

POCATELLO/CHUBBUCK SCHOOL DISTRICT 25

LEARNING TODAY FOR THE POSSIBILITIES OF TOMORROW

Administration Offices 3115 Pole Line Road Pocatello, Idaho 83201

Addendum No. 1

April 7, 2022

RE: Invitation to Bid, 2022 Exhaust System Upgrade

FROM: Business Services

(208) 235-3270

This Addendum becomes a part of the Contract Documents and modifies the original Bidding Specifications, as noted below.

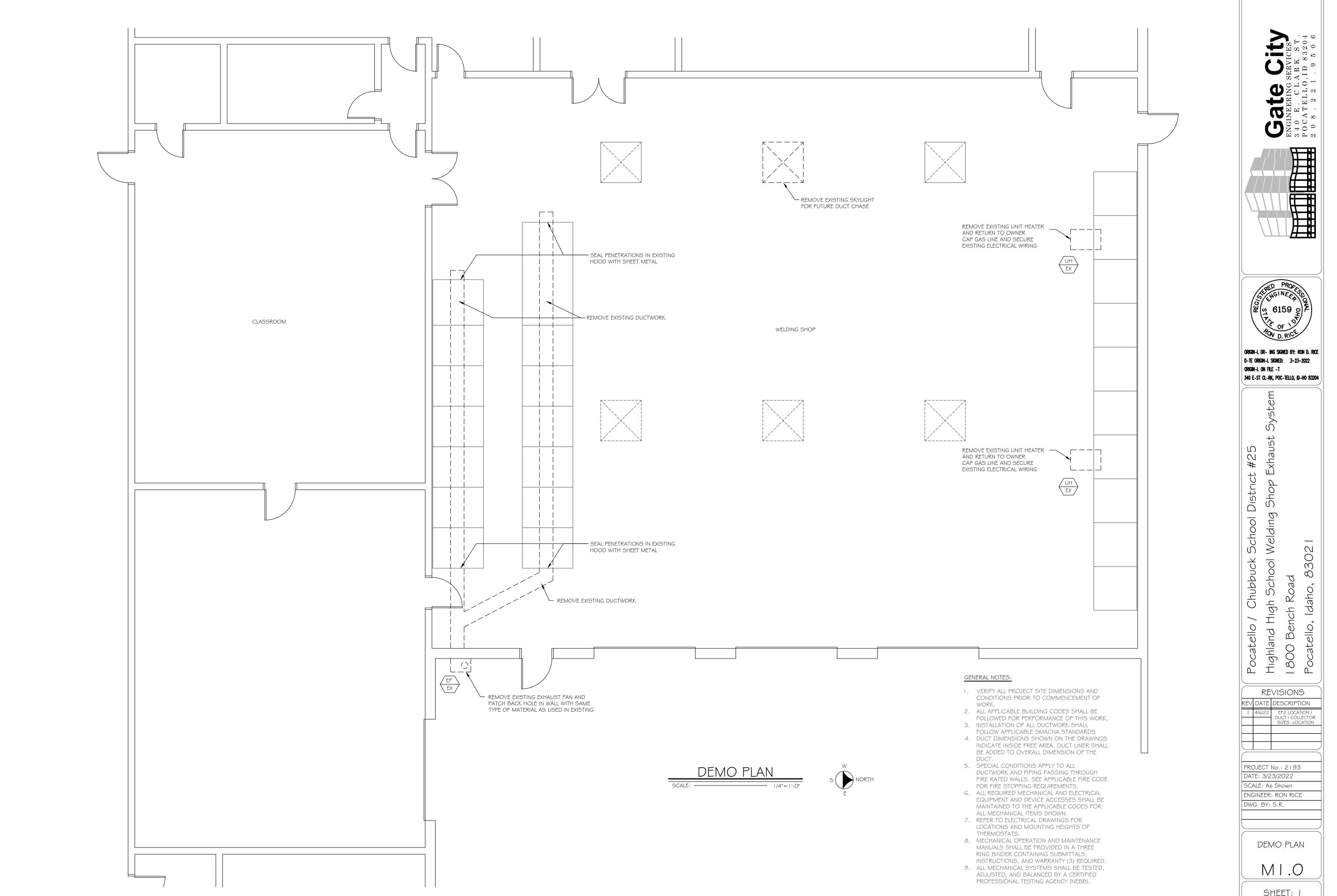
UPDATED: Welding room drawings and

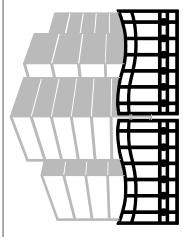
Electrical drawings to support EF-2 to 7.5 HP.

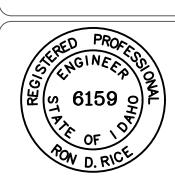
Bid opening date remains the same: April 12, 2022 at 2:00 pm

Acknowledge Addendum No 1 on the Bid Proposal, Page 1. Failure to acknowledge Addendum No. 1 may subject the bidder to disqualification.

NO OTHER CHANGES END OF ADDENDUM No.1 – rlb







ORIGIN-L DR- ING SIGNED BY: RON D. RICE D-TE ORIGIN-L SIGNED: 3-23-2022 ORIGIN-L ON FILE -T 340 E-ST CL-RK, POC-TELLO, ID-HO 83204

