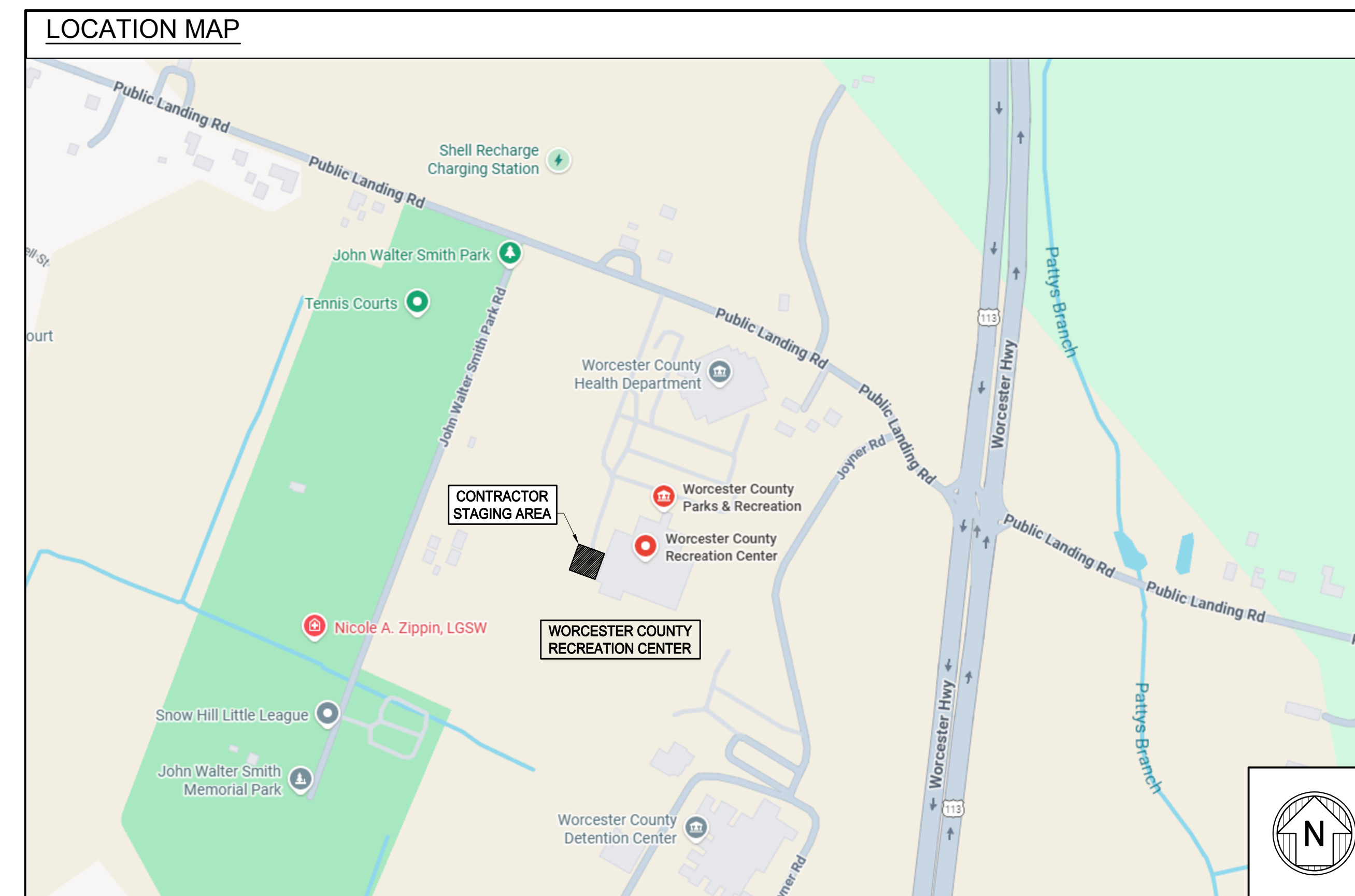
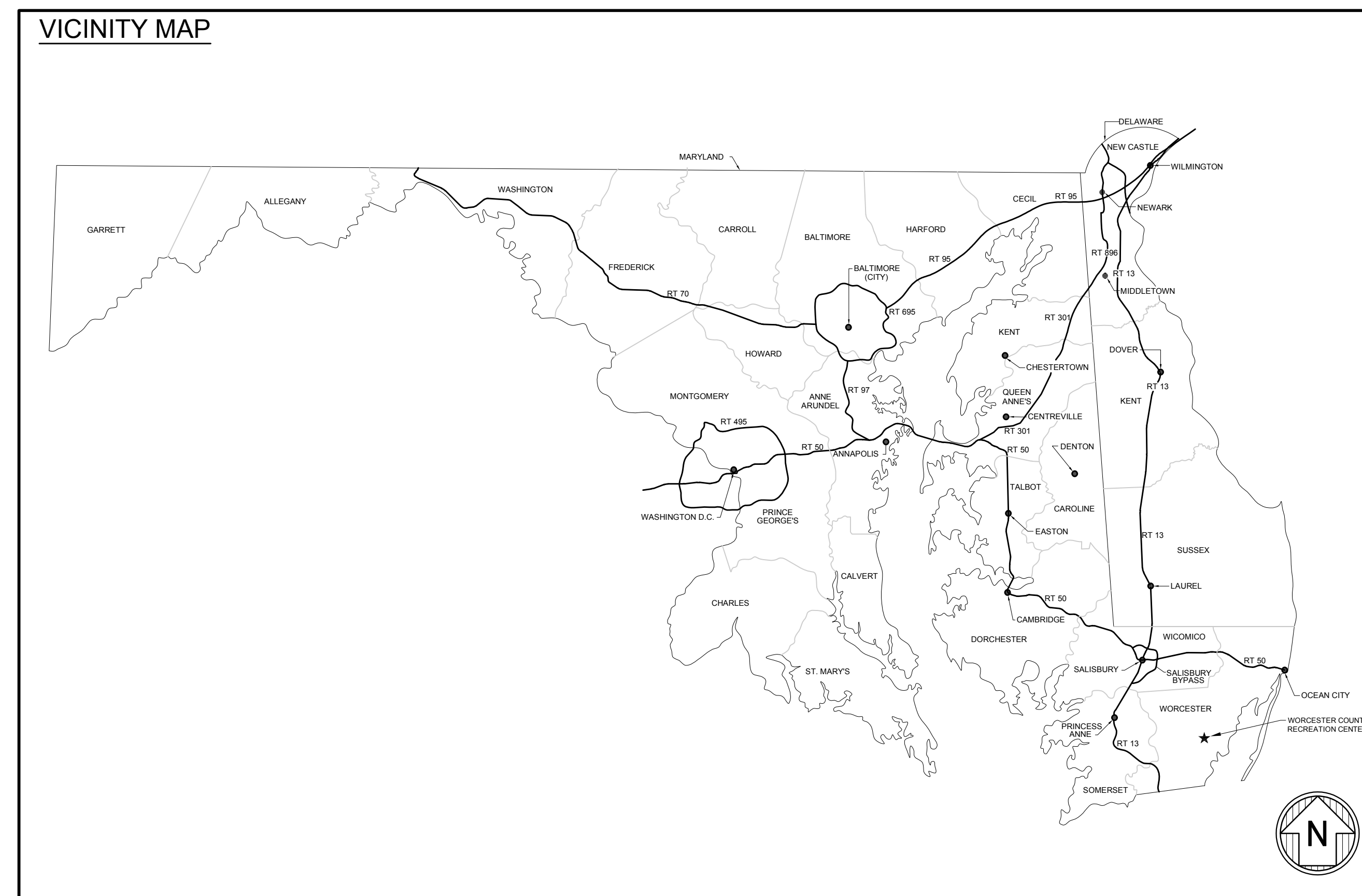


Drawings for:

WORCESTER COUNTY RECREATION CENTER HVAC SYSTEM REPLACEMENTS

**6030 PUBLIC LANDING RD,
SNOW HILL, MD 21863**



DRAWING LIST	
GENERAL:	ELECTRICAL:
CS001 COVER SHEET	E001 LEGEND AND ABBREVIATIONS - ELECTRICAL
MECHANICAL:	EDP101 FIRST FLOOR PLAN - POWER - DEMOLITION
M001 LEGEND AND ABBREVIATIONS - HVAC	ED201 PART PLAN - ELECTRICAL - DEMOLITION
MD101 FIRST FLOOR PLAN - HVAC - DEMOLITION	ED202 PART PLAN - ELECTRICAL - DEMOLITION
MD201 PART PLAN - HVAC - DEMOLITION	EP101 FIRST FLOOR PLAN - POWER - NEW WORK
MD202 PART PLAN - HVAC - DEMOLITION	E201 PART PLAN - ELECTRICAL - NEW WORK
M101 FIRST FLOOR PLAN - HVAC - NEW WORK	E202 PART PLAN - ELECTRICAL - NEW WORK
M201 PART PLAN - HVAC - NEW WORK	E301 DETAILS - ELECTRICAL
M202 PART PLAN - HVAC - NEW WORK	E302 DETAILS - ELECTRICAL
M301 DETAILS - HVAC	E501 SCHEDULES - ELECTRICAL
M302 DETAILS - HVAC	E601 SINGLE LINE DIAGRAM - ELECTRICAL
M303 DETAILS - HVAC	
M401 CONTROLS - HVAC	
M402 CONTROLS - HVAC	
M501 SCHEDULES - HVAC	

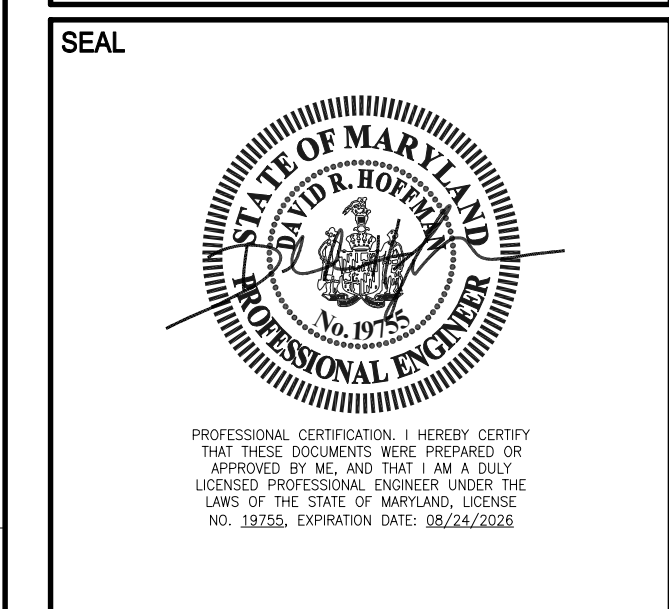
BID DOCUMENTS
Date: MARCH 12, 2026

REVISIONS		
no.	date	comments

ENGINEER

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WCV# 25092

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CONTRACTOR STAGING AREA
Nicole A. Zippin, LGSW

**WORCESTER COUNTY RECREATION CENTER
HVAC SYSTEM REPLACEMENTS**
6030 PUBLIC LANDING RD,
SNOW HILL, MD 21863

SUBMISSION

BID DOCUMENTS

COVER SHEET

DESIGNED BY	RAK	CS001
CHECKED BY	DRH	
SCALE	AS NOTED	
JOB NO.	25092	
DATE	03/12/2026	

MECHANICAL ABBREVIATIONS			
ABBREV.	DEFINITION	ABBREV.	DEFINITION
AFF	ABOVE FINISHED FLOOR	%	PERCENT
AFG	ABOVE FINISHED GRADE	DELTA P	PRESSURE DIFFERENCE
AHJ	AIR HANDLING UNIT	DELTA T	TEMPERATURE DIFFERENCE
APD	AIR PRESSURE DROP	LBS	POUNDS
APPROX	APPROXIMATELY	MAX	MAXIMUM
BHP	BRAKE HORSEPOWER	MECH	MECHANICAL
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
BTUH	BRITISH THERMAL UNITS/HOUR	MOCP	MAX. OVERCURRENT PROTECTION
MBH	BTU PER HOUR (THOUSAND)	MOD	MOTORIZED DAMPER
CAP	CAPACITY	NC	NORMALLY CLOSED
CCMS	CENTRAL CONTROL MONITORING STATION	NO	NORMALLY OPEN
CW	CLOCKWISE	NO#	NUMBER
C	CLOSED	Ø	PHASE
COP	COEFFICIENT OF PERFORMANCE	OA	OUTSIDE AIR
CONT	CONTINUATION	OAT	OUTSIDE AIR TEMPERATURE
CCW	COUNTER CLOCKWISE	OED	OPEN END DUCT
CFM	CUBIC FEET PER MINUTE	PD	PRESSURE DROP
°F	DEGREES FAHRENHEIT	PSI	POUNDS PER SQUARE INCH
DN	DOWN	RA	RETURN AIR
DWG	DRAWING	REQD	REQUIRED
DB	DRY BULB	RH	RELATIVE HUMIDITY
DD	DUCT DETECTOR	RH	ROOF HOOD
ECON	ECONOMIZER	RM	ROOM
EFF	EFFICIENCY	RPM	REVOLUTIONS PER MINUTE
ELEC CHAR	ELECTRICAL CHARACTERISTICS	SECT	SECTION
EER	ENERGY EFFICIENCY RATIO	SENS	SENSIBLE
EAT	ENTERING AIR TEMPERATURE	SL	SOUND LINING
EQUIP	EQUIPMENT	SP	STATIC PRESSURE
EXH	EXHAUST	SPC	STATIC PRESSURE CONTROLLER
EF	EXHAUST FAN	SS	STAINLESS STEEL
EX	EXISTING	STD	STANDARD
ESP	EXTERNAL STATIC PRESSURE	STOR	STORAGE
FPM	FEET PER MINUTE	TEMP	TEMPERATURE
FZ	FREEZE STAT	T-OA	OUTSIDE TEMPERATURE SENSOR
FLA	FULL LOAD AMPS	TONS	TONS OF REFRIGERATION
HP	HEAT PUMP	TYP	TYPICAL
HT	HEIGHT	V	VOLTS
HZ	HERTZ	VEL	VELOCITY
HP	HORSEPOWER	VSD	VARIABLE SPEED DRIVE
IN/H2O	INCHES WATER GAUGE	W	WITH
KW	KILOWATT	WB	WET BULB
LAT	LEAVING AIR TEMPERATURE	WG	WATER GAUGE
L	LOUVER		

MECHANICAL LEGEND					
SYMBOL	ABBREV.	DEFINITION	SYMBOL	ABBREV.	DEFINITION
	SA	SUPPLY AIR DUCT UP/DOWN		CD	A/C CONDENSATE DRAIN
	RA	RETURN AIR DUCT UP/DOWN		LPG	PROPANE GAS PIPING
	EA	EXHAUST AIR DUCT UP/DOWN		#	DRAWING NOTE - DEMOLITION
	OA	OUTSIDE AIR DUCT UP/DOWN		#	DRAWING NOTE - NEW WORK
		RECT. TO ROUND TRANSITION			SHUT-OFF VALVE
		DUCT TRANSITION			FLANGE
		FLEXIBLE CONNECTION (DUCTWORK)			CONCENTRIC REDUCER
	AMS	AIR MONITORING STATION			ECCENTRIC REDUCER
	SL	SOUND LINING			FLEXIBLE CONNECTION (PIPING)
		ELBOW W/ TURNING VANES			PIPE - TURN DOWN
		RADIUS ELBOW			PIPE - TURN UP
	VD	MANUAL VOLUME DAMPER			PIPE - BOTTOM TAKE OFF
	MOD	MOTOR OPERATED DAMPER			PIPE - TOP TAKE OFF
	DD	DUCT SMOKE DETECTOR			GAS PRESSURE REGULATOR
	SPS	STATIC PRESSURE SENSOR			END CAP
	T'STAT	TEMPERATURE SENSOR WITH GUARD			DIRECTION OF FLOW
	HUMIDISTAT	RELATIVE HUMIDITY SENSOR WITH GUARD			GAS COOK
	CO ₂	CARBON DIOXIDE SENSOR		CX	CONNECT TO EXISTING
	CO	CARBON MONOXIDE SENSOR		RX	REMOVE EXISTING (ENDS HERE)
	ATC	AUTOMATIC TEMPERATURE CONTROL PANEL			SEWER
		FLEXIBLE HOSE			SEWER
	RS	REFRIGERANT SUCTION			SEWER
	RL	REFRIGERANT LIQUID			SEWER

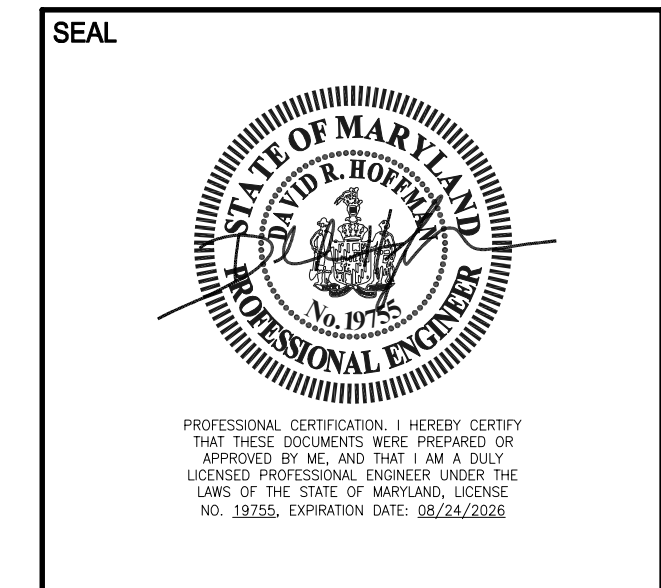
NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

REVISIONS		
no.	date	comments

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SUBMISSION

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LEGEND AND ABBREVIATIONS HVAC

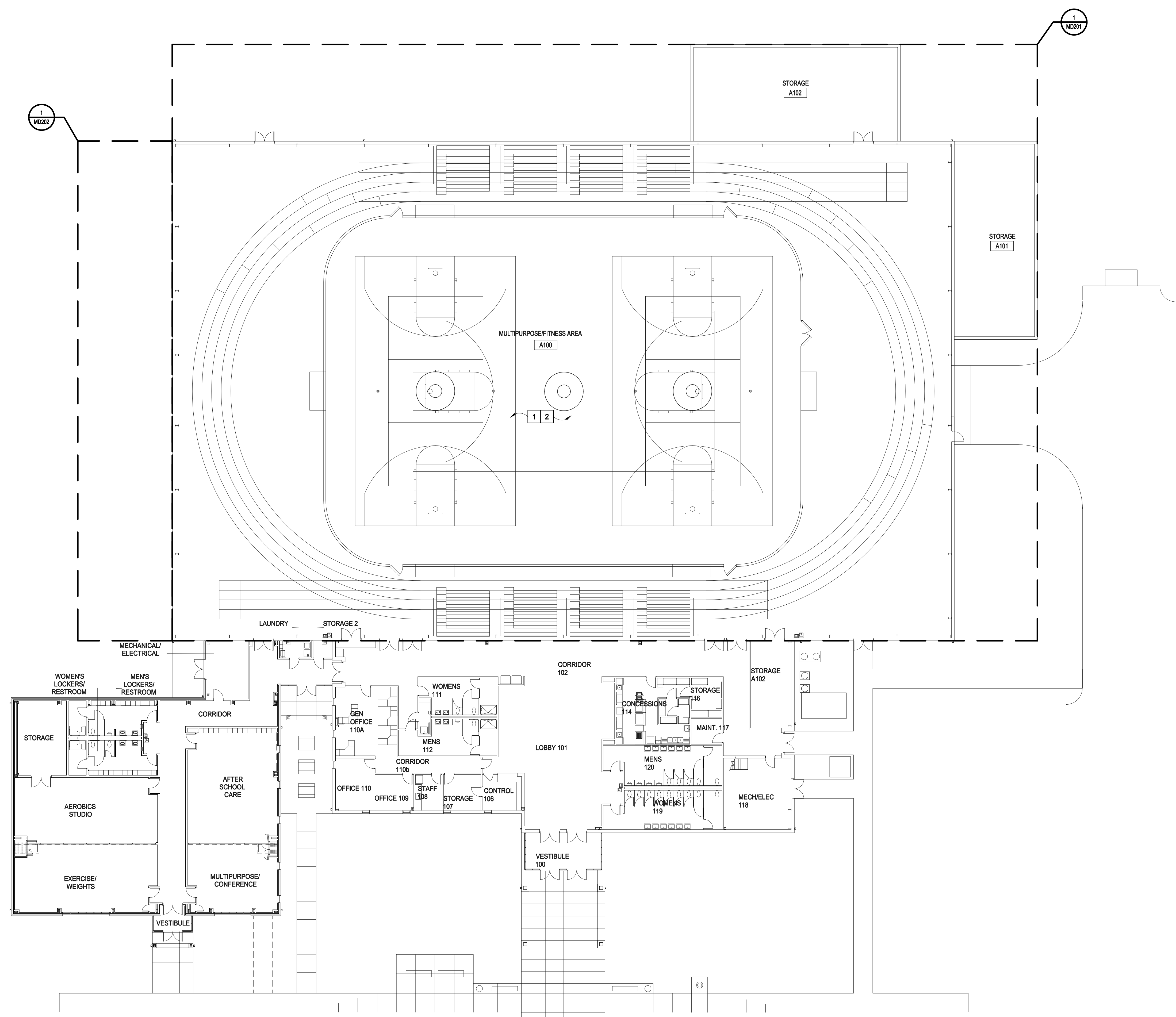
DESIGNED BY	RAK
CHECKED BY	DRH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2008

M001

1 2 3 4 5 6 7 8 9 0

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

- 1 PROVIDE FLOOR PROTECTION FOR MULTIPURPOSE/FITNESS AREA A100 FLOOR DURING DEMOLITION, NEW CONSTRUCTION WORK, AND TESTING/BALANCING. FLOOR PROTECTION SHALL CONSIST OF A MINIMUM OF 0.946 INCH MATTING (RAM BOARD) AND SINGLE LAYER OF 3/4-INCH PLYWOOD. VIDEO RECORD CONDITION OF FLOOR PRIOR TO WORK TAKING PLACE. ALL FLOOR OR FINISH DAMAGE SHALL BE CORRECTED BY CONTRACTOR.
- 2 MAXIMUM WEIGHT OF MACHINE, OPERATOR, LOAD AND TOOLS SHALL NOT EXCEED 4,500 LBS. FOR ANY LIFT TYPE WHERE MACHINE WEIGHT ALONE EXCEEDS 3,500 LBS, CONSULT FLOORING MANUFACTURER. NO HEAVY LOADS (GREATER THAN 500LBS) (EQUIPMENT OR MATERIAL) SHALL BE LEFT ON THE FLOOR OVERNIGHT OR FOR PERIODS GREATER THAN 4 HOURS IN ONE LOCATION.

