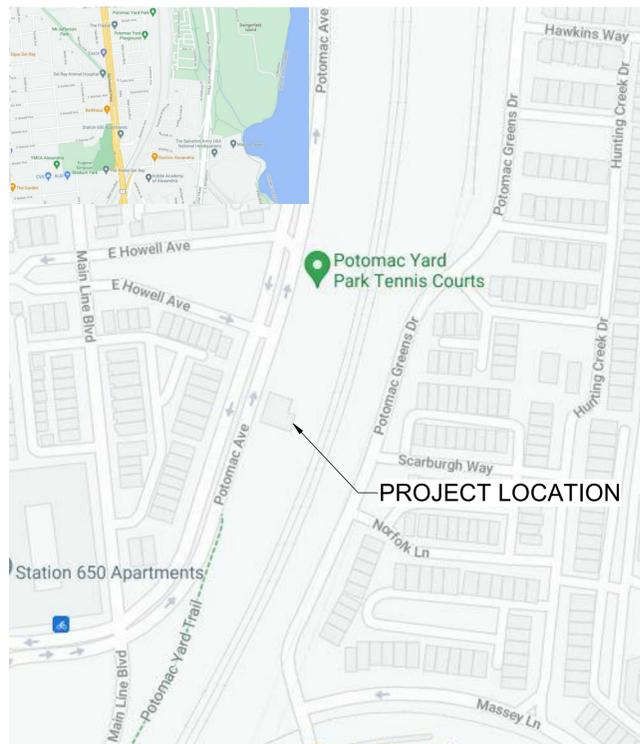




POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

DRAWINGS BID SET
CONTRACT NO. 21-023
SEPTEMBER 2021

DWG NO.	TITLE
G-1	COVER SHEET, LOCATION MAP AND DRAWING INDEX
G-2	SCREEN ROOM AND COMPACTOR ROOM DEMOLITION PLAN
G-3	SCREEN ROOM PLAN
G-4	COMPACTOR ROOM PLAN
G-5	SCREEN AND COMPACTOR ROOM SECTIONS 1
G-6	SCREEN AND COMPACTOR ROOM SECTIONS 2
G-7	DETAILS
E-1	ELECTRICAL LEGEND AND SYMBOLS 1
E-2	ELECTRICAL LEGEND AND SYMBOLS 2
E-3	POWER ONE-LINE DIAGRAM
E-4	MCC ELEVATION AND SCHEDULE
E-5	COMPACTOR ROOM POWER PLAN
I-1	INSTRUMENTATION LEGEND AND SYMBOLS 1
I-2	INSTRUMENTATION LEGEND AND SYMBOLS 2
I-3	SCREEN AND COMPACTOR ROOM P&ID

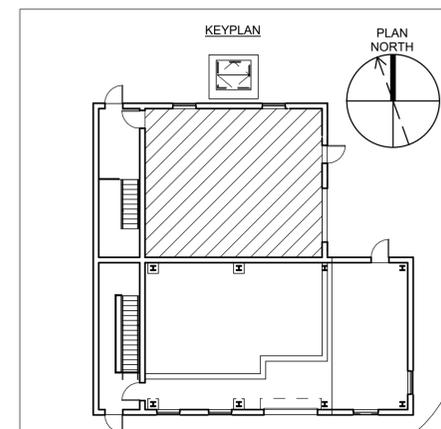


PROJECT ADDRESS:
1901 POTOMAC YARD TRAIL,
ALEXANDRIA, VIRGINIA 22301

VOLUME 1 OF 1



1725 Duke Street, suite 250
Alexandria, VA 22314



GENERAL NOTES:

1. SUPPORT DUCTWORK, DAMPERS AND PLENUMS TO REMAIN DURING DEMOLITION OF DUCTWORK AND FANS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF DUCT SUPPORTS.

KEYNOTES:

1. COORDINATE EXTENT OF DUCTWORK DEMOLITION WITH NEW EXHAUST FAN EF-07 TO BE FURNISHED AND INSTALLED.

LEGEND

1. SA=SUPPLY AIR
2. EA= EXHAUST AIR
3. # = DUCT DIA.



BIDDING DOCUMENTS



POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

REVISIONS

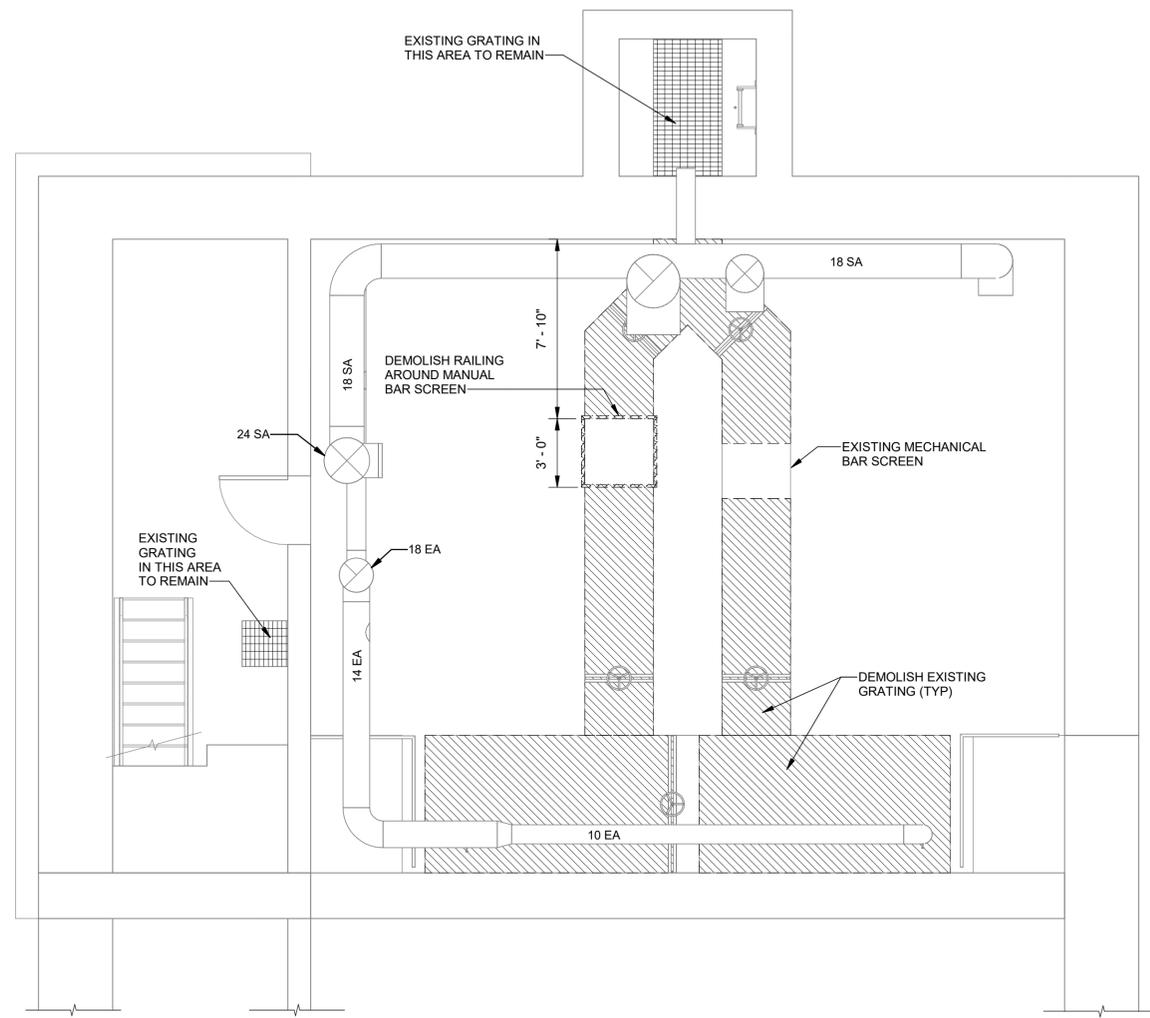
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 DESIGNED: C. ZUERNDORFER
 DRAWN: S. ZIMIC
 CHECKED: T. WHETHAM
 CHECKED:

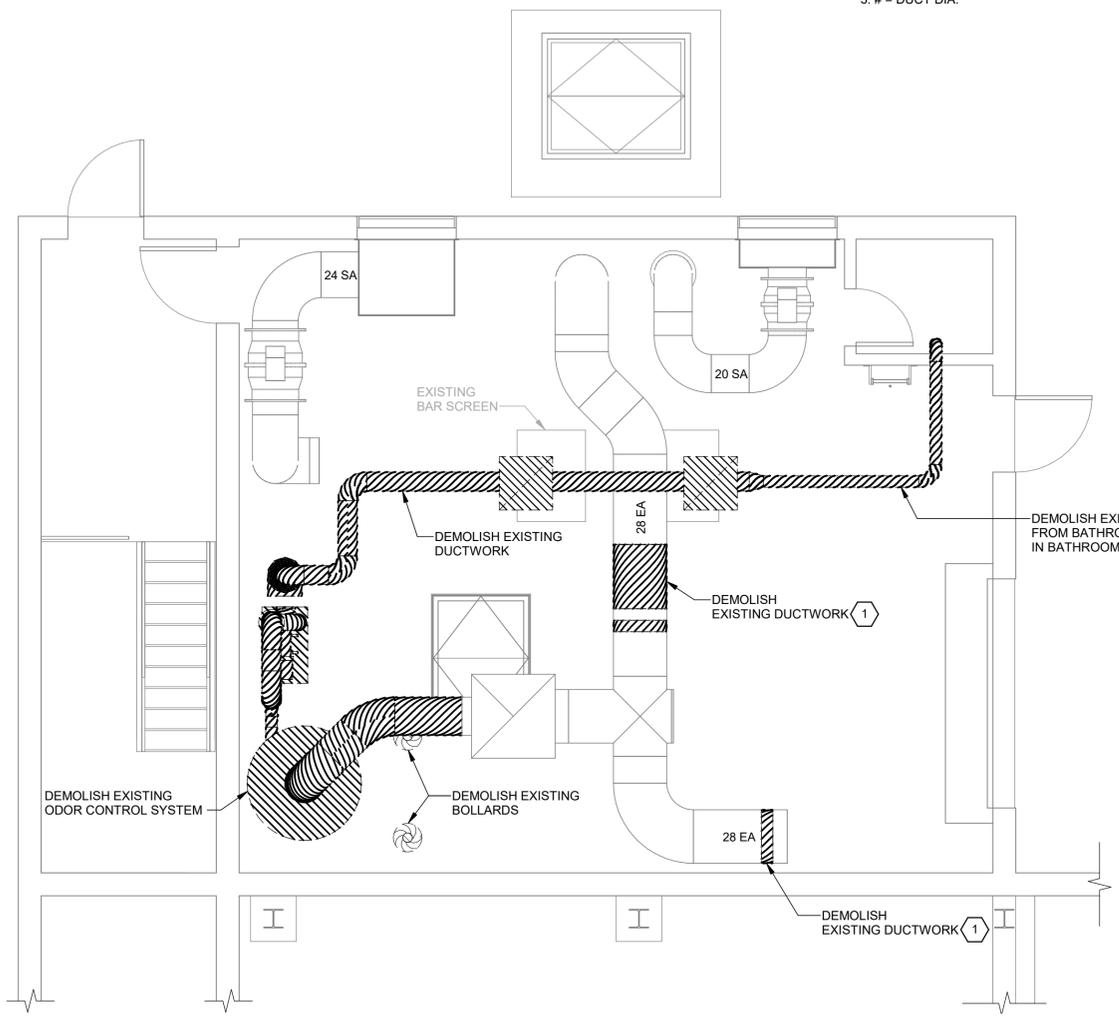
APPROVED: T. WHETHAM
 FILENAME
 BC PROJECT NUMBER 155776
 CLIENT PROJECT NUMBER XX
 PROCESS

SCREEN ROOM AND COMPACTOR ROOM DEMOLITION PLAN

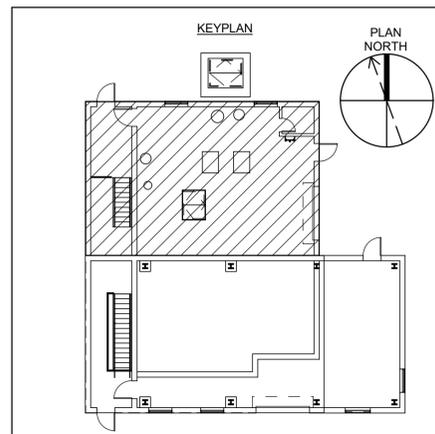
DRAWING NUMBER **G-2**
 SHEET NUMBER OF 2 OF 15



