



LSV_BONES_SC
SW-NV-LVSTEXP4-VZW
SW-NV-LVSTRI-00136

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



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CURRENT ISSUE DATE:
05/04/17

ISSUED FOR:
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REV.: DATE: DESCRIPTION: BY:

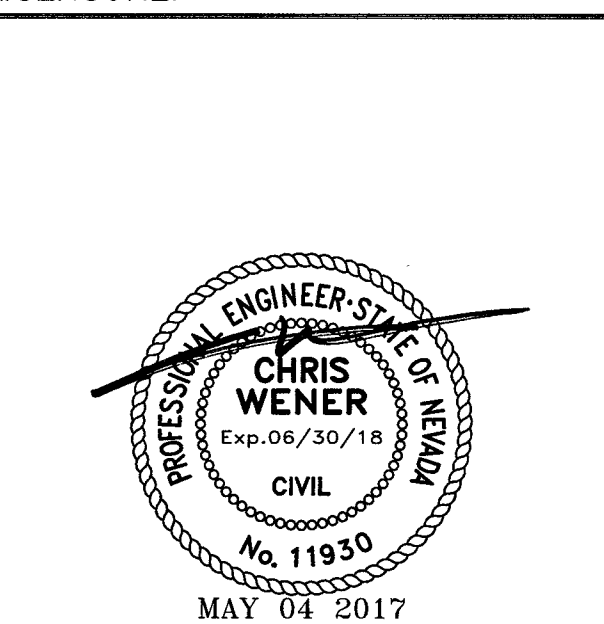
REV.	DATE	DESCRIPTION	BY
2	05/04/17	BP REVISION	V.H.
1	03/20/17	100% PERMITTING	V.H.
0	03/17/17	90% PERMITTING	V.H.

PLANS PREPARED BY:



DGS
CONSULTING ENGINEERING SERVICES LLC

LICENSURE:



SHEET TITLE:

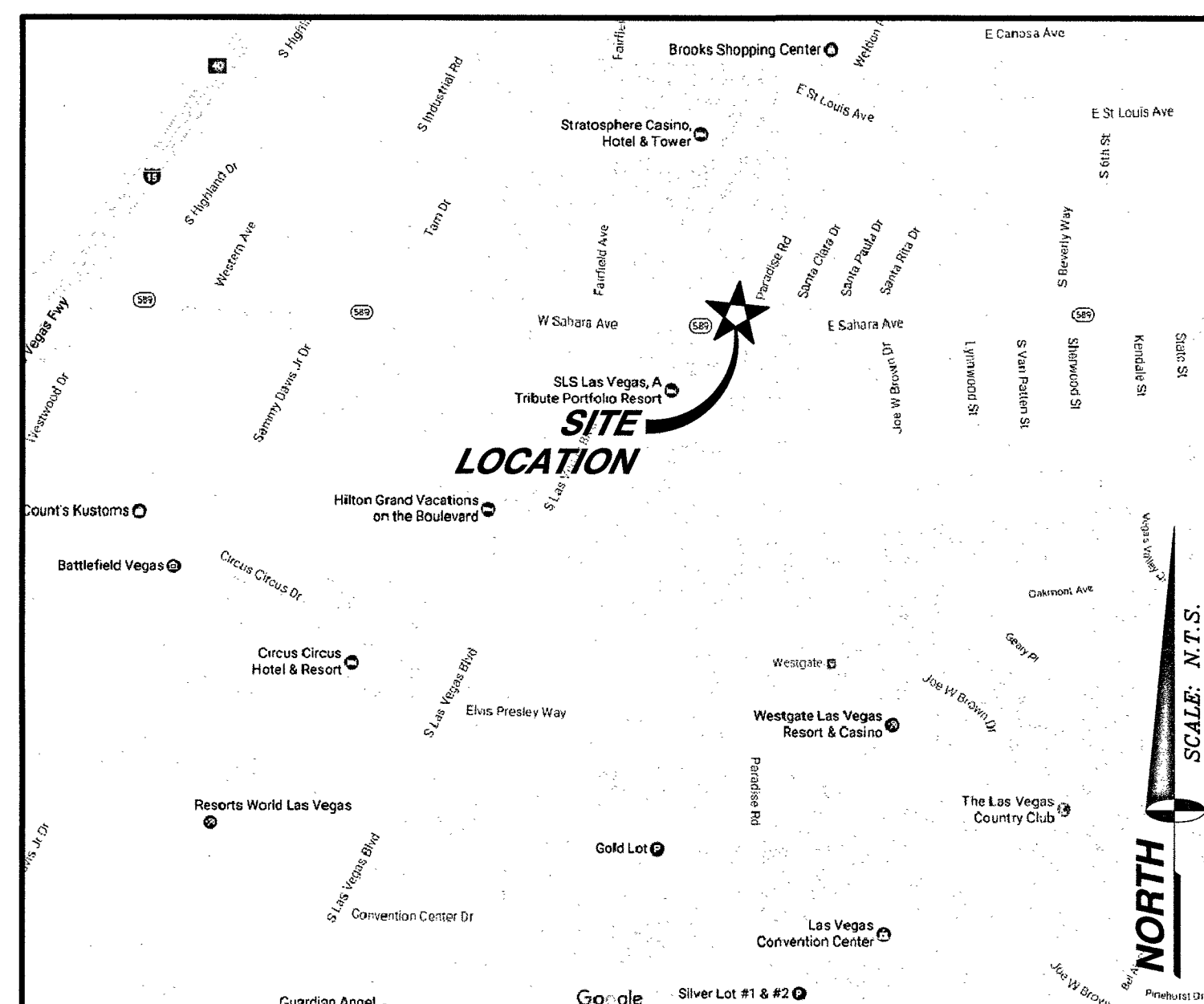
TITLE SHEET

SHEET NUMBER: REVISION:

C1 2

- TOTAL ENCROACHMENT OF UNDERGROUND POWER ROUTE WITHIN CLARK COUNTY RIGHT OF WAY ~70'

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: 162-03-499-011
LATITUDE: 36.143799
LONGITUDE: -115.15542
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	2
C2	ABBREVIATIONS, LEGEND, GENERAL & CONSTRUCTION NOTES	2
C3	SITE PLAN	2
C4	SOUTH AND EAST ELEVATION	2
C5	CONDUIT DIAGRAM	2
C6	CONSTRUCTION DETAILS	2
C7	CONSTRUCTION DETAILS	2
C8	CONSTRUCTION DETAILS	2
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 64678 107V6826-F18 DATE 5 31 17



- ## PROJECT GENERAL NOTES

- ### CONSTRUCTION NOTES



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LAS VEGAS, NEVADA 89118
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LICENSURE:



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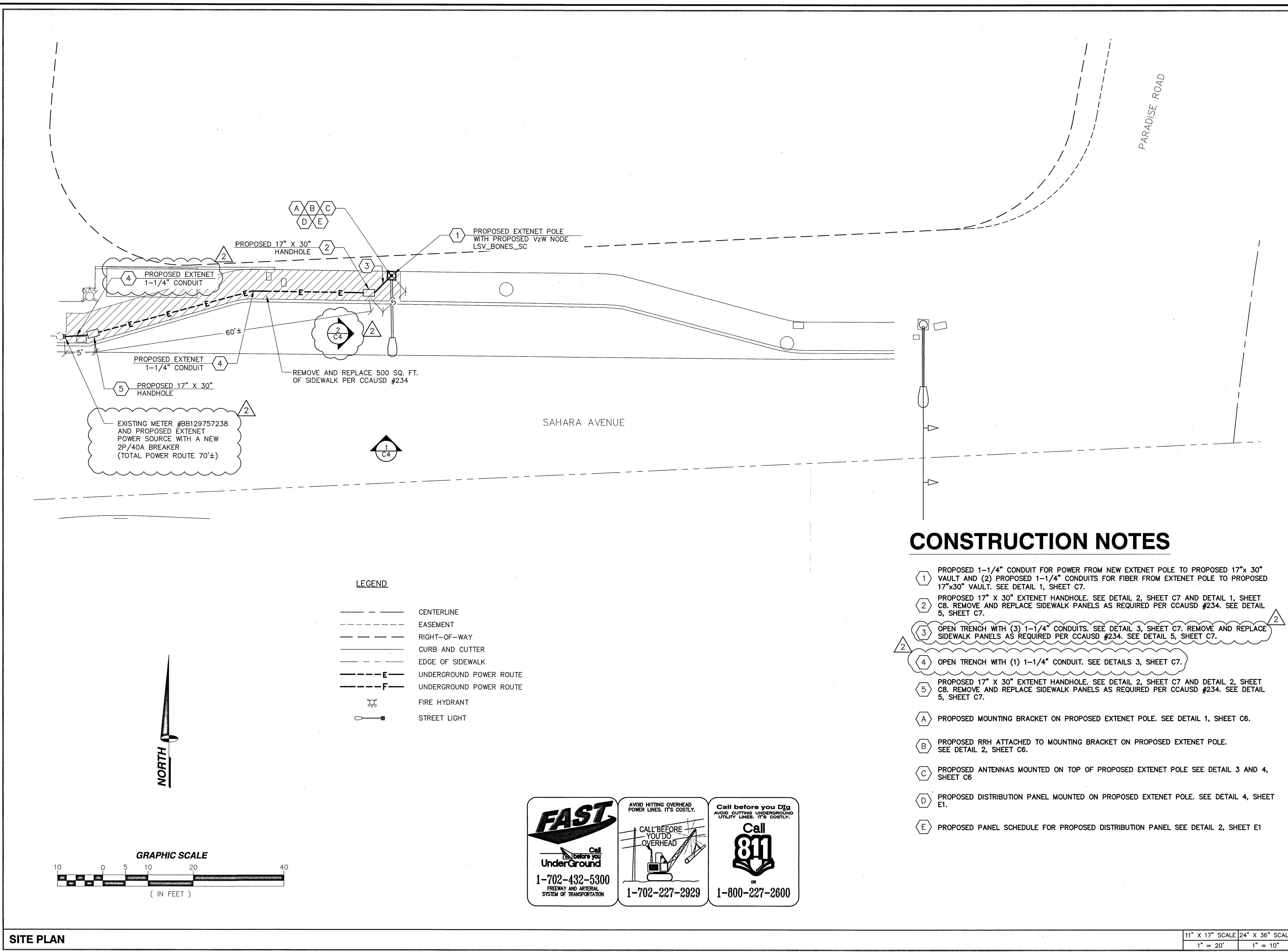
SITE PLAN

SHEET NUMBER: REVISION:

C3

2

11" X 17" SCALE 24" X 36" SCALE
1" = 20' 1" = 10'



SITE PLAN

FAST
Call before you Dig
Underground
1-702-432-5300
FREEWAY AND ARTERIAL
SYSTEM OF TRANSPORTATION

AVOID HITTING OVERHEAD
POWER LINES. IT'S COSTLY.

