



SITE ID: ATTASG36M3

**ADJACENT TO: 28716 CIRCLET DR
RANCHO PALOS VERDES, CA 90275**



38 TECHNOLOGY DR., STE. 250,
IRVINE, CA 92618



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

DRAWN BY: BM

CHECKED BY: MM

PROJECT DESCRIPTION

CROWN CASTLE PROPOSES TO INSTALL A NEW WIRELESS INSTALLATION LOCATED IN THE PUBLIC RIGHT OF WAY.

THE SCOPE WILL CONSIST OF THE FOLLOWING:

- * REMOVE (1) (E) 25'-6" EXISTING CONCRETE POLE #1867140E (BY SCE)
- * INSTALL (1) (N) 37'-0" STEEL FAUX CONCRETE REPLACEMENT POLE (BY SCE)
- * INSTALL (2) (N) 2'-0" KATHREIN ANTENNAS W/ MOUNTING BRACKET ON POLE
- * INSTALL (1) (N) 2'-0" X 3'-0" HANDHOLE W/ WTR FUSE BOX INSIDE (SCE POWER)
- * INSTALL (1) (N) ELECTRICAL DISCONNECT SWITCH INSIDE (N) HANDHOLE
- * INSTALL (1) (N) 4'-0" X 6'-0" U/G EQUIPMENT VAULT W/ FLUSH MOUNT VENTS
- * INSTALL (2) (N) ANDREW ION RADIO UNITS INSIDE (N) EQUIPMENT VAULT
- * INSTALL (1) (N) FIBER HAND HOLE

* (N) EQUIPMENT TO BE PAINTED AND TEXTURED TO MATCH REPLACEMENT POLE.

AREA MAPS

VICINITY MAP



LOCATION MAP



CONSTRUCTION DRAWING

IF USING 11"x17" PLOT, DRAWING WILL BE HALF SCALE

DRAWING INDEX

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PROJECT SITE INFORMATION

NEAREST CROSS STREETS: CIRCLET DR
SHIRE OAKS DR
NEAREST ADDRESS: 28716 CIRCLET DR
NEAREST APN: 7585-018-013
LAT/LONG TYPE: NAD-83
LATITUDE: 33.77231
LONGITUDE: -118.38865
ZONING JURISDICTION: RANCHO PALOS VERDES
APPLICANT: CROWN CASTLE
ADDRESS: 200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618

PROJECT TEAM

CLIENT REPRESENTATIVE:
CROWN CASTLE
200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618

PROJECT MANAGER:
CROWN CASTLE
200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618
CONTACT: JON COWELL
PH: (925) 200-6857

ENGINEER:
M SQUARED WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE, CA 92673
CONTACT: MICHAEL MONTELLA
PHONE: (949) 391-8824

CONSTRUCTION MANAGER:
CROWN CASTLE
200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618
CONTACT: MARC CRAM
PH: (909) 630-4738

DIG ALERT



Dig Alert

Know what's below.
Call before you dig.

CALIFORNIA SOUTH
Call Two Working Days Before You Dig!
811 / 800-227-2600

APPLICABLE CODES

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.

- 2016 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**ATTASG36M3
CROWN CASTLE SITE ID:
CROWN CASTLE NG WEST
28716 CIRCLET DR
RANCHO PALOS VERDES, CA 90275
REPLACEMENT STEEL POLE**

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL NOTES

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

DO NOT SCALE DRAWINGS.

GENERAL NOTES

EROSION AND SEDIMENT CONTROL NOTES:

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- ALL REQUIREMENTS OF THE CITY OF RANCHO PALOS VERDES "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED PUBLIC IMPROVEMENTS CONSISTENT WITH THE EROSION CONTROL PLAN AND/OR WATER POLLUTION CONTROL PLAN (WPCP), IF APPLICABLE.
- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED IMPROVEMENT PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

NOTES:

- CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS.
- CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
- SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEEPED AND CLEANED AS NEEDED.
- CONTRACTOR TO REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
- CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL RESTORE THE ROADWAY BACK TO ITS ORIGINAL CONDITION SATISFACTORY TO THE CITY ENGINEER INCLUDING, BUT NOT LIMITED TO PAVING, STRIPING, BIKE LANES, PAVEMENT LEGENDS, SIGNS, AND TRAFFIC LOOP DETECTORS.
- SIDEWALK SHALL BE RESTORED/REPLACED PER CITY OF LOS ANGELES STANDARD DRAWINGS.
- PEDESTRIAN RAMP WILL NOT BE DISTURBED.

ROW GROUND CONSTRUCTION NOTES:

- GROUND CONSTRUCTION TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, GO95 AND GO128 STANDARDS AND REGULATIONS.
- CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600 OR 811.
- ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
- ALL EQUIPMENT TO BE BONDED.
- METERING CABINET REQUIRES 36" CLEARANCE AT DOOR OPENING.
- CAULK CABINET BASE AT PAD.

NORMAL LOCATION OF UNDERGROUND UTILITIES NOTES:

- LOCATION AND DEPTH OF EXISTING AND PROPOSED UTILITIES MUST BE PROVIDED BY THE SUBDIVIDER AND SHOWN ON ANY PLANS SUBMITTED TO THE DEPT. OF PUBLIC WORKS FOR APPROVAL.
- CHANGES MAY BE PERMITTED BY THE DEPT. OF PUBLIC WORKS IN CASES OF CONFLICTING FACILITIES.
- CONFLICTS BETWEEN UTILITY COMPANIES FACILITIES, EXISTING AND PROPOSED, MUST BE MUTUALLY RESOLVED BY THE UTILITY COMPANIES.
- FOR COMMERCIAL SIDEWALKS, THE FIRE HYDRANT SHALL BE PLACED WITHIN THE SIDEWALK 1'-6" BEHIND FACE OF CURB.
- MAXIMUM 2" DIAMETER GAS MAINS MAY BE PLACED IN JOINT UTILITIES TRENCH SUBJECT TO APPROVAL OF CITY ENGINEER (IN TRACTS).

CALIFORNIA STATE CODE COMPLIANCE:

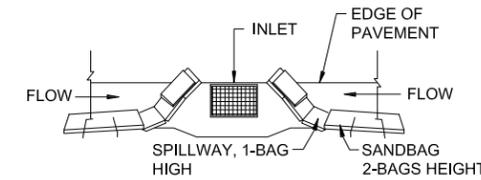
ALL WORK AND MATERIALS SHALL BE PREFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25) 2016
- 2016 CALIFORNIA BUILDING CODES WHICH ADOPTS THE 2016 UBC, 2016 UMC, 2016 UPC AND THE 2016 NEC.
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2016 CALIFORNIA MECHANICAL CODE
- ANSI/IEA-222-F LIFE SAFETY CODE NFPA-101
- 2016 CALIFORNIA PLUMBING CODE
- 2016 CALIFORNIA ELECTRICAL CODE
- 2016 LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

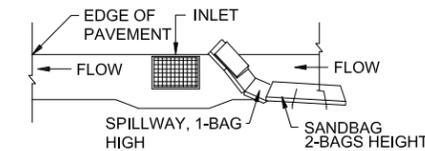
ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS DO NOT APPLY IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE.

