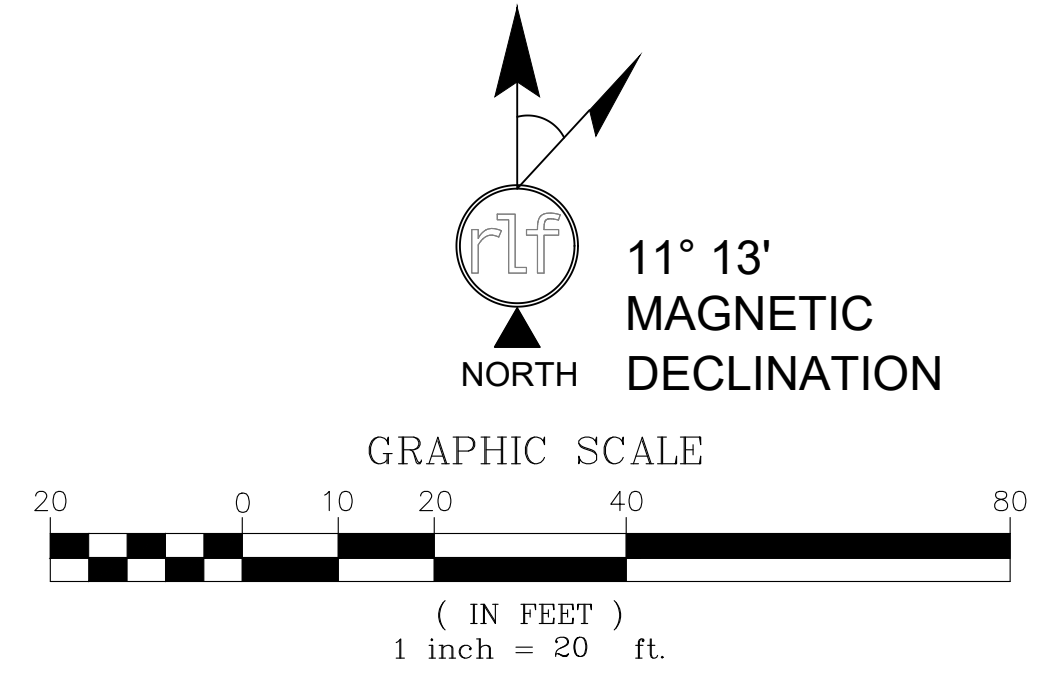
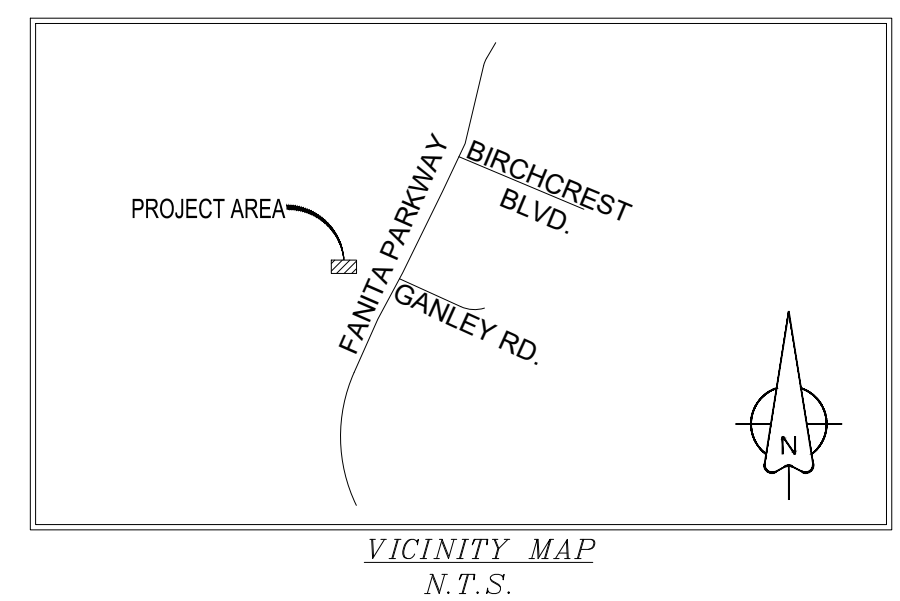


PROPOSED TOWER  
 CENTER OF GEODETIC COORDINATES  
 LAT. = 32° 52' 08.183" NORTH  
 32.868384 NORTH  
 LON. = 117° 00' 27.534" WEST  
 117.007648 WEST  
 ELEV. @ GROUND = 399.0'



**LEGEND**

- ⊗ BRASS CAP IN HANDHOLE (BCHH)
- ⊙ SANITARY SEWER MANHOLE
- 🌳 DECIDUOUS TREE
- BOLLARD
- 5280.00 NG SPOT ELEVATION
- ② SCHEDULE B HEX
- ⬇ POSITION OF GEODETIC COORDINATES
- PROPERTY LINE
- CENTERLINE
- CHAIN LINK FENCE

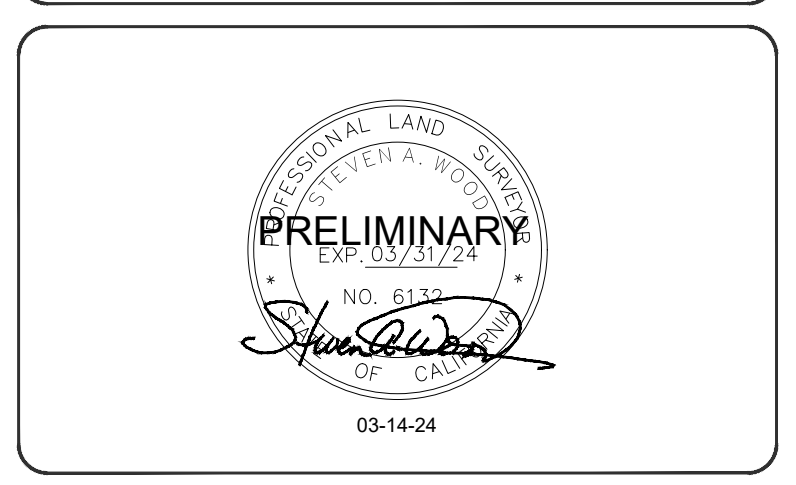
# ATLAS TOWER

USA • INTERNATIONAL



FIELD BY:	CEF
DRAWN BY:	JTJ
CHECKED BY:	RLF

REVISIONS		
NO.	DATE	DESCRIPTION
3	10/06/21	REVIEW DOCUMENTS
2	09/16/21	TOWER RELOCATION
1	09/15/21	TITLE REVIEW
0	08/12/21	PRELIMINARY



REUSE OF DOCUMENT  
 THE IDEAS & DESIGN INCORPORATED HEREON, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF RLF CONSULTING, LLC & IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF RLF CONSULTING, LLC.

PROJECT No.  
**130031080**

SITE NAME:  
**SANTEE**

SITE ADDRESS:  
 APN: 378-020-49-00  
 SANTEE, CA 92071

SHEET TITLE:  
**TOPOGRAPHIC SURVEY**

SHEET NO. <b>LS-2</b>	REVISION: <b>3</b>
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**GENERAL NOTES:**

- ALL REFERENCES TO TOWER OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED ATLAS TOWER 1, LLC OR IT'S DESIGNATED REPRESENTATIVE.
- ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF CALIFORNIA.
- STRUCTURE IS DESIGNED IN ACCORDANCE WITH ANSI/TIA/EIA-222-H, 2017, THIS CONFORMS TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION.
- WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2018 EDITION.
- UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
- ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
- ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
- ACCESS TO THE PROPOSED WORK SITE ON THE PROPERTY IS RESTRICTED AND CONTROLLED. THE CONTRACTORS SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY INCLUDING MATERIALS DELIVERY AND ACCESS WITH PROPERTY OWNER. ADDITIONALLY, THE GATE(S) MUST BE CLOSED AND LOCKED EACH TIME THE CONTRACTORS ENTER THE PROPERTY, GATE(S) MUST REMAIN CLOSED DURING ALL WORK. WHEN CONTRACTORS LEAVE THE PROPERTY THE GATE(S) MUST BE SECURED WITH THE LOCKS, THE GATE CABLE MUST BE LOCKED, AND THE PYLON MUST BE PLACED IN THE CENTER OF THE CABLE.
- BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
- ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
- 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN IT PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROFFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFTER MATERIAL SHALL BE REWORKED OR REPLACED.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN DIGGING, DRILLING, EXCAVATING, ETC. ON THE PROPERTY. ESPECIALLY SENSITIVE IS WORK IN AND NEAR THE 10' WIDE UTILITY EASEMENT AND BUILDINGS. THERE IS EXISTING INFRASTRUCTURE IN THIS AREA (UNDERGROUND UTILITIES, POWER LINES, WATER LINES, PUMPS, PIPES, WIRES, CISTERNS, IRRIGATION, PITS, DITCHES, DRAINAGE STRUCTURES, ETC.). THE PROPERTY OWNER MUST BE NOTIFIED IN ADVANCE OF ALL SUCH WORK AND MAY BE ON SITE FOR SUCH WORK. THE CONTRACTOR IS REQUIRED TO MAINTAIN AND PROTECT ALL EXISTING INFRASTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE BY FAILURE TO MAINTAIN THE EXISTING INFRASTRUCTURE IN OPERABLE CONDITION. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL EXISTING INFRASTRUCTURE AND ADDED STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE TOWER OWNER AND THE PROPERTY OWNER.
- ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
- ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

**STRUCTURAL STEEL NOTES:**

- THE FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, 9TH EDITION.
- UNLESS OTHERWISE NOTED, ALL STURCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - STRUCTURAL STEEL, ASTM DESIGNATION A36 OR A992 GR50.
  - ALL BOLTS, ASTM A325 TYPE I GALVANIZED HIGH STRENGTH BOLTS.
  - ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
  - ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANCE WITH AISC SPECIFICATIONS FOR MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
- HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
- HOT-DIP GALVANIZE ALL ITEMS ULESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE.
- REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICH PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING. CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
- A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
- ALL PROPOSED AN/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- ALL ASSEMBLY AND ANCHOR BOLTS ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN SECTION 8.1 OF THE AISC, "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". DATED JUNE 30, 2004.
- FLAT WASHERS ARE TO BE INSTALLED WITH BOLTS OVER SLOTTED HOLES.
- DO NOT OVER TORQUE ASSEMBLY BOLTS. GALVANIZING ON BOLTS, NUTS, AND STEEL PARTS; MAY ACT AS A LUBRICANT, THUS OVER TIGHTENING MAY OCCUR AND MAY CAUSE BOLTS TO CRACK AND SNAP OFF.
- PAL NUTS ARE TO BE INSTALLED AFTER NUTS ARE TIGHT AND WITH EDGE LIP OUT. PAL NUTS ARE NOT REQUIRED WHEN SELF-LOCKING NUTS ARE PROVIDED.
- GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
- WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-2010 STRUCTURAL WELDING CODE - STEEL.

PROJECT INFORMATION:

**SANTEE**


10400-CS FANITA PARKWAY  
SANTEE, CA 92071  
(SAN DIEGO COUNTY)

PLANS PREPARED FOR:

**ATLAS TOWER**

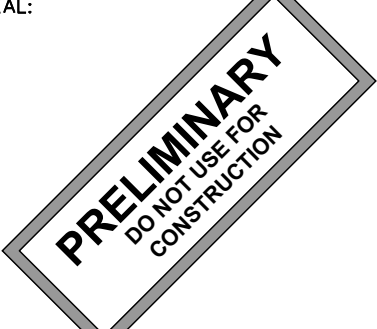
2500 30TH ST., SUITE 304  
BOULDER, CO 80301  
Office: (303) 448-8896

PLANS PREPARED BY:



4700 DAHLIA STREET  
DENVER, CO 80216  
OFFICE: (303) 566-9914  
www.tepgroup.net

SEAL:



4	08-02-24	PRELIMINARY
3	06-20-24	PRELIMINARY
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1	05-15-24	PRELIMINARY
0	04-08-24	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ASD CHECKED BY: KES

SHEET TITLE:

**GENERAL NOTES**

SHEET NUMBER: **N-1** REVISION: **4**

TEP#:305146.943556

### TOWER 1-A COORDINATES

LATITUDE: N 32° 52' 06.183" (NAD '83)  
 LONGITUDE: W 117° 00' 27.534" (NAD '83)  
 GROUND ELEVATION: 399.0'± (AMSL NAVD '88)

### LEGEND

- PARENT PROPERTY LINE
- - - - - ADJACENT PROPERTY LINE
- EASEMENT/LEASE CORNER
- Ⓜ EXIST. METER
- Ⓣ EXIST. TRANSFORMER
- Ⓢ EXIST. UTILITY POLE
- Ⓣ EXIST. TELCO PEDESTAL
- ⊙ PROPERTY CORNER
- - - 500 - - - EXIST. CONTOUR LINE
- /// EDGE OF PAVEMENT
- - - OHW - - - OVERHEAD WIRE
- - - F - - - BURIED FIBER
- - - G - - - GAS LINE
- - - R/W - - - RIGHT-OF-WAY
- X — FENCE
- EXISTING TREE LINE

### TOWER SETBACKS

PROPERTY LINE	REQUIRED	PROPOSED
NORTH	N/A	EXCEEDS
EAST	N/A	170'-0"±
SOUTH	N/A	EXCEEDS
WEST	N/A	687'-0"±

PROPOSED 1,900 SQ FT LEASE AREA BY ATLAS TOWER. SEE C-2 FOR DETAILS.

PROPOSED 74'-0" MONOPINE BY ATLAS TOWER. SEE ELEVATION ON SHEET C-4.

PROPOSED 20'-0" WIDE ACCESS AND UTILITY EASEMENT BY ATLAS TOWER.

EXISTING 12' ELECTRIC EASEMENT BY OTHERS RECORDING NO: 74-181902

EXISTING 12' COMMUNICATION EASEMENT BY OTHERS RECORDING NO: 130597

EXISTING 30' WATER EASEMENT RECORDING NOS: 77976 & 22786

EXISTING DRAINAGE EASEMENT RECORDING NO: 80-346612

PROPOSED 40'-0" WIDE ACCESS AND UTILITY EASEMENT BY ATLAS TOWER.

### NOTES:

1. BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM CALIFORNIA STATE PLANE COORDINATE ZONE VI, DETERMINED BY GPS OBSERVATIONS.
2. ELEVATIONS SHOWN HEREON ARE REPRESENTED IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ESTABLISHED FROM GPS DERIVED ELLIPSOID HEIGHTS, APPLYING GEOID 12B SEPARATIONS CONSTRAINING TO NGS CORS STATIONS PROVIDED IN THE "ONLINE POSITIONING USER SERVICE" (OPUS) SOLUTION FOR THIS SPECIFIC SITE.
3. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
4. PROPERTY LOCATED IN FLOOD ZONE "X", AREA DETERMINED TO BE OUTSIDE THE 0.2% CHANCE OF ANNUAL FLOOD BASED ON COMMUNITY-PANEL NO. 06073C1632G, EFFECTIVE DATE 05/16/2012.

