELEVATION**



0 1.5' 3' 5' SCALE: 3/16"=1'-0" (22x34)  
 (OR) 3/32"=1'-0" (11x17)

1



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SHEET TITLE  
**EXISTING & PROPOSED  
 NORTHEAST  
 ELEVATIONS**

SHEET NUMBER  
**A-3.0**





# ESOF020-HCV02 2-Bay Walk Upto Cabinet (WUC)

## Product Features

- Sealed Multi-bay Equipment and Power Compartment
- Sealed Battery Compartment
- Corrosion Resistant Aluminum enclosure
- Thermo-siphon HEX cooling
- R6 Thermal Insulation Material
- Attachment Rails for AC Load Center
- Rear Access Hatches
- Optional Dual GPS Antenna Mount



## Specifications

Model	ESOF020-HCV02 Walk Upto Cabinet (WUC)
<b>1. General</b>	
System cooling capacity	2.5kW Equip Heat Load with Equip Inlet <55C @ 46C ambient
Dimensions (W x H x D)	68W" x 42"D (50" including HEX) x 80"H (add 6" plinth)
Protection class	NEMA4
Door latches	3 point latches (can be pad locked)
Ground bar	2ea 10-positions
Lifting Mechanism	4 lifting brackets
Equipment Compartment	Bay 1 – 23", 19RU for DC Power System and PDU Bay 2 – 23", 44RU for equipment
Battery Compartment	Shelves for 3 strings batteries, designed for: GNB Marathon M12V180FT Energys SBS190F Energys SBS170F
Weight	1860 lbs (Batteries, Power System and Load Equipment excluded)
Materials:	Enclosure Aluminum AL5052, Inner frames Galvanized steel
Finish	Powder Paint RAL7032
Safety	cULus LISTED pending
<b>2. Environment</b>	
Operating temperature	-40°C to +50°C (-40°F to +122°F)
Storage temperature	-40°C to +75°C (-40°F to +158°F)
Acoustics	65 dBA @ 40C equipment inlet, 75 dBA @ 55C equipment inlet
Humidity (relative)	95%, non-condensing (Max.)
<b>3. Thermal management</b>	
Cooling system	Equipment compartment: 2 200W/K Thermosiphon HEX
Heating system	Equipment compartment: 2 1500W DC heaters Battery compartment: 1 1500W DC heater
<b>4. Equipment</b>	
Arranged for third-party equipment:	AC Load Center (not provided) DC Power System (not provided) Batteries (not provided)
Cable Entry:	
AC Cable	(2) Trade Size 2" ports
Bottom Cable	Arranged for (3) Roxtec EzEntry 24/24 multi-port (not provided) Arranged for (3) Roxtec EzEntry 16/16 multi-port (not provided)
Lower Rear	(4) Trade Size 3" ports
Upper Rear	Arranged for (1) Valmont E575 port kit (not provided)
<b>5. Optional Items</b>	
Optional items	NEQ.20115 – Dual GPS Antenna Mast Kit (Delta 3798100742-S) NEQ.20114 – Wave Guide Top Plate (Valmont E575)
<b>6. Ordering information</b>	
System	NEQ.20212– Cabinet 2-Bay 2-HEX (Delta ESOF020-HCV02)

\*All specifications are subject to change without prior notice.

Delta Group Website:  
[www.deltaww.com](http://www.deltaww.com)

Product Website:  
[www.deltapowersolutions.com](http://www.deltapowersolutions.com)

United States of America & Canada  
Delta Electronics (USA) Inc.  
2925 E. Plano Parkway  
Plano, Texas 75074

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Support  
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1-877-DELTA-08 option 3  
(877-335-8208 option 3)  
[DEUSTPS.Support@deltaww.com](mailto:DEUSTPS.Support@deltaww.com)

Installation Services  
[DEUSTPS.Services@deltaww.com](mailto:DEUSTPS.Services@deltaww.com)

Orders  
[DEUSTPS.Orders@deltaww.com](mailto:DEUSTPS.Orders@deltaww.com)

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RMA  
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SHEET TITLE  
EQUIPMENT DETAILS & SPECIFICATIONS

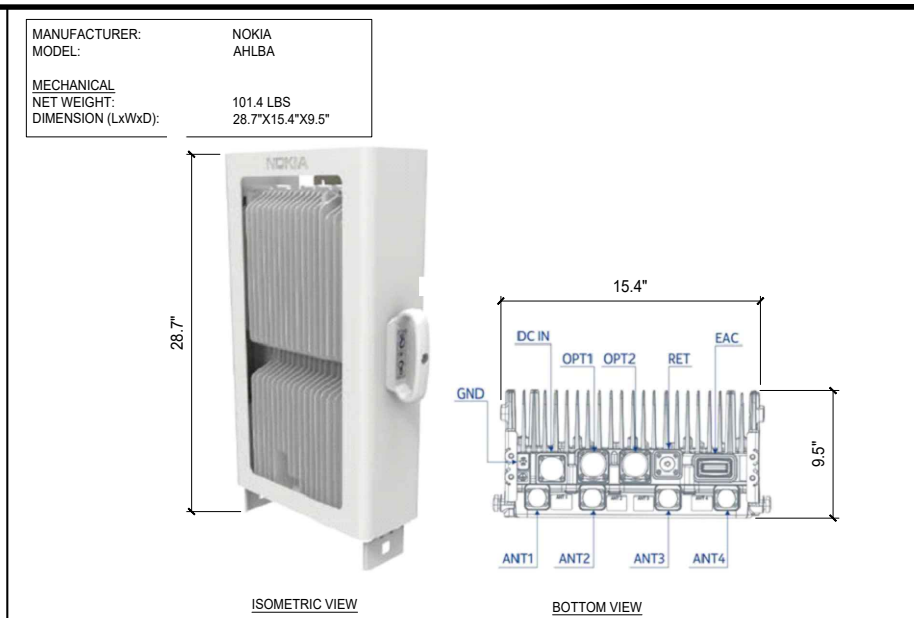
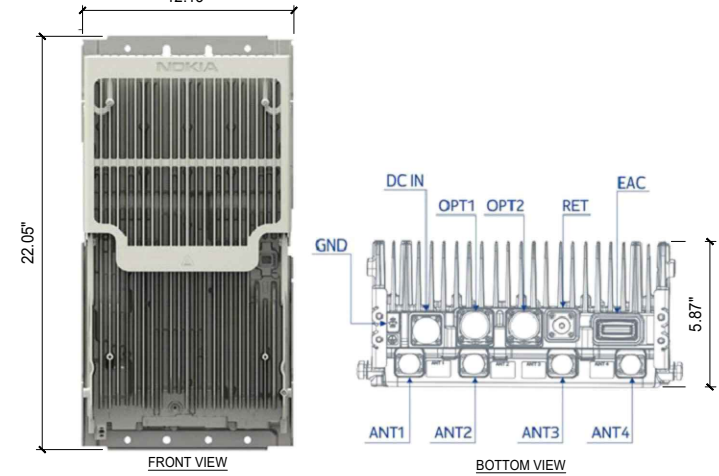
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A-4.0



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MANUFACTURER: NOKIA  
 MODEL: AHFIB  
 MECHANICAL NET WEIGHT: 66.1 LBS  
 DIMENSION (LxWxD): 22.05"x12.13"x5.87"

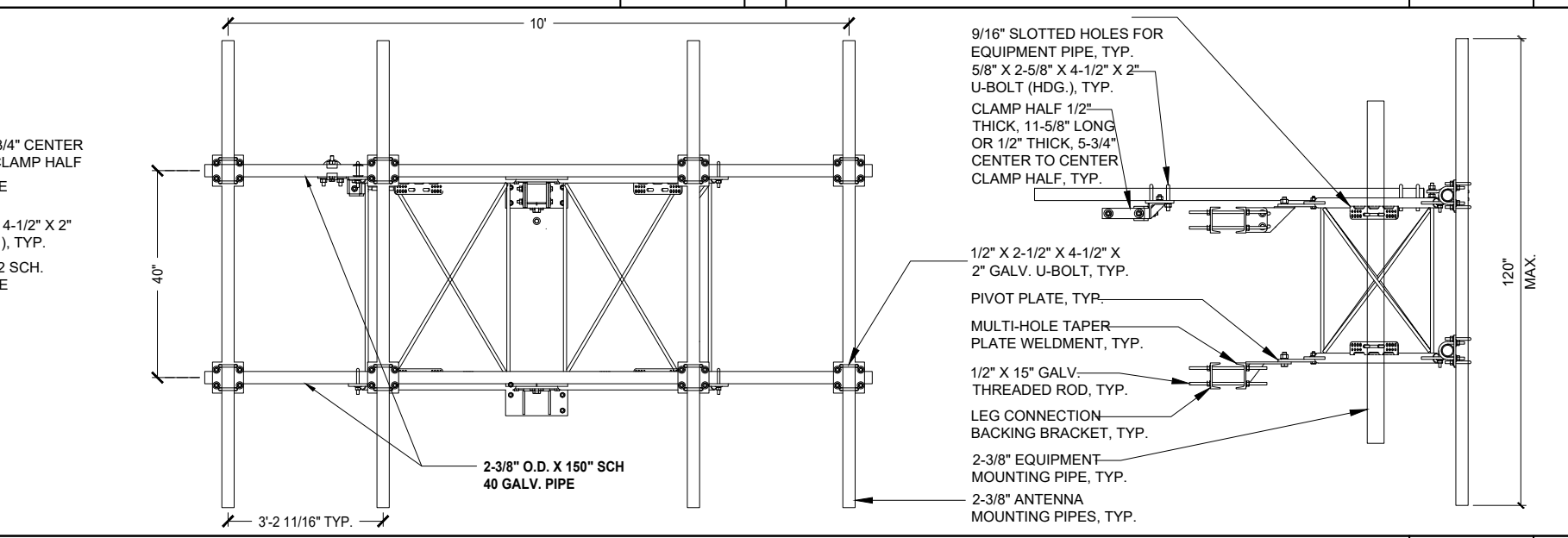
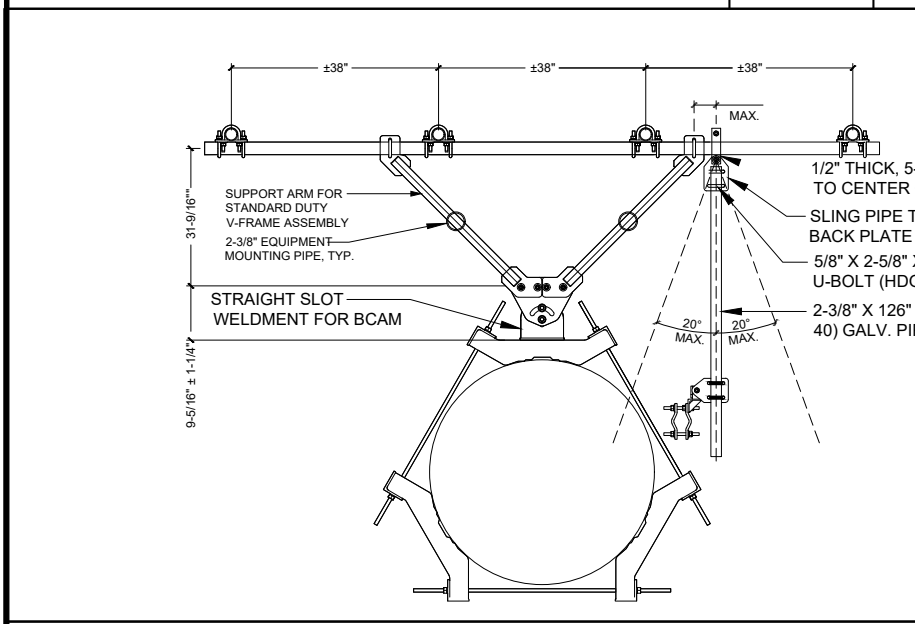