CALL BEFORE
YOU DO
OVERHEAD

1-702-227-2929

Call before you Dig
AVOID CUTTING UNDERGROUND
UTILITY LINES. IT'S COSTLY.

Call
811
OR
1-800-227-2600



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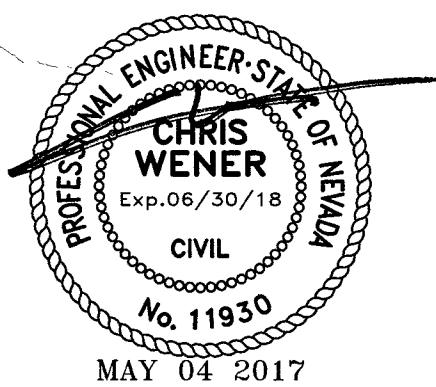
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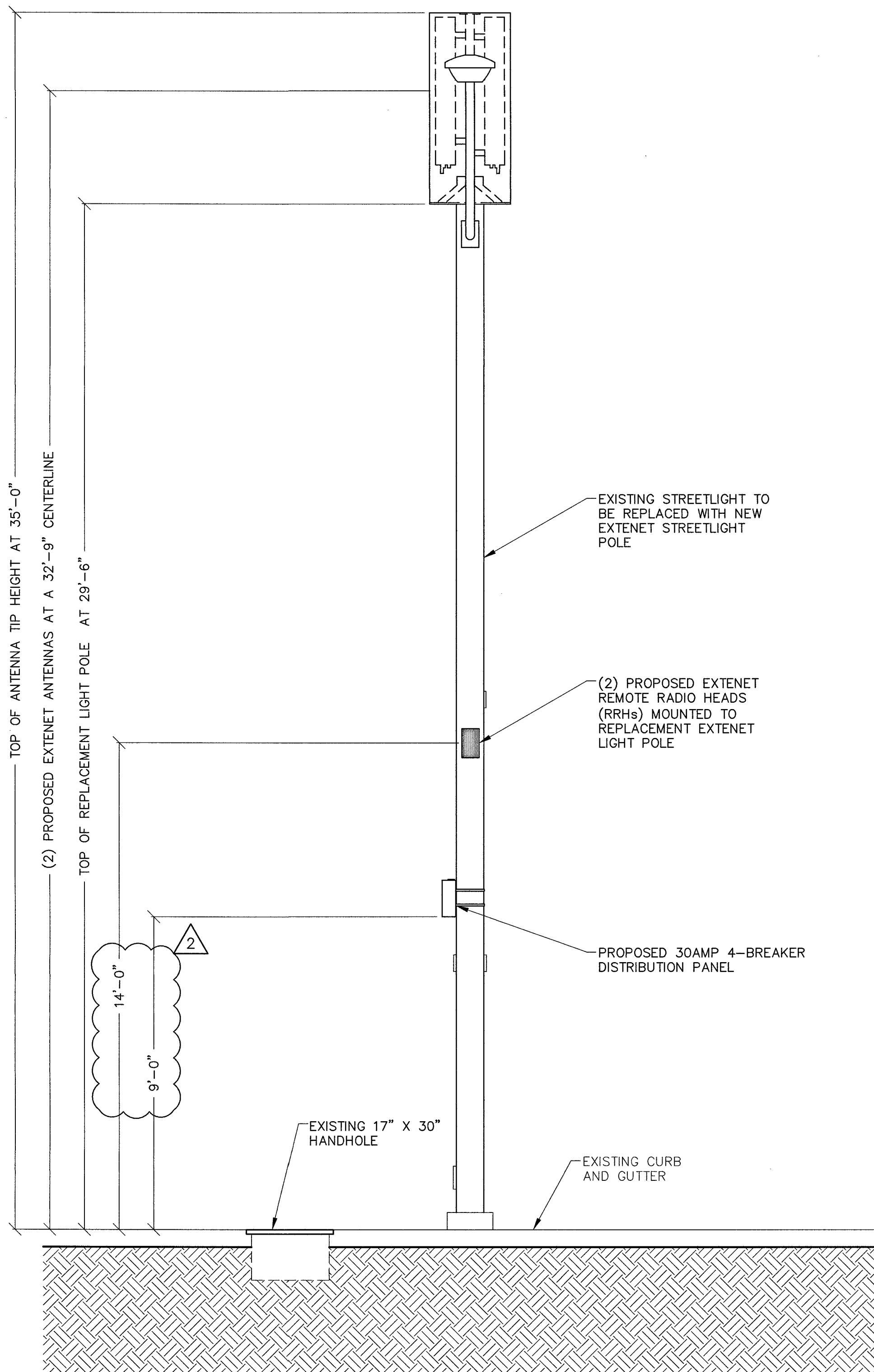
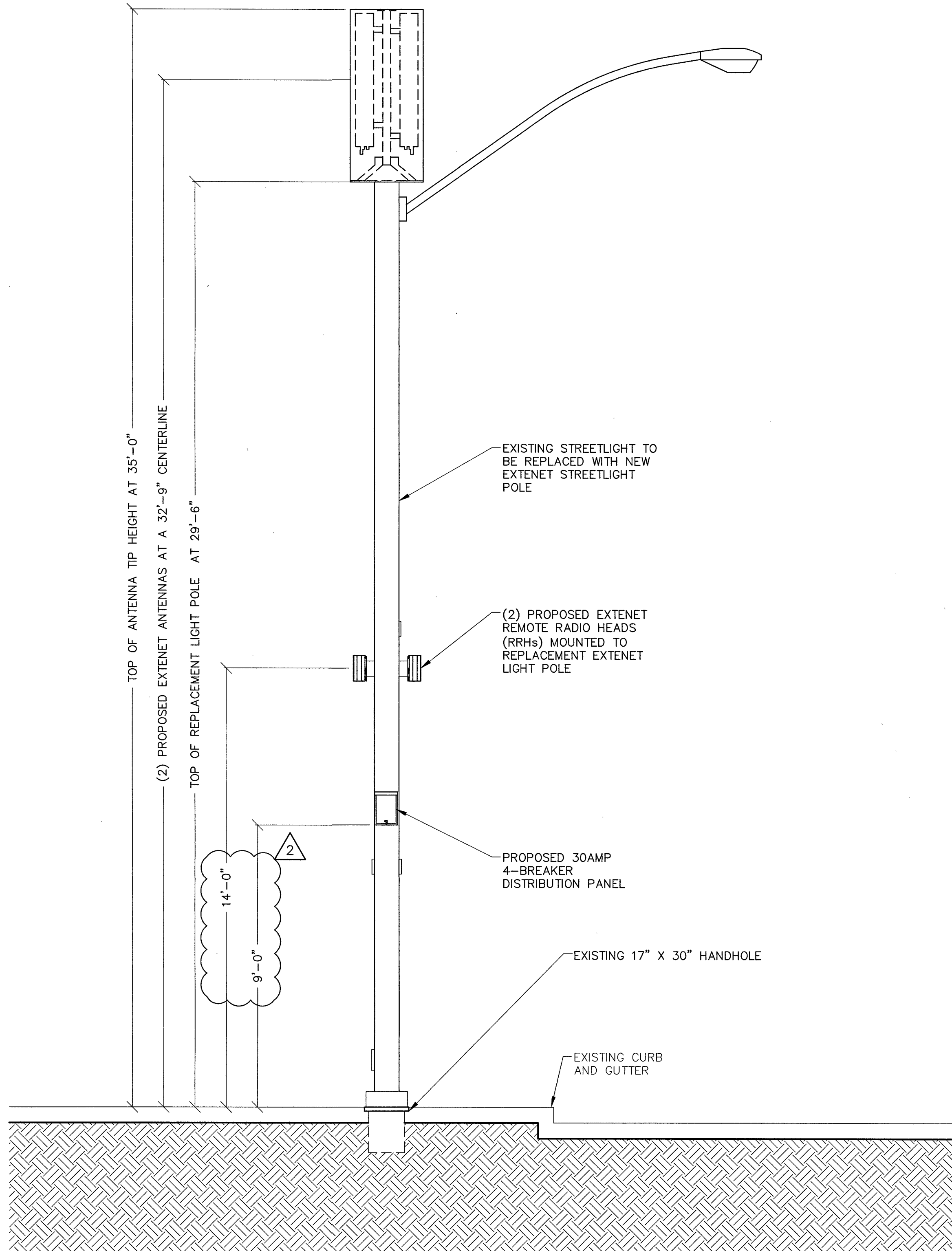