### AREA PLAN

SCALE: 1" = 400'

PEBBLE BEACH DR

EXISTING LAKE

EXISTING LAKE

STRATHMORE DR

GANLEY RD

FANITA PKWY

BIRCHREST BLVD

STRATHMORE DR

CADWELL RD

APN: 378-020-49-00

405



### PROJECT INFORMATION:

## SANTEE

10400-CS FANITA PARKWAY  
 SANTEE, CA 92071  
 (SAN DIEGO COUNTY)

### PLANS PREPARED FOR:

# ATLAS TOWER

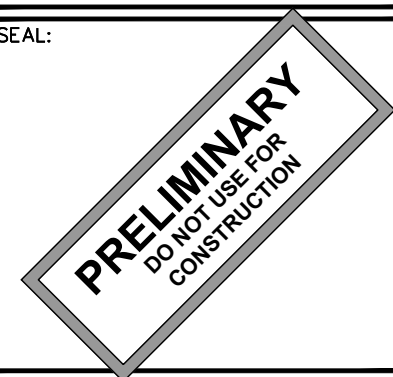
2500 30TH ST., SUITE 304  
 BOULDER, CO 80301  
 Office: (303) 448-8896

### PLANS PREPARED BY:



4700 DAHLIA STREET  
 DENVER, CO 80216  
 OFFICE: (303) 566-9914  
 www.tepgroup.net

### SEAL:



REV	DATE	ISSUED FOR:
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2	06-05-24	PRELIMINARY
1	05-15-24	PRELIMINARY
0	04-08-24	PRELIMINARY

DRAWN BY: ASD CHECKED BY: KES

### SHEET TITLE:

## AREA PLAN

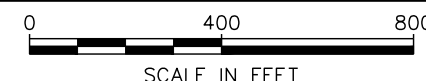
### SHEET NUMBER:

# C-1

### REVISION:

## 4

TEP#305146.943556



EXISTING TREE TO BE REMOVED BY ATLAS TOWER. (TYP OF 2)

PROPOSED 1,900 SQ. FT. LEASE AREA BY ATLAS TOWER. SEE C-3 FOR DETAILS.

PROPOSED CHAIN LINK FENCE BY ATLAS TOWER TO ATTACH TO EXISTING FENCE BY LANDLORD. SEE SHEET C-5 FOR DETAILS.

PROPOSED 74'-0" MONOPINE BY ATLAS TOWER. SEE ELEVATION ON SHEET C-4.

EXISTING CANOPY WITH SOLAR PANELS. (TYP OF 7)

PROPOSED 10'-WIDE UTILITY EASEMENT BY ATLAS

EXISTING SDG&E 277/480V, 3φ, PAD MOUNTED TRANSFORMER LOCATED WITHIN EXISTING FENCE

EXISTING 12' ELECTRIC EASEMENT BY OTHERS RECORDING NO: 74-181902

EXISTING 12' COMMUNICATION EASEMENT BY OTHERS RECORDING NO: 130597

APN: 378-020-49-00

EXISTING 30' WATER EASEMENT RECORDING NOS: 77976 & 22786

EXISTING DRAINAGE EASEMENT RECORDING NO: 80-346612

EXISTING BUILDING

PROPOSED 20'-0" WIDE ACCESS AND UTILITY EASEMENT BY ATLAS TOWER.



PROJECT INFORMATION:  
**SANTEE**  
10400-CS FANITA PARKWAY  
SANTEE, CA 92071  
(SAN DIEGO COUNTY)

PLANS PREPARED FOR:  
**ATLAS TOWER**  
2500 30TH ST., SUITE 304  
BOULDER, CO 80301  
Office: (303) 448-8896

PLANS PREPARED BY:  
**TEP**  
4700 DAHLIA STREET  
DENVER, CO 80216  
OFFICE: (303) 566-9914  
www.tepgroup.net

SEAL:  
**PRELIMINARY**  
DO NOT USE FOR CONSTRUCTION

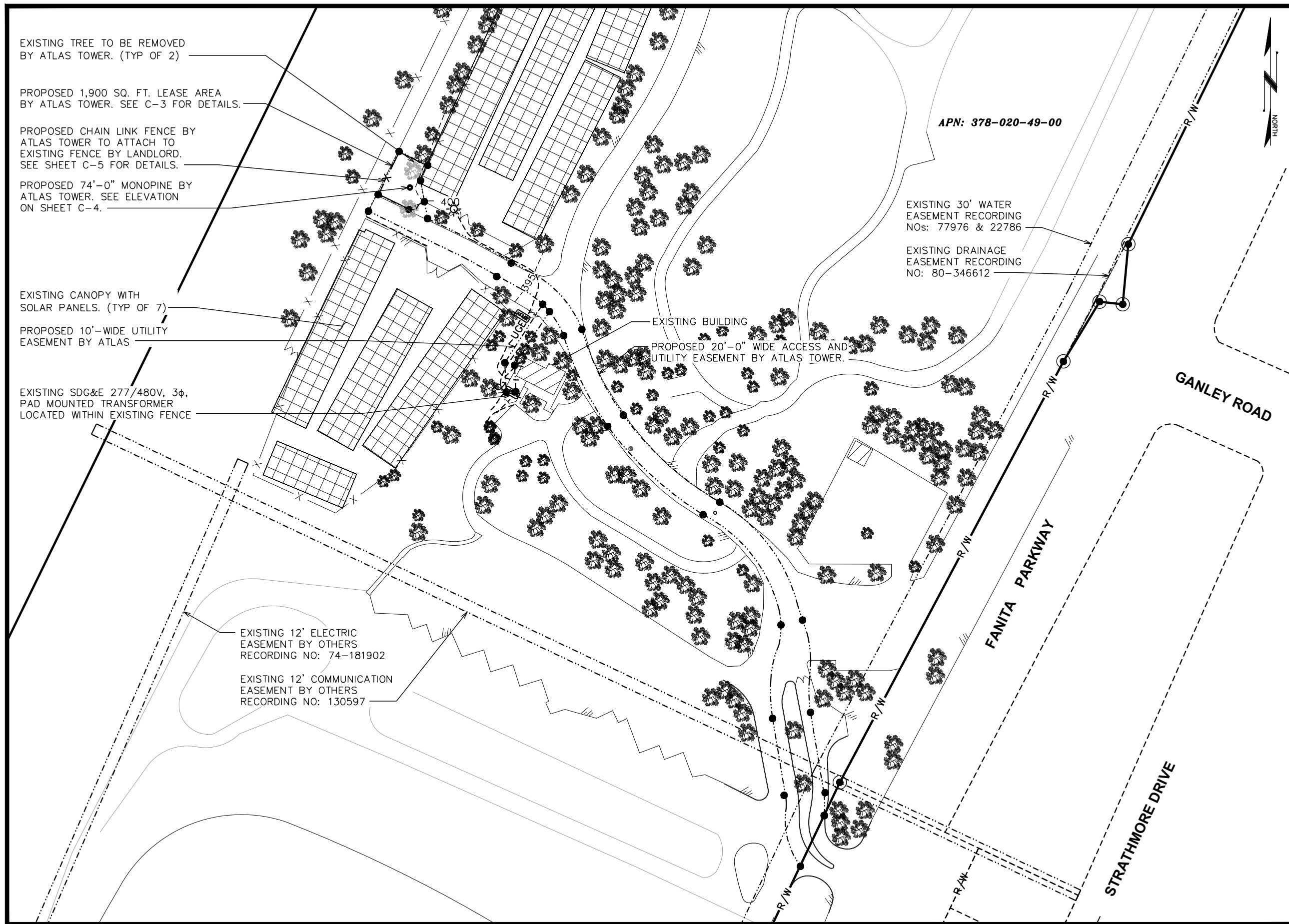
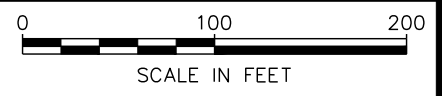
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REV	DATE	ISSUED FOR:

DRAWN BY: SIT CHECKED BY: KES

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER: **C-2** REVISION: **4**  
TEP#305146.943556

**SITE PLAN**  
SCALE: 1" = 100'





**NOTES:**

1. TOWER TO BE DISGUISED AS A FAUX EVERGREEN TREE USING NON-REFLECTIVE MATERIALS. REALISTIC FAUX PINE BARK WILL BE PROVIDED FROM 1' AGL TO 25' AGL. BROWN PAINT WILL CONCEAL THE MONOPOLE FORM 25' TO TOP.
2. ANTENNAS & MOUNTED EQUIPMENT TO BE PAINTED A NON-REFLECTIVE COLOR THAT EFFECTIVELY BLENDS WITH THE AREA. FINAL DETERMINATION OF COLOR SHALL BE SUBJECT TO APPROVAL OF THE REVIEW AUTHORITY.
3. ANTENNA SOCKS TO BE USED ON ALL PROPOSED ANTENNAS ON THE TOWER
4. TOWER SHALL NOT BE LIT UNLESS REQUIRED BY FEDERAL COMMUNICATIONS COMMISSION (FCC) OR FEDERAL AVIATION ADMINISTRATION (FAA).
5. PROPOSED COAX ROUTED INSIDE TOWER WITH HOISTING GRIPS.
6. TOWER NOT TO INCLUDE STEP PEGS OR SAFETY CLIMB.

74'-0"±  
T/LIGHTNING ROD

70'-0"  
T/TOWER

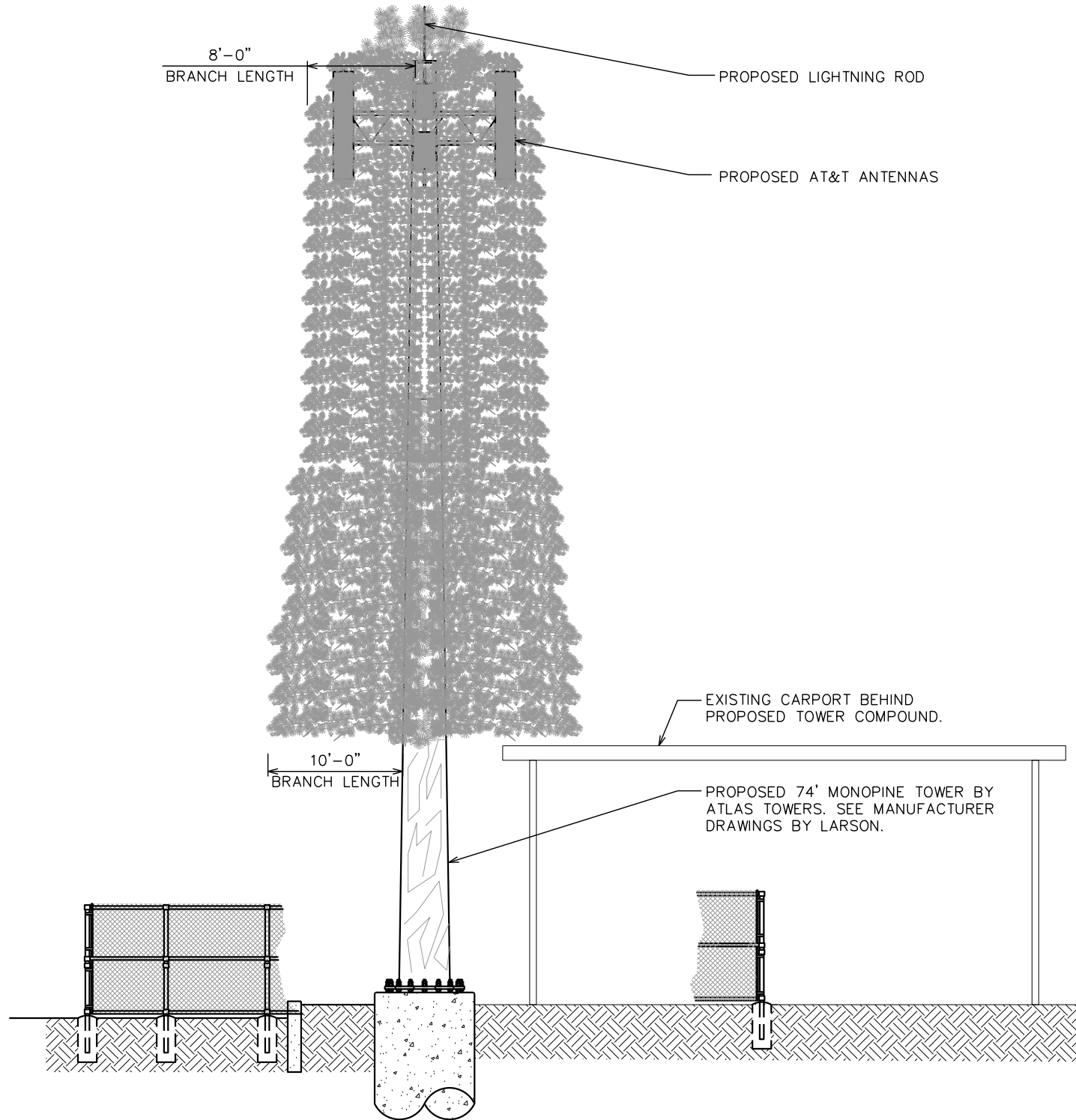
65'-0"±  
℄/AT&T ANTENNAS

55'-0"±  
℄/FUTURE ANTENNAS

45'-0"±  
℄/FUTURE ANTENNAS

20'-0"±  
B/BRANCHES

0'-0" (REF)  
T/GRADE



PROJECT INFORMATION:

**SANTEE**

10400-CS FANITA PARKWAY  
SANTEE, CA 92071  
(SAN DIEGO COUNTY)

PLANS PREPARED FOR:

**ATLAS TOWER**

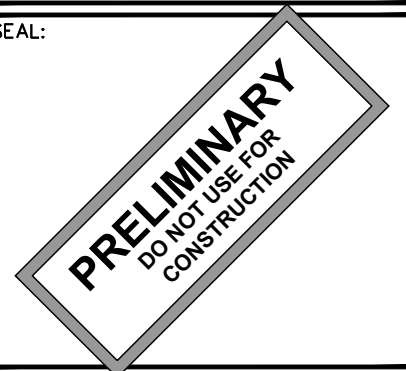
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SEAL:



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REV	DATE	ISSUED FOR:

DRAWN BY: ASD CHECKED BY: KES

SHEET TITLE:

**TOWER ELEVATION**

SHEET NUMBER:

**C-4**

REVISION:

**4**

TEP#305146.943556

**TOWER ELEVATION**

SCALE: 3/32" = 1'-0"





