

Note: All antenna locations are built according to this attachment. The only change is location and directions.

# PRIVATE LTE NETWORK SERVICES P679128 "B"

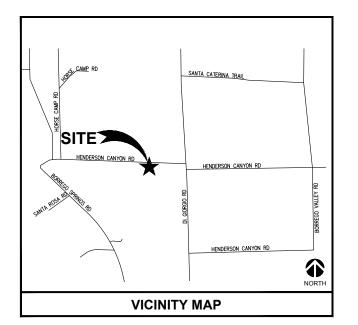
# LOCATION: PUBLIC RIGHT OF WAY HENDERSON CANYON RD & DI GIORGIO RD, BORREGO SPRINGS, CA 92004

**OVERALL HEIGHT = 36FT** 

ARCHITECT: RF ENGINEER: NESTOR POPOWYCH, A.I.A. PRINCIPAL ARCHITECT SAC AE DESIGN GROUP, INC NOKIA OF AMERICA 5015 SHOREHAM PL, SUITE 150 SAN DIEGO, CA 92122 CONTACT: 5015 SHOREHAM PL, SUITE 150 SAN DIEGO, CA 92122 CONTACT: PROJECT MANAGER: EQUIPMENT ENGINEER: NOKIA OF AMERICA NOKIA OF AMERICA 5015 SHOREHAM PL, SUITE 150 SAN DIEGO, CA 92122 JOSEPH ORTILLO 5015 SHOREHAM PL, SUITE 150 SAN DIEGO, CA 92122 SAM PARRI CONTACT: (469) 212-3803 (972) 322-5568

APPROVAL			
APPROVED BY:	INITIALS:	DATE:	
WIRELESS SERVICES DIVISION			
GENERAL SERVICES REAL ESTATE SERVICES			
GENERAL SERVICES PROJECT MANAGEMENT			
SAN DIEGO GAS & ELECTRIC			

**PROJECT TEAM** 



SAN DIEGO, CA 92123	BORREGO SPRINGS, CA 92004
MERGE ONTO CA- CA 163N BECOMES USE THE RIGHT LI USE THE RIGHT 2. USE THE LEFT 2. CONTINUE ONTO 1 CONTINUE ONTO 1 TURN LEFT ONTO	S-1-15N INE TO TAKE EXIT 17 FOR MERCY RD TOWARD SCRIPPS POWAY PKWY LANES TO TURN RIGHT ONTO SCRIPPS POWAY PKWY ANES TO TURN LEFT ONTO CA-67 N MAIN ST 3A-78 EJJULIAN RD CA-79 N ) SAN FELIPE RD MONTEZUMA VALLEY RD / HWY S22 (17.43 MILES) ) PALM CANYON DR (1.97 MILES)

**DIRECTIONS** 

FROM: 8315 CENTURY PARK COURT, CP22D, TO: HENDERSON CANYON RD & DI GIORGIO RD,

APPLICANT  SAN DIEGO GAS & ELECTI CENTURY PARK COURT, ( SAN DIEGO, CA 92123 CONTACT: TELEPHONE:				
PROPERTY OWNER PUBLIC RIGHT OF WAY (C		LOCAL JURISDICTION  COUNTY OF SAN DIEGO  5510 OVERLAND AVENUE		
PROPERTY INFORM	MATION	1ST FLOOR, STE. 110 SAN DIEGO, CA 92123		
SITE NAME:	P679128 "B"			
SITE ADDRESS:		HENDERSON CANYON RD & DI GIORGIO RD, BORREGO SPRINGS, CA 92004		
ASSESSOR PARCEL NUMB	ER: N/A			
GEODETIC COORDINATES (New Pole)				
LAT. LONG. ELEVATION	33° 18' 04.62" N 116° 22' 09.89" \ 666FT			
PROJECT SUMMARY				

-	OF THE RU CABINE! (2) 2FT MICROWAVES AT 35FT RADCENTER AGL BY SEMPRA ENERGY UTILITY (3) 4FT PANEL ANTENNAS AT 31FT RADCENTER AGL (3) RRHS MODEL ADHB AT 27-4" RADCENTER AGL (3) RRHS MODEL APHB AT 27-4" RADCENTER AGL (3) RRHS MODEL FW2QQF AT 25FT RADCENTER AGL (3) NEMA BOX FOR HYBRID EXCESSIVE CABLE
-	(1) NEW 35FT STEEL POLE & FOUNDATION BY SEMPRA ENERGY UTILITY 4'X10' FOUNDMENT CONCRETE PAD (1) COMMSCOPE CMC 35-RU EQUIPMENT CABINET (1) COMMSCOPE CMC 35-BATTERY CABINET (2) ELECTRICAL PANELS MOUNTED PRE-WIRED BY MANUFACTURER ON THE SIDE OF THE RU CABINET

FACILITY IS UNMANNED AND ACCESSIBILITY IS NOT REQUIRED IN ACCORDANCE WITH THE 2016 CBC SECTION IIB-203.5

**ACCESSIBILITY REQUIREMENTS** 

SHEET	DESCRIPTION	REV
T1	TITLE SHEET	1
T2	GENERAL NOTES, SPECIFICATIONS, LEGEND	1
A1	SITE PLAN	1
A2	EQUIPMENT & ANTENNA LAYOUT	1
А3	EAST & WEST ELEVATIONS	1
A4	ANTENNA & EQUIPMENT DETAILS	1
A5	POLE RING MOUNT	1
A6	INTERIOR EQUIPMENT DETAIL & BOLLARD PROTECTION	1
E1	1-LINE DIAGRAM & PANEL SCHEDULE	1
G1	GROUNDING PLANS, SCHEMATIC DIAGRAM & NOTES	1
G2	GROUNDING DETAILS	1
	SHEET INDEX	

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECTIENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

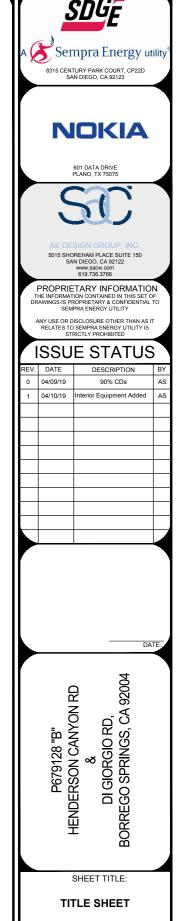
## **GENERAL CONTRACTOR NOTES**

- 3, 2016 CALIFORNIA FIRE CODE

**CODE COMPLIANCE** 

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WIT
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.
1, 2016 CALIFORNIA BUILDING CODE

