

ELECTRICAL ABBREVIATIONS

A	—	AMPERES	MCC	—	MOTOR CONTROL CENTER
AC	—	ALTERNATING CURRENT	MCP	—	MOTOR CIRCUIT PROTECTOR
A.F.F.	—	ABOVE FINISHED FLOOR	M.O.D.	—	MOTOR OPERATED DAMPER
A.F.G.	—	ABOVE FINISHED GRADE	N.C.	—	NORMALLY CLOSED
AIC	—	AMPERE INTERRUPTING CAPACITY	N.O.	—	NORMALLY OPEN
ALUM.	—	ALUMINUM	NO.	—	NUMBER
ATS	—	AUTOMATIC TRANSFER SWITCH	P	—	POLE
C	—	CONDUIT	PCS	—	PROCESS CONTROL SYSTEM
CP	—	CONTROL PANEL	PLC	—	PROGRAMMABLE LOGIC CONTROLLER
CT	—	CURRENT TRANSFORMER, CONSTANT TORQUE	PH	—	PHASE
D	—	DEEP	PR.	—	PAIR
DC	—	DIRECT CURRENT	SCH.	—	SCHEDULE
DISC.	—	DISCONNECT	SHLD.	—	SHIELDED
DWG.	—	DRAWING	SN	—	SOLID NEUTRAL
EF	—	EXHAUST FAN	SPD	—	SURGE PROTECTIVE DEVICE
FODP	—	FIBER OPTIC DISTRIBUTION PANEL	S.S.	—	STAINLESS STEEL
G.F.I.	—	GROUND FAULT INTERRUPTER	T–M	—	THERMAL MAGNETIC
GRD.	—	GROUND	TYP.	—	TYPICAL
GRS	—	GALVANIZED RIGID STEEL	V	—	VOLTS
H	—	HIGH	VT	—	VARIABLE TORQUE
H/O/A	—	HAND/OFF/AUTO	VFD	—	VARIABLE FREQUENCY DRIVE
HP	—	HORSEPOWER	W	—	WIRE, WATT, WIDE
IPS	—	INFLUENT PUMP STATION	WP	—	WEATHERPROOF
I/O	—	INPUT/OUTPUT	XFMR	—	TRANSFORMER
KV	—	KILOVOLT			
KW	—	KILOWATT			


ELECTRICAL SYMBOL SCHEDULE

	—	LED LIGHT FIXTURE
	—	EMERGENCY LIGHT FIXTURE
	—	COMBINATION EMERGENCY/EXIT FIXTURE
	—	EMERGENCY LIGHT FIXTURE REMOTE HEAD
	—	EXIT FIXTURE
	—	20A–120V DUPLEX RECEPTACLE
	—	MOTOR (NUMBER INDICATES HP)
	—	DISCONNECT SWITCH
	—	EMERGENCY STOP PUSH BUTTON
	—	PRESSURE SWITCH
	—	PRESSURE TRANSMITTER
	—	TEMPERATURE TRANSMITTER
	—	JUNCTION BOX
	—	THERMOSTAT
	—	TRANSFORMER
	—	SINGLE POLE SWITCH
	—	THREE–WAY SWITCH
	—	WEATHER–PROOF SWITCH
	—	MANUAL STARTER SWITCH WITH THERMAL OVERLOAD
	—	HOME RUN TO PANEL
	—	TICKS INDICATE NUMBER OF WIRES – NOT INCLUDING GROUND CONDUCTOR
	—	WIRING CONCEALED IN CONDUIT
	—	CONDUIT CONCEALED IN FLOOR OR SLAB
	—	CIRCUIT BREAKER
	—	MOTOR STARTER
	—	THERMAL OVERLOAD
	—	CONCRETE ENCASED ELECTRICAL DUCT BANK
	—	DUCT BANK CROSS SECTION
	—	DETAIL IDENTIFICATION
	—	DETAIL IDENTIFICATION SYMBOL
	—	DRAWING NUMBER WHERE DETAIL CAN BE FOUND

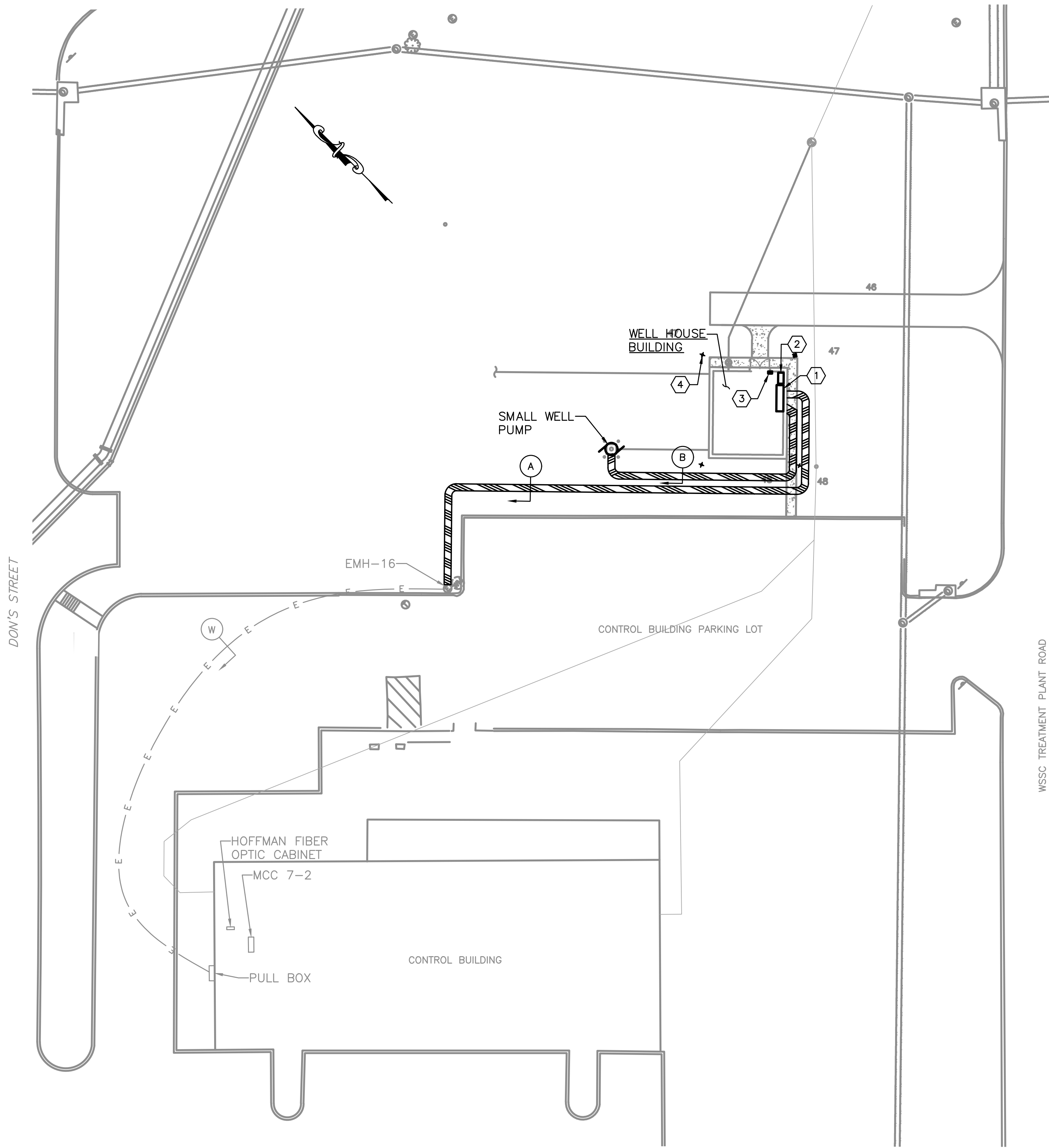
GENERAL ELECTRICAL NOTES (APPLICABLE TO ALL DRAWINGS)

- EXISTING EQUIPMENT IS SHOWN IN A LIGHT WEIGHT AND IDENTIFIED WITH SLANTED TEXT. NEW EQUIPMENT AND WIRING IS SHOWN BOLD.
- ALL FASTENERS AND MOUNTING HARDWARE USED FOR THE INSTALLATION OF ALL ELECTRICAL ITEMS SHALL BE 316 STAINLESS STEEL.
- ALL ALUMINUM BACKBOARDS SHALL BE 3/16 INCH THICK, AND SIZED AS REQUIRED TO ACCOMMODATE EQUIPMENT. EDGES OF BACKBOARDS SHALL BE BEVELED SO THEY ARE SMOOTH.
- ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH TWO COATS OF ZINC CHROMATE PRIMER OR BITUMINOUS PAINT TO PREVENT A REACTION BETWEEN THE ALUMINUM AND CONCRETE.
- WHERE ELECTRICAL EQUIPMENT IS SHOWN MOUNTED ON A CONCRETE PAD, THE PAD SHALL BE 3" HIGH WITH CHAMFERED EDGES. THE PAD SHALL EXTEND 2" BEYOND THE EDGES OF THE EQUIPMENT.
- CONTRACTOR SHALL FURNISH AND INSTALL A SEPARATE INSULATED GROUND CONDUCTOR IN ALL CONDUITS. ALL GROUND CONDUCTORS SHALL BE #12 UNLESS NOTED OTHERWISE ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL UNDERGROUND CONDUITS AND DUCT BANKS TO AVOID INTERFERENCES WITH UNDERGROUND PIPING.
- ALL DUCT BANKS THAT PENETRATE BUILDING WALLS SHALL BE DOWELED INTO THE WALL USING #4 REBAR.
- ALL DUCT BANKS AND CONDUITS SHALL BE SLOPED AWAY FROM BUILDINGS AND STRUCTURES.
- WHERE A WIRING LEGEND IS SHOWN ON A DRAWING, IT ONLY PERTAINS TO THAT DRAWING.
- WIRING SHOWN TO MOTOR DISCONNECT SWITCHES SHALL CONTINUE TO THE MOTOR.
- ALL CONDUITS SHALL BE LABELED INDICATING THE VOLTAGE OF THE WIRING IN THE CONDUIT.
- PROVIDE AN ENGRAVED YELLOW NAMEPLATE ON ALL NEW PANELS INDICATING WHERE THE PANEL IS FED FROM.
- PROVIDE AN ENGRAVED NAMEPLATE ON ALL NEW ELECTRICAL EQUIPMENT INDICATING THE AIC RATING OF THE EQUIPMENT IN ACCORDANCE WITH ARTICLE 110.16 AND 110.24 OF THE NATIONAL ELECTRICAL CODE.