FCC NOTE:
THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.

STORMDRAIN INLET PROTECTION



TYPICAL PROTECTION FOR INLET WITH OPPOSING FLOW DIRECTIONS



TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION

NOTES:

- INTENDED FOR SHORT - TERM USE.
- USE TO INHIBIT NON - STORM WATER FLOW.
- ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
- BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
- NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.



38 TECHNOLOGY DR., STE. 250,
IRVINE, CA 92618



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

DRAWN BY: BM

CHECKED BY: MM

REV	DATE	DESCRIPTION
A	04/18/2018	90% CD'S FOR REVIEW

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ATTASG36M3
CROWN CASTLE SITE ID:
CROWN CASTLE NG WEST
28716 CIRCLET DR
RANCHO PALOS VERDES, CA 90275
REPLACEMENT STEEL POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1



ASG36m3

ADJACENT TO 28716 CIRCLET DR RANCHO PALOS VERDES CA 90275



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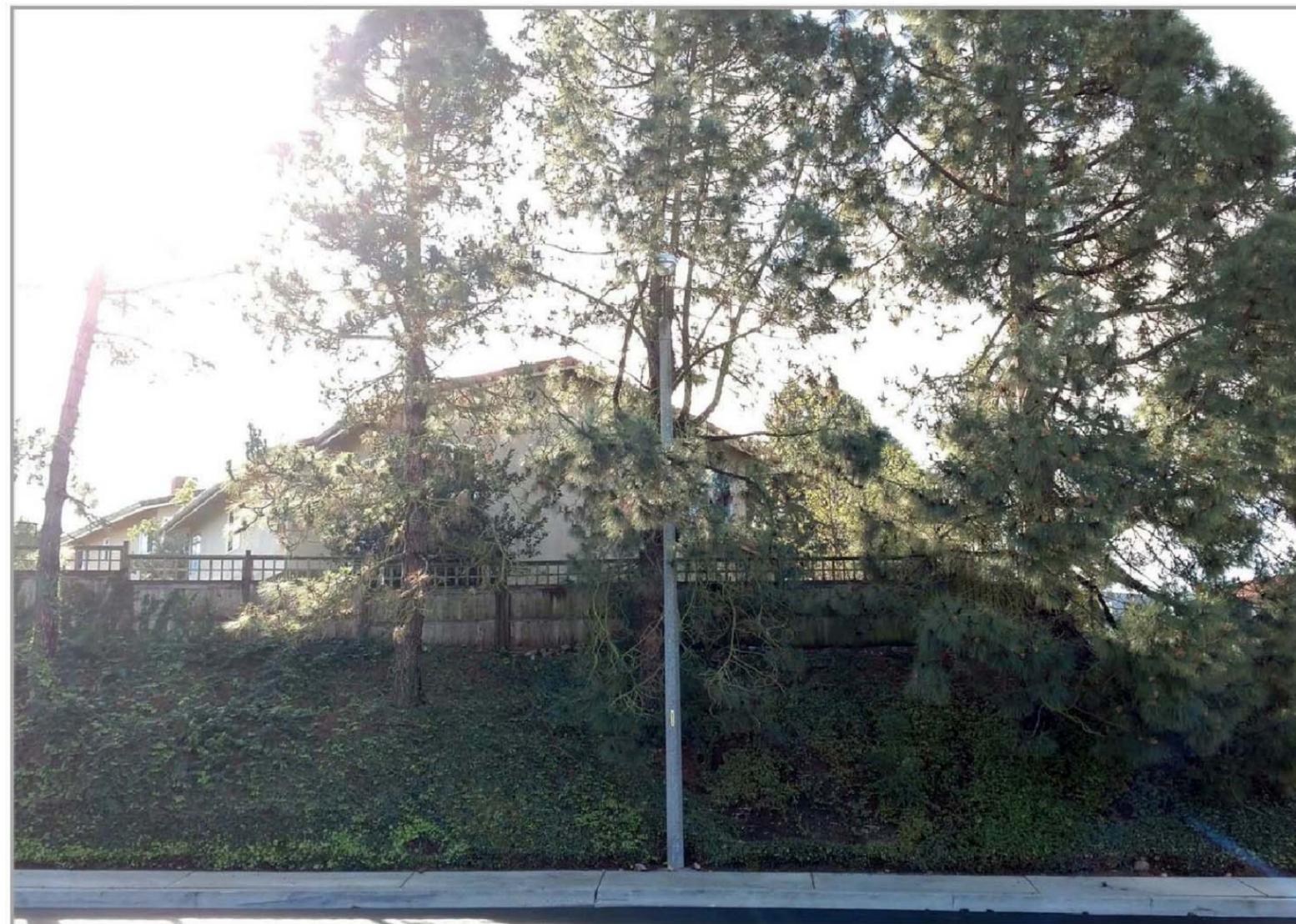
ATTASG36M3
 CROWN CASTLE SITE ID:
 CROWN CASTLE NG WEST
 28716 CIRCLET DR
 RANCHO PALOS VERDES, CA 90275
 REPLACEMENT STEEL POLE

