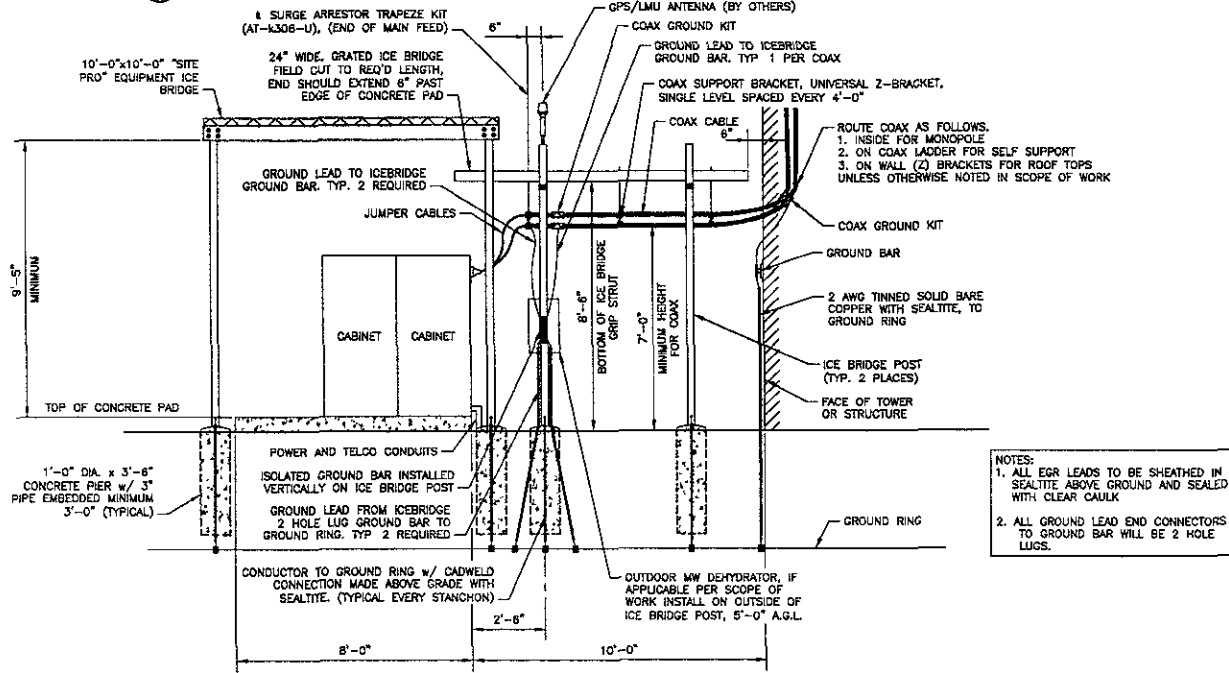


**1 TYPICAL OUTDOOR EQUIPMENT/WAVE GUIDE BRIDGE PLAN**  
SCALE: N.T.S.



**2 TYPICAL OUTDOOR EQUIPMENT/WAVE GUIDE BRIDGE SECTION**  
SCALE: N.T.S.

**ASSOCIATED ENGINEERING, INC**  
2705 N. MAIN STREET  
OMAHA, NE 68022  
PH. (402) 289-5040  
FAX. (402) 289-5045  
AE INC. PROJECT #2408

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

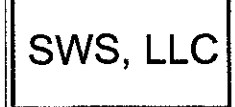
Tom Medhi Date  
MY LICENSE RENEWAL DATE IS JAN. 31, 2011



PROJECT MANAGER



APPLICANT/OWNER



DRAWN BY: CHK BY: APV BY:

BTH/DHF/EQ TM TM

SITE NAME:

**PRIVATE STOCK**

(WIRELESS SITE NUMBER):

**SD0259**

SUBMITTALS:

0	10/4/09	ZONING COMMENTS
0	10/3/09	ZONING COMMENTS
0	10/3/24/09	CLIENT COMMENTS
0	10/3/11/09	FLAG POLE
0	10/3/10/09	CLIENT COMMENTS
0	10/2/23/09	LEASE LOCATION
REV.	DATE	DESCRIPTION