2. 2016 CALIFORNIA ELECTRICAL CODE



### **GENERAL NOTES:**

- 1. THIS PROJECT IS A SEMPRA ENERGY UTILITY PRIVATE LTE NETWORK SERVICES. THIS IS AN UNMANNED
- THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER 2016 CBC SECTION 11B-203.5. THIS
  FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT
  FOR HUMAN OCCUPANCY.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT / ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
- 4. THE CONTRACTOR SHALL NOTIFY ARCHITECT / ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT.
- 5. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600 (2) WORKING DAYS BEFORE YOU DIG.
- 6. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGES AREA.
- 7. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT W/ REDLINE DRAWINGS TO THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
- 9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, AND 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
- 11. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
- 12. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
- 13. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
- 15. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY
- 16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR
- SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
- 17. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- 18. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- 19. THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
- 20. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL
- GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.

  21. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN
- 22. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN

CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.

BROOM FINISHED CONDITION AT ALL TIMES.

- 23. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
- 24. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

### CONCRETE

#### REINFORCEMENT

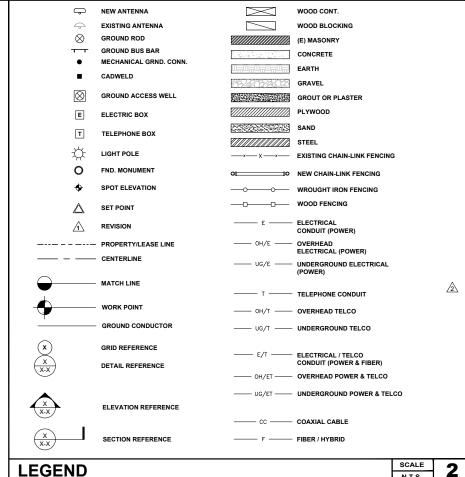
- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS OTHERWISE NOTED.
- 2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS. BARS TO BE WELDED SHALL BE ASTM A706
- 3. FOOTING/FOUNDATION BARS NOTED "CONT." SHALL HAVE A MINIMUM LAP SPLICE EQUAL 40 BAR DIAMETERS LAP, OR 24" WHICHEVER IS GREATER.
- $\!4.$  REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICE AT OTHER LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- 5. ALL REINFORCING, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACING
- 6. #5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF THE ENGINEER.

#### CONCRETE (GENERAL)

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-14
- 2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,500 PSI. UNLESS OTHERWISE SPECIFIED. WATER/CEMENT RATIO IS 0.45 AND AIR CONTENT SHALL COMPLY RESPECTIVELY WITH ACI 318 SECTIONS 19.3.2.1 & 19.3.3.1.
- 3. CEMENT FOR CONCRETE SHALL BE TYPE V "PORTLAND CEMENT" AND CONFORM TO ASTM C-150 STANDARDS, UNLESS OTHERWISE SPECIFIED.
- 4. AGGREGATE FOR CONCRETE SHALL CONFORM TO ASTM C-33 STANDARDS.
- 5. CONCRETE SHALL BE DEPOSITED IN ACCORDANCE WITH 318-14 SECTION 26.5.2 RECOMMENDED PRACTICE FOR CONSOLIDATION OF CONCRETE.
- 6. COLD WEATHER AND HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318-14 SECTION 19.3.3.1, AND SECTIONS 26.5.4 & 26.5.5.
- 7. AFTER PLACEMENT, THE CONCRETE SHALL BE COVERED WITH A PLASTIC VAPOR BARRIER FOR A 4 TO 7
- 8. TESTING OF CONCRETE SHALL BE PER 2016 CBC. SECT. 1705A.3 AND 1903A.
- 9. TOP OF CONCRETE SLAB TO BE 4" MINIMUM ABOVE FINISH GRADE. UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS
- 10. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE PLACEMENT OF ALL ROUGH HARDWARE AND ALL ITEMS OF OTHER TRADES REQUIRED TO BE EMBEDDED IN CONCRETE WORK.

## STRUCTURAL METAL

- 1. ALL STRUCTURAL STEEL SHALL COMPLY WITH MOST RECENT ASTM A-36 STANDARDS.
- 2. ALL CONNECTIONS AND FABRICATIONS SHALL COMPLY WITH MOST RECENT A.I.S.C. SPECIFICATIONS.
- 3. USE ALL MEANS NECESSARY TO PROTECT STRUCTURAL STEEL BEFORE DURING AND AFTER INSTALLATION AND TO PROTECT THE INSTALLED WORK AND MATERIALS OF ALL OTHER TRADES.
- 4. IN THE EVENT OF DAMAGE IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT & THE DSA AND AT NO ADDITIONAL COST TO THE OWNER.
- 5. MACHINE BOLTS AND ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A-307 (SAE J429 Gr. 2).
- ALL EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. MINIMUM GALVANIZED THICKNESS = 2 oz/FT<sup>2</sup> OR 3.4 MILS.
- WELDING:
  - 7.1 ALL WELDING SHALL BE PERFORMED BY OPERATORS WHO HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN MOST RECENT "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY.
  - 7.2 INSPECTION OF ALL SHOP AND FIELD WELDING OPERATIONS SHALL BE MADE BY A QUALIFIED WELDING INSPECTOR APPROVED BY THE DSA IN ACCORDANCE WITH 2016 CBC SECTION 1705A.2.5 AND DSA INTERPRETATION OF REGULATIONS IS 17-3 AND IR A-15
  - 7.3 WELDS SHALL BE MADE WITH E-70XX SERIES ELECTRODES FOR STEEL TO STEEL CONNECTIONS CONFORMING TO AWS A5.1, UNLESS OTHERWISE NOTED.
  - 7.4 ALL WELDING DONE ON HOT-DIPPED GALVANIZED STEEL SHALL BE PROTECTED BY AT LEAST TWO COATS OF WELCO SUPER COLD-GALV APPLIED PER MANUFACTURERS REQUIREMENTS.



