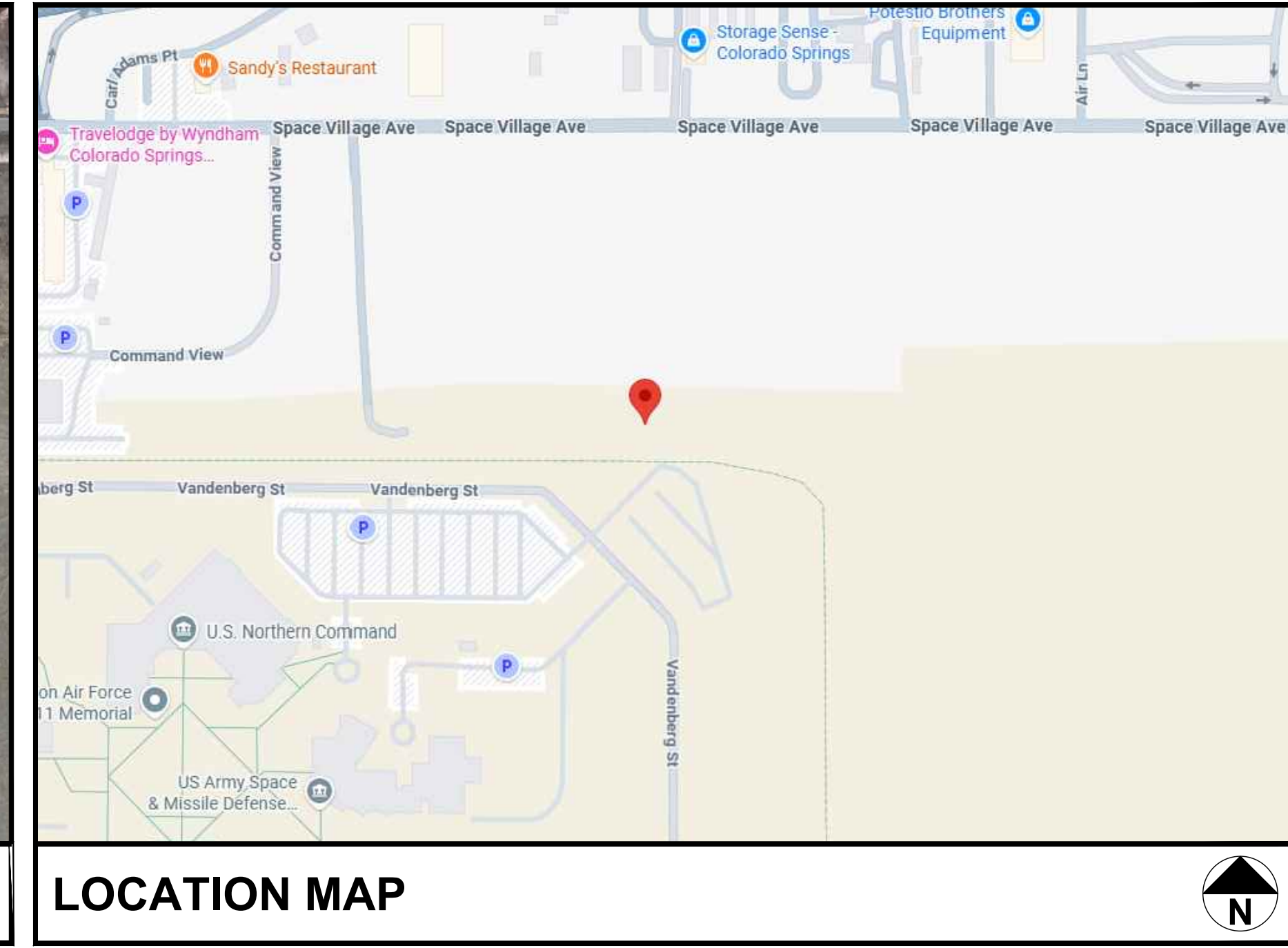


**7233 SPACE VILLAGE AVE
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)**



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:

EASEMENTS
GC IS TO FOLLOW ALL ACCESS AND UTILITY EASEMENTS AS DEFINED BY APPLICANT LEASE AGREEMENT

<u>CODE TYPE</u>	<u>CODE</u>	
BUILDING	2024 IBC, 2024 IRC, 2021 IECC, 2017 COLORADO ACCESSIBILITY, 2021 COLORADO ENERGY CODE, 2017 ICC A117.1, 2024 IFC	
MECHANICAL	2021 IMC	
ELECTRICAL	2023 NEC, 2021 ISEP, CODE OF ORDINANCES	
STRUCTURAL	EIA/TIA-H-222	

THE SCOPE OF WORK INCLUDES INSTALLATION OF A PROPOSED 98'-5"x196'-10" FENCED GRAVEL COMPOUND WITH SMALL SATELLITE EARTH STATION ANTENNAS (40 ANTENNAS AND 1 HEAD END EQUIPMENT RACK) IN EXISTING GRASS AREA. POWER TO BE PROVIDED FROM EXISTING UTILITY POLE COMING FROM SPACE VILLAGE AVE. FIBER TO BE PROVIDED FROM NEW FIBER DEMARK WITHIN RIGHT OF WAY.

PROJECT SCOPE OF WORK

POWER COMPANY: COLORADO SPRINGS UTILITIES

FIBER COMPANY: ZAYO

UTILITY INFORMATION

SHEET.	DESCRIPTION.	REV.
T-1	TITLE SHEET & GENERAL NOTES	4
-	SURVEY BOUNDARY	-
-	SURVEY DETAIL	-

C-1.1	EXISTING SITE PLAN	4
C-1.2	PROPOSED SITE PLAN	4
C-2.1	COMPOUND LAYOUT	4
C-3.1	PROPOSED COMPOUND ELEVATION	4

C-4.1	EROSION CONTROL PLAN	4
C-4.2	SILT FENCE DETAILS	4
C-5.1	STRUCTURAL DETAILS	4

C-5.3	STRUCTURAL DETAILS III	4
E-1.1	ELECTRICAL DETAILS I	4
E-1.2	UTILITY ROUTING	4

APPROVED
Plan Review
09/20/2026 4:29:51 PM
dsd dean2

**EPC Planning & Community
Development Department**

SHEET INDEX

17. ALL TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A QUALIFIED APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

18. THE PROJECT DEPICTED IN THIS PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C § 1452(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).

1. THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, AISC, 15TH EDITION.
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - A. STRUCTURAL STEEL, ASTM DESIGNATION A36.
 - B. ALL BOLTS, ASTM A325 TYPE I GALVANIZED HIGH STRENGTH BOLTS.
 - C. ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
 - D. ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, AISC, 15TH EDITION.
4. HOLES SHALL NOT BE FLAME CUT THROUGH STEEL UNLESS APPROVED BY THE ENGINEER.
5. HOT-DIP GALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE.
6. REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTE MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTE; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
7. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
8. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT, IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
10. ALL ASSEMBLY AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN SECTION 8.1 OF THE AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", DATED JUNE 30, 2004.
11. FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.
12. DO NOT OVER TORQUE ASSEMBLY BOLTS. GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS MAY ACT AS A LUBRICANT, THUS OVER TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK AND SNAP OFF.
13. PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.
14. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
15. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-2020 STRUCTURAL WELDING CODE - STEEL.

GENERAL NOTES

4	08-05-26	CONSTRUCTION
3	06-08-26	CONSTRUCTION
2	06-03-26	CONSTRUCTION
1	05-15-26	CONSTRUCTION
0	04-01-26	CONSTRUCTION
B	03-30-26	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY: OJK		CHECKED BY: JFR

SITE NAME:
COLORADO SPRINGS,
CO - 100KM

7233 SPACE VILLAGE AVE.,
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

TITLE: TITLE SHEET & GENERAL NOTES	NUMBER: T-1	REVISION: 4	08-05-26
	SEAL:		

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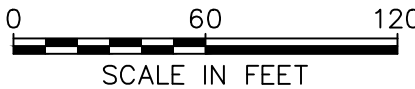
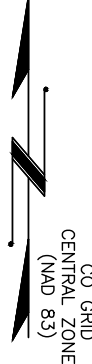
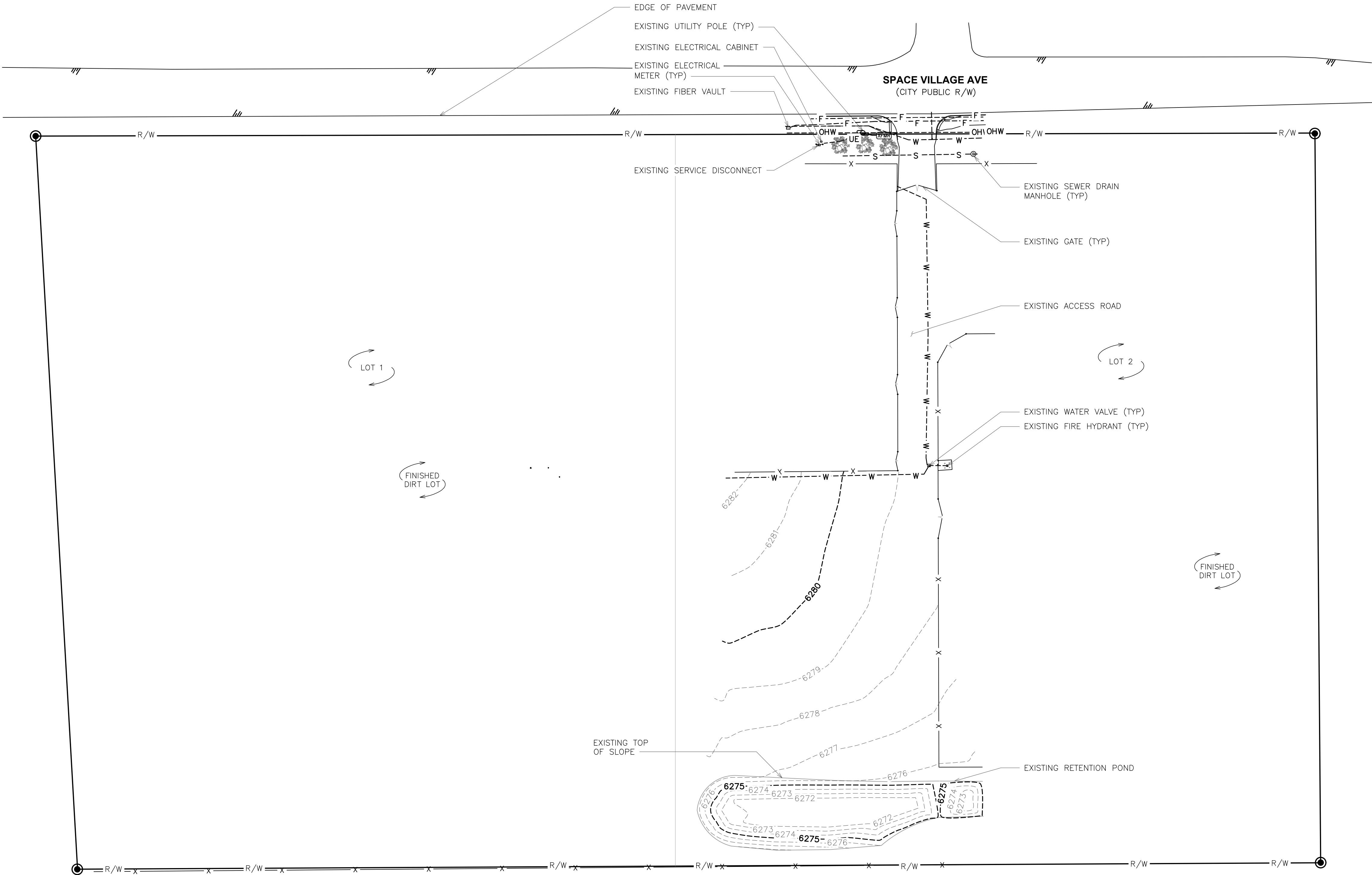
NOTES:

1. THE BASIS OF THE MERIDIANS AND THE COORDINATES FOR THIS PLAT IS THE COLORADO STATE PLAN COORDINATE SYSTEM, NORTH AMERICAN DATUM (NAD 83/2011), BASED ON DIFFERENTIAL GPS OBSERVATIONS PERFORMED ON 04/02/2026 BY RLF CONSULTING.
2. VERTICAL INFORMATION SHOWN, BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) IN FEET
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4. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
5. CONTRACTOR TO ENSURE POSITIVE DRAINAGE ACROSS COMPOUND.
6. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 5% SLOPE ACROSS THE COMPOUND.
7. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 18% SLOPE ACROSS THE ACCESS DRIVE.
8. STORMWATER RUNOFF FROM PROPOSED ANTENNAS WILL NOT ADVERSELY IMPACT DOWNSTREAM/NEIGHBORING PARCELS.

