



LSV_BLACK_WIDOW_SC
 SW-NV-LVSTEXP4-VZW
 SW-NV-LVSTRI-00137

UNADDRESSED POLE
 SAHARA AVENUE AND
 PARADISE ROAD
 LAS VEGAS, NEVADA 89109



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CURRENT ISSUE DATE:
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ISSUED FOR:
 PROPOSED WORK

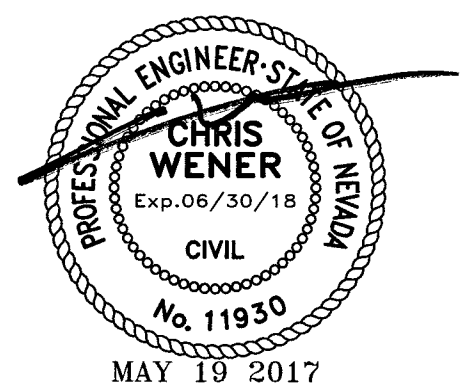
REV.	DATE	DESCRIPTION	BY:
3	05/19/17	BP REVISION	V.H.
2	05/05/17	BP REVISION	V.H.
1	03/20/17	100% PERMITTING	V.H.
0	03/17/17	90% PERMITTING	V.H.

PLANS PREPARED BY:



DGS
 CONSULTING ENGINEERING SERVICES LLC

LICENSURE:



SHEET TITLE:

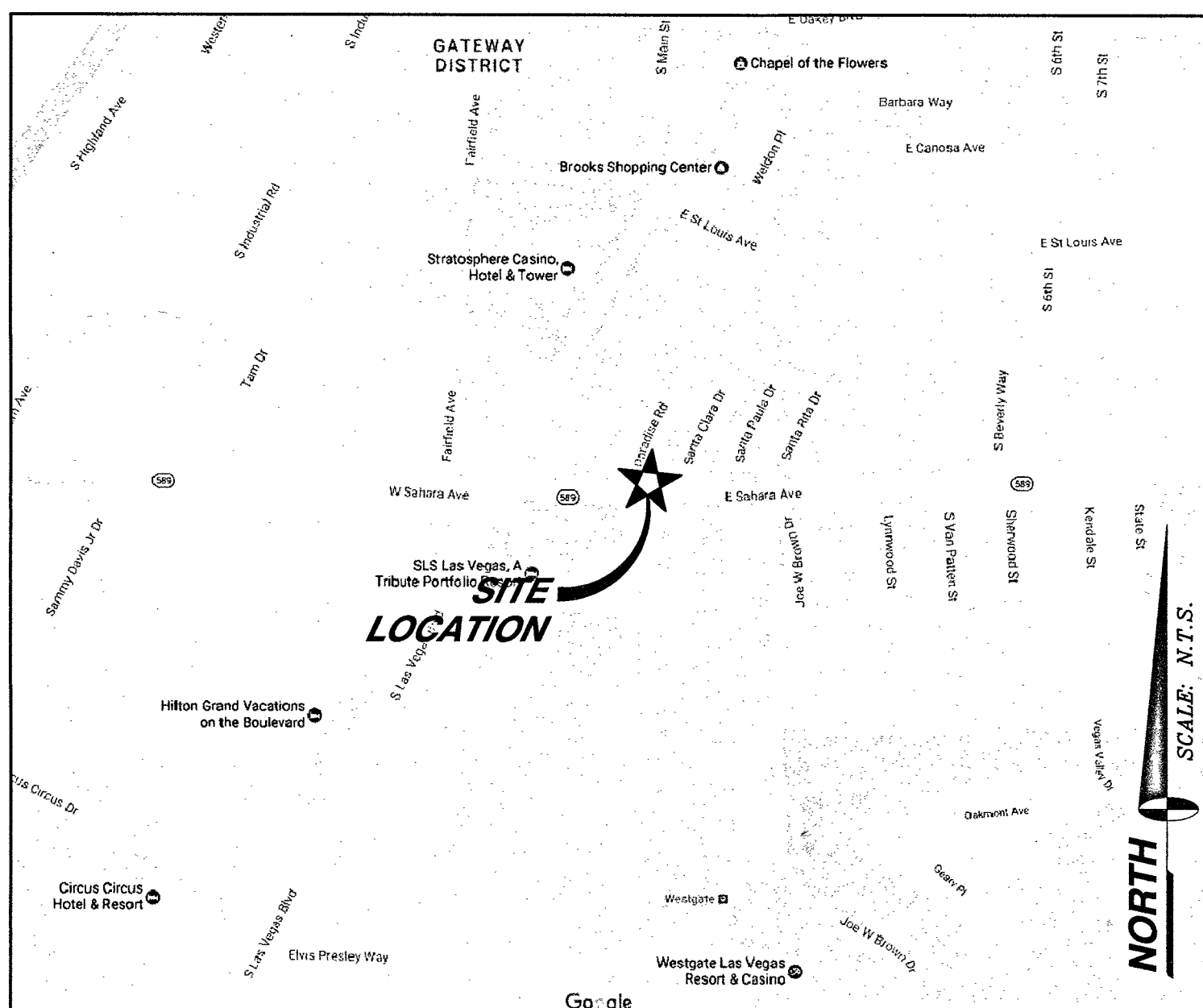
TITLE SHEET

SHEET NUMBER: REVISION:

C1 3

- TOTAL ENCROACHMENT OF UNDERGROUND POWER ROUTE WITHIN CLARK COUNTY RIGHT OF WAY ~475'

TOTAL ENCROACHMENT NOTE

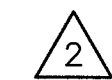


VICINITY MAP

APPLICANT/LESSEE
 EXTENET SYSTEMS, INC.
 2000 CROW CANYON PLACE, SUITE 210
 SAN RAMON, CALIFORNIA 94583
 CONTACT: SERGIU TARTA
 PHONE: (818) 720-5626

PROPERTY INFORMATION

OWNER: N/A
 OCCUPANCY TYPE: U
 CONSTRUCTION TYPE: V-B
 CURRENT ZONING: PUBLIC RIGHT-OF-WAY
 JURISDICTION: CITY OF LAS VEGAS
 APN: 162-03-499-039
 LATITUDE: 36.143806
 LONGITUDE: -115.154051
 HANDICAP REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED.



ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

PROJECT SUMMARY

CIVIL ENGINEER
 SPECTRUM SERVICES, INC.
 4850 WEST OQUENDO ROAD
 LAS VEGAS, NEVADA 89118
 CHRIS WENER
 PHONE: (702) 367-7705
 FAX: (702) 367-8733

ELECTRICAL ENGINEER:
 DGS CONSULTING ENGINEERING SERVICES LLC
 9811 W. CHARLESTON BOULEVARD, SUITE 2539
 LAS VEGAS, NEVADA 89117
 DEREK G. STEFUREAC
 PHONE: (702) 885-1552

PROJECT TEAM

SHEET	DESCRIPTION	REV.
C1	TITLE SHEET	3
C2	ABBREVIATIONS, LEGEND, GENERAL & CONSTRUCTION NOTES	2
C3	SITE PLAN	2
C4	SOUTH AND EAST ELEVATION	2
C5	CONDUIT DIAGRAM	2
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E1	SINGLE LINE DIAGRAM, PANEL SCHEDULE AND NOTES	2

ISSUED FOR:

SHEET INDEX

PERMIT



CITY OF LAS VEGAS
 APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSION OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL

69677

107V 6864 PFB

DATE

6 6 17



SITE PHOTO

1. THE FACILITY IS AN UNOCCUPIED SPECIALIZED MOBILE RADIO FACILITY.
2. PLANS ARE NOT TO BE SCALED AND 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.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
4. THE CONTRACTOR SHALL RECEIVE IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES, OR REGULATION TAKE PRECEDENCE.
6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
7. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT MANAGER AND WITH LANDLORD'S AUTHORIZED REPRESENTATIVE.
8. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
9. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 16 OF THE INTERNATIONAL BUILDING CODE REGARDING EARTHQUAKE PIPING. LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
11. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
12. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
13. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER.
14. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
15. CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
16. CONTRACTOR IS TO SPRAY WITH EPA APPROVED WEED CONTROL PRIOR TO PLACING 4" AGGREGATE BASE GEOTECH FABRIC AND CRUSHED ROCK. TYPICAL INSIDE ENTIRE SITE.

PROJECT GENERAL NOTES

1. ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM 1988.
2. NO SURVEY PERFORMED; SITE MAPPING ONLY.
3. THE ENGINEER SPECTRUM SERVICES, INC. AND REPRESENTATIVES OF THE OWNER, MUST BE NOTIFIED AT LEAST TWO FULL DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT (702) 367-7705.
4. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
5. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS.
6. 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-CONSTRUCTED DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
7. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND 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. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
8. 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. CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
9. 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.
10. THE BUILDING DEPARTMENT ISSUING THE BUILDING PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK OR AS STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
11. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FEATHER INTO EXISTING GRADES AT THE GRADING LIMITS.
12. 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.
13. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 100% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
14. NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
15. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
16. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
17. THE GRADES WITHIN THE FENCED IN AREA ARE TO BE ACHIEVED BY COMPACTING CLEAN FILL TO A DENSITY OF 90% OF STANDARD PROCTOR AND REPAVING WITH ASPHALT CONCRETE TO MATCH EXISTING.
18. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO PAPERS, TRASH, WEEDS, BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
19. DRIVEWAY CONSTRUCTION, GRADING AND DRAINAGE WORK SHALL CONFORM TO NEVADA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR THE ROAD AND BRIDGE CONSTRUCTION", LATEST EDITIONS, AND ALL APPLICABLE PROVISIONS OR LOCAL COUNTY ORDINANCES.
20. 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.
21. SPECIAL INSPECTION:
SPECIAL INSPECTIONS ARE REQUIRED FOR HIGH STRENGTH BOLTING BY THIRD PARTY INSPECTOR.
22. CONCRETE: IF THE CONCRETE MIX ACHIEVES ITS DESIGN STRENGTH PRIOR TO 28 DAY BREAK TEST, IT IS ACCEPTABLE FOR FINAL REPORT.
23. COMPRESSIVE STRENGTH TEST SPECIMENS WITH DIMENSIONS OF 4" x 8" MAY BE USED.

CONSTRUCTION NOTES

extenetSM
SYSTEMS

3030 WARRENVILLE ROAD, SUITE 340
LISLE, ILLINOIS 60532

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PLANS PREPARED BY:

SPECTRUM

SPECTRUM SERVICES, INC.
4850 WEST OQUENDO ROAD
LAS VEGAS, NEVADA 89118
PHONE: (702) 367-7705
FAX: (702) 367-8733

LICENSURE:



SHEET TITLE:

ABBREVIATIONS,
LEGEND, GENERAL &
CONSTRUCTION NOTES

SHEET NUMBER: REVISION:

C2 2

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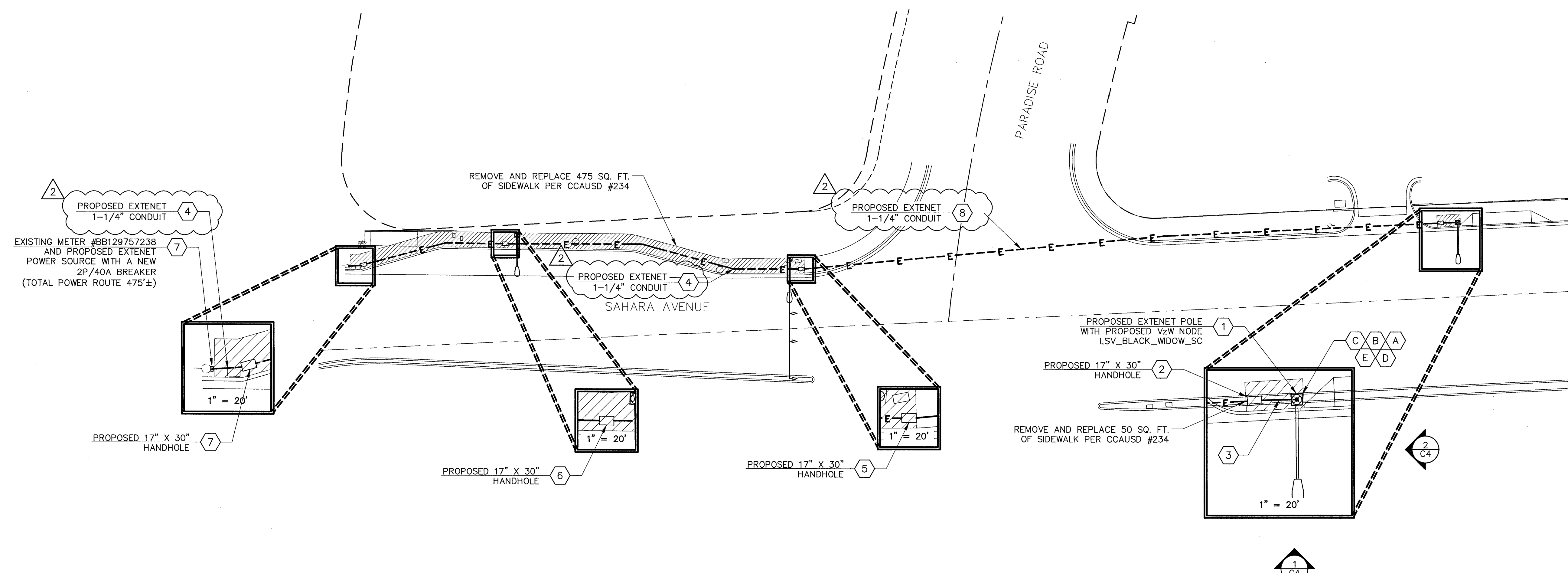
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SITE PLAN

