HUMBOLDT STATE UNIVERSITY

February 9, 2021

To All Prospective Bidders

SUBJECT: IFB #PW20-1, Emergency Power Generators

Addendum #1

The following changes, omissions and/or additions to the Bidding Documents shall apply to proposals made for and to the execution of the various parts of the work affected thereby and all other conditions shall remain the same. In case of conflict between Bidding Documents and this Addendum, this Addendum shall govern.

1. Exhibit G1B, Forbes Drawings and Specifications

See the attached Addendum from the electrical contractor.

2. Pre-bid on Campus Walk-through

To schedule a pre-bid walk through, please email Addie. Dunaway@humboldt.edu . All pre-bid walk-throughs must be scheduled and completed no later than Tuesday, February 16^{th} , 2021 at 5 p.m.

-END OF ADDENDUM-

Contracts & Procurement

Addie Dunaway Procurement Specialist

Humboldt State University HSU Critical Electrical Generation

SECTION 00 91 11 ADDENDUM NUMBER 1

PARTICULARS

- 1.01 DATE: 01/25/2021
- 1.02 PROJECT: 1901734 HSU CRITICAL ELECTRICAL GENERATION
- 1.03 OWNER'S PROJECT NUMBER: XPL 181
- 1.04 UNIVERSITY: HUMBOLDT STATE UNIVERSITY
- **TO: PROSPECTIVE BIDDERS:**
- 2.01 THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINAL PROCUREMENT DOCUMENTS DATED 01/07/2021, WITH AMENDMENTS AND ADDITIONS NOTED BELOW.
- 2.02 ACKNOWLEDGE RECEIPT OF THIS ADDENDUM IN THE SPACE PROVIDED IN THE BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.
- 2.03 THIS ADDENDUM CONSISTS OF 1 PAGE AND THE FOLLOWING DRAWINGS:.

CHANGES TO DRAWINGS:

3.01 DRAWING E-1.1 - FORBES FIRST FLOOR PLAN:

- A. Replace Sheet E-1.1 in its entirety, reflecting the following modifications:
 - 1. Deleted feeder for circulation pump.

3.02 DRAWING E-4.1 - FORBES GYMNASIUM COGEN UNIT FLOOR PLAN:

- A. Replace Sheet E-4.1 in its entirety, reflecting the following modifications:
 - 1. Refeed circulation pump from Panel G01.