N.T.S. ABBREVIATION **ABBREVIATION** DEFINITION DEFINITION ANCHOR BOLT HANGER HANGER HEIGHT ISOLATED COPPER GROUND BUS ABOVE ANTENNA CABLE COVER ASSEMBLY ANTENNA CABLE COVER ADDITIONAL ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALUMINUM LB.(#) L.B. L.F. ALTERNATE ANTENNA APPROXIMATE(LY) LAG BOLTS LINEAR FEET (FOOT) AMERICAN WIRE GAUGE MAYIMI IM MACHINE BOLT MECHANICAL MANUFACTURER BLK. BLKG. BLOCK BLOCKING MINIMUM MISCELLANEOUS METAL BM. B.N. BEAM BOUNDARY NAILING BARE TINNED COPPER WIRE BOTTOM OF FOOTING BTCW.
B.O.F.
B/U
CAB.
CANT.
C.I.P.
CLG.
CLR.
COL.
CONC.
CONST.
CONT.
d BACK-UP CABINET CABINET CANTILEVER(ED) CAST IN PLACE NOT TO SCALE ON CENTER OPENING O.C. OPNG P/C PCS PLY. P.O.C. PPC PRC P.S.F. PRECAST CONCRETE PERSONAL COMMUNICATION SERVICES COLUMN CONCRETE CONNECTION(O CONSTRUCTION CONTINUOUS PLYWOOD POINT OF CONNECTION POWER PROTECTION CABINET POUNDS PER SQUARE FOOT PENNY (NAILS) P.S.I. P.T. PWR. QTY. RAD.(R POUNDS PER SQUARE INCH DOUBLE DEPARTMENT DOUGLAS FIR DIAMETER DIAGONAL DIMENSION DRAWING(S) PRESSURE TREATED POWER (CABINET) QUANTITY RADIUS REFERENCE REINFORCEMENT(ING) REQUIRED RIGID GALVANIZED STEEL SCHEDULE DOWEL(S) REQ'D. RGS. SCH. SHT. SIM. SPEC. SQ. S.S. STD. STRUC. TEMP. THK. T.N. T.O.A. T.O.C. T.O.P. EL. ELEC.
ELEC.
ELEV.
EMT.
ENG.
EQ.
EXP.
EXST.(E)
EXST.(F)
FAB.
F.F.G.
FIN.
F.O.M.
F.O.S.
F.O.S.
F.O.W.
F.O.S.
FT.(C) SPECIFICATION(S) ECTRICAL METALLIC TUBING SQUARE STAINLESS STEEL STANDARD STEEL STRUCTURAL FABRICATION(OR) FINISH FLOOR FINISH GRADE FINISH(ED) TOE NAIL
TOP OF ANTENNA
TOP OF CURB
TOP OF FOUNDATION
TOP OF PLATE (PARAPET) OUNDATION FOUNDATION
FACE OF CONCRETE
FACE OF MASONRY
FACE OF STUD
FACE OF WALL
FINISH SURFACE
FOOT(FEET) T.O.S. T.O.W TYP. U.G. TOP OF STEEL TOP OF WALL UNDER GROUND U.L. U.N.O. UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE VERIFY IN FIELD WIDE(WIDTH) GROWTH (CABINET) GAUGE
GALVANIZE(D)
GROUND FAULT CIRCUIT INTERRUPTER
GLUE LAMINATED BEAM WOOD WEATHERPROOF GI. G.F.I. GLB.(GLU-LAM) WEIGHT CENTERLINE GLOBAL POSITIONING SYSTEM

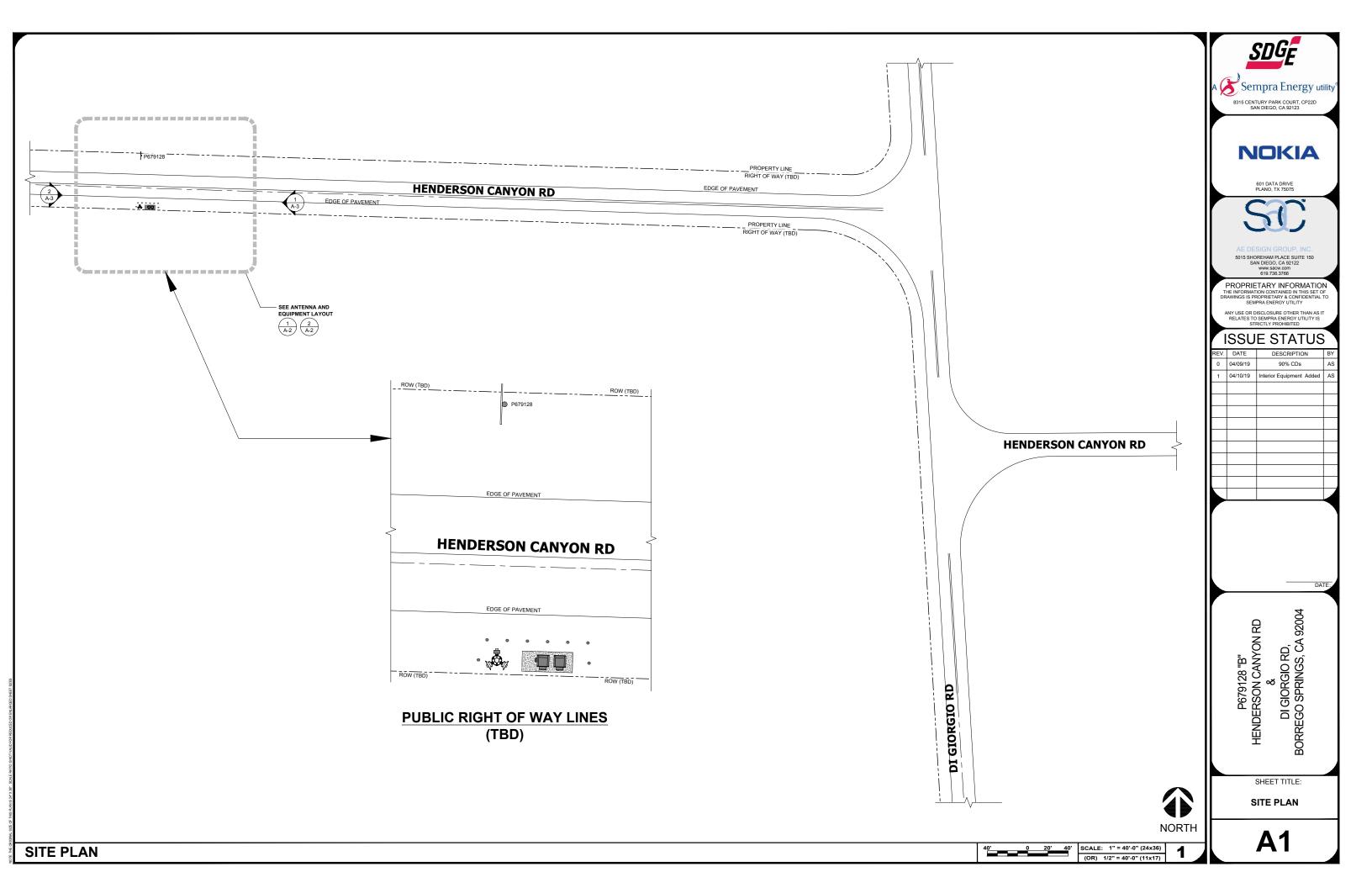
Sempra Energy utility 8315 CENTURY PARK COURT, CP22D SAN DIEGO, CA 92123 NOKIA www.sacw.com 619.736.3766 PROPRIETARY INFORMATION IGS IS PROPRIETARY & CONFIDENTIAL T ANY USE OR DISCLOSURE OTHER THAN AS I RELATES TO SEMPRA ENERGY UTILITY IS STRICTLY PROHIBITED ISSUE STATUS DESCRIPTION 04/09/19 04/10/19 Interior Equipment Added P679128 "B" HENDERSON CANYON RD ʻRD, CA' 0 GIORGI DIG BORREGO **GENERAL NOTES,** SPECIFICATIONS, **LEGEND** 