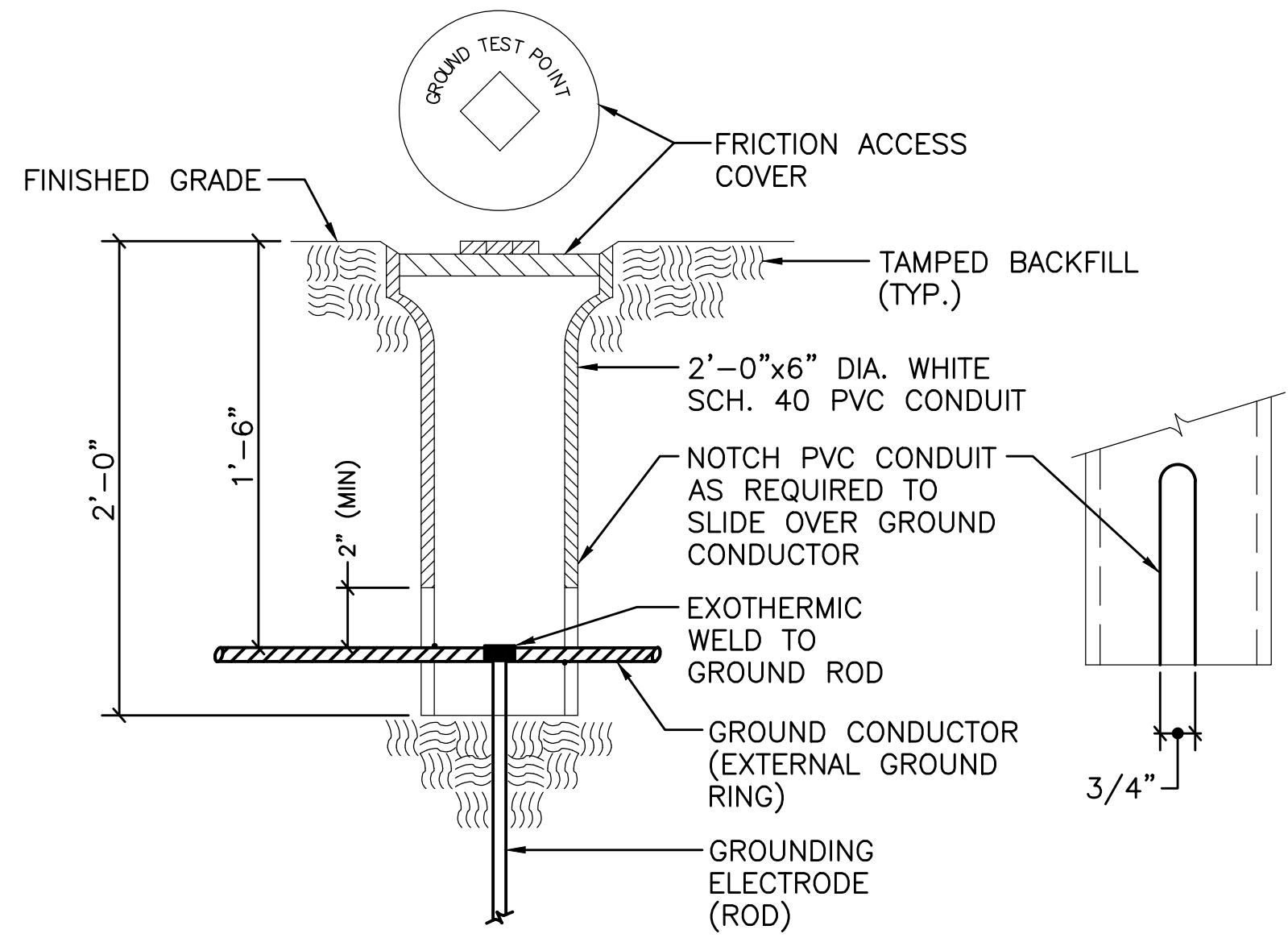
DESIGN:	DLCF	12/19/2025
DRAWN:	CMB	12/19/2025
CHECKED:	KRG	12/19/2025

PROFESSIONAL CERTIFICATION		DATE	REVISIONS	
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. 				
LICENSE NO.: 63295 EXPIRATION DATE: 07/22/2026		CONTRACT: #CD6915B20		
ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES			E-01	NO 44
				OF 62

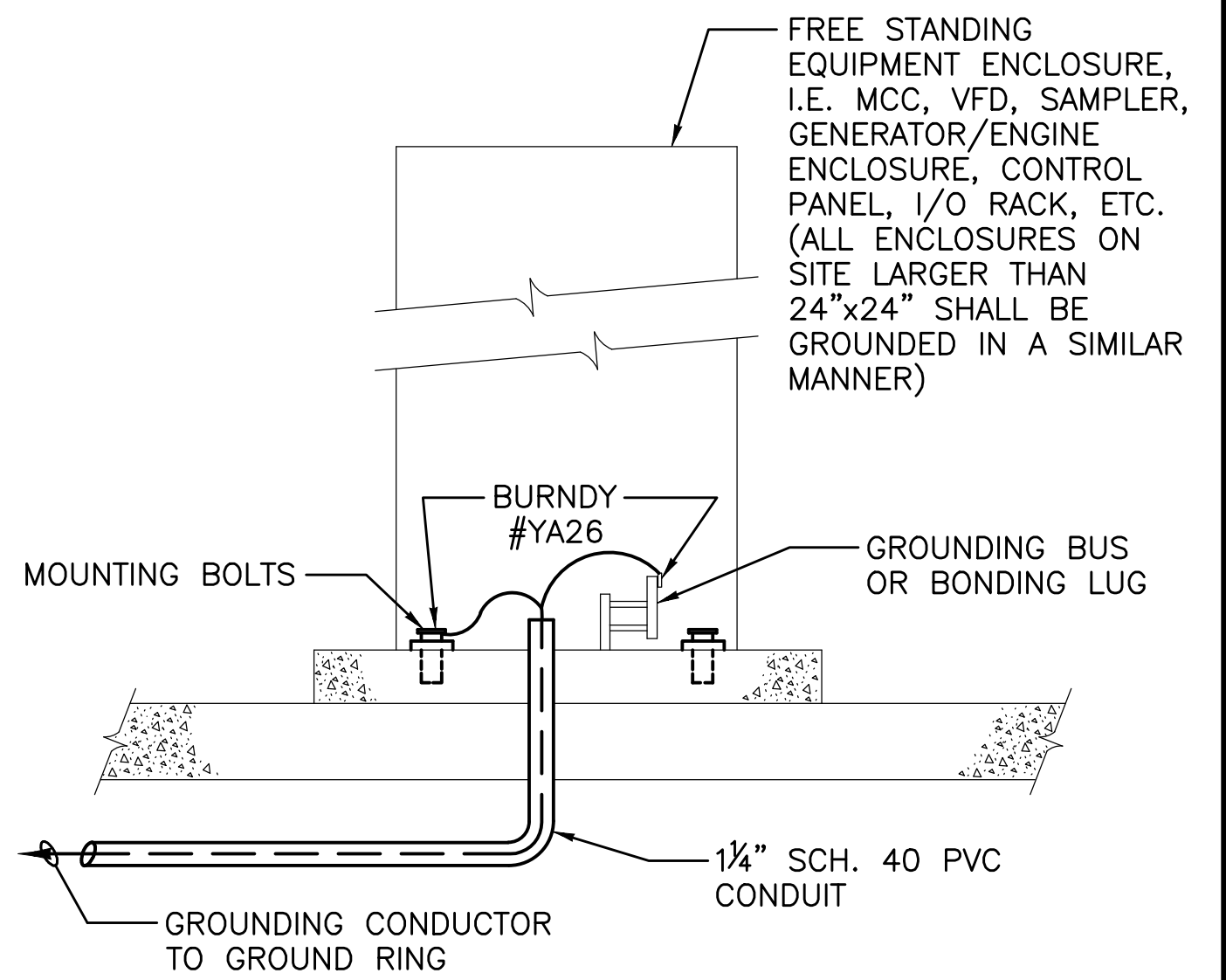
PATH: \\ADIRK\COM\FS\CL\PROJECTS\2021\170_WSSC\PM\STRUTASK2 - WB POTABLE WATER SYSTEM DESIGN\08 DEC. 18\CD\ELECTRICAL\E-02\DWG-E-02.dwg



ELECTRICAL SITE PLAN
1"=20'