SCREEN ROOM DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

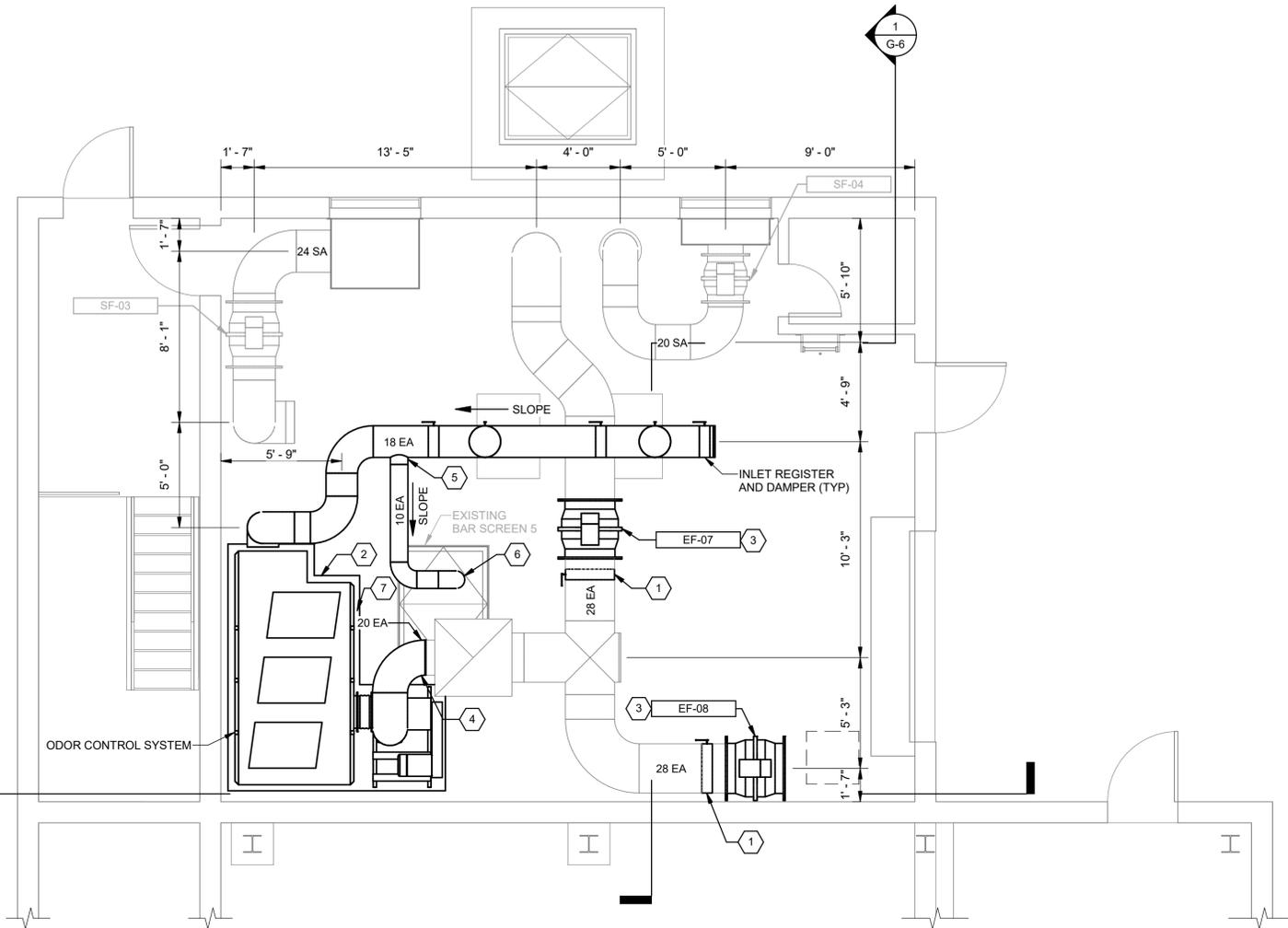


COMPACTOR ROOM DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"



Plot Date: 9/13/2021 9:04:59 AM Path: BIM 360://155776 - TO6 Potomac Yard PS Ven Odor Imps/155776-D-10/20.rvt

Plot Date: 9/13/2021 9:06:15 AM Path: BIM 360://155776 - T06 Potomac Yard PS Ven Odor Imps/155776-D-10V20.rvt



COMPACTOR ROOM PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

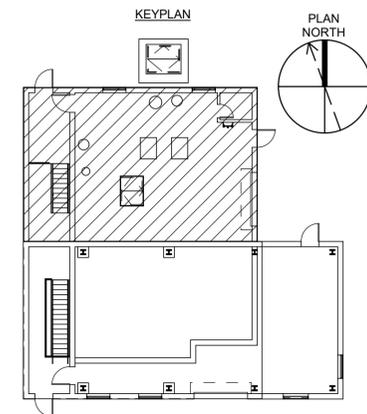
1. MATCH NEW DUCTWORK TO EXISTING FRP DUCTWORK.
2. SUPPORT DUCTWORK AND EQUIPMENT WITH STAINLESS STEEL THREADED RODS, SADDLES, AND NUTS, CONNECT TO CEILING STRUCTURE. PROVIDE SUPPORTS AT MINIMUM 8-FOOT SPACING.
3. PROVIDE FLEXIBLE DUCT CONNECTORS AND SPRING ISOLATORS FOR NEW FANS.
4. COORDINATE INSTALLATION OF NEW EQUIPMENT AND MATERIALS WITH EXISTING EQUIPMENT.
5. VERIFY ALL SITE CONDITIONS.
6. ALL DIMENSIONS ARE APPROXIMATE. VERIFY IN FIELD.
7. EF = EXHAUST FAN.
8. SLOPE NEW EXHAUST AIR DUCT 0.5% TOWARDS DIRECTION INDICATED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF DUCT SUPPORTS.
10. FOR ODOR CONTROL SYSTEM REQUIREMENTS, SEE SPECIFICATION SECTION 43 41 45.16.

KEYNOTES:

1. PROVIDE BALANCING DAMPER AND BACKDRAFT DAMPER.
2. PROVIDE 6" CONCRETE HOUSEKEEPING PAD FOR ODOR CONTROL SYSTEM. MINIMUM 4,000 PSI COMPRESSIVE STRENGTH CONCRETE MIX.
3. SUSPEND FAN FROM CEILING STRUCTURE WITH MIN. 5/8" STAINLESS STEEL (S.S.) THREADED RODS (4 PER FAN), 2"x2"x1/4" S.S. ANGLES (2 PER FAN), AND NUTS AND WASHERS.
4. CONNECT ODOR CONTROL SYSTEM EXHAUST TO EXISTING 20" DIA. DUCTWORK.
5. CONNECT 10" DUCT FROM MECHANICAL BAR SCREEN COVER PLATES TO 18" DUCT.
6. PROVIDE BALANCING DAMPER.
7. RUN 2" DRAIN LINE FROM CARBON SCRUBBER TO BAR SCREEN OPENING. VENDOR TO PROVIDE 2" DRAIN CONNECTION WITH ISOLATION BALL VALVE ON CARBON SCRUBBER.