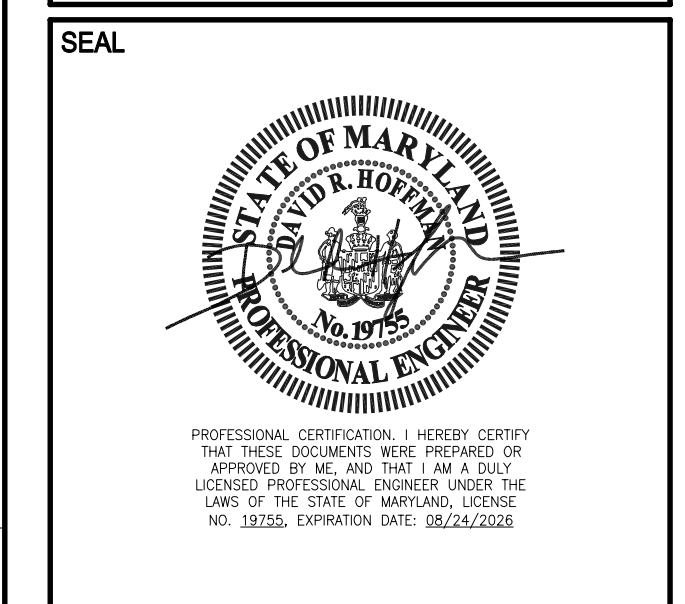


REVISIONS		
no.	date	comments

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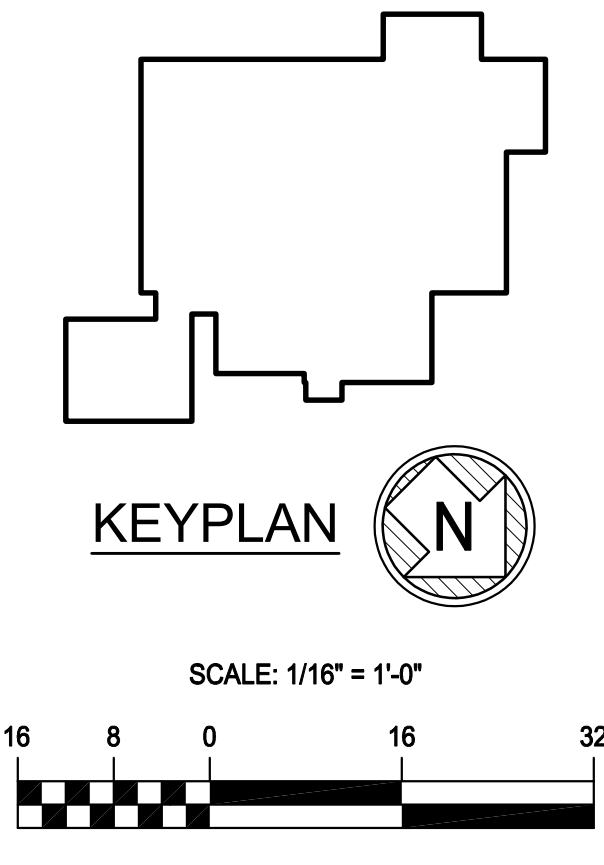
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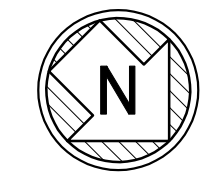
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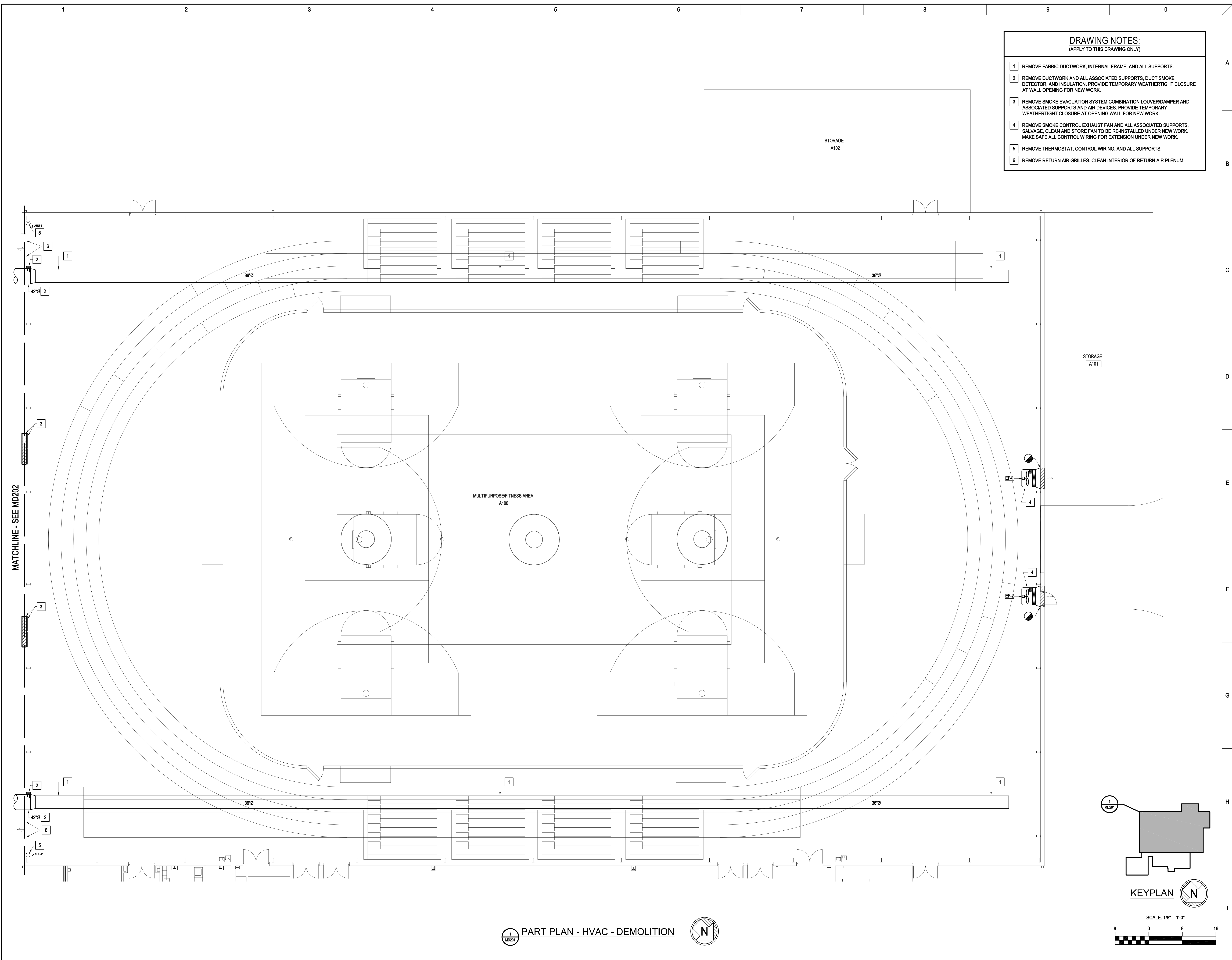
**FIRST FLOOR PLAN
HVAC
DEMOLITION**

DESIGNED BY	RAK	MD101
CHECKED BY	DRH	
SCALE	AS NOTED	
DATE	03/12/2028	



FIRST FLOOR PLAN - HVAC - DEMOLITION





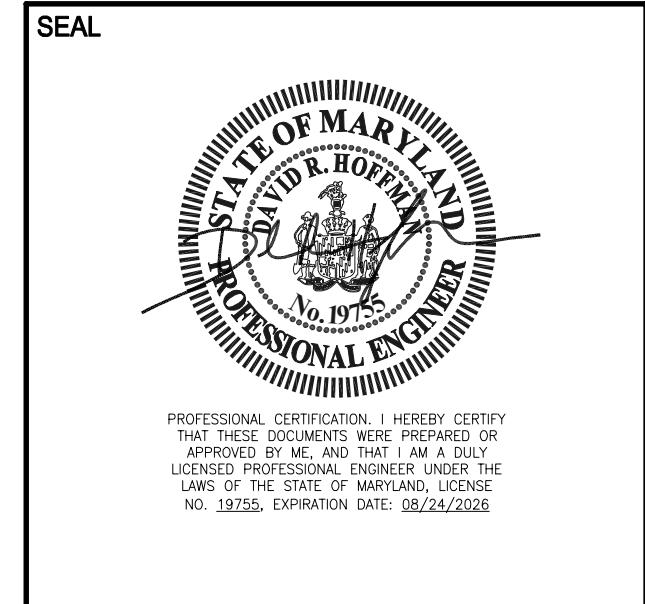
- DRAWING NOTES:**
(APPLY TO THIS DRAWING ONLY)
- 1 REMOVE FABRIC DUCTWORK, INTERNAL FRAME, AND ALL SUPPORTS.
 - 2 REMOVE DUCTWORK AND ALL ASSOCIATED SUPPORTS. DUCT SMOKE DETECTOR, AND INSULATION. PROVIDE TEMPORARY WEATHERTIGHT CLOSURE AT WALL OPENING FOR NEW WORK.
 - 3 REMOVE SMOKE EVACUATION SYSTEM COMBINATION LOUVER/DAMPER AND ASSOCIATED SUPPORTS AND AIR DEVICES. PROVIDE TEMPORARY WEATHERTIGHT CLOSURE AT OPENING WALL FOR NEW WORK.
 - 4 REMOVE SMOKE CONTROL EXHAUST FAN AND ALL ASSOCIATED SUPPORTS. SALVAGE, CLEAN AND STORE FAN TO BE RE-INSTALLED UNDER NEW WORK. MAKE SAFE ALL CONTROL WIRING FOR EXTENSION UNDER NEW WORK.
 - 5 REMOVE THERMOSTAT, CONTROL WIRING, AND ALL SUPPORTS.
 - 6 REMOVE RETURN AIR GRILLES. CLEAN INTERIOR OF RETURN AIR PLENUM.

no.	date	comments

ENGINEER

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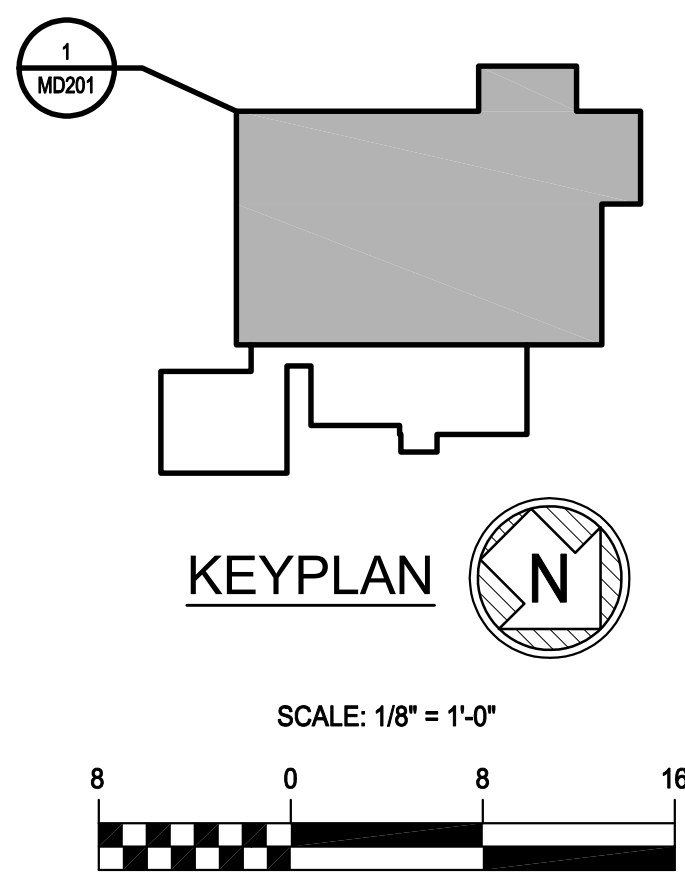
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**PART PLAN
HVAC
DEMOLITION**

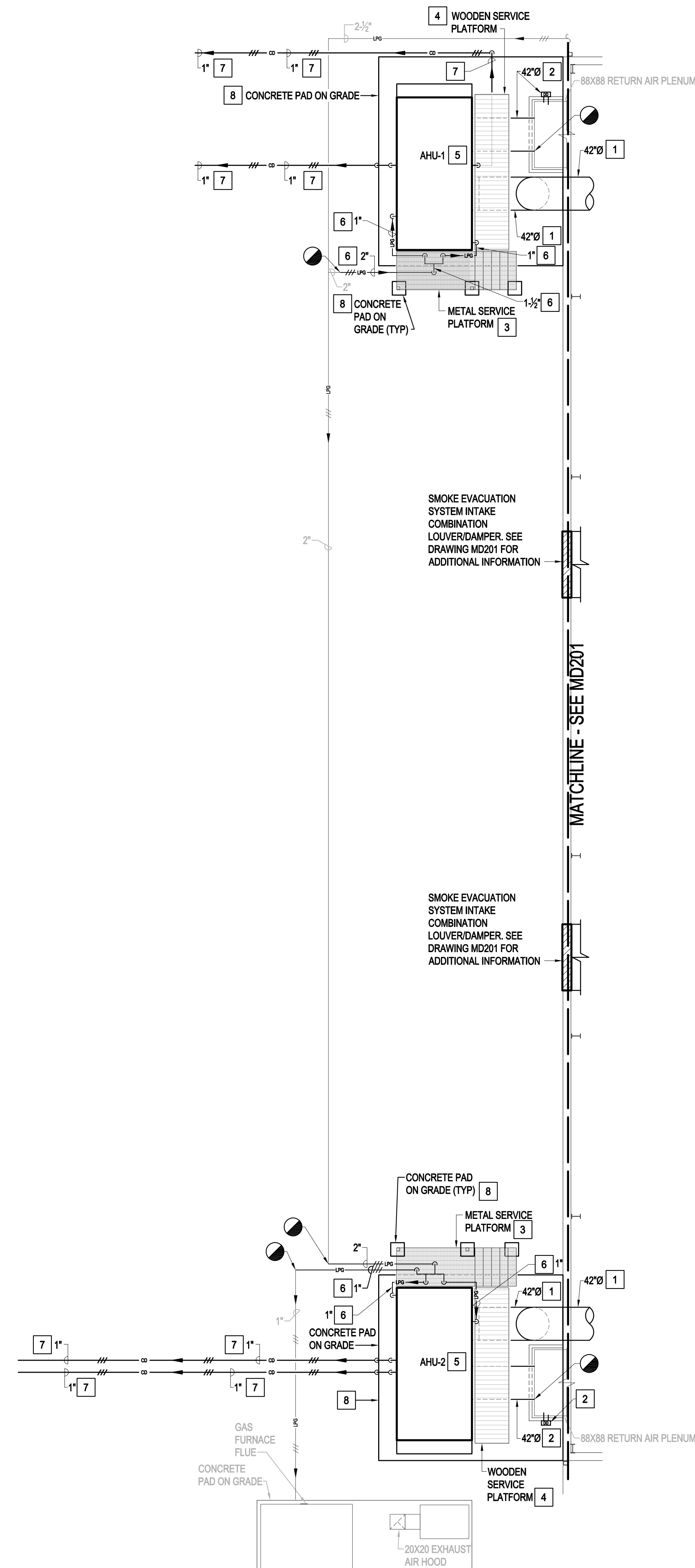
DESIGNED BY	RAK	MD201
CHECKED BY	DRH	
SCALE	AS NOTED	
JOB NO.	25092	
DATE	03/12/2028	

1 MD201 PART PLAN - HVAC - DEMOLITION

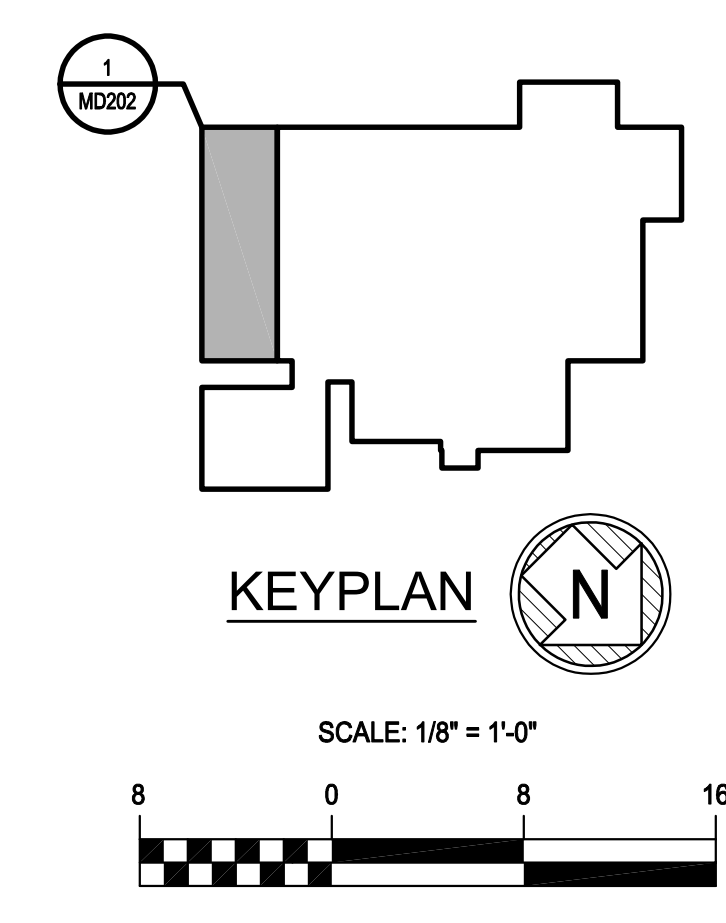


DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

- 1 REMOVE DUCTWORK, INSULATION, AND ALL SUPPORTS TO POINT INDICATED. PROVIDE TEMPORARY WEATHERTIGHT CLOSURE AT WALL OPENING FOR NEW WORK.
- 2 REMOVE DUCTWORK, INSULATION, DUCT SMOKE DETECTOR, AND ALL SUPPORTS TO POINT INDICATED. PROVIDE TEMPORARY CAP FOR EXTENSION UNDER NEW WORK.
- 3 REMOVE METAL SERVICE PLATFORM AND ALL SUPPORTS.
- 4 REMOVE WOODEN SERVICE PLATFORM AND ALL SUPPORTS.
- 5 REMOVE AIR HANDLING UNIT, PLENUM BASE AND ALL SUPPORTS AND CONTROLS.
- 6 REMOVE PROPANE PIPING AND ASSOCIATED PRESSURE REGULATOR, VALVES, AND ALL SUPPORTS TO POINT INDICATED. PROVIDE TEMPORARY CAP FOR EXTENSION UNDER NEW WORK.
- 7 REMOVE CONDENSATE PIPING AND ALL ASSOCIATED SUPPORTS.
- 8 REMOVE CONCRETE PAD.



