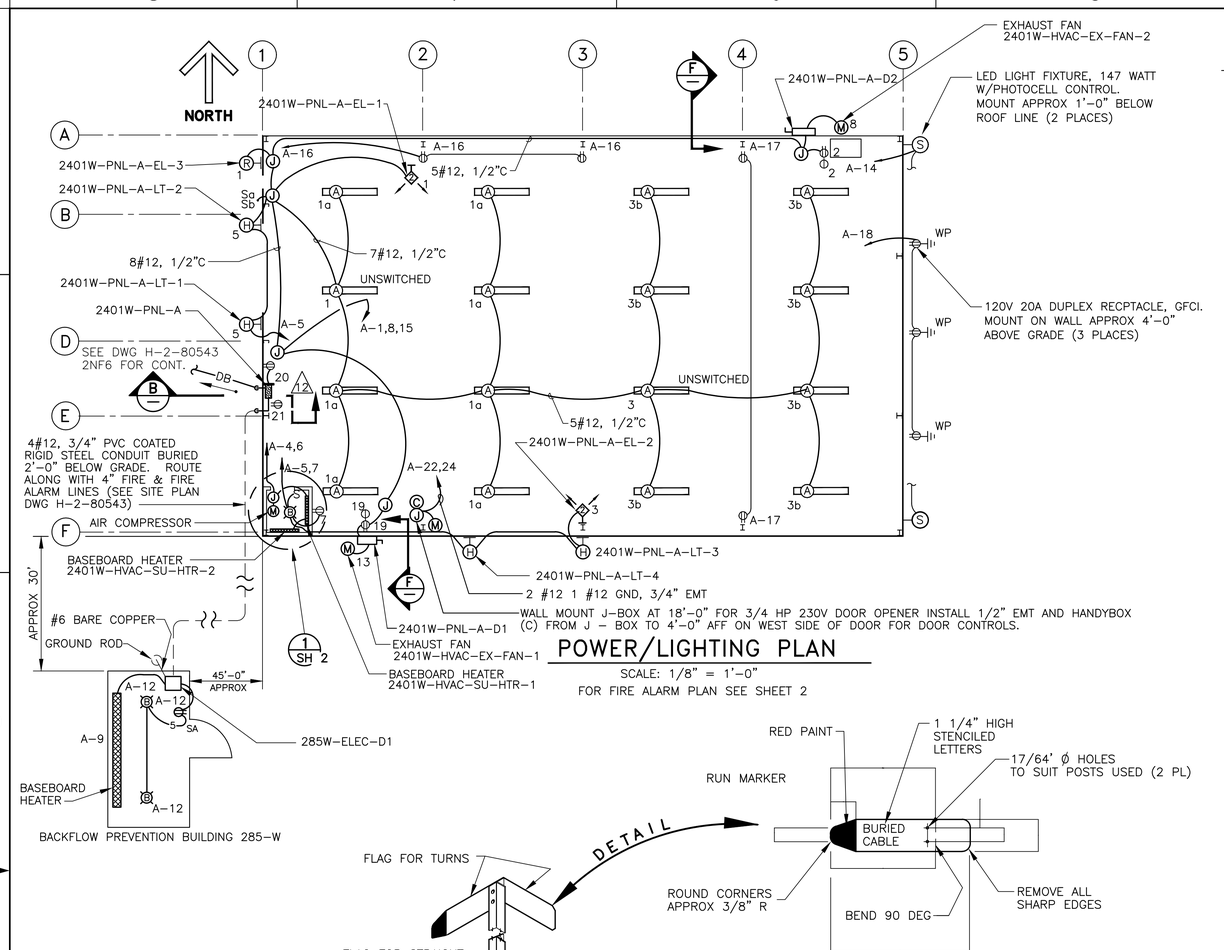
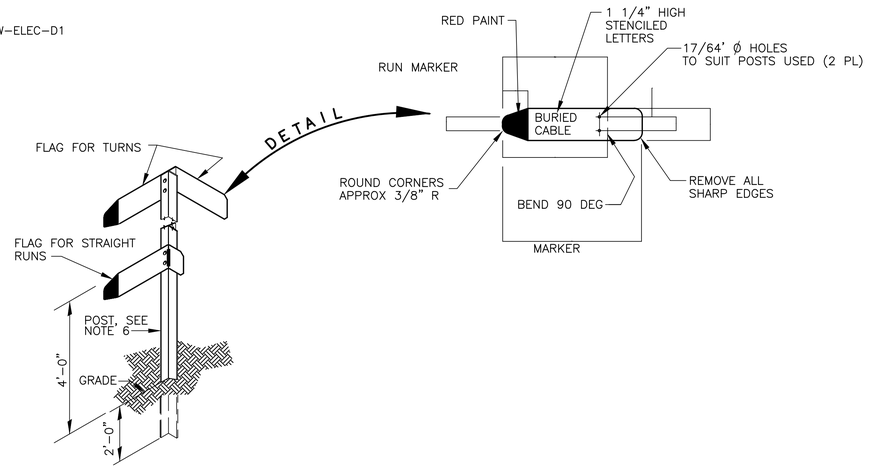