SHEET NUMBER: REVISION:

C3

2

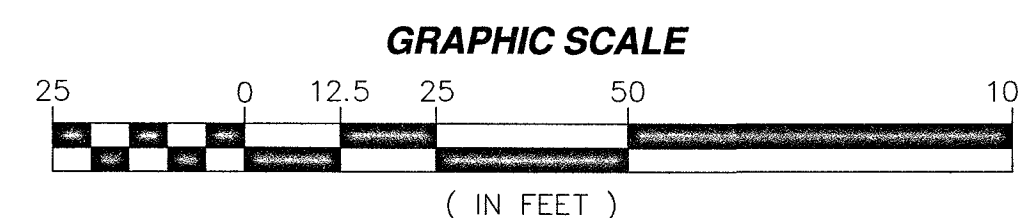


CONSTRUCTION NOTES

- 1 PROPOSED 1-1/4" CONDUIT FOR POWER FROM NEW EXTENET POLE TO PROPOSED 17"x 30" VAULT AND (2) PROPOSED 1-1/4" CONDUITS FOR FIBER FROM EXTENET POLE TO PROPOSED 17"x30" VAULT. SEE DETAIL 1, SHEET C7.
- 2 PROPOSED 17" X 30" EXTENET HANDHOLE. SEE DETAIL 2, SHEET C7 AND DETAIL 1, SHEET C8. REMOVE AND REPLACE SIDEWALK PANELS AS REQUIRED PER CCAUSD #234. SEE DETAIL 5, SHEET C7.
- 3 OPEN TRENCH WITH (3) 1-1/4" CONDUITS. SEE DETAIL 3, SHEET C7. REMOVE AND REPLACE SIDEWALK PANELS AS REQUIRED PER CCAUSD #234. SEE DETAIL 5, SHEET C7.
- 4 OPEN TRENCH WITH (1) 1-1/4" CONDUIT. SEE DETAILS 3 AND 5, SHEET C7.
- 5 PROPOSED 17" X 30" EXTENET HANDHOLE. SEE DETAIL 2, SHEET C7 AND DETAIL 2, SHEET C8. REMOVE AND REPLACE SIDEWALK PANELS AS REQUIRED PER CCAUSD #234. SEE DETAIL 5, SHEET C7.
- 6 PROPOSED 17" X 30" EXTENET HANDHOLE. SEE DETAIL 2, SHEET C7 AND DETAIL 3, SHEET C8. REMOVE AND REPLACE SIDEWALK PANELS AS REQUIRED PER CCAUSD #234. SEE DETAIL 5, SHEET C7.
- 7 PROPOSED 17" X 30" EXTENET HANDHOLE. SEE DETAIL 2, SHEET C7 AND DETAIL 4, SHEET C8. REMOVE AND REPLACE SIDEWALK PANELS AS REQUIRED PER CCAUSD #234. SEE DETAIL 5, SHEET C7.
- 8 N-DIRECTIONAL BORE WITH (1) 1-1/4" CONDUIT. SEE DETAILS 5, SHEET C7 AND DETAIL 5, SHEET C8.
- A PROPOSED MOUNTING BRACKET ON PROPOSED EXTENET POLE. SEE DETAIL 1, SHEET C6.
- B PROPOSED RRH ATTACHED TO MOUNTING BRACKET ON PROPOSED EXTENET POLE. SEE DETAIL 2, SHEET C6.
- C PROPOSED ANTENNAS MOUNTED ON TOP OF PROPOSED EXTENET POLE SEE DETAIL 3 AND 4, SHEET C6.
- D PROPOSED DISTRIBUTION PANEL MOUNTED ON PROPOSED EXTENET POLE. SEE DETAIL 4, SHEET E1.
- E PROPOSED PANEL SCHEDULE FOR PROPOSED DISTRIBUTION PANEL SEE DETAIL 2, SHEET E1

LEGEND

- CENTERLINE
- - - EASEMENT
- - - RIGHT-OF-WAY
- CURB AND CUTTER
- EDGE OF SIDEWALK
- - - E UNDERGROUND POWER ROUTE
- - - F UNDERGROUND POWER ROUTE
- ⊕ FIRE HYDRANT
- ⊙ STREET LIGHT



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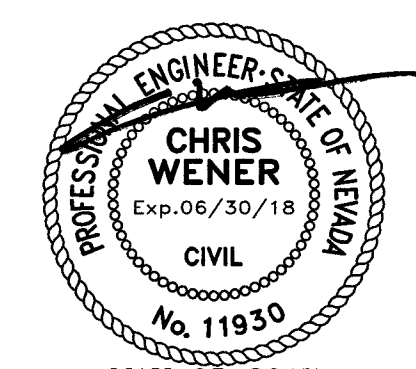
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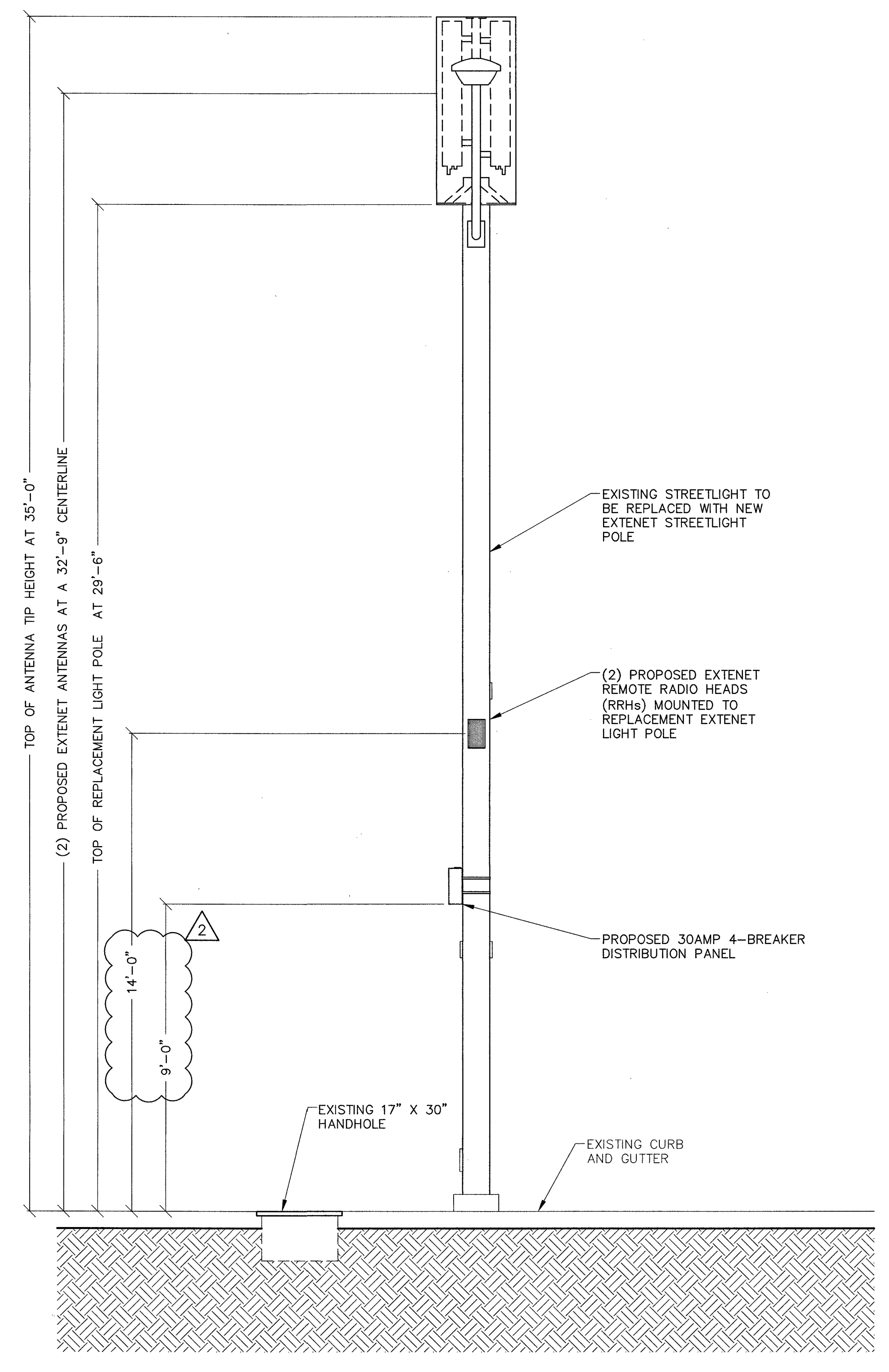
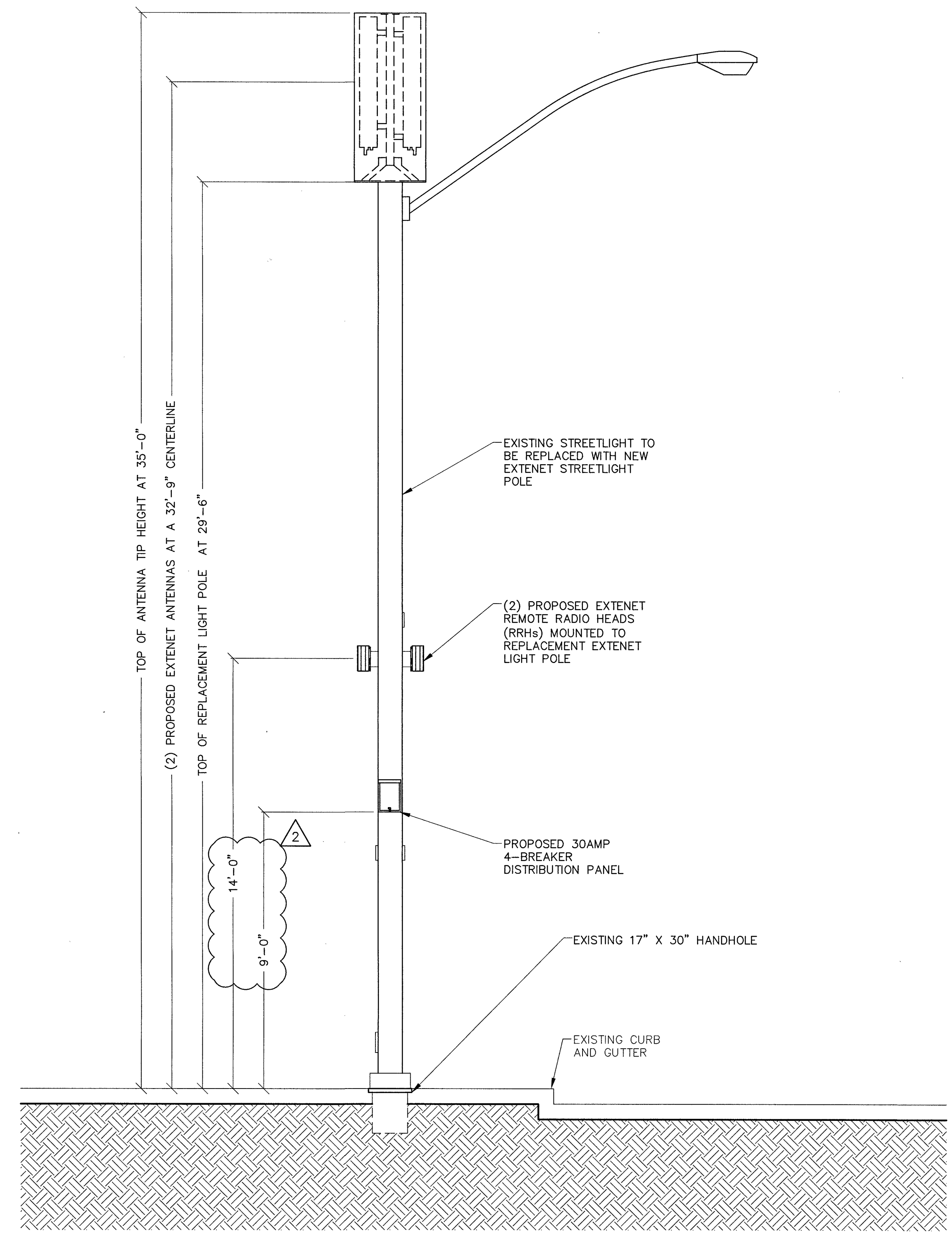
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LICENSURE:

MAY 05 2017

SHEET TITLE:
SOUTH AND EAST ELEVATION

SHEET NUMBER: C4 REVISION: 2



EAST ELEVATION

11" X 17" SCALE 24" X 36" SCALE
1" = 5' 1" = 2'-6"

2 SOUTH ELEVATION

11" X 17" SCALE 24" X 36" SCALE
1" = 5' 1" = 2'-6"

1

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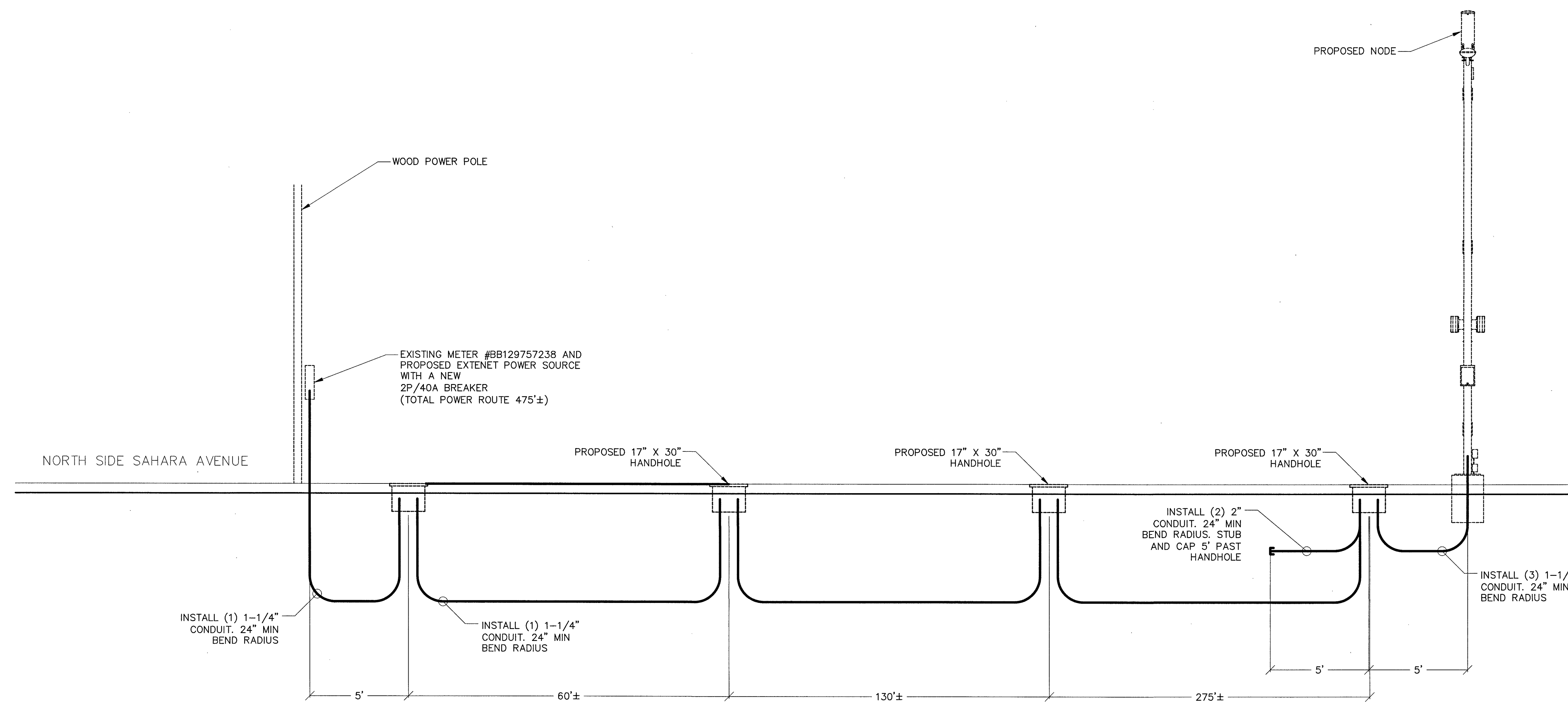


SHEET TITLE:

CONDUIT DIAGRAM

SHEET NUMBER: REVISION:

C5 2



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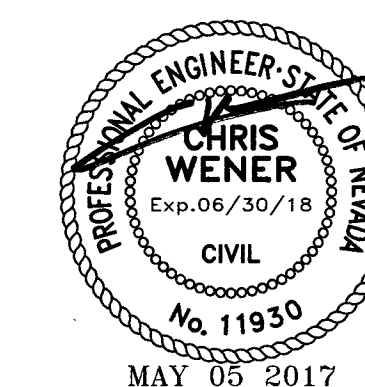
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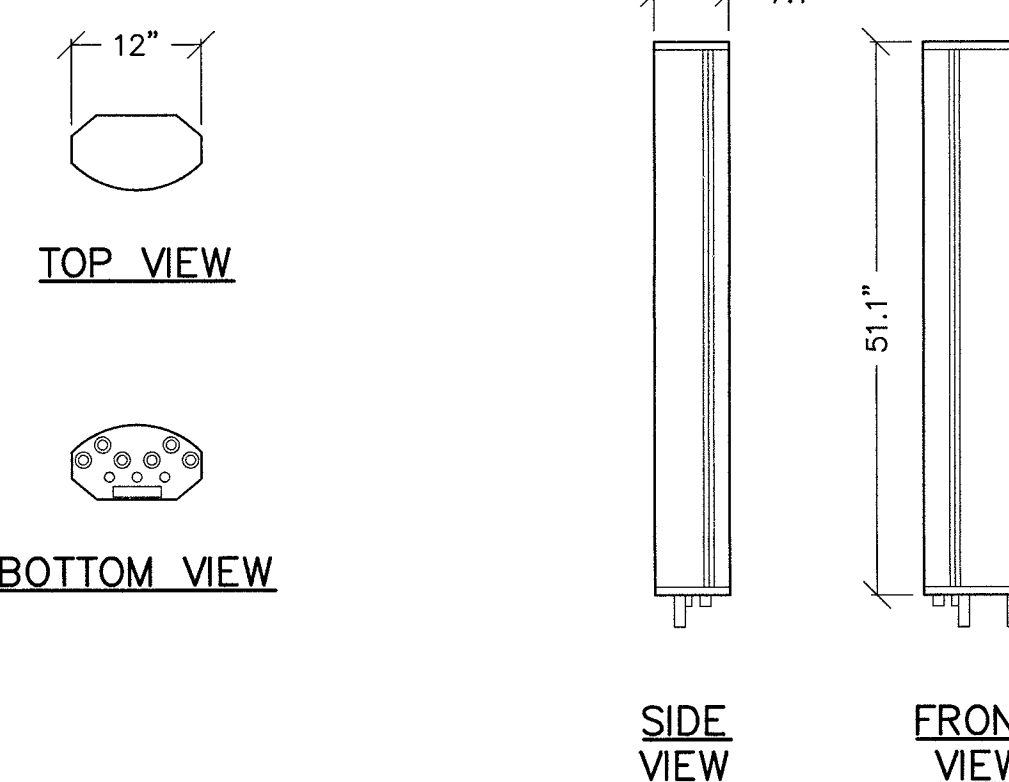
SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: REVISION:

C6 2

AMPHENOL HEX654CU0100x ANTENNA SPECIFICATIONS
DIMENSION, LxWxD 1298x305x180mm (51.1"x12.0"x7.1")
NET WEIGHT 13.5 KG (29.8 LBS)
LIGHTNING PROTECTION DIRECT GROUND



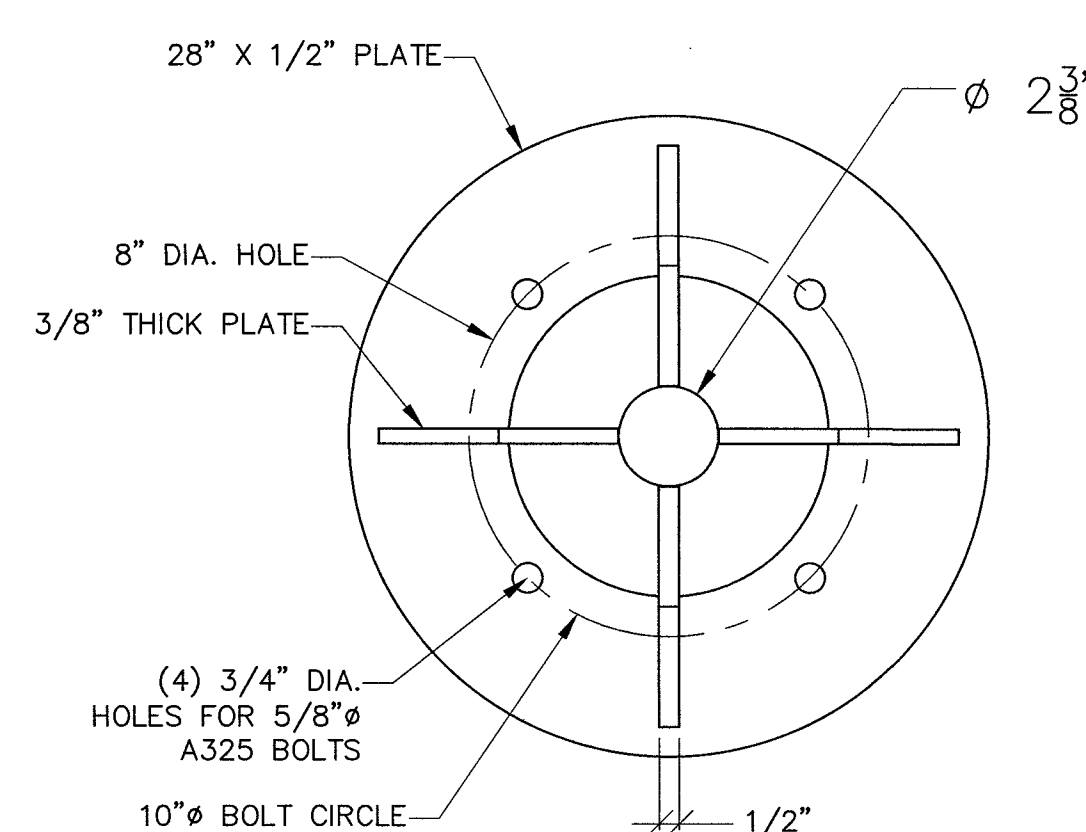
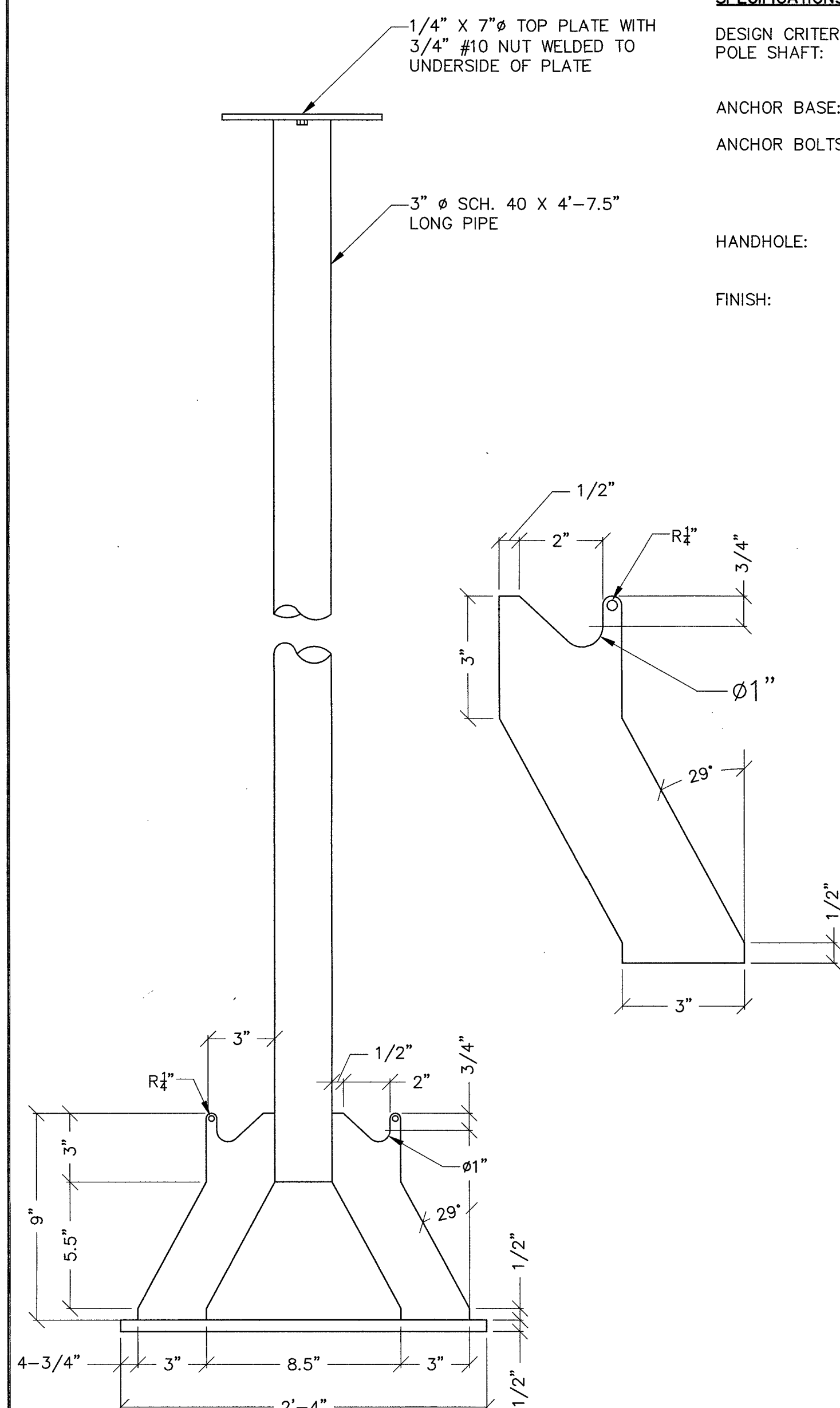
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SCALE: NONE 5 ANTENNA DETAIL