LEGEND

- 1: SA=SUPPLY AIR
- 2: EA= EXHAUST AIR
- 3: # = DUCT DIA.



BIDDING DOCUMENTS



POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. ZUERNDORFER
DRAWN: S. ZIMIC
CHECKED: T. WHETHAM

CHECKED:

APPROVED: T. WHETHAM

FILENAME

BC PROJECT NUMBER

155776

CLIENT PROJECT NUMBER

XX

PROCESS

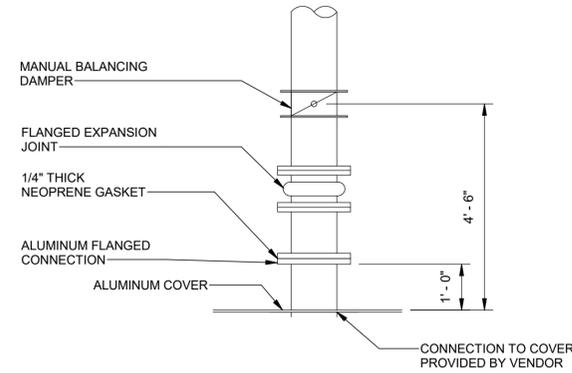
COMPACTOR ROOM PLAN

DRAWING NUMBER

G-4

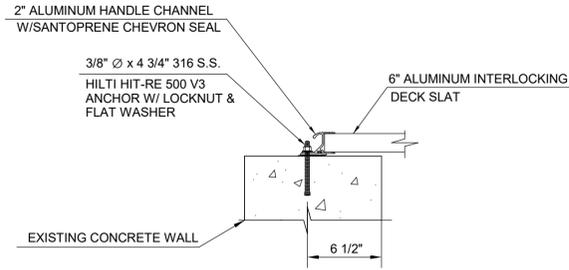
SHEET NUMBER OF

4 15



TYPICAL FA AIR PICK-UP ALUMINUM COVER

A DETAIL



TYPICAL ALUMINUM COVER SYSTEM ATTACHMENT DETAIL

B DETAIL

Plot Date: 8/25/2021 10:55:56 AM Path: BIM 360//155776 - T06 Potomac Yard PS Ven Odor Imps/155776-D-10V20.rvt

D

C

B

A



BIDDING DOCUMENTS



POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

REVISIONS

REV	DATE	DESCRIPTION

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DESIGNED: C. ZUERNDORFER

DRAWN: S. ZIMIC

CHECKED: T. WHETHAM

CHECKED:

APPROVED: T. WHETHAM

FILENAME

BC PROJECT NUMBER

155776

CLIENT PROJECT NUMBER

XX

DETAILS

DRAWING NUMBER

G-7

7 SHEET NUMBER OF 15

D

C

B

A

Path: C:\BCP\MD1807888 FILENAME: E-2.DWG PLOT DATE: 8/25/2021 10:28 AM CAD USER: JESSE ANIBAS

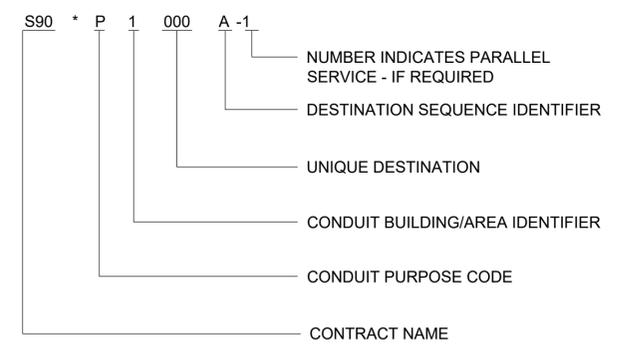
ELECTRICAL SYMBOLS

- RELAY CONTACT, NO
- RELAY CONTACT, NC
- THERMAL OVERLOAD CONTACT, NC
- MOTOR COIL RELAY
- TIMER OR TIME DELAY RELAY
- CONTROL RELAY
- PUSHBUTTON, SINGLE CIRCUIT, NO
- PUSHBUTTON, SINGLE CIRCUIT, NC
- PUSHBUTTON, DOUBLE CIRCUIT
- PUSHBUTTON, MAINTAINED CONTACT
- RELAY CONTACT, NC, TIME DELAY AFTER COIL ENERGIZED
- RELAY CONTACT, NO, TIME DELAY AFTER COIL ENERGIZED
- RELAY CONTACT, NC, TIME DELAY AFTER COIL DE-ENERGIZED
- RELAY CONTACT, NO, TIME DELAY AFTER COIL DE-ENERGIZED
- PRESSURE SWITCH, NC
- PRESSURE SWITCH, NO
- TEMPERATURE SWITCH, NC
- TEMPERATURE SWITCH, NO
- FLOW SWITCH, NC
- FLOW SWITCH, NO
- FLOAT SWITCH, NC
- FLOAT SWITCH, NO
- LIMIT SWITCH, NC
- LIMIT SWITCH, NO
- SOLENOID

ELECTRICAL SYMBOLS

- SWITCH - 3 POSITION SELECTOR
- SWITCH - 2 POSITION SELECTOR
- THERMAL OVERLOAD
- INPUT TO COMPUTER, CONTROLLER, ETC.
- OUTPUT FROM COMPUTER, CONTROLLER, ETC. XXX INDICATES TYPE: ON/OFF=DISCRETE OR TWO STATE 4/20=ANALOG, 4-20MA
- PUSH-TO-TEST INDICATOR LIGHT
- 4 WAY HIGH VOLTAGE SPLICE BOX (15KV)
- SPACE HEATER
- NON-FUSED DISCONNECT SWITCH RATING AS NOTED
- DELTA CONNECTED WINDING
- WYE CONNECTED WINDING, SOLIDLY GROUNDED
- LIGHTING ARRESTOR
- CIRCUIT POWER TRANSFORMER 480V PRIMARY, 120V SECONDARY
- CIRCUIT BREAKER
- FUSE
- GROUND
- SPECIAL PURPOSE RECEPTACLE
120 = VOLT RATING
3 = NUMBER OF POLES
60 = AMPERE RATING
4W = 4 WIRES IN ADDITION TO GROUND
- ANALOG CABLE SHIELDED GROUND

CONDUIT NAMING CONVENTION



CONDUIT PURPOSE CODES

- M MEDIUM VOLTAGE POWER
- P 480V POWER
- L POWER (120VAC/125VDC)
- C CONTROL (120V)
- S STATUS
- A INSTRUMENTATION (4-20mA)
- H LOW VOLTAGE CONTROL (24V)
- K COMMUNICATIONS (PLC, LAN TELEPHONE)

CONDUIT LOCATION CODES

- 6 - DIGESTER AREA
- 7 - THICKENING FACILITIES

CONDUIT NOTE:
CODES MAY BE COMBINED WHERE CONDUITS CONTAIN WIRES FROM MULTIPLE CLASSIFICATIONS SUCH AS "PC" FOR 480V POWER AND 120V CONTROL IN THE SAME CONDUIT.