Shop

REVISIONS

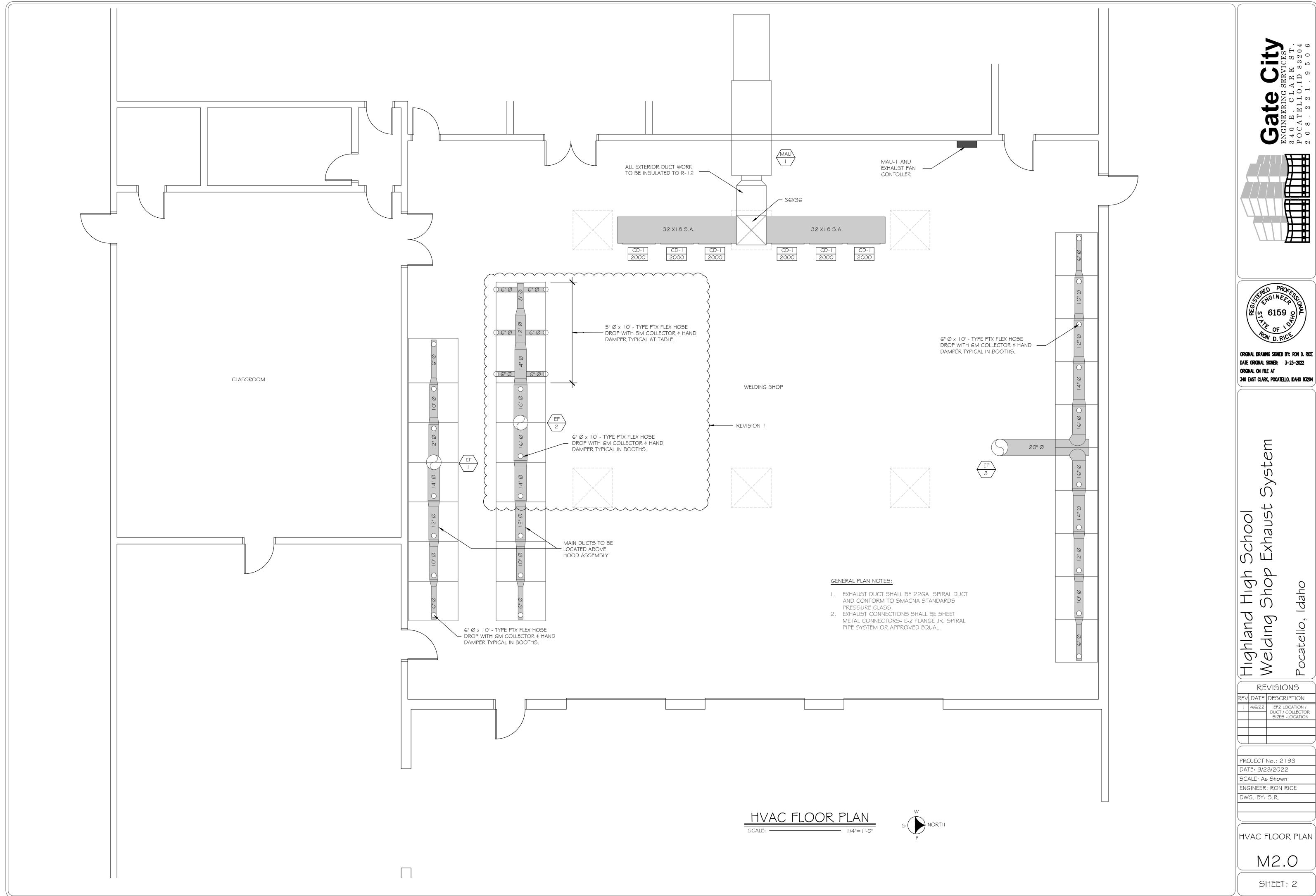
REV DATE DESCRIPTION | 4/6/22 EF2 LOCATION / DUCT / COLLECTOR SIZES -LOCATION

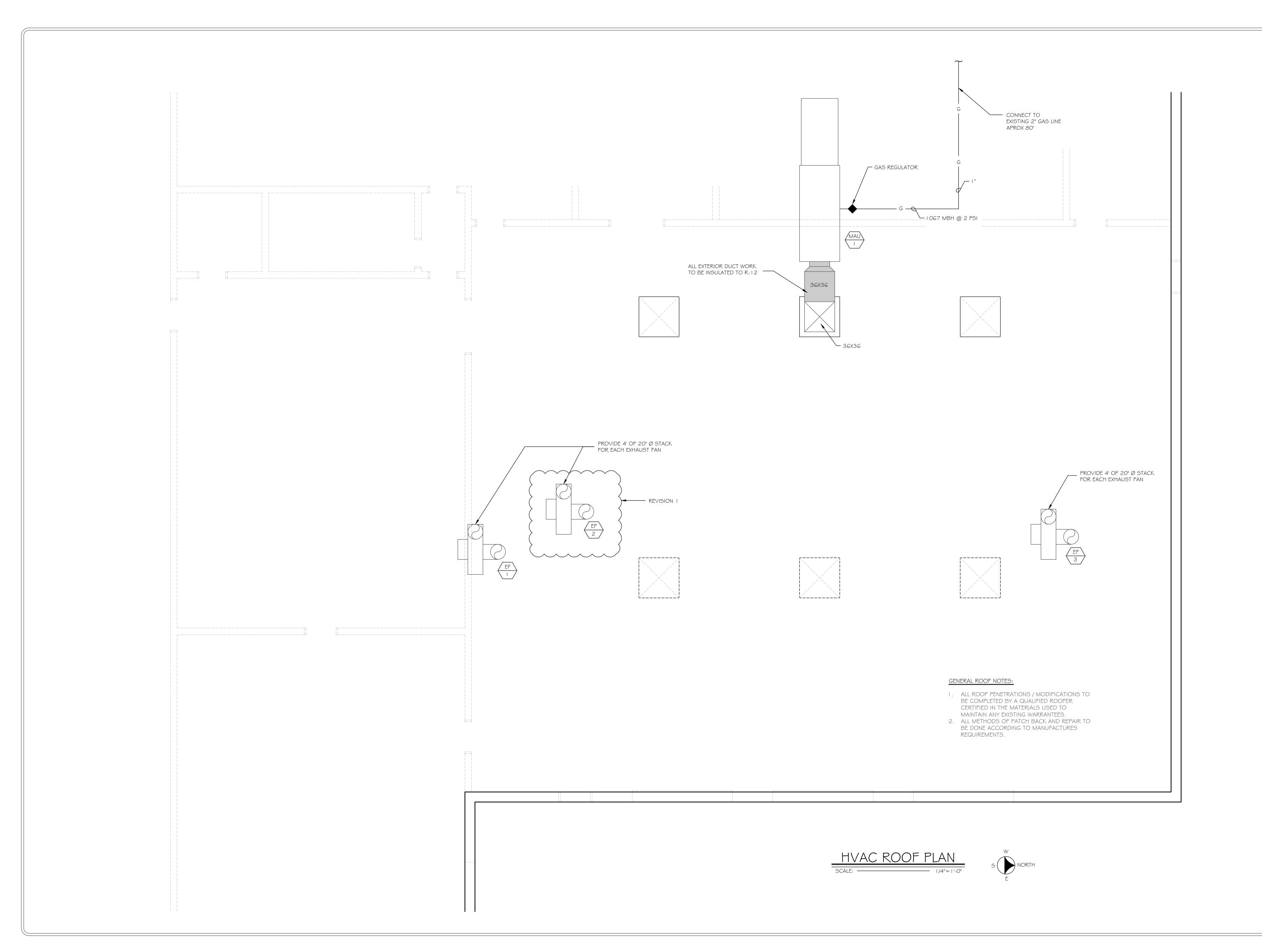
PROJECT No.: 2193 DATE: 3/23/2022

SCALE: As Shown ENGINEER: RON RICE

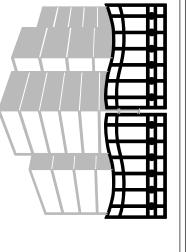
DEMO PLAN

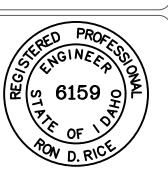
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Gate CityENGINEERING SERVICES
3 4 0 E. C.L.A.R.K. S.T.
POCATELLO, ID 83204
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ORIGINAL DRAWING SIGNED BY: RON D. RICE
DATE ORIGINAL SIGNED: 3-23-2022
ORIGINAL ON FILE AT
340 EAST CLARK, POCATELLO, IDAHO 83204

High School shop Exhaust System

Highland Short Description Breatello, Ic

| 4/6/22 EF2 LOCATION / DUCT / COLLECTOR SIZES -LOCATION

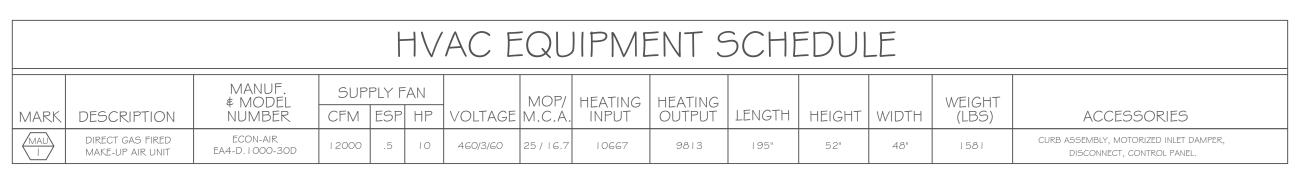
PROJECT No.: 2193 DATE: 3/23/2022

SCALE: As Shown
ENGINEER: RON RICE
DWG. BY: S.R.

HVAC ROOF PLAN

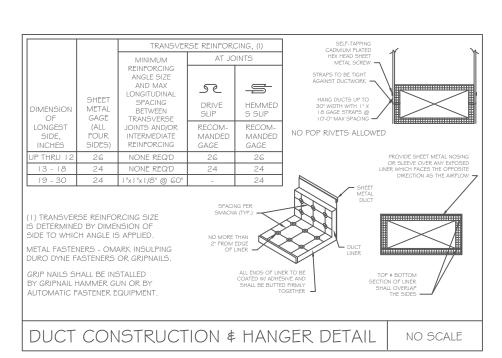
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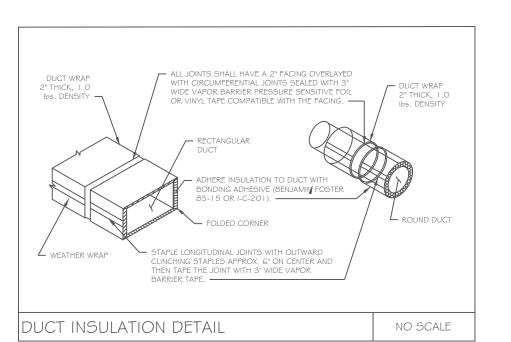
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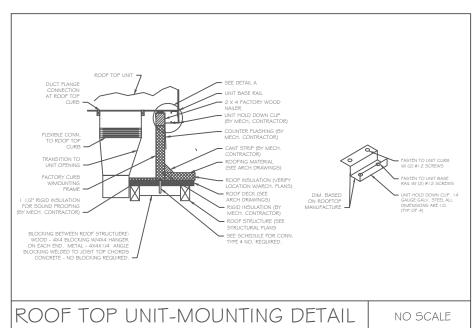


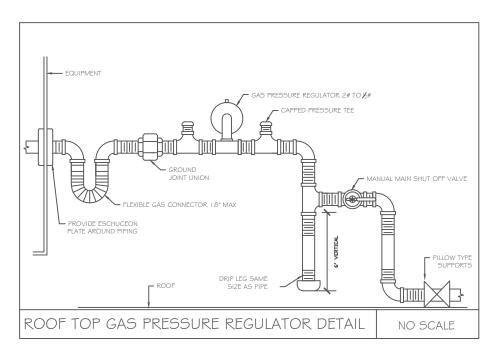
DIFFUSER, GRILLE, & REGISTER SCHEDULE									
SYMBOL	DESCRIPTION	NECK SIZE	FACE SIZE	MATERIAL	PATTERN	INSTALLATION	NOTES		
CD-1	BEVELED EDGE	40 X 14	42 X 16	ALUMINUM	DOUBLE DEFLECTION	DUCT	KRUEGER 5880H		