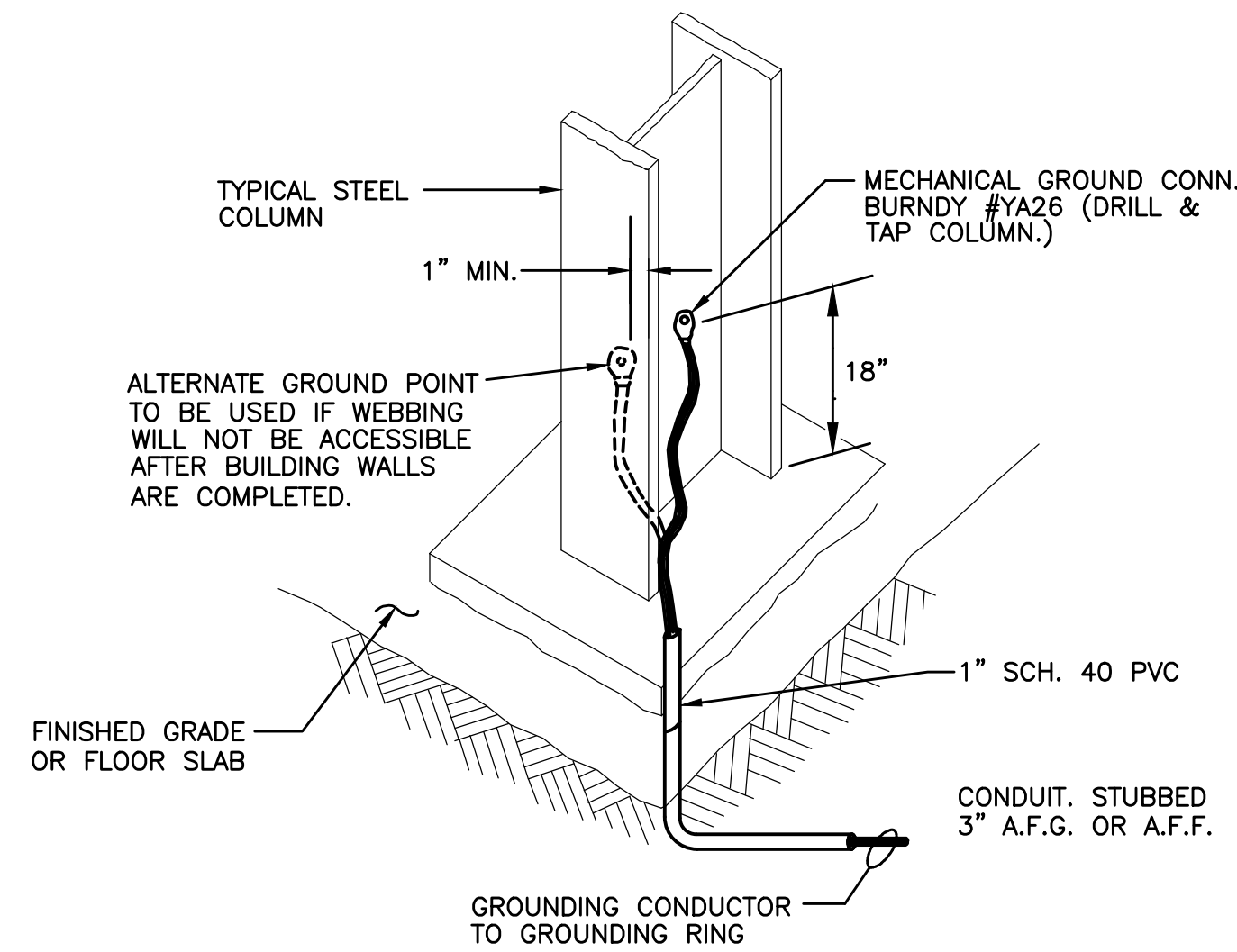
GROUND TEST POINT DETAIL
NO SCALE



MCC GROUNDING DETAIL
NO SCALE

PLAN NOTES

- 1 MCC-WH.
- 2 WELL HOUSE CONTROL PANEL.
- 3 WELL HOUSE FODP. SEE DWG. PCS-02 FOR WIRING.
- 4 GROUND ROD (TYP.) SEE GROUND DETAILS ON THIS DWG. AND E-8 FOR GROUND RING.



GROUNDING CONNECTION TO INDIVIDUAL COLUMN
NO SCALE

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WASHINGTON SUBURBAN SANITARY COMMISSION



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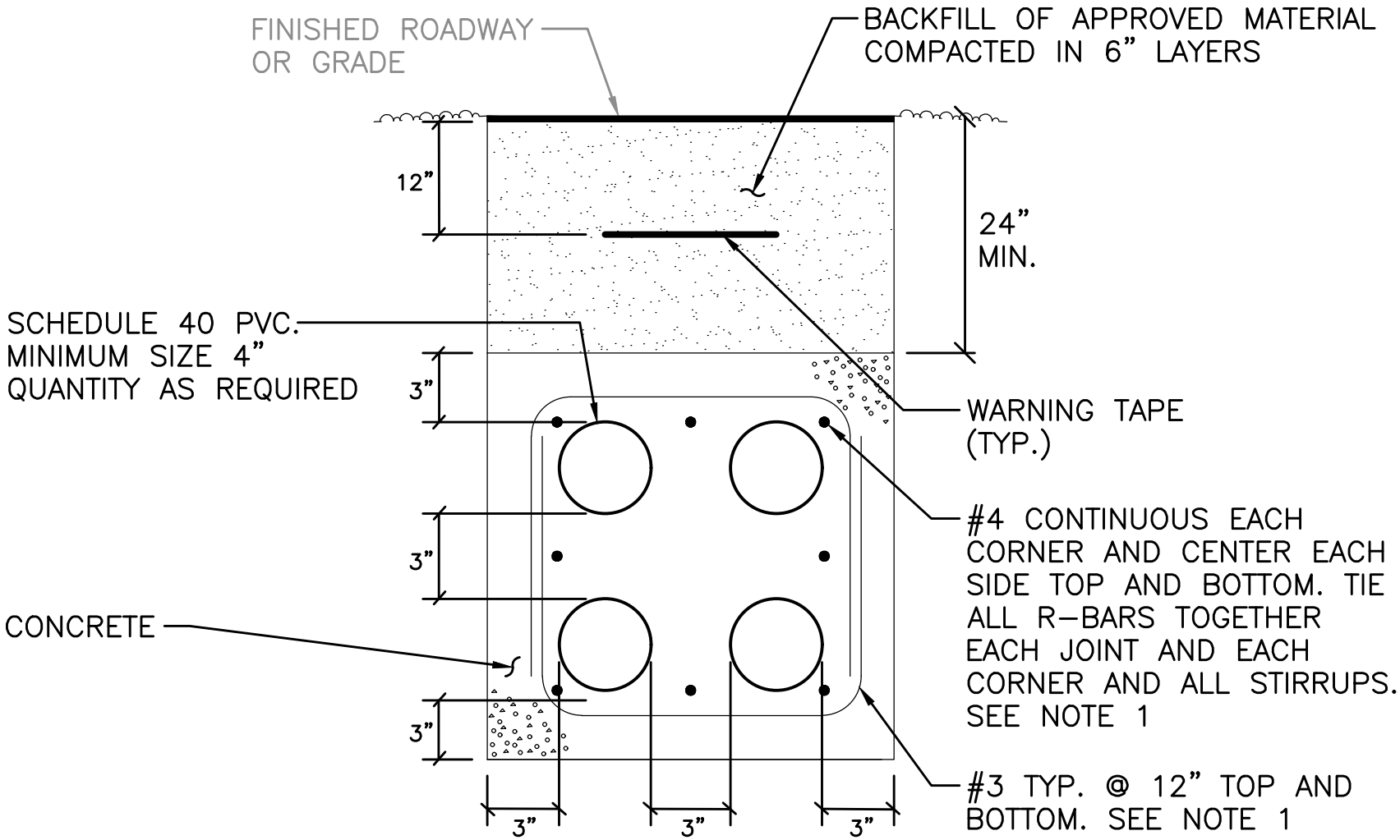
700 EAST PRATT STREET
SUITE 600
BALTIMORE, MD 21201
(P) 410 720-2000
(F) 410 720-2054

WESTERN BRANCH WRRF
POTABLE WATER SYSTEM UPGRADES

WELL HOUSE
ELECTRICAL SITE PLAN

E-02
NO 45
OF 62

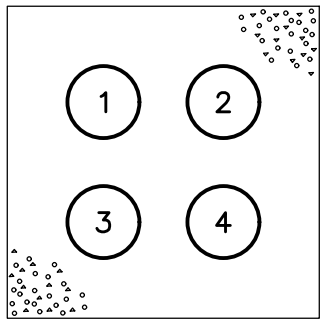
DUCT BANK SCHEDULE					
CONDUIT NO.	CONDUIT SIZE	FROM	TO	CONDUCTORS	CIRCUIT
DUCT BANK A					
1	4"	MCC 7-2, CONTROL BUILDING	MCC-WH, WELL HOUSE	3#250MCM, #4 GRD	MCC-WH FEEDER
2	4"	CONTROL PANEL, WELL HOUSE	PROCESS CONTROL CABINET, NORTH COMMUNICATION ROOM, CONTROL BUILDING	12 PAIR OM3 FIBER OPTIC CABLE	PCS NETWORK
3	4"	N/A	N/A	N/A	SPARE
4	4"	N/A	N/A	N/A	SPARE
DUCT BANK B					
5	2"	WELL PUMP NO. 1 J-BOX	WELL PUMP NO. 1	3#12, #12 GRD.	WELL PUMP NO. 1 FEEDER
6	2"	WELL PUMP NO. 1 J-BOX	N/A	N/A	SPARE
DUCT BANK W					
7	4"	MCC 7-2, CONTROL BUILDING	MCC-WH, WELL HOUSE	3#250MCM, #4 GRD	MCC-WH FEEDER
8	4"	CONTROL PANEL, WELL HOUSE	PROCESS CONTROL CABINET, NORTH COMMUNICATION ROOM, CONTROL BUILDING	12 PAIR OM3 FIBER OPTIC CABLE	PCS NETWORK
9	4"	N/A	N/A	N/A	SPARE



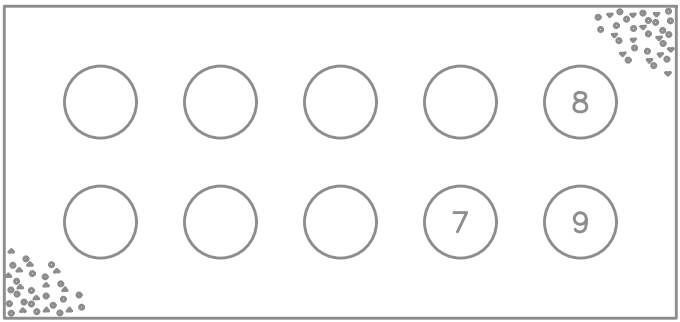
TYPICAL CONCRETE ENCASED DUCT BANK
NO SCALE

NOTES

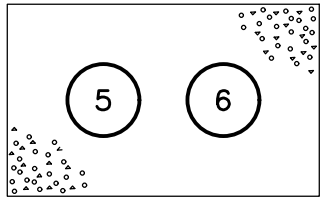
1. PROVIDE REINFORCING R-BARS WHEN CROSSING ROADWAYS AND WHEN ENTERING BUILDINGS OR MANHOLES TO BRIDGE DISTURBED EARTH DURING EXCAVATION. ANCHOR DUCT BANK TO STRUCTURES USING R-BAR DOWELS EPOXIED INTO STRUCTURE.
2. 3,500 PSI CONCRETE AT 28 DAYS MINIMUM.
3. PROVIDE SPACERS AND TIE-DOWNS APPROXIMATELY 6 1/2 TO 7 FEET APART.