SHEET TITLE:

SOUTH AND EAST
ELEVATION

SHEET NUMBER: REVISION:

C4 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



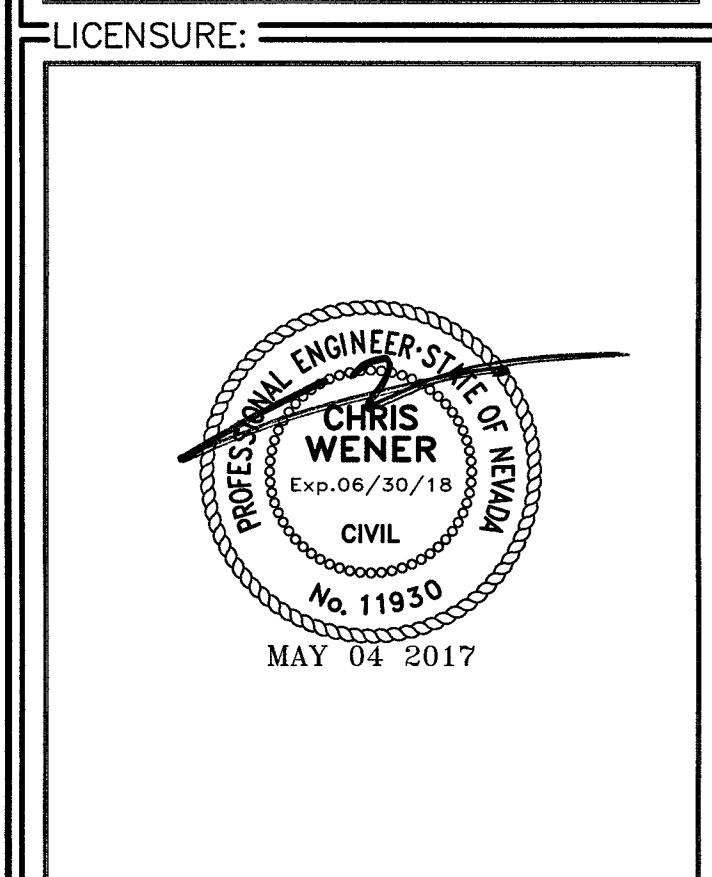
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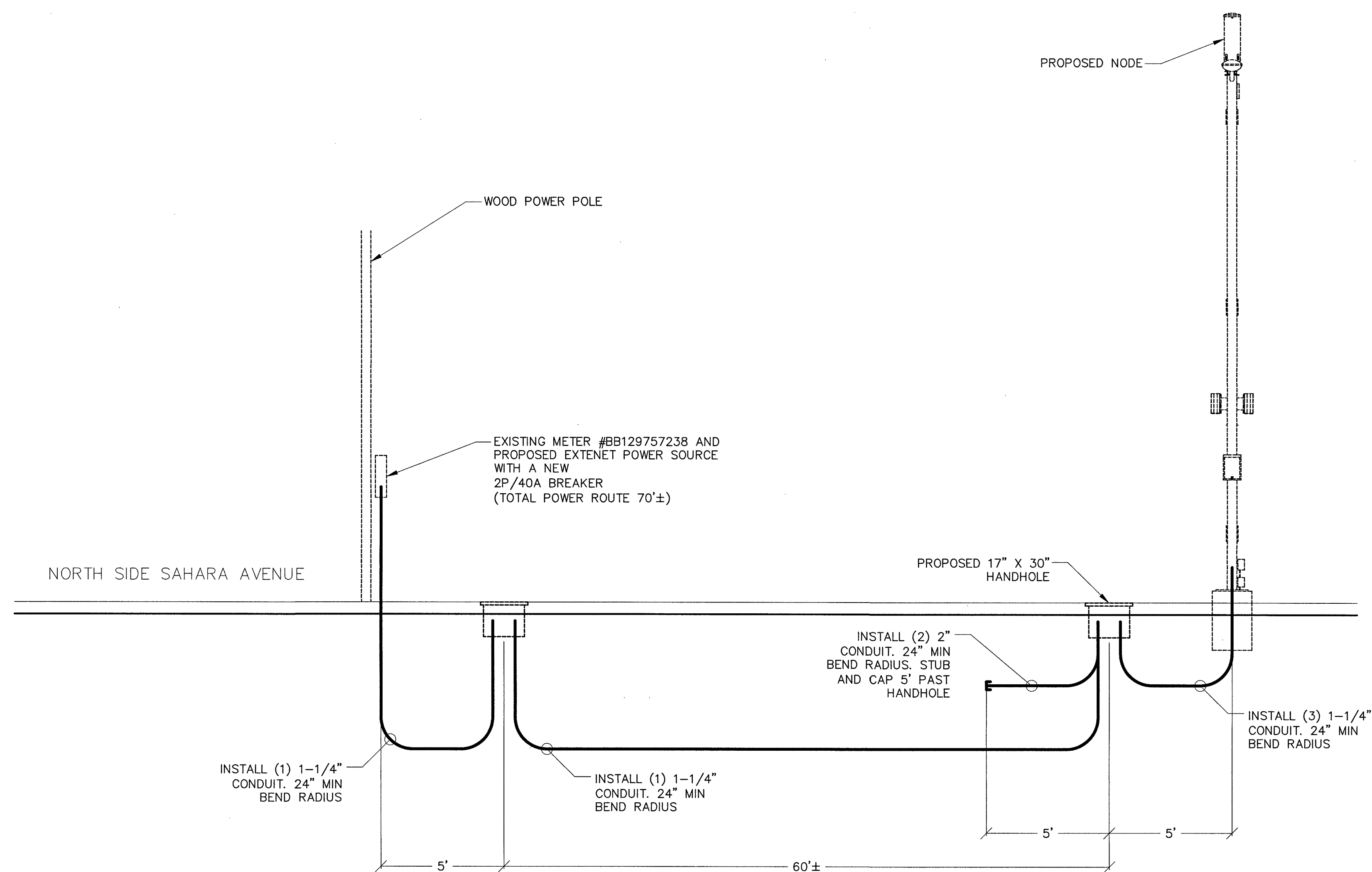
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SHEET TITLE:
CONDUIT DIAGRAM

SHEET NUMBER: C5
REVISION: 2

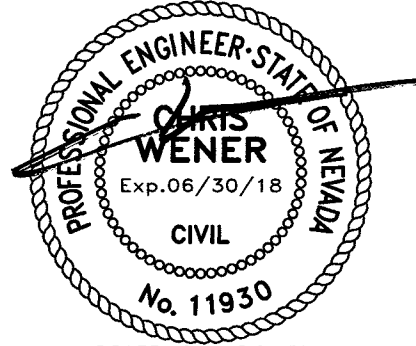


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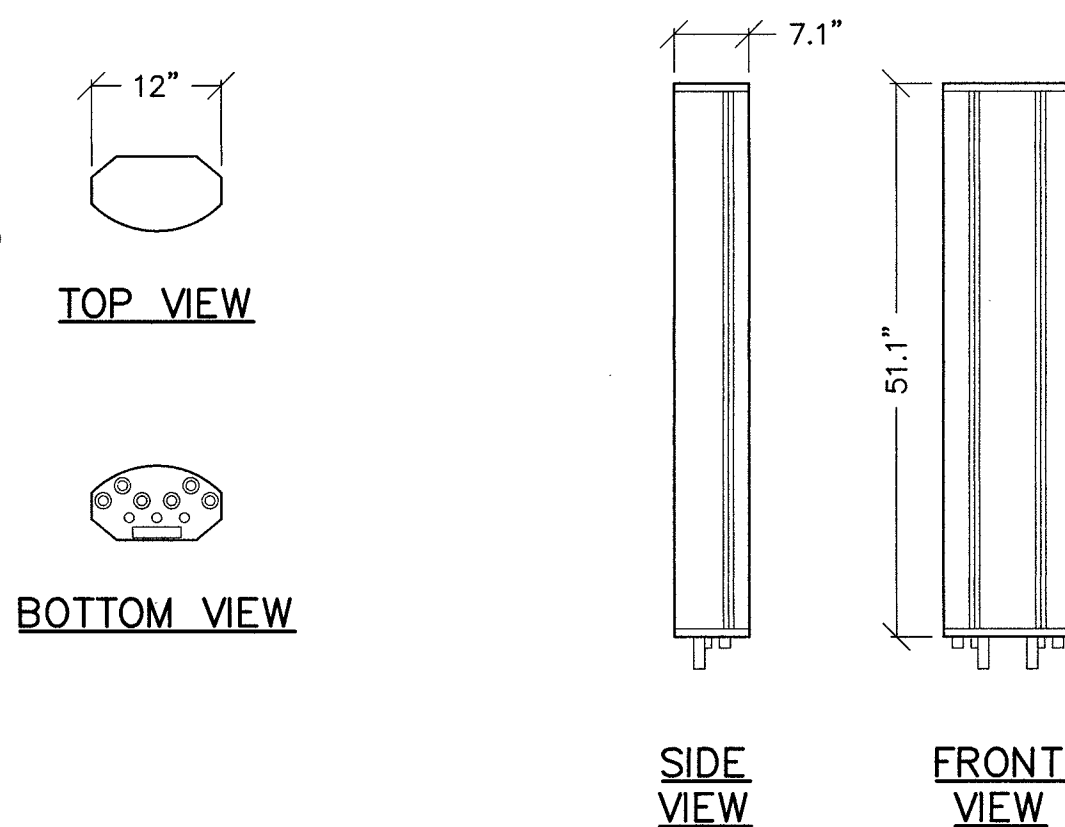
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SHEET TITLE:
CONSTRUCTION DETAILS

