



ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

ADDENDUM

PROJECT: University of South Dakota
Verizon Transformer
Vermillion, South Dakota

ADDENDUM NUMBER

AD-1

ISSUED BY:

Kori Aaker, Electrical Engineer

PROJECT #: 14-0119

DATE ISSUED: Wednesday, July 16, 2014

This addendum is issued by the Architect to all known bidders before receipt of proposals, for the purpose of explaining, interpreting, or modifying the original plans and specifications. When enumerated by the bidder upon the proposal sheet, the information or instructions given hereon will be equally binding upon all parties as if included in the original plans and specifications.

BIDDER MUST ENTER THE NUMBER OF THIS ADDENDUM ON HIS PROPOSAL SHEET

THE FOLLOWING ITEMS ARE APPLICABLE TO THE SPECIFICATIONS:

AD-1, ITEM 1:

In reference to Specification 260513, revise 1.1 Summary as follows:

1.1 SUMMARY

- A. This specification is for 15kV ethylene propylene insulated URD type power cable with concentric neutral and insulating jacket.
- B. Cable is intended for use on a 15kV grounded wye system and shall be suitable for direct burial or raceway installation.

AD-1, ITEM 2:

In reference to Specification 26 05 13, revise Article 2.3 Cables as follows:

2.3 CABLES

- A. Comply with UL 1072, AEIC CS8, ICEA S-93-639/NEMA WC 74, and ICEA S-97-682.
- B. Central Conductor: Stranded-Copper – central copper conductors shall be annealed uncoated compact copper in accordance with ASTM B3.
- C. Strand Filling: Conductor interstices are filled with impermeable compound.

- D. Conductor shield: an extruded insulating or semi-conducting shield meeting the applicable requirements of Part 3 of ANSI/ICEA S-94-649 shall be provided. The minimum point thickness shall be in accordance with Table 3-1.
- E. Conductor Insulation: Ethylene-propylene rubber.
 - 1. Voltage Rating: 15 kV.
 - 2. Insulation Thickness: 133 percent insulation level.
- F. Insulation Shielding: a semi-conducting layer meeting the requirements of section 5 of ANSI/ICEA S-94-649 shall be extruded tightly over the insulation to serve as an electrostatic shield. The shield compound shall be compatible with the insulation. The shielding shall be applied such that all conducting material can be easily removed without externally applied heat. Insulation shielding shall meet all applicable tests of Table 9-5 of ANSI/ICEA S-94-649.
- G. Concentric Neutral: concentric neutral of annealed copper wires shall be spirally wound over the insulation shielding with uniform spacing between wires, in accordance with ASTM B3. Concentric neutral shall be (11) #14, round, Cu. The length of lay of the neutral wires shall not be more than 8 times the diameter of the concentric wires.
- H. Outer Jacket: an insulating black linear low density polyethylene layer meeting the requirements of ANSI/ICEA S-94-649, Table 7-1 shall be extruded directly over the insulation shield and concentric neutral wires. The jacket shall fill the interstice area, leaving no voids. The jacket shall be applied such that the neutral wires are equally spaces and they shall remain in intimate contact with the underlying extruded insulation shield. The jacket shall be free stripping from the insulation shield and neutral wires without applying external heat the minimum and maximum thickness at any point of the jacket over metallic neutral wires or straps shall be per ANSI/ICEA S-94-649, Table 7-10.

THE FOLLOWING ITEMS ARE APPLICABLE TO THE DRAWINGS:

AD-1, ITEM 3:

In reference to Sheet E-101, Electrical Site Plan is not to scale. See attached E-101.1 for approximate distances. Also, refer to specification 26 01 00 1.2A for Site Visitation requirement.

AD-1, ITEM 4:

In reference to Sheet E-101, revise Electrical Keyed Note '2' to: "Provide one empty 2" PVC conduit with pull string from secondary of transformer to location shown. Cap end of conduit and mark location. Conduit shall be buried a minimum of 36". Refer to detail '2' note '3' for additional information."

AD-1, ITEM 5:

In reference to Sheet E-101, Detail 2: move note '5' symbol to new transformer concrete pad.

AD-1, ITEM 6:

In reference to Sheet E-101, Detail 2: 'New transformer' secondary voltage shall be 120/240, 1 phase, 3 wire.

