UNIVERSITY OF WASHINGTON
TRANSFORMER REPLACEMENT
PROJECT NO. 207163

TITLE SHEET & DRAWING LIST

DRAWING TITLE

1. TITLE SHEET & DRAWING LIST
2. SYMBOLS &ABBREVIATION
3. SITE PLAN
4. ORDERS
5. SUBMITTED DEMOL
6. SUBMITTED DRAW
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REFERENCES

NO  BY  DATE

PROJECT NO: 207163
TITLE: UNIVERSITY OF WASHINGTON
TRANSFORMER REPLACEMENT
PROJECT NO: 207163

FOR CONSTRUCTION

PROJECT NO: 207163
TITLE: UNIVERSITY OF WASHINGTON
TRANSFORMER REPLACEMENT
PROJECT NO: 207163

FOR CONSTRUCTION
GENERAL NOTES:
1. PROVIDE ALL SUPPORTS, TERMINATIONS, AND GROUNDING FOR A COMPLETE ELECTRICAL SYSTEM.

REMOVAL NOTES:
1. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM TERMINATION PANEL TO TRANSFORMER TERMINAL BLOCKS.
2. CUT & STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM TRANSFORMER TERMINAL BLOCKS TO SWITCH 1127 P.E.
3. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM SWITCH 1127 P.E. TO TRANSFORMER TERMINAL BLOCKS.
4. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM TRANSFORMER TERMINAL BLOCKS TO NETWORK BOX.
5. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM NETWORK BOX TO TRANSFORMER TERMINAL BLOCK.
6. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM TRANSFORMER TERMINAL BLOCKS TO BURNT CONCRETE WALLS.
7. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM TRANSFORMER TERMINAL BLOCKS TO MAIN SERVICE PANEL.
8. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM MAIN SERVICE PANEL TO TRANSFORMER TERMINAL BLOCKS.
9. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM TRANSFORMER TERMINAL BLOCKS TO PREPARED TERMINATION BOX.
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55. STRIP COATING OF #14 & #10 ELECTRICAL WIRE FROM TRANSFORMER TERMINAL BLOCKS TO PREPARED TERMINATION BOX.
## SCHMITZ 750kVA TRANSFORMER - REMOVAL

### REMOVAL NOTES

- **80 kV Switchgear Transformer Cut Out Switchgear**
  - Replace with a new 80 kV Switchgear Transformer with 4 oil tanks.
- **Electrical Note:**
  - New 80 kV Switchgear Transformer with 4 oil tanks.

### CONSTRUCTION TASKS

<table>
<thead>
<tr>
<th>No.</th>
<th>Task Description</th>
<th>X</th>
<th>X</th>
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<tbody>
<tr>
<td>1</td>
<td>Develop Project Specification and Construction Services</td>
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</tr>
<tr>
<td>2</td>
<td>Develop Electrical Equipment Network Plan for Removing Equipment Out of Switch Hall Electrical Room</td>
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<tr>
<td>3</td>
<td>Develop Electrical Equipment Installation Plan for Installing Equipment</td>
<td>X</td>
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<tr>
<td>4</td>
<td>Develop Plan for Temporary Power to Transformer Indoor in Switch Hall</td>
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<tr>
<td>5</td>
<td>Identify Unnecessary Material and Equipment to Be Laid</td>
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<td>6</td>
<td>Develop Abatement Plan</td>
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<tr>
<td>7</td>
<td>Prepare Heat-Resistant Work Clean and Inspect Equipment</td>
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### RECONSTRUCTION TASKS

