



ONE PIERCE PLACE SUITE 1100 ITASCA, LLINOIS 60143 OFFICE: (630) 773-1800 FAX: (630) 285-1580

CONSTRUCTION

2011110

PERSONAL COMMUNICATIONS

# PRAIRIE GROVE

DRAWN BY.

Lundy"

CHECKED BY

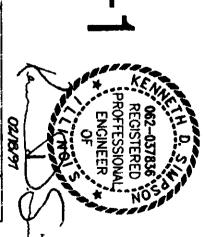
3321 S. ROUTE 31

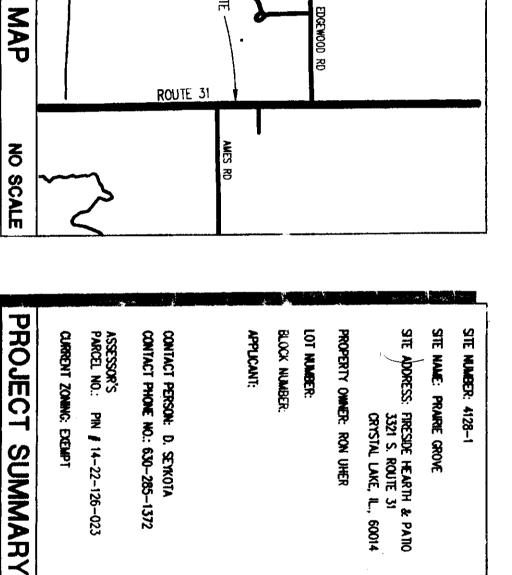
CHY STAL LAKE, ILL. 60014

HAWLAND MONOPOLE

MBER: CGB 4128-1

SITE NU





KRISTEN IR.

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LIGHT POLE

**ELECTRIC BOX** 

CONCRETE

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ASPHALT

(E)MASONRY

(E)BRICK

CROUT OR PLASTER

EXISTING ANTENNAS

NEW ANTENNA

(1)

**YMBOLS** 

AND

MATERIALS

**†** O

SPOT ELEVATION

FND. MONUMENT

PLYM000

SESS.

WOOD CONT.

CRAYE

HXX

JENNY JAE LN

CONCRETE

REVISION

SET POINT

DO NOT SCALE DRAWINGS

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

90 WEST TO RTE. 31 (A DISTANCE OF APPROXIMATELY 14.1 LES FROM RTE. 53) NORTH ON RTE. 31 THROUGH CRYSTAL KE AND BEYOND CORP. LIMITS. TOTAL DISTANCE ON RTE. 3 APPROXIMATELY 14 MILES. PROPERTY IS 1.4 NORTH OF

The second

**ELEVATION** 

DETAIL REFERENCE

CAID REFERENCE

THE STATE

WOOD BLOCKING

SECTIONS & DETAILS

COMMIAL CABLE

GROUND WIRE

DRIVING

**DIRECTIONS** 

MATCH UNE

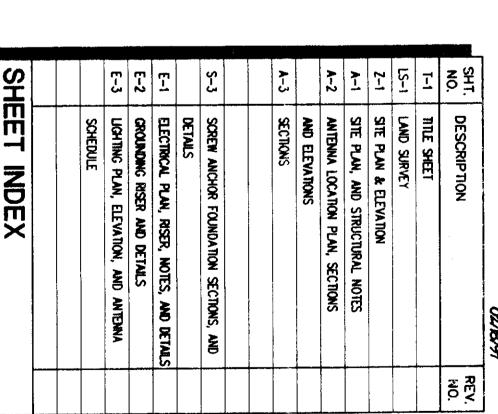
WORK POINT

STEPPED FOOTING

VICINITY

PROPERTY LINE

CENTER LINE



02-21-97

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EXPIRES: 11/31/97	Indensed conductor	
SIGNED: 02/18/97	THE STATE OF THE S	