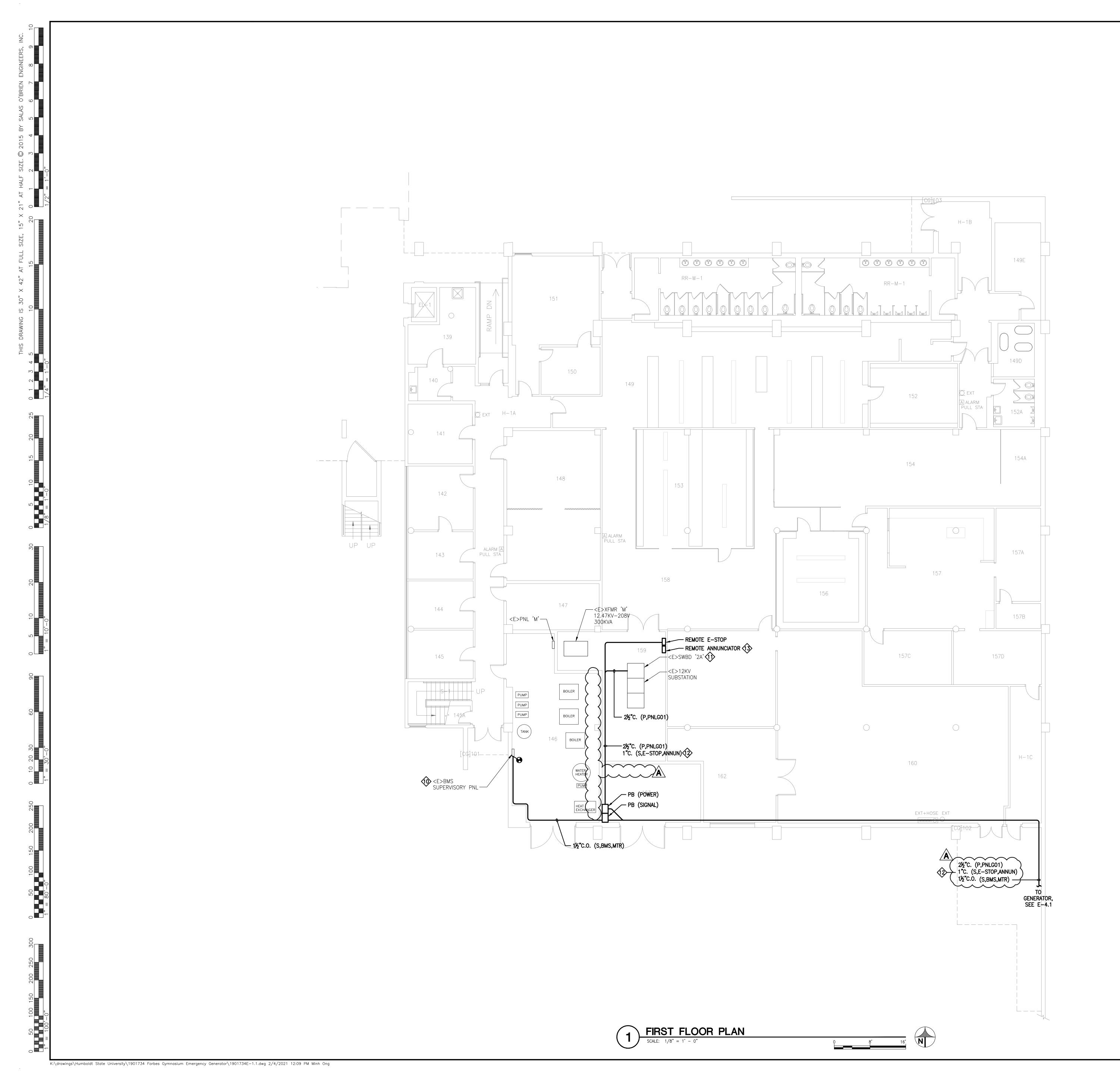
3.03 DRAWING E-6.1 - FEEDER AND EQUIPMENT SCHEDULES, AND SIGNAL LINE DIAGRAM:

- A. Add Sheet E-6.1, reflecting the following changes:
 - 1. New Panel Schedule.

3.04 DRAWING MS-4.1 - PARTIAL SITE PLAN:

- A. Replace Sheet MS-4.1 in its entirety, reflecting the following modifications:
 - Provide new VFD for recirculation pump.

END OF ADDENDUM NUMBER 1



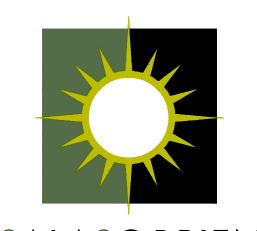
GENERAL SHEET NOTES

- A. PREPARE A SPECIAL METHOD OF PROCEDURE AND COORDINATE THE SHUTDOWN OF ANY DEVICE WITH FACILITIES ENGINEERS. SHUTDOWN MUST BE SCHEDULED.PROVIDE TEMPORARY POWER AS NEEDDED.
 - B. BEFORE RUNNING ANY FEEDERS TO PANELS BEING RE-CIRCUITED CONFIRM FEEDER SIZE AND ARRAGEMENT (1PHASE, 3 PHASE, 3W, 4W).REPORT DISCREPANCIES TO ENGINEER PRIOR TO CHANGING FEEDERS CALLED FOR
 - ON DRAWINGS.

 C. DEVICE SHOWN AS EXISTING SHALL REMAIN CONNECTED UNLESS OTHERWISE NOTED. WIRING DEVICES THAT MAY BE AFFECTED BY DEMOLITION AND NEW
 - D. D.PATCH WALL, ROOF PENETRATION, CEILING AND ANY OTHER OPENINGS LEFT BY DEMO'D EQUIPMENT/CONDUITS, ETC. MATCH ADJACENT CONSTRUCTION AND FINISH.
 - E. FIRE SEAL ALL RATED PENETRATIONS.

