



CUP-R22-0028 Exhibit A: Location/Vicinity Map

POR. SW 1/4 SEC. 36, T.11N., R.12E., M.D.M.



NOTE: All parcels on this page are Assessor's Block #

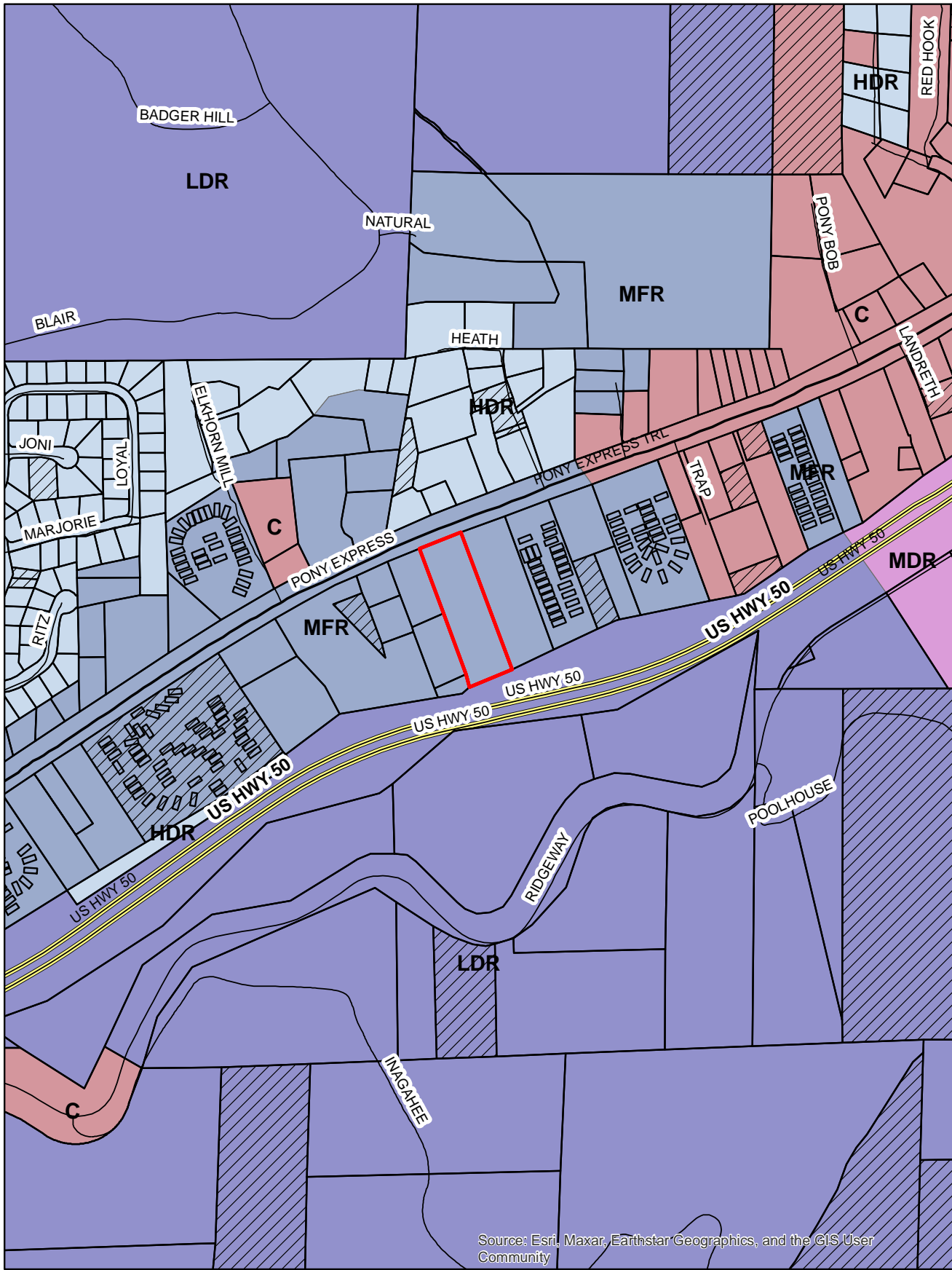
URVEY, it is prepared by the El Dorado Co. assessment purposes only. Area calculations not guaranteed. Users should verify items of acreage.

Acreages Are Estimates

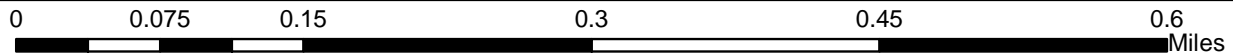
Adjacent Map Pages Shown in Grey Text  
Assessor's Block Numbers Shown in Ellipses  
Assessor's Parcel Numbers Shown in Circles

Rev. MAR 13 2018

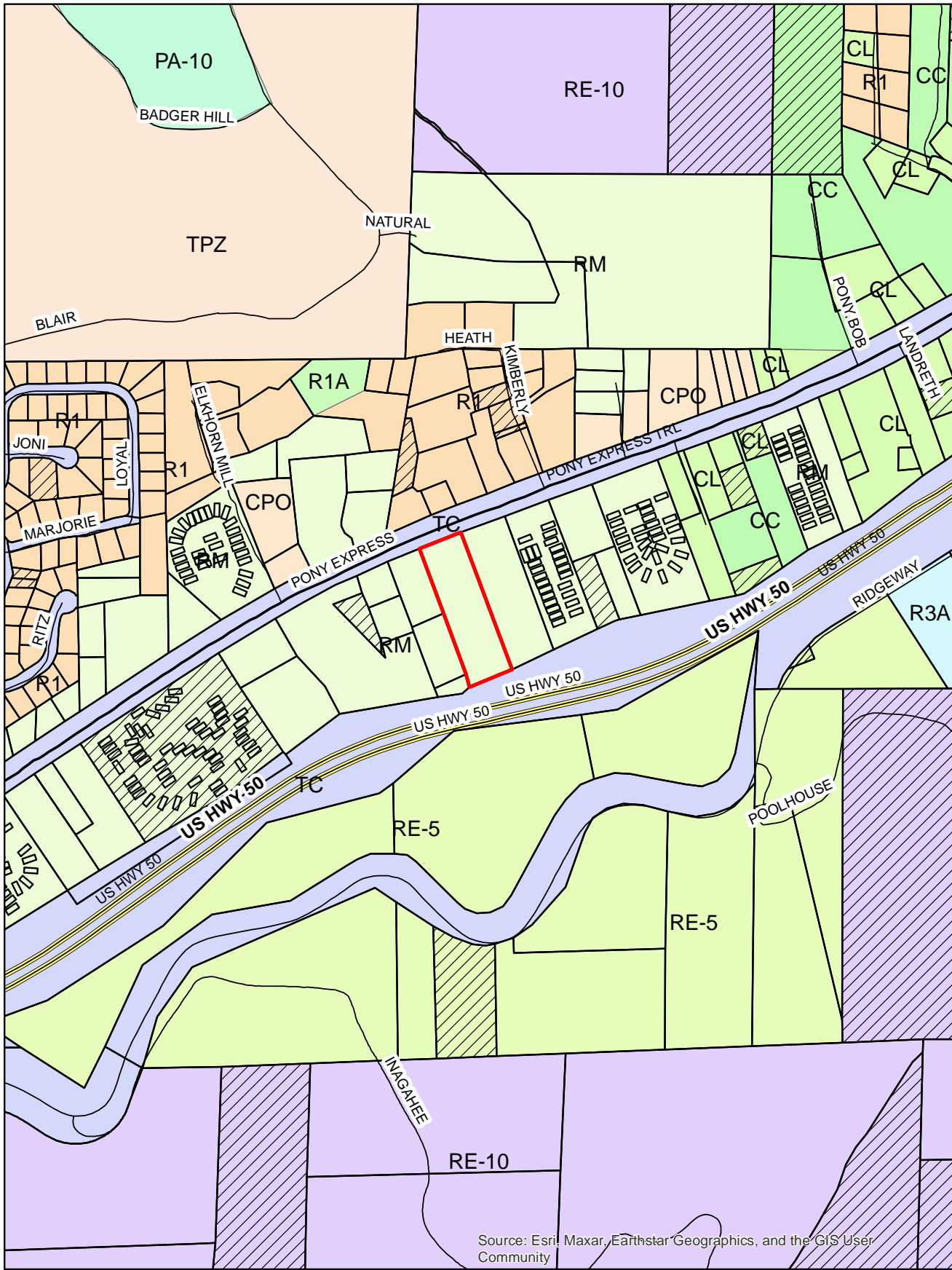
Assessor's Map  
County of El



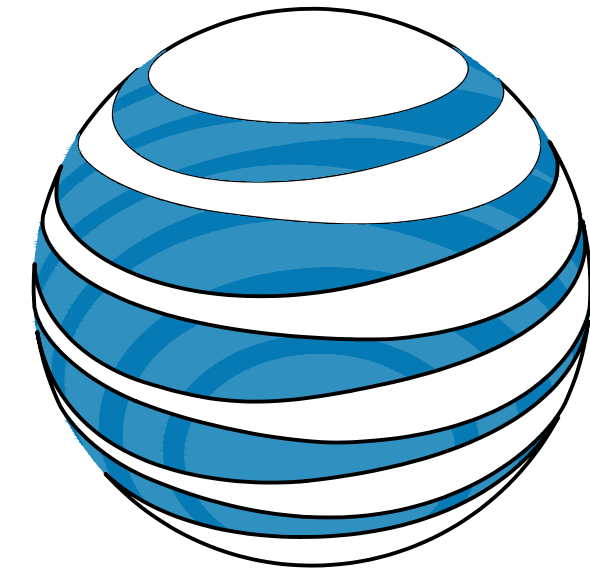
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



CUP-R22-0028 Exhibit C: Land Use Designation Map



CUP-R22-0028 Exhibit D: Zoning Designation Map

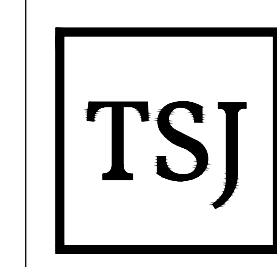


# CVL06558 - PONY EXPRESS ATC-COLO

**USID: 316108; FA:15725006**  
**PACE: MRSFR088754 / PTN: 3701A12DFY**

5940 PONY EXPRESS TRAIL  
POLLOCK PINES, CA 95726

CONSULTANT



TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

APPLICANT



SITE INFORMATION

## CVL06558

PONY EXPRESS  
ATC-COLO

5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

DESIGN RECORD

### REVISIONS

REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

PROFESSIONAL STAMP



SHEET TITLE

TITLE SHEET

SHEET

T-1

### SITE INFORMATION

**SITE ADDRESS:** 5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

**LATITUDE (NAD 83):** 38° 45' 16.10" N  
38.754472°

**LONGITUDE (NAD 83):** 120° 35' 53.32" W  
-120.598144°

**GROUND ELEVATION:** 3797.4' AMSL

**JURISDICTION:** EL DORADO COUNTY

**PROPERTY OWNER:** KAYNA WESTLEY CA LLC

**TOWER OWNER:** 414317  
POLLOCK PINES, CA 95726

**ZONING:** -

**PARCEL/MAP NUMBER:** 101-201-080-000

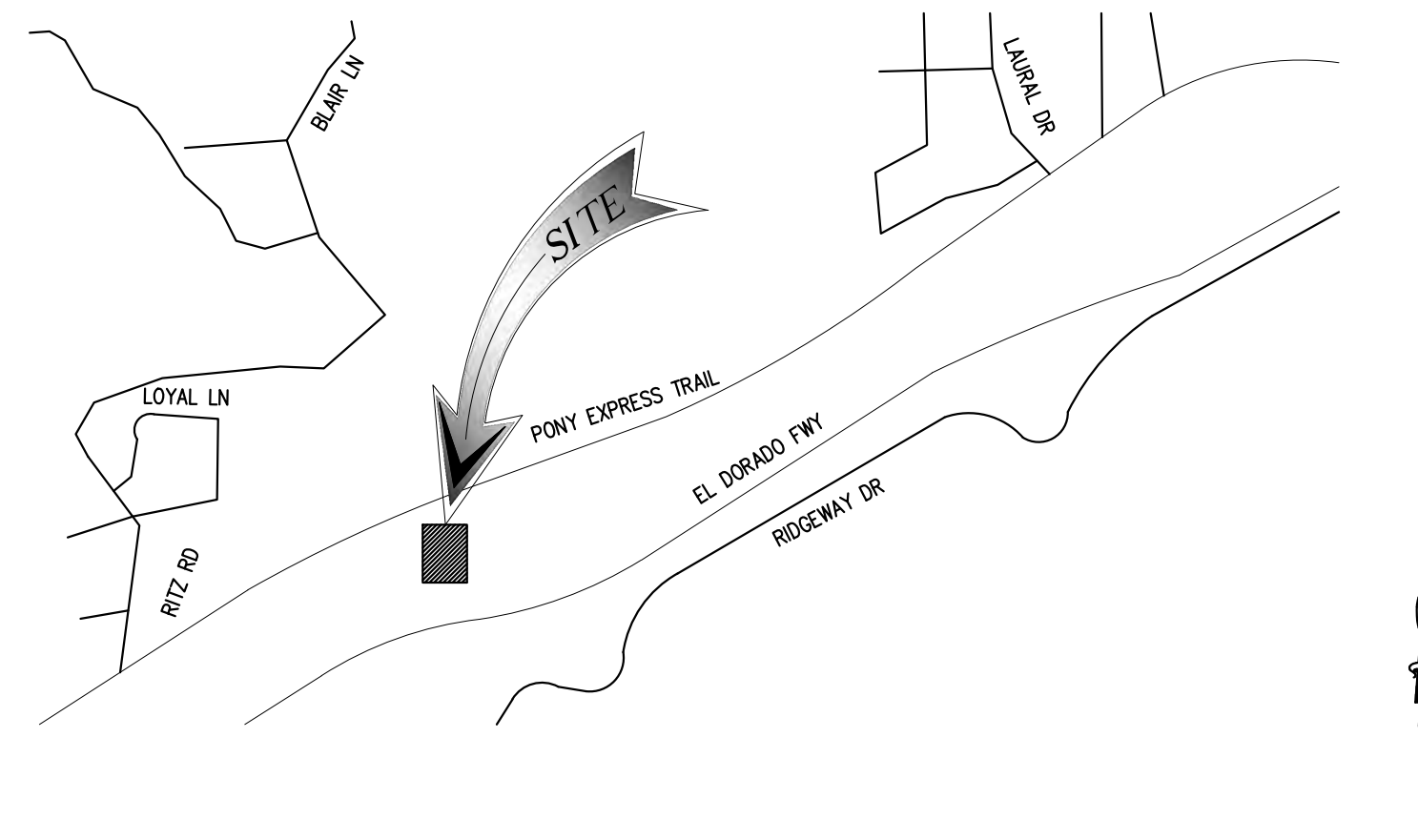
**STRUCTURE TYPE:** MONOPINE

**STRUCTURE HEIGHT:** 139'-4" (AGL)

**POWER SUPPLIER:** PG&E

**TELCO SUPPLIER:** AT&T

### VICINITY MAP



### DIRECTIONS

#### DIRECTIONS FROM AT&T SAN RAMON OFFICE:

- HEAD SOUTHWEST. TURN RIGHT. TURN LEFT TOWARD EXECUTIVE PKWY.
- TURN RIGHT TOWARD EXECUTIVE PKWY. TURN RIGHT ONTO EXECUTIVE PKWY.
- TURN LEFT ONTO CAMINO RAMON
- USE THE LEFT 2 LANES TO TURN LEFT ONTO CROW CANYON RD
- USE THE RIGHT 2 LANES TO MERGE ONTO I-680 N VIA THE RAMP TO SACRAMENTO
- MERGE ONTO I-680 N
- KEEP LEFT AT THE FORK TO STAY ON I-680 N
- KEEP RIGHT TO CONTINUE ON I-680 N
- USE ANY LANE TO TAKE EXIT 71A TOWARD I-80 E/SACRAMENTO
- MERGE ONTO I-80 E
- KEEP LEFT TO CONTINUE ON I-80BL E/US-50 E, FOLLOW SIGNS FOR SACRAMENTO/SOUTH LAKE TAHOE/CAPITAL CITY FREEWAY
- CONTINUE STRAIGHT TO STAY ON US-50 E/EL DORADO FWY
- TAKE EXIT 60 FOR SLY PARK RD
- TURN LEFT ONTO SLY PARK RD
- TURN LEFT ONTO PONY EXPRESS TRAIL
- DESTINATION WILL BE ON THE LEFT

### CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND 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 THE LATEST EDITIONS OF THE FOLLOWING CODES.

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

### DRAWING INDEX

T-1	TITLE SHEET
T-2	GENERAL NOTES
T-3	TYPICAL SIGNAGE DETAILS
F-1	BATTERY INFORMATION
C-1	SITE SURVEY
C-2	SITE SURVEY
A-1	SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	EQUIPMENT, ANTENNA LAYOUTS AND ANTENNA SCHEDULE
A-4	ELEVATIONS
A-5	ELEVATIONS
D-1	DETAILS
D-2	DETAILS
D-3	DETAILS
D-4	DETAILS
D-5	DETAILS
D-6	GENERATOR SPECIFICATIONS
D-7	DETAILS
D-8	DETAILS
E-1	UTILITY SITE PLAN AND NOTES
E-2	PANEL SCHEDULE AND SINGLE LINE DIAGRAM
G-1	GROUNDING PLANS AND NOTES
G-2	GROUNDING DETAILS

### DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 24"X36" AND HALF SIZE AT 11"X17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

### SCOPE OF WORK

THIS PROJECT CONSISTS OF THE INSTALLATION OF A NEW AT&T WIRELESS ANTENNA FACILITY:  
SCOPE OF WORK:

- EQUIPMENT AREA**
- INSTALL NEW CWIC CABINET AND 30KW STANDBY BACK UP GENERATOR
  - INSTALL ASSOCIATED UTILITY CABINETS AND H-FRAME
  - INSTALL (1) NEW GPS ANTENNA
  - INSTALL 15'X30' CHAIN LINK EQUIPMENT ENCLOSURE
  - INSTALL 20'-0" EXTENSION TO EXISTING MONOPINE
  - INSTALL (1) NEW GPS ANTENNA
  - INSTALL (1) NEW DC50 RAYCAP TO SIDE OF THE NEW CWIC CABINET

- ANTENNA AREA**
- INSTALL (9) NEW PANEL ANTENNAS
  - INSTALL (15) NEW RRRUS
  - INSTALL (3) NEW DC-9 SURGE PROTECTORS
  - INSTALL NEW FIBER AND DC CABLES TO NEW ANTENNAS

**LEASE AREA:**  
EQUIPMENT AREA: 450 SF  
ANTENNA AREA: 355 SF  
TOTAL LEASE AREA: 805 SF

A.B.	ANCHOR BOLT	GRND.	GROUND
ABV.	ABOVE	HDR.	HEADER
ACCA	ANTENNA CABLE COVER ASSEMBLY	HT	HANGER
ADD'L	ADDITIONAL	HT	HEIGHT
A.F.F.	ABOVE FINISHED FLOOR	ICGB.	ISOLATED COPPER GROUND BUS
A.F.G.	ABOVE FINISHED GRADE	IN.(")	INCH(ES)
ALUM.	ALUMINUM	INT.	INTERIOR
ALT.	ALTERNATE	LB.(#)	POUND(S)
ANT.	ANTENNA	L.B.	LAG BOLTS
APPRX.	APPROXIMATE(LY)	L.F.	LINEAR FEET (FOOT)
ARCH.	ARCHITECT(URAL)	L.	LONG(ITUDINAL)
AWG.	AMERICAN WIRE GAUGE	MAS.	MASONRY
BLDG.	BUILDING	MAX.	MAXIMUM
BLK.	BLOCK	M.B.	MACHINE BOLT
BLKG.	BLOCKING	MECH.	MECHANICAL
BM.	BEAM	MFR.	MANUFACTURER
B.N.	BOUNDARY NAILING	MIN.	MINIMUM
BTOW.	BARE TINNED COPPER WIRE	MISC.	MISCELLANEOUS
B.O.F.	BOTTOM OF FOOTING	MTL.	METAL
B/U	BACK-UP CABINET	(N)	NEW
CAB.	CABINET	NO.(#)	NUMBER
CANT.	CANTILEVER(ED)	N.T.S.	NOT TO SCALE
C.I.P.	CAST IN PLACE	O.C.	ON CENTER
CLG.	CEILING	OPNG.	OPENING
CLR.	CLEAR	P/C	PRECAST CONCRETE
COL.	COLUMN	PCS	PERSONAL COMMUNICATION SERVICES
CONC.	CONCRETE	PLY.	PLYWOOD
CONN.	CONNECTION(OR)	PPC	POWER PROTECTION CABINET
CONST.	CONSTRUCTION	PRC	PRIMARY RADIO CABINET
CONT.	CONTINUOUS	P.S.F.	POUNDS PER SQUARE FOOT
d	PENNY (NAILS)	P.S.I.	POUNDS PER SQUARE INCH
DBL.	DOUBLE	P.T.	PRESSURE TREATED
DEPT.	DEPARTMENT	PWR.	POWER (CABINET)
D.F.	DOUGLAS FIR	QTY.	QUANTITY
DIA.	DIAMETER	RD.(R)	RADIUS
DIAG.	DIAGONAL	REF.	REFERENCE
DIM.	DIMENSION	REINF.	REINFORCEMENT(ING)
DWG.	DRAWING(S)	REQ'D.	REQUIRED
DWL.	DOWEL(S)	RGS.	RIGID GALVANIZED STEEL
EA.	EACH	SCH.	SCHEDULE
EL.	ELEVATION	SHT.	SHEET
ELEC.	ELECTRICAL	SIM.	SIMILAR
ELEV.	ELEVATOR	SPEC.	SPECIFICATION(S)
EMT.	ELECTRICAL METALLIC TUBING	SQ.	SQUARE
E.N.	EDGE NAIL	S.S.	STAINLESS STEEL
ENGR.	ENGINEER	STD.	STANDARD
EQ.	EQUAL	STL.	STEEL
EXP.	EXPANSION	STRUC.	STRUCTURAL
EXST.(E)	(E)	TEMP.	TEMPORARY
EXT.	EXTERIOR	THK.	THICK(NESS)
FAB.	FABRICATION(OR)	T.N.	TOE NAIL
F.F.	FINISH FLOOR	T.O.A.	TOP OF ANTENNA
F.G.	FINISH GRADE	T.O.C.	TOP OF CURB
FIN.	FINISH(ED)	T.O.F.	TOP OF FOUNDATION
FLR.	FLOOR	T.O.P.	TOP OF PLATE (PARAPET)
FDN.	FOUNDATION	T.O.S.	TOP OF STEEL
F.O.C.	FACE OF CONCRETE	T.O.W.	TOP OF WALL
F.O.M.	FACE OF MASONRY	TYP.	TYPICAL
F.O.S.	FACE OF STUD	U.G.	UNDER GROUND
F.O.W.	FACE OF WALL	U.L.	UNDERWRITERS LABORATORY
F.S.	FINISH SURFACE	U.N.O.	UNLESS NOTED OTHERWISE
FT.(')	FOOT(FEET)	V.I.F.	VERIFY IN FIELD
FTG.	FOOTING	W	WIDE(WIDTH)
G.	GROWTH (CABINET)	W/	WITH
GA.	GAUGE	WD.	WOOD
GL.	GALVANIZE(D)	W.P.	WEATHERPROOF
G.F.I.	GROUND FAULT CIRCUIT INTERRUPTER	WT.	WEIGHT
GLB.(GLU-LAM)	GLUE LAMINATED BEAM	☉	CENTERLINE
GPS	GLOBAL POSITIONING SYSTEM	Ⓜ	PLATE

**ABBREVIATIONS** 3

	NEW ANTENNA		GROUT OR PLASTER
	EXISTING ANTENNA		EXISTING BRICK
	GROUND ROD		EXISTING MASONRY
	GROUND BUS BAR		CONCRETE
	MECHANICAL GRND. CONN.		EARTH
	CADWELD		GRAVEL
	GROUND ACCESS WELL		PLYWOOD
	ELECTRIC BOX		SAND
	TELEPHONE BOX		WOOD CONT.
	LIGHT POLE		WOOD BLOCKING
	SPOT ELEVATION		STEEL
	SET POINT		CENTERLINE
	REVISION		PROPERTY/LEASE LINE
	GRID REFERENCE		MATCH LINE
	DETAIL REFERENCE		WORK POINT
	ELEVATION REFERENCE		GROUND CONDUCTOR
	SECTION REFERENCE		TELEPHONE CONDUIT
			ELECTRICAL CONDUIT
			COAXIAL CABLE
			OVERHEAD SERVICE CONDUCTORS
			CHAIN LINK FENCING

**LEGEND** 4

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.

2. THIS FACILITY IS AN UNOCCUPIED PCS TELECOMMUNICATIONS SITE AND IS EXEMPT FROM DISABLED ACCESS REQUIREMENTS.

3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE NEW PROJECT, WITH THE CONSTRUCTION AND CONTRACT DOCUMENTS, FIELD CONDITIONS, AND CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN, PRIOR TO PROCEEDING WITH SUBMISSION OF BIDS & CONSTRUCTION. SHOULD ANY ERRORS, OMISSION, OR DISCREPANCIES BE FOUND, THE CONTRACTORS SHALL IMMEDIATELY NOTIFY PROJECT MANAGER, AND THE ARCHITECT IN WRITING. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL INCLUDE THE MORE COSTLY OR EXTENSIVE WORK IN THE BID, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTIFIED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.

4. DRAWINGS SHALL NOT BE SCALED. FIGURED DIMENSIONS HAVE PRECEDENCE OVER DRAWING SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS, OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.

5. CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND THE ARCHITECT IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.

6. (E) ELEVATIONS AND LOCATIONS TO BE JOINED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER, AND THE ARCHITECT SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.

7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE PROJECT MANAGER, AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.

8. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO AT&T.

9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK, USING THE BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE'S

10. WORKMANSHIP THROUGHOUT SHALL BE OF THE BEST QUALITY OF THE TRADE INVOLVED, AND SHALL MEET OR EXCEED THE FOLLOWING MINIMUM REFERENCE STANDARDS FOR QUALITY AND PROFESSIONAL CONSTRUCTION PRACTICE:

NRCA - NATIONAL ROOFING CONTRACTORS ASSOCIATION  
O'HARE INTERNATIONAL CENTER  
10255 W. HIGGINS ROAD, SUITE 600 ROSEMONT, IL  
60018

SMACNA - SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION  
4201 LAFAYETTE CENTER DRIVE CHATTILLY, VA  
22021-1209

ITLP - INTERNATIONAL INSTITUTE FOR LATH AND PLASTER  
820 TRANSFER ROAD  
ST. PAUL, MN 55114-1406

AMA - ADHESIVE MANUFACTURERS ASSOCIATION  
401 NORTH MICHIGAN AVENUE, SUITE 2400  
CHICAGO, IL 60611

11. THE CONTRACTOR SHALL VERIFY, COORDINATE, AND PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORTS FOR ALL ITEMS REQUIRING THE SAME.

12. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTORS SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS. CONTRACTORS SHALL COMPLY WITH STATE DEPARTMENT OF INDUSTRIAL REGULATIONS AND DIVISION OF INDUSTRIAL SAFETY (OSHA) REQUIREMENTS.

13. CONTRACTORS SHALL PROTECT THE OWNERS' PROPERTY FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW AND (E) CONSTRUCTION, STRUCTURE, LANDSCAPING, CURBS, STAIRS, OR EQUIPMENT, ETC., SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER, OR HIS REPRESENTATIVE, AND AT&T REPRESENTATIVE, AT THE EXPENSE OF THE CONTRACTOR.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR INFERIOR MATERIALS OR WORKMANSHIP, OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK UNDER THIS CONTRACT BY AT&T.

15. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO LOCATE ALL (E) UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTORS SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE PROJECT SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED AND ACCEPTED BY AT&T.

17. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER AND THE CITY OR GOVERNING AGENCY.

18. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PERTAINING TO THIS PROJECT SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY WORKERS. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA AND CHANGE ORDERS, ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.

19. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEANUP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROOM CLEAN CONDITION AT THE END OF EACH DAY. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.

20. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF NORMAL ACTIVITY.

21. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.

22. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.

23. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A, 10-BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT CONSTRUCTION AREA.

24. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.

25. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CAULKED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURES.

26. U.N.O., CONTRACTOR SHALL PROVIDE CLOSE-OUT PACKAGE TO AT&T WHICH WILL INCLUDE:  
(CONTRACTOR SHALL REFER TO THEIR CURRENT CONTRACT FOR A COMPLETE LIST OF DELIVERABLES.)

A. BUILDING PERMITS/ELECTRICAL PERMITS  
B. FINAL INSPECTION CARD  
C. STAMPED BUILDING PERMIT PLANS  
D. GROUNDING TEST  
E. SWEEP TEST  
F. CONCRETE TEST  
G. SPECIAL INSPECTION REPORTS  
H. WARRANTIES, MANUAL, EQUIPMENT SPECIFICATIONS  
I. SUBCONTRACTOR CONTACT LIST  
J. RED LINED ASBUILTS  
K. CONSTRUCTION PROCESS PHOTOS  
L. SITE COMPLETION PHOTOS  
M. A WRITTEN REPORT ON ANTENNA SERIAL NUMBER FOR EACH SECTOR  
N. MANUFACTURER'S PERFORMANCE REPORT FOR EACH ANTENNA

CONTRACTOR SHALL REFER TO THEIR CURRENT CONTRACT FOR A COMPLETE LIST OF DELIVERABLES.

**GENERAL NOTES** 2

1. PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.

3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT.) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HRS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.

4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.

6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.

7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.

8. THE ARCHITECT/ENGINEER, CONNELL DESIGN GROUP LLC, AND REPRESENTATIVES OF THE OWNER, MUST BE NOTIFIED AT LEAST TWO FULL DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

9. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.

10. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.

11. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.

12. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.

13. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.

14. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.

15. INCLUDE MISC. ITEMS PER AT&T SPECIFICATIONS.

**GENERAL CONSTRUCTION NOTES** 1

**CONSULTANT**

TSJ CONSULTING INC.  
27128 PASCO ESTADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

**APPLICANT**

**SITE INFORMATION**

**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

**DESIGN RECORD**

REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

**PROFESSIONAL STAMP**

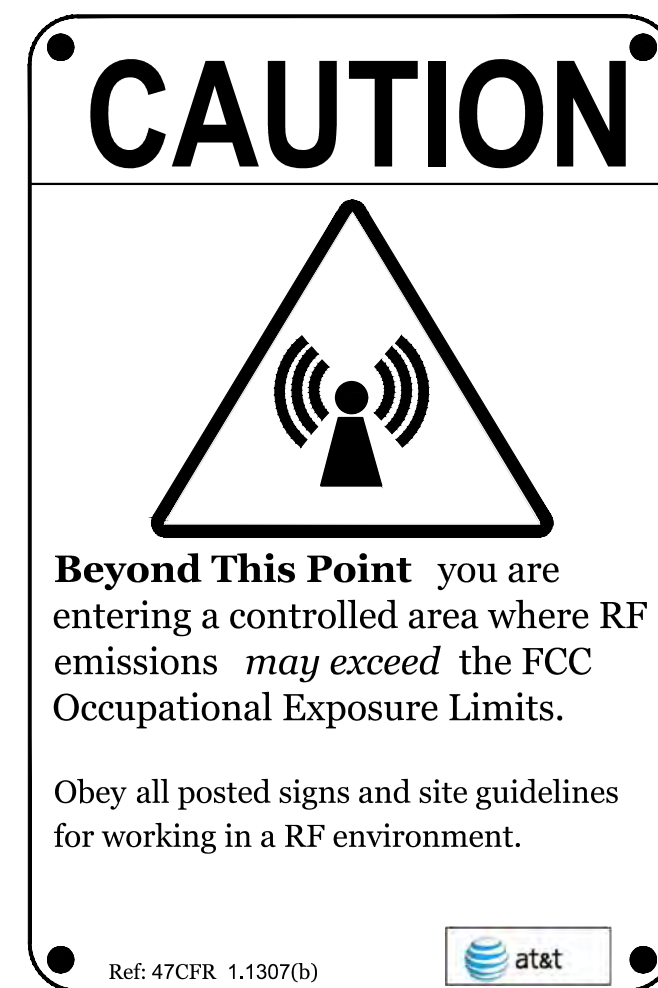
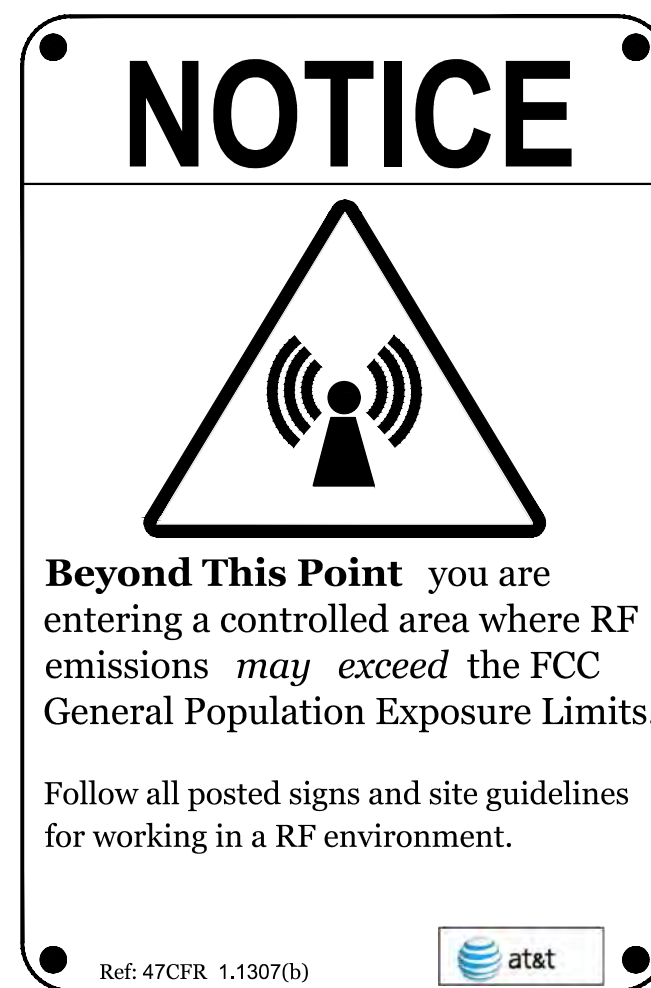
DATE STAMPED: 02/01/2023

**SHEET TITLE**

**GENERAL NOTES**

**SHEET**

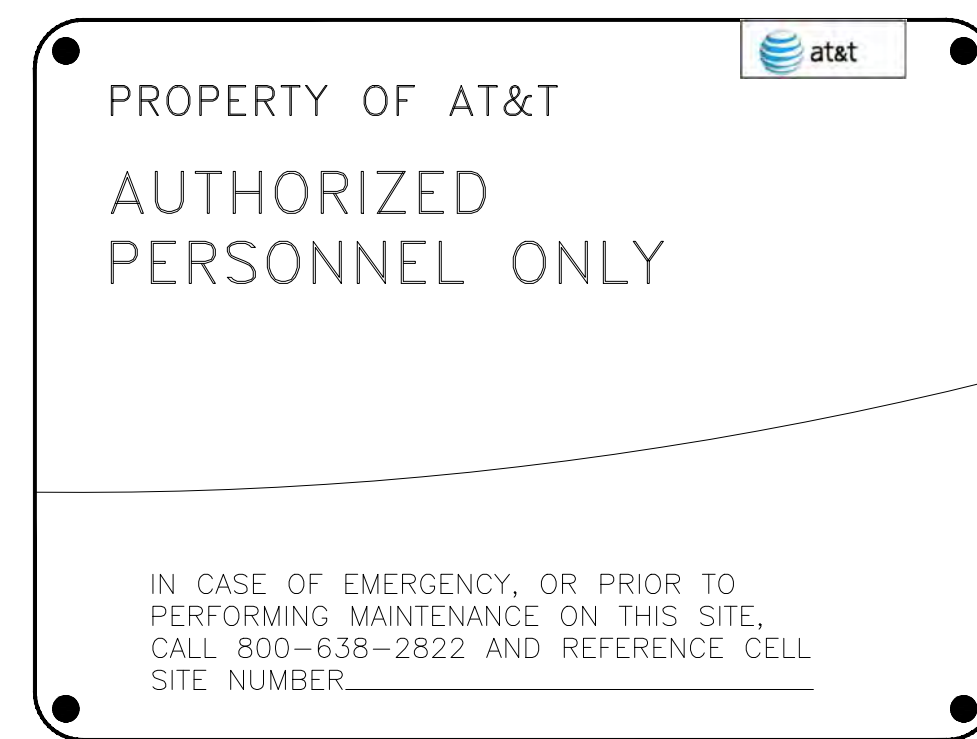
**T-2**



ALERTING SIGNS  
NO SCALE



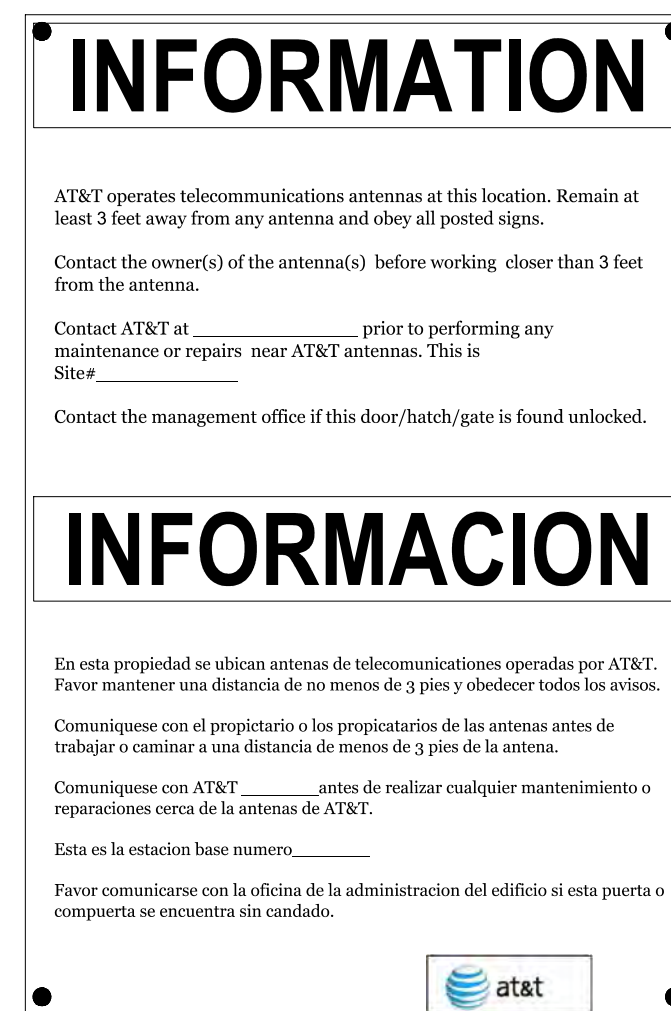
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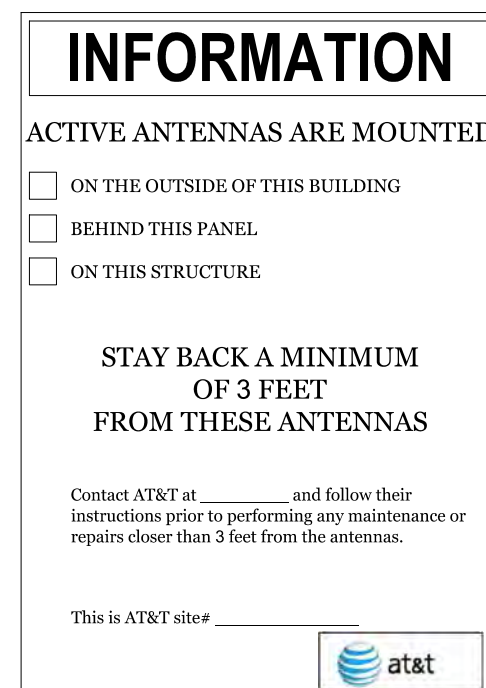
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NO SCALE



INFO SIGN #3  
NO SCALE



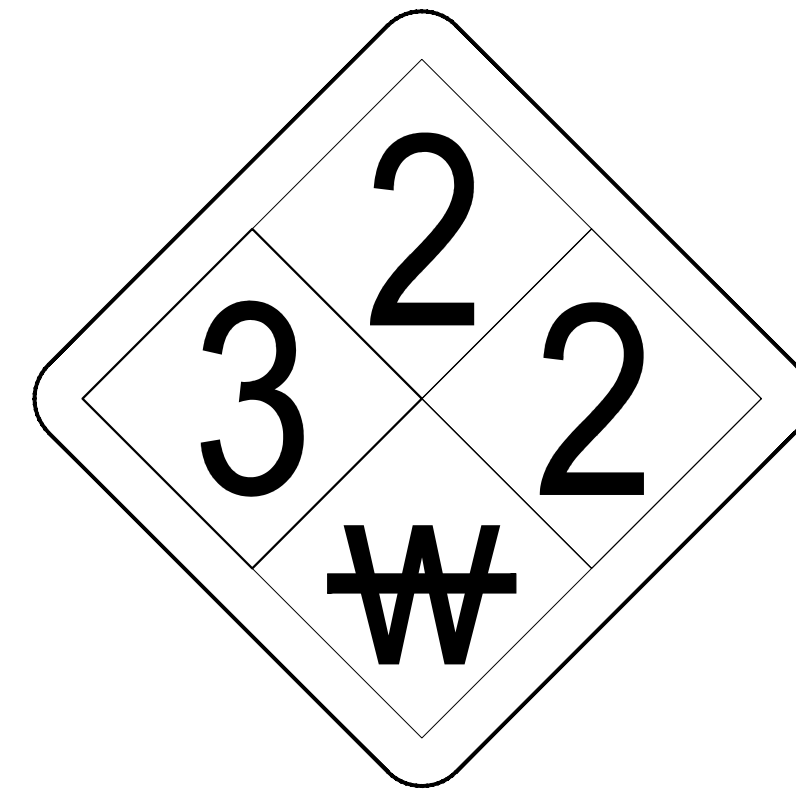
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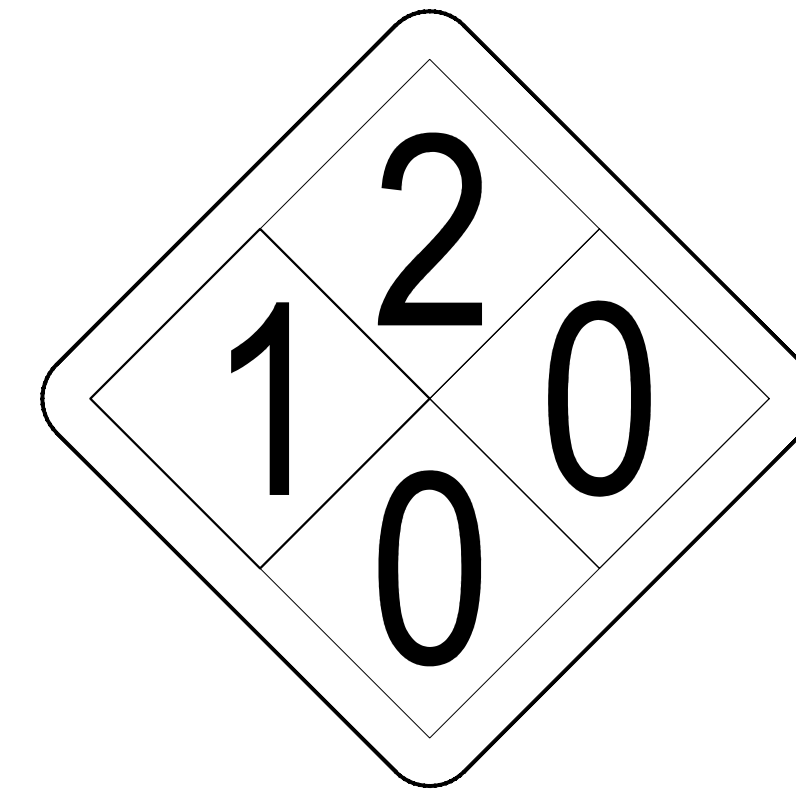
INFO SIGN #2  
NO SCALE