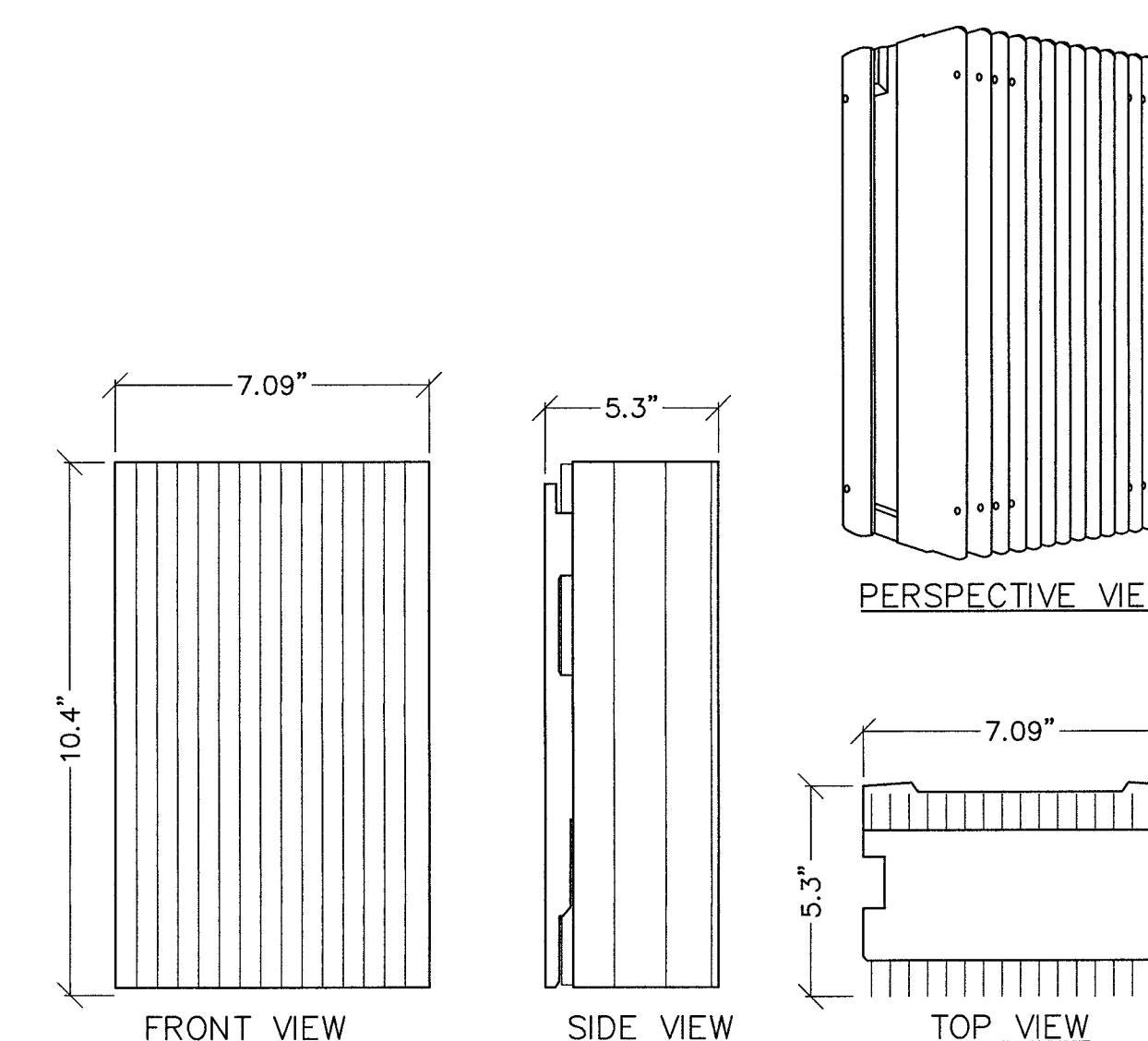
SCALE: NONE 3

SPECIFICATIONS:

DESIGN CRITERIA: POLE SHALL BE DESIGNED FOR 100 MPH STEADY WINDS.
POLE SHAFT: THE POLE SHAFT IS FABRICATED FROM A WELDABLE GRADE HOT-ROLLED CARBON STEEL PIPE AND HAS A MINIMUM YIELD STRENGTH OF 42,000 PSI. TUBING SHALL MEET ASTM-A36.
ANCHOR BASE: THE BASE PLATE IS FABRICATED FROM A STRUCTURAL QUALITY HOT-ROLLED CARBON PLATE THAT MEETS OR EXCEEDS THE REQUIREMENT OF ASTM-A36
ANCHOR BOLTS: ANCHOR BOLTS ARE FABRICATED FROM HOT-ROLLED CARBON STEEL BAR THAT MEET OR EXCEED REQUIREMENTS OF ASTM-A36. EACH BOLT HAS AN "L" BEND ON ONE END AND A MINIMUM 4" THREAD ON THE OTHER, WITH 2 NUTS AND 2 WASHERS (ASSEMBLED). THE ANCHOR BOLT IS HOT-DIPPED GALVANIZED PER ASTM-A153.
HANDHOLE: THE HANDHOLE CONSIST OF A 3" X 5" OVAL OPENING WITH 16 GAUGE COVER AND 2EA. 1/4" SCREWS. DOUBLE GROUNDING LUGS ARE INSTALLED INSIDE THE POLE SHAFT OPPOSITE THE HANDHOLE OPENING.
FINISH: THE POLE IS SAND BLASTED TO A NEAR WHITE FINISH AND TREATED WITH AN IRON PHOSPHATE SOLUTION. A HIGH QUALITY POLYESTER POWDER IS THEN ELECTROSTATICALLY APPLIED AND CURED TO A MINIMUM 2.5 MIL. THICKNESS

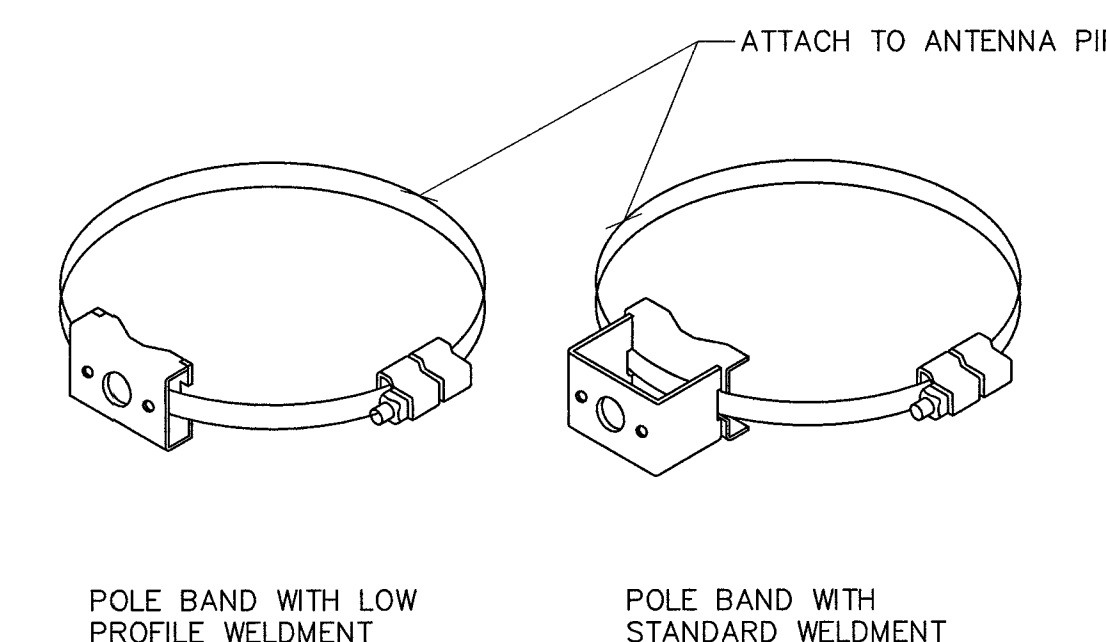


NOKIA 9768 B66 (AWS1-3) 2x5W
COLOR: LIGHT GRAY
DIMENSIONS, H x W x D: 10.4" x 7.09" x 5.3"
VOLUME (WITHOUT ANTENNAS): <6.5L
WEIGHT, APPROXIMATELY (WITHOUT ANTENNAS): 15 LBS



SCALE: NONE 2 REMOTE RADIO HEAD (RRH)