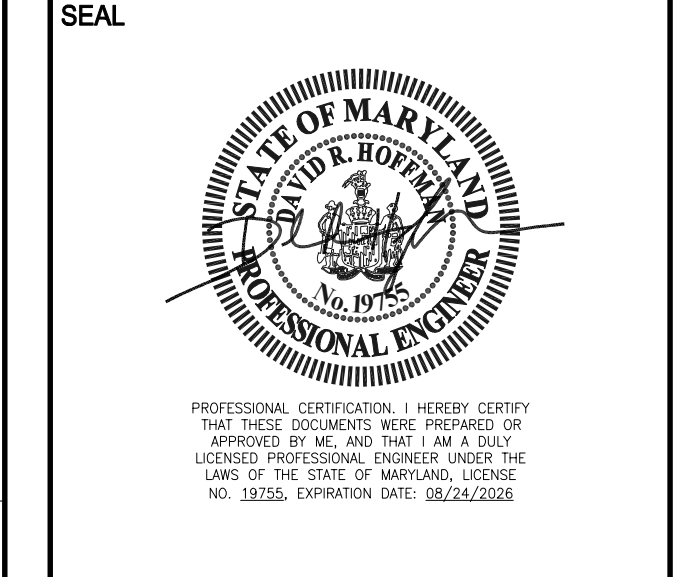
1 MD202 PART PLAN - HVAC - DEMOLITION



no.	date	comments

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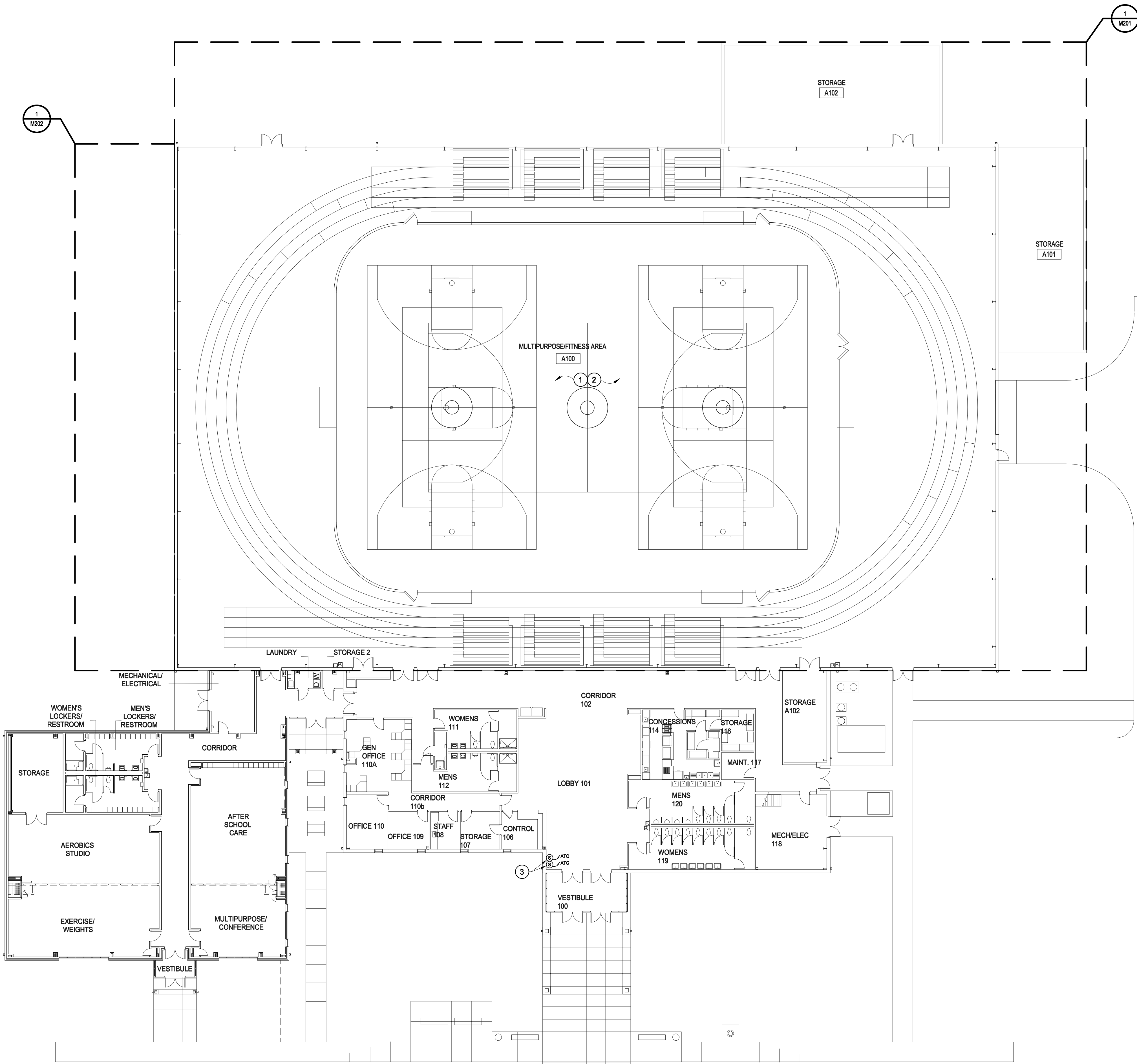
**PART PLAN
HVAC
DEMOLITION**

DESIGNED BY	RAK
CHECKED BY	DRH
SCALE	AS NOTED
JOB NO.	MD202
DATE	03/12/2028

1 2 3 4 5 6 7 8 9 0

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

- 1 PROVIDE FLOOR PROTECTION FOR MULTIPURPOSE/FITNESS AREA A100 FLOOR DURING DEMOLITION AND NEW CONSTRUCTION WORK AND TESTING/BALANCING. FLOOR PROTECTION SHALL CONSIST OF A MINIMUM OF 0.048 INCH MATTING (RAM BOARD) AND SINGLE LAYER OF 3/4- INCH PLYWOOD. VIDEO RECORD CONDITION OF FLOOR PRIOR TO WORK TAKING PLACE. ALL FLOOR OR FINISH DAMAGE SHALL BE CORRECTED BY CONTRACTOR.
- 2 MAXIMUM WEIGHT OF MACHINE, OPERATOR, LOAD AND TOOLS SHALL NOT EXCEED 4,500 LBS. FOR ANY LIFT TYPE WHERE MACHINE WEIGHT ALONE EXCEEDS 3,500 LBS, CONSULT FLOORING MANUFACTURER. NO HEAVY LOADS (GREATER THAN 500LBS) (EQUIPMENT OR MATERIAL) SHALL BE LEFT ON THE FLOOR OVERNIGHT OR FOR PERIODS GREATER THAN 4 HOURS IN ONE LOCATION.
- 3 FIRE FIGHTERS EMERGENCY AIR HANDLING EQUIPMENT AND SMOKE EVACUATION EQUIPMENT SHUTDOWN KEYED SWITCHES FOR DE-ENERGIZING AIR DISTRIBUTION AND SMOKE EVACUATION SYSTEMS. INTERLOCK WITH BMS, SZAV UNITS, AND SMOKE CONTROL SYSTEM EXHAUST FANS. CONFIRM FINAL LOCATION WITH AHJ.

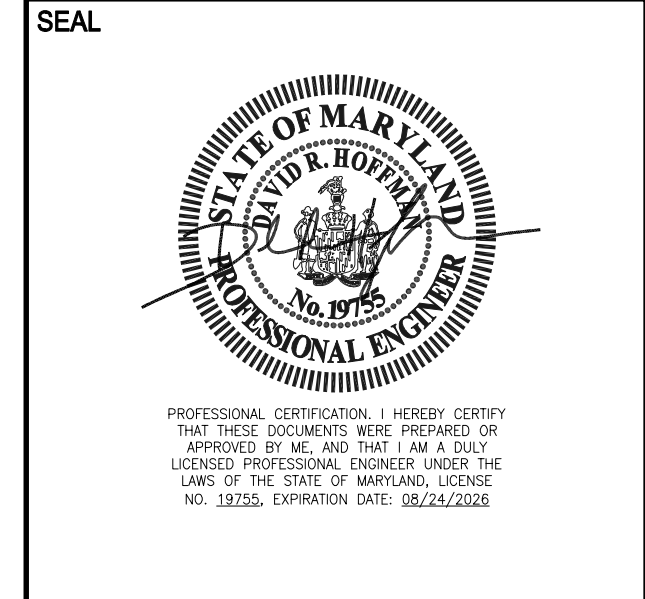


no.	date	comments

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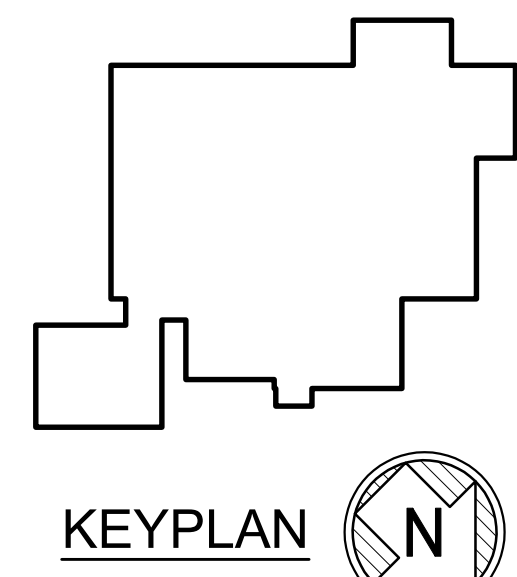
BID DOCUMENTS

**FIRST FLOOR PLAN
HVAC
NEW WORK**

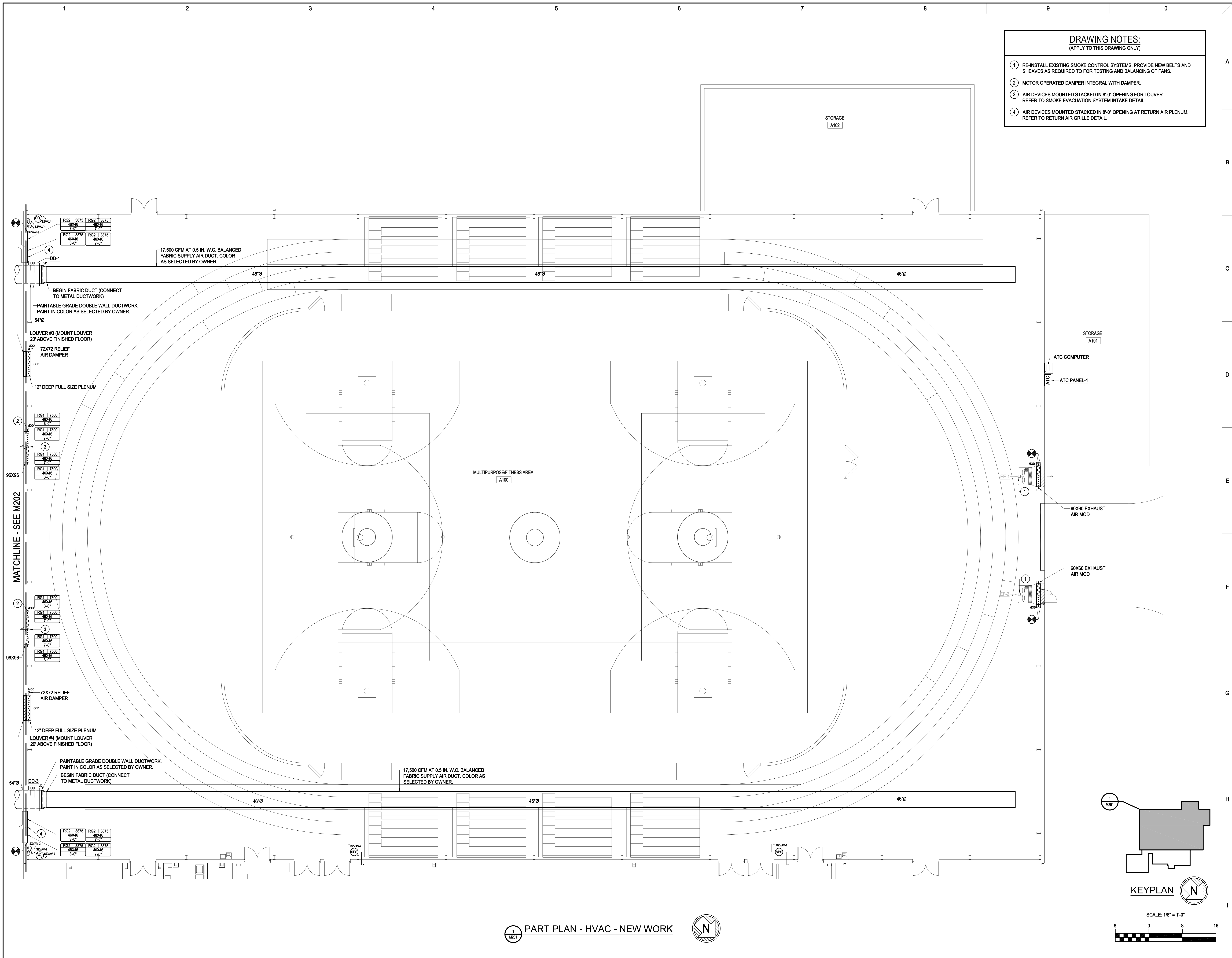
DESIGNED BY	RAK
CHECKED BY	DRH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2028

M101

FIRST FLOOR PLAN - HVAC - NEW WORK



SCALE: 1/16" = 1'-0"



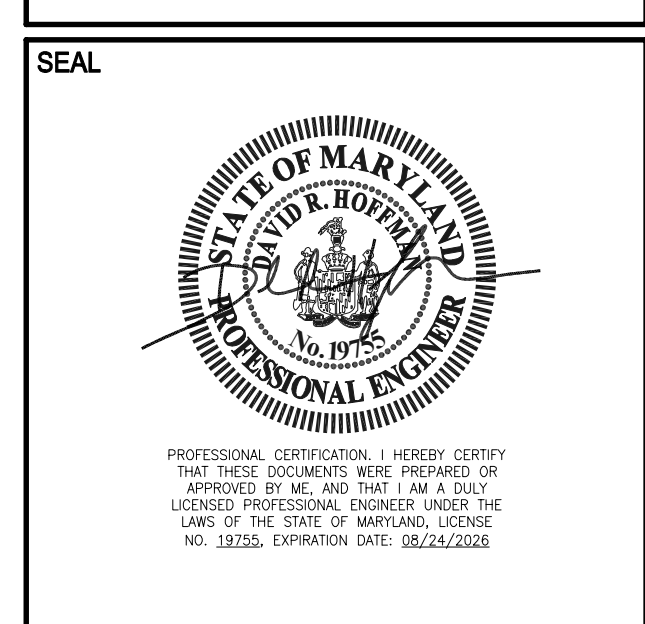
- DRAWING NOTES:**
(APPLY TO THIS DRAWING ONLY)
- ① RE-INSTALL EXISTING SMOKE CONTROL SYSTEMS. PROVIDE NEW BELTS AND SHEAVES AS REQUIRED TO FOR TESTING AND BALANCING OF FANS.
 - ② MOTOR OPERATED DAMPER INTEGRAL WITH DAMPER.
 - ③ AIR DEVICES MOUNTED STACKED IN 8'-0" OPENING FOR LOUVER. REFER TO SMOKE EVACUATION SYSTEM INTAKE DETAIL.
 - ④ AIR DEVICES MOUNTED STACKED IN 8'-0" OPENING AT RETURN AIR PLENUM. REFER TO RETURN AIR GRILLE DETAIL.

no.	date	comments

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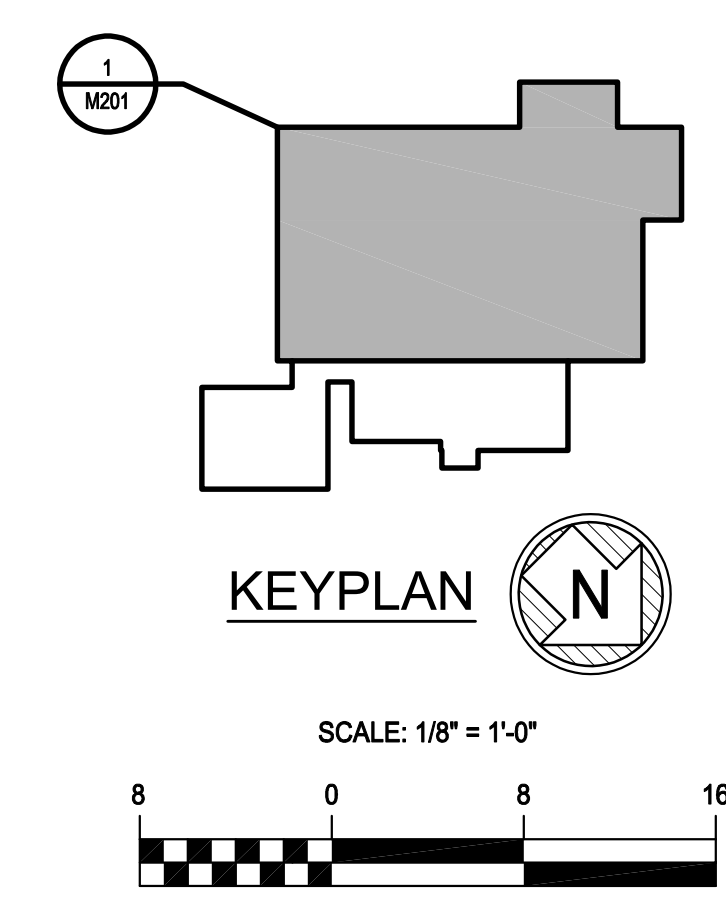
BID DOCUMENTS

**PART PLAN
HVAC
NEW WORK**

DESIGNED BY	RAK
CHECKED BY	DRH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2028

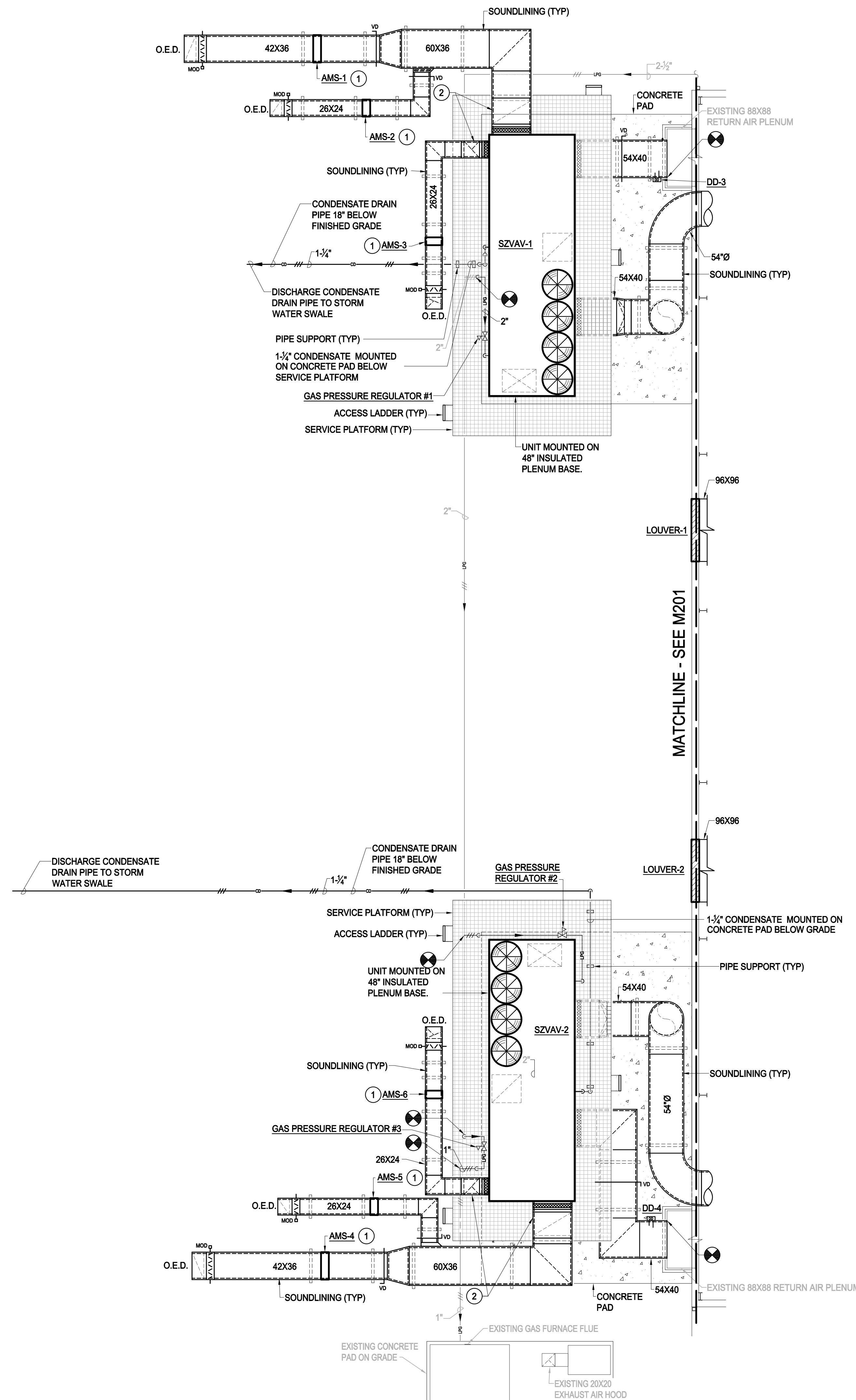
M201

① PART PLAN - HVAC - NEW WORK

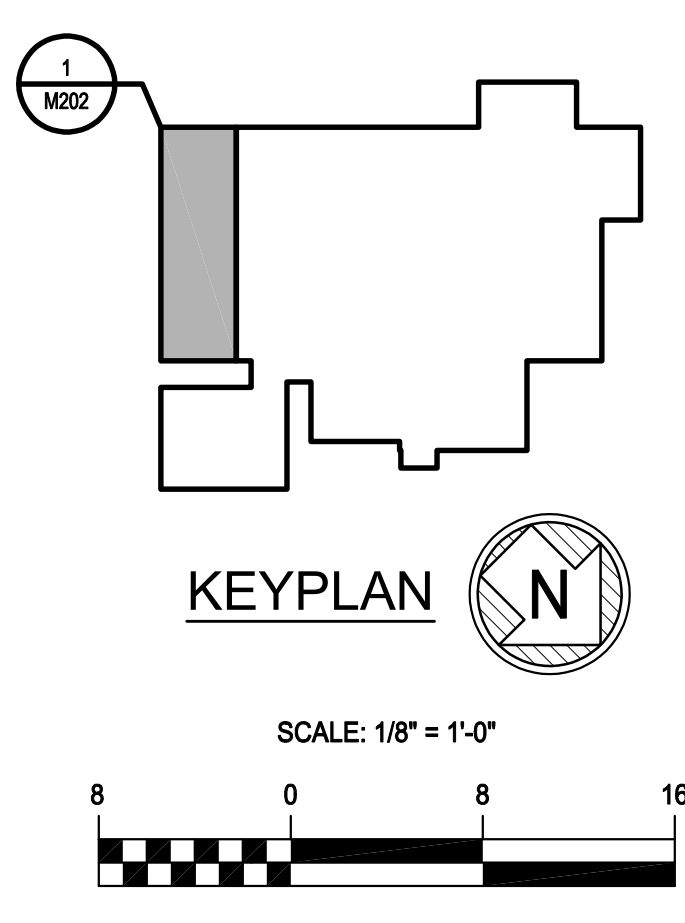


DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

- ① MOUNT AIRFLOW MONITORING STATION DISPLAY IN UNIT CONTROL CABINET.
- ② TURN DUCT UP AS REQUIRED TO CLEAR PLATFORM HANDRAIL.