LEGEND	
	PROPOSED EASEMENT
	EXIST. PROPERTY LINE
	ADJ. PROPERTY LINE
	EXIST. UTILITY POLE
	EXIST. TELCO PEDESTAL
	EXIST. FIRE HYDRANT
	EXIST. TRANSFORMER
	EXIST. SEWER DRAIN MAN HOLE
	EXIST. WATER VALVE
	PROPERTY CORNER
	LEASE/EASE. CORNER
	EXIST. CONTOUR LINE
	EDGE OF PAVEMENT
	OVERHEAD WIRE
	RIGHT-OF-WAY
	CHAIN LINK FENCE
	EXISTING TREE LINE
	EXISTING WATER LINE
	EXISTING FIBER LINE
	EXISTING STORM DRAIN LINE
	EXISTING UNDERGROUND ELECTRICAL LINE
	EXISTING UTILITY EASEMENT

EXISTING SITE PLAN

SCALE: 1" = 60'



PLANS PREPARED BY:

CONSTRUCTION	08-05-26	4
CONSTRUCTION	06-09-26	3
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ISSUED FOR:	DATE	REV
CHECKED BY: JFJ	DRAWN BY: OJK	

PROJECT INFORMATION:

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**COLORADO SPRINGS,
CO - 100KM**

7233 SPACE VILLAGE AVE,
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

SEAL:

08-05-26

TEP #353465 490368

SHEET TITLE:

EXISTING SITE PLAN

SHEET NUMBER:

C-1.1

REVISION:

4

TEP #353465 490368

326 TRYON ROAD
RALEIGH, NC 27603-3330
OFFICE (919) 861-6351
FAX (919) 861-6350

TEP

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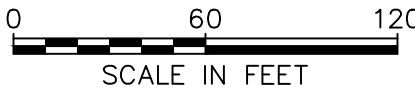
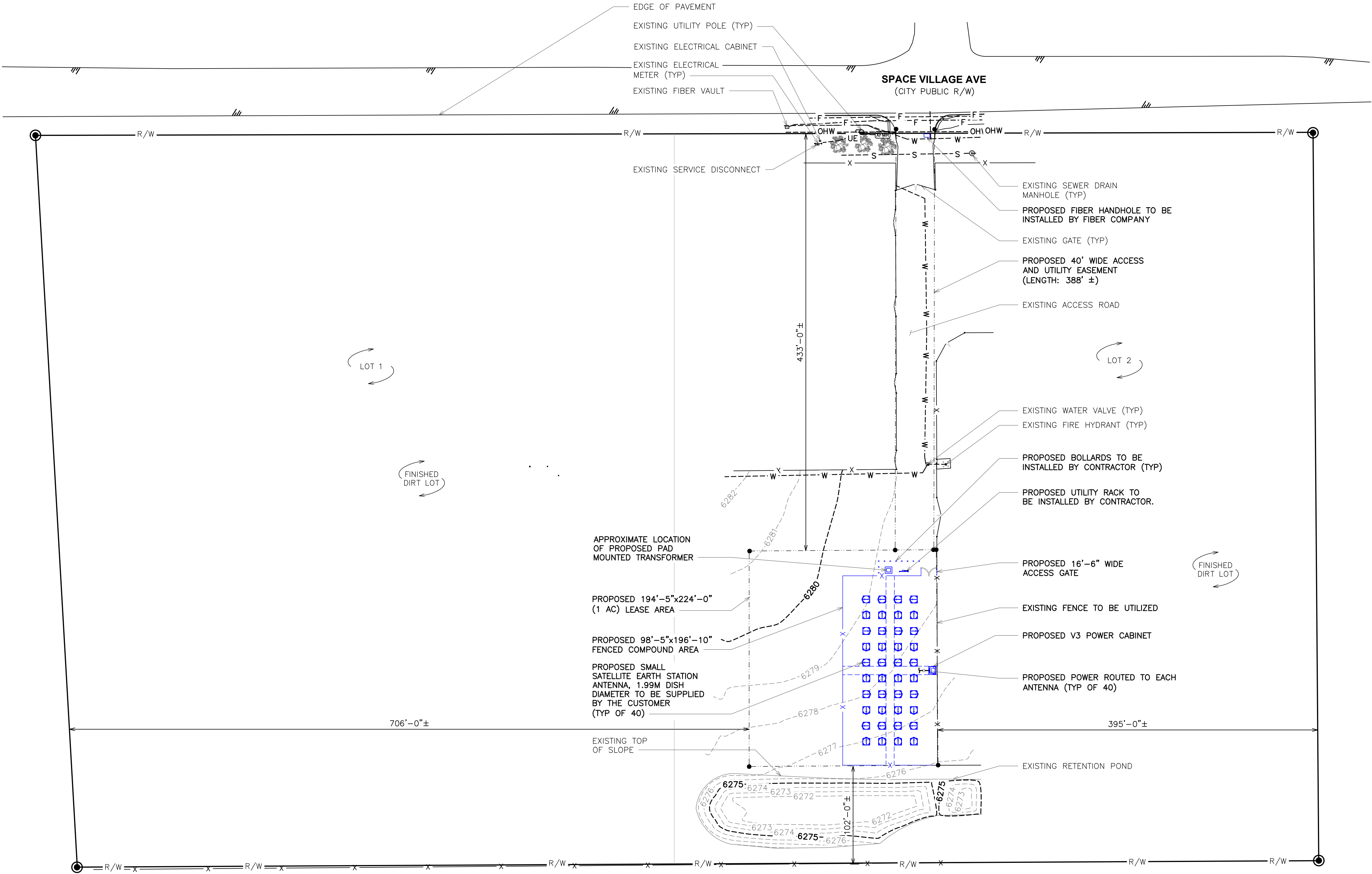
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SCALE: 1" = 60'



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7233 SPACE VILLAGE AVE.
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

SEAL:



08-05-26

PROPOSED SITE PLAN

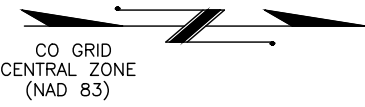
REVISION: 4

SHEET NUMBER: **C-1.2**

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326 TRYON ROAD
RALEIGH, NC 27603-3330
OFFICE (919) 861-6331
FAX (919) 861-6350



PLANS PREPARED BY:

CONSTRUCTION	08-05-26	4
CONSTRUCTION	06-09-26	3
CONSTRUCTION	06-03-26	2
CONSTRUCTION	05-15-26	1
CONSTRUCTION	04-01-26	0
PRELIMINARY	03-30-26	B
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CHECKED BY:	DATE	REV
JFJ	08-05-26	4

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COLORADO SPRINGS,
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7233 SPACE VILLAGE AVE.
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

SEAL:



08-05-26

SHEET TITLE:

PROPOSED
COMPOUND LAYOUT

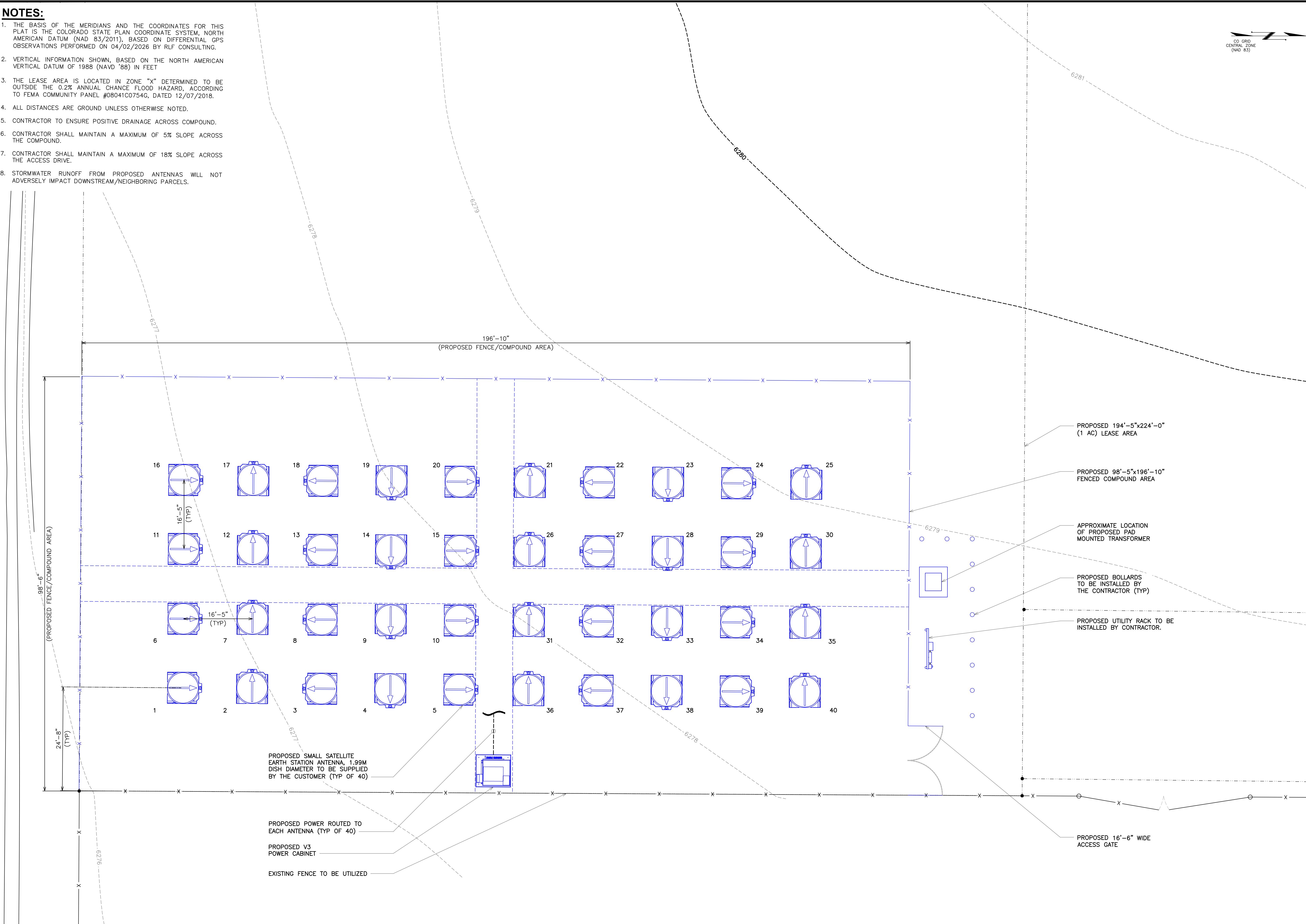
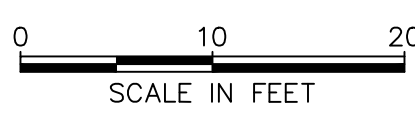
SHEET NUMBER:
C-2.1

REVISION:
4

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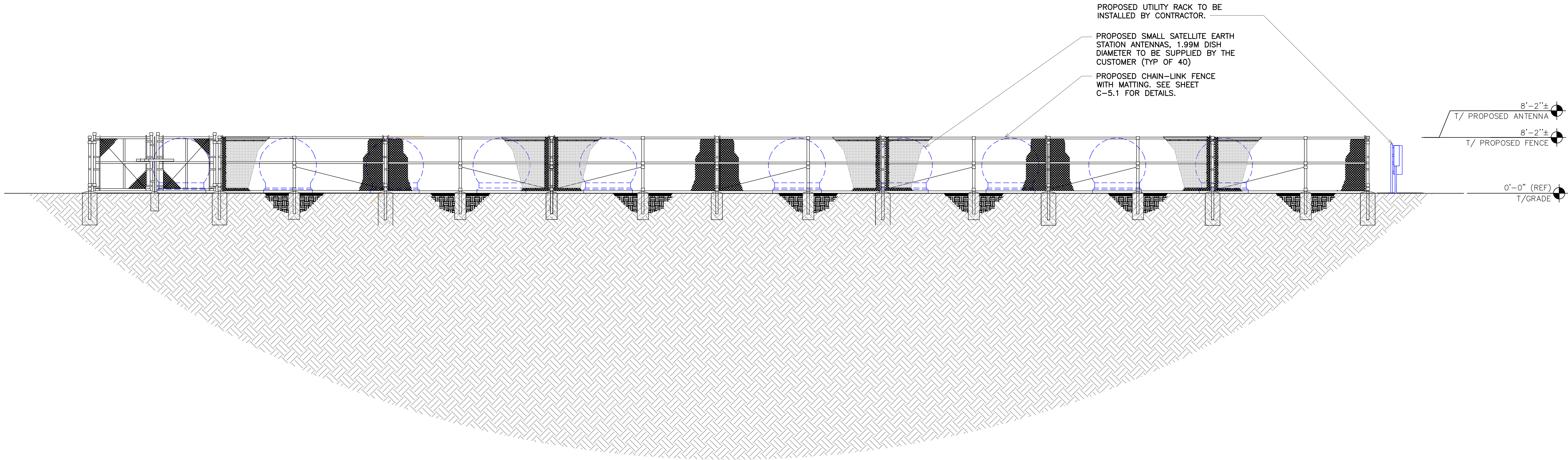
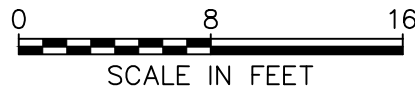
PROPOSED COMPOUND LAYOUT

SCALE: 1" = 10'



PROPOSED COMPOUND ELEVATION

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



SHEET TITLE:

COMPOUND
ELEVATION

SHEET NUMBER:

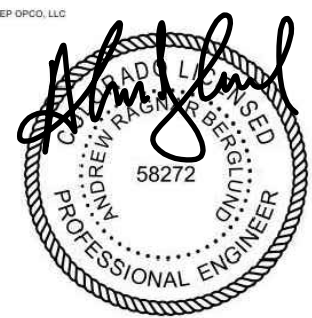
C-3.1

REVISION:

4

TEP # 353465.490368

SEAL:



08-05-26

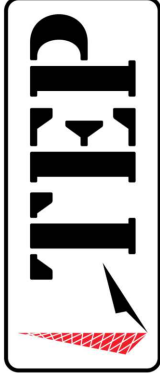
PROJECT INFORMATION:

SITE NAME:
COLORADO SPRINGS,
CO - 100KM

7233 SPACE VILLAGE AVE,
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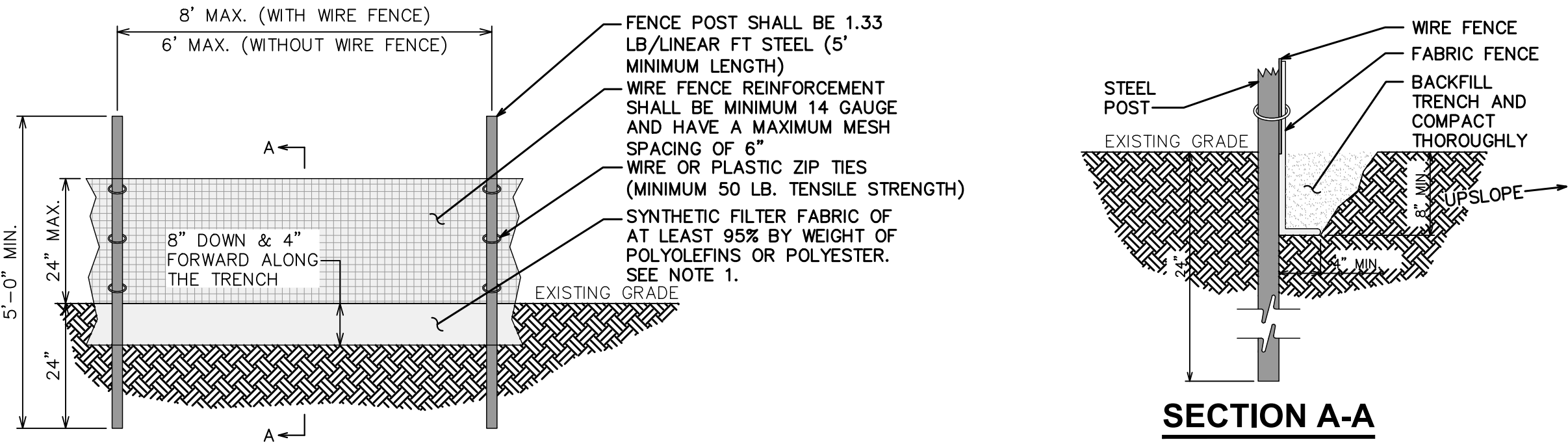


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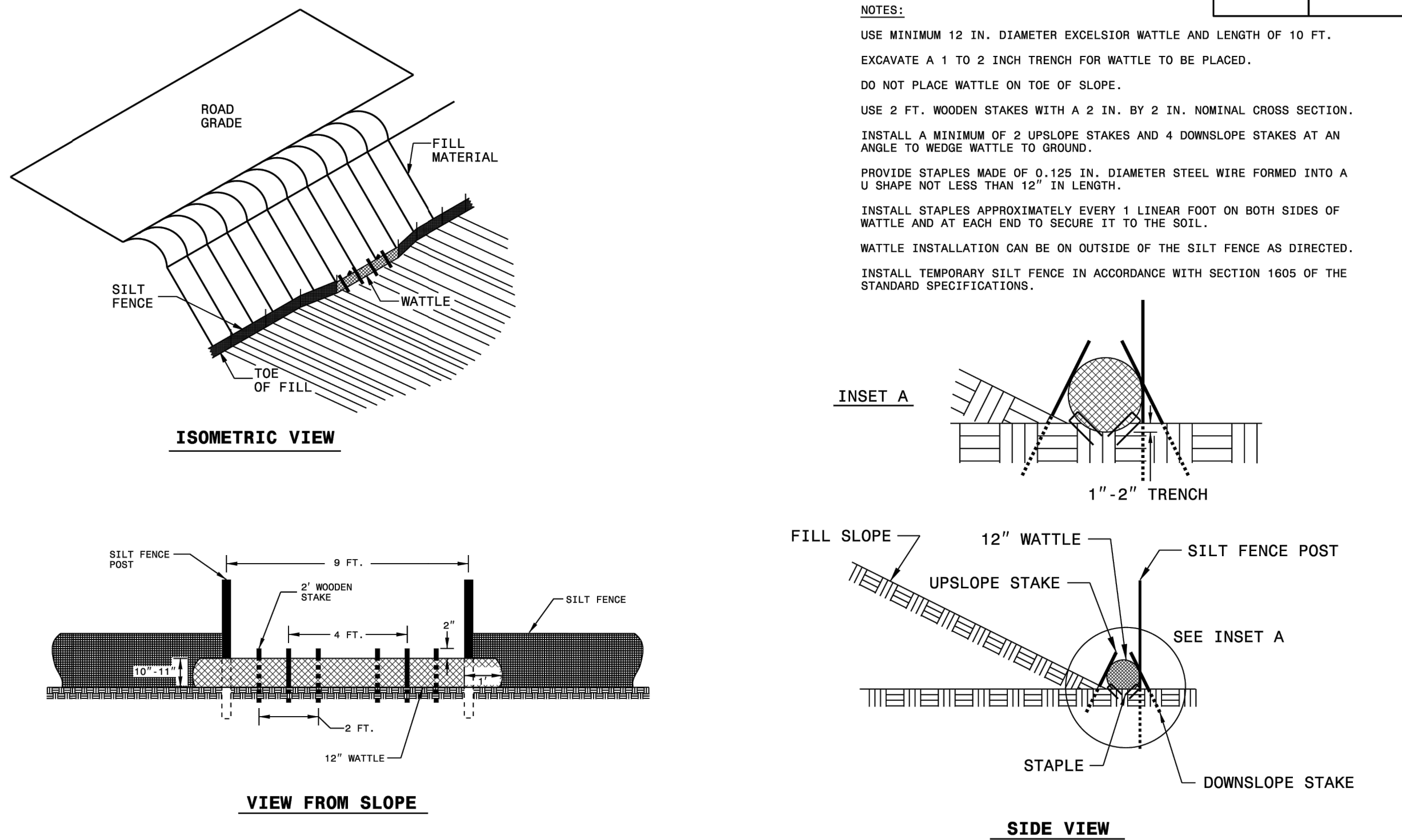
1. FILTER FABRIC SHALL CONFORM TO THE REQUIREMENTS LISTED IN ASTM D 6461.
2. ENDS OF INDIVIDUAL FILTER FABRIC SHALL BE SECURELY FASTENED AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST.
3. PLACE 10 INCHES OF FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
4. INSPECT SEDIMENT FENCE(S) AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL.
5. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE.
6. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE AND PROPERLY STABILIZE THE SITE.



SILT FENCE DETAIL

SCALE: N.T.S.

SILT FENCE WATTLE BREAK DETAIL



SILT FENCE WATTLE BREAK DETAIL

SCALE: N.T.S.

PLANS PREPARED BY:

08-05-26	CONSTRUCTION
06-08-26	CONSTRUCTION
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PROJECT INFORMATION:

SITE NAME:
COLORADO SPRINGS,
CO - 100KM

7233 SPACE VILLAGE AVE.
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

SEAL:

08-05-26

SHEET TITLE:

SILT FENCE
DETAILS

SHEET NUMBER:

C-4.2

REVISION:

4

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3. CONTRACTOR SHALL MAINTAIN A MAXIMUM OF 18% SLOPE ACROSS THE ACCESS DRIVE.
4. FIBER AND POWER NOT DOWN FOR CLARITY.
5. EQUIPMENT NOT SHOWN FOR CLARITY.
6. STORMWATER RUNOFF FROM PROPOSED ANTENNAS WILL NOT ADVERSELY IMPACT DOWNSTREAM/NEIGHBORING PARCELS.
7. THE PROPOSED CONCRETE FOUNDATIONS WILL NOT AFFECT THE FUNCTIONALITY OF THE EXISTING POND. SEE TABLES BELOW FOR DETAILS

EXISTING WEIGHTED RUNOFF COEFFICIENT

BASIN	COMM.	RESIDENTIAL	IND. LIGHT	GRAVEL	PAVED	LAWNS	TOTAL	I	C ₃	C ₁₀	C ₁₀₀
B1	0.00	0.00	0.0	8.12	0.08	1.25	9.45	70	0.52	0.57	0.66

PROPOSED WEIGHTED RUNOFF COEFFICIENT

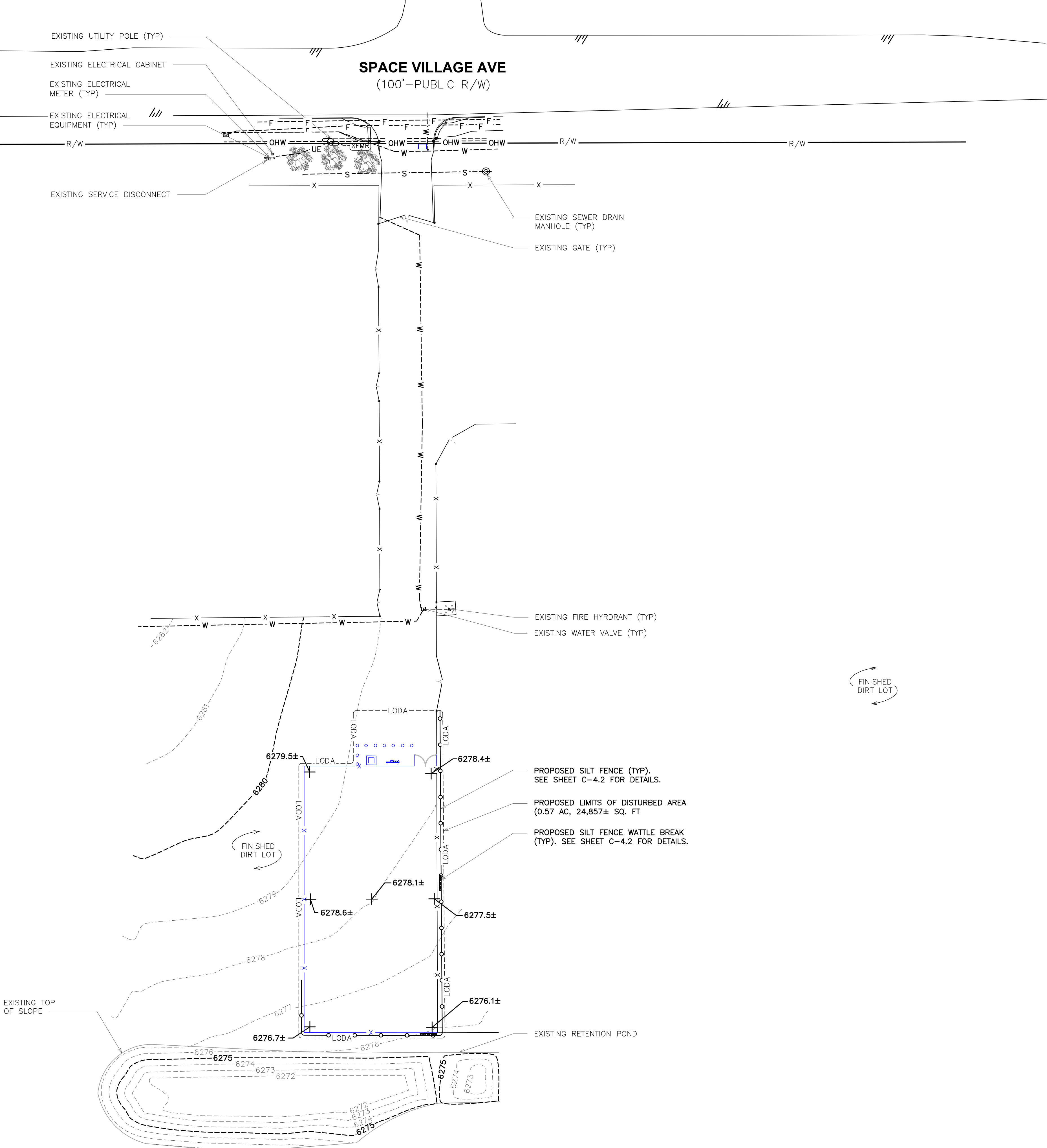
BASIN	COMM.	RESIDENTIAL	IND. LIGHT	GRAVEL	PAVED	LAWNS	TOTAL	I	C ₃	C ₁₀	C ₁₀₀
B1	0.00	0.00	0.0	8.06	0.14	1.25	9.45	70	0.53	0.57	0.66

EXISTING SITE STORMWATER PEAK RUN OFF VALUES

STORM FREQUENCY	AREA	RUNOFF COEFFICIENT	TC	CA	I	Q
5-YEAR	9.45 AC	0.52	15	4.96	3.4	16.86
10-YEAR	9.45 AC	0.57	15	5.37	4.0	21.49
100-YEAR	9.45 AC	0.66	15	6.19	5.8	35.93

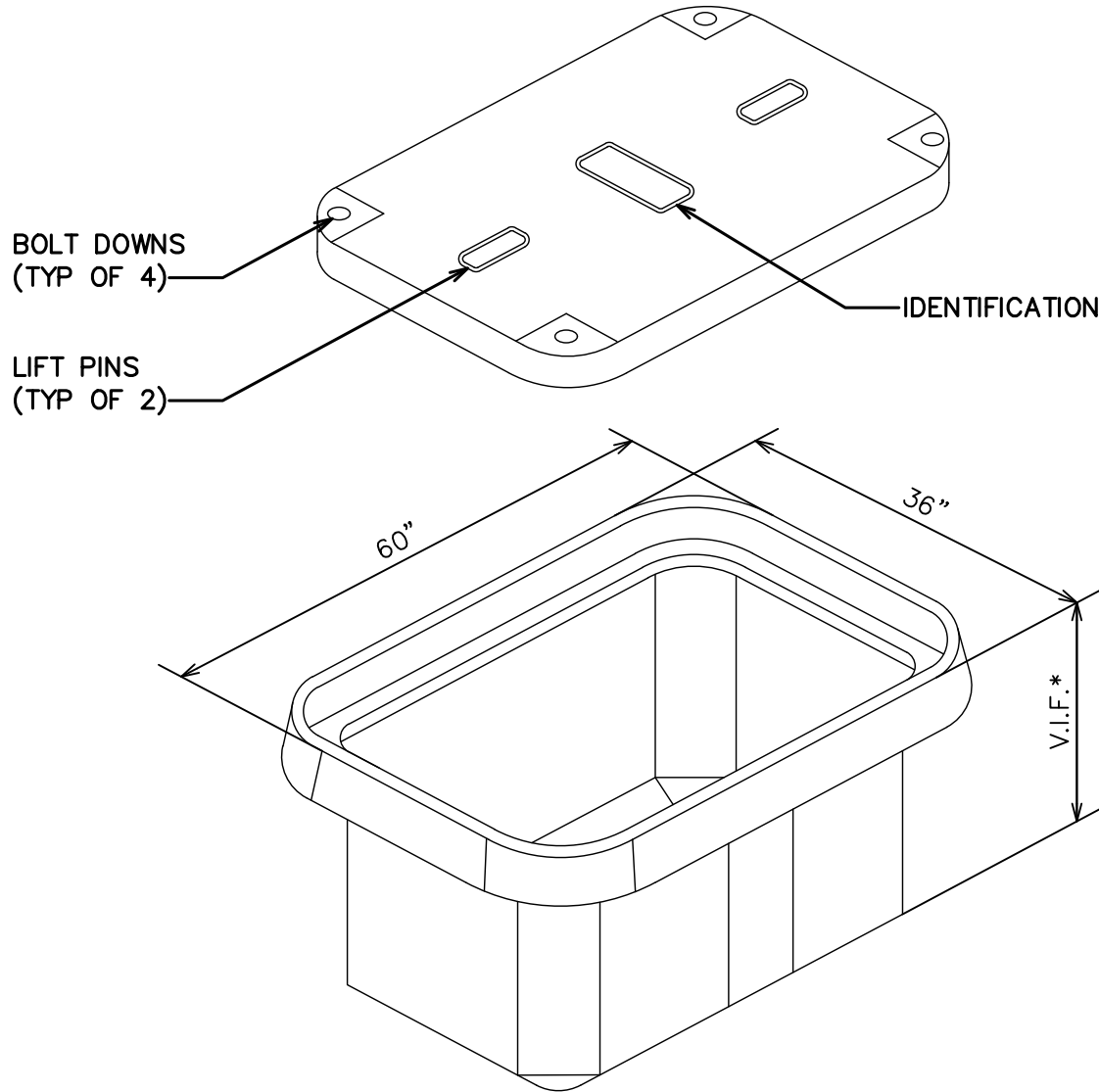
PROPOSED SITE STORMWATER PEAK RUN OFF VALUES