SHEET TITLE
 PHOTO
 SIMULATION

SHEET NUMBER
PS-1



LOCATION ©2016 Google Maps



EXISTING **LOOKING SOUTHEAST FROM CIRCLET DR**



ASG36m3

ADJACENT TO 28716 CIRCLET DR RANCHO PALOS VERDES CA 90275



DRAWN BY: BM

CHECKED BY: MM

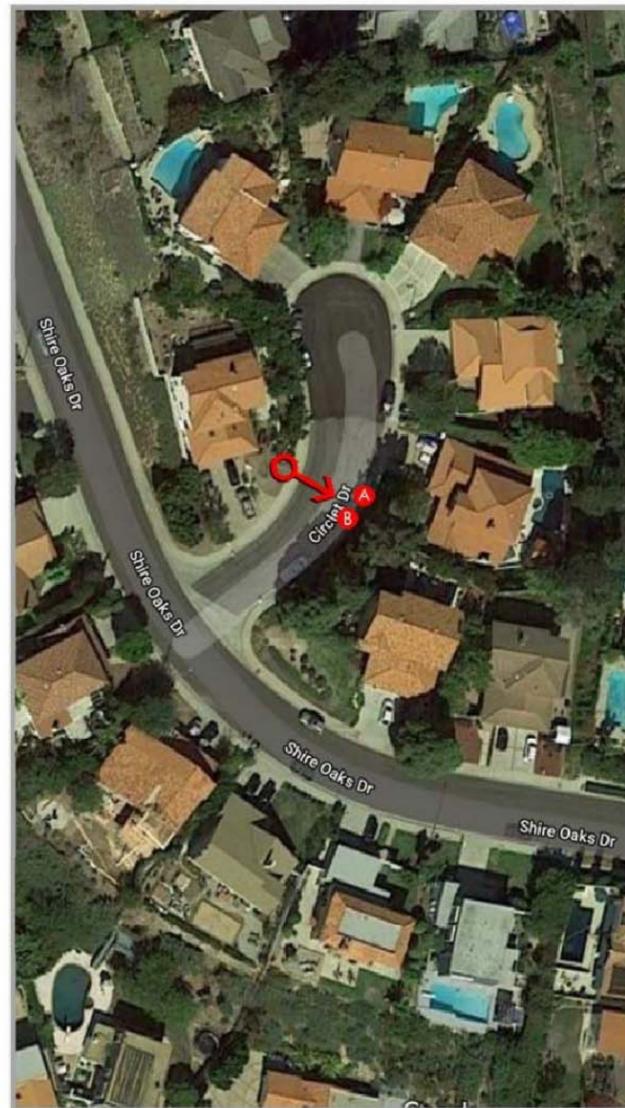
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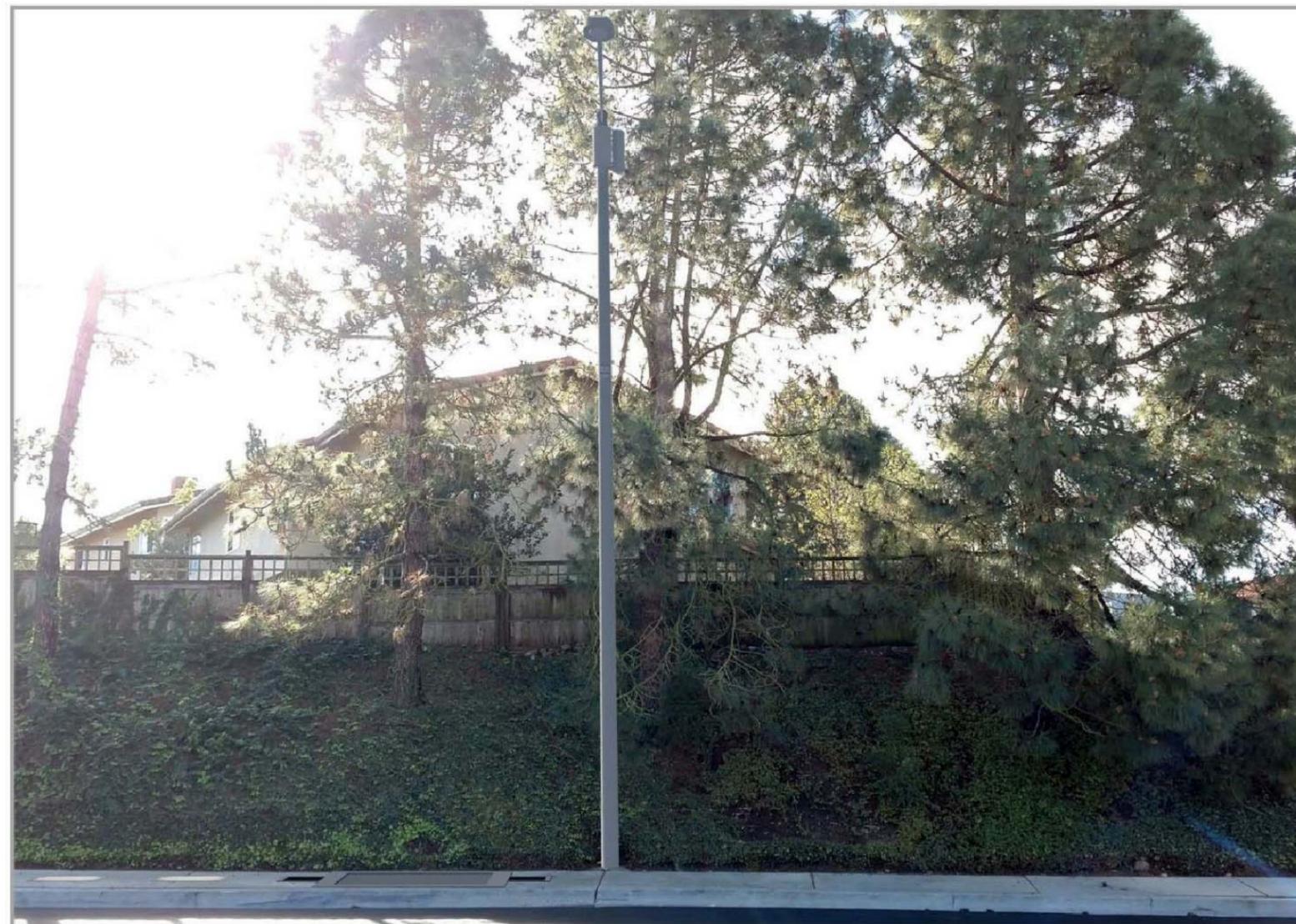
SHEET TITLE
PHOTO SIMULATION

