### **ADDENDUM #1 - APRIL 5, 2023**

RE: Coquille High School

CTE Shop Renovation

**Project #21.03** 

FROM: HGE ARCHITECTS, Inc.

333 South 4<sup>th</sup> Street

Coos Bay, Oregon 97420

541-269-1166

#### TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Documents dated March 2023, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

COOS BAY, OREGO

This Addendum consists of **ONE (1)** page(s) together with the following attachments:

- Sheet E1 Electrical Panel Schedules
- Sheet E2 Electrical Plans Demolition
- Sheet E3 Electrical Plans Power & Data
- Sheet E4 Electrical Plans Lighting

**CHANGES TO PROJECT MANUAL: None.** 

#### **CHANGES TO DRAWINGS:**

- 1. ADD Sheet E1 Electrical Panel Schedules
- 2. ADD Sheet E2 Electrical Plans Demolition
- 3. ADD Sheet E3 Electrical Plans Power & Data
- 4. ADD Sheet E4 Electrical Plans Lighting
- 5. **NOTE**: Mechanical, Plumbing, and Fire System drawings were added to available Drawings set April 3, 2023. Drawing set including this addendum has been updated on Architect's website at <a href="https://www.hge1.com/bidding-area">www.hge1.com/bidding-area</a>.

#### SUBSTITUTION APPROVALS: None.

SPECIFIED SECTION	SPECIFIED ITEM	APPROVED

#### **END OF ADDENDUM #1**

YMBOLS	ONELINE DIAGRAM  MOLDED CASE CIRCUIT BREAKER	NOTES	SYMBOLS +	LIGHT FIXTURES WHEN ADDED TO LIGHT FIXTURE SYMBOL-	NOTES
w	TRANSFORMER		<b>-   </b>	INDICATES WALL OR BRACKET MOUNTED LIGHT FIXTURE SURFACE OR PENDANT MOUNTED LIGHT FIXTURE OUTLET .	
$\mathcal{M}$			FD_2.	(NUMBER INDICATES CIRCUIT , CAPITAL LETTER	
_			Ä	INDICATES FIXTURE TYPE , LOWER CASE LETTER INDICATES SWITCHING CONTROL , TYPICAL FOR ALL	
	CURRENT TRANSFORMER(6)			LIGHT FIXTURES)	
<u> </u>	METER, TYPE AS NOTED			RECESSED CEILING LIGHT FIXTURE  RECESSED WALL WASHER, UNSHADED SIDE INDICATES	
<u>÷</u>	GROUND			DIRECTION OF WALL WASHING	
	NEUTRAL BUS			FLUORESCENT LIGHT FIXTURE	
<b>1 1 1 1 1 1 1 1 1 1</b>	MOTOR WITH MOTOR NUMBER (SEE EQUIPMENT SCHEDULE)			FLUORESCENT STRIP LIGHT FIXTURE	
	COMBINATION FIRE SMOKE DAMPER	<b>(2</b> )		SINGLE FACE EXIT SIGN WITH NUMBER OF DIRECTIONAL	
$\langle \mathbf{x} \rangle$	EQUIPMENT NUMBER (SEE EQUIPMENT SCHEDULE)			ARROWS AS SHOWN , CEILING MOUNTED . SOLID QUADRANT INDICATES FACE.	
급	NON-FUSED DISCONNECT SWITCH		SYMBOLS	SWITCHES	NOTES
ď	FUSED DISCONNECT SWITCH (FUSES SIZED PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS UNO.)		\$	SINGLE POLE LIGHT SWITCH	+ 46"
₩	COMBINATION MOTOR STARTER / FUSED DISCONNECT		\$3	THREE WAY LIGHT SWITCH	+ 46"
	SWITCH SUB-DISTRIBUTION PANELBOARD OR SWITCHBOARD		\$ <sub>M</sub>	MOTOR RATED SWITCH	+ 46"
<u> </u>	BRANCH CIRCUIT PANELBOARD		Mc Mw	OCCUPANCY SENSOR - C=CEILING W=WALL MOUNTED	
	MISCELLANEOUS PANEL AS NOTED			PHOTOELECTRIC SWITCH	
<u> </u>			$+$ $ \overline{}$	, / Canada a de la compania del la compania de la compania del la compania de la compania del compania de la compania de la compania del	
**************************************	MAIN DISTRIBUTION PANELBOARD		SYMBOLS	SECURITY	NOTES
<u> </u>	TRANSFORMER		<b>」</b> □<	SECURITY CAMERA. PROVIDE J-BOX WITH CAT 6 CABLE	<b>(1)</b>
YMBOLS	RACEWAYS	NOTES	7 ©	ELECTRONICALLY CONTROLLED LOCK	
·	BRANCH CIRCUIT INSTALLED CONCEALED FROM FINISH		<b>→</b>	DOOR POSITION SWITCH	
X	SPACES . PROVIDE GROUND CONDUCTOR AS INDICATED			MOTION DETECTOR (OMNI DIRECTIONAL)	1
	IN PANEL SCHEDULE . GROUND CONDUCTOR NOT INCLUDED IN HASH MARK INDICATION .		CR	CARDREADER	+ 44"
	BRANCH CIRCUIT INSTALLED IN OR BELOW FLOOR .		SK	KEYPAD	+ 44"
<b>/</b> //,	PROVIDE GROUND CONDUCTOR AS INDICATED IN PANEL SCHEDULE, GROUND CONDUCTOR NOT INCLUDED IN				·
	HASH MARK INDICATION .		SYMBOLS	AUDIO / VISUAL	NOTES
	BRANCH CIRCUIT HOME RUN TO PANEL , HASH MARKS INDICATES NUMBER OF CONDUCTORS . PROVIDE		S	CEILING SPEAKER	
KK LA-	GROUND CONDUCTOR AS INDICATED IN PANEL		HS	WALL MOUNTED SPEAKER	+ 80"
1,3,5	SCHEDULE . GROUND CONDUCTOR NOT INCLUDED IN HASH MARK INDICATION .		+(S)<	WALL MOUNTED SPEAKER HORN	+ 80"
_			(TV)	TELEVISION (VIDEO) OUTLET	+ 18"
	LOW VOLTAGE EMPTY CONDUIT WITH PULL STRING - 34" UNO		IR	INTERCOM REQUEST STATION (SPEAKER & PUSH BUTTON)	+ 44"
PB	PULL BOX , 6" x 6" x 4" UNLESS NOTED OTHERWISE				1