BIDDING DOCUMENTS



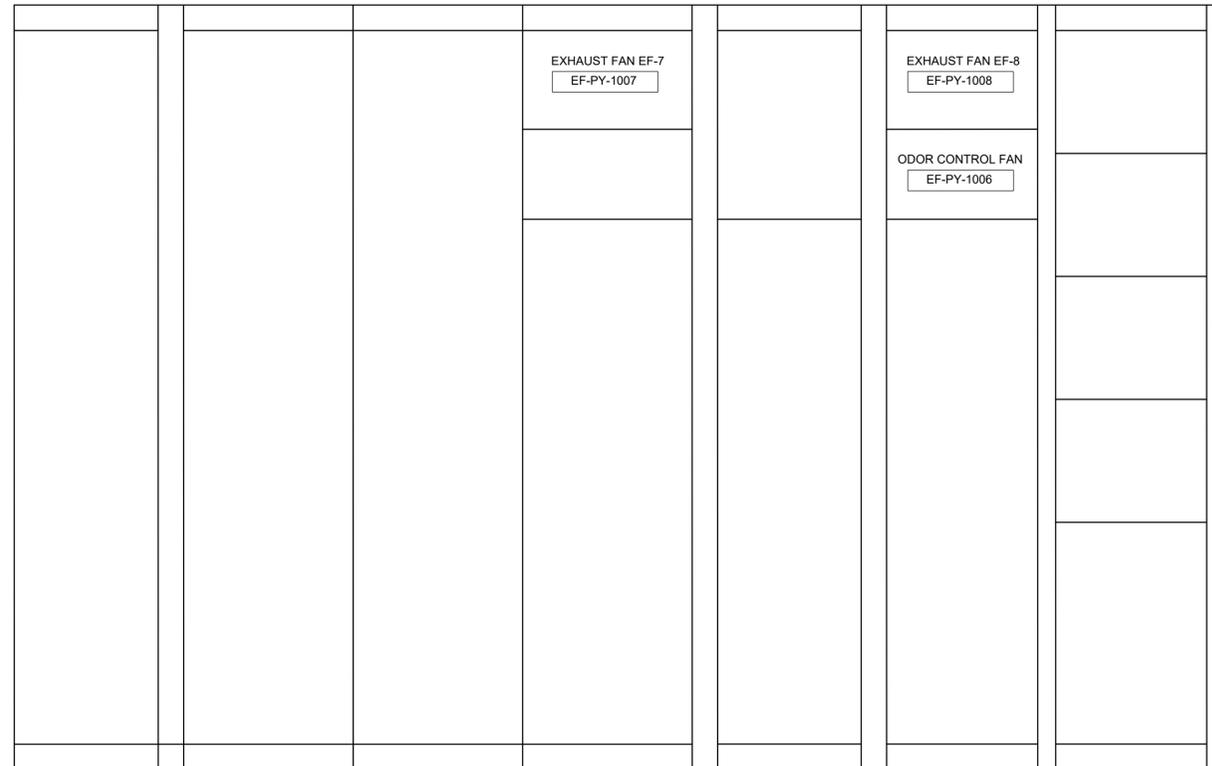
POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

REVISIONS

REV	DATE	DESCRIPTION

DESIGNED: B. OTANI
 DRAWN: J. OHM
 CHECKED: T. WHETHAM
 APPROVED: T. WHETHAM
 FILENAME: E-2.dwg
 BC PROJECT NUMBER: 155776
 CLIENT PROJECT NUMBER:

ELECTRICAL LEGEND AND SYMBOLS 2



- MCC NOTES:**
1. PROVIDE HOA SWITCH FOR EACH EXHAUST FAN. FOR EACH FAN, AN ON/OFF SWITCH SHALL BE MOUNTED AT THE PRIMARY ENTRANCE TO THE SPACE SERVED. THE ON/OFF SWITCHES SHALL BE CONNECTED TO THE AUTO (A) CIRCUIT OF THE HOA SWITCHES.
 2. EF-1 SHALL BE INTERLOCKED WITH EF-2 WHEN GENERATOR IS NOT RUNNING. EF-1 SHALL STOP EF-2 SHALL RUN WHEN GENERATOR IS RUNNING.
 3. EF-6 SHALL BE INTERLOCKED WITH EF-4.
 4. ELECTRICAL EQUIPMENTS IN COMPACTOR ROOM & SCREEN ROOM SHALL BE EXPLOSION PROOF.
 5. CONNECT FAN HOUSING GROUNDING STRAP OR LUG TO CIRCUIT GROUND TO DISIPATE STATIC ELECTRICITY.
 6. EF-7 AND EF-8 SHALL RUN CONTINUOUSLY IN HAND MODE AND HAVE THE OPTION OF RUNNING IN AUTO MODE FROM A REMOTE CONTACT. A CONTACT OFF THE RESPECTIVE MOTOR COIL SHALL BE PROVIDED FOR A RUN SIGNAL TO THE PLC. CONTROL SCHEMATIC SHALL HAVE THE ABILITY TO RUN THE FANS IN THE FUTURE WHEN IN AUTO MODE.
 7. PROVIDE NEW MOTOR STARTER AND OTHER DEVICES FOR ODOR CONTROL FAN 6 TO BE BASED ON A 20 HP MOTOR. CONTROL SCHEMATIC SHALL BE AS THE EXISTING SCHEMATIC.



