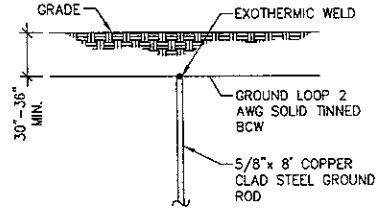
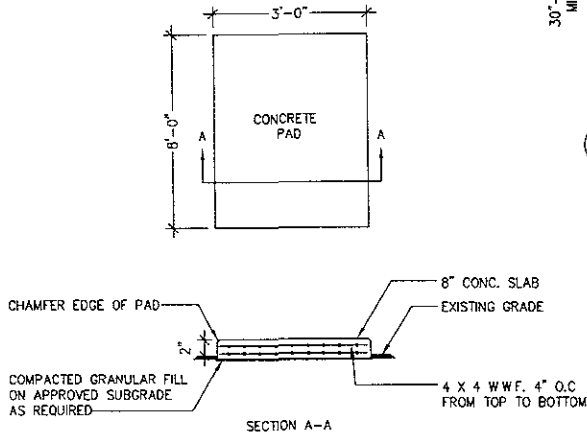


NOTE  
 1 SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS  
 2 PULL STRINGS SHALL BE INSTALLED IN CONDUITS

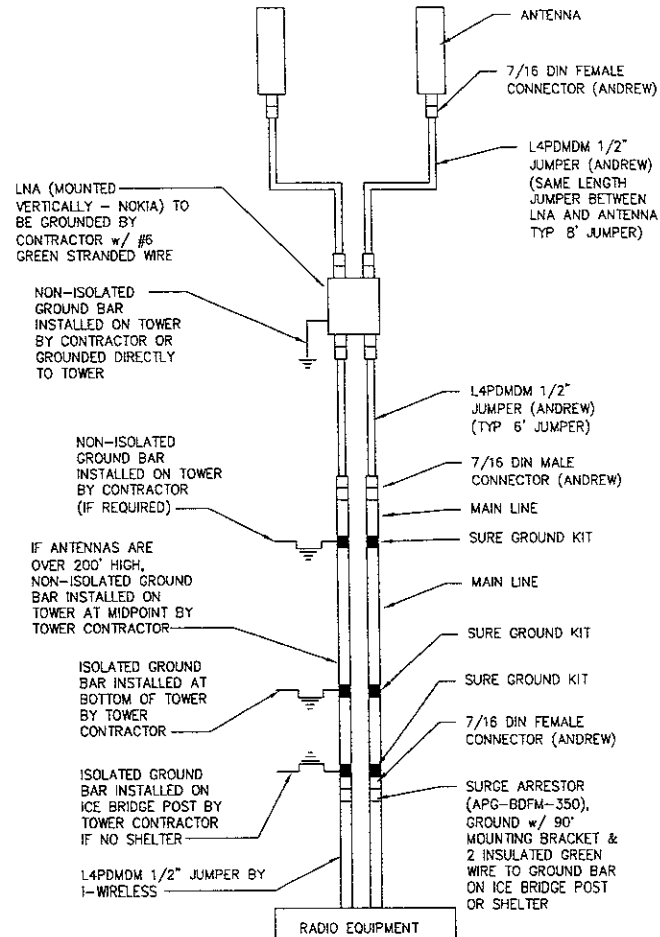
1 JOINT TRENCH ELECTRIC/TELEPHONE  
 SCALE NONE



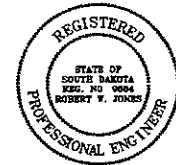
3 GROUND ROD  
 SCALE NONE



2 CONCRETE EQUIPMENT PAD AND DETAIL  
 NOT TO SCALE



4 ANTENNA CABLE AND GROUNDING SCHEMATIC  
 SCALE NONE



**OWNER**  
**SWS LLC.**  
 1300 GRAND BLVD. STE. 100  
 P.O. BOX 68  
 BEEBEAR, SD 57702

**PROJECT MANAGER**  
**i wireless**  
 4150 N.W. URBANDALE DRIVE  
 URBANDALE, IA 50222

EFRAIN  
 SD0253

REVISIONS		
NO.	DATE	DESCRIPTION
▲	07/24/08	SITE SKETCH
▲	09/25/08	1ST SUBMITTAL
▲	01/05/09	2ND SUBMITTAL
▲	01/06/09	3RD SUBMITTAL
▲		
▲		