<u> </u>	JUNCTION BOX , 4" SQUARE UNLESS OTHERWISE NOTED		SYMBOLS	FIRE ALARM	NOTES
	4" CONDUIT SLEEVE WITH BUSHINGS AT BOTH ENDS .  LOCATE AT 6" ABOVE ACCESSIBLE CEILING .			MANUAL PULL STATION	+ 44"
	FIRESTOP WITH UL APPROVED SYSTEM.		$\bigcirc \bigvee \bigcirc$	COMBINATION VISUAL / AUDIBLE ALARM	+ 80" AFTB
-	CONDUIT STUB-OUT, CAP & MARK WITH APPROVED MARKER			VISUAL STROBE ALARM	+ 80" AFTB
<del></del>	CONDUIT, UP		P	PHOTOELECTRIC SMOKE DETECTOR (CEILING NOUNTED UNO)	
<del></del>	CONDUIT, DOWN			IONIZATION SMOKE DETECTOR (CEILING MOUNTED UNO)	
YMBOLS	RECEPTACLES	NOTES	¬ 🕒	MAGNETIC DOOR HOLDER	
IMBOLS	WHEN ADDED TO A SYMBOL , INDICATES OUTLET	HOIES	$ \bigcirc$	HEAT DETECTOR (CEILING MOUNTED, 135° UNO)	
•	MOUNTED WITH BOTTOM OF OUTLET AT 2" ABOVE				T
⊖	COUNTER TOP OR BACK SPLASH UNO.  DUPLEX CONVENIENCE OUTLET	+ 18"	SYMBOLS	ABBREVIATIONS	NOTES
•	GFI DUPLEX CONVENIENCE OUTLET	+ 18"	AIC	AMPERE INTERRUPTING CAPACITY	
		+ 18"	- AMP	AMPERE	
	DUPLEX OUTLET CONNECTED TO EMERGENCY CIRCUIT		_	CONDUIT	
<b>*</b>	DOUBLE DUPLEX CONVENIENCE OUTLET	+ 18"	EC	EMPTY CONDUIT (WITH PULL-IN LINE)	
<b>3</b>	SINGLE PHASE SPECIAL PURPOSE OUTLETS, AS NOTED	+ 18" UNO	ELEC	ELECTRICAL	
	THREE PHASE SPECIAL PURPOSE OUTLETS, AS NOTED		FAAP	FIRE ALARM ANNUNCIATOR PANEL	
	FLUSH FLOOR OUTLET AS SHOWN		FACP	FIRE ALARM CONTROL PANEL	
YMBOLS	TELEPHONE / DATA	NOTES	G, GND	GROUND	
	WHEN ADDED TO SYMBOL , INDICATES OUTLET MOUNTED		GEN	GENERATOR	
•	WITH BOTTOM OF OUTLET AT 2" ABOVE COUNTER TOP OR		GFI	GROUND FAULT CIRCUIT INTERRUPTER TYPE	
			1 1	HORSEPOWER	
<b>₫</b> 0	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN	+ 18" (1)	-		
<b>4</b> ₂	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN	— X—	IG IG	ISOLATED GROUND	
<b>▼</b> w	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN 'W' ADDED TO SYMBOL INDICATES WALL MOUNTED	+ 60"	<del>                                   </del>	ISOLATED GROUND MECHANICAL	
- <b>√</b> w	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN 'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS	— X—	IG.	MECHANICAL MANUFACTURER	
<b>√</b> w <b>1 1</b> 2	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN 'W' ADDED TO SYMBOL INDICATES WALL MOUNTED	+ 60"	IG:	MECHANICAL	
<b>√</b> w <b>1 1</b> 2 <del>±</del> 11B	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN 'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS	+ 60" 1	IG MECH MFGR	MECHANICAL MANUFACTURER	24 HOUR 'ON'
<b>4</b> w <b>1 1</b> 2 <del>-</del> 11B	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN 'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND	+ 60"	IG MECH MFGR NEC	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE	24 HOUR 'ON'
<b>4</b> w <b>1 1</b> 2 <del>-</del> 11B	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN 'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND	+ 60" 1	IG MECH MFGR NEC NL	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT	24 HOUR 'ON'
<b>√</b> w <b>1 1</b> 2	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN 'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND	+ 60" 1	IG MECH MFGR NEC NL OFCI	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OUNER FURNISHED CONTRACTOR INSTALLED	24 HOUR 'ON'
▼ w 1 1 2 = 11B	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN  'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND  WIRELESS ACCESS PORT. PROVIDE (1) CATGA CABLES	+ 60" 1	IG MECH MFGR NEC NL OFCI	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED	24 HOUR 'ON'
▼ w d d 2 = TTB	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN 'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND	+ 60" 1	IG MECH MFGR NEC NL OFCI OFOI PB	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX	24 HOUR 'ON'
▼ w d d 2 = TTB	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN  'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND  WIRELESS ACCESS PORT. PROVIDE (1) CATGA CABLES	+ 60" 1	IG MECH MFGR NEC NL OFCI OFOI PB	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE	24 HOUR 'ON'