MANUFACTURER: NOKIA  
 MODEL: AHLBA  
 MECHANICAL NET WEIGHT: 101.4 LBS  
 DIMENSION (LxWxD): 28.7"x15.4"x9.5"

NOT USED      NTS      7

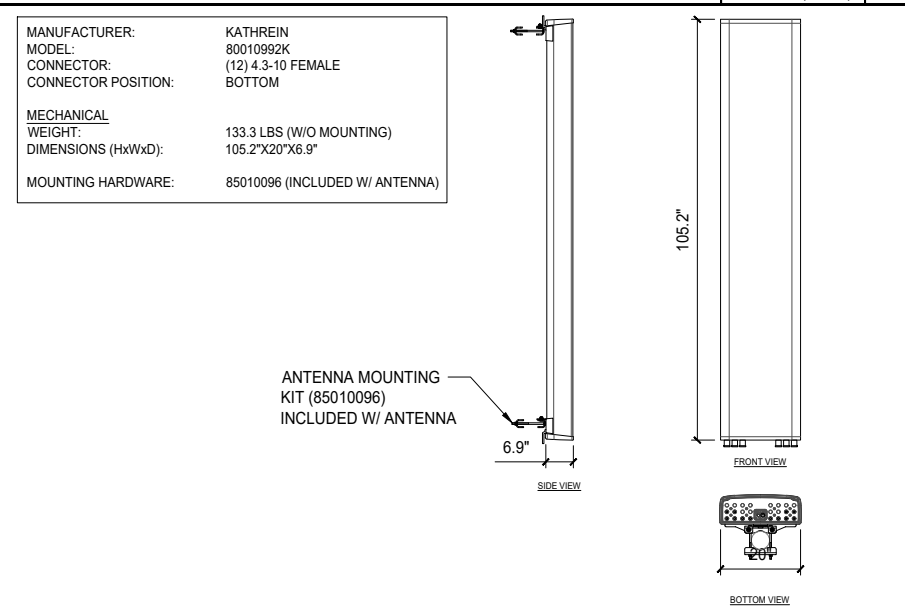
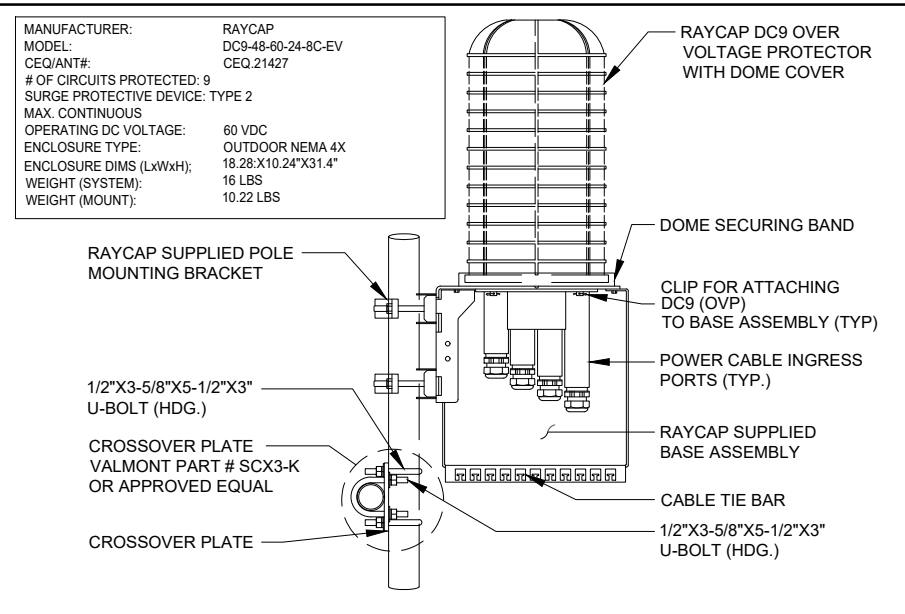
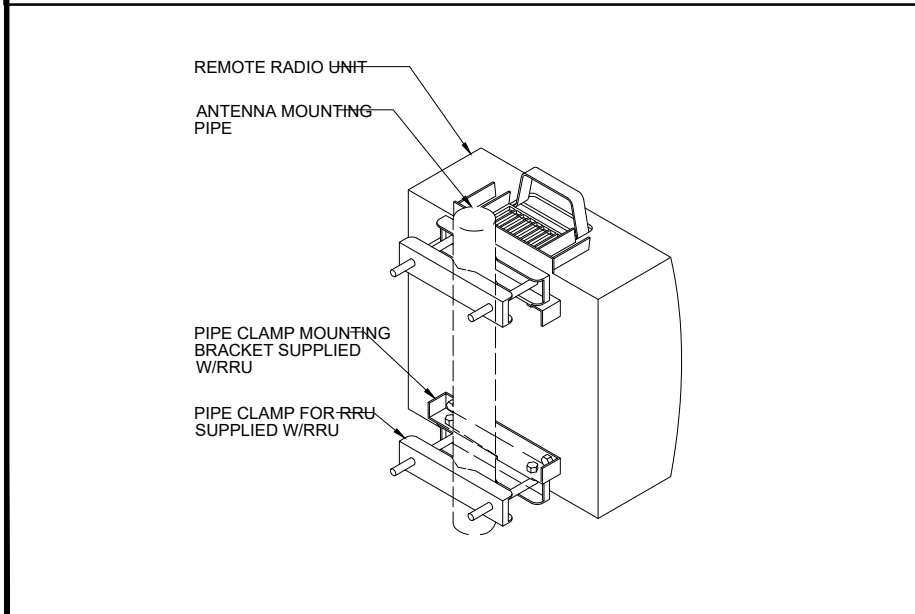
RADIO AHFIB (OR SIMILAR)      NTS      5

RADIO AHLBA (OR SIMILAR)      NTS      3



ANTENNA MOUNTING FRAME (VALMONT PART #: VFA10-RRU3L4NP)

3/4"=1'-0" (22x34)      2  
 3/8"=1'-0" (11x17)