INFO SIGN #4  
NO SCALE

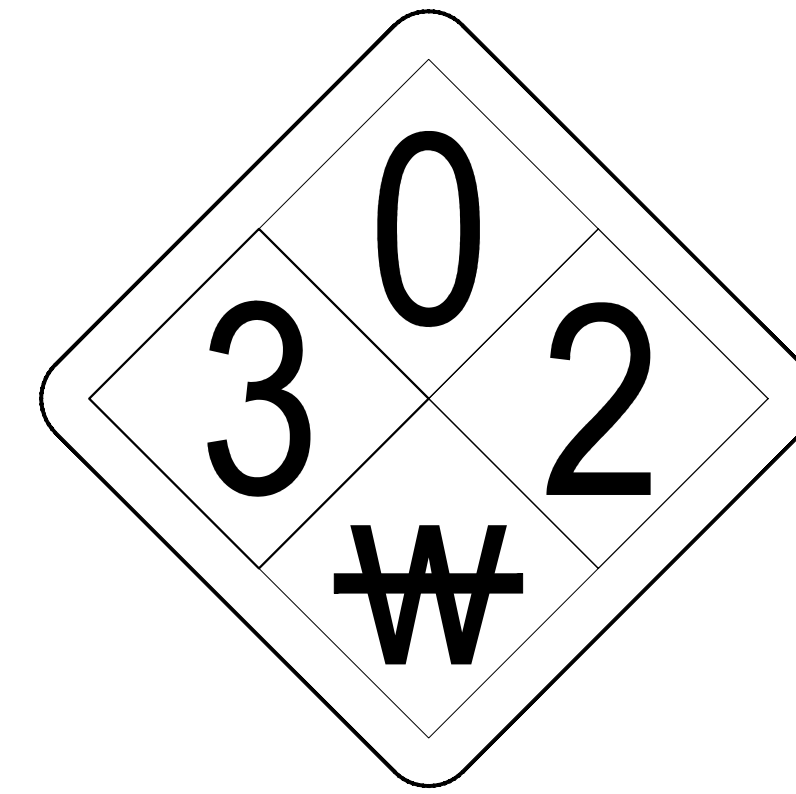
STAY BACK 3 FEET FROM ANTENNA



ALERTING SIGN AT COMPOUND GATE  
NO SCALE



ALERTING SIGN AT DIESEL TANK  
NO SCALE



ALERTING SIGN ON SHELTER DOOR  
NO SCALE

GENERAL SIGNAGE GUIDELINES

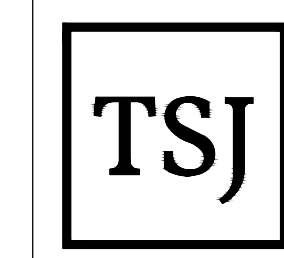
Structure Type	INFO SIGN #1	INFO SIGN #2	INFO SIGN #3	INFO SIGN #4	INFO SIGN #5	STRIPING	NOTICE SIGN	CAUTION SIGN
<b>Towers</b>								
Monopole/Monopine/Monopalm	entrance gates, shelter doors OR on the outdoor cabinets	climbing side of the Tower	On backside of Antennas	On the side of Antennas	On the shelter door or on one outdoor equipment cabinet			At the height of the first climbing step, min. 9ft above ground
SCE Towers/ Towers with high voltage	entrance gates, shelter doors OR on the outdoor cabinets	climbing side of the Tower	On backside of Antennas	On the side of Antennas	On the shelter door or on one outdoor equipment cabinet			At the height of the first climbing step, min. 9ft above ground
Light Poles / Flag Poles	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no less than 9ft above ground	On backside of Antennas	On the side of Antennas	On the shelter door or on one outdoor equipment cabinet			
Utility Wood Poles (JPA)	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no less than 9ft above ground	On backside of Antennas	On the side of Antennas	On the shelter door or on one outdoor equipment cabinet		If GP max value of MPE at antenna level is: 0-99%: Notice sign; over 99%: Caution sign at no less than 3ft below antenna and 9ft above ground	
Microcells mounted on non-JPA poles	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no less than 9ft above ground	On backside of Antennas	On the side of Antennas	On the shelter door or On one outdoor equipment cabinet		Notice or Caution sign at no less than 9ft above ground; only if the exposure exceeds 90% of the General Public exposure at 6ft above ground or at outside surface of adjacent buildings	
<b>Rooftops</b>								
At all access points to the roof	X							
On Antennas	X		X	X				
Concealed Antennas	X	X						
antennas mounted facing outside the building	X	X						
antennas on support structure	X	X						
Roofview Graph:								
Radiation area is within 3ft from antenna	X	adjacent to each antenna						either Notice or Caution sign (based on Roofview results) at antennas/barrier
Radiation area is beyond 3ft from antenna	X	adjacent to each antenna				diagonal, yellow striping as to Roofview graph		
<b>Church Steeples</b>								
Access to steeple		adjacent to antennas if antennas are concealed	On backside of Antennas	On the side of Antennas	On the shelter door or On one outdoor equipment cabinet			Caution sign at the antennas
<b>Water Stations</b>								
Access to ladder		adjacent to antennas if antennas are concealed	On backside of Antennas	On the side of Antennas	On the shelter door or On one outdoor equipment cabinet			Caution sign beside Info sign #1, min. 9ft above ground

Notes for Rooftop sites:

- Either NOTICE or CAUTION signs need to be posted at each sector as close as possible to: the outer edge of the striped off area or the outer antennas of the sector.
- If Roofview shows: only blue = Notice Sign, blue and yellow = Caution Sign, only yellow = Caution Sign to be installed.
- Should the required striping area interfere with any structures or equipment (A/C, vents, roof hatch, doors, other antennas, dishes, etc.), please notify AT&T to modify the striping area, prior to starting the work

SIGNAGE GUIDELINES CHART  
NO SCALE

CONSULTANT



TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

APPLICANT



SITE INFORMATION

CVL06558  
PONY EXPRESS  
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DESIGN RECORD

REVISIONS			
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PROFESSIONAL STAMP



DATE STAMPED: 02/01/2023

SHEET TITLE

TYPICAL SIGNAGE  
DETAILS

SHEET

T-3

connect@alpinepowersystems.com  
877-993-8855

**ALPINE POWER SYSTEMS**  
TELECOMMUNICATIONS

PowerSafe<sup>®</sup> SBS Front Terminal  
Telecommunications NEBS<sup>™</sup> Certified

### Battery Range Summary

The PowerSafe<sup>®</sup> SBS Front Terminal battery further extends the technical leadership of PowerSafe SBS battery product line: not only do PowerSafe SBS Front Terminal monoblocks retain the benefits typically associated with Thin Plate Pure Lead (TPPL) technology such as long life, high energy density, superior shelf life, etc., they also deliver exceptional cyclic performance in both float and fast charge applications, even in the hottest and harshest operating environments.

Where conventional Valve Regulated Lead Acid (VRLA)/Absorbed Glass Mat (AGM) batteries struggle to cope with harsh conditions and frequent power outages, cutting edge (TPPL) technology makes PowerSafe 12V batteries the perfect solution for the challenging operating conditions of today's telecommunication networks.

PowerSafe SBS batteries are designed to high quality standards and a unique manufacturing methods means superior energy and power, high performance and proven reliability, there is no substitute to PowerSafe SBS Front Terminal batteries.

#### Features and Benefits

- Capacity range 31-190Ah
- 12V monoblock configurations
- Multiple string configurations available
- Two year shelf life
- SF4228 compliant
- Proven long service life
- High energy density and cycling capability



Publication No: US-SBSF-RS-004 - January 2014

### Construction

- Robust positive plates are designed to prolong service life and enhance corrosion resistance
- Separators are low resistance microcorous (AGM). The electrolyte is absorbed within the AGM, preventing acid spills in case of accidental damage
- Container and cover in flame retardant UL94-V0 material, highly resistant to shock and vibration
- Terminals are stainless steel front access with top access copper alloy insert. Top and front access terminals provide maximum conductivity
- Self-regulating one way pressure relief valves prevents ingress of atmospheric oxygen

### Installation and Operation

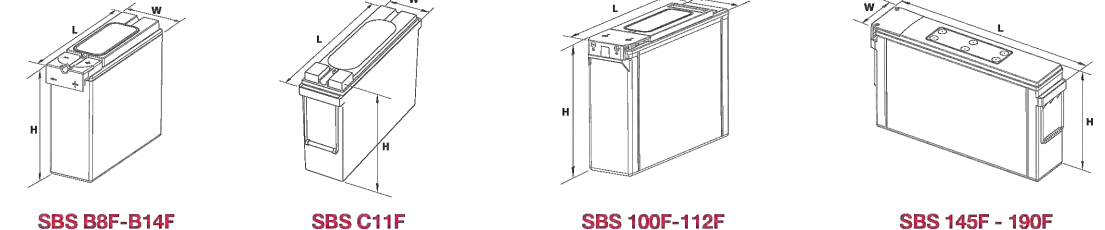
- VRLA design, reduces maintenance requirements
- Lifting handles for easy handling
- Greater than 10 year life expectancy in float service at 77°F (25°C)
- Increased active material surface area yields great cycling capability
- Operating temperature: -40°F (-40°C) to 122°F (50°C)
- Recommended temperature: 68°F (20°C) to 86°F (30°C)

### Standards

- Meets criteria for "non-spillable" batteries
- Complies with Telcordia SR-4228, Network Equipment Building System (NEBS<sup>™</sup>) Criteria Levels
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

### General Specifications

Cell Type	Nominal Capacity (Ah)		Nominal Dimensions				Weight - Unpacked kg			
	10 hr rate @ 20°C	8 hr rate @ 27°F	Length mm	Width mm	Height mm	Case				
SBS B8F	31	31	11.9	303	3.8	97	6.3	159	22.7	10.3
SBS B10F	38	38	11.9	303	3.8	97	7.2	164	28.2	12.8
SBS B14F	62	62	11.9	303	3.8	97	10.4	264	42.0	19.1
SBS C11F	92	91	16.4	417	4.1	105	10.1	256	61.6	28.0
SBS 100F	100	100	15.6	395	4.3	108	11.3	287	71.9	32.6
SBS 112F	112	112	22.1	561	4.9	125	9.0	228	80.4	41.1
SBS 146F	146	146	17.9	455	6.8	173	8.4	238	105.0	47.7
SBS 165F	165	165	17.9	455	6.8	173	10.8	273	117.4	53.3
SBS 170F	170	170	22.1	561	4.9	125	11.1	283	115.7	52.5
SBS 190F	190	190	22.1	561	4.9	125	12.4	316	132.3	60.0



connect@alpinepowersystems.com  
877-993-8855

**ALPINE POWER SYSTEMS**

Battery Services for Backup Power

- Battery Installation
- Capacity and Acceptance
- Preventative Maintenance

backup power | telecom | motive power  
www.alpinepowersystems.com

### FIRE DEPARTMENT NOTES:

- A FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
- A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FOR THE QUANTITIES ON SITE.
- A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.
- A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:
- AN APPROVED METHOD TO NEUTRALIZE SPILLED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.
- BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
- LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE FIRE INSPECTOR.
- STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH CALIFORNIA FIRE CODE REGULATIONS.
- EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING IS ADDRESSED ON.

### BATTERY ELECTROLYTE CONTENT:

NUMBER OF STRINGS:	2
BATTERIES PER STRING:	4
TOTAL BATTERIES:	8
BATTERY WEIGHT:	132.3 LBS

LEAD (60% BY WT): 79.38 LBS  
ELECTROLYTE (20% BY WT): 26.46 LBS  
ELECTROLYTE VOLUME (.07 GAL/LB): 1.85 GAL  
TOTAL ELECTROLYTE: 14.82 GAL

Form #: SDS 85302  
Revised: AG  
Supersedes: AF  
ECO #: 1002195

### ENERSYS SAFETY DATA SHEET

Form #: SDS 85302  
Revised: AG  
Supersedes: AF  
ECO #: 1002195

#### I. PRODUCT IDENTIFICATION

Chemical Trade Name (as used on label): Cylcon<sup>®</sup>, Odyssey, Genesis<sup>®</sup>, SBS, XP<sup>®</sup>, AmSafe Plus<sup>®</sup>, MILPC, Nexsys, or Large TPPL  
Chemical Family/Classification: Sealed Lead Battery

Synonyms: Sealed Lead Acid Battery, VRLA Battery

Manufacturer's Name/Address: EnerSys Energy Products Inc., 617 N. Ridgeway Drive, Warrensburg, MO 64093-9301

24-Hour Emergency Response Contact: CHEMREC DOMESTIC: 800-424-9300 CHEMREC INTL: 703-527-3877

#### II. GHS HAZARDS IDENTIFICATION

HEALTH	ENVIRONMENTAL	PHYSICAL
Acute Toxicity (Oral/Dermal/Inhalation): Category 4 Skin Corrosion/Irritation: Category 1A Eye Damage: Category 1 Reproductive: Category 1A Carcinogenicity (Lead compounds): Category 1B Carcinogenicity (acid mist): Category 1A Specific Target Organ Toxicity (repeated exposure): Category 2	Aquatic Chronic 1 Aquatic Acute 1	Explosive Chemical, Division 1.3

#### III. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Approximate % by Weight
<b>Inorganic Lead Compound:</b>		
Lead	7439-92-1	45-60
Lead Dioxide	1309-60-0	15-25
Tin	7440-31-5	0.1-0.2
<b>Sulfuric Acid Electrolyte (Sulfuric Acid/Water)</b>	7664-93-9	15-20
<b>Case Material:</b>		5-10
Polypropylene	9003-07-0	
Polystyrene	9003-53-6	
Styrene Acrylonitrile	9003-54-7	
Acrylonitrile Butadiene Styrene	9003-56-9	
Styrene Butadiene	9003-55-8	
Polyvinylchloride	9002-86-2	
Polyurethane, Hard Rubber, Polyethylene	9002-88-4	
Polyphenylene Oxide	25134-01-4	
Polycarbonate/Polyester Alloy	--	
<b>Other:</b>		
Absorbent Glass Mat	--	1-2

Page 1

### ENERSYS SAFETY DATA SHEET

Form #: SDS 85302  
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Inorganic lead and sulfuric acid electrolyte are the primary components of every battery manufactured by EnerSys Energy Products. There are no mercury or cadmium containing products present in batteries manufactured by EnerSys Energy Products.

#### IV. FIRST AID MEASURES

**Inhalation:** Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician  
Lead: Remove from exposure, gargle, wash nose and lips; consult physician.

**Ingestion:** Sulfuric Acid: Give large quantities of water; do not induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death; consult a physician  
Lead: Consult physician immediately.

**Skin:** Sulfuric Acid: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated clothing  
Lead: Wash immediately with soap and water.

**Eyes:** Sulfuric Acid and Lead: Flush immediately with large amounts of water for at least 15 minutes while lifting lids. Seek immediate medical attention if eyes have been exposed directly to acid.

#### V. FIRE FIGHTING MEASURES

**Flash Point:** N/A  
**Flammable Limits:** LEL = 4.1% (Hydrogen Gas) UEL = 74.2% (Hydrogen Gas)

**Extinguishing Media:** Carbon dioxide; foam; dry chemical. Avoid breathing vapors. Use appropriate media for surrounding fire.

**Special Fire Fighting Procedures:** If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing, gloves, face and eye protection. Note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.

**Unusual Fire and Explosion Hazards:** Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.

#### VI. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of neutralized acid to sewer. Acid must be managed in accordance with local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

#### VII. HANDLING AND STORAGE

**Handling:** Unless involved in recycling operations, do not breach the casing or empty the contents of the battery. There may be increasing risk of electric shock from strings of connected batteries. Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits. Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.

**Storage:** Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat. Keep away from metallic objects which could bridge the terminals on a battery and create a dangerous short-circuit.

**Charging:** There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas. Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby. Wear face and eye protection when near batteries being charged.

#### VIII. EXPOSURE CONTROL/PERSONAL PROTECTION

**Exposure Limits (mg/m<sup>3</sup>):** Note: N.E. = Not Established

INGREDIENTS (Chemical/Common Names)	OSHA PEL	ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
Lead and Lead Compounds (inorganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)
Tin	2	2	2	2	2	NE
Sulfuric Acid Electrolyte	1	0.2	1	1	0.2	0.05 (c)
Polypropylene	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Polystyrene	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Styrene Acrylonitrile	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Acrylonitrile Butadiene	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Styrene Butadiene	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Styrene	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Polyvinylchloride	N.E.	N.E.	N.E.	N.E.	1	0.25

### ENERSYS SAFETY DATA SHEET

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Properties Listed Below are for Electrolyte:	Boiling Point:	203 - 240° F	Specific Gravity (D20 = 1):	1.215 to 1.350
Melting Point:	N/A	Vapor Pressure (mm Hg):	10	
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1	
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A	
pH: 1 to 2	Flash Point:		(Below room temperature (as hydrogen gas)	
LEL (Lower Explosive Limit):	4.1% (Hydrogen)	UEL (Upper Explosive Limit):	74.2% (Hydrogen)	

**Appearance and Odor:** Manufactured article; no apparent odor.  
Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.

#### IX. STABILITY AND REACTIVITY

**Stability:** Stable X, Unstable  
**This product is stable under normal conditions at ambient temperature**  
**Conditions To Avoid:** Prolonged overcharge; sources of ignition

**Incompatibility: (Materials to avoid)** Sulfuric Acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas.  
Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen and reducing agents.

**Hazardous Decomposition Products:** Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.  
Lead Compounds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.

**Hazardous Polymerization:** Will not occur.

#### X. TOXICOLOGICAL INFORMATION

**Routes of Entry:** Sulfuric Acid: Harmful by all routes of entry.  
Lead Compounds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapor or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.

**Inhalation:** Sulfuric Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.  
Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.

**Ingestion:** Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.  
Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.

**Skin Contact:** Sulfuric Acid: Severe irritation, burns and ulceration.  
Lead Compounds: Not absorbed through the skin.

**Eye Contact:** Sulfuric Acid: Severe irritation, burns, cornea damage, and blindness.

Page 3

CONSULTANT

**TSJ**

TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

APPLICANT

**at&t**  
mobility corp.

SITE INFORMATION

**CVL06558**  
PONY EXPRESS  
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REGISTERED PROFESSIONAL ENGINEER  
DANIEL MICHAEL CONKERT  
NO. 62543  
EXP. 12/31/23  
CIVIL  
STATE OF CALIFORNIA

DATE STAMPED: 02/01/2023

SHEET TITLE

**FIRE DEPT. NOTES, BATTERY INFO**

SHEET

**F-1**

CUP-R22-0028 Exhibit E: Site Plan



**NOTES**

APN: 101-201-080-000  
 OWNER: KAYNA WESTLEY CA LLC

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF ANY PARCEL OF LAND, NOR DOES IT IMPLY OR INFER THAT A BOUNDARY SURVEY WAS PERFORMED. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION. PROPERTY LINES AND LINES OF TITLE WERE NEITHER INVESTIGATED NOR SURVEYED AND SHALL BE CONSIDERED APPROXIMATE ONLY. NO PROPERTY MONUMENTS WERE SET.

THE EASEMENTS (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN PLOTTED BASED SOLELY ON INFORMATION CONTAINED IN THE TITLE REPORT BY: XXXX, ORDER NO. XXXXXXXX, DATED XXXX XX, XXXX. WITHIN SAID TITLE REPORT THERE ARE XXXX (XX) EXCEPTIONS LISTED, XXXX (XX) OF WHICH ARE EASEMENTS AND XXXX (XX) OF WHICH CAN NOT BE PLOTTED.

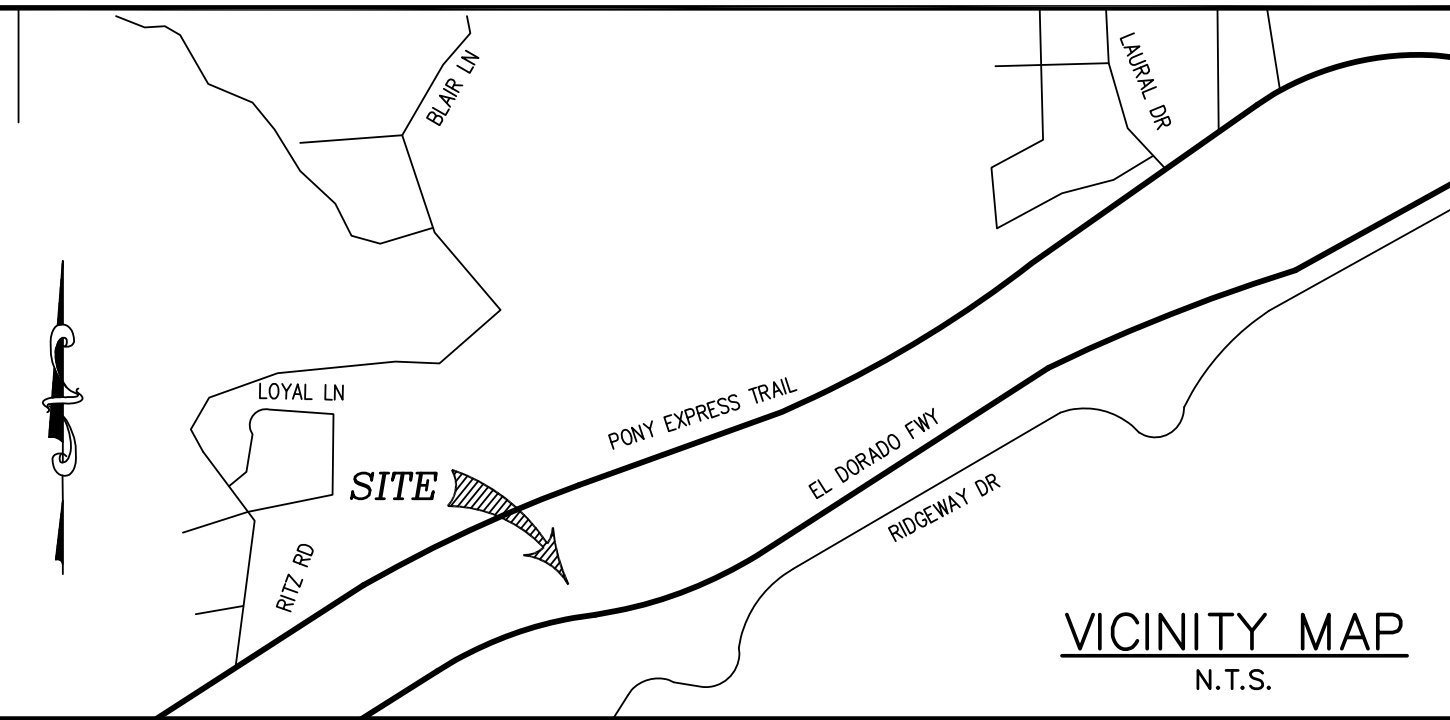
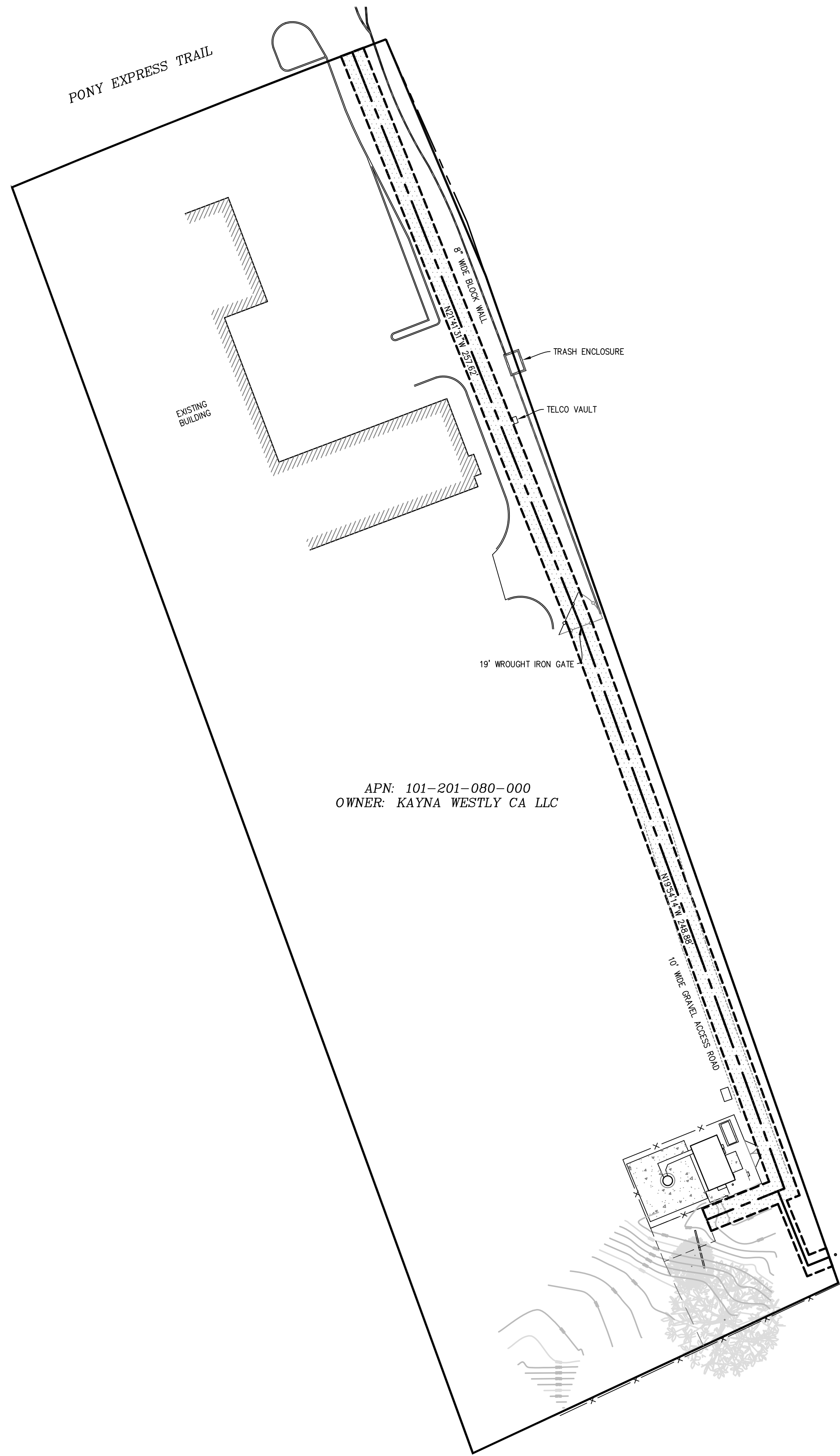
THE UNDERGROUND UTILITIES (IF ANY) THAT APPEAR ON THIS MAP HAVE BEEN LOCATED BY FIELD OBSERVATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES STATE THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD RATE MAP FOR COMMUNITY NO. 06017C, PANEL NO. 0550E, INDICATES THAT NO PANEL HAS BEEN PRINTED FOR THE SUBJECT PROPERTY'S IMMEDIATE AREA AS NOTED ON THE EL DORADO COUNTY FLOOD MAP INDEX, DATED SEPTEMBER 26, 2008 ("PANEL NOT PRINTED- ALL ZONE D")

THE LATITUDE AND LONGITUDE AT THE LOCATION AS SHOWN WAS DETERMINED BY GPS OBSERVATIONS.

LAT. 38° 45' 16.10" N. NAD 83 (38.754472°)  
 LONG. 120° 35' 53.32" W. NAD 83 (-120.598144°)  
 ELEV. 3797.4' NAVD 88 (BASIS OF DRAWING)

The information shown above meets or exceeds the requirements set forth in FAA order 8260.19D for 1-A accuracy (± 20' horizontally and ± 3' vertically). The horizontal datum (coordinates) are expressed as degrees, minutes and seconds, to the nearest hundredth of a second. The vertical datum (heights) are expressed in feet and decimals thereof and are determined to the nearest 0.1 foot.



**LEGEND**

	SITE BOUNDARY LINE
	OVERHEAD POWER LINE
	PROPERTY BOUNDARY (PER TITLE REPORT)
	EDGE OF PAVEMENT
	FENCELINE
	POWER POLE
	SPOT ELEVATION
	CONCRETE PAD

OVERALL SITE MAP  
 1" = 30'

CUP-R22-0028 Exhibit E: Site Plan



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SPACE RESERVED FOR PROFESSIONAL SEAL

REVISION			
NO.	DESCRIPTION	BY	DATE
0	PRELIM. ISSUE	CJ	02/14/22
1	REVISIONS	CJ	03/01/22
2	LEASE/ESMNT	SL	03/14/22
3	REVISION	EJ	04/27/22
4			
5			
6			
7			

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DRAWN BY: CJ  
 CHECKED BY: DA  
 DATE DRAWN: 02/14/22  
 SMITHCO JOB #: 56-1325

SITE NAME  
 CVL06558  
 PONY EXPRESS  
 ATC-COLO

SITE ADDRESS  
 5940 PONY EXPRESS TRL  
 POLLOCK PINES CA, 95726  
 EL DORADO COUNTY

SHEET TITLE  
 SITE SURVEY

FOR EXAMINATION ONLY  
 SHEET  
 C-1

**PROPOSED LEASE AREA DESCRIPTION:**

BEING A PORTION OF PARCEL THREE OF THE DEED RECORDED APRIL 4, 2019, AS DOCUMENT NO. 2019-0011388-00, EL DORADO COUNTY RECORDS, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEASTERLY MOST CORNER OF SAID PARCEL THREE, THENCE S 65°00'41" W ALONG THE SOUTH LINE OF SAID PARCEL THREE, A DISTANCE OF 61.99 FEET; THENCE LEAVING SAID SOUTH LINE, N 24°59'19" W, A DISTANCE OF 38.68 FEET TO THE POINT OF BEGINNING:

COURSE 1) THENCE N 21°59'52" W, A DISTANCE OF 15.00 FEET;  
 COURSE 2) THENCE N 68°00'08" E, A DISTANCE OF 23.00 FEET;  
 COURSE 3) THENCE S 21°59'52" E, A DISTANCE OF 5.50 FEET TO POINT 'A';  
 COURSE 4) THENCE CONTINUING S 21°59'52" E, A DISTANCE OF 9.50 FEET;  
 COURSE 5) THENCE S 68°00'08" W, A DISTANCE OF 23.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 345 SQUARE FEET, MORE OR LESS.

**PROPOSED ACCESS & UTILITY EASEMENT DESCRIPTION:**

A 10.00 FOOT WIDE STRIP OF LAND, OVER, ACROSS AND THROUGH A PORTION OF PARCEL THREE OF THE DEED RECORDED APRIL 4, 2019, AS DOCUMENT NO. 2019-0011388-00, EL DORADO COUNTY RECORDS, LYING 5.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT THE HEREINBEFORE DESCRIBED POINT 'A':

COURSE 1) THENCE N 68°00'08" E, A DISTANCE OF 31.92 FEET TO POINT 'B';  
 COURSE 2) THENCE CONTINUING N 68°00'08" E, A DISTANCE OF 2.91 FEET;  
 COURSE 3) THENCE N 19°54'14" W, A DISTANCE OF 248.88 FEET;  
 COURSE 4) THENCE N 21°41'31" W, A DISTANCE OF 257.62 FEET TO THE SOUTH LINE OF PONY EXPRESS TRAIL AND THE TERMINUS OF THIS DESCRIPTION.

**PROPOSED & UTILITY EASEMENT DESCRIPTION:**

A 4.00 FOOT WIDE STRIP OF LAND, OVER, ACROSS AND THROUGH A PORTION OF PARCEL THREE OF THE DEED RECORDED APRIL 4, 2019, AS DOCUMENT NO. 2019-0011388-00, EL DORADO COUNTY RECORDS, LYING 2.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

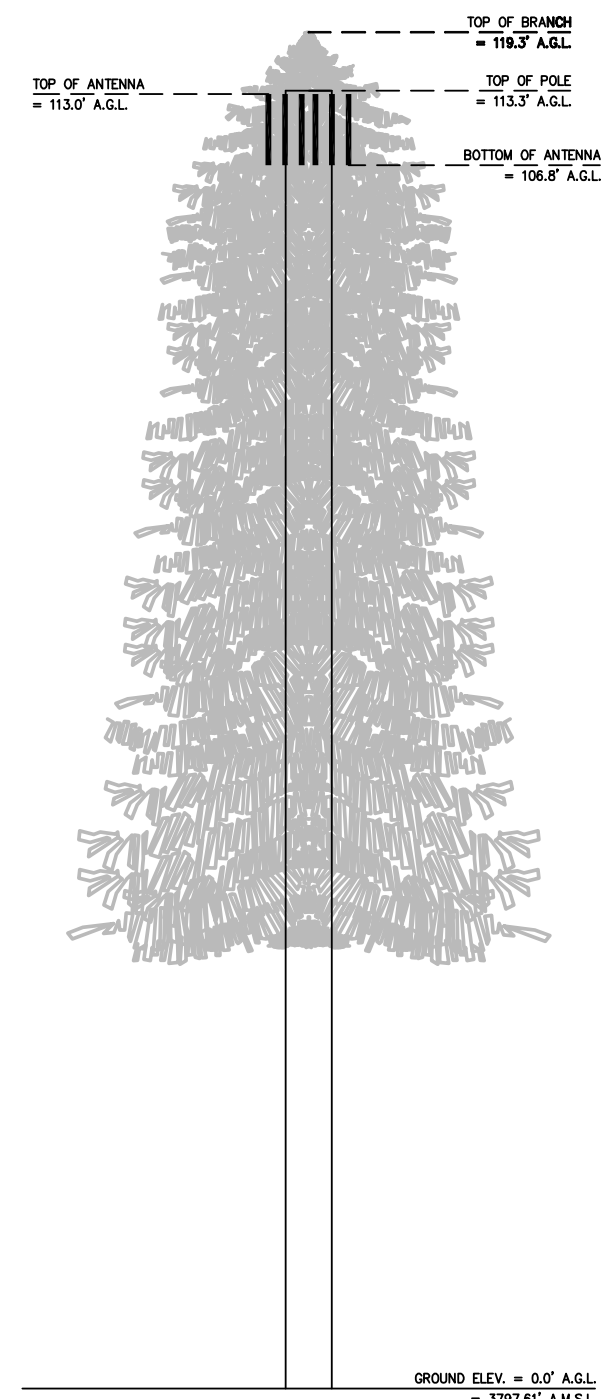
BEGINNING AT THE HEREINBEFORE DESCRIBED POINT 'B':

COURSE 1) THENCE S 21°59'37" E, A DISTANCE OF 33.46 FEET TO POINT 'C'

TOGETHER WITH A 8.00 FOOT WIDE STRIP OF LAND, OVER, ACROSS AND THROUGH A PORTION OF PARCEL THREE OF THE DEED RECORDED APRIL 4, 2019, AS DOCUMENT NO. 2019-0011388-00, EL DORADO COUNTY RECORDS, LYING 4.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

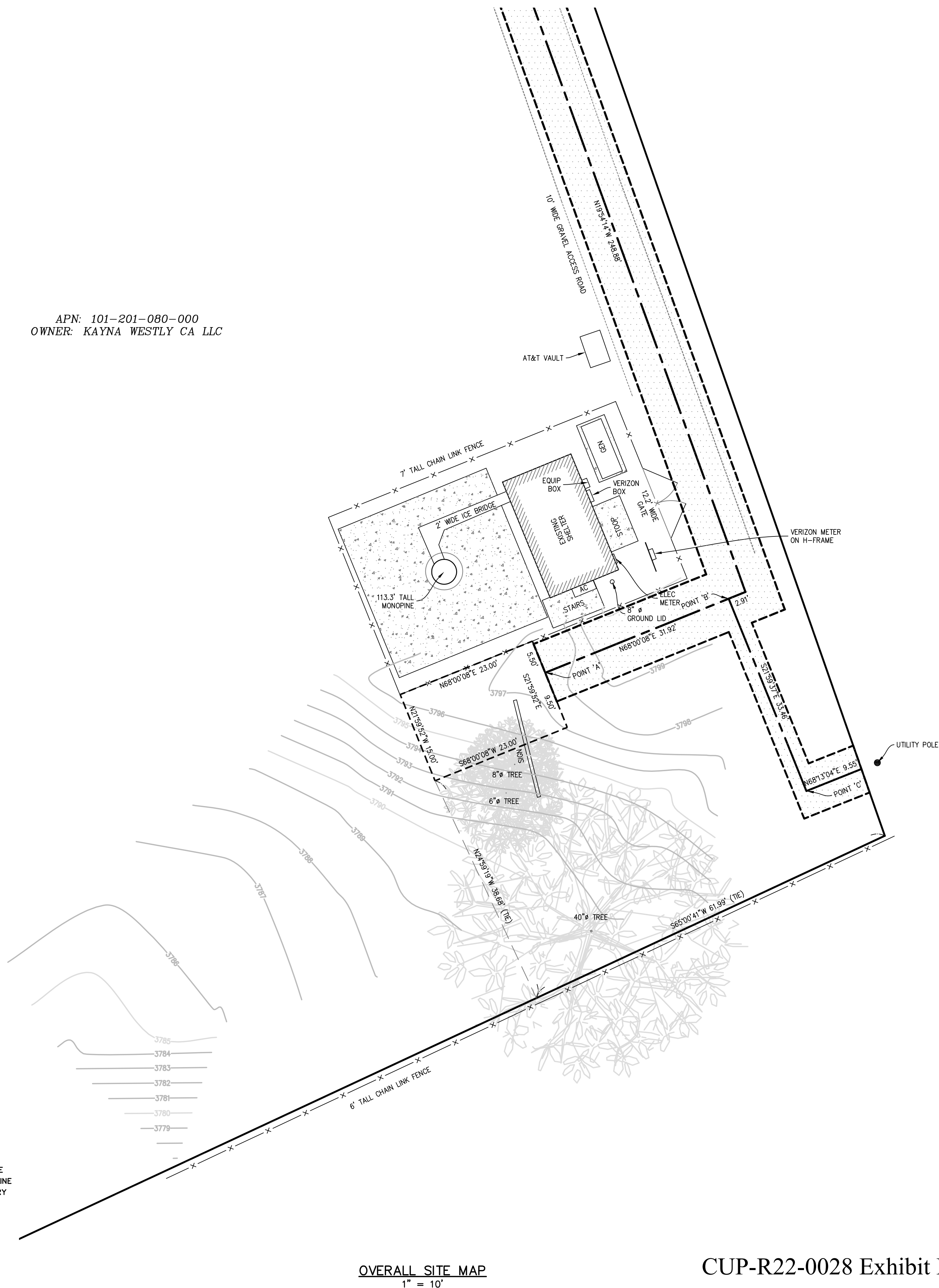
BEGINNING AT THE HEREINBEFORE DESCRIBED POINT 'C':

COURSE 1) THENCE N 68°13'04" E, A DISTANCE OF 9.55 FEET TO THE TERMINUS OF THIS DESCRIPTION.