NO.	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN  'W' ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND WIRELESS ACCESS PORT. PROVIDE (1) CATGA CABLES	+ 60" 1	IG MECH MFGR NEC NL OFCI OFOI PB PH PNL	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE  PANEL	24 HOUR 'ON'
NO 1. ALL 2. ALI	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN  W ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND  WIRELESS ACCESS PORT. PROVIDE (1) CAT64 CABLES  TES SYMBOLS MAY NOT APPLY DIRECTLY TO THIS JOB.  MOUNTING HEIGHTS SHOWN ARE TO CENTERLINE OF DEVICE.	+ 60" 1	MECH MFGR NEC  NEC  NEC  NEC  NEC  NEC  NEC  NEC	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE  PANEL  POWER	24 HOUR 'ON'
NO 1. ALL 2. ALI	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN  W ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND WIRELESS ACCESS PORT. PROVIDE (1) CATGA CABLES  TES SYMBOLS MAY NOT APPLY DIRECTLY TO THIS JOB.	+ 60" 1	IG MECH MFGR NEC NL OFCI OFOI PB • PH PNL PUR SYS	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE  PANEL  POWER  SYSTEM	24 HOUR 'ON'
NO 1. ALL 2. ALL 3. ALI	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN  W ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND  WIRELESS ACCESS PORT. PROVIDE (1) CAT64 CABLES  SYMBOLS MAY NOT APPLY DIRECTLY TO THIS JOB.  L MOUNTING HEIGHTS SHOWN ARE TO CENTERLINE OF DEVICE  L MOUNTING HEIGHTS ARE TYPICAL ON PLANS,	+ 60" 1	IG MECH MFGR NEC NL OFCI OFOI PB PH PNL PWR SYS T	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE  PANEL  POWER  SYSTEM  TELEPHONE	24 HOUR 'ON'
NO- 1. ALL 2. ALL 3. ALI	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN  W ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND  WIRELESS ACCESS PORT. PROVIDE (1) CAT64 CABLES  TES SYMBOLS MAY NOT APPLY DIRECTLY TO THIS JOB.  MOUNTING HEIGHTS SHOWN ARE TO CENTERLINE OF DEVICE.	+ 60" 1	IG MECH MFGR NEC NL OFCI OFOI PB PH PNL PUR SYS T TTB	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE  PANEL  POWER  SYSTEM  TELEPHONE  TELEPHONE TERMINAL BOARD	24 HOUR 'ON'
VO . ALL 2. ALL 3. ALL	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN  W ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND  WIRELESS ACCESS PORT. PROVIDE (1) CAT64 CABLES  SYMBOLS MAY NOT APPLY DIRECTLY TO THIS JOB.  L MOUNTING HEIGHTS SHOWN ARE TO CENTERLINE OF DEVICE  L MOUNTING HEIGHTS ARE TYPICAL ON PLANS,	+ 60°1 1	IG MECH MFGR NEC NL OFCI OFOI PB PH PNL PWR SYS T TTB TYP	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE  PANEL  POWER  SYSTEM  TELEPHONE  TELEPHONE TERMINAL BOARD  TYPICAL	24 HOUR 'ON'
NO . ALL 2. ALL 3. ALL	BACKSPLASH UNO TELE/DATA. PROVIDE CABLES AS SHOWN  W ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN  TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND  WIRELESS ACCESS PORT. PROVIDE (1) CAT64 CABLES  SYMBOLS MAY NOT APPLY DIRECTLY TO THIS JOB.  L MOUNTING HEIGHTS SHOWN ARE TO CENTERLINE OF DEVICE  MOUNTING HEIGHTS ARE TYPICAL ON PLANS,  YED NOTES  PROVIDE 1" CONDUIT FROM OUTLET BOX TO ACCESSIBLE LOADOVE CEILING, UNLESS NOTED OTHERWISE. TERMINATE CO	+ 60" 1  1  1  CATION NDUITS WITH	IG MECH MFGR NEC NEC NEC OFOI OFOI PB PH PNL PUR SYS T TTB TYP UNO	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OWNER FURNISHED CONTRACTOR INSTALLED  OWNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE  PANEL  POWER  SYSTEM  TELEPHONE  TELEPHONE TERMINAL BOARD  TYPICAL  UNLESS NOTED OTHERWISE  YOLT	24 HOUR 'ON'
	BACKSPLASH UNO TELE./DATA. PROVIDE CABLES AS SHOWN  "W" ADDED TO SYMBOL INDICATES WALL MOUNTED FLOOR OUTLET WITH CABLES AS SHOWN TELEPHONE TERMINAL BOARD, 8" HIGH (WIDTH AS SHOWN), 34" FIRE RESISTIVE PLYWOOD WITH * 6 CU GND WIRELESS ACCESS PORT. PROVIDE (1) CATGA CABLES  SYMBOLS MAY NOT APPLY DIRECTLY TO THIS JOB.  L MOUNTING HEIGHTS SHOWN ARE TO CENTERLINE OF DEVICE L MOUNTING HEIGHTS ARE TYPICAL ON PLANS,  YED NOTES  PROVIDE 1" CONDUIT FROM OUTLET BOX TO ACCESSIBLE LO	+ 60" 1  1  1  CATION NOUITS WITH	IG MECH MFGR NEC NL OFCI OFOI PB PH PNL PWR SYS T TTB TYP UNO	MECHANICAL  MANUFACTURER  NATIONAL ELECTRIC CODE  NIGHT LIGHT  OUNER FURNISHED CONTRACTOR INSTALLED  OUNER FURNISHED OWNER INSTALLED  PULL BOX  PHASE  PANEL  POWER  SYSTEM  TELEPHONE  TELEPHONE TERMINAL BOARD  TYPICAL  UNLESS NOTED OTHERWISE	24 HOUR 'ON'