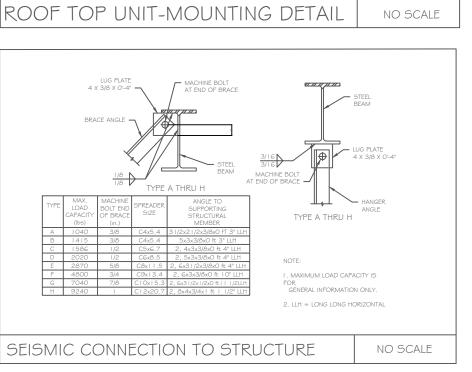
	EXHAUST FAN SCHEDULE										
SYMBOL	TYPE	C.F.M.	S.P.	H.P.	CHAR.	R.P.M.	CONTROL	MANUFACTURE / MODEL	ROTATION	DISCHARGE	ACCESSORIES
EF I	UTILITY SET	4200	4"	5	460/3/60	1881	FROM MAU- I CONTROLLER	CAR-MON CMB-30	CW-UB	UP BLAST	FAN INLET / DISCHARGE FLEX CONNECTIONS, WEATHER COVER, VIBRATION RAILS,
EF 2	UTILITY SET	6000	4"	7.5	460/3/60	1790	FROM MAU- I CONTROLLER	CAR-MON CMB-32	CW-UB	UP BLAST	DRAIN, BACK-DRAFT DAMPER
EF 3	UTILITY SET	6000	4"	7.5	460/3/60	1790	FROM MAU- I CONTROLLER	CAR-MON CMB-32	CW-UB	UP BLAST	
	•						,			,	REVISION I

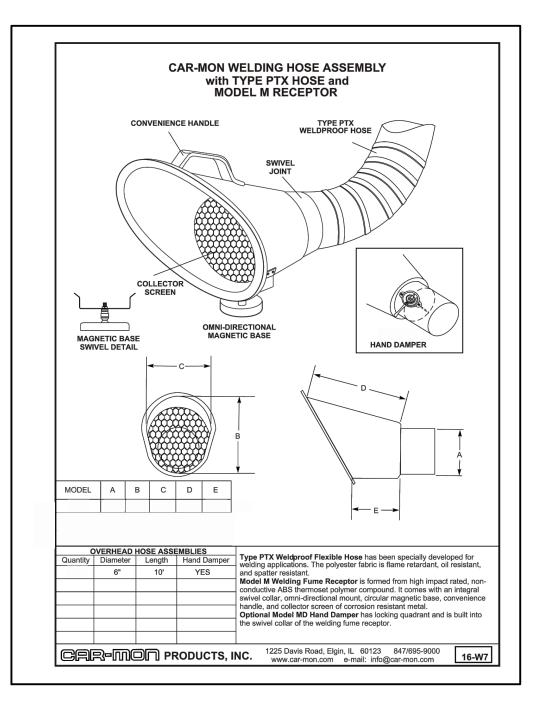


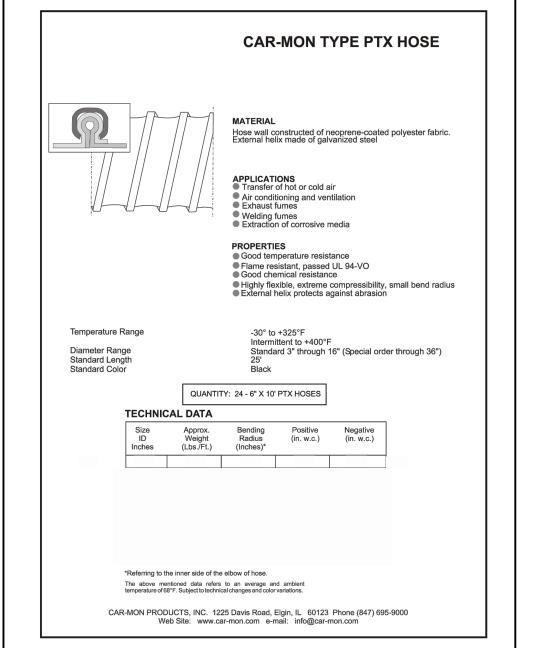




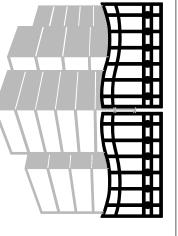


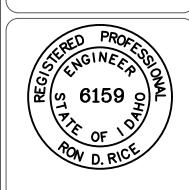












DATE ORIGINAL SIGNED: 3-23-2022 ORIGINAL ON FILE AT 340 EAST CLARK, POCATELLO, IDAHO 83204

tem

Exhaust School High Shop Highland Welding !

REVISIONS REV DATE DESCRIPTION 1 4/6/22 EF2 LOCATION / DUCT / COLLECTOR SIZES -LOCATION

PROJECT No.: 2193 DATE: 3/23/2022

SCALE: As Shown ENGINEER: RON RICE DWG. BY: S.R.