SHEET NUMBER
PS-2



LOCATION

©2016 Google Maps



PROPOSED

LOOKING SOUTHEAST FROM CIRCLET DR



ASG36m3

ADJACENT TO 28716 CIRCLET DR RANCHO PALOS VERDES CA 90275



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 REPLACEMENT STEEL POLE

SHEET TITLE
 PHOTO
 SIMULATION

SHEET NUMBER
PS-3



LOCATION ©2016 Google Maps



EXISTING LOOKING SOUTH FROM CIRCLET DR



ASG36m3

ADJACENT TO 28716 CIRCLET DR RANCHO PALOS VERDES CA 90275



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 RANCHO PALOS VERDES, CA 90275
 REPLACEMENT STEEL POLE

SHEET TITLE
**PHOTO
 SIMULATION**

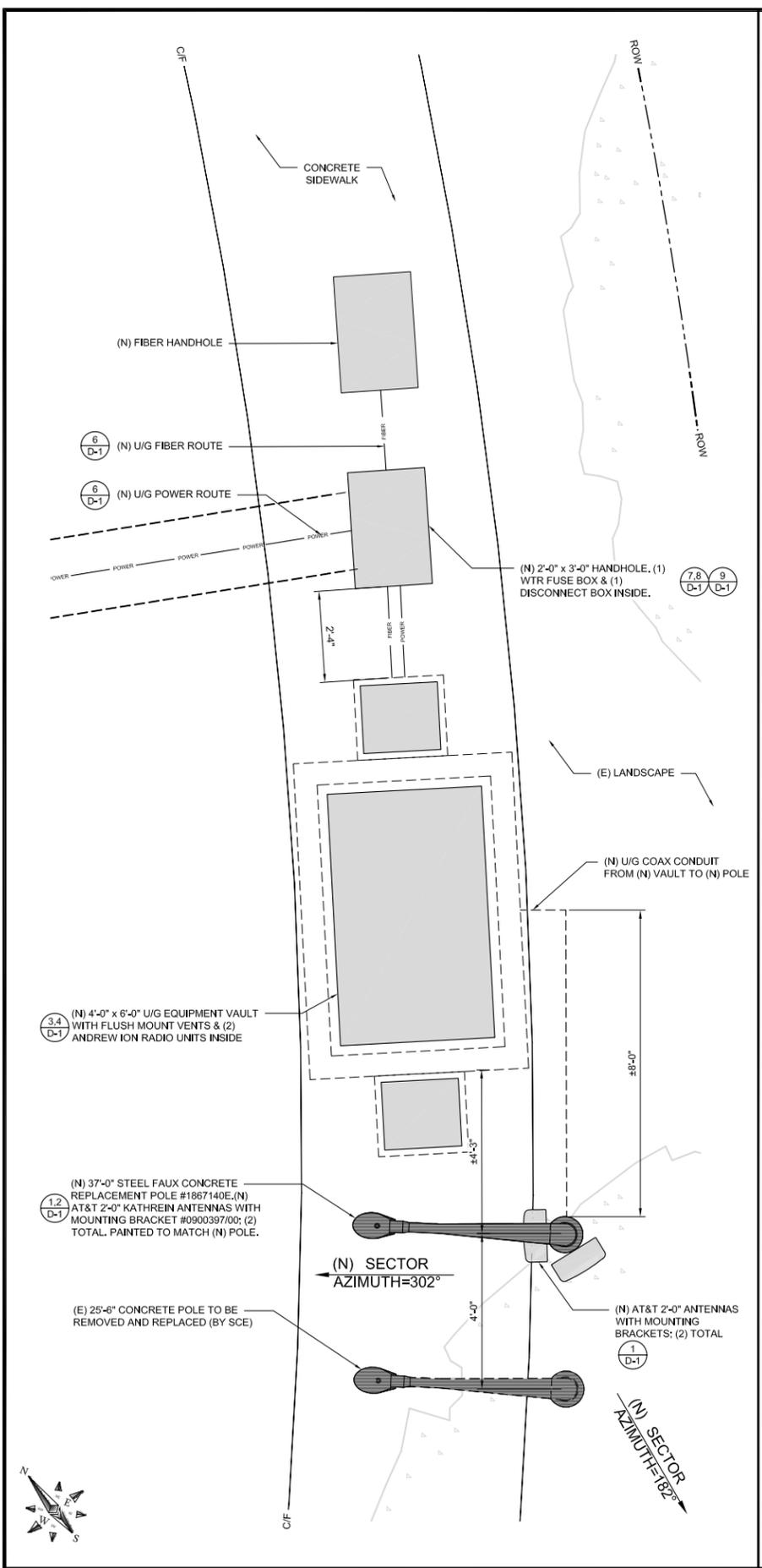
SHEET NUMBER
PS-4



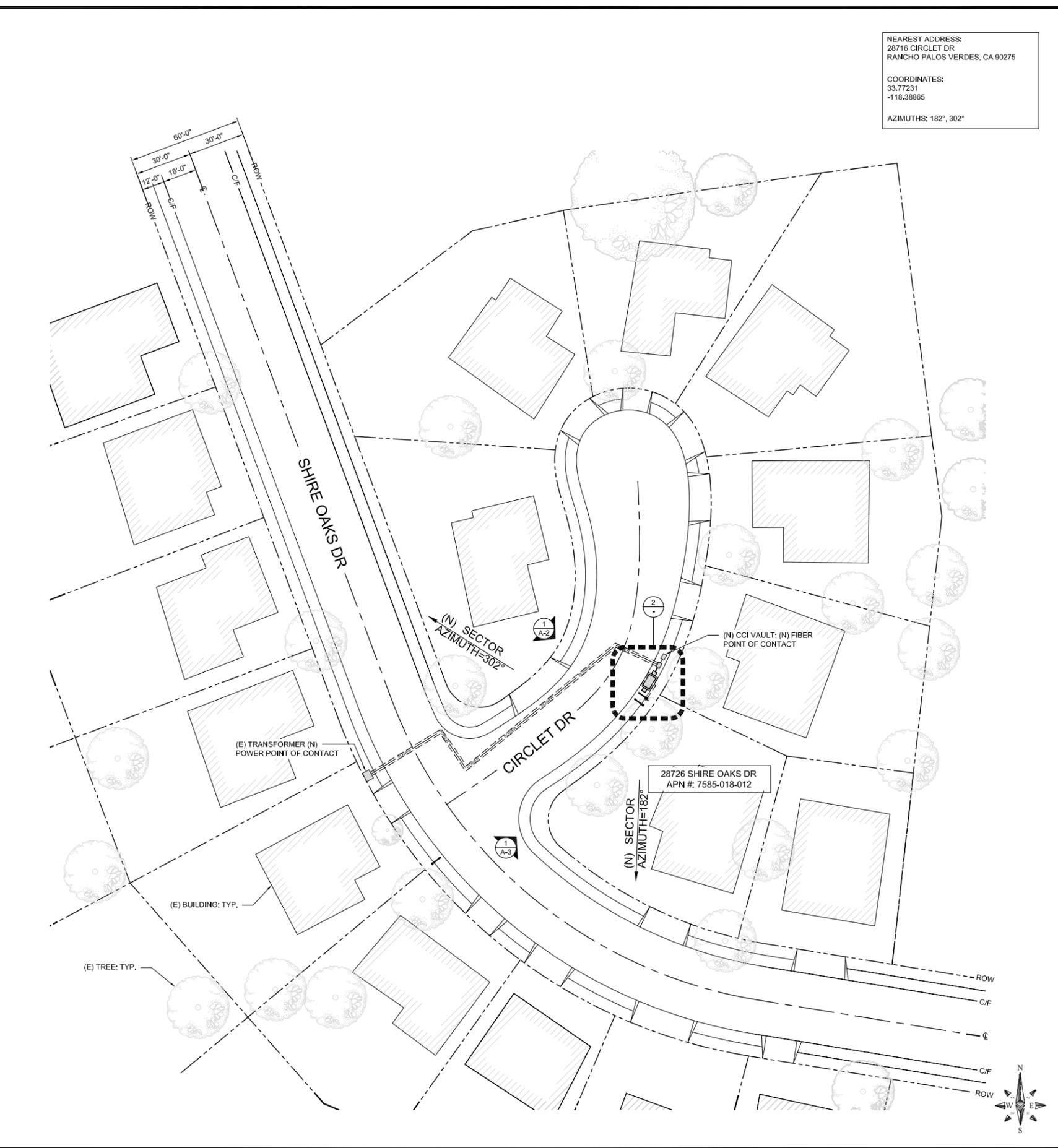
LOCATION ©2016 Google Maps



PROPOSED **LOOKING SOUTH FROM CIRCLET DR**



ENLARGED PLAN 24"x36" SCALE: 1/2" = 1'-0" 11"x17" SCALE: 1/4" = 1'-0" **2**



SITE PLAN 24"x36" SCALE: 1" = 30'-0" 11"x17" SCALE: 1" = 15'-0" **1**

NEAREST ADDRESS:
 28716 CIRCLET DR
 RANCHO PALOS VERDES, CA 90275
 COORDINATES:
 33.77231
 -116.38865
 AZIMUTHS: 182°, 302°