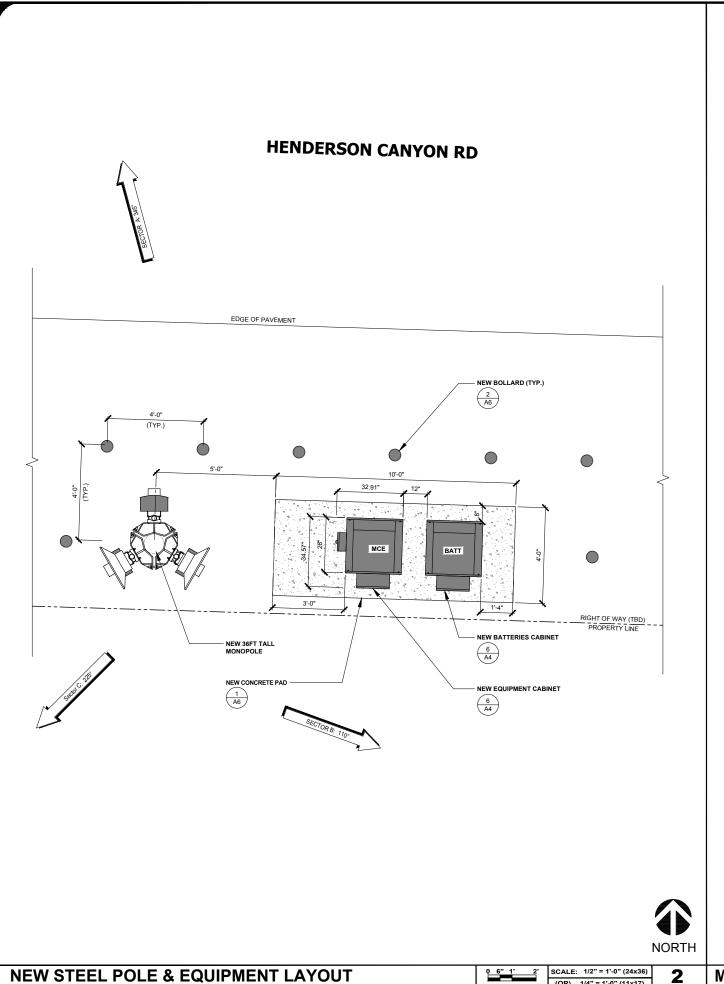
GENERAL NOTES & SPECIFICATIONS

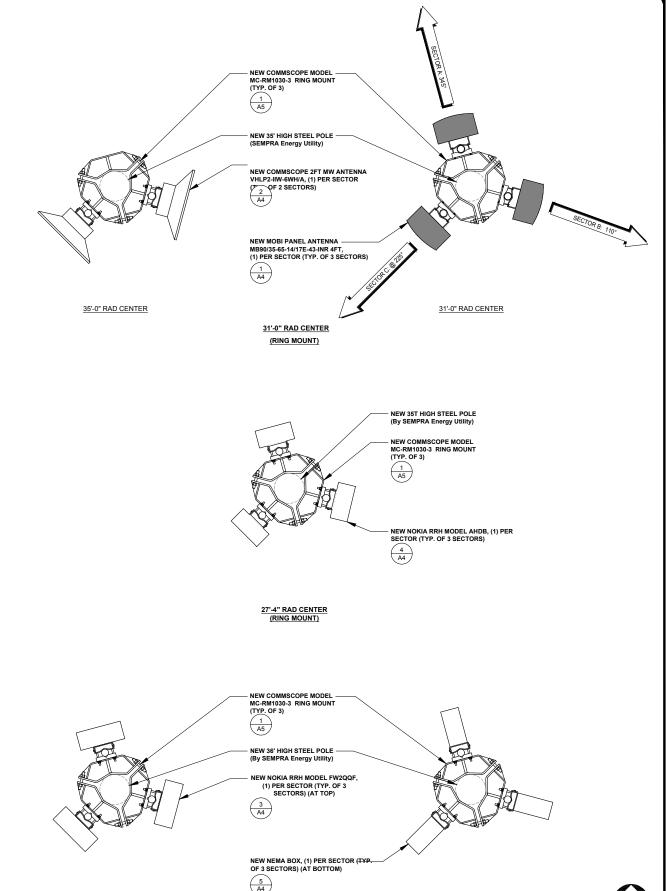
ABBREVIATIONS

N.T.S.