> SCHEDULES DETAILS

> > M4.0

SHEET: 4

NOTE: ALL SYMBOLS	POWER SYMBOL SCHEDULE	FIRE ALARM SYMBOL SCHEDULE NOTE: ALL SYMBOLS MAY NOT BE USED			CIRCUITING & GENERAL SYMBOL SCHEDUL		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOLS	DESCRIPTION		
'MSB'	ELECTRICAL SWITCHBOARD EQUIPMENT, (SEE POWER RISER AND PANEL SCHEDULES	FACP	FIRE ALARM CONTROL PANEL (WALL MOUNTED, TOP AT 6'-0' AFF)	1	KEYED NOTE REFERENCE		
	FOR ADDITIONAL INFORMATION)	NAC_	NOTIFICATION DEVICE EXTENDER PANEL. PROVIDE QTY AS REQUIRED BASED ON DEVICE	1 / ES101	DETAIL # / SHEET REFERENCE		
'T##'	DRY-TYPE TRANSFORMER, (SEE POWER RISER FOR ADDITIONAL INFORMATION)		VOLTAGE DROP CALC'S PER NFPA 72 REQUIREMENTS. (WALL MOUNTED, TOP AT 5'-0' AFF)		BRANCH CIRCUIT HOME-RUN TO PANEL INDICATED		
	ELECTRICAL PANELBOARD, (SEE POWER RISER AND PANEL SCHEDULES	TEMOTE ANNOOIATORY ANEE (I EGGIT WOORVIED IN WALE AT 5-5 ALT)		A-1,3,5 3/4"C6#12,1#12G	A-1,3,5 — PANEL AND CIRCUIT DESIGNATIONS 3/4,"C6#12,1#12G		
'LA'	FOR ADDITIONAL INFORMATION)	F	MANUAL PULL STATION (MOUNTING HEIGHT PER ADA & NFPA 72)		QTY & SIZE OF EQUIPMENT GROUND CONDUCTOR QTY & SIZE OF NEUTRAL AND PHASE CONDUCTOR(S)		
	DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED	H	MAGNETIC DOOR HOLD OPEN ADDRESSABLE CONTROL/RELAY MODULE		SIZE OF CONDUIT		
30A/3P/3R	TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X	MM	ADDRESSABLE MONITORING MODULE ADDRESSABLE MONITORING MODULE	-	TICK MARKS		
30A/3P/3R	FUSED DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X	FS	FIRE ALARM FLOW SWITCH	-	•— EQUIPMENT GROUNDING CONDUCTOR		
(30A FUSES)		TS	FIRE ALARM TAMPER SWITCH		NEUTRAL CONDUCTOR(S) PHASE AND/OR SWITCH-LEG CONDUCTOR(S)		
30A/3P/3R SIZE 1	COMBINATION STARTER & FUSED DISCONNECT SWITCH, SIZE/POLES/TYPE AS INDICATED. TYPES: 1=NEMA 1, 3R=NEMA 3R, 4X=NEMA 4X	(a)	ADDRESSABLE DETECTOR WITH BASE	*25,000A	CALCULATED AVAILABLE FAULT CURRENT AT EQUIPMENT(SEE POWER RISER)		
(30A FUSES)	JUNCTION BOX		DETECTOR SUBSCRIPTS	25,000A	BRANCH CIRCUIT/FEEDER CONCEALED IN CEILING OR WALL BRANCH CIRCUIT/FEEDER CONCEALED UNDERGROUND OR FLOOR		
①	CR = CORD REEL; SEE DRAWINGS FOR INFORMATION CD = CORD DROP; SEE DRAWINGS FOR INFORMATION		P PHOTOELECTRIC SMOKE DETECTOR D DUCT SMOKE DETECTOR H HEAT DETECTOR				
	EQUIPMENT CONNECTION; COORDINATE CONNECTION WITH EQUIPMENT PRIOR TO ROUGH-IN		M MULTI-STATION SMOKE DETECTOR (120V W/BATTERY BACKUP)		NEW EQUIPMENT, DEVICES, ETC.		
M	MOTOR CONNECTION	SD	FIRE/SMOKE DAMPER; COORDINATE LOCATIONS WITH MECH. DRAWINGS		EXISTING EQUIPMENT, DEVICES, ETC.		
Ē	SMALL EXHAUST FAN CONNECTION	A A	EXTERIOR 120V FIRE BELL, INSTALL NEXT TO FDC.		DEMOLITION EQUIPMENT, DEVICES, ETC.		
	POWER AND/OR DATA SERVICE POLE	<u> </u>	WALL MOUNTED FIRE ALARM HORN ONLY				
FB#	FLOORBOX (SEE FLOORBOX SCHEDULE FOR ADDITIONAL INFORMATION) PUSHBUTTON STATION		WALL MOUNTED FIRE ALARM STROBE ONLY				
	SPECIAL RECEPTACLE (COORDINATE NEMA TYPE WITH EQUIP.)	_	(CANDELA RATING AS INDICATED) CEILING MOUNTED FIRE ALARM STROBE ONLY				
**	(REFER TO PANEL SCHEDULES FOR AMPS)	⊗##	(CANDELA RATING AS INDICATED)		PROJECT GENERAL NOTES:		
Ф	CEILING MOUNTED DUPLEX RECEPTACLE (COORDINATE PLACEMENT WITH CEILING EQUIPMENT PRIOR TO ROUGH-IN)	₩	WALL MOUNTED FIRE ALARM HORN STROBE (CANDELA RATING AS INDICATED)	A. E.C. SHALL REFER TO THE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL			
Ф	DUPLEX RECEPTACLE, UL TAMPER-RESISTANT WHERE MOUNTED BELOW 5FT	CEILING MOUNTED FIRE ALARM HORN STROBE (CANDELA RATING AS INDICATED)		EQUIPMENT AND ELECTRICAL CONNECTIONS. B. E.C. SHALL PROVIDE MINIMUM WORKING CLEARANCE AS PER NEC BEFORE INSTALLING ANY ELECTRIC			
Ф	GFCI-TYPE DUPLEX RECEPTACLE, UL TAMPER-RESISTANT WHERE MOUNTED BELOW 5FT	GENERAL FIRE A	ALARM SYSTEM NOTES	 PANELS OR CABINETS. SEE ELECTRICAL EQUIPMENT CLEARANCE DETAIL. C. INSTALL ALL LIGHT FIXTURES IN MECHANICAL ROOM AFTER THE MECHANICAL EQUIPMENT IS IN PLACE ADJUST AS NECESSARY. PROVIDE CHAIN SUSPENSION KITS AS REQUIRED. D. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN(S) FOR EXACT FIXTURE LOCATIONS, CEILING TYPES, ETC. E. E.C. SHALL PROVIDE ALL CONCRETE PADS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT. 			
*	DOUBLE-DUPLEX RECEPTACLE, UL TAMPER-RESISTANT WHERE MOUNTED BELOW 5FT GFCI-TYPE DOUBLE-DUPLEX RECEPTACLE, UL TAMPER-RESISTANT WHERE MOUNTED BELOW 5FT.	DO NOT EXC B. NFPA ALLOW	TALL MORE THAN (10) NOTIFICATION APPLIANCES ON ANY SINGLE CLASS "A" SIGNAL CIRCUIT. EED 400 FT. OF NO. 14 WIRE IN THE TOTAL LOOP. /S NOTIFICATION APPLIANCES TO BE MOUNTED AT A HEIGHT RANGE BETWEEN 80" TO 96" H FLOOR. THE PREFERRED HEIGHT IS 80". IF THIS CONFLICTS WITH OTHER TRADES OR ROOM				
	D EQUIPMENT SUBSCRIPTS		S, LOCATE AS CLOSE TO 80" AS POSSIBLE, NOT EXCEEDING 96". ALL NOTIFICATION IN A COMMON ROOM OR LINE OF SIGHT SHALL BE LOCATED AT A COMMON HEIGHT.		ACT LOCATIONS OF ALL TELEPHONE/DATA OUTLETS WITH OWNER PRIOR TO ROUGH-IN. ICHES, OUTLETS, ETC., SHOWN AT ROOM ENTRY DOORWAYS, AS CLOSE TO DOOR FRAME		
P WEATH WEATH " MOUNT ISOLATI SURGE: F REFRIG WASHIN	COUNTER ERPROOF (UL LISTED ER-RESISTANT) USB ISP GROUND PROTECTION TYPE ERATOR IG MACHINE IG MACHINE IG MACHINE IC WORD IN THE WORD IN THE WORD IN THE WORD ISP GROWN	C. MOUNT PULL STATIONS AT 46-48" A.F.F. TO THE OPERATING HANDLE TO MEET ADA REQUIREMENTS. D. DO NOT CONNECT THE FIRE ALARM SYSTEM TO ANY DEVICE WHICH HAS A POWER HELD CONTACTS.(FLOW, TAMPER, HOOD SYSTEM, DUCT DETECTOR, ETCFALSE ALARM WILL OCCUR. E. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL CONDUCTOR QUANTITIES PER FIRE ALARM SYSTEM SUPPLIER, AND AS PER NFPA AND NEC REQUIREMENTS.			POSSIBLE, SO AS NOT RO INTERFERE WITH ROOM CABINETS, ETC. H. SUPPORT ALL LIGHT FIXTURES INDEPENDENT OF CEILING. I. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS FOR WORK AND PAY ASSOCIATED FEES. J. MAINTAIN 24" MIN. CLEARANCE FROM ALL COMMUNICATIONS CABLING AND ELECTRONIC BALLASTS. K. UNLESS SPECIFICALLY INDICATED OTHERWISE, E.C. SHALL COORDINATE WITH ANY SPECIAL SYSTEMS SUPPLIER/SHOP DRAWINGS; DENTAL, MEDICAL, KITCHEN, SPECIALIZED EQUIPMENT, ETC. FOR THE EXAC ROUGH-IN REQUIREMENTS FOR THEIR EQUIPMENT. ALSO UNLESS INDICATED OTHERWISE, THE E.C. TO BE RESPONSIBLE FOR FINAL ELECTRICAL CONNECTIONS TO ALL SPECIAL EQUIPMENT. L. ALL CONDUIT/RACEWAY/CABLES TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. IF ANY SURFACE WORK IS NECESSARY, IT SHALL BE APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. M. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND THOROUGHLY INVESTIGATE THE EXISTING CONDITIONS, AS THEY RELATE TO THE SCOPE OF WORK DESCRIBED. MAKE NECESSARY PROVISIONS IN THE BASE BID TO ADEQUIATELY ACCOMMODATE THESE CONDITIONS		
OR S	HVAC THERMOSTAT OR SENSOR; PROVIDE & INSTALL BACKBOX,3/4" CONDUIT AND CONDUCTORS TO ASSOCIATED HVAC UNIT. COORDINATE EXACT LOCATION & SIZE AND NUMBER OF CONDUCTORS WITH M.C.	 G. DO NOT EXCEED 2500 FEET ON ANY ADDRESSABLE DEVICE RUN. DO NOT EXCEED 120 DEVICES ON ANY ONE ADDRESSABLE DEVICE RUN. H. ALL AIR HANDLING EQUIPMENT 2000 CFM OR MORE MUST BE SHUT DOWN UPON FIRE ALARM AS PER LIFE SAFETY CODES. 					
ENERAL SPECIA	L SYSTEM NOTES:	I. ALL CLASS "B" INITIATING CIRCUITS WITH ADDRESSABLE DEVICES NEED EOLR. (END OF LINE RESISTORS).					
ARCHITECTUR	SHOWN AT OR NEAR MILLWORK/CASEWORK SHALL BE COORDINATED WITH THE RAL ELEVATION DRAWINGS AND MILLWORK INSTALLER TO INSURE PROPER MOUNTING ITRACTOR SHALL AD JUST DEVICES AS NECESSARY IN ORDER TO POSITION DEVICES SUCH	J. IN CORRIDORS, NOTIFICATION APPLIANCES MUST BE LOCATED WITHIN 15' FROM ENDS OF CORRIDORS AND A MAXIMUM OF 100' SPACING. K. NOTIFICATION APPLIANCES TO BE SYNCHRONIZED TO BROWIDE A 3.3.3 TEMPORAL PATTERN.					