CROWN CASTLE
 38 TECHNOLOGY DR., STE. 250,
 IRVINE, CA 92618

M SQUARE WIRELESS
 1387 CALLE AVANZADO
 SAN CLEMENTE CA 92673 (949) 361-8824

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REPLACEMENT STEEL POLE

SHEET TITLE
SITE PLAN AND ENLARGED SITE PLAN

SHEET NUMBER
A-1

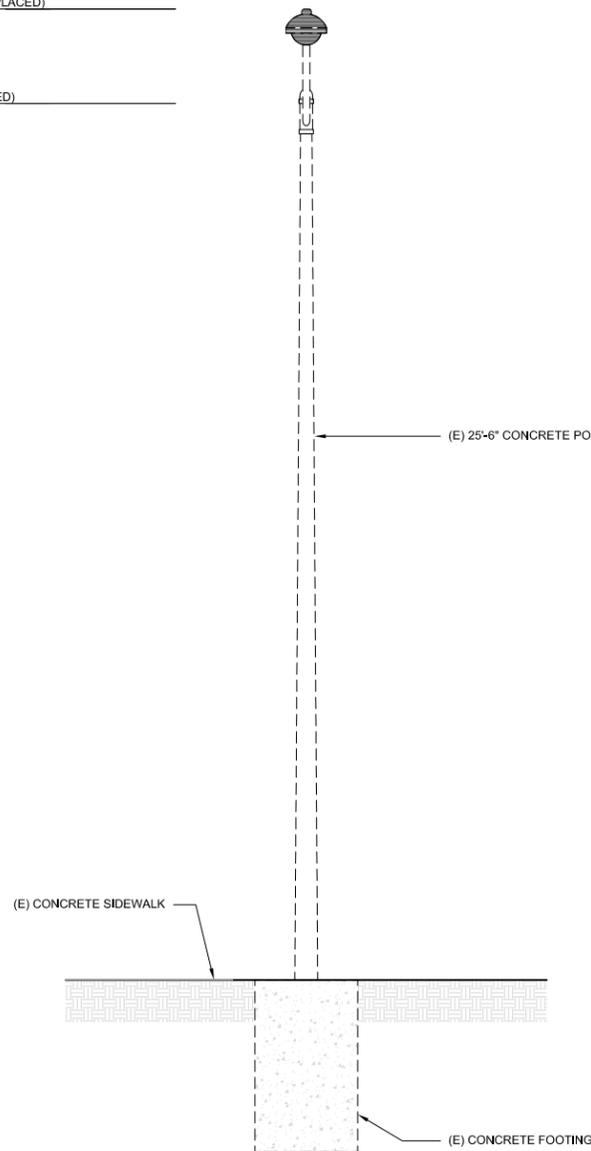
NOTES:

1. TREE AND BUSHES NOT SHOWN FOR CLARITY.
2. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITIONS.
4. NEW ANTENNAS, EQUIPMENT, AND MOUNTING HARDWARE TO BE PAINTED AND TEXTURED TO MATCH POLE.
5. RESTORE ASPHALT & ALL DISTURBED SURFACES BY NEW CABLE ROUTE PER CITY STANDARDS.
6. SCE TO INSTALL A NEW REINFORCED FOUNDATION AND REPLACE THE EXISTING STREET LIGHT POLE 3 FEET TO THE RIGHT OR LEFT SIDE. (SCE TO DETERMINE WHICH SIDE)

TOP OF (E) STREETLIGHT LUMINAIRE (TO BE REMOVED AND REPLACED)
28'-3" A.G.L.

TOP OF (E) STREET LIGHT POLE (TO BE REMOVED AND REPLACED)
25'-6" A.G.L.

(E) GROUND LEVEL
0'-0" A.G.L.



EXISTING NORTHWEST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"
0" 1' 2' 4'

1

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TOP OF (N) STREETLIGHT LUMINAIRE
39'-9" A.G.L.

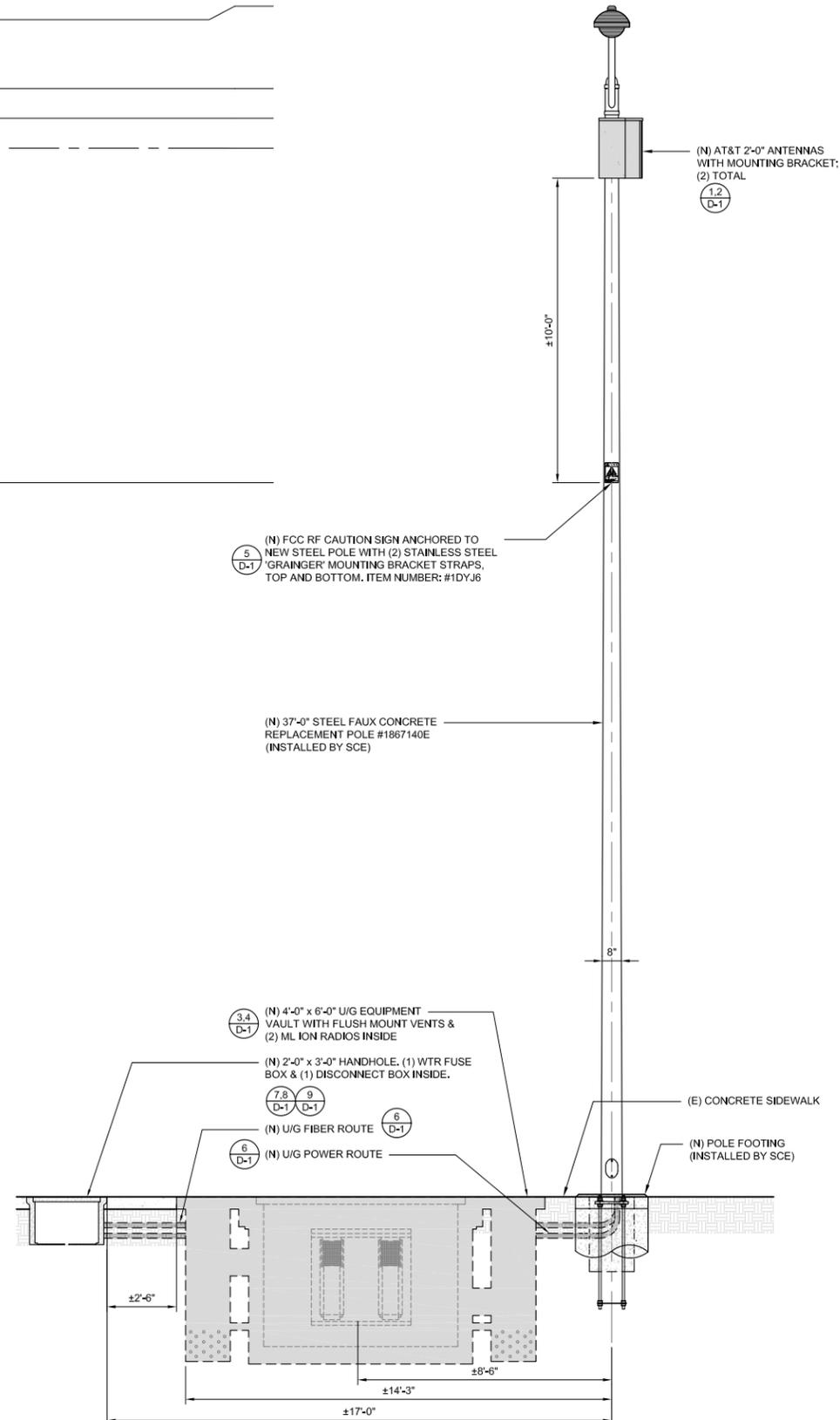
TOP OF (N) STREETLIGHT POLE
37'-0" A.G.L.