WORK SHALL BE RECONNECTD.

- F. DISCONNECT TEMPORARY POWER AND EQUIPMENT AFTER ALL WORK IS DONE.
- G. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND ESTIMATING THE WORK INVOLVED IN THE EQUIPMENT INSTALLATION PRIOR TO BIDDING.CAREFULLY INVESTIGATE AREA TO DETREMINE IF SPECIAL INSTALLATION PROVISIONS WILL BE NEEDED SUCH AS DISASSEMBLING OF EQUIPMENT, USE OF CRANES, ETC.
- H. BEFORE ORDERING EQUIPMENT, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING EQUIPMENT MANUFACTURER IF DISASSEMBLY IS REQUIRED. WHEN ASSEMBLING EQUIPMENT IN THE FIELD, CONTRACTOR SHALL HIRE A MANUFACTURER'S REPRESENTATIVE/TECHNICIAN TO SUPURVISE THE ASSEMBLY OF THE EQUIPMENT. EQUIPMENT SHALL BE UL-LISTED AFTER IT HAS BEEN REASSEMBLED.



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305 South 11th Street San Jose, California 95112-2218 877.725.2755 | 877.925.1477 (f)

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National **Strength.** Local **Action.**

This project has demonstrated conformance with applicable codes and standards established by statute and University policy. Based on this determination these documents are

'APPROVED FOR CONSTRUCTION'

Michael Fisher
Campus Deputy Building Official
Humboldt State University
The California State University

Permit #:_______
Other approvals, as applicable:

SFM Approval:______
DSA Access Approval:______

Mech.Peer Review:

CALIFORNIA STATE FIRE MARSHAL

Seismic Peer Review:_

APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. Set of approved plans shall be available on the project site at all times.



REFERENCE SHEET NOTES

NEW:

10. CONFIRM EXACT LOCATION IN FIELD.

- 11. EXISTING SWITCHBOARD TO BE MODIFIED. PROVIDE 100A/3P AND 20A/1P CIRCUIT BREAKER, MATCH SCCR RATING OF SWITCHBOARD. PROVIDE NEW BAKELITE LABEL FOR ALL NEW AND EXISTING CIRCUIT BREAKERS. UPDATE CABINET SECTION NAMEPLATE WITH CORRECT VOLTAGE. CORRECT VOLTAGE IS 208 VOLTS.
- 12. ROUTE 1"C. (4)#12: (2) FOR REMOTE E-STOP AND (2) FOR REMOTE ANNUNCIATOR. CONFIRM FINAL LOCATION OF DEVICES WITH UNIVERSITY.
- 13. PROVIDE AND INSTALL REMOTE ANNUNCIATOR. ANNUNCIATIOR SHALL HAVE ALL OF THE REQUIRED VISUAL AND AUDIBLE INDICATORS AND SHUTDOWNS PER NFPA 110 TABLE 5.6.5.2. COORDINATE LOCATION WITH THE UNIVERSITY.

HUMBOLDT STATE UNIVERSITY

1 HARPST STREET ARCATA, CA 95521

FORBES GYMNASIUM EMERGENCY GENERATOR

100115	_	
ISSUE	<u>-</u>	
MARK	DATE	DESCRIPTION
	05/19/20	PROGRESS SET
	01/07/21	100% CD
A		ADDENDUM #1

	SOBE PROJECT NO:	1901734
	DATE:	02/04/2
	DRAWN BY:	
	CHECKED BY:	
	APPROVED BY:	
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SHEET TITLE