PIPE CLAMP MOUNTING BRACKET      NTS      6

SURGE SUPPRESSOR - DC9-48-60-24-8C-EV      NTS      4

80010992K ANTENNA (OR SIMILAR)      1/2"=1'-0" (22x34)      1/4"=1'-0" (11x17)      1



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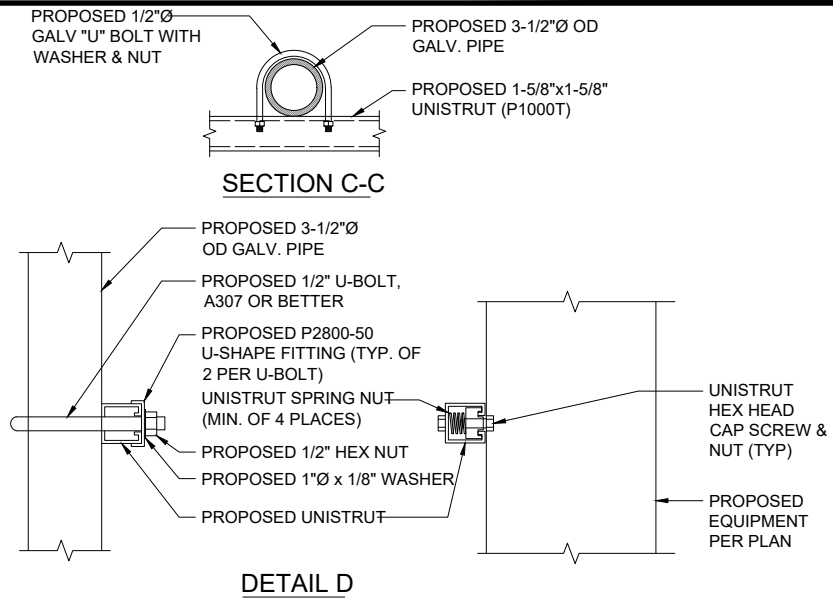
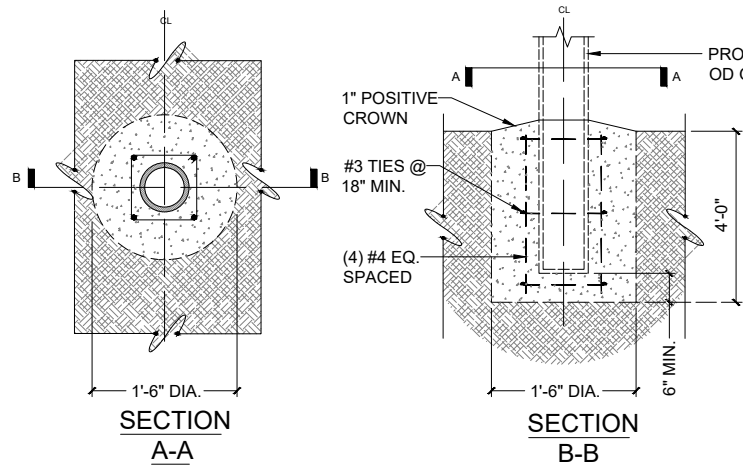
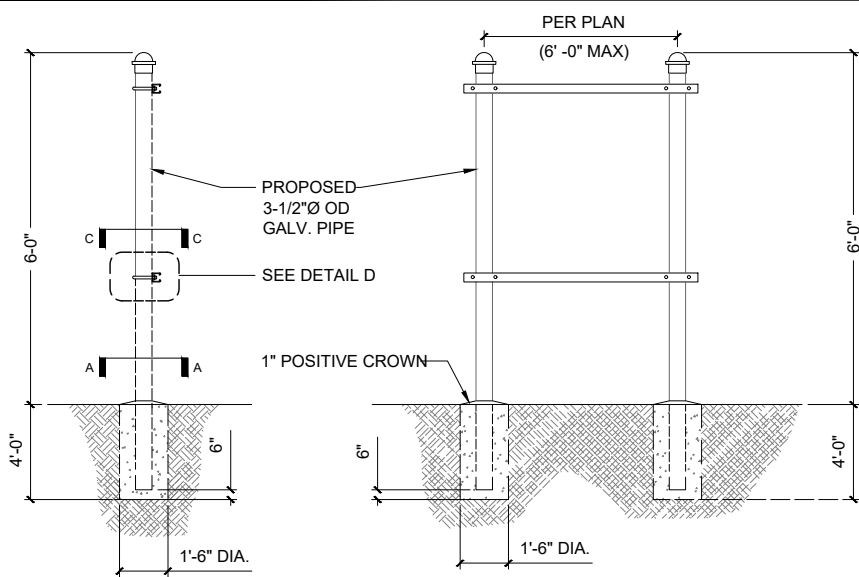
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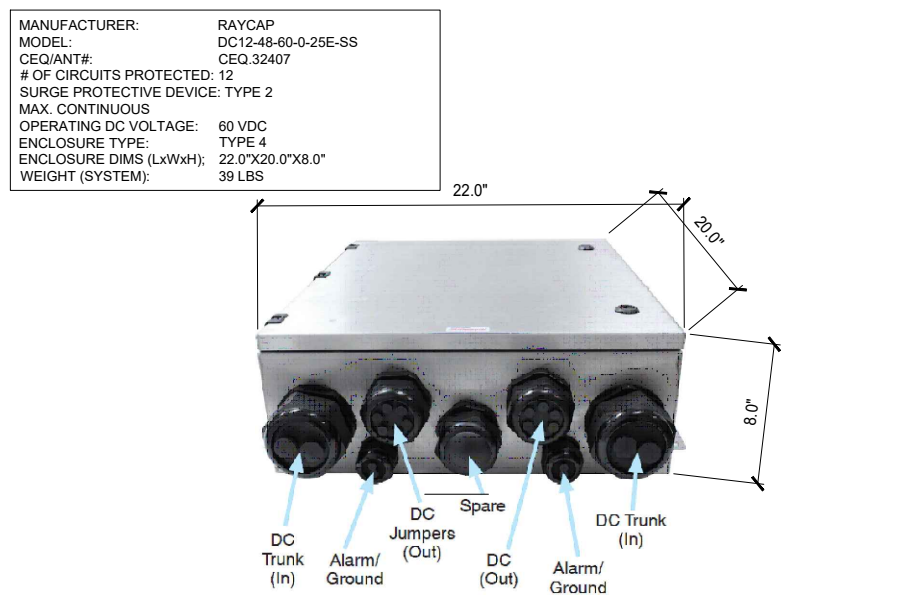
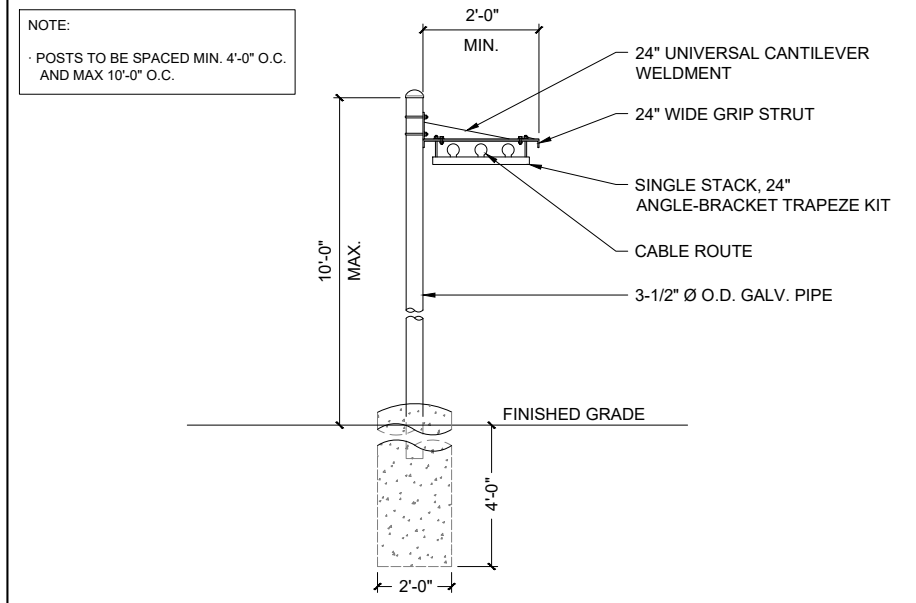
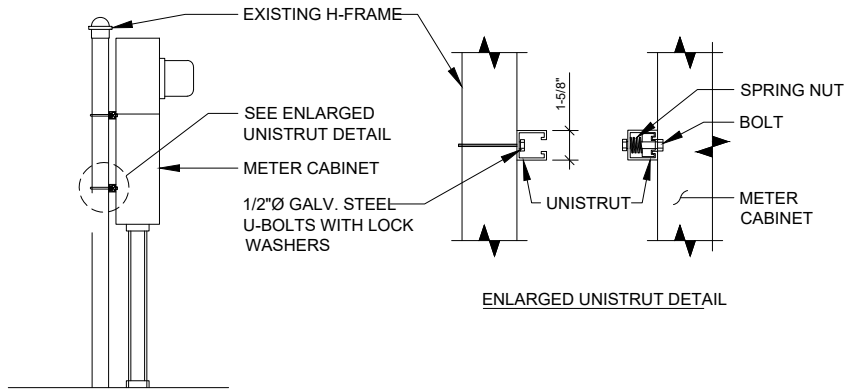
SHEET TITLE  
**EQUIPMENT DETAILS & SPECIFICATIONS**

SHEET NUMBER  
**A-4.1**

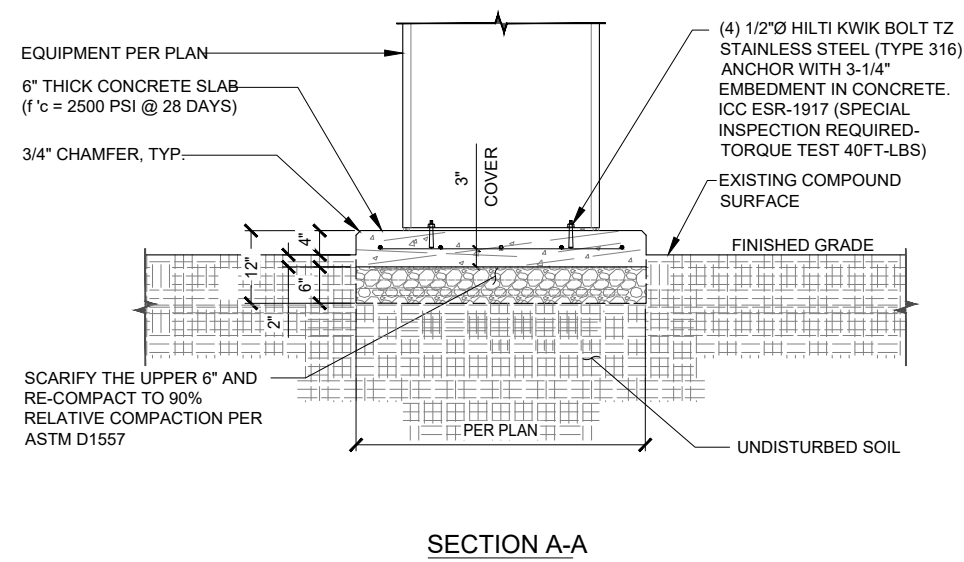
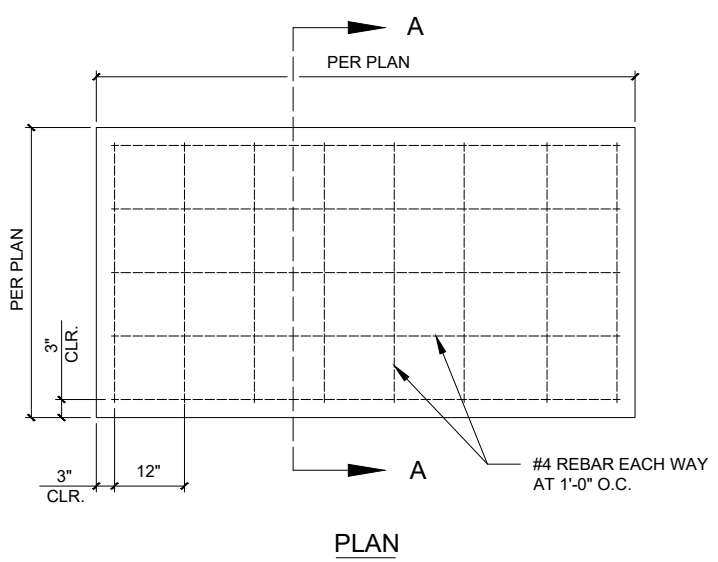




H-FRAME DETAIL NTS 3



METER CABINET TO H-FRAME NTS 6 ICE BRIDGE DETAIL 1"=1'-0" (22x34) 1/2"=1'-0" (11x17) 4 DC12-48-60-25E-SS (OR SIMILAR) NTS 2