① PART PLAN - HVAC - NEW WORK

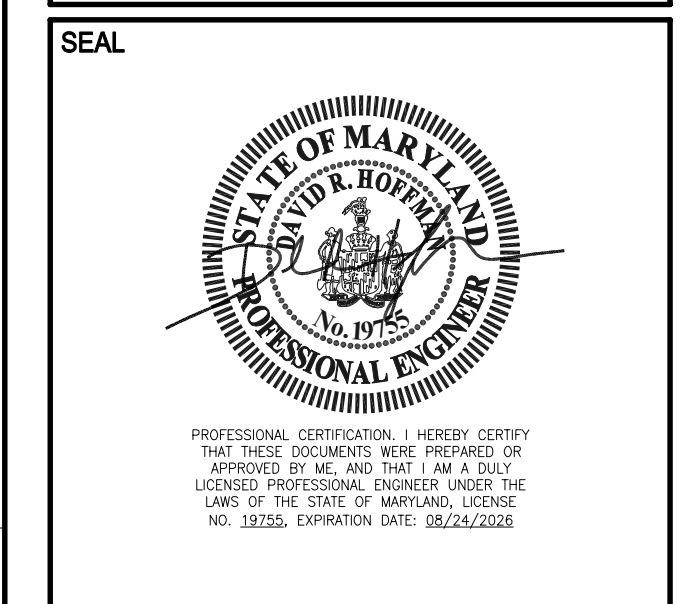


REVISIONS		
no.	date	comments

ENGINEER

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HVAC SYSTEM REPLACEMENTS**

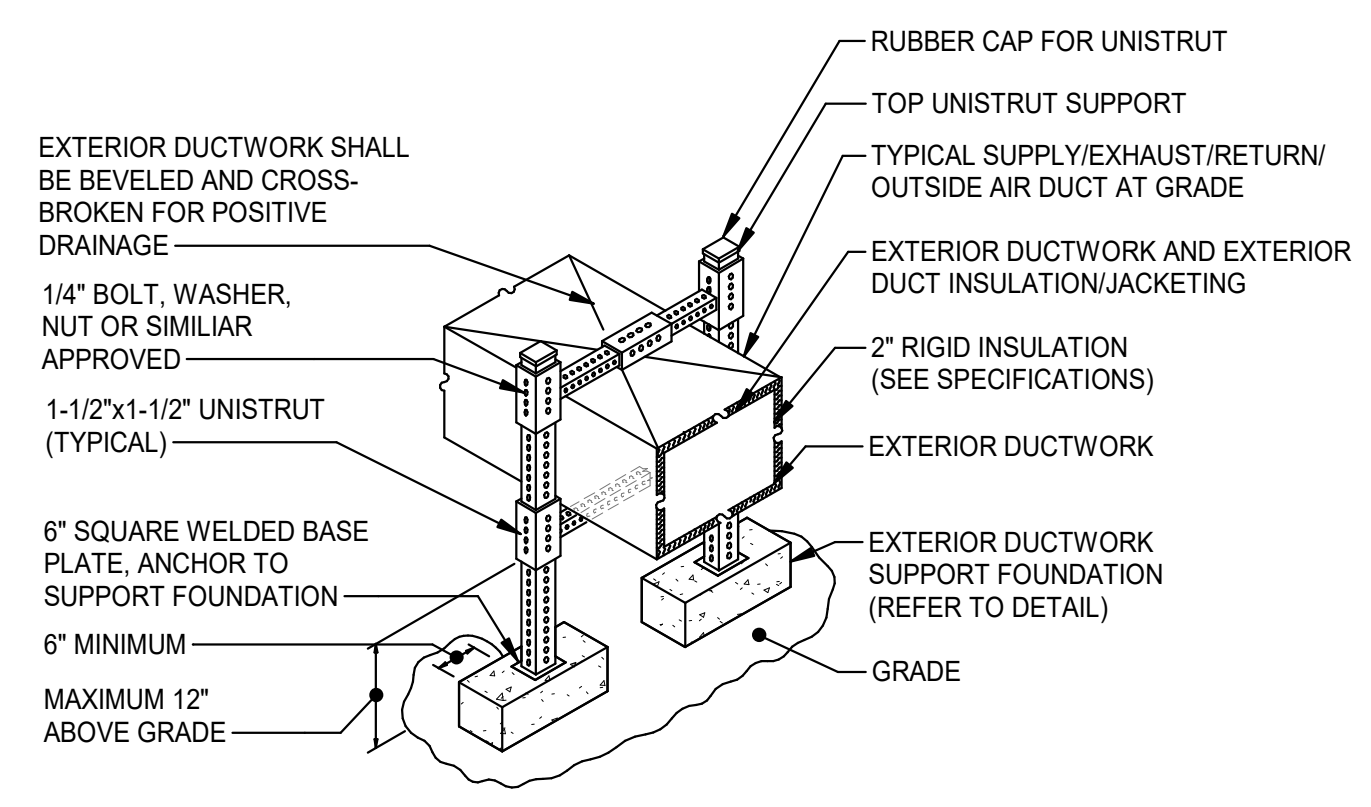
6030 PUBLIC LANDING RD,
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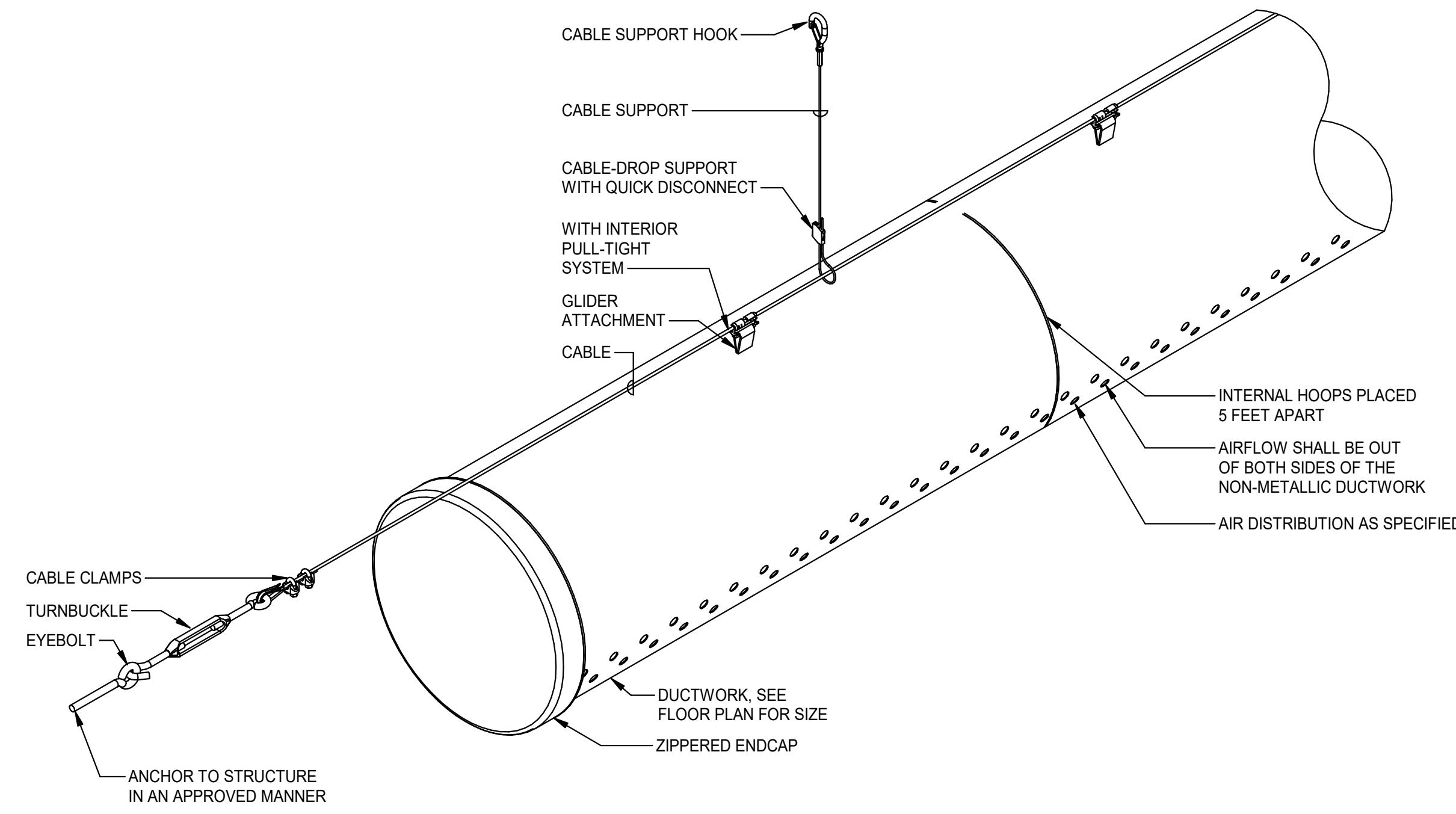
BID DOCUMENTS

**PART PLAN
HVAC
NEW WORK**

DESIGNED BY	RAK	M202
CHECKED BY	DRH	
SCALE	AS NOTED	
JOB NO.	25092	
DATE	03/12/2028	



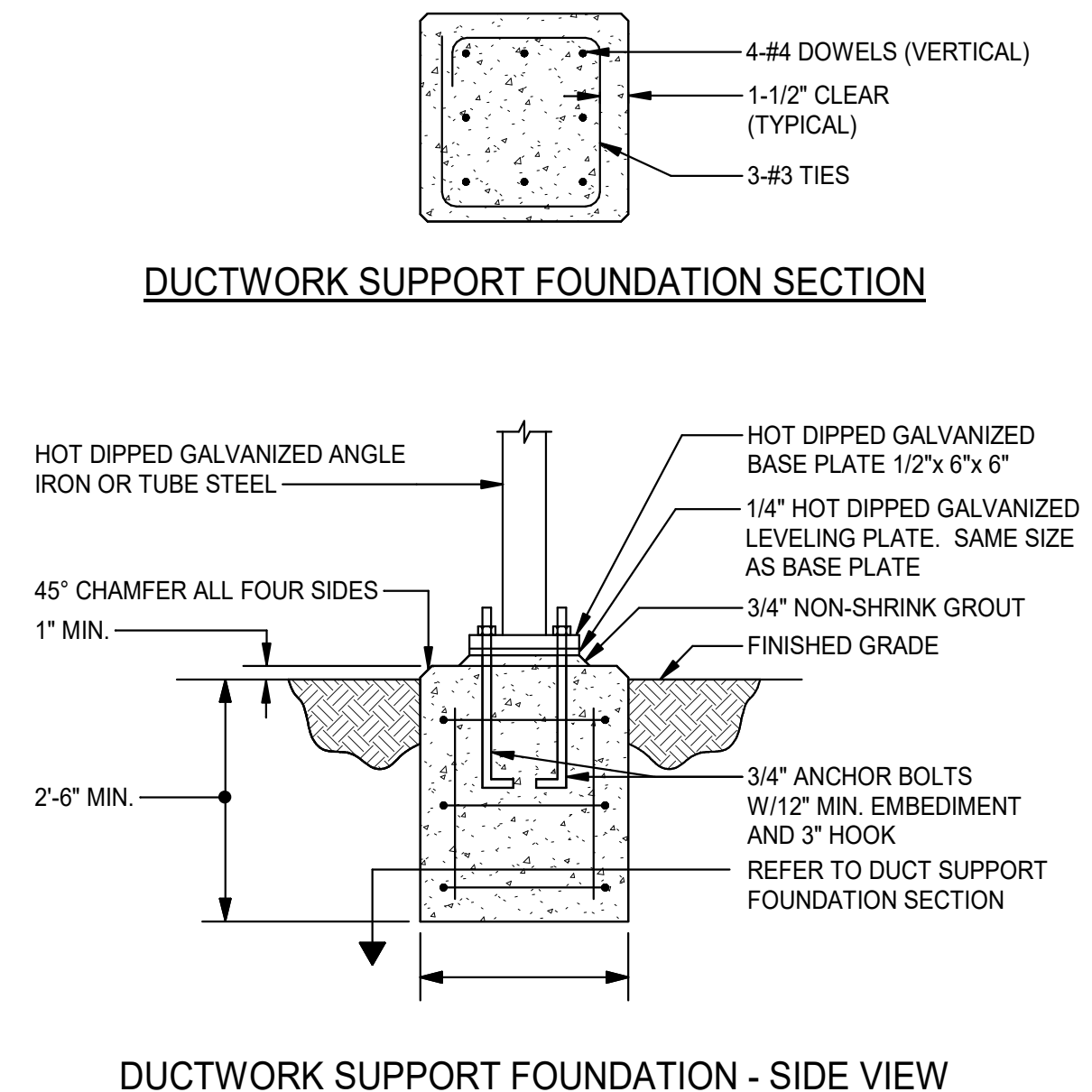
- NOTES:
1. ALL EXTERIOR UNISTRUT, SUPPORTS & HARDWARE SHALL BE STAINLESS STEEL.
 2. INSTALL WATERPROOF, ACCESSIBLE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT AND LABEL THE SAME.
 3. FURNISH WITH SOUND LINING WHERE INDICATED.



- NOTES:
1. REFER TO FLOOR PLANS FOR DUCT DIMENSIONS, LAYOUT AND FITTINGS.
 2. PROVIDE NON-METALLIC DUCTWORK (TEXTILE) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

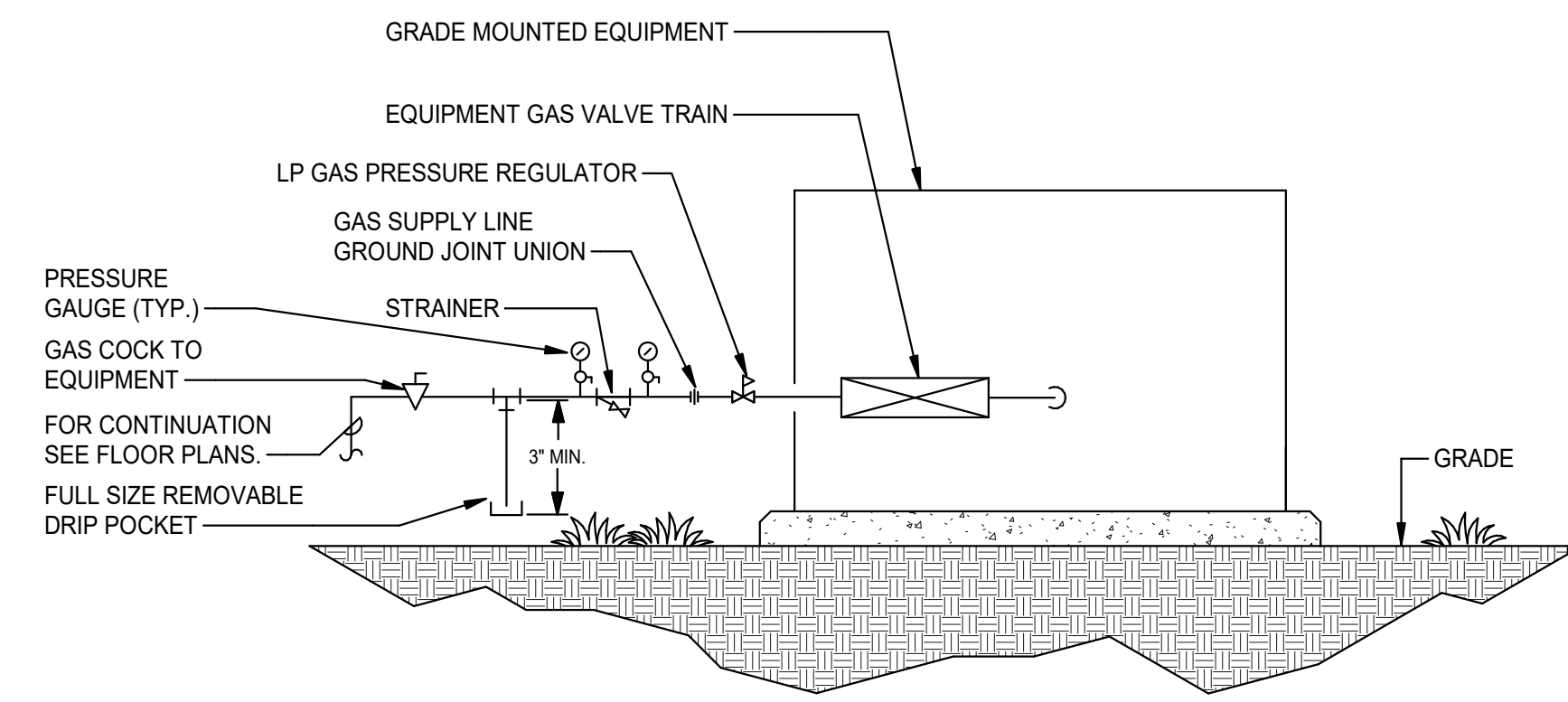
1 DETAIL - EXTERIOR DUCTWORK ON GRADE

2 DETAIL - NON-METALLIC DUCTWORK U-TRACK SUPPORT AND BLOW DIRECTION

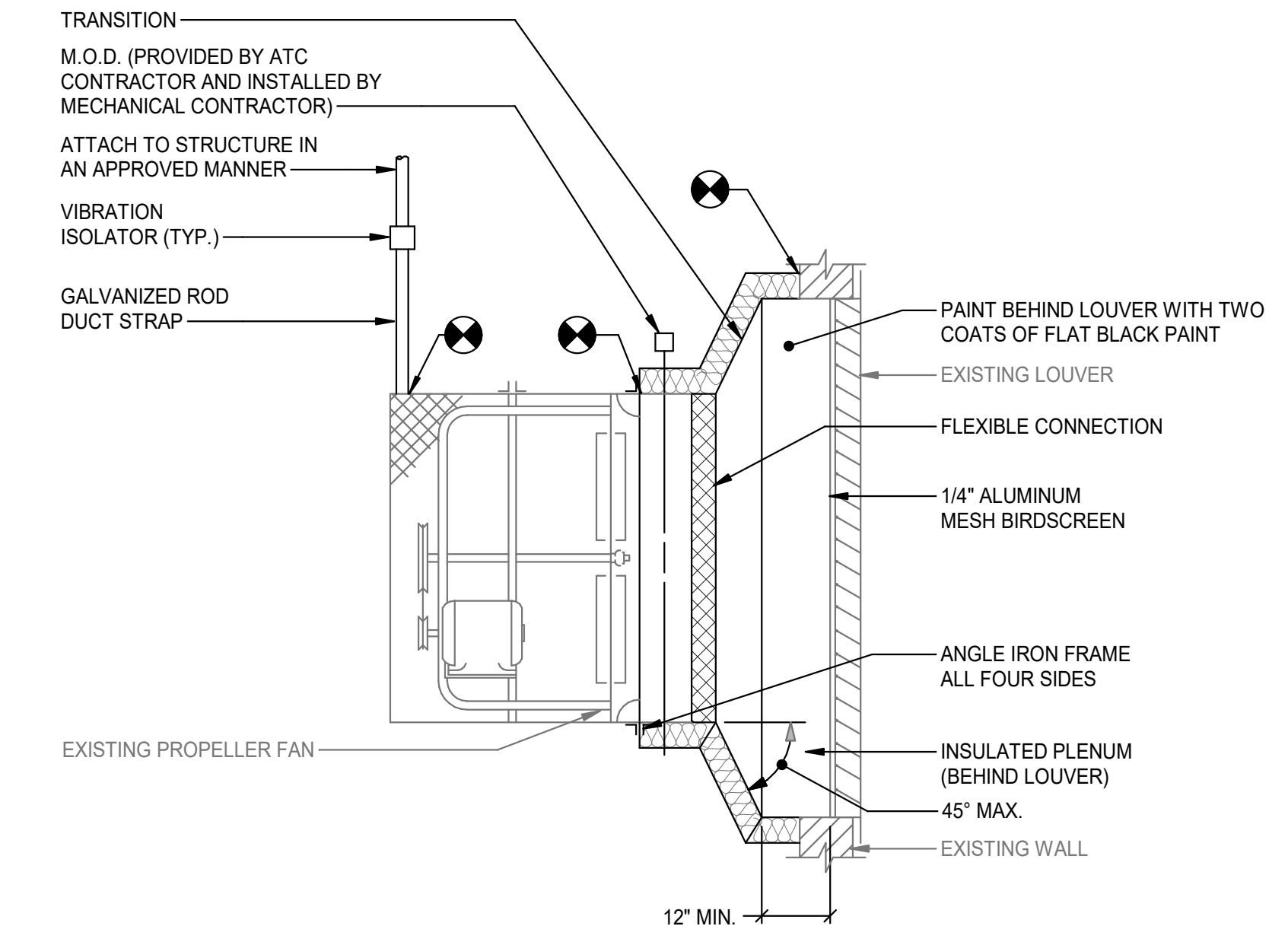


DUCTWORK SUPPORT FOUNDATION SECTION

DUCTWORK SUPPORT FOUNDATION - SIDE VIEW



- NOTE:
1. LOCATE GAS PRESSURE REGULATOR THE MINIMUM DISTANCE AWAY FROM EQUIPMENT PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
 2. LOCATE GAS PRESSURE REGULATOR AWAY FROM SOURCES OF IGNITION PER MANUFACTURER'S REQUIREMENTS
 3. PAINT ALL EXPOSED PIPING AND VALVES AS SPECIFIED. PAINT VALVES IN CONTRASTING COLOR TO PIPING TO MAKE THE VALVES "STAND OUT".