DRAWING TITLE:

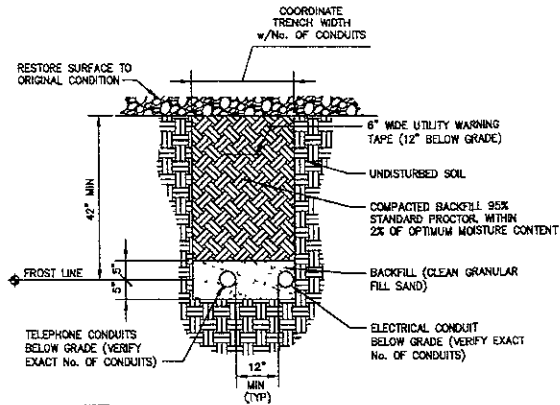
**ICE BRIDGE PLAN & DETAILS**

DRAWING NUMBER:

**C-3**

JOB NUMBER:

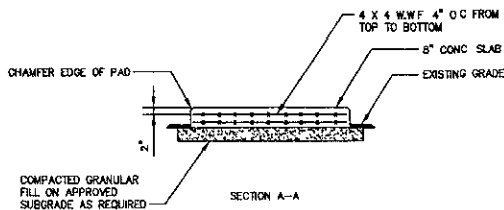
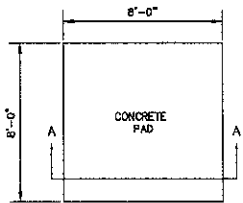
XXXX



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

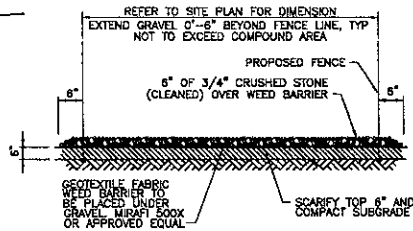
**1 JOINT TRENCH ELECTRIC/TELEPHONE**

SCALE: NONE



**2 CONCRETE EQUIPMENT PAD AND DETAIL**

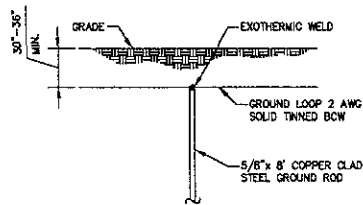
SCALE: NONE



NOTES:  
1. REMOVE TOP 6 - INCHES OF GRADE FROM COMPOUND.  
2. SCARIFY TOP 6 - INCHES AND COMPACT SUBGRADE

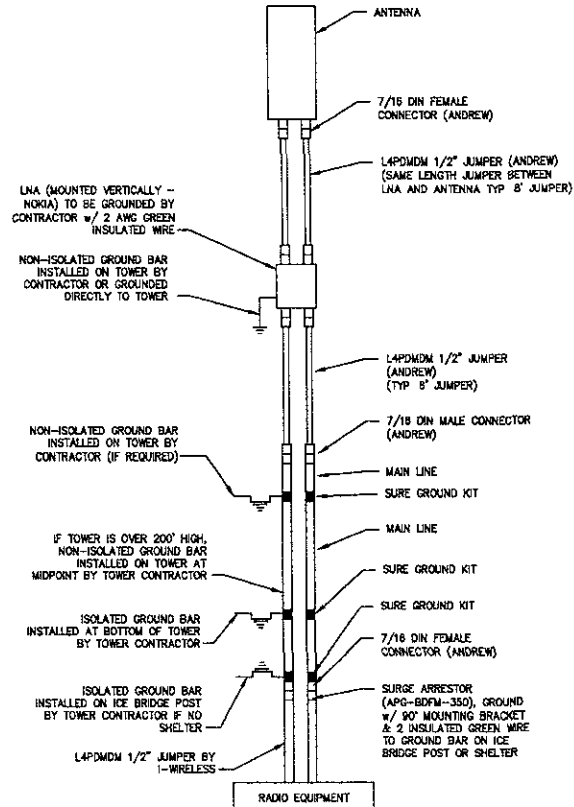
**3 SITE COMPOUND GRAVEL DETAIL**

SCALE: NTS



**4 GROUND ROD**

SCALE: NONE



**5 ANTENNA CABLE AND GROUNDING SCHEMATIC**

SCALE: NONE

**ASSOCIATED ENGINEERING, INC**  
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Tom Medhi Date  
BY LICENSE NUMBER, DATE IS JAN. 21, 2011