### ANTENNA/COAX SCHEDULE

SEC.	STATUS	AZ.	POSITION	QTY.	MFG.	MODEL	HxWxD (in)	SERVICE	ANT. TILT		RRH COUNT	SURGE PROTECTION	COAX/CABLE RUN	COAX/CABLE LENGTH	
									ANT. € (AGL)	ELEC MECH					
ALPHA "X"	PROPOSED	30°	A-1	1	COMMSCOPE	NNH4-65C-R6V3	95.9x19.6x7.75	700	65'-0"±	0°	0°	-	(1) 1¼" HYBRID CABLE	90'-0"±	
							AWS	(1) 4449 B5/B12							
	PROPOSED	30°	A-2	1	ERICSSON	AIR 6419 B77G AIR 6449 B77D (STACKED)	28.2x16.1x7.2 33.1x20.5x8.3	700	65'-0"±	0°	0°				-
							AWS	(1) 8843 B2/B66A							
	PROPOSED	30°	A-3	1	COMMSCOPE	NNH4-65C-R6V3	95.9x19.6x7.75	700	65'-0"±	0°	0°				(1) 4478 B14
							AWS	(1) 8843 B2/B66A							
BETA "Y"	PROPOSED	130°	B-1	1	COMMSCOPE	NNH4-65C-R6V3	95.9x19.6x7.75	700	65'-0"±	0°	0°	-	(1) 1¼" HYBRID CABLE	90'-0"±	
							AWS	(1) 4449 B5/B12							
	PROPOSED	130°	B-2	1	ERICSSON	AIR 6419 B77G AIR 6449 B77D (STACKED)	28.2x16.1x7.2 33.1x20.5x8.3	700	65'-0"±	0°	0°				-
							AWS	(1) 8843 B2/B66A							
	PROPOSED	130°	B-3	1	COMMSCOPE	NNH4-65C-R6V3	95.9x19.6x7.75	700	65'-0"±	0°	0°				(1) 4478 B14
							AWS	(1) 8843 B2/B66A							
GAMMA "Z"	PROPOSED	200°	C-1	1	COMMSCOPE	NNH4-65C-R6V3	95.9x19.6x7.75	700	65'-0"±	0°	0°	-	(1) 1¼" HYBRID CABLE	90'-0"±	
							AWS	(1) 4449 B5/B12							
	PROPOSED	200°	C-2	1	ERICSSON	AIR 6419 B77G AIR 6449 B77D (STACKED)	28.2x16.1x7.2 33.1x20.5x8.3	700	65'-0"±	0°	0°				-
							AWS	(1) 8843 B2/B66A							
	PROPOSED	200°	C-3	1	COMMSCOPE	NNH4-65C-R6V3	95.9x19.6x7.75	700	65'-0"±	0°	0°				(1) 4478 B14
							AWS	(1) 8843 B2/B66A							

NOTE:  
CONTRACTOR TO VERIFY WITH FINAL RFDS BEFORE  
ORDERING OR INSTALLING ANY EQUIPMENT.

PROJECT INFORMATION:

### SANTEE

10400-CS FANITA PARKWAY  
SANTEE, CA 92071  
(SAN DIEGO COUNTY)

PLANS PREPARED FOR:

## ATLAS TOWER

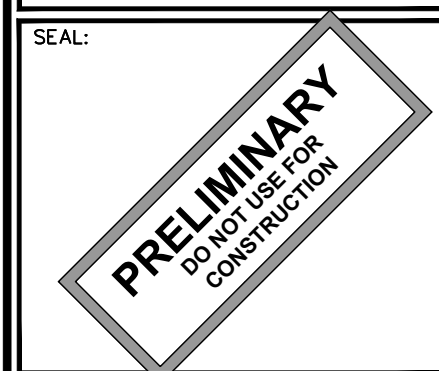
2500 30TH ST., SUITE 304  
BOULDER, CO 80301  
Office: (303) 448-8896

PLANS PREPARED BY:



4700 DAHLIA STREET  
DENVER, CO 80216  
OFFICE: (303) 566-9914  
www.tepgroup.net

SEAL:



4	08-02-24	PRELIMINARY
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DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

SHEET TITLE:

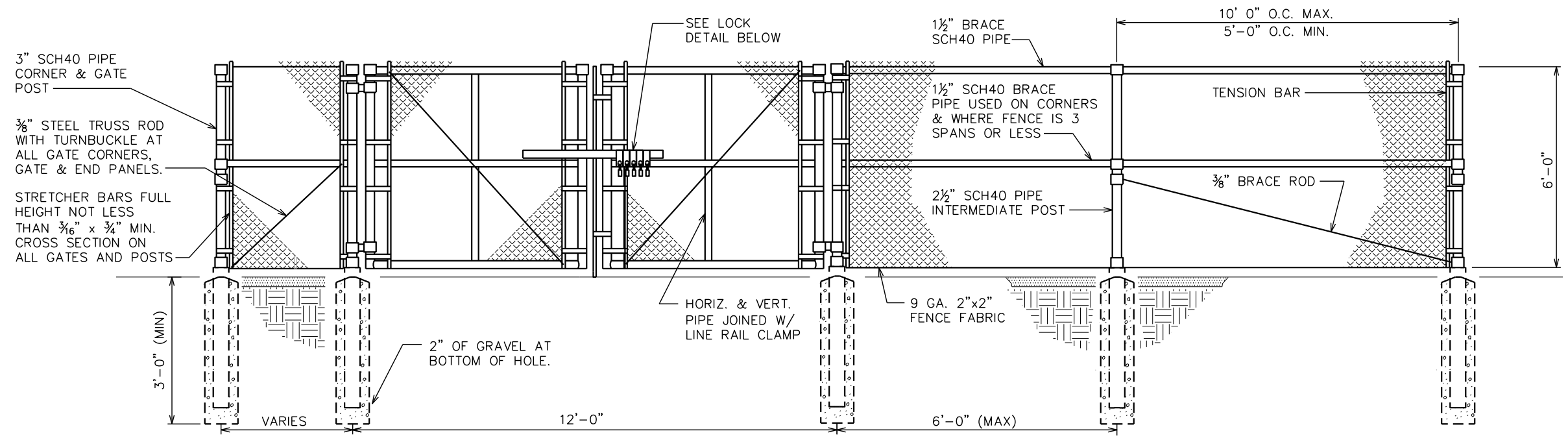
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SHEET NUMBER: \_\_\_\_\_ REVISION: \_\_\_\_\_

## C-5

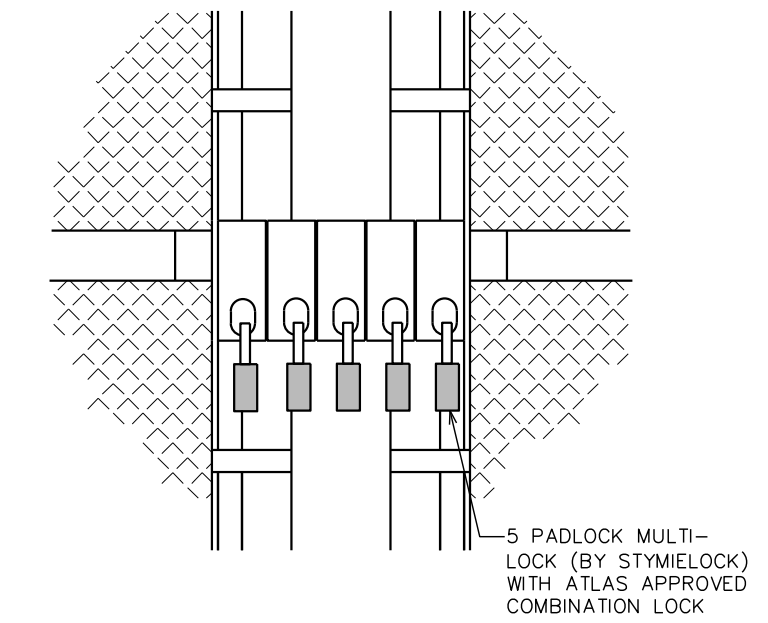
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TEP#:305146.943556



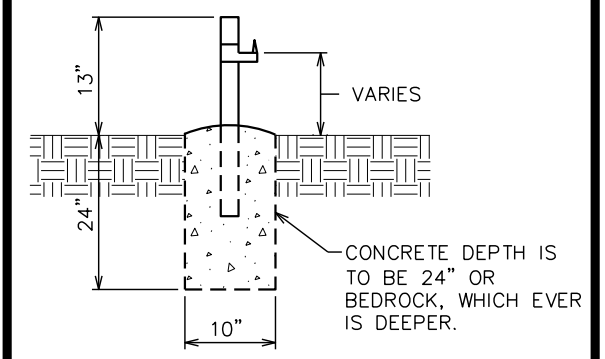
**TYPICAL FENCE ELEVATION**

SCALE: N.T.S.



**GATE LOCK DETAIL**

SCALE: N.T.S.

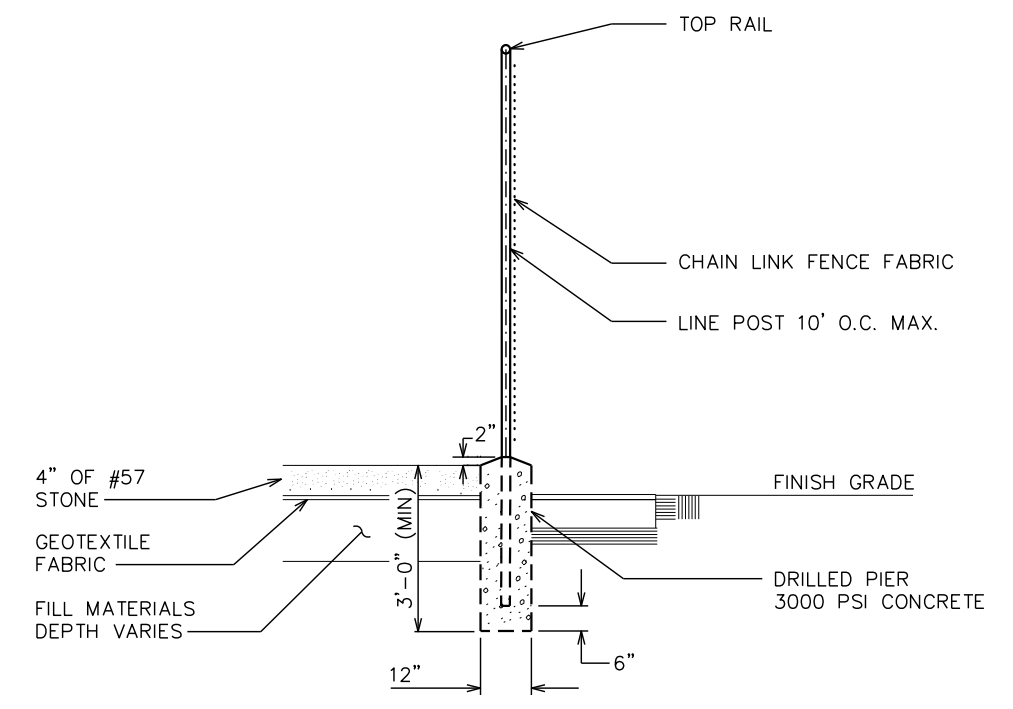


**GATE STOP/KEEPER DETAIL**

SCALE: N.T.S.

**NOTE:**

SAN DIEGO COUNTY  
FROST DEPTH IS 5".




**FENCE PROFILE DETAIL**

SCALE: N.T.S.

PROJECT INFORMATION:  
**SANTEE**  
10400-CS FANITA PARKWAY  
SANTEE, CA 92071  
(SAN DIEGO COUNTY)

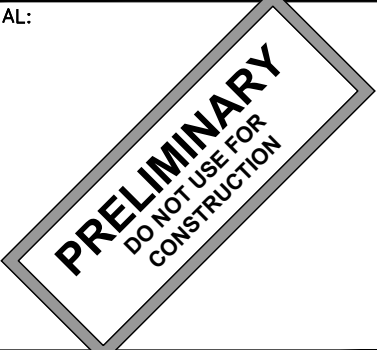
PLANS PREPARED FOR:  
**ATLAS TOWER**  
2500 30TH ST., SUITE 304  
BOULDER, CO 80301  
Office: (303) 448-8896

PLANS PREPARED BY:



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www.tepgroup.net

SEAL:



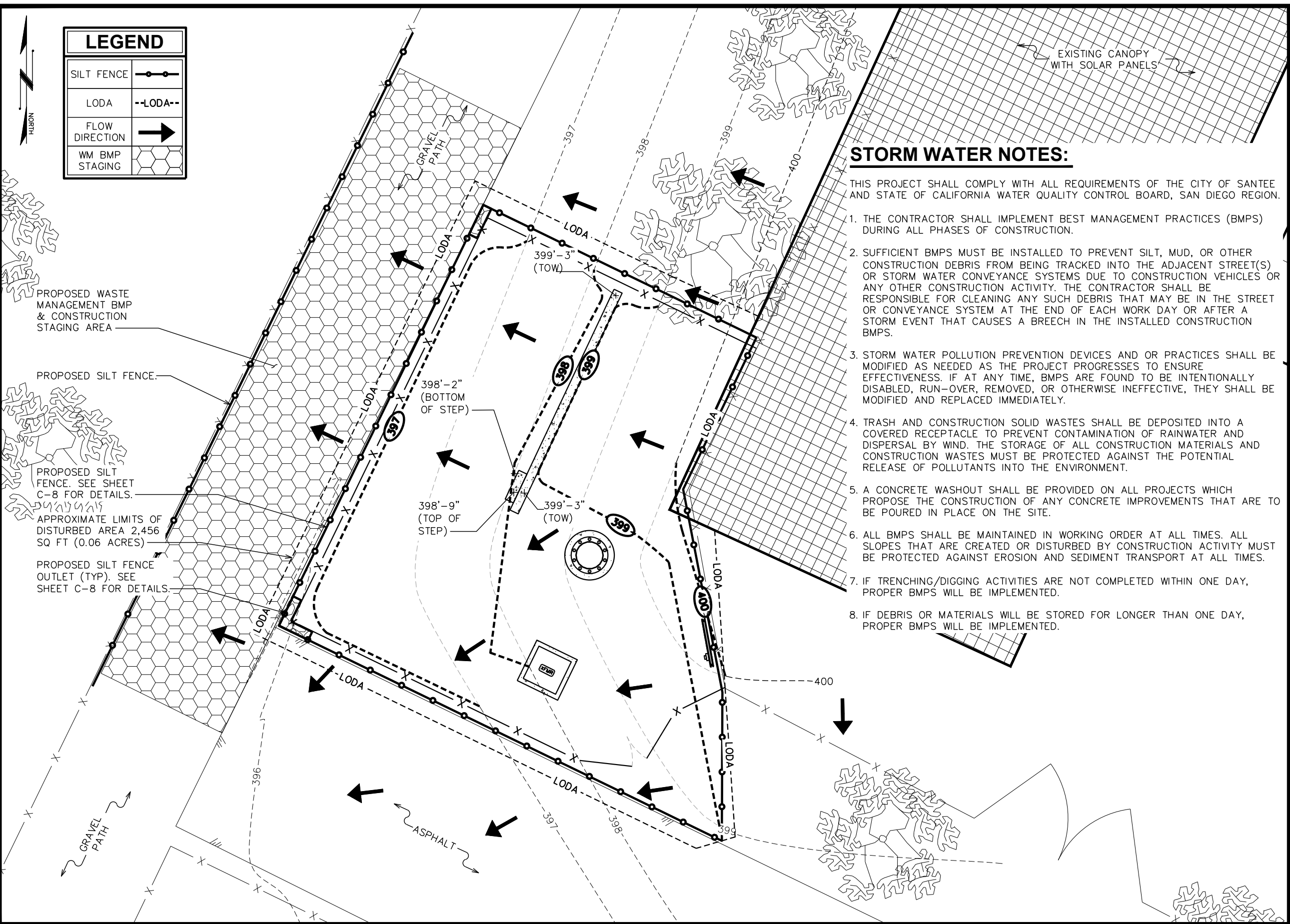
REV	DATE	ISSUED FOR:
4	08-02-24	PRELIMINARY
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1	05-15-24	PRELIMINARY
0	04-08-24	PRELIMINARY

