ADDENDUM NO. 1

EASTERN OREGON UNIVERSITY

RFP #FP-2019-04N

EOU EMERGENCY BACKUP POWER SYSTEM – INLOW HALL

This three (3) page addenda (11 pages total including attachments) changes the contract documents as follows: modifies the bid opening date to Tuesday March 19, 2024, removes any reference to @eou.eou, modifies the Bid Schedule – separating the trenching into a separate bid item, modifies the trenching alignment, notes no substitutions were submitted, clarifies the transformer at the generator as 15KVA, updates the transformer pad notation, modifies the plan scaling for the published pdf sheet are 'full size'.

Further, this addendum provides an updated agenda and the sign-in sheet for the Optional Site Walk as information only.

Addendum No. 1 to the Request for Proposal (RFP) is hereby submitted for use in proposal preparation and submittal.

All changes, additions, and/or deletions are hereby made as part of EOU Inlow Hall Phase II Project, as fully and completely as if the same were entirely set forth in the RFP #FP-2019-04N. Changes and additions are noted in *underlined italics*, deletions are noted in ~~strikethrough~~.

CONTRACT DOCUMENTS

BID DOCUMENTS

Bid Due Date & Time

Modify the cover sheet as follows:

> **BID DUE DATE & TIME**
>
> *Tuesday* ~~Friday~~, March 19~~15~~, 2024, at 2:00 PM via sealed bid submission to bids@eou.edu

Invitation for Bids Section 00 11 16 (Page 1 of 2)

Modify the Invitation for Bids as follows:

> Bidders must submit Bids electronically. Hard copies will not be accepted. Bids must be delivered through email in a searchable PDF format to, bids@eou.~~eou~~edu and must be received by **2:00 PM, *Tuesday* ~~Friday~~ March *19*~~15~~, 2024**, at which time bids shall be immediately opened; however, the amounts of the Bids will not be publicly provided at that time.

SPECIFICATIONS

Section 01 63 00 Product Substitution

Accepted Substitution:

1-phase transformer: GE, Howard Industries (See Q&A)
Note: GE power has been acquired by ABB (already accepted manufacturer); However, unclear if ABB has acquired GE transformers. GE, and ABB are acceptable provided the utilized product meets the specifications.
Submittals required.

BID SCHEDULE

Base Bid Schedule, Section 00 40 00, Page 5 of 13

Revise as follows:

12	*Electrical Trench, excavation, bedding, backfill, & surface restoration.*	*575*	*LF*		
~~12~~*13*	Medium Voltage Cable & High Pot Testing	~~1200~~ *1150*	LF		
~~13~~*14*	PVC Coated GRC Raceway (See Alternates)	~~3600~~ *3450*	LF		
~~13~~*15*	PVC Raceway (See Alternates)	100	LF		
~~15~~*16*	Medium Voltage Terminations, Labeling, and Connectors (Does not include Splices)	8	EA		
~~16~~*17*	Medium Voltage Splice	6	EA		
~~17~~*18*	Trenching, Backfill, Warning Tape, Site Work, Installed Complete	600	LF		

See Attachment 1 which replaces page 5 of 13 of Section 00 40 00 for use in Bid Proposal.

PLANS

PLANS (See Clouded Revisions in Attachment 2)

SHEET E0.10

Transformer at Generator shall be 15KVA. Transformer/Panel to be rated for 120/240V.

SHEET E1.00

Modifications to the scale for 'full size plans' :

SHEET E2.00

Modifications to the scale for 'full size plans', modifications to the trench alignment to reduce impact to existing trees and reduce vertical grade breaks due to the required minimum and maximum trench depths.

SHEET E3.00

Updated Transformer pad notation.

QUESTION AND ANSWERS

QUESTIONS FIELDED DURING BID PERIOD AND OPTIONAL SITE VISIT

These answers supersede any discussions held prior to today, including discussions on-site, and shall be considered direction/intention of the documents.

Q: Does the base bid intend to include PVC coated rigid raceway for the risers, and bends?

A: Yes, include PVC coated risers and bends. Note minimum and maximum burial depths. Warning tape required.

Q- Does the alternate require concrete encasement for medium voltage when schedule 80 PVC is used?

A: No, only schedule 80 PVC is required. Note minimum and maximum burial depths. Warning tape required.

Q- Is a separate ground conductor required for the medium voltage feeders?

A: The cable is specified with a ground shield. The number of conductors shown in the trench detail (1/E3.00) is schematic/for referenced only; not intended to indicate number of conductors required. No additional ground (separate ground conductor) is required for the medium voltage feeds. A separate ground conductor (equipment grounding conductor) is required in the low voltage connections (120/208V).

Q- Is the generator manufacturer providing the G&W IATS?

A: That is up to the bidder on who supplies what equipment. The generator can be ordered separately, or with the switch; However, only approved manufacturers are permitted. For example, a Kohler IATS is not permitted, but a Kohler generator is acceptable. Contact for G&W switch is:

Tim Johnston P.E. | Technical Sales | 360-270-2112| Tim@peakmeasure.com
www.peakmeasure.com

For RFQ's, PO's, RMA's & order status, contact Inside Sales at 360-263-0123 or orders@peakmeasure.com

Q- Who are the approved manufacturers for the 15KVA 1-Phase transformer?

A1: See 26 12 00 Part 1.6A

A2: Approved substitutions include GE (ABB), and Howard Industries https://www.howard-ind.com/Power/Product/Products/12

Q- Does the 1-phase transformer require two phase conductors for 120/208V secondary?

