



- PROJECT GENERAL NOTES

- ### CONSTRUCTION NOTES



Redlined Construction
Drawings

Theresa Sianez

Theresa Sianez
Spectrum Services

Date

11/22/19

APN: 163-06-597-009
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-013
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-014
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-015
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-016
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-017
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-018
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-019
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

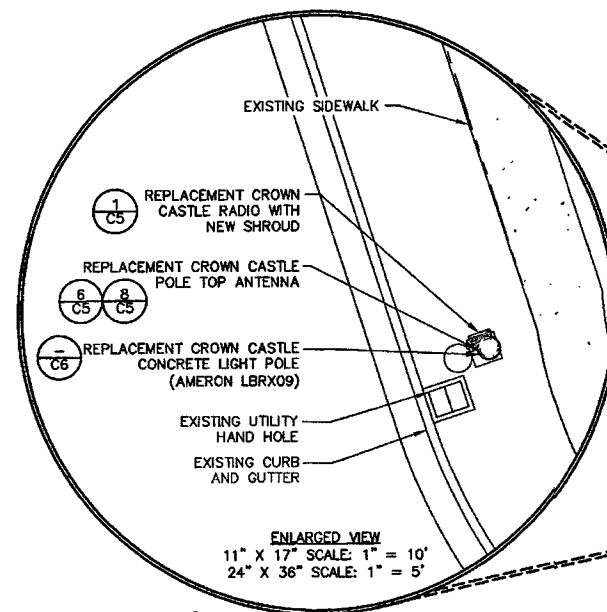
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ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-021
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-022
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

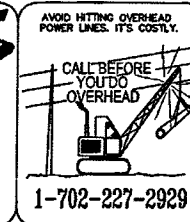
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ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)

APN: 163-06-512-024
ZONED: RESIDENTIAL PLANNED
DEVELOPMENT DISTRICT (R-PD7)



LEGEND

- CENTERLINE
- EASEMENT
- RIGHT-OF-WAY
- CURB AND CUTTER
- EDGE OF SIDEWALK
- UNDERGROUND FIBER ROUTE
- FIRE HYDRANT
- STREET LIGHT



CROWN CASTLE NG WEST LLC
2055 SOUTH STEARMAN DRIVE
CHANDLER, ARIZONA 85286

PROJECT INFORMATION:

CROWN CASTLE ID #
LV004

9499 WINNING COLORS DRIVE
LAS VEGAS, NEVADA 89117

CURRENT ISSUE DATE:

04/09/19

ISSUED FOR:

PROPOSED WORK

REV: DATE: DESCRIPTION: BY:

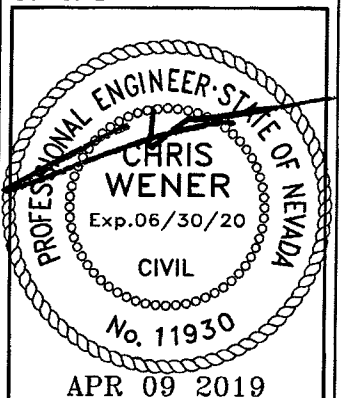
2	02/05/19	POLE REVISION	R.C.
1	10/15/18	100% PERMITTING	C.P.
0	09/17/18	90% PERMITTING	R.C.

PLANS PREPARED BY:



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

LICENSURE:



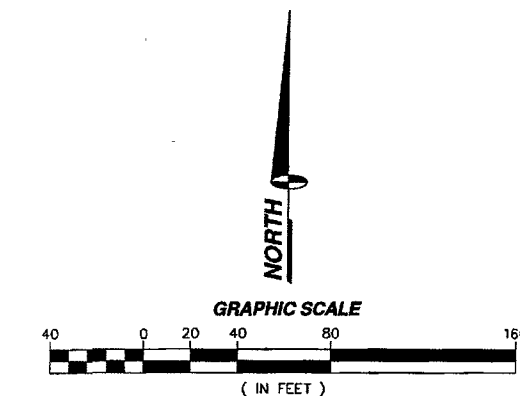
SHEET TITLE:

SITE PLAN

SHEET NUMBER: REVISION:

C3

2



SITE PLAN

11" X 17" SCALE: 1" = 10'
24" X 36" SCALE: 1" = 5'

