

NOTES

1. USE ROOF MOUNTED COAX BRIDGE KIT, STRAIGHT SPLICE, & ADJUSTABLE 0'-45' SPLICE.
2. \* - CONTRACTOR TO VERIFY MODEL NO. OF BRIDGE KIT, STRAIGHT SPLICE, & ADJUSTABLE 0'-45' SPLICE WITH QUANTITY OF COAX RUNS
3. USE SNAP-IN HANGERS WITH PVC TUBE SLEEPERS TO SUPPORT ROOF-TOP RUNS OF COAX TRANSMISSION LINES

1 COAX BRIDGE KIT DETAIL  
SCALE NONE

ANTENNA POSITION	COLOR CODING
Rx1	1 RED
Rx1/Tx1	2 RED
Rx2	1 YELLOW
Rx2/Tx2	2 YELLOW
Rx3	1 GREEN
Rx3/Tx3	2 GREEN
Rx4	SEE NOTE 2
Rx4/Tx4	SEE NOTE 2
MW1	
MW2	

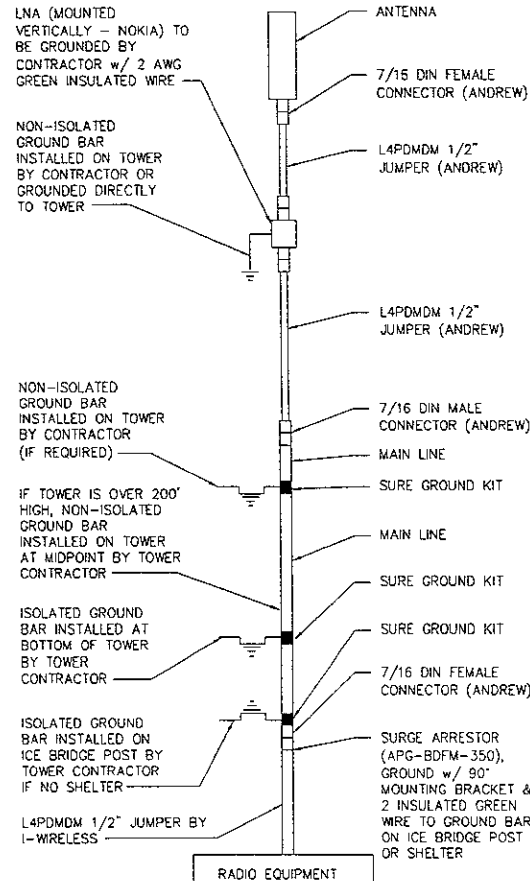
NOTES

1. COLOR BAND TO BE 2" WIDE OF MAIN LINE
2. SPACING TO BE 1" BETWEEN BANDS
3. COLOR BAND ON JUMPERS 1" WIDE W/ 1" SPACE
4. START COLOR BANDS 2" BEYOND WEATHERPROOFING
5. START SECTOR COLOR NEXT TO END CONNECTOR

NOTES

1. CONTRACTOR TO INSTALL ANTENNAS AT CENTERLINE OF AZIMUTH AS INDICATED ON RF CONFIGURATION SHEET. CABLE ROUTING ON, IN, OR ABOUT SUPPORT STRUCTURES TO BE AS DETAILED IN THE TOWER DRAWINGS OR STRUCTURAL ANALYSIS
2. IF FOUR SECTOR IS USED THE SECTOR IS SPLIT WITH ONE OF THE OTHER SECTORS. FOURTH SECTOR COLOR IS BLUE. EXAMPLE MARKING: IF SPLIT WITH SECTOR ONE, RECEIVE WOULD BE 1 RED AND 1 BLUE AND RECEIVE AND TRANSMIT WOULD BE 2 RED AND 2 BLUE. LIKE WISE IF SPLIT WITH SECTORS TWO AND THREE.
3. CONTRACTOR TO VERIFY RF CONFIGURATION WITH I-WIRELESS PROJECT MANAGER PRIOR TO INSTALLATION OF ANTENNAS.