A: No, one phase, and neutral (primary ground) see connection diagram where connection to X1 and X3 is 240V,and X1/3 and X2 is 120V. Transformer is now 120/240V Secondary- See drawings.

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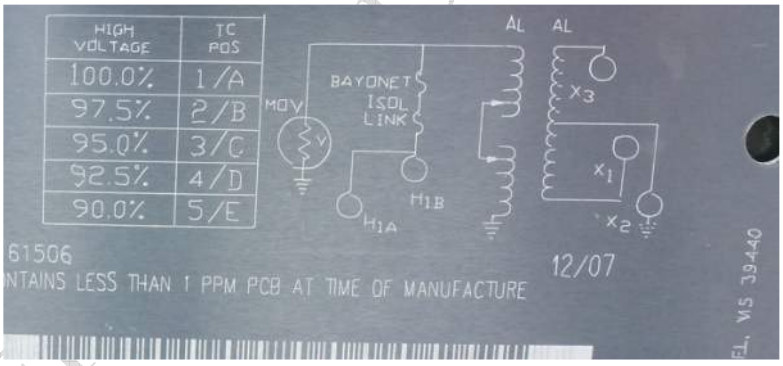


ATTACHMENTS

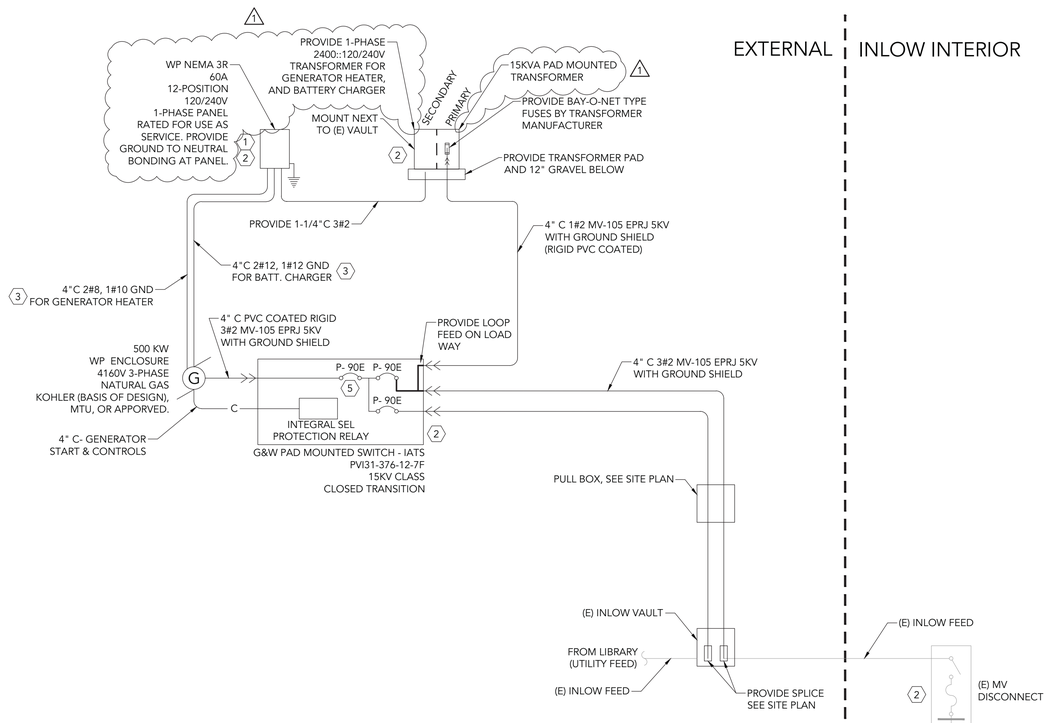
Attachment 1 – Revised Base Bid Schedule (1 page), replaces page 5 of 13 in Section 00 40 00.
Attachment 2 – Plan Sheets E0.10, E1.00, E2.00, E3.00 (4 pages), replaces those plan sheets.
Attachment 3 – Optional Site Walk Update Agenda & Sign-in sheet (3 pages), for information only.

By: John Garlitz, Director of Facilities & Planning Date: March 11, 2024

REVISED BID SCHEDULE Per Addendum No. 1

BASE BID					
Item No.	**Description**	**Qty**	**Unit**	**Unit Price**	**Total Cost**
1	Mobilization	1	LS		
2	Sectionalization Switch with Installation, Training, Programming, Testing, Startup, All Complete	1	LS		
3	Generator with Installation, Training, Testing, Startup, All Complete	1	LS		
4	Generator Pad, Installed Complete	1	LS		
5	Pre-Cast Pads, Vaults, Hand-Holes, Pull-Boxes, and all appurtenances, Installed Complete.	1	LS		
6	Transformer, Panel, Unistrut, Mounting, Devices, Conductors, Raceway, Controls, Connections, and all appurtenances, Installed Complete.	1	LS		
7	Natural Gas Connections, modifications, service extensions, and Coordination, Installed Complete.	1	LS		
8	General Conditions (Coordination)- Meetings, Owner Coordination, 3rd Party Coordination (Utilities, etc.)	1	LS		
9	General Conditions- Bonding, and other requirements indicated.	1	LS		
10	Removal of existing Generator, Relocation, Salvage, and reprogramming/Configuring Existing ATS.	1	LS		
11	Removal of existing Generator enclosure and returning site to match existing conditions (patching).	1	LS		
12	Electrical Trench, excavation, bedding, backfill, & surface restoration.	575	LF		
13	Medium Voltage Cable & High Pot Testing	1150	LF		
14	PVC Coated GRC Raceway (See Alternates)	3450	LF		
15	PVC Raceway (See Alternates)	100	LF		
16	Medium Voltage Terminations, Labeling, and Connectors (Does not include Splices)	8	EA		
17	Medium Voltage Splice	6	EA		
18	Trenching, Backfill, Warning Tape, Site Work, Installed Complete	600	LF		