1

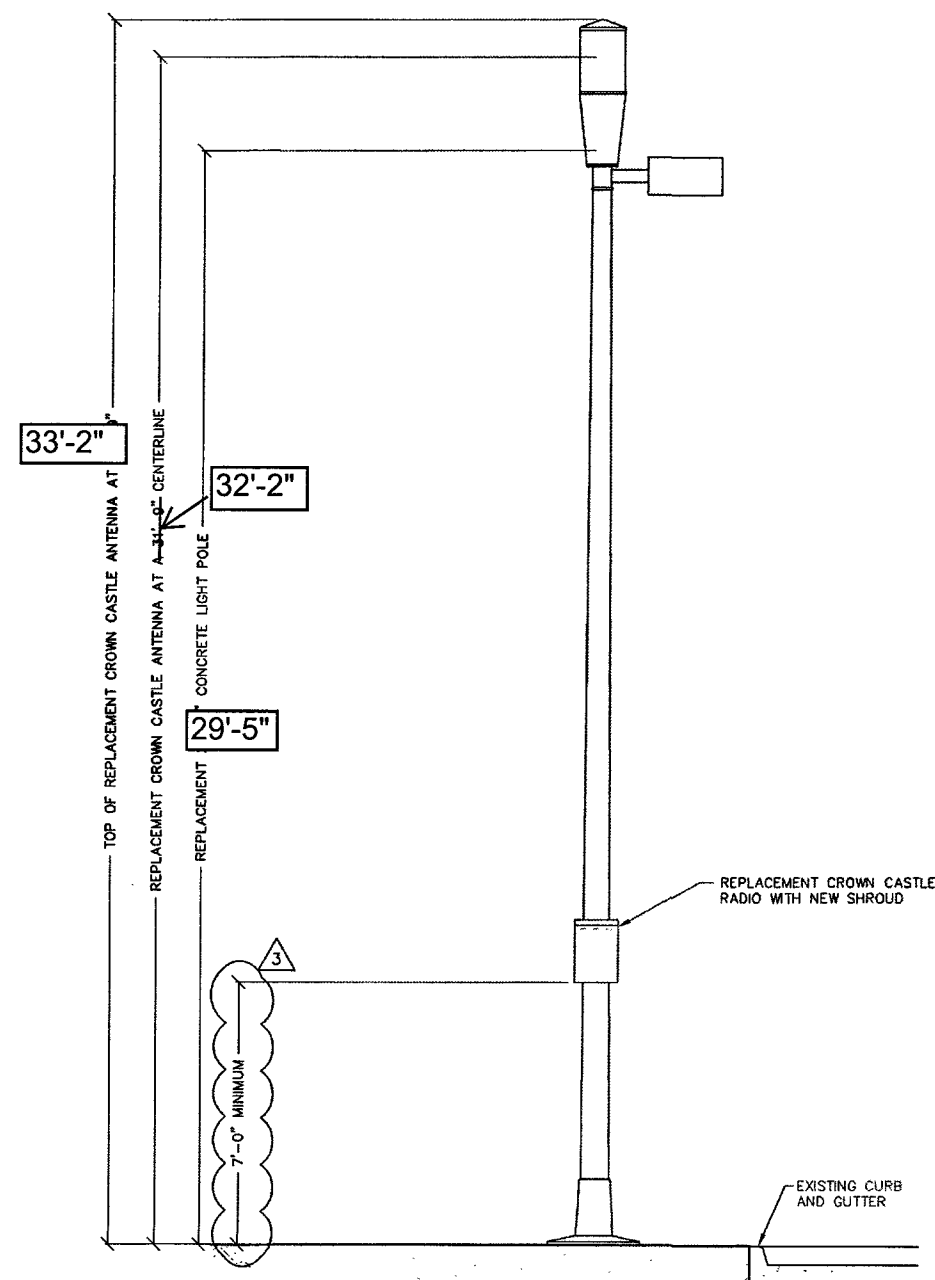
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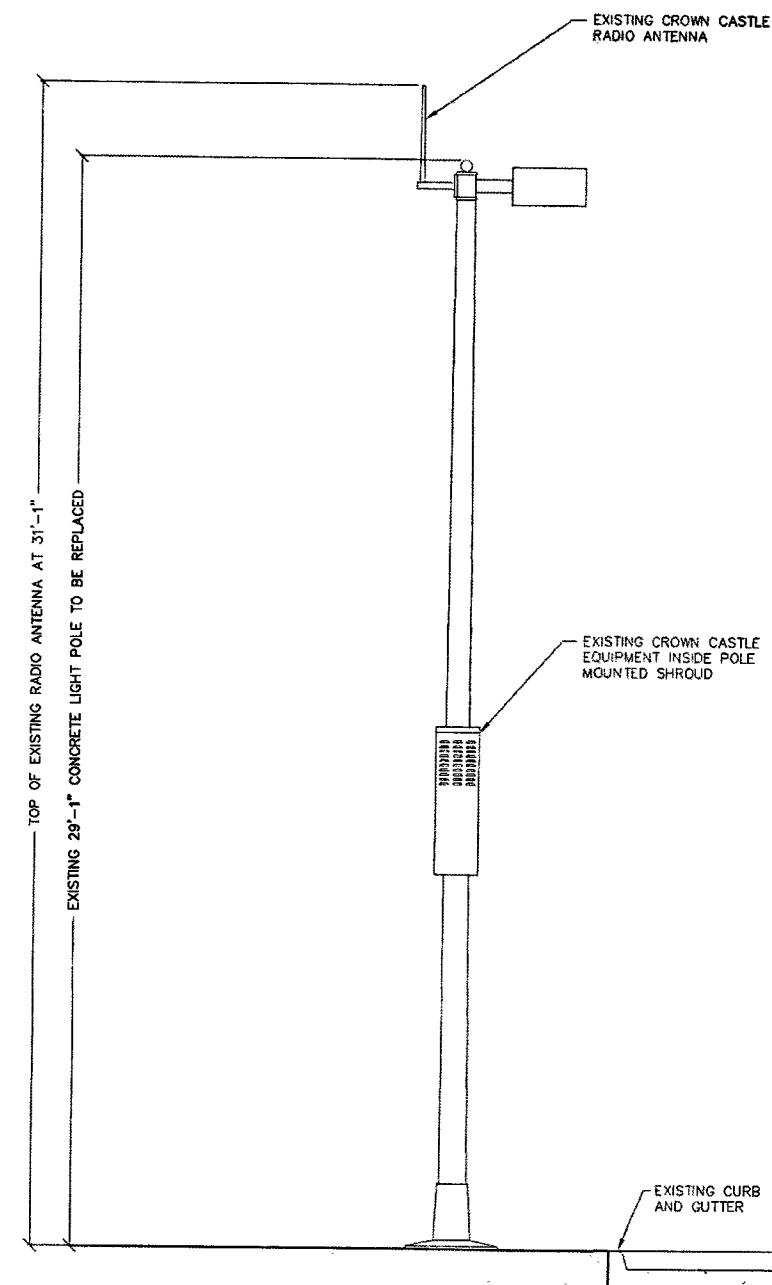