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<th>Task Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Remove the old DE-TRANSFORMER 7127 VAC</td>
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<tr>
<td>2</td>
<td>DE-ENERGIZE TRANSFORMER 7127 VAC</td>
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<td>3</td>
<td>Remove all excess cables from switch 7127 PVS to transformer 7127 VAC</td>
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<td>4</td>
<td>Remove transformer 7127 VAC from switch 7127 VAC</td>
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<tr>
<td>5</td>
<td>Provide temporary power to live switchgear via generator</td>
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<tr>
<td>6</td>
<td>Temporary disconnect service box and network gear</td>
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<td>7</td>
<td>Remove the section of existing main wall, see structural drawings</td>
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<tr>
<td>8</td>
<td>Remove unused switchgear, transition sections, &amp; transformer 7127 VAC</td>
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<tr>
<td>9</td>
<td>Remove concrete curb flush with floor floor see structural drawings</td>
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<tr>
<td>10</td>
<td>Provide and install second lightning protection grounding</td>
<td></td>
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<tr>
<td>11</td>
<td>Install new transformers dry-type transformer and NMIS-I enclosure; new transformer shell will be connected to existing LV switchgear; separate transformer with new transformer changer for LV connection</td>
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<td>12</td>
<td>Provide power to new transformer via switch 7127 PVS to new transformer transformer at both ends</td>
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<tr>
<td>13</td>
<td>Coordinate switchgear to switch hall to remove temporary connection</td>
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<tr>
<td>14</td>
<td>Coordinate switchgear to switch hall</td>
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<tr>
<td>15</td>
<td>Coordinate service box and network gear</td>
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<td>16</td>
<td>Inspect all wiring and terminations</td>
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<td>17</td>
<td>Provide power to new transformer via switch 7127 PVS to switchgear</td>
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<tr>
<td>18</td>
<td>Test for phase inversion</td>
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<tr>
<td>19</td>
<td>Provide power at switchgear</td>
<td>X</td>
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<tr>
<td>20</td>
<td>Reconstruct main wall, see structural drawings</td>
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<tr>
<td>21</td>
<td>Clean up</td>
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CONSTRUCTION NOTES

NETWORK CONNECTION AND SCADA BOX LOCATION

Signal Conduit
3/4" Steel conduit to service panel with fitting

Power Conduit
6" to 120/208V convenience outlet

COMB Conduit
6" to network connection
<table>
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<tr>
<th>Step</th>
<th>Task Description</th>
<th>EC</th>
<th>RISK</th>
<th>AC</th>
<th>Notes</th>
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<th>RISK</th>
<th>AC</th>
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<tr>
<td>1</td>
<td>Develop Project Estimation and Construction Schedule</td>
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<tr>
<td>2</td>
<td>Develop Electrical Equipment Removal Plan for Removing Equipment Out of KWT Electrical Room</td>
<td>x</td>
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<td>3</td>
<td>Develop Electrical Equipment Installation Plan for Installing Equipment</td>
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<tr>
<td>4</td>
<td>Develop Plan for Temporary Power to 240V Switchgear</td>
<td>x</td>
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<tr>
<td>5</td>
<td>Develop Plan for Temporary 120/208V power to KWT and Tunnel</td>
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<td>6</td>
<td>Connect Temporary Power to 240V Switchgear</td>
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<td>7</td>
<td>Connect Temporary Power to 120/208V Switchgear</td>
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<td>8</td>
<td>Connect Temporary Power to 120/208V Switchgear</td>
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**Construction Notes:**

1. Remove Temporary Power from Switchgear
2. Connect Transformer to 115V to 120V Transformer
3. Test for Phase Rotation
4. Coordinate the CIRCUIT BREAKER TRANSFORMER 115V and 120V Transformer
5. Check for Voltage at 240V Switchgear
6. Alternating Source is from Emergency Service at Aerospace Research Building through Automatic Transfer Switch. Coordinate Schedule for MT Power is not Interconnected as Normal Monthly Test.
CONSTRUCTION NOTES:

Provide and install conduit, 2x4" or 1x2" junction box and mount on wall. Install 1/2" conduit from primary switch (400 A) switch and 1/0" switch to junction box.

Provide and install conduit and cable from transformer panel to monitoring control panel (100 A) in room with watertight nickel junction boxes as required. See dimensions E3-5.

Provide 1/2" (1 x 1) switch from main circuit to existing power receptacle, install pull box on mesh or sheet metal near top and just under floor grate. Install conduit under existing wires through #8 and then to #8 switch.

Provide and install 3 driveways ground rod. Grounding wires to existing ground run grounding for #8’s for primary and secondary switches and transformer.

CONSTRUCTION NOTES:

Install conduit, conduit and conduit. All conduits shall be PVC coated rigid conduit. Straight runs shall be PVC schedule 80.

Mix all concrete in place. See structural drawings.

Provide and install transformer on pad.

Provide and install 15 kV interrupter switch on pad.

Provide and install service entry rated 15 kV disconnect switch on pad.

Supply 120/240 volt main panel from switch to transformer and transformer.

Provide conduit from transformer to #8's disconnect switch and transformer.

Provide and install 15 kV main in pull box, mount panel on cast iron wall, 15 kV conduit entry and a pull piece.

Install conduits from pull box on south face of building to pull box on cast iron wall.

Install 120/240 volt circuit breaker in electrical panel from #8's to #8's disconnect switch and transformer.

Resilient floor. See structural drawings.