AD-1, ITEM 7:

In reference to Sheet E-101, Detail 2: Refer to note '4', revise as follows: "Provide new feeder between new transformer and existing sectionalizing cabinet. New feeder shall match existing feeder (4/0 Cu. with concentric neutral). Existing feeder information from existing plans is as follows (field verify):

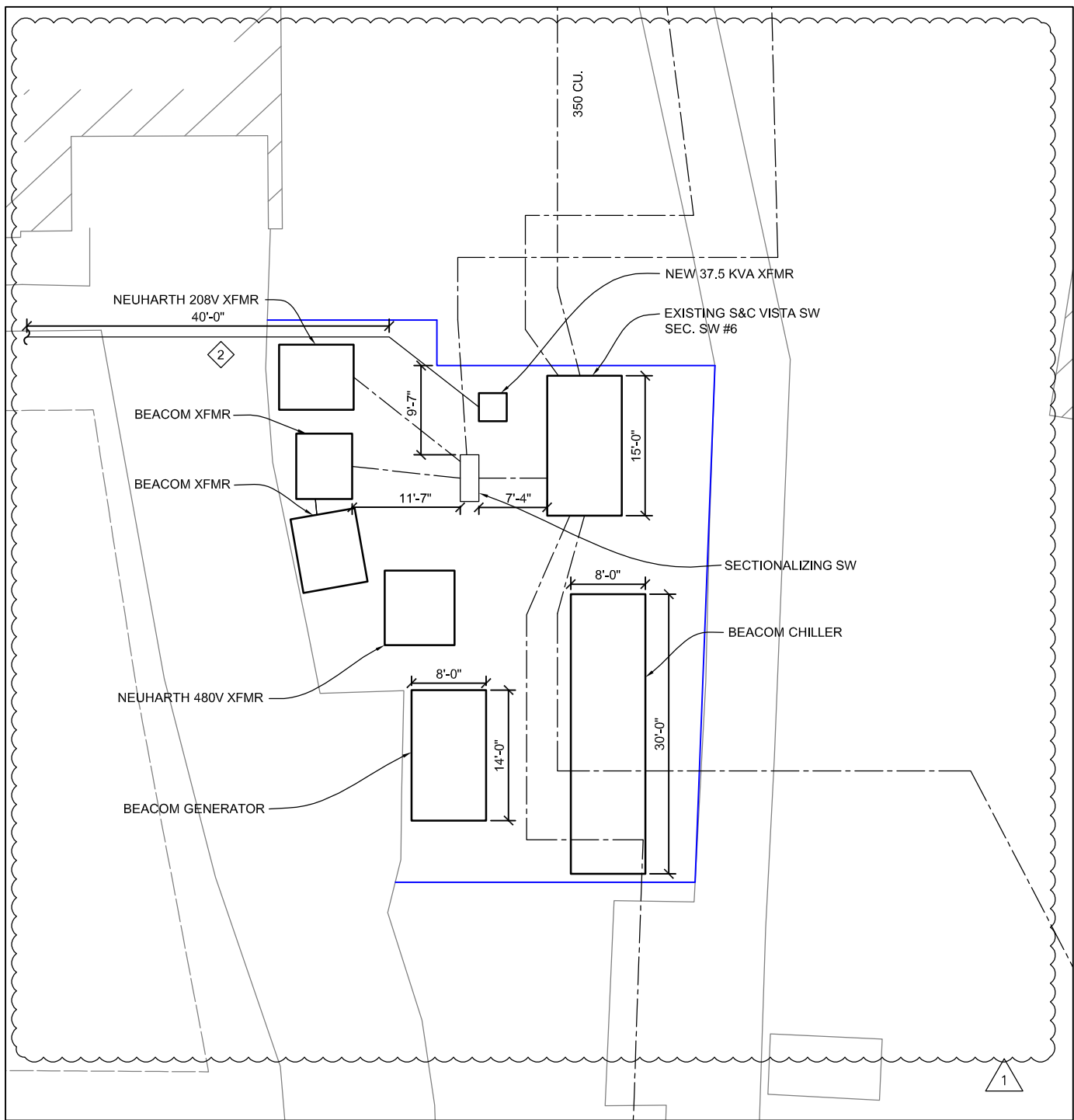
15 kV Power Cable
Conductor: #4/0, Cu., stranded

Insulation: 220 mil EPR
Neutral: (11) #14, round, Cu.
Outer jacket: Insulating black polyethylene”

AD-1, ITEM 8:

In reference to Sheet E-101, see attached E-101.2 for transformer grounding detail.