STORM FREQUENCY	AREA	RUNOFF COEFFICIENT	TC	CA	I	Q
5-YEAR	9.45 AC	0.53	15	5.00	3.4	17.02
10-YEAR	9.45 AC	0.57	15	5.37	4.0	21.49
100-YEAR	9.45 AC	0.66	15	6.19	5.8	35.93



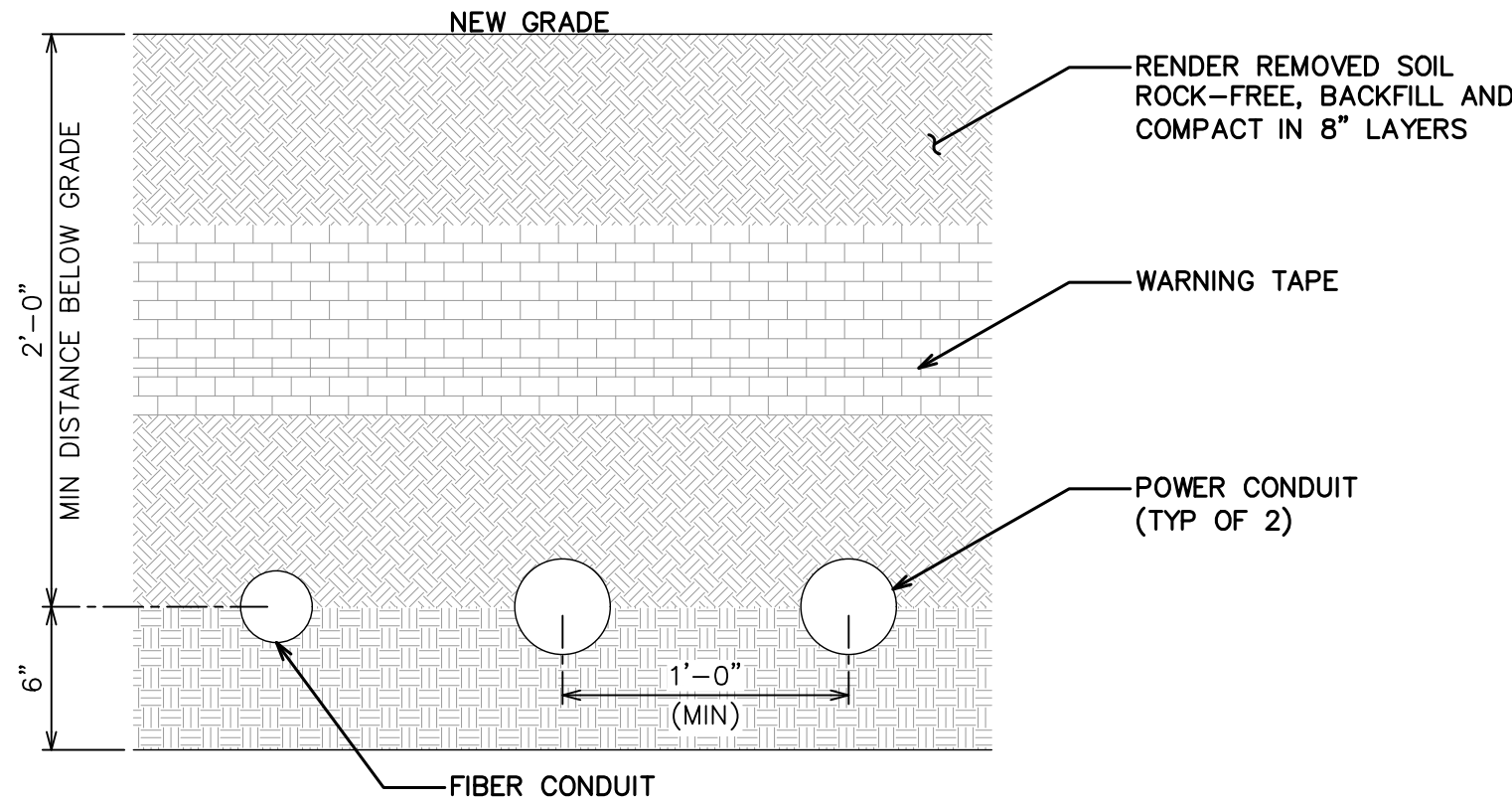
NOTES:

1. ALL STUB-UP CONDUITS INSIDE PULL BOXES WILL BE 6" FROM TOP OF BOX AND HAVE PULL STRING AND CAPS.
2. CONTRACTOR TO DETERMINE SIZE OF PULL BOX BASED ON FIELD CONDITIONS, NUMBER OF CONDUITS REQUIRED & NEC REQUIREMENTS.



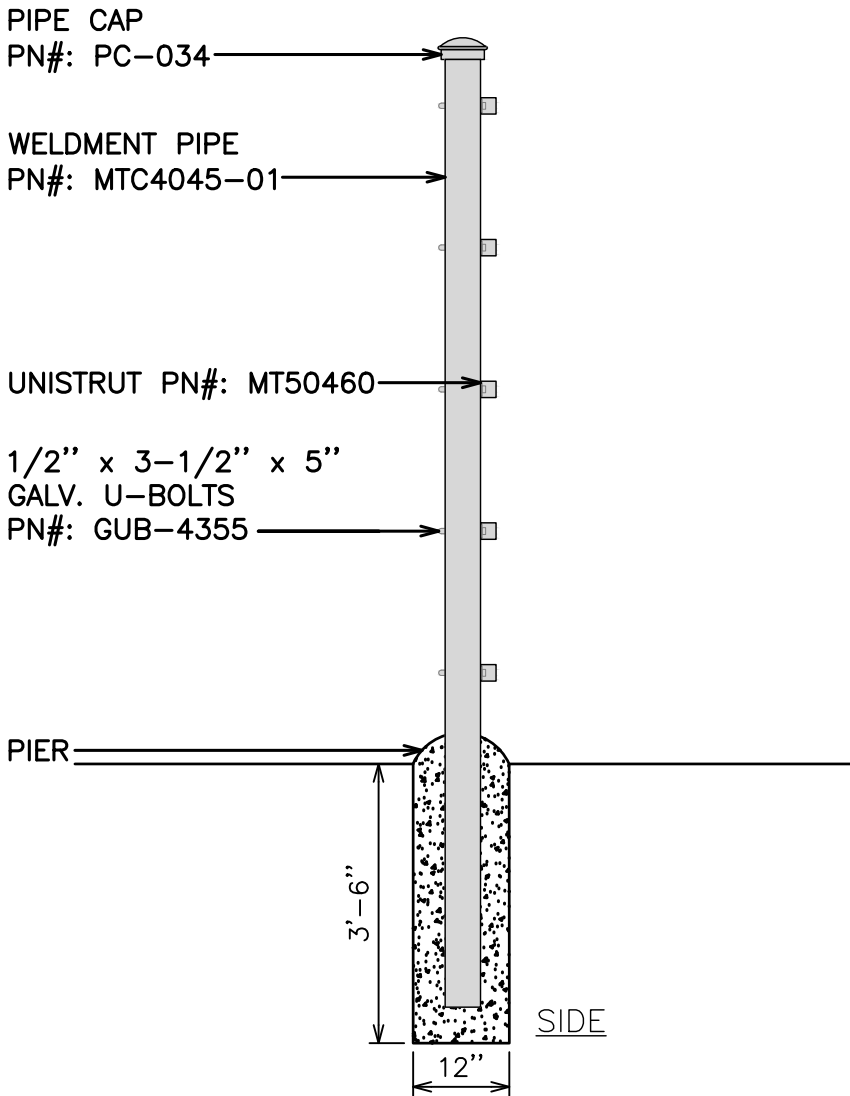
HAND HOLE/PULL BOX DETAIL

SCALE: N.T.S



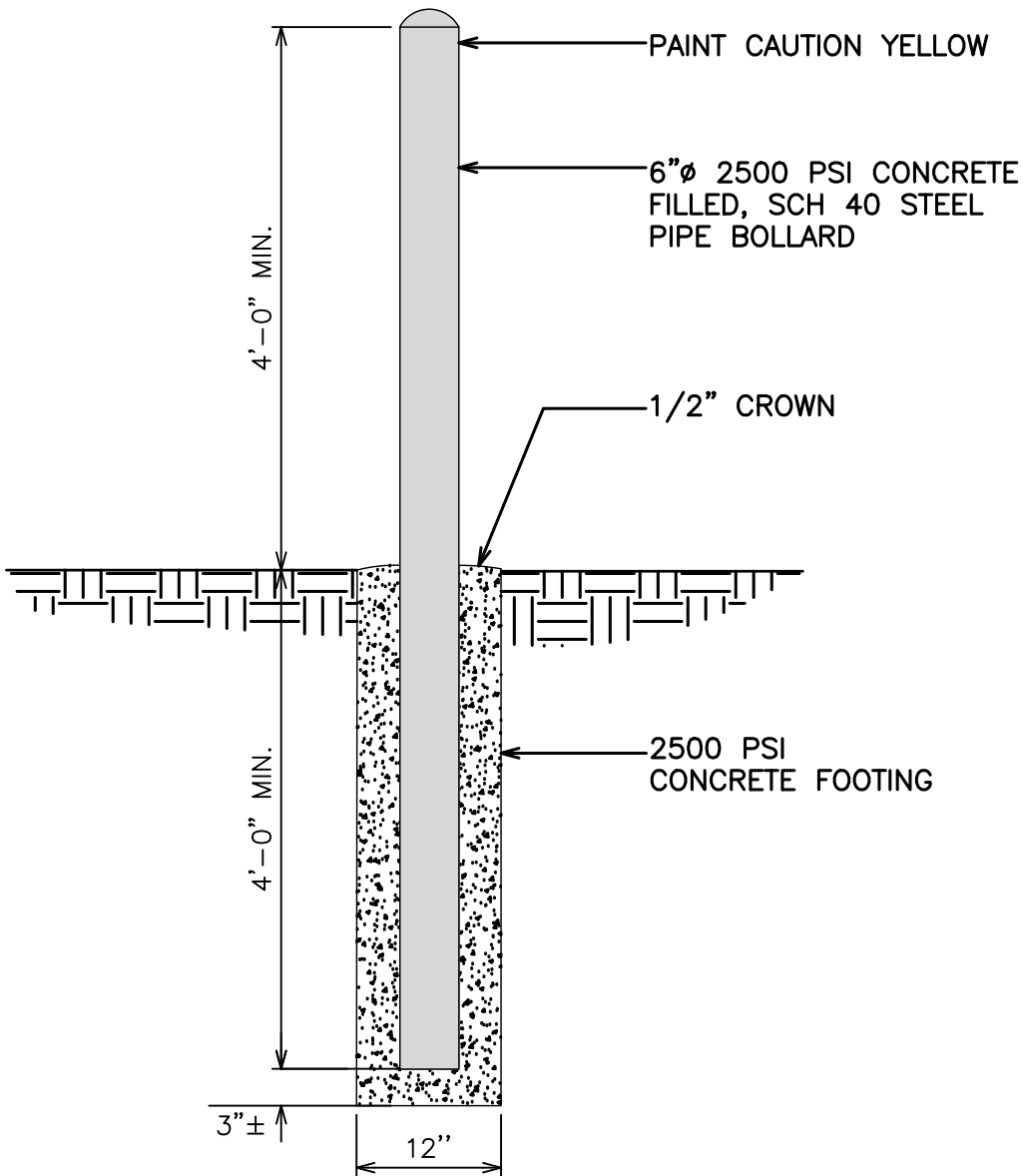
TRENCH DETAIL

SCALE: N.T.S



UNISTRUT CONNECTION DETAIL

SCALE: N.T.S

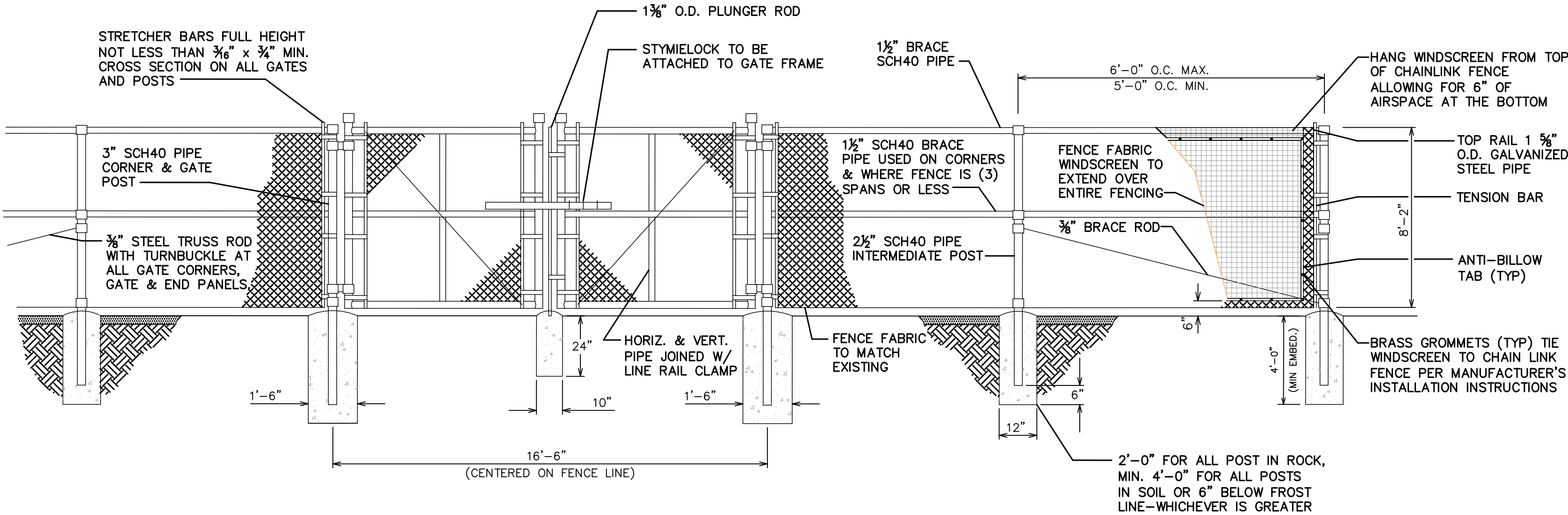


STANDARD BOLLARD DETAIL

SCALE: N.T.S

NOTES:

1. FENCE RATED TO 130 MPH WIND SPEED. REDUCE SPACING BY 0.3 M PER 10 MPH TO INCREASE RATING CMU FENCE REQUIRED ABOVE 150 MPH RATING.
2. POST DESIGN BASED ON 1,500 PSF SOIL BEARING CAPACITY. OPEN HOLE REQUIRED.
3. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED TO A MINIMUM OF 95% DENSITY USING THE MODIFIED PROCTOR METHOD.
4. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI-318-14.



FENCE AND ACCESS GATE

SCALE: N.T.S.

NOTES:

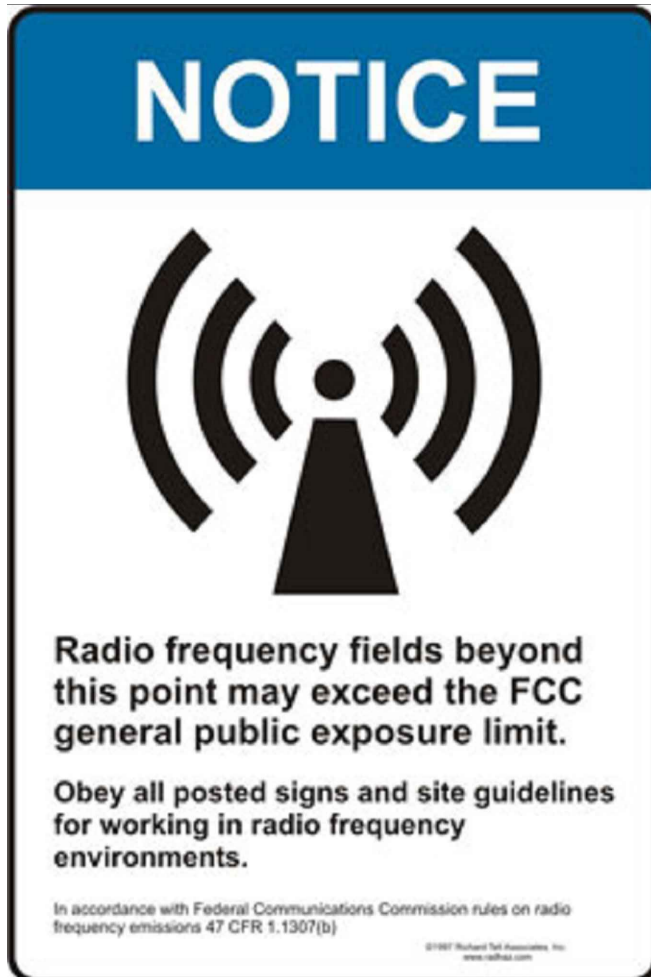
1. SIGNS SHALL BE MADE OF ALUMINUM WITH 1/4" HOLES 1/2" FROM EACH CORNER TO HANG SIGNS ON FENCE.
2. SIGNS SHALL BE INSTALLED ON GATE
3. SIGNS SHALL BE INSTALLED WITH CENTER AT 5' ABOVE FINISHED GRADE.



SIZE = 12"x18" ALUMINUM SIGN

THICKNESS = 0.05" (1/16") OR CLOSEST STANDARD THICKNESS

QUANTITY = 1



SIZE = 12"x18" ALUMINUM SIGN

THICKNESS = 0.05" (1/16") OR CLOSEST STANDARD THICKNESS

QUANTITY = 1



SIZE = 12"x16" ALUMINUM SIGN

THICKNESS = 0.05" (1/16") OR CLOSEST STANDARD THICKNESS

QUANTITY = 1

PLANS PREPARED BY:

4	08-05-26	CONSTRUCTION
3	06-09-26	CONSTRUCTION
2	06-03-26	CONSTRUCTION
1	05-15-26	CONSTRUCTION
0	04-01-26	CONSTRUCTION
B	03-30-26	PRELIMINARY
REV	DATE	ISSUED FOR:
		CHECKED BY: JFJ

PROJECT INFORMATION:

SITE NAME:
COLORADO SPRINGS,
CO - 100KM

7233 SPACE VILLAGE AVE.
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

SEAL:



08-05-26

SHEET TITLE:

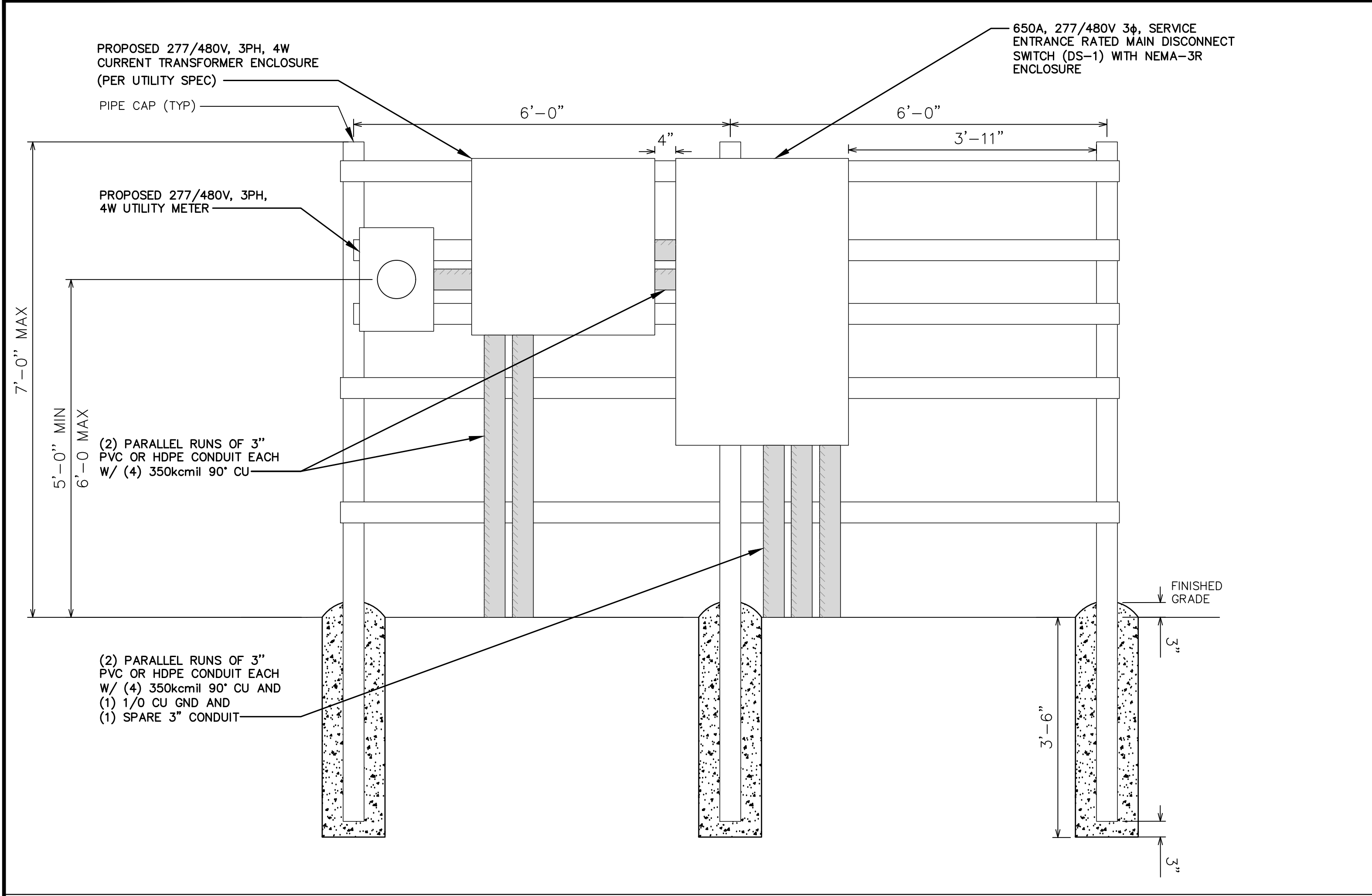
STRUCTURAL
DETAILS I

SHEET NUMBER:

C-5.1

REVISION:

4

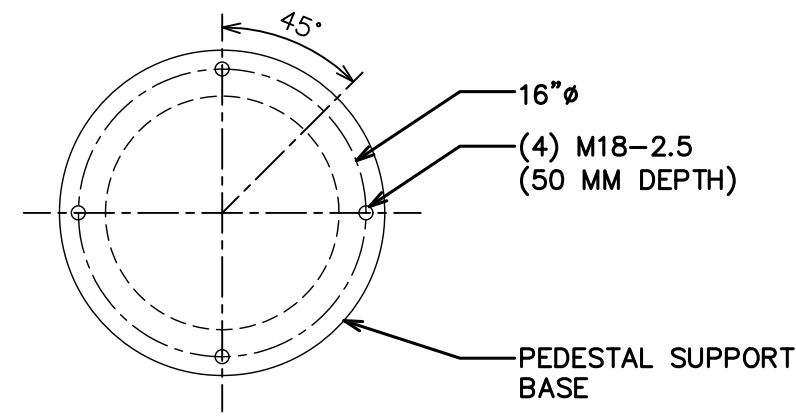


UTILITY RACK MOUNTING DETAIL

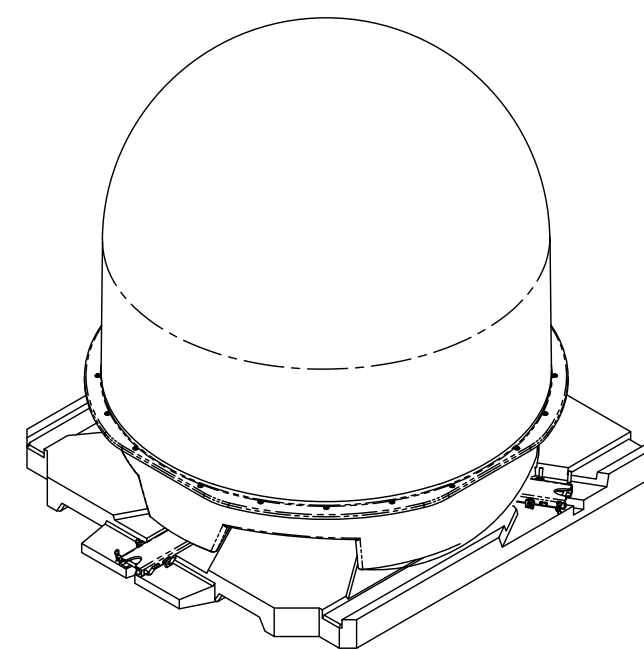
SCALE: N.T.S

NOTES:

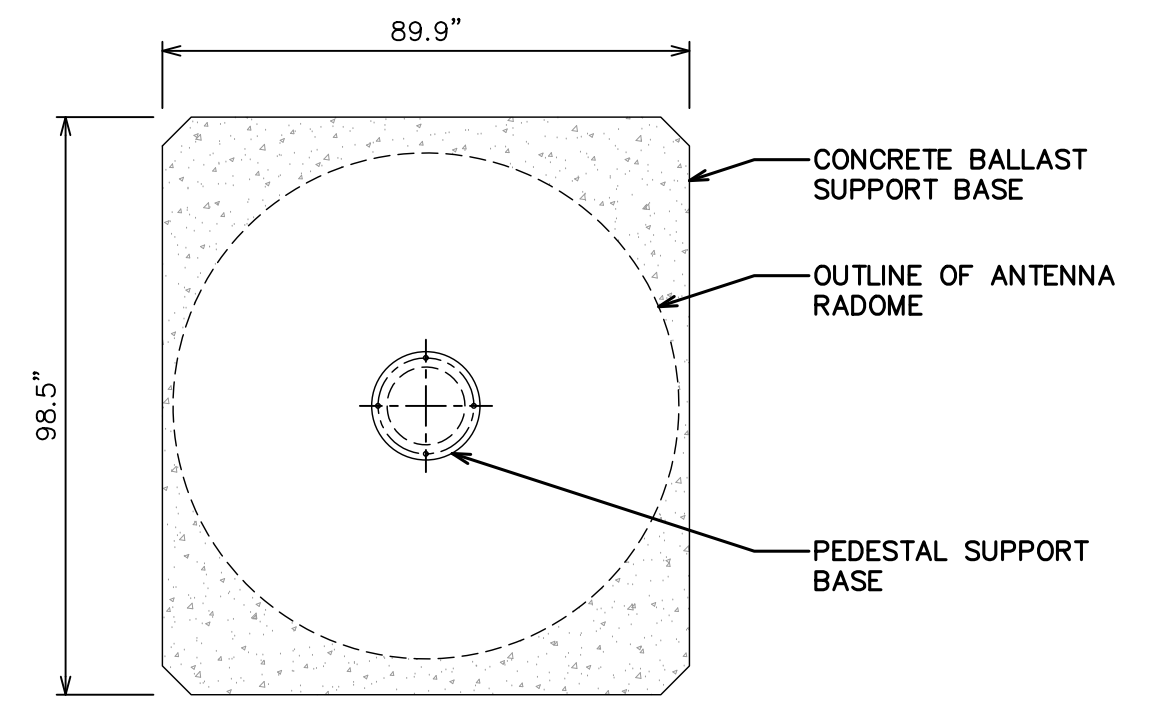
- UNIT MASS:
ANTENNA: 2180 LBS
CONCRETE BASE: 2990 LBS
COMPLETE ASSEMBLY: 5170 LBS
BASE LOADING: 152 PSF
- POWER REQUIREMENT: 340V TO 530V THREE PHASE AC 43HZ TO 67 HZ MAXIMUM CURRENT DRAW: 18A
- POWER CABLE:
LENGTH: 40M
CONNECTION: NEMA 16-30 LOCKING PLUG
- FIBER CABLE:
LENGTH: 40M
CONNECTION: DUPLEX LC-LC AND MP016-MPO-16 CABLE: SINGLE 7MM OD, UV RESISTANT PE JACKET CONTAINING BOTH (1) 2S OS2 SINGLE MODE FIBER AND (2) 16X OM4 MULTIMODE FIBER.
- MAXIMUM WIND RATING: 170 MPH
- ANTENNAS ARE 2 METERS OR LESS IN DIAMETER.