**ELEVATION VIEW**  
1" = 16'

APN: 101-201-080-000  
 OWNER: KAYNA WESTLY CA LLC



**OVERALL SITE MAP**  
1" = 10'

**LEGEND**

- SITE BOUNDARY LINE
- OVERHEAD POWER LINE
- PROPERTY BOUNDARY (PER TITLE REPORT)
- EDGE OF PAVEMENT
- FENCELINE
- POWER POLE
- SPOT ELEVATION
- CONCRETE PAD



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SPACE RESERVED FOR PROFESSIONAL SEAL

REVISION			
NO.	DESCRIPTION	BY	DATE
0	PRELIM. ISSUE	CJ	02/14/22
1	REVISIONS	CJ	03/01/22
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4			
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7			

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DRAWN BY: CJ  
 CHECKED BY: DA  
 DATE DRAWN: 02/14/22  
 SMITHCO JOB #: 56-1325

**SITE NAME**  
 CVL06558  
 PONY EXPRESS  
 ATC-COLO

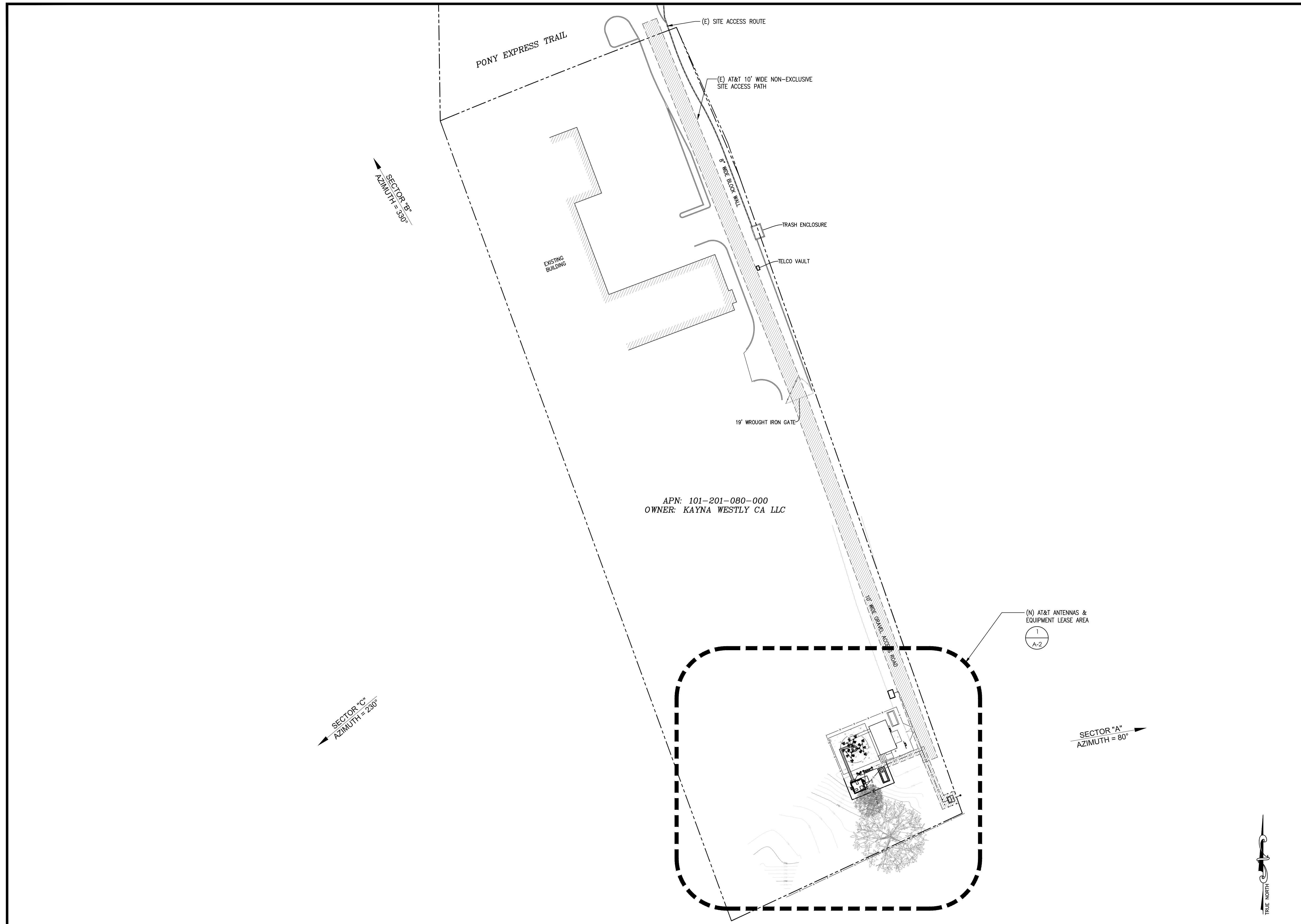
**SITE ADDRESS**  
 5940 PONY EXPRESS TRL  
 POLLOCK PINES CA, 95726  
 EL DORADO COUNTY

**SHEET TITLE**  
 SITE SURVEY

FOR EXAMINATION ONLY  
**SHEET**

C-2

CUP-R22-0028 Exhibit E: Site Plan



CONSULTANT



TSJ CONSULTING INC.  
 27128 PASEO ESPADA, #A-1521  
 SAN JUAN CAPISTRANO, CA 92675

APPLICANT




SITE INFORMATION

**CVL06558**  
 PONY EXPRESS  
 ATC-COLO  
 5940 PONY EXPRESS TRL  
 POLLOCK PINES, CA 95726

DESIGN RECORD

REVISIONS			
REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

PROFESSIONAL STAMP



DATE STAMPED: 02/01/2023

SHEET TITLE

SITE PLAN

SHEET

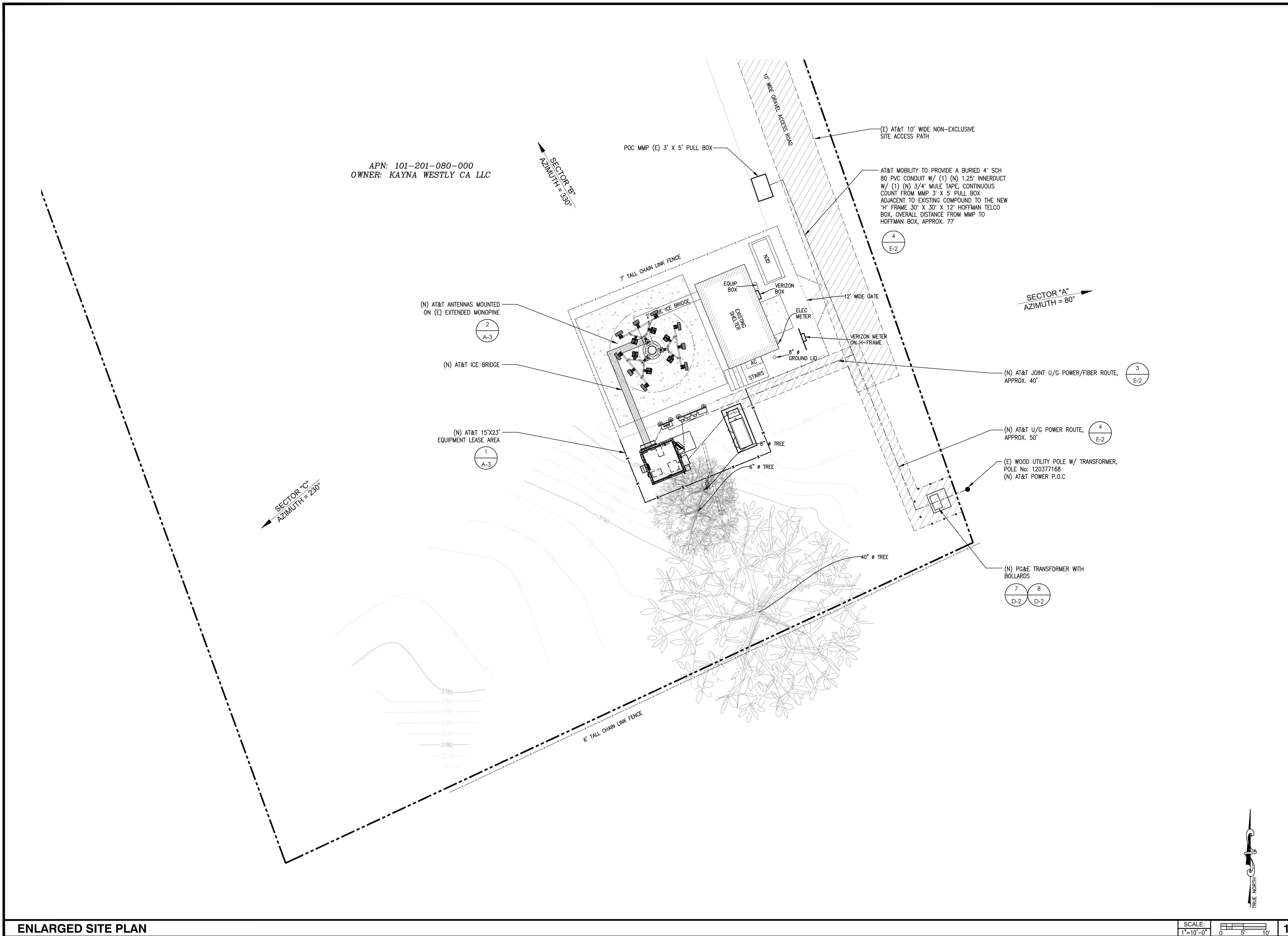
A-1

SITE PLAN

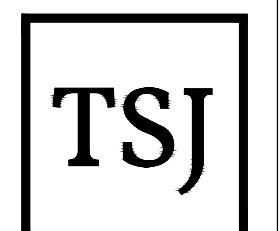


SCALE: 1"=30'-0" 0 15 30

1

CUP-R22-0028 Exhibit E: Site Plan



APN: 101-201-080-000  
 OWNER: KAYNA WESTLY CA LLC

CONSULTANT	 TSJ CONSULTING INC. 27128 PASEO ESPADA, #A-1521 SAN JUAN CAPISTRANO, CA 92675																
APPLICANT																	
SITE INFORMATION	<b>CVL06558</b> <b>PONY EXPRESS</b> <b>ATC-COLO</b> 5940 PONY EXPRESS TRL POLLOCK PINES, CA 95726																
DESIGN RECORD	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">REVISIONS</th> </tr> <tr> <th style="width: 5%;">REV</th> <th style="width: 15%;">DATE</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 20%;">BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11/22/22</td> <td>100% CD</td> <td>LE</td> </tr> <tr> <td>0</td> <td>10/18/22</td> <td>90% CD</td> <td>LE</td> </tr> </tbody> </table>	REVISIONS				REV	DATE	DESCRIPTION	BY	1	11/22/22	100% CD	LE	0	10/18/22	90% CD	LE
REVISIONS																	
REV	DATE	DESCRIPTION	BY														
1	11/22/22	100% CD	LE														
0	10/18/22	90% CD	LE														
PROFESSIONAL STAMP	 DATE STAMPED: 02/01/2023																
SHEET TITLE	<b>ENLARGED</b> <b>SITE PLAN</b>																
SHEET	<b>A-2</b>																

ENLARGED SITE PLAN

SCALE: 1"=10'-0"  
 0 5 10  
 1

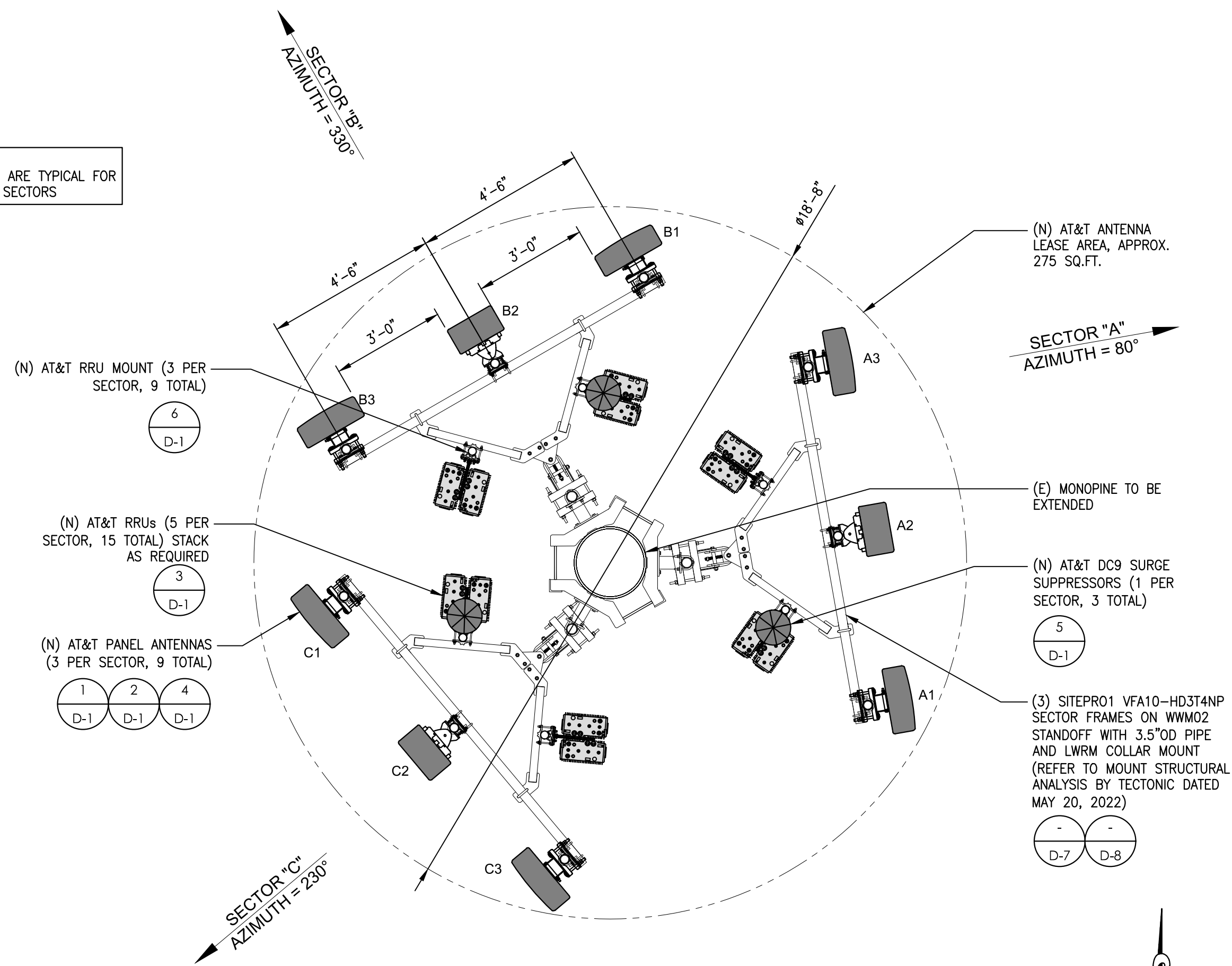
CUP-R22-0028 Exhibit E: Site Plan

SECTOR	ANTENNA MODEL	AZIMUTH	RAD CENTER (A.G.L.)	RRU MODEL	FIBER/DC LENGTH	COAX JUMPER LENGTH	DC FEEDS
A	A1	80°	130'-0"	(1) 4449 B5/B12 (1) 8843 B2/B66A	TRUNK1 60M	±8'-0"	4
	A2	80°	130'-0"	(1) 4415 B30	TRUNK1 60M	±8'-0"	1
	A3	80°	130'-0"	(1) 4478 B14 (1) 4415 B25	TRUNK1 60M	±8'-0"	2
B	B1	330°	130'-0"	(1) 4449 B5/B12 (1) 8843 B2/B66A	TRUNK2 60M	±8'-0"	4
	B2	330°	130'-0"	(1) 4415 B30	TRUNK2 60M	±8'-0"	1
	B3	330°	130'-0"	(1) 4478 B14 (1) 4415 B25	TRUNK2 60M	±8'-0"	2
C	C1	230°	130'-0"	(1) 4449 B5/B12 (1) 8843 B2/B66A	TRUNK3 60M	±8'-0"	4
	C2	230°	130'-0"	(1) 4415 B30	TRUNK3 60M	±8'-0"	1
	C3	230°	130'-0"	(1) 4478 B14 (1) 4415 B25	TRUNK3 60M	±8'-0"	2
TOTALS	(9) ANTENNAS			(15) RRU/S	(3) FIBER TRUNKS		(21) DC FEEDS

**ANTENNA RF SCHEDULE** PER RFDS V. 1.0 DATE UPDATED 10/25/2022  
ALL ANTENNAS AND EQUIPMENT SHOWN IS PRELIMINARY AND SUBJECT TO CHANGE

3

NOTE:  
DIMENSIONS ARE TYPICAL FOR ALL THREE SECTORS



NOTE:  
1. PROPOSED ANTENNAS, RRU'S AND EQUIPMENT TO BE PAINTED TO MATCH EXISTING  
2. PROPOSED MONOPINE BRANCHES NOT SHOWN FOR CLARITY

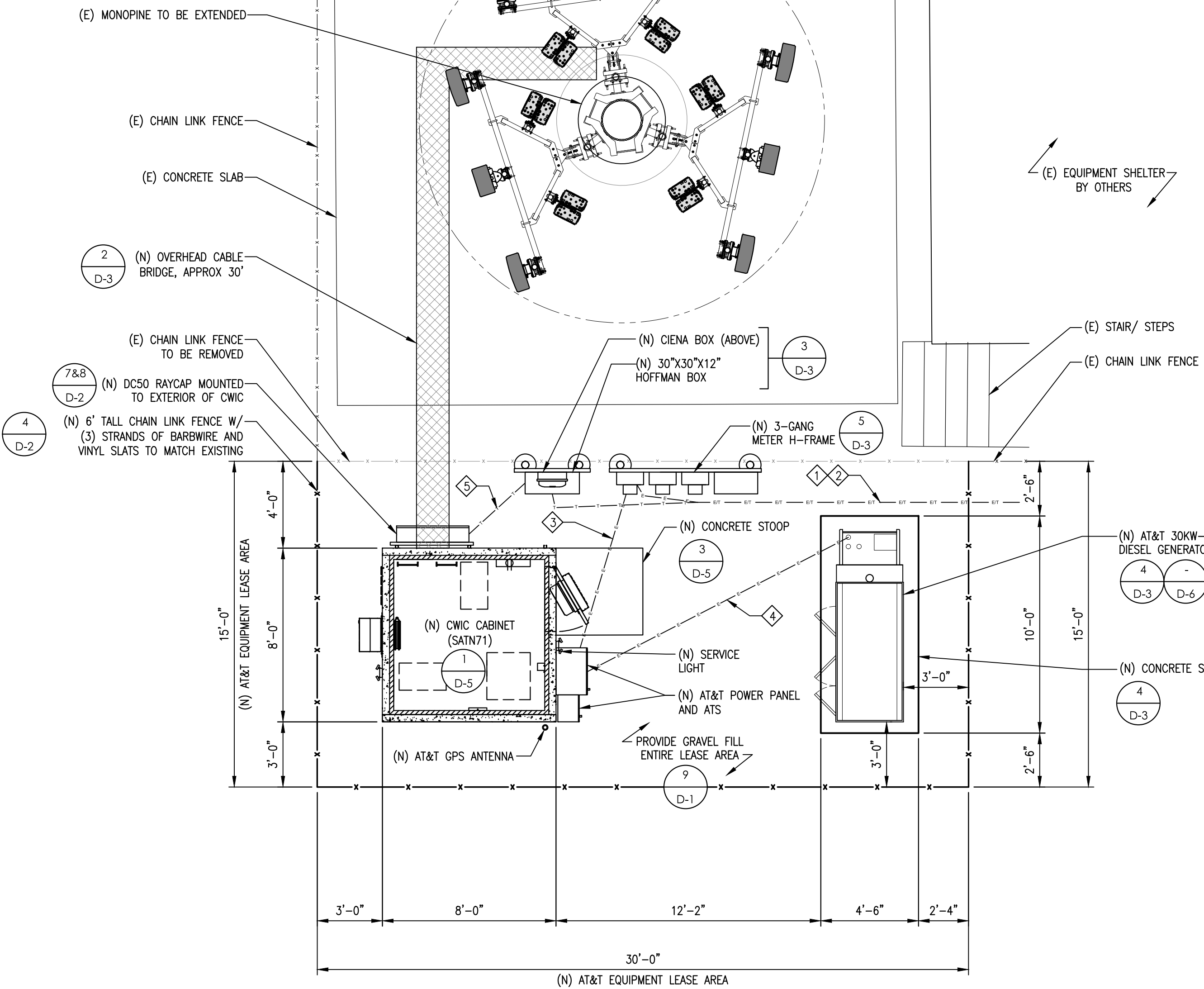
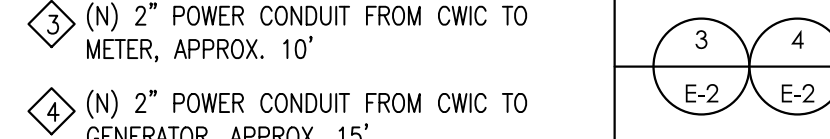
**ANTENNA LAYOUT**

SCALE: 3/8"=1'-0"  
0 1 2 3

2

**CONDUIT KEYNOTES**

- 1 (N) 2" INCOMING AT&T FIBER RUN, APPROX. 45'
- 2 (N) 4" INCOMING AT&T POWER RUN FROM POLE TO (E) TRANSFORMER, APPROX. 40'
- 3 (N) 2" POWER CONDUIT FROM CWIC TO METER, APPROX. 10'
- 4 (N) 2" POWER CONDUIT FROM CWIC TO GENERATOR, APPROX. 15'
- 5 (N) 4" FIBER CONDUIT FROM CWIC TO FIBER CABINET, APPROX. 5'
- 6 (N) 2" POWER CONDUIT FROM TRANSFORMER TO METER, APPROX. 5'



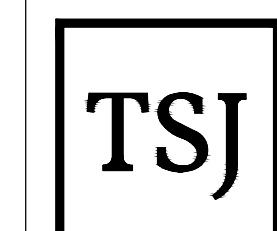
NOTE:  
1. PROPOSED ANTENNAS, RRU'S AND EQUIPMENT TO BE PAINTED TO MATCH EXISTING  
2. PROPOSED MONOPINE BRANCHES, ANTENNAS, RRU'S NOT SHOWN FOR CLARITY

**EQUIPMENT LAYOUT**

SCALE: 1/4"=1'-0"  
0 1 2 4

1

CONSULTANT



TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

APPLICANT



SITE INFORMATION

**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

DESIGN RECORD

**REVISIONS**

REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

PROFESSIONAL STAMP



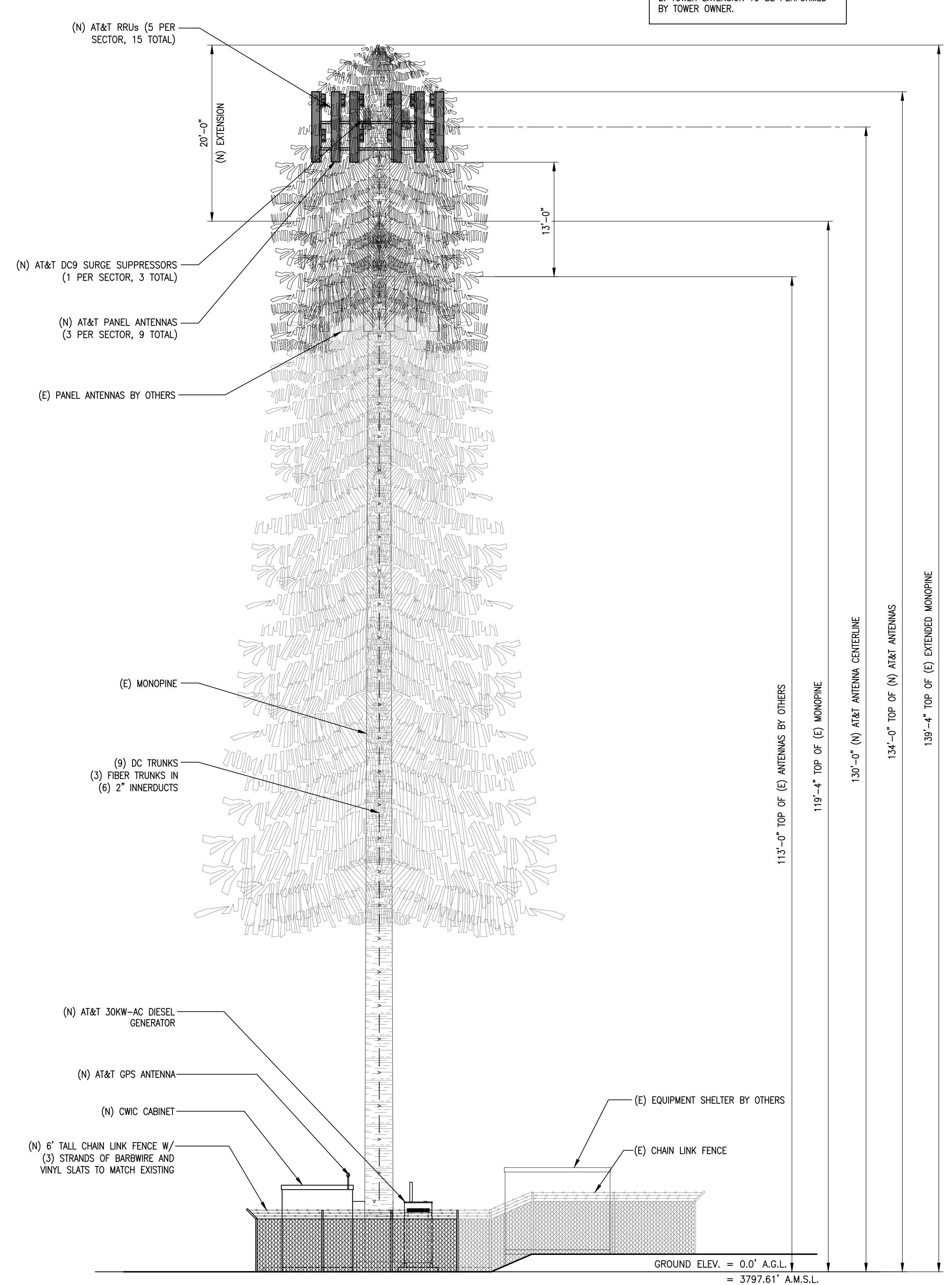
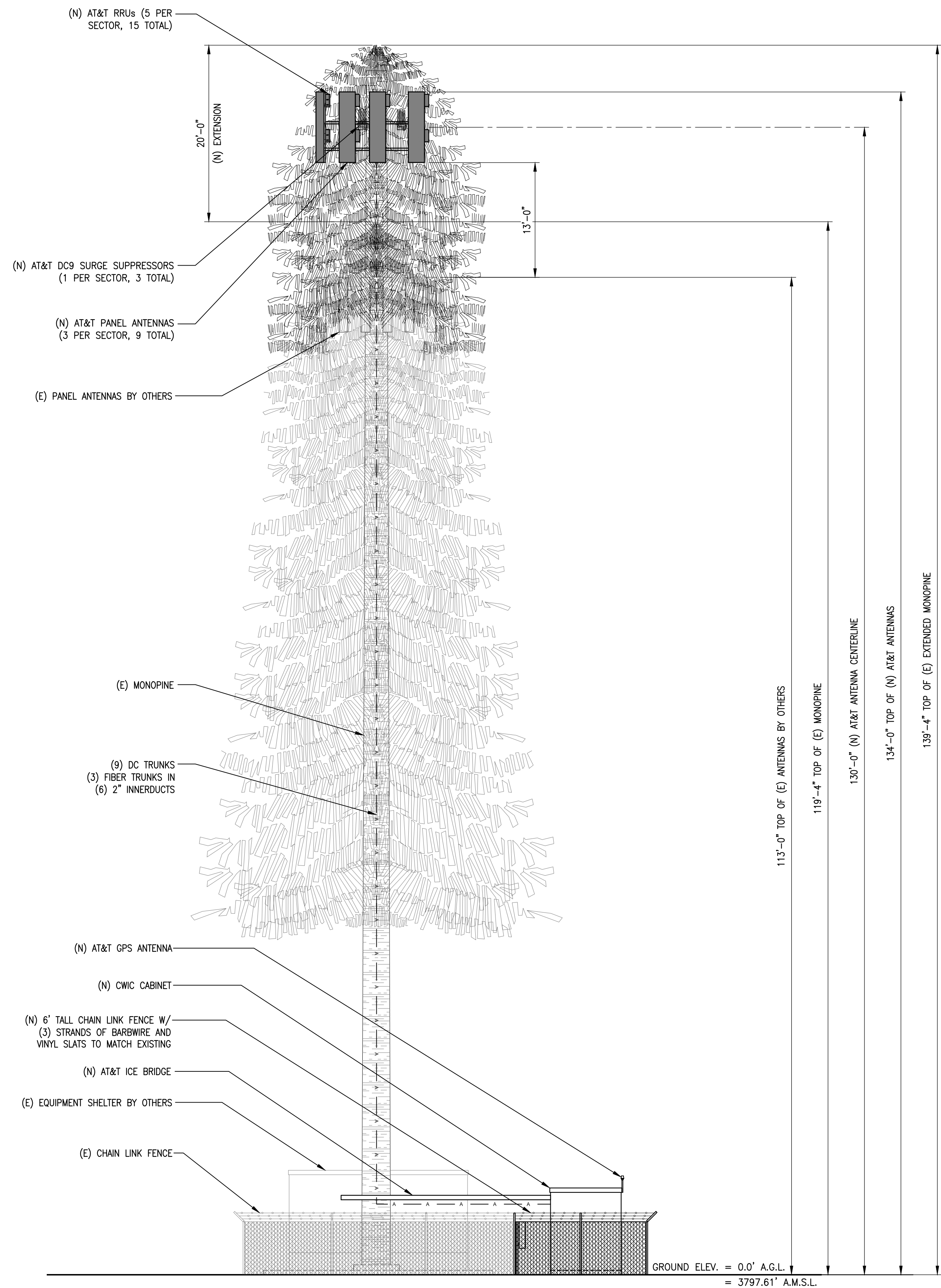
SHEET TITLE

**EQUIPMENT,  
ANTENNA LAYOUTS  
AND ANTENNA  
SCHEDULE**

SHEET

**A-3**

NOTE  
 1. ANTENNA NEED TO BE PAINTED GREEN TO MATCH EXISTING CAMO ANTENNAS.  
 2. TOWER EXTENSION TO BE PERFORMED BY TOWER OWNER.



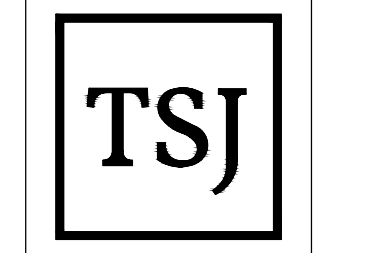
WEST ELEVATION

SOUTH ELEVATION

SCALE: 1/8"=1'-0"  
 0 4 8

SCALE: 1/8"=1'-0"  
 0 4 8

CONSULTANT



TSJ CONSULTING INC.  
 27128 PASEO ESPADA, #A-1521  
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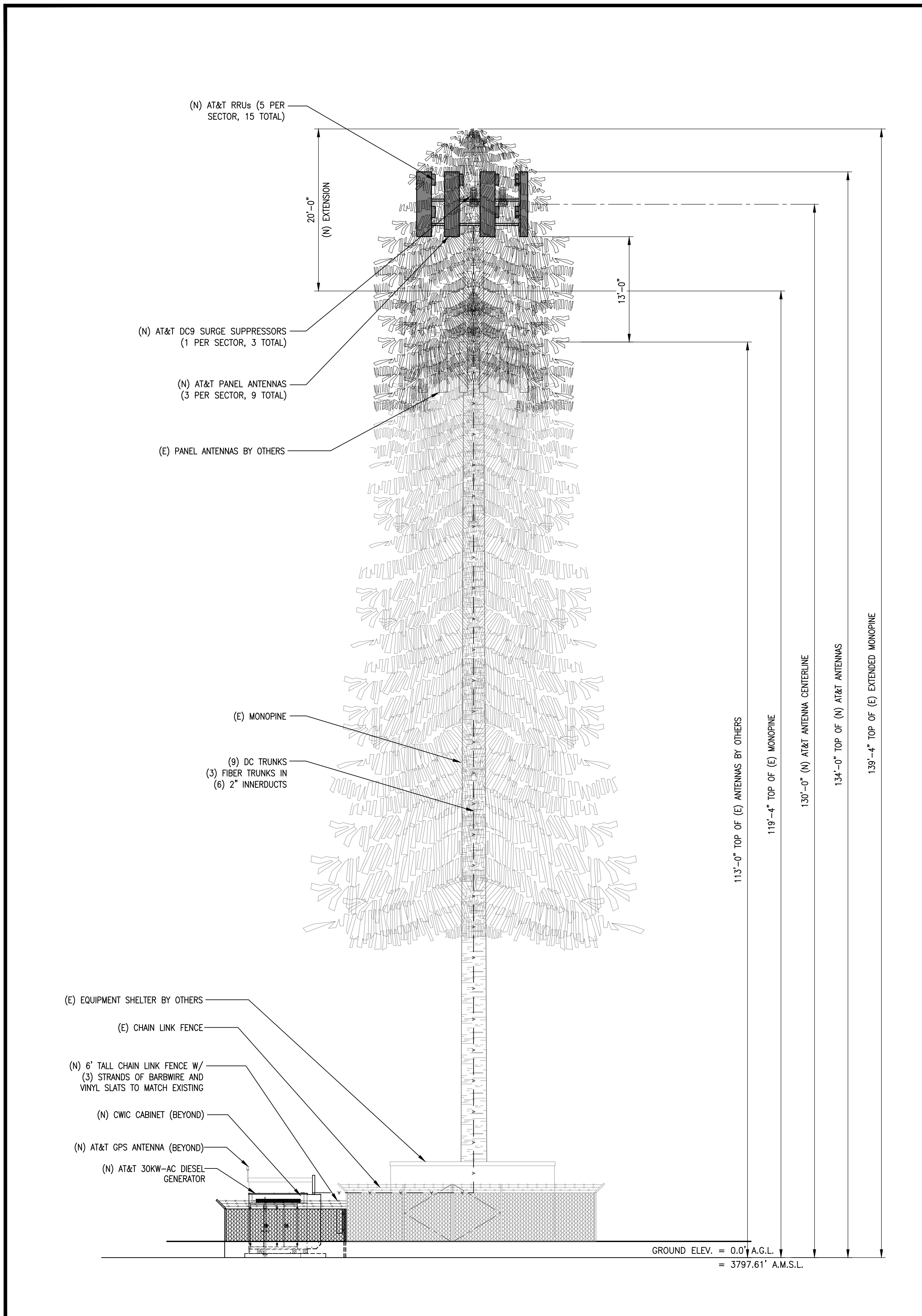


SHEET TITLE

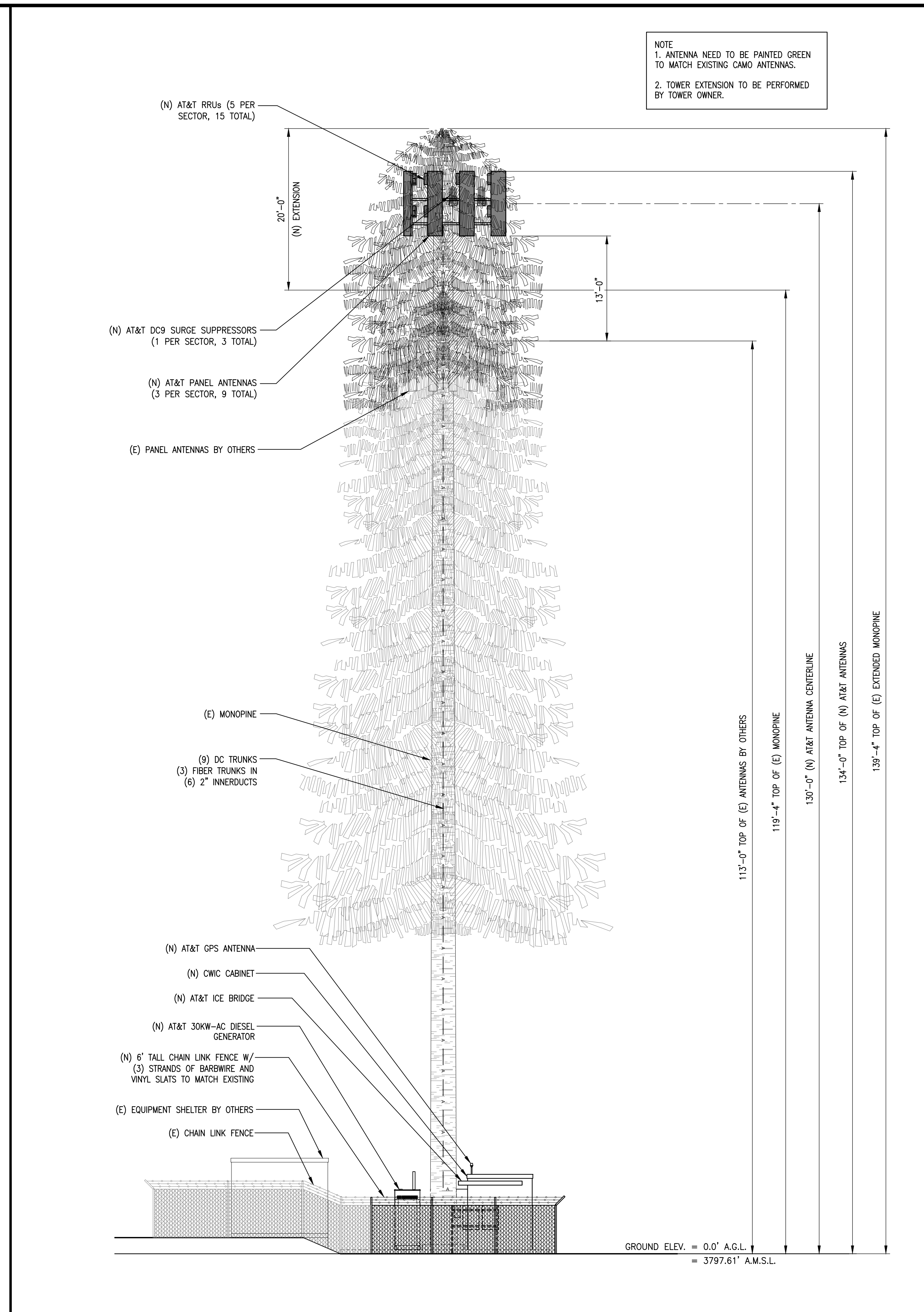
ELEVATIONS

SHEET

A-4



**EAST ELEVATION** SCALE: 1/8"=1'-0" 1



**NORTH ELEVATION** SCALE: 1/8"=1'-0" 2

NOTE  
 1. ANTENNA NEED TO BE PAINTED GREEN TO MATCH EXISTING CAMO ANTENNAS.  
 2. TOWER EXTENSION TO BE PERFORMED BY TOWER OWNER.

CONSULTANT

TSJ CONSULTING INC.  
 27128 PASEO ESPADA, #A-1521  
 SAN JUAN CAPISTRANO, CA 92675

APPLICANT

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0	10/18/22	90% CD	LE

PROFESSIONAL STAMP


DATE STAMPED: 02/01/2023

SHEET TITLE

**ELEVATIONS**

SHEET

**A-5**



**DC50-48-60-96-50F BASE OVP CABINET WITH THE FOLLOWING FEATURES**

**POWER COMPARTMENT:**

- STRIKESORB OVP PROTECTION ON EACH SUPPLY TO RETURN AND RETURN TO GROUND MODE.

**NEWSTRIKESORB25-V1-FV-SQ MODULE USED TO SAVE SPACE**

- CLASS 1 SPD PER IEC 61643-11
- 7.5 KA 10/350
- 60KA 8/20
- MEETS AT&T SPEC

**SPACE FOR (50) AM STYLE BREAKERS WITH BULLET STYLE PLUGS**

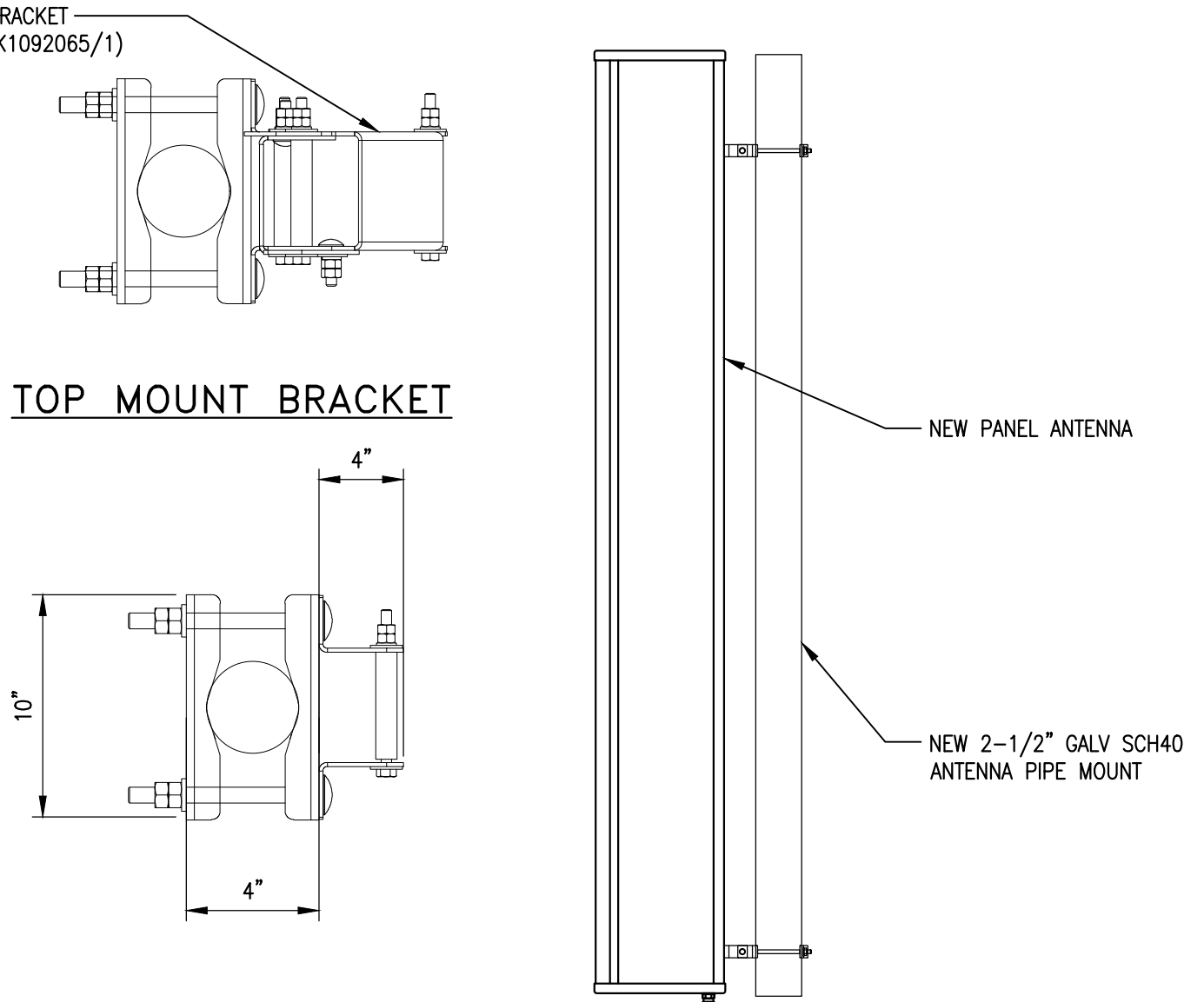
- UP TO 400A INPUT PER EACH 25-CIRCUIT DISTRIBUTION BANK (X2)
- LARGE GROUND BAR FOR DC TRUNKS
- (2) 2.5" CONDUIT FITTINGS FOR DC INPUT CONDUCTORS FROM WIC/WUC
- GLANDS FOR UP TO (17) 8AWG, 6AWG, OR 4AWG 3-PAIR DC TRUNKS

**FIBER COMPARTMENT:**

- 96 DUPLEX LC BULKHEAD WITH FIBER MANAGEMENT
- (2) 2.5" CONDUIT FITTINGS FOR FIBER INPUT FROM WIC/WUC
- (8) FIBER DIVIDER HEAD MOUNTING BRACKETS
- GLANDS FOR UP TO 6 FIBER TRUNKS TO TOWER/ROOFTOP

ATT Item Number: CEQ.54898

NEW MOUNT BRACKET (PART NO. SXK1092065/1)