DRAWN BY: ASD CHECKED BY: KES

SHEET TITLE:  
**FENCE DETAILS**

SHEET NUMBER: **C-6** REVISION: **4**  
TEP#:305146.943556

LEGEND	
SILT FENCE	
LODA	
FLOW DIRECTION	
WM BMP STAGING	



**STORM WATER NOTES:**

- THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE CITY OF SANTEE AND STATE OF CALIFORNIA WATER QUALITY CONTROL BOARD, SAN DIEGO REGION.
1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMPs) DURING ALL PHASES OF CONSTRUCTION.
  2. SUFFICIENT BMPs MUST BE INSTALLED TO PREVENT SILT, MUD, OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEMS DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET OR CONVEYANCE SYSTEM AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREACH IN THE INSTALLED CONSTRUCTION BMPs.
  3. STORM WATER POLLUTION PREVENTION DEVICES AND OR PRACTICES SHALL BE MODIFIED AS NEEDED AS THE PROJECT PROGRESSES TO ENSURE EFFECTIVENESS. IF AT ANY TIME, BMPs ARE FOUND TO BE INTENTIONALLY DISABLED, RUN-OVER, REMOVED, OR OTHERWISE INEFFECTIVE, THEY SHALL BE MODIFIED AND REPLACED IMMEDIATELY.
  4. TRASH AND CONSTRUCTION SOLID WASTES SHALL BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND CONSTRUCTION WASTES MUST BE PROTECTED AGAINST THE POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.
  5. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
  6. ALL BMPs SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
  7. IF TRENCHING/DIGGING ACTIVITIES ARE NOT COMPLETED WITHIN ONE DAY, PROPER BMPs WILL BE IMPLEMENTED.
  8. IF DEBRIS OR MATERIALS WILL BE STORED FOR LONGER THAN ONE DAY, PROPER BMPs WILL BE IMPLEMENTED.

PROJECT INFORMATION:  
**SANTEE**  
 10400-CS FANITA PARKWAY  
 SANTEE, CA 92071  
 (SAN DIEGO COUNTY)

PLANS PREPARED FOR:  
**ATLAS TOWER**  
 2500 30TH ST., SUITE 304  
 BOULDER, CO 80301  
 Office: (303) 448-8896

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SEAL:

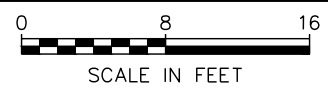
REV	DATE	ISSUED FOR:
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1	05-15-24	PRELIMINARY
0	04-08-24	PRELIMINARY

DRAWN BY: ASD CHECKED BY: KES

SHEET TITLE:  
**GRADING & SOIL & EROSION CONTROL PLAN**

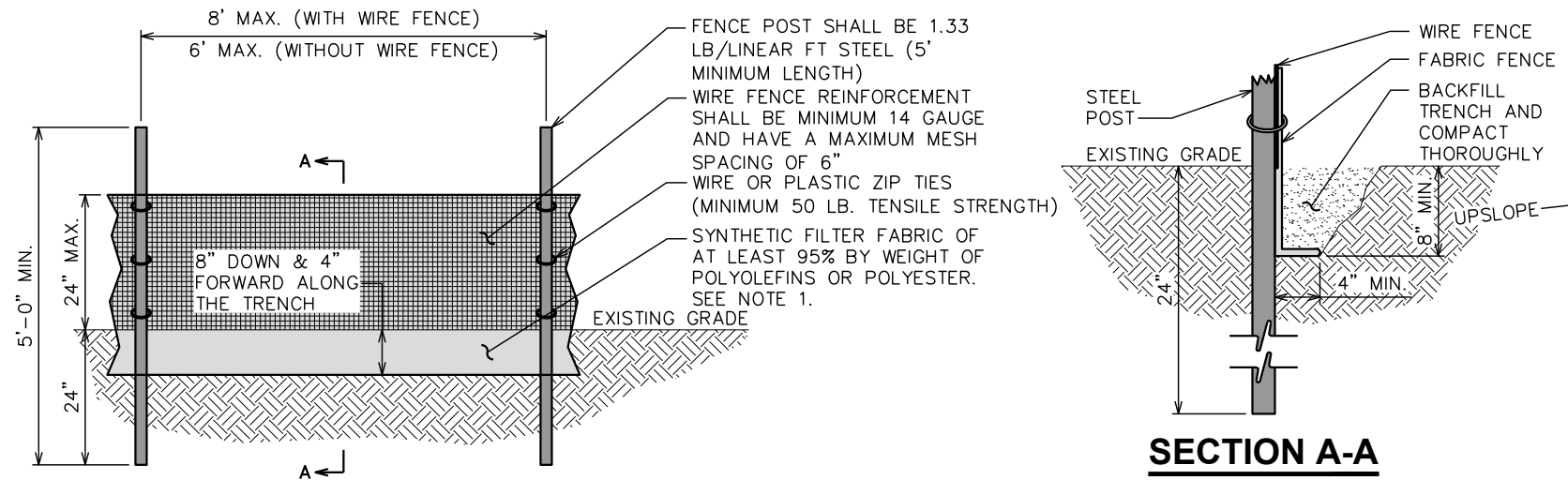
SHEET NUMBER: **C-7** REVISION: **4**  
 TEP#305146.943556

**GRADING PLAN**  
 SCALE: 3/32" = 1'-0"



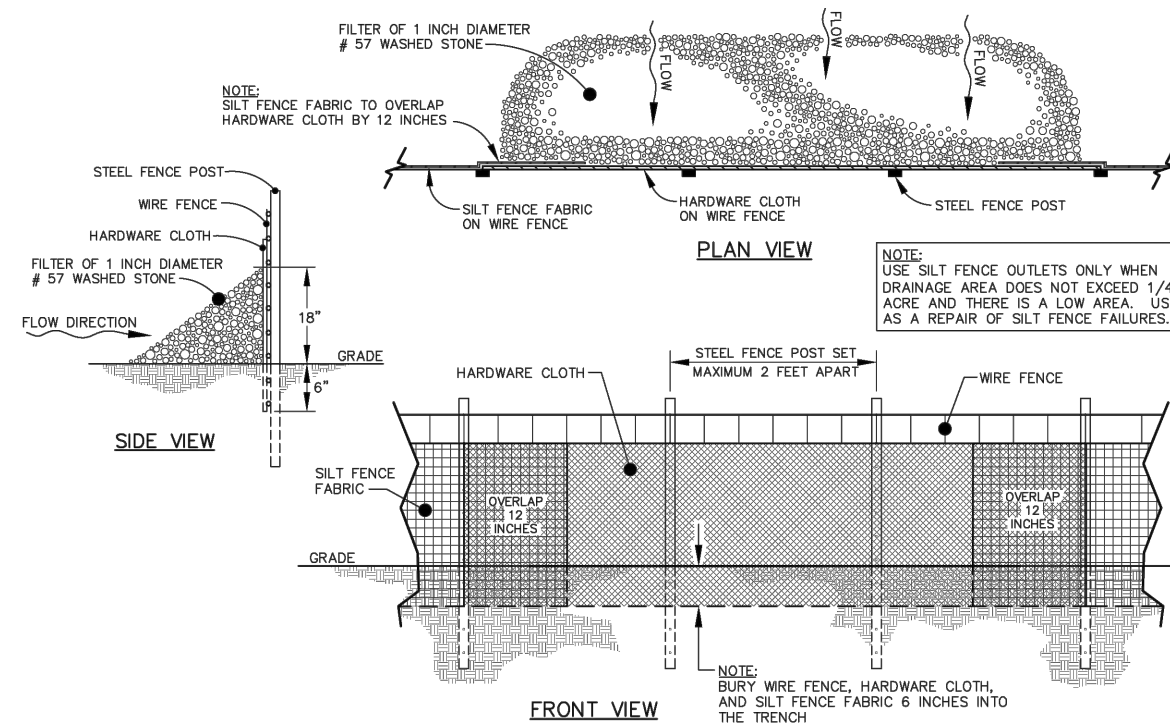
**NOTES:**

1. FILTER FABRIC SHALL CONFORM TO THE REQUIREMENTS LISTED IN ASTM D 6461.
2. ENDS OF INDIVIDUAL FILTER FABRIC SHALL BE SECURELY FASTENED AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST.
3. PLACE 12 INCHES OF FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
4. INSPECT SEDIMENT FENCE(S) AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL.
5. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE.
6. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE AND PROPERLY STABILIZE THE SITE.



**SILT FENCE DETAIL**

SCALE: N.T.S.



**STANDARD SILT FENCE OUTLET DETAIL**

SCALE: N.T.S.

PROJECT INFORMATION:

**SANTEE**

10400-CS FANITA PARKWAY  
SANTEE, CA 92071  
(SAN DIEGO COUNTY)

PLANS PREPARED FOR:

**ATLAS TOWER**

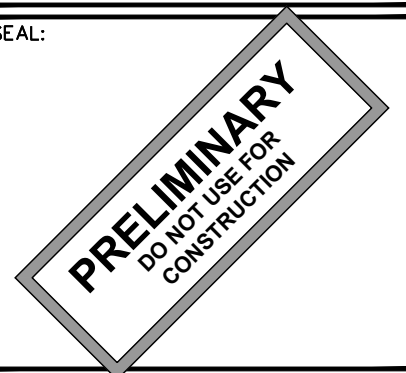
2500 30TH ST., SUITE 304  
BOULDER, CO 80301  
Office: (303) 448-8896

PLANS PREPARED BY:



4700 DAHLIA STREET  
DENVER, CO 80216  
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www.tepgroup.net

SEAL:

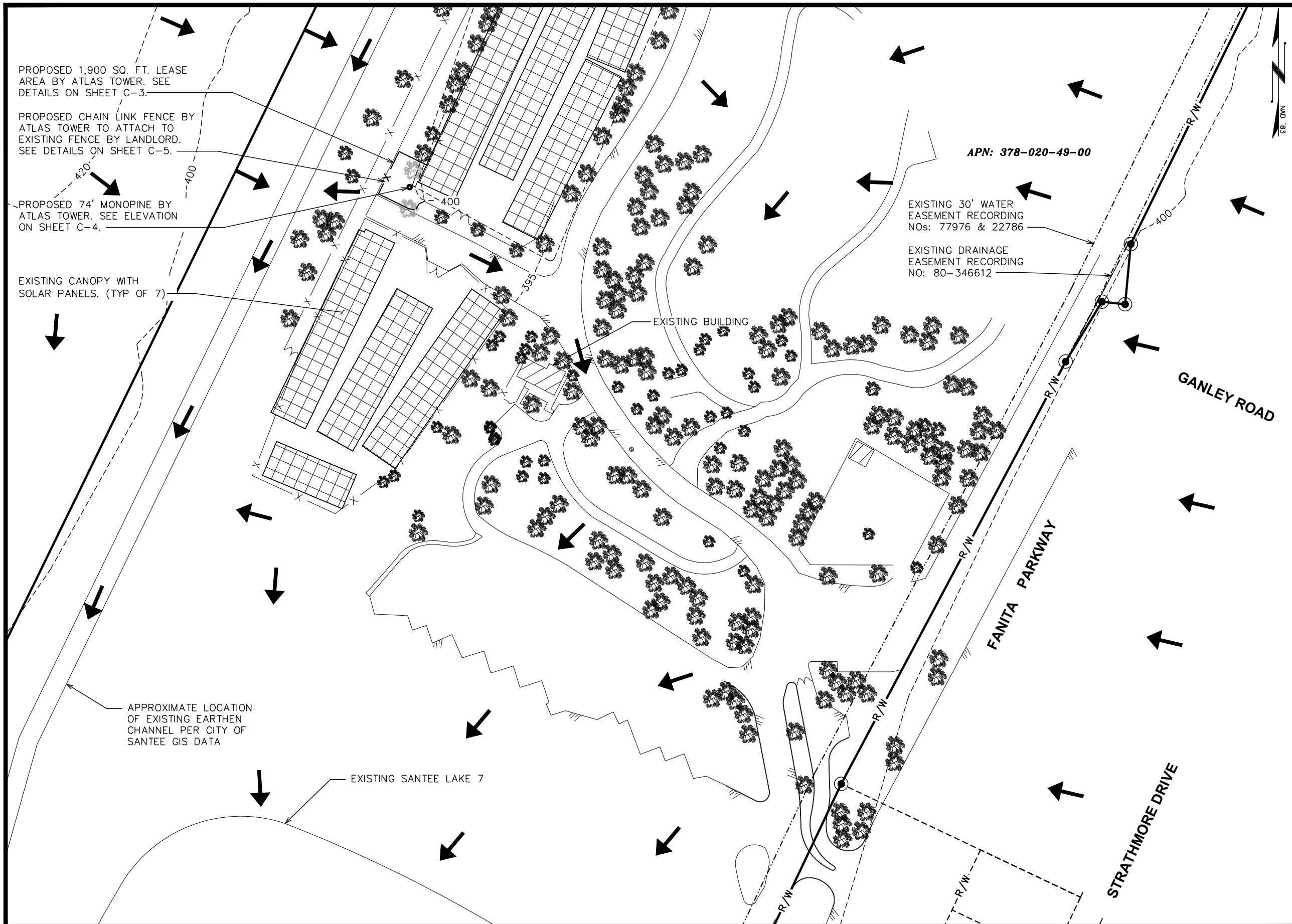


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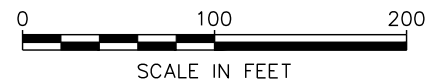
SHEET TITLE:  
**SILT FENCE  
DETAILS**