ELECTRICAL SPECIFICATIONS

REQUIREMENTS.

Provide and install complete and operable electrical systems including but not not limited to; lighting, power, receptacles, data, fire alarm ande etc. Provide all required connections to all Mechanical and Plumbing equipment, as indicated and required, including all conduits, wiring and controls. Coordinate with mechanical

BETWEEN TILEWORK/WALL OR WAINSCOATING, ETC.

HEIGHTS. CONTRACTOR SHALL ADJUST DEVICES AS NECESSARY IN ORDER TO POSITION DEVICES SUCH

THAT THEY WILL NOT FALL BEHIND MILLWORK, CABINETS OR BE DIRECTLY ABOVE SINKS OR MIDWAY

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL A GFCI TYPE RECEPTACLE FOR ALL

RECPTACLES SHOWN IN TOILET RMS, BATHROOMS, KITCHENS/SERVING AREAS, ROOFTOP, OUTDOORS

OR WITHIN 6FT OF ANY SINK, BASIN, TUB OR FLOOR SINK AND ALL OTHER AREAS DEFINED BY THE NEC.

- contractor and drawings. COMPLIANCE WITH CODES: All work and material shall comply with all applicable codes, safety orders, laws, ordinances and regulations of governing authorities and other agencies having jurisdiction including regulations of the State and Local Fire Marshall, unless
- detailed as specified to a more restrictive standard or higher
- INTERPRETATION OF DRAWINGS: The electrical drawings are essentially diagrammatic in that all provisions necessary to conform to structural, architectural, mechanical and plumbing systems can not be shown. All installations shall be adjusted as necessary to conform and to avoid obstructions, without additional cost to
- the owner. All work, material and equipment called for by notes, schedules or otherwise indicated on the drawings shall be furnished and isntalled as though fully set forth in these specifications.
- VISITING THE SITE:

future maintaenance.

- Contractor shall visit the site and become acquainted with conditions to be encounterd. Extra funds will not be allowed due to failuer to examine the site and to included existing conditions in bid price.
- COORDINATION WITH UTILITIES: These plans have been prepared without utility company comments. The contractor shall verify exact requirements for the electrical, telephone and communication services with the utility company representatives and provide all work and pay

all costs for a complete and operating systems, as directed by

- the governing utilities. MATERIALS AND WORKMANSHIP: All workmanship shall be performed by skilled electricians using the best standard practives of the trade. All materials shall, unless otherwise noted, be new and in perfect condition and working order. All material for similar uses shall be of the same type, material and manufacturer for ease of
- All equipment shall be readily accessible for maintenance and repairs. All materials, fixtures and equipment shall be covered or sealed upon installation so as to provide for safety and to insure that operation and appearance will be maintained after subsequent construction operations.

- Raceway installation: Seperate underground conduits in a common trench 4" minimum horizontally, 12" minimum from other utility lines. Minimum conduit depth shall be 18". Coordinate conduit installation with pipes, steel, footings and ducts installed by other trades. Install conduit runs exposed to view parallel or at right angles to structural members, walls or building lines. Support conduit with one-hole malleable factory made pipe straps, fastended with screws.
- 8. OPERATING AND ADJUSTING: The owner reserves the right to operate any systems of equipment prior to final comletion and acceptance of the work. Such perliminary operation shall not be construed as an acceptance of any work.
- Each piece of equipment and all of the systems shall be adjusted to insure proper functioning and shall be left in first class operating condition. CUTTING AND PATCHING:
- Do all drilling and cutting as necessary for installation of equipment or conduit. Cutting or drilling of structure is only permitted with prior approval of the owner and structural Where cutting and patching of work is necessary, use the same materials, workmanship and finish to neatly match all surrounding work.
- 10. CONDUIT: All conduit material and installation methods shall be as allowed by the NEC, local AHJ and as directed by the
- 11. CONDUCTORS: Type THWN or THHN copper wire insulated for 600V. Smallest wire shall be #14 AWG unless noted otherwise. All wiring shall be Copper unless indicated otherwise.
- Use "Ideal Yellow" pulling compound for all wire pulls. Use Scotchlock connectors for all splices in #12 wire and tape bolted pressure connectors for larger wire.
- 12. GROUNDING: All conduit, branch circuits, feeders and etc. shall be provided with a grounding conductor. All grounding conductors shall be insulated and green in color, size as

required by the NEC.

. NOTIFICATION APPLIANCES TO BE SYNCHRONIZED TO PROVIDE A 3-3-3 TEMPORAL PATTERN.

M. THE FIRE ALARM SYSTEM TO BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND ADA

SYSTEM AS REQUIRED. SEE FIRE SPRINKLER SYSTEM DRAWINGS FOR EXACT LOCATIONS AND

PLAN IS SHOWN FOR GENERAL LOCATION AND LAYOUT ONLY.

ALL WIRING AND CONDUIT ROUTING TO BE AS DESCRIBED ON SUPPLIED SHOP DRAWINGS. FIRE ALARM

N. ELECT. CONTR. TO CONNECT SPRINKLER SYSTEM TAMPER SWITCHES AND FLOW VALVES TO FIRE ALARM

- 13. WIRING DEVICES: Devices shall be Standard type, Specification grade, color as selected by owner. Decora style devices are prohibited. Utilize GFCI and Tamper-proof devices in all locations as defined by the NEC. Wiring devices shall be as installed as allowed by the NEC, local AHJ.
- 14. DEVICE PLATES: Devices plate type and color shall be as directed by owner and as required by the NEC.
- 15. LIGHTING FIXTURES: As selected by owner and/or indicated in schedules. All light fixtures shall be installed and connected by the Electrical
- 16. SERVICE EQUIPMENT & PANELBOARDS: Service Equipment: Shall be rated as such and shall comply with local utility co. requirments. Panelbards: Shall be provided with typed writtend directories indicating loads being served. Maintain all required clearances around equipment as
- All equpment dimensions to be field verified. 17. CLEAN-UP: Upon completion of the work, prior to final inspection, thoroughly clean all exposed fixtures, trim and equipment and leave the entire installation in a neat, clean and usable condition. Remove all cement, paint, grease, oil and other foreign substances.
- 18. TEST: Test all conductors for shorts, opens, grounds or other defects. Correct any defective work and re-test. Demonstrate continuous satisfactory operation of all electrical systems and equipment. Provide training to the owner on electrical systems as needed for owner operation and maintenance of building.
- 19. GUARANTEE: Prior to final acceptacne of the project, deliver to the owner a written one year guarantee on all workmanship, materials and equipment and agree to repair or replace all such defective items promptly that may occure during the warranty period; including repair or replacement of the premises that may be damaged due to faulty work and materials furnished under contract.

ELECTRICAL EQUIP. CLEARANCE

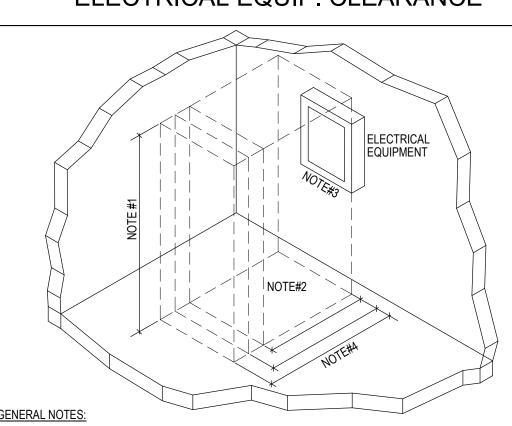
1. E.C. SHALL SCHEDULE A MEETING A MINIMUM OF FIVE CALENDAR DAYS PRIOR TO BEGINNING DATA

ABLING INSTALLATION . ATTENDEES SHOULD INCLUDE OWNER'S REP., ENGINEER, GC, EC AND

PROVISIONS IN THE BASE BID TO ADEQUATELY ACCOMMODATE THESE CONDITIONS.

CABLING SUB. REFER TO SECTION 26 6210(1.4)(E) FOR ADDITIONAL INFORMATION.