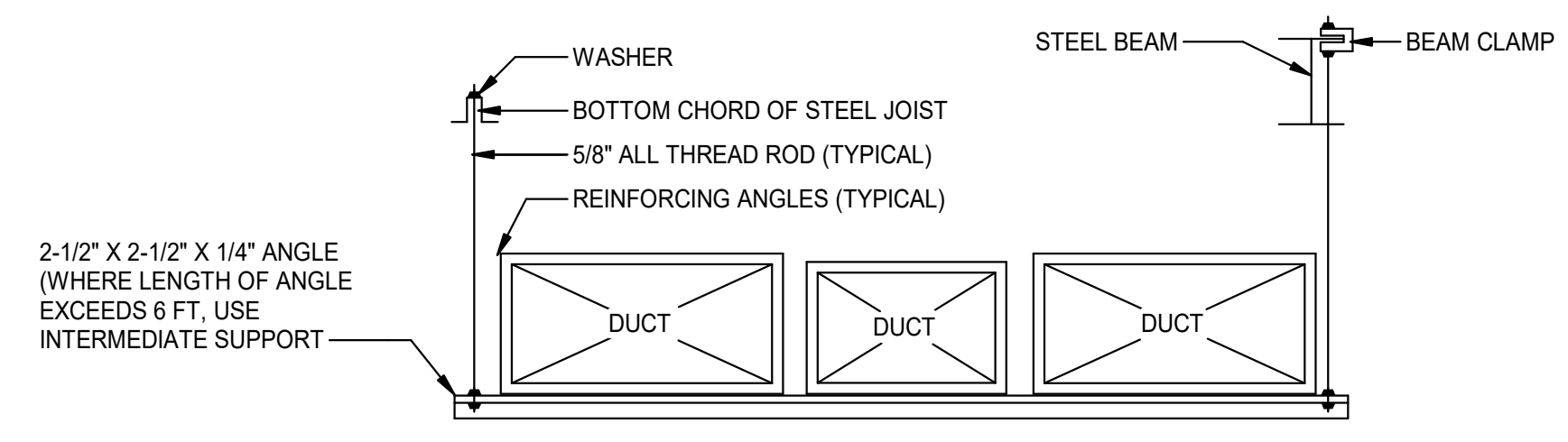
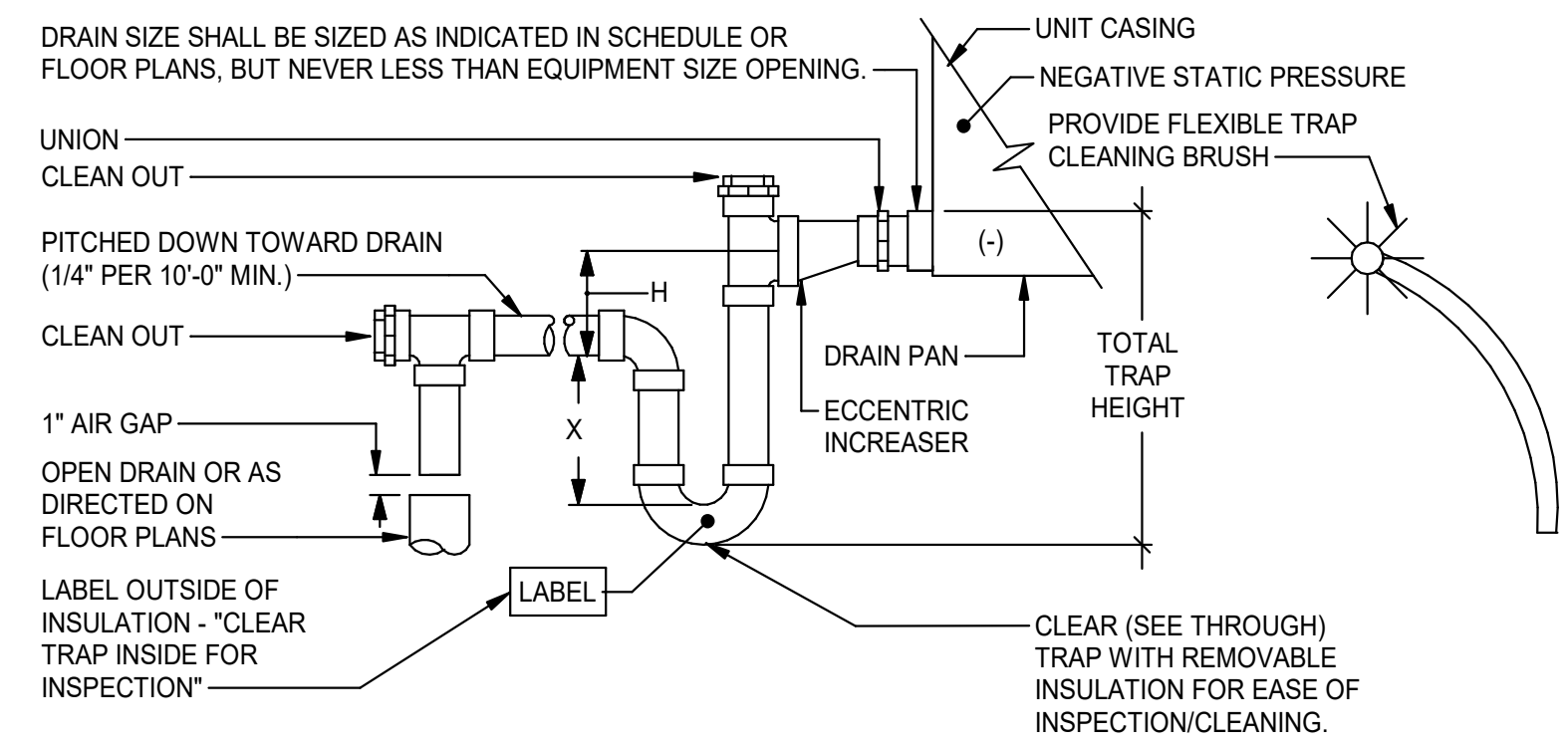
- NOTES:
1. CLEAN FAN MOTOR, FAN BLADES, LOUVER, AND ENCLOSURE.
 2. INSTALL NEW SHEAVES AND BELTS AS REQUIRED FOR TESTING AND BALANCING.

3 DETAIL - EXTERIOR DUCTWORK SUPPORT FOUNDATION

4 DETAIL - GRADE MOUNTED EQUIPMENT GAS PIPING CONNECTION

5 DETAIL - TYPICAL PROPELLER FAN DETAIL

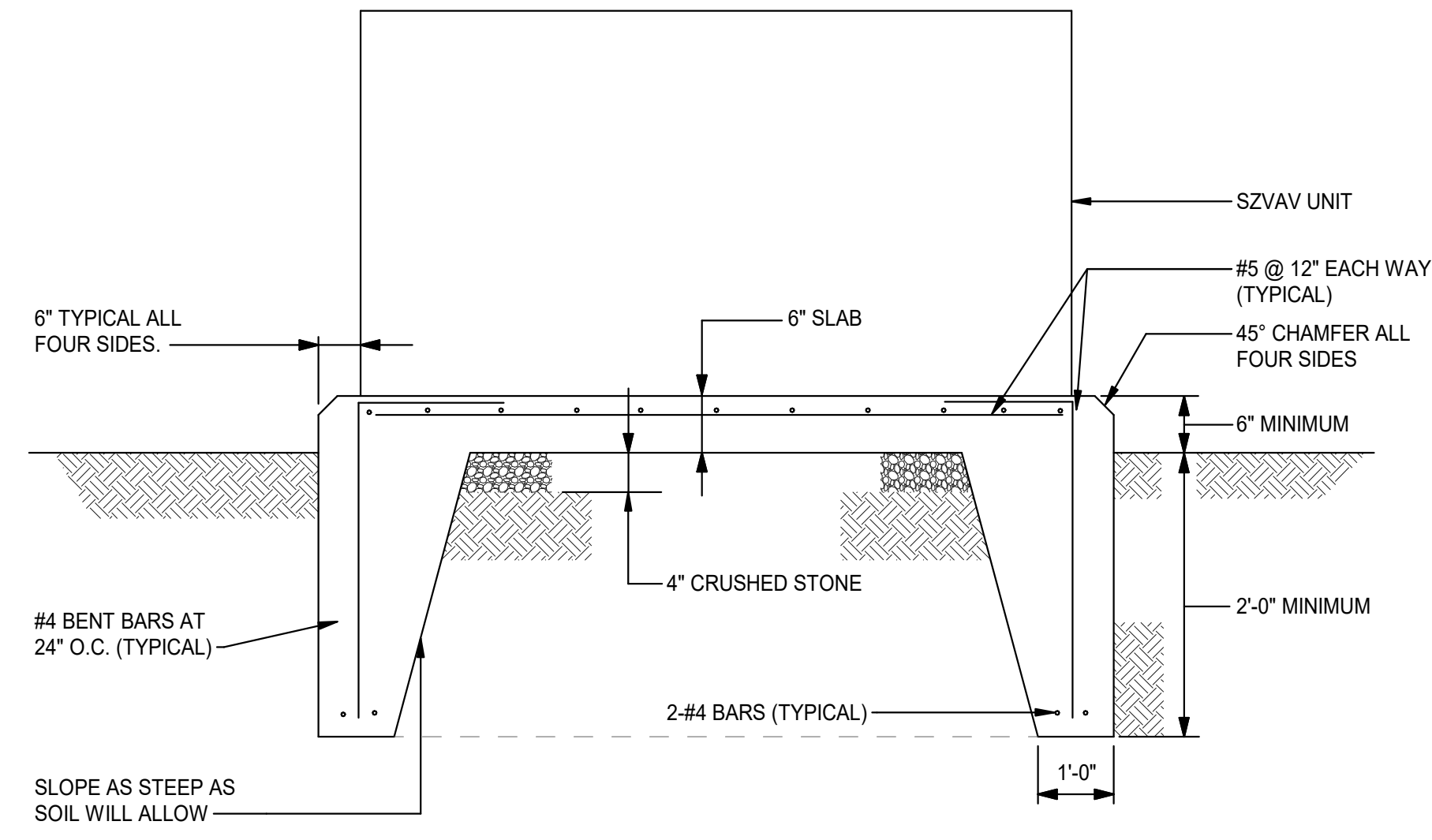
TRAP SIZING	
"H" MUST EQUAL 1 INCH PLUS CASING STATIC PRESSURE	
"X" = 1/2 "H"	
TOTAL TRAP HEIGHT = "X" + "H" + (1.5 x PIPE DIAMETER) + INSULATION THICKNESS	



* USE THIS METHOD WHENEVER DUCTS CAN BE GROUPED TOGETHER

MULTIPLE DUCT RUNS ON TRAPEZE HANGERS

- NOTE:
1. DUCTS SHALL BE SUPPORTED PER SMACNA STANDARDS



6 DETAIL - TYPICAL DRAW-THRU OR NEGATIVE PRESSURE A/C CONDENSATE DRAIN TRAP ASSEMBLY

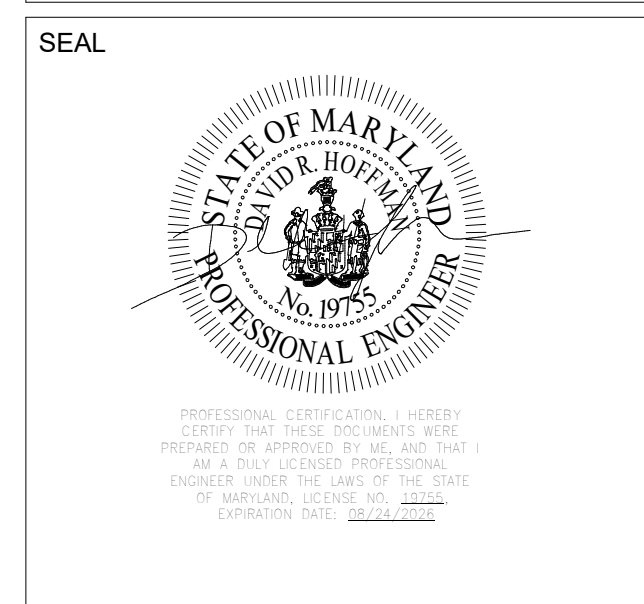
7 DETAIL - TYPICAL INSTALLATION OF HANGERS AND SUPPORTS FOR DUCTWORK

8 DETAIL - TYPICAL EXTERIOR EQUIPMENT PAD

Revision Schedule		
no.	date	comments

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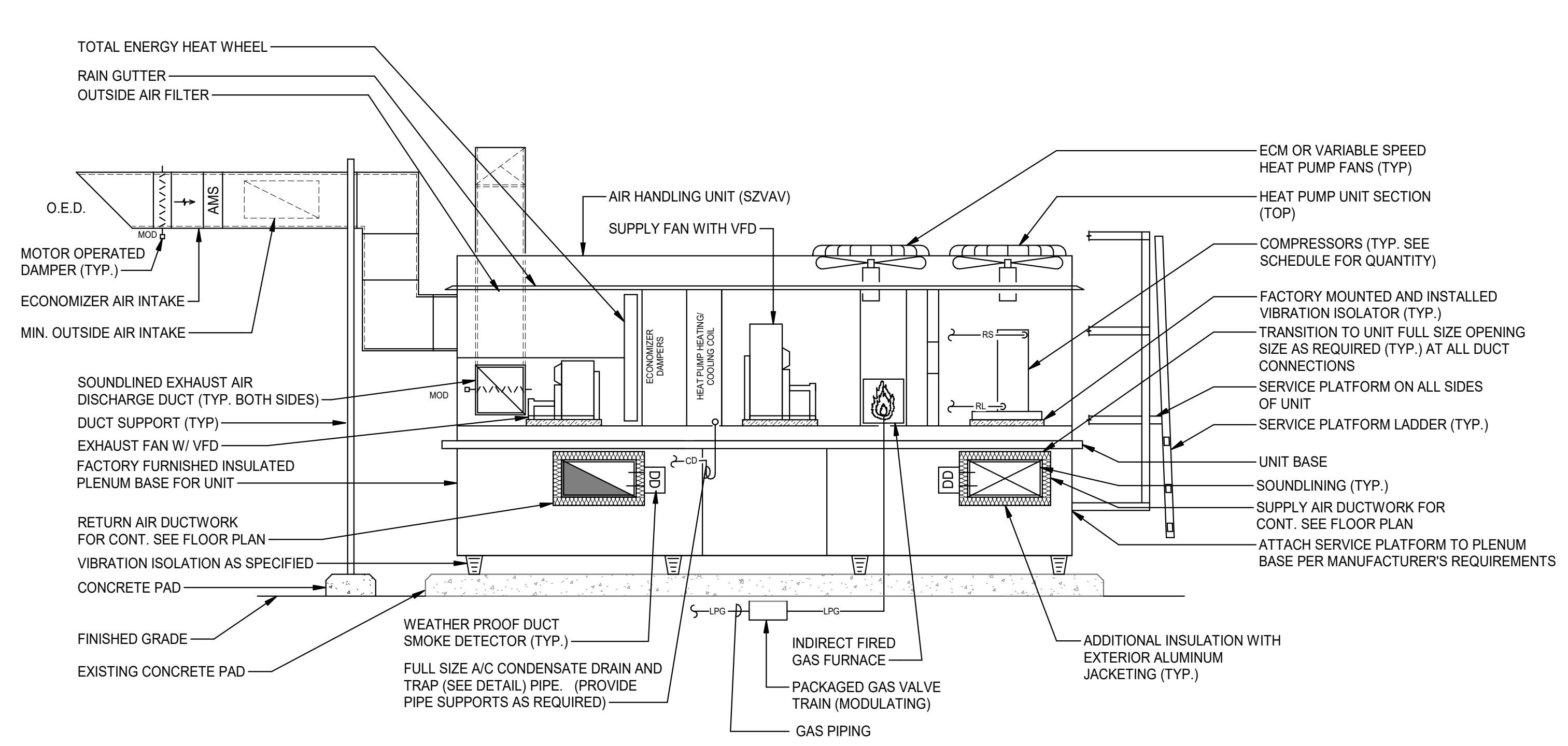
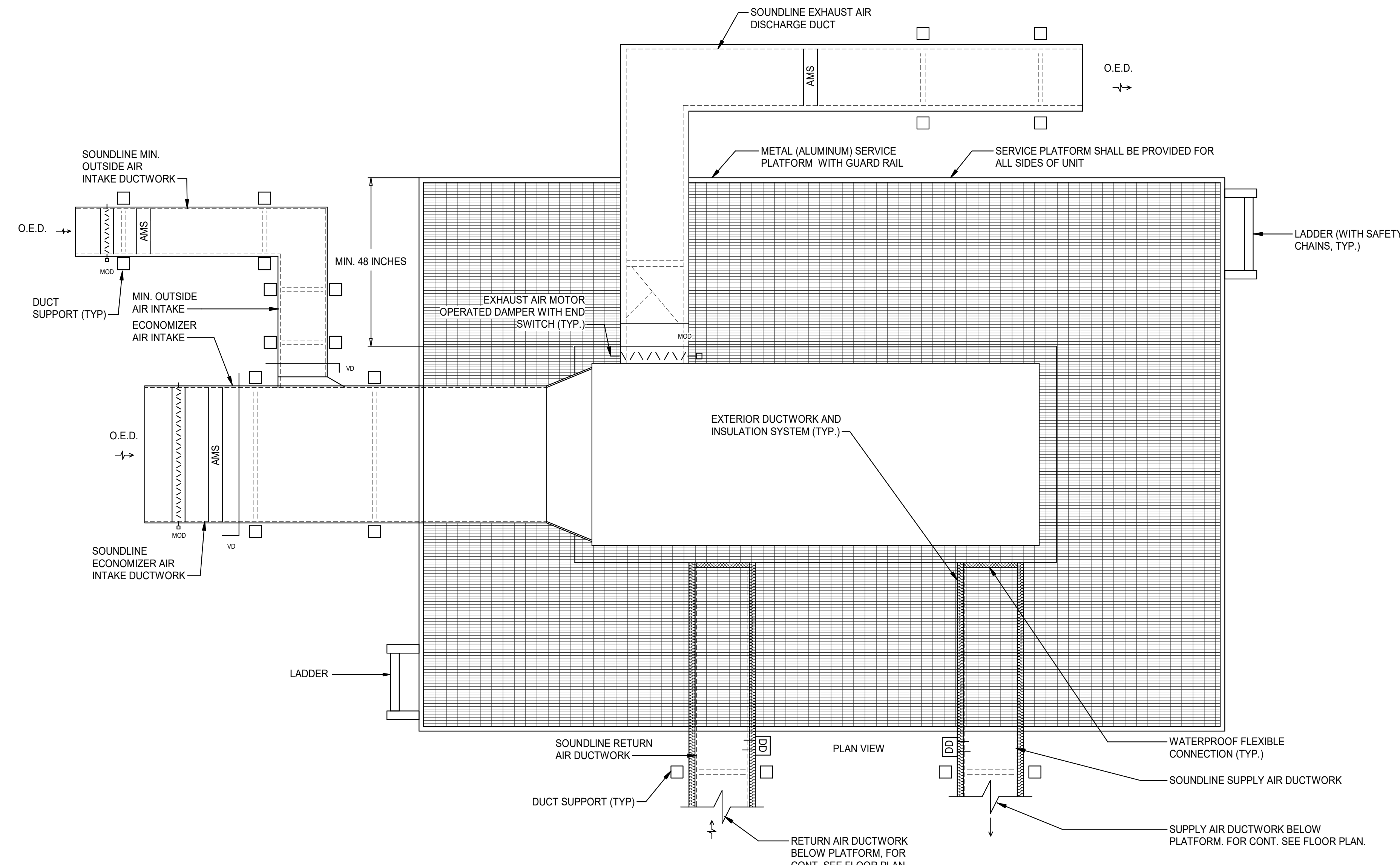
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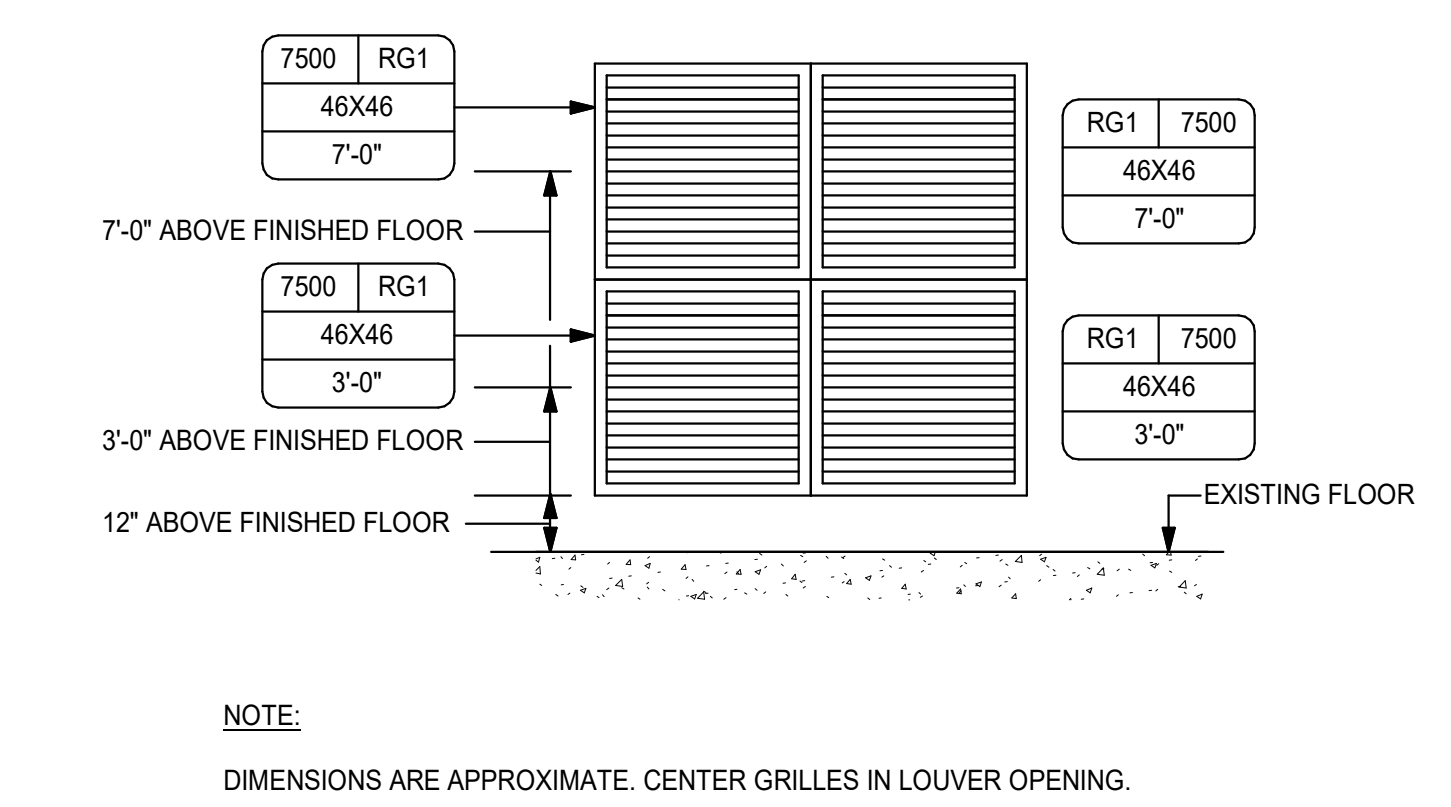
DETAILS - HVAC