T







**NORTH** 

**EQUIPMENT & ANTENNA LAYOUT** 

SHEET TITLE:

P679128 "B"
HENDERSON CANYON RD
&
DI GIORGIO RD,
BORREGO SPRINGS, CA 92004

Sempra Energy utility 8315 CENTURY PARK COURT, CP22D SAN DIEGO, CA 92123

NOKIA

PROPRIETARY INFORMATION

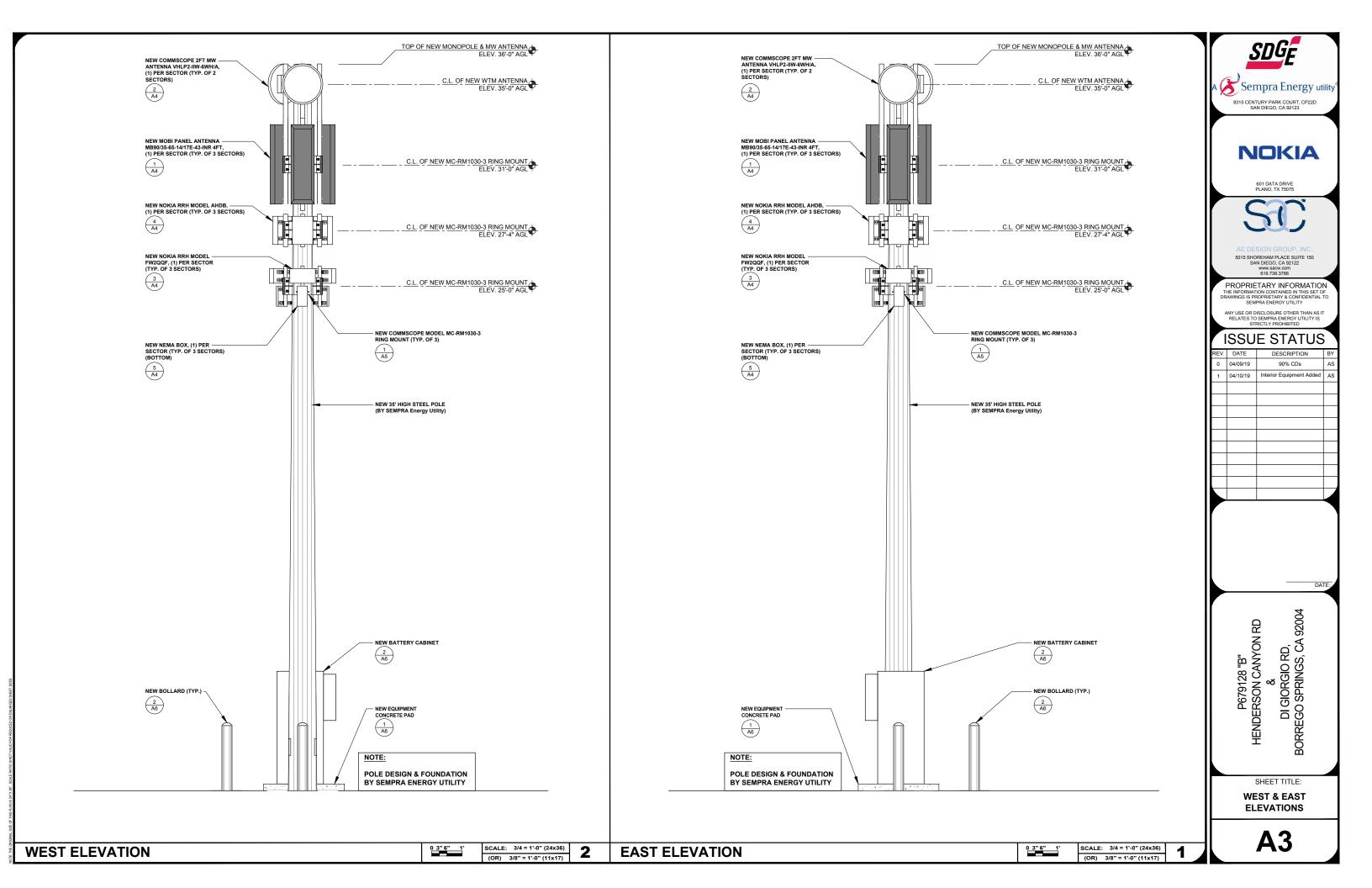
**ISSUE STATUS** 

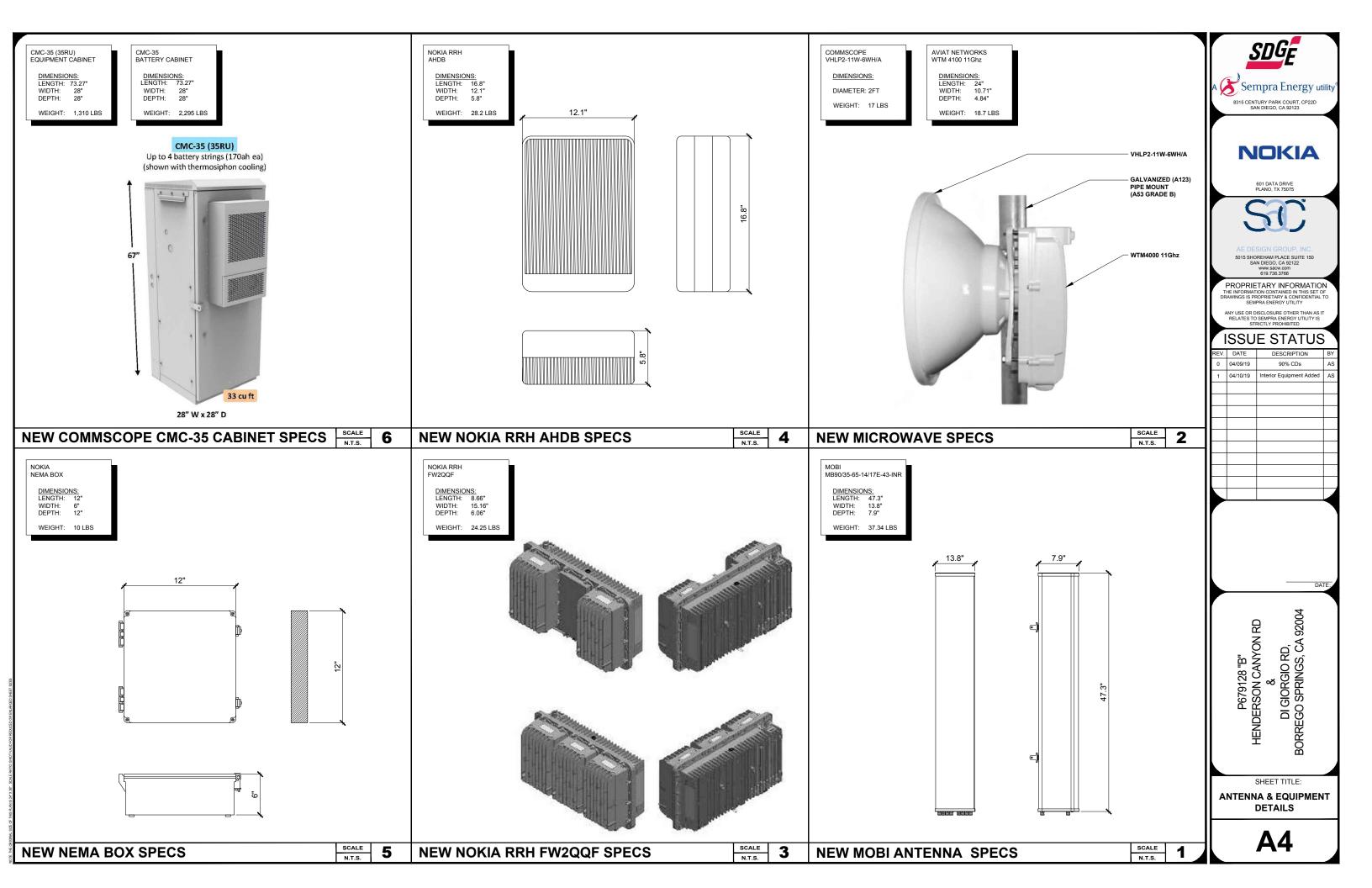
(OR) 1/4" = 1'-0" (11x17)