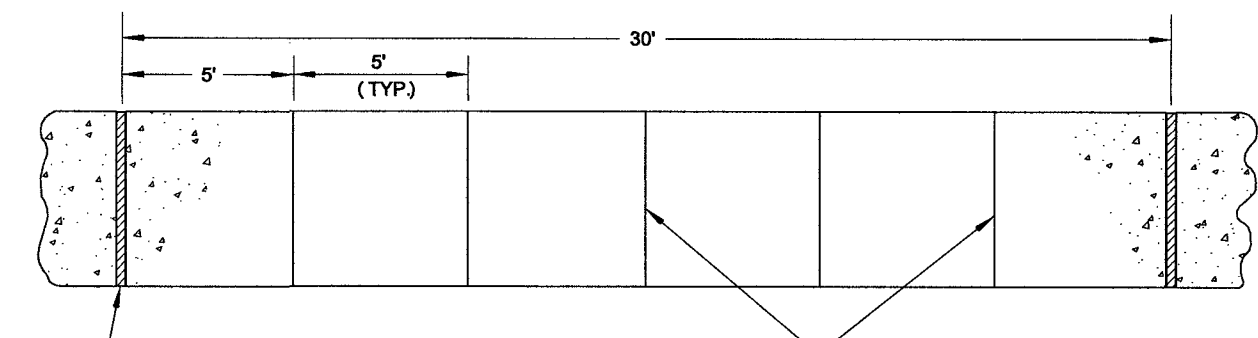
SCALE: NONE 2



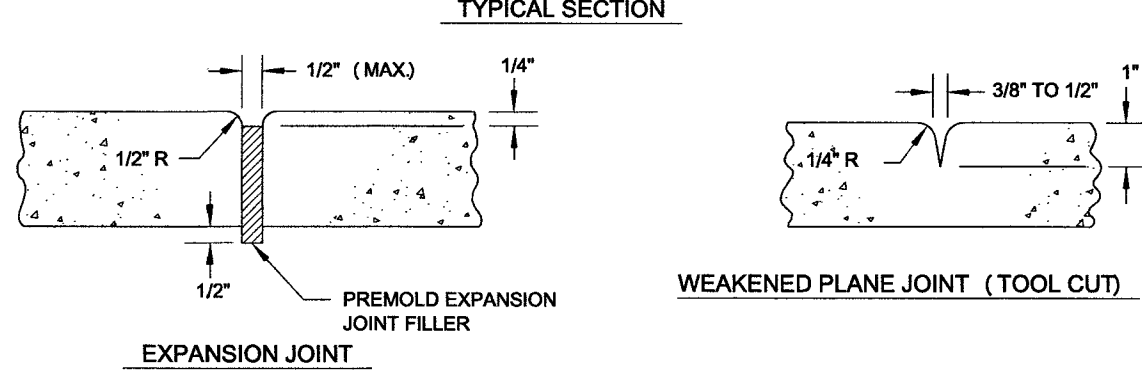
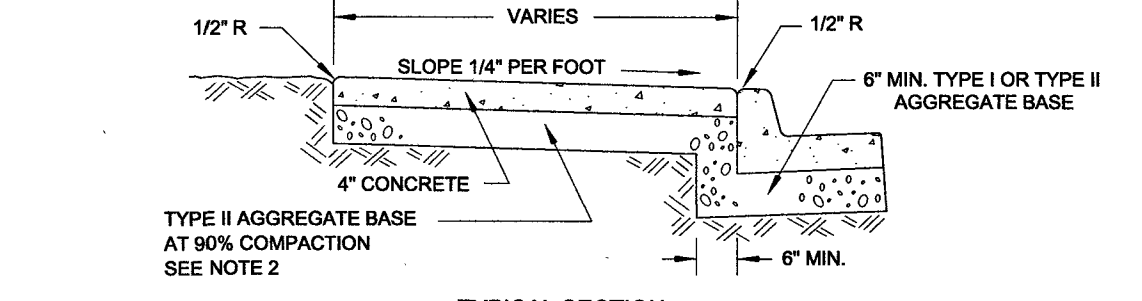
SCALE: NONE 4 CEM-TEC APS ANTENNA MAST

SCALE: NONE 4 MOUNTING BANDS

SCALE: NONE 1



1/2" EXPANSION JOINT AT 30' INTERVALS, AT COLD JOINTS AND AT BEGINNING AND END OF RETURN. EXPANSION JOINTS TO MATCH LOCATION MATCH LOCATION OF CURB AND GUTTER EXPANSION JOINT.

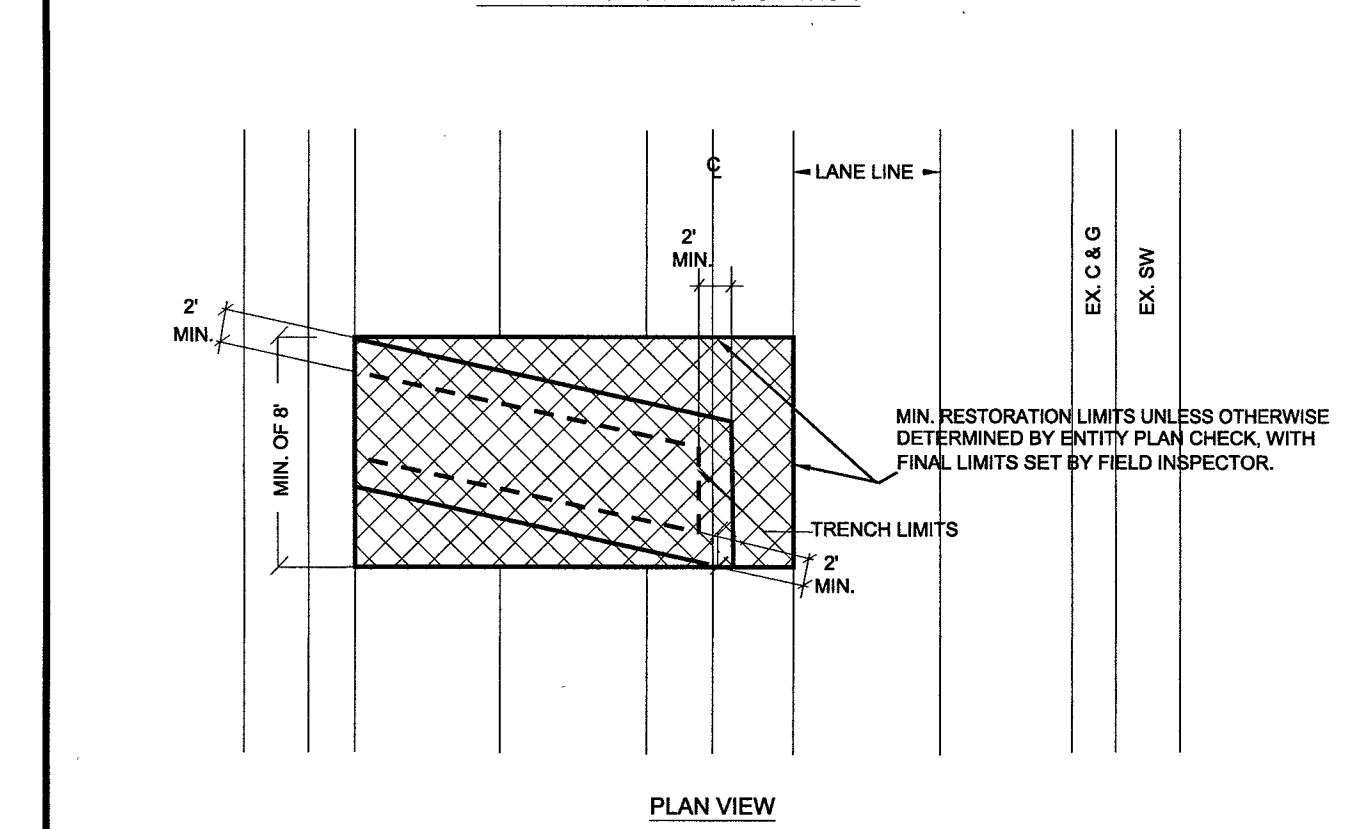
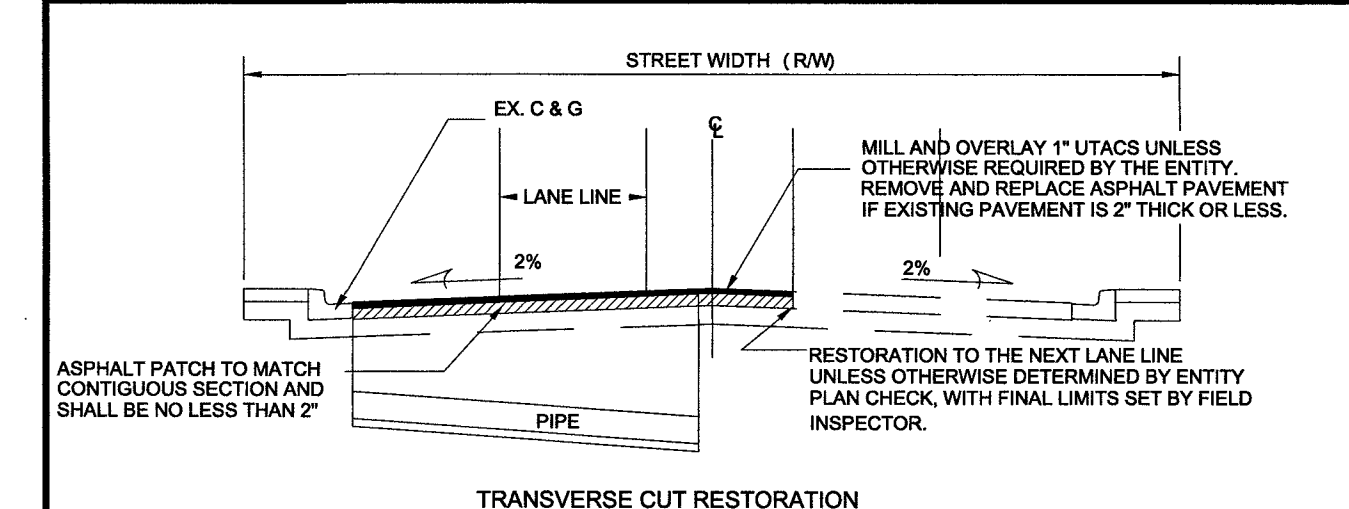


- NOTES:
- ON ALL CURB RETURNS A 1/2" EXPANSION JOINT SHALL BE CONSTRUCTED BETWEEN THE BACK OF CURB AND THE SIDEWALK FOR THE ENTIRE LENGTH OF THE RETURN.
 - THE TYPE II AGGREGATE BASE THICKNESS IS SHOWN ON THE TYPICAL SECTION DRAWINGS 202 - 207.
 - LONGITUDINAL WEAKENED PLANE JOINT REQUIRED AT MIDPOINT OF SIDEWALK 10' OR WIDER.

AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
302	AGGREGATE BASE					
501	CONCRETE					
502	CONCRETE STRUCTURES					
707	JOINT MATERIAL					
DATE	01-01-17	DWG. NO.	234			

CCAUSD #234 SIDEWALK RESTORATION

SCALE: NONE 5



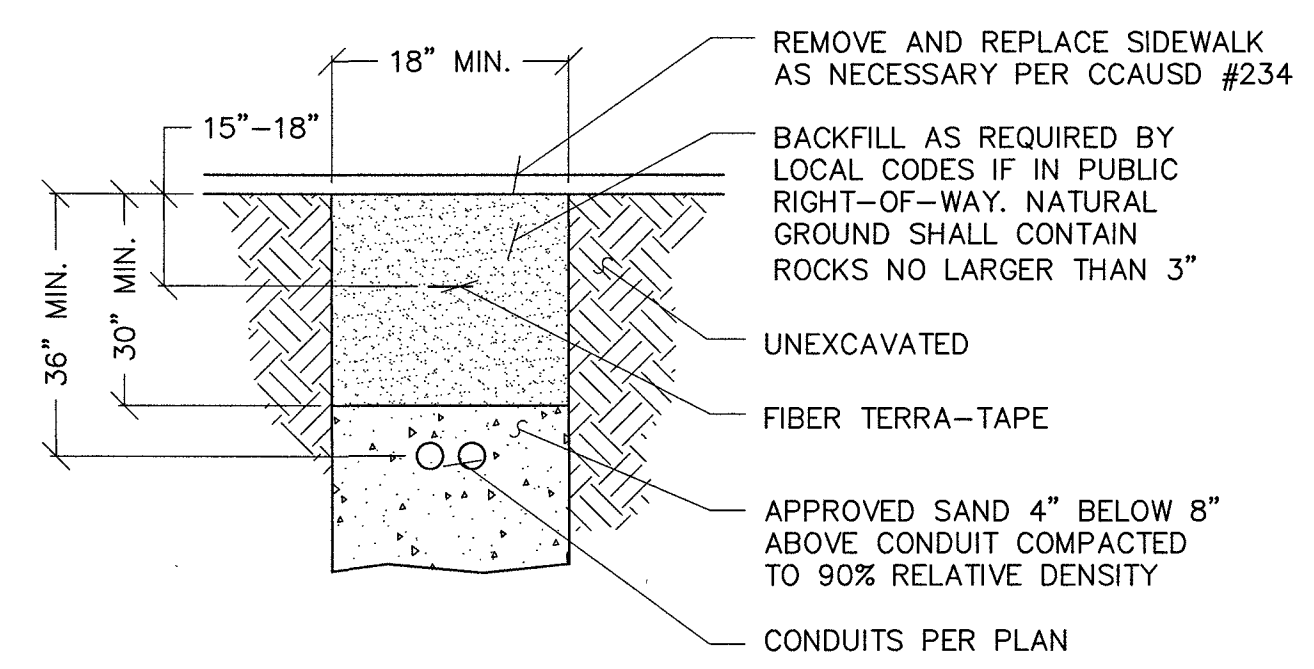
- NOTES:
- IF CUT IS WITHIN A LANE, PAVEMENT RESTORATION MUST EXTEND TO THE NEXT LANE LINE.
 - THE ENTITY'S REQUIREMENTS TAKE PRECEDENCE OVER ANY MINIMUM REQUIREMENTS SHOWN HEREON.