DUCT BANK A
NO SCALE



DUCT BANK W
NO SCALE



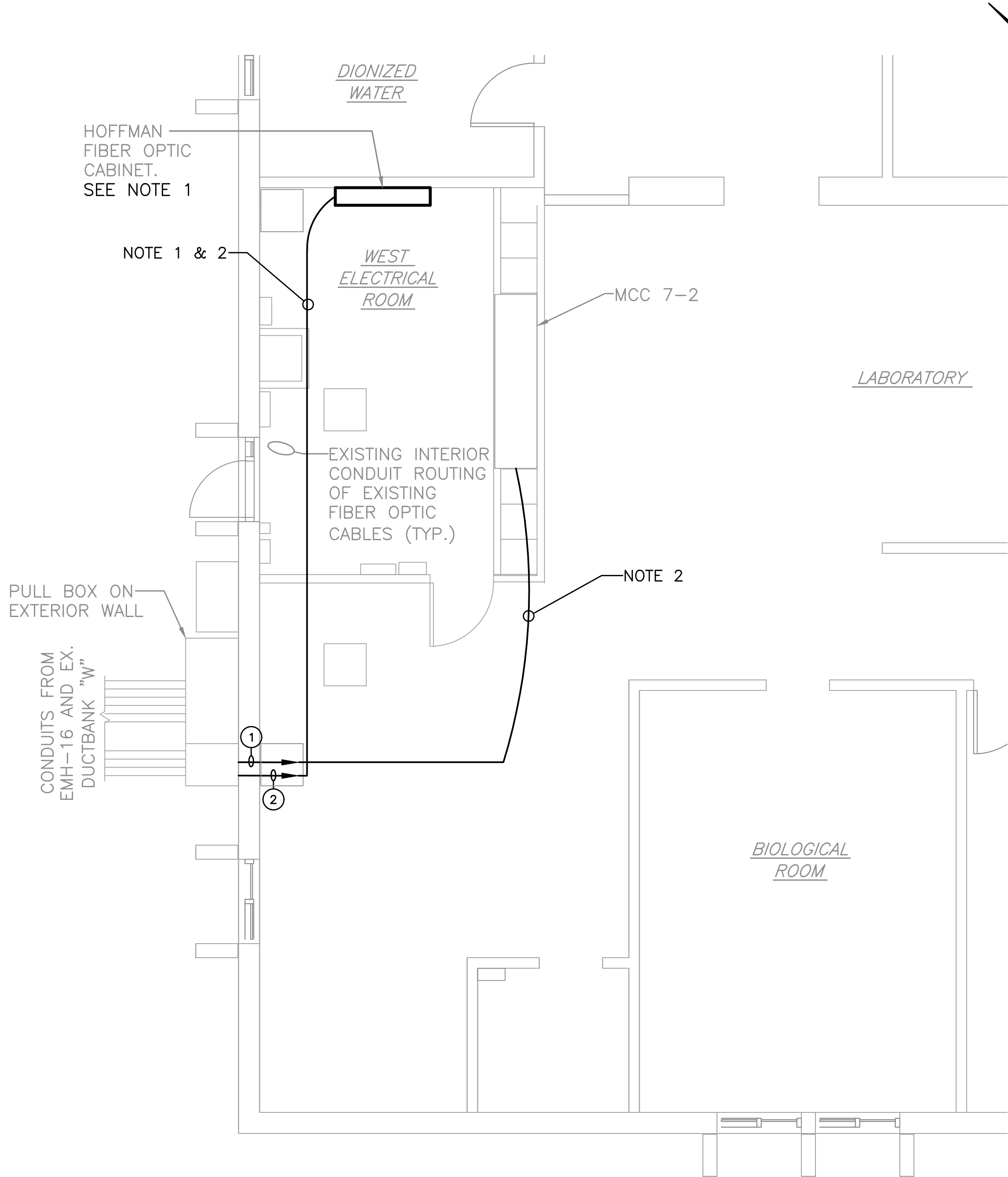
DUCT BANK B
NO SCALE

Well House		MCC-WH					VOLTS
Total Qty.	Qty. Running	Description	Control	KW	HP	FLA	277/480V Total FLA
1	0	POTABLE WELL PUMP	MS		5	7.6	0
1	1	HIGH FLOW WELL PUMP	VFD		125	156	156
1	1	UNIT HEATER	CB	10		12	12
1	1	EXHAUST FAN	MS		2	3.4	3.4
1	1	9 KVA TRANSFORMER for 120/208 volt loads		9		10.8	10.8

LOAD CALCULATIONS

DESIGN:	DLCF	12/19/2025
DRAWN:	CMB	12/19/2025
CHECKED:	KRG	12/19/2025

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CONTRACT: #CD6915B20			



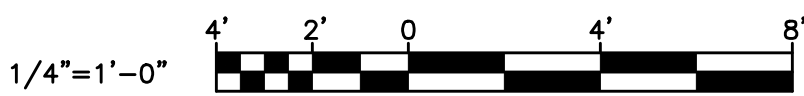
PLAN NOTES

- 1. THE CONTRACTOR SHALL TEST AND TERMINATE THE FIBER OPTIC CABLES AT THE TERMINATION POINTS. WSSC WILL BE RESPONSIBLE FOR FINAL CONNECTIONS BETWEEN THE FODP AND RIO/PLC.
- 2. ROUTE CONDUIT ABOVE DROP CEILING. SUPPORT CONDUIT WITH GALVANIZED STRUTS ATTACHED TO TREADED RODS CONNECTED WITH BEAM CLAMPS TO ROOF SUPPORTS.

WIRING LEGEND

- ① 3#250, #4 GRD.-4"C TO MCC 7-2
- ② 12 STRAND ARMORED FIBER OPTIC CABLE IN 3/4"C TO HOFFMAN FIBER OPTIC CABINET

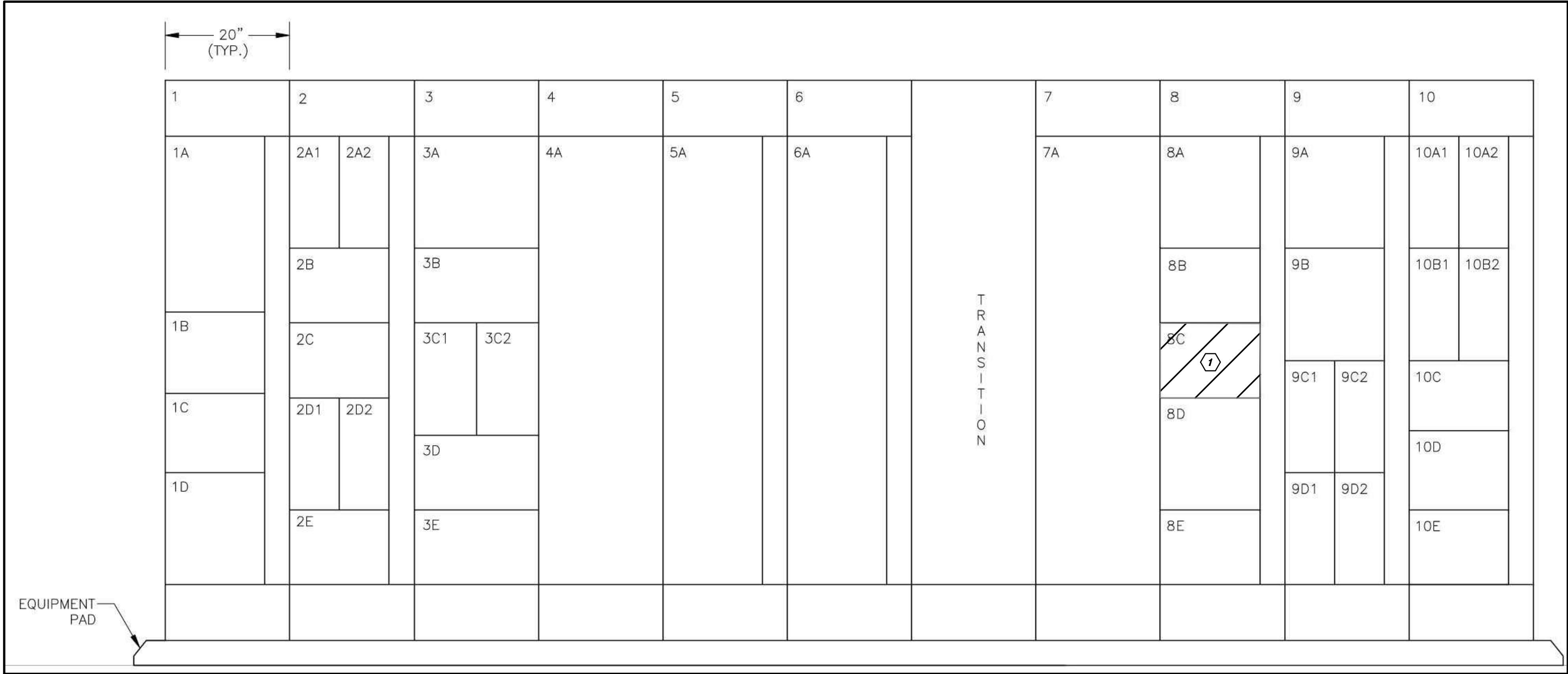
CONTROL BUILDING
ELECTRICAL PLAN



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LICENSE NO.: 63295 EXPIRATION DATE: 07/22/2026		CONTRACT: #CD6915B20	