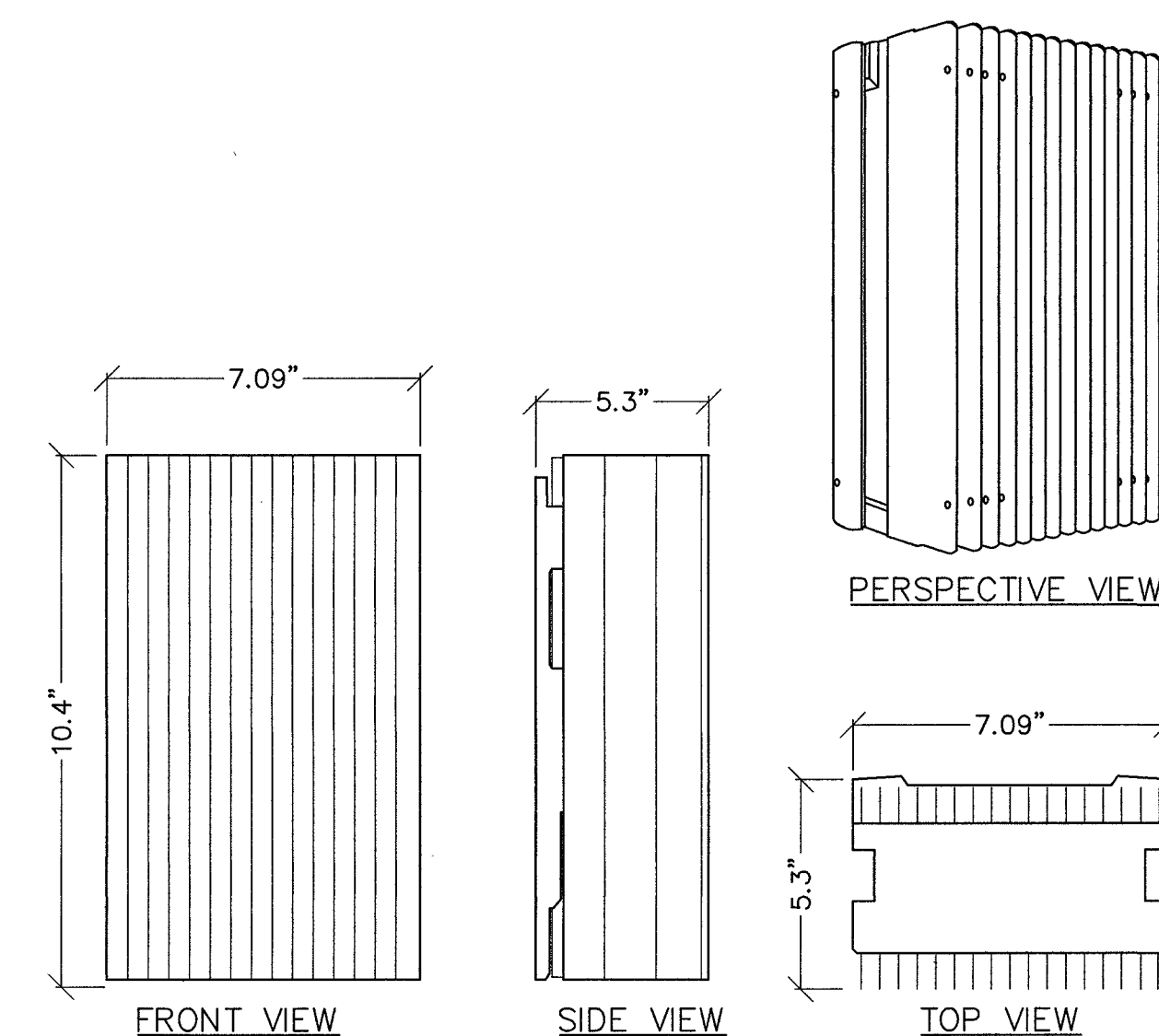
SHEET NUMBER: C6
REVISION: 2

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

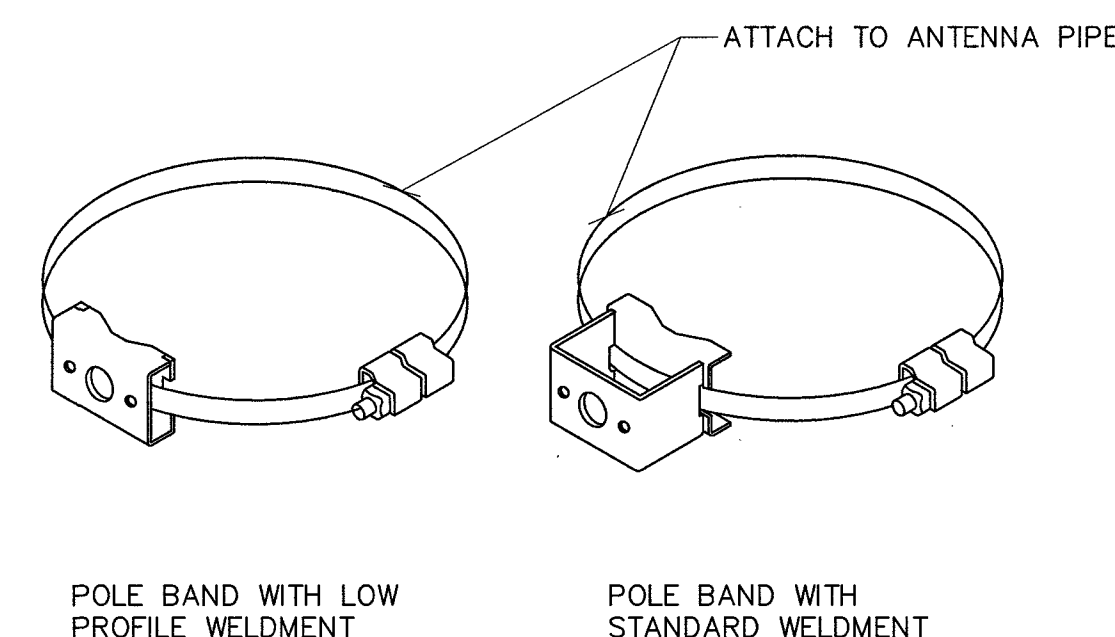


SCALE: NONE 5 **ANTENNA DETAIL**

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)**

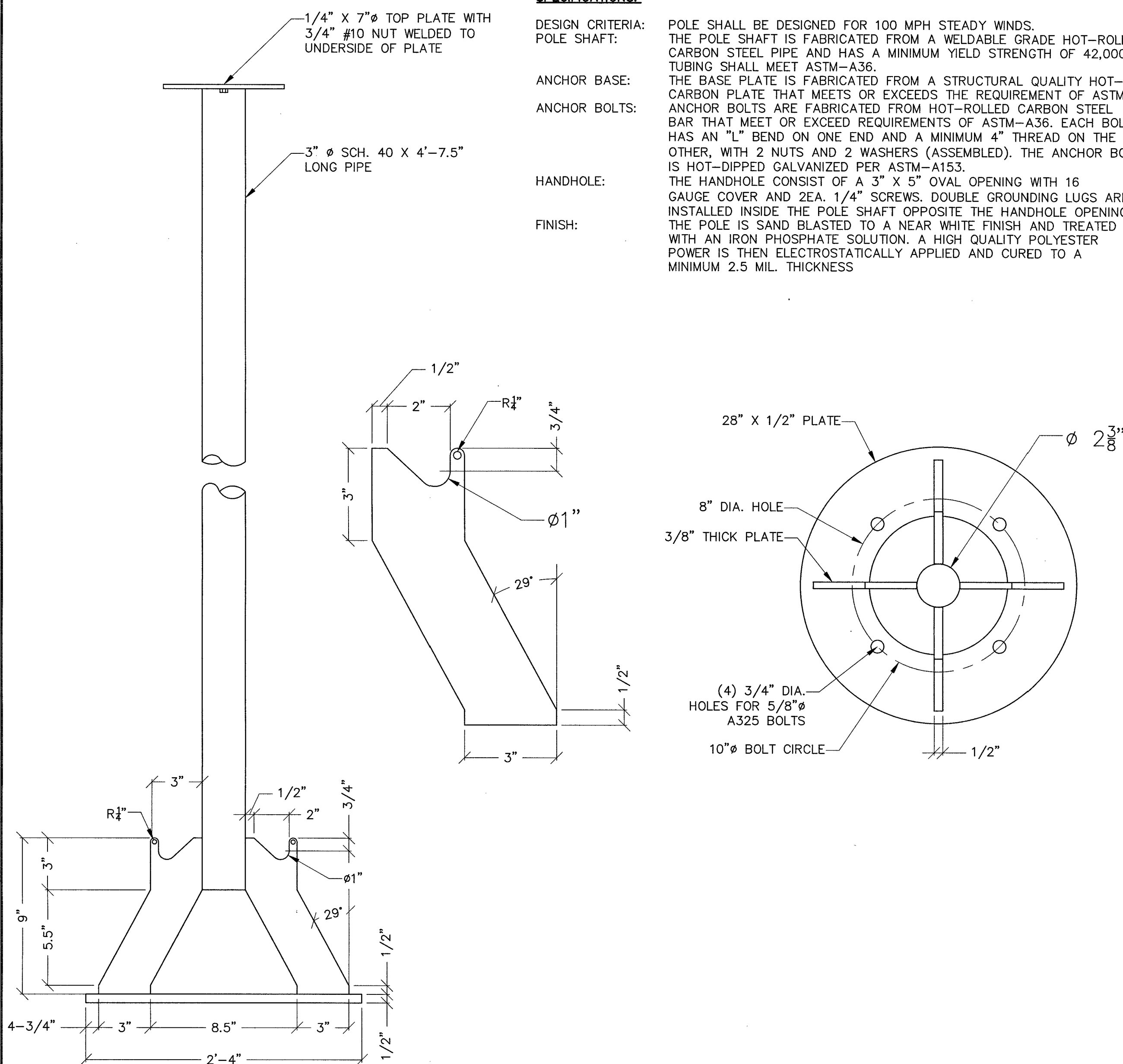


SCALE: NONE 4 **MOUNTING BANDS**

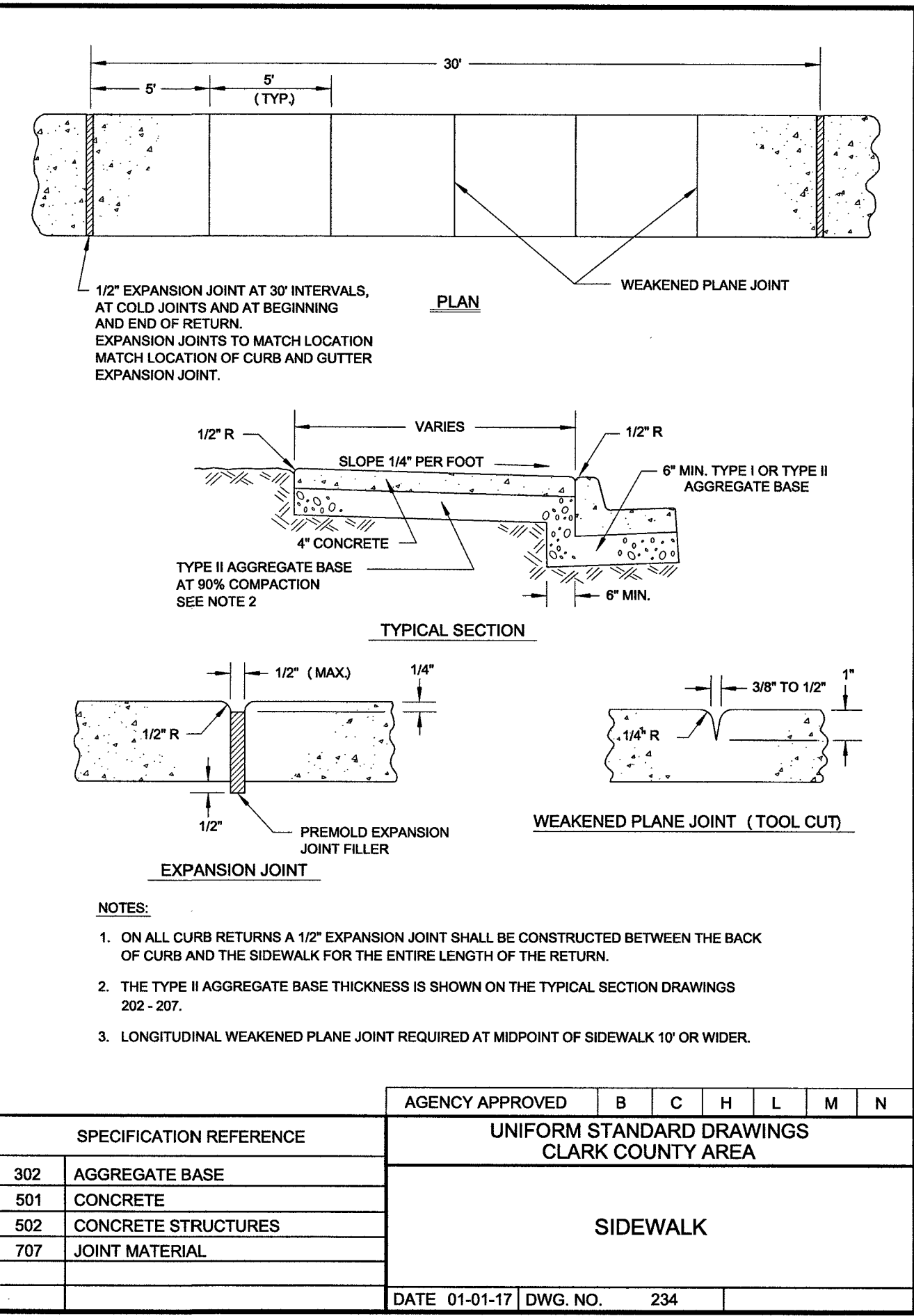
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SPECIFICATIONS:

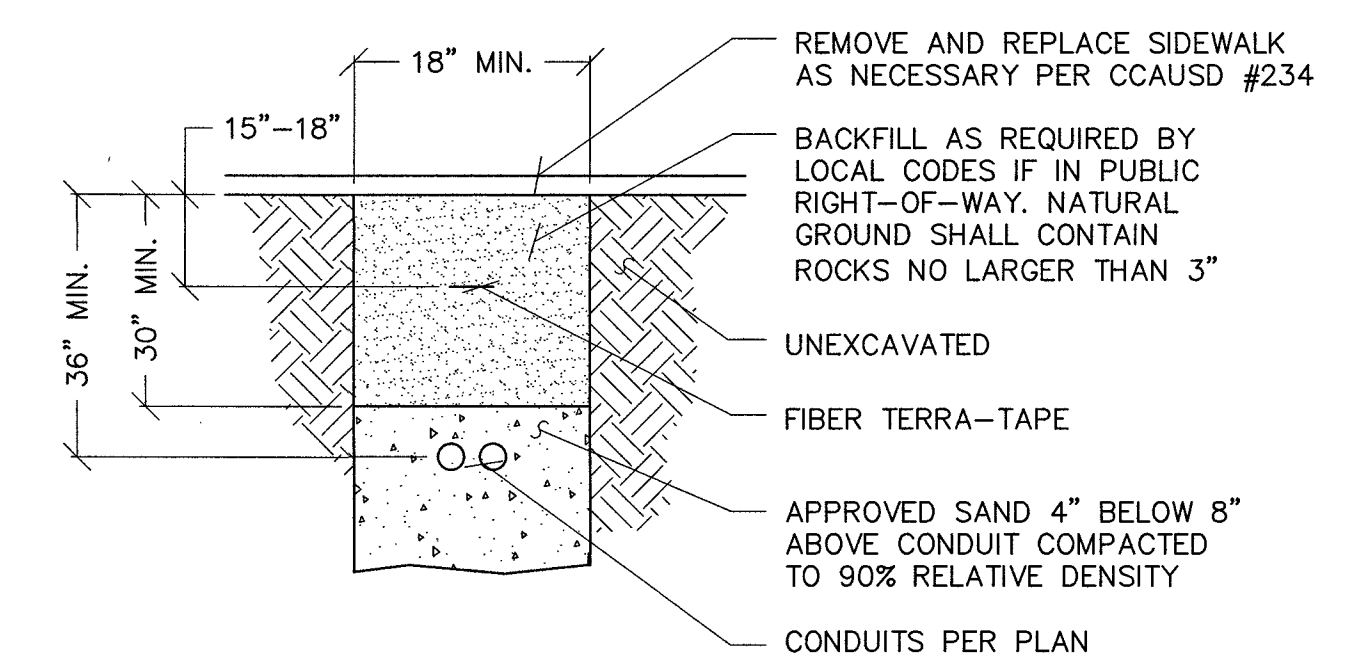
DESIGN CRITERIA: POLE SHALL BE DESIGNED FOR 100 MPH STEADY WINDS.
POLE SHAFT: THE POLE SHAFT IS FABRICATED FROM A WELDABLE GRADE HOT-ROLLED CARBON STEEL PIPE AND HAS A MINIMUM YIELD STRENGTH OF 42,000 PSI. TUBING SHALL MEET ASTM-A36.
ANCHOR BASE: THE BASE PLATE IS FABRICATED FROM A STRUCTURAL QUALITY 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 POWER IS THEN ELECTROSTATICALLY APPLIED AND CURED TO A MINIMUM 2.5 MIL. THICKNESS



CEM-TEC APS ANTENNA MAST



NOTE: TYPICAL INSTALLATION. UTILITY DESIGN TAKES PRECEDENCE.