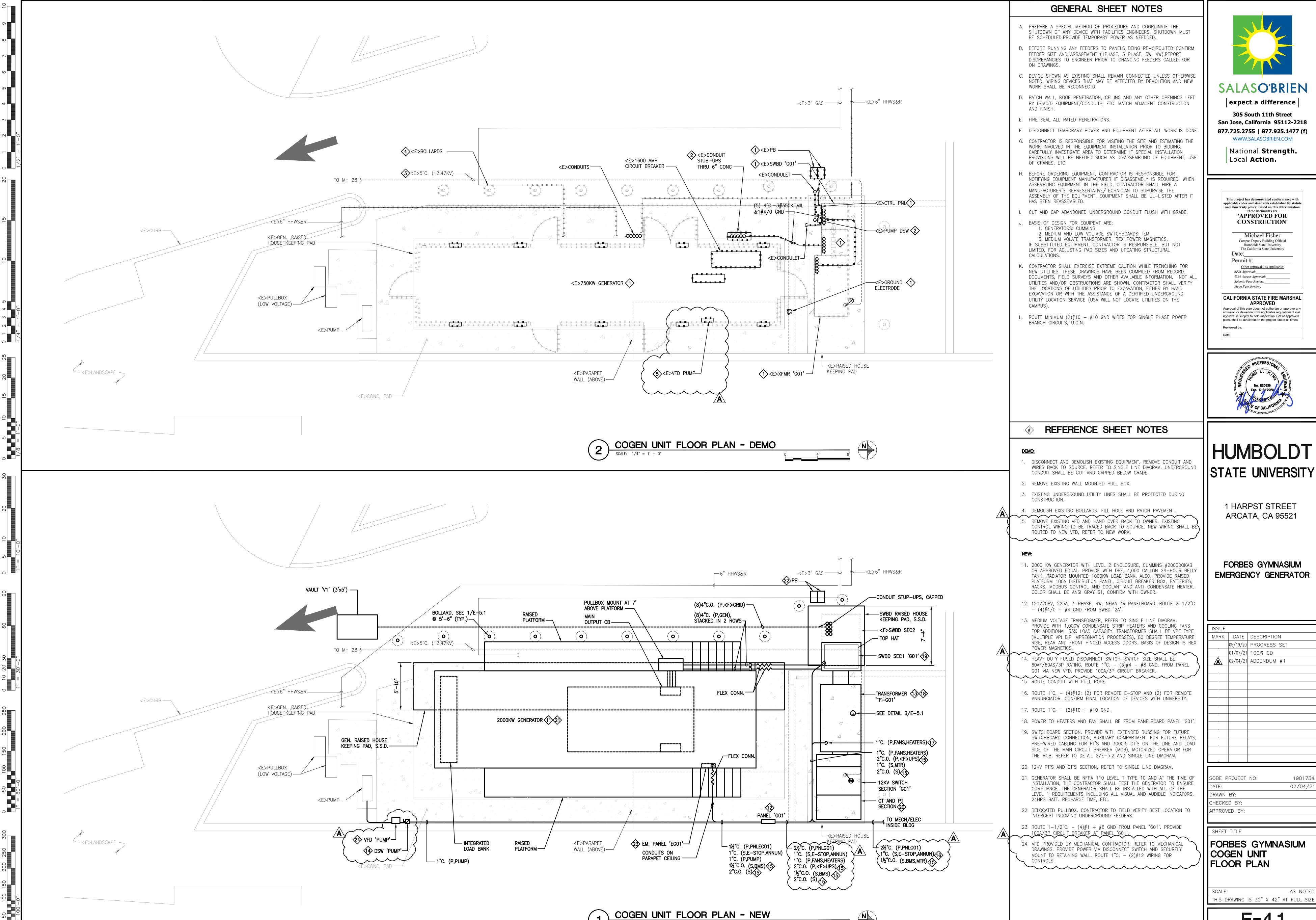
FORBES
FIRST FLOOR PLAN

SCALE:

THIS DRAWING IS 30" X 42" AT FULL SIZ

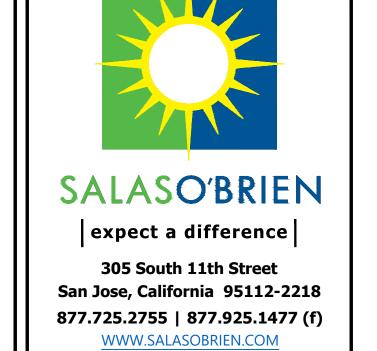
E-1.1

SHEET



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LOW VOLTAGE (600V) FEEDER SCHEDULE							
3-PHASE, 3-WIRE					3-PHASE, 4-WIRE		
SYMBOL	CONDUIT	CONDUCTORS	GROUND	SYMBOL	CONDUIT	CONDUCTORS	GROUND
20G	3/4"C	(3) #12	#12	20NG	3/4°C	(4) #12	#12
30G	3/4°C	(3) #10	#10	30NG	3/4°C	(4) #10	#10
40G	1 "C	(3) #8	#10	40NG	1"C	(4) #8	#10
50G	1"C	(3) #6	#10	50NG	1"C	(4) #6	#10
60G	1-1/4°C	(3) #4	#10	60NG	1-1/4°C	(4) #4	#10
70G	1-1/4"C	(3) #4	#8	70NG	1-1/4"C	(4) #4	#8
80G	1-1/2°C	(3) #2	#8	80NG	1-1/2°C	(4) #2	#8
90G	1-1/2°C	(3) #2	#8	90NG	1-1/2°C	(4) #2	#8
100G	2"C	(3) #1	#8	100NG	2"C	(4) #1	#8
125G	2"C	(3) #1	#6	125NG	2"C	(4) #1	#6
150G	2"C	(3) #1/0	#6	150NG	2"C	(4) #1/0	#6
175G	2"C	(3) #2/0	#6	175NG	2"C	(4) #2/0	#6
200G	2-1/2°C	(3) #3/0	#6	200NG	2-1/2°C	(4) #3/0	#6
225G	2-1/2°C	(3) #4/0	#4	225NG	2-1/2°C	(4) #4/0	#4
250G	3"C	(3) #250 Kcmil	#4	250NG	3"C	(4) #250 Kcmil	#4
300G	3"C	(3) #350 Kcmil	#4	300NG	3"C	(4) #350 Kcmil	#4
350G	3-1/2°C	(3) #500 Kcmil	#3	350NG	4"C	(4) #500 Kcmil	#3
400G	4"C	(3) #600 Kcmil	#3	400NG	4"C	(4) #600 Kcmil	#3
450G	(2) 2-1/2°C	2 SETS: (3) #4/0	(2) #2	450NG	(2) 2-1/2°C	2 SETS: (4) #4/0	(2) #2
500G	(2) 3°C	2 SETS: (3) #250 Kcmil	(2) #2	500NG	(2) 3"C	2 SETS: (4) #250 Kcmil	(2) #2
600G	(2) 3°C	2 SETS: (3) #350 Kcmil	(2) #1	600NG	(2) 3"C	2 SETS: (4) #350 Kcmil	(2) #1
700G	(2) 3-1/2°C	2 SETS: (3) #500 Kcmil	(2) #1/0	700NG	(2) 4"C	2 SETS: (4) #500 Kcmil	(2) #1/0
800G	(3) 3"C	3 SETS: (3) #300 Kcmil	(3) #1/0	800NG	(3) 3"C	3 SETS: (4) #300 Kcmil	(3) #1/0
1000G	(3) 3°C	3 SETS: (3) #400 Kcmil	(3) #2/0	1000NG	(3) 3-1/2°C	3 SETS: (4) #400 Kcmil	(3) #2/0
1200G	(4) 3"C	4 SETS: (3) #350 Kcmil	(4) #3/0	1200NG	(4) 3"C	4 SETS: (4) #350 Kcmil	(4) #3/0
1600G	(5) 3"C	5 SETS: (3) #400 Kcmil	(5) #4/0	1600NG	(5) 3-1/2"C	5 SETS: (4) #400 Kcmil	(5) #4/0
2000G	(5) 4"C	5 SETS: (3) #600 Kcmil	(5) #250 Kcmil	2000NG	(5) 4"C	5 SETS: (4) #600 Kcmil	(5) #250 Kcmi
2500G	(6) 4"C	6 SETS: (3) #600 Kcmil	(6) #350 Kcmil	2500NG	(6) 4"C	6 SETS: (4) #600 Kcmil	(6) #350 Kcmi
3000G	(8) 4"C	8 SETS: (3) #600 Kcmil	(8) #400 Kcmil	3000NG	(8) 4°C	8 SETS: (4) #600 Kcmil	(8) #400 Kcmi
4000G	(10) 4"C	10 SETS: (3) #600 Kcmil	(10) #500 Kcmil	4000NG	(10) 4"C	10 SETS: (4) #600 Kcmil	(10) #500 Kcm