PROJECT MANAGER:



APPLICANT/OWNER:



DRAWN BY: CHK BY: APV BY:

BTH/DHF/EQ TM TM

SITE NAME:



WIRELESS SITE NUMBER:



SUBMITTALS:

REV.	DATE	DESCRIPTION
0	04/03/09	ZONING COMMENTS
0	03/26/09	ZONING COMMENTS
0	03/24/09	CLIENT COMMENTS
0	03/17/09	CLIENT COMMENTS
0	03/10/09	CLIENT COMMENTS
0	02/23/09	LEASE LOCATION

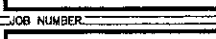
DRAWING TITLE:



DRAWING NUMBER:



JOB NUMBER:



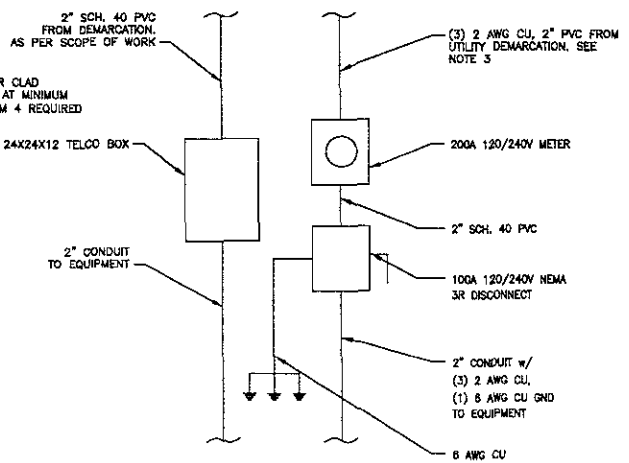
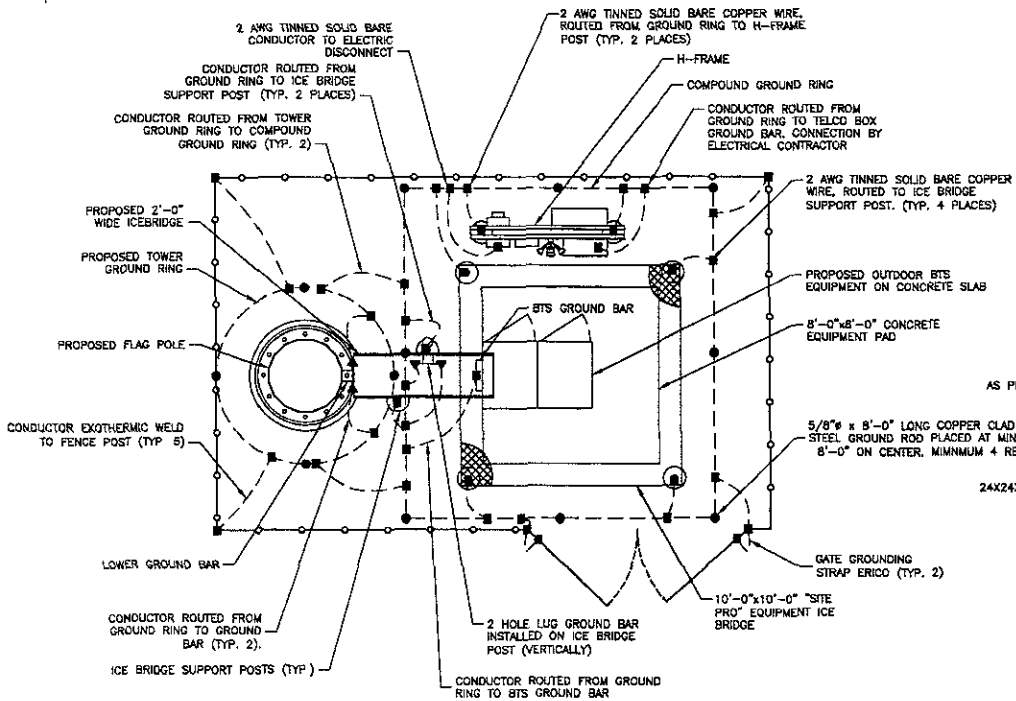
- NOTES:**
- SEE SITE PLAN FOR COMPOUND ORIENTATION & DIMENSIONS
  - GROUNDING CONDUCTORS SHALL BE 2 AWG TINNED SOLID BARE COPPER INSTALLED 30"-35" BELOW GRADE.
  - COAXIAL GROUND KITS SHALL BE INSTALLED IN A PROFESSIONAL MANNER FOR APPEARANCE & MAXIMUM WATER SHED
  - ALL EGR LEADS TO BE SHEATHED IN SEALTITE ABOVE GROUND AND SEALED WITH CLEAR CAULK
  - ALL GROUND LEAD END CONNECTORS TO GROUND BAR WILL BE 2 HOLE LUGS.