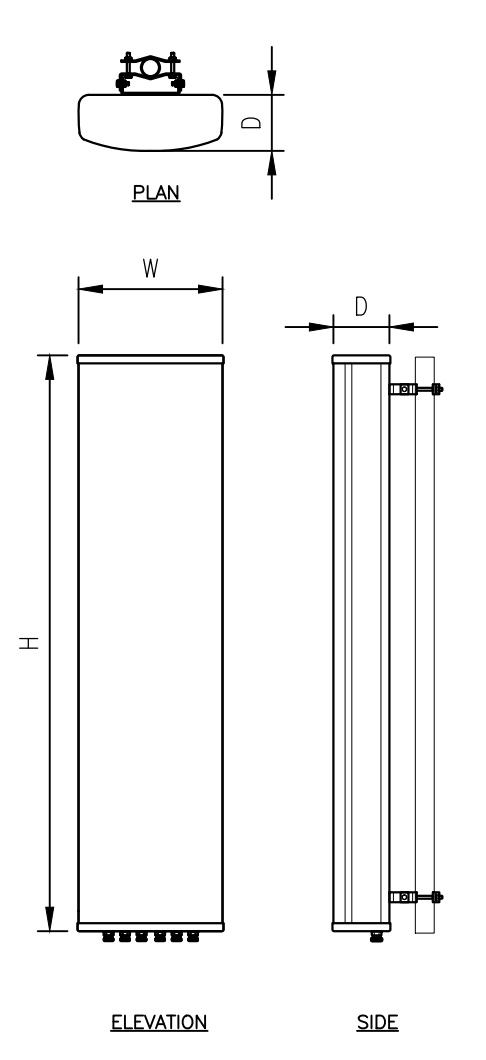
**TOP MOUNT BRACKET**

**BOTTOM MOUNT BRACKET**

NEW PANEL ANTENNA

NEW 2-1/2" GALV SCH40 ANTENNA PIPE MOUNT

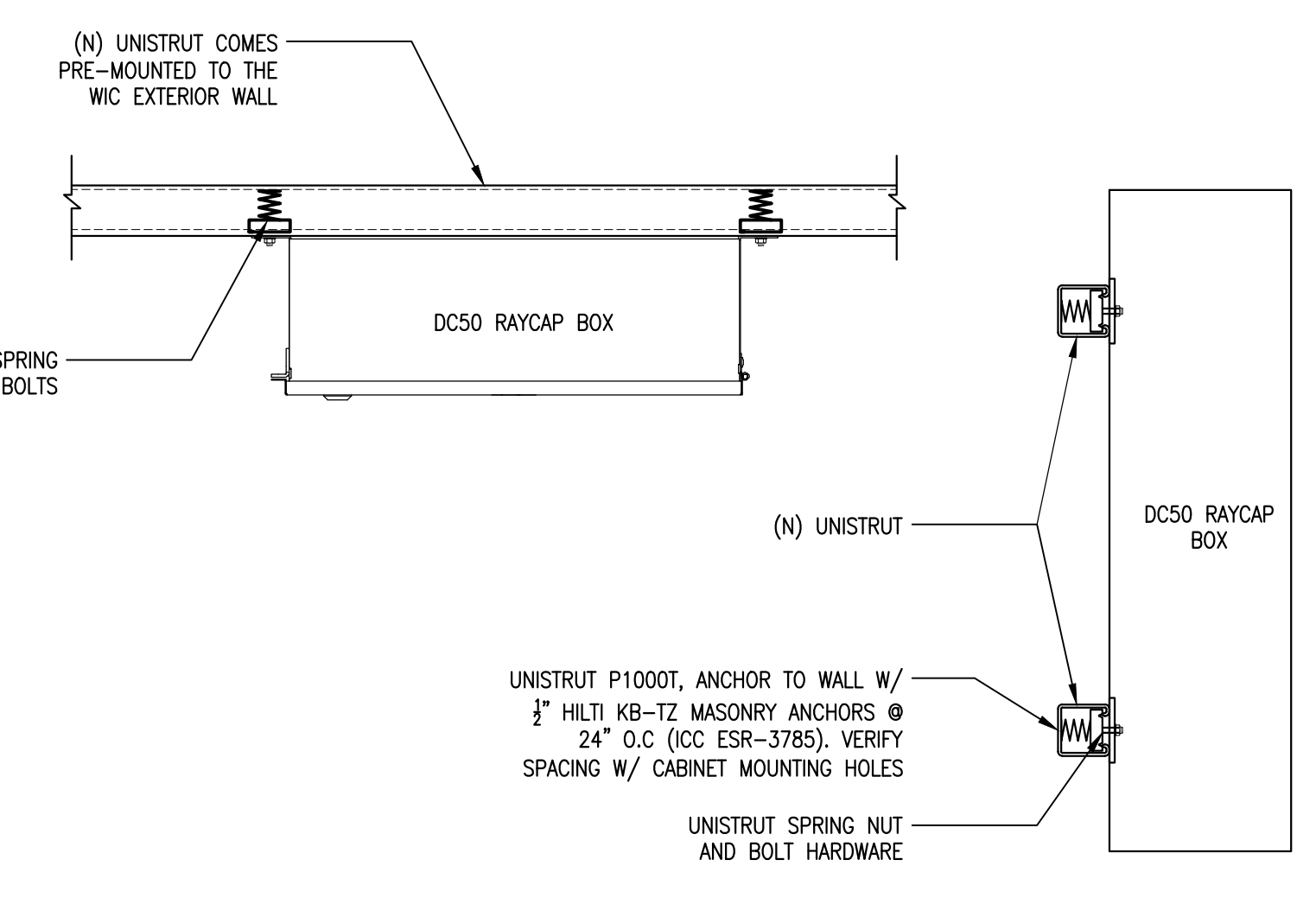
ANTENNA	HEIGHT (H)	WIDTH (W)	DEPTH (D)	WEIGHT W/O BRACKET
QD8612-3D	96"	22"	7.9"	156 LBS
QD868-2	96"	18.1"	9.6"	91 LBS
QD8612-3D	96"	22"	7.9"	156 LBS



**DC50 RAYCAP DETAIL** NOT TO SCALE **7**

**ANTENNA MOUNT DETAIL** NOT TO SCALE **4**

**ANTENNA DETAILS** NOT TO SCALE **1**



(N) UNISTRUT COMES PRE-MOUNTED TO THE WIC EXTERIOR WALL

UNISTRUT SPRING BOLTS

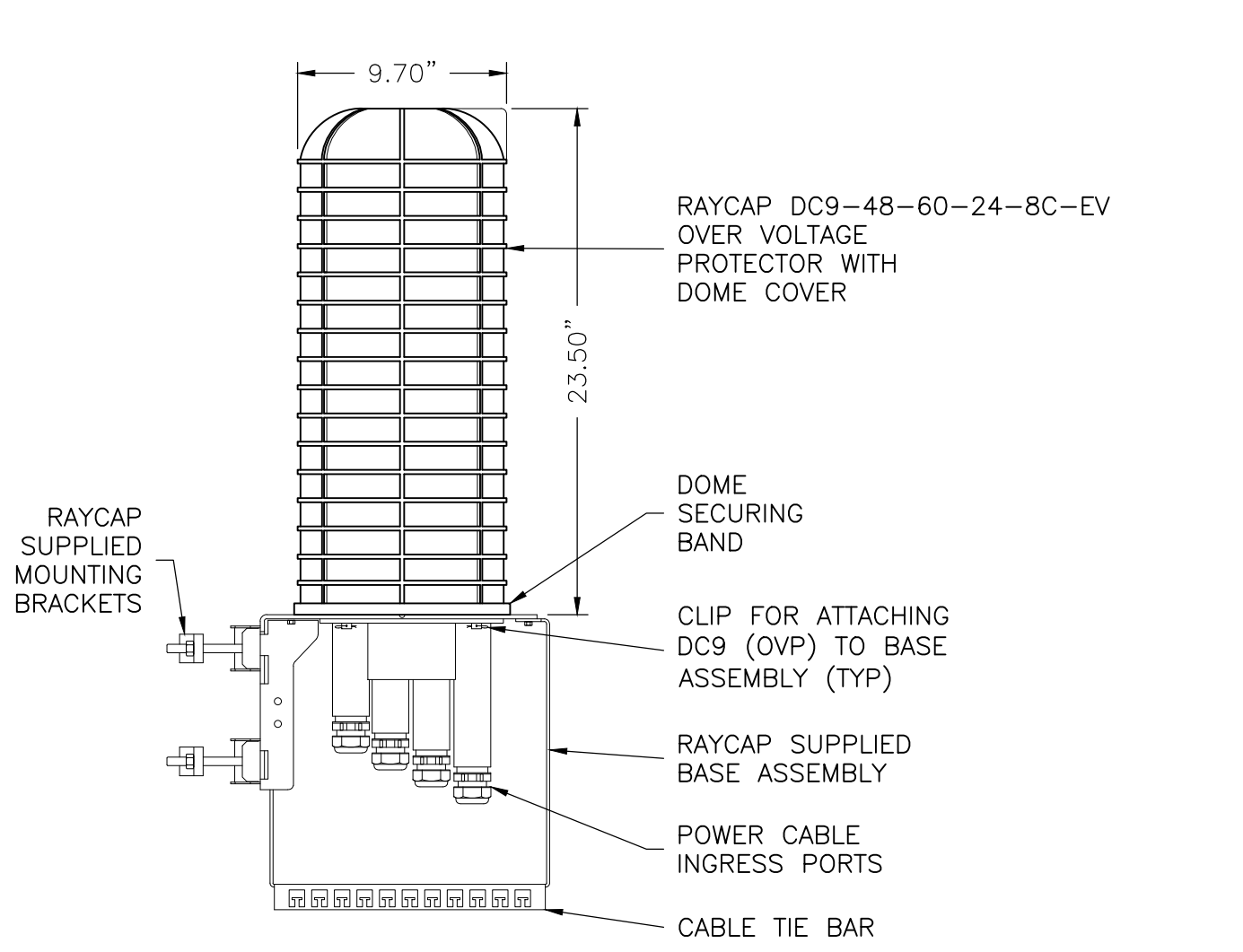
DC50 RAYCAP BOX

(N) UNISTRUT

DC50 RAYCAP BOX

UNISTRUT P1000T, ANCHOR TO WALL W/ 1/2" HILTI KB-TZ MASONRY ANCHORS @ 24" O.C (CC ESR-3785). VERIFY SPACING W/ CABINET MOUNTING HOLES

UNISTRUT SPRING NUT AND BOLT HARDWARE



RAYCAP DC9-48-60-24-8C-EV OVER VOLTAGE PROTECTOR WITH DOME COVER

9.70"

23.50"

RAYCAP SUPPLIED MOUNTING BRACKETS

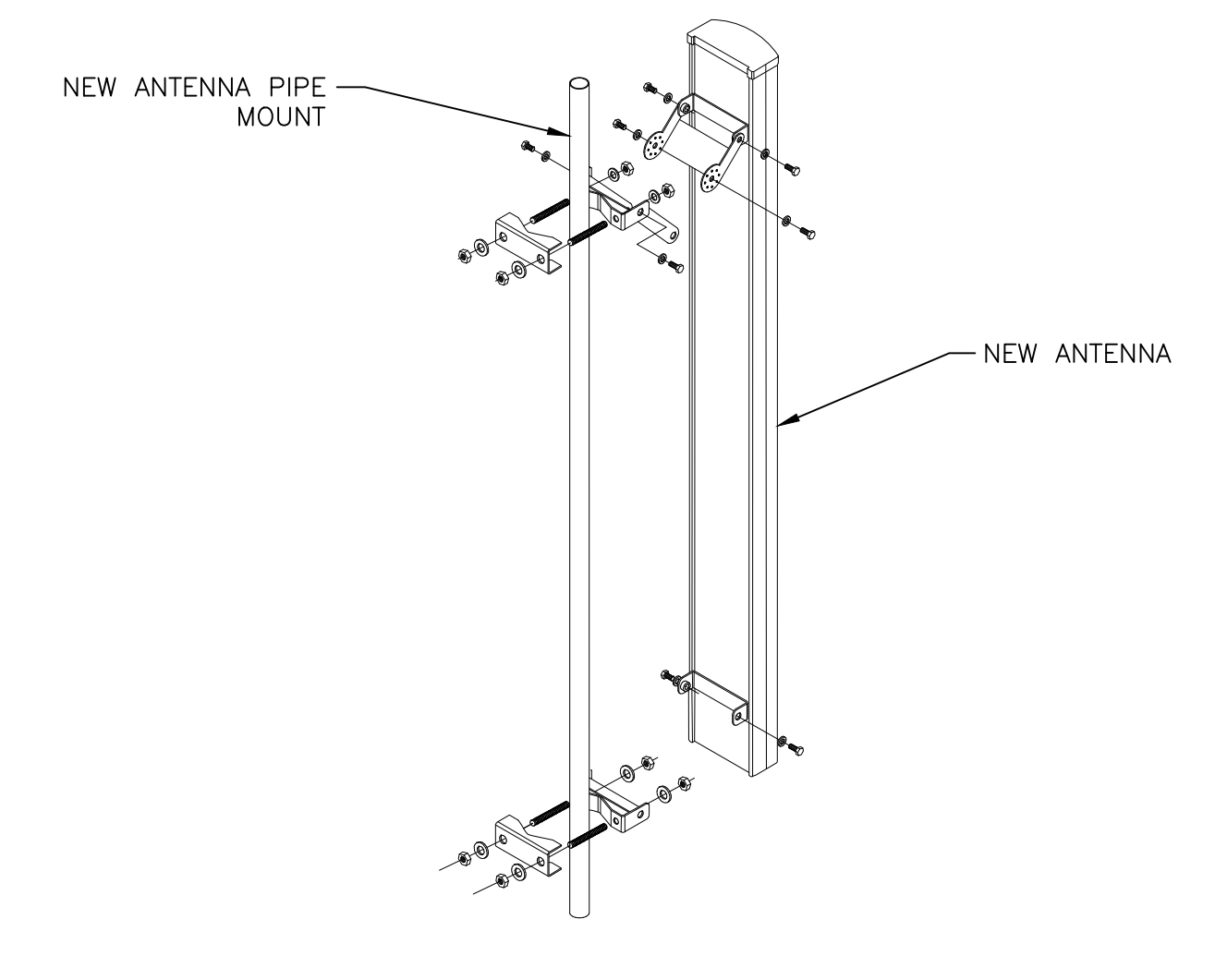
DOMES SECURING BAND

CLIP FOR ATTACHING DC9 (OVP) TO BASE ASSEMBLY (TYP)

RAYCAP SUPPLIED BASE ASSEMBLY

POWER CABLE INGRESS PORTS

CABLE TIE BAR



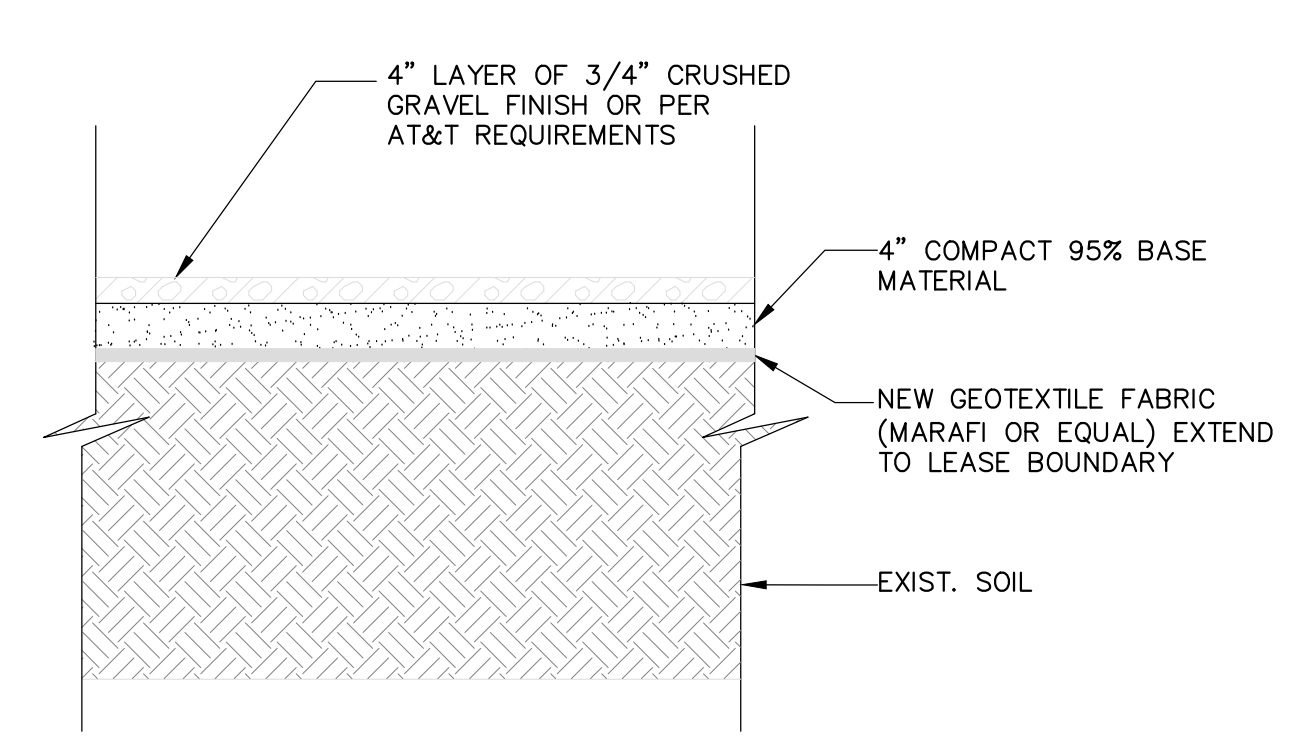
NEW ANTENNA PIPE MOUNT

NEW ANTENNA

**DC50 RAYCAP MOUNTING DETAIL** NOT TO SCALE **8**

**RAYCAP DC-9 DETAIL** NOT TO SCALE **5**

**ANTENNA MOUNT DETAIL** NOT TO SCALE **2**




4" LAYER OF 3/4" CRUSHED GRAVEL FINISH OR PER AT&T REQUIREMENTS

4" COMPACT 95% BASE MATERIAL

NEW GEOTEXTILE FABRIC (MARAFI OR EQUAL) EXTEND TO LEASE BOUNDARY

EXIST. SOIL



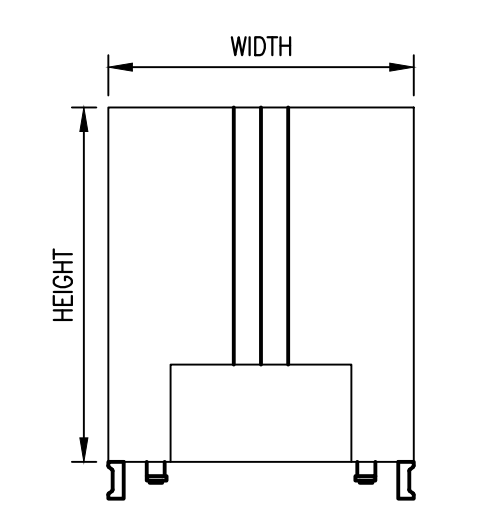
NEW DUAL RRUS BACK-TO-BACK MOUNT KIT-COMMSCOPE RR-FA2

NEW RRU

GENERAL SPECIFICATIONS	
MOUNTING TOWER TAPER	ROUND AND ANGLE LEGS NON-TAPERED/ TAPERED
HEIGHT	16.4 IN
LENGTH	18 IN
MOUNTING DIAMETER 2, MAXIMUM	6 IN
MOUNTING DIAMETER 2, MINIMUM	1.5 IN
MOUNTING DIAMETER, MAXIMUM	5.6 IN
MOUNTING DIAMETER, MINIMUM	2.4 IN
INCLUDED	CLAMPS/ HARDWARE
PACKAGING QUANTITY	2
WEIGHT, NET	36 LB

SIZE AND WEIGHT TABLE				
RRH	WIDTH	DEPTH	HEIGHT W/O CABLE MANAGEMENT COVER	WEIGHT W/O BRACKET
RRUS 4449	13.19"	9.44"	17.9"	71 LBS
RRUS 4415	13.4"	5.9"	16.5"	46 LBS
RRUS 4478	13.4"	7.7"	16.5"	59.9 LBS
RRUS 8843	13.2"	10.9"	14.9"	72 LBS

NOTE: DIMENSIONS DO NOT INCLUDE MOUNTING BRACKET AND SOLAR SHIELD.



**GRAVEL FILL DETAIL** NOT TO SCALE **9**

**RRU MOUNT DETAIL** NOT TO SCALE **6**

**RRU DETAILS** NOT TO SCALE **3**

**CONSULTANT**



TSJ CONSULTING INC.  
27128 PASO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

**APPLICANT**




**SITE INFORMATION**

**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

**DESIGN RECORD**

REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

**PROFESSIONAL STAMP**



DATE STAMPED: 02/01/2023

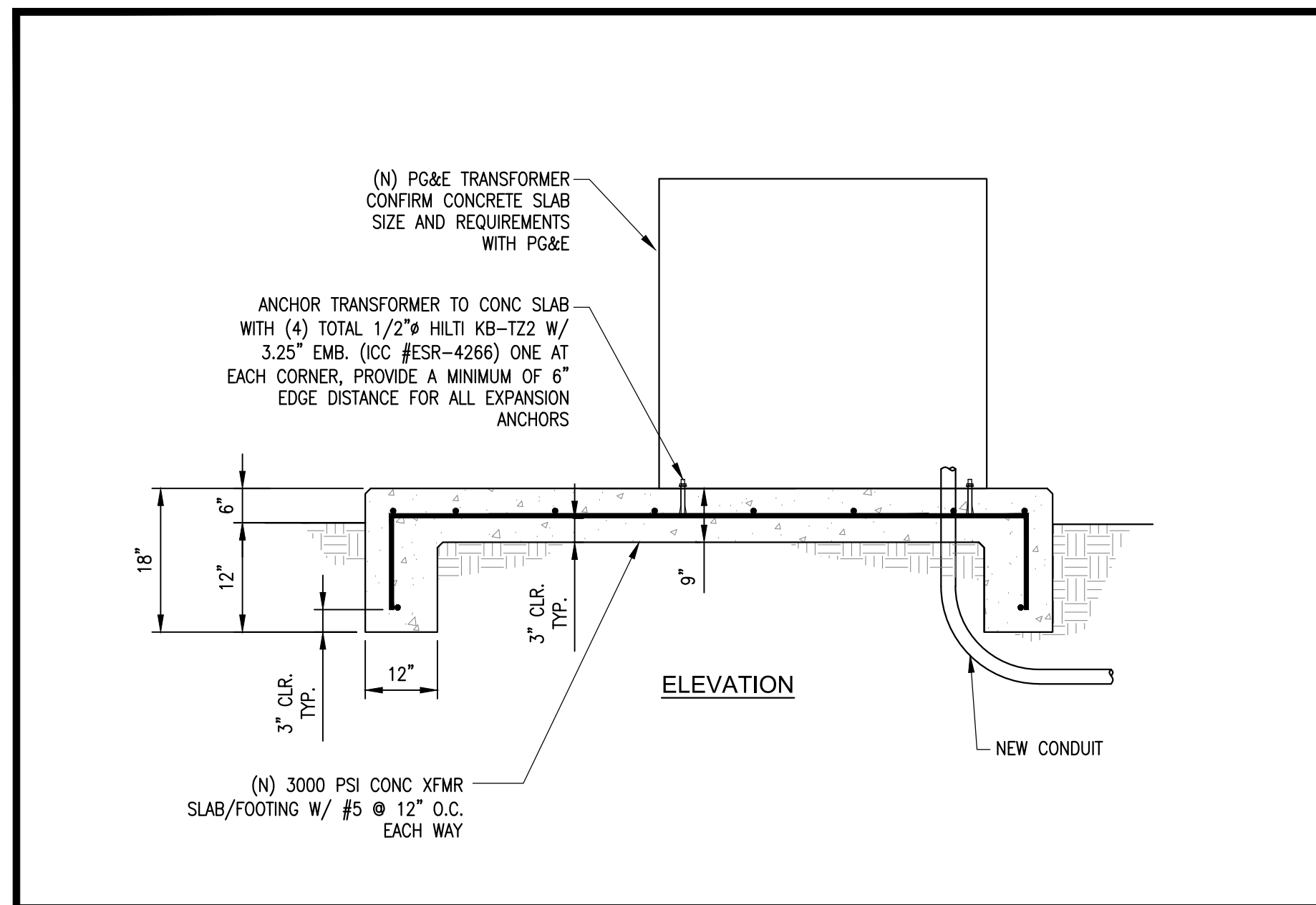
**SHEET TITLE**

**DETAILS**

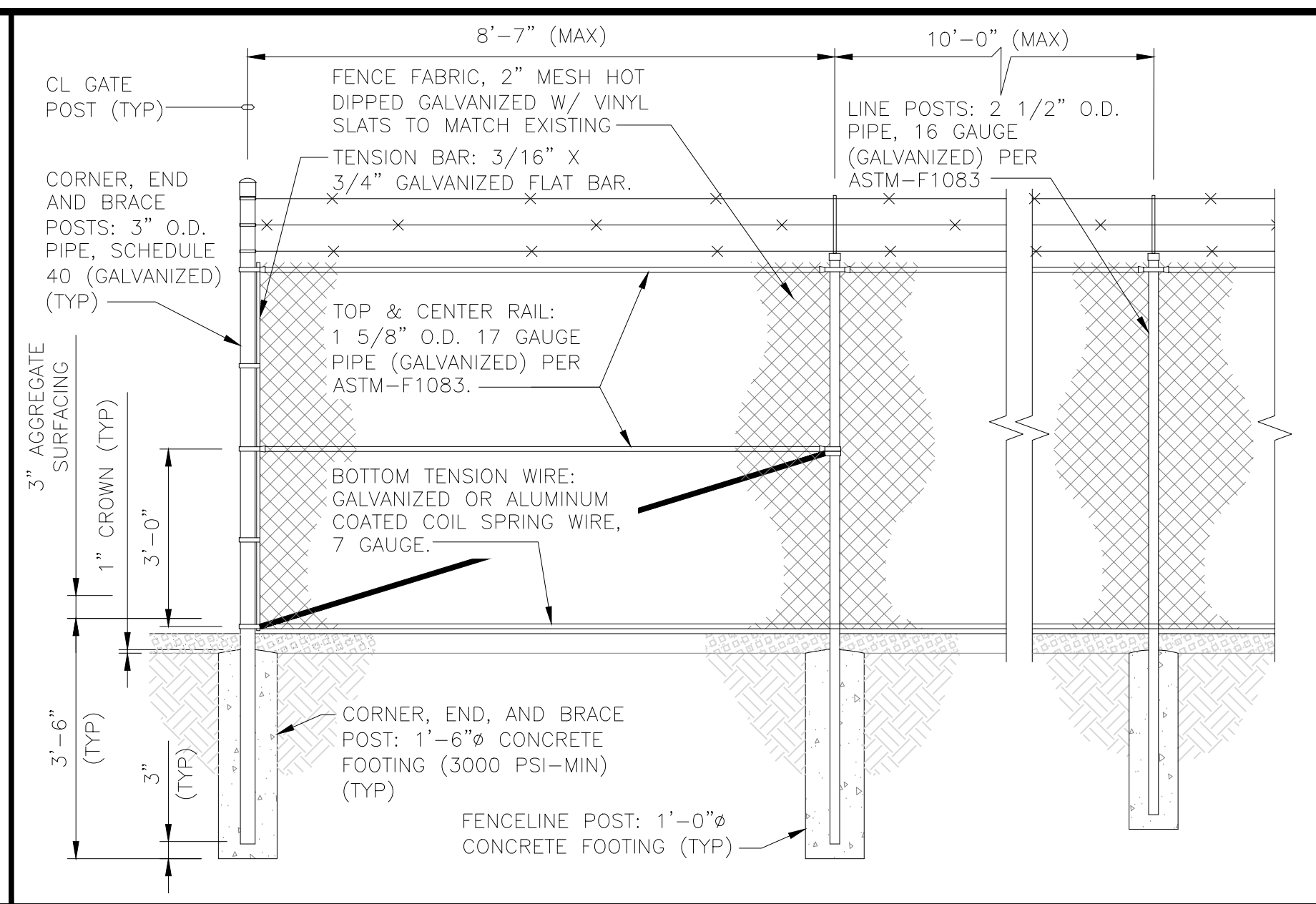
**SHEET**

**D-1**

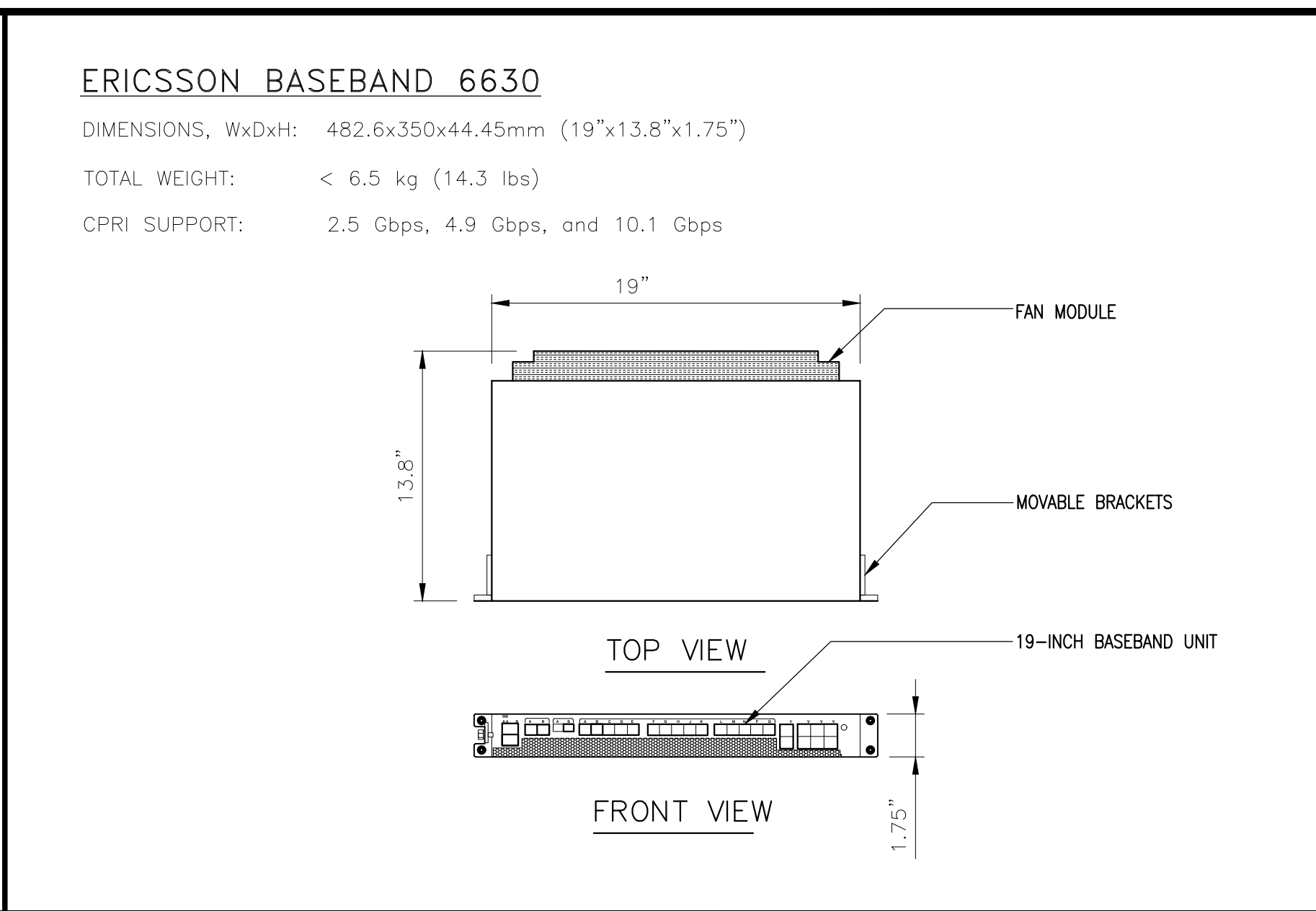




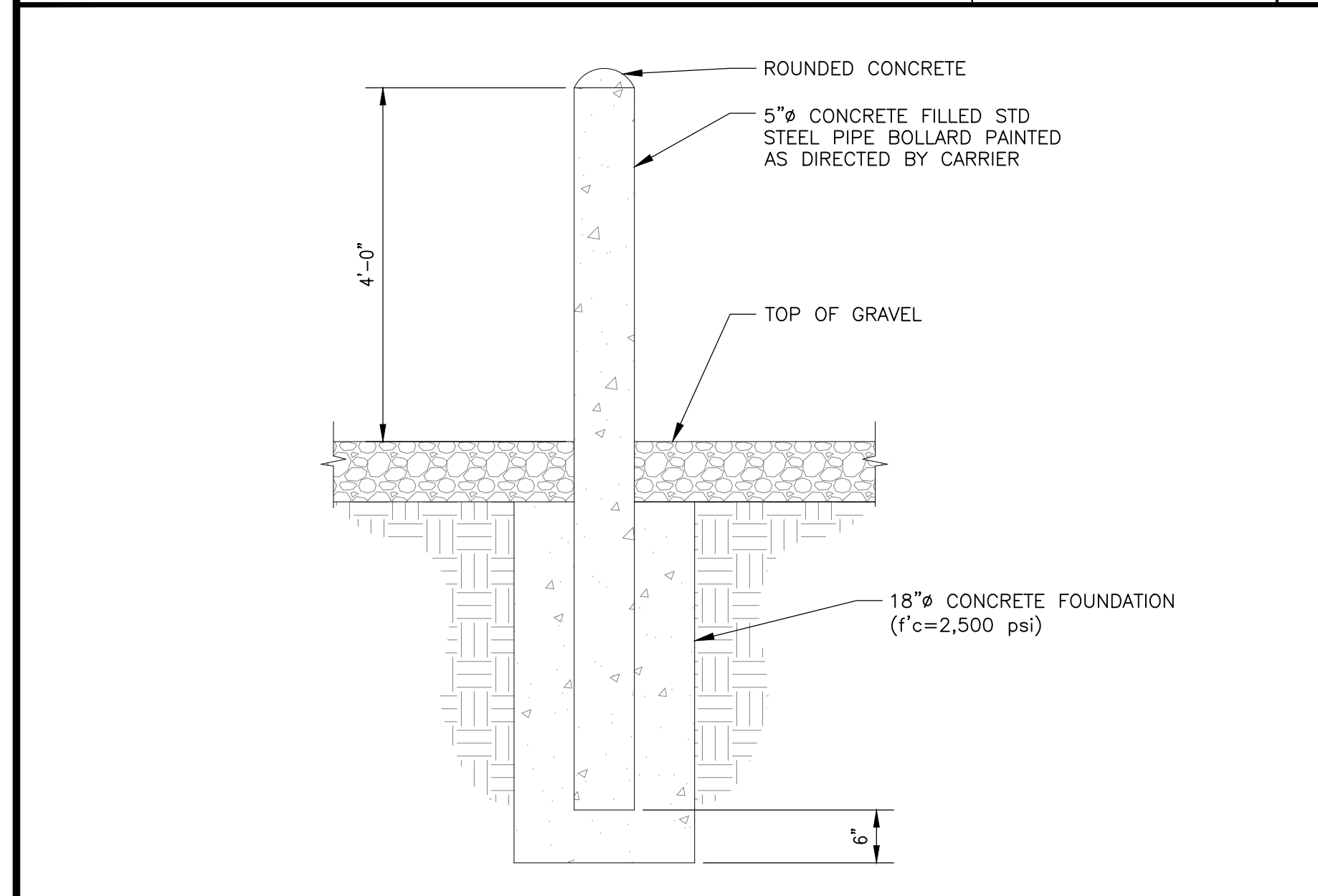
**TRANSFORMER MOUNTING DETAIL** NOT TO SCALE **7**



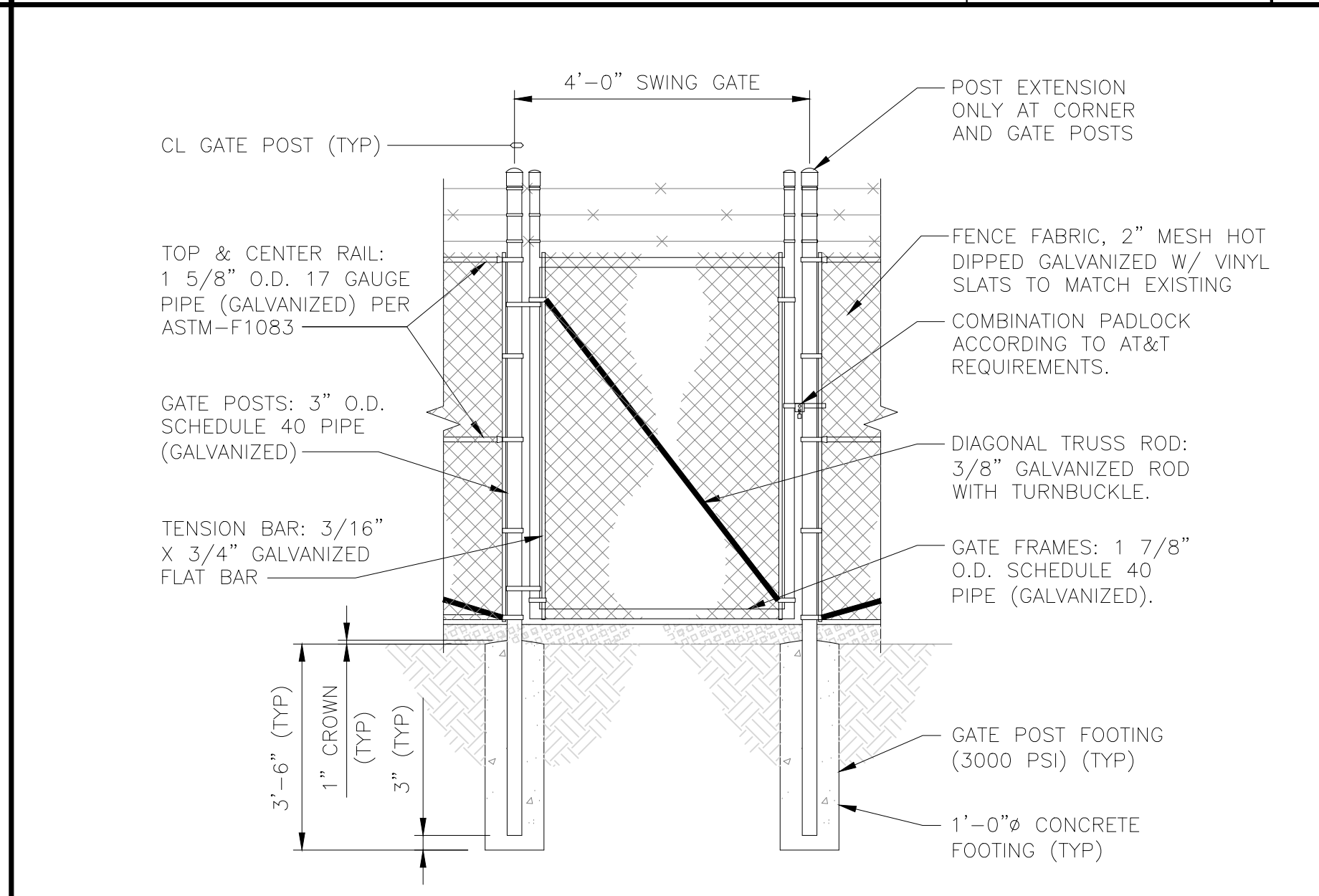
**CHAINLINK FENCE DETAIL** NOT TO SCALE **4**



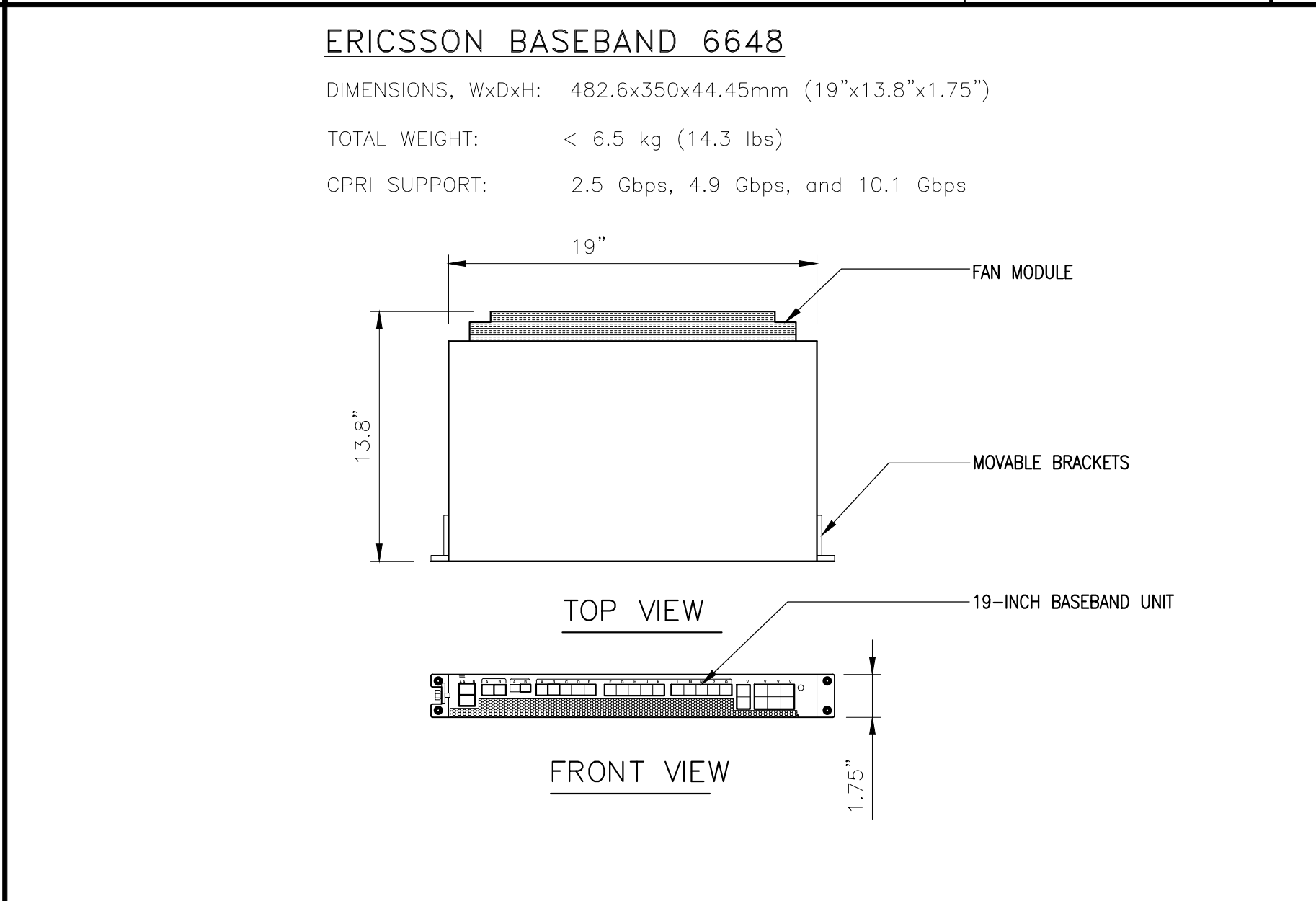
**BASEBAND 6630 DETAIL** NOT TO SCALE **1**