POWER/LIGHTING PLAN

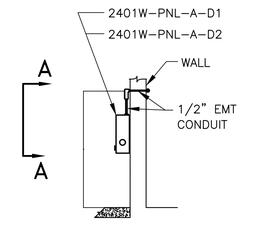
SCALE: 1/8" = 1'-0"

FOR FIRE ALARM PLAN SEE SHEET 2



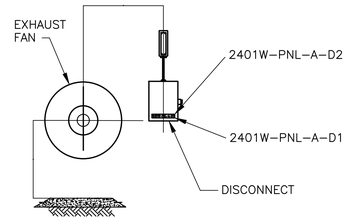
D POST DETAIL

SCALE: NONE



F SECTION

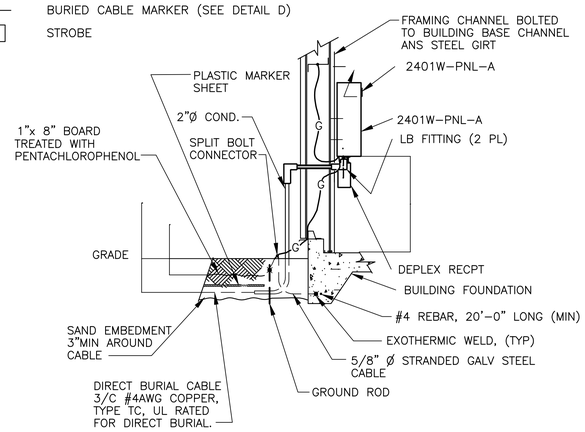
SCALE: NONE



VIEW A-A

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION (SEE NOTE-1)
	EXPOSED CONDUIT, HATCH MARKS INDICATE QUANTITY OF #12 AWG CONDUCTORS IN 1/2"CONDUIT. CONDUITS UNMARKED ARE 1/2" WITH 2 #12
A-1,3,5	HOMERUN CONDUIT (CIRCUITS 1,3, AND 5 TO PANEL "A" INDICATED)
G	GROUND CONDUCTOR NO. 6 BARE SOLID COPPER
DB	DIRECT BURIAL CABLE
J	JUNCTION BOX
	DUPLEX RECEPTACLE, MOUNT AT 48", UNLESS NOTED OTHERWISE, (CIRCUIT 4 INDICATED)
	SINGLE RECEPTACLE, (SPECIAL PLUG)
Sa	SINGLE POLE TOGGLE SWITCH, MOUNT AT 4'-6" ON EXTERIOR OF BUILDING. LOWER CASE LETTER INDICATES CONTROLLED EQUIPMENT
2a J	LIGHTING FIXTURE, LETTER DENOTES FIXTURE TYPE (CIRCUIT 2, SWITCH a INDICATED), MOUNT AT 18'-0"
	INCANDESCENT LIGHTING FIXTURE, LETTER DENOTES FIXTURE TYPE
H	LED LIGHTING FIXTURE FOR LUMINAIRE SCHEDULE SEE H-2-836604 SH1
R	REMOTE ALARM LIGHT (FIXED HEAD AIR SAMPLER) A.I.P.
2	EMERGENCY LIGHTING FIXTURE, BATTERY POWERED (2 LAMPS INDICATED) ARROWS INDICATE BEAM DIRECTION, MOUNT AT 14'-0"
M	MOTOR
	LIGHTING AND POWER PANELBOARD
	FIRE ALARM MANUAL STATION, MOUNT AT 5'-0"
FAS	FLOW ALARM PRESSURE SWITCH
TS	SUPERVISORY SWITCH (TAMPERPROOF)
HLPS	PRESSURE SUPERVISORY SWITCH HIGH/LOW
LT	LOW TEMPERATURE SUPERVISORY SWITCH
EOL	END-OF-LINE DEVICE
	BURIED CABLE MARKER (SEE DETAIL D)
S	STROBE



B SECTION VIEW

SCALE: NONE

PANELBOARD: 2401W-PNL-A LOCATION: 2401W VOLTS: 120/240VAC, 1PH, 3W

NEMA TYPE: 1 ■ SURFACE MOUNT □ FLUSH MOUNT | ■ MAIN BREAKER □ LUGS ONLY ■ TOP □ BOTTOM | 225A BUS ■ NEUTRAL BAR ■ GROUND BUS | □ PANELBOARD GROUND FAULT PROTECTION □ OTHER