ΕX	ITZI	NG - RELOCATED						P	ΔN	ΙEL	' F	= '					F	AULT CURRENT =	7,6	46
20	0	AMP	MAIN	BRE	AKER	₹		120	/	20	8	YOL'	TS					3-PHASE, 4	-W	RE
FE	EDE	R SIZE				ALU	MINUM	1: 3"	C,	4 •	30	OO PH	1, <b>*</b> 4 C	#RD				FLUSH MO	TNL	ED
	ח חור	TOIDUTION	LTG	DEC	MOTOD	DATA	CVIC					MICC	DII A		DII C	TOTAL	AMDS	VITU SDADE		
		TRIBUTION			MOTOR		EXTG					MISC				TOTAL		WITH SPARE		###
		ID VA	4154	10968	696	0		_				0		4039	4660	15818	59	19773 VA		74
		Y FACTOR	125%	96%	100%	100%						100%								
DIV	ERSIF	IED VA	5193	10484	696	0	0	0				0	7246	4308	4819	16373	60	20466 VA		76
PL	Т	LOAD	VA	HP	PHW	GND	CDN	BKR		PH		BKR	CDN	GND	PHW	HP	VA	LOAD	Т	PL
1	L	LTS: ART ROOM	1147		12	12	1/2	20	1	A	1	20	1/2	12	12		720	REC: POTTERY	R	2
3	L	LTS: ART ROOM	1147		12	12	1/2	20	1	В	1	20	1/2	12	12		360	REC: POTTERY SNK	R	4
5	М	AH - 13	0		12	12	1/2	20	3	C	1	20	1/2	12	12		180	REC: POTTERY SNK	R	6
7	М	AH - 13	0							A	1	20	1/2	12	12		1608	SILK SCRN DRYER	R	8
9	М	AH - 13	0							В	1	20	1/2	12	12		720	REC: ART R□□M	R	10
11	R	REC: CLASS ROOM	900		12	12	1/2	20	1	C	1	20	1/2	12	12		900	REC: ART R□□M	R	12
13	R	REC: CLASS ROOM	900		12	12	1/2	20	1	A	1	20	1/2	12	12	1/2	900	REC: ART R□□M	R	14
15	R	REC: CUST / DRINK	360		12	12	1/2	20	1	8	1	20	1/2	12	12		0	REC: ART R□□M	R	16
17	L	LTS: CLASSRM	744		12	12	1/2	20	1	C	1	20	1/2	12	12		540	REC: OFFICE	R	18
19	L	LTS: STORAGE	248		12	12	1/2	20	1	A	1	20	1/2	12	12		900	REC: DARK R□□M	R	20
21	L	LTS: WOOD SHOP	372		12	12	1/2	20	1	8	1	20	1/2	12	12		720	REC: CPU LAB	R	22
23	L	LTS: STORAGE	496		12	12	1/2	20	1	C	1	20	1/2	12	12		720	REC: CPU LAB	R	24
25	М	KILN ROOM FAN	696	1/4	12	12	1/2	20	1	A	3	20	1/2	12	12		0	AH−14	М	26
27	R	REC: CPU LAB	360		12	12	1/2	20	1	В							0		М	28
29	R	REC: CPU LAB - DED	180		12	12	1/2	20	1	C							0		М	30
F							·		4/	4/20	ງ23							FED FROM PANEL	_ ′^	IDP'
ALL	. CIRC	CUIT CONDUCTORS SIZED	FOR COP	PER														23,05 Sch	edu	ıles