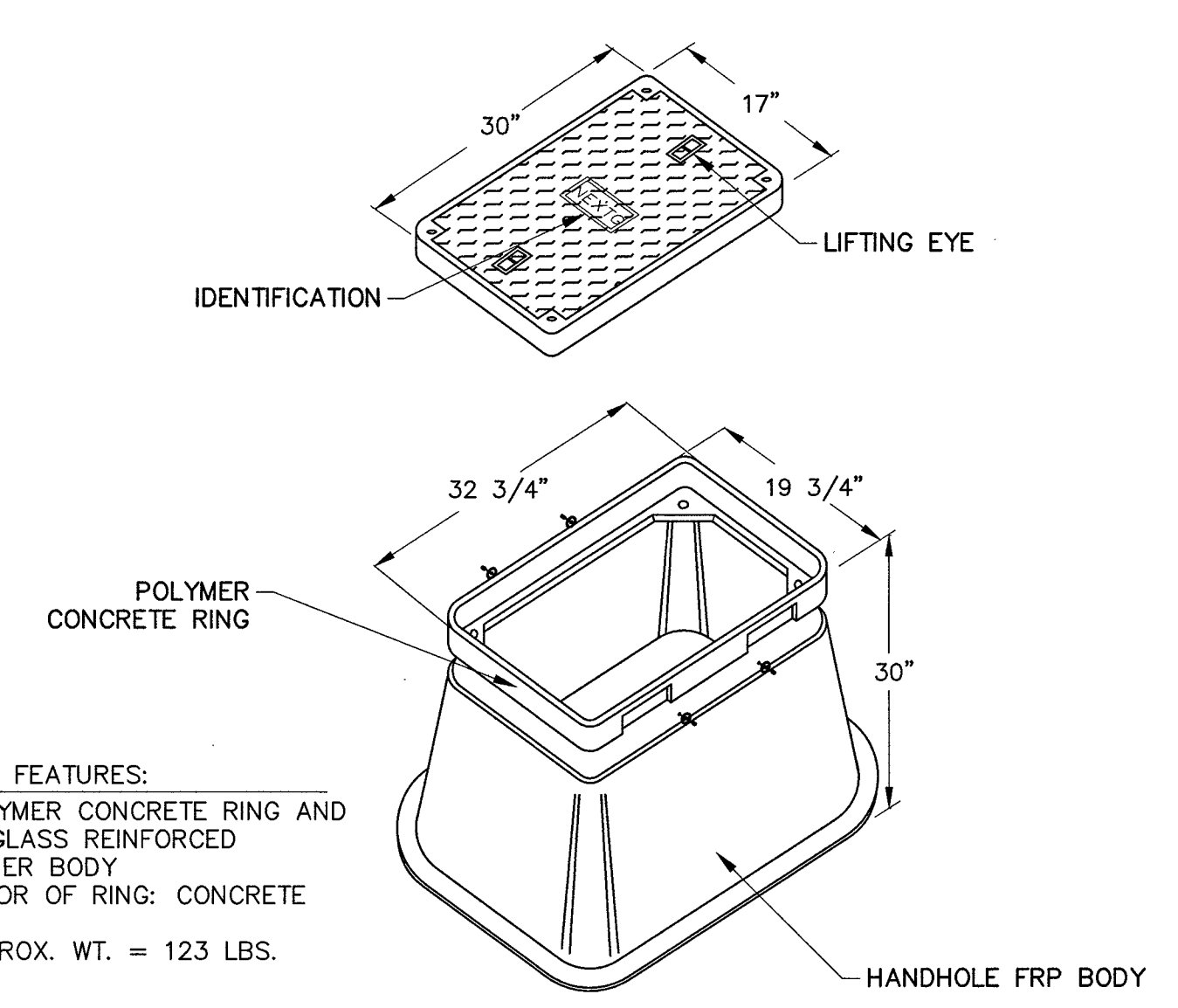


POWER AND FIBER TRENCHING

SCALE: NONE 3

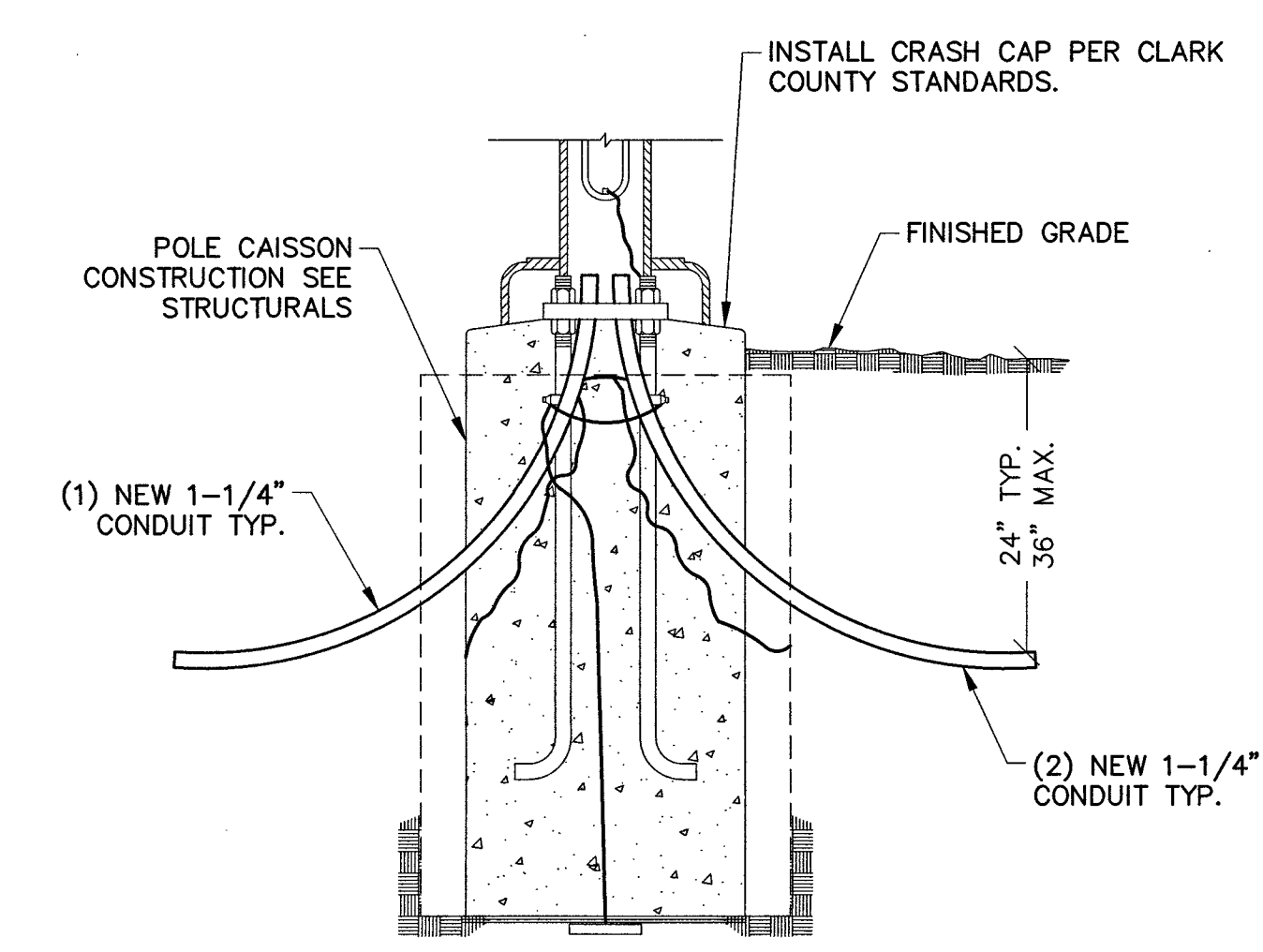
- COVER FEATURES:
- * PW - 10,400 LBS. WHEEL LOAD ON 10" X 10" PLATE.
 - * APPROX. WT. = 72 LBS.
 - * POLYMER CONCRETE
 - * ONE PIECE COVER
 - * FOUR BOLT DOWN
 - * COLOR: CONCRETE GRAY
 - * NON - SKID SURFACE

- 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

CCAUSD #234 SIDEWALK RESTORATION

SCALE: NONE 5

NOT USED

SCALE: NONE 4

3030 WARRENVILLE ROAD, SUITE 340
LISLE, ILLINOIS 60532

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LICENSURE:

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: REVISION:

C7 2

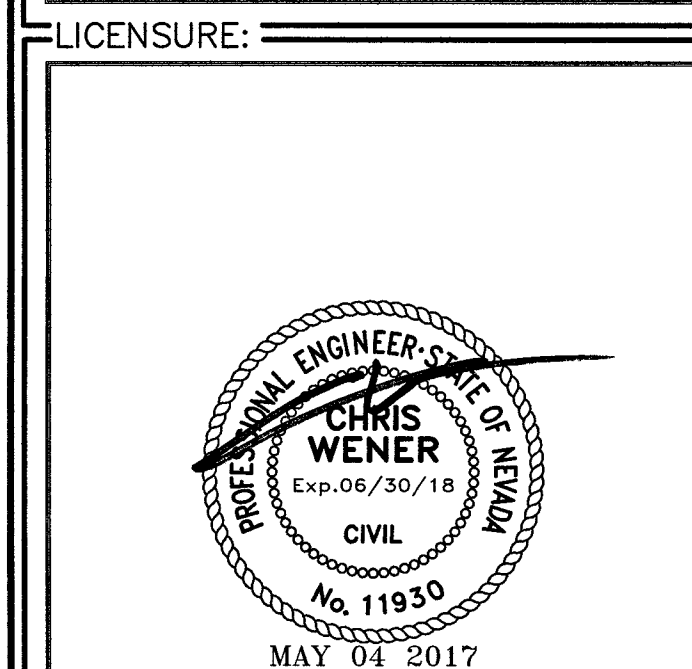


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SHEET TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER: C8
REVISION: 2

NOT USED

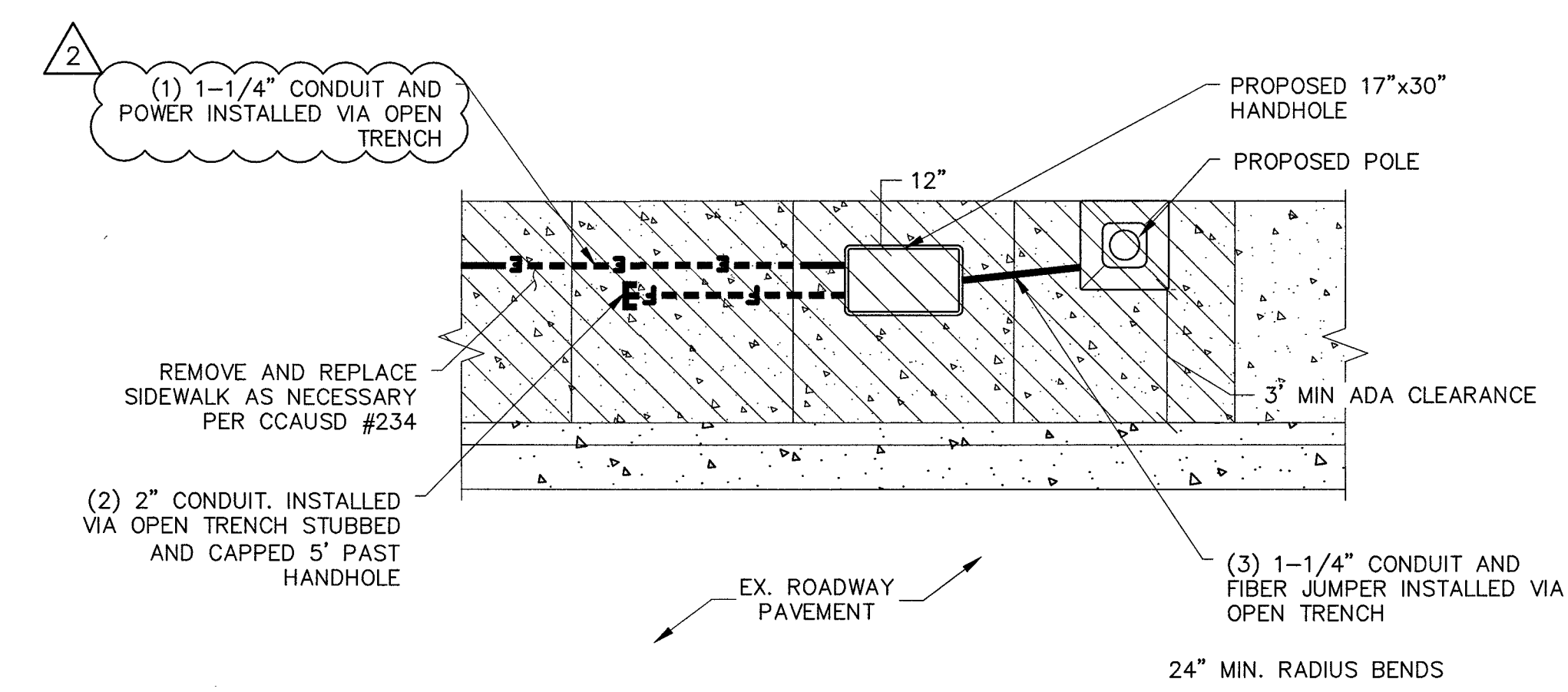
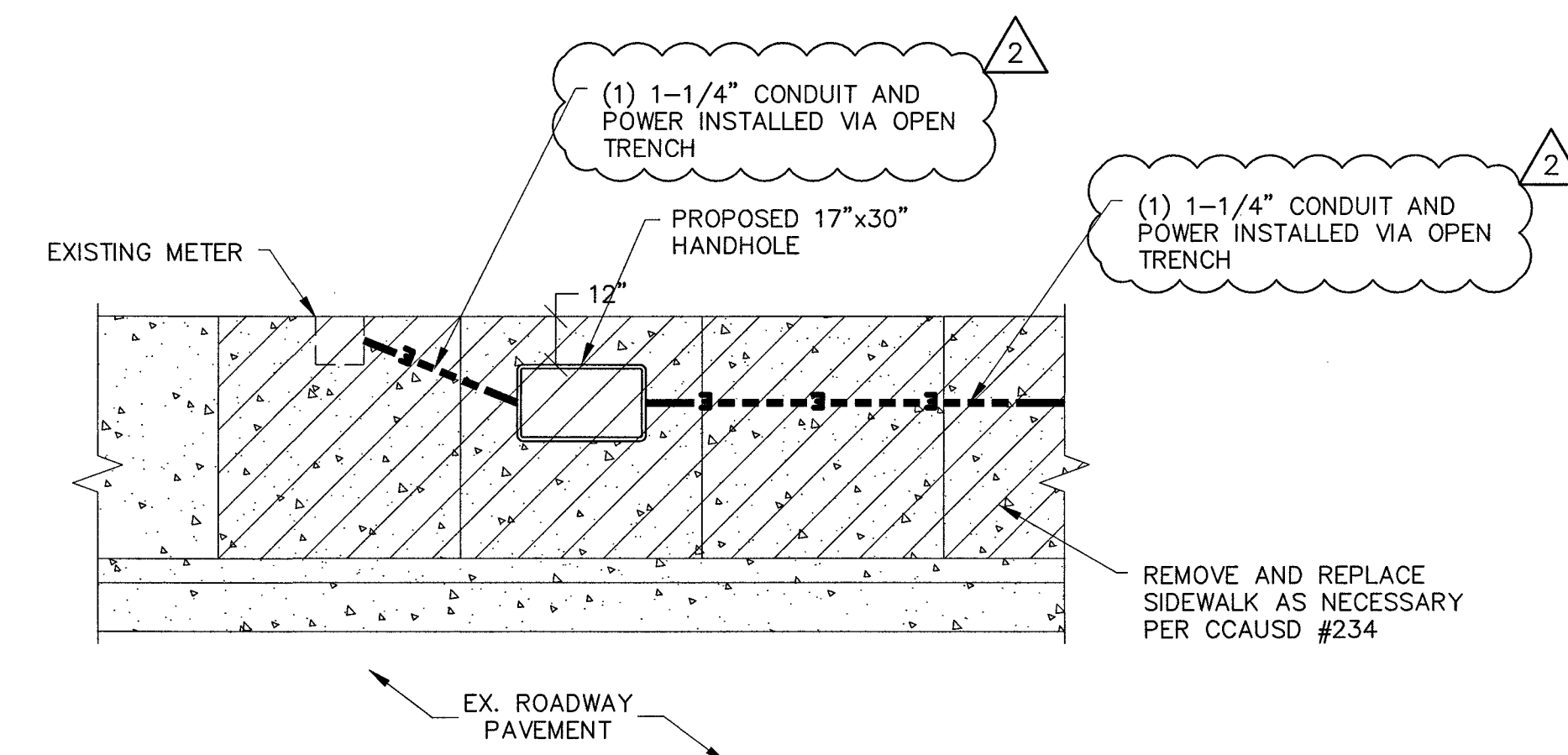
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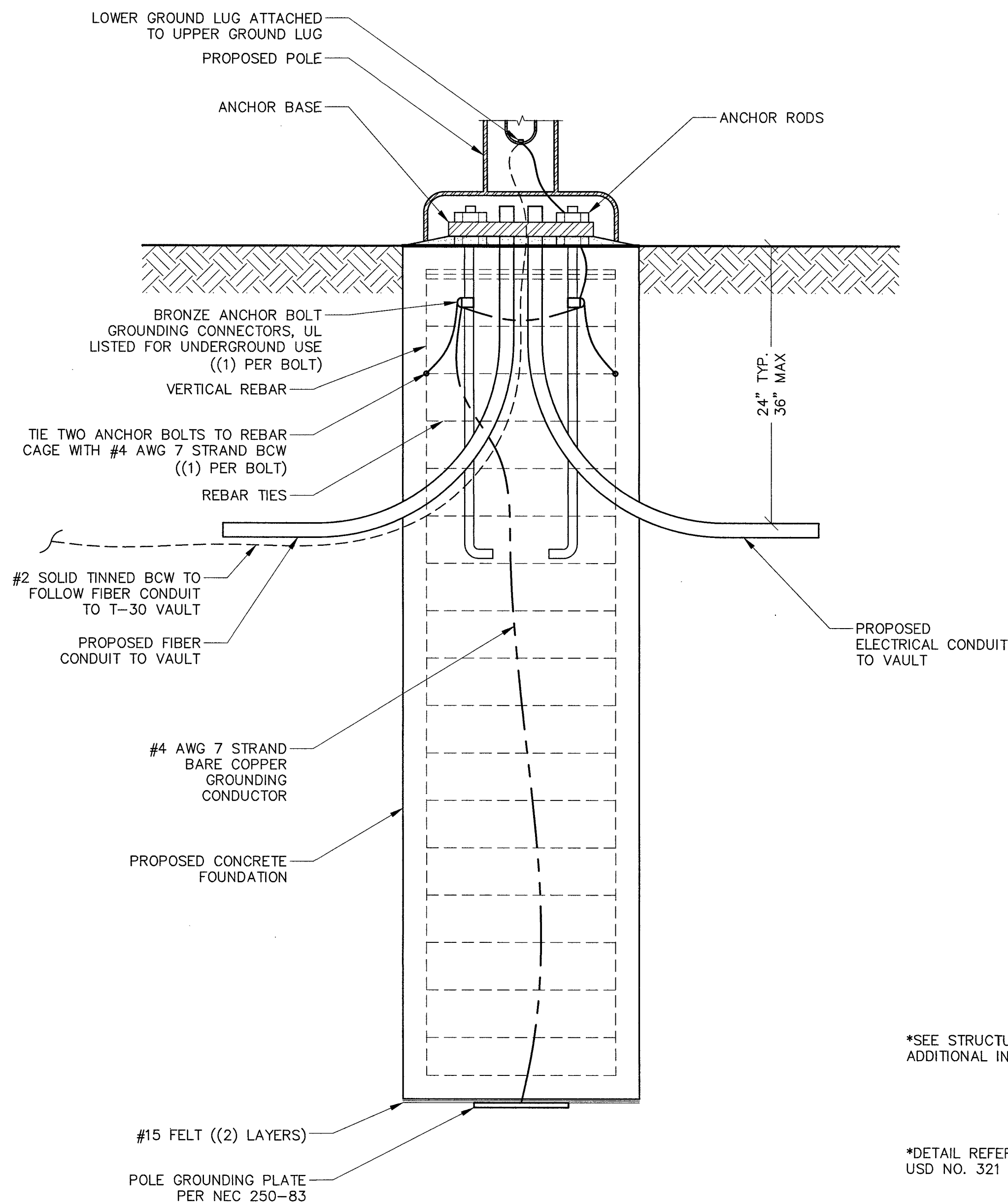
NOT USED

5 POWER INSTALLATION UNDER SIDEWALK AT METER

NOT USED

4 POWER AND FIBER INSTALLATION UNDER SIDEWALK AT PROPOSED POLE





1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS AND CARRIER GROUNDING STANDARD, NSTD46 LATEST REVISION.
2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND RING TO GROUND BAR CONNECTIONS SHALL BE CADWELDED QTY. (2) #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
4. GROUND BAR TO EQUIPMENT AND CABLES SHALL BE #2 AWG BTCW W/ DOUBLE LUG CONNECTIONS.
5. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
6. GROUND BAR LOCATED BELOW WAVEGUIDE ENTRY PORT. CABLES SHALL BE #2 AWG BTCW/DOUBLE LUG CONNECTIONS. TWO PATHS TO GROUND RING.
7. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
8. EXTERIOR GROUNDING CONDUCTORS: BURIED TO A MINIMUM DEPTH OF 1'-6" BELOW FINISHED GRADE TO ALLOW FOR FUTURE CONSTRUCTION.
9. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
10. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
11. 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.
12. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
13. ALL BOLTED TORQUE CONNECTORS SHALL BE LONG-BARRELLED TYPES AND HAVE TWO HOLES FOR CONNECTION TO SURFACE AND NON-OXIDIZING AGENT APPLIED TO INHIBIT CORROSION.

GROUNDING NOTES

SCALE: NONE 3

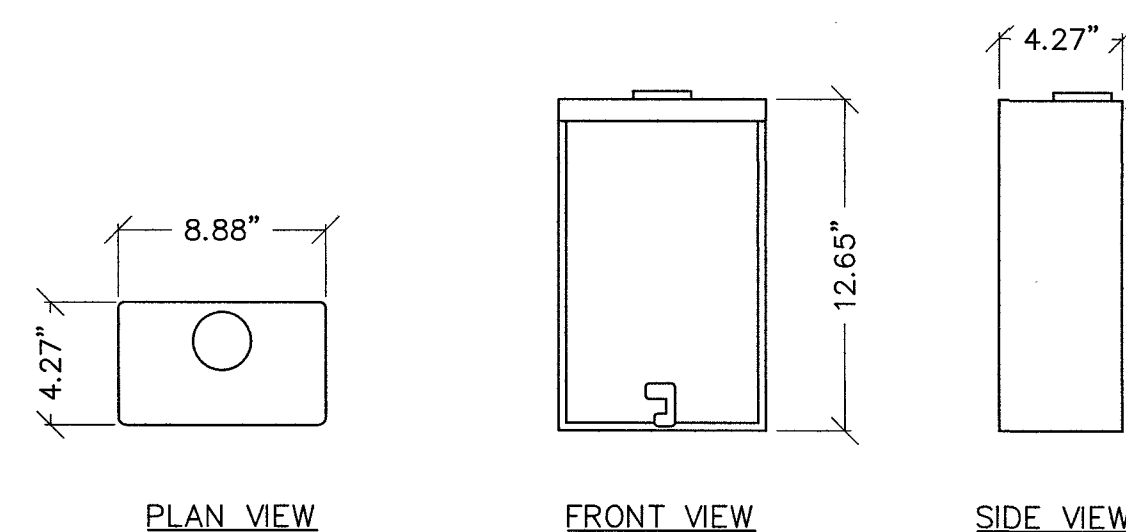
Panel: A				PANEL VOLTAGE: 120/240 1Ø, 3W				CIRCUIT CODE:				N: NON-CONTINUOUS				M: MOTOR								
SLD: X				Plan: X				BUS: 60 AMPS				C: CONTINUOUS				P: PANEL								
LOCATION: X				MAIN: C.B. 30 AMPS				R: DEMANDABLE RECEPIS				E: ELEV: (0)												
				AIC RATING: 10,000 AMPS				MOUNTING: SURFACE				K: KITCHEN: (0)												
CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION				CONNECTED VA								LOAD DESIGNATION				TRIP	POLE	CODE	CKT NO	
				DESCRIPTION	NOTE	MISC	RECP	LTG	ØA	ØB	A	B	ØA	ØB	LTG	MISC	NOTE	DESCRIPTION						
1	N	20	1	Proposed Breaker					600						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				

STREETLIGHT GROUNDING

SCALE: NONE 5

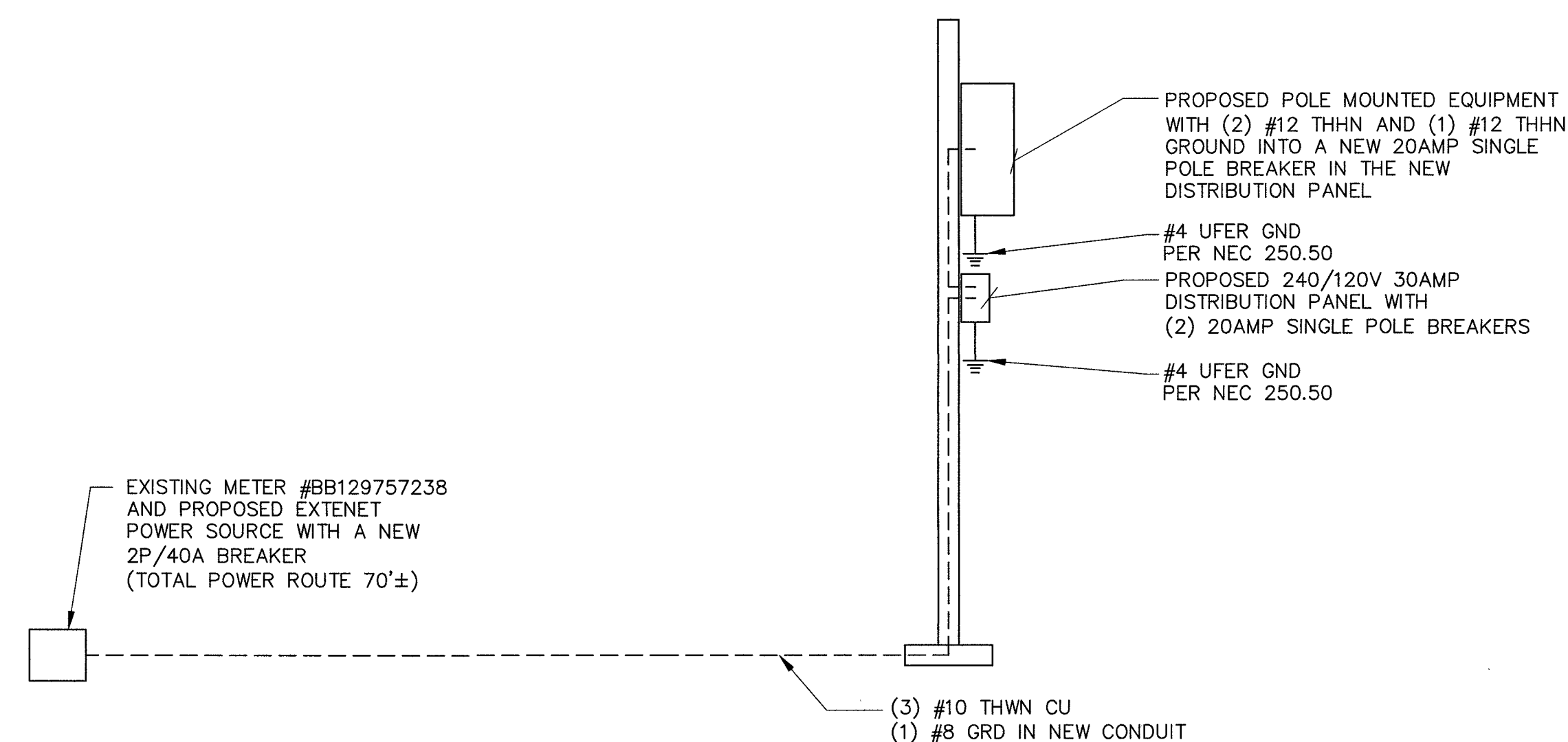
SQUARE D Q0612L100RBCP SPECIFICATIONS

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



PANEL SCHEDULE

SCALE: NONE 2



DISTRIBUTION PANEL

SCALE: NONE 4

SINGLE LINE DIAGRAM

SCALE: NONE 1



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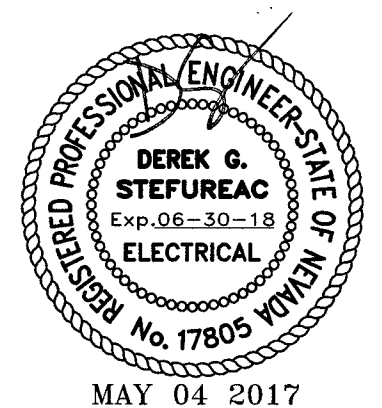
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LICENSURE:



SHEET TITLE:

SINGLE LINE DIAGRAM,
PANEL SCHEDULE AND
NOTES

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E1 2