MANHOLE TRANSITED. REFER TO SPECIFICATIONS FOR ADDITIONAL

PARKING LOT 0-5

BOL BOL

LITE CKT. 19 - 21 RAINBIRD CKT. 29

KEY NOTES:

2-2" P.V.C. CONDUIT

INSTALL NEW MEDIUM VOLTAGE FEEDER CABLING IN EXISTING

UNDERGROUND CONDUIT. REFER TO ONE-LINE DIAGRAM.

OF NEW SIGNAL CABLING. SEE E1.702 FOR SIGNAL WIRING

BOL

GENERATOR SYSTEM CONROLLER 'MCP'. APPROXIMATE

TS

K06S14

H

P

HH

GRAVEL

K09S11

IN

N

I

IN

TS

HH

PP

HH

K06B

ST

HH

K06A19

J11O05

J11G05

J09F17

J10Q08

I10P18

I08R04

I07F11

I07F04

I10T10

I10N16

I10Q08

I10P18

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13

I04P19

I06M15

I06P13
GENERAL NOTES:

1. NEW SITE WORK.
   CITY OF ELLENSBURG PAD MOUNT SWITCH
   GENERAL ROUTING OF UNDERGROUND CONDUITS HAVE BEEN SHOWN FOR COORDINATION PURPOSES. REFER TO ONE-LINE DIAGRAMS. CONDUITS SHALL BE FIELD VERIFIED WITH EXISTING UTILITIES PRIOR TO EXCAVATION.

KEY NOTES:

- #42351
- NEW CHAIN-LINK SECURITY FENCE. MATCH SCREENING OF NEW FENCING TO BE PROVIDED AND INSTALLED BY OWNER. SEE E1.505 FOR FENCING DETAILS.
- RELOCATED 10-FOOT WIDE DOUBLE SWING GATE.
- CUT NEW 3' WIDE BY 4' TALL OPENING IN SIDE OF EXISTING GENERATOR ENCLOSURE AND PROVIDE NEW HINGED LOCKABLE ACCESS DOOR. ACCESS DOOR AND FRAME CONSTRUCTION SHALL MATCH EXISTING ADJACENT MAN-DOOR CONSTRUCTION. FIELD COORDINATE LOCATION OF NEW OPENING WITH LOCATION OF GENERATOR OUTPUT CIRCUIT.
- EXISTING GENERATOR 'BIG GEORGE' TO BE INSTALLED IN NEW LOCATION AS SHOWN. CONTRACTOR SHALL REMOVE EXISTING DISTRIBUTION EQUIPMENT FROM THE GENERATOR PER DETAILS ON SHEET E1.504. GENERATOR BLOCK HEATER AND BATTERY CHARGING SYSTEM TO REMAIN. REMOVE WHEELS FROM GROUNDING PROVISIONS PER DETAIL ON SHEET E1.501.
- PROVIDE VAULT BELOW EQUIPMENT PER SPECIFICATIONS. SEE VAULT DETAILS ON SHEETS E1.501 & E1.502.
- INSTALL STEP SYSTEM TO ALIGN WITH REAR ACCESS DOOR OF (E) PANEL LG-9 TO PNL 'LG' FOR FUTURE ORDERING.
- PROVIDE CONCRETE MILITARY RAMPED-FUSION BASEMENT TO ALIGN WITH REAR ACCESS DOOR OF (E) PANEL LG-9 TO PNL 'LG' FOR FUTURE ORDERING.
- FIBERGLASS GROUND SLEEVE BELOW NOTED TRANSFORMER. HIGHLINE FGS SERIES OR EQUAL WITH 30" HEIGHT. GROUND SLEEVE SIZE TO BE COORDINATED WITH TRANSFORMER TANK DIMENSIONS PRIOR TO ORDERING. PROVIDE CONCRETE VAULT BELOW EQUIPMENT PER SPECIFICATIONS. SEE VAULT DETAILS ON SHEETS E1.501 & E1.502.

CONSTRUCTION DOCUMENTS
STEEL REINFORCEMENT BARS SHALL BE #4 BARS, NOT TO EXCEED 12" SPACING.

PRECAST TRANSFORMER PAD MOUNTED ABOVE TRANSFORMER VAULT AS PER SPECIFICATIONS.

NOTES:
1. FIELD COORDINATE EXACT TRANSFORMER PAD DIMENSION AND BLOCKOUT REQUIREMENTS WITH EQUIPMENT SUPPLIER AND FIELD CONDITIONS.