GROUNDING LEGEND	
SYMBOL	DESCRIPTION
●	5/8" DIAMETER x 8'-0" COPPER CLAD STEEL GROUND ROD w/APPROVED GROUNDING CONNECTION
---	WIRE ROUTED UNDERGROUND
---	WIRE ROUTED ABOVE GROUND
▲	MECHANICAL TYPE CONNECTION (2 HOLE LUG)
■	EXOTHERMIC TYPE CONNECTION (GADWELD)

**NOTES:**  
ALL CONNECTIONS SHOULD BE MADE BELOW GRADE.

- GENERAL ELECTRICAL NOTES:**
- 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 150FT. 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 (U.N.O.)
  - 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

**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/TELCO PROVIDER. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN AND NOT SHOWN ON THIS DRAWING



**1 EQUIPMENT GROUND PLAN**  
SCALE: NTS

**2 UTILITY ONE LINE DIAGRAM**  
SCALE: NTS

**ASSOCIATED ENGINEERING, INC**  
2705 N. MAIN STREET  
OMAHA, NE 68122  
PH: (402) 289-5040  
FAX: (402) 289-5045  
AE INC PROJECT #2408

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

Tom Medhi Date  
BY LICENSE NUMBER DATE 28 APR 31, 2011



PROJECT MANAGER



APPLICANT/OWNER

**SWS, LLC**

DRAWN BY: CHK BY: APY BY:

BTH/DHF/EQ TM TM

SITE NAME

**PRIVATE STOCK**

WIRELESS SITE NUMBER:

**SD0259**

SUBMITTALS:

REV	DATE	DESCRIPTION
0	04/03/08	ISSUING COMMENTS
0	03/28/08	ZONING COMMENTS
0	03/24/08	CLIENT COMMENTS
0	03/11/08	FLAG POLE
0	03/10/08	CLIENT COMMENTS
0	02/23/08	LEASE LOCATION

DRAWING TITLE:

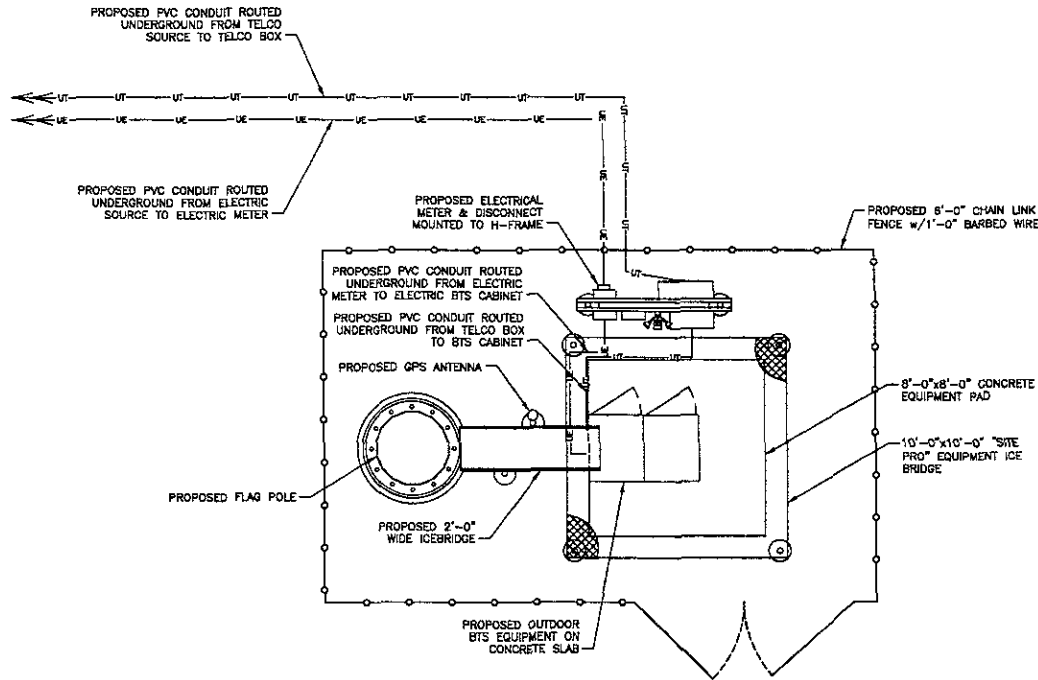
**ELECTRICAL DETAILS**

DRAWING NUMBER:

**E-1**

JOB NUMBER:

XXXX



1 UTILITY PLAN  
SCALE NONE

**ASSOCIATED ENGINEERING, INC**  
 2705 N. MAIN STREET  
 OMAHA, NE 68022  
 PH. (402) 288-5040  
 FAX: (402) 288-5045  
 AE INC. PROJECT #2408

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

Tom Medhi Date  
 MY LICENSE EXPIRES DATE IS JAN. 31, 2011



PROJECT MANAGER:



APPLICANT/OWNER:

**SWS, LLC**

DRAWN BY: CHK BY: APV BY:  
 BTH/DHF/EQ TM TM

SITE NAME:

**PRIVATE STOCK**

WIRELESS SITE NUMBER:

**SD0259**

SUBMITTALS:

0	04/03/09	ZONING COMMENTS
0	03/26/09	ZONING COMMENTS
0	03/24/09	CLIENT COMMENTS
0	03/11/09	FLAG POLE
0	03/10/09	CLIENT COMMENTS
0	02/23/09	LEASE LOCATION
REV.	DATE	DESCRIPTION

DRAWING TITLE:

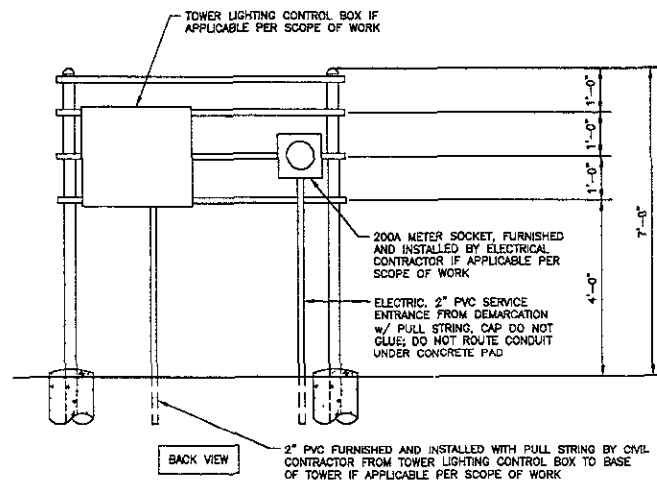
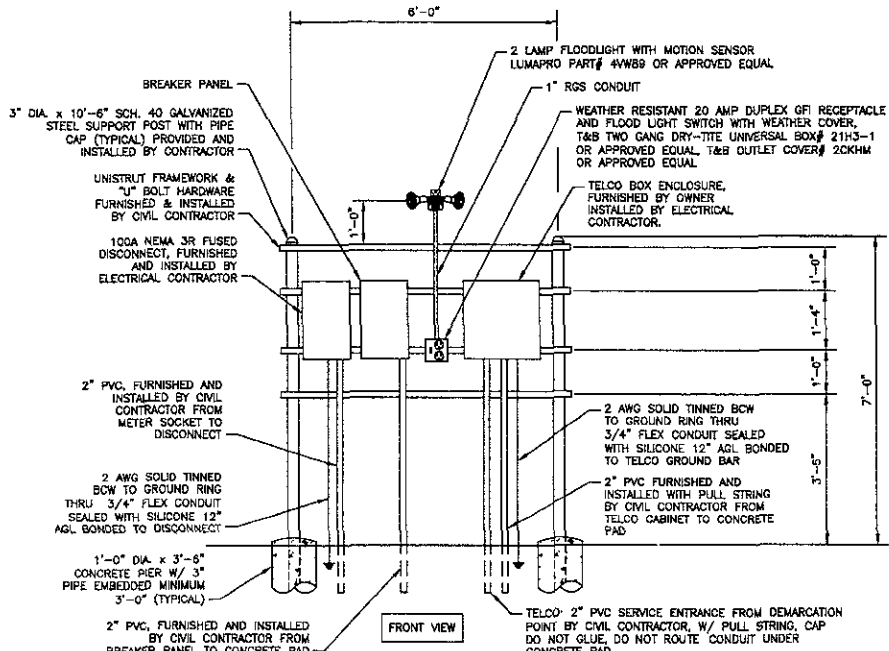
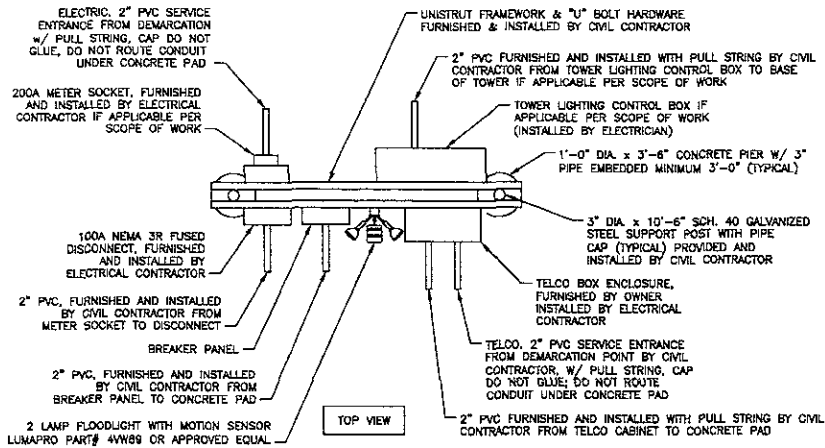
**UTILITY DETAILS**

DRAWING NUMBER:

**E-2**

JOB NUMBER:

XXXX



**1 METAL H-FRAME, SINGLE METER SETTING, TOWER LIGHTING, NO MW**  
SCALE: NONE

**ASSOCIATED ENGINEERING, INC**  
2705 N. MAIN STREET  
OMAHA, NE 68102  
PH: (402) 288-5040  
FAX: (402) 288-5045  
AE INC. PROJECT #2408

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

Tom Medhi Date: 06/21/2011  
BY LICENSE NUMBER: 00164



PROJECT MANAGER:

**i wireless**  
4525 N. UNIVERSITY AVENUE  
SIOUX FALLS, SD 57105

APPLICANT/OWNER:

**SWS, LLC**

DRAWN BY: CHK BY: CAP BY:

BTH/DHF/EC TM TM

SITE NAME:

**PRIVATE STOCK**

WIRELESS SITE NUMBER:

**SD0259**

SUBMITTALS:

REV	DATE	DESCRIPTION
0	04/03/08	ZONING COMMENTS
0	03/26/08	ZONING COMMENTS
0	03/24/08	CLIENT COMMENTS
0	03/11/08	FLAG POLE
0	03/10/08	CLIENT COMMENTS
0	02/03/08	LEASE LOCATION

DRAWING TITLE:

**UTILITY DETAILS**

DRAWING NUMBER:

**E-3**

JOB NUMBER:

XXXX