Install switch-socket fixture. Switch on box in conjunction with the above. See power switch from existing circuit loads for switch assembly, switch shall be type K.

SCHEDULE

CONTRACTOR

UNIVERSITY OF WASHINGTON

PROJECT NO. 27168

HENDERSON HALL

PARTIAL PLAN TRANSFORMER

ISSUE FOR CONSTRUCTION

DRAWN BY

DATE

REVISION

E3.5

10/16/2014

CASHNE Engineering

(360) 268-0677

www.cashne.com

PROJECT NAME

10/16/2014

CONTRACTOR

E3.5

DATE

REVISION

E3.5

DATE

REVISION

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DATE

REVISION

E3.5
<table>
<thead>
<tr>
<th>SLD</th>
<th>TASK DESCRIPTION</th>
<th>CONSTRUCTION / MATERIALS</th>
<th>NOTES</th>
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<tr>
<td>20</td>
<td>OPEN CONDUIT FROM TERMINAL</td>
<td>X</td>
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<tr>
<td>21</td>
<td>INSTALL CONDUIT FROM TERMINAL</td>
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<td>22</td>
<td>INSTALL CONDUIT FROM TERMINAL</td>
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<td>23</td>
<td>INSTALL CONDUIT FROM TERMINAL</td>
<td>X</td>
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<tr>
<td>24</td>
<td>INSTALL CONDUIT FROM TERMINAL</td>
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**Construction Notes:**

- Ensure all work is in accordance with the approved plans and specifications.
- All conduit shall be installed in a manner that complies with applicable codes and standards.
- Verify all conduit connections are secure and properly terminated.
- Final inspection shall be performed before the electrical panel is energized.
REMOVAL NOTES:

- REMOVE CONDUIT AND WIRE TO CHILLED WATER PUMP. REMOVE LOCAL HAND-OFF-AUTO CONTROL FOR PUMP. REMOVE CONDUIT AND WIRING FROM HOA BACK TO DC-5. REMOVE LOCAL MOTOR STARTER.

- REMOVE WIRING FROM LOCAL MOTOR STARTER BACK TO DISCONNECT SWITCH. GAP ENDS OF CONDUIT AT CHILLER AND ROOM TROBA. REMOVE DISCONNECT SWITCHES FOR CHILLER AND CHILLED PUMP.

- REMOVE CONDUIT AND WIRE FROM VALVE CONTROLLER BACK TO DC-5.

- REMOVE CHILLER SELECTOR SWITCH AND PROVIDE COVER FOR PANEL.

**ELECTRICAL**

**FIRST FLOOR PARTIAL PLAN—REMOVAL**

SCALE: 1/4" = 1'-0"
FOR REFERENCE ONLY

BILL OF MATERIALS

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<thead>
<tr>
<th>Designation</th>
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NOTES:
1. ALL N2 AND FUTURE ETHERNET CABLES TO BE INSTALLED IN CONDUIT.
2. ALL N2 CABLE RUNS ARE TO INCLUDE A SPARE 250' 18AWG CABLE FOR BACKUP.

AS BUILT
FOR REFERENCE ONLY
GENERAL NOTES:

1. PROVIDE ALL SUPPORT, TERMINATIONS, AND CATEGORIZE FOR ELEC. CONSTRUCTION.

CONSTRUCTION NOTES:

□ PROVIDE NEW 1000 VA OIL-TYPE TRANSFORMER WITH REMOTE TEMPERATURE MODULE. NEW TRANSFORMER SHALL BE LOCATED AT EXISTING TRANSFORMER LOCATION. PROVIDE ELECTRICAL CONNECTION TO EXISTING OIL-TYPE TRANSFORMER USING APPROPRIATE CONNECTOR FOR ELECTRICAL CONNECTION. INSTALL NEW TRANSFORMER/ WIREMOUNT STEEL CAGE THRU COVER VENT.

□ CONTACT NEW TRANSFORMER TO EXISTING OIL-TYPE TRANSFORMER USING APPROPRIATE CONNECTOR. TRANSFORMER TO BE LIT BY SWITCHGEAR.

□ TRANSFORMER BOX TO BE INSTALLED FROM EXISTING TRANSFORMER BAY TO NEW TRANSFORMER AND PROVIDE CABLE SUPPORT AS NECESSARY AND TERMINATIONS. TERMINATE AT BOTH ENDS.

□ REPLACE COVER VENT AND STEEL CAGE (SEE STRUCTURAL ENGINEER).

□ PROVIDE 2 HOUR FIREPROOF THRU ALL PIER MOUNTS IN WALL.