N.T.S.
3 TYPICAL TRANSFORMER CONCRETE PAD W/ VAULT

N.T.S.
2 TYPICAL SWITCH CONCRETE PAD W/ VAULT

N.T.S.
4 TYPICAL TRANSFORMER PAD & VAULT GROUNDING DETAIL

N.T.S.
1 TYPICAL GENERATOR GROUNDING

N.T.S.
5 TYPICAL SWITCH PAD AND VAULT GROUNDING DETAIL

N.T.S.
6 TYPICAL TRANSFORMER PAD & VAULT GROUNDING DETAIL
PARALLELING SWITCHGEAR ELEVATION
EXISTING GENERATOR 'BIG GEORGE' - DEMO DETAIL

EXISTING GENERATOR 'LITTLE GEORGE' - DEMO DETAIL
## Circuit Breaker Panelboard

<table>
<thead>
<tr>
<th>Description</th>
<th>Type</th>
<th>Rating</th>
<th>Source</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator Load 1</td>
<td>Panel</td>
<td>750KVA</td>
<td>Generator</td>
<td>Operating</td>
</tr>
<tr>
<td>Generator Load 2</td>
<td>Panel</td>
<td>750KVA</td>
<td>Generator</td>
<td>Operating</td>
</tr>
<tr>
<td>Total Load</td>
<td>Panel</td>
<td>750KVA</td>
<td>Generator</td>
<td>Operating</td>
</tr>
</tbody>
</table>

- **Generator Load 1**: Panel, 750KVA, Source: Generator, Condition: Operating
- **Generator Load 2**: Panel, 750KVA, Source: Generator, Condition: Operating
- **Total Load**: Panel, 750KVA, Source: Generator, Condition: Operating

### Existing Circuit Breaker Panelboard

<table>
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- **Generator Load 1**: Panel, 750KVA, Source: Generator, Condition: Operating
- **Generator Load 2**: Panel, 750KVA, Source: Generator, Condition: Operating
- **Total Load**: Panel, 750KVA, Source: Generator, Condition: Operating

### Notes

- Generator Load 1 and 2 are connected to the main generator.
- Total load is monitored to ensure system capacity is not exceeded.
- Regular maintenance checks are scheduled to ensure system reliability.

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**Central Washington University**

**Campus Generator**

**State Project No.: 12238-02**

**Date:** 10-05-2016

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**Construction Documents**

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**Schedule - Electrical**

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**Circuit Breaker Panelboard**

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**Drawing:** E1.601

---

**Checkered By:**

---

**Drawn By:**

---

**Sheet Title:**

---

**Date:** 2015.706.02

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**Central Washington University**

**Elleensburg, WA**
1. All electrical equipment existing to remain.
2. Owner shall have first right of refusal for all demolished equipment.

**FEEDER 31**
- 1#1/0 G, 600V
- 3#350, 15KV

**KVARH**
- 300/5 PML

**KVAR**
- 300/5 PML

**FEEDER 32**
- 600A

**1200 A (3) VT**

**E1.701 CENTRAL WASHINGTON UNIVERSITY**

**CAMPUS GENERATOR**

**STATE PROJECT NO. 12238-02**

**CENTRAL ELLENSBURG, WA**

**CONSTRUCTION DOCUMENTS**

**EXISTING MEDIUM VOLTAGE ONE-LINE**

**EXISTING GENERATOR. REFER TO NEW WORK PLANS.**

**EXISTING TRANSFORMER TO BE DEMOLISHED. CONTRACTOR TO UTILIZE EXISTING TRANSFORMER FOR TEMPORARY CONNECTION OF LOAD BANK DURING CLOSEOUT PHASE OF PROJECT.**

**DEMOLISH EXISTING FEEDER CABLING. EXISTING PATHWAY TO BE ABANDONED IN PLACE.**

**EXISTING FEEDER TO REMAIN.**

**EXISTING DIESEL FUELED STANDBY GENERATOR "LITTLE GEORGE" 500KW, 480Y/277V**

**SECTIONALIZING CABINET**

**VAULT AT GENERATOR 1000kVA 12.47KV:480Y/277V**

**DESCRIPTION**

**N O T E S**

**SCALE: AS NOTED**

**CONSTRUCTION DOCUMENTS**

**EXISTING MEDIUM VOLTAGE ONE-LINE**

**EXISTING MEDIUM VOLTAGE ONE-LINE**
GENERAL NOTES:

1. DRAWOUT TYPE CIRCUIT BREAKER
2. S&C SWITCHBAY SECTION
3. CONTRACTOR INSTALLED.
4. NON SEPARABLE CONNECTION WITH STRESS CONES

PROVIDE GROUNDING ELECTRODE AT SERVICE PANEL

SERVICE PANEL NOT REQUIRED.

TO SQUARE D POWERPACT P-FRAME CIRCUIT BREAKER

1. REMOVE AND REPLACE EXISTING CIRCUIT BREAKER

FREE STANDING SWITCHGEAR

3#350, 15KV

KEYNOTES:

PROVIDE GROUNDING ELECTRODE AT SERVICE PANEL

SERVICE PANEL NOT REQUIRED.

1. REMOVE AND REPLACE EXISTING CIRCUIT BREAKER

FREE STANDING SWITCHGEAR

3#350, 15KV

CAMPUS GENERATOR PROJECT SCOPE

SAMUELSON BLDG. PROJECT SCOPE (NIC)

CONSTRUCTION DOCUMENTS

E1.702