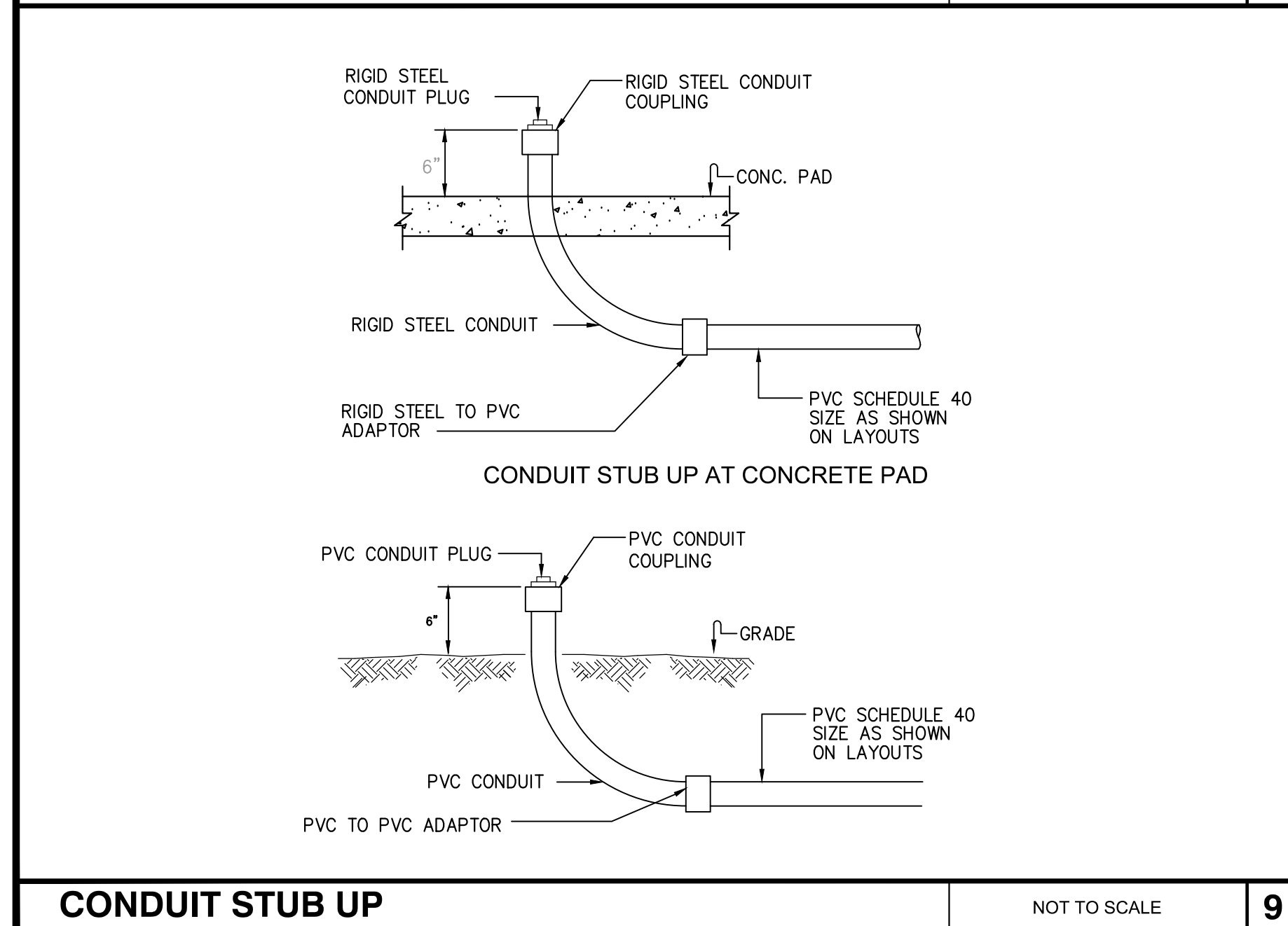
**BOLLARD DETAIL** NOT TO SCALE **8**



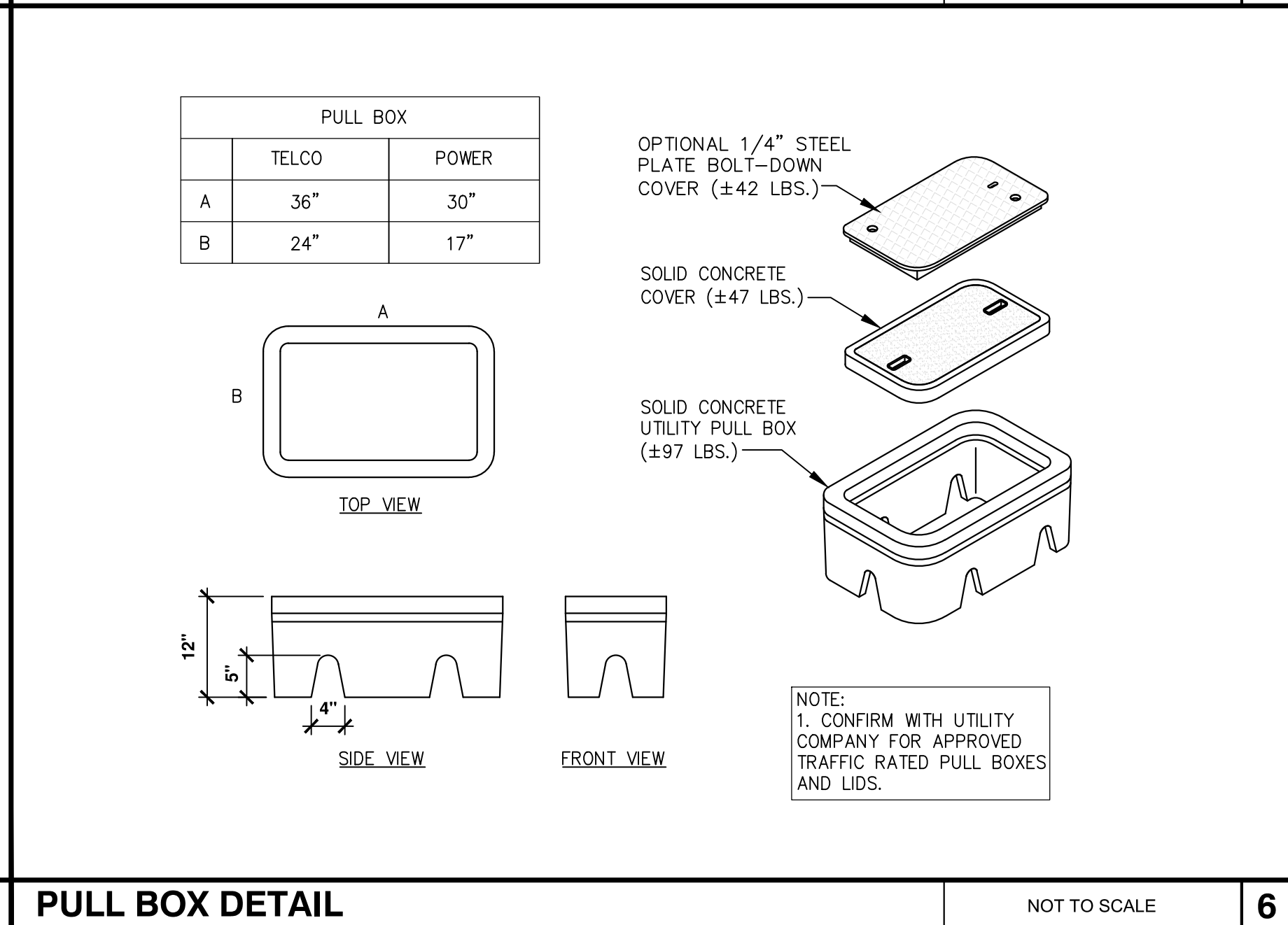
**CHAINLINK GATE DETAIL** NOT TO SCALE **5**



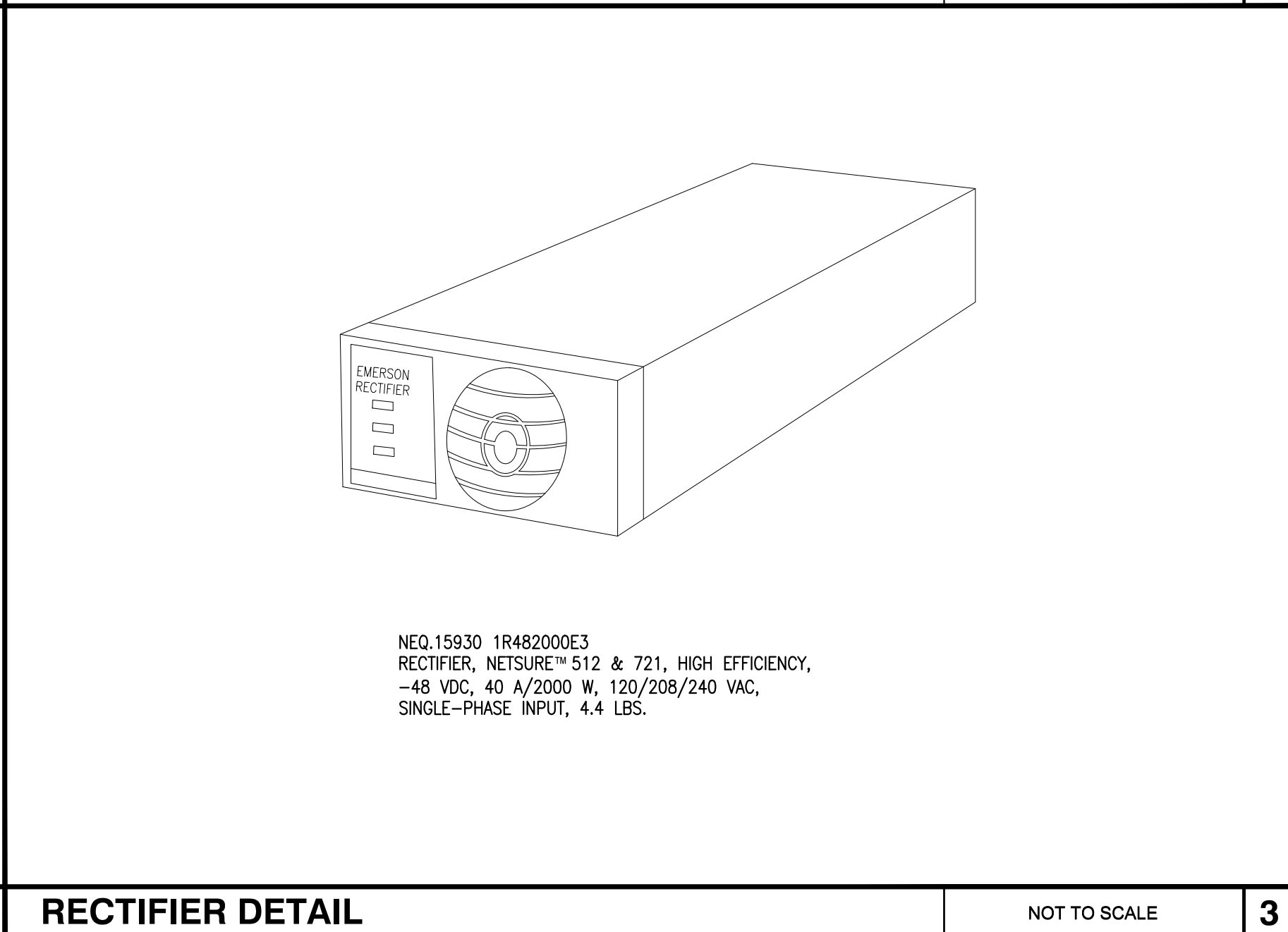
**BASEBAND 6648 DETAIL** NOT TO SCALE **2**



**CONDUIT STUB UP** NOT TO SCALE **9**



**PULL BOX DETAIL** NOT TO SCALE **6**



**RECTIFIER DETAIL** NOT TO SCALE **3**

**CONSULTANT**

**TSJ**

TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

**APPLICANT**

**at&t**  
mobility corp.

**SITE INFORMATION**

**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

**DESIGN RECORD**

**REVISIONS**

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**PROFESSIONAL STAMP**

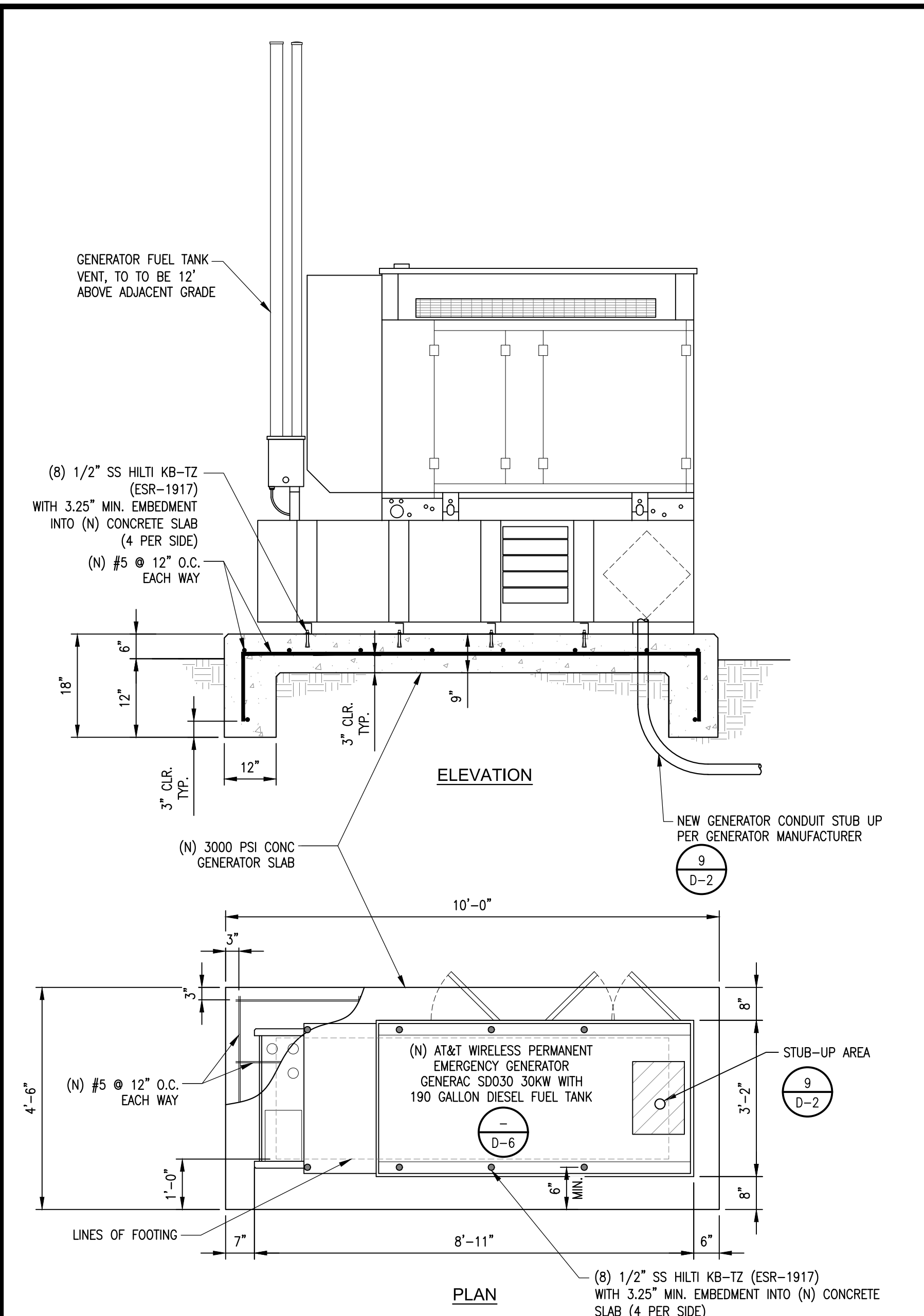
REGISTERED PROFESSIONAL ENGINEER  
DANIEL MICHAEL CORNELL  
NO. 82543  
EXP. 12/31/23  
CIVIL  
STATE OF CALIFORNIA  
DATE STAMPED: 02/01/2023

**SHEET TITLE**

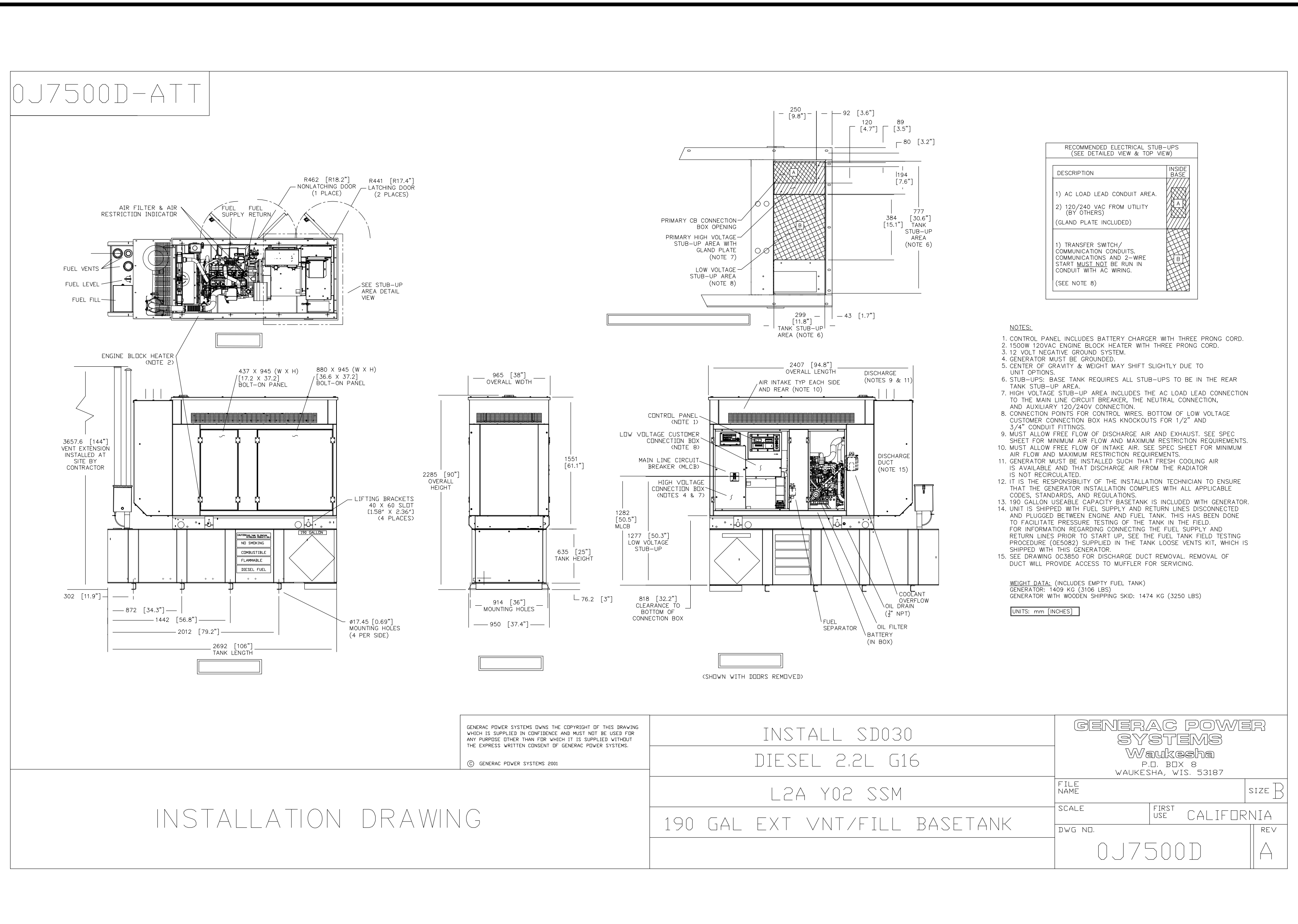
**DETAILS**

**SHEET**

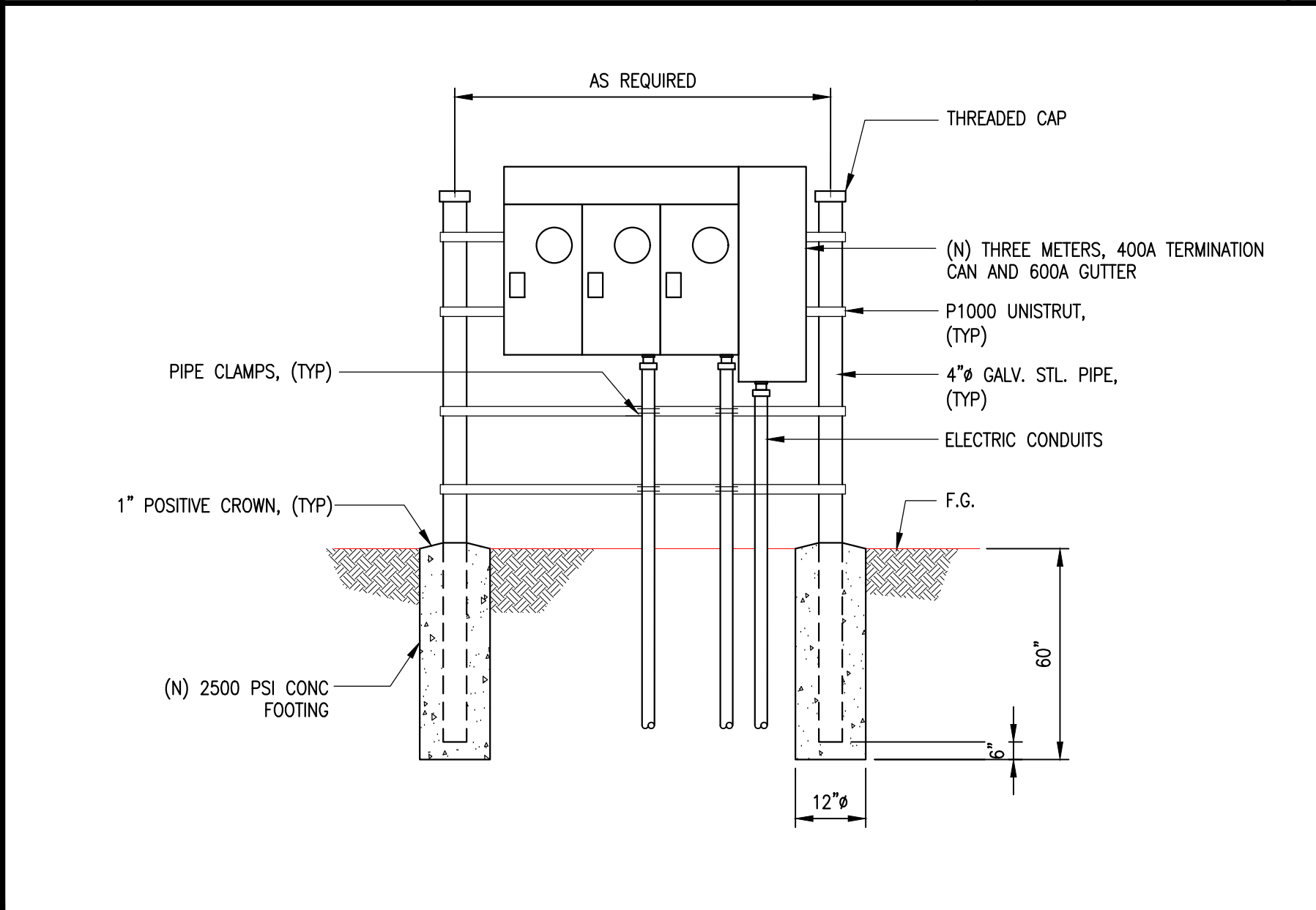
**D-2**



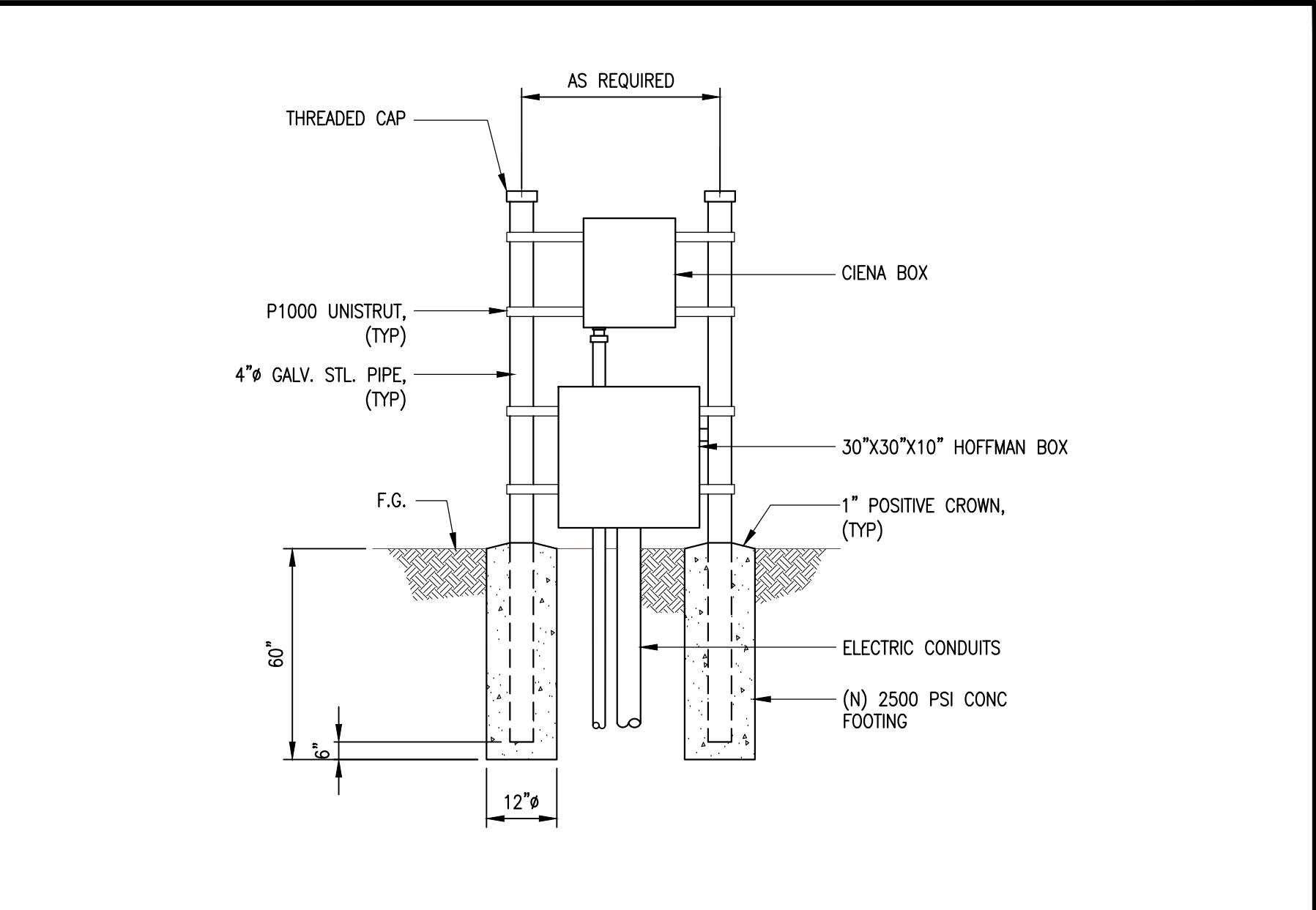
**GENERATOR DETAIL** NOT TO SCALE **4**



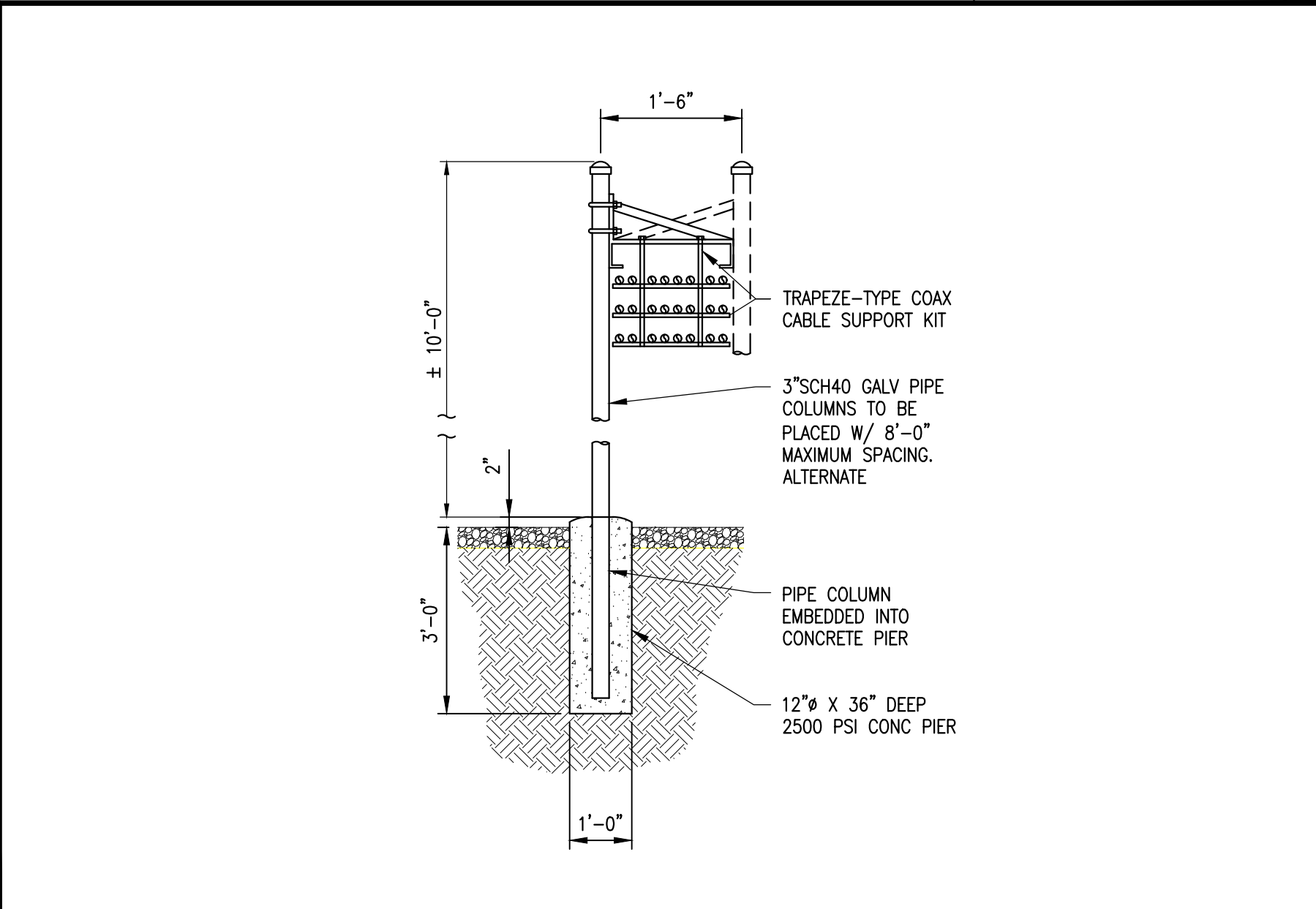
**GENERATOR FUEL TANK BASE** NOT TO SCALE **1**



**METER H-FRAME DETAIL** NOT TO SCALE **5**



**UTILITY H-FRAME DETAIL** NOT TO SCALE **3**



**ICE BRIDGE** NOT TO SCALE **2**

**CONSULTANT**

TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

**APPLICANT**

**SITE INFORMATION**

**CVL06558**  
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**ATC-COLO**  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

**DESIGN RECORD**

REV	DATE	DESCRIPTION	BY
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**PROFESSIONAL STAMP**

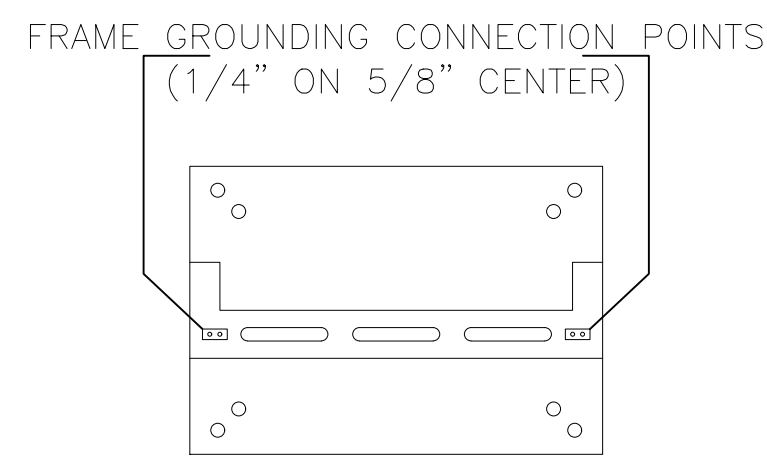
DATE STAMPED: 02/01/2023

**SHEET TITLE**

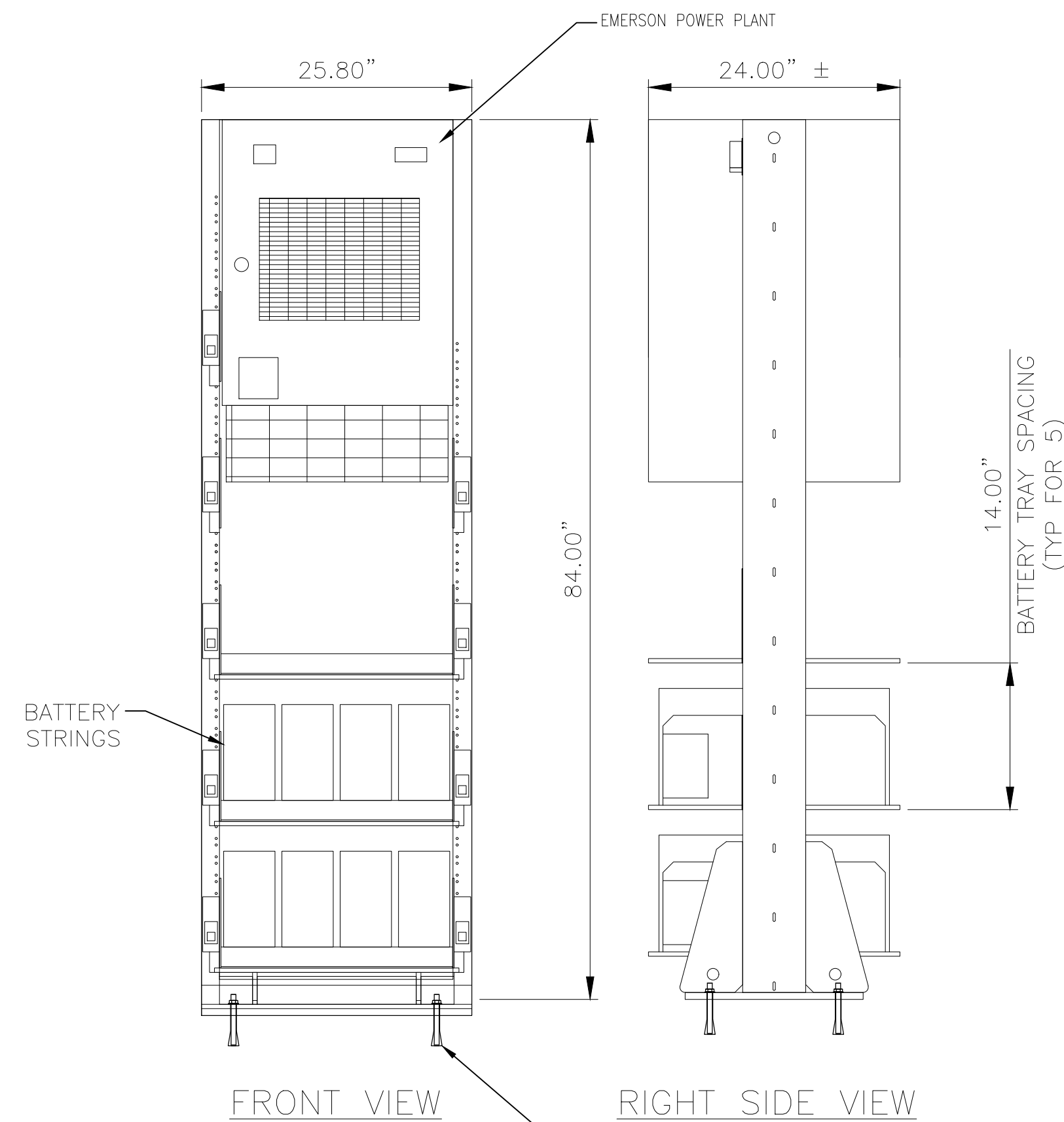
**DETAILS**

**SHEET**

**D-3**

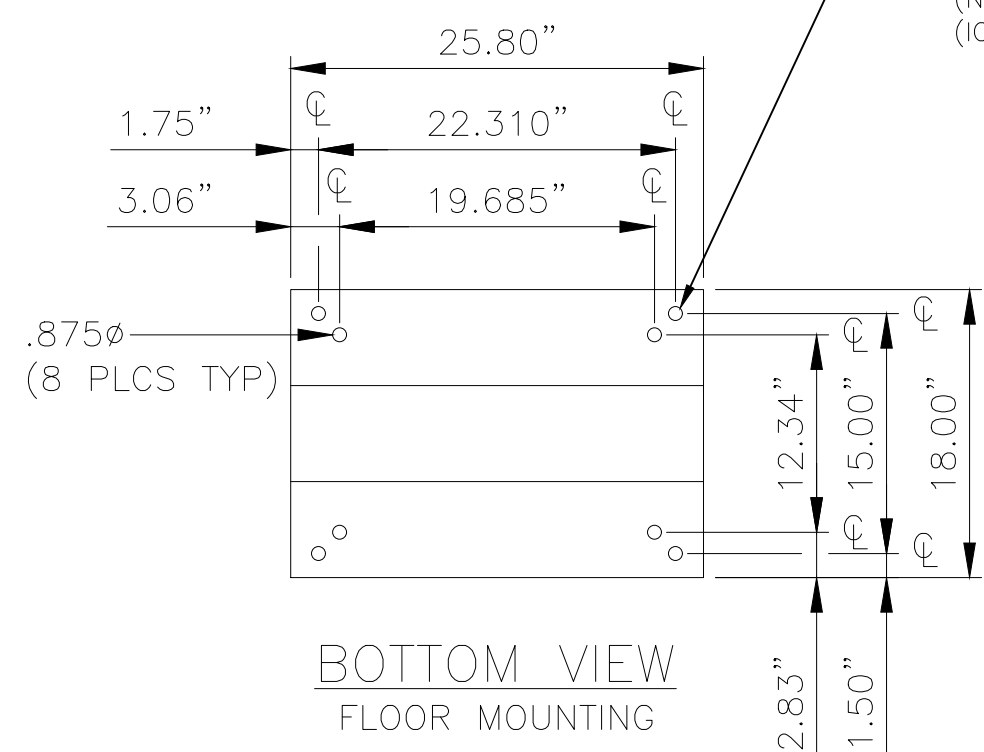


TOP VIEW  
EQUIPMENT NOT SHOWN FOR CLARITY



RACK WEIGHT W/O BATTERIES = 600lbs  
W/(8) BATTERIES

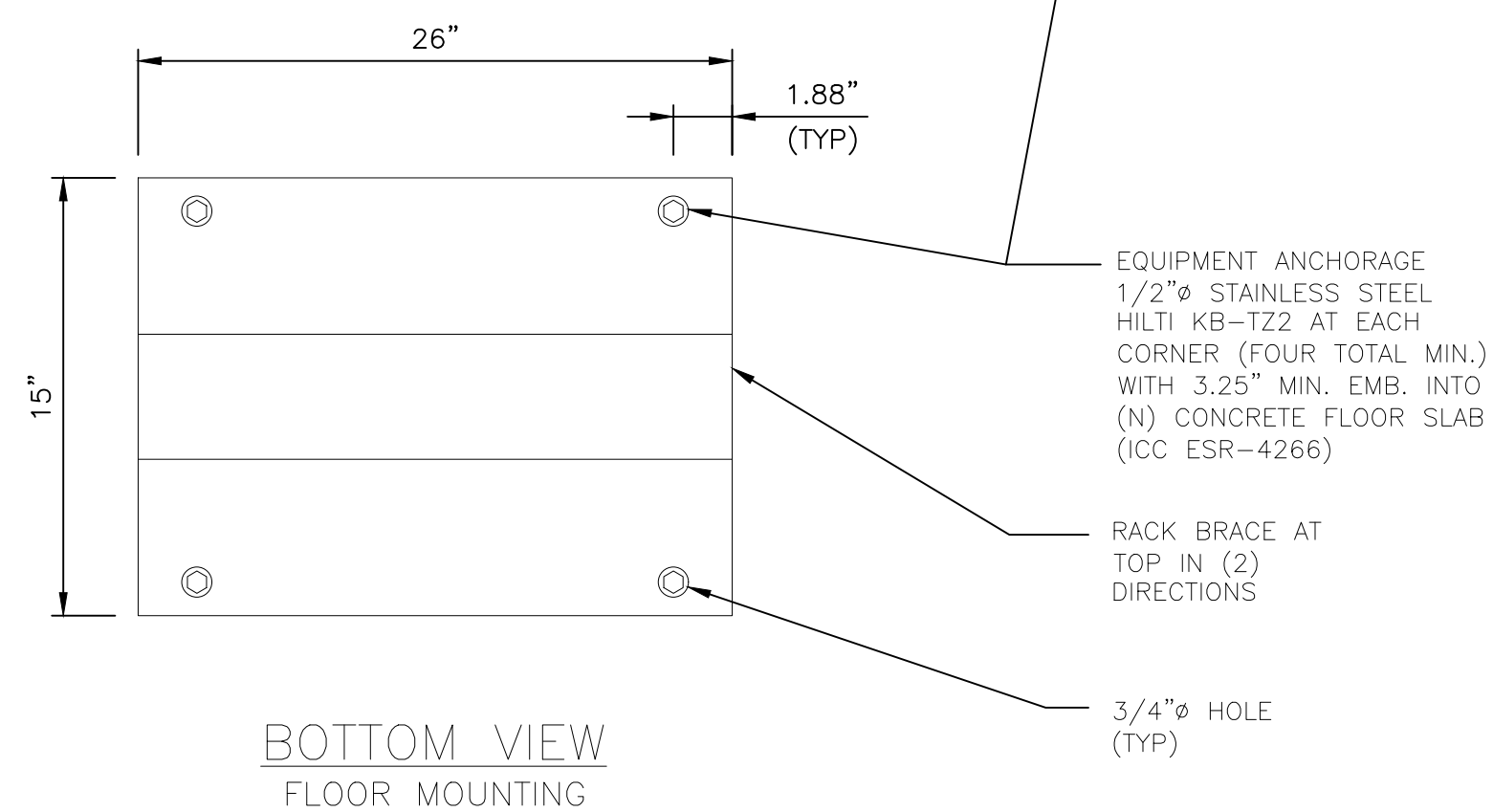
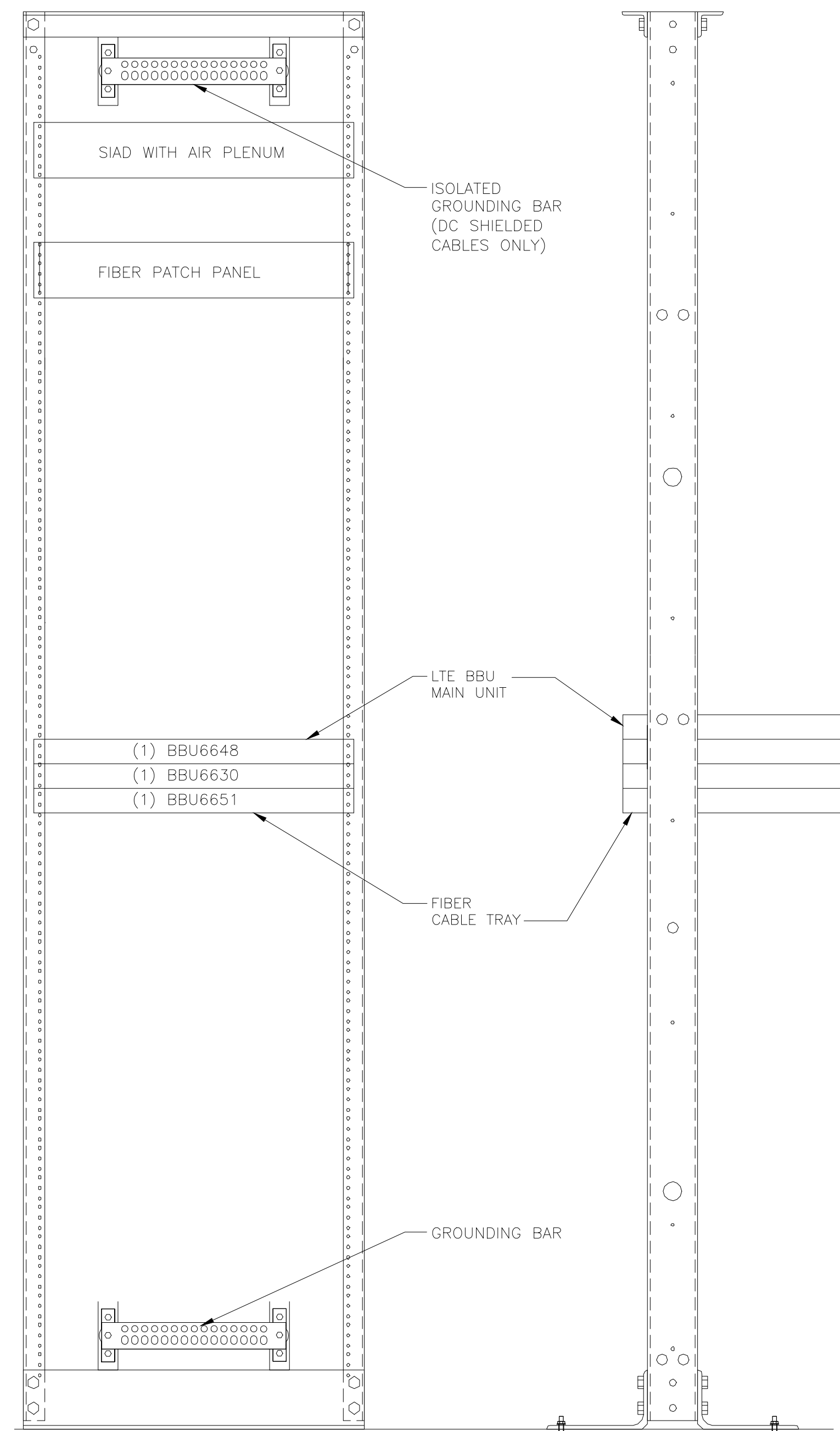
EQUIPMENT ANCHORAGE  
1/2" STAINLESS STEEL  
HILTI KB-T22 AT EACH  
CORNER (FOUR TOTAL MIN.)  
WITH 3.25" MIN. EMB. INTO  
(N) CONCRETE FLOOR SLAB  
(ICC ESR-4266)