SHEET NUMBER: <b>C-8</b>	REVISION: <b>4</b>
TEP#305146.943556	



**DRAINAGE PLAN**

SCALE: 1" = 100'



PROJECT INFORMATION:  
**SANTEE**  
10400-CS FANITA PARKWAY  
SANTEE, CA 92071  
(SAN DIEGO COUNTY)

PLANS PREPARED FOR:  
**ATLAS TOWER**  
2500 30TH ST., SUITE 304  
BOULDER, CO 80301  
Office: (303) 448-8896

PLANS PREPARED BY:  
**TEP**  
4700 DAHLIA STREET  
DENVER, CO 80216  
OFFICE: (303) 566-9914  
www.tepgroup.net

SEAL:  
**PRELIMINARY**  
DO NOT USE FOR  
CONSTRUCTION

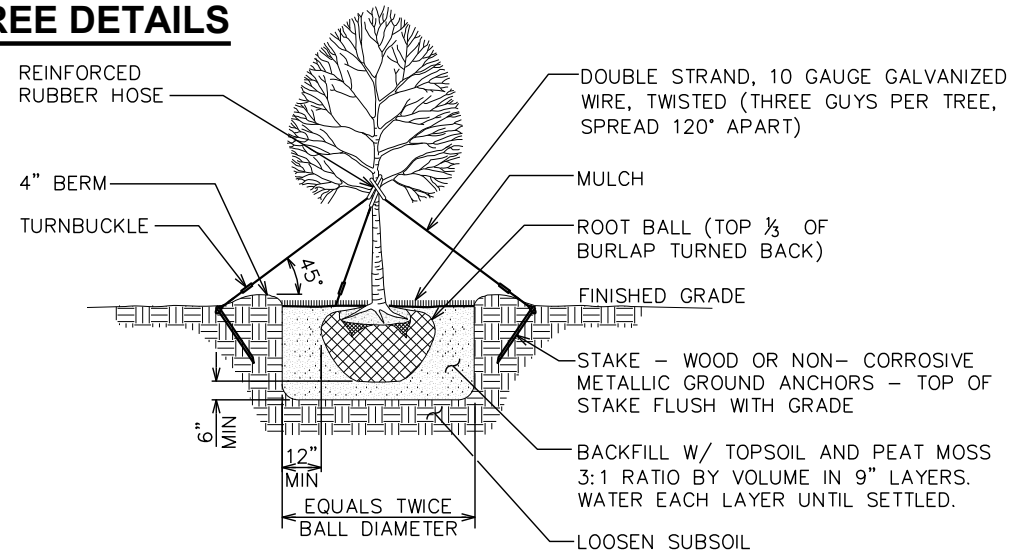
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1	05-15-24	PRELIMINARY
0	04-08-24	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ASD CHECKED BY: KES

SHEET TITLE:  
**DRAINAGE PLAN**

SHEET NUMBER: **C-9** REVISION: **4**  
TEP#305146.943556

**TREE DETAILS**

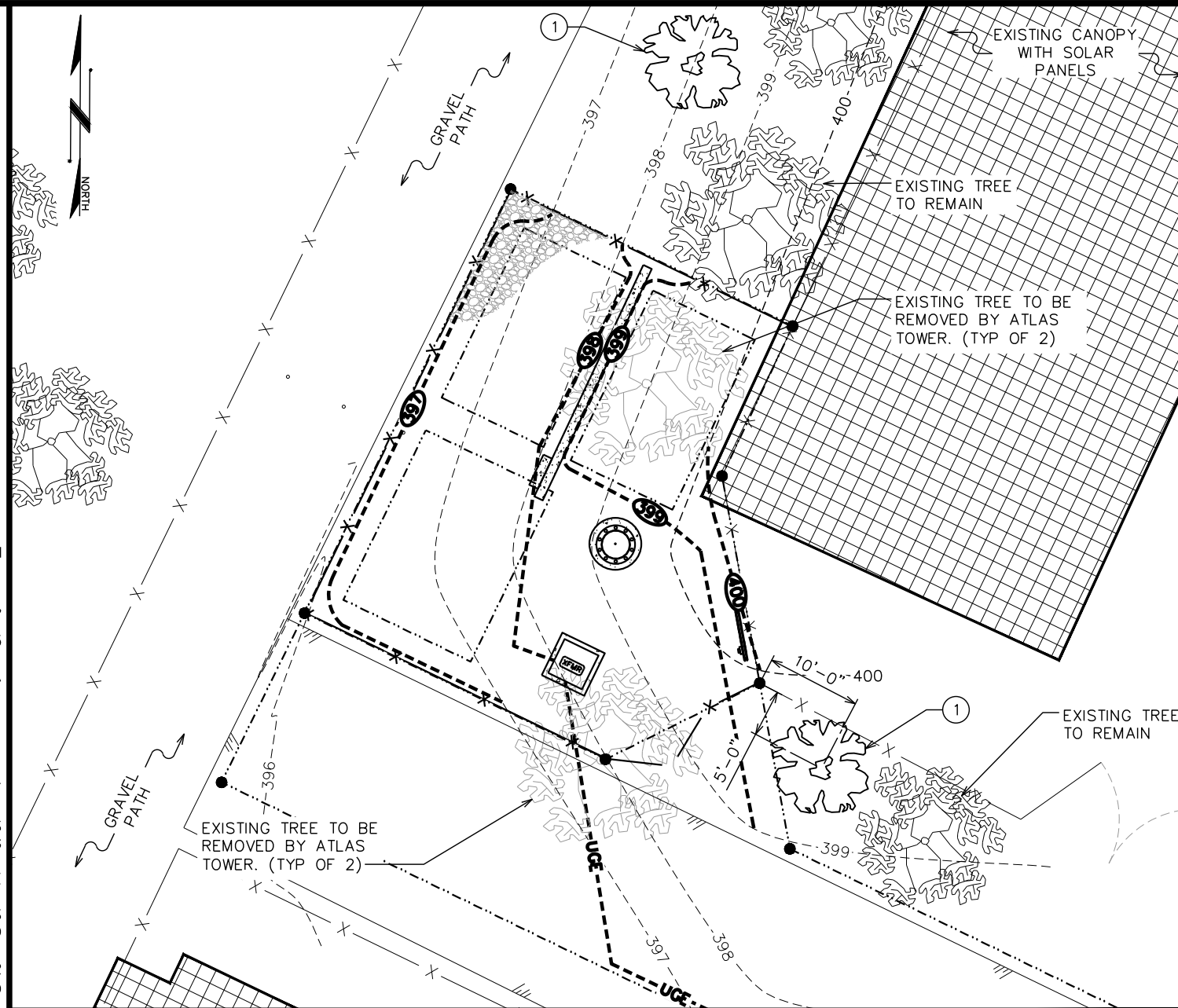


**GENERAL LANDSCAPING NOTES**

1. TOPSOIL TO BE PROVIDED BY SITE CONTRACTOR IN ROUGH GRADE TO WITHIN 1" OF FINISH GRADE.
2. EACH PLANT TO BE IN THE TOP OF ITS CLASS AFTER SHEARING AND PRUNING.
3. EACH PLANT TO BE FREE FROM DISEASE, INSECT INFESTATION, AND MECHANICAL INJURIES, AND IN ALL RESPECTS BE SUITABLE FOR FIELD PLANTING.
4. PLANTS SHALL CONFORM TO THE AMERICAN STANDARD OF NURSERY STOCK, ANSI Z60.1-1973 IN REGARD TO SIZING, GROWING, AND B&B SPECIFICATIONS.
5. CONTRACTOR SHALL PROTECT ALL EXISTING TREES AND SHRUBS WITHIN CONSTRUCTION AREA IDENTIFIED AS "TO REMAIN" FROM DAMAGE BY EQUIPMENT AND CONSTRUCTION ACTIVITIES.

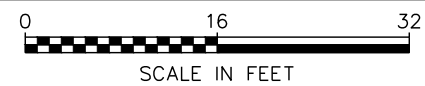
**TREE PLANTING NOTES:**

1. WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4-6" OVER THE ENTIRE AREA.
2. FOR CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
3. DURING THE DESIGN PHASE, CONFIRM THAT THE WATER DRAINS OUT OF THE SOIL; USE TOWERED PLANTING HOLE DEPTH AND DESIGN ALTERNATIVE DRAINAGE SYSTEM AS REQUIRED.
4. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS UNTIL ESTABLISHED.
5. BEFORE PLANTING, ADD 3-4" OF WELL COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL.
6. DO NOT WRAP TRUNK; MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH SIDE IN THE FIELD.
7. AVOID PURCHASING TREES WITH TWO LEADERS OR REMOVE ONE AT PLANTING. OTHERWISE, DO NOT PRUNE TREE AT PLANTING EXCEPT FOR SPECIFIC STRUCTURAL CORRECTIONS.



**LANDSCAPING PLAN**

SCALE: 1/16" = 1'-0"



PROJECT INFORMATION:

**SANTEE**

10400-CS FANITA PARKWAY  
SANTEE, CA 92071  
(SAN DIEGO COUNTY)

PLANS PREPARED FOR:

**ATLAS TOWER**

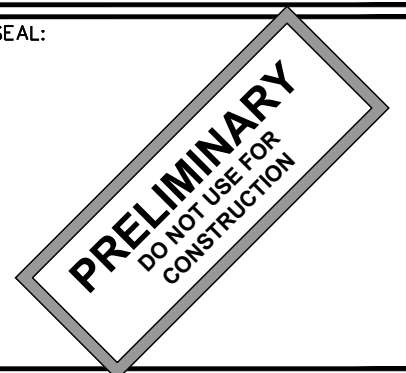
2500 30TH ST., SUITE 304  
BOULDER, CO 80301  
Office: (303) 448-8896

PLANS PREPARED BY:



4700 DAHLIA STREET  
DENVER, CO 80216  
OFFICE: (303) 566-9914  
www.tepgroup.net

SEAL:



PLANTING SCHEDULE							
ITEM	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT REQ.	SPREAD/CALIPER	SPACING	REMARKS
<b>TREES</b>							
①	2	QUERCUS BERBERIDIFOLIA	SCRUB OAK	6'-0" (MIN)	15' (MAX)	8'-0"	SHOWN AS  TREE
<b>MULCH</b>							
②	160 ± SQ FT	-	MULCH	-	-	-	APPLY 3"-4" DEEP FROM THE TRUNKLINE TO THE DRIPLINE IN 5' RINGS AROUND THE TREES. FOR GROUND COVER APPLY 1"-2" DEEP.

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REV	DATE	ISSUED FOR:

DRAWN BY: KES | CHECKED BY: ARB

SHEET TITLE:

**LANDSCAPING PLAN**

SHEET NUMBER:	REVISION:
<b>C-10</b>	<b>4</b>
TEP#:305146.943556	

**SCOPE:**

1. PROVIDE LABOR, MATERIALS, INSPECTION, AND TESTING TO PROVIDE CODE COMPLIANCE FOR ELECTRIC, TELEPHONE, AND GROUNDING/LIGHTNING SYSTEMS.

**CODES:**

1. THE INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND CODES. THESE INCLUDE BUT ARE NOT LIMITED TO THE LATEST ADOPTED EDITIONS OF:
  - A. THE NATIONAL ELECTRICAL SAFETY CODE
  - B. THE NATIONAL ELECTRIC CODE – NFPA-70
  - C. REGULATIONS OF THE SERVING UTILITY COMPANY
  - D. LOCAL AND STATE AMENDMENTS
  - E. THE INTERNATIONAL ELECTRIC CODE – IEC (WHERE APPLICABLE)
2. PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR.
3. AFTER COMPLETION AND FINAL INSPECTION OF THE WORK, THE OWNER SHALL BE FURNISHED A CERTIFICATE OF COMPLETION AND APPROVAL.

**TESTING:**

1. UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST THE EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. THE TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

**GUARANTEE:**

1. IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND WITHOUT EXPENSE TO THE OWNER.
2. THE WARRANTEE CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER.

**UTILITY CO-ORDINATION:**

1. CONTRACTOR SHALL COORDINATE WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH THE SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

**EXAMINATION OF SITE:**

1. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH THE CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS SECTION WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING THE WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

**CUTTING, PATCHING AND EXCAVATION:**

1. COORDINATION OF SLEEVES, CHASES, ETC., BETWEEN SUBCONTRACTORS WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
2. NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE ELECTRICAL WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING.
3. SEAL PENETRATIONS THROUGH RATED WALLS, FLOORS, ETC., WITH APPROVED METHOD AS LISTED BY UL.

**RACEWAYS / CONDUITS GENERAL:**

1. CONDUCTORS SHALL BE INSTALLED IN LISTED RACEWAYS. CONDUIT SHALL BE RIGID STEEL, EMT, SCH40 PVC, OR SCH80PVC AS INDICATED ON THE DRAWINGS. THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS.
2. EXTERIOR RACEWAYS AND GROUNDING SLEEVES SHALL BE SEALED AT POINTS OF ENTRANCE AND EXIT. THE RACEWAY SYSTEM SHALL BE BONDED PER NEC.

**EXTERIOR CONDUIT:**

1. EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.
2. THE CONDUIT SHALL BE RIGID STEEL AT GRADE TRANSITIONS OR WHERE EXPOSED TO DAMAGE.
3. UNDERGROUND CONDUITS SHALL BE RIGID STEEL, SCH40 PVC, OR SCH80 PVC AS INDICATED ON THE DRAWINGS.
4. BURIAL DEPTH OF CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION, BUT SHALL NOT BE LESS THAN THE FROST DEPTH AT THE SITE.
5. CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY ROUTES BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND/OR BUILDING OWNER.

**INTERIOR CONDUIT:**

1. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT OR PVC.
2. CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
3. PROVIDE SUPPORTS FOR CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. CONDUITS SHALL BE SIZED AS REQUIRED BY NEC.

**EQUIPMENT:**

1. DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE.
2. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK. CONTRACTOR WILL VERIFY THAT EXISTING CIRCUIT BREAKERS ARE RATED FOR MORE THAN AVAILABLE FAULT CURRENT AND REPLACE AS NECESSARY.
3. NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY.

**CONDUCTORS:**

1. FURNISH AND INSTALL CONDUCTORS SPECIFIED IN THE DRAWINGS. CONDUCTORS SHALL BE COPPER AND SHALL HAVE TYPE THWN (MIN) (75° C) INSULATION, RATED FOR 600 VOLTS.
2. THE USE OF ALUMINUM CONDUCTORS SHALL BE LIMITED TO THE SERVICE FEEDERS INSTALLED BY THE UTILITY.
3. CONDUCTORS SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:
  - A. MINIMUM WIRE SIZE SHALL BE #12 AWG.
  - B. CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND #12 MAY BE SOLID OR STRANDED.
  - C. CONNECTION FOR #10 AWG #12 AWG SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.
  - D. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.
3. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC STANDARDS.