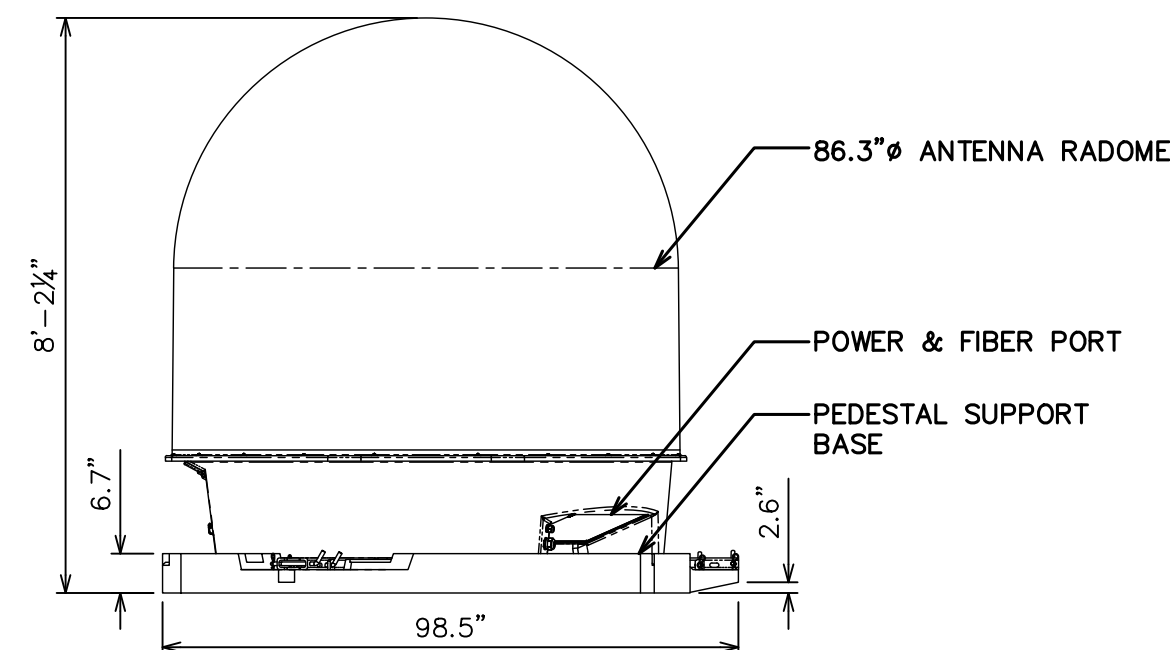
BOLT PATTERN



ISOMETRIC VIEW



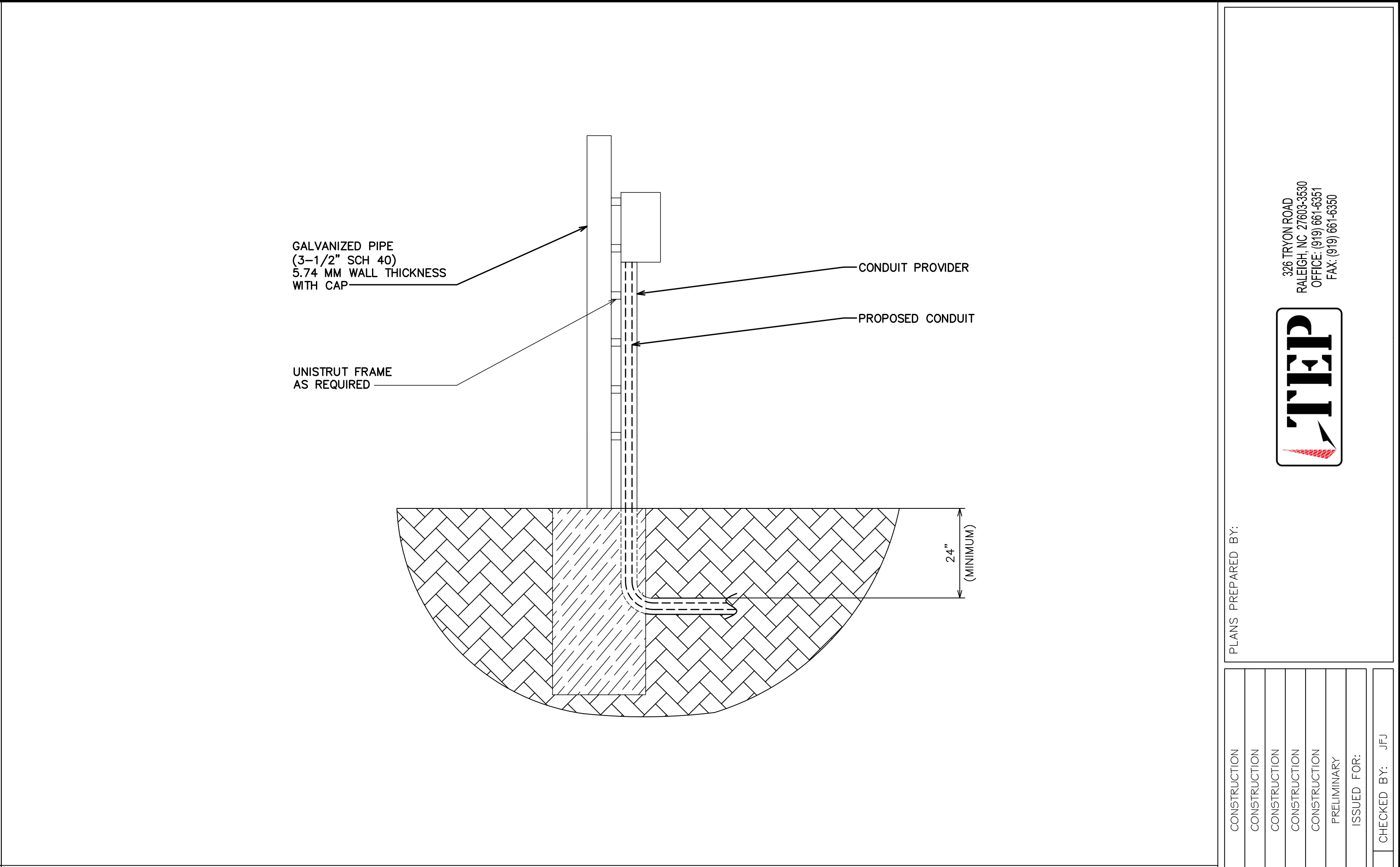
PLAN VIEW



SIDE VIEW

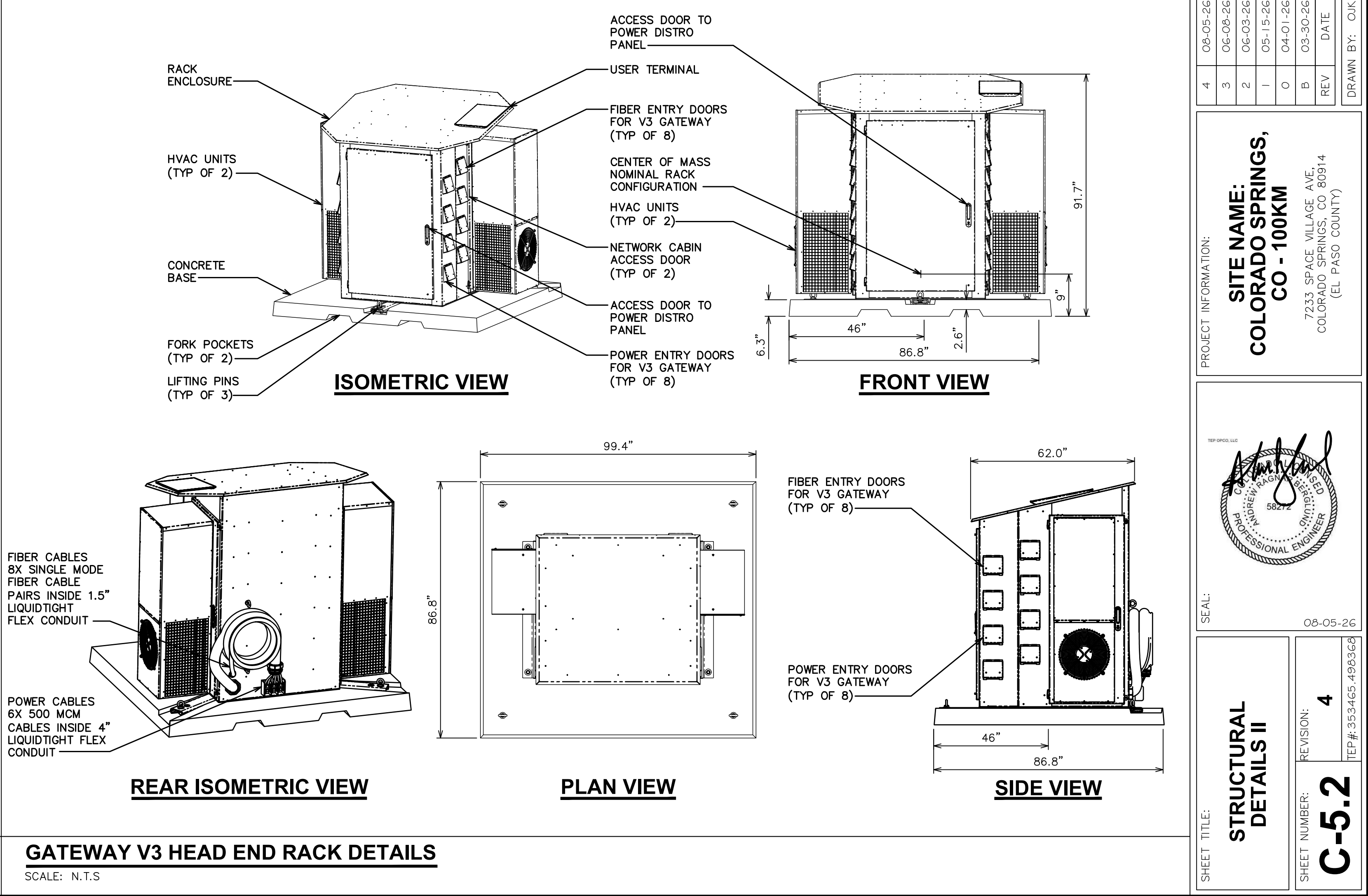
GATEWAY V5 ANTENNA DETAIL

SCALE: N.T.S



CONDUIT PROFILE DETAIL

SCALE: N.T.S



GATEWAY V3 HEAD END RACK DETAILS

SCALE: N.T.S

PLANS PREPARED BY:

CONSTRUCTION	08-05-26	4
CONSTRUCTION	06-08-26	3
CONSTRUCTION	06-03-26	2
CONSTRUCTION	05-15-26	1
CONSTRUCTION	04-01-26	0
PRELIMINARY	03-30-26	B
ISSUED FOR:	DATE	REV
CHECKED BY:	DATE	REV

326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE (919) 861-6351
FAX (919) 861-6350

TEP

PROJECT INFORMATION:

SITE NAME:
**COLORADO SPRINGS,
CO - 100KM**
7233 SPACE VILLAGE AVE.
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

SEAL:

08-05-26

SHEET TITLE:

**STRUCTURAL
DETAILS II**

SHEET NUMBER:

C-5.2

REVISION:

4

TEP #353465-499369

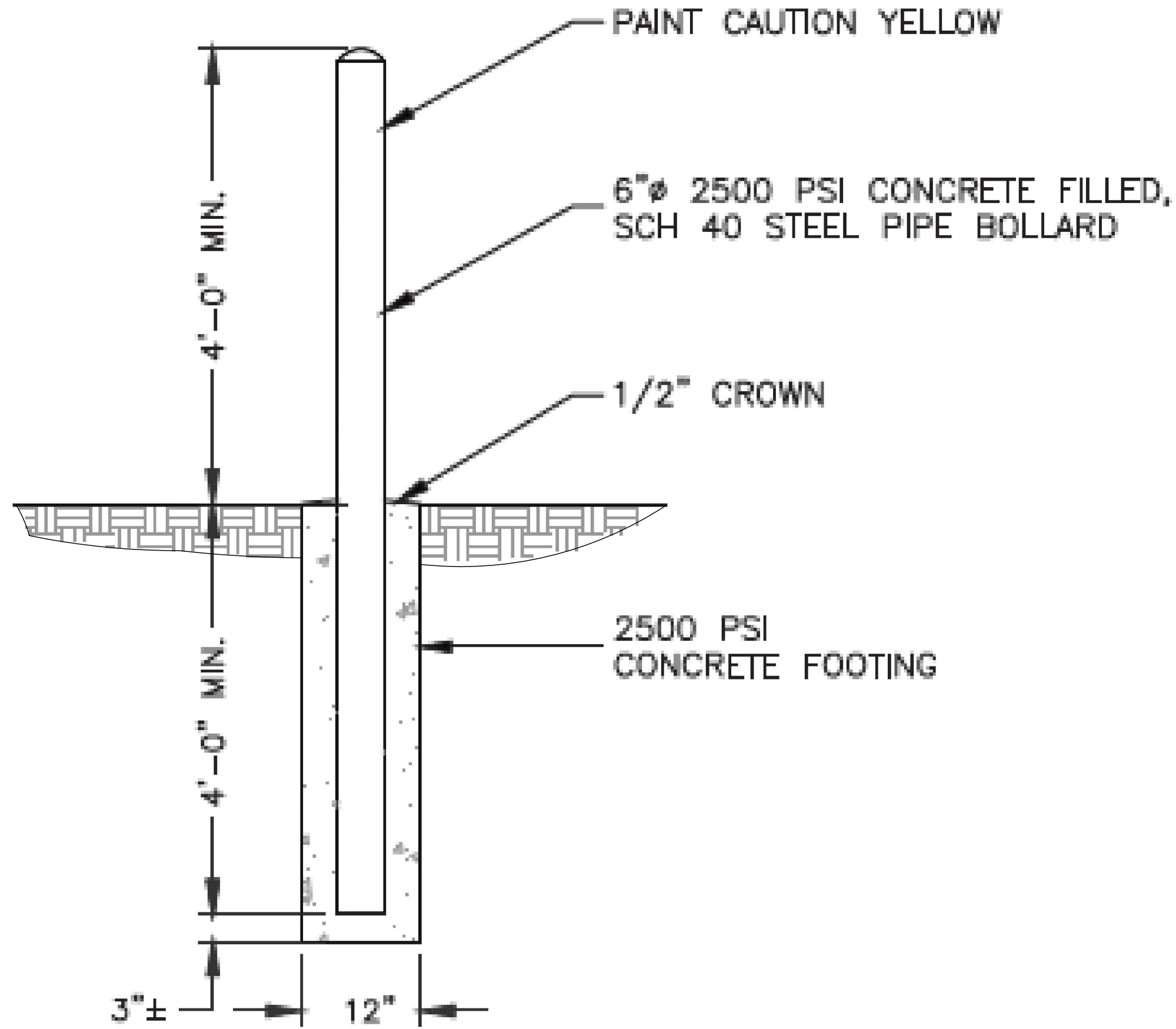
TEP IS A FAMILY OF COMPANIES LICENSED TO PROVIDE DIFFERENT SERVICES IN DIFFERENT JURISDICTIONS, DEPENDING ON THE JURISDICTION, PROFESSIONAL ENGINEERING AND LAND SURVEYING SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY, TEP ENGINEERING, LLC, A NORTH CAROLINA PROFESSIONAL LIMITED LIABILITY COMPANY, OR M&H ENGINEERING, LLC, A NEW YORK PROFESSIONAL LIMITED LIABILITY COMPANY. GENERAL CONTRACTOR SERVICES ARE PROVIDED BY TEP OPCO LLC, A DELAWARE LIMITED LIABILITY COMPANY. WE ACQUIRE THE REQUISITE LICENSES IN EACH STATE. ADDITIONAL INFORMATION CAN BE OBTAINED FROM THE COMPANY.

NOT USED

SCALE: N.T.S

STANDARD BOLLARD DETAIL

SCALE: N.T.S



SHEET TITLE:

STRUCTURAL
DETAILS III

SHEET NUMBER:

C-5.3

REVISION:

4

SEAL:



08-05-26

PROJECT INFORMATION:

SITE NAME:
COLORADO SPRINGS,
CO - 100KM

7233 SPAGE VILLAGE AVE.
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

08-05-26

CONSTRUCTION

CONSTRUCTION

CONSTRUCTION

CONSTRUCTION

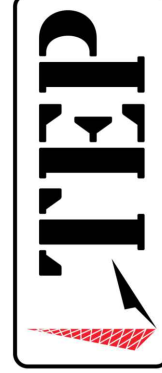
CONSTRUCTION

PRELIMINARY

ISSUED FOR:

CHECKED BY: JFJ

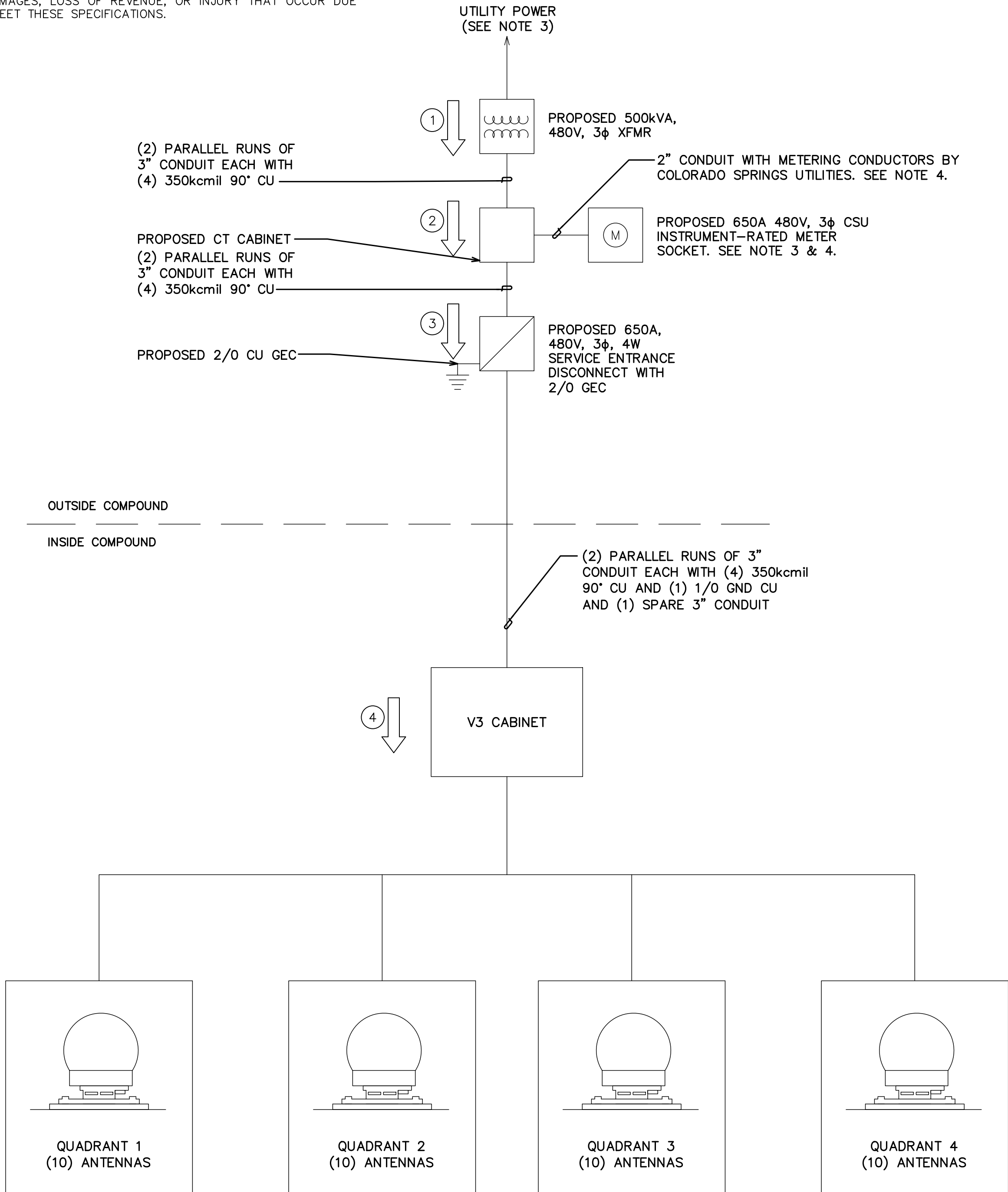
PLANS PREPARED BY:



326 TRYON ROAD
RALEIGH, NC 27603-3530
OFFICE (919) 861-6351
FAX (919) 861-6350

NOTES:

- ELECTRICAL DESIGN HAS A MAXIMUM VOLTAGE DROP OF 5% PER C405.10 OF THE 2021 IECC.
- A FINAL COMMISSIONING REPORT SHALL BE DELIVERED TO THE COMPOUND OWNER PER SECTION C408.2.5 OF THE 2021 IECC.
- ALL UTILITY SOURCE INFORMATION, INCLUDING FINAL TRANSFORMER LOCATION, SERVICE ROUTING, AND AVAILABLE FAULT CURRENT, IS PENDING FINAL UTILITY COORDINATION WITH COLORADO SPRINGS UTILITIES.
- FINAL METER SOCKET TYPE & METERING CONDUCTORS TO BE VERIFIED WITH COLORADO SPRINGS UTILITIES FIELD ENGINEER PRIOR TO INSTALLATION.
- LISTED AVAILABLE FAULT CURRENT AT THE SECONDARY TERMINALS OF THE PROPOSED 500KVA, THREE-PHASE, PAD-MOUNTED, UTILITY TRANSFORMER PROVIDED BY COLORADO SPRINGS UTILITIES. CONTRACTOR TO VERIFY THE INCOMING UTILITY FAULT CURRENT WITH COLORADO SPRINGS UTILITIES PRIOR TO CONSTRUCTION AND TO CONTACT EOR IF THE FAULT CALUE IS LARGER THAN THE VALUE NOTED IN THESE DRAWINGS.
- CONTRACTOR TO ENSURE THAT ALL CONDUCTORS ARE A MINIMUM OF LISTED LENGTH NOTED IN THE FAULT CALCULATIONS TABLE FOR THESE CALCULATIONS TO BE VALID. TEP ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DAMAGES, LOSS OF REVENUE, OR INJURY THAT OCCUR DUE TO FAILURE TO MEET THESE SPECIFICATIONS.



FAULT CURRENT AT EQUIPMENT			
#	EQUIPMENT	FAULT CURRENT	AIC RATING
①	UTILITY TRANSFORMER	43,000A	N/A
②	650A UTILITY METER	40,643A	MIN. 42k AIC
③	650A DISCONNECT	40,512A	MIN. 42k AIC
④	PROPOSED V3 CABINET	28,379A	MIN. 42k AIC

ONE-LINE DIAGRAM

SCALE: N.T.S.

NOTES:

- THE PANELBOARD SHALL HAVE A MINIMUM AMPERE INTERRUPTING CAPACITY (AIC) RATING OF 42,000 AMPS.
- LOAD INFORMATION FOR THIS PANEL IS BASED ON TYPICAL LOAD ITEMS ASSOCIATED WITH THIS CLASS/SIZE OF METERED MAIN BREAKER PANEL AS SUBMITTED TO THE UTILITY.

480V, 3Ø WYE, V3 POWER RACK AC DISTRIBUTION PANEL SCHEDULE												
LOAD SERVED	VOLT AMPERES (WATTS)			TRIP	CKT #	CKT #	TRIP	VOLT AMPERES (WATTS)			LOAD SERVED	
	L1	L2	L3					L1	L2	L3		
UPS #1	4711	4711	4711	30A	1,3,5	2,4,6	30A	3533	3533	3533	HVAC #1	
UPS #2	4711	4711	4711	30A	7,9,11	8,10,12	30A	3533	3533	3533	HVAC #2	
ANTENNA 1	3020	3020	3020	30A	13,15,17	14,16,18	30A	3020	3020	3020	ANTENNA 2	
ANTENNA 3	3020	3020	3020	30A	19,21,23	20,22,24	30A	3020	3020	3020	ANTENNA 4	
ANTENNA 5	3020	3020	3020	30A	25,27,29	26,28,30	30A	3020	3020	3020	ANTENNA 6	
ANTENNA 7	3020	3020	3020	30A	31,33,35	32,34,36	30A	3020	3020	3020	ANTENNA 8	
ANTENNA 9	3020	3020	3020	30A	37,39,41	38,40,42	30A	3020	3020	3020	ANTENNA 10	
ANTENNA 11	3020	3020	3020	30A	43,45,47	44,46,48	30A	3020	3020	3020	ANTENNA 12	
ANTENNA 13	3020	3020	3020	30A	49,51,53	50,52,54	30A	3020	3020	3020	ANTENNA 14	
ANTENNA 15	3020	3020	3020	30A	55,57,59	56,58,60	30A	3020	3020	3020	ANTENNA 16	
ANTENNA 17	3020	3020	3020	30A	61,63,65	62,64,66	30A	3020	3020	3020	ANTENNA 18	
ANTENNA 19	3020	3020	3020	30A	67,69,71	68,70,72	30A	3020	3020	3020	ANTENNA 20	
ANTENNA 21	3020	3020	3020	30A	73,75,77	74,76,78	30A	3020	3020	3020	ANTENNA 22	
ANTENNA 23	3020	3020	3020	30A	79,81,83	80,82,84	30A	3020	3020	3020	ANTENNA 24	
ANTENNA 25	3020	3020	3020	30A	85,87,89	86,88,90	30A	3020	3020	3020	ANTENNA 26	
ANTENNA 27	3020	3020	3020	30A	91,93,95	92,94,96	30A	3020	3020	3020	ANTENNA 28	
ANTENNA 29	3020	3020	3020	30A	97,99,101	98,100,102	30A	3020	3020	3020	ANTENNA 30	
ANTENNA 31	3020	3020	3020	30A	103,105,107	104,106,108	30A	3020	3020	3020	ANTENNA 32	
ANTENNA 33	3020	3020	3020	30A	109,111,113	110,112,114	30A	3020	3020	3020	ANTENNA 34	
ANTENNA 35	3020	3020	3020	30A	115,117,119	116,118,120	30A	3020	3020	3020	ANTENNA 36	
ANTENNA 37	3020	3020	3020	30A	121,123,125	122,124,126	30A	3020	3020	3020	ANTENNA 38	
ANTENNA 39	3020	3020	3020	30A	127,129,131	128,130,132	30A	3020	3020	3020	ANTENNA 40	
VOLT AMPS	69822	69822	69822					67466	67466	67466	VOLT AMPS	
L1 VOLT AMPERES				L1	L2	L3	L2, L3 VOLT AMPERES MAX VOLT AMPERES MAX AMPS MAX 3PH KVA					
				137288	137288	137288						
				137288								
				495.6								
				411.9								

- *INSTALL PER MARKET STANDARDS
- **ANTENNAS SHOWN AT MAXIMUM LOADING. POWER USAGE PROVIDED BY THE CUSTOMER
- ***ALL BREAKERS SHOWN IN THIS PANEL SCHEDULE ARE THREE POLE BREAKERS AND HAVE BEEN CONDENSED TO SINGLE LINES FOR SIMPLIFICATION
- ****PANEL AND BREAKERS SHOWN ARE COMPONENTS THAT ARE INSTALLED IN THE V3 CABINET BY THE MANUFACTURER

PANEL SCHEDULE

SCALE: N.T.S.