2 COAX IDENTIFICATION  
SCALE NONE



3 ANTENNA CABLE AND GROUNDING SCHEMATIC  
SCALE NONE

**Landmark**  
ENGINEERING GROUP  
400 WEST OF THE CENTER EAST BRIDGE ST. 6344  
F50-1000  
CIVIL ENGINEERING AND LAND SURVEYING  
DESIGN FIRM 505-754-7474 NUMBER 354-090511

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF SOUTH DAKOTA.

MICHAEL R. SHAMSE DATE  
MY LICENSE RENEWAL DATE IS MARCH 31 2010

PRELIMINARY

PROJECT MANAGER

**i wireless**  
#321 N. LINCOLN AVE. S.W.  
ORLANDO, FL 32802

APPLICANT/OWNER:

SWS, LLC  
120 EAST 1st STREET  
PO BOX 48  
KIMBALL, SD 57355

DRAWN BY: CHK BY: APV BY:

KJM SCH MRS

SITE NAME:

FIRST NATIONAL BANK  
ROOFTOP

I-WIRELESS SITE NUMBER

SD0258

SUBMITTALS

REV	DATE	DESCRIPTION

DRAWING TITLE

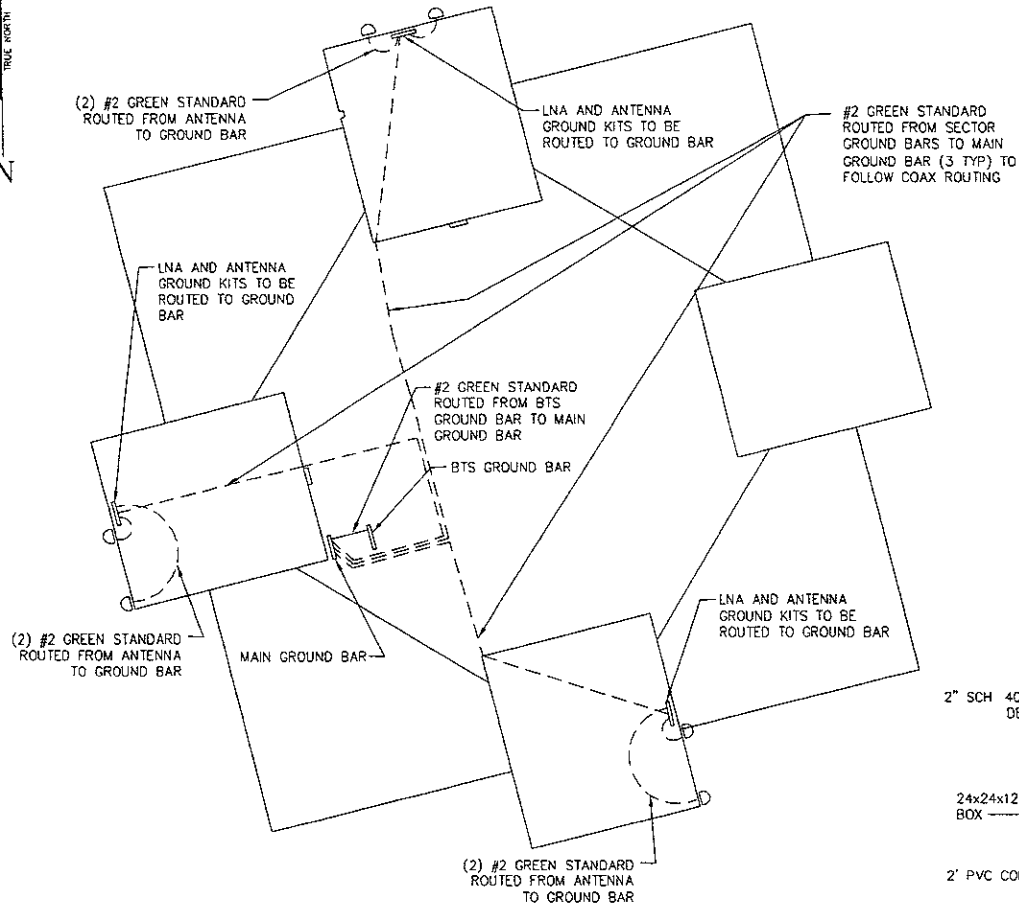
DETAILS

DRAWING NUMBER

A-7

JOB NUMBER

01-08-582



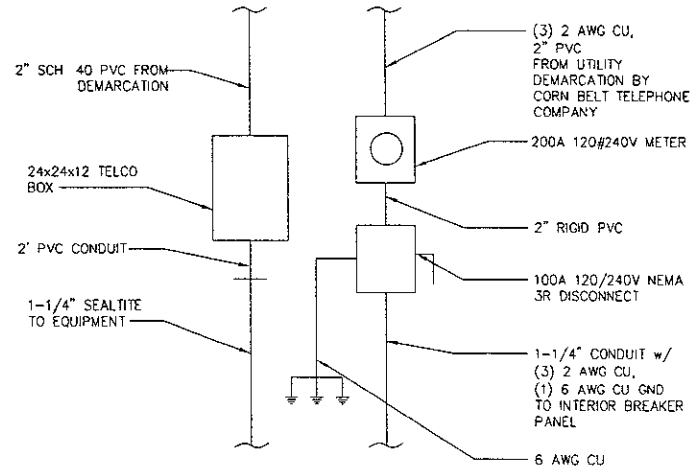
- NOTES
- SEE SITE PLAN FOR COMPOUND ORIENTATION & DIMENSIONS
  - GROUNDING CONDUCTORS SHALL BE 2 AWG TINNED SOLID BARE COPPER INSTALLED 30"-36" BELOW GRADE
  - COAXIAL GROUND KITS SHALL BE INSTALLED IN A PROFESSIONAL MANNER FOR APPEARANCE & MAXIMUM WATER SHED
  - CADWELDS TO BE USED AT (4) FENCE POSTS AND (2) GATE POSTS
  - CADWELDS TO TOWERS SHALL BE MADE ON HORIZONTAL BASE PLATES ONLY

1 COMPOUND GROUNDING PLAN  
SCALE NONE

GENERAL NOTES:

IW-E20