I. DATA CABLING SYSTEM PRE-INSTALLATION CONFERENCE:



. ALL WORKING SPACE CLEARANCES ARE FROM THE FACE OF THE EQUIPMENT

- . THE MINIMUM HEADROOM OF WORKING SPACE SHALL BE 6 1/2FT. THE WIDTH OF THE WORKING SPACE SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER. THE PANEL DOOR SHALL OPEN AT LEAST 90 DEGREES.
- ALL CIRCUIT BREAKERS, WHEN IN THIER HIGHEST POSITION, SHALL NOT BE MORE THAN 6FT 7 IN. ABOVE THE FINISHED FLOOR.
- 3FT CLEARANCE IF 0-150V TO GROUND, 3.5FT CLEARANCE IF 151-600V TO GROUND. 4FT IF EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

FIRE ALARM EXPANSION NOTES:

- PROVIDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EXPAND THE EXISTING BUILDING FIRE ALARM SYSTEM. THE SYSTEM ADDITION SHALL BE CONNECTED DIRECTLY TO THE EXISTING MAIN FIRE ALARM
 - THE INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND ACCEPTED BY THE LOCAL AHJ. WHEN THE SYSTEM IS COMPLETE, A FACTORY REPRESENTATIVE SHALL TEST THE SYSTEM, MAKE ADJUSTMENTS AND PLACE THE SYSTEM IN OPERATING ORDER.
 - WITHIN 30 DAYS AFTER THE CONTRACT AWARD AND PRIOR TO THE PURCHASE OF ANY EQUIPMENT, THE FIRE ALARM SYSTEM CONTRACTOR
 - SHALL SUBMIT FOR APPROVAL SIX (6) COPIES OF THE FOLLOWING: a. A LIST OF MATERIALS THAT ARE TO BE USED ON THE PROJECT, INCLUDING MANUFACTURER, MODEL NUMBER AND TECHNICAL INFORMATION.
 - b. PRELIMINARY CIRCUIT DIAGRAMS SHOWING INTERCONNECTION OF ALL MONITORING, NOTIFICATION AND ANNUNCIATION DEVICES. PANELS AND WIRING COUNTS, DIAGRAMS ARE TO BE 11"X17", DONE IN A GOOD WORKMAN LIKE MANNER.
 - c. TECHNICAL MANUALS FOR ALL OF THE EQUIPMENT THAT IS TO BE USED ON THE PROJECT.
 - d. SUBMIT SHOP DRAWINGS AND REQUIRED CALCULATIONS TO THE LOCAL AHJ.
 - e. OBTAIN A WRITTEN LETTER OF ACCEPTANCE OF THE PROPOSED SYSTEM AND INCLUDE WITH THE SHOP DRAWING SUBMITTAL TO THE ENGINEER.

. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED POWER

THE BID FOR MISCELLANEOUS ADDITIONS AND/OR REQUIREMENTS

IMPOSED BY THE LOCAL AHJ.

SCALE: 1/8" = 1'-0"

SUPPLIES, ELECTRONICS AND CONNECTIONS TO MODIFY EXISTING SYSTEM TO ACCEPT NEW ADDITION. THE COMPLETE SYSTEM SHALL MAINTAIN A UL LISTING. . ELECTRICAL CONTRACTOR SHALL INCLUDE A \$2,000.00 CASH ALLOWANCE IN

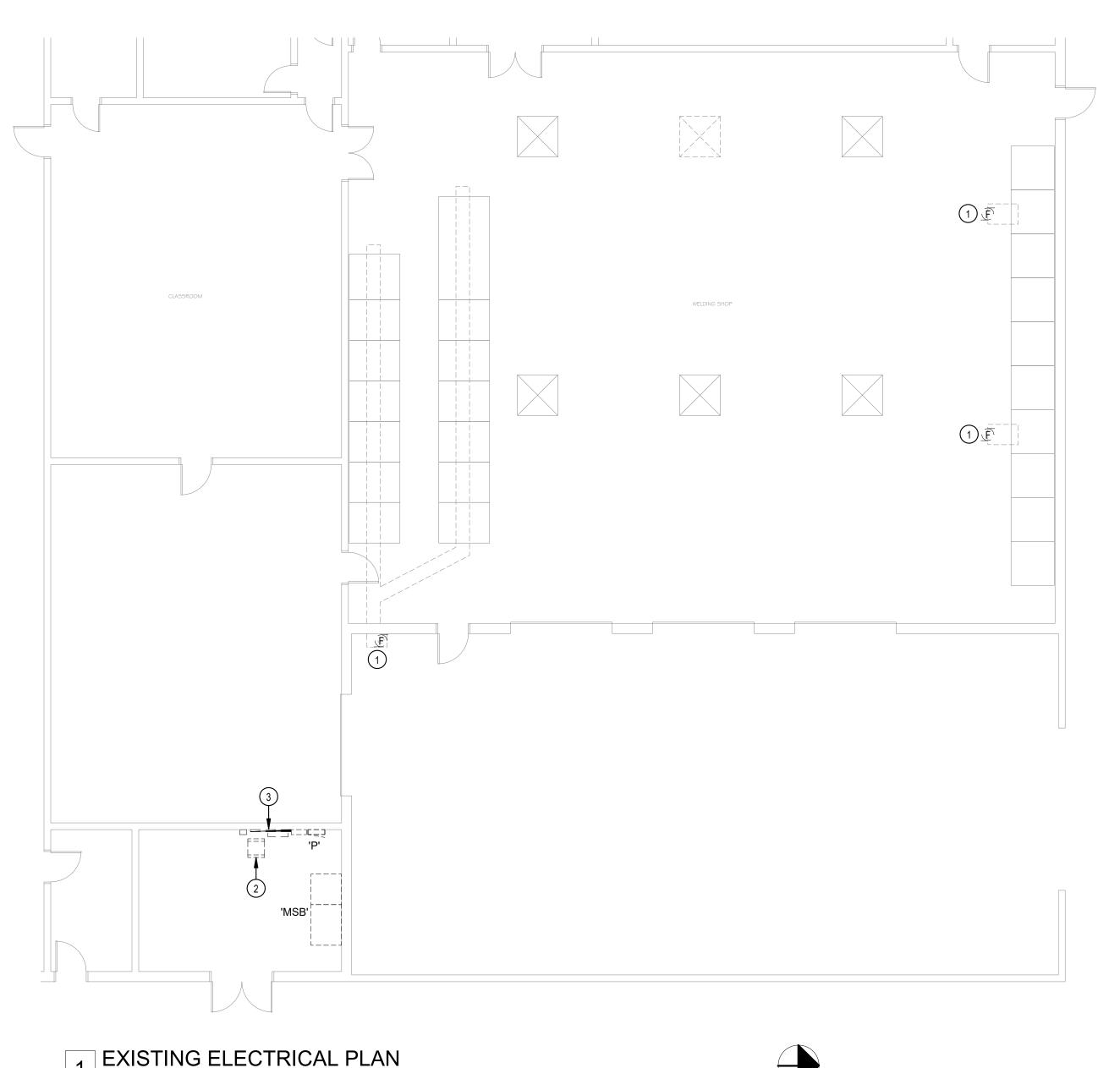
(#) KEY NOTES:

- E.C. SHALL ELECTRICALLY DISCONNECT MECH. EQUIPMENT FOR REMOVAL. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS BACK TO SOURCE. MAINTAIN/RE-ESTABLISH ALL DOWNSTREAM DEVICES THAT ARE TO REMAIN.
- COORDINATE WITH MECH. CONTRACTOR. EXISTING TRANSFORMER TO BE RELOCATED BY OWNER TO ACCOMMODATE SPACE FOR NEW PANEL; E.C. SHALL
- COORDINATE WORK WITH OWNER. EXISTING ABANDONED TELECOMM. DEMARC, CONDUITS AND WIRING TO BE REMOVED BY OWNER TO ACCOMMODATE NEW PANEL; E.C. SHALL COORDINATE WORK WITH OWNER.

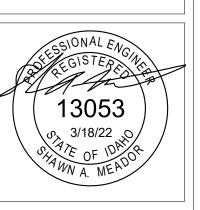
A. ALL EXISTING ELECTRICAL MAY NOT APPEAR ON THESE PLANS, HOWEVER THE ABOVE INFORMATION APPLIES. B. PROVIDE AND INSTALL BLANK COVERS ON ALL UNUSED SWITCH/OUTLET/J-BOXES WHERE REQUIRED.