## ELECTRICAL SPECIFICATION

## GENERAL PROVISIONS

- 1. FURNISH LABOR, SUPERVISION, PERMITS, MATERIALS AND EQUIPMENT TO COMPLETE THE WORK REQUIRED IN PLANS AND BY THE CONTRACT DOCUMENTS.
- 2. ALL WORK SHALL CONFORM TO NATIONAL ELECTRIC CODE STANDARDS, OREGON ELECTRICAL SPECIALTY CODE, AND ALL CODES, RULES, AND REGULATIONS CURRENT OR LATEST EDITION ADOPTED BY AUTHORITIES HAVING JURISDICTION AT TIME OF PERMIT.
- 3. VERIFY ALL UTILITY REQUIREMENTS. COORDINATE POWER, TELEPHONE, AND CABLE SERVICE REQUIREMENTS WITH LOCAL SERVICE PROVIDER. CONTRACTOR TO PAY FOR ALL FEES AND HOOK UP CHARGES.
- 4. CONTRACTOR SHALL PROVIDE TEMPORARY POWER AS REQUIRED DURING THE COURSE OF CONSTRUCTION.
- 5. PROVIDE ALL REQUIRED CONDUITS, JUNCTION BOXES, SWITCHES, WIRE, RECEPTACLES, OUTLETS (DATA, TELEPHONE, TELEVISION), PANEL BOARDS, ETC., TO PROVIDE FULLY OPERATIONAL POWER, HEATING/COOLING, LIGHTING, DATA, AND COMMUNICATION SYSTEMS.
- 6. ELECTRICAL SUBMITTALS:
- a. SUBMIT MANUFACTURER'S DATA AND SHOP DRAWINGS AS REQUIRED UNDER GENERAL CONDITIONS.
- b. SUBMITTALS SHALL BE INCORPORATED INTO A SINGLE
- SUBMISSION. MULTIPLE SUBMISSIONS ARE NOT ACCEPTABLE. c. SPECIFIC MODEL NUMBERS SHALL BE INDICATED RATHER THAN
- 1. OPERATION AND MAINTENANCE (O#M) MANUALS: PROVIDE ALL ELECTRICAL EQUIPMENT AND CONTROL INFORMATION. THE PURPOSE OF THIS MANUAL IS TO PROVIDE ONE COMPREHENSIVE DOCUMENT THAT ILLUSTRATES AND DESCRIBES ALL THE ELECTRICAL EQUIPMENT AND CONTROL SYSTEMS
- a. PROVIDE GENERAL AND SUB-CONTRACTOR'S NAME, CONTACT PERSON, AND TELEPHONE/FAX NUMBERS.
- 6. OFM MANUAL SHALL INCLUDE WARRANTY INFORMATION AND ANY EQUIPMENT DOCUMENTATION.
- 8. PROJECT RECORD DOCUMENTS (AS-BUILTS):