National Strength. Local **Action.**

This project has demonstrated conformance with applicable codes and standards established by statute and University policy. Based on this determination these documents are 'APPROVED FOR CONSTRUCTION'

Michael Fisher Campus Deputy Building Official Humboldt State University The California State University

Permit #:_ Other approvals, as applicable: SFM Approval:____ DSA Access Approval:___ Seismic Peer Review:__ Mech.Peer Review:

CALIFORNIA STATE FIRE MARSHAL

APPROVED Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. Set of approved plans shall be available on the project site at all times.



HUMBOLDT STATE UNIVERSITY

REFERENCE SHEET NOTES

SWITCHGEAR BUILDING. CONTRACTOR TO PULL PULL ROPE BEHIND WIRING AND LABEL POINT TO POINT.

1. REMOVE LOW VOLTAGE WIRING FROM GENERATOR BACK TO MAIN

1 HARPST STREET ARCATA, CA 95521

FORBES GYMNASIUM **EMERGENCY GENERATOR**

ISSUE		
MARK	DATE	DESCRIPTION
	05/19/20	PROGRESS SET
	01/07/21	100% CD
Â	02/04/21	ADDENDUM #1

SOBE PROJECT NO:	1901734
DATE:	02/04/21
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

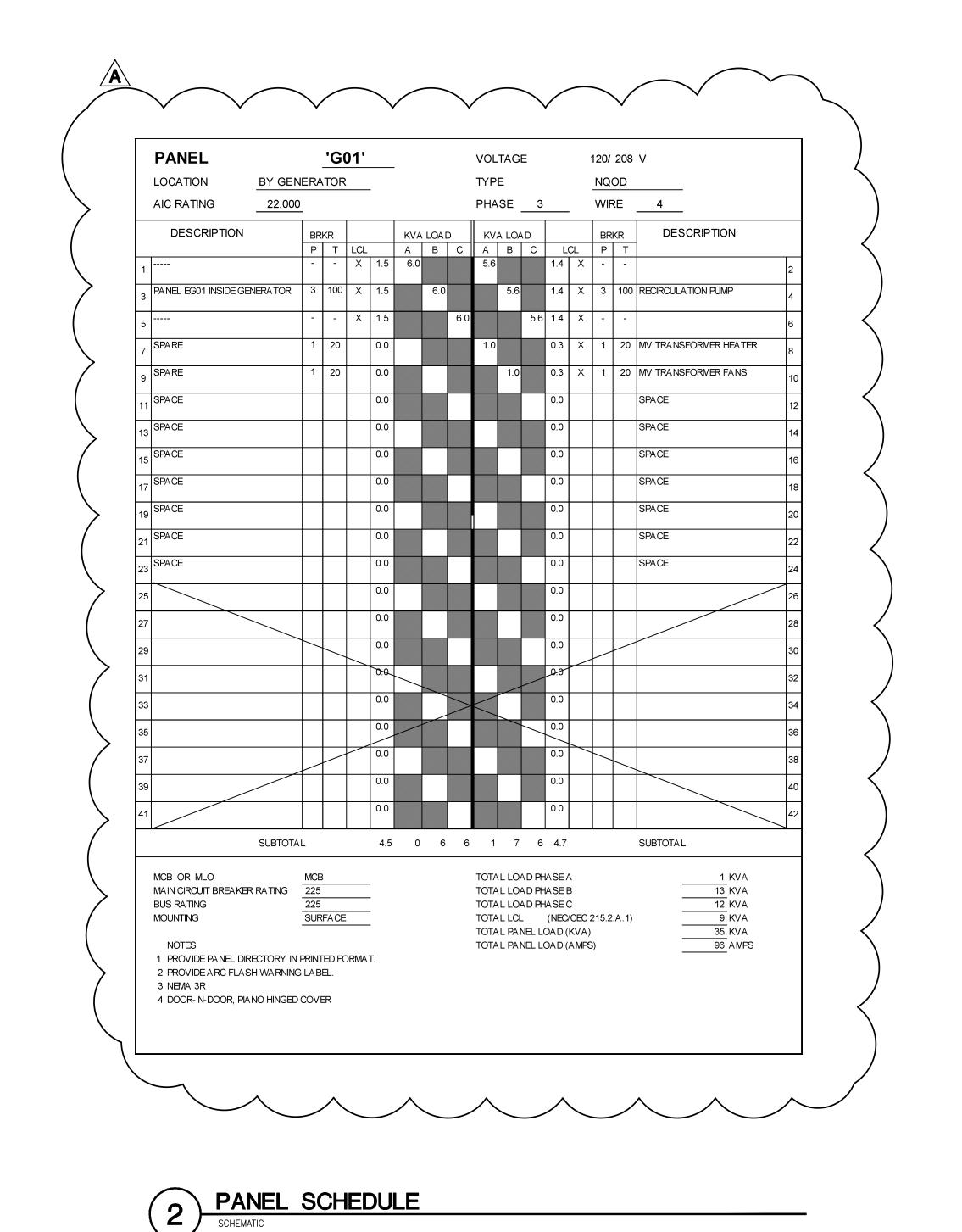
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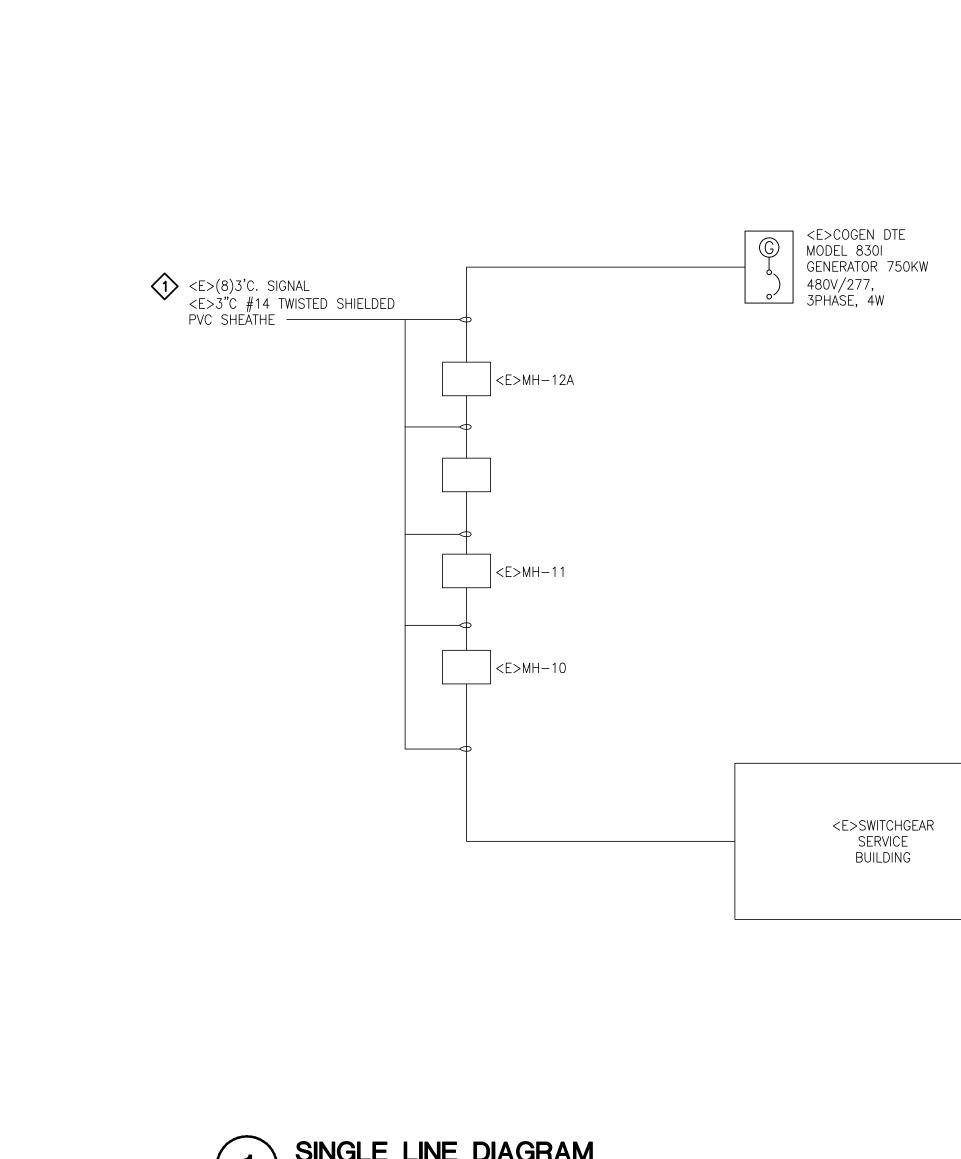
FEEDER AND EQUIPMENT SCHEDULES, AND SIGNAL LINÉ DIAGRAM