AGENCY APPROVED	B	C	H	L	M	N
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
302	AGGREGATE BASE					
401	BITUMINOUS PAVEMENT					
406	PRIME COAT					
407	FOG SEAL					
501	CONCRETE					
DATE	6-12-08	USD DWG. NO.	500.5			

USD NO. 500.5 PAVEMENT RESTORATION

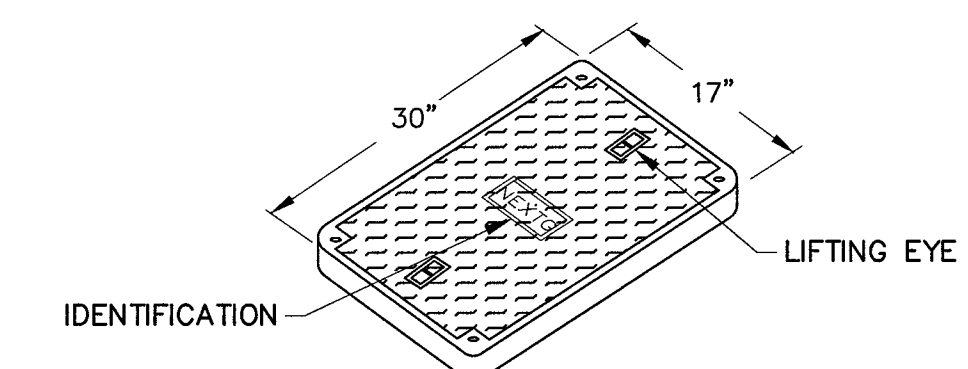
SCALE: NONE 4

NOTE: TYPICAL INSTALLATION. UTILITY DESIGN TAKES PRECEDENCE.

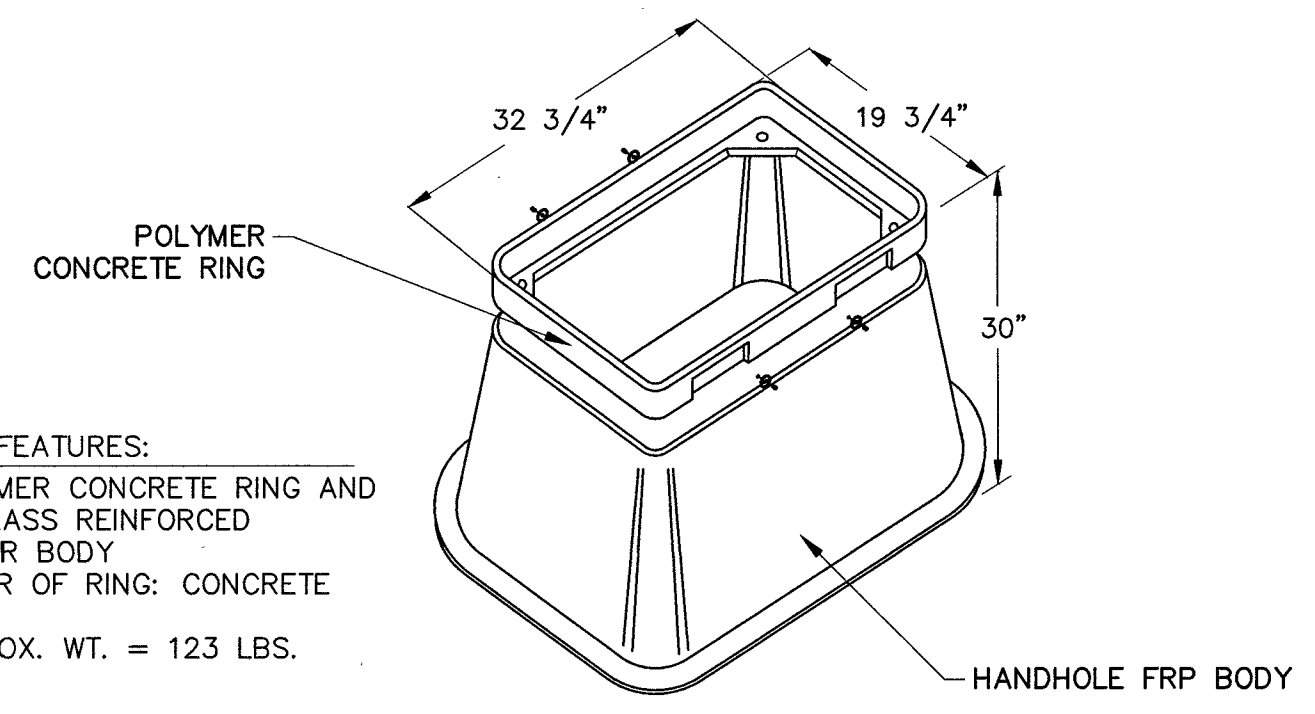


POWER TRENCHING

SCALE: NONE 3



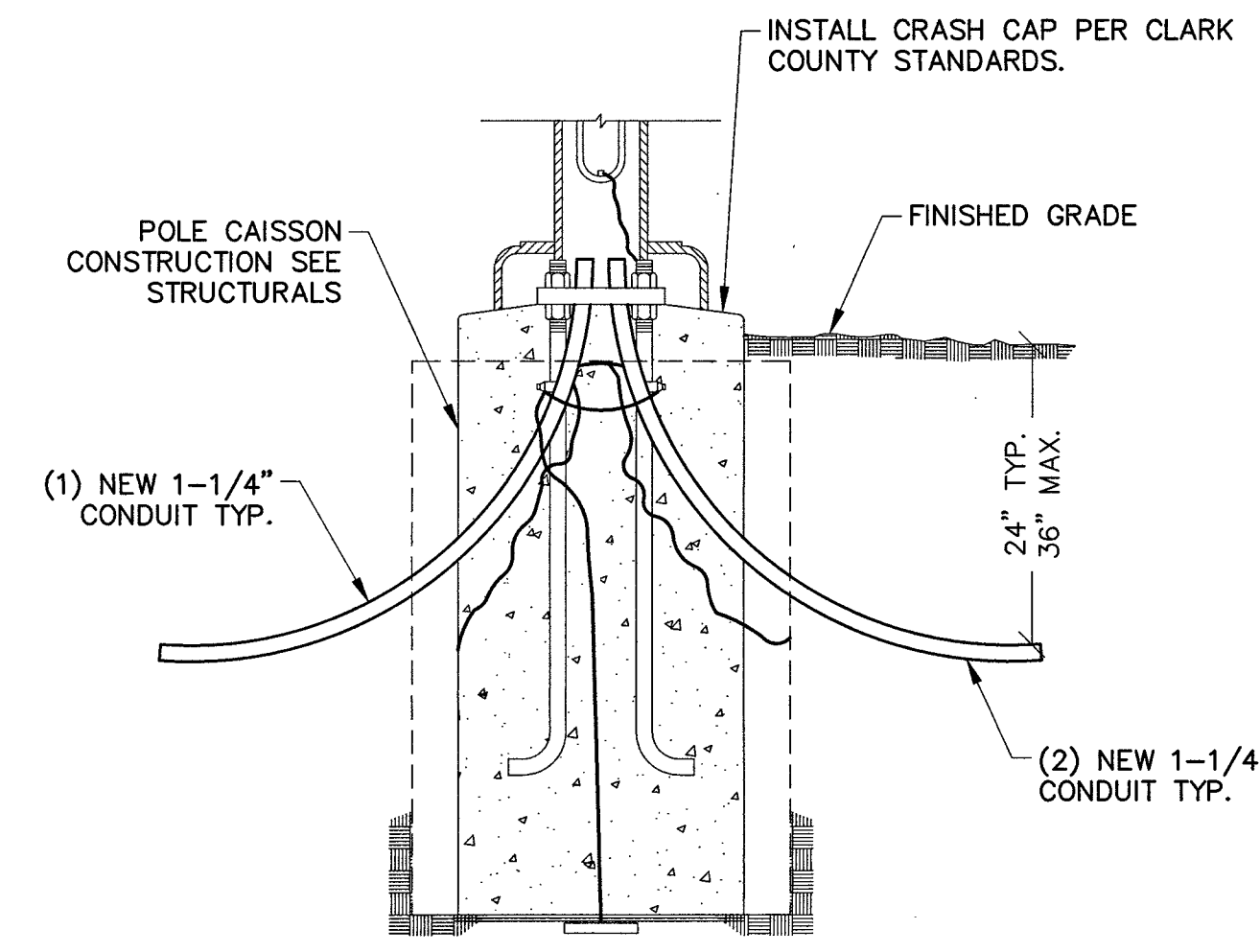
- COVER FEATURES:
- * PW - 10,400 LBS. WHEEL LOAD ON 10" X 10" PLATE.
 - * APPROX. WT. = 72 LBS.
 - * POLYMER CONCRETE
 - * ONE PIECE COVER
 - * FOUR BOLT DOWN
 - * COLOR: CONCRETE GRAY
 - * NON - SKID SURFACE



- VAULT FEATURES:
- * POLYMER CONCRETE RING AND FIBERGLASS REINFORCED POLYMER BODY
 - * COLOR OF RING: CONCRETE GRAY
 - * APPROX. WT. = 123 LBS.

17" X 30" HANDHOLE

SCALE: NONE 2



POLE POWER ROUTING

SCALE: NONE 1



PROJECT INFORMATION:
LSV_BLACK_WIDOW_SC
SW-NV-LVSTEXP4-VZW
SW-NV-LVSTRI-00137

UNADDRESSED POLE
SAHARA AVENUE AND
PARADISE ROAD
LAS VEGAS, NEVADA 89109

CURRENT ISSUE DATE:
05/05/17

ISSUED FOR:
PROPOSED WORK

REV.: DATE: DESCRIPTION: BY:

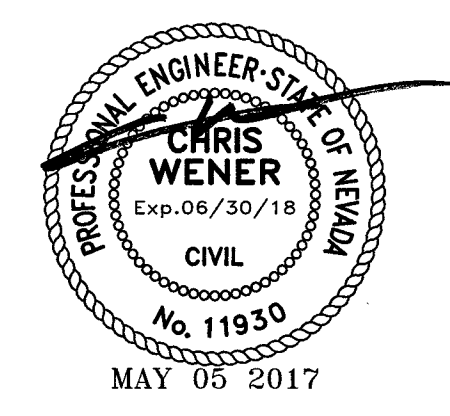
2	05/05/17	BP REVISION	V.H.
1	03/20/17	100% PERMITTING	V.H.
0	03/17/17	90% PERMITTING	V.H.

PLANS PREPARED BY:



SPECTRUM SERVICES, INC.
4850 WEST OQUENDO ROAD
LAS VEGAS, NEVADA 89118
PHONE: (702) 367-7705
FAX: (702) 367-8733

LICENSURE:



SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: REVISION:

C7 2

PROJECT INFORMATION:
LSV_BLACK_WIDOW_SC
SW-NV-LVSTEXP4-VZ
SW-NV-LVSTRI-00137

UNADDRESSED POLE
SAHARA AVENUE AND
PARADISE ROAD
LAS VEGAS, NEVADA 89109

CURRENT ISSUE DATE:
05/19/17

ISSUED FOR:
PROPOSED WORK

REV.: DATE: DESCRIPTION: BY:

REV.	DATE	DESCRIPTION	BY
3	05/19/17	BP REVISION	V.H.
2	05/05/17	BP REVISION	V.H.
1	03/20/17	100% PERMITTING	V.H.
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LICENSURE:

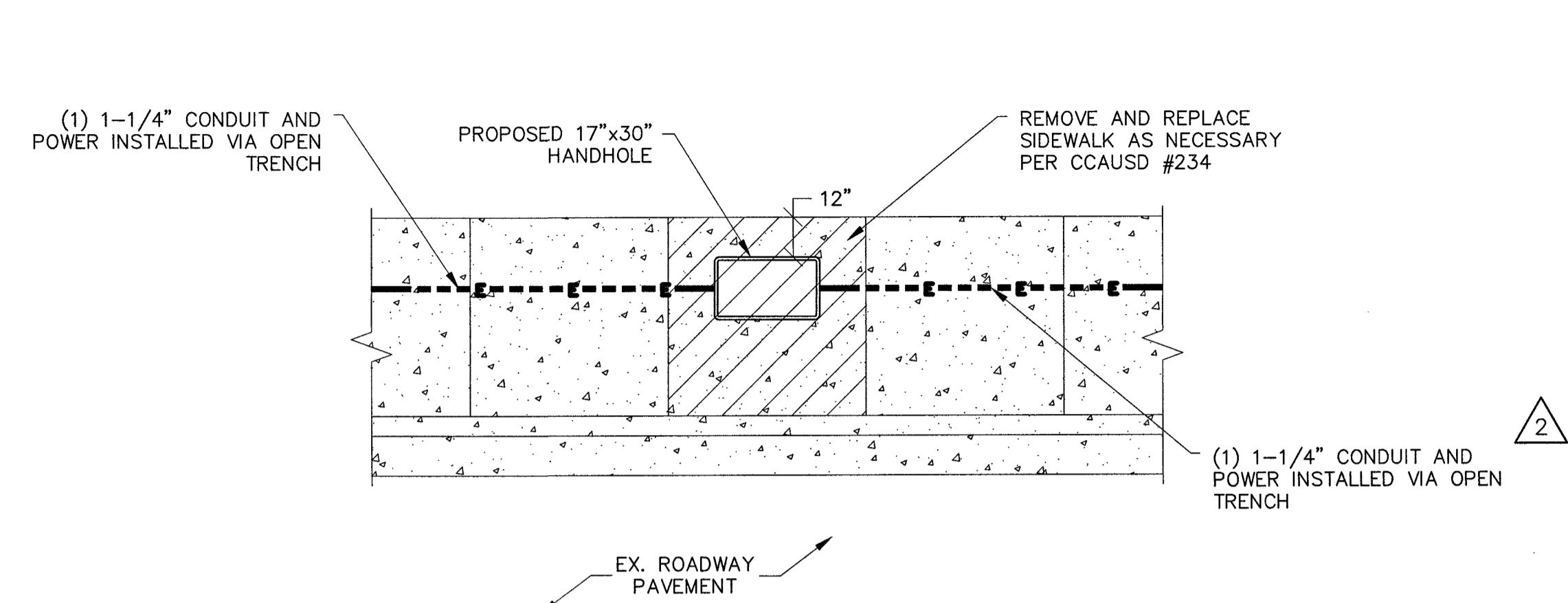


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CONSTRUCTION DETAILS

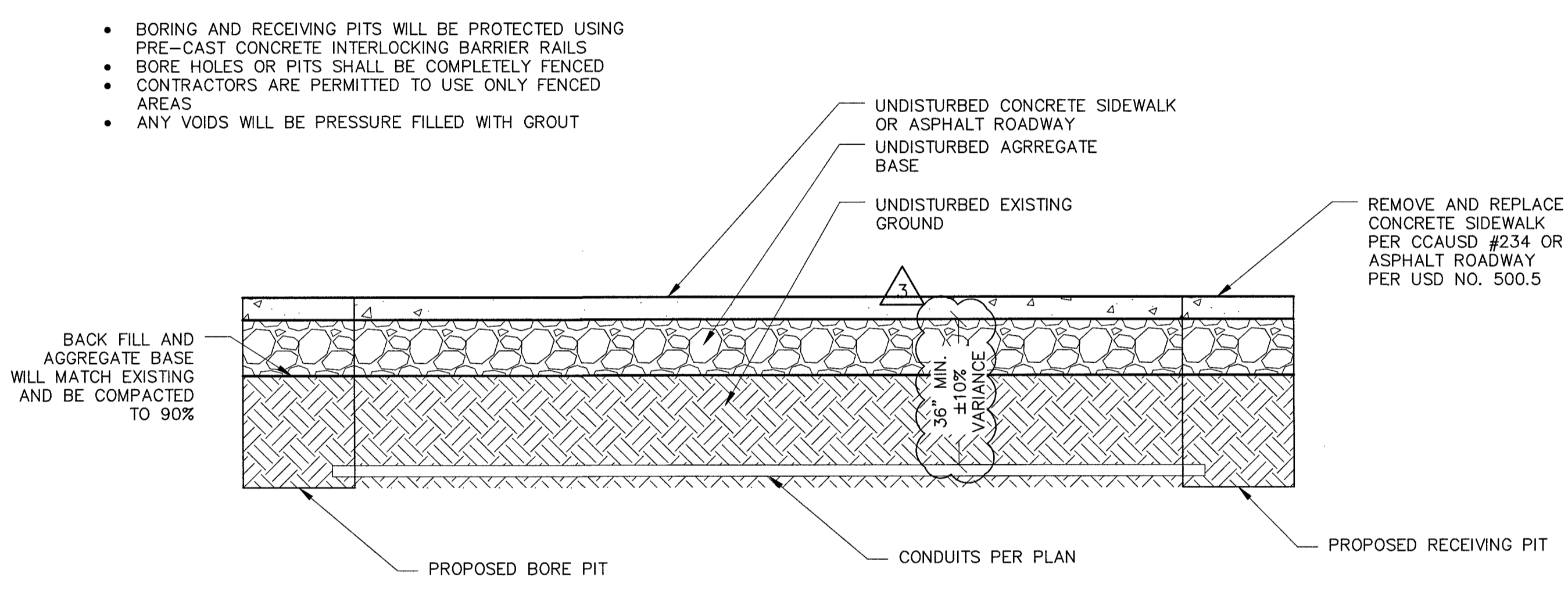
SHEET NUMBER: REVISION:

C8 3



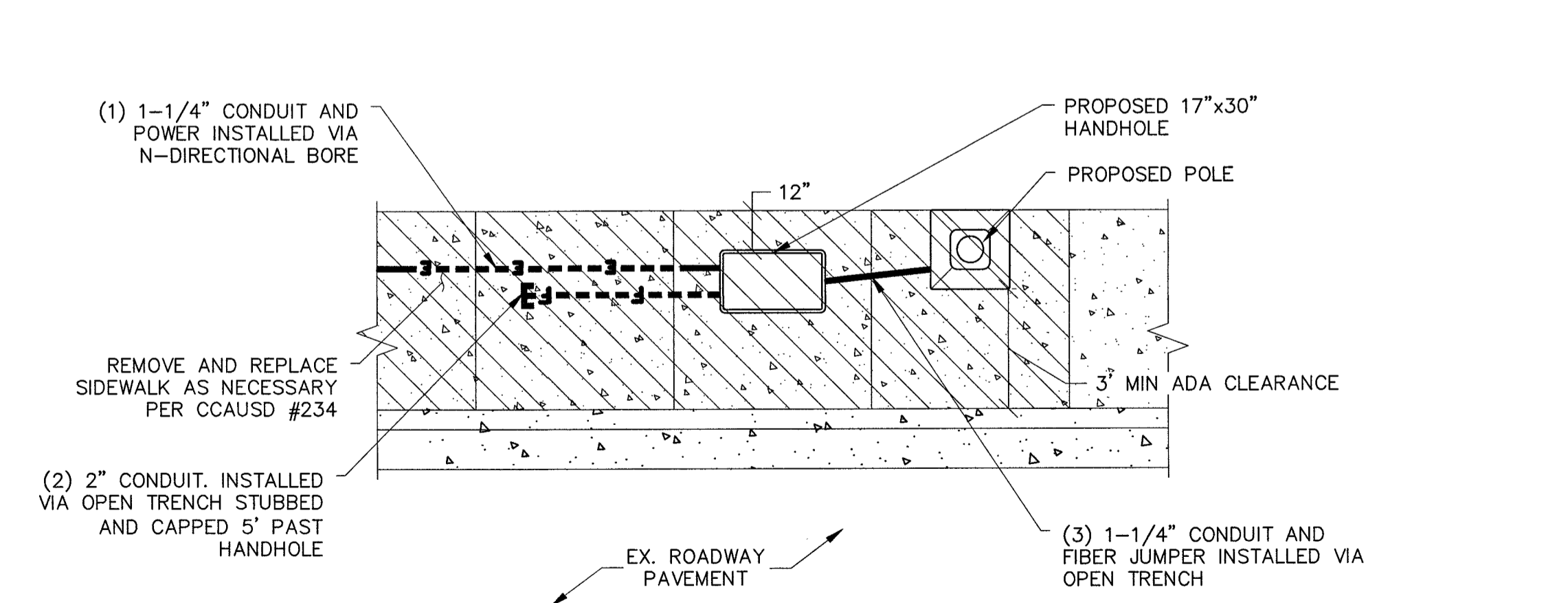
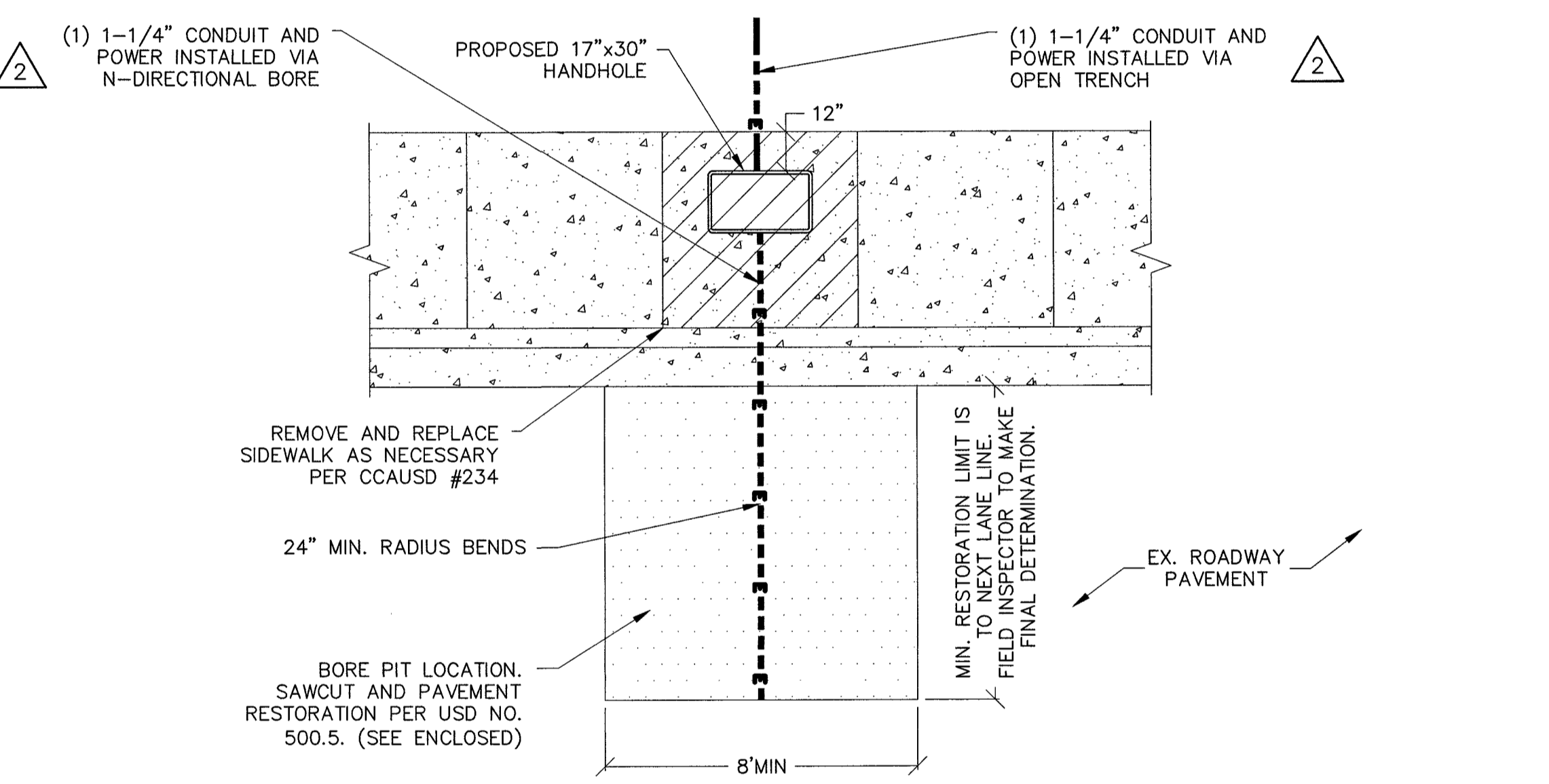
SCALE: NONE 6 POWER INSTALLATION UNDER SIDEWALK AND STREET SCALE: NONE 3

NOT USED



SCALE: NONE 5 POWER INSTALLATION UNDER SIDEWALK AND STREET SCALE: NONE 2

POWER BORING



SCALE: NONE 4 POWER INSTALLATION UNDER SIDEWALK AT METER SCALE: NONE 1

POWER AND FIBER INSTALLATION UNDER SIDEWALK AT PROPOSED POLE

PROJECT INFORMATION:
LSV_BLACK_WIDOW_SC
SW-NV-LVSTEXP4-VZW
SW-NV-LVSTRI-00137

UNADDRESSED POLE
SAHARA AVENUE AND
PARADISE ROAD
LAS VEGAS, NEVADA 89109

CURRENT ISSUE DATE:

05/05/17

ISSUED FOR:

PROPOSED WORK

REV.: DATE: DESCRIPTION: BY:

REV.	DATE	DESCRIPTION	BY
2	05/05/17	BP REVISION	V.H.
1	03/20/17	100% PERMITTING	V.H.
0	03/17/17	90% PERMITTING	V.H.