Ag Tech

200 AMP

FEEDER SIZE

LOAD DISTRIBUTION

DIVERSITY FACTOR

1 R REC: East Wall

3 R REC: East Wall

5 R REC: East Wall

7 R REC: South Wall

9 R REC: West Wall

11 R REC: West Wall | 13 || R |||REC: West Wall

15 R REC: West Wall

LIGHT PLUGS

LIGHT PLUGS

ALL CIRCUIT CONDUCTORS SIZED FOR COPPER

DIVERSIFIED VA

CONNECTED VA

GENERAL MANUFACTURER LINES.

a. MAINTAIN AT THE SITE ONE COMPLETE SET OF FULL-SIZED ORIGINAL PRINTS FOR RECORDING INSTALLED CONDITIONS (AS-BUILTS). KEEP RECORD DRAWINGS CLEAN, UNDAMAGED AND UP TO DATE AS WORK PROGRESSES. ACCURATELY INDICATE ELECTRICAL WORK AS ACTUALLY INSTALLED WITH INDICATIONS OF ALL DEVIATIONS, ADDITIONS AND OMISSIONS IN RED INK. LOCATE ALL BURIED EXTERIOR RACEWAYS OR CABLES BY ACTUAL DIMENSIONS FROM WALLS, CENTER-LINES OR FIXED POINTS OF REFERENCE.

MAIN BREAKER

0 3420 5000

LTG REC MOTOR DATA EXTG HEAT

125% 100% 100% 100% 65% 100%

0 0 0

12 | 12 | 1/2 | 20 | 1

12 | 12 | 1/2 | 20 | 1 | **C** 

12 12 1/2 20 1 🗛

12 | 12 | 1/2 | 20 | 1 | **B** 

12 | 12 | 1/2 | 20 | 1 | **C** 

12 | 12 | 1/2 | 20 | 1 | 🗛 12 | 12 | 1/2 | 20 | 1 | **B** |

12 12 1/2 20

- b. THE PURPOSE OF THESE RECORD DRAWINGS IS TO PROVIDE THE ENGINEER WITH AN EASY TO READ, COMPLETE RECORD OF THE INSTALLATION SO THAT AT THE END OF THE PROJECT THE ENGINEER CAN REVISE THE ORIGINAL CONTRACT DRAWINGS TO REPRESENT THE ACTUAL INSTALLATION, COLOR-CODED AND HIGHLIGHTED NOTES SHALL BE USED IF THESE WOULD MAKE THE RECORD DRAWINGS EASIER TO READ.
- c. AT THE COMPLETION OF THE WORK, CONTRACTOR SHALL FURNISH THE ENGINEER THIS ORIGINAL SET OF MARKED-UP DRAWINGS. FINAL PAYMENT TO THE CONTRACTOR WILL NOT BE AUTHORIZED UNTIL THESE DRAWINGS HAVE BEEN SUBMITTED TO AND ACCEPTED BY THE ENGINEER.

### 9. IDENTIFICATION:

- a. PROVIDE ENGRAVED LABEL FOR DISCONNECTS AND PANELS.
- b. PROVIDE TYPEWRITTEN CIRCUIT SCHEDULES FOR PANELBOARDS.

## MAIN SERVICE AND DISTRIBUTION

- ELECTRICAL CONTRACTOR TO PROVIDE COMPLETE ELECTRICAL DISTRIBUTION SYSTEM FOR REMODELED AREA. SEE ONE-LINE DIAGRAM AND PANEL SCHEDULES ON THE ELECTRICAL PLANS.
- 2. GROUND AND BOND THE ELECTRICAL SERVICE PER NEC SECTION
- 3. VERIFY FAULT CURRENT VALUE WITH UTILITY IF NOT OTHERWISE NOTED ON DRAWINGS.
- 4. ELECTRICAL PANELBOARDS SHALL MEET ALL THE CONSTRAINTS STIPULATED BY THE SCOPE OF THE PROJECT. USE OF LOAD CENTER WITH PLUG-ON BREAKERS MUST HAVE PRIOR APPROVAL OF THE OWNER. REQUIREMENTS INCLUDE: VOLTAGE, PHASE, FAULT CURRENT RATING, CONDUCTOR LUGS, BREAKER SIZE, ETC ...