**UL COMPLIANCE:**

1. ELECTRICAL MATERIALS, DEVICES, CONDUCTORS, APPLIANCES, AND EQUIPMENT SHALL BE LABELED/LISTED BY UL OR ACCEPTED BY JURISDICTION (I.E., LOCAL COUNTY OR STATE) APPROVED THIRD PARTY TESTING AGENCY.

**GROUNDING:**

1. ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED AT A SINGLE POINT.
2. PROVIDE GROUND CONDUCTOR IN RACEWAYS PER NEC.
3. PROVIDE BONDING AND GROUND TO MEET NFPA 780 – "LIGHTNING PROTECTION" AS A MINIMUM.
4. PROVIDE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, RADIO EQUIPMENT MANUFACTURERS, AND MOTOROLA R56 (AS APPLICABLE).

<b>ABBREVIATIONS AND LEGEND</b>	
<p>A – AMPERE</p> <p>AFG – ABOVE FINISHED GRADE</p> <p>ATS – AUTOMATIC TRANSFER SWITCH</p> <p>AWG – AMERICAN WIRE GAUGE</p> <p>BCW – BARE COPPER WIRE</p> <p>BFG – BELOW FINISHED GRADE</p> <p>BKR – BREAKER</p> <p>C – CONDUIT</p> <p>CKT – CIRCUIT</p> <p>DISC – DISCONNECT</p> <p>EGR – EXTERNAL GROUND RING</p> <p>EMT – ELECTRIC METALLIC TUBING</p> <p>FSC – FLEXIBLE STEEL CONDUIT</p> <p>GEN – GENERATOR</p> <p>GPS – GLOBAL POSITIONING SYSTEM</p> <p>GRD – GROUND</p> <p>IGB – ISOLATED GROUND BAR</p> <p>IGR – INTERIOR GROUND RING (HALO)</p> <p>KW – KILOWATTS</p> <p>NEC – NATIONAL ELECTRIC CODE</p> <p>PCS – PERSONAL COMMUNICATION SYSTEM</p> <p>PH – PHASE</p> <p>PNL – PANEL</p>	<p>PNLBD – PANELBOARD</p> <p>PVC – RIGID NON-METALLIC CONDUIT</p> <p>RGS – RIGID GALVANIZED STEEL CONDUIT</p> <p>SW – SWITCH</p> <p>TGB – TOWER GROUND BAR</p> <p>UL – UNDERWRITERS LABORATORIES</p> <p>V – VOLTAGE</p> <p>W – WATTS</p> <p>XFMR – TRANSFORMER</p> <p>XMTR – TRANSMITTER</p>
<p>—E— UNDERGROUND ELECTRICAL CONDUIT</p> <p>—T— UNDERGROUND TELEPHONE CONDUIT</p> <p> KILOWATT-HOUR METER</p> <p>— — — UNDERGROUND BONDING AND GROUNDING CONDUCTOR.</p> <p>⊘ GROUND ROD</p> <p>● CADWELD</p> <p>⊗ GROUND ROD WITH INSPECTION WELL</p>	

PROJECT INFORMATION:

**SANTEE**

10400-CS FANITA PARKWAY  
 SANTEE, CA 92071  
 (SAN DIEGO COUNTY)

PLANS PREPARED FOR:



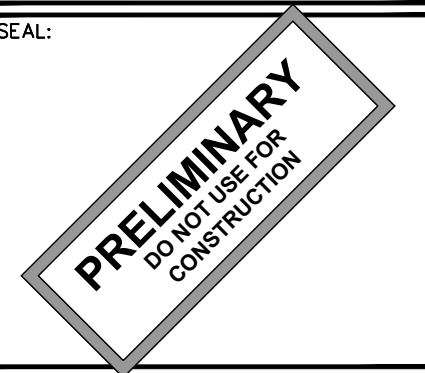
2500 30TH ST., SUITE 304  
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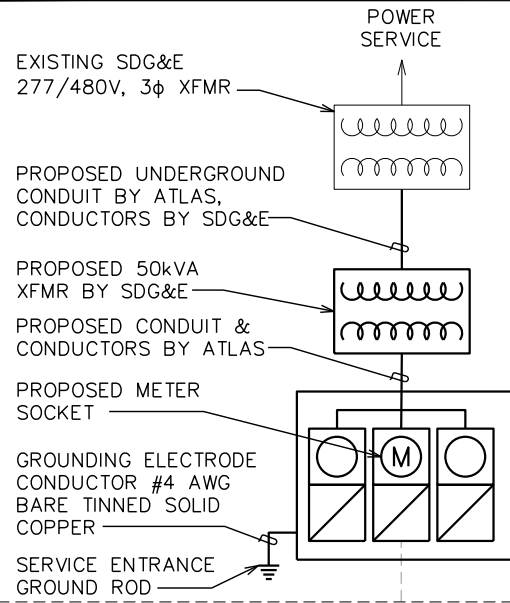


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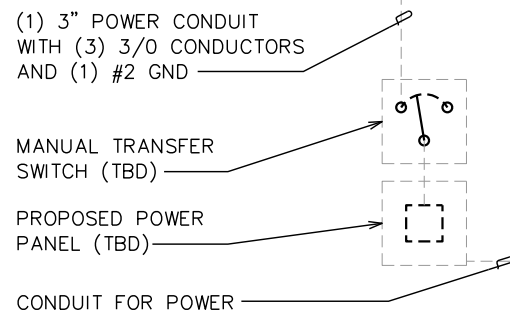
SHEET TITLE:  
**ELECTRICAL NOTES**

SHEET NUMBER: <b>E-1</b>	REVISION: <b>4</b>
TEP#:305146.943556	



**ONE LINE DIAGRAM NOTES:**

1. ELECTRICAL SERVICE SHALL BE 600A, 120/240V, 1φ, 3W.
2. 3 GANG METER BASE CABINET FOR 200A EA. 120/240V, 1φ SERVICE WITH SERVICE ENTRANCE RATED, CIRCUIT BREAKER TYPE DISCONNECT SWITCH. UTILITY COMPANY TO PROVIDE METER.
3. FUTURE EQUIPMENT SHOWN FOR REFERENCE ONLY.
4. GEC IS SIZED FOR A SINGLE SERVICE ONLY AND IF MULTIPLE SERVICES SHARE A COMMON N-G BOND, THE CONTRACTOR WILL INSTALL ONE 3/0 CU MJB AND GEC INSTEAD.



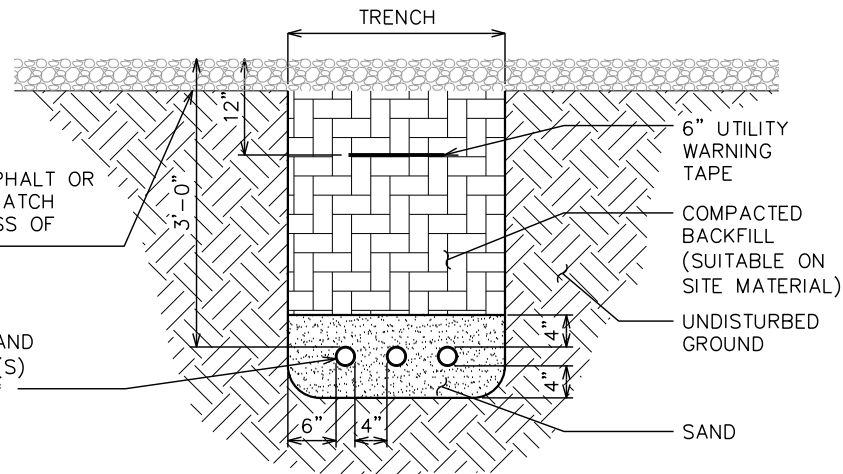
**ONE-LINE DETAIL**

SCALE: N.T.S.

**NOTES:**

1. ACTUAL SEPARATION OF CONDUITS TO BE DETERMINED BY SITE SPECIFIC REQUIREMENTS.
2. PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
3. PROVIDE RGS CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E. SERVICE POLES, EQUIPMENT, ETC.)
4. PROVIDE RGS CONDUIT FOR INSTALLATIONS BELOW PARKING LOTS AND ROADWAYS.

\* SEPARATION DIMENSIONS TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

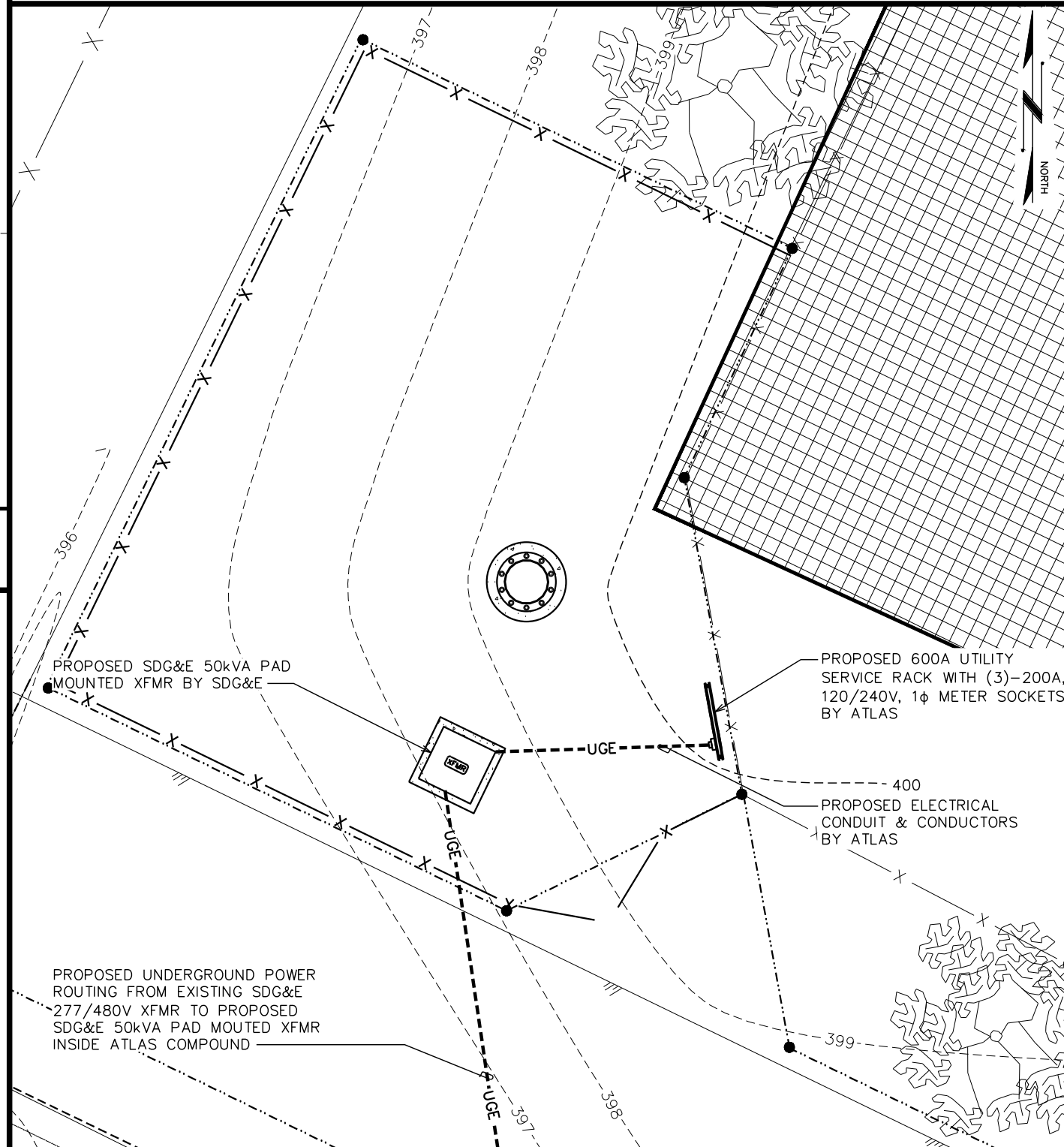


**UNDERGROUND CONDUIT(S) TRENCH DETAIL**

SCALE: N.T.S.

**NOTES:**

1. ALL TELCO CONDUITS ARE TO BE STUBBED IN D-MARC LOCATION.
2. ALL POWER CONDUITS ARE TO BE TERMINATED AT THE METER CENTER.
3. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO TRENCHING. ANY DAMAGE CAUSED TO THE EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
4. ALL CONDUITS SHALL BE INSTALLED PRIOR TO FINISH GRADING, GEOFABRIC, AND STONE INSTALLATION.
5. CONTRACTOR SHALL INSTALL SWEEPS AT ALL CONDUIT DIRECTION CHANGES.



**POWER PLAN**

SCALE: 1" = 10'



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**PRELIMINARY**  
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SHEET TITLE:

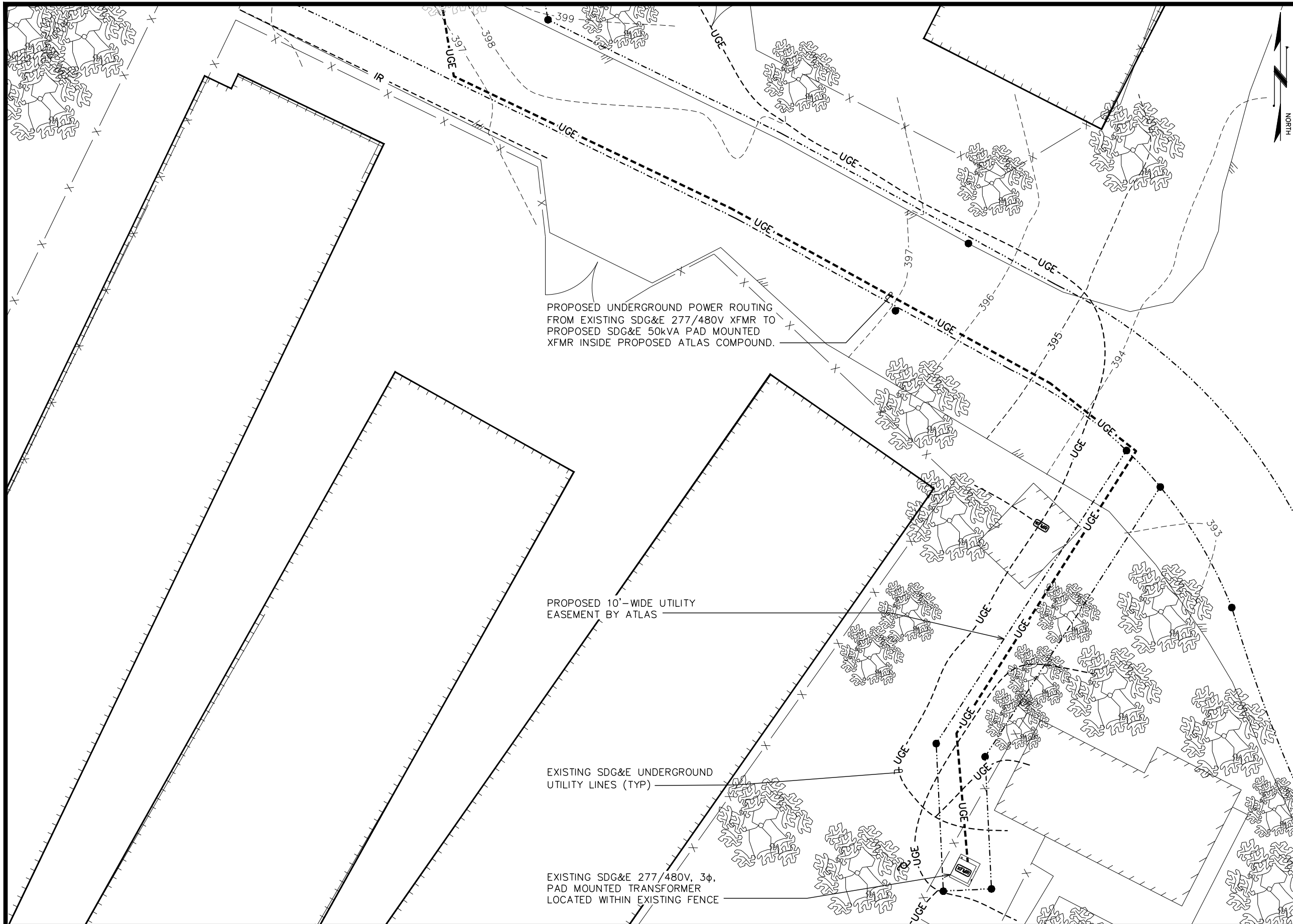
**POWER PLAN AND ONE-LINE DIAGRAM**

SHEET NUMBER: **E-2**

REVISION: **4**

TEP#305146.943556





PROPOSED UNDERGROUND POWER ROUTING FROM EXISTING SDG&E 277/480V XFMR TO PROPOSED SDG&E 50kVA PAD MOUNTED XFMR INSIDE PROPOSED ATLAS COMPOUND.