EMERSON POWER PLANT DETAIL

NOT TO SCALE

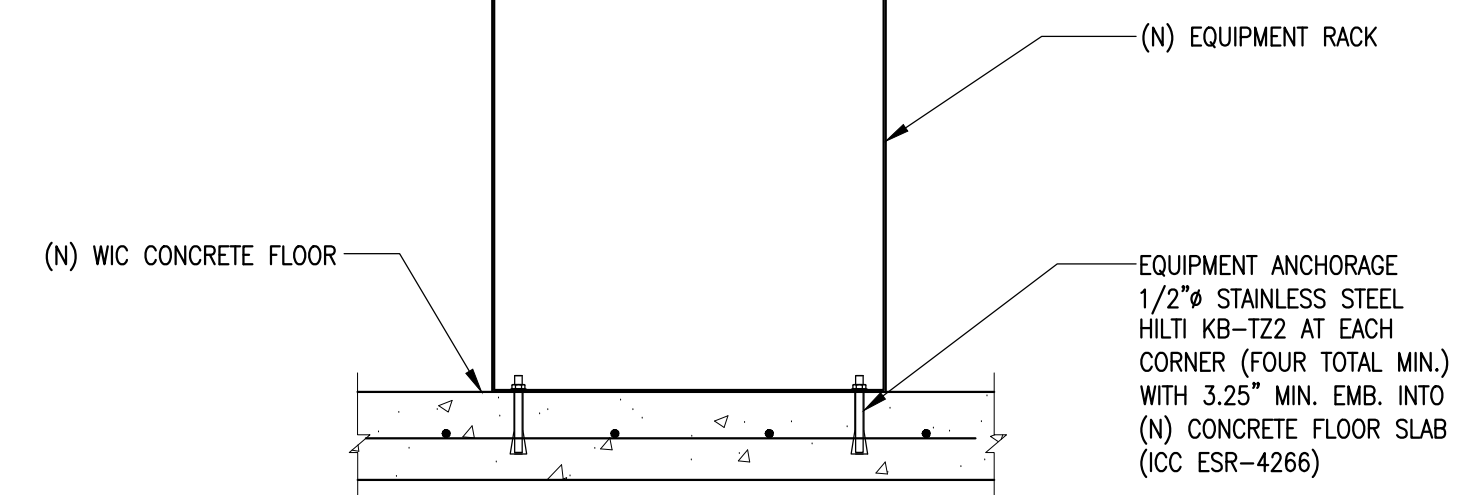
5



LTE RACK DETAIL

NOT TO SCALE

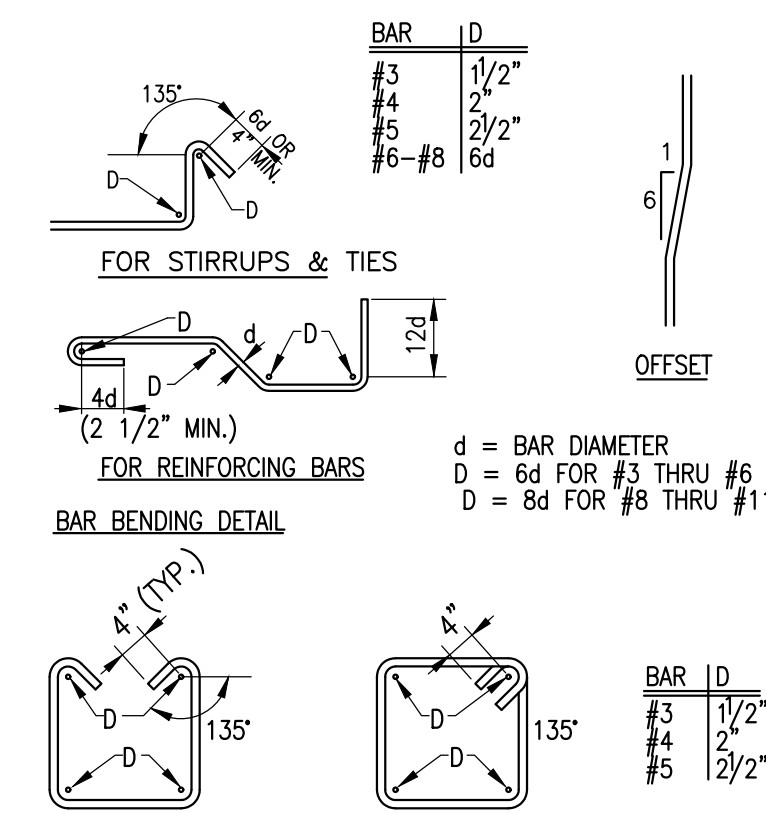
4



RACK MOUNTING DETAIL

NOT TO SCALE

1



REBAR DETAIL

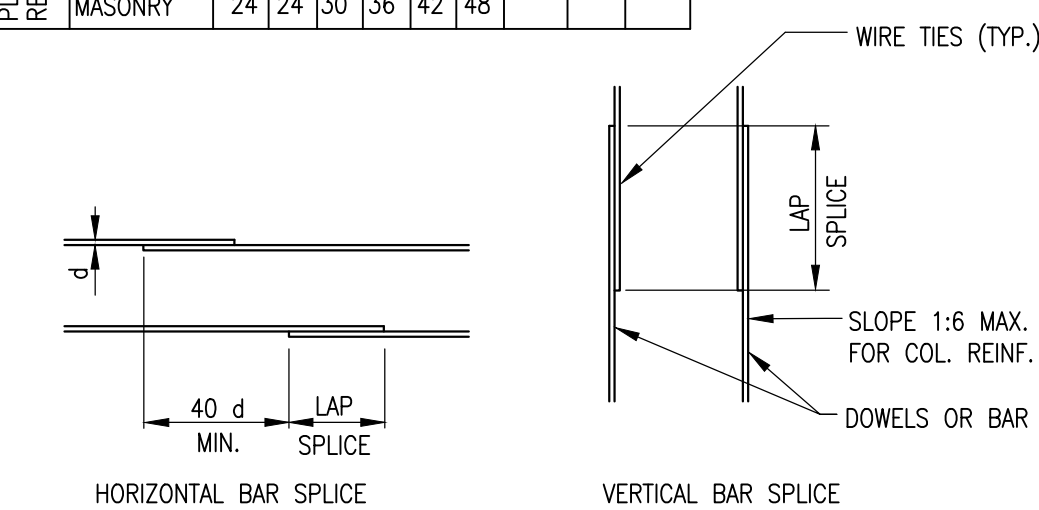
NOT TO SCALE

2

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

NOTES :

- ALL VERTICAL REINFORCING FOR COL., PIERS & WALLS SHALL BE DOWELED AS SHOWN EXCEPT SPECIFIC DETAILS ON DRAWINGS SHALL GOVERN IN CASES OF CONFLICT.
- DOWELS SHALL BE THE SAME GRADE, SIZE AND NUMBER AS VERTICAL REINFORCING.



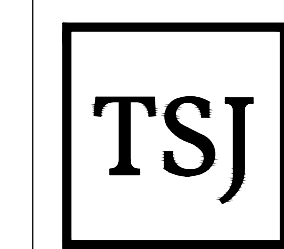
TYP. BAR LAP SPICE

REBAR DETAIL

NOT TO SCALE

3

CONSULTANT



TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

APPLICANT



SITE INFORMATION

**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

DESIGN RECORD

REVISIONS

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0	10/18/22	90% CD	LE

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PROFESSIONAL STAMP



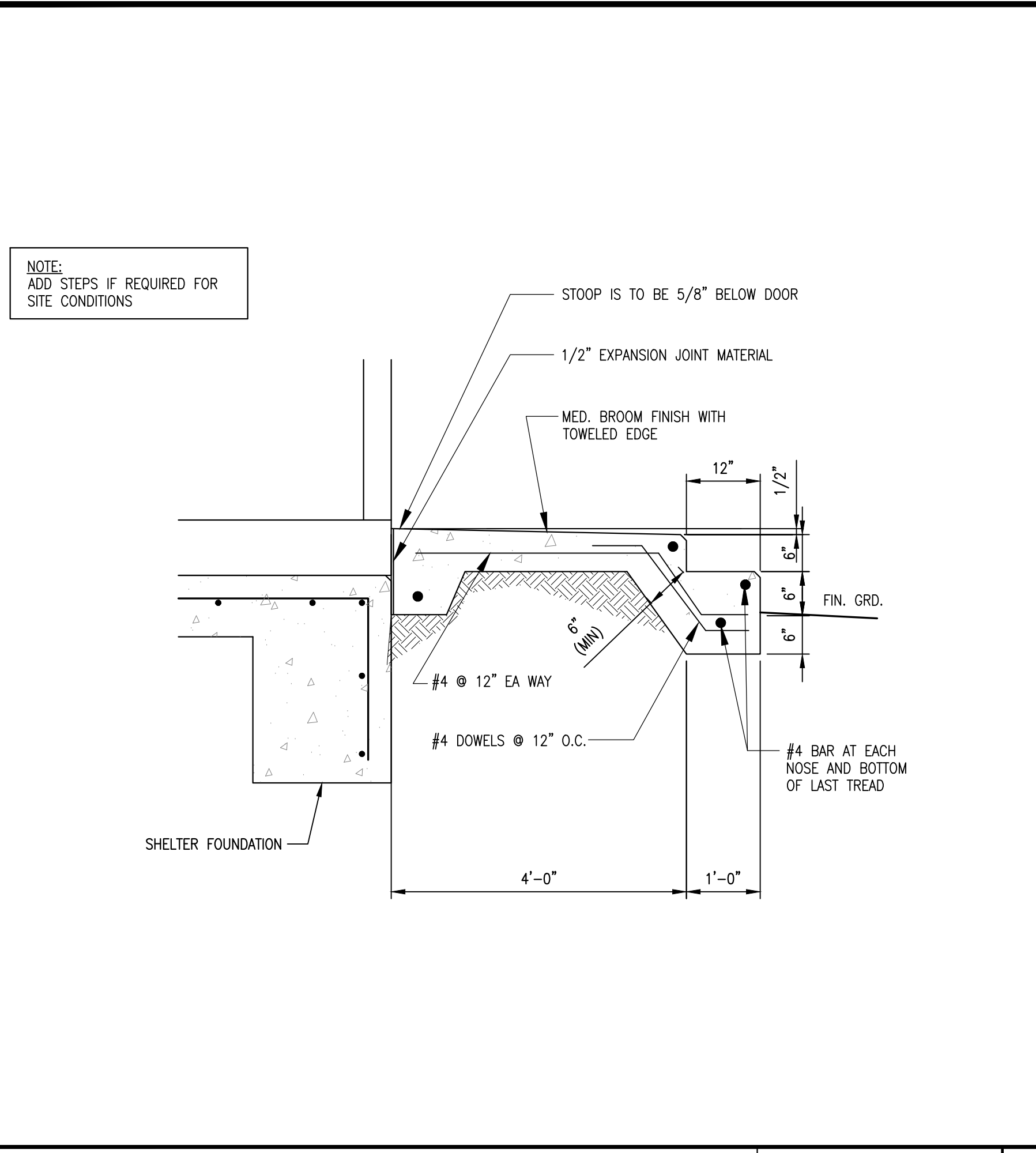
DATE STAMPED: 02/01/2023

SHEET TITLE

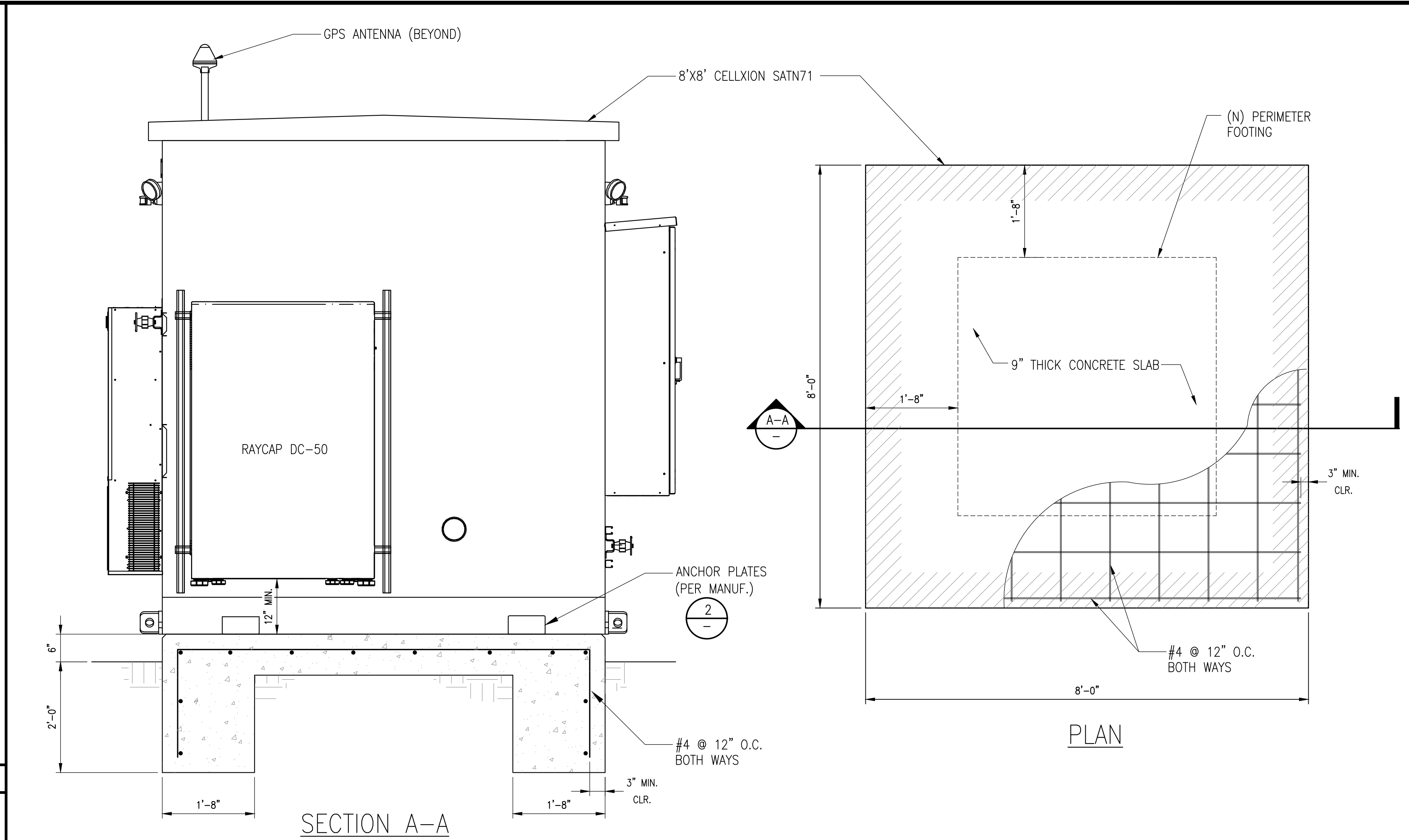
DETAILS

SHEET

D-4



**CONCRETE STOOP DETAIL** NOT TO SCALE **3**



**NOTES:**

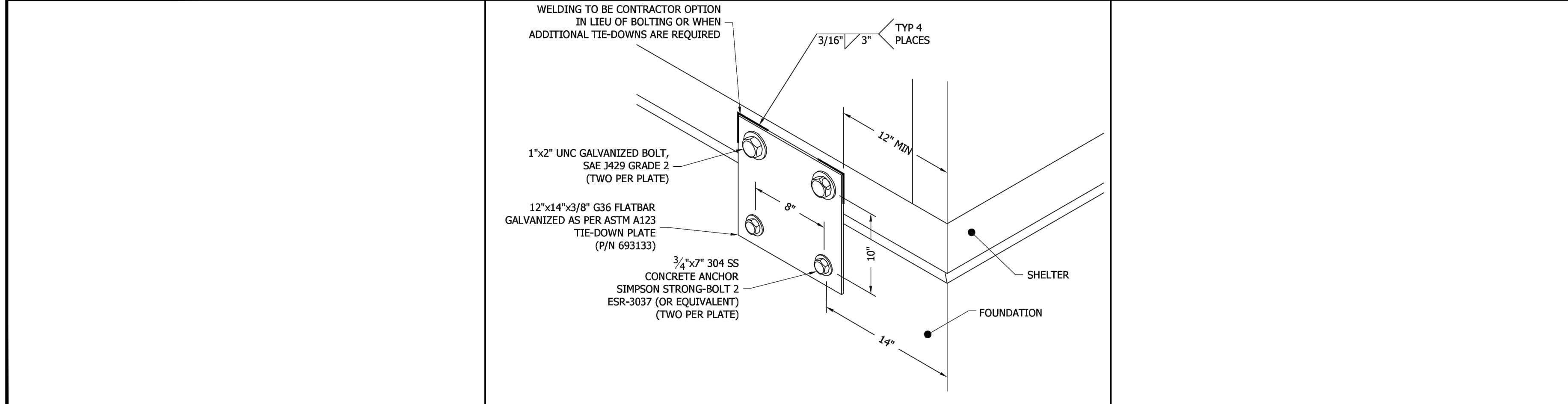
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS WITH TYPE V CEMENT AND A CEMENT/WATER RATIO OF 0.45 OR LESS
2. ALL CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION IN ACCORDANCE WITH A.C.I. STANDARDS 309-72 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
3. ALL COLD WEATHER/HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH A.C.I. 305 AND 306.
4. FOUNDATION FOR SHELTER BASED ON 1500PSF (MIN) BEARING VALUE. PER THE 2016 C.B.C.
5. PROVIDE CONCRETE TEST CYLINDERS: 1 AT 7 DAYS, 2 AT 28 DAYS. SUBMIT TEST DATA TO CONSTRUCTION MANAGER FOR REVIEW & APPROVAL.
6. SAWCUT AND REMOVE INTERFERING PAVEMENT AS NECESSARY FOR FOUNDATION CONSTRUCTION.
7. PLACE 6 MIL VISQUEEN MOISTURE BARRIER AND COVER WITH 2" OF CLEAN SAND.

**REINFORCING STEEL:**

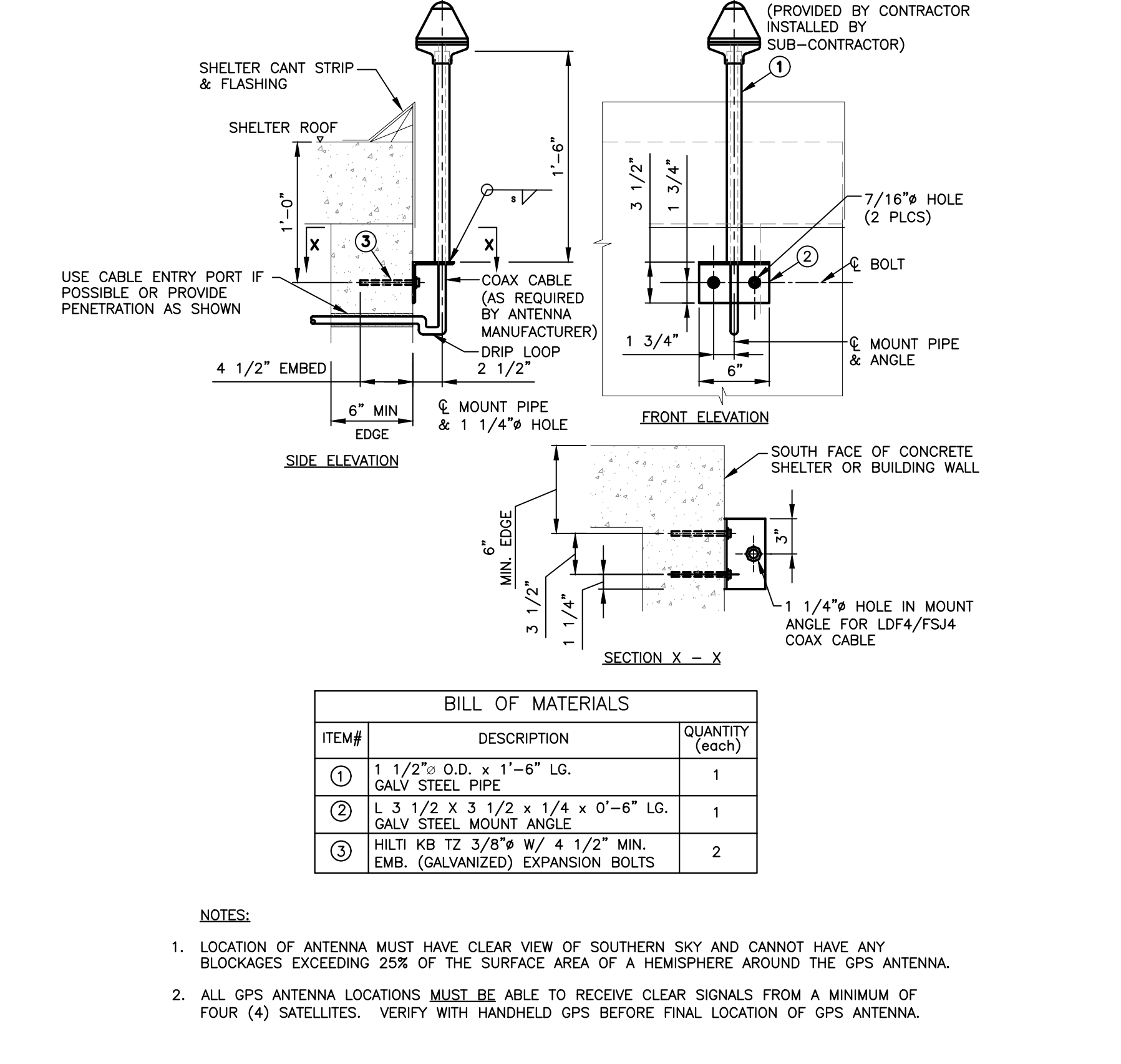
1. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 BARS
2. ALL DETAILING, FABRICATION, PLACING AND SUPPORTS SHALL BE IN ACCORDANCE WITH A.C.I. 318-89 AND C.R.S.I.

CONTRACTOR TO VERIFY AND COORDINATE PROPER GRADE WITH CONSTRUCTION MANAGER

**SECTION A-A** NOT TO SCALE **1**



**SHELTER TIE DOWN DETAILS** NOT TO SCALE **2**



**GPS ANTENNA DETAIL** NOT TO SCALE **4**

**NOTES:**

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.

**CONSULTANT**

TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

**APPLICANT**

**SITE INFORMATION**

**CVL06558**  
**PONY EXPRESS**  
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POLLOCK PINES, CA 95726

**DESIGN RECORD**

REVISIONS			
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0	10/18/22	90% CD	LE

**PROFESSIONAL STAMP**

DATE STAMPED: 02/01/2023

**SHEET TITLE**

**DETAILS**

**SHEET**

**D-5**





TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675



**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

**REVISIONS**

REV	DATE	DESCRIPTION	BY
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0	10/18/22	90% CD	LE



DATE STAMPED: 02/01/2023

**DETAILS**

**D-7**

**PARTS LIST**

ITEM QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-17822Z		15.90	84.79
2	18	A5802	5/8" x 2" HDG A325 HEX BOLT	0.27	4.89
3	18	G58LW	5/8" HDG LOCKWASHER	0.03	0.47
4	18	A58NUT	5/8" HDG A325 HEX NUT	0.13	2.34

TOTAL WEIGHT: 105.90#

PIN RM-ADK  
OPTIONAL LARGE DIAMETER ADAPTER ASSEMBLY  
FOR USE WITH LWRM (SOLD SEPARATELY)  
ON 36" TO 60" DIAMETER MONOPOLES

36" TO 60" DIAMETER MONOPOLE

6 1/4" (REF)

6 1/4" (REF)

9 1/2" (REF)

LWRM ASSEMBLY (SEE PAGE 1)

**TOLERANCE NOTES**  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.007")  
DRILLED AND GAS CUT HOLES (± 0.007") NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") NO CONING OF HOLES  
HOLE DIA ARE ± 1% DECREE  
ALL OTHER MACHINING (± 0.007")  
ALL OTHER ASSEMBLY (± 0.007")

DESCRIPTION: RING MOUNT ASSEMBLY 12" TO 40" DIAMETER POLE

DATE: 8/24/2012

BY: CUSTOMER

CHECKED BY: CEK

REVISIONS: 01

**PARTS LIST**

ITEM QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM		63.16	264.48
2	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	0.55	4.94
2	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	0.55	4.94
3	18	A58FW	5/8" HDG A325 FLATWASHER	0.03	0.63
4	18	G58LW	5/8" HDG LOCKWASHER	0.03	0.47
5	18	A58NUT	5/8" HDG A325 HEX NUT	0.13	2.34

TOTAL WT. # 268.35#

REQUIRED ROD LENGTH IS EQUAL TO THE POLE DIAMETER. THREADED ROD MAY BE CUT TO LENGTH AS REQUIRED.

6 1/4" (REF)

6 1/4" (REF)

9 1/2" (REF)

12" TO 40" DIAMETER MONOPOLE (REF)

36" OR 48" STANDARD (CUT AS REQUIRED)

9 1/2" (REF)

**TOLERANCE NOTES**  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.007")  
DRILLED AND GAS CUT HOLES (± 0.007") NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") NO CONING OF HOLES  
HOLE DIA ARE ± 1% DECREE  
ALL OTHER MACHINING (± 0.007")  
ALL OTHER ASSEMBLY (± 0.007")

DESCRIPTION: RING MOUNT ASSEMBLY 12" TO 40" DIAMETER POLE

DATE: 8/24/2012

BY: CUSTOMER

CHECKED BY: CEK

REVISIONS: 01

VALMONT IS SUPPLYING THE VALUE OF THE "W" DIMENSIONS TO ASSIST THE ERECTOR IN PRE-ASSEMBLING THE CLAMPS & TIE RODS.

POLE DIAMETER IS CALCULATED FROM MEASURED CIRCUMFERENCE

THE CIRCUMFERENCE IS THE DISTANCE MEASURED AROUND THE OUTSIDE OF THE POLE AT THE LOCATION OF THE CLAMP.

**TOLERANCE NOTES**  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.007")  
DRILLED AND GAS CUT HOLES (± 0.007") NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") NO CONING OF HOLES  
HOLE DIA ARE ± 1% DECREE  
ALL OTHER MACHINING (± 0.007")  
ALL OTHER ASSEMBLY (± 0.007")

DESCRIPTION: RING MOUNT ASSEMBLY 12" TO 40" DIAMETER POLE

DATE: 8/24/2012

BY: CUSTOMER

CHECKED BY: CEK

REVISIONS: 01

2-3/8" OD PIPE, 2-7/8" OD PIPE OR 3-1/2" OD PIPE, PIPE NOT INCLUDED

**TOLERANCE NOTES**  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.007")  
DRILLED AND GAS CUT HOLES (± 0.007") NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") NO CONING OF HOLES  
HOLE DIA ARE ± 1% DECREE  
ALL OTHER MACHINING (± 0.007")  
ALL OTHER ASSEMBLY (± 0.007")

DESCRIPTION: 2" STAND-OFF WIRELESS WALL MOUNT, SITE PRO 1

DATE: 5/10/2010

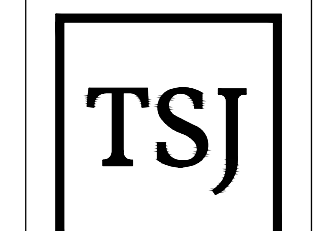
BY: CUSTOMER

CHECKED BY: BMC

REVISIONS: 01

CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W	CIRCUMF	DIA (REF)	W
36"	12-1/8"	9-3/16"	63"	20-1/16"	16-3/16"	88"	28"	23-3/16"	113"	36"	30-3/16"	138"	43-1/8"	163"
36"	12-1/8"	9-3/16"	64"	20-3/16"	16-7/16"	89"	28-1/8"	23-1/2"	114"	36-3/16"	139"	43-1/4"	164"	
36"	12-3/4"	9-3/4"	65"	20-1/2"	16-3/4"	90"	28-1/4"	23-3/4"	115"	36-3/4"	140"	43-3/8"	165"	
41"	13-1/8"	10"	66"	21"	17"	91"	28-1/2"	24-1/8"	116"	36-1/2"	141"	43-7/8"	166"	
42"	13-3/8"	10-5/16"	67"	21-1/16"	17-1/16"	92"	28-5/16"	24-1/4"	117"	37-1/4"	142"	44-1/8"	167"	
43"	13-1/2"	10-9/16"	68"	21-3/16"	17-3/16"	93"	28-9/16"	24-3/8"	118"	37-3/8"	143"	44-1/4"	168"	
44"	14"	10-7/8"	69"	21-5/8"	17-7/8"	94"	28-7/8"	24-7/8"	119"	37-7/8"	144"	44-3/8"	169"	
45"	14-1/8"	11-1/8"	70"	22-1/8"	18-1/8"	95"	29-1/8"	25-1/8"	120"	38-1/8"	145"	44-7/8"	170"	
46"	14-5/8"	11-1/4"	71"	22-1/4"	18-1/4"	96"	29-1/4"	25-1/4"	121"	38-1/4"	146"	45-1/8"	171"	
47"	14-3/4"	11-11/16"	72"	22-5/16"	18-11/16"	97"	29-5/16"	25-11/16"	122"	38-5/16"	147"	45-3/4"	172"	
48"	15-1/4"	11-1/2"	73"	22-3/4"	18-3/4"	98"	29-3/4"	25-3/4"	123"	38-3/4"	148"	46-1/8"	173"	
49"	15-5/8"	12-1/4"	74"	23-1/4"	19-1/4"	99"	30-1/4"	26-1/4"	124"	39-1/4"	149"	46-3/8"	174"	
50"	15-11/16"	12-1/2"	75"	23-1/2"	19-1/2"	100"	30-1/2"	26-1/2"	125"	39-1/2"	150"	46-3/4"	175"	
51"	16-1/4"	12-3/8"	76"	24-1/8"	19-3/8"	101"	30-3/8"	26-3/8"	126"	39-3/8"	151"	46-7/8"	176"	
52"	16-9/16"	12-5/16"	77"	24-1/16"	19-5/16"	102"	30-5/16"	26-5/16"	127"	39-5/16"	152"	47-1/8"	177"	
53"	16-7/8"	12-3/4"	78"	24-3/8"	19-3/4"	103"	30-3/4"	26-3/4"	128"	39-3/4"	153"	47-1/4"	178"	
54"	17-3/16"	13-5/16"	79"	25-1/8"	20-1/8"	104"	31-1/8"	27-1/8"	129"	40-1/8"	154"	47-3/8"	179"	
55"	17-1/2"	13-1/2"	80"	25-1/2"	20-1/2"	105"	31-1/2"	27-1/2"	130"	40-1/2"	155"	47-7/8"	180"	
56"	17-13/16"	14-3/16"	81"	25-3/16"	21-3/16"	106"	31-3/16"	27-3/16"	131"	41-3/16"	156"	48-1/8"	181"	
57"	18-1/8"	14-1/8"	82"	25-1/8"	21-1/8"	107"	31-1/8"	27-1/8"	132"	41-1/8"	157"	48-1/4"	182"	
58"	18-3/4"	14-3/4"	83"	26-3/4"	21-3/4"	108"	32-3/4"	28-3/4"	133"	42-3/4"	158"	48-3/4"	183"	
59"	18-11/16"	14-11/16"	84"	26-11/16"	21-11/16"	109"	32-11/16"	28-11/16"	134"	42-11/16"	159"	48-7/8"	184"	
60"	19-1/8"	15-1/8"	85"	27-1/8"	22-1/8"	110"	33-1/8"	29-1/8"	135"	43-1/8"	160"	49-1/8"	185"	
61"	19-1/4"	15-1/4"	86"	27-1/4"	22-1/4"	111"	33-1/4"	29-1/4"	136"	43-1/4"	161"	49-1/4"	186"	
62"	19-3/4"	15-3/4"	87"	27-3/4"	22-3/4"	112"	33-3/4"	29-3/4"	137"	43-3/4"	162"	49-3/4"	187"	

MOUNT DETAILS SHOWN FOR REFERENCE ONLY.  
(3) SITEPRO1 VFA10-HD314NP SECTOR FRAMES ON WWM02 STANDOFF WITH 3.5"OD PIPE AND LWRM COLLAR MOUNT (REFER TO MOUNT STRUCTURAL ANALYSIS BY TECTONIC DATED MAY 20, 2022)



TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675



**CVL06558**  
PONY EXPRESS  
ATC-COLO  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

REVISIONS

REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE



DATE STAMPED: 02/01/2023

DETAILS

D-8

2-3/8" OR 2-7/8" ANTENNA MOUNTING PIPES (ORDERED SEPARATELY)

TRIM AS REQUIRED

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	X-VF4W	SUPPORT ARM		71.41	428.44
2	6	P30120	2-7/8" O.D. X 126" SCH. 40 PIPE	126 in	64.63	387.78
3	3	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		38.24	108.72
4	3	X-HOCARTW	CLAMP WELDMENT FOR BCAM-HD		33.08	101.57
5	6	X-LCBP4	BENT BACKING PLATE	13 in	19.00	114.02
6	3	X-HDCAMB5	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		19.39	49.17
7	6	X-VF4L4	VFA-HD PIVOT PLATE		15.88	95.30
8	3	X-HDCAMP5	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	7.73
9	6	X-TBCA	THE BACK CLIP ANGLE		2.91	12.03
10	3	P2120	2-3/8" X 120" (2" SCH. 40) GALVANIZED PIPE	120 in	49.75	122.25
11	6	X-SPTB	SLIDING PIPE THE BACK PLATE	5 1/2 in	5.87	35.23
12	24	SC2	CROSSOVER PLATE	7 in	4.80	115.11
13	6	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/8 in	3.59	21.56
14	12	DCP	1/2" THICK, 5-3/4" CENTER TO CENTER CLAMP HALF	8 1/8 in	2.36	28.34
15	12	AS2412	3/4" X 21/2" LONG HEX BOLT (AS25)	2 1/2 in	0.48	5.75
16	12	G34FW	3/4" HDG USS FLATWASHER		0.08	0.71
17	12	G34LW	3/4" HDG LOCKWASHER		0.04	0.51
18	12	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	2.95
19	24	G58R-18	5/8" X 18" THREADED ROD (HDG.)		1.57	37.63
20	6	G58R-12	5/8" X 12" THREADED ROD (HDG.)		1.05	6.27
21	12	G58R-8	5/8" X 8" THREADED ROD (HDG.)		0.70	6.36
22	12	X-UBS300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	13.79
23	12	X-UBS358	5/8" X 2-3/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	12.00
24	6	G58G7	5/8" X 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	4.93
25	3	G58G6	5/8" X 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	1.85
26	12	G58G4	5/8" X 4" HDG HEX BOLT GR5		0.44	6.33
27	24	AS2114	5/8" X 2-1/4" HDG AS25 HEX BOLT	2 1/4 in	0.31	7.90
28	6	G58G2	5/8" X 2" HDG HEX BOLT GR5		0.27	1.62
29	48	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	3.17
30	156	G58LW	5/8" HDG LOCKWASHER		0.03	4.07
31	168	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	21.43
32	36	X-UB1300	1/2" X 2-1/2" X 2" GALV U-BOLT		0.74	70.91
33	48	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.60	28.67
34	192	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	6.54
35	192	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	2.67
36	192	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	13.75
TOTAL WT. # 1888.99						

**ANT 15999**

TOLERANCE NOTES  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.007")  
DRILLED AND GAS CUT HOLES (± 0.007") NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") NO CONING OF HOLES  
FINISH ARE ± 1.0 DECIMES

DESCRIPTION: THREE SECTOR HEAVY 10 FRAME AND SELF-SUPPORT / GUYED TOWER ATTACHMENT HDW, NO MOUNTING PIPES

DATE: 12/19/2017

**ANT 15999**

TOLERANCE NOTES  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.007")  
DRILLED AND GAS CUT HOLES (± 0.007") NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") NO CONING OF HOLES  
FINISH ARE ± 1.0 DECIMES

DESCRIPTION: THREE SECTOR HEAVY 10 FRAME AND SELF-SUPPORT / GUYED TOWER ATTACHMENT HDW, NO MOUNTING PIPES

DATE: 12/19/2017

NOTE: OTHER SECTORS REMOVED FOR CLARITY.

1-1/2" TO 8-5/8" DIAMETER LEG

10 1/2" ± TAPER ADJUSTMENT

32 1/32"

40" VARIABLE

**ANT 15999**

TOLERANCE NOTES  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.007")  
DRILLED AND GAS CUT HOLES (± 0.007") NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") NO CONING OF HOLES  
FINISH ARE ± 1.0 DECIMES

DESCRIPTION: THREE SECTOR HEAVY 10 FRAME AND SELF-SUPPORT / GUYED TOWER ATTACHMENT HDW, NO MOUNTING PIPES

DATE: 12/19/2017

NOTE: OTHER SECTORS REMOVED FOR CLARITY.