## BASIC MATERIALS

PANEL 'G'

ALUMINUM: 3" C, 4 \*300 PH, \*4 GRD

4/4/2023

120 / 208 YOLTS

MISC PH-A PH-B PH-C TOTAL AMPS

0 3940 3940 540 8420

BKR CON GND PHW HP VA

0 3940 3940 540 8420 33

23.05 Schedules

- 1. ALL WIRE TO BE MC CABLE OR CONDUIT AS ALLOWED BY CODE.
- 2. PROVIDE JUNCTION BOX AND WIRING FOR ALL LIGHT FIXTURES SHOWN ON PLANS. SEE FIXTURE SCHEDULE ON PLANS.
- 3. SWITCHES, RECEPTACLES, CABLE AND PHONE RECEPTACLES AND OTHER DEVICES AND CONTROLS SHALL BE COMMERCIAL GRADE. COLOR: IVORY OR AS OTHERWISE SELECTED BY ARCHITECT.
- 4. PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI OR GFI) AT EXTERIOR LOCATIONS, SINK COUNTERS, AND WHERE NOTED ON DRAWINGS AND REQUIRED BY CODE. PROTECT BY INDIVIDUAL DEVICE OR GFCI BREAKER AS PRACTICAL FOR APPLICATION.

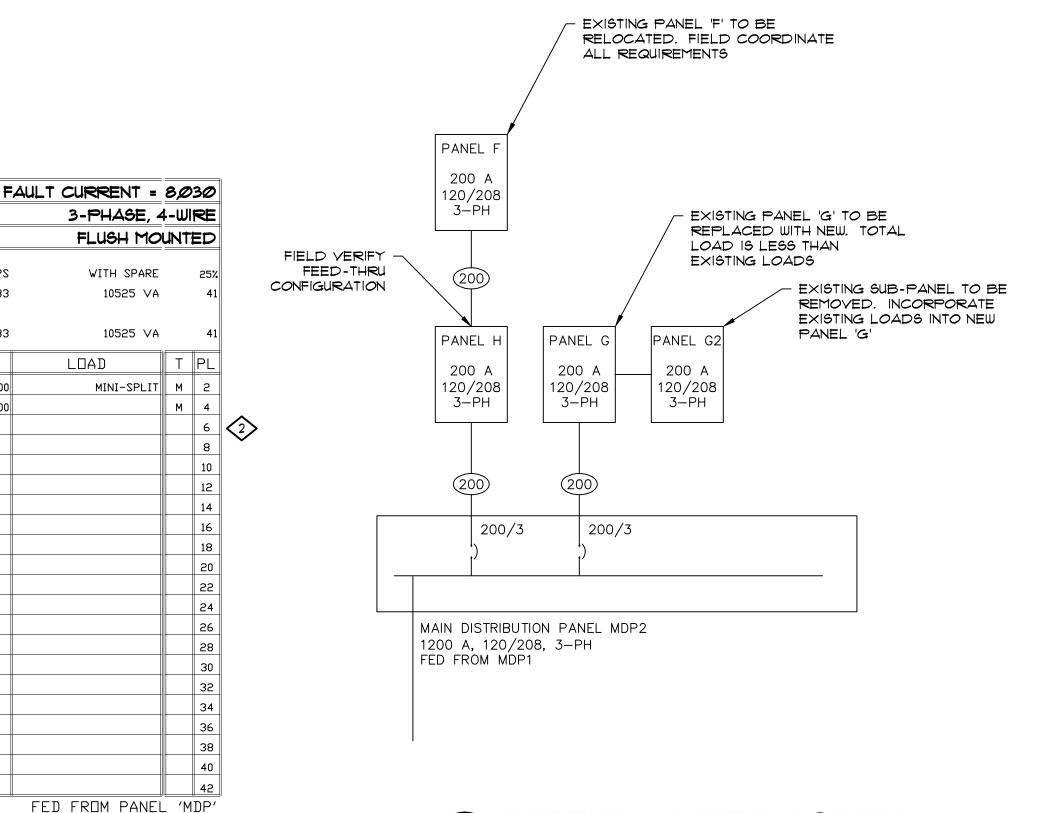
END OF SECTION

# PROJECT NOTES

- WORK SHOWN ON PLAN IS BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN. CONTRACTOR IS TO FIELD VERIFY AND COORDINATE PROJECT REQUIREMENTS WITH EXISTING CONDITIONS.
- 2. UNLESS NOTED OTHERWISE, ALL EQUIPMENT AND DEVICES SHOWN ON THE DEMOLITION PLAN IS TO BE DISCONNECTED AND REMOVED. WITH THE EXCEPTION OF WIRING TO BE REUSED DURING NEW INSTALLATION, REMOVE ALL UNUSED WIRING AND CONDUIT BACK TO PANEL OR ORIGIN. WIRING WHICH SERVES USABLE EXISTING LIGHTING AND POWER OUTLETS SHALL BE REPOUTED AND RESTORED CLEAR OF CONSTRUCTION. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEM.
- 3. CONTRACTOR SHALL COORDINATE AND PERFORM NECESSARY ELECTRICAL DEMOLITION WORK ASSOCIATED WITH ALL ITEMS AND EQUIPMENT TO BE REMOVED.
- 4. CONFIRM THAT ALL EXISTING DEVICES AND EQUIPMENT PLANNED FOR REUSE ARE IN GOOD OPERATING CONDITION. UNSUITABLE ITEMS SHALL NOT BE REUSED. RETURN ALL OTHER ITEMS SUITABLE FOR REUSE TO OWNER.
- 5. WHEN ADDING LOAD TO EXISTING CIRCUITS, TAKE AMPERE READINGS OF EXISTING CIRCUIT UNDER FULL LOAD. IF CAPACITY OF DESIGNATED CIRCUIT IS NOT ADEQUATE FOR ADDITIONAL LOAD, COMBINE LOADS ON EXISTING CIRCUIT BREAKERS (WITH ADEQUATE SPACE) TO PROVIDE SPARE BREAKERS AND CIRCUIT SPACE.