DESIGNED BY	RAK
CHECKED BY	DRH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2026

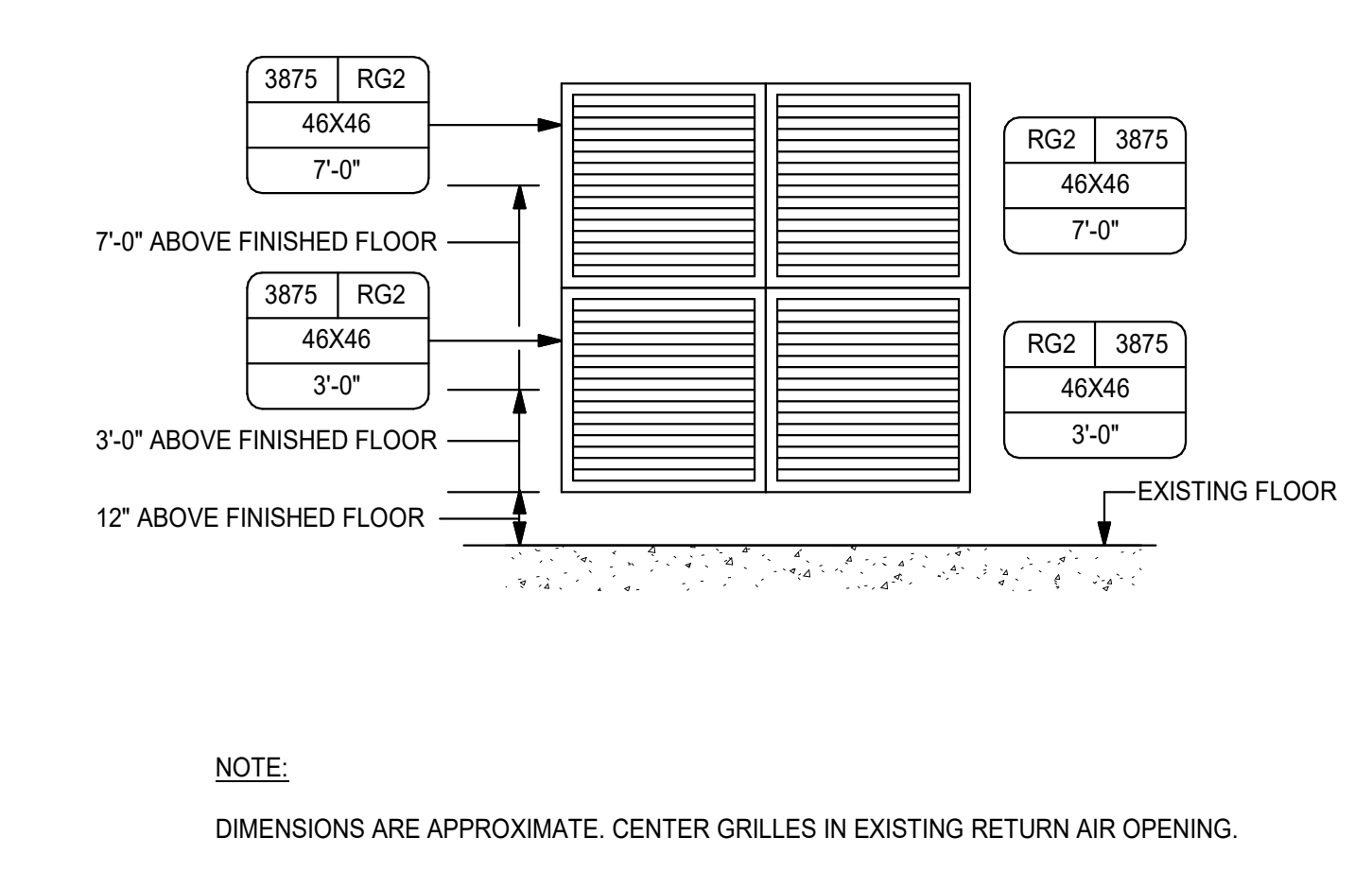
M302



- NOTES:
1. PROVIDE DUCT SMOKE DETECTORS ON SUPPLY AND RETURN DUCTS, SEE PLANS FOR LOCATION.
 2. PROVIDE WATER PROOF FLEXIBLE DUCT CONNECTIONS AT UNIT BASE.
 3. FURNISH AND INSTALL DUCT SUPPORTS.
 4. PROVIDE A MINIMUM OF 10 FEET OF SOUND LINING FOR SUPPLY AND RETURN DUCTS.
 5. INSTALL WATERPROOF FLEXIBLE DUCT CONNECTORS WHERE DUCTWORK ATTACHES TO UNIT.
 6. COORDINATE EXACT LOCATIONS FOR DUCT CONNECTIONS WITH FLOOR PLANS.
 7. COORDINATE SERVICE PLATFORM WITH SZAV UNIT.
 8. UNIT SERVICE PLATFORM SHALL BE SUPPORTED FROM PLENUM BASE.
 9. ALL EXTERIOR DUCTWORK SHALL BE INSULATED WITH EXTERIOR DUCT INSULATION SYSTEM. REFER TO DIVISION 23 SECTION "HVAC INSULATION".
 10. ALL EXTERIOR MOTOR OPERATED DAMPERS SHALL BE ENCLOSED IN WATERPROOF NEMA 3R ENCLOSURES.



2 DETAIL - TYPICAL SMOKE EVACUATION SYSTEM INTAKE



3 DETAIL - TYPICAL RETURN AIR GRILLE

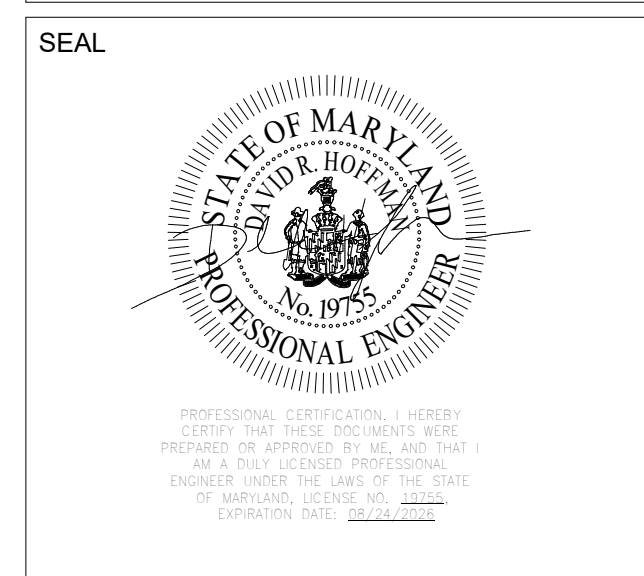
1 DETAIL - GRADE MOUNTED SINGLE ZONE VAV UNIT

Revision Schedule		
no.	date	comments

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DETAILS - HVAC

DESIGNED BY	RAK
CHECKED BY	DRH
SCALE	AS NOTED
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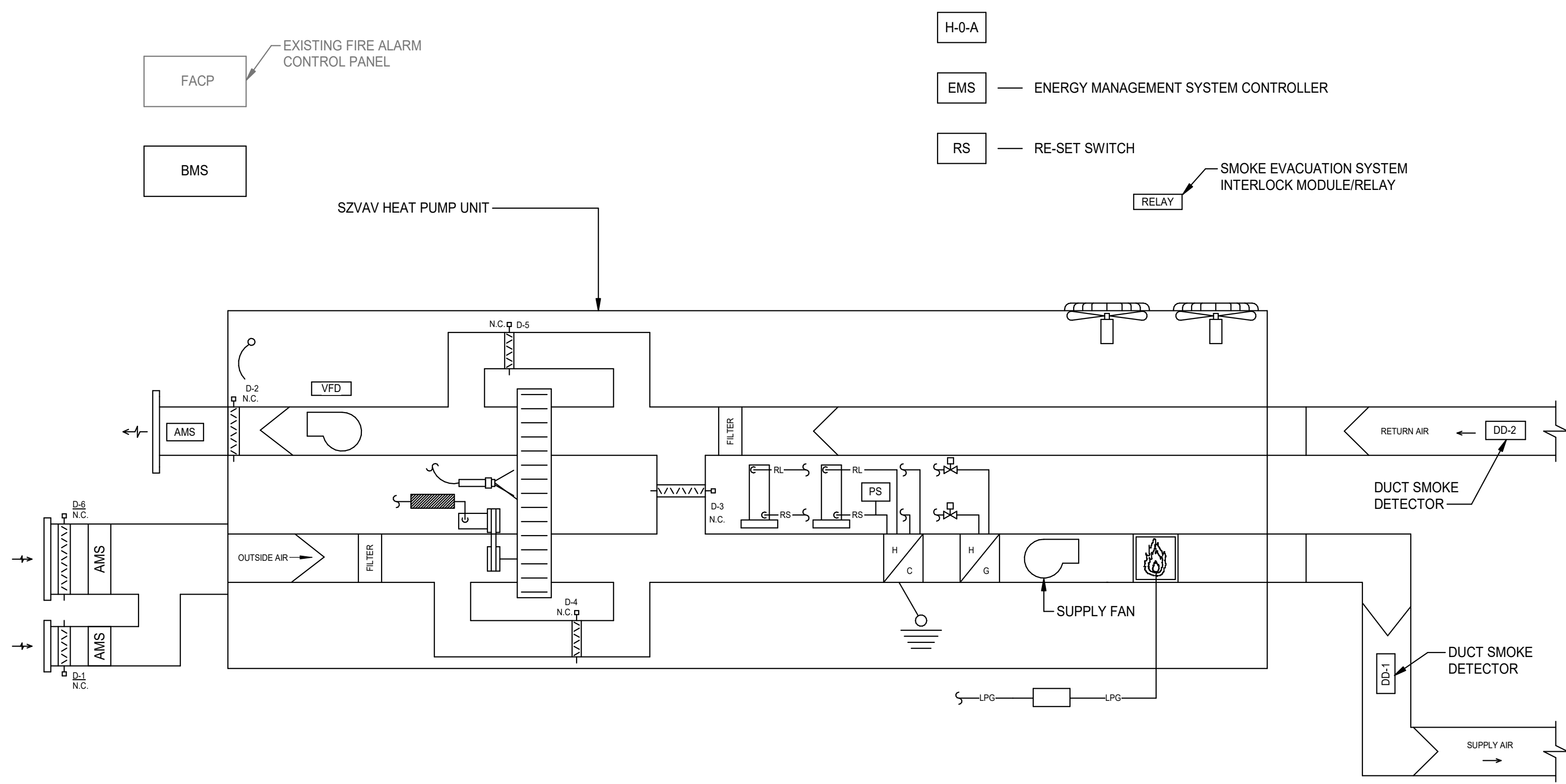
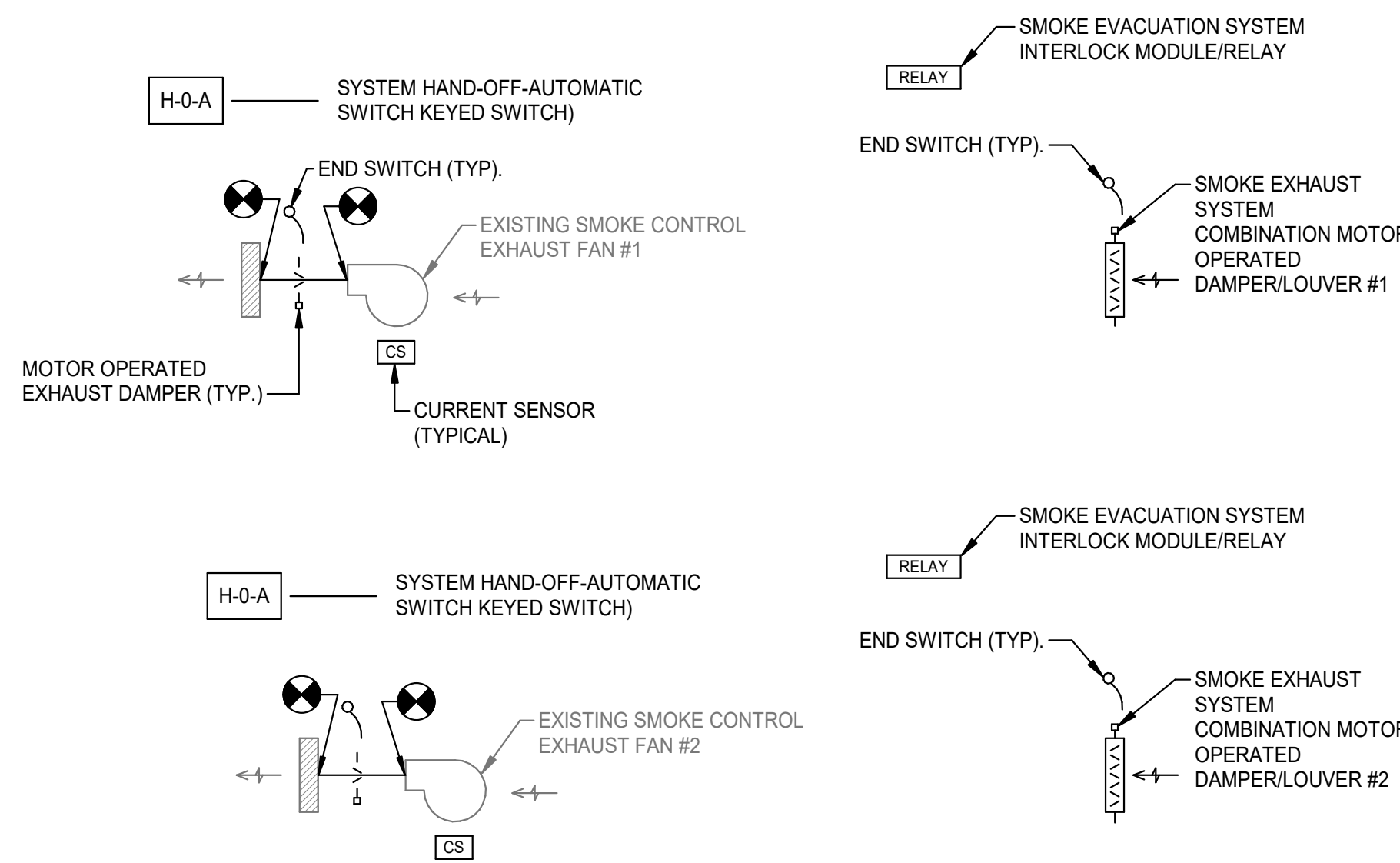
M303

ATC POINT LIST												
EQUIPMENT OR SYSTEM	START & STOP	H-O-A OR WALL SWITCH	POSITION INDICATOR	TWO POSITION DAMPERS WITH END SWITCH	COMBINATION DAMPER/LOUVER POSITION INDICATOR	RE-SET SWITCH	ENERGY MANAGEMENT SYSTEM CONTROLLER	DELAY TIMER	AIR FLOW - ALL FANS - CURRENT SENSOR	FIRE ALARM INITIATION DEVICE INTERLOCK	TOTAL RUN TIME	GRAPHIC DISPLAY
EXISTING MULTIPURPOSE/FITNESS AREA SMOKE EXHAUST FANS	•	•	•	•	•	•	•	•	•	•	•	•
SMOKE CONTROL SYSTEM COMBINATION INTAKE DAMPER/LOUVERS	•	•	•	•	•	•	•	•	•	•	•	•
SZAV HEAT PUMP UNITS	•	•	•	•	•	•	•	•	•	•	•	•

NOTES:

- PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SPECIFIED SEQUENCE OF OPERATION.
- ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.
- FOR SZAV HEAT PUMP UNITS THE ABOVE ATC REQUIREMENTS ARE IN ADDITION TO STANDARD TEMPERATURE CONTROL REQUIREMENTS.