2-3/8" OR 2-7/8" ANTENNA MOUNTING PIPES (ORDERED SEPARATELY)

DETAIL A

DETAIL B

DETAIL C

DETAIL D

DETAIL E

DETAIL F

**ANT 15999**

TOLERANCE NOTES  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.007")  
DRILLED AND GAS CUT HOLES (± 0.007") NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") NO CONING OF HOLES  
FINISH ARE ± 1.0 DECIMES

DESCRIPTION: THREE SECTOR HEAVY 10 FRAME AND SELF-SUPPORT / GUYED TOWER ATTACHMENT HDW, NO MOUNTING PIPES

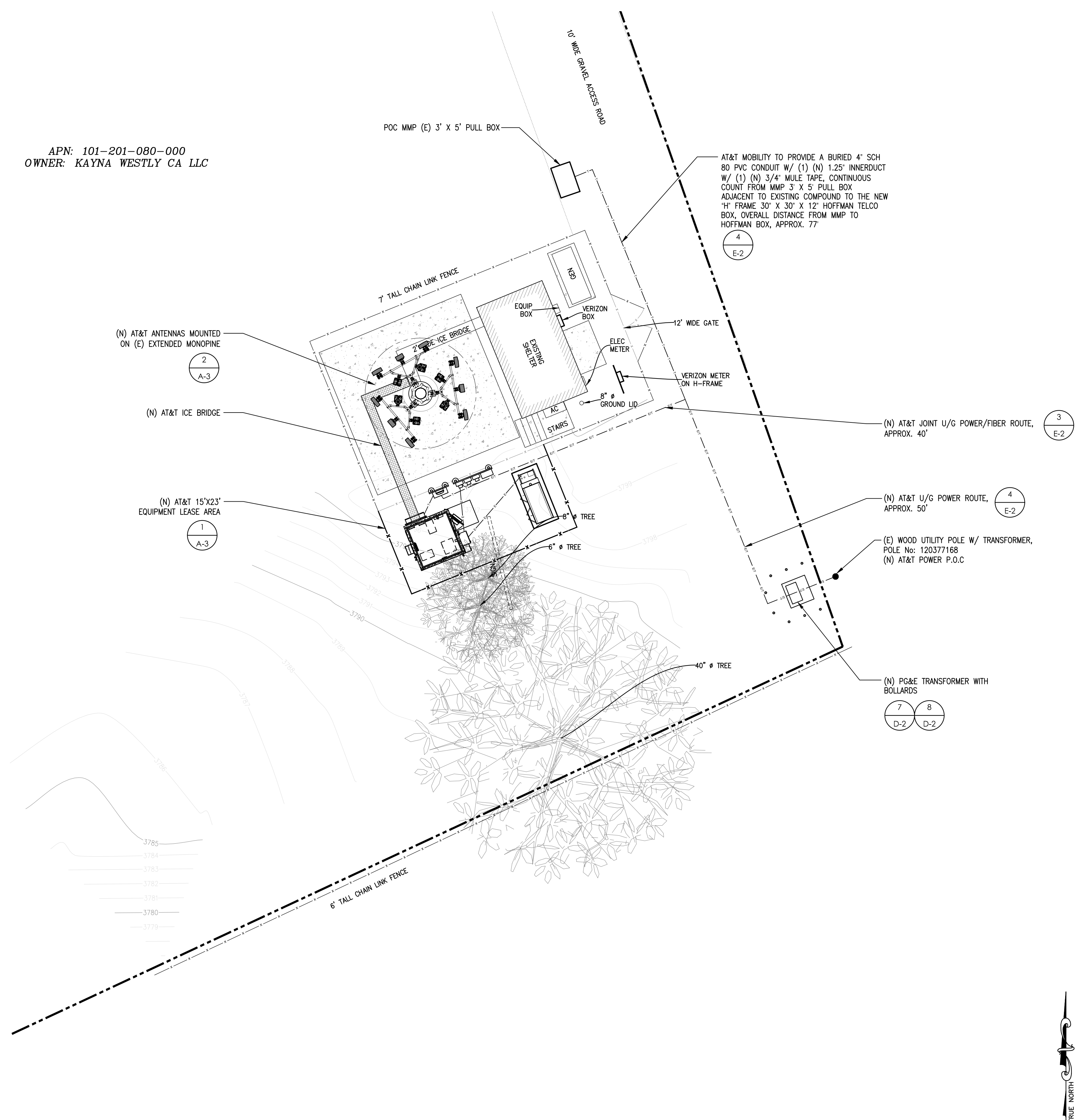
DATE: 12/19/2017

MOUNT DETAILS SHOWN FOR REFERENCE ONLY.  
(3) SITEPRO1 VFA10-HD3T4NP SECTOR FRAMES ON WWM02 STANDOFF WITH 3.5"OD PIPE AND LWRM COLLAR MOUNT (REFER TO MOUNT STRUCTURAL ANALYSIS BY TECTONIC DATED MAY 20, 2022)

**ELECTRICAL NOTES**

1. SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
3. VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
5. CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
8. ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
9. ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
10. PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
11. DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
12. ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
13. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
14. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
15. CONDUIT:
  - A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
  - B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
  - C. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
  - D. CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
  - E. PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
17. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
18. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
19. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
20. COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
21. VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
22. RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

APN: 101-201-080-000  
OWNER: KAYNA WESTLY CA LLC



SCALE: 1"=10'-0"  
0 5' 10'

**ELECTRICAL NOTES**

**2**

**UTILITY SITE PLAN**

CONSULTANT

APPLICANT

SITE INFORMATION

**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

DESIGN RECORD

REVISIONS			
REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

PROFESSIONAL STAMP

SHEET TITLE

**UTILITY SITE PLAN**  
**AND NOTES**

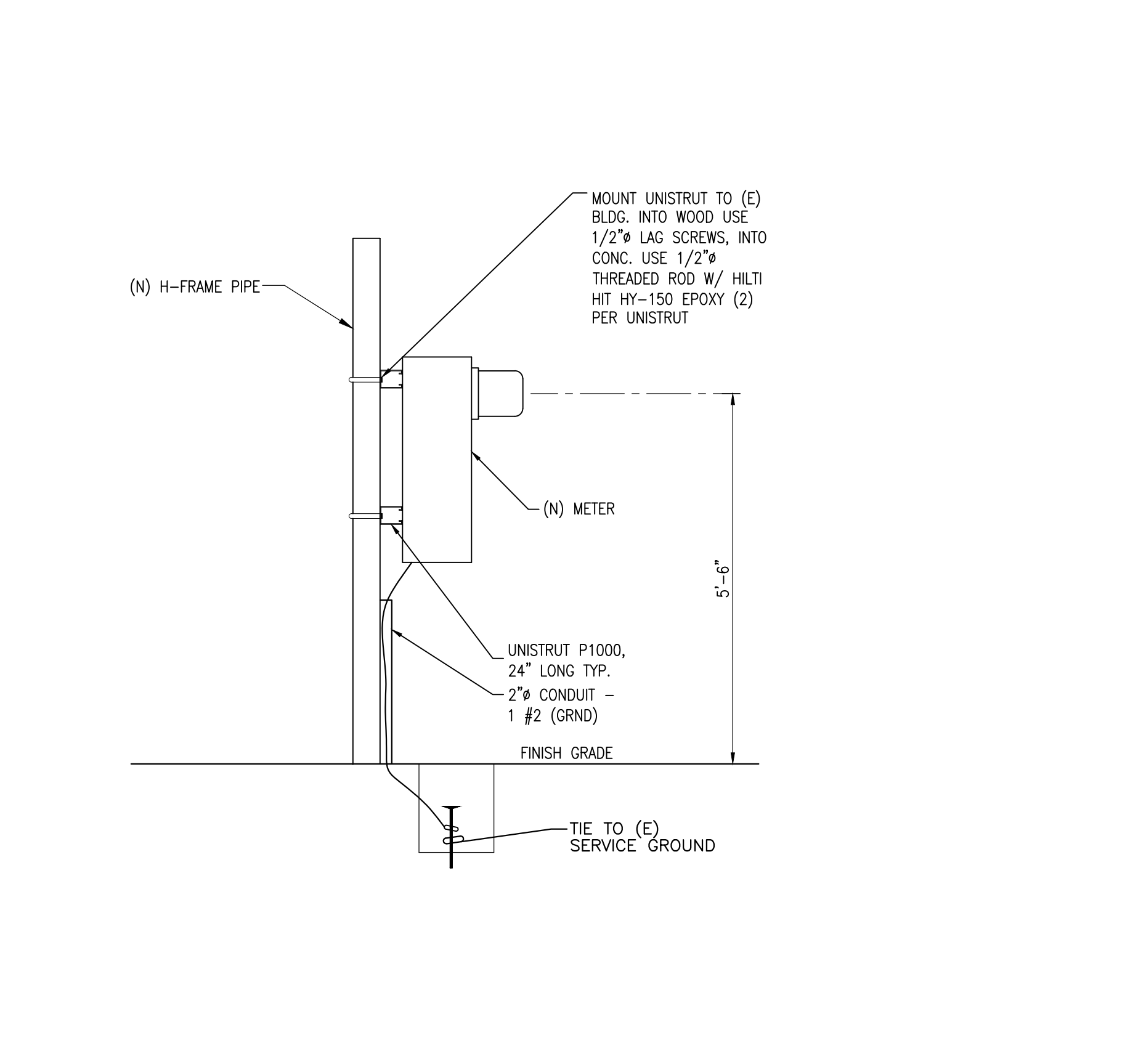
SHEET

**E-1**

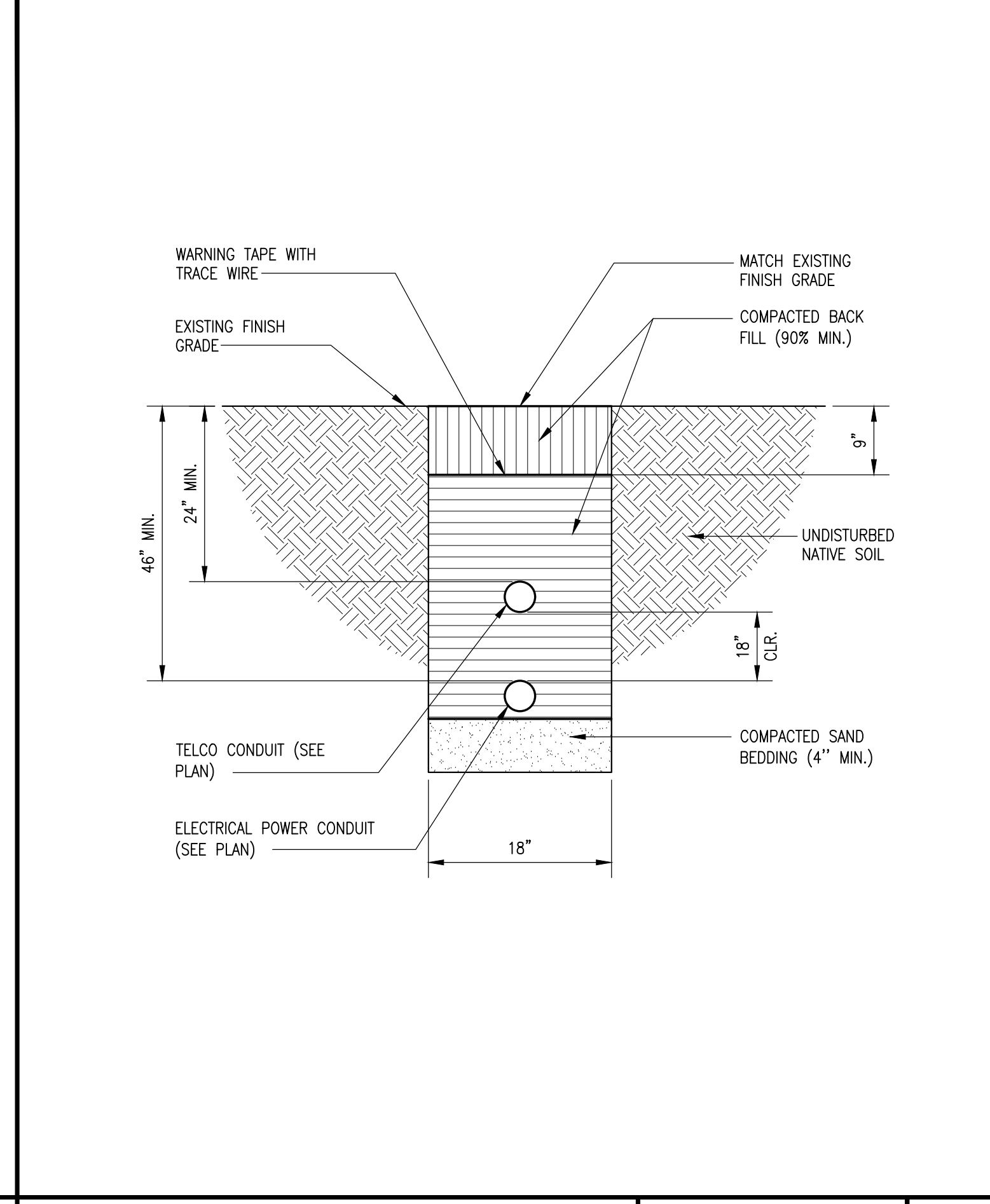


PANEL 'A' SCHEDULE											
120/208V, 1 PHASE, 3W					INTERSECT # INTERSECT #PTLC-ATS-3S-12200-CL_ATT						
200A BUS, 42 KAIC					200A MAIN BKR (COMMERCIAL PWR) 42 KAIC SERIES RATED						
MAIN BREAKER RATING (A): 200					SYSTEM VOLTAGE (V): 240						
DESCRIPTION	VA	chc	BKR	POSN	L1	L2	POSN	BKR	chc	VA	DESCRIPTION
RECTIFIER #1/2	2100	NC	30	1	2150		2	15	C	50	SMOKE DETECTOR
	2100	NC	30	3		2250	4	20	C	150	LIGHTING
RECTIFIER #3/4	2100	NC	30	5	2820		6	20	C	720	CONV OUTLETS
	2100	NC	30	7		2250	8	15	NC	150	EMERGENCY LTG
RECTIFIER #5/6	2100	NC	30	9	3844		10	40	NC	1744	HVAC #1
	2100	NC	30	11		3844	12	40	NC	1744	
RECTIFIER #7/8	2100	NC	30	13	2595		14		NC	495	FCU #1
	2100	NC	30	15		2595	16	15	NC	495	
RECTIFIER #9/10	2100	NC	30	17	2100		18		NC	0	HVAC #2 (NOTE 2)
	2100	NC	30	19		2100	20		NC	0	
RECTIFIER #11/12	2100	NC	30	21	2100		22		NC	0	FCU #2 (NOTE 2)
	2100	NC	30	23		2100	24	15	NC	0	
SPARE	-	-	30	25	180		26	15	NC	180	G.F.I (W.P)
NETSURE GFI	180	NC	15	29	180		30	20	NC	480	GEN BAT CHARGER
										600	GENERATOR HEATER
PHASE TOTALS (VA):				15969	15619						
CURRENT PER PHASE (A):				133.1	130.2				Amperes/phase cannot exceed main breaker rating		
PANEL TOTAL (VA):				31,588						Legend: c = continuous, nc = non-continuous	
PANEL CAPACITY (kVA):				48.0						CONNECTED LOAD (kVA): 31.6	
PANEL LOADING (100% non-cont. load) (kVA):				31.4							
PANEL LOADING (125% continuous load) (kVA):				0.3							
PANEL LOADING (TOTAL) (kVA):				31.7							
SPARE CAPACITY (kVA):				16.3							

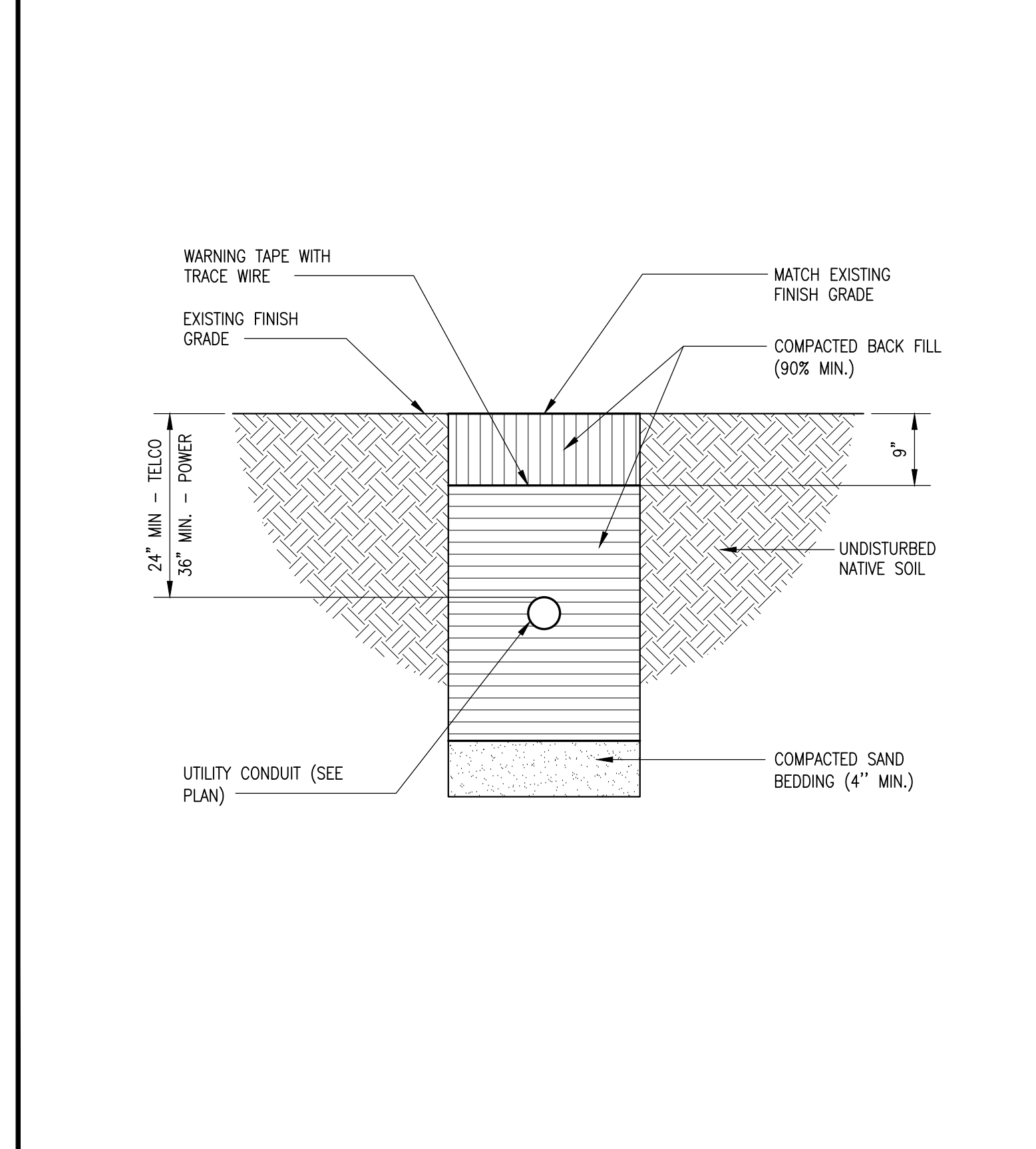
PANEL SCHEDULE NO SCALE 5



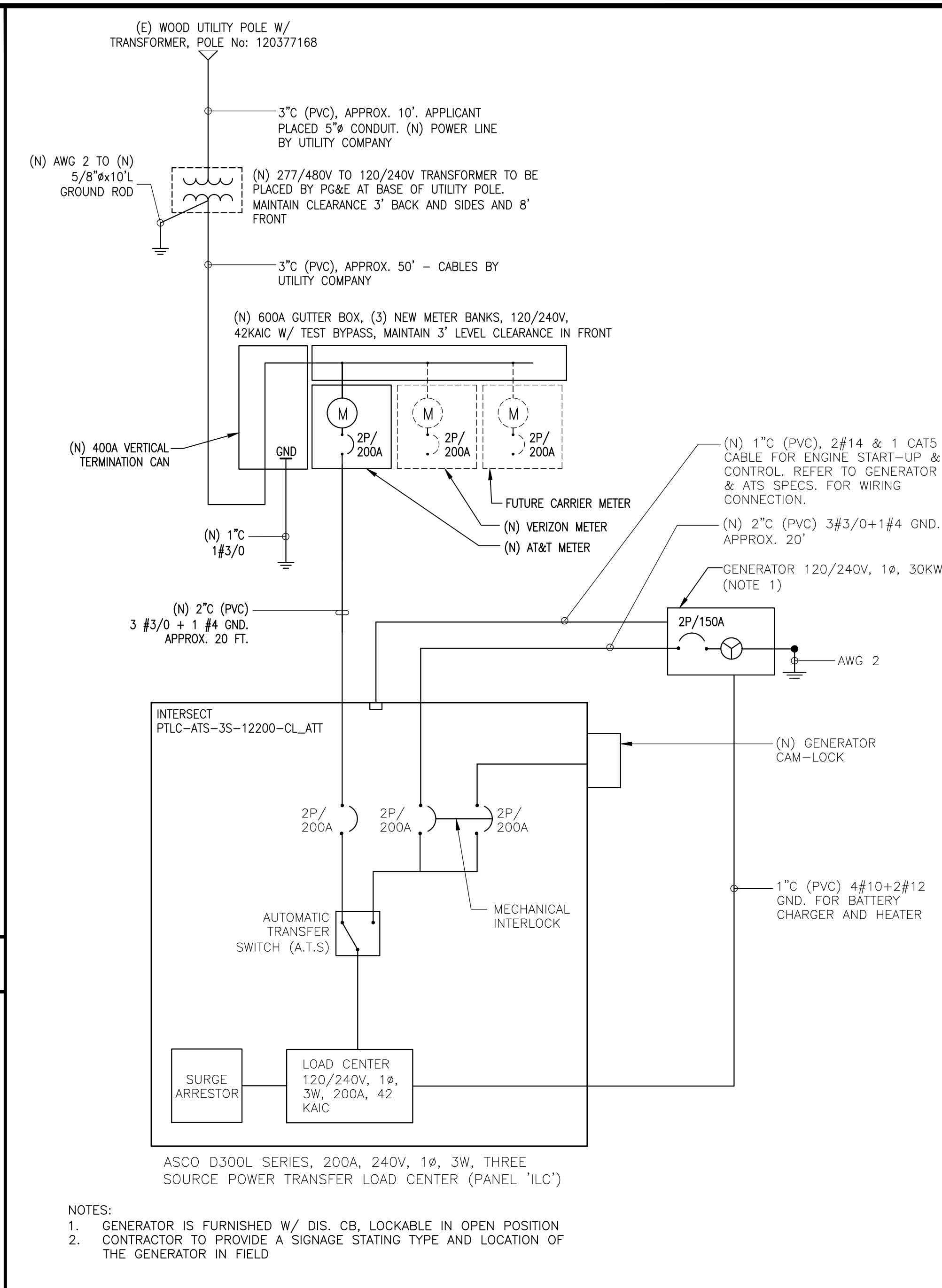
H-FRAME MOUNT METER DETAIL NO SCALE 6



JOINT TRENCH DETAIL NO SCALE 3



TRENCH DETAIL NO SCALE 4



PRELIM SINGLE LINE DIAGRAM NO SCALE 1

- ### ELECTRICAL GENERAL NOTES
- THE ELECTRICAL CONTRACTOR SHALL PAY ALL ELECTRICAL FEES FOR PERMITS, AND BE RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATING ALL ELECTRICAL INSPECTIONS.
  - ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE N.E.C. IN ADDITION TO ALL APPLICABLE LOCAL CODES.
  - ALL ELECTRICAL COMPONENTS SHALL BE U.L. LISTED.
  - CONTRACTOR SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT CONSTRUCTION SITE TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THEY WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT.
  - PROVIDE A PULL ROPE AND GREENLEE CONDUIT MEASURING TAPE IN TELEPHONE CONDUIT FOR BTS #1 REGARDLESS OF WHETHER CABLE IS INSTALLED OR NOT.
  - ALL PANELS, DISCONNECT SWITCHES, ETC. SHALL BE SUPPLIED WITH A LOCKABLE DEVICE PER AT&T REQUIREMENTS.
  - WET RATED CONDUCTORS SHALL BE USED FOR UNDERGROUND LOCATIONS.

NOTES NO SCALE 2

CONSULTANT

TSJ CONSULTING INC.  
27128 PASEO ESPADA, #A-1521  
SAN JUAN CAPISTRANO, CA 92675

APPLICANT

SITE INFORMATION

**CVL06558**  
PONY EXPRESS  
ATC-COLO  
5940 PONY EXPRESS TRL  
POLLOCK PINES, CA 95726

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

PROFESSIONAL STAMP

DATE STAMPED: 02/01/2023

SHEET TITLE

**SINGLE LINE, PANEL SCHEDULE & NOTES**

SHEET

**E-2**

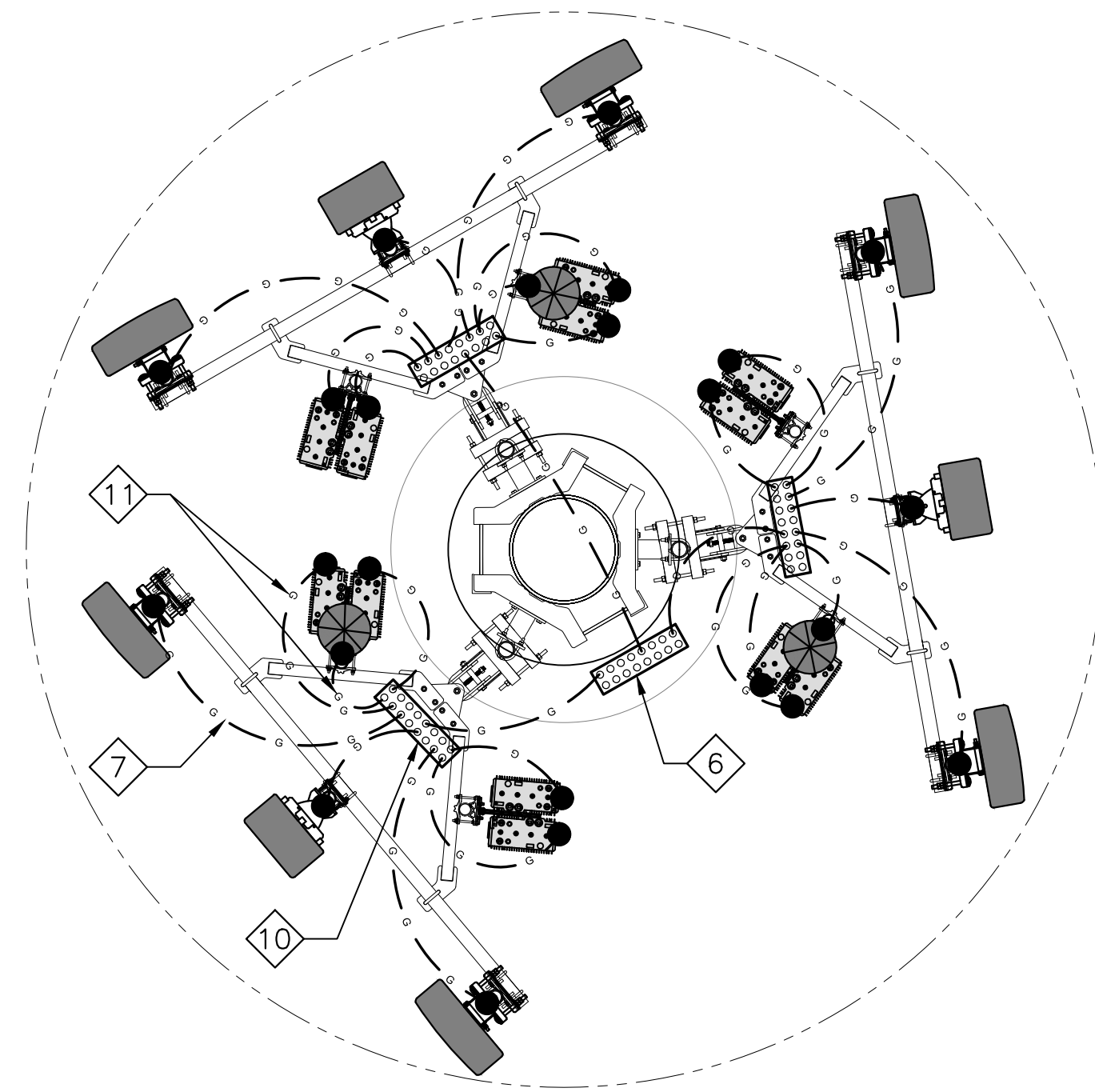
**GROUNDING LEGEND**

- EXOTHERMIC WELD CONNECTION
- COMPRESSION FITTING CONNECTION
- 5/8"x10" COPPER-CLAD STEEL GROUND ROD
- ⊙ 5/8"x10" COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
- PROPOSED GROUND WIRING
- - - EXISTING GROUND WIRING
- ▨ TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
- CGB COLLECTOR GROUND BAR
- MGB MAIN GROUND BAR

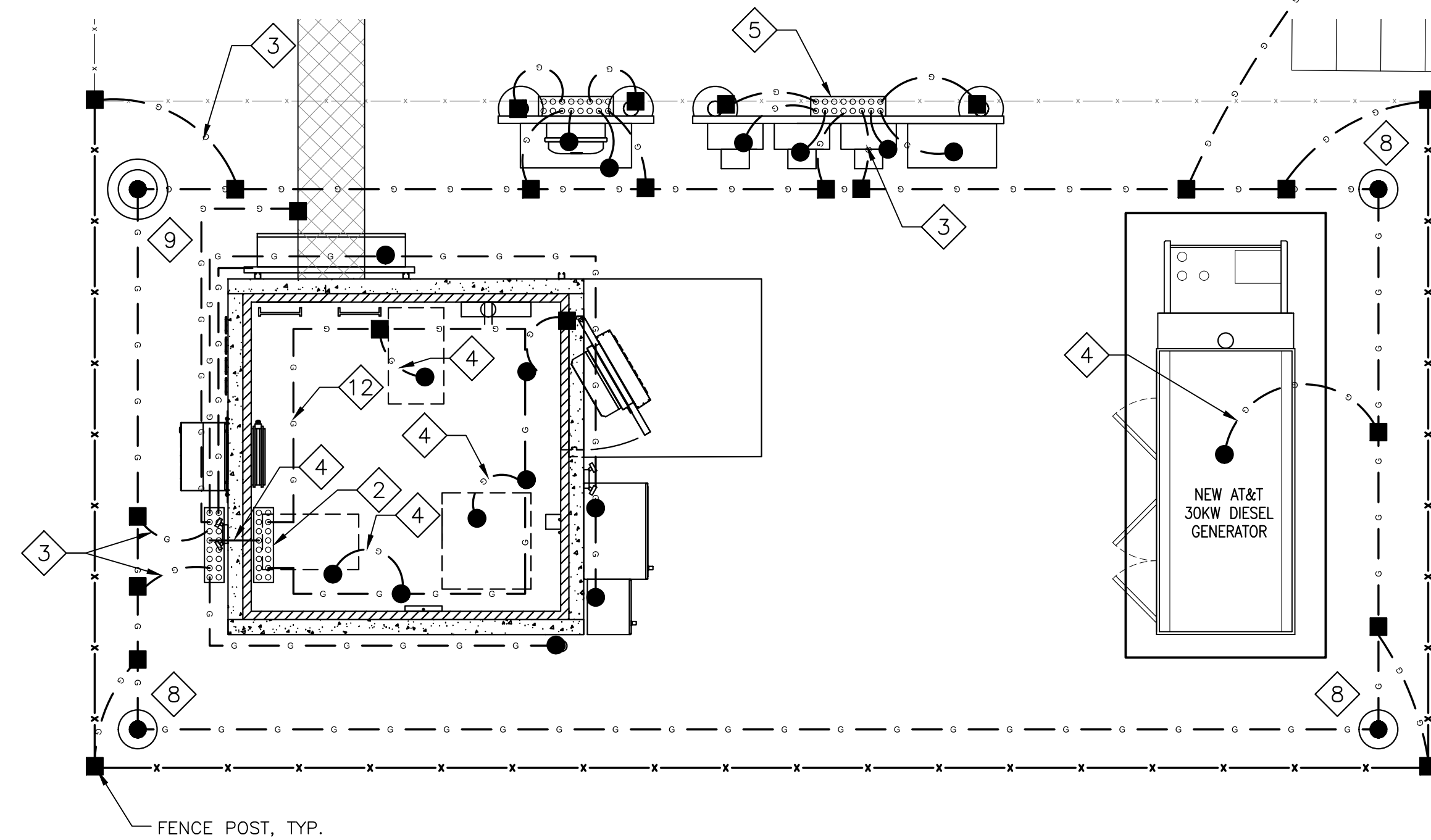
- NOTES:
1. PLAN DRAWINGS SHOWN HEREIN ARE DIAGRAMMATIC AND DOES NOT NECESSARILY DEPICT THE EXACT EQUIPMENT QUANTITIES, LOCATION, LAYOUT AND CONFIGURATION. REFER TO ARCHITECTURAL PLANS FOR EXACT EQUIPMENT LOCATION, LAYOUT AND CONFIGURATION.
  2. PLAN DRAWINGS SHOWN HEREIN DO SHOW THE NECESSARILY DEPICT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

**KEYNOTES**

- 1 (N) GROUND RING AWG 2 BARE COPPER GROUND WIRE BURIED 30" BELOW GRADE
- 2 (N) GROUND BAR INSIDE AND OUTSIDE OF W.I.C
- 3 (N) AWG 2 BARE COPPER WIRE TO GROUND RING
- 4 (N) AWG 2 INSULATED COPPER GROUND WIRE
- 5 GROUND BAR AT UTILITY H-FRAME
- 6 (N) ANTENNA GROUND BAR AT TOP & BOTTOM OF TOWER
- 7 (N) AWG 6 INSULATED COPPER GROUND FROM ANTENNA GROUND KIT
- 8 (N) GROUND ROD  $\frac{2}{-}$
- 9 (N) GROUND TEST WELL  $\frac{3}{-}$
- 10 ANTENNA GROUND BUS BAR AT EACH SECTOR
- 11 (N) AWG 2 INSULATED COPPER GROUND FROM RRU, SURGE SUPPRESSOR
- 12 (N) AWG 2 INSULATED COPPER GROUND WIRE (HALO GROUND) PROVIDED, INSTALLED AND CONNECTED TO EQUIPMENT INSIDE W.I.C BY MANUFACTURER



**ANTENNA GROUNDING**



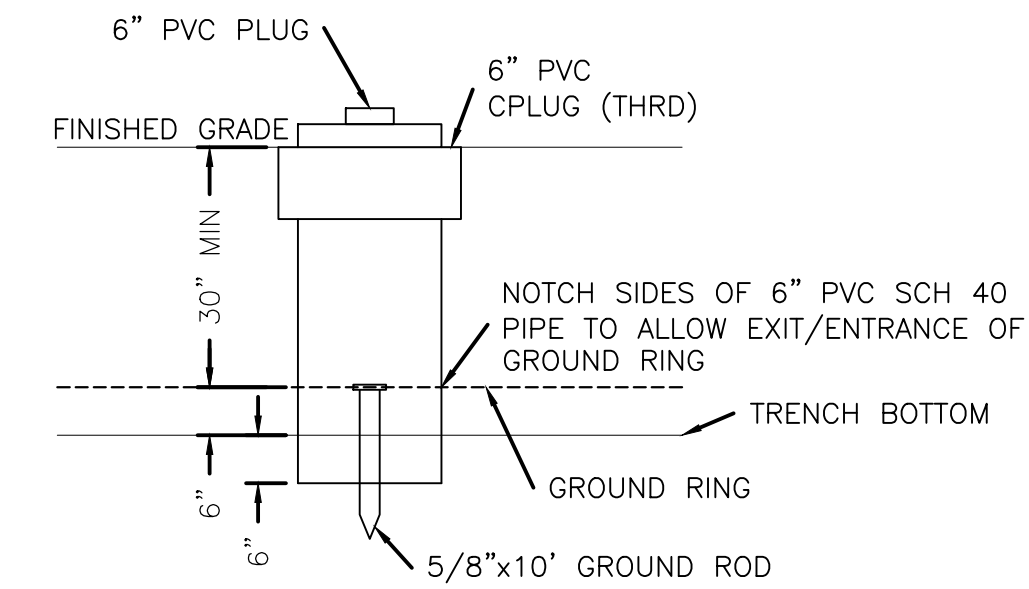
**EQUIPMENT GROUNDING**

NOTES:  
SEE SHEET A-3 FOR ADDITIONAL INFORMATION NOT SHOWN HERE

NOTE:  
SEE SHEET A-3 FOR ADDITIONAL INFORMATION NOT SHOWN HERE

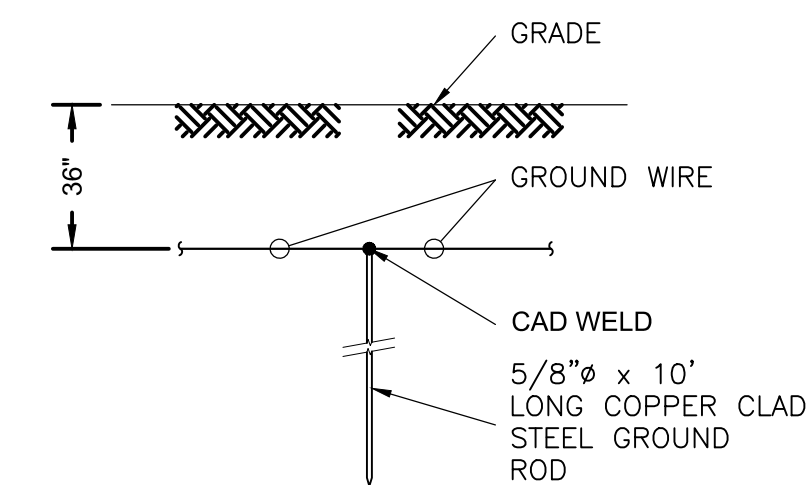
NOT USED

1



INSPECTION WELL DETAIL

2



GROUND ROD DETAIL

3

CONSULTANT

APPLICANT

SITE INFORMATION

**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
 5940 PONY EXPRESS TRL  
 POLLOCK PINES, CA 95726

DESIGN RECORD

REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

PROFESSIONAL STAMP

SHEET TITLE

**GROUNDING PLANS AND DETAILS**

SHEET

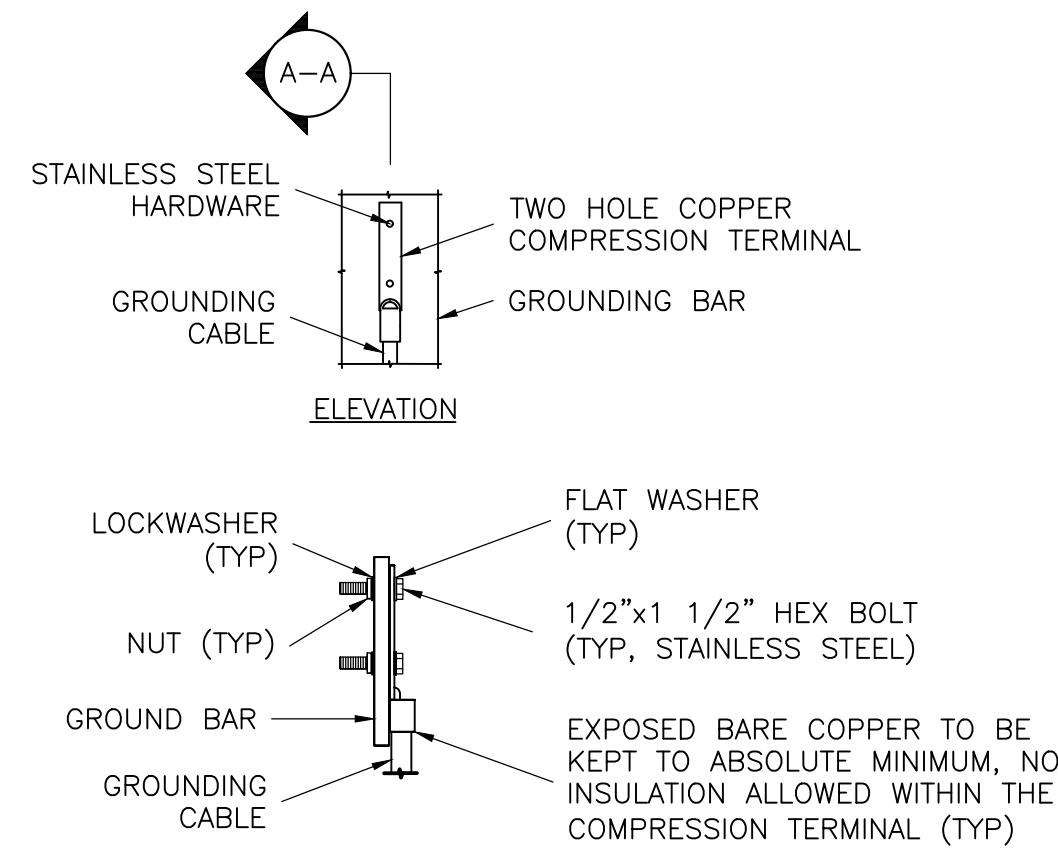
**G-1**

GROUNDING PLAN

4

**GROUNDING NOTES:**

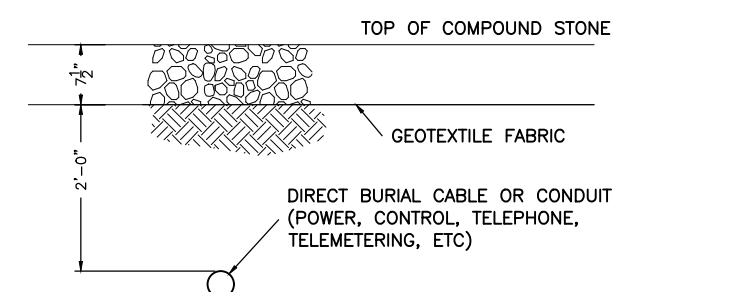
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A AT&T REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.



**NOTE:**  
 1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.  
 2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

**GROUND BAR CONNECTION**

4

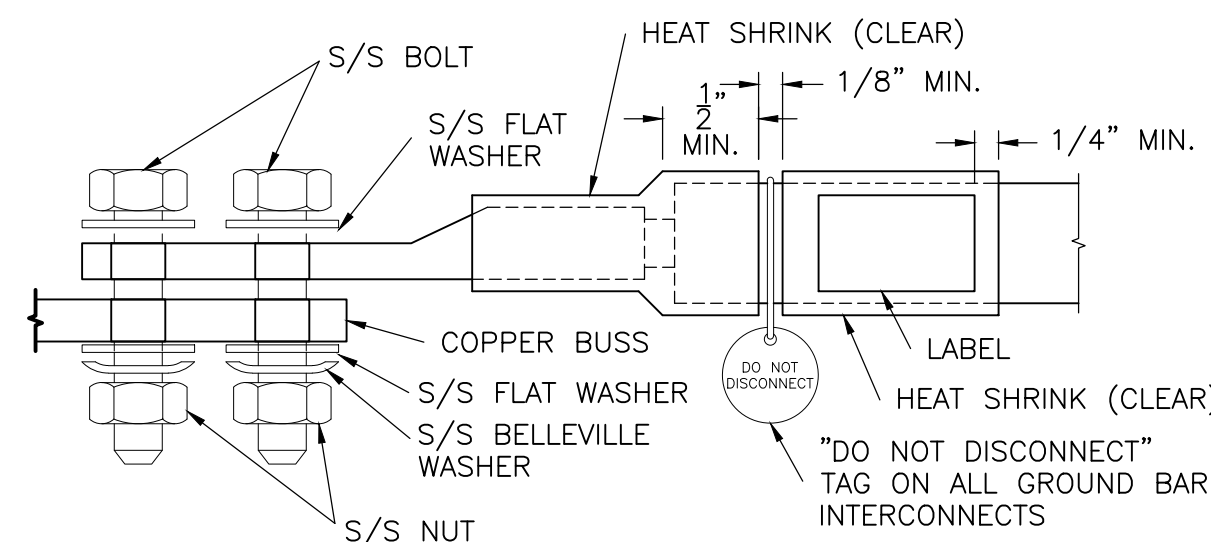


**INSTALLATION**  
 1. THE TAPE SHALL BE LAID DIRECTLY ABOVE THE CABLE OR CONDUIT UNDER RIGID TYPE AND OIL MAT PAVEMENTS, AND DIRECTLY ON TOP OF THE COMPACTED EARTH SUBGRADE IMMEDIATELY BEFORE RESTORING THE PAVEMENT.  
 2. IN OPEN AREAS, THE TAPE SHALL BE LAID DURING THE BACKFILLING OPERATION ON SMOOTH, COMPACTED BACKFILL AT A DISTANCE OF 8" BELOW THE SURFACE OF THE AREA.  
 3. THE ENDS OF THE TAPE SHALL BE LAPPED APPROXIMATELY SIX (6) INCHES.  
 4. TAPE SHALL BE THE COLOR AS INDICATED AND HAVE THE FOLLOWING MARKINGS:

RED	CAUTION	CAUTION	CAUTION
	BURIED ELECTRIC LINE BELOW		
ORANGE	CAUTION	CAUTION	CAUTION
	BURIED TELEPHONE LINE BELOW		

**STANDARD MARKER TAPE DETAIL**

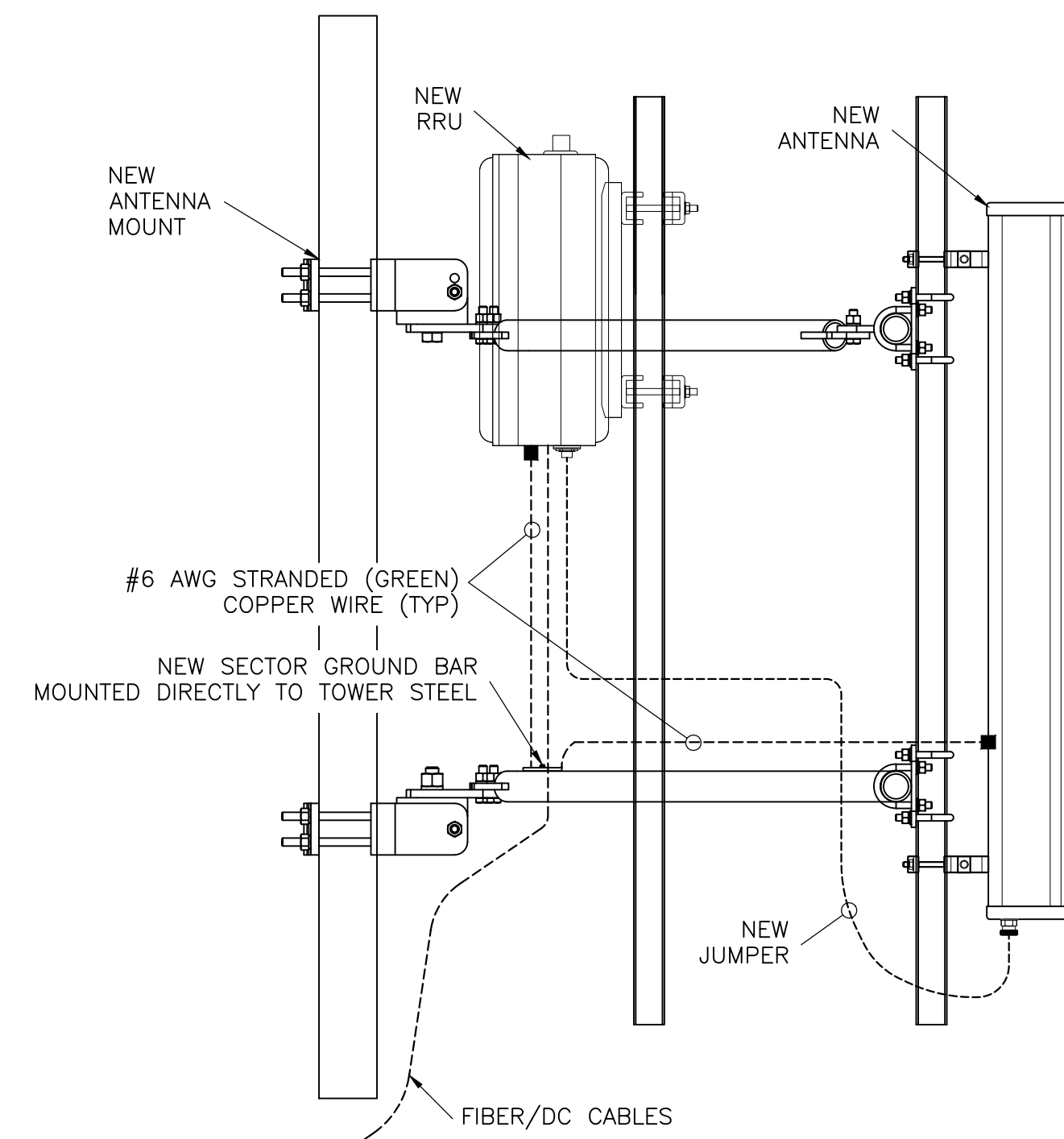
5



**NOTES:**  
 1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.  
 2. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.  
 3. COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.