PLANS PREPARED BY:



DGS
CONSULTING ENGINEERING SERVICES LLC

LICENSURE:



SHEET TITLE:

SINGLE LINE DIAGRAM,
PANEL SCHEDULE AND
NOTES

SHEET NUMBER: REVISION:

E1 **2**

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS AND CARRIER GROUNDING STANDARD, NSTD46 LATEST REVISION.
- ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND RING TO GROUND BAR CONNECTIONS SHALL BE CADWELDED QTY. (2) #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND BAR TO EQUIPMENT AND CABLES SHALL BE #2 AWG BTCW W/ DOUBLE LUG CONNECTIONS.
- GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
- GROUND BAR LOCATED BELOW WAVEGUIDE ENTRY PORT. CABLES SHALL BE #2 AWG BTCW/DOUBLE LUG CONNECTIONS. TWO PATHS TO GROUND RING.
- ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
- EXTERIOR GROUNDING CONDUCTORS: BURIED TO A MINIMUM DEPTH OF 1'-6" BELOW FINISHED GRADE TO ALLOW FOR FUTURE CONSTRUCTION.
- INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
- EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
- GROUND BARS:
EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- ALL BOLTED TORQUE CONNECTORS SHALL BE LONG-BARRELED TYPES AND HAVE TWO HOLES FOR CONNECTION TO SURFACE AND NON-OXIDIZING AGENT APPLIED TO INHIBIT CORROSION.

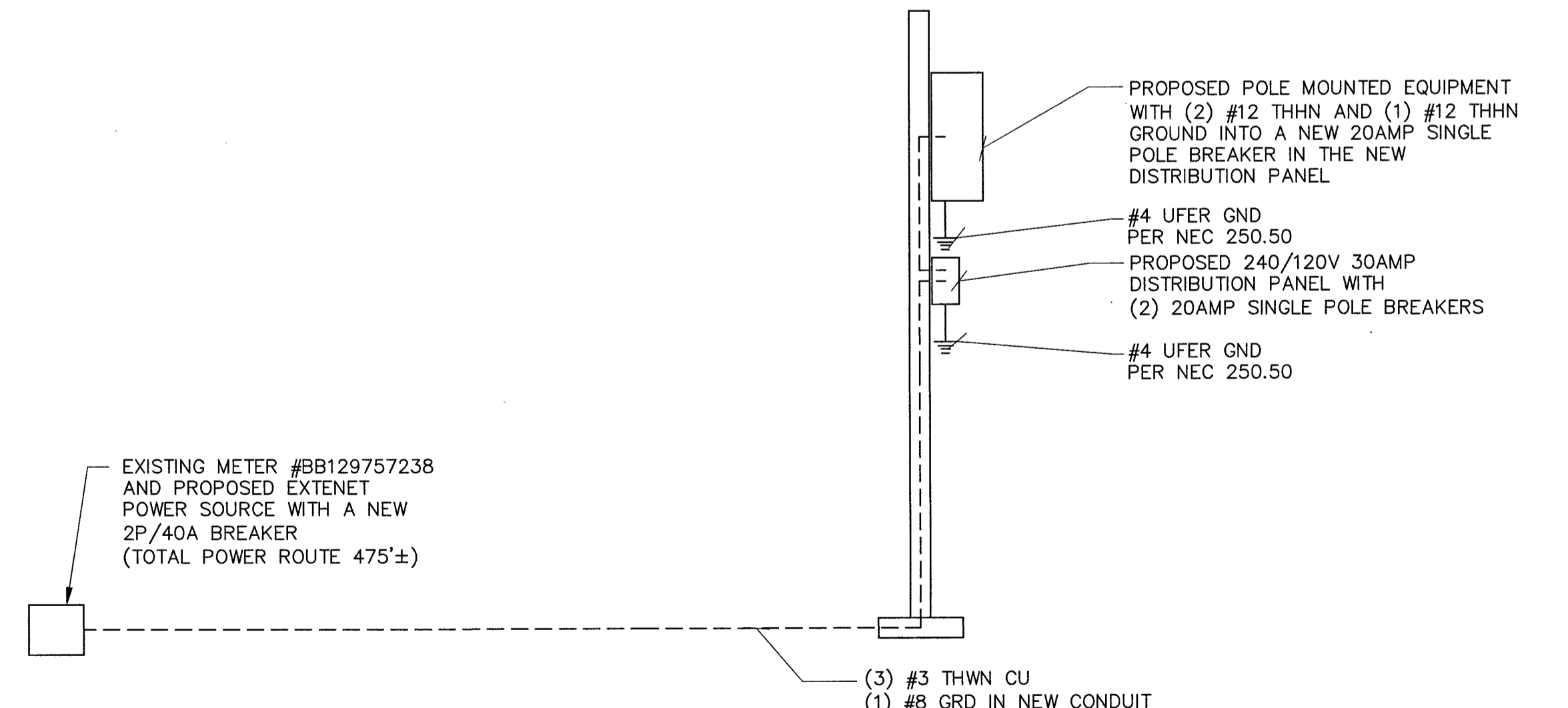
SCALE:
NONE **3**

GROUNDING NOTES

Panel: A		PANEL VOLTAGE: 120/240 1Ø, 3W	CIRCUIT CODE: N: NON-CONTINUOUS	M: MOTOR							
SLD: X	Plan: X	BUS: 60 AMPS	C: CONTINUOUS	P: PANEL							
LOCATION: X		MAIN: C.B. 30 AMPS	R: DEMANDABLE RECEP	E: ELEV: (0)							
		AIC RATING: 10,000 AMPS	MOUNTING: SURFACE	K: KITCHEN: (0)							
CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION	CONNECTED VA	LOAD DESIGNATION	TRIP	POLE	CODE	CKT NO	
1	N	20	1	Proposed Breaker	600	Proposed Breaker	20	1	N	2	
3	N	20	1	SPARE		SPARE	20	1	N	4	
PANEL NOTES:					PHASE TOTALS	ØA: 1,200	ØB: 0	PANEL(S) TOTAL CONNECTED VA: 1,200			
								PANEL(S) DEMAND KVA: 1.2			
								PANEL(S) DEMAND AMPS: 5.0			
								LARGEST Ø DEMAND AMPS: 10.0			

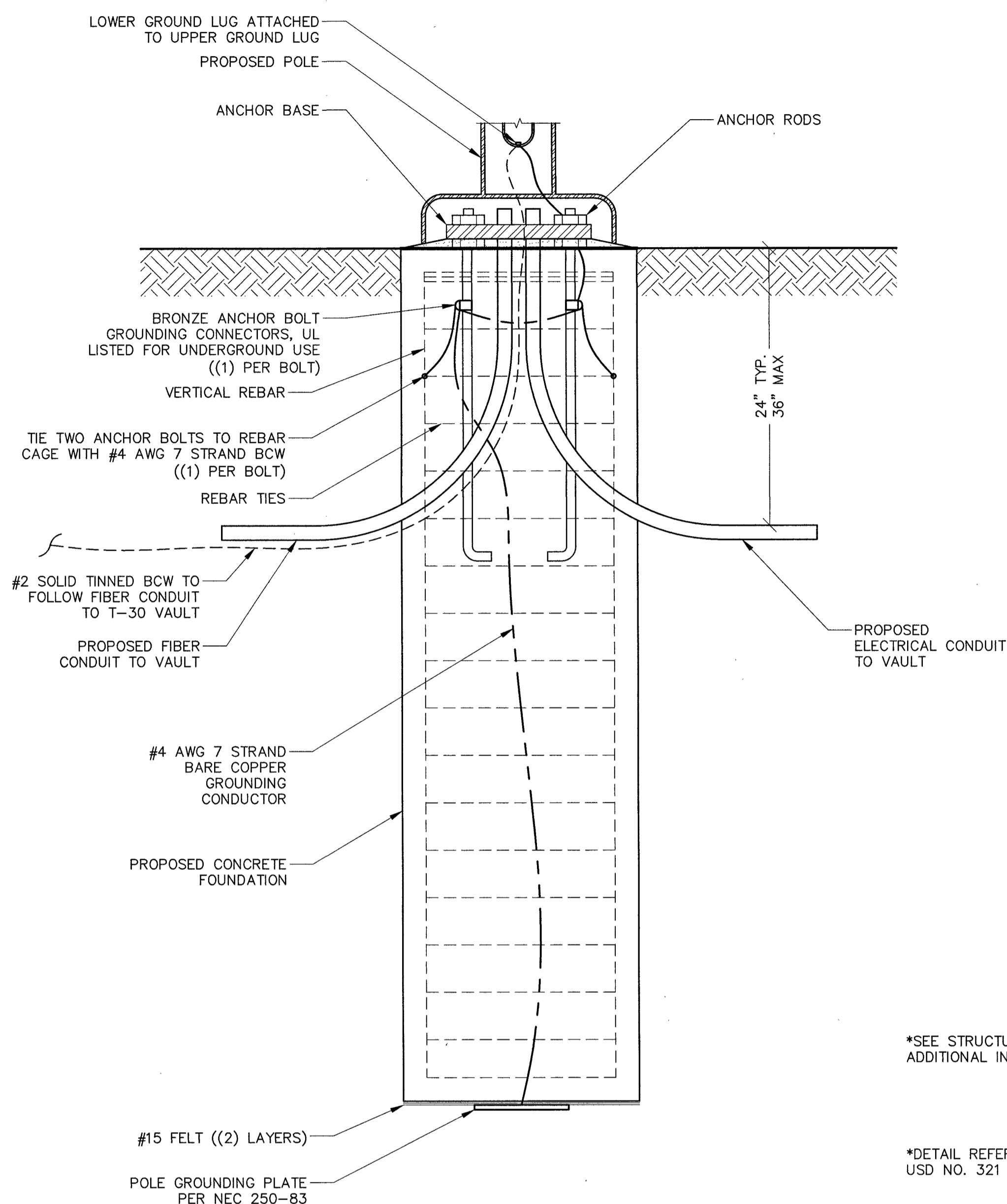
SCALE:
NONE **2**

PANEL SCHEDULE



SCALE:
NONE **1**

SINGLE LINE DIAGRAM



*SEE STRUCTURALS FOR ADDITIONAL INFORMATION

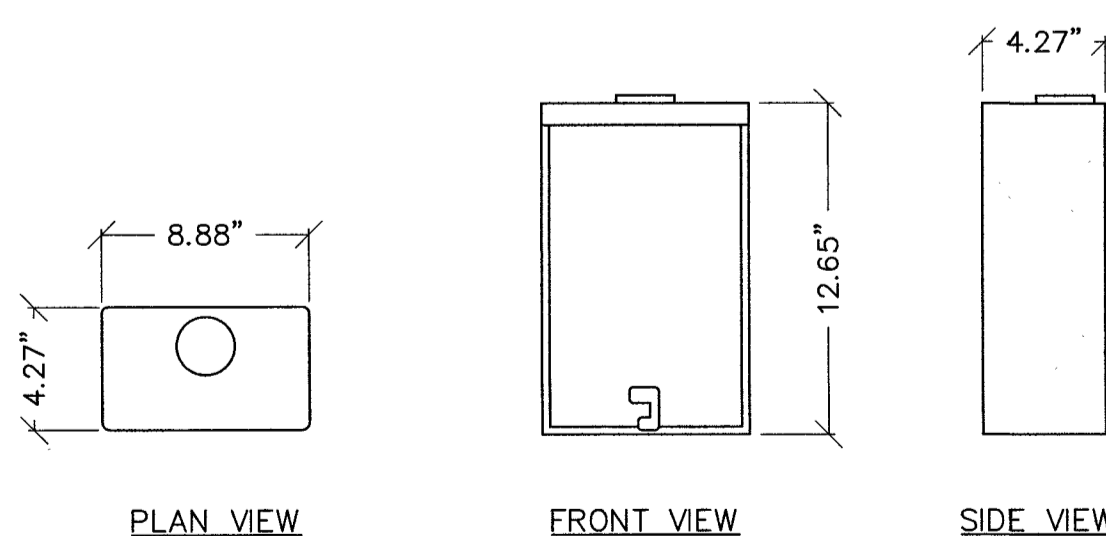
*DETAIL REFERENCES USD NO. 321 AND 321.1

SCALE:
NONE **5**

STREETLIGHT GROUNDING

SQUARE D Q0612L100RBCP SPECIFICATIONS

NUMBER OF PHASES: 1
NUMBER OF SPACES: 4
MAXIMUM AMPERAGE: 100 AMPS
VOLTAGE: 120/240 VOLTS



SCALE:
NONE **4**

DISTRIBUTION PANEL