BASE BID TOTAL = $ _____



(FOR REFERENCE ONLY)

FEEDER SCHEDULE (COPPER)

252	2 #10 CU THWN-2, 1 #10 CU GND., IN 3/4"C.
352	2 #8 CU THWN-2, 1 #10 CU GND., IN 3/4"C.
1004	4 #2 CU THWN-2, 1 #4 CU GND., IN 2"C.
1254	4 #1 CU THWN-2, 1 #4 CU GND., IN 1-1/2"C.
1504	4 #1/0 CU THWN-2, 1 #4 CU GND., IN 2"C.
2004	4 #3/0 CU THWN-2, 1 #4 CU GND., IN 2"C.
3504	4 #500 KCML CU THWN-2, 1 #2 CU GND., IN 4"C.

(NOT BY GENERATOR EOR)

SHEET NOTES

A. IATS:
LOCATION NEXT TO NEW GENERATOR / GILBERT HALL
600 AMP CAPACITY
15KV CLASS
4160V 3-PHASE CONNECTION
DEAD-BREAK CONNECTIONS
LOOP-FEED ON LOAD WAY

CONFIGURATION- THREE-WAY, EACH WITH MANUAL DISCONNECTS. PROTECTION ON ALL AVAILABLE WAYS.

PROTECTION REQUIREMENTS:
STANDARD, ABILITY TO INTERLOCK WITH CLOSED TRANSITION AUTOMATIC TRANSFER SWITCH.
ABILITY TO INTERCONNECT TO FUTURE REMOTE ANNUNCIATOR, OR ABILITY FOR FUTURE SEPARATE ANNUNCIATOR TO INDICATE FAILURES, FAULTS, BATTERY LEVEL, AND STATUS. PROVIDE LOCAL ANNUNCIATOR (NOT FUTURE, INCLUDE).
ABILITY TO START GENERATOR.
ABILITY TO DETECT POWER DISRUPTIONS.
FUTURE DISPATCH INTEGRATION.
MOTOR OPERATORS AS REQUIRED.

B. GENERATOR REQUIREMENTS:
DISPATCH INTEGRATION
SEQUENCING
DATA INTERCONNECTION PARALLELING VIA SEL SYSTEM

C. GENERAL/SEL REQUIREMENTS:
FACTORY PROGRAMMED
FACTORY TESTING
FACTORY ON-SITE PROGRAMMING
PROGRAMMING SUBMITTAL FOR REVIEW
SHOP DRAWINGS OF CONFIGURATIONS, CONNECTIONS, AND INTERCONNECTIONS INCLUDING REMOTE ANNUNCIATOR(S)
REPORT OF AS-LEFT CONDITIONS INCLUDING TIME SETTINGS
REPORT OF SIMPLIFIED SETTINGS OF PROTECTION RATING AMPS AND SPEED
SIMPLIFIED SETTINGS ADJUSTABLE LABEL (LABEL OF WAY SETTING SUCH AS A SHEET PRINT-OUT)

KEYNOTES

1. POPULATE WITH:
   - (1) 60/2 MAIN
   - (1) 40/2 GENERATOR HEATER
   - (1) 20/1 GENERATOR BATTERY CHARGER
   - (1) 20/1 PANEL MOUNTED GFI RECEPTACLE
   - (6) 20/1 SPARE
2. PROVIDE PHENOLIC WEATHERPROOF SIGN THAT INDICATES THE FOLLOWING. PROVIDE RED SIGN WITH WHITE LETTERING. LETTERS NOT LESS THAN 1/4" TALL, SIGN SHALL BE PERMANENTLY ADHERED TO EQUIPMENT WITH WP ADHESIVE, OR BY MECHANICAL MEANS NOT VOIDING EQUIPMENT LISTING. "WARNING: HIGH VOLTAGE NATURAL GAS POWER GENERATOR ON-SITE MAY START AT ANY TIME. THIS LOAD, FED FROM MULTIPLE SOURCES."
3. OR AS REQUIRED.
4. RE-PROGRAM (E) ATS SUCH THAT ATS DOES NOT TRANSFER TO AN UNAVAILABLE SOURCE UPON NORMAL POWER LOSS.
5. PROGRAM PER GENERATOR MANUFACTURER. INCLUDE AUXILIARY TRIP INPUT FROM GENERATOR. CONNECT TO GENERATOR OUTPUT PER GENERATOR MANUFACTURER. GENERATOR MANUFACTURER SHALL PROVIDE DETAILED TIME-CURRENT-CURVE TRIP/OPEN REQUIREMENTS.