PATH: I:\40 RK\COM\FS\G\LOUD\PROJECTS\2021\2170_WSSCP\INSTRUTASK2 - WB POTABLE WATER SYSTEM DESIGN\06 CELE - 1A CELE\TRACAL\06 MCC72 ELEV.DWG\E-Michael Brodbeck

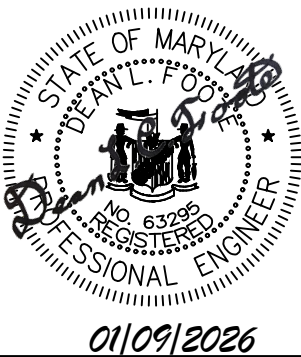


EXISTING MCC 7-2 ELEVATION

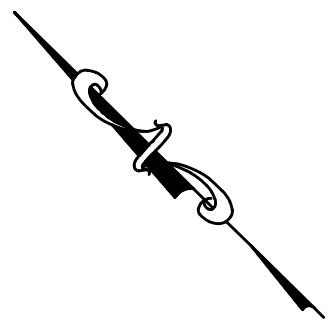
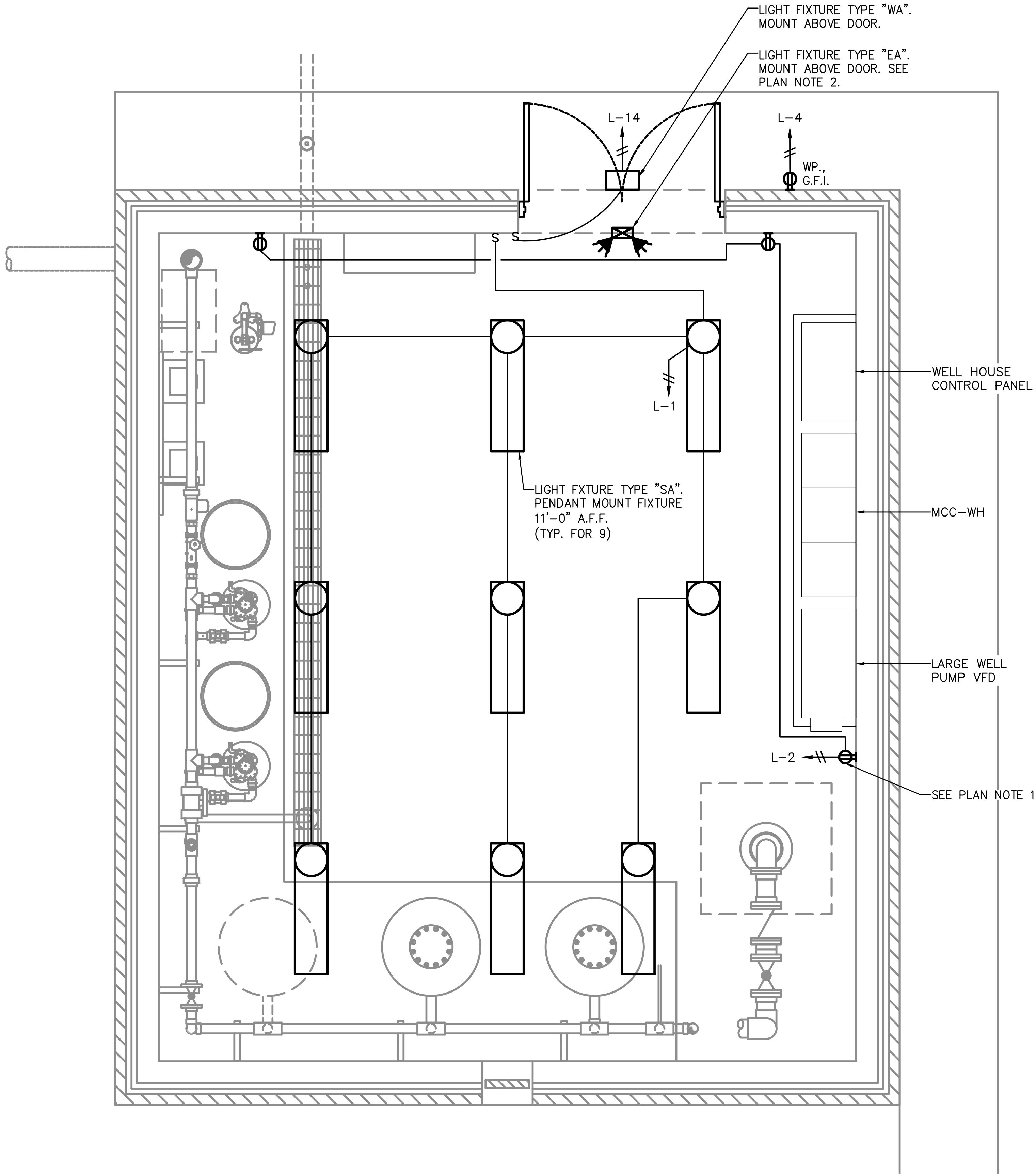
MCC MODIFICATIONS

- 1 INSTALL A NEW 250A-3P CIRCUIT BREAKER ON EXISTING SPACE TO FEED NEW MCC-WH IN THE WELL HOUSE BUILDING. PROVIDE AN ENGRAVED NAMEPLATE ON THE DOOR FOR THE NEW CIRCUIT BREAKER.

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CONTRACT: #CD6915B20		
EXISTING MCC 7-2 MODIFICATIONS		
E-05	NO 48 OF 62	

PATH: I:\00 RK&K\COMPS\GLOID\PROJECTS\2021\2170_WSSCP\INSTRUTASK2 - WB POTABLE WATER SYSTEM DESIGN\06 CELE - 1A CELECTROCALE OF LIGHTING PLAND\WGE-07\chad Brodbeck



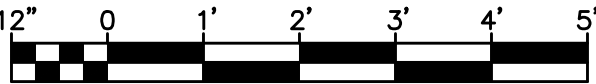
PLAN NOTES

- 1. DUPLEX RECEPTACLE. MOUNT AT 48" A.F.F. (TYP. FOR 3).
- 2. WIRE EMERGENCY LIGHTING FIXTURE TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCH.

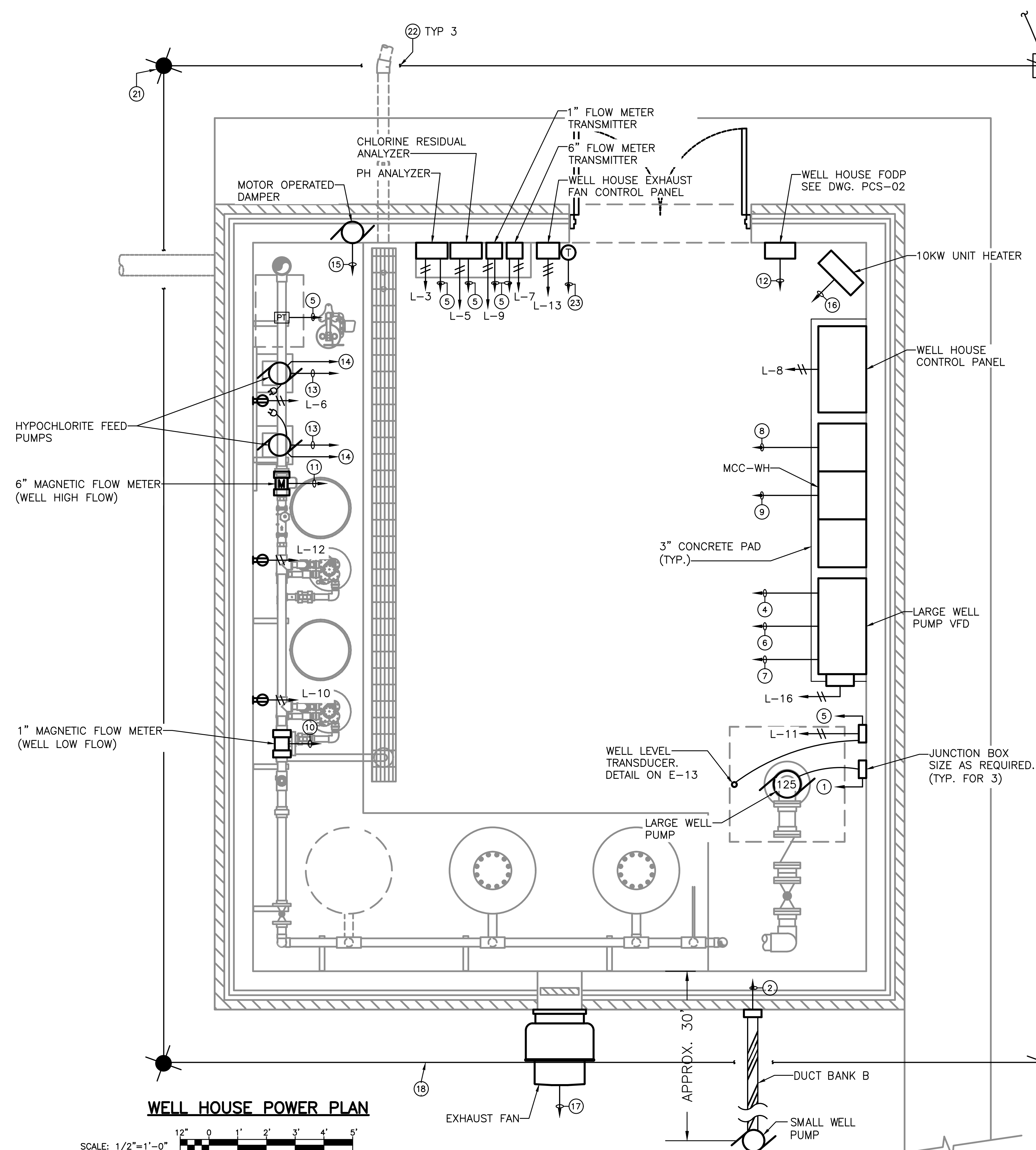
LIGHTING FIXTURE SCHEDULE							
TYPE	CERTS	LAMPS				MOUNTING	REMARKS
		LUMENS	TYPE	COLOR TEMP.	VOLTS		
SA	WET	6000	48" LEDS	40K	120	SUSPENDED	SUSPEND MOUNTED 1'X4'
EA	WET	600	LED	NA	120	CEILING	COMBINATION EXIT/EMERGENCY FIXTURE
WA	WET	8500	LED	40K	120	WALL MOUNT	OUTDOORWALLPACK