BIDDING DOCUMENTS



POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

REVISIONS

REV	DATE	DESCRIPTION

MCC-PY ELEVATION
SCALE: NTS

MCC MCC-PY		POWER SYSTEM DATA		SPECIAL FEATURES / NOTES:																
NEMA WIRING CLASS: TYPE:		480 VOLTS 3 PHASE 4 WIRE 60 HERTZ AVAILABLE FAULT CURRENT: 30KA																		
ENCLOSURE DATA: NEMA ENCLOSURE TYPE: NEMA 1 DEEP FINISH: STANDARD #49 MED LIGHT GREY ELECTRO-DEPOSITION		POWER ENTERS SECTION TOP BOTTOM CABLE SIZE PER PHASE																		
		CONTROL POWER: 120 VOLTS 60 HERTZ SUPPLIED BY:																		
		MAIN BUS AMPS: 800 BUSS:																		
		VERTICAL BUS: 600A																		
		25 x 2.0 TIN PLATED COPPER GROUND BUS W/LUGS FOR #4-250 MCM GROUND CABLE																		
		VERTICAL AND HORIZONTAL BUS BARRIERS																		
SECTION NO.	UNIT DESCRIPTION	MOTOR DATA			STARTER DATA		OVERCURRENT PROTECTION DATA				STARTER MODIFICATIONS				KVA LOAD	WIRE SIZE	REMARKS			
		VOLTS	PHASE	H.P.	TYPE	SIZE NEMA	AUX CONTACT	THERMAG C.B. FRAME	MAG C.B. CONT. RATING	TRIP RANGE	AUX CONTACT ON OL'S	START/STOP PB	HOA SW.	CPT				AUX RELAYS	INDICATING LIGHTS	
LINE IS 2 INCHES AT FULL SIZE																				
1A	MAIN BREAKER	480	3	-	-	-	800	600	-	-	-	-	-	-	-	-	-	-		
2A	TVSS [PY-TVSS]	480	3	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-		
2B	METERING	480	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2C	SEWAGE PUMP NO. 1 [P77-4001]	480	3	50	VFD	-	-	90	-	-	-	-	-	-	-	-	1	54	(3)#2, (1)#6 GRD IN 1-1/2°C	
3A	EXHAUST FAN EF-1 [EF-PY-1001]	480	3	2	FVNR	-	-	20	-	-	-	-	-	-	-	-	1	1.7	(3)#12, (1)#12 GRD IN 3/4°C	
3B	EXHAUST FAN EF-2 [EF-PY-1002]	480	3	3	FVNR	-	-	20	-	-	-	-	-	-	-	-	1	4	(3)#12, (1)#12 GRD IN 3/4°C	
3C	SEWAGE PUMP NO. 2 [P77-4002]	480	3	50	VFD	-	-	90	-	-	-	-	-	-	-	-	1	54	(3)#2, (1)#6 GRD IN 1-1/2°C	
4A	EXHAUST FAN EF-3 [EF-PY-1003]	480	3	2	FVNR	-	-	20	-	-	-	-	-	-	-	-	1	2.8	(3)#12, (1)#12 GRD IN 3/4°C	
4B	EXHAUST FAN EF-4 [EF-PY-1004]	480	3	1	FVNR	-	-	20	-	-	-	-	-	-	-	-	1	1.7	(3)#12, (1)#12 GRD IN 3/4°C	
4C	SEWAGE PUMP NO. 3 [P77-4003]	480	3	50	VFD	-	-	90	-	-	-	-	-	-	-	-	1	54	(3)#2, (1)#6 GRD IN 1-1/2°C	
5A	PANEL DP1 FEED [PY-DP1]	480	3	-	-	-	-	400	-	-	-	-	-	-	-	-	-	-	213	(2) SETS (4)#250 KCML, (1)#2 GRD IN (2) 2-1/2°C
5B	TRANSFORMER FOR PANEL LRP1 [PY-LRP1]	480	3	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	19	(4)#6, (1)#8 GRD IN 1°C
5C	ODOR CONTROL FAN 6 [EF-PY-1006]	480	3	20	FVNR	-	-	60	-	-	-	-	-	-	-	-	1	22	(3)#10, (1)#10 GRD IN 3/4°C	
5D	EXHAUST FAN EF-7 [EF-PY-1007]	480	3	1.5	FVNR	-	-	1.5	-	-	-	-	-	-	-	-	1	2	(3)#12, (1)#12 GRD IN 3/4°C	
5E	EXHAUST FAN EF-8 [EF-PY-1008]	480	3	1	FVNR	-	-	1.5	-	-	-	-	-	-	-	-	1	1.7	(3)#12, (1)#12 GRD IN 3/4°C	
5F	EXHAUST FAN EF-8 [EF-PY-1008]	480	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(3)#12, (1)#12 GRD IN 3/4°C
TOTAL LOAD: X																				
DEMAND LOAD: X																				