**M A A S & S O N**

3000 41ST STREET  
 MOORE, IL 61250  
 309-744-7800

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**ROAD AND GROUND PROJECT NUMBER**  
 108318

**SITE TYPE**  
 GOLD MONOPOLE TOWER

**SITE NUMBER**  
 SD0253

**SITE ADDRESS**  
 612 EAST NORTH AVE.  
 RAPID CITY, SD 57709

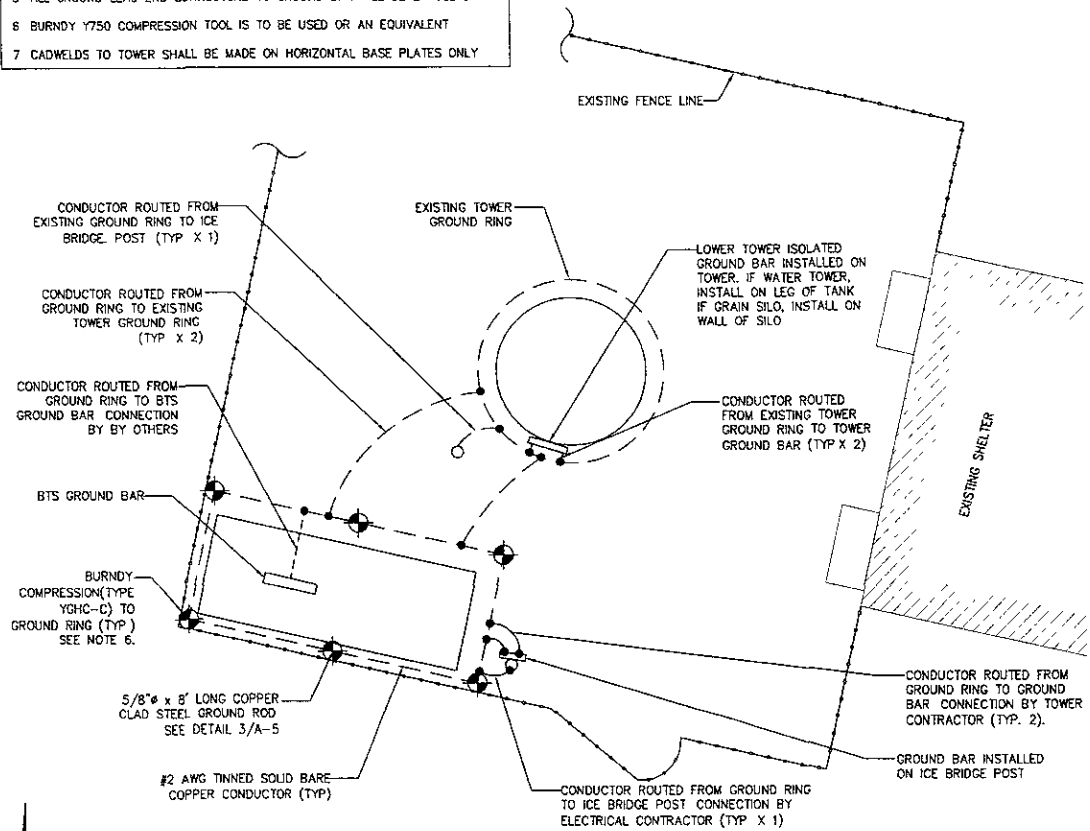
**COUNTY TITLE**

**SITE DETAILS**

**COUNTY NUMBER**

**A-5**

- NOTES**
1. SEE SITE PLAN FOR COMPOUND ORIENTATION & DIMENSIONS
  2. GROUNDING CONDUCTORS SHALL BE 2 AWG TINNED SOLID BARE COPPER INSTALLED 30"-36" BELOW GRADE.
  3. COAXIAL GROUND KITS SHALL BE INSTALLED IN A PROFESSIONAL MANNER FOR APPEARANCE & MAXIMUM WATER SHED
  4. ALL EGR LEADS TO BE SHEATHED IN SEALITE ABOVE GROUND AND SEALED WITH CLEAR CAULK
  5. ALL GROUND LEAD END CONNECTORS TO GROUND BAR WILL BE 2 HOLE LUGS.
  6. BURNDY 1750 COMPRESSION TOOL IS TO BE USED OR AN EQUIVALENT
  7. CADWELDS TO TOWER SHALL BE MADE ON HORIZONTAL BASE PLATES ONLY