1 E0.10 ONE-LINE

SCALE: NTS

REGISTERED PROFESSIONAL ENGINEER
59,920
DIGITALLY SIGNED BY:
Matthew J. Cash
OREGON
JANUARY 18, 2005
MATTHEW J. CASH
EXPIRES: 12/31/2025

FLUENT ENGINEERING
STEWARDSHIP THROUGH DESIGN™
2111 STATE STREET
SALEM, OREGON 97301
503-447-5030
INFO@FLUENTENGINEERING.COM
FLUENTENGINEERING.COM

EOU INLOW HALL - GENERATOR DESIGN

ONE UNIVERSITY BLVD. LA GRANDE OR, 97850

REVISIONS		
SYM.	DATE	DESIGN/CHECK
1	MAR. 11, 2024	BC/MJC

23-137

DESIGN: BC
DRAWN: BC/AM
CHECKED: MC

MAR. 11, 2024

ONE-LINE

SHEET INDEX

E0.10

100% CONSTRUCTION DOCUMENTS

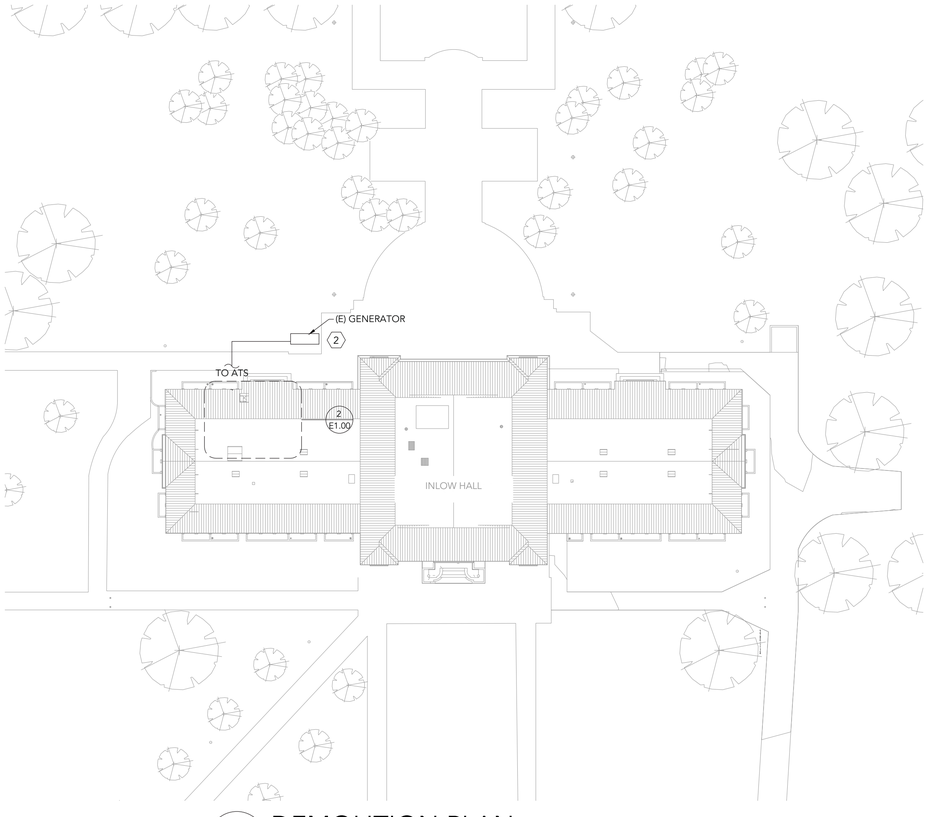
SHEET NOTES

A. (E) SITE AND BUILDING PLANS NOT BY EOR. UNBOLDED (N)/(E) NOTATIONS ARE NOT APPLICABLE. SEE INLOW RENOVATION PROJECT CURRENTLY IN PROGRESS.