END AD-1



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ELECTRICAL SITE PLAN

Scale: NOT TO SCALE



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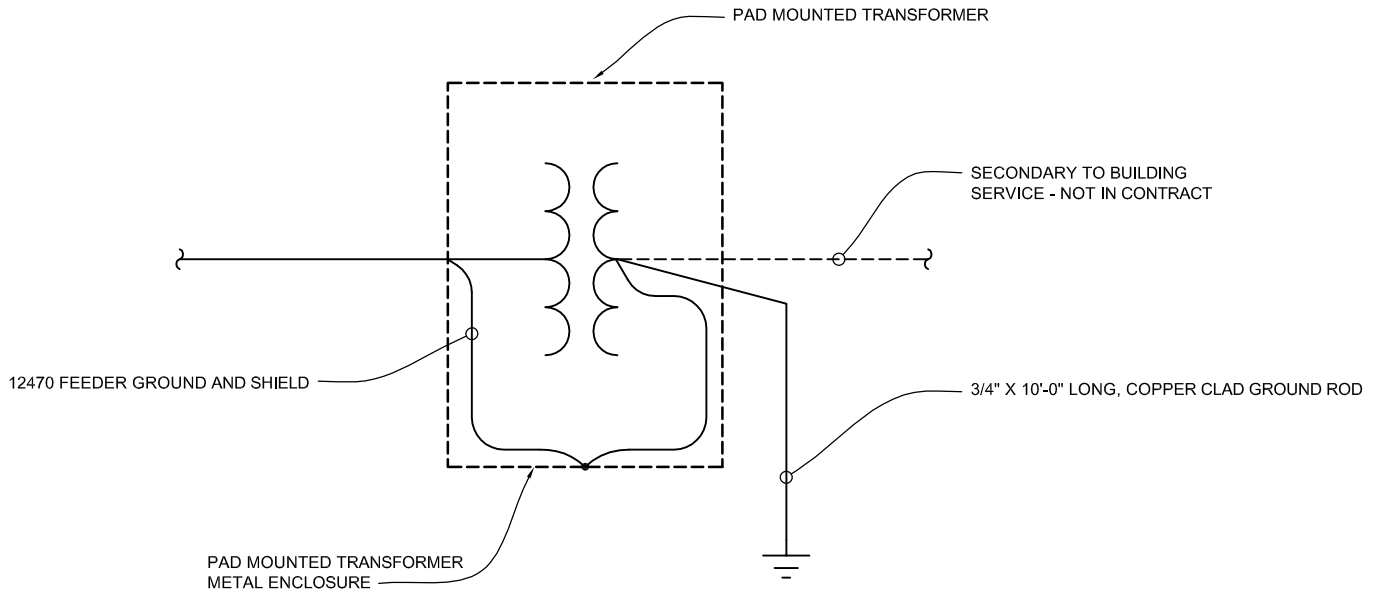
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Verizon Transformer


Issue Date	07-15-2014
Job #	14-0119
Drawn by:	JEP
CADD file:	E-101.dwg
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Drawing Title Electrical Site Plan	
From Sheet:	for CA use:
E-101	
Drawing #	
E-101.1	



TYPICAL PAD MOUNTED TRANSFORMER GROUNDING DETAIL

4

Scale: NO SCALE

 <p>DAVIS DESIGN ARCHITECTURE ENGINEERING INTERIOR DESIGN</p>	<p>Lincoln 1221 N Street, Suite 600 Lincoln NE 68508 Phone 402-476-9700 Fax 402-476-9722</p>	<p>University of South Dakota Vermillion, SD 57069</p>	<p>Issue Date 07-15-2014 Job # 14-0119 Drawn by: JEP CADD file: E-101.dwg</p>
	<p>Vermillion 15 East Main, Suite 201 Vermillion SD 57069 Phone 605-624-1081</p>	<p>Verizon Transformer</p>	<p>COPYRIGHT © DAVIS DESIGN ALL RIGHTS RESERVED</p>
	<p>Drawing Title Typical Pad Mounted Transformer Grounding Detail</p>		<p>From Sheet: E-101 for CA use:</p>
			<p>Drawing # E-101.2</p>