NOT USED NTS 5 CONCRETE EQUIPMENT PAD NTS 1

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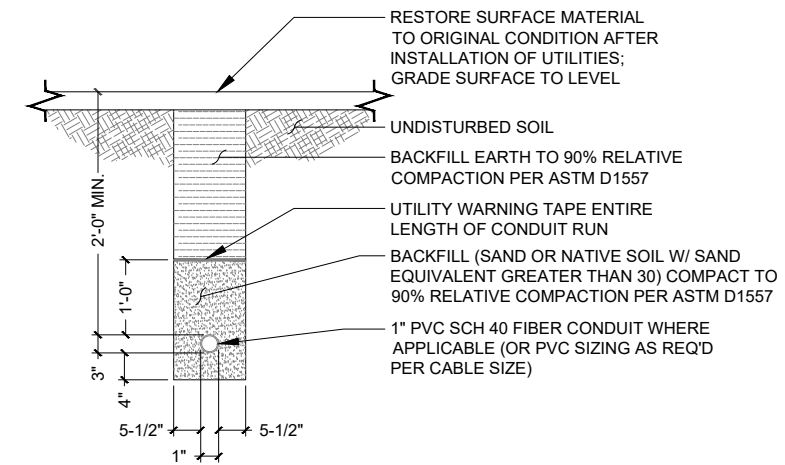
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**EQUIPMENT DETAILS & SPECIFICATIONS**

SHEET NUMBER  
**A-4.2**

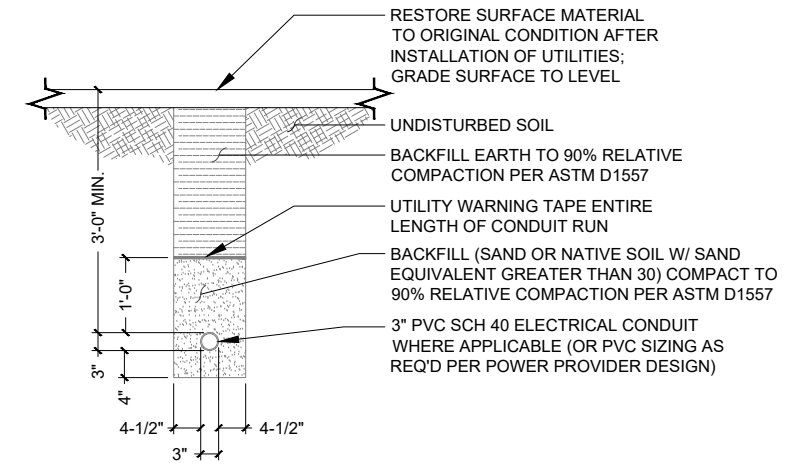
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FIBER TRENCH

NTS

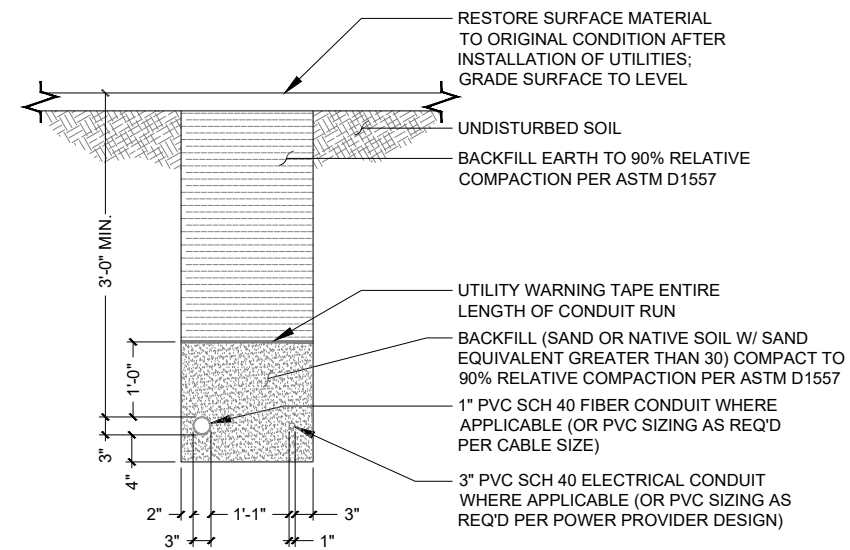
3



POWER TRENCH

NTS

2



DUAL UTILITY TRENCH

NTS

1



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**EQUIPMENT DETAILS & SPECIFICATIONS**

SHEET NUMBER  
**A-4.3**



**Slant +/- 45° Dual Polarized, Panel 63° / 20 dBi**

**Mechanical specifications**

Length	1840 mm	72.44 in
Width	154 mm	6.06 in
Depth	105 mm	4.13 in
Weight	6.8 kg	15 lbs
Wind Area		
Front	0.283 m <sup>2</sup>	3.05 ft <sup>2</sup>
Side	0.217 m <sup>2</sup>	2.34 ft <sup>2</sup>
Rated Wind Velocity (Safety factor 2.0)		
	>237 km/hr	>148 mph
Wind load @ 100 mph (161 km/hr)		
Front	460 N	103.4 lbs
Side	372 N	83.5 lbs

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

**Mounting & Downtilting:**

Wall mounted or pole tower mount with mounting brackets.

- Mounting bracket kit #26799997
- Downtilt bracket kit #26799999
- The downtilt bracket kit includes the mounting bracket kit.

**Electrical specifications**

Frequency Range	1850-1990 MHz
Impedance	50Ω
Connector	NE, E-DIN
1) VSWR	≤1.4:1
Polarization	Slant ± 45°
1) Isolation Between Ports	< -30 dB
1) Gain	20 dBi
2) Power Rating	250 W
1) Half Power Angle	
H-Plane	63°
E-Plane	5°
1) Electrical Downtilt	0°
1) Null Fill	5%
Lightning Protection	Direct Ground

Patented Dipole Design: U.S. Patent No. 6,597,324 B2

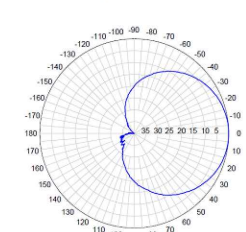
1) Typical Values  
 2) Power Rating limited by connector only.  
 3) NE indicates an elongated N Connector.  
 E-DIN indicates an elongated DIN Connector.  
 4) The antenna weight listed above does not include the bracket weight.  
 Improvements to mechanical and/or electrical performance of the antenna may be made without notice.

1300 Capital Drive Rockford, IL 61109 Toll-Free (888) 417-9562 Tel. (815) 399-0001  
 Fax. (815) 399-0156 Email: antel@antelinc.com www.antelinc.com

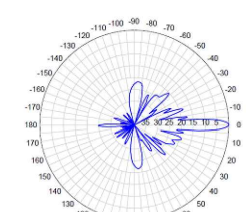
**BXA-185063/12CF**

When ordering, replace "\_\_\_" with connector type.

**Radiation-pattern<sup>1)</sup>**



Horizontal



Vertical

Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back Ratio.

CF Denotes a Center-Fed Connector.

**1850-1990 MHz**



**Amphenol Antel's Exclusive 3T (True Transmission Line Technology) Antenna Design:**

- Watercut brass feedline assembly for consistent performance.
- Unique feedline design eliminates the need for conventional solder joints in the signal path.
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

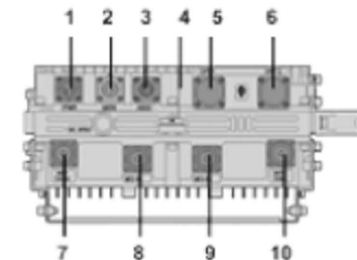
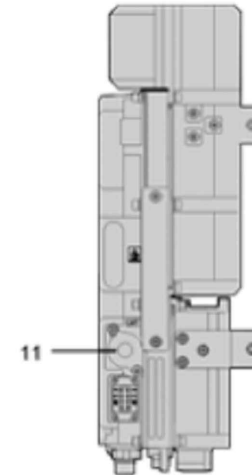
Every Amphenol Antel antenna is under a five-year limited warranty for repair or replacement.

Antenna available with center-fed connector only.



Revision Date: 1/27/05

MANUFACTURER:	ZTE
MODEL:	ZXSDR - R8882 (2*60W)
MECHANICAL	
NET WEIGHT:	23 KG - 50.7 LBS
DIMENSION (LxWxD):	18.9"X12.6"X5.1" (480*320*150 mm)
MANUFACTURER:	ZTE
MODEL:	ZXSDR - R8882 (2*40W)
MECHANICAL	
NET WEIGHT:	20 KG - 44.09 LBS
DIMENSION (LxWxD):	14.96"X12.6"X5.51" (380*320*140 mm)



a: Front view  
 b: Side view  
 c: Bottom view



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I	10/04/21	90% CD FOR REVIEW	YH