PROPOSED NORTH ELEVATION

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

2

EXISTING NORTH ELEVATION



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

1

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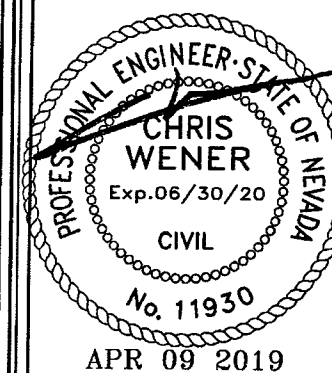
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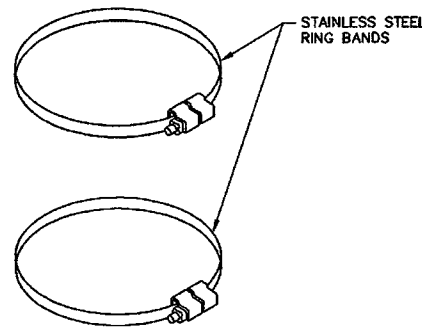
SHEET TITLE:

EXISTING AND PROPOSED
NORTH ELEVATION

SHEET NUMBER: REVISION:

C4

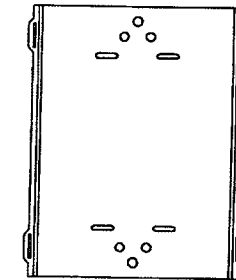
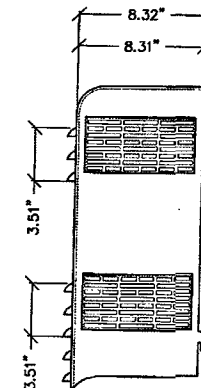
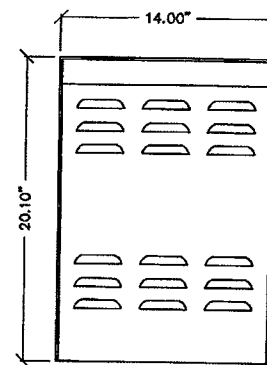
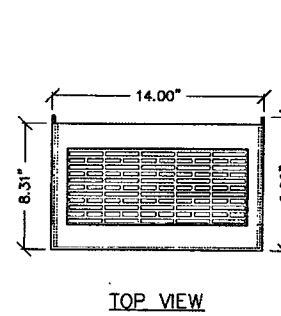
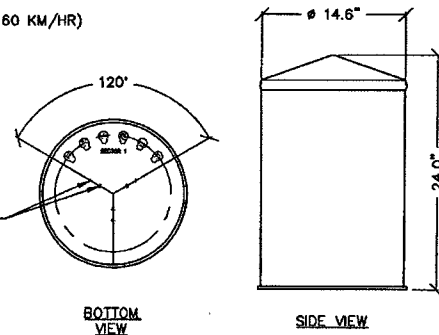
3