TOP OF (N) AT&T ANTENNAS (APPROX.)
36'-0" A.G.L.

(N) AT&T ANTENNA RAD CENTER (APPROX.)
35'-0" A.G.L.

BOTTOM OF (N) CAUTION SIGN
23'-10" A.G.L.

(E) GROUND LEVEL
0'-0" A.G.L.



NEW NORTHWEST ELEVATION

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0" 1' 2' 4'

2



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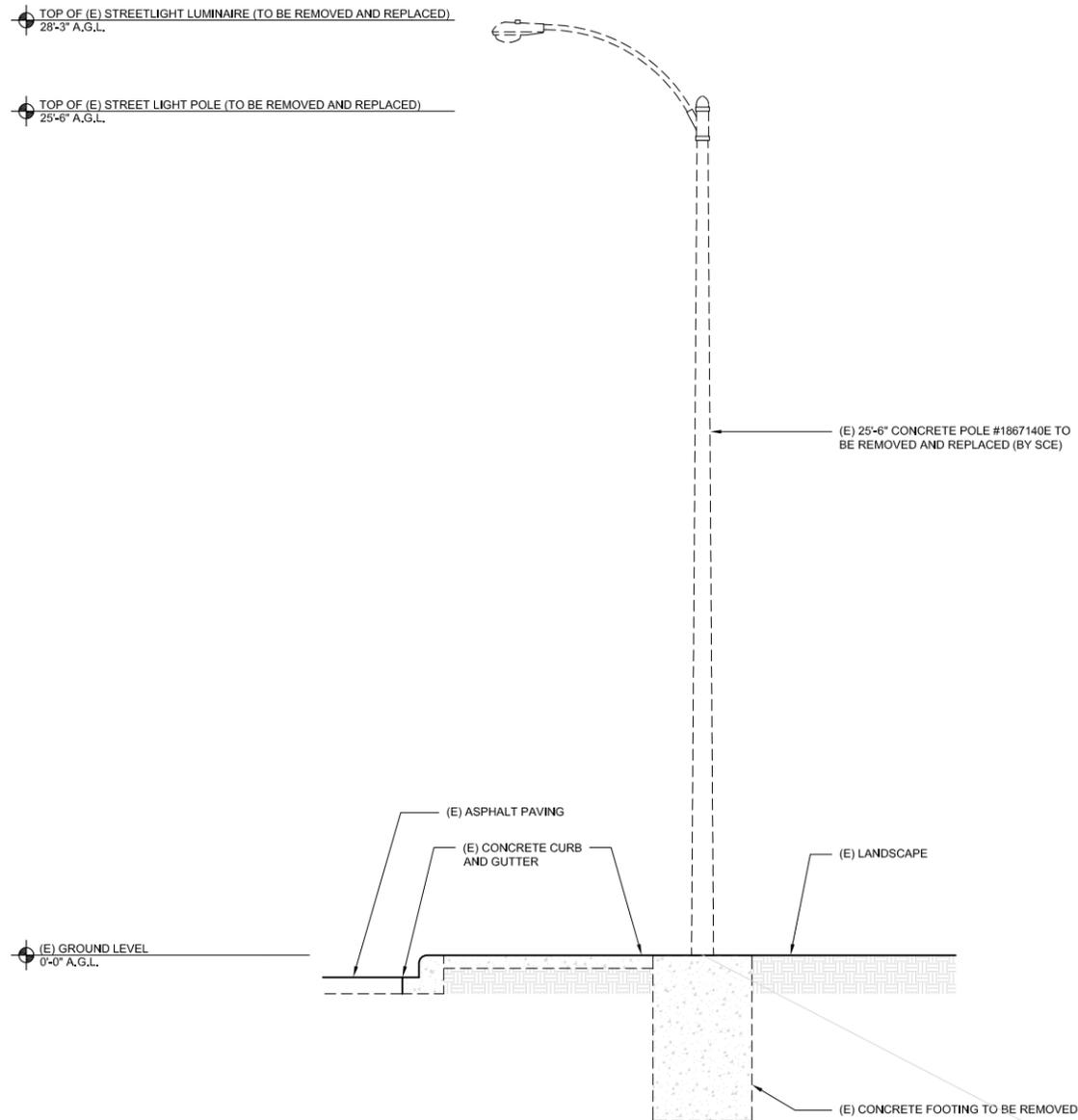
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SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-2

NOTES:

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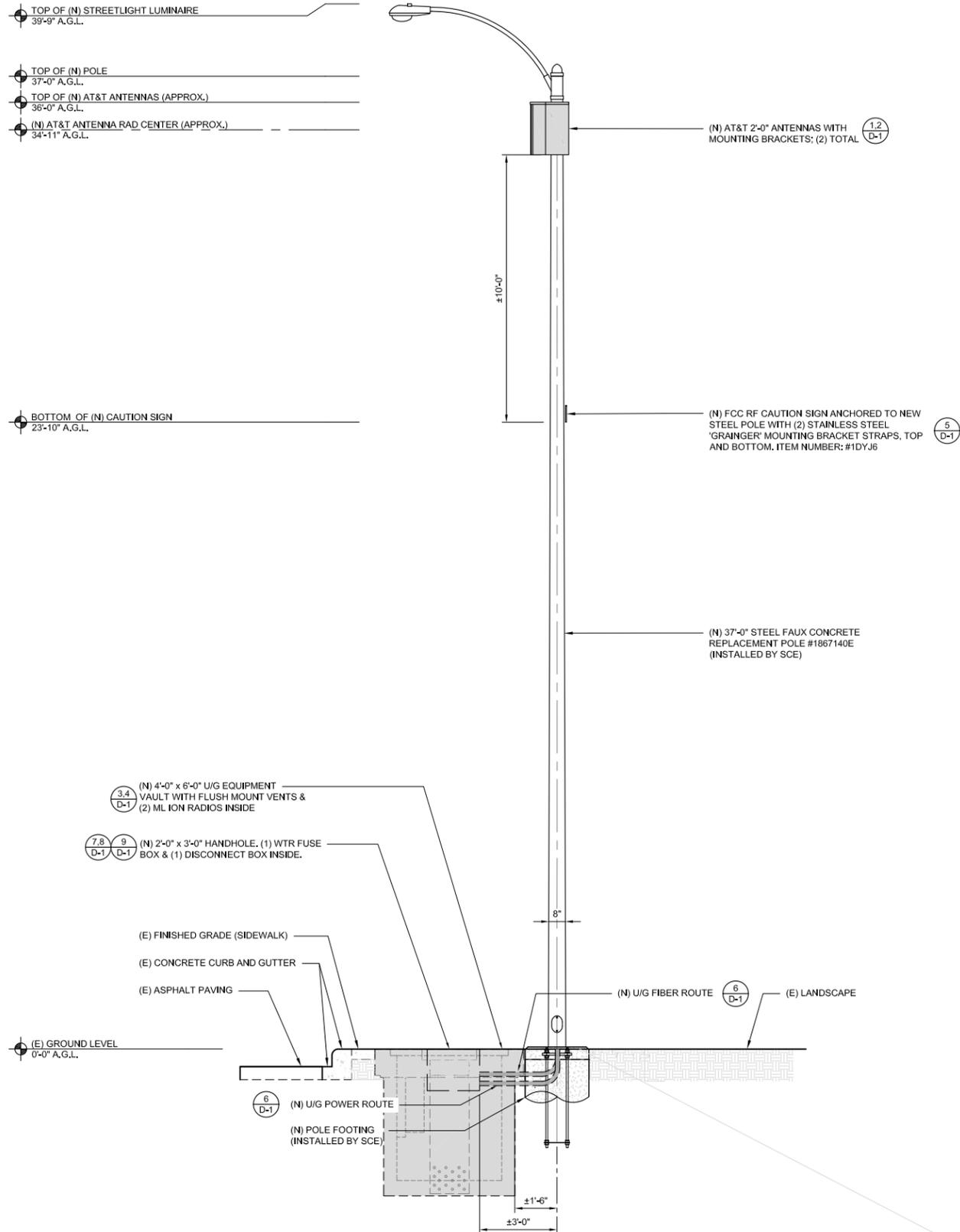


EXISTING SOUTHWEST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
11"x17" SCALE: 3/16" = 1'-0"
0" 1' 2' 4'

NOTES:

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NEW SOUTHWEST ELEVATION

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0" 1' 2' 4'



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REPLACEMENT STEEL POLE

SHEET TITLE
ELEVATIONS

SHEET NUMBER
A-3

NOT USED

6

NOT USED

3

NOT USED

7

NOT USED

4

SINGLE LINE DIAGRAM

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1

NOT USED

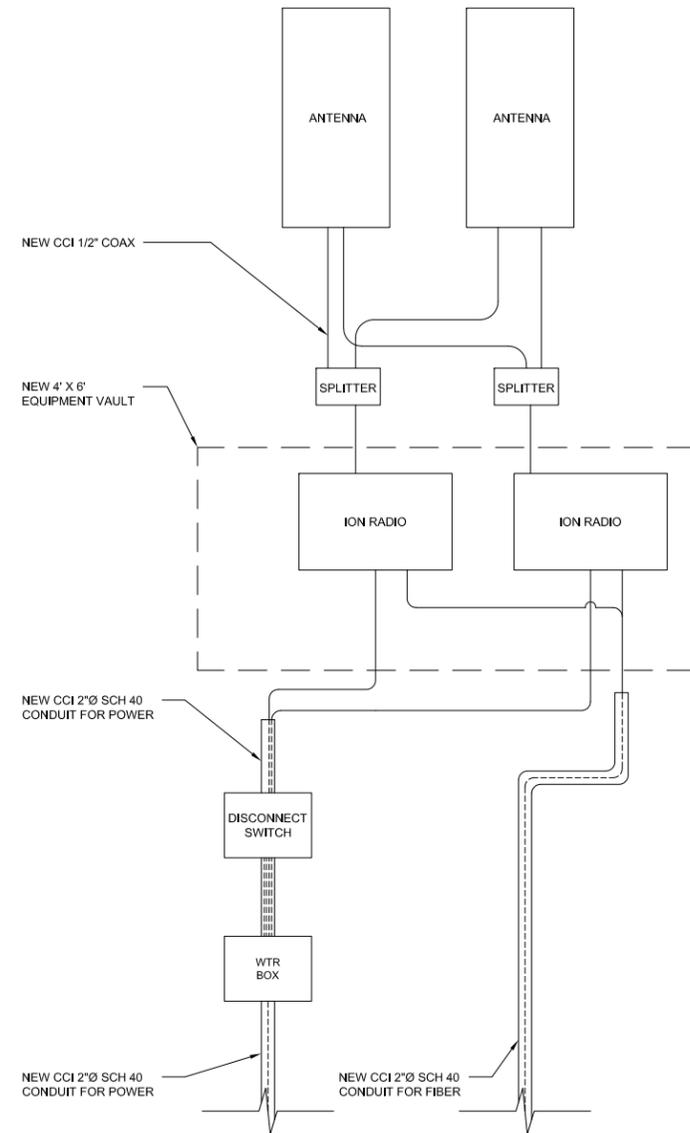
8

NOT USED

5

NOT USED

2



CROWN CASTLE

38 TECHNOLOGY DR., STE. 250,
IRVINE, CA 92618



M SQUARE WIRELESS

1387 CALLE AVANZADO
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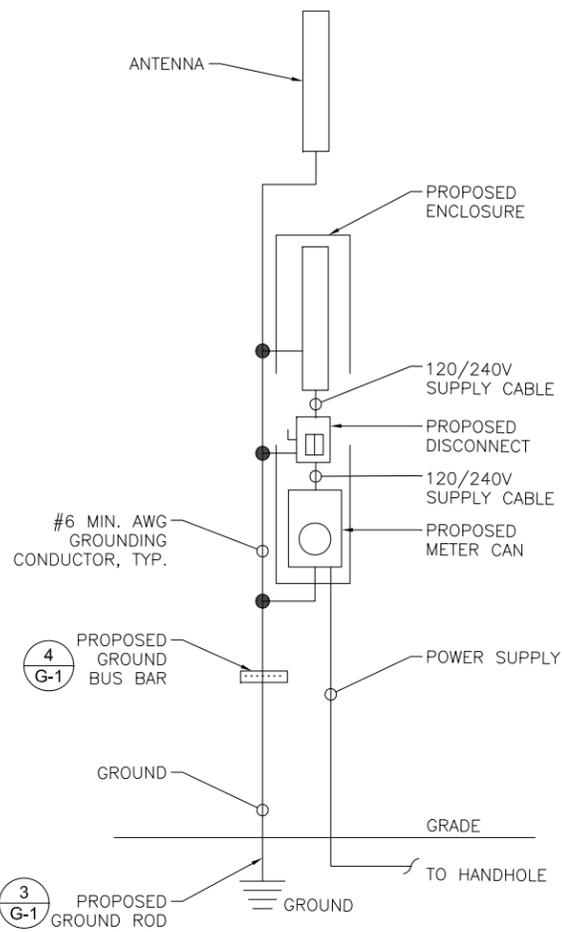
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SHEET TITLE
ELECTRICAL DETAILS