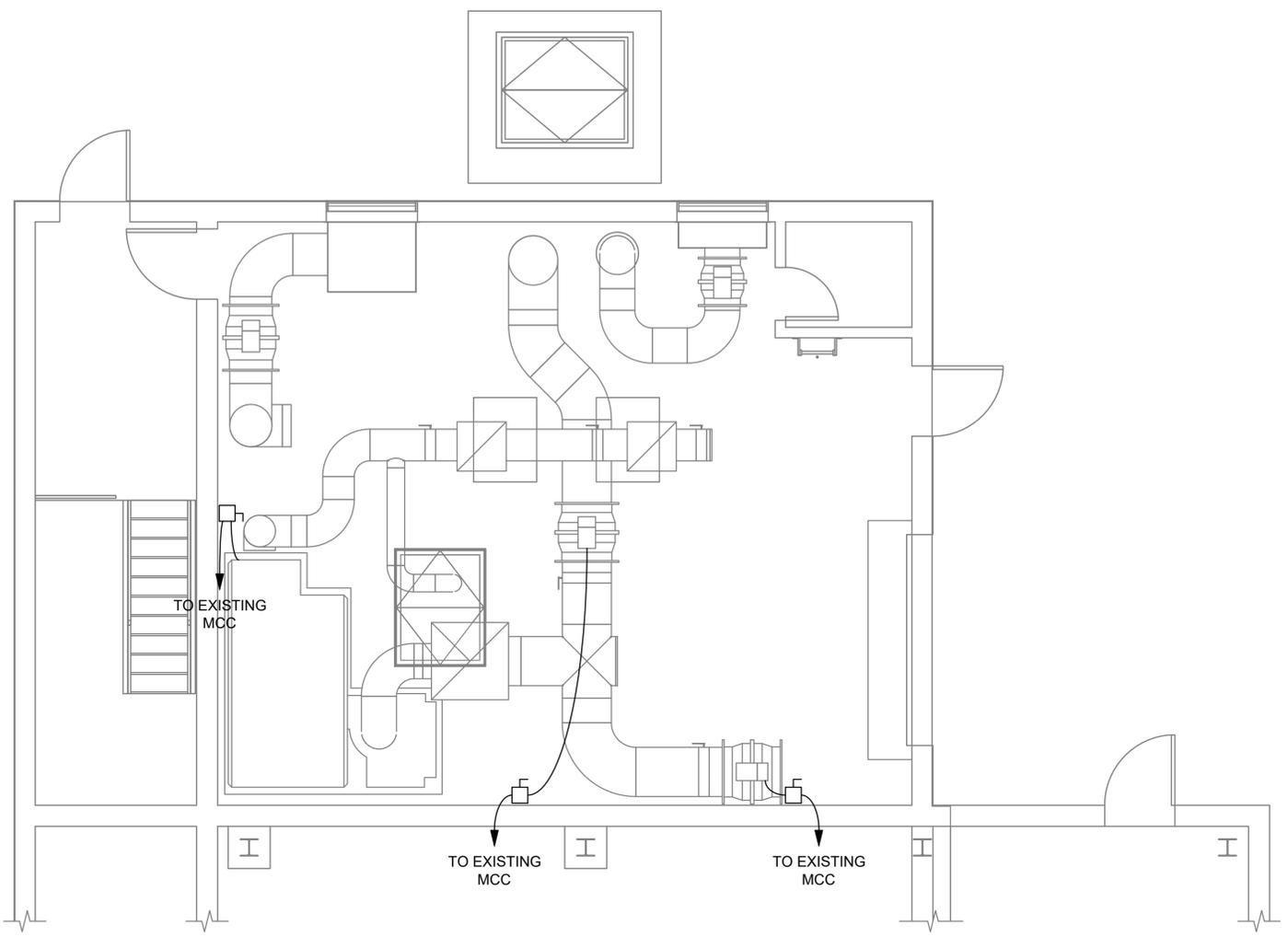
DESIGNED: B. OTANI
DRAWN: J. OHM
CHECKED: T. WHETHAM
APPROVED: T. WHETHAM

FILENAME: E-4.dwg
BC PROJECT NUMBER: 155776
CLIENT PROJECT NUMBER:

MCC ELEVATION SCHEDULE

DRAWING NUMBER: **E-4**
SHEET NUMBER OF: 11 OF 15

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COMPACTOR ROOM PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR SHALL FOLLOW ALL APPLICABLE FEDERAL, STATE, AND LOCAL ELECTRICAL CODES. SEE E-1 FOR ROOM CLASSIFICATIONS.
2. CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH THE OWNER.
3. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT EQUIPMENT DURING DEMOLITION AND CONSTRUCTION WORK.
4. ODOR CONTROL AND EXHAUST FAN DISCONNECTS SHALL BE LOCATED IN PLAIN SIGHT OF THE CONNECTED EQUIPMENT.
5. COORDINATE INSTALLATION OF NEW EQUIPMENT AND MATERIALS WITH EXISTING EQUIPMENT.
6. VERIFY ALL SITE CONDITIONS.
7. ALL DIMENSIONS ARE APPROXIMATE. VERIFY IN FIELD.
8. EF = EXHAUST FAN.



BIDDING DOCUMENTS



POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: B. OTANI
DRAWN: J. OHM
CHECKED: T. WHETHAM
CHECKED:
APPROVED: T. WHETHAM

FILENAME: E-5.dwg
BC PROJECT NUMBER: 155776
CLIENT PROJECT NUMBER:

COMPACTOR ROOM POWER PLAN

DRAWING NUMBER: **E-5**
SHEET NUMBER OF: **12** OF **15**

Path: C:\BCP\MD1807888 FILENAME: E-5.DWG PLOT DATE: 8/25/2021 10:38 AM CAD USER: JESSE ANIBAS

PRIMARY ELEMENT SYMBOLS

- LEVEL ELEMENT (BUBBLER TUBE TYPE)
- LEVEL ELEMENT (CONDUCTANCE TYPE)
- LEVEL ELEMENT (CAPACITANCE TYPE)
- LEVEL ELEMENT (RADAR TYPE)
- LEVEL ELEMENT (ULTRASONIC TYPE)
- ORIFICE PLATE
- PROPELLER OR TURBINE FLOW METER
- VORTEX FLOW METER
- TARGET FLOW METER
- PILOT TUBE
- THERMAL MASS FLOW METER
- MAGNETIC FLOW METER
- DOPPLER TYPE ULTRASONIC FLOW METER
- DENSITY METER
- IN-LINE TYPE PRESSURE SENSOR ASSEMBLY WITH GAGE (PI) AND/OR SWITCH (PS) AS SHOWN
- FLOW INDICATOR (ROTAMETER)

PRIMARY ELEMENT SYMBOLS

- FLOW ELEMENT (VENTURI TYPE)
- FLOW ELEMENT (FLUME TYPE)
- FLOW ELEMENT (ANNUBAR TYPE)
- UNCLASSIFIED FLOW ELEMENT SWITCH

ACTUATOR ACCESSORIES

- CONTROL UNIT INTEGRAL WITH GATE OR VALVE WITH BUILT-IN DEVICES. (XXX = DEVICE FUNCTION PER INSTRUMENT IDENTIFICATION TABLE)

INSTRUMENT AND FUNCTION SYMBOLS

- FIELD MOUNTED
 - MOTOR CONTROL CENTER MOUNTED
 - INTERIOR OF PANEL MOUNTED
 - FACE OF PANEL MOUNTED
 - INSTRUMENTS SHARING COMMON HOUSING
 - INTERLOCK LOGIC UNDEFINED OR AS NOTED
 - RESET
 - AND LOGIC
 - OR LOGIC
 - STROBE LIGHT
 - ALARM HORN
 - HUMAN-MACHINE INTERFACE (HMI) INDICATOR/CONTROLLER/RECORDER/ALARM POINT ACCESSIBLE VIA SHARED VIDEO DISPLAY
 - AS ABOVE BUT WITH LIMITED ACCESS (NOT NORMALLY ACCESSIBLE)
 - AS ABOVE, BUT WITH ACCESS VIA PANEL MOUNTED DEVICE AT AUXILIARY LOCATION (LOCAL BACKUP CONTROLLER OR MANUAL STATION)
 - CENTRAL MONITORING STATION OR REMOTE COMPUTER FUNCTION
 - DISTRIBUTED CONTROL OR PLC LOGIC FUNCTIONS AND LOCAL INPUT/OUTPUT PER INSTRUMENT IDENTIFICATION TABLE
- DI DIGITAL INPUT
DO DIGITAL OUTPUT
AI ANALOG INPUT
AO ANALOG OUTPUT