- 6. BRANCH CIRCUIT NUMBERS (WHERE SHOWN) ARE SHOWN FOR CIRCUITING PURPOSES. EXACT CIRCUIT NUMBERS SHALL BE DESIGNATED IN THE FIELD AND RECORDED ON RECORD DRAWINGS.
- 7. EXISTING CIRCUIT BREAKERS IN BRANCH PANEL MAY BE REUSED IF OF THE PROPER AMPERAGE AND IN GOOD OPERATING CONDITION (TRIP CHECK REQUIRED). OTHERWISE, REPLACE WITH NEW CIRCUIT BREAKER OF THE SAME MANUFACTURE AND
- 8. WIRING WHICH SERVES USABLE EXISTING OUTLETS SHALL BE REROUTED AND RESTORED CLEAR OF CONSTRUCTION. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEM. REPAIR AND RECONDITION ASSOCIATED SURFACES TO MATCH ADJACENT SURFACES. YERIFY EXACT LOCATIONS IN THE FIELD.
- 9. DISCONNECT AND REMOVE ELECTRICAL CONNECTION AND ASSOCIATED WIRING TO EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO DEMOLITION. VERIFY EXACT LOCATION IN THE FIELD. WIRING WHICH SERVES USABLE EXISTING OUTLETS SHALL BE REROUTED AND RESTORED CLEAR OF CONSTRUCTION.
- 10. WHEN MAKING MODIFICATIONS TO EXISTING EQUIPMENT OR PANELS, PROVIDE NEW ENGRAYED PANEL LABEL. PROVIDE NEW TYPEWRITTEN CIRCUIT SCHEDULES FOR ALL MODIFIED PANELS.
- 11. FIRE ALARM: PROVIDE NEW DEVICES AS INDICATED BY PLANS. NEW DEVICES SHALL BE COMPLETELY COMPATIBLE WITH EXISTING SYSTEM. TEST EXISTING DEVICES WITHIN THE REMODELED AREA. REPLACE ANY DEVICE THAT FAILS TESTING. FIELD COORDINATE ALL REQUIREMENTS.
- 12. COMMUNICATION: EXTEND EXISTING INTERCOM, BELL AND TELECOMMUNICATION SYSTEMS INTO REMODELED SPACES. FIELD COORDINATE ALL REQUIREMENTS.

## KEYED NOTES

- () EXISTING CIRCUIT BREAKERS IN PANEL 'F' MADE AVAILABLE DURING DEMOLITION AND / OR NEW WORK. CONNECT NEW CIRCUITS TO EXISTING BREAKERS AS SHOWN ON PLANS. NEW LOADS ARE EQUAL TO OR LESS THAN EXISTING LOADS.
- FIELD COORDINATE REQUIREMENTS FOR EXISTING HVAC EQUIPMENT BEING FED FROM PANEL 'G'. PROVIDE APPROPRIATE CIRCUIT BREAKER IF EQUIPMENT IS TO BE REUSED OR REPLACED.

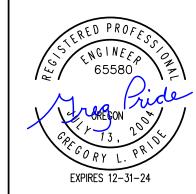


1 PARTIAL 1-LINE DIAGRAM E1 / 120/208 V, 3-PH



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H

**PRELIMINARY REVISIONS:** # DATE DESCRIPTION

DATE:

SHEET TITLE: **ELECTRICAL** 

PANEL SCHEDULES

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