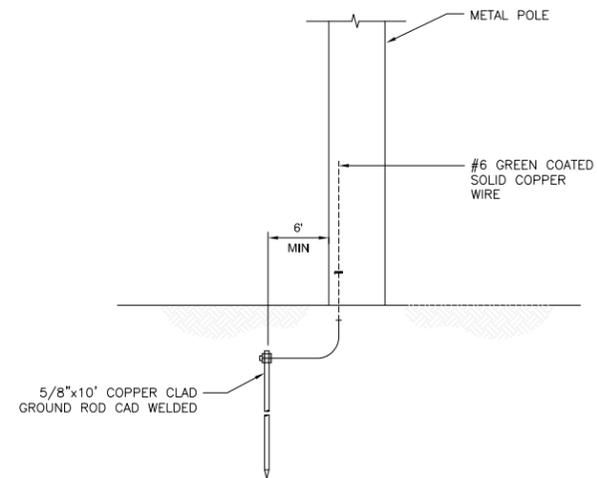
SHEET NUMBER
E-1



GROUNDING SCHEMATIC

24"x36" SCALE: NTS
11"x17" SCALE: NTS

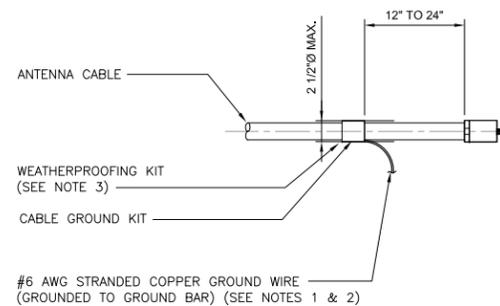
7



GROUNDING ROD

24"x36" SCALE: NTS
11"x17" SCALE: NTS

4



NOTES:

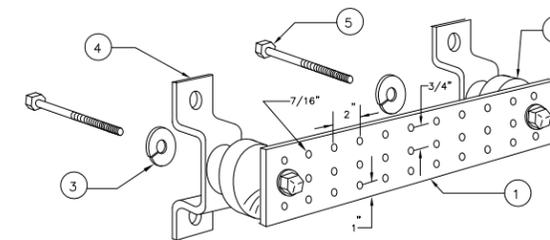
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE ANDREW SUREGROUND TYPE KIT WITH TWO-HOLE LUG.
- WEATHER PROOFING SHALL BE ANDREW TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED

CABLE GROUND KIT CONNECTION

24"x36" SCALE: NTS
11"x17" SCALE: NTS

5

GROUNDING DETAILS



LEGEND

- COPPER GROUND BAR, NEW TON INSTRUMENT CO. OR EQUIVALENT. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- INSULATORS, NEW TON INSTRUMENT CO. CAT. NO. 3061-4 OR EQUIVALENT.
- 5/8" LOCK WASHERS, NEW TON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUIVALENT.
- WALL MOUNTING BRACKET, NEW TON INSTRUMENT CO. CAT. NO. A-6056 OR EQUIVALENT.
- 5/8-11 x 1" H.H.C.S. BOLTS, NEW TON INSTRUMENT CO. CAT. NO. 3012-1 OR EQUIVALENT.

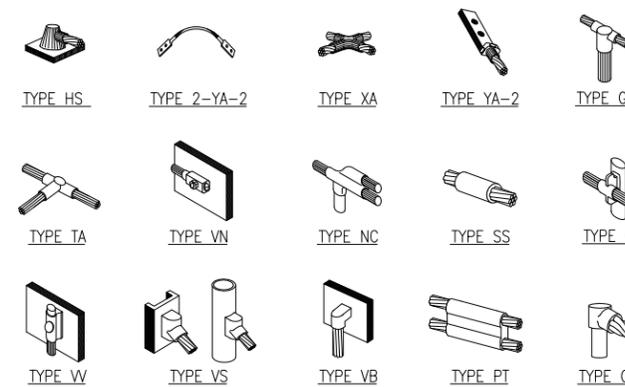
NOTES:

- ALL MOUNTING HARDWARE CAN ALSO BE USED ON 6", 12", 18", ETC. GROUND BARS.
- ENTIRE ASSEMBLY AVAILABLE FROM NEWTON INSTRUMENT CO. CAT. NO. 2106060010.
- PROVIDE SECURITY HARDWARE TO PREVENT THEFT

GROUND BUS BAR

24"x36" SCALE: NTS
11"x17" SCALE: NTS

1



NOTE:

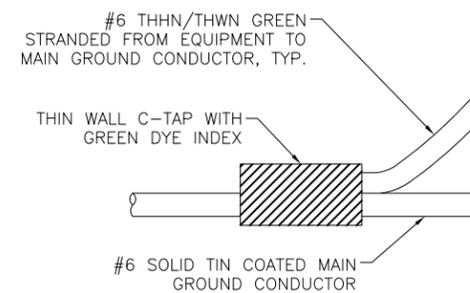
ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.

CADWELDS

24"x36" SCALE: NTS
11"x17" SCALE: NTS

2

NOTE:
CONTRACTOR TO SURROUND COMPLETED CONNECTION WITH HEAT-SHRINK TUBING TO ENSURE WEATHER PROOF CONNECTION



C-TAP CONNECTIONS

24"x36" SCALE: NTS
11"x17" SCALE: NTS

3

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

8

NOT USED

24"x36" SCALE: NTS
11"x17" SCALE: NTS

6



38 TECHNOLOGY DR., STE. 250,
IRVINE, CA 92618



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

DRAWN BY: BM

CHECKED BY: MM

REV	DATE	DESCRIPTION
A	04/18/2018	90% CD'S FOR REVIEW

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ATTASG36M3
CROWN CASTLE SITE ID:
CROWN CASTLE NG WEST
28716 CIRCLET DR
RANCHO PALOS VERDES, CA 90275
REPLACEMENT STEEL POLE

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1