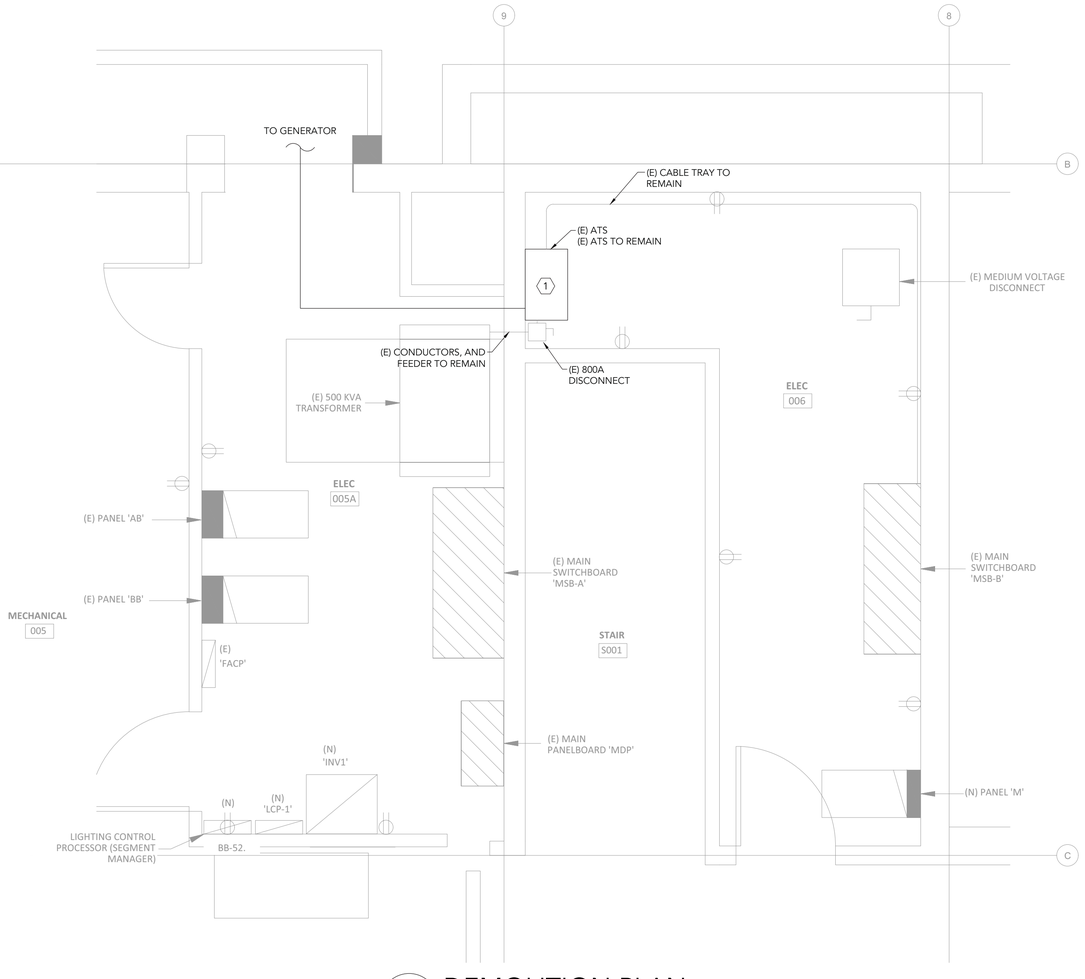
#KEYNOTES

1. REMOVE (E) CONDUCTORS, AND CONTROL CONDUCTORS TO (E) GENERATOR. RACEWAY TO REMAIN. ATS TO REMAIN. WP CAP (E) RACEWAY, DO NOT PERMANENTLY SEAL RACEWAY. RE-PROGRAM ATS AS REQUIRED. SEE ONE-LINE. (E) ATS SHALL NOT START NEW GENERATOR.

2. REMOVE (E) GENERATOR, AND SALVAGE TO OWNER. REMOVE (E) CONDUCTORS AND CONTROL CONDUCTORS TO (E) ATS. RACEWAY TO REMAIN. PROVIDE WP CAP. SEE ONE-LINE. SEE STRUCTURAL FOR (E) PAD, ENCLOSURE REMOVAL/MODIFICATIONS. ETC.



1 E1.00 DEMOLITION PLAN
SCALE 0 16' 32' 64'
1



2 E1.00 DEMOLITION PLAN
SCALE 0 2' 4' 8'
1

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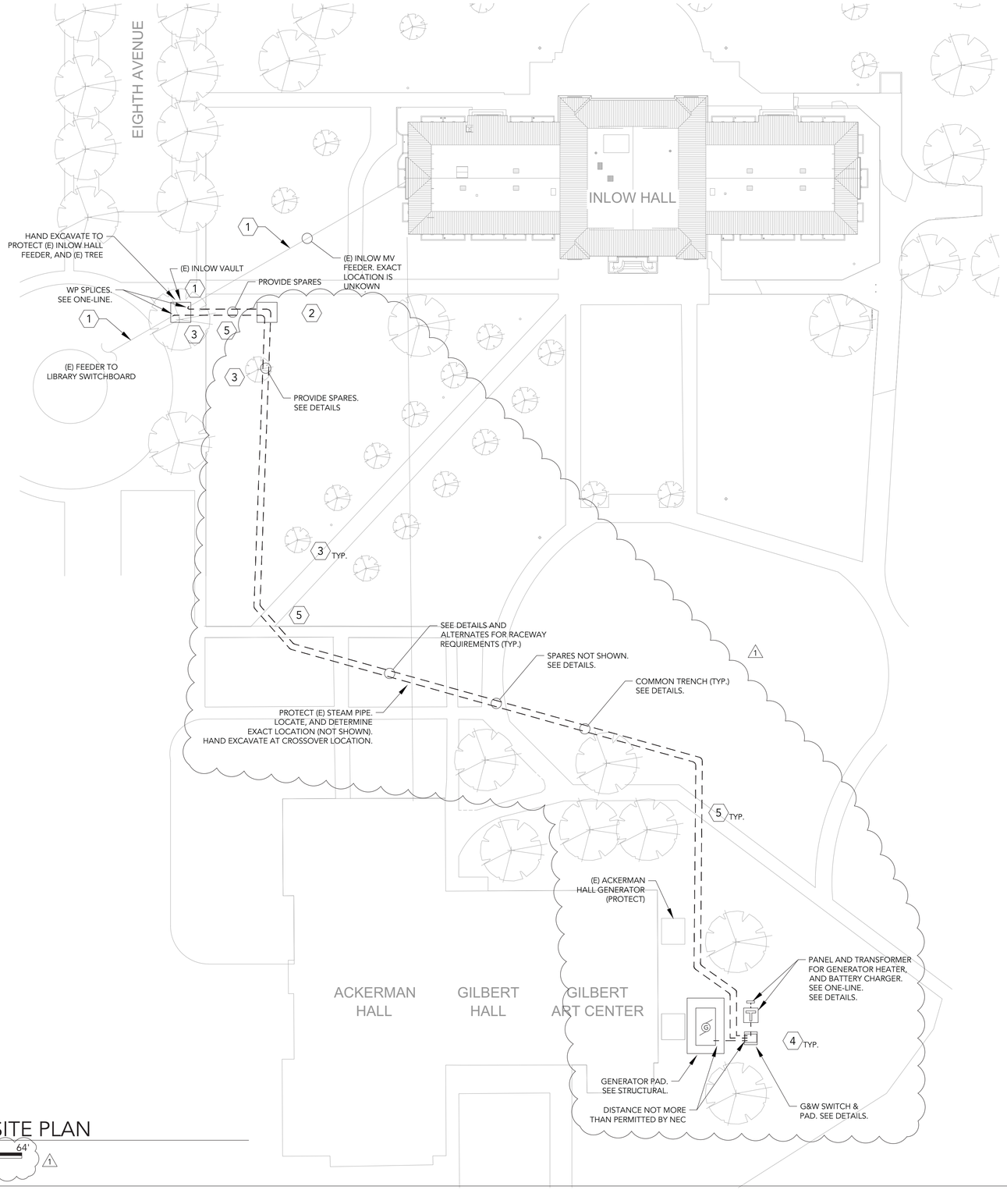
MAR. 11, 2024