PROPOSED 10'-WIDE UTILITY EASEMENT BY ATLAS

EXISTING SDG&E UNDERGROUND UTILITY LINES (TYP)

EXISTING SDG&E 277/480V, 3φ, PAD MOUNTED TRANSFORMER LOCATED WITHIN EXISTING FENCE

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SHEET TITLE:  
**EXTENDED POWER PLAN**

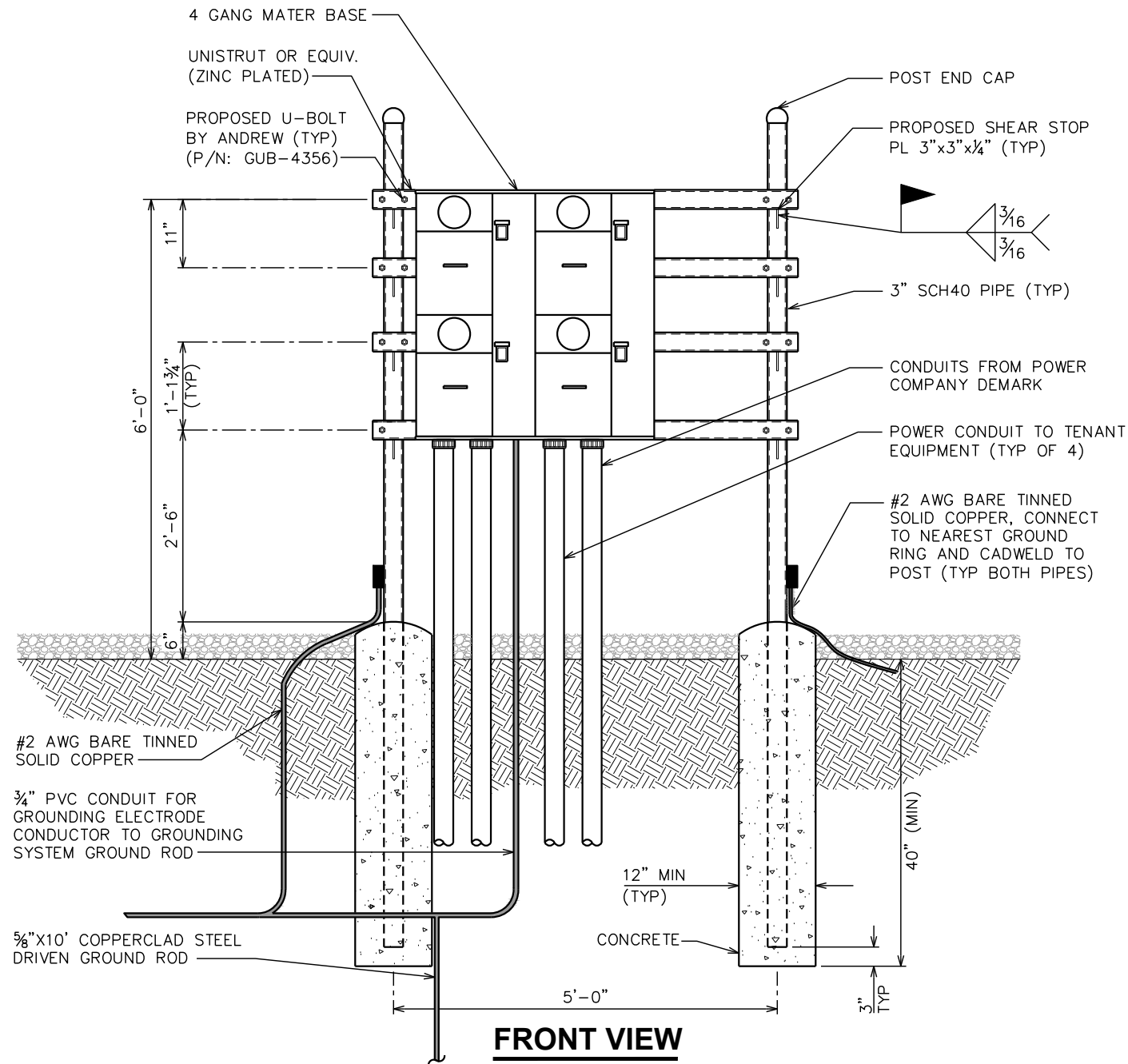
SHEET NUMBER: **E-3** REVISION: **4**  
 TEP#:305146.943556

**EXTENDED POWER PLAN**  
 SCALE: N.T.S.



**NOTES:**

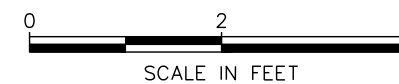
- ① REFER TO THE SITE LAYOUT PLAN FOR THE EXACT LOCATION OF THE H-FRAME.
- ② CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY FOR METER.
- ③ UTILITY COMPANY TO PROVIDE AND INSTALL METER SOCKET.
- ④ CONTRACTOR TO ENSURE METER RACK WORKING SPACES REQUIRED BY THE NEC (ART. 110.26), STATE, OR LOCAL CODES ARE MAINTAINED BOTH ON THE FRONT SIDE AND THE BACK SIDE OF THE H-FRAME PRIOR TO INSTALLATION.
- ⑤ SHOW LOCATION (INCLUDING DIMENSIONS) OF ALL CAPPED UNDERGROUND CONDUIT ON FINAL AS-BUILT DRAWINGS SUBMITTED TO OWNER.
- ⑥ COORDINATE EXACT LOCATION OF UNDERGROUND FEEDERS AND CIRCUITRY WITH THE OWNER.
- ⑦ CONTRACTOR SHALL COORDINATE EFFORTS WITH (LOCAL, ELECTRICAL) AUTHORITY HAVING JURISDICTION (AHJ) AND OTHER TRADES TO DETERMINE "FROST" LINE, AND TYPE(S) OF RACEWAYS REQUIRED FOR INSTALLATION.
- ⑧ BOND ALL ELECTRICAL EQUIPMENT TO RACK.
- ⑨ DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ALTERED IN THE FIELD AS APPROVED BY OWNER TO BETTER SUIT ACTUAL CONDITIONS OR EQUIPMENT RECEIVED.



**FRONT VIEW**

**SERVICE RACK DETAILS**

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



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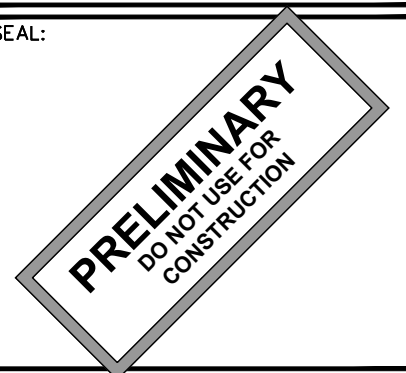
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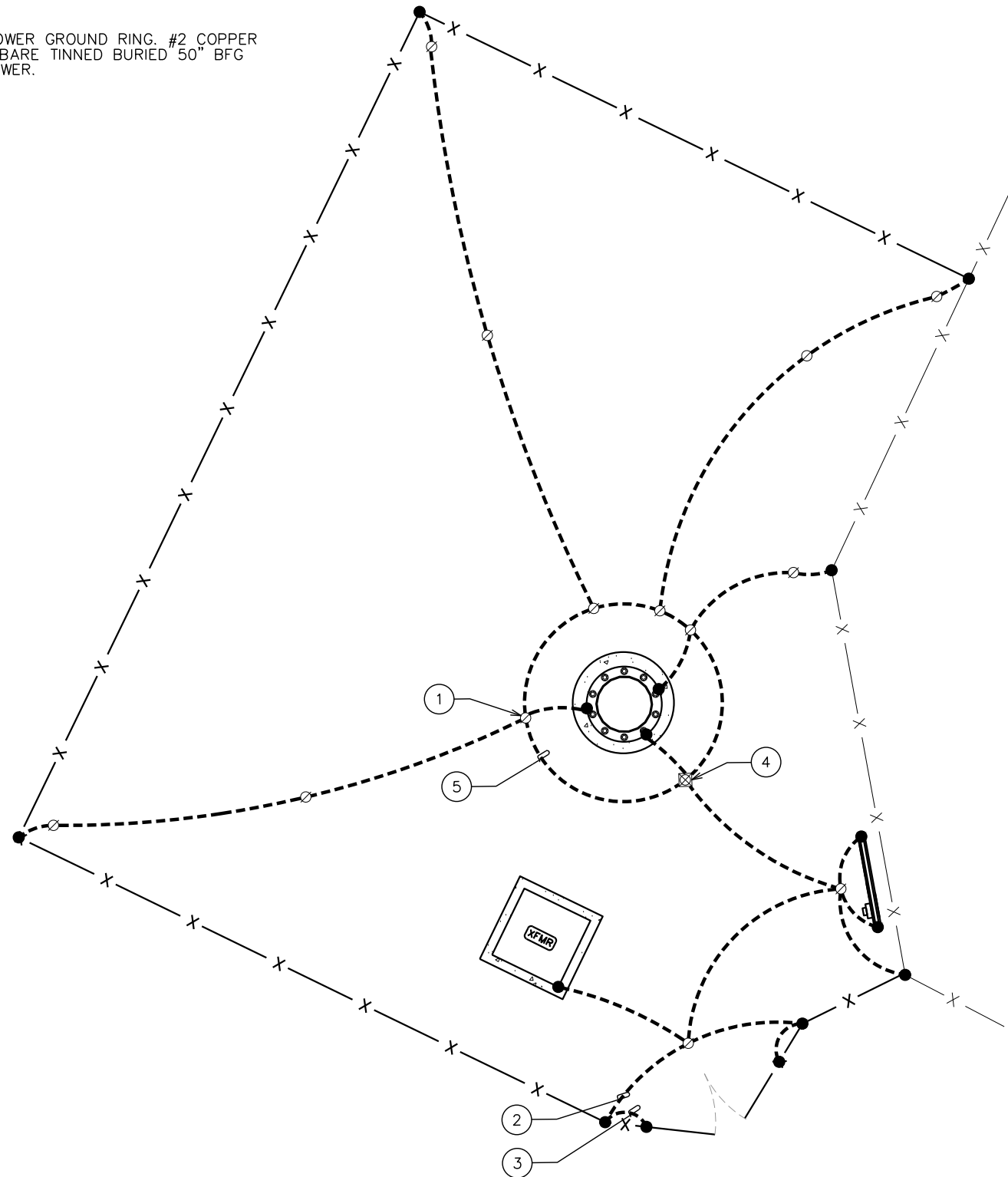
**SERVICE RACK DETAILS**

SHEET NUMBER: **E-4** | REVISION: **4**

TEP#305146.943556

**DRAWING NOTES:**

- ① 5/8"x10' COPPER GROUND ROD (TYP).
- ② GATE POST BONDING. SEE DETAIL ON THIS SHEET.
- ③ FENCE GATE GROUNDING. SEE DETAIL ON THIS SHEET.
- ④ PROPOSED INSPECTION WELL. SEE DETAIL ON SHEET E-6.
- ⑤ PROPOSED TOWER GROUND RING. #2 COPPER CONDUCTOR-BARE TINNED BURIED 50" BFG BY ATLAS TOWER.

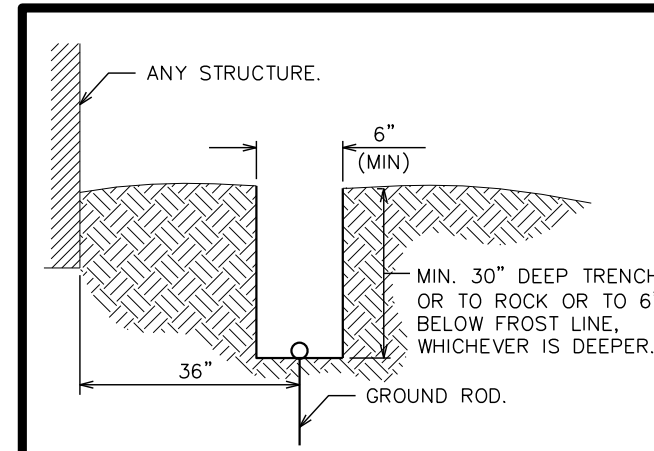


**TYPICAL GROUNDING PLAN**

SCALE: N.T.S.

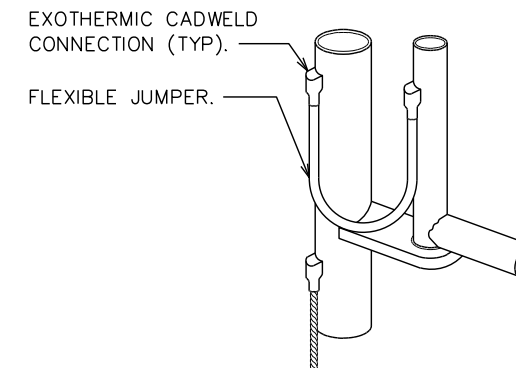
**GROUNDING NOTES**

- 1. GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 SOLID CONDUCTOR. THE TOP OF THE GROUND RODS AND THE CONDUCTOR SHALL BE 30" (MIN) BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 10'-0" CENTERS. (6'-0" MINIMUM; 16'-0" MAXIMUM)
- 2. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250.30.
- 3. ROUND SHELTER TO GROUND RING PER NSTD46 CELL SITE GROUNDING AND LIGHTING PROTECTION, ISSUED 2/1/11.