- SERVICE POWER SHALL BE (120/240VAC, 100A, 1Ø, 3W) OR (120/208VAC, 100A, 1Ø, 3W)
- 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
- CABLE SIZES SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP IF LONGER THAN 180FT VERIFY CONDUIT SIZE WHEN CHANGING CABLE SIZE
- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO VENDOR PRINTS PROVIDED BY MANUFACTURER
- CONDUITS ROUTED BELOW GRADE NEAR ACCESS DRIVE OR WITH/IN COMPOUND SHALL BE SCHEDULE 40 PVC (UNO)
- PROVIDE LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR AND INCIDENTAL TO THE COMPLETE INSTALLATION AND OPERATION OF ELECTRICAL WORK
- 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
- DRAWINGS ARE GENERALLY DIAGRAMMATIC BENDS, FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN PROVIDE SUCH ITEMS AS REQUIRED.
- 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



2 UTILITY ONE LINE  
SCALE NONE

**Landmark**  
ENGINEERING GROUP  
100 AVENUE OF THE CITIES SUITE 1000, SIOUX FALLS, SD 57105-0000  
TEL: 605-708-4422 FAX: 605-708-4422  
CIVIL, ELECTRICAL AND LAND SURVEYING  
OSHA REG. NO. 1824-001511

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KJM BCH MRS

SITE NAME: \_\_\_\_\_

FIRST NATIONAL BANK  
ROOFTOP

IWIRELESS SITE NUMBER  
SD0258

SUBMITTALS:

REV	DATE	DESCRIPTION

DRAWING TITLE  
ELECTRICAL  
DETAILS

DRAWING NUMBER  
E-1

JOB NUMBER: \_\_\_\_\_  
01-08-682