DEMOLITION PLAN

SHEET INDEX

E1.00



1 E2.00 CAMPUS SITE PLAN

SCALE 0 16' 32' 64'

SHEET NOTES

A. MATCH GENERATOR COLOR OF LIGHT BROWN FOR EXTERNAL SWITCH, AND TRANSFORMER.

B. DO NOT DEVIATE FROM COMMON TRENCH ROUTE/LOCATIONS SHOWN. SPECIFIC ROUTE REQUIRED INCLUDING TRAVERSING BETWEEN TREES SHOWN.

C. (E) UTILITIES, (E) STORM NOT SHOWN.

D. PROVIDE PRIVATE LOCATE PRIOR TO EXCAVATION, AND PART OF THE TRENCH INSTALLATION TO DETERMINE EXACT LOCATION OF EXISTING UTILITIES. ALPHA LOCATES, OR APPROVED. TYPICAL.

KEYNOTES

1. (E) LOCATION AND DEPTH OF THIS FEEDER IS UNKNOWN. FEEDER IS INDICATED ON AS-BUILTS AS CONCRETE ENCASED. PROTECT (E) FEEDER ROUTE. PROVIDE LOCATE. PROVIDE LOCATE. SHOWN FOR REFERENCE ONLY.
2. PROVIDE CONCRETE PULL BOX. SEE DETAILS. IF (E) INLOW VAULT CANNOT ACCOMMODATE (2) SPLICES PER PHASE (6 TOTAL), RELOCATE PULL BOX ALONG (E) INLOW FEEDER TO INTERCEPT AND SPLICE AT RELOCATED POSITION.
3. PROTECT (E) TREE.
4. LANDSCAPING, AND STORM IN THIS AREA NOT SHOWN, AND/OR EXACT LOCATIONS OF (E) IS NOT SHOWN. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH (E) CONDITIONS. BACKGROUND PLAN NOT BY EOR.
5. BORE MAY BE REQUIRED TO PROTECT (E) WALKWAY. COORDINATE WITH OWNER.

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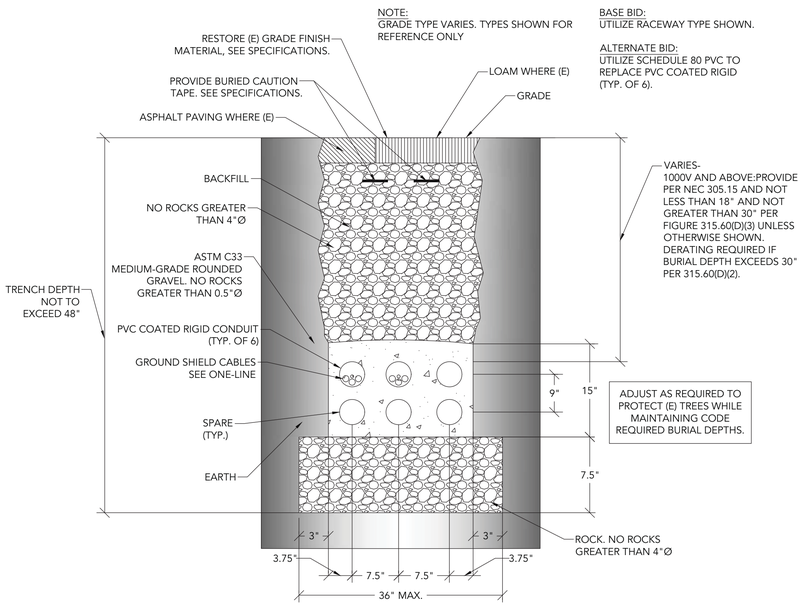
CAMPUS SITE PLAN

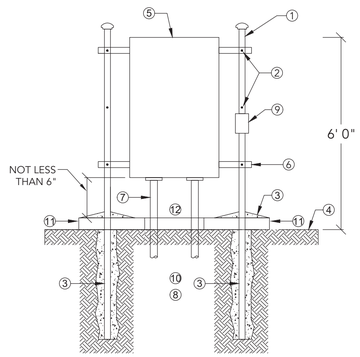
SHEET INDEX

E2.00



1 E3.00 CONDUIT DUCT BANK - IATS TO PULLBOX

NTS



(#) DETAIL NOTES:

1. 3" GALVANIZED STEEL PIPE. WITH GALVANIZED CAPS (TYP.)
2. THRU-BOLTED WITH GALVANIZED HARDWARE AT 6 PLACES (TYP.)
3. CONC. BASE, SLOPE AWAY FROM SUPPORT (TYP.)
4. FINISHED GRADE
5. NIC. COORDINATE WITH OWNER FOR OFOI ENCLOSURE AND CHARGER ASSEMBLY.
6. UNISTRUT P1000 ACROSS BACK OF BACKBOARD (TYP. 2 PLACES) FILE AND SMOOTH ALL SHARP EDGES.
7. CONDUITS, SEE PLANS FOR QUANTITIES (TYP.). PROVIDE RIGID VERTICAL RISERS AND SWEEPS, SEE SPECIFICATIONS.
8. PROVIDE 4-FOOT DEPTH WITH 3" PIPE SUPPORTS..
9. METAL WP LOCKING GFI RECEPTACLE, AND ENCLOSURE.
10. PROVIDE UNDERGROUND WEATHER PROOF JUNCTION BOX. COORDINATE WITH OWNER.
11. PROVIDE RAISED PAD WITH MOWSTRIP TO EXTEND NOT LESS THAN 6" FROM EDGE OF INSTALLED SUPPORTS/EQUIPMENT.
12. PROVIDE PAD CUT-OUTS FOR CONDUITS WITH COMPACTED CRUSHED GRAVEL FLUSH WITH TOP OF PAD.

2 E3.00 PANEL MOUNTING DETAIL

NTS

Oldcastle Precast

Power & Energy

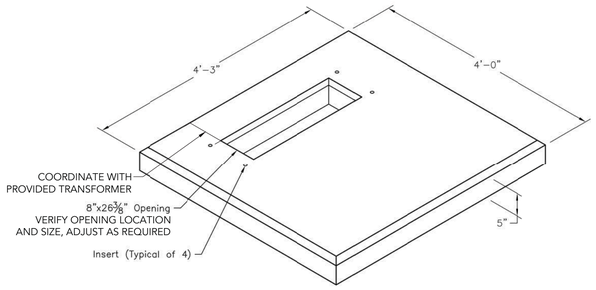
File: 260UETPAD-4851_F

48" x 51" x 5" Transformer Pad

EXAMPLE **Model: PAD-4851** (OR APPROVED)

48"x51" Concrete Pad

Weight – 975 Lbs.
EXAMPLE Item# – 1804500 (OR APPROVED)



3 E3.00 TRANSFORMER PAD (NOT BY EOR) ⚠1

NTS

Oldcastle Precast

Power & Energy

File: 260UEPPB-466-EL_F

4'-0" x 6'-6" I.D. Electrical Pull Box

EXAMPLE **Model: PB-466-EL** (OR APPROVED)

Oldcastle Precast

Power & Energy

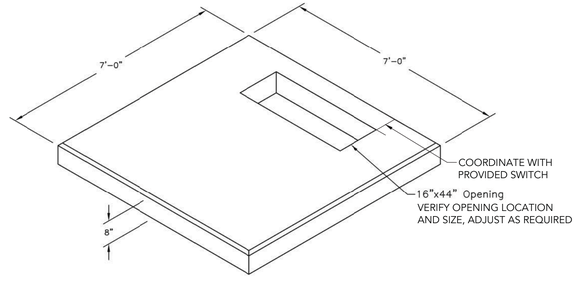
File: 260UETPAD-8484_F

84" x 84" x 8" Transformer Pad

EXAMPLE **Model: PAD-8484** (OR APPROVED)

84"x84" Concrete Pad

Weight – 4400 Lbs.
EXAMPLE Item# – 1805300 (OR APPROVED)

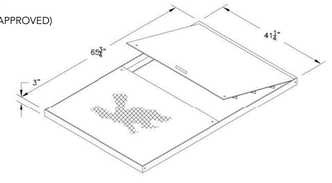


4 E3.00 IATS PAD DETAIL (NOT BY EOR)

NTS

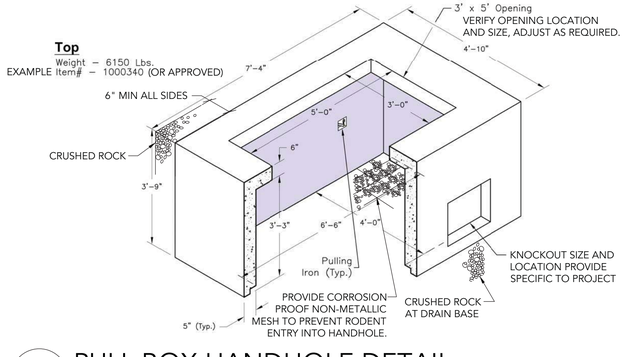
Hinged H10 Cover

Weight – 470 Lbs.
EXAMPLE Item# – 7205600 (OR APPROVED)



Top

Weight – 6150 Lbs.
EXAMPLE Item# – 1000340 (OR APPROVED)



5 E3.00 PULL BOX HANDHOLE DETAIL

NTS

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SALEM, OREGON 97301
503-447-5030
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EOU INLOW HALL - GENERATOR DESIGN

ONE UNIVERSITY BLVD. LA GRANDE OR, 97850

100% CONSTRUCTION DOCUMENTS

REVISIONS		
SYM.	DATE	DESIGN/CHECK
⚠1	MAR. 11, 2024	BC/MJC

23-137

DESIGN: BC
DRAWN: BC/AM
CHECKED: MC

MAR. 11, 2024

DETAILS

SHEET INDEX

E3.00

Item 1 Sign attendance sheet – name, organization, title, and phone number

Item 2 General Project Information

A. Project Description: Medium voltage generator, generator pad, 3.600 lf of conduits & wiring, splice to an existing feeder, reprogramming of the ATS.