AMPHENOL 2C2U3MT360X06FY20 ANTENNA SPECIFICATIONS
INPUT CONNECTOR (2X) 4.3/10 OR 7/16-DIN / FEMALE / BOTTOM
DIMENSION (H x DIA.) 24.0 x 14.6 IN.
ANTENNA WEIGHT 22.1 LBS
LIGHTNING PROTECTION DIRECT GROUND
WIND SURVIVAL SPEED 241 KM/HR - 150 MPH
WIND LOAD @ 100 MPH (160 KM/HR) 191 N - 43 LBF

4" & 6" Ø BCD FOR 3/8"-16 UNC MOUNTING STUDS (X6) AT 120° APART THEY EXTEND 1 1/4" BELOW PLATE FOR MOUNTING

NOTES:
1. CONNECTOR HOLES ARE 2" FROM CENTER TO CENTER APART IN EACH SECTOR



FRONT VIEW

RIGHT SIDE VIEW

BACK PLATE

TOP VIEW

BOTTOM VIEW

SIDE VIEW

STAINLESS STEEL RING BAND

SCALE: NONE

9

ANTENNA DETAIL

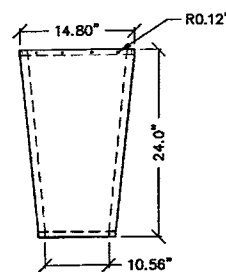
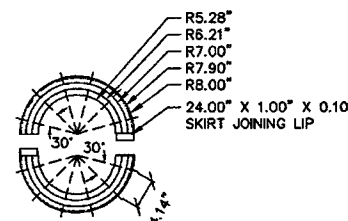
SCALE: NONE

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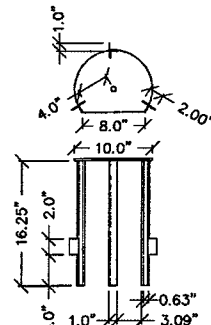
RADIO SHROUD

SCALE: NONE

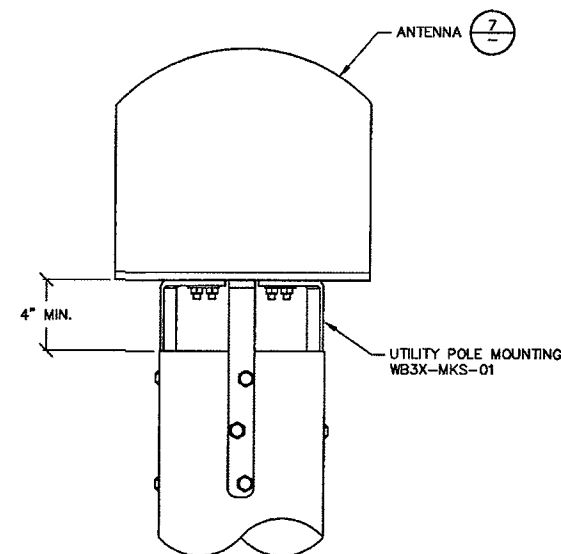
2



FOAM SKIRT



STREET LIGHT POLE INSERT



ANTENNA MOUNTING DETAIL

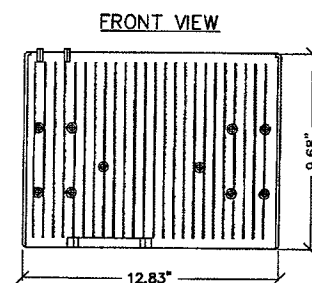
SCALE: NONE

6

NOKIA 20W RADIO

SCALE: NONE

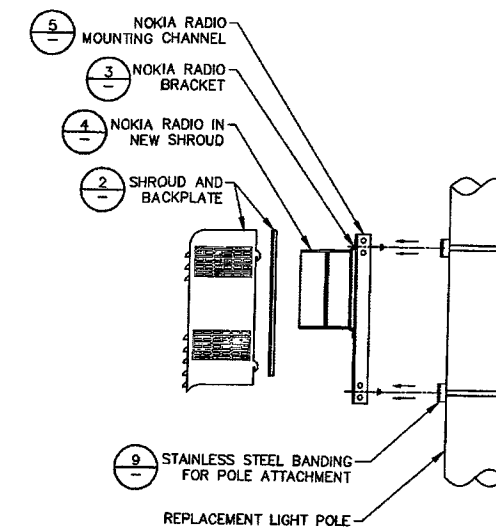
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BOTTOM VIEW