SCHEDULE ONE LINE H-2-80544-1; H-2-80544-2
FED FROM XFMR C694L
PLAN DWG H-2-80544-1
LAST REV / DATE REV 17 / 11/24/25

SERVICE	KVA	NO.	A	B	NO.	KVA	SERVICE
WEST LIGHTS/ EMG LIGHTS N WALL	2880	1	200A		2	720	RCPTS AND INACTIVE BCN
EAST LIGHTS EMG LIGHTS S WALL		3	20A	20A	4	750	FIRE RISER RM BASE BD HTR
ENCL, EXT & LIGHTING	80	5	20A	20A	6	500	FIRE RISER RM AIR CPRSR
SW RECEPTACLES	360	7	20A	20A	8	830	NE EXHAUST FAN
BACKFLOW BLDG HTR	2000	9	20A	20A	10		
		11	20A	20A	12	480	BACKFLOW BLDG LTG & RCPT
SW EXHAUST FAN	360	13	20A	20A	14	294	EAST OUTSIDE LIGHTS
		15	20A	20A	16	720	NORTH RECEPTACLES
1 NE & 1 SE WALL RECPTCL	720	17	20A	20A	18	540	EAST OUTSIDE RCPTS
RCPTS AND INACTIVE BCN	720	19	20A	20A	20	720	W WALL N RECEPTACLE
W WALL S RECEPTACLE	720	21			22	375	SOUTH OHD OPERATOR
					24	375	
SPACE		23			26		SPACE
SPACE		25			28		SPACE
SPACE		27			30		SPACE
SPACE		29			32		SPACE
SPACE		31			34		SPACE
SPACE		33			36		SPACE
SPACE		35			38		SPACE
SPACE		37			40		SPACE
SPACE		39			42		SPACE
SPACE		41					

REMARKS:
225A

PANELBOARD SCHEDULE

NOTES

1. SEE CONSTRUCTION SPECIFICATION CRO385-C1 FOR MATERIAL DESCRIPTION AND INSTALLATION INSTRUCTIONS.
2. POST SHALL BE COMMERCIAL STEEL FENCE POST. PAINT FLAG AND POST HIGH – VISIBILITY YELLOW.
3. SEE CONSTRUCTION SPECIFICATION CRO385-C1 FOR SPECIAL PROTECTIVE COATING (SPC) APPLICATION INSTRUCTIONS
4. HLPS CONSISTS OF A DUAL PRESSURE SWITCH CONFIGURATED TO MONITOR AIR PRESSURES ABOVE 50 PSI AND BELOW 30 PSI. ALL HLPS SWITCH UNITS CONTAIN DUAL CONTACTS WIRED NORMALLLY OPEN UNDER SUPERVISORY CONDITION IN PARALLEL FOR 2403-WB,2403-WC AND 2403-WD. ALL OTHERS ARE WIRED NORMALLY CLOSED UNDER SUPERVISORY CONDITION IN SERIES. (POTTER ELECTRIC MODEL PS-40-2.)
5. FOR SYSTEMS UNABLE TO SUPPORT N.O. OPERATION, N.C. MAY BE USED.
6. IT IS PERMISSIBLE TO CONNECT AC POWER VIA A CONVENIENCE RECEPTACLE. USE CORD CAP. THIS OPTION IS TO BE USED IN INSTANCES WHERE IT IS NOT COST EFFECTIVE TO RUN POWER WIRING BACK TO THE FACP.
7. A.I.P. – ABANDON IN PLACE
8. FOR LUMINAIRE SCHEDULE AND LIKE-FOR-LIKE REPLACEMENT SEE H-2-836604
9. PARTS TO BE REPLACED WITH LIKE FOR LIKE, LIKE IN KIND, RETROFIT KIT, AND LED UPGRADES PER DA DISCRETION.

Approved for Public Release;
Further Dissemination Unlimited

DATE: Dec 08, 2025 HANFORD RELEASE

DRAWING TRACEABILITY LIST		REFERENCES	
DWG NUMBER	TITLE	REF NUMBER	TITLE
		H-2-836604	LUMINAIRE SCHEDULE
		H-2-80543	CIVIL/ARCH/STRL/HVAC PLANS, ELEV, SECTIONS & DETAILS
		H-2-80545	ARCH/STRL, ELEV & DETAILS
		H-2-97487	ELEC RADIO FIRE ALARM PLAN & DIAG
		NEXT USED ON	END ITEM

MFD REV NO.	DESCRIPTION
17	REVISED PER ECR-25-001242 R00

REVISIONS

BLDG. NO. 2401W 285W

INDEX NO. 7301 7401 7701 7702

CAUTION
NOT COMPLETE WITHOUT CURRENT CHANGE DOCUMENTS FROM DATABASE

ATTENTION
DESTROY THIS DOCUMENT BY SHREDDING MAY CONTAIN SENSITIVE INFORMATION

NAME	DATE	COMPANY
DRAWN BY H9254800-LR CONLEY	12/1/2025	CPCC
ELECTRICAL ENGINEER H0052484-JC GOTTSCHALK	12/1/2025	CPCC
FIRE PROTECTION ENGINEER H0074742-M RODRIGUEZ	12/1/2025	CPCC
DESIGN AUTHORITY H1773842-MM RICHARDS	12/1/2025	CPCC
ENG. MGR H7804727-BG MILLER	12/1/2025	CPCC

U.S. DEPARTMENT OF ENERGY
Richland Operations Office

ELEC/FIRE ALARM PLAN DETAILS & SCHEDULES

SIZE F | DRAWING NUMBER H-2-80544 | SHEET 1 | REV 17
SCALE SHOWN

20505

DOE_TB_F.DWG (JAN 2012)