WELL HOUSE LIGHTING AND RECEPTACLE PLAN

SCALE: 1/2"=1'-0"



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CONTRACT: #CD6915B20				
WELL HOUSE LIGHTING AND RECEPTACLE PLAN		E-07	NO	50
			OF	62



WIRING LEGEND

- ① 3#3/0, #4 GRD.-2°C TO LARGE WELL PUMP VFD
- ② 3#12, #12 GRD.-3/4°C TO MCC-WH
- ③ NOT USED
- ④ 3#250, #4 GRD.-2°C TO MCC-WH
- ⑤ (1) PR. #18 SHLD.-3/4°C TO WELL HOUSE CONTROL PANEL
- ⑥ 12#14-1°C TO WELL HOUSE CONTROL PANEL
- ⑦ (2) PR. #18 SHLD.-3/4°C TO WELL HOUSE CONTROL PANEL
- ⑧ 16#14-1°C TO WELL HOUSE CONTROL PANEL
- ⑨ (3) 1 PR. #18 SHLD.-3/4°C TO WELL HOUSE CONTROL PANEL
- ⑩ MFG. SUPPLIED CABLE IN (2) 3/4°C TO RESPECTIVE TRANSMITTER
- ⑪ MFG. SUPPLIED CABLE IN (2) 3/4°C TO RESPECTIVE TRANSMITTER
- ⑫ 6-STRAND FIBER OPTIC CABLE TO WELL HOUSE CONTROL PANEL
- ⑬ (2) PR. #18 SHLD.-3/4°C TO WELL HOUSE CONTROL PANEL
- ⑭ 4#14-3/4°C TO WELL HOUSE CONTROL PANEL
- ⑮ 2#12, #12 GRD.-3/4°C TO WELL HOUSE EXHAUST FAN CONTROL PANEL
- ⑯ 3#12, #12 GRD.-3/4°C TO MCC-WH
- ⑰ 2#12, #12 GRD.-3/4°C TO WELL HOUSE EXHAUST FAN CONTROL PANEL
- ⑱ BARE COPPER GROUNDING CONDUCTOR, DIRECT BURIED 30" UG.
- ⑲ GROUNDING TEST WELL. REFER TO DRAWING E-02 FOR DETAILS.
- ⑳ #2 BARE COPPER GROUNDING CONDUCTOR TO MCC-WH
- ㉑ GROUND ROD
- ㉒ PLACE GROUND WIRE IN PVC CONDUIT WHERE GROUND WIRE CROSSES PIPING TO PREVENT CONTACT.
- ㉓ 2#14 TO WELL HOUSE EXHAUST FAN CONTROL PANEL

WELL HOUSE POWER PLAN

SCALE: 1/2"=1'-0"

WASHINGTON SUBURBAN SANITARY COMMISSION



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SUITE 500
BALTIMORE, MD 21201
(F) 410 728-2900
(F) 410 728-2834**


WESTERN BRANCH WRRF
POTABLE WATER SYSTEM UPGRADES

DESIGN:	DLCF	12/19/2025
DRAWN:	CMB	12/19/2025
CHECKED:	KRG	12/19/2025

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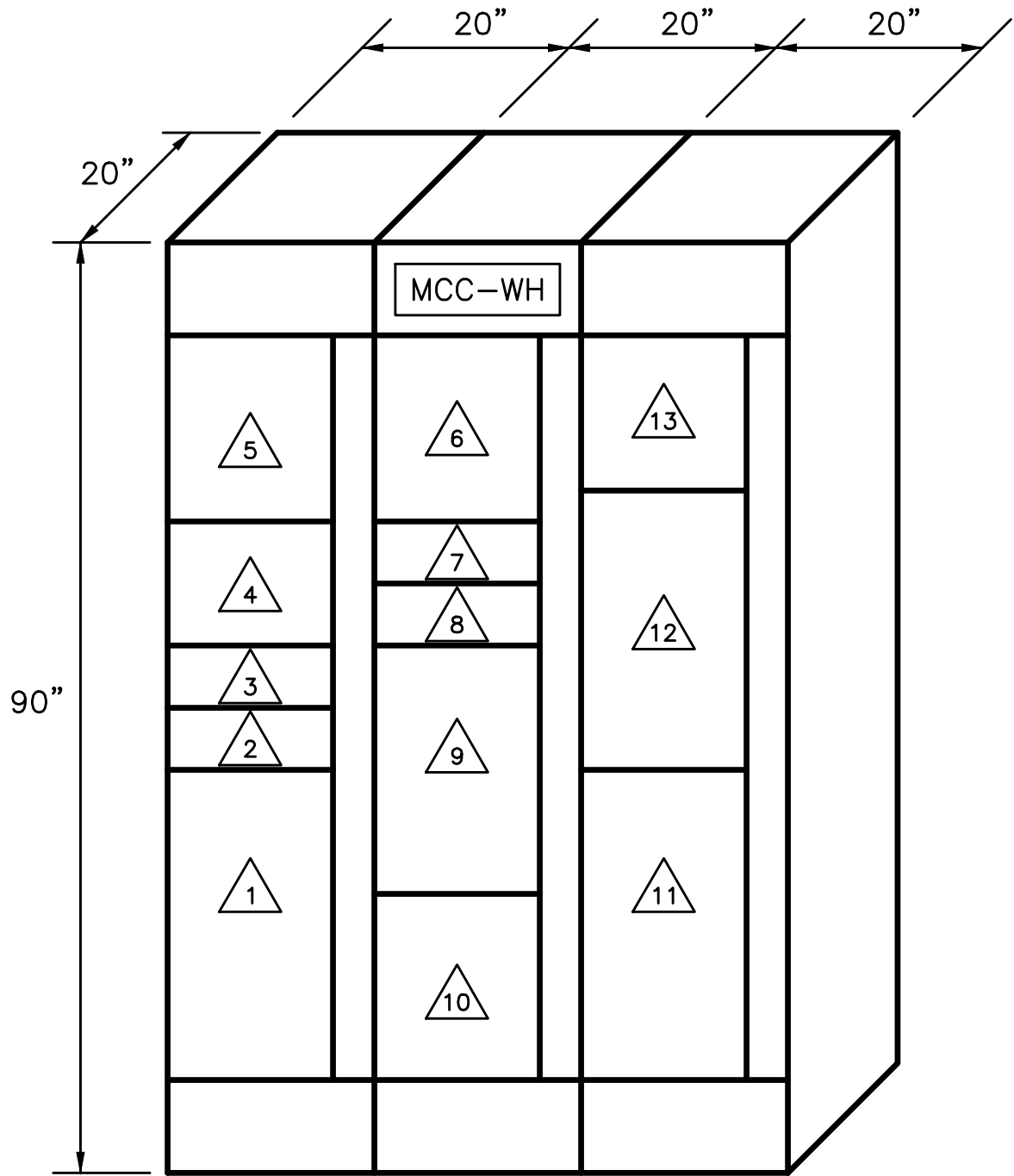
01/09/2026

	DATE	REVISIONS
continue		
CONTRACT: #CD6915B20		

WELL HOUSE POWER PLAN

E-08

NO	51
OF	62



MCC-WH ELEVATION
NO SCALE

UNIT LOCATION	DESCRIPTION
	250A MAIN BREAKER
	POWER MONITOR
	SURGE PROTECTIVE DEVICE
	SPACE
	SMALL WELL PUMP
	SPACE
	UNIT HEATER UH-1
	20A-3P SPARE
	LARGE WELL PUMP VFD

UNIT LOCATION	DESCRIPTION
	SPACE
	PANEL "L" TRANSFORMER WITH CIRCUIT BREAKER
	PANEL BOARD "L"
	SPACE

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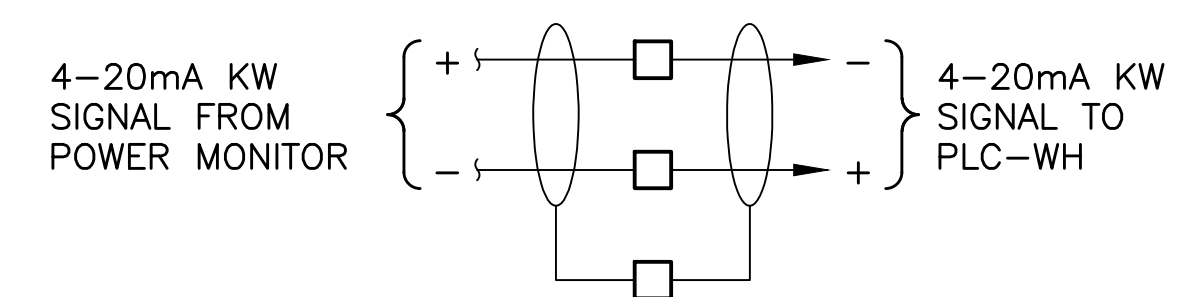
700 EAST PRATT STREET
SUITE 600
BALTIMORE, MD 21201
(P) 410 728-2900
(F) 410 728-2854