B. Due Friday March 15, 2024, 2:00 PM, subcontractor disclosure by 4:00 PM.

C. Request for clarification, change, or bid document protest, in writing ends 5:00 PM March 8, 2024

D. Bid Bond required, not less than 10% of the amount bid.

E. Project funded 100% by EOU CIR XI-Q Bond Funds (BOLI Wages); potentially Article XI-G Bond Series No. 2023 funds – requiring apprenticeship requirements (see Additive Alternate No. 2 in Bid Schedule)

F. The quantities indicated are approximate. Payment is for what is installed, not what is in the bid schedule.

G. Contract Time 3/31/24 to 6/30/25; flexible, long lead time, funding expiration; concurrent work with current renovation is preferred.

H. Liquidated Damages is $1,000 per day for each calendar day the Work remains uncompleted.

I. Work Hours 7:00 AM to 5:00 PM.

J. Substitutions per Section 01 63 10 in Contract Documents.

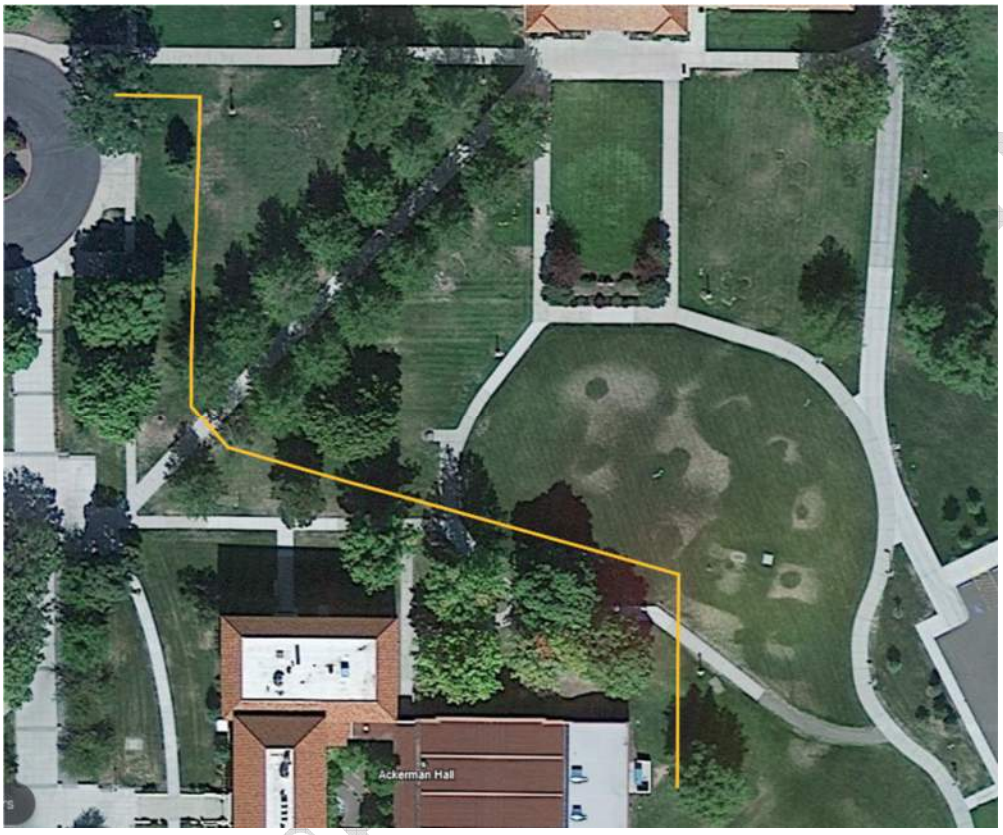
K. Site is under an Archaeological Permit. EOU will hire an archaeologist to observe all excavation activities.

L. Utility crossing of existing steam pipe & condensate return line to/from Inlow Hall. EOU will hire a private locator prior to start of exaction activities. See Sheet E2.00

M. Maximum trench depth is 48” and maximum width is 36”. See Detail 1 on Sheet E3.00.

N. Splice will be made in existing box:

O. Revised Exhibit for Trench Alignment: For Context only, refer to revised Sheet E2.00 in Attachment 2 of Addenda No. 1



Item 3 Open Questions

Item 4 Site Walk Through

EASTERN OREGON UNIVERSITY

EOU EMERGENCY BACKUP POWER SYSTEM
EASTERN OREGON UNIVERSITY – F&P DEPARTMENT
LA GRANDE, OREGON

Optional Pre-Bid Conference • March 7, 2024 1:00 PM

No.	Name (print or write clearly)	Representing/Title	Address (street, city, zip)	Telephone	Email
1	John Garlitz	EOU.	One University Blvd	541-805-0807	jgarlitz@eou.edu
2	Scot Leonard	All Phase	224 Elkhorn Dr.	541-805-5733	allphase_electrical@fiah
3	Jared Teeter	MBGC	La Grande	541-963-7096	jteeter@mikebeam
4	Jerry Brandt	Allied DCS	Hermiston	541-571-0740	jerry.brandt@alliedcs.com
5	JEFF/HANLY	ALLIED DCS	HERMISTON	541-701-7524	Jeff.Hanly@alliedcs.com
6	DOUG MURPHY	CB Const.	LA GRANDE	541-210-0907	Doug@CBConst.us
7	Sarah Hollenbeck	EOU		206-423-8705	shollenbeck@eou.edu
8	ANN FISHBACK	CB CONST	1202 HOMAS	5038059983	ann.fishback@gmail.com
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