DEMOLITION GENERAL NOTES:

- ALL WALL DEVICES THAT ARE EXISTING TO REMAIN, SHALL BE ADAPTED TO NEW WALL COVERINGS, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS,
- THICKNESS, ETC. PRIOR TO THE START OF ANY DEMOLITION WORK, DISCONNECTING ANY POWER AND OR TELE/DATA SYSTEMS, THE CONTRACTOR SHALL COORDINATE DOWN-TIME WITH
- THE OWNER. REMOVE OR RELOCATE ELECTRICAL AS NECESSARY FOR
- NEW WORK. WHERE EXISTING CIRCUITS ARE TO BE RE-USED, EXTEND AS NECESSARY. MAINTAIN ELECTRICAL CONTINUITY TO DOWNSTREAM EQUIPMENT TO REMAIN.
- EXISTING SHOWN TO REMAIN, MAY NEED TO BE REMOVED AND RE-INSTALLED ONLY AS NECESSARY FOR EXTENDING OR MODIFICATION OF EXISTING CIRCUITS OR WIRING.
- REFER TO MECHANICAL PLANS FOR EXTENT OF MECHANICAL EQUIPMENT TO BE REMOVED OR RELOCATED. REMOVE ALL UNUSED EQUIPMENT WIRING, CONDUIT AND BOXES IN ALL AREAS. ABANDON ONLY IN CONCEALED
- CONTRACTOR MY UTILIZE ANY EXISTING CONDUIT WHERE COMPATIBLE WITH NEW DESIGN, AND IF IN GOOD CONDITION AND COMPLIES WITH SPECIFICATIONS.
- WHEN ANY MODIFICATIONS ARE MADE TO ANY EXISTING ELECTRICAL PANEL TO REMAIN, CONTRACTOR TO PROVIDE NEW TYPE WRITTEN INDEX TO REFLECT ALL NEW AND EXISTING LOADS.
- REMOVE ALL EQUIPMENT, RACEWAYS, CABLES, ETC. NOT USED IN FINISHED AREAS.







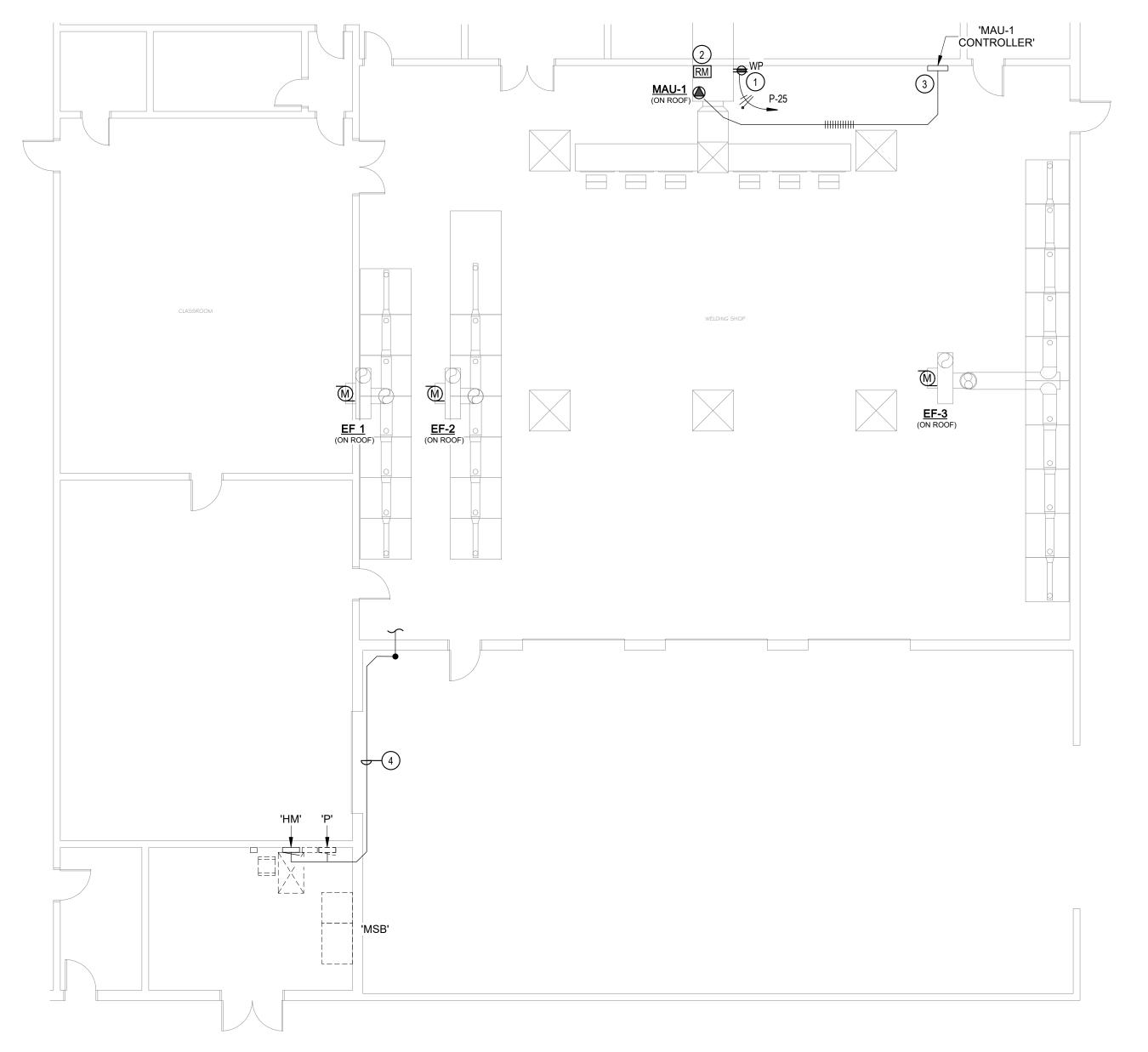
trict $\frac{1}{S}$ 1800 Bench Road Pocatello, Idaho, 832 High Highland

Project Number: 3/10/2022

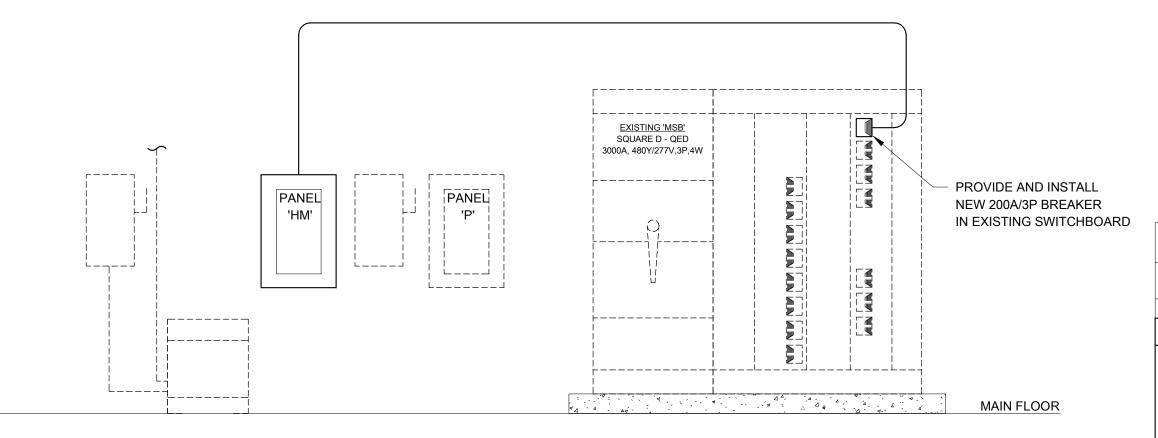
Designed By: Checked By: Sheet Title:

ELECTRICAL SYMBOLS & **EXISTING** ELEC. PLAN

E0.0







2 PARTIAL POWER RISER DIAGRAM SCALE: 12" = 1'-0"

SCALE: 1/8" = 1'-0"

MECHANICAL - MAKE-UP AIR UNIT SCHEDULE										
EQUIP. ID	VOLTS	PH.	MCA	MOCP	CIRCUIT	FEEDER	DISCONNECT	NOTES		
MAU-1	480 V	3	17 A	25 A	HM-1,3,5	3/4"C.,3#10+1#10G	30 A NONFUSED - 3R	1		

MECHANICAL - EXHAUST FAN SCHEDULE										
	COMBINATION									
EQUIP. ID	VOLTS/PH.	HP	FLA	CONTROL	CIRCUIT	FEEDER	DISC./STARTER	NOTES		
EF-1	480 V / 3	5	8 A	INTERLOCK W/ MAU-1	HM-2,4,6	3/4"C.,3#10+1#10G	30 A FUSED - 3R/SIZE 0	2,3		
EF-2	480 V / 3	7-1/2	15 A	INTERLOCK W/ MAU-1	HM-8,10,12	3/4"C.,3#12+1#12G	30 A FUSED - 3R/SIZE 1	2,3		
EF-3	480 V / 3	7-1/2	15 A	INTERLOCK W/ MAU-1	HM-14,16,18	3/4"C.,3#12+1#12G	30 A FUSED - 3R/SIZE 1	2,3		