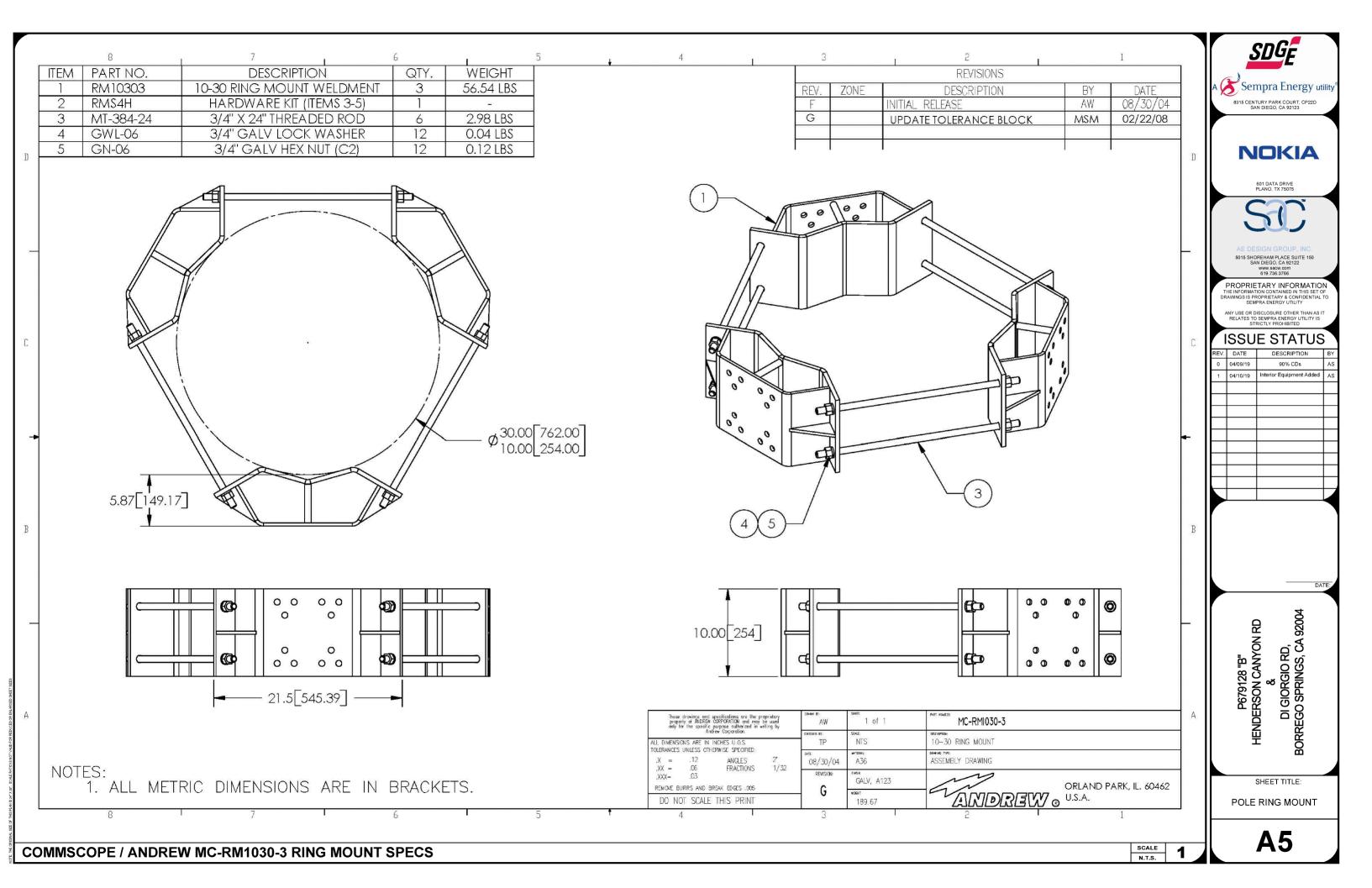
MOBI ANTENNA, NOKIA RRHS & AVIAT MWs LAYOUT