ANTENNA AMPHENOL ANTEL BXA-185063/12CF

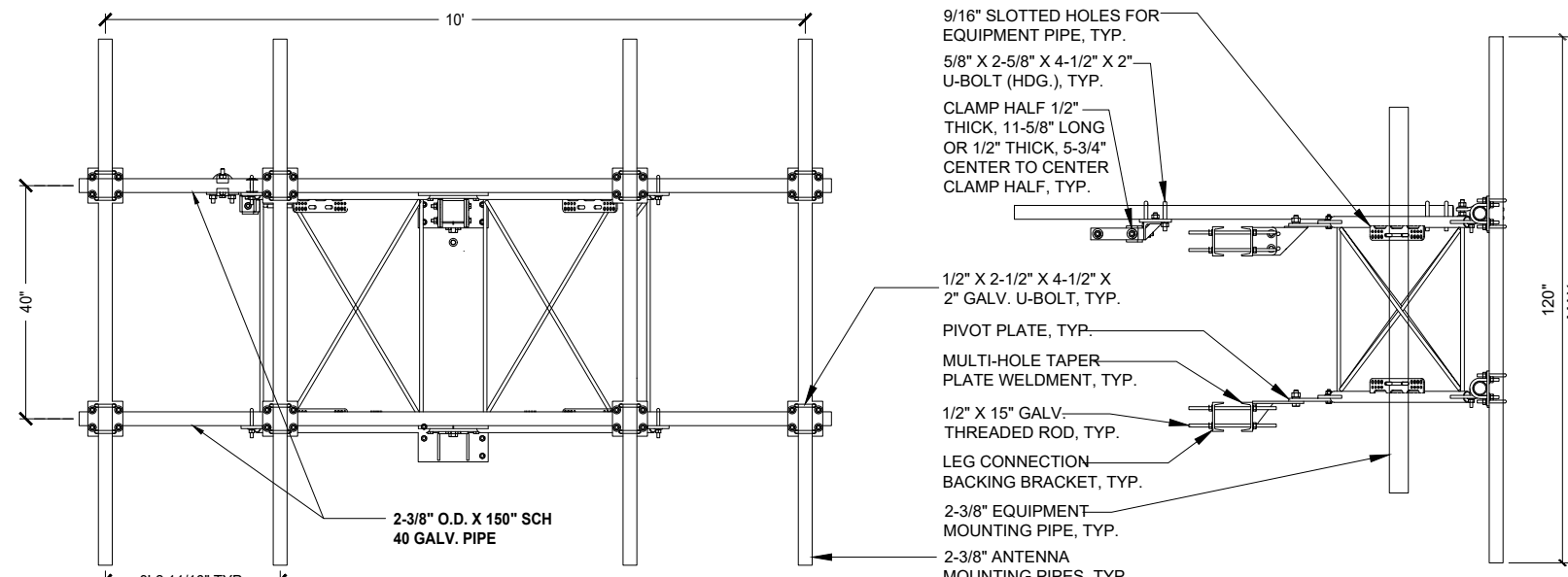
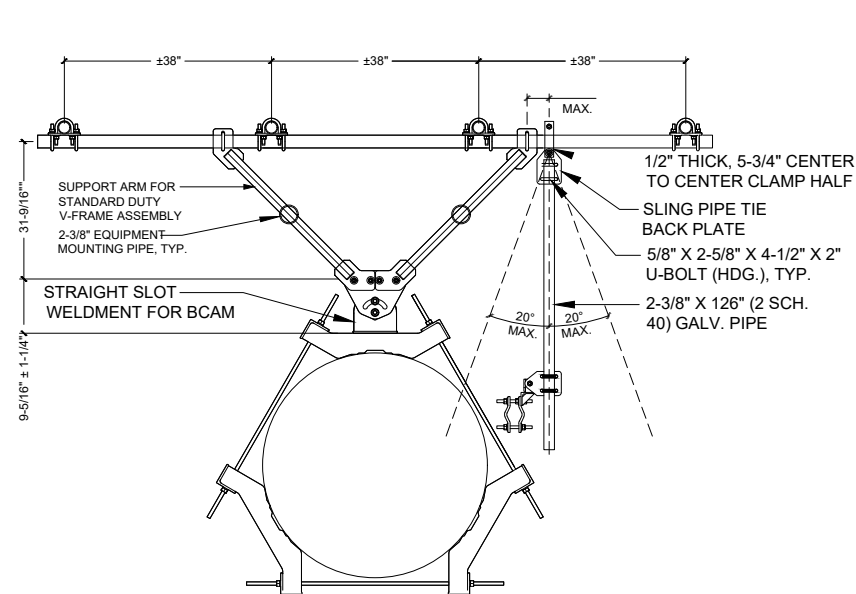
NTS

3

RADIO ZTE ZXSDR R8882

NTS

2



ANTENNA MOUNTING FRAME (VALMONT PART #: VFA10-RRU3L4NP)

3/4"=1'-0" (22x34)	1
3/8"=1'-0" (11x17)	

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FIRSTNET  
 JEMEZ SPRINGS  
 NML02659A  
 17816 HIGHWAY 4  
 JEMEZ SPRINGS, NM 87025

SHEET TITLE  
**COMMNET EQUIPMENT  
 DETAILS & SPECIFICATIONS**

SHEET NUMBER  
**A-4.4**

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Market / Call Sign		Commnet Four Corners / WPT1719/WPOK572		Jemez Springs		NM		Sandoval	
FCC #/Site Identifier		existing site / Johnson Property		Latitude Deg		35		Lat Min	
Engineer		J. Hall		Longitude Deg		106		Long Min	
Date (mm/dd/yy)		8/20/2020		Lat Sec		17.44		Lat Decimal	
Candidate Sheet Information		Upgrade		Revision #		Rev 8		Long Sec	
Modified By		J. Hall		Long Decimal		-106.688786		Structure HT (ft)	
		Ground Elev (ft)		6331		Structure Type		monopole	

Technology	UMTS	CDMA-1x	EVDO	LTE-FDD						
BTS Vendor	ZTE	ZTE	ZTE	ZTE						
BTS Model / RRU model	BS8900/R8882	BS8900/R8882	BS8900/R8882	BS8900/R8882						
Switch Name	Castle Rock	Castle Rock	Castle Rock	Castle Rock						
Radios on Tower or at Base	Tower	Tower	Tower	Tower						
Feeder Type	Fiber	Fiber	Fiber	Fiber						
Feeder length (ft)	80	80	80	80						
Frequency Band	1900MHz B5 Band	1900MHz C1 Partial	1900MHz C1 Partial	1900MHz C3 Band						
Channel/Carrier Totals Per Sector	1-1-0	1-1-0	2-2-0	1-1-0						
Carrier Bandwidth (LTE)	n/a	n/a	n/a	n/a						
# of Extended Range Radios (of total)	0	0	0	0						
Cell Radius / sector(14,28,75,103)(km)	14-14-0	14-14-0	14-14-0	14-14-0						
MIMO	n/a	n/a	n/a	2x2						
Equipment Site Totals	Base Cabinets	RRUs or RRHs	WISP Radios	Antennas	Coax Lines	Fiber Lines	Power Lines	CAT5 Lines	TMA's	FTTA or Squid
	2	4	0	2	0	2	1	0	0	1

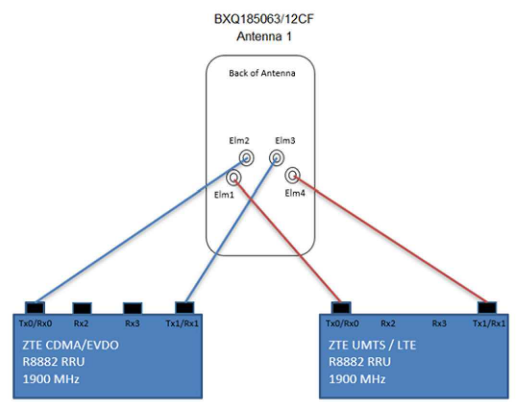
This site will cover the town of Jemez Springs from Madrid Road north to Redondo Road, and Hwy 4 between Madrid Rd and Redondo Rd.

Site Notes / Project Description	Change History
8/20/2020-Addition of FirstNet antennas and equipment. Tower height updated. For Commnet, rad center, fiber lengths, spectrum updated, cell radius added.	
FirstNet antennas and equipment added on third sheet. Tower drop and swap to accommodate AT&T/FirstNet installation. Replace existing monopole with new 62' monopole. Height of existing pole was measured at 62', new pole must remain the same height. Move RRU's and antennas to new tower. Coordinates from 2C letter. This sheet contains information for the existing Commnet equipment only!	

**Sector Information**  
Note that all port-specific and cabling information will be on next tab in Plumbing Diagram

Antenna Number	Antenna 1	Antenna 2																	
Antenna Model	BXQ185063/12CF																		
Antenna Manufacturer	Amphenol																		
Antenna Type (panel,omni)	quad pole panel																		
RET capable	no																		
Antenna Center Line (ft)	60																		
Antenna Azimuth	350																		
RRU / RRH Mounting Height (ft)	60																		
TMA Model	n/a																		

Diagrams below are for representation purposes only, the bottom/back of the antenna/RRU may look slightly different. Follow naming conventions.



REVISIONS				
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H	09/24/21	90% CD FOR REVIEW	YH	
I	10/04/21	90% CD FOR REVIEW	YH	

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JEMEZ SPRINGS  
NML02659A  
17816 HIGHWAY 4  
JEMEZ SPRINGS, NM 87025