FRONT VIEW

SIDE VIEW



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ANTENNA SHROUD

SCALE: NONE

8

NOKIA 20W RADIO MOUNTING CHANNEL

SCALE: NONE

5

NOKIA 20W RADIO BRACKET

SCALE: NONE

3

SHROUD ASSEMBLY

SCALE: NONE

1

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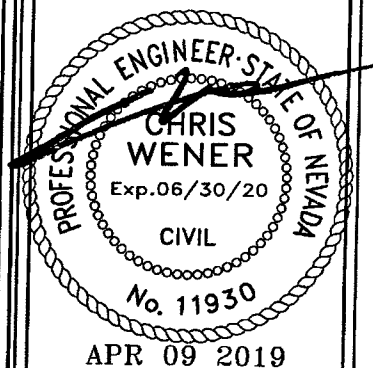
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SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER: REVISION:

C5

2

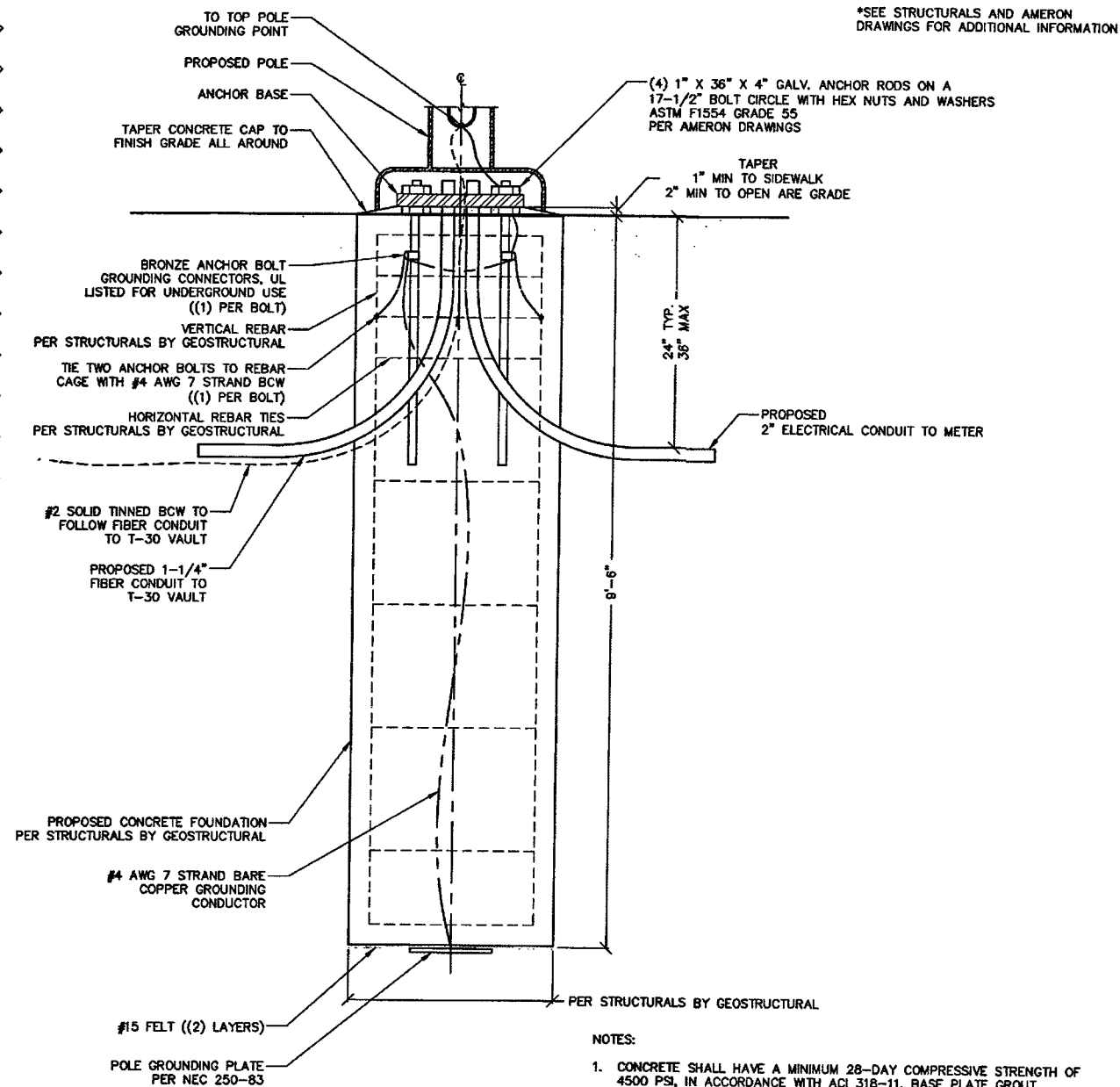
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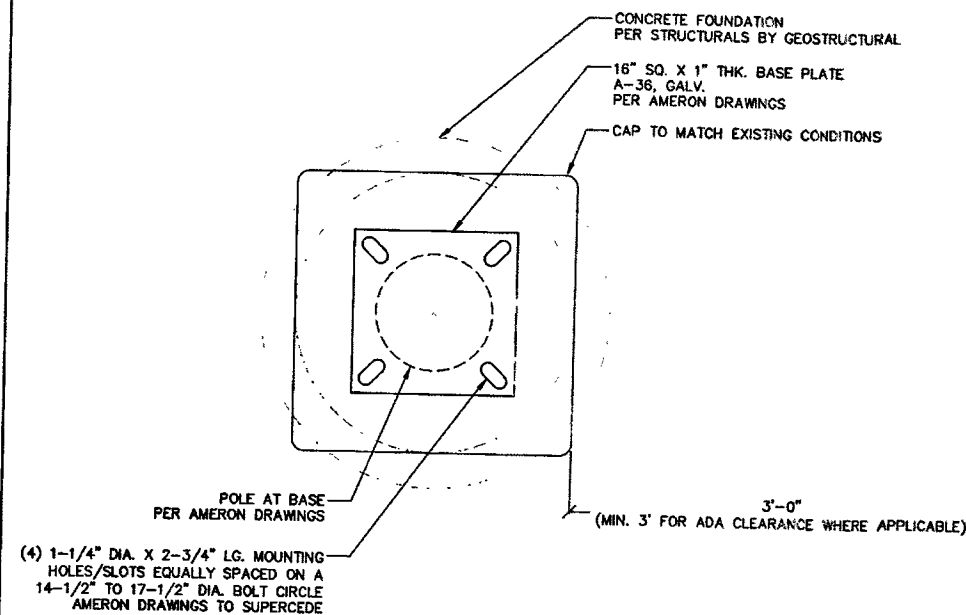
Date
11/22/19