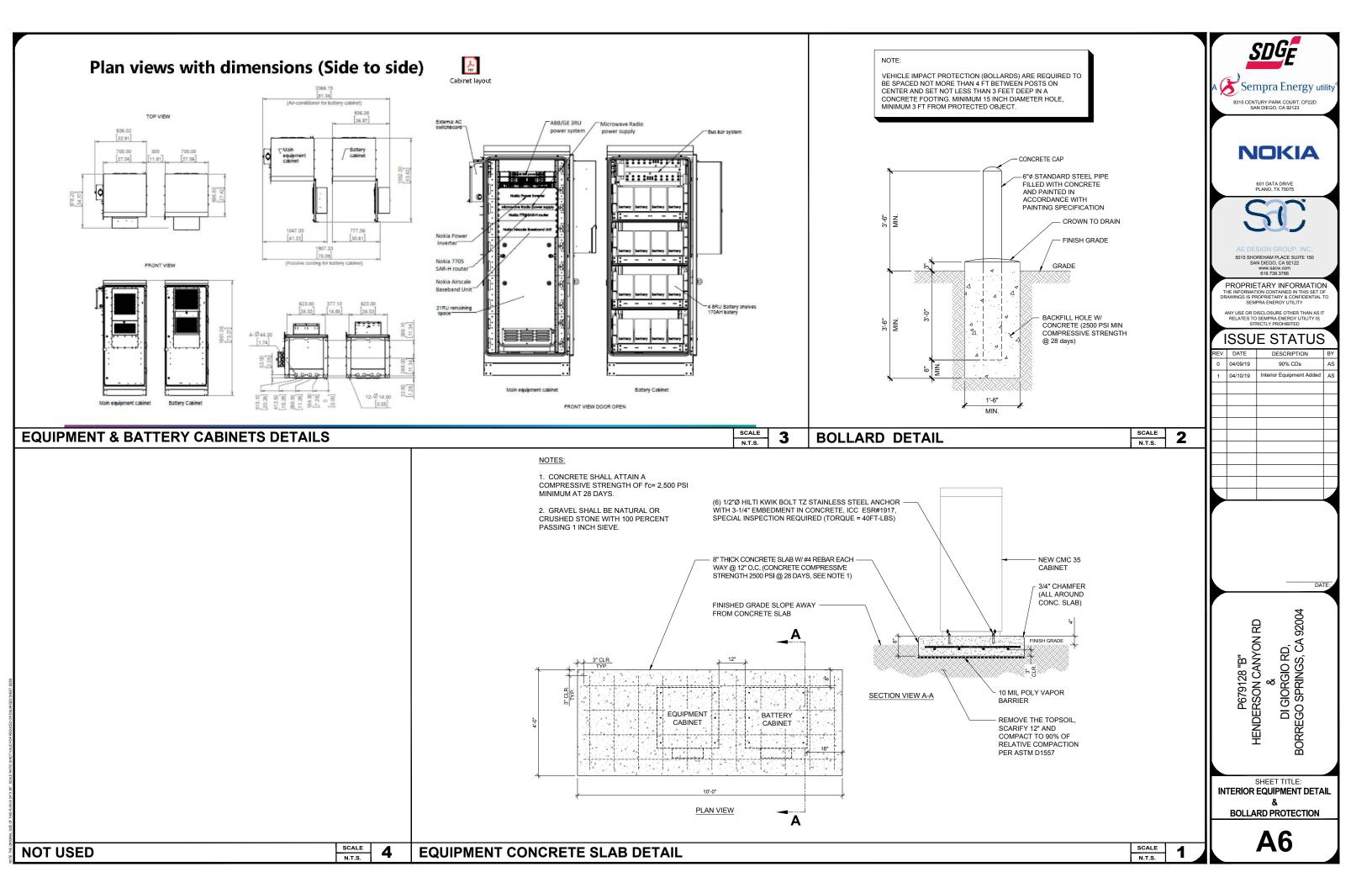
25'-0" RAD CENTER (RING MOUNT)

SCALE: 3/16" = 1'-0" (24x36) (OR) 3/32" = 1'-0" (11x17)









SCALE **NOT USED** N.T.S. THE EQUIPMENT MAIN BREAKER & LOAD CENTER WITH 8 POSITIONS ARE INTEGRATED INSIDE MAIN ELECTRICAL PANEL LOCATED ON THE SIDE OF EQUIPMENT CABINET (ALL PREWIRED BY MANUFACTURER) MAIN ELECTRICAL PANEL- 120/240V, 1PHASE, 3WIRE, 100A, 42KAIC - ENCLOSURE NEMA TYPE 3R. MAIN SERVICE BREAKER - 100A/2P PHASE 2 POS C C POS PHASE 1 DESCRIPTION DESCRIPTION 2 100A 50A 4,300 CMC35 - 35 RU MAIN BREAKER RECTIFIER SHELF 2P 3 4,300 30A / 5 4,300 6 **GFCI OUTLET** SPARE 2,700 SPACE 7,000 LOAD (V.A.) PHASE 2 8,600 LOAD (V.A.) PHASE 1 TOTAL LOAD (V.A) = 15.600 V.A TOTAL LOAD (AMPS) 65 AMPS

**PANEL SCHEDULE** 3

## **SYMBOLS**

(2) E3

GROUND ROD WITH ACCESS XIT GROUND ROD  $\otimes$ DISCONNECT SWITH M UTILITY METER CIRCUIT BREAKER FUSE LIGHT SWITCH

COMPRESSION, CLAMP, OR DOUBLE HOLE LUG TYPE GROUND CONNECTION

EXOTHERMIC CONNECTION (CADWELD) TO GROUND RING AND COMPRESSION TO GROUND HALO GROUNDING WIRE, DASHED LINE INDICATES UNDERGROUND TELEPHONE LINE, DASHED LINE INDICATES UNDERGROUND COAXIAL CABLE, DASHED LINE INDICATES GFI GND GPS GR LINDERGROUND ANTENNA COAX DETAIL REFERENCE DETAIL NO.2 ON SHEET E3

**ABBREVIATIONS** ANTENNA CABLE COVER ASSEMBLY ACCA AMERICAN WIRE GAUGE BTCW BARE TINNED COPPER WIRE

COAX INSULATED GROUND BAR EXTERNAL ELECTRICAL METALLIC TUBING GROUND FAULT CIRCUIT INTERUPTER GROUND GLOBAL POSITIONING SYSTEM GROWTH INTERIOR GROUND RING (HALO)

MASTER ISOLATED GROUND BAR NEW (PROVIDE AND INSTALL (N) UNLESS NOTED OTHERWISE)

PERSONAL COMMUNICATION SERVICE POWER PROTECTION CABINET PRC PVC PRIMARY RADIO CABINET POLYVINYL CHLORIDE CONDUIT RGS RIGID GALVANIZED STEEL RWY RACEWAY SINGLE LINE DIAGRAM

TELEPHONE TYPICAL

WEATHERPROOF EQUIPMENT

1. UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANY AND ARE FOR BID PURPOSES ONLY. A PRE-CONSTRUCTION FIELD MEETING WITH UTILITY PROVIDERS IS REQUIRED BEFORE CONSTRUCTION STARTS.

2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK /
MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND
SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL
ROPES, CABLES, PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED),
TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY
COMPANY FEES AND INCLUDE AL REQUIREMENTS IN SCOPE OF WORK.

3. ALL NEW GROUNDINGS MUST BE DONE PER NEC. CEC & SDG&E REQUIREMENTS.

4. ALL NEW UNDERGROUND PULL BOXES MUST HAVE MIN. 2 FT. OF 1" CRUSHED ROCK AS BASE, AND TOP OF BOX TO BE 1 1/2" ABOVE FINISH GRADE.