INSTRUMENT AND FUNCTION SYMBOLS

- INDICATING LIGHT UNIT
G GREEN (RUN;ON;START)
R RED (OFF;STOP)
W WHITE
A AMBER (ALARM CONDITION)
AF FLASHES ON ELECTRICAL MECHANICAL MALFUNCTION
 - GRAPHIC DISPLAY LIGHT ON PANEL XXX
 - PUSHBUTTONS; PROVIDE SEPARATE PUSHBUTTON FOR EACH DESIGNATED FUNCTION
ACK
 - HAND SELECTOR SWITCH; UNDERLINE DENOTES MOMENTARY (SPRING RETURN) CONTACTS (E.G. OSC)
- FUNCTION SUBSCRIPTS FOR PUSHBUTTON AND HAND SWITCH CONTROLS:
- ACK ACKNOWLEDGE
 - FOR FORWARD-OFF-REVERSE
 - HOA HAND-OFF-AUTO
 - LA LOCAL-AUTO
 - LOA LOCAL-OFF-AUTO
 - LOR LOCAL-OFF-REMOTE
 - LR LOCAL-REMOTE
 - MA MANUAL-AUTO
 - MOA MANUAL-OFF-AUTO
 - OA OFF-AUTO
 - OC OPEN-CLOSE
 - OCA OPEN-CLOSE-AUTO
 - OO ON-OFF, OFF-ON
 - OSC OPEN-STOP-CLOSE
 - OSCSA OPEN-STOP-CLOSE-STOP-AUTO
 - RO RUN-OFF
 - RS RESET
 - SS START-STOP
 - SSLO START-STOP WITH LOCKOUT
 - SIL SILENCE
 - T TEST



BIDDING DOCUMENTS



POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

REVISIONS

REV	DATE	DESCRIPTION

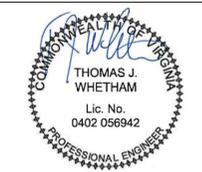
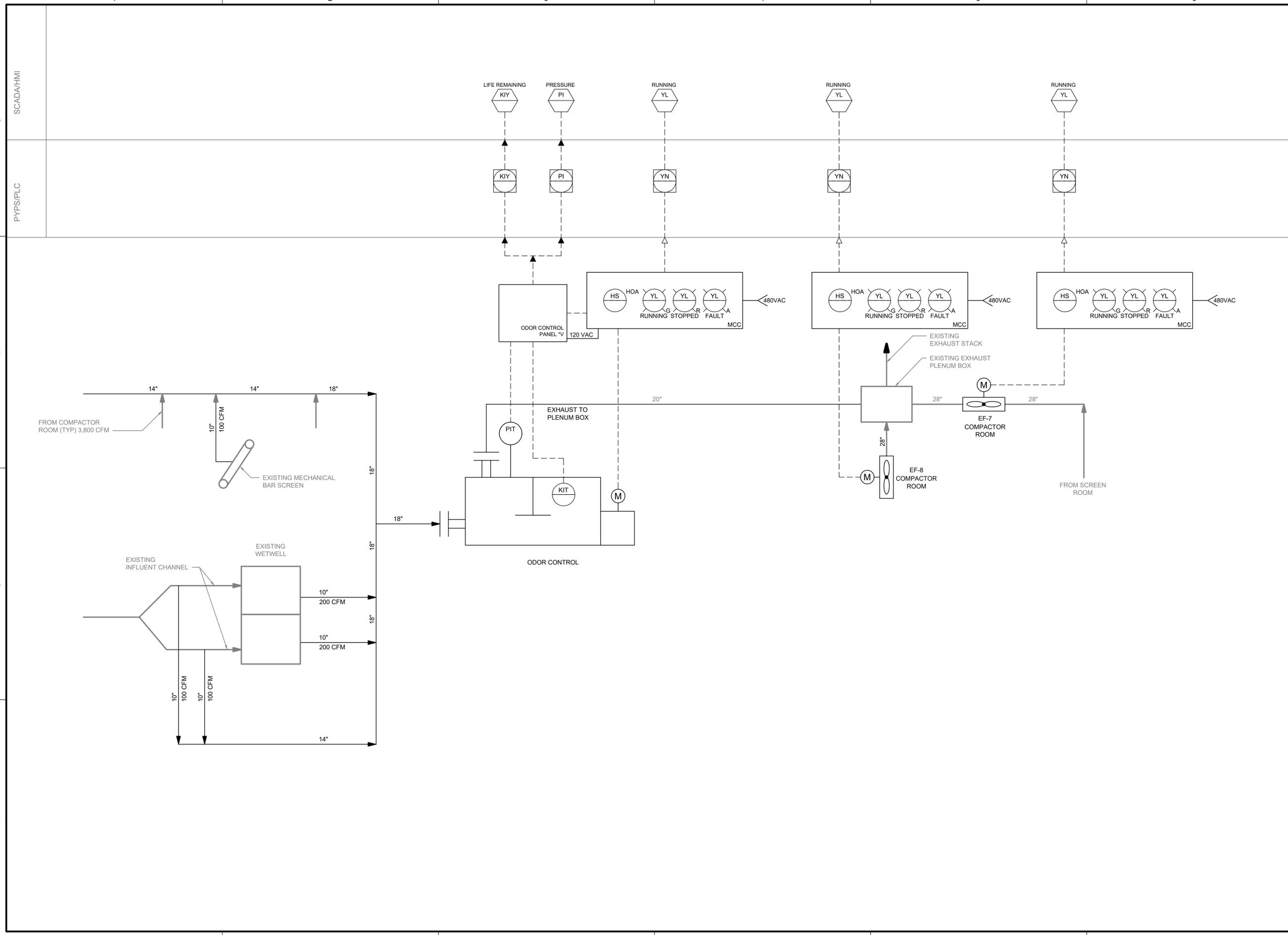
LINE IS 2 INCHES AT FULL SIZE

DESIGNED: B. OTANI
DRAWN: J. OHM
CHECKED: T. WHETHAM
CHECKED:
APPROVED: T. WHETHAM

FILENAME	I-2.dwg
BC PROJECT NUMBER	155776
CLIENT PROJECT NUMBER	

INSTRUMENTATION LEGEND AND SYMBOLS 2

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POTOMAC YARD PUMP STATION VENTILATION IMPROVEMENTS AND ODOR CONTROL SYSTEM

REVISIONS

REV	DATE	DESCRIPTION

DESIGNED: B. OTANI
 DRAWN: J. OHM
 CHECKED: T. WHETHAM
 APPROVED: T. WHETHAM
 FILENAME: I-3.dwg
 BC PROJECT NUMBER: 155776
 CLIENT PROJECT NUMBER:

SCREEN ROOM AND COMPACTOR ROOM P&ID

DRAWING NUMBER: **I-3**
 SHEET NUMBER OF: **15** OF **15**