*SEE STRUCTURALS AND AMERON
DRAWINGS FOR ADDITIONAL INFORMATION



NOTES:

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI, IN ACCORDANCE WITH ACI 318-11. BASE PLATE GROUT STRENGTH AT 8000 PSI.
2. USE TYPE V PORTLAND CEMENT AND A MAXIMUM WATER-CEMENT RATIO OF 0.45.
3. REBAR TO CONFORM TO ASTM SPECIFICATION A615 GRADE 60.
4. ALL REBAR TO HAVE A MINIMUM OF 3" CONCRETE COVER.
5. ALL EXPOSED CONCRETE CORNERS TO BE CHAMFERED 3/4".
6. SEE THE GEOTECHNICAL REPORT FOR DRILLED PIER INSTALLATION REQUIREMENTS, IF SPECIFIED.
7. ANCHOR RODS ARE TO BE (4) 1" DIAMETER ASTM F1554 GRADE 55 ON A 17"-1/2" DIAMETER BOLT CIRCLE. MINIMUM LENGTH OF ANCHOR RODS IS 36", WITH A MAXIMUM PROJECTION OF 5" ABOVE CONCRETE. AMERON DRAWINGS TO SUPERCEDE THIS NOTE.



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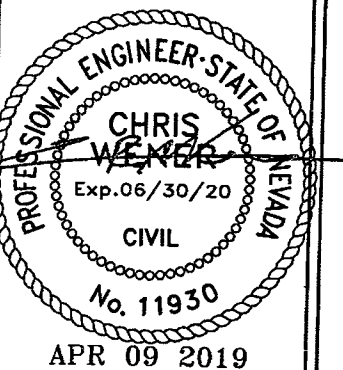
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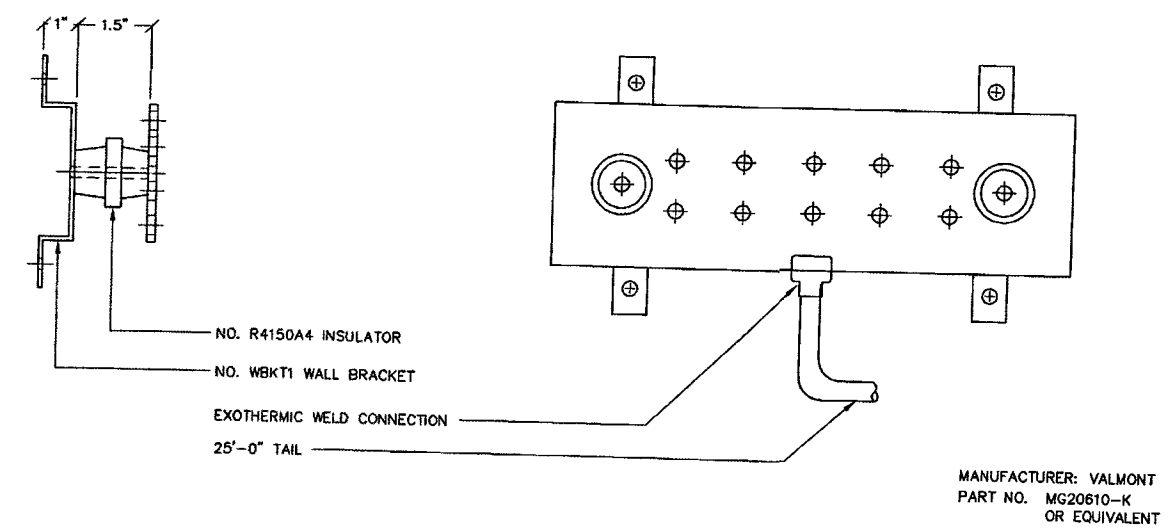
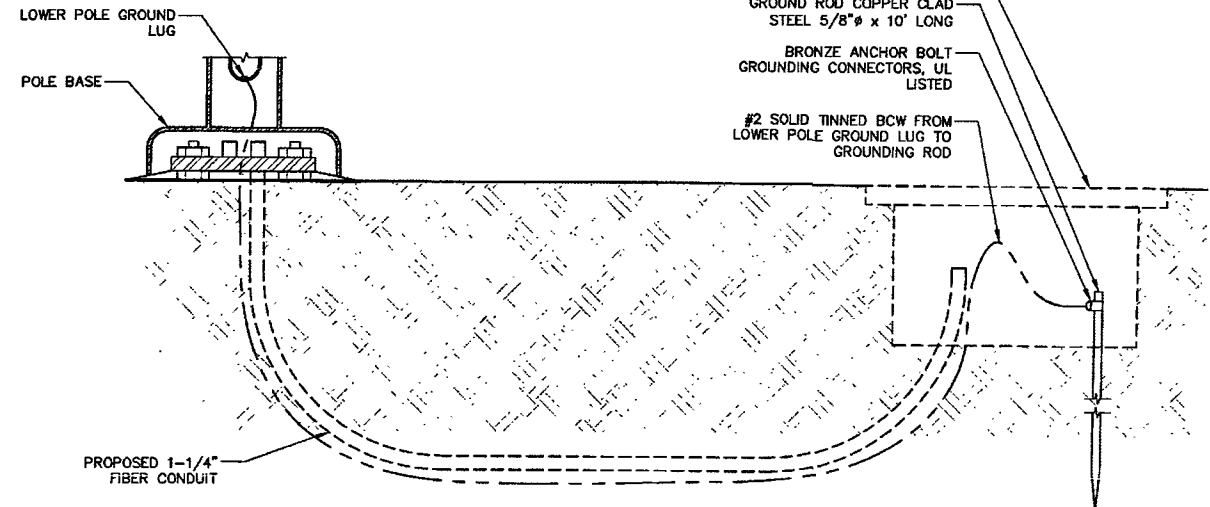


SHEET TITLE:

CONCRETE FOUNDATION
DETAILS

SHEET NUMBER: REVISION:

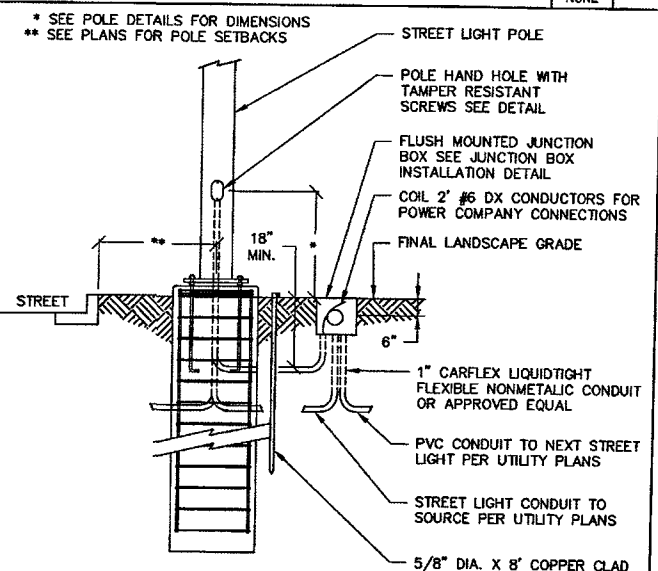
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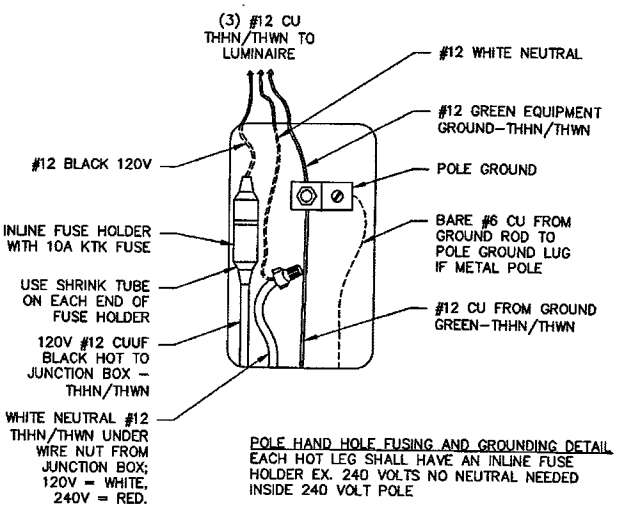
GROUND ROD

SCALE: NONE 4 GROUND BAR

1. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS AND CARRIER GROUNDING STANDARD, 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 BUSS 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 BUSS 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-BARRELED TYPES AND HAVE TWO HOLES FOR CONNECTION TO SURFACE AND NON-OXIDIZING AGENT APPLIED TO INHIBIT CORROSION.



NOTES:
THIS DETAIL IS DIAGRAMMATIC ONLY.
CONTRACTOR SHALL REFER TO POLE DRAWINGS AND CALCULATIONS FOR EXACT DETAIL.



GROUNDING NOTES

SCALE: NONE 5 STREET LIGHT WIRING AND GROUNDING

GROUND BAR

SCALE: NONE 2

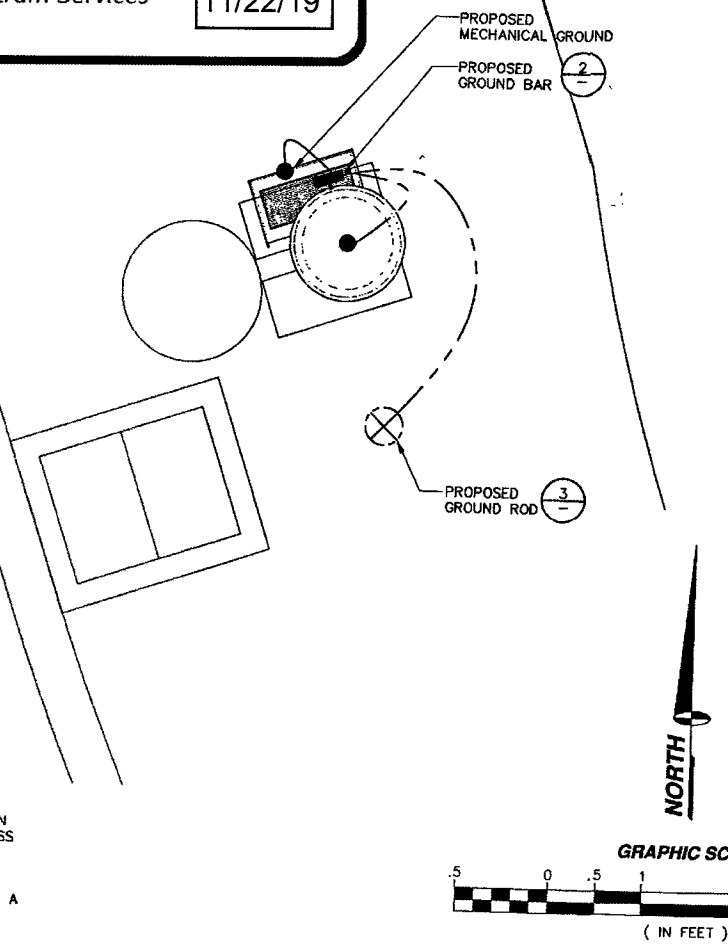
Redlined Construction Drawings

Theresa Sianez

Theresa Sianez Spectrum Services Date 11/22/19

- NOTE:
1. ALL GROUNDING TO BE INSTALLED IN ACCORDANCE WITH VERIZON WIRELESS STANDARD NSTD 46
 2. CONTRACTOR TO MODIFY OR ADD NECESSARY GROUNDING TO PROVIDE A MAX. RESISTANCE OF 5 OHMS

SCALE: NONE 3 GROUNDING LAYOUT



MANUFACTURER: VALMONT
PART NO. MG20610-K
OR EQUIVALENT

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PLANS PREPARED BY:

SPECTRUM

DGS

CONSULTING ENGINEERING SERVICES LLC

LICENSURE:

REGISTERED PROFESSIONAL ENGINEER-STATE OF NEVADA
DEREK G. STEFUREAC
Exp. 06-30-20
ELECTRICAL
No. 17805
APR 09 2019

GROUNDING LAYOUT, NOTES & DETAILS

SHEET NUMBER: E1 REVISION: 2