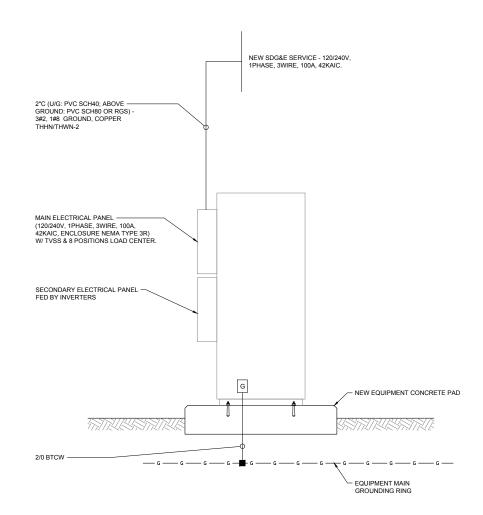
5. ALL NEW WIRE SPLICES IN UNDERGROUND PULL BOXES DONE PER NEC.

6. CMC 35 RU CABINET & BATTERY CABINET & MAIN ELECTRICAL PANEL SHALL BE LABELED &

7. NEW GROUND RODS MAYBE USED FOR SITE GROUNDING IF DESIRED RESISTANCE IS ACHIEVED.

8. CONTRACTOR TO INSTALL UTILITY CONDUIT (LATERAL).

9. ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER



Sempra Energy utility 8315 CENTURY PARK COURT, CP22D SAN DIEGO, CA 92123

NOKIA



5015 SHOREHAM PLACE SUITE 150 SAN DIEGO, CA 92122 www.sacw.com 619.736.3766

PROPRIETARY INFORMATION THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO SEMPRA ENERGY UTILITY ANY USE OR DISCLOSURE OTHER THAN AS IT

# **ISSUE STATUS**

REV.	DATE	DESCRIPTION
0	04/09/19	90% CDs
1	04/10/19	Interior Equipment Added

P679128 "B" HENDERSON CANYON RD

& DI GIORGIO RD, BORREGO SPRINGS, CA 9

SHEET TITLE:

1-LINE DIAGRAM & **PANEL SCHEDULE** 

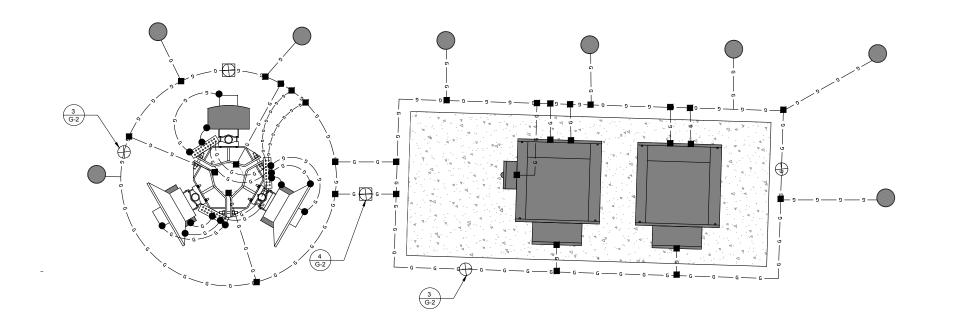
SCALE

NTS

1- LINE DIAGRAM

**SYMBOLS & ABBREVIATIONS** 

SCALE N.T.S.





SEMPRA ENERGY UTILITY STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.

**GROUNDING NOTES** 

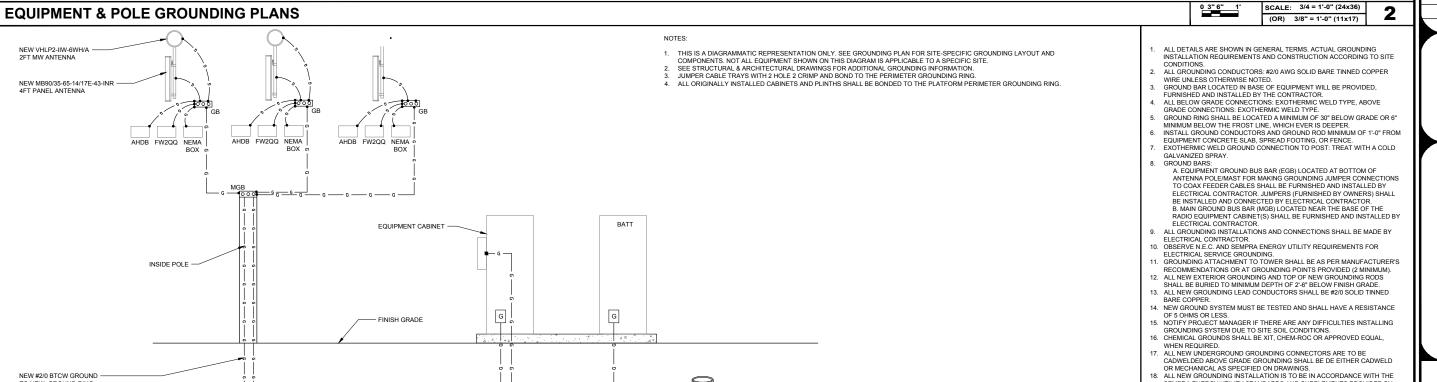
SCALE

N.T.S.

4

SCALE

N.T.S.



G-2 GROUND ROD

NEW #2/0 BTCW GROUND

**GROUNDING SYSTEM SCHEMATIC** 

4 NEW GROUND-TEST WELL

NEW #2 AWG BTCW

EQUIPMENT GROUND RING

TO NEW GROUND RING

Sempra Energy utility 8315 CENTURY PARK COURT, CP22D SAN DIEGO, CA 92123

# NOKIA



PROPRIETARY INFORMATION IFORMATION CONTAINED IN THIS SET OF NGS IS PROPRIETARY & CONFIDENTIAL T

ANY USE OR DISCLOSURE OTHER THAN AS I

# **ISSUE STATUS**

	5,	DEGOTAL FIGURE	_
0	04/09/19	90% CDs	Α
1	04/10/19	Interior Equipment Added	Α

P679128 "B" HENDERSON CANYON RD & DI GIORGIO RD, BORREGO SPRINGS, CA 9

SHEET TITLE: GROUNDING PLAN, SCHEMATIC **DIAGRAM & NOTES** 

**G1** 