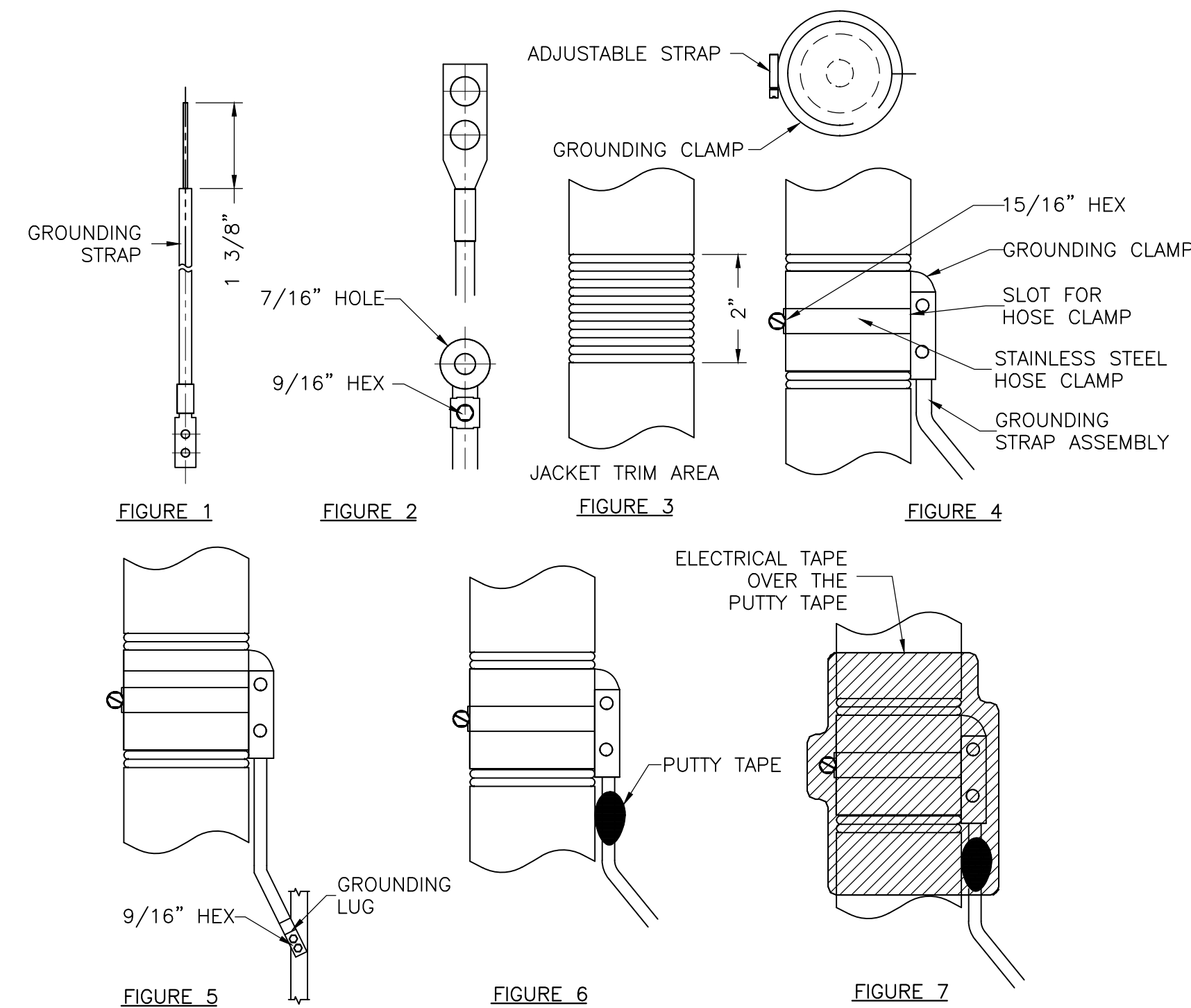
**GENERAL LUG DETAIL**

6



**ANTENNA & CABLE GROUNDING**

2

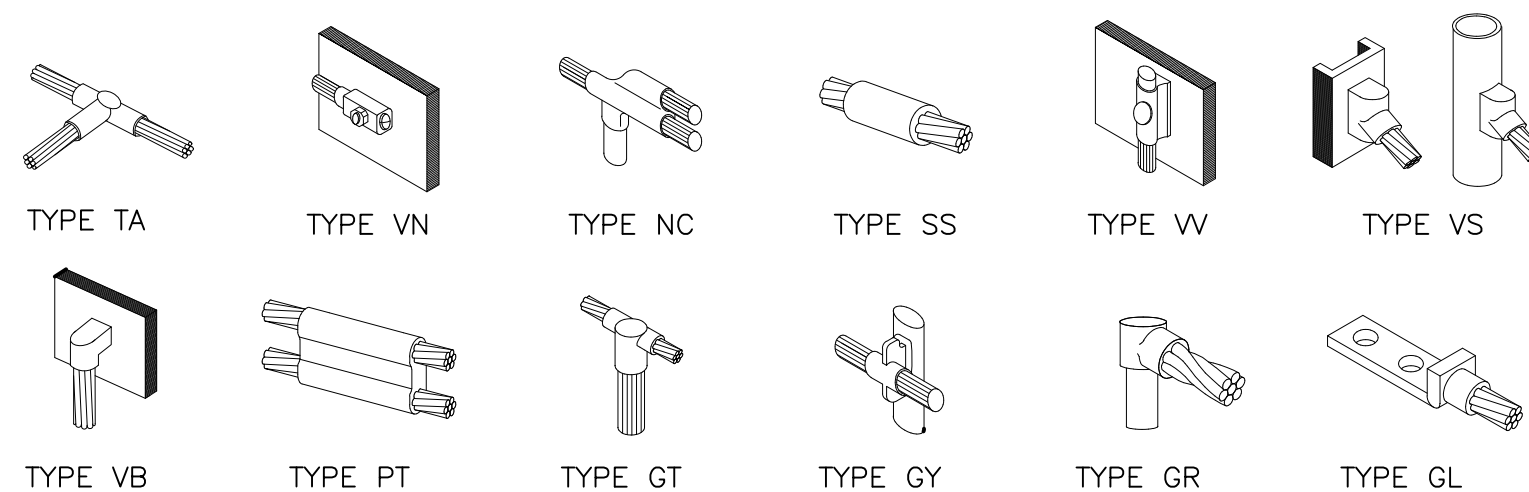


**GROUNDING STRAP WEATHERPROOFING DETAIL**

3

**NOTES**

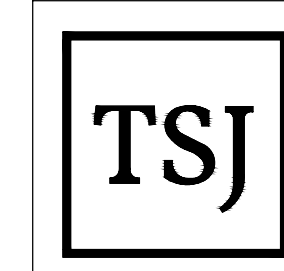
7



**CADWELD GROUNDING CONNECTION DETAILS**

8

CONSULTANT



TSJ CONSULTING INC.  
 27128 PASEO ESPADA, #A-1521  
 SAN JUAN CAPISTRANO, CA 92675

APPLICANT



SITE INFORMATION

**CVL06558**  
**PONY EXPRESS**  
**ATC-COLO**  
 5940 PONY EXPRESS TRL  
 POLLOCK PINES, CA 95726

DESIGN RECORD

**REVISIONS**

REV	DATE	DESCRIPTION	BY
1	11/22/22	100% CD	LE
0	10/18/22	90% CD	LE

PROFESSIONAL STAMP



SHEET TITLE

**GROUNDING NOTES AND DETAILS**

SHEET

**G-2**

**COUNTY OF EL DORADO - ENVIRONMENTAL MANAGEMENT DEPARTMENT**

2850 FAIRLANE COURT, PLACERVILLE, CA 95667 (530) 621-5300  
 3368 LAKE TAHOE BLVD. #303, SOUTH LAKE TAHOE, CA 96150 (530) 573-3450

**Hazardous Materials Statement  
 Solid Waste/Hazardous Materials Division (SW/HM)**

Owners Name:	Date:	Time:
Operators Name:	Business Lic. or Permit/Plan Check :	
Facility/Business Name:	Phone:	
Physical Address:	Mailing Address:	

**Brief Business Description:**

**Please answer Yes or No to the following questions:**

Note: The term "hazardous materials" includes gasoline, diesel, lubricating oils, solvents, flammable liquids and solids, toxic liquids and solids, corrosive liquids and solids, explosives, radioactive materials, and compressed gases, including propane when used for purposes other than facility heating.

<b>A. Will this facility have on site for any purpose individual liquid hazardous materials in quantities equal to or greater than 55 gallons regardless of container size?</b>	<b>Yes</b>	<b>No</b>
<b>B. Will this facility have on site for any purpose individual solid hazardous materials quantities equal to or greater than 500 pounds regardless of container size?</b>	<b>Yes</b>	<b>No</b>
<b>C. Will this facility handle individual compressed gases in quantities equal to or greater than 200 standard cubic feet regardless of container pressure?</b>	<b>Yes</b>	<b>No</b>
<b>D. Will this facility have on site for any purpose extremely hazardous substances in any quantity as specified in 40 CFR Part 355?</b>	<b>Yes</b>	<b>No</b>
<b>E. Do you own or operate any underground storage tanks?</b>	<b>Yes</b>	<b>No</b>
<b>F. Will this facility generate or treat hazardous waste in any quantity?</b>	<b>Yes</b>	<b>No</b>

If your facility will store reportable quantities of hazardous materials (55 gallons) or generate hazardous waste, prior to commencing operations the owner/operator must:

Prepare, submit and implement a hazardous materials business plan and pay appropriate fees.

- Obtain a hazardous waste generator identification number from the California Department of Toxic Substances Control.
- Train all employees to properly handle hazardous materials and wastes.
- Implement proper hazardous materials and hazardous waste storage methods in accordance with the Uniform Fire Code and Uniform Building Code.

Business owners and operators intending to handle hazardous materials in excess of reportable quantities are required by law to complete and file a hazardous materials business plan with our Department **prior to obtaining a business license or prior to having the materials onsite, whichever comes first.** Hazardous Materials Business Plan forms are available at [http://www.edcgov.us/Government/EMD/HazardousMaterials/Hazardous\\_Materials\\_Storage\\_Business\\_Plans.aspx](http://www.edcgov.us/Government/EMD/HazardousMaterials/Hazardous_Materials_Storage_Business_Plans.aspx)

**Certification: By signing below I acknowledge my responsibility to comply with the hazardous material and hazardous waste laws and regulations enforced by the EDC Environmental Management Department and agree to prepare and submit a plan when required.**

Applicant: *Tom Johnson* Date: \_\_\_\_\_

SW/HM Approval: _____	Date: _____
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**AT&T Mobility • Proposed Base Station (Site No. CVL06558)  
5940 Pony Express Trail • Pollock Pines, California**

**Statement of Hammett & Edison, Inc., Consulting Engineers**

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of AT&T Mobility, a wireless telecommunications carrier, to evaluate its proposed base station (Site No. CVL06558) proposed to be located at 5940 Pony Express Trail in Pollock Pines, California, for compliance with appropriate guidelines limiting sound levels from the installation.

**Executive Summary**

AT&T proposes to construct a base station at 5940 Pony Express Trail in the Pollock Pines area of unincorporated El Dorado County. Noise levels from the proposed operation will comply with the County's permitted limits.

**Prevailing Standard**

The County of El Dorado sets forth limits on sound levels in Chapter 130.37 "Noise Standards" of its Code of Ordinances, equal to the hourly averages listed in Table 130.37.060.1:

Land Use	Daytime <i>7 am to 7 pm</i>	Evening <i>7 pm to 10 pm</i>	Night <i>10 pm to 7 am</i>	Assessment Location <i>on adjacent property</i>
Community	55 dBA	50 dBA	45 dBA	at property line
Rural Region	50 dBA	45 dBA	40 dBA	100 ft from residence

Operation of back-up power generators to maintain wireless telecommunications service during an emergency, when commercial power is unavailable, is considered to be exempt from these limits under Section 130.37.020.B, which exempts "The use of any mechanical device, apparatus, or equipment related to or connected with emergency activities or emergency work to protect life or property." Similarly, periodic, no-load testing of the generator\* is considered to be exempt under Section 130.37.020.F, which exempts "Noise sources associated with work performed by public or private utilities† in the maintenance or modification of its facilities."

Figure 1 attached describes the calculation methodology used to determine applicable noise levels for evaluation against the prevailing standard.

**General Facility Requirements**

Wireless telecommunications facilities ("cell sites") typically consist of two distinct parts: the electronic transceivers ("radios" or "cabinets") that are connected to traditional wired telephone lines, and the antennas that send wireless signals created by the radios out to be received by individual subscriber units. The radios are located next to the antennas or at ground level, where they are typically mounted

\* Back-up power generators are typically exercised for a 15-minute period once a week during daytime hours on a non-holiday weekday.

† Wireless telecommunications carriers are regulated by the California Public Utilities Commission.



**AT&T Mobility • Proposed Base Station (Site No. CVL06558)  
5940 Pony Express Trail • Pollock Pines, California**

within individual cabinets that require environmental units to cool the electronics inside. Such cooling is often integrated into the cabinets, although external air conditioning may be installed when the cabinets are themselves housed within a larger enclosure.

Most cell sites have back-up battery power available, to run the base station for some number of hours in the event of a power outage. Many sites have back-up power generators installed, to run the station during an extended power outage.

**Site & Facility Description**

Based upon information provided by AT&T, including drawings by TSJ Consulting Inc., dated May 19, 2022, another carrier presently operates a wireless telecommunications facility sited within the fenced compound located on the north side of U.S. Highway 50, about 250 feet behind the two-story Best Western Stage Coach Inn, located at 5940 Pony Express Trail. That facility consists of antennas and radios on a pole, equipment contained within a shelter, and a back-up power generator.

AT&T proposes to install antennas and radios on a 20-foot extension above the existing 119-foot pole, configured to resemble a pine tree. AT&T proposes to install an equipment shelter within an extension to the existing fenced compound. For the limited purpose of this study, the two air-conditioning units<sup>‡</sup> are assumed to be one Marvair Model WAC200S on the west side of the shelter and one Marvair Model DAC200S on the east side. AT&T also proposes to install a Generac 30 kW diesel back-up power generator.

The nearest property line is about 40 feet away from the proposed equipment shelter; the land use designation of that parcel is zoned commercial, having no noise-sensitive uses. The nearest residential building is at the Pinecrest Mobile Home Park, about 270 feet to the east.

**Study Results**

The antennas and outdoor radios generate no noise. Marvair reports that the maximum noise level from its units is 62 dBA, measured at a reference distance of 5 feet. For the limited purpose of this study, the other carrier's existing equipment shelter is also assumed to use this air-conditioning unit. The maximum calculated noise level at 100 feet from the nearest residence, for the operation of both shelters' air-conditioning, is 34.9 dBA, meeting the County's most restrictive, nighttime limit of 40 dBA at such locations.

As noted above, the use and maintenance of the back-up power generators is exempt from the El Dorado County noise ordinance.

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<sup>‡</sup> These are typically installed as a pair for redundancy, such that both do not operate at the same time.

**AT&T Mobility • Proposed Base Station (Site No. CVL06558)  
5940 Pony Express Trail • Pollock Pines, California**

**Conclusion**

Based on the information and analysis above, it is the undersigned's professional opinion that the proposed installation of the back-up power generator at the AT&T Mobility base station at 5940 Pony Express Trail in the Pollock Pines area of unincorporated El Dorado County, California, will comply with the El Dorado County requirements for limiting acoustic noise emission levels.

**Authorship**

The undersigned author of this statement is a qualified Professional Engineer, holding California Registration Nos. E-13026 and M-20676, which expire on June 30, 2023. This work has been carried out under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.



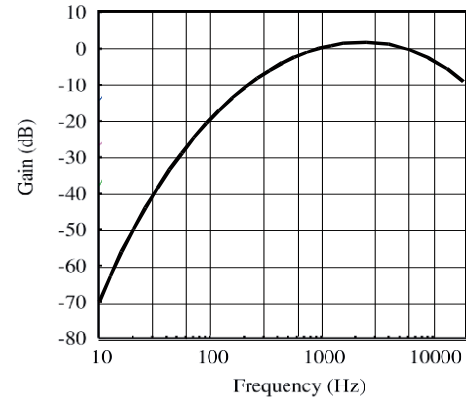
*William F. Hammett*

William F. Hammett, P.E.  
707/996-5200

October 7, 2022

## Noise Level Calculation Methodology

Most municipalities and other agencies specify noise limits in units of dBA, which is intended to mimic the reduced receptivity of the human ear to Sound Pressure (“L<sub>P</sub>”) at particularly low or high frequencies. This frequency-sensitive filter shape, shown in the graph to the right as defined in the International Electrotechnical Commission Standard No. 179, the American National Standards Institute Standard No. 5.1, and various other standards, is also incorporated into most calibrated field test equipment for measuring noise levels.



30 dBA	library
40 dBA	rural background
50 dBA	office space
60 dBA	conversation
70 dBA	car radio
80 dBA	traffic corner
90 dBA	lawnmower

The dBA units of measure are referenced to a pressure of 20 μPa (micropascals), which is the threshold of normal hearing. Although noise levels vary greatly by location and noise source, representative levels are shown in the box to the left.

Manufacturers of many types of equipment, such as air conditioners, generators, and telecommunications devices, often test their products in various configurations to determine the acoustical emissions at certain distances. This data, normally expressed in dBA at a known reference distance, can be used to determine the corresponding sound pressure level at any particular distance, such as at a nearby building or property line. The sound pressure drops as the square of the increase in distance, according to the formula:

$$L_P = L_K + 20 \log(D_K/D_P),$$

where L<sub>P</sub> is the sound pressure level at distance D<sub>P</sub> and L<sub>K</sub> is the known sound pressure level at distance D<sub>K</sub>.

Individual sound pressure levels at a particular point from several different noise sources cannot be combined directly in units of dBA. Rather, the units need to be converted to scalar sound intensity units in order to be added together, then converted back to decibel units, according to the formula:

where L<sub>T</sub> is the total sound pressure level and L<sub>1</sub>, L<sub>2</sub>, etc are individual sound pressure levels.

$$L_T = 10 \log (10^{L_1/10} + 10^{L_2/10} + \dots),$$

Certain equipment installations may include the placement of barriers and/or absorptive materials to reduce transmission of noise beyond the site. Noise Reduction Coefficients (“NRC”) are published for many different materials, expressed as unitless power factors, with 0 being perfect reflection and 1 being perfect absorption. Unpainted concrete block, for instance, can have an NRC as high as 0.35. However, a barrier’s effectiveness depends on its specific configuration, as well as the materials used and their surface treatment.



# ELECTROMAGNETIC ENERGY (EME) EXPOSURE REPORT

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Site Name: Pony Express ATC  
Site ID: CVL06558  
USID: 315737  
FA Location: 15725006  
CASPR#: 3701A12DFY  
PACE #: MRSFR088754

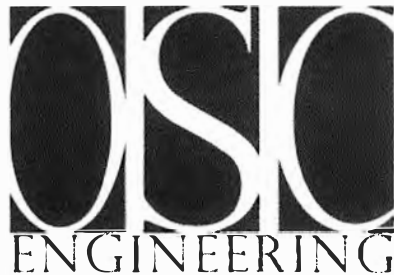
Site Type: Stealth Pole-External Array

Location: 5940 Pony Express Trl.  
Pollock Pines, CA 95726

Latitude (NAD83): 38.7544830  
Longitude (NAD83): -120.5981360

Report Completed: May 26, 2022  
AT&T M-RFSC Casey Chan

Prepared By:



Prepared for: AT&T Mobility  
c/o Qualtek  
1150 Ballena Boulevard  
Suite #259  
Alameda, CA 94501

CUP-R22-0028 Exhibit G: Radio Frequency (RF) Report

## **Site Compliance Conclusion**

***The AT&T site located at 5940 Pony Express Trl., Pollock Pines, CA will comply with FCC Guidelines.***

## **Executive Summary**

Occupational Safety & Compliance Engineering (OSC Engineering) has been contracted by Qualtek to conduct an RF (radio frequency) computer simulated analysis. The Federal Communications Commission (FCC) has set limits on RF energy exposed to humans on a wireless cell site. The FCC has also mandated that all RF wireless sites must be in compliance with the FCC limits and a compliance check should be performed routinely to ensure site compliance. Per AT&T Policy simulations are performed at 75% duty cycle other than UTMS (100%) or as noted. RoofMaster software was utilized in the creation of this report.

OSC Engineering uses the FCC OET-65 as well as AT&T Standards to make recommendations based on results and information gathered from drawings and Radio Frequency Data Sheets. Included in this analysis is an Ericsson AIR (TDD) power reduction factor (0.32) of the maximum to account for spatial distribution of served users, as recommended by AT&T, based on the United Nations International Telecommunication Union ITU-T Series K, Supplement 16 (20 May 2019).

A site-specific compliance plan is recommended for each transmitting site. This report serves as a single piece of the overall compliance plan.

### Site Overview and Description

- The antennas are mounted on a Stealth Pole-External Array
- The AT&T site consists of three (3) sectors with a total of nine (9) antennas
- The site is within a fenced in area, access to the site is via a gate
- The site is co-located with Unknown Antennas
- Co-located antennas are modeled with standard estimated values



### **Compliance Results of the Proposed Site (theoretical simulation)**

A result over 100% does not make a site out of compliance with FCC guidelines. For results over 100% of the FCC Limit, further remediation is required to consider the site compliant per FCC Guidelines. See the page entitled **RECOMMENDATIONS** for compliance actions required for FCC and AT&T Compliance. Areas exceeding the FCC Limit are demarcated with barriers and appropriate signage. Areas Outside of the demarcated areas are below the FCC Limits (under 100% GP). The remediation actions bring the site into compliance. Results are given in terms of the FCC General Population. Please see the page entitled **FCC MPE Limits (from OET-65)** for further information. On-site measurements may yield different results, as antennas do not always operate at full capacity.

#### **Maximum simulated RF Exposure Level from (cumulative ground):**

0.06 % FCC General Population MPE Limit

## Antenna Inventory

All technical data and specifications shown below are collected from drawings and/or documents provided by the client, as well as from online databases and/or a visit to this facility. Unknown wireless transmitting antennas are simulated using conservative values when information is not available.

Antenna	Operator	Frequency (MHz)	Antenna Type	Antenna Make	Antenna Model	Azimuth (°T)	Ground (Z) (Rad) (ft)
A1	AT&T LTE	700	Panel	Quintel	QD8612-3D	80	120.00
A1	AT&T 5G	850	Panel	Quintel	QD8612-3D	80	120.00
A1	AT&T LTE / 5G	1900	Panel	Quintel	QD8612-3D	80	120.00
A1	AT&T LTE / 5G AWS	2100	Panel	Quintel	QD8612-3D	80	120.00
A2	AT&T LTE WCS	2300	Panel	QUINTEL	QD868-2	80	120.00
A3	AT&T LTE	700	Panel	Quintel	QD8612-3D	80	120.00
A3	AT&T LTE	1900	Panel	Quintel	QD8612-3D	80	120.00
B1	AT&T LTE	700	Panel	Quintel	QD8612-3D	330	120.00
B1	AT&T 5G	850	Panel	Quintel	QD8612-3D	330	120.00
B1	AT&T LTE / 5G	1900	Panel	Quintel	QD8612-3D	330	120.00
B1	AT&T LTE / 5G AWS	2100	Panel	Quintel	QD8612-3D	330	120.00
B2	AT&T LTE WCS	2300	Panel	QUINTEL	QD868-2	330	120.00
B3	AT&T LTE	700	Panel	Quintel	QD8612-3D	330	120.00
B3	AT&T LTE	1900	Panel	Quintel	QD8612-3D	330	120.00
C1	AT&T LTE	700	Panel	Quintel	QD8612-3D	230	120.00
C1	AT&T 5G	850	Panel	Quintel	QD8612-3D	230	120.00
C1	AT&T LTE / 5G	1900	Panel	Quintel	QD8612-3D	230	120.00
C1	AT&T LTE / 5G AWS	2100	Panel	Quintel	QD8612-3D	230	120.00
C2	AT&T LTE WCS	2300	Panel	QUINTEL	QD868-2	230	120.00
C3	AT&T LTE	700	Panel	Quintel	QD8612-3D	230	120.00
C3	AT&T LTE	1900	Panel	Quintel	QD8612-3D	230	120.00

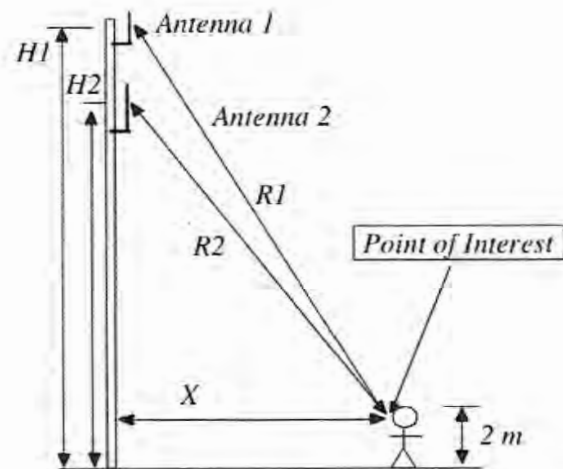
Antenna	Operator	Frequency (MHz)	Antenna Type	Antenna Make	Antenna Model	Azimuth (°T)	Ground (Z) (Rad) (ft)
L1	Co-Lo 1	1900	Panel	Unknown	Unknown	80	113.00
L2	Co-Lo 2	1900	Panel	Unknown	Unknown	80	113.00
L3	Co-Lo 3	1900	Panel	Unknown	Unknown	80	113.00
M1	Co-Lo 4	1900	Panel	Unknown	Unknown	330	113.00
M2	Co-Lo 5	1900	Panel	Unknown	Unknown	330	113.00
M3	Co-Lo 6	1900	Panel	Unknown	Unknown	330	113.00
O1	Co-Lo 7	1900	Panel	Unknown	Unknown	230	113.00
O2	Co-Lo 8	1900	Panel	Unknown	Unknown	230	113.00
O3	Co-Lo 9	1900	Panel	Unknown	Unknown	230	113.00

## CUP-R22-0028 Exhibit G: Radio Frequency (RF) Report

## FCC Regulations and Guidelines from OET 65

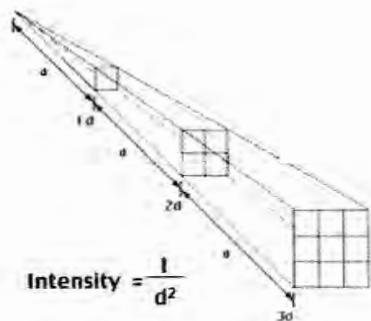
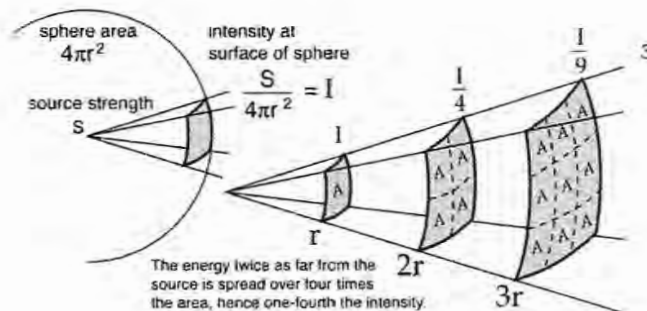
When considering the contributions to field strength or power density from other RF sources, care should be taken to ensure that such variables as reflection and re-radiation are considered. In cases involving very complex sites predictions of RF fields may not be possible, and a measurement survey may be necessary. The process for determining compliance for other situations can be similarly accomplished using the techniques described in this section and in Supplement A to this bulletin that deals with radio and television broadcast operations. However, as mentioned above, at very complex sites measurements may be necessary.

In the simple example shown in the below diagram, it is desired to determine the power density at a given location **X** meters from the base of a tower on which are mounted two antennas. One antenna is a CMRS antenna with several channels, and the other is an FM broadcast antenna. The system parameters that must be known are the total ERP for each antenna and the operating frequencies (to determine which MPE limits apply). The heights above ground level for each antenna, **H1** and **H2**, must be known in order to calculate the distances, **R1** and **R2**, from the antennas to the point of interest.



## Inverse Square Law

The inverse-square law, in physics, is any physical law stating that a specified physical quantity or intensity is inversely proportional to the square of the distance from the source of that physical quantity. The fundamental cause for this can be understood as geometric dilution corresponding to point-source radiation into three-dimensional space. The inverse-square law generally applies when some force, energy, or other conserved quantity is evenly radiated outward from a point source in three-dimensional space. Since the surface area of a sphere (which is  $4\pi r^2$ ) is proportional to the square of the radius, as the emitted radiation gets farther from the source, it is spread out over an area that is increasing in proportion to the square of the distance from the source.<sup>2</sup>



$$\frac{I_1}{I_2} = \frac{D_2^2}{D_1^2}$$

Where:  
 $I_1$  = Intensity 1 at  $D_1$   
 $I_2$  = Intensity 2 at  $D_2$   
 $D_1$  = Distance 1 from source  
 $D_2$  = Distance 2 from source

<sup>2</sup> [https://en.wikipedia.org/wiki/Inverse-square\\_law](https://en.wikipedia.org/wiki/Inverse-square_law)

<sup>3</sup> <http://hyperphysics.phy-astr.gsu.edu/hbase/Forces/isq.html>

<sup>4</sup> <https://www.nde-ed.org/GeneralResources/Formula/RTFormula/InverseSquare/InverseSquareLaw.htm>



**Result: Surrounding Building(s)**

The surrounding buildings will be below FCC MPE Limits for the General Population



**Certification**

The undersigned is a Professional Engineer, holding a California Registration No. 19677

Reviewed and approved by:



John Bachoua, PE

Date: May 26, 2022

The engineering and design of all related structures as well as the impact of the antennas on the structural integrity of the design are specifically excluded from this report's scope of work. This report's scope of work is limited to an evaluation of the Electromagnetic Energy (EME) RF emissions field generated by the antennas listed in this report. When client and others have supplied data, it is assumed to be correct.

### **FCC MPE Limits (from OET-65)**

**Occupational/controlled<sup>5</sup>** exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. As discussed later, the occupational/controlled exposure limits also apply to amateur radio operators and members of their immediate household.

**General population/uncontrolled<sup>6</sup>** exposure limits apply to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general public would always be considered under this category when exposure is not employment-related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

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<sup>5</sup> OET-65 "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields pg. 9.

<sup>6</sup> OET-65 "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields pg. 9.  
OSC Engineering Inc.

## Limits for Maximum Permissible Exposure (MPE)<sup>7</sup>

"The FCC Exposure limits are based on data showing that the human body absorbs RF energy at some frequencies more efficiently than at others. The most restrictive limits occur in the frequency range of 30-300MHz where whole-body absorption of RF energy by human beings is most efficient. At other frequencies whole-body absorption is less efficient, and, consequently, the MPE limits are less restrictive."<sup>8</sup>

### (A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100) <sup>*</sup>	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> ) <sup>*</sup>	6
32-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

### (B) Limits for General Population /Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100) <sup>*</sup>	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> ) <sup>*</sup>	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f= Frequency in MHz

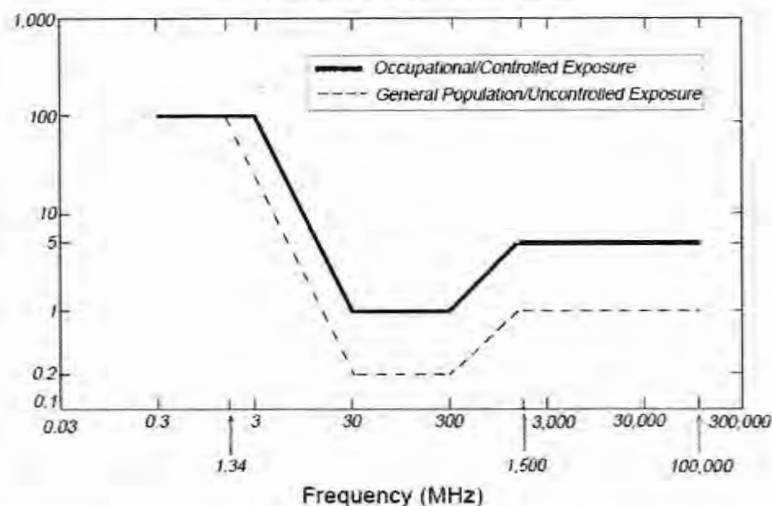
<sup>\*</sup>Plane-wave equivalent power density

<sup>7</sup> OET-65 "FCC Guidelines Table 1 pg. 72.

<sup>8</sup> OET-65 "FCC Guidelines for Evaluating Exposure to RF Emissions", pg. 8

**Limits for Maximum Permissible Exposure (MPE) continued<sup>9</sup>**

*Figure 1. FCC Limits for Maximum Permissible Exposure (MPE)  
Plane-wave Equivalent Power Density*



"MPE Limits are defined in terms of power density (units of milliwatts per centimeter squared: mW/cm<sup>2</sup>), electric field strength (units of volts per meter: V/m) and magnetic field strength (units of amperes per meter: A/m). In the far-field of a transmitting antenna, where the electric field vector (E), the magnetic field vector (H), and the direction of propagation can be considered to be all mutually orthogonal ("plane-wave" conditions), these quantities are related by the following equation:

$$S = \frac{E^2}{3770} = 37.7H^2$$

where: S = power density (mW/cm<sup>2</sup>)  
 E = electric field strength (V/m)  
 H = magnetic field strength (A/m)

<sup>9</sup> OET-65 "FCC Guidelines Table 1 pg. 72.

## **Limitations**

OSC Engineering completed this report based on information and data provided by the client and on-site data collection. The data provided by the client is assumed to be accurate. This report is completed by OSC Engineering to determine whether the wireless communications facility complies with the Federal Communications Commission (FCC) Radio Frequency (RF) Safety Guidelines. The Office of Engineering and Technology (OET-65) *Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Radiation* has been prepared to provide assistance in determining whether proposed or existing transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) fields adopted by the Federal Communications Commission (FCC)<sup>10</sup>. As the site is being upgraded and changed this report will become obsolete. A statistical factor reducing the actual power of the antenna system to 0.32 of maximum theoretical power is used to account for spatial distribution of users, network utilization, time division duplexing, and scheduling time. AT&T recommends the use of this factor based on a combination of guidance from its antenna system manufacturers, supporting international industry standards, industry publications, and its extensive experience. Use of this document will not hold OSC Engineering Inc. nor its employees liable legally or otherwise. This report shall not be used as a determination as to what is safe or unsafe on a given site; only for what is compliant per the FCC standards outlined in the OET-65. All workers or other people accessing any transmitting site should have proper EME awareness training. This includes, but is not limited to, obeying posted signage, keeping a minimum distance from antennas, watching EME awareness videos and formal classroom training.

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<sup>10</sup> OET-65 "FCC Guidelines for Evaluating Exposure to RF Emissions", pg. 1  
OSC Engineering Inc.

## **AT&T Antenna Shut-Down Protocol**

AT&T provides Lockout/Tagout (LOTO) procedures in Section 9.4<sup>11</sup> (9.4.1- 9.4.9) in the ND-00059. These procedures are to be followed in the event of anyone who needs access at or in the vicinity of transmitting AT&T antennas. Contact AT&T when accessing the rooftop near the transmitting antennas. Below is information regarding when to contact an AT&T representative.

### **9.4.7 Maintenance work being performed near transmitting antennas**

Whenever anyone is working within close proximity to the transmitting antenna(s), the antenna sector, multiple sectors, or entire cell site may need to be shut down to ensure compliance with the applicable FCC MPE limit. This work may include but is not limited to: structural repairs, painting or non-RF equipment services by AT&T personnel/contractors or the owner of a tower, water tank, rooftop, or other low-centerline sites. The particular method of energy control will depend on the scope of work (e.g., duration, impact to the antenna or transmission cabling, etc.) and potential for RF levels to exceed the FCC MPE limits for General Population/Uncontrolled environments

### **9.4.8 AT&T Employees and Contractors**

AT&T employees and contractors performing work on AT&T cell sites must be trained in RF awareness and must exercise control over their exposure to ensure compliance with the FCC MPE limit for Occupational/Controlled Environments ("Occupational MPE Limit").

The rule of staying at least 3 feet from antennas is no longer always adequate to prevent exposure above the Occupational MPE Limit. That general rule was applied early in the development of cellular when omni-directional antennas were primarily used and later when wide-beamwidth antennas were used. That application was then appropriate for the Occupational exposure category. However, the current prevalence of antennas with 60- and 70- degree horizontal half-power beamwidths at urban and suburban GSM and UMTS/HSDPA sites raises some question about the continued reliability of the 3-foot rule. Antennas with low bottom-tip heights and total input powers around 70-80 W can produce exposure levels exceeding the Occupational MPE Limits at 4 feet, and these levels can be augmented by emissions of co-located operators. Therefore, AT&T employees and contractors should apply the above general work procedures and use an RF personal monitor to assess exposure levels within the work vicinity.

### **9.4.9 Other Incidental Workers**

All other incidental workers who are not trained in RF safety are considered general public and subject to the FCC MPE limits for General Population/Uncontrolled Environments. In such instance, the M-RFSC (primary contact) or R-RFSC (secondary contact) must refer to the Mobility RF site survey plan to assess the potential RF exposure levels associated with the antenna system. If capable of exceeding the FCC General Population/Uncontrolled MPE limit, then local sector/site shutdown is necessary. The FE/FT must also follow the local shutdown procedure and use their RF personal monitor as a screening tool for verification, as necessary.

<sup>11</sup> ND-00059\_Rev\_5.1 "Lockout/Tagout (LOTO) Procedures" Page 45.

## RECOMMENDATIONS

• **AT&T Access Point(s):**

To be installed: Caution Sign 2B (Tower) @ base of monopole

• **AT&T Sector A**

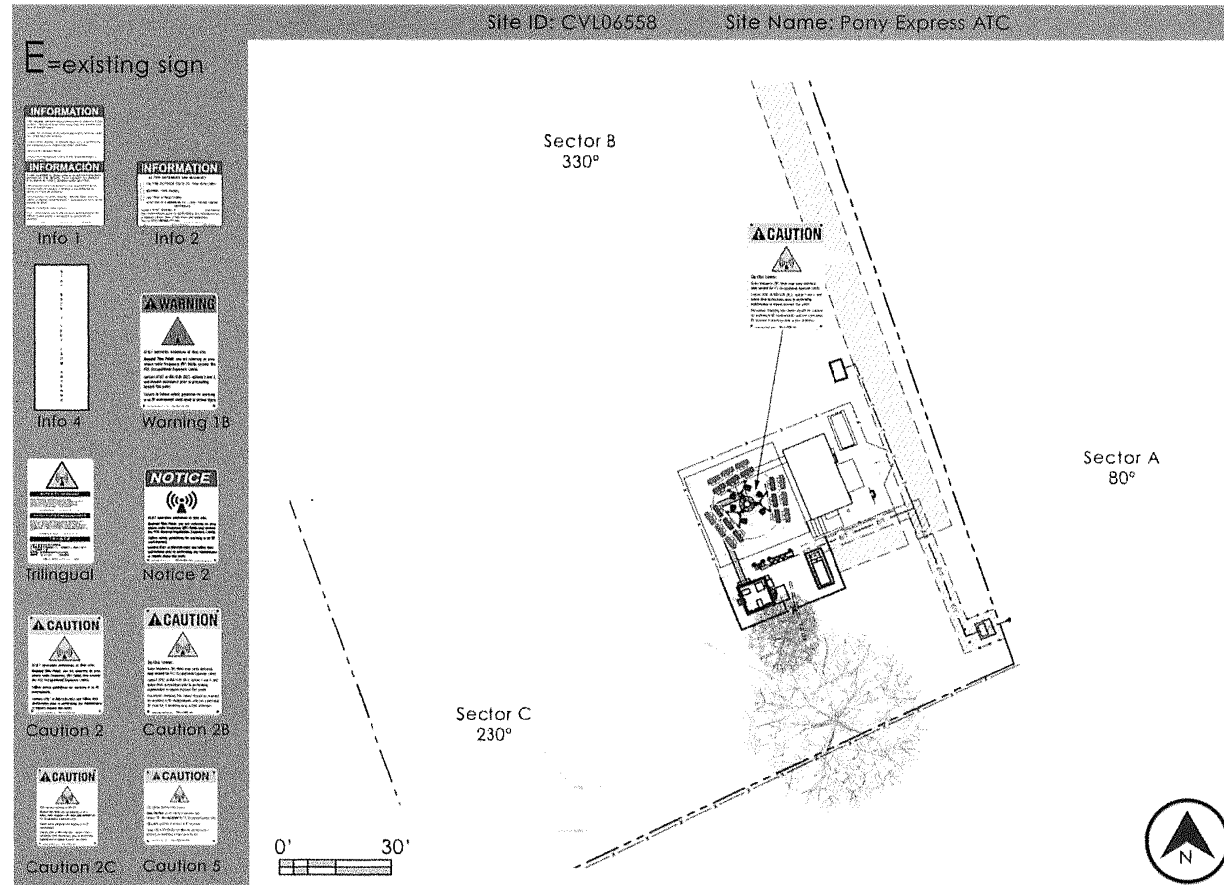
No signage or barrier action required

• **AT&T Sector B**

No signage or barrier action required

• **AT&T Sector C**

No signage or barrier action required

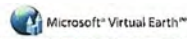


If work is being performed in the vicinity of the transmitting antennas, site shut-down procedures must be followed. See page entitled [AT&T Antenna Shut-down protocol](#) for further information.





LOCATION



View from the North to the South

EXISTING



PROPOSED



Completed May 27, 2022

# CVL06558

5940 Pony Express Trail  
Pollock Pines, CA 95726

## VIEW 1

APPLICANT

AT&T Mobility  
5001 Executive Pkwy.  
San Ramon, CA 94583

CONTACT

TSJ Consulting Inc.  
Tom Johnson  
27128 Paseo Espada #A-1521  
San Juan Capistrano, Ca. 92675  
p 925.785.3727



Photo simulation accuracy is based on information provided to Blue Water Design by the applicant.

BLUE WATER DESIGN

bluewater-design.net  
michelle@bluewater-design.net  
p 425-615-0944



LOCATION

Microsoft® Virtual Earth™



View from the East to the West

EXISTING



PROPOSED



Completed May 27, 2022

**CVL06558**

5940 Pony Express Trail  
Pollock Pines, CA 95726

**VIEW 2**

APPLICANT

AT&T Mobility  
5001 Executive Pkwy.  
San Ramon, CA 94583

CONTACT

TSJ Consulting Inc.  
Tom Johnson  
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San Juan Capistrano, Ca. 92675  
p 925.785.3727



BLUE WATER DESIGN

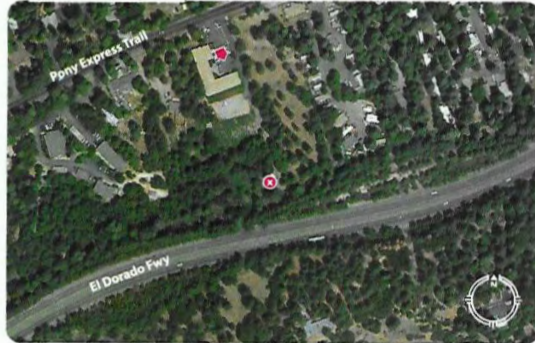
bluewater-design.net  
michelle@bluewater-design.net  
p 425-615-0944

Photo simulation accuracy is based on information provided to Blue Water Design by the applicant.



LOCATION

Microsoft® Virtual Earth™



View from the Northeast to the Southwest

EXISTING



PROPOSED



**CVL06558**

5940 Pony Express Trail  
Pollock Pines, CA 95726

**VIEW 3**

APPLICANT

AT&T Mobility  
5001 Executive Pkwy.  
San Ramon, CA 94583

CONTACT

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Completed May 27, 2022

BLUE WATER DESIGN

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