- ### ATC CONTROL SEQUENCE
- A. GENERAL**
- ESTABLISH ALL INTERLOCK REQUIREMENTS, INITIATION DEVICE CONNECTIONS, AND INTERFACE REQUIREMENTS WITH EXISTING FIRE ALARM SYSTEM.
 - RE-ESTABLISH ALL EXISTING INTERLOCKS, EXISTING INITIATION DEVICE CONNECTIONS, AND EXISTING INTERFACES IMPACTED BY WORK PERFORMED UNDER THIS CONTRACT WITH EXISTING FIRE ALARM SYSTEM.
 - THE EXISTING MULTIPURPOSE/FITNESS AREA SMOKE CONTROL EXHAUST FANS SHALL BE PROVIDED WITH CURRENT SENSORS TO MONITOR FAN STATUS ON ATC SYSTEM.
 - FURNISH AND INSTALL DAMPER END SWITCHES THAT WILL NOT ALLOW THE EXISTING SMOKE CONTROL EXHAUST FANS TO ENERGIZE UNTIL DAMPER PROVES OPEN. MONITOR DAMPER POSITIONS.
 - ALL EQUIPMENT AND DEVICES SHALL BE SUPERVISED AND CONTROLLED BY ADDRESSABLE MONITOR MODULES AND RELAYS.
 - FURNISH AND INSTALL INTERLOCK MODULE/RELAYS AS REQUIRED FOR EXTERIOR DAMPER/LOUVERS AND SINGLE ZONE VAV HEAT PUMPS AS INDICATED.
 - THE MULTIPURPOSE/FITNESS AREA SMOKE EVACUATION SYSTEM SHALL BE ACTIVATED AUTOMATICALLY BY THE FIRE ALARM SYSTEM IF ANY TWO (2) SPACE SMOKE DETECTORS OR WATER FLOW SWITCH THAT SERVE THE MULTIPURPOSE/FITNESS AREA ACTIVATION SYSTEM SHALL INITIATE EVACUATION MODE.
 - IF H-O-A SWITCH IS MANUALLY INDICATED TO HAND THEN THE MULTIPURPOSE/FITNESS AREA SMOKE EVACUATION SYSTEM SHALL ENERGIZE AND OPERATE CONTINUOUSLY UNTIL H-O-A SWITCH IS EITHER PLACED "OFF" OR IN THE "AUTOMATIC" POSITION. PROVIDE INTERLOCK WIRING/RELAY THAT WILL OPEN MOTOR OPERATED DAMPER AUTOMATICALLY WHEN H-O-A SWITCH IS IN "HAND".
- B. ACTIVATION**
- WHEN SMOKE AT ANY TWO (2) SMOKE DETECTORS THAT SERVES THE MULTIPURPOSE/FITNESS AREA IS DETECTED OR WATER FLOW AT THE WATER FLOW SWITCH IS DETECTED THEN FIRE PROTECTION SYSTEM SHALL ACTIVATE THE MULTIPURPOSE/FITNESS AREA SMOKE EVACUATION SYSTEM.
 - THE COMBINATION DAMPER/LOUVERS (LOUVER #1 AND LOUVER #2) SHALL AUTOMATICALLY OPEN.
 - THE EXHAUST FAN MOTOR OPERATED DAMPERS SHALL ALL OPEN (TYP OF 2).
 - THE EXHAUST FAN END SWITCHES SHALL PROVE MOTOR OPERATED DAMPERS OPEN (TYP OF 2).
 - DELAY TIME SHALL EXPIRE. TIME DELAY SHALL BE SET FOR THE MAXIMUM TIME IT TAKES THE OPERATORS TO FULLY OPEN PLUS 10 SECONDS.
 - ONCE ALL DAMPER/LOUVERS ARE VERIFIED TO BE OPEN VIA END SWITCHES THEN ENERGIZE BOTH EXISTING MULTIPURPOSE/FITNESS AREA SMOKE EXHAUST FANS #1 AND #1.
 - SIMULTANEOUSLY, THE SZAV HEAT PUMPS #1 AND #2 SHALL DE-ENERGIZE.
- C. RESET**
- THE MULTIPURPOSE/FITNESS AREA SMOKE EVACUATION SYSTEM SHALL BE RE-SET BY A RE-SET SWITCH. SYSTEM SHALL NOT BE RE-SET UNTIL FIRE ALARM SYSTEM HAS BEEN RE-SET.
- D. TESTING**
- SYSTEM SHALL BE PERFORMANCE TESTED PER NFPA REQUIREMENTS AND PER STATE FIRE MARSHALL REQUIREMENTS. THESE REQUIREMENTS DO NOT UTILIZE SMOKE TESTING.



SINGLE ZONE VAV (SZAV) HEAT PUMP UNITS NO. 1 & 2

1 CONTROLS - MULTIPURPOSE/FITNESS AREA SMOKE EVACUATION SYSTEM

ATC CONTROL SEQUENCE

A. UPON ARRIVAL AT THE PROJECT SITE, FIRE DEPARTMENT SHALL ACCESS THE BUILDING TO DE-ACTIVATE SZAV-1 AND SZAV-2 VIA THE KEYED SWITCH.

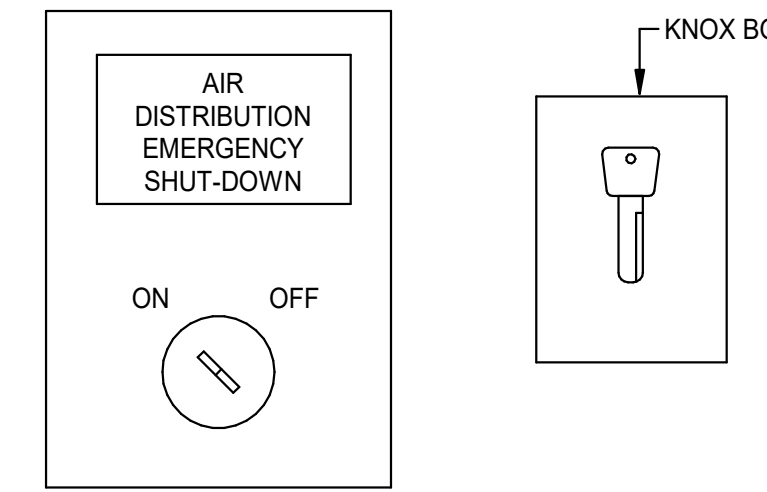
B. KEY FOR SWITCH SHALL BE LOCATED IN THE KNOX BOX AND LABELED AS "MULTI PURPOSE ROOM AIR DISTRIBUTION EQUIPMENT EMERGENCY SHUT-DOWN".

C. WHEN THE KEYED SWITCH IS TURNED TO "OFF" POSITION ALL AIR DISTRIBUTION EQUIPMENT WITHIN THE MULTI PURPOSE SHALL BE DE-ENERGIZED THROUGH BMS SOFTWARE INTERLOCK. AIR DISTRIBUTION EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO SZAV-1 AND SZAV-2.

D. WHEN THE KEYED SWITCH IS TURNED TO "OFF" POSITION ALL EQUIPMENT CONTROLLED BY KEYED SWITCH SHALL INDICATE EMERGENCY SHUT DOWN ACTIVATED ON THEIR INDIVIDUAL BMS GRAPHICS.

E. WHEN KEYED SWITCH IS RETURNED TO THE "ON" POSITION THE HVAC SEQUENCES SHALL RETURN TO BEING CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM.

F. MAKE PROVISION FOR FUTURE EXPANSION OF SWITCH OPERATION FOR EXISTING AND NEW SYSTEMS WHEN REQUIRED.



- NOTE:**
- PROVIDE A SINGLE SWITCH TO SHUT DOWN AIR DISTRIBUTION EQUIPMENT INDICATED (SZAV-1 AND SZAV-2)
 - INSTALL KEYED SWITCH AT MAIN ENTRANCE AS INDICATED ON THE FLOOR PLAN DRAWINGS.

ATC POINTS LIST

EQUIPMENT OR SYSTEM	GRAPHIC DISPLAY	SWITCH POSITION "ON OR OFF"	TREND DATA FOR SWITCH POSITION	EQUIPMENT STATUS
FIRE FIGHTERS EMERGENCY AIR DISTRIBUTION EQUIPMENT SHUT-DOWN SWITCH	•	•	•	•

NOTE:

- PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION.
- ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

2 CONTROLS - FIRE FIGHTERS EMERGENCY AIR HANDLING EQUIPMENT SHUT-DOWN SWITCH

ATC CONTROL SEQUENCE

A. UPON ARRIVAL AT THE PROJECT SITE, FIRE DEPARTMENT SHALL ACCESS THE BUILDING TO DE-ACTIVATE EXISTING EF-1 AND EXISTING EF-2 VIA THE KEYED SWITCH.

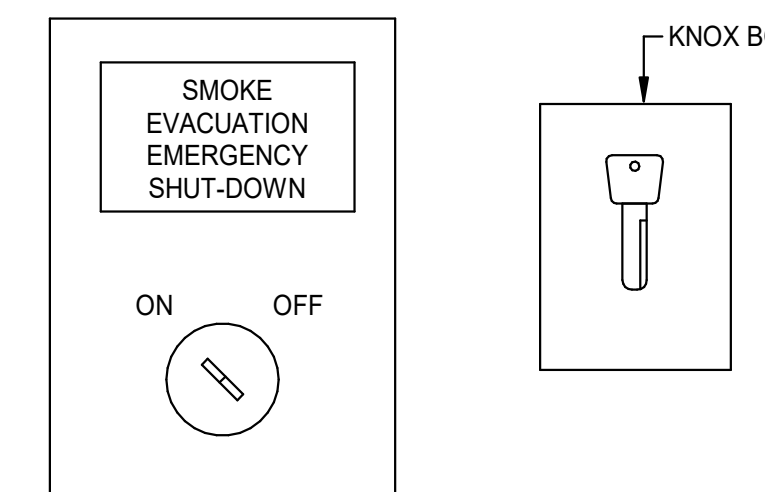
B. KEY FOR SWITCH SHALL BE LOCATED IN THE KNOX BOX AND LABELED AS "MULTI PURPOSE ROOM SMOKE EVACUATION EQUIPMENT EMERGENCY SHUT-DOWN".

C. WHEN THE KEYED SWITCH IS TURNED TO "OFF" POSITION ALL SMOKE EVACUATION EQUIPMENT WITHIN THE MULTI PURPOSE SHALL BE DE-ENERGIZED THROUGH BMS SOFTWARE INTERLOCK. SMOKE EVACUATION EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO EF-1 AND EF-2.

D. WHEN THE KEYED SWITCH IS TURNED TO "OFF" POSITION ALL EQUIPMENT CONTROLLED BY KEYED SWITCH SHALL INDICATE EMERGENCY SHUT DOWN ACTIVATED ON THEIR INDIVIDUAL BMS GRAPHICS.

E. WHEN KEYED SWITCH IS RETURNED TO THE "ON" POSITION THE SMOKE EVACUATION SEQUENCES SHALL RETURN TO BEING CONTROLLED BY THE BUILDING MANAGEMENT SYSTEM.

F. MAKE PROVISION FOR FUTURE EXPANSION OF SWITCH OPERATION FOR EXISTING AND NEW SYSTEMS WHEN REQUIRED.



- NOTE:**
- PROVIDE A SINGLE SWITCH TO SHUT DOWN SMOKE EVACUATION EQUIPMENT INDICATED (EXISTING EF-1 AND EXISTING EF-2)
 - INSTALL KEYED SWITCH AT MAIN ENTRANCE AS INDICATED ON THE FLOOR PLAN DRAWINGS.

ATC POINTS LIST

EQUIPMENT OR SYSTEM	GRAPHIC DISPLAY	SWITCH POSITION "ON OR OFF"	TREND DATA FOR SWITCH POSITION	EQUIPMENT STATUS
FIRE FIGHTERS EMERGENCY SMOKE EVACUATION EQUIPMENT SHUT-DOWN SWITCH	•	•	•	•

NOTE:

- PROVIDE ADDITIONAL DIGITAL POINTS AS NECESSARY TO ACCOMPLISH THE SEQUENCE OF OPERATION.
- ALL ITEMS IN THE POINTS LIST MUST BE VIEWABLE FROM THE OPERATOR'S TERMINAL.

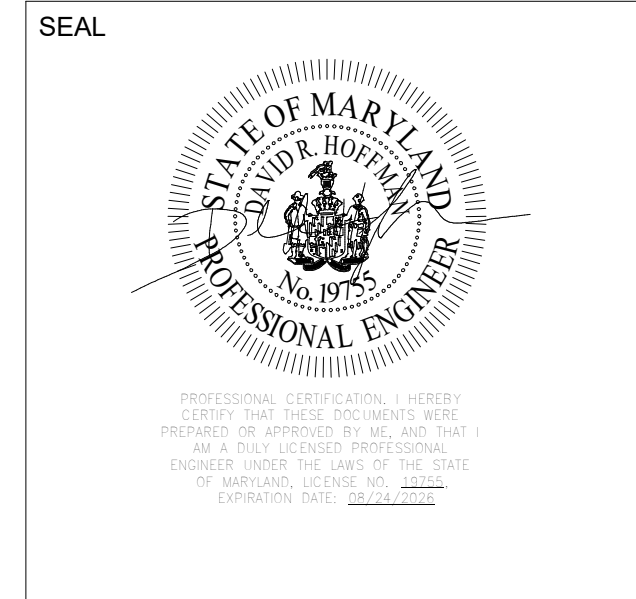
3 CONTROLS - FIRE FIGHTERS EMERGENCY SMOKE EVACUATION EQUIPMENT SHUT-DOWN SWITCH

Revision Schedule		
no.	date	comments

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BID DOCUMENTS

CONTROLS - HVAC

DESIGNED BY RAK
 CHECKED BY DRH
 SCALE AS NOTED
 JOB NO. 25092
 DATE 03/12/2026

M402

SINGLE ZONE VAV AIR HANDLING UNIT (SZVAV) SCHEDULE- PART 1																																													
UNIT #	SUPPLY FAN (VARIABLE SPEED DRIVES)										EXHAUST FAN (VARIABLE SPEED DRIVES)										ENERGY RECOVERY WHEEL PERFORMANCE								COOLING MODE				MECHANICAL HEATING MODE				MODULATING HOT GAS RE-HEAT COIL								
	TOTAL SUPPLY CFM		# OF FANS	OCCUPIED MODE		E.S.P. (IN. W.G.)	MAX RPM	MAX BHP	MOTOR HP	TOTAL CFM		# OF FANS	E.S.P. (IN. W.G.)	MAX RPM	MAX BHP	MOTOR HP	SUMMER				WINTER				TOTAL CAP. (MBH)	SENSIBLE CAP. (MBH)	P.D. (IN. W.C.)	E.A.T. DB (°F)	L.A.T. DB (°F)	TOTAL CAPACITY (MBH)	E.A.T. DB (°F)	L.A.T. DB (°F)	MAX APD (IN. H2O)	AMBIENT AIR TEMP. DB (°F)	SENSIBLE CAPACITY (MBH)										
	MAX	MIN		OUTSIDE AIR CFM	MIN					MAX	MIN						OUTSIDE DB (°F)	ROOM AIR DB (°F)	SUPPLY AIR DB (°F)	OUTSIDE WB (°F)	ROOM AIR WB (°F)	SUPPLY AIR WB (°F)	OUTSIDE %RH	ROOM AIR %RH												SUPPLY AIR %RH	OUTSIDE DB (°F)	ROOM AIR DB (°F)	SUPPLY AIR DB (°F)	OUTSIDE WB (°F)	ROOM AIR WB (°F)	SUPPLY AIR WB (°F)			
SZVAV-1	17,500	8,750	4	17,500	5,000	2,000	2.0	2,326	5.2	7	5,000	5,000	2,000	2	1.50	1,684	1.9	5	95	78	75	60	79.1	69.4	10	8	70	35	46.2	34.9	766.4	438.5	0.49	76.2	66.6	53	52	470.6	63.1	88	53	73	0.04	70	378
SZVAV-2	17,500	8,750	4	17,500	5,000	2,000	2.0	2,326	5.2	7	5,000	5,000	2,000	2	1.50	1,684	1.9	5	95	78	75	60	79.1	69.4	10	8	70	35	46.2	34.9	766.4	438.5	0.49	76.2	66.6	53	52	470.6	63.1	88	53	73	0.04	70	378

NOTES: 1. MOTOR DATA TYPICAL FOR QUANTITY OF FANS INDICATED IN SCHEDULE.
2. DURING FULL ECONOMIZER MODE THE MAX. OUTSIDE AIRFLOW SHALL BE TOTAL SUPPLY AIRFLOW.
3. MIN. OUTDOOR AND EXHAUST AIRFLOW IN UNOCCUPIED MODE SHALL BE 0 CFM.
4. DURING FULL ECONOMIZER ADDITIONAL SPACE MOUNTED RELIEF AIR LOUVER/DAMPER SHALL BE PROVIDED FOR ECONOMIZER RELIEF.
5. COOLING CAPACITY RATED AT 95 °F OUTSIDE AIR TEMPERATURE. HEATING CAPACITY RATED AT 10 °F OUTSIDE AIR TEMPERATURE.
6. GAS EFFICIENCY SHALL BE A MINIMUM OF 80%.
7. GAS BURNER SHALL BE CAPABLE OF OPERATION ON A MINIMUM GAS PRESSURE OF 11 INCHES W.C. AND A MAXIMUM GAS PRESSURE OF 14 INCHES W.C.
8. HOT GAS REHEAT COIL CAPACITY SHALL BE BASED ON SCHEDULED AMBIENT AIR TEMPERATURE.
9. DURING ECONOMIZER THE REMOTE RELIEF AIR LOUVER SHALL HANDLE THE EXCESS OUTSIDE AIR.

SINGLE ZONE VAV AIR HANDLING UNIT (SZVAV) SCHEDULE- PART 2																																	
UNIT #	HEATING PERFORMANCE										PACKAGED CONDENSING UNIT										ENERGY RECOVERY EFFICIENCY				AC CONDENSATE				ELECTRICAL CHARACTERISTICS				MAXIMUM WEIGHT (LBS.)
	TOTAL OUTPUT (MBH)	TOTAL INPUT (MBH)	E.A.T. DB (°F)	L.A.T. DB (°F)	FUEL TYPE	DIRECT OR INDIRECT FIRED	TURNDOWN RATIO	FUEL HEATING VALUE (BTU/FT ³)	MAX APD (IN. H2O)	GAS PIPING RUN-OUT SIZE (INCHES)	TYPE	# OF REFRIGERANT CIRCUITS	TOTAL CAPACITY (TONS)	NOMINAL CAPACITY (TONS)	COOLING EER (MIN.)	CAPACITY CONTROL	MINIMUM CAPACITY	OUTSIDE AIR WHEEL EFFICIENCY	INSIDE AIR WHEEL EFFICIENCY	SIZE (INCHES)	VOLTS	PHASE	FULL LOAD AMPS	MIN. CIRCUIT AMPS	MOCAP (AMPS)								
																										PROpane	INDIRECT	12:1	2.516	0.45	1-1/2"	4	
536.8	671	66.6	95	PROPANE	INDIRECT	12:1	2.516	0.45	1-1/2"	SCROLL	4	4	60	9.6	VARIABLE SPEED COMPRESSORS	25%	70	70	1-1/4"	480	3	178	184	225	26,900								
536.8	671	66.6	95	PROPANE	INDIRECT	12:1	2.516	0.45	1-1/2"	SCROLL	4	4	60	9.6	VARIABLE SPEED COMPRESSORS	25%	70	70	1-1/4"	480	3	178	184	225	26,900								

NOTES: 1. MOTOR DATA TYPICAL FOR QUANTITY OF FANS INDICATED IN SCHEDULE.
2. DURING FULL ECONOMIZER MODE THE MAX. OUTSIDE AIRFLOW SHALL BE TOTAL SUPPLY AIRFLOW.
3. MIN. OUTDOOR AND EXHAUST AIRFLOW IN UNOCCUPIED MODE SHALL BE 0 CFM.
4. DURING FULL ECONOMIZER ADDITIONAL SPACE MOUNTED RELIEF AIR LOUVER/DAMPER SHALL BE PROVIDED FOR ECONOMIZER RELIEF.
5. COOLING CAPACITY RATED AT 95 °F OUTSIDE AIR TEMPERATURE. HEATING CAPACITY RATED AT 10 °F OUTSIDE AIR TEMPERATURE.
6. GAS EFFICIENCY SHALL BE A MINIMUM OF 80%.
7. GAS BURNER SHALL BE CAPABLE OF OPERATION ON A MINIMUM GAS PRESSURE OF 11 INCHES W.C. AND A MAXIMUM GAS PRESSURE OF 14 INCHES W.C.
8. HOT GAS REHEAT COIL CAPACITY SHALL BE BASED ON SCHEDULED AMBIENT AIR TEMPERATURE.
9. DURING ECONOMIZER THE REMOTE RELIEF AIR LOUVER SHALL HANDLE THE EXCESS OUTSIDE AIR.

AIRFLOW MONITORING STATION (AMS)											
UNIT #	SERVICE	ELEC. CHAR. VOLTAGE	MAX. PRESSURE DROP (IN. W.C.)	TYPE	DUCT SIZE (IN. X IN.)	FAN ARRAY TYPE	MAX. AIRFLOW RATE (CFM)	MAX. DUCT WORK VELOCITY (FPM)	MIN. AIRFLOW RATE (CFM)	MIN. DUCT WORK VELOCITY (FPM)	REMARKS
AMS-1	SZVAV-1 (OUTSIDE AIR FLOW - ECONOMIZER)	24	0.085	THERMAL DISPERSION	42X36	---	12,500	1,190	5,250 (COOLING)	500	INTERLOCK WITH ATC SYSTEM
AMS-2	SZVAV-1 (OUTSIDE AIR FLOW - MINIMUM O.A.)	24	0.085	THERMAL DISPERSION	26X24	---	5,000	1,154	2,000	462	INTERLOCK WITH ATC SYSTEM
AMS-3	SZVAV-1 (EXHAUST AIR FLOW)	24	0.085	THERMAL DISPERSION	26X24	---	5,000	1,154	2,000	462	INTERLOCK WITH ATC SYSTEM
AMS-4	SZVAV-2 (OUTSIDE AIR FLOW - ECONOMIZER)	24	0.085	THERMAL DISPERSION	42X36	---	12,500	1,190	5,250 (COOLING)	500	INTERLOCK WITH ATC SYSTEM
AMS-5	SZVAV-2 (OUTSIDE AIR FLOW - MINIMUM O.A.)	24	0.085	THERMAL DISPERSION	26X24	---	5,000	1,154	2,000	462	INTERLOCK WITH ATC SYSTEM
AMS-6	SZVAV-2 (EXHAUST AIR FLOW)	24	0.085	THERMAL DISPERSION	26X24	---	5,000	1,154	2,000	462	INTERLOCK WITH ATC SYSTEM

NOTES: 1. COORDINATE ELECTRICAL CONNECTION OF DISPLAY MODULE AND AIRFLOW MONITORING SYSTEM WITH ATC SYSTEM.
2. FURNISH AND INSTALL CFM DISPLAY MODULE FOR EACH AIR FLOW MONITORING STATION.