WESTERN BRANCH WRRF
POTABLE WATER SYSTEM UPGRADES

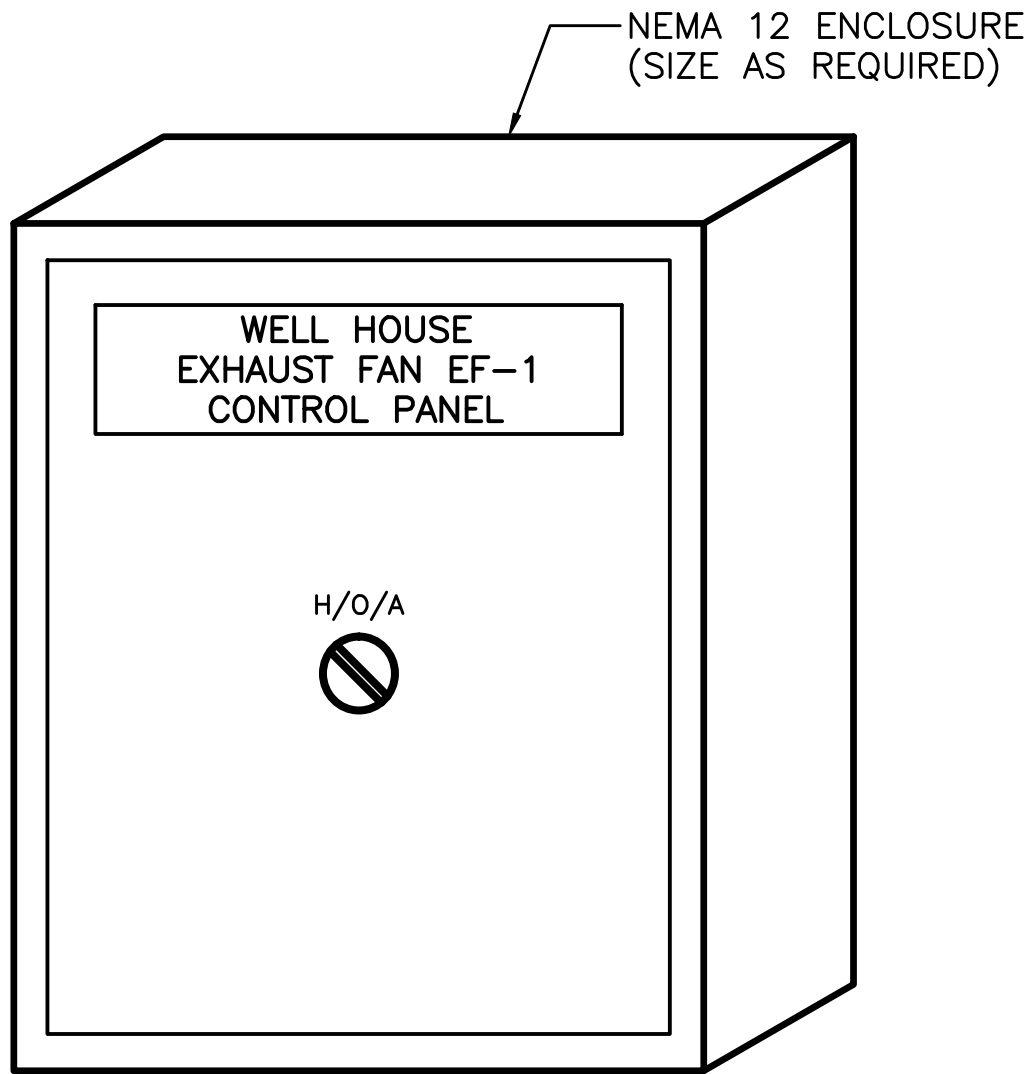
MCC-WH ELEVATION
AND SCHEDULE

E-09

NO	52
OF	62

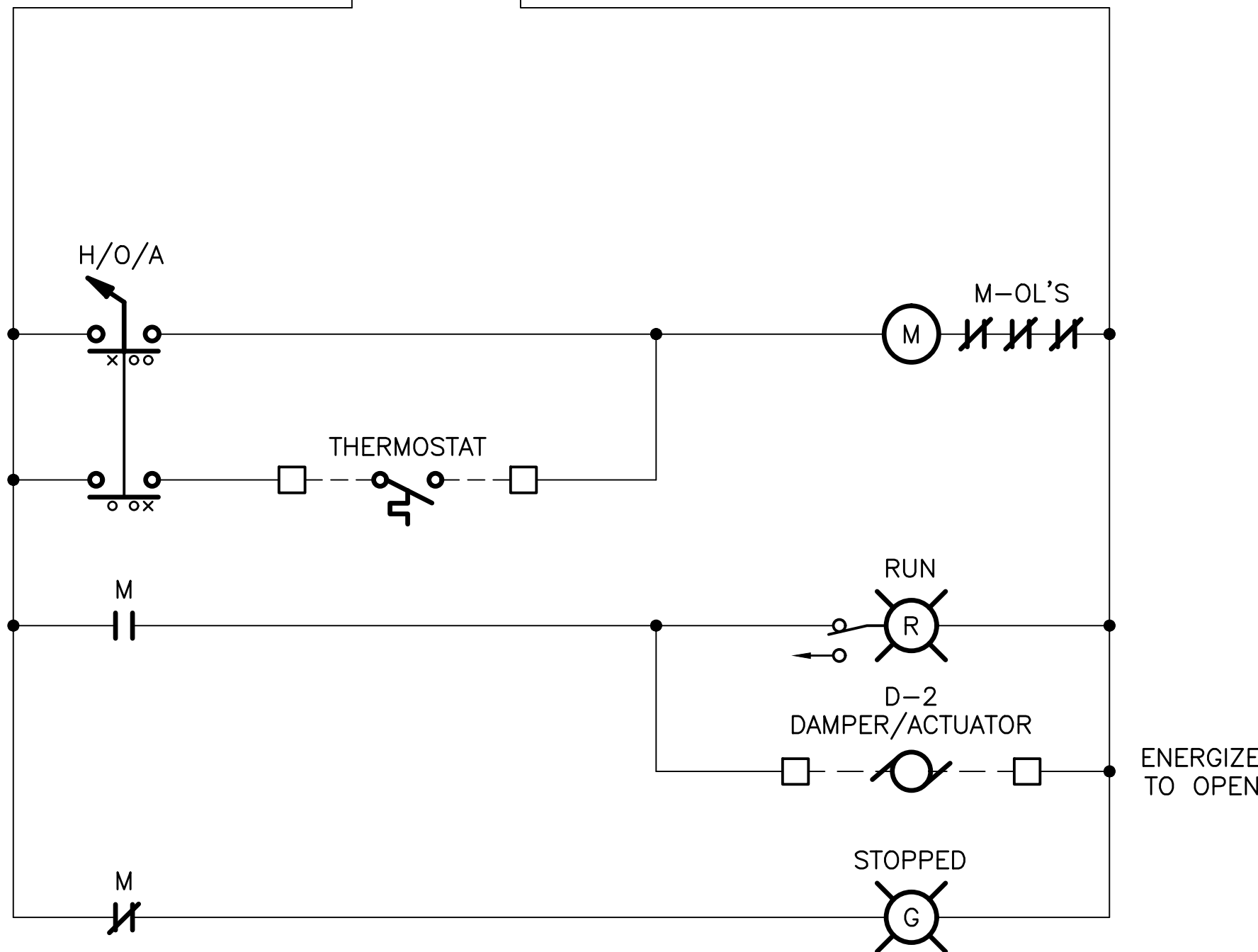
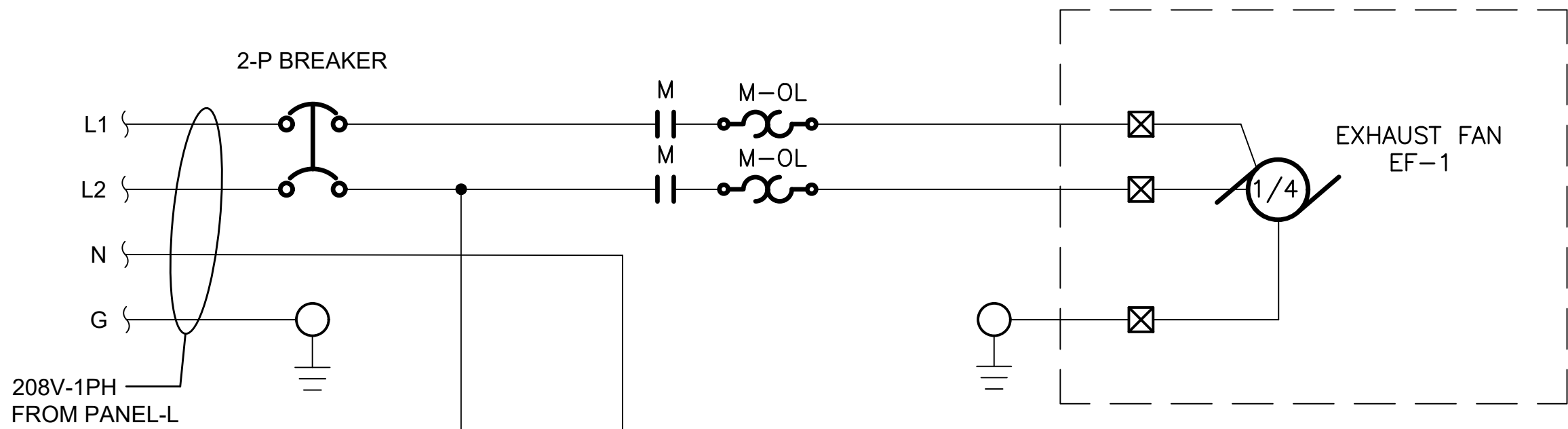


PATH: I:\0 RK&K\COMF\GOLD\PROJECTS\2021\2170_WSSC\PISTRUTASK2 - WB POTABLE WATER SYSTEM DESIGN\06 CELE. 1A ELECTRICAL\1 MCC WH WIRING\DWG-E-11\CD Plot Book