PLANS PREPARED BY:

4	08-05-26	CONSTRUCTION
3	06-09-26	CONSTRUCTION
2	06-03-26	CONSTRUCTION
1	05-15-26	CONSTRUCTION
0	04-01-26	CONSTRUCTION
B	03-30-26	PRELIMINARY
REV	DATE	ISSUED FOR:
DRAWN BY: OJK	CHECKED BY: JFJ	

PROJECT INFORMATION:

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COLORADO SPRINGS,
CO - 100KM
7233 SPAGE VILLAGE AVE.
COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

SEAL:



08-05-26

SHEET TITLE:

ELECTRICAL
DETAILS

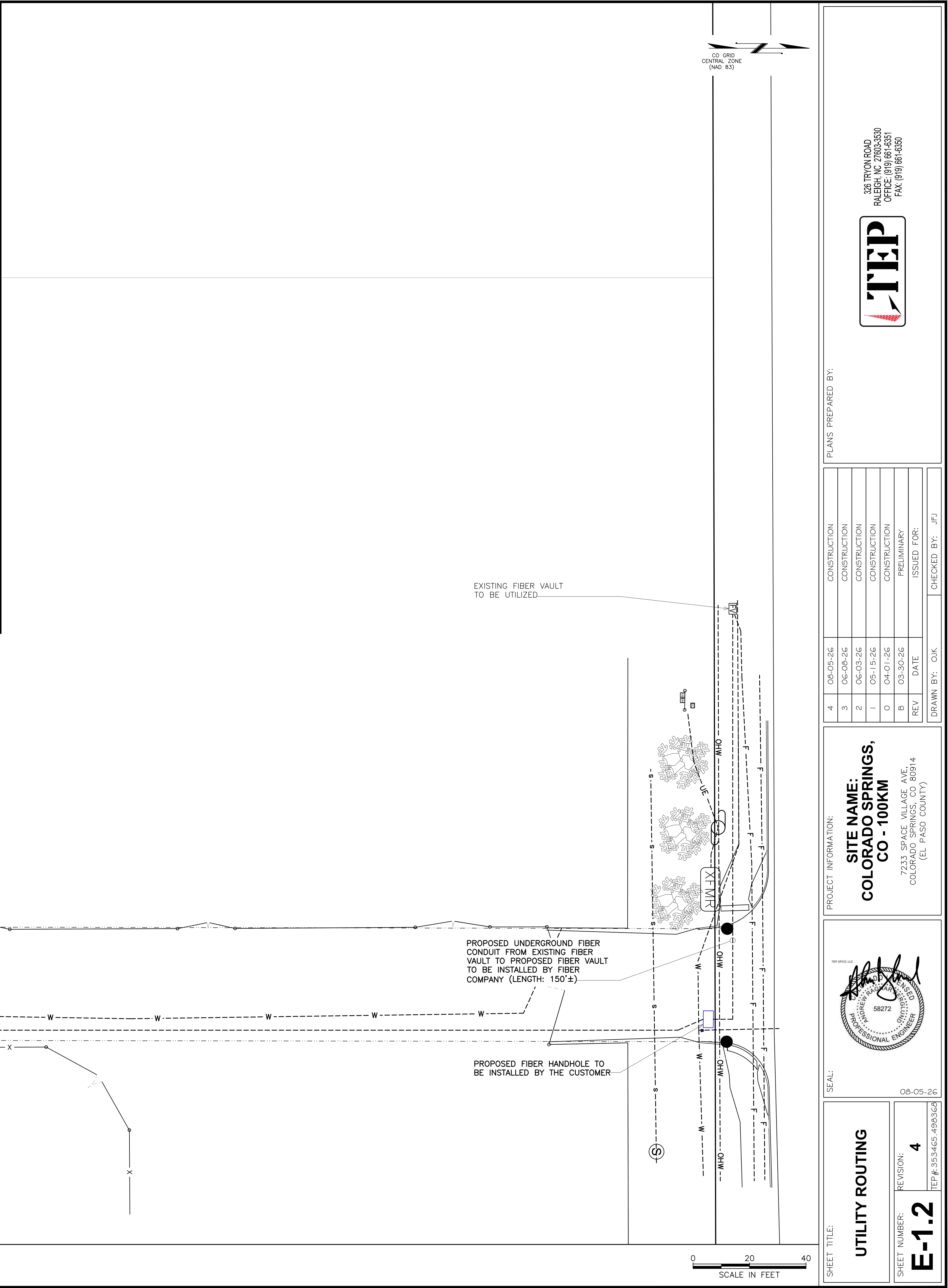
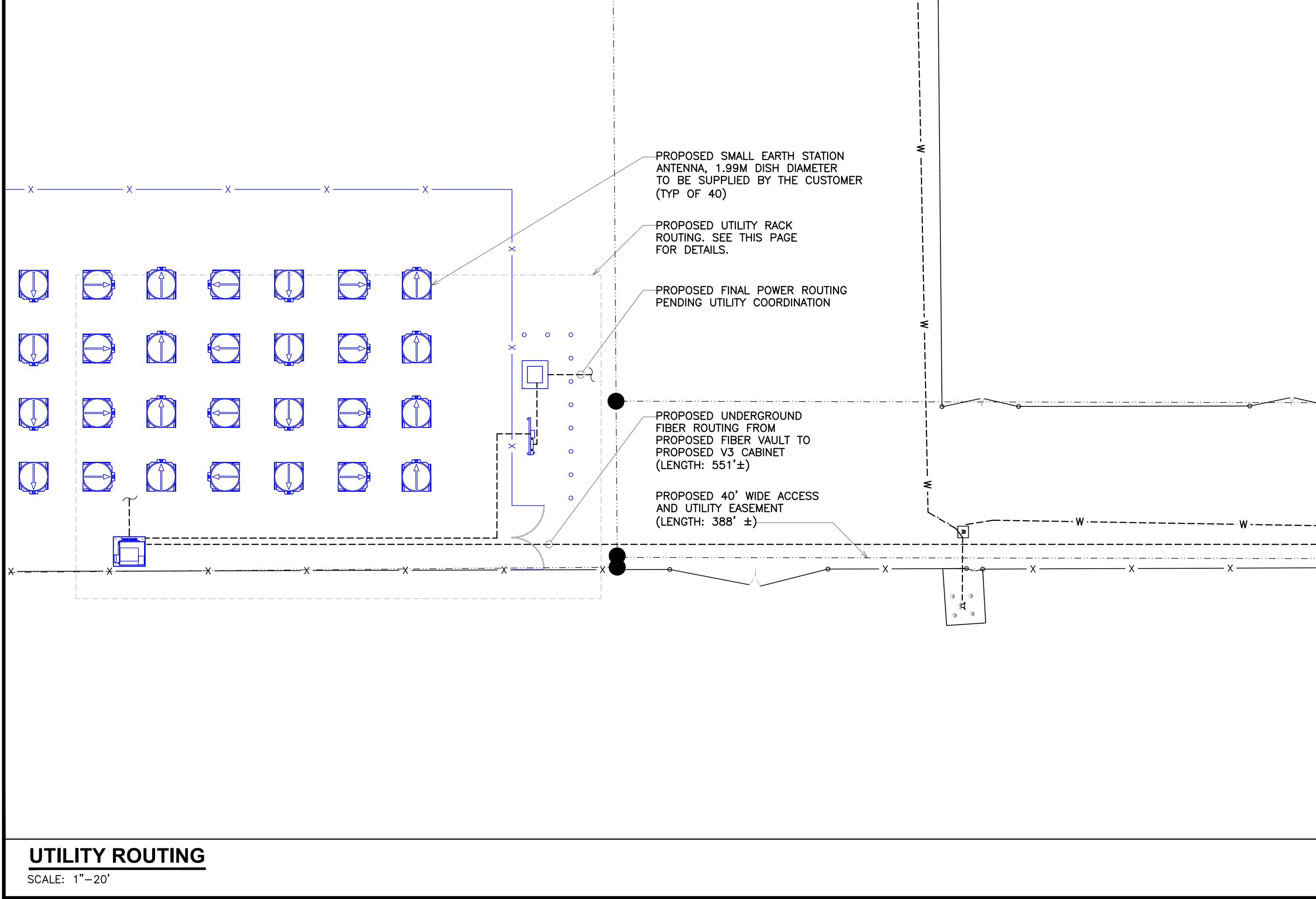
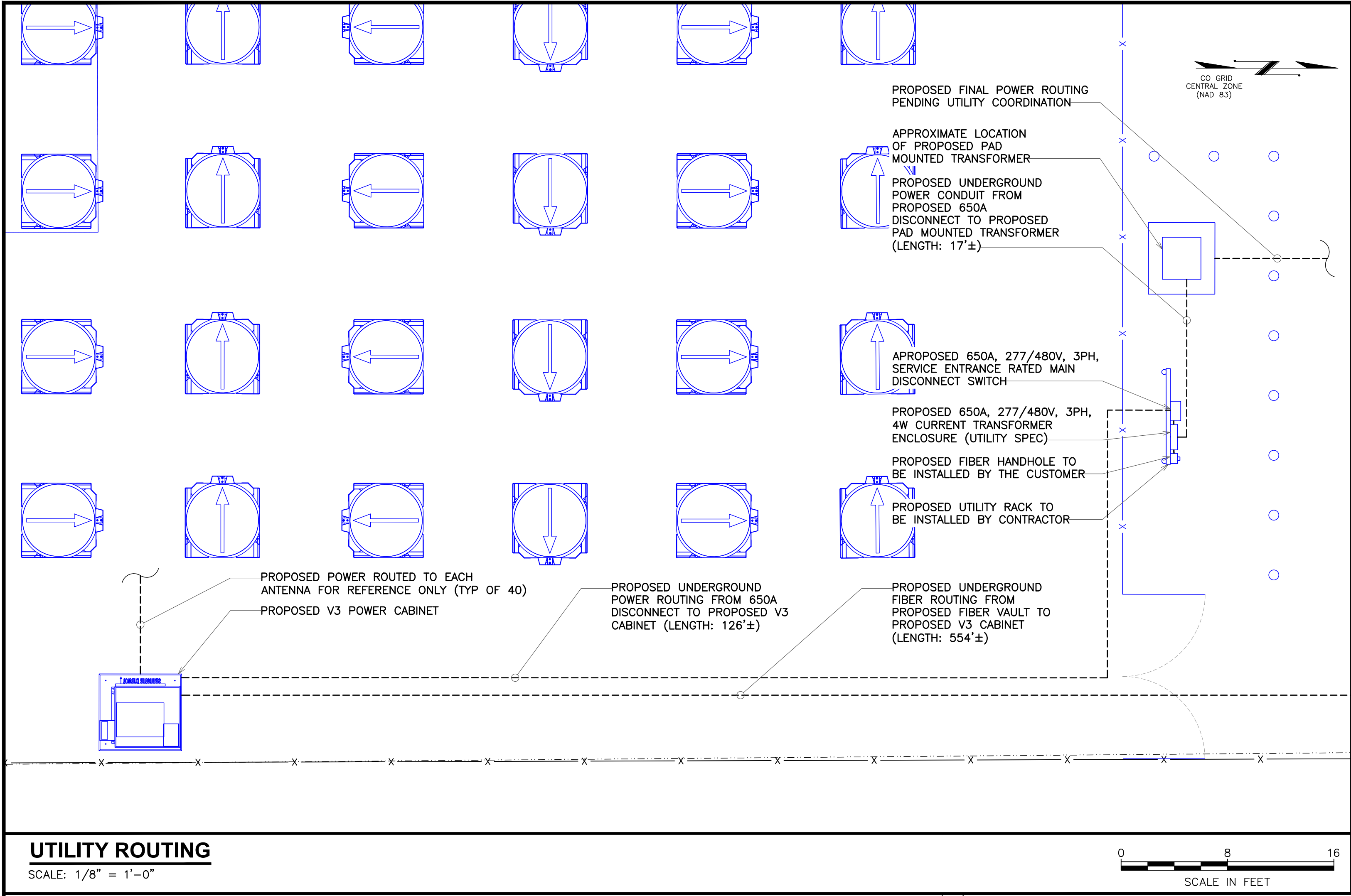
REVISION:

4

SHEET NUMBER:

E-1.1

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PLANS PREPARED BY:

CONSTRUCTION
CONSTRUCTION
CONSTRUCTION
CONSTRUCTION
PRELIMINARY
ISSUED FOR:

08-05-26
06-09-26
06-03-26
05-15-26
04-01-26
03-30-26

4
3
2
1
0
B
REV

DATE

DRAWN BY: OJK

CHECKED BY: JFJ

PROJECT INFORMATION:

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COLORADO SPRINGS, CO 80914
(EL PASO COUNTY)

SEAL:

08-05-26

UTILITY ROUTING

REVISION:
4

SHEET NUMBER:
E-1.2

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