GAS PRESSURE REGULATOR SCHEDULE						
GAS REGULATOR NO.	GAS TYPE	CAPACITY (SCFH)	CAPACITY (MBH)	INLET PRESSURE (PSIG)	OUTLET PRESSURE SETPOINT (INCHES W.C.)	REMARKS
1	LP-GAS	267	671	10	14	SZVAV-1
2	LP-GAS	267	671	10	14	SZVAV-2
3	LP-GAS	140	350	10	14	EXISTING HVAC UNIT

AUTOMATIC TEMPERATURE CONTROL PANEL SCHEDULE (ATC)			
UNIT #	SYSTEM/EQUIPMENT SERVED	ELECTRICAL CHARACTERISTICS VOLTAGE/PHASE/HERTZ	REMARKS
ATC PANEL-1	SZVAV #1& SZVAV-2; SMOKE EVACUATION CONTROLS	120/1/60	

NOTES: 1. ATC SUBCONTRACTOR SHALL PROVIDE ADDITIONAL PANELS AND POWER WIRING IF REQUIRED.
2. PROVIDE DATA CONDUIT AND BACK BOX. COORDINATE DATA CABLE AND OUTLET WITH OWNER.
3. SIZE OF ATC PANEL SHALL BE COORDINATED BASED ON QUANTITY OF CONTROLLERS INSTALLED WITHIN THE SAME.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE		
ID	DESCRIPTION	REMARKS
RG1	LOUVERED GRILLE	STEEL - HEAVY DUTY
RG2	LOUVERED FILTER GRILLE	STEEL - HEAVY DUTY

LOUVER SCHEDULE							
ITEM	NOMINAL SIZE WxH (INCHES)	UNIT(S) SERVED	SERVICE	MIN. FREE AREA (FT ²)	MAX. STATIC PRESSURE (IN. W.G.)	TOTAL AIR FLOW (CFM)	REMARKS
LOUVER-1	96X96	EXISTING EF-1	INTAKE	32.51	0.106	30,000	COMBINATION DAMPER/LOUVER
LOUVER-2	96X96	EXISTING EF-2	INTAKE	32.51	0.106	30,000	COMBINATION DAMPER/LOUVER
LOUVER-3	72X72	SZVAV-1	RELIEF	19.22	0.128	12,500	
LOUVER-4	72X72	SZVAV-2	RELIEF	19.22	128	12,500	

NOTES: 1. EXTRUDED ALUMINUM WITH BAKED ENAMEL FINISH, COLOR AS SELECTED BY OWNER.
2. PROVIDE ALUMINUM BIRD SCREEN WITH 1/4" OPENINGS.
3. DRAINABLE BLADES WITH ZERO WATER PENETRATION AT 1,000 FPM VELOCITY.

RE-BALANCE OF EXISTING AIR SIDE EQUIPMENT				
EQUIPMENT	SERVICE	EXISTING CFM	NEW REQUIRED CFM	REMARKS
EF-1	SMOKE EVACUATION	30,000	30,000	GREENHECK MODEL SBE-2H60-30
EF-2	SMOKE EVACUATION	30,000	30,000	GREENHECK MODEL SBE-2H60-30

DUCT SMOKE DETECTOR SCHEDULE			
UNIT #	UNIT SERVED	ELECTRICAL CHARACTERISTICS	REMARKS
DD-1	SZVAV-1	REFER TO DIVISION 28	SUPPLY
DD-2	SZVAV-1	REFER TO DIVISION 28	RETURN
DD-3	SZVAV-2	REFER TO DIVISION 28	SUPPLY
DD-4	SZVAV-2	REFER TO DIVISION 28	RETURN

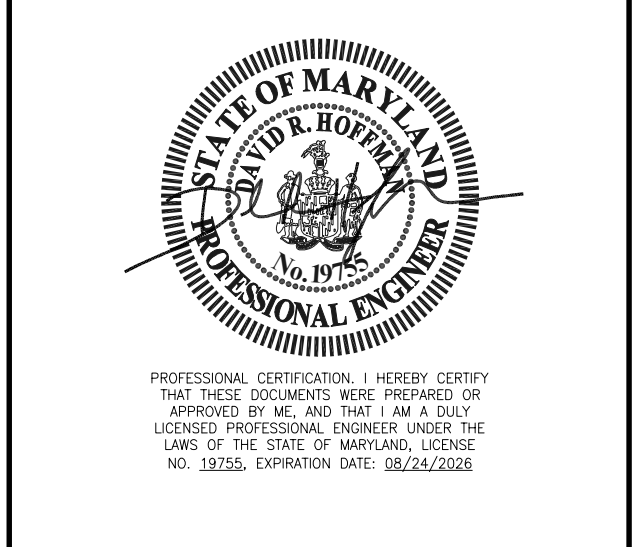
NOTE: FURNISH UNDER DIVISION 28, INSTALLED UNDER DIVISION 23.

REVISIONS		
no.	date	comments

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WORCESTER COUNTY RECREATION CENTER
HVAC SYSTEM REPLACEMENTS

6030 PUBLIC LANDING RD,
SNOW HILL, MD 21863

SUBMISSION

BID DOCUMENTS

SCHEDULES
HVAC

DESIGNED BY RAK
CHECKED BY DRH
SCALE AS NOTED
JOB NO. 25092
DATE 03/12/2028

M501

ELECTRICAL ABBREVIATIONS			
ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
A	AMPERES	L	LENGTH
AC	AIR CONDITIONER	LAN	LOCAL AREA NETWORK
AC	ALTERNATING CURRENT	LB	POUNDS
ADA	AMERICANS WITH DISABILITIES ACT	LBS	POUNDS
AF	AMPERE FEEDER	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
AF-CI	ARC FAULT CIRCUIT INTERRUPTER	LYS	LIGHTS
AFF	ABOVE FINISHED FLOOR	LTS	LIGHTS
AFG	ABOVE FINISHED GRADE	LV	LOW VOLTAGE
AG	AGRICULTURE	MA	MILLIAMPERES
AH	ALLIED HEALTH	MAX	MAXIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MC	METAL CLAD
AIC	AMPERE INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
AL	ALUMINUM	MCCB	MOLDED CASE CIRCUIT BREAKER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MD	MARYLAND
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MDF	MAIN DISTRIBUTION PANELBOARD
AT	AMPERE TRIP	MIECH	MECHANICAL
ATC	AUTOMATIC TEMPERATURE CONTROL	MISNY	MISCELLANEOUS
AWG	AMERICAN WIRE GAUGE	MH	MOUNTING HEIGHT
BL	BASIC INSULATION LEVEL	MIN	MINIMUM
BKR	BREAKER	MLO	MAIN LUGS ONLY
BMS	BUILDING MANAGEMENT SYSTEM	MM	MILLIMETER
C	CONDUIT	MYD	MOUNTED
CAT	CATEGORY	MULTI	MULTIPLE
CB	CIRCUIT BREAKER	N	NEUTRAL, NORMAL, NORTH
CKT	CIRCUIT	N.C.	NORMALLY CLOSED
CL	CENTRAL LINE	NEC	NATIONAL ELECTRICAL CODE
CMU	CONCRETE MASONRY UNIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CNTRL	CONTROL	NF	NON-FUSED
COMBO	COMBINATION	NFPA	NATIONAL FIRE PROTECTION
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
CU	COPPER	NM	NON-METALLIC
D	DEPTH	N.O.	NORMALLY OPEN
dB	DECIBEL (A SCALE)	NS	NUMBER
DC	DIRECT CURRENT	NTS	NOT TO SCALE
DIAM	DIAMETER	O.C.	ON CENTER
DIV	DIVISION	OS	OCCUPANCY SENSOR
DN	DOWN	OSHA	OCCUPATIONAL SAFETY AND HEALTH
DPST	DOUBLE-POLE DOUBLE-THROW	P	ADMINISTRATION
DWGS	DRAWING	PF	POWER FACTOR
EC	ELECTRICAL CONTRACTOR	PH	PHASE
EC	EMPTY CONDUIT	PNL	PANEL
EFF	EFFICIENCY	PSI	POUNDS PER SQUARE INCH
EG	EXAMPLE GIVEN	PSY	POLYESTER
EGS	ELECTRIC GROUNDING BUSBAR	PVC	POLYVINYL CHLORIDE
ELEC	ELECTRIC	PWR	POWER
EMT	ELECTRICAL METALLIC TUBING	QTY	QUANTITY
EPA	ENVIRONMENTAL PROTECTION AGENCY	RCPT	RECEPTACLE(S)
EQ	EQUAL	RGS	RIGID GALVANIZED STEEL
EQUIP	EQUIPMENT	RMS	ROOT MEAN SQUARE
ETC	ET CETERA	RNC	RIGID NONMETALLIC CONDUIT
ETR	EXISTING TO REMAIN	SCCR	SHORT CIRCUIT CURRENT RATINGS
EXEIST	EXISTING	SMR	SURFACE METAL RACEWAY
EXT	EXTERIOR	SPO	SURGE PROTECTIVE DEVICE
F	FUSED	SS	STAINLESS STEEL
FA	FIRE ALARM	SW	SWITCH, SOUTHWEST
FAAP	FIRE ALARM ANNUNCIATOR PANEL	T	TELEPHONE, TRANSFORMER
FACP	FIRE ALARM CONTROL PANEL	TBD	TO BE DETERMINED
FLOOR	FLOOR	TC	TELECOMMUNICATIONS CLOSET
FM	FIRE MARSHAL	TEL/TELE	TELEPHONE
FMC	FLEXIBLE METAL CONDUIT	TEMP	TEMPORARY TEMPERATURE
FREQ	FREQUENCY	TER	TELECOMMUNICATIONS EQUIPMENT ROOM
FT	FEET	TR	TAMPER RESISTANT
G	GROUND (GFCI)	TR	TYPICAL
GBB	GROUNDING BUSBAR	UG	UNDERGROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	U.O.N.	UNLESS OTHERWISE NOTED
GFI	GROUND FAULT INTERRUPTER	V	VOLTS
GND	GROUND	VA	VOLT-AMPERES
GRD	GROUND	VF	VENTILATION FAN
GY	GROUNDING WIRE	VB	BY THE WAY OF
H	HEIGHT, HORIZONTAL	VR	VOLTAGE REGULATOR
HDPE	HIGH DENSITY POLYETHYLENE	W	WIRE, WIDTH, WEST
HOA	HAND-OFF-AUTOMATIC	W	WITH
HP	HORSEPOWER/HEAT PUMP	WG	WIREGUARD
HVAC	HEATING VENTILATION AIR CONDITIONING	WO	WORK ORDER
HZ	HERTZ	WP	WEATHERPROOF
ID	IDENTIFICATION	WR	WEATHER RESISTANT
IDF	INTERMEDIATE DISTRIBUTION FRAME	XFMR	TRANSFORMER
IE	THAT IS	Y	WYE
IES/ESNA	ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA	Z	IMPEDANCE
ISOL	ISOLATED	Δ	DELTA
IT/IT	INFORMATION TECHNOLOGY	YR	YEAR
JB	JUNCTION BOX	©	COPYRIGHT
K	KELVIN	%	PERCENT
K	KELVIN	'	FEET
K	KELVIN	+	INCHES
KCMIL	THOUSAND CIRCULAR MILS	+	PLUS OR MINUS
KV	KILOVOLT	ø	PHASE
KVA	KILOVOLT-AMPERES	&	AND
KW	KILOWATTS	#	NUMBER
KWH	KILOWATT HOURS		

GENERAL ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	BRANCH CIRCUIT CONCEALED ABOVE CEILING WITH (2) 12 AWG + (1) 12 AWG GROUND IN 3/4\"/>
	BRANCH CIRCUIT CONCEALED IN OR UNDER FLOOR SLAB WITH (2) 12 AWG + (1) 12 AWG GROUND IN 3/4\"/>
	LOW VOLTAGE WIRING
	HOMERUN TO PANELBOARD - SINGLE CIRCUIT - LETTERS INDICATE PANELBOARD DESIGNATION AND NUMBER INDICATES CIRCUIT DESIGNATION, WITH (1) PHASE + (1) NEUTRAL + (1) GROUNDING CONDUCTOR IN 3/4\"/>
	HOMERUN TO PANELBOARD - TWO-POLE CIRCUIT, THREE-POLE CIRCUIT - LETTERS INDICATE PANELBOARD DESIGNATION AND NUMBERS INDICATE CIRCUIT DESIGNATION, WITH (1) PHASE CONDUCTOR PER POLE + (1) GROUNDING CONDUCTOR IN 3/4\"/>
	HOMERUN TO PANELBOARD - MULTIPLE CIRCUITS - NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS, LETTERS INDICATE PANELBOARD DESIGNATION, WITH (1) PHASE + (1) NEUTRAL + (1) GROUNDING CONDUCTOR IN 3/4\"/>
	EQUIPMENT CONNECTION
	CONDUIT UP
	CONDUIT DOWN
	JUNCTION BOX
	ENCLOSURE OR CABINET AS NOTED
	DRAWING NOTE - NEW WORK
	DRAWING NOTE - DEMOLITION
	PART PLAN NO. DRAWING NO.
	VIEW DIRECTION SECTION NO. DRAWING NO.
	VIEW DIRECTION ELEVATION NO. DRAWING NO.

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

WIRE SIZE TABLE						
HOME RUN LENGTH AND WIRE SIZE			CIRCUIT LENGTH AND WIRE SIZE			
120 VOLT		277 VOLT	120 VOLT		277 VOLT	
0 - 60'	12 AWG	0 - 175'	12 AWG	0 - 100'	12 AWG	12 AWG
60 - 100'	10 AWG	175 - 350'	10 AWG	100' & UP	10 AWG	10 AWG
100' & UP	8 AWG	350' & UP	8 AWG			

CONDUCTOR DE-RATING SCHEDULE		
CIRCUIT BREAKER AMPACITY RATING	CONDUCTOR SIZE (AWG)	
	NO MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS IN A CABLE OR RACEWAY	NO MORE THAN TWENTY (20) CURRENT CARRYING CONDUCTORS IN A CABLE OR RACEWAY
15	12 AWG	12 AWG
20	12 AWG	10 AWG
30	10 AWG	8 AWG
40	8 AWG	6 AWG
50	6 AWG	4 AWG
60	6 AWG	3 AWG

POWER LEGEND	
SYMBOL	DESCRIPTION
	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - M.H. 18\"/>
	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - GFCI TYPE - M.H. 18\"/>
	TAMPER-RESISTANT DUPLEX, DOUBLE DUPLEX RECEPTACLE - WEATHER-RESISTANT GFCI TYPE WITH WEATHERPROOF WHILE-IN-USE COVER - M.H. 18\"/>
	PANELBOARD - 277/480V - SURFACE-MOUNTED, FLUSH-MOUNTED, TOP 6\"/>
	PANELBOARD - 120/208V - SURFACE-MOUNTED, FLUSH-MOUNTED, TOP 6\"/>
	ENCLOSURE OR CABINET AS NOTED
	SAFETY SWITCH - FUSED, NON-FUSED - 30A, 3 POLE, 600V, NEMA 1 U.O.N. - TOP 5\"/>
	TOGGLE SWITCH - SINGLE POLE, TWO POLE - HORSEPOWER RATED, WITH LOCKABLE HANDLE GUARD COVERPLATE - M.H. 42\"/>
	MANUAL MOTOR SWITCH - TWO POLE, THREE POLE - 30A, 600VAC, WITH LOCKABLE HANDLE GUARD COVERPLATE - M.H. 42\"/>
	AUTOMATIC TEMPERATURE CONTROL PANEL
	MOTOR OPERATED DAMPER
	MOTOR - GENERIC - REFER TO FLOOR PLANS FOR MOTOR DESIGNATION

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

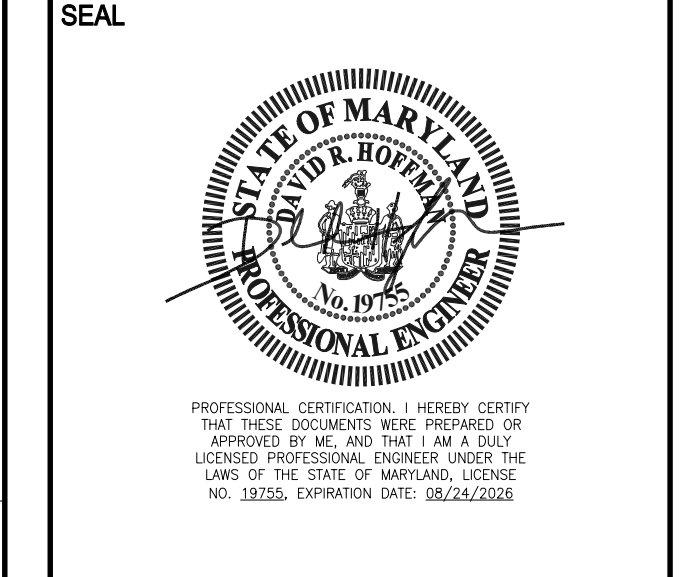
FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM - CONTROL PANEL - SURFACE-MOUNTED, FLUSH-MOUNTED - TOP 5\"/>
	FIRE ALARM SYSTEM - NAC PANEL - SURFACE-MOUNTED, FLUSH-MOUNTED - TOP 5\"/>
	FIRE ALARM - MANUAL PULL STATION - STANDARD, WITH VANDAL SHIELD - M.H. 42\"/>
	FIRE ALARM - MANUAL PULL STATION M.H. 42\"/>
	FIRE ALARM SYSTEM - VISUAL STROBE - WALL-MOUNTED 7\"/>
	FIRE ALARM SYSTEM - CARBON MONOXIDE DETECTOR - CEILING MOUNTED, WALL MOUNTED 18\"/>
	FIRE ALARM SYSTEM - AUDIO/VISUAL STROBE - WALL-MOUNTED 7\"/>
	FIRE ALARM SYSTEM - ADDRESSABLE INTERFACE MODULE - DUCT DETECTOR - M.H. 42\"/>
	FIRE ALARM SYSTEM - DUCT DETECTOR - STANDARD, WEATHERPROOF
	FIRE ALARM SYSTEM - DUCT DETECTOR REMOTE TEST STATION - CEILING MOUNTED, WALL MOUNTED 42\"/>

NOTE:
1. NOT ALL ITEMS WITHIN LEGEND MAY BE UTILIZED ON THIS PROJECT.

REVISIONS		
no.	date	comments

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SUBMISSION

BID DOCUMENTS

LEGEND AND ABBREVIATIONS ELECTRICAL

DESIGNED BY	TMC
CHECKED BY	CDH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2026

E001

1 2 3 4 5 6 7 8 9 0

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

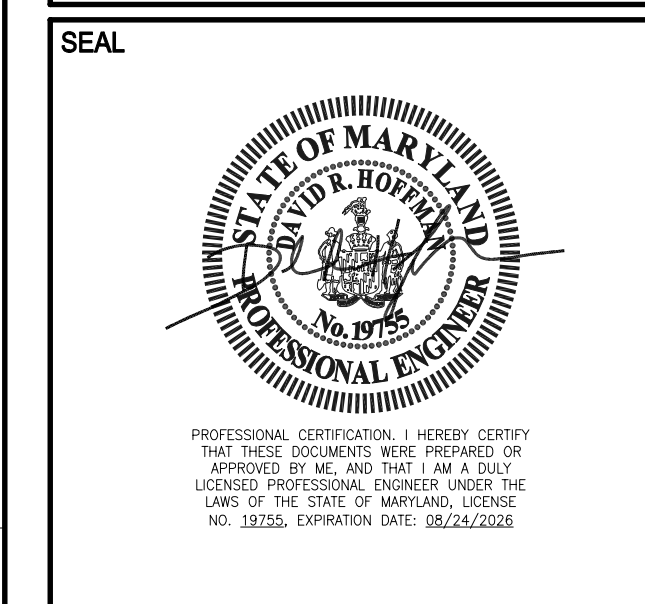
1 REFER TO DRAWING E501 FOR DEMOLITION WORK AFFECTING PANELBOARD.

no.	date	comments

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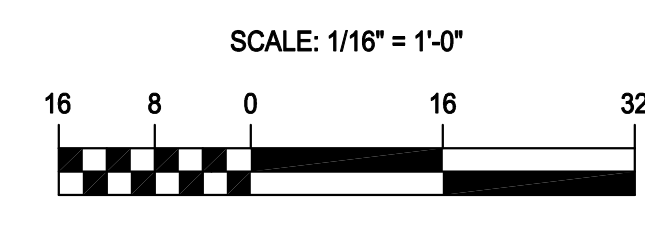