THIS DRAWING IS 30" X 42" AT FULL SIZ

AS NOTE



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SINGLE LINE DIAGRAM
SCHEMATIC



- A. REFER TO ELECTRICAL SHEETS FOR GENERATOR EQUIPMENT DEMOLITION.
- B. ALL GAS PIPING DISCONNECTED FROM DEMOLISHED GENERATOR SHALL BE
 - C. IN LOCATIONS WHERE GAS PIPING IS DEMOLISHED, DEMOLISH <E> PIPE
 - D. ALL HARDSCAPING AND LANDSCAPING DISTURBED FOR DEMOLITION OF <E>
 - E. CONTRACTOR SHALL VERIFY GAS PRESSURE OF <E> GAS PIPING
 - F. ALL EXPOSED NUTS, BOLTS, FASTENERS, ANCHORS, UNISTRUT SUPPORT,
 - G. ALL EXPOSED NUTS, BOLTS, FASTENERS, ANCHORS, UNISTRUT SUPPORT,

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- 1. DEMO <E> GAS CONNECTION AND PIPING TO GENERATOR. SEE DETAIL
- SHUTOFF VALVE VAULT. CAP PIPING DOWNSTREAM OF EXISTING SHUT OFF VALVE. PIPING SHALL BE CAPPED WITHIN <E> VAULT AND A PLASTIC TAG STATING "ABANDONED" SHALL BE INSTALLED ON THE ABANDONED
- 5. DEMO <E> HEAT RECOVERY HYDRONIC PIPING AT UNIT. RECONNECT <E> 6" HEAT RECOVERY LOOP PIPING UNDERGROUND. CONTRACTOR SHALL FIELD VERIFY <E> PIPE MATERAL AND SIZE, AND PROVIDE AND INSTALL APPROPRIATE FITTINGS AND PIPE MATERIAL TO RECONNECT PIPING FOR A
- 6. PROTECT <E> UNDERGROUND HYDRONIC PIPING IN PLACE. LOOP SHALL
- BIOSCIENCE BUILDING 3B, SCIENCE BUILDING 3A AND SCIENCE BUILDING
- 8. DEMOLISH <E> UNDERGROUND HHWS/R PIPING WHERE IT CONFLICTS WITH NEW GENERATOR PAD FOOTPRINT. CONTRACTOR SHALL FIELD

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Michael Fisher Campus Deputy Building Official Humboldt State University

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plans shall be available on the project site at all times.

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1 HARPST STREET ARCATA, CA 95521

FORBES GYMNASIUM **EMERGENCY GENERATOR**

ISSU	Ε		
MAR	<	DATE	DESCRIPTION
		05/19/20	PROGRESS SET
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A		02/04/21	ADDENDUM #1

SOBE PROJECT NO:	1901734
DATE:	02/04/21
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

PARTIAL SITE PLAN

THIS DRAWING IS 30" X 42" AT FULL SIZ