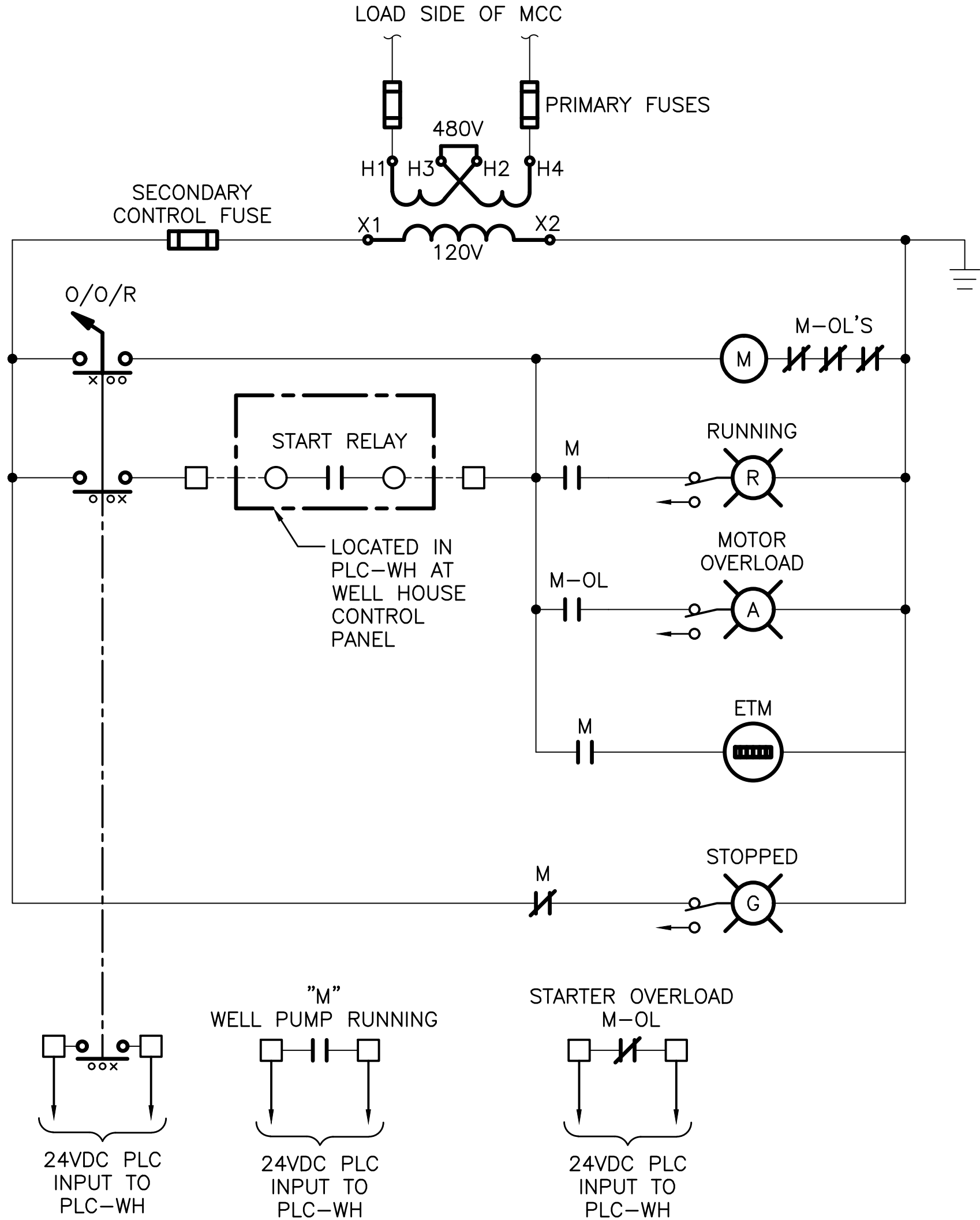


NOTES

1. CONTROL PANEL MAIN NAMEPLATE SHALL BE ENGRAVED WITH 1/2" HIGH LETTERS.



EXHAUST FAN EF-1
CONTROL WIRING DIAGRAM

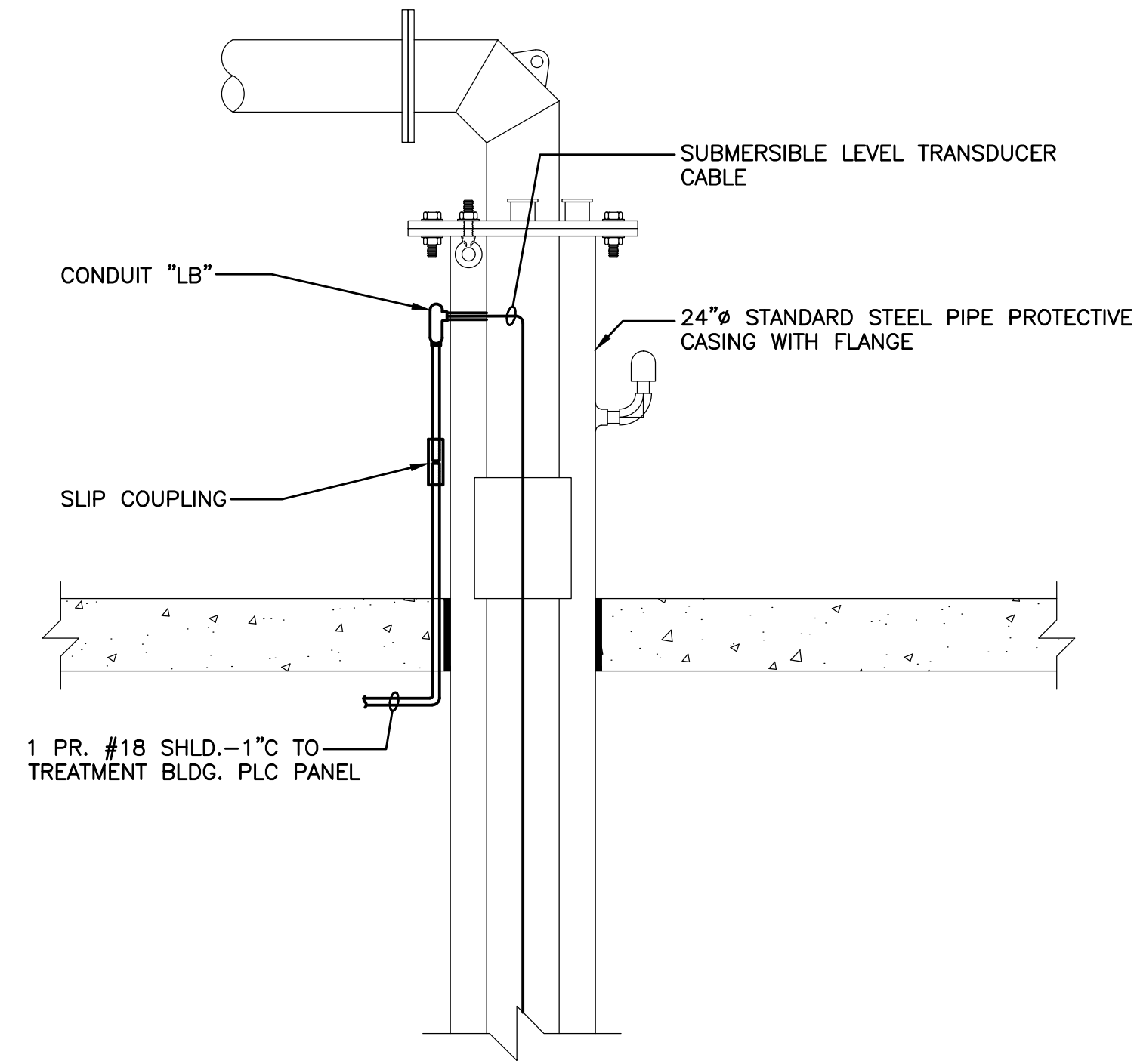


SMALL WELL PUMP
CONTROL WIRING DIAGRAM

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CONTRACT: #CD6915B20			

PANEL DESIGNATION "L"		TYPE: NUMBER OF POLES: MAIN BUS RATING: MAIN RATING:	INDUSTRIAL 18 100 Amp 50 Amp			LOCATION: VOLTAGE: PANEL MOUNTING: PANEL ENCLOSURE PANEL MIN. A.I.C.			MCC-WH 208Y/120V, 3Ø , 4W INSIDE MCC NEMA 1 14,000		
CIR. NO.	CIR. BKR.	DESCRIPTION	LOAD — KVA			LOAD — KVA			DESCRIPTION	CFR. BKR.	CIR. No.
			AØ	BØ	CØ						
1	20/1	LIGHTS	0.68			0.6			RECEPTACLES	20/1	2
3	20/1	Ph ANALYZER		0.24			0.2		RECEPTACLES	20/1	4
5	20/1	CHLORINE ANALYZER			0.24			0.48	SODIUM HYPOCHLORITE FEED PUMPS RECEPTACLE	20/1	6
7	20/1	6" HIGH FLOW TRANSMITTER	0.24			1.2			WELL HOUSE CONTROL PANEL	20/1	8
9	20/1	1" LOW FLOW METER		0.24			0.3		WATER SOFTNER 1	20/1	10
11	20/1	POTABLE WATER PRESSURE TRANSMITTER			0.24			0.3	WATER SOFTNER 2	20/1	12
13	20/2	WELL HOUSE EX. FAN CONTROL PANEL	0.2			0.1			EXTERIOR LIGHTING	20/1	14
15				0.2			1.5		AC UNIT	20/2	16
17	20/1	SPARE						1.5			18
TOTAL			1.115	0.68	0.48	1.9	2	2.28	TOTAL		
PANEL CONNECTED LOAD											
AØ 3.015						X SOLID NEUTROL BUS					
BØ 2.68						X EQUIPMENT GROUND BUS					
CØ 2.76											
8.455 TOTAL						DEMAND LOAD: 4.3					



LARGE WELLHEAD ELECTRICAL DETAIL
NO SCALE

DESIGN:	DLCF	12/19/2025
DRAWN:	CMB	12/19/2025
CHECKED:	KRG	12/19/2025

PROFESSIONAL CERTIFICATION		DATE	REVISIONS	
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. 01/09/2026				
CONTRACT: #CD6915B20				
PANEL SCHEDULE		E-13		NO 56
				OF 62