MECHANICAL SCHEDULE NOTES:

CIRCUIT DESCRIPTION

3 Welding - MAU

7 SPARE

9 SPARE

11 SPARE

13 SPARE

15 SPARE

17 SPARE

19 SPARE

21 PREPARED SPACE

23 PREPARED SPACE

25 PREPARED SPACE

27 PREPARED SPACE

31 PREPARED SPACE

33 PREPARED SPACE

35 PREPARED SPACE

37 PREPARED SPACE

39 PREPARED SPACE

41 PREPARED SPACE

A = ARC-FAULT BREAKER

S = SHUNT-TRIP BREAKER

BRK NOTES:

29 PREPARED SPACE

- E.C. SHALL PROVIDE LOCAL DISCONNECT SWITCH FOR EQUIPMENT; SIZE AND TYPE AS INDICATED IN SCHEDULE. IF FUSED DISCONNECT IS SPECIFIED FOR EQUIPMENT, FUSE PER EQUIPMENT NAMEPLATE RATING.
- E.C. SHALL PROVIDE COMBINATION STARTER/DISCONNECT SWITCH FOR EQUIPMENT; SIZE AND TYPE AS INDICATED IN SCHEDULE. PROVIDE WITH CONTROL XFMR (2) SETS OF NO/NC CONTACTS, CONTROLS WITH M.C. PRIOR TO ROUGH-IN. FUSE DISCONNECT PER EQUIPMENT
- INTERLOCK EXHAUST FAN WITH MAU-1; COORDINATE WITH MECH. CONTRACTOR.

PAYNE ENGINEERING

P AMPS NOTE

15 A

20 A

20 A

20 A

20 A

1 20 A

1 20 A

LCP = CRKT TO BE ROUTED THROUGH LTG CONTROL PANEL

PANEL:	HM			
LOCATION:		VOLTAGE:	480/277 Wye	A.I.C. RATIN
FED FROM:	MSB	PHASES:	3	PANEL TY
MOUNTING: S	SURFACE	WIRES:	4	PANEL AM
ENCLOSURE: 1	NEMA 1	BUSSING:	SEE SPEC'S	MBR AM
MFG & MODEL:	SQ. D/NF SERIES	DIMENSIONS:	20"W x 5.8"D x *"H	FEI

NOTE AMPS P

-- 20 A 1

-- 20 A 1

-- 20 A 1

-- 20 A 1

-- -- 1 -- -- 1

TOTAL ESTIMATED DEMAND AMPS:

GP = GFEPD BREAKER

G = GFCI BREAKER

25 A 3

-- 20 A 1 0 4157

-- | 20 A | 1 | 0 | 4157 |

-- 20 A 1 0 0

-- -- 1 -- 0 -- -- 1 -- 1

-- | -- | 1 | -- | --

-- -- 1 -- ---- -- 1 -- 1

TOTAL AMPS: 51 A

3702 | 2106 |

3702 2106

0 4157

0 4157

-- 0

51 A 51 A

R = RED HANDLED, LOCK-OUT TYPE

TOTAL LOAD: 14.1 kVA | 14.1 kVA | 14.1 kVA

TING: 35k TYPE: MLO **MPS**: 225 A MPS: N/A FEED: TOP

3702 2106

0 4157

0 4157

-- 0 1 20 A

Highland High School Welding Shop Exhaust System

PROJECT:

CIRCUIT DESCRIPTION

Welding - EF 1

Welding - EF 2

Welding - EF 3

-- SPARE

-- SPARE

-- SPARE

1 -- PREPARED SPACE

1 -- PREPARED SPACE

1 -- PREPARED SPACE

1 -- PREPARED SPACE

-- | -- | 1 | -- | -- | PREPARED SPACE

-- - 1 -- PREPARED SPACE

-- - 1 -- PREPARED SPACE

KEY NOTES:

CKT

2

8

10

12

14 16

18

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22

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34

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42

- RECEPTACLE MOUNTED TO HVAC UNIT, COORDINATE MOUNTING WITH M.C. PRIOR TO ROUGH-IN.
- PROVIDE FIRE ALARM RELAY/MONITOR MODULE FOR INTERCONNECTION TO MAKE-UP AIR UNIT, UNIT SHALL DOWN UPON ACTIVATION OF BUILDING FIRE ALARM SYSTEM.
- MAU CONTROLLER PROVIDED AND INSTALLED BY M.C. E.C. SHALL PROVIDE, INSTALL AND TERMINATE CONDUCTORS/CABLE BETWEEN CONTROLLER AND UNIT PROVIDE 1"C., (9)#14 AND (1) 2 CONDUCTOR SHIELDED CABLE PER MAU MANUFACTURER SHOP DRAWINGS. E.C. SHALL COORDINATE FIELD VERIFY EXACT CONDUCTOR/CABLE COLORS AND REQUIREMENTS WITH M.C. PRIOR TO INSTALLATION.
- TO AVOID ROOF PENETRATIONS, CONDUITS/CONDUCTORS FOR NEW MECH. EQUIPMENT SHALL BE ROUTED THROUGH WALL AND RAN ON EXTERIOR HIGH ON WALL THEN TRANSITION TO ROOF, FIELD VERIFY EXACT CONDUIT

GENERAL NOTES:

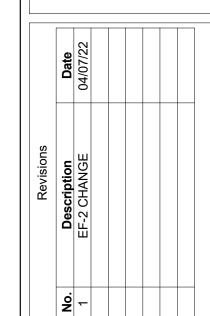
A. REFER TO SYMBOL SCHEDULE SHEET FOR PROJECT GENERAL NOTES AND GENERAL NOTES ASSOCIATED WITH THE INSTALLATION OF EACH SYSTEM, INCLUDINB BUT NOT LIMITED TO; LIGHTING, POWER, FIRE ALARM, SPECIAL SYSTEMS, ETC.

FIRE ALARM EXPANSION NOTES:

- PROVIDE ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EXPAND THE EXISTING BUILDING FIRE ALARM SYSTEM. THE SYSTEM ADDITION SHALL BE CONNECTED DIRECTLY TO THE EXISTING MAIN FIRE ALARM
- THE INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND ACCEPTED BY THE LOCAL AHJ. WHEN THE SYSTEM IS COMPLETE, A FACTORY REPRESENTATIVE SHALL TEST THE SYSTEM, MAKE ADJUSTMENTS AND PLACE THE SYSTEM IN OPERATING ORDER.

WITHIN 30 DAYS AFTER THE CONTRACT AWARD AND PRIOR TO THE

- PURCHASE OF ANY EQUIPMENT, THE FIRE ALARM SYSTEM CONTRACTOR SHALL SUBMIT FOR APPROVAL SIX (6) COPIES OF THE FOLLOWING: a. A LIST OF MATERIALS THAT ARE TO BE USED ON THE PROJECT, INCLUDING MANUFACTURER, MODEL NUMBER AND TECHNICAL
- INFORMATION. b. PRELIMINARY CIRCUIT DIAGRAMS SHOWING INTERCONNECTION OF ALL MONITORING, NOTIFICATION AND ANNUNCIATION DEVICES, PANELS AND WIRING COUNTS. DIAGRAMS ARE TO BE 11"X17", DONE IN A GOOD WORKMAN LIKE MANNER.
- c. TECHNICAL MANUALS FOR ALL OF THE EQUIPMENT THAT IS TO BE USED ON THE PROJECT.
- d. SUBMIT SHOP DRAWINGS AND REQUIRED CALCULATIONS TO THE
- e. OBTAIN A WRITTEN LETTER OF ACCEPTANCE OF THE PROPOSED SYSTEM AND INCLUDE WITH THE SHOP DRAWING SUBMITTAL TO THE ENGINEER.
- . CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED POWER SUPPLIES, ELECTRONICS AND CONNECTIONS TO MODIFY EXISTING SYSTEM TO ACCEPT NEW ADDITION. THE COMPLETE SYSTEM SHALL MAINTAIN A UL
- ELECTRICAL CONTRACTOR SHALL INCLUDE A \$2,000.00 CASH ALLOWANCE IN THE BID FOR MISCELLANEOUS ADDITIONS AND/OR REQUIREMENTS IMPOSED BY THE LOCAL AHJ.
- - ROUTING WITH EXISTING CONDITIONS.



Pocatello / Chubb Highland High Sc 1800 Bench Road Pocatello, Idaho, 8320

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	2007				
Project Number:	2237				
Date:	3/10/2022				
Designed By:	SAM				
Checked By:	TEP				

ELECTRICAL PLAN, RISER SCHEDULES

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