**TRENCH DETAIL**

SCALE: N.T.S.



**GROUNDING AT GATE POST**

SCALE: N.T.S.

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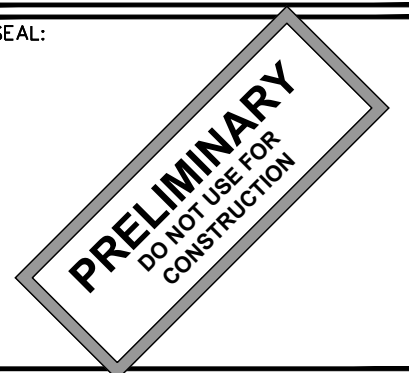
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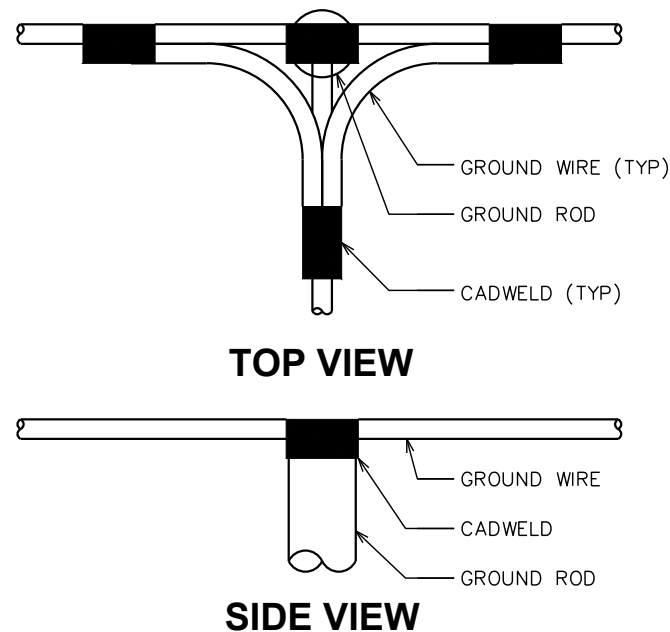
SHEET TITLE:  
**GROUNDING PLAN AND DETAILS**

SHEET NUMBER:	REVISION:
<b>E-5</b>	<b>4</b>

TEP#305146.943556

**NOTE:**

MINIMUM SPACING OF 12"  
BETWEEN ALL CADWELDS

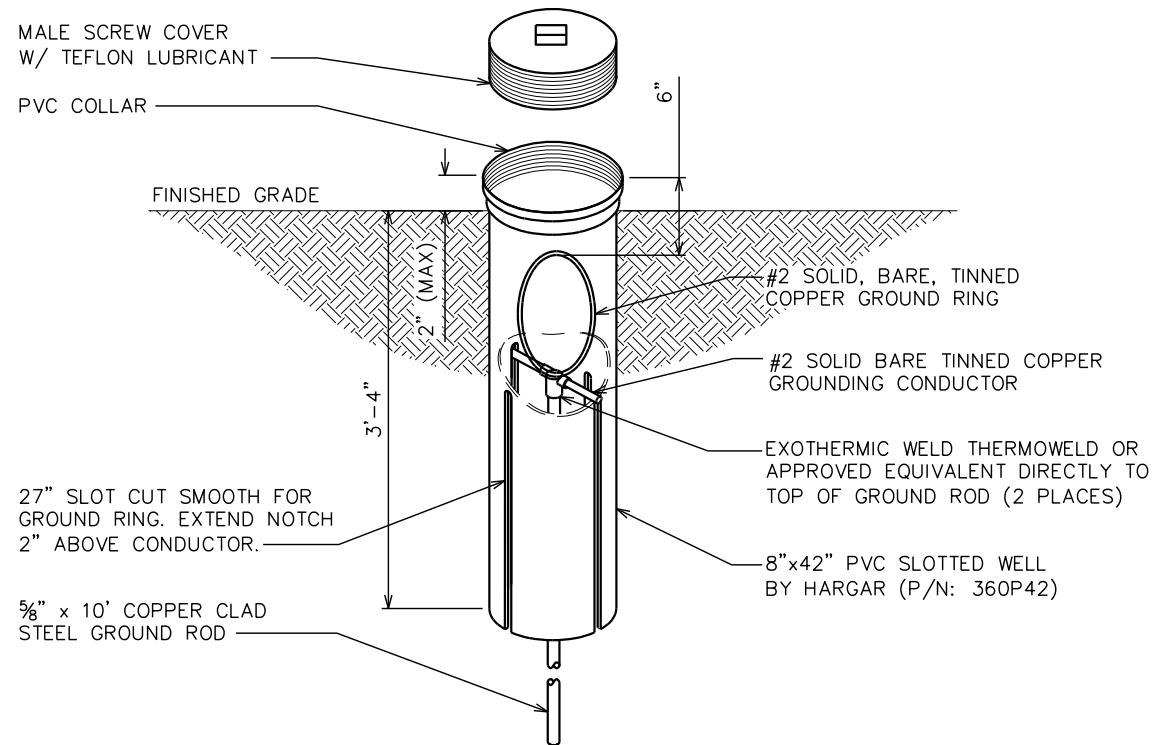


**CADWELD GROUNDING DETAIL**

SCALE: N.T.S.

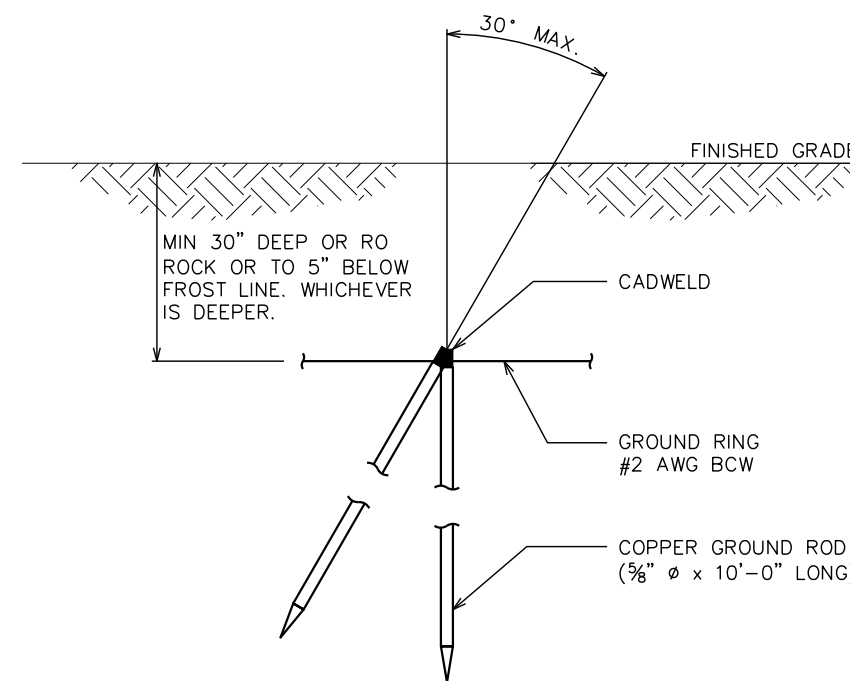
**NOT USED**

SCALE: N.T.S.



**GROUND ROD WITH INSPECTION WELL**

SCALE: N.T.S.



**COPPER-CLAD STEEL GROUND ROD**

SCALE: N.T.S.

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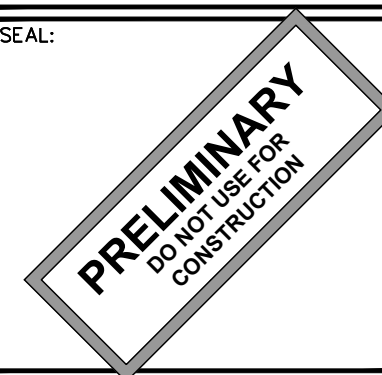
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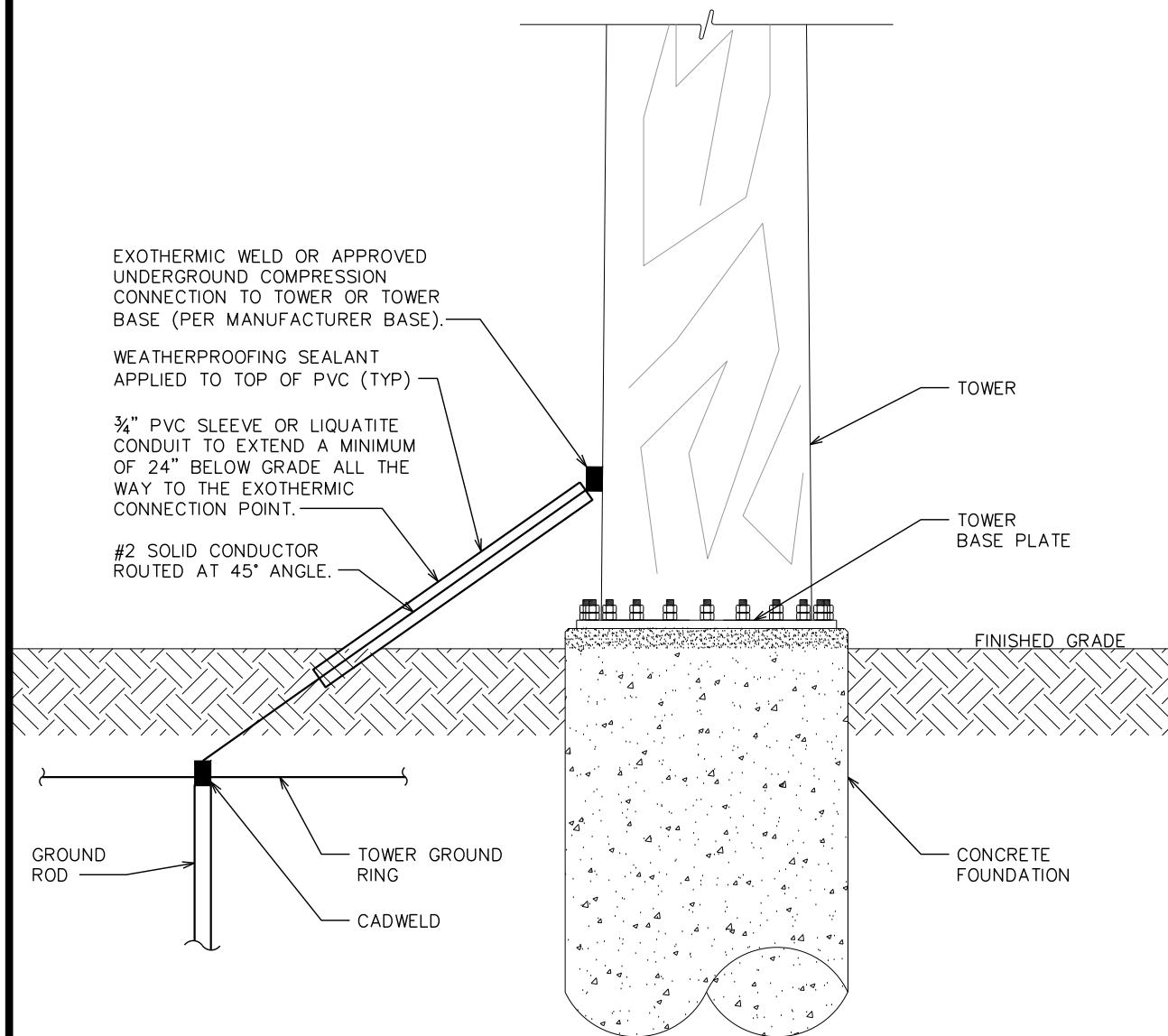


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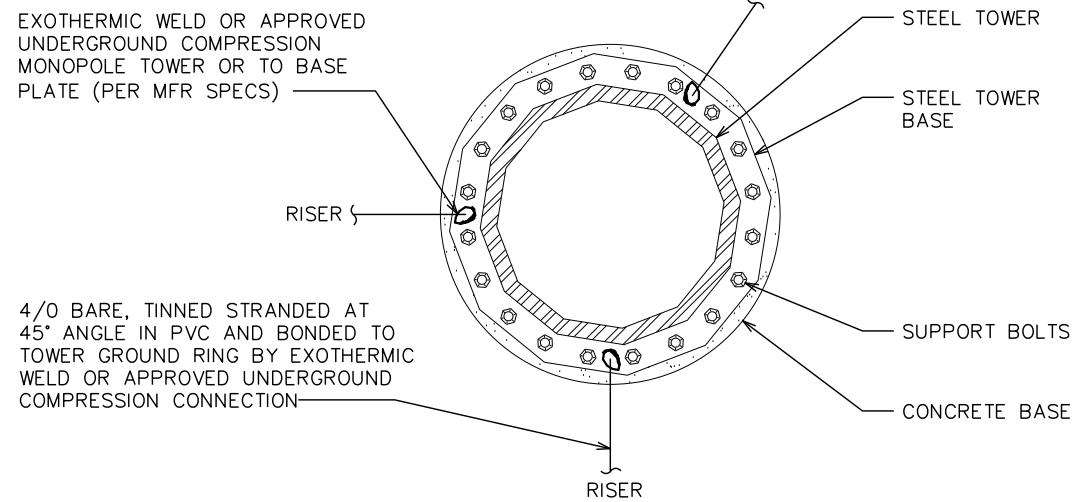
SHEET TITLE:  
**GROUNDING  
DETAILS**

SHEET NUMBER: <b>E-6</b>	REVISION: <b>4</b>
TEP#:305146.943556	



**TOWER BASE GROUNDING DETAIL**

SCALE: N.T.S.



**TOWER GROUNDING**

SCALE: N.T.S.

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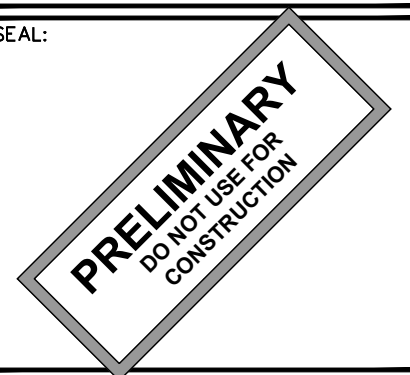
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SHEET TITLE:  
**TOWER FOUNDATION  
GROUNDING DETAILS**

SHEET NUMBER: <b>E-7</b>	REVISION: <b>4</b>
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