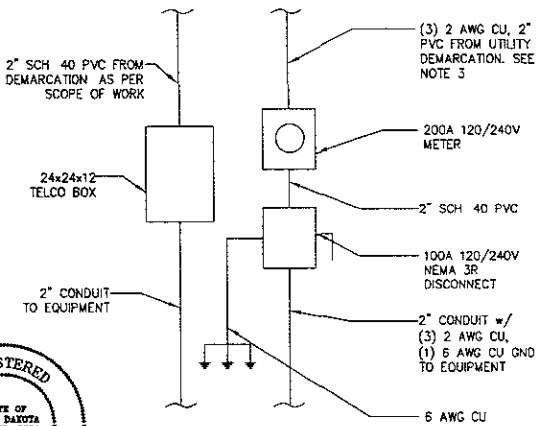
1 COMPOUND GROUNDING PLAN (COLOCATE W/ OUTDOOR EQUIPMENT)  
SCALE NTS

**GENERAL ELECTRICAL NOTES:**

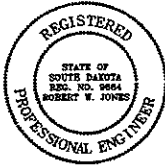
1. SERVICE POWER SHALL BE (120/240VAC, 100A, 1Ø, 3W) OR (120/208VAC, 100A, 1Ø, 3Ø).
2. A 200 AMP, 120/240V, 1Ø METER SOCKET ACCESSIBLE FOR READOUT. THE NUMBER OF JAWS IN THE METER SOCKET AND THEIR ARRANGEMENT WILL DEPEND ON THE VOLTAGE SERVICE
3. CABLE SIZES SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP IF LONGER THAN 180FT. VERIFY CONDUIT SIZE WHEN CHANGING CABLE SIZE
4. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO VENDOR PRINTS PROVIDED BY MANUFACTURER
5. CONDUITS ROUTED BELOW GRADE NEAR ACCESS DRIVE OR WITH/IN COMPOUND SHALL BE SCHEDULE 40 PVC (U.N.O.)
6. PROVIDE LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE COMPLETE INSTALLATION AND OPERATION OF ELECTRICAL WORK
7. CONFORM TO THE REQUIREMENT OF THE RULES, REGULATIONS, AND CODES OF LOCAL, STATE, AND FEDERAL AUTHORITIES HAVING JURISDICTION, AND CONFORM TO THE NATIONAL ELECTRICAL SAFETY CODES, AND NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION LATEST EDITIONS
8. DRAWINGS ARE GENERALLY DIAGRAMMATIC. BENDS, FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN. PROVIDE SUCH ITEMS AS REQUIRED
9. BE RESPONSIBLE FOR VERIFICATION & INSTALLATION OF ELECTRICAL SERVICE. CABLE SIZES & RUNS BASED ON LOCAL CODE REQUIREMENTS & OR NEC (LATEST ENFORCED EDITIONS) CHANGE ORDERS WILL NOT BE ACCEPTED DUE TO LACK OF VERIFICATION

**UTILITY NOTE:**

THE LOCATIONS OF UTILITY MAINS, STRUCTURES, AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE. ALL OF THE ABOVE ARE TO BE VERIFIED WITH POWER/TILCO PROVIDER. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN AND NOT SHOWN ON THIS DRAWING



2 UTILITY ONE LINE DIAGRAM  
SCALE NONE



**OWNER**  
**SWS LLC.**  
180 BRADFORD ST., DR.  
P.O. BOX 68  
GREENBANK, SD 57908

**PROJECT MANAGER**  
**i wireless**  
4135 N.W. URBANDALE DRIVES  
URBANDALE, IA 50222

**EFRAIN**  
SD0253

NO.	DATE	DESCRIPTION
Δ	07/24/08	SITE SKETCH
Δ	09/25/08	1ST SUBMITTAL
Δ	01/05/09	2ND SUBMITTAL
Δ	01/06/09	3RD SUBMITTAL
Δ		
Δ		

**M A A S & S O N**  
3000 41ST. STREET  
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309-744-7850

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**M A A S AND S O N PROJECT NUMBER**  
**108318**  
**SITE TYPE**  
**COLO MONOPOLE TOWER**  
**SITE NUMBER**  
**SD0253**  
**SITE ADDRESS**  
**812 EAST NORTH AVE.**  
**RAPID CITY, SD 57709**  
**SHEET TITLE**  
**GROUNDING PLAN**  
**SHEET NUMBER**  
**E-1**