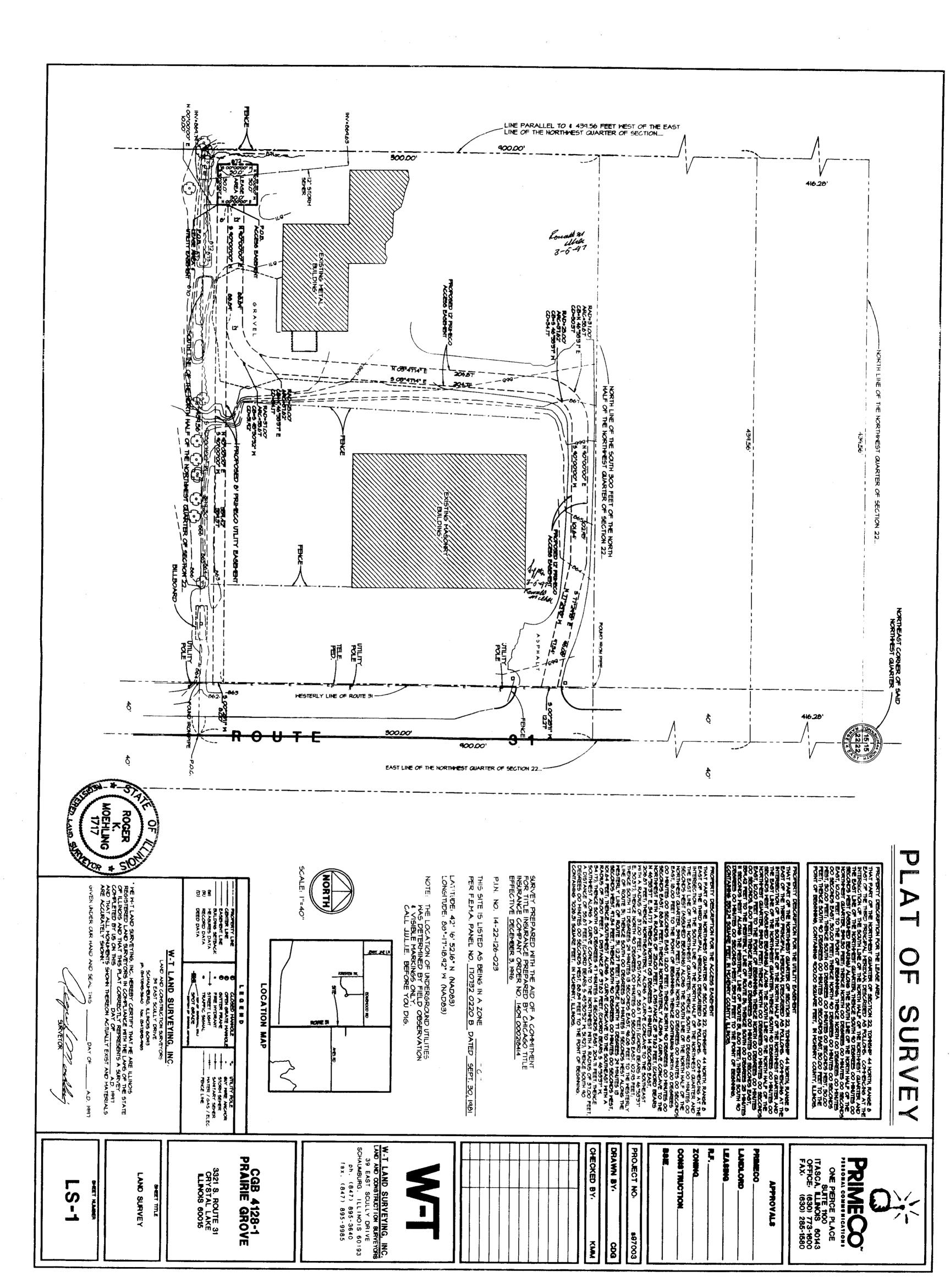
ENGINEER'S

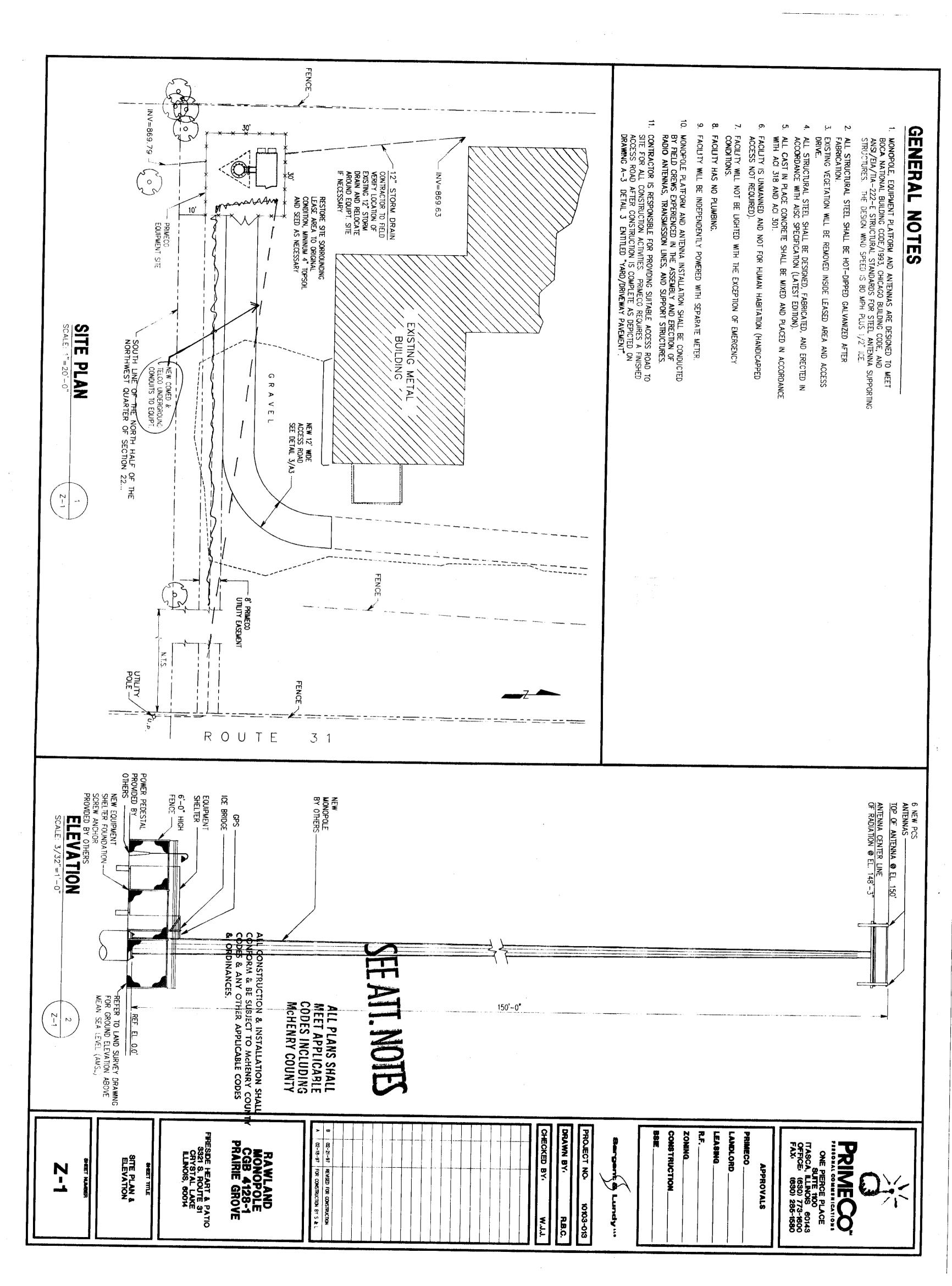
LICENSE

TITLE SHEET

ESIDE HEART & PATIO 8821 S. ROUTE 51 CRYSTAL LAKE ILLINOIS, 60014

RAWLAND MONOPOLE CGB 4128-1 PRAIRE GROVE





## STRUCTURAL NOTES

- 1. THE GENERAL CONTRACTOR AND OR HIS SUBCONSULTANT SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
- PREFER TO THE LAND SURVEY DRAWING PREPARED BY OTHERS FOR BOUNDARY SURVEY AND SITE TOPOGRAPHY.
- 3. DESIGN REQUIREMENTS FOR THE ANTENNA SUPPORTING STRUCTURE ARE PER BOCA NATIONAL BUILDING CODE/1993, CHICAGO BUILDING CODE, AND THE EIA/TIA-222-E STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES. THE BASIC WIND SPEED UTILIZED FOR DESIGN IS 80 MPH PLUS 1/2" ICE.
- CONCRETE FOR FENCE POST AND ICEBRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
- 5. FENCED SITE AREA SHALL BE CLEARED AND GRUBBED. REMOVE UNSUITABLE SOFT OR LOOSE SOILS, ORGANIC MATERIAL AND OR RUBBLE TO FIRM SUBGRADE AS APPROVED BY GEOTECHNICAL REPORT. PLACE A MARIFY 500X SHEET ON SUBGRADE AND FILL WITH 4 INCHES OF AASHTO 57 STONE TO FINISH GRADE.

  6. STRUCTURAL STEEL SHALL CONFORM TO LATEST EDITION OF THE AISC

**NPPROVALS** 

LLINOIS 60143 (630) 773-1600 (630) 285-1580

- STRUCTURAL STEEL SHALL CONFORM TO LATEST EDITION OF THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS— ALLOWABLE STRESS DESIGN INCLUDING THE COMMENTARY AND THE CODE OF STANDARD PRACTICE.
- STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A36.
  ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B.
  ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D.1.1-92 STRUCTURAL WELDING CODE- STEEL WELD ELECTRONICS SHALL BE E70XX.

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- ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLIES SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MINIMUM DIAMETER BEARING TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE. ALL EXPOSED FASTENERS, NUTS AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHERWISE NOTED.
- 10. ALL COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE AS SPECIFIED BY THE OWNER. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES.

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- STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS, AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 5'-0" LEAFS. REFER TO TYPICAL FENCE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.
- NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY TRUE NORTH AND INFORM CONSTRUCTION MANAGER OF ANY DISCREPANCIES BEFORE STARTING CONSTRUCTION.

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- BUILDING/SHELTER FOUNDATION DESIGN IS UNDER SEPARATE CONTRACT BY OTHERS, REFER TO OWNER PROVIDED DRAWINGS.
- MONOPOLE/TOWER FOUNDATION DESIGN IS UNDER SEPARATE CONTRACT BY OTHERS AND IS EXCLUDED FROM THESE DESIGN DRAWINGS. REFER TO OWNER PROVIDED DRAWINGS FOR SPECIFIC DETAILS REGARDING FOUNDATION SYSTEM.

ALL PLANS SHALL MEET APPLICABLE CODES INCLUDING MCHENRY COUNTY

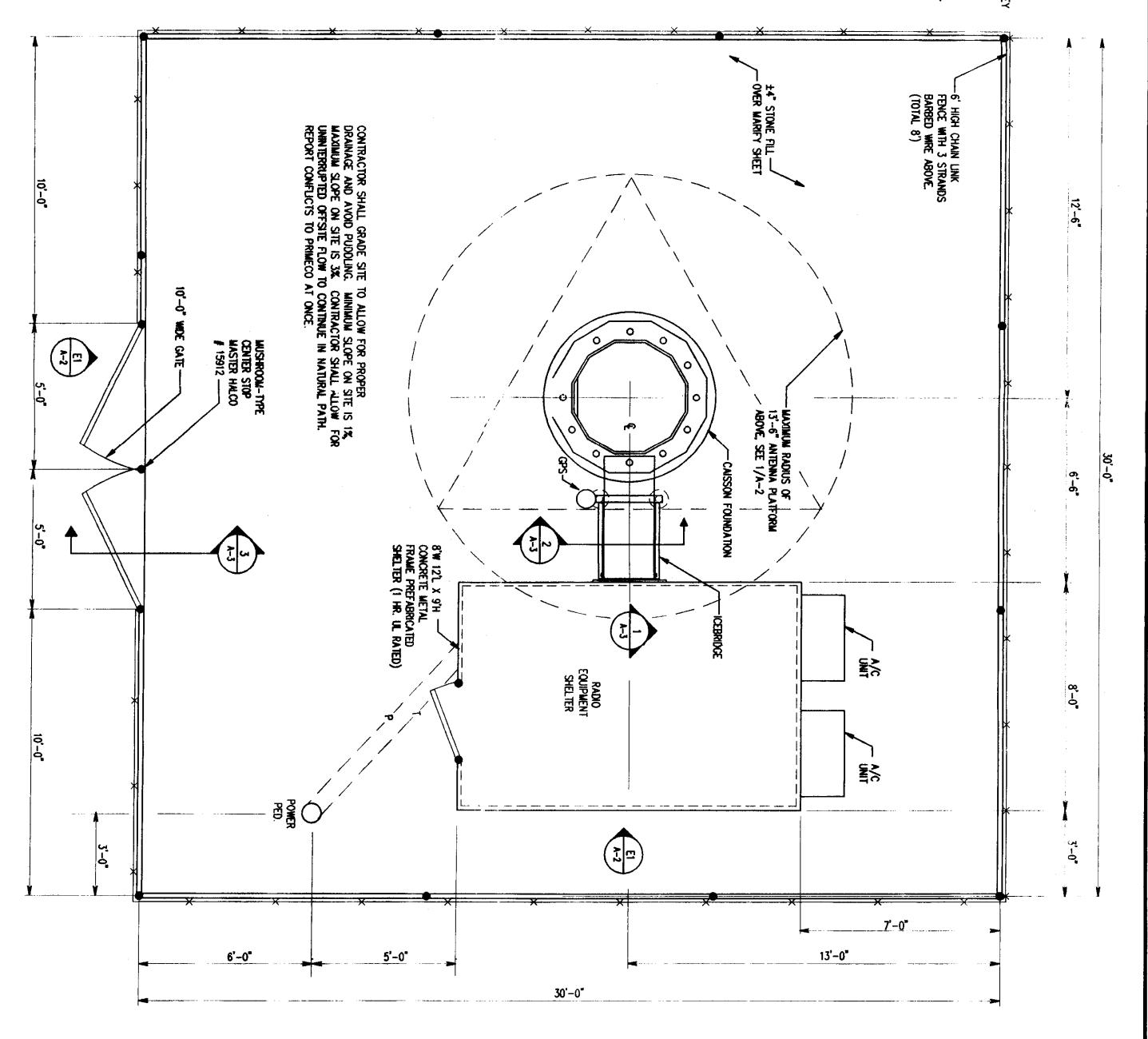
ALL CONSTRUCTION & INSTALLATION SHALL CONFORM & BE SUBJECT TO McHENRY COUNTY CODES & ANY OTHER APPLICABLE CODES & ORDINANCES.

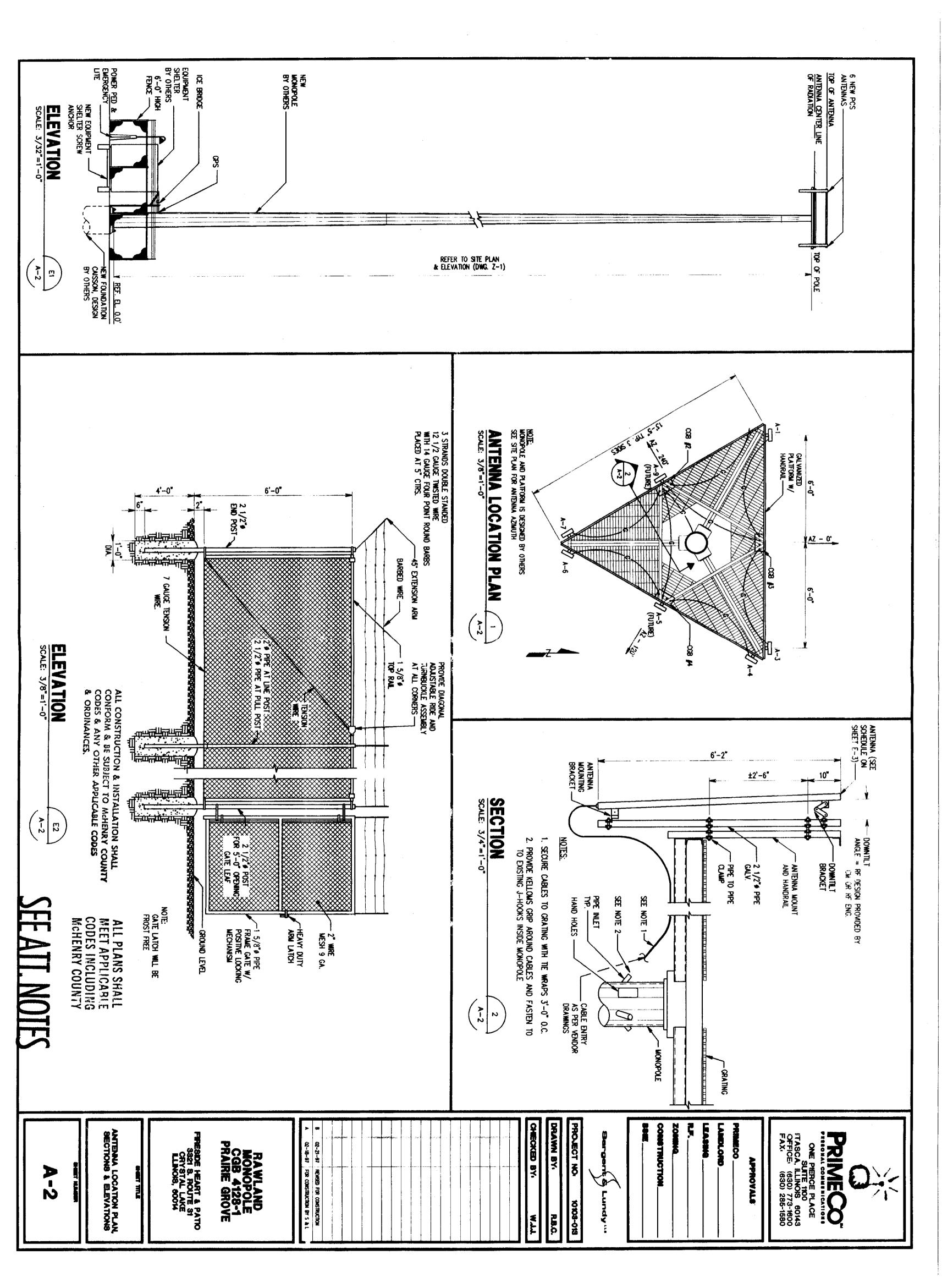
SEE ATT. NOTES

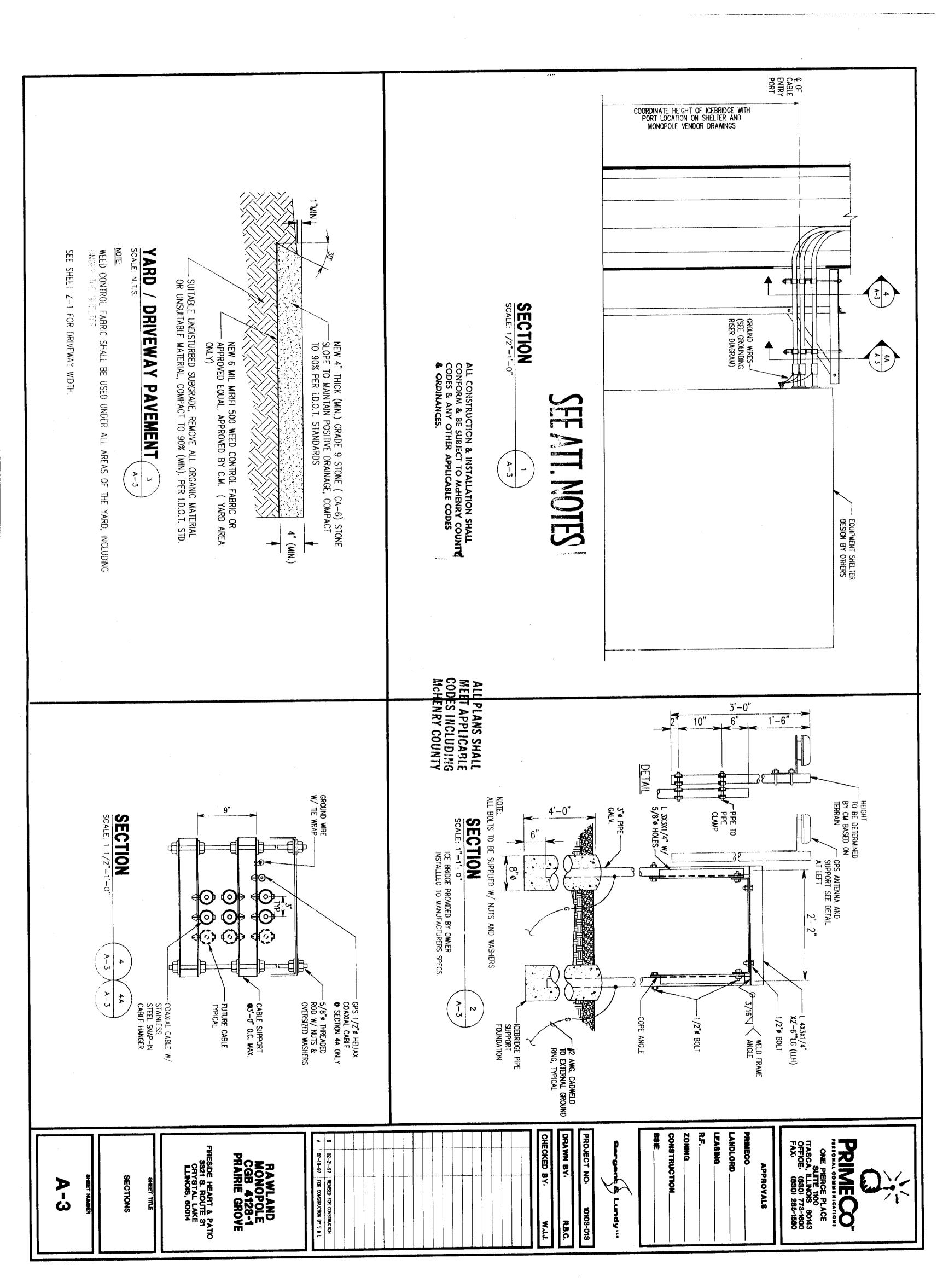
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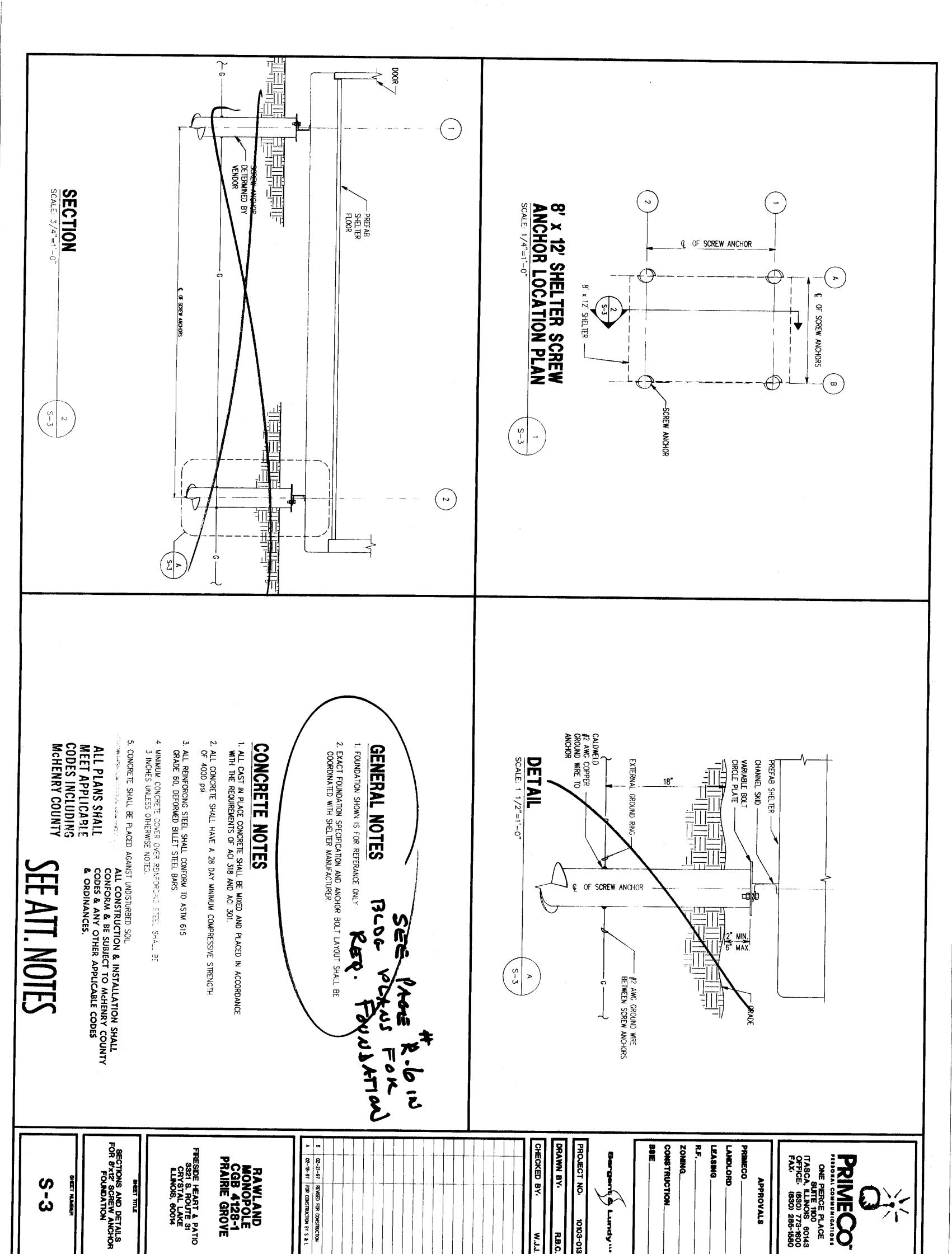
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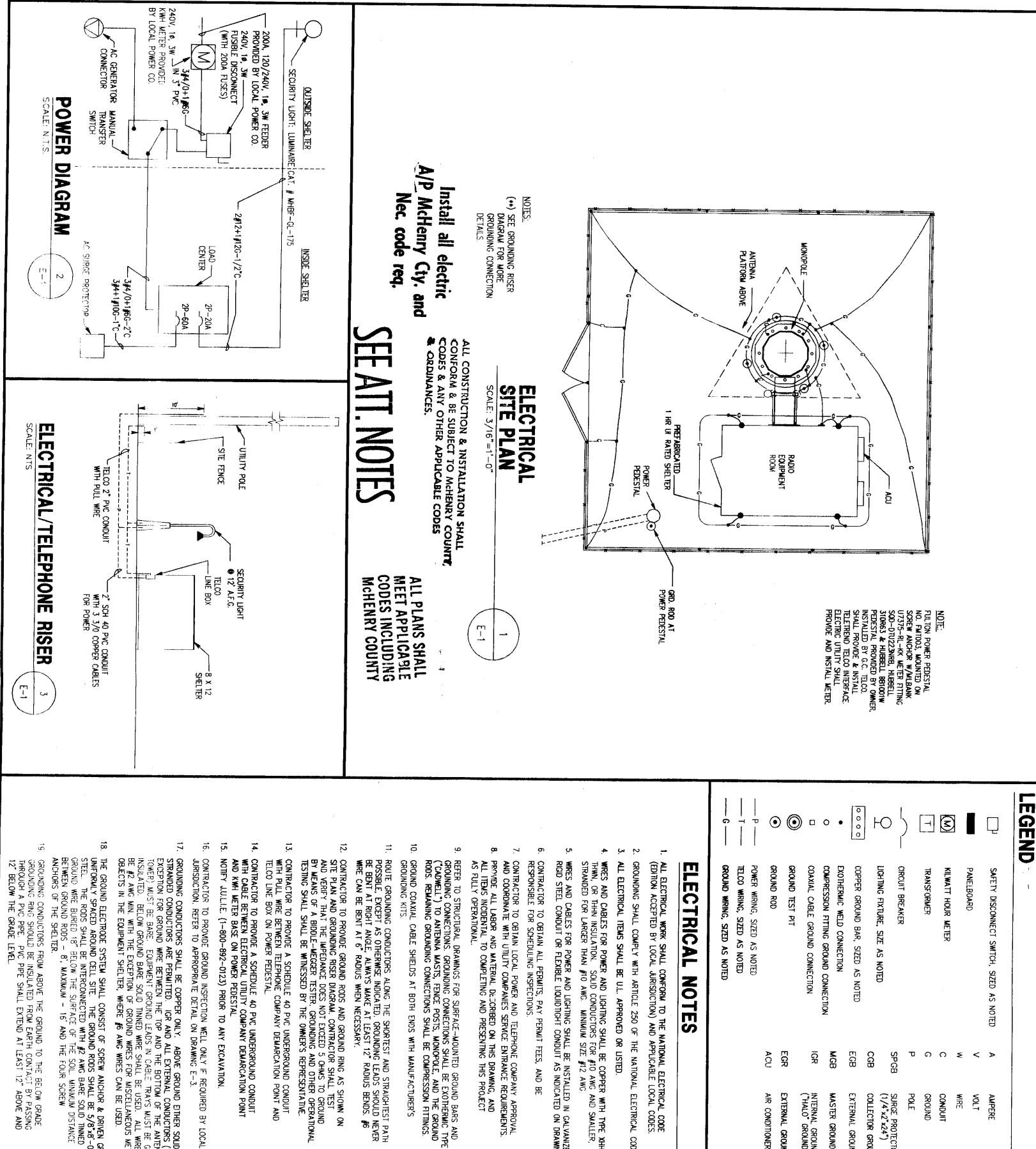
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### GROUND WIRING, SIZED AS NOTED POWER WIRING, SIZED AS NOTED TELCO WIRING, SIZED AS NOTED COAXIAL CABLE GROUND CONNECTION COMPRESSION FITTING GROUND CONNECTION EXOTHERMIC WELD CONNECTION LICHTING FIXTURE, SIZE AS NOTED COPPER GROUND BAR, SIZED AS NOTED SAFETY DISCONNECT SWITCH, SIZED AS NOTED EGR Ŝ MGB EGB ССВ ଚଚ ୧ < ⊳ ACU SPGB U GROUND POLE CONDUIT EXTERNAL GROUND RING INTERNAL GROUND RING ("HALO" GROUND) EXTERNAL GROUND BAR (1/4"x8"x24") COLLECTOR GROUND BAR (1/4"x4"x12") AIR CONDITIONER UNIT MASTER GROUND BAR (1/4"x8"x24") SURGE PROTECTOR GROUND BAR (1/4"x2"x24") ¥RE <u>∑</u> AMPERE

### ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ACCEPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED.

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PROJECT NO

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APPROVALS

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- WIRES AND CABLES FOR POWER AND LIGHTING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN INSULATION. SOLID CONDUCTORS FOR #10 AWG AND SMALLER, STRANDED FOR LARGER THAN #10 AWG. MINIMUM SIZE #12 AWG.
- WIRES AND CABLES FOR POWER AND LIGHTING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT OR FLEXIBLE LIQUIDTIGHT CONDUIT AS INDICATED ON DRAWING
- CONTRACTOR TO OBTAIN ALL PERMITS, PAY PERMIT FEES, AND BE RESPONSIBLE FOR SCHEDULING INSPECTIONS.
- CONTRACTOR TO OBTAIN LOCAL POWER AND TELEPHONE COMPANY APPROVAL AND COORDINATE WITH UTILITY COMPANIES SERVICE ENTRANCE REQUIREMENTS. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- REFER TO STRUCTURAL DRAWINGS FOR SURFACE-MOUNTED GROUND BARS AND GROUNDING CONNECTIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELL") TO ANTENNA MASTS, FENCE POSTS, MONOPOLE, AND THE GROUND RODS. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE, ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY.
- CONTRACTOR TO PROVIDE GROUND RODS AND GROUND RING AS SHOWN ON SITE PLAN AND GROUNDING RISER DIAGRAM. CONTRACTOR SHALL TEST AND VERIFY THAT THE IMPEDANCE DOES NOT EXCEED 5 OHMS TO GROUND BY MEANS OF A BIDDLE-MEGGER TESTER. GROUNDING AND OTHER OPERATIONAL TESTING SHALL SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE.

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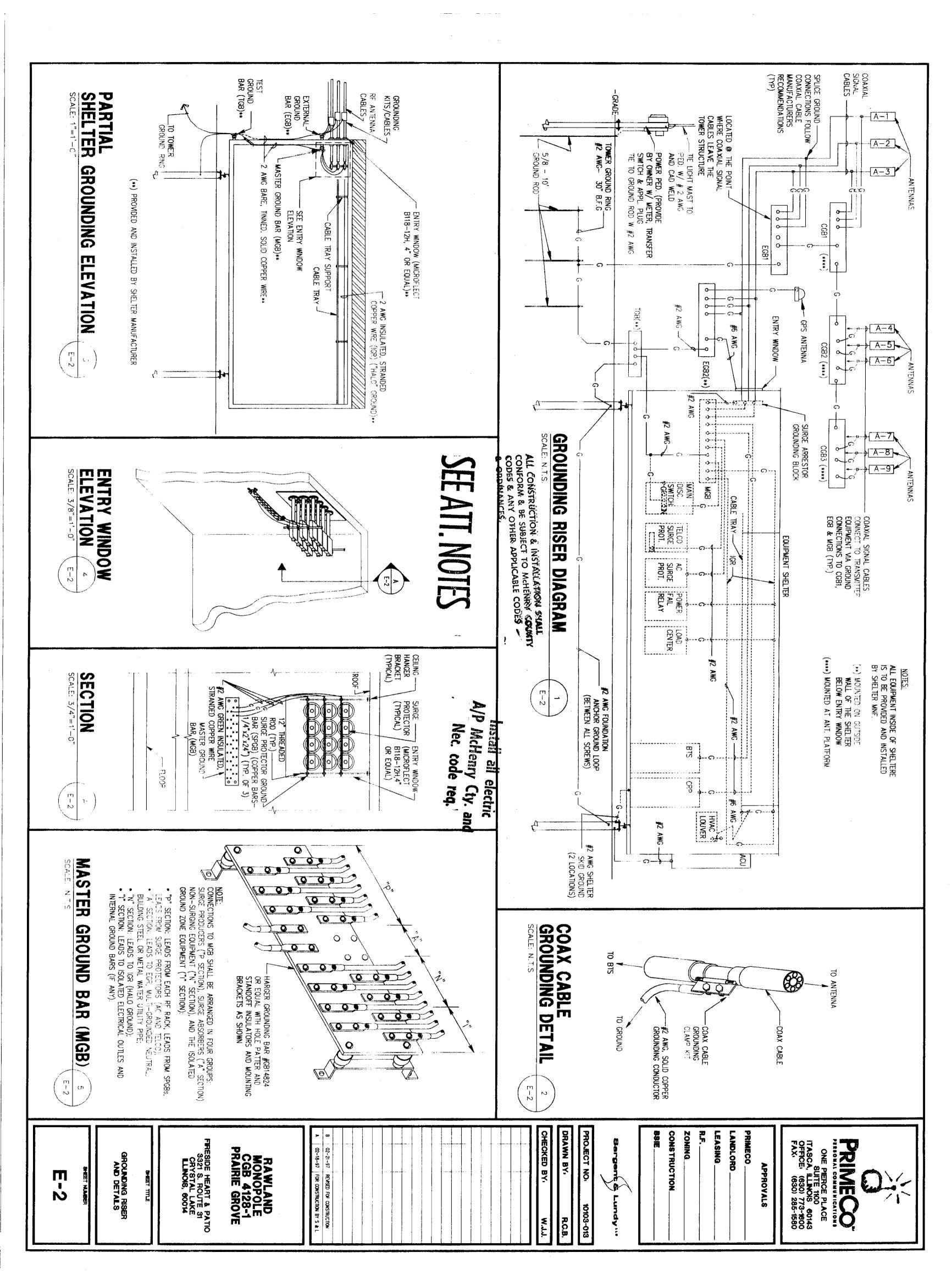
- CONTRACTOR TO PROVIDE A SCHEDULE 40 PVC UNDERGROUND CONDUIT WITH PULL WIRE BETWEEN TELEPHONE COMPANY DEMARCATION POINT AND TELCO LINE BOX ON POWER PEDESTAL
- NOTIFY J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY EXCAVATION.
- GROUNDING CONDUCTORS SHALL BE COPPER ONLY. ABOVE GROUND EITHER SOLID OR STRANDED CONDUCTORS ARE PERMITTED. IGR AND ALL EXTERNAL CONDUCTORS (WITH THE EXCEPTION FOR GROUND WIRE BETWEEN THE TOP AND THE BOTTOM OF THE ANTENNA TOWER) MUST BE BARE. EQUIPMENT GROUND LEADS IN CABLE TRAYS MUST BE GREEN INSULATED. BELOW GROUND BARE SOLID TINNED WIRE SHALL BE USED. ALL WIRES MUST BE #2 AWG MIN. WITH THE EXCEPTION OF GROUND WIRES FOR MISCELLANEOUS METALLIC OBJECTS IN THE EQUIPMENT SHELTER, WHERE #6 AWG WIRES CAN BE USED.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF SCREW ANCHOR & DRIVEN GROUND RODS UNIFORMLY SPACED AROUND CELL SITE. THE GROUND RODS SHALL BE 5/8"x8"-0" COPPER CLAD STEEL. THE RODS SHALL BE INTERCONNECTED WITH #2 AWG BARE SOLID THNNED COPPER GROUND WIRE BURIED 18" BELOW THE SURFACE OF THE SOIL. MINIMUM DISTANCE BETWEEN GROUND RODS 8", MAXIMUM 16" AND THE FOUR SCREW ANCHORS OF THE SHELTER.

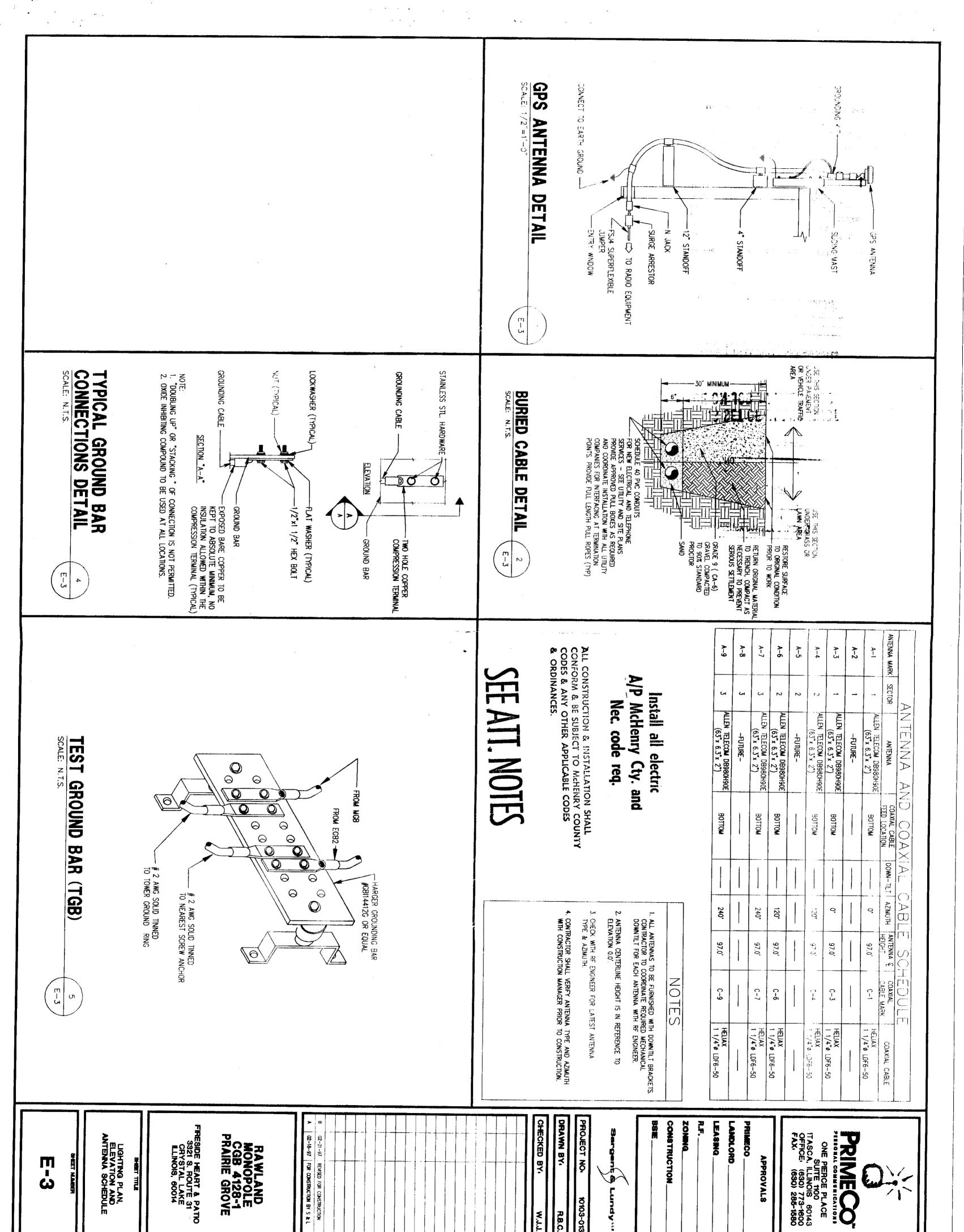
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FIRESIDE HEART & PATIO 3321 S. ROUTE 31 CRYSTAL LAKE ILLINOIS, 60014

ELECTRICAL PLAN, RISER, NOTES AND DETAILS

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