SHEET TITLE  
**COMMNET EQUIPMENT  
DETAILS &  
SPECIFICATIONS**

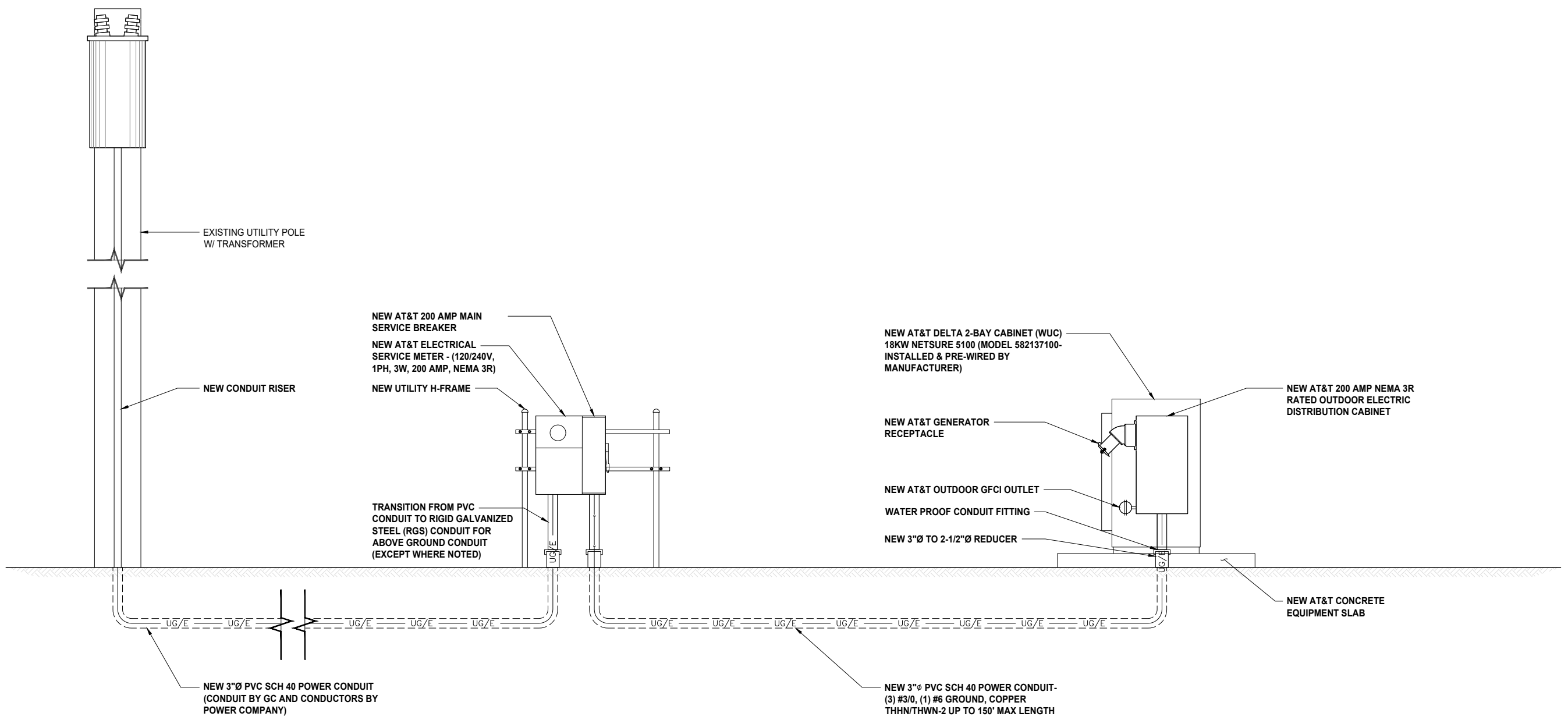
SHEET NUMBER  
**A-4.5**

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SYMBOLS KEY			
	DISCONNECT SWITCH		FUSE
	UTILITY METER		GENERATOR
	CIRCUIT BREAKER		LIGHT SWITCH



**Commnet**  
Connecting Rural America

**SAC**  
A Nokia company  
5015 SHOREHAM PLACE, SUITE 150  
SAN DIEGO, CA 92122  
www.sacw.com

**WESTCHESTER SERVICES LLC**  
604 FOX GLEN  
BARRINGTON, IL 60010  
TELEPHONE: 847-277-0070  
FAX : 847-277-0080  
ae@westchesterservices.com

**JOHN M. BANKS ARCHITECT**  
604 FOX GLEN  
BARRINGTON, IL 60010  
TELEPHONE: 847-277-0070  
FAX : 847-277-0080  
jbanks@westchesterservices.com

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I	10/04/21	90% CD FOR REVIEW	YH

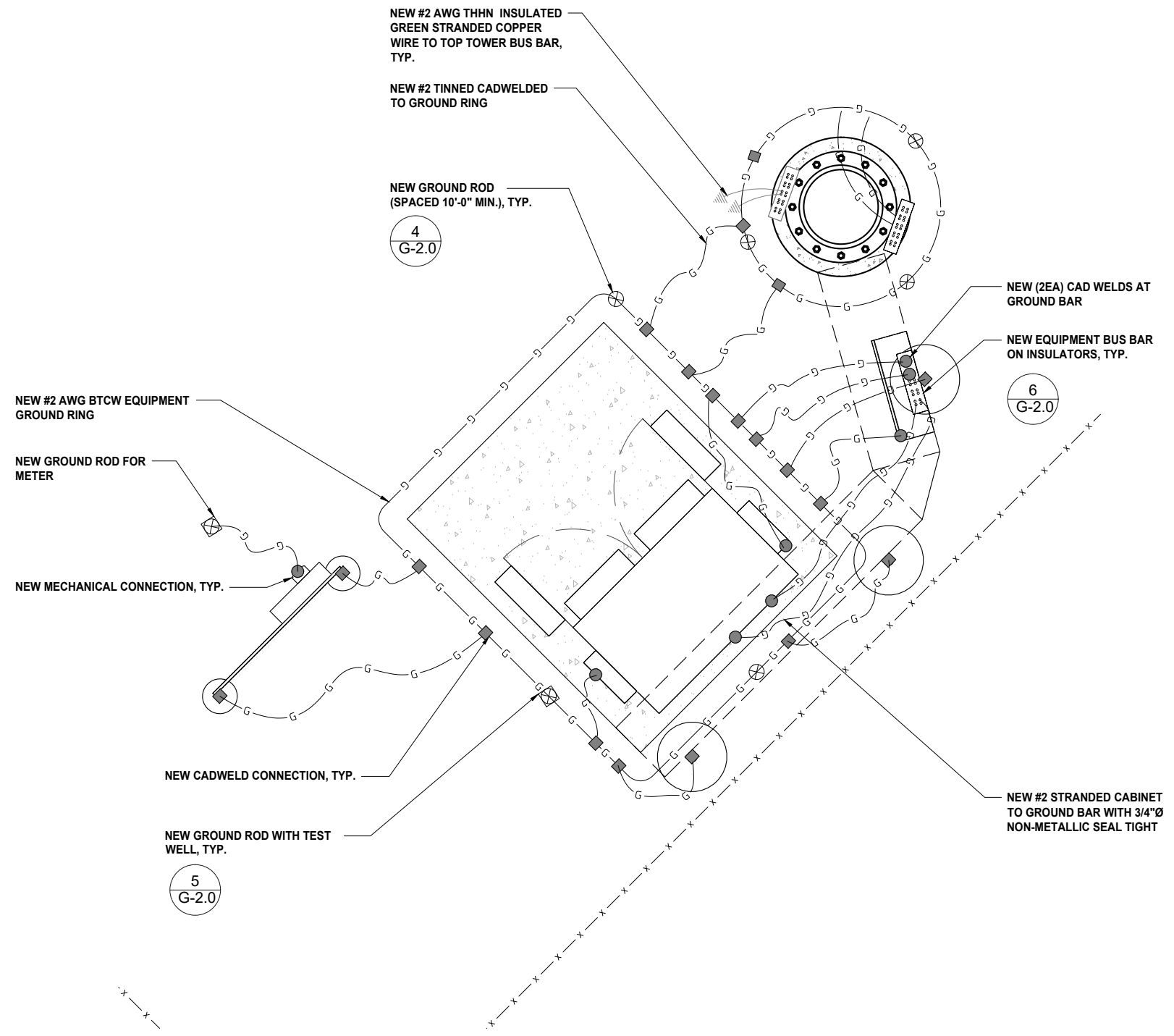
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SHEET TITLE  
**1-LINE DIAGRAM & SYMBOLS KEY AT&T**

SHEET NUMBER  
**E-1.0**

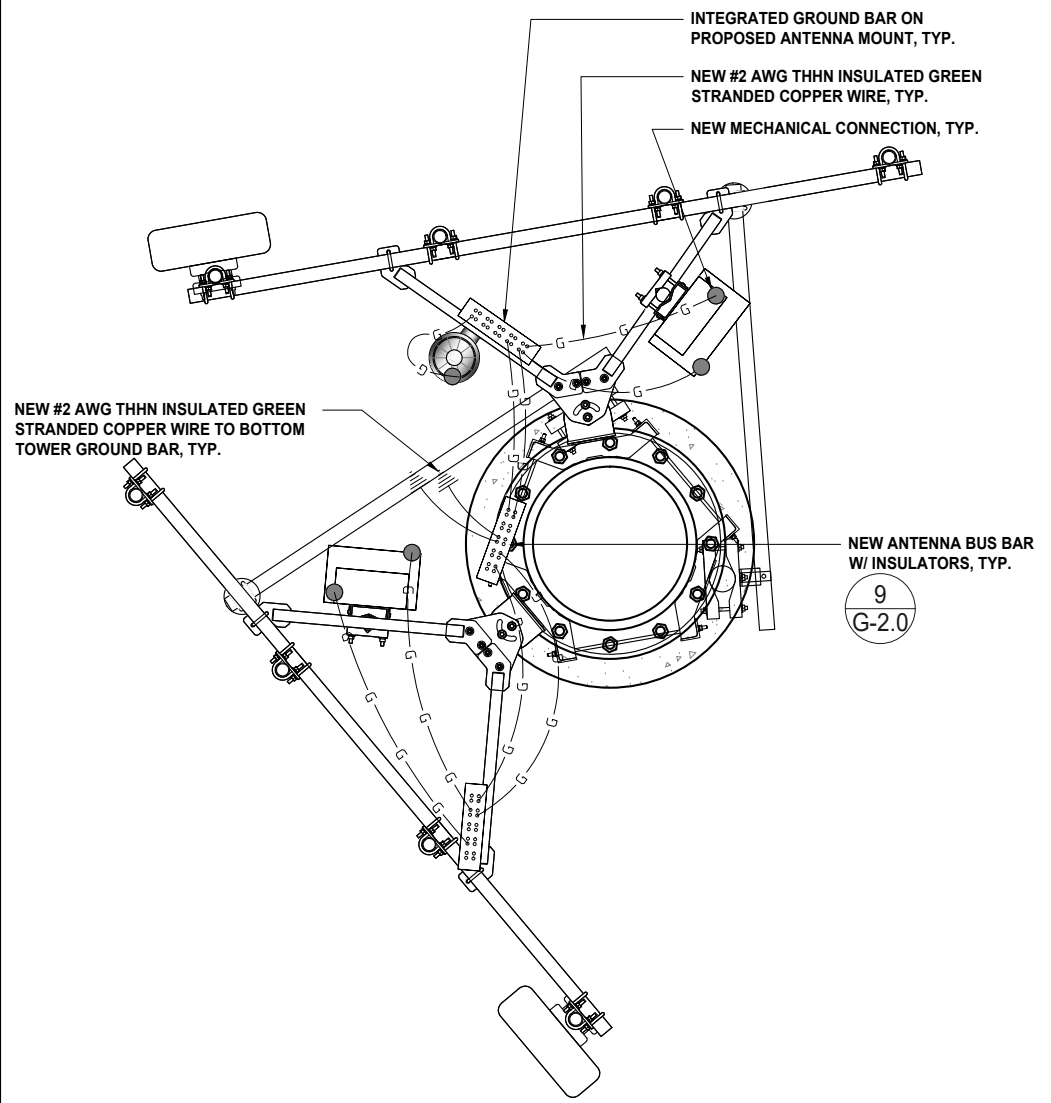
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**PROPOSED AT&T EQUIPMENT GROUNDING PLAN**

0 6" 1' 2' SCALE: 1/2"=1'-0" (22x34)  
(OR) 1/4"=1'-0" (11x17)

2



**PROPOSED AT&T ANTENNA GROUNDING PLAN**

0 3' 6" 1' SCALE: 3/4"=1'-0" (22x34)  
(OR) 3/8"=1'-0" (11x17)

1



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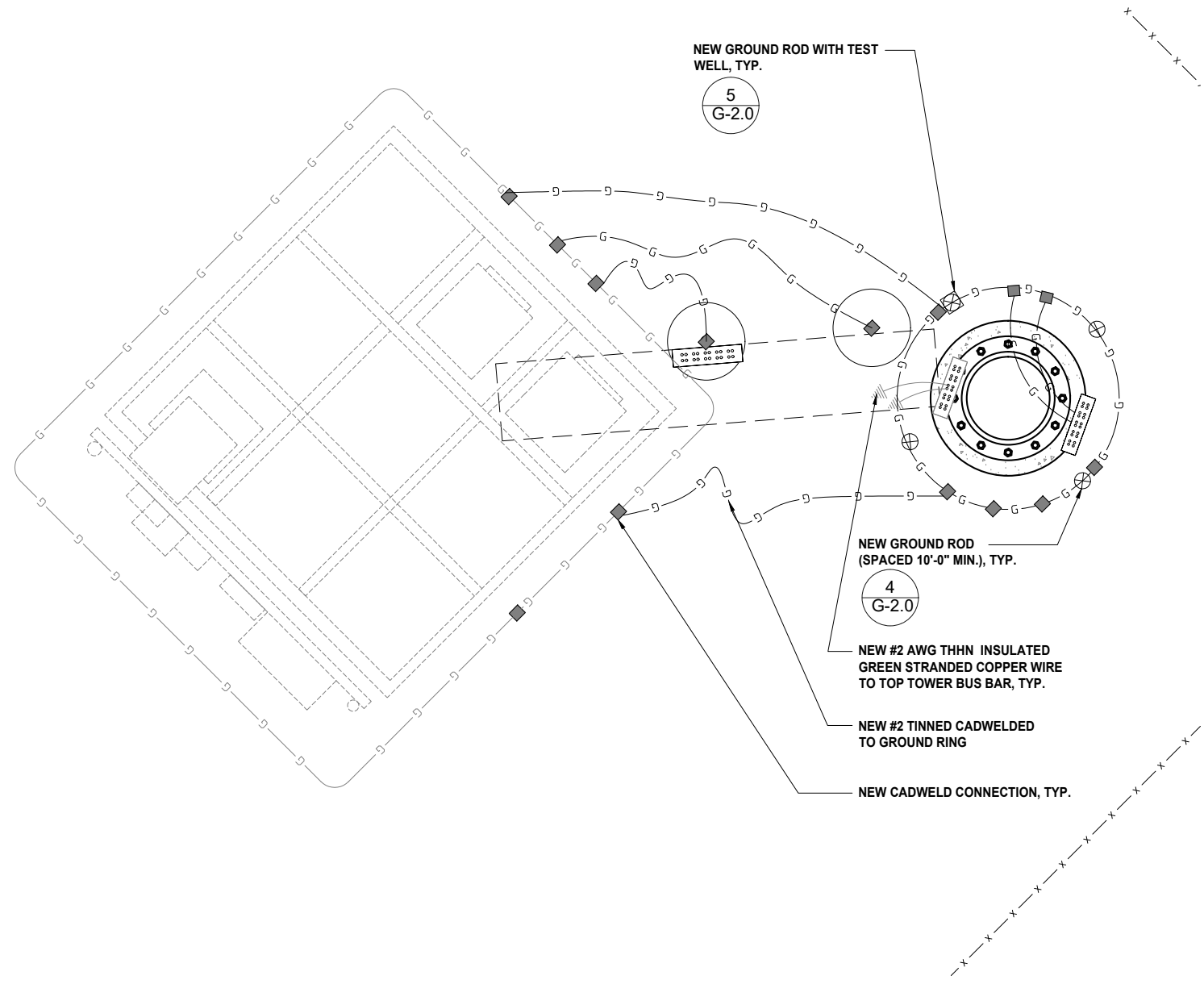
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17816 HIGHWAY 4  
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SHEET TITLE  
**AT&T EQUIPMENT & ANTENNA GROUNDING PLANS**

SHEET NUMBER  
**G-1.0**

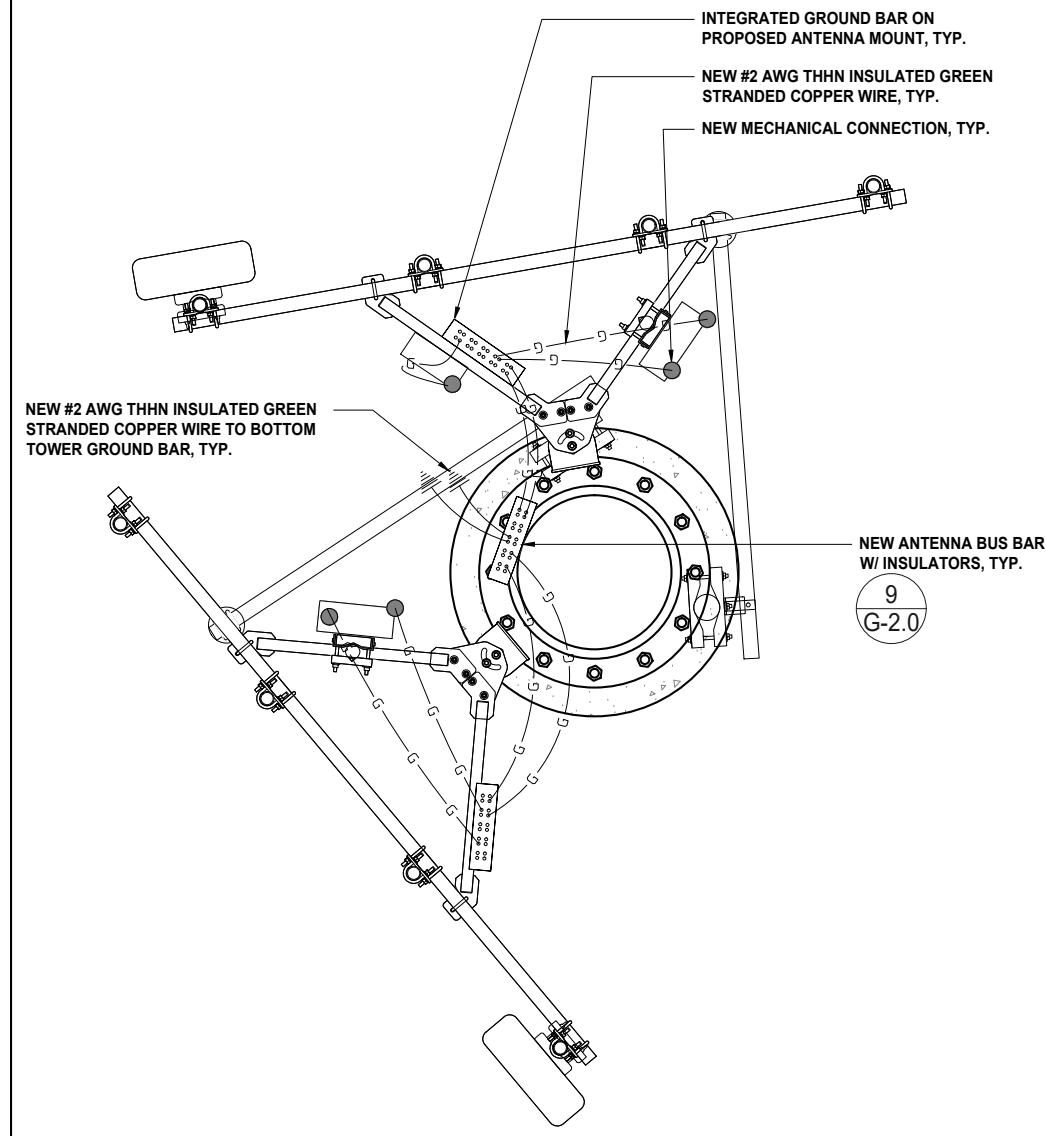
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**PROPOSED COMMNET EQUIPMENT GROUNDING PLAN**

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(OR) 1/4"=1'-0" (11x17)

2



**PROPOSED COMMNET ANTENNA GROUNDING PLAN**

0 3" 6" 1' SCALE: 3/4"=1'-0" (22x34)  
(OR) 3/8"=1'-0" (11x17)

1



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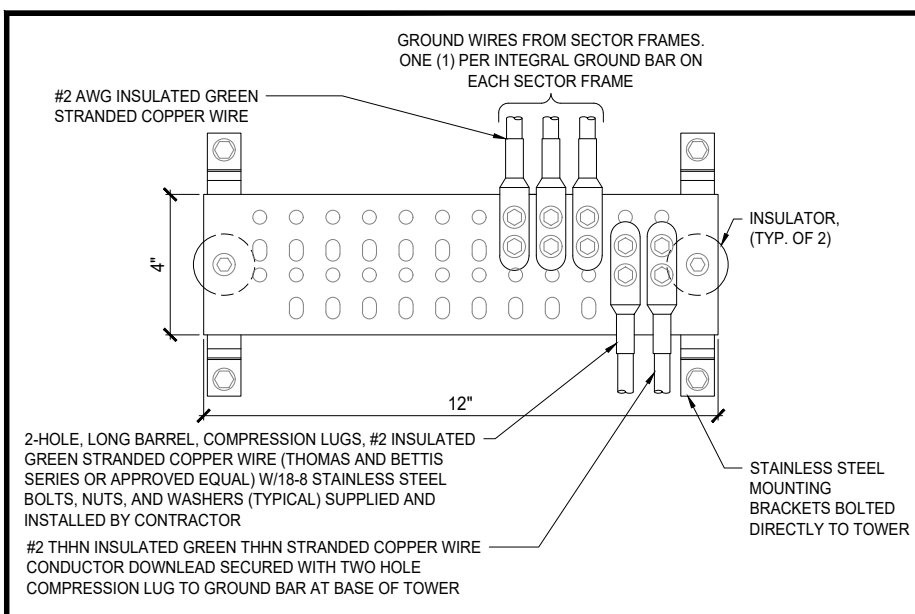
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JEMEZ SPRINGS, NM 87025

SHEET TITLE  
**COMMNET EQUIPMENT  
& ANTENNA  
GROUNDING PLANS**

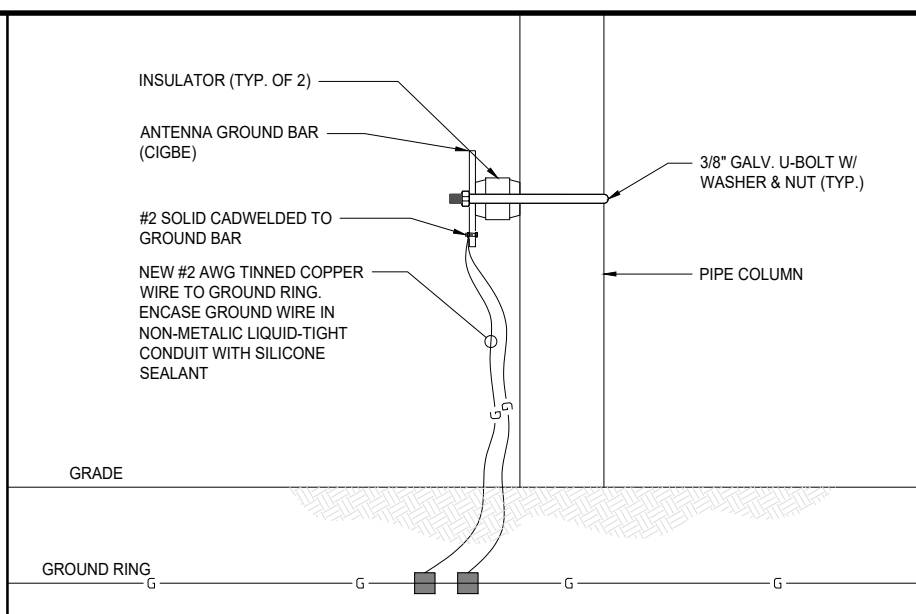
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**G-1.1**



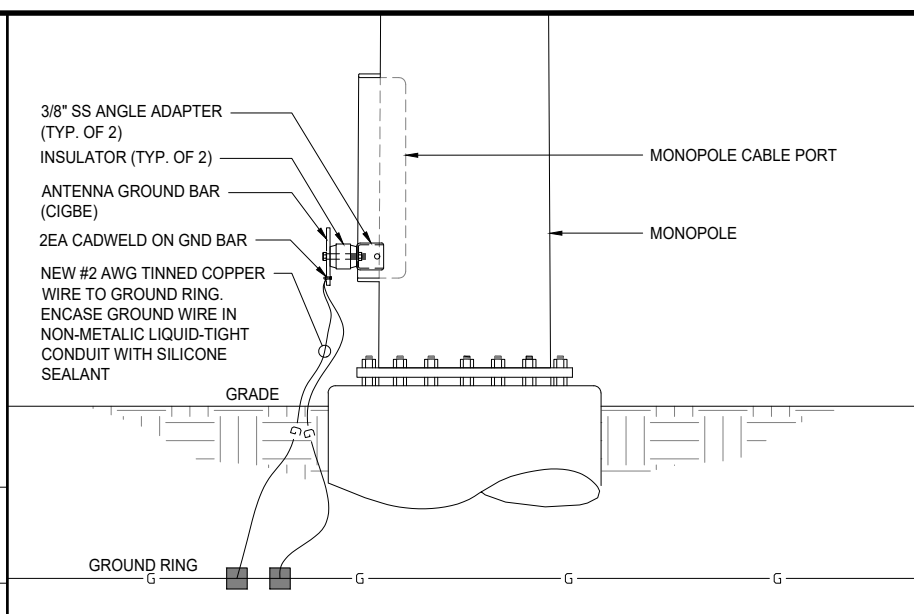
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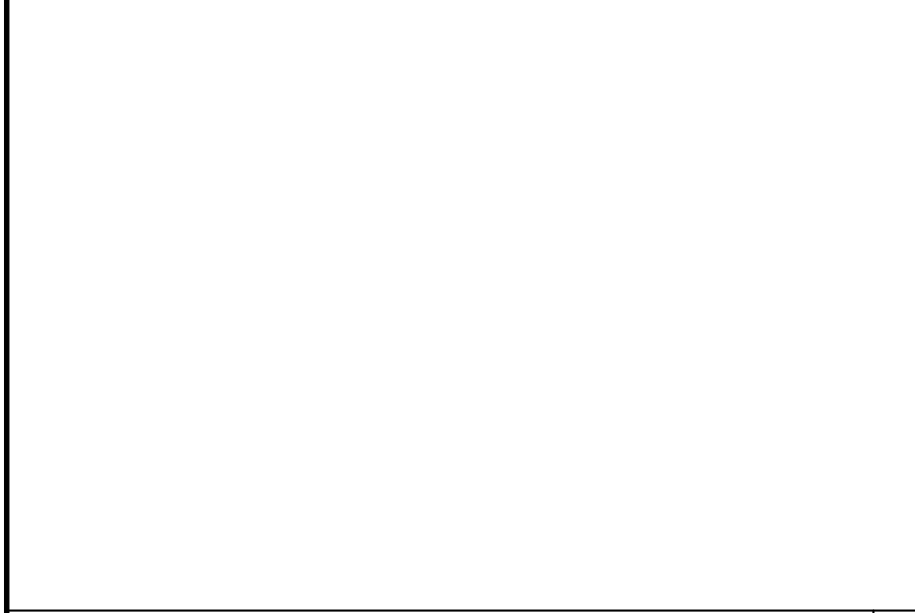
GROUND BAR DETAIL NTS 9



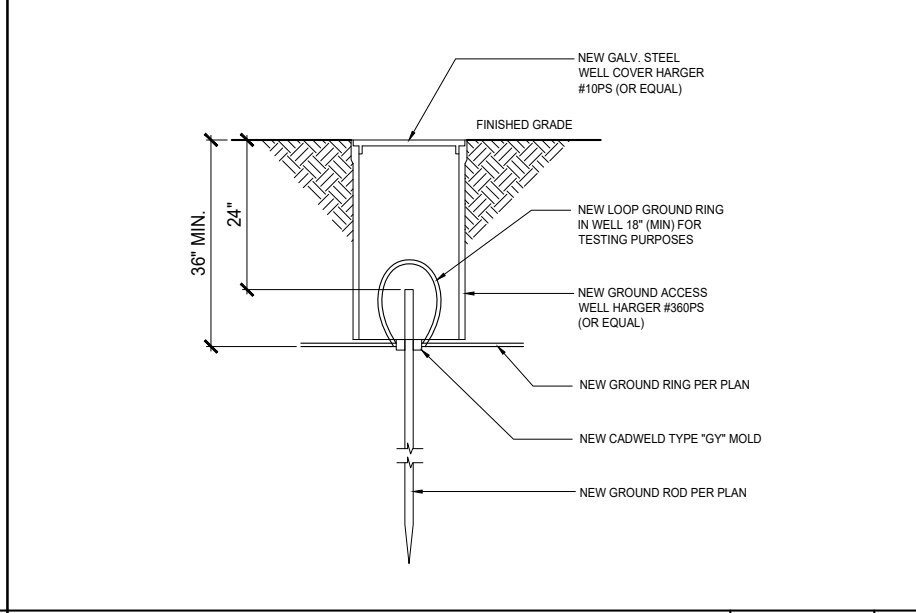
EQUIPMENT GROUND BAR NTS 6



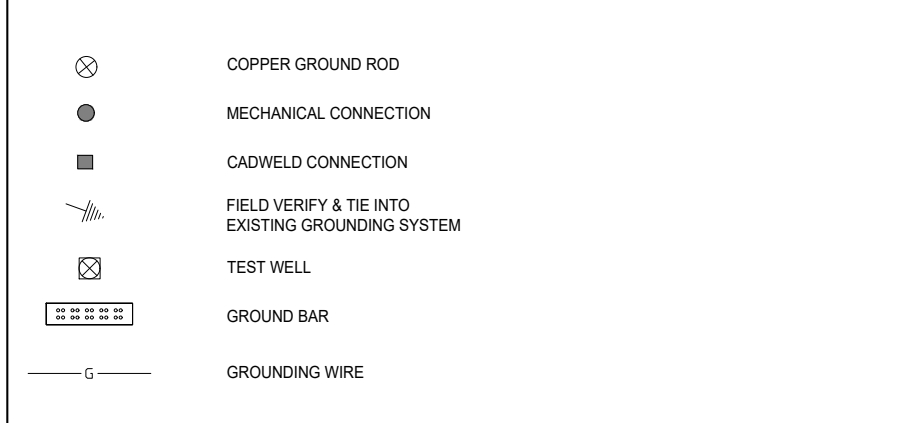
MONOPOLE GROUND DETAIL NTS 3



NOT USED 8 TEST WELL NTS 5



NOT USED 7 GROUND ROD NTS 4



GROUNDING LEGEND SCALE N.T.S. 2

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS, FOLLOW ANTENNA AND BTS MANUFACTURES PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELDS AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
- ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
- GROUND TEST MUST PASS LESS THAN 5 OHMS AND SUBMIT IN CLOSEOUT PACKAGE.
- CONTRACTOR TO ABIDE BY ALL AT&T SAFETY STANDARDS DURING SITE CONSTRUCTION.
- CONTRACTOR SHALL REFER TO AT&T STANDARDS FOR GROUNDING CONNECTIONS & INSTALLATION METHODS.
- NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- GROUNDING ROD NOTES (WHERE APPLICABLE)
- ELECTRICAL CONTRACTOR SHALL PERFORM AND PROVIDE THE GROUND RESISTANCE TESTING WITH AN APPROVED EQUIPMENT DEVICE THAT HAS A CURRENT CALIBRATION. TEST RESULTS SHALL NOT EXCEED 5 OHMS.

NOT USED 4 GENERAL GROUNDING NOTES SCALE N.T.S. 1



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17816 HIGHWAY 4  
JEMEZ SPRINGS, NM 87025

SHEET TITLE  
**GROUNDING NOTES & DETAILS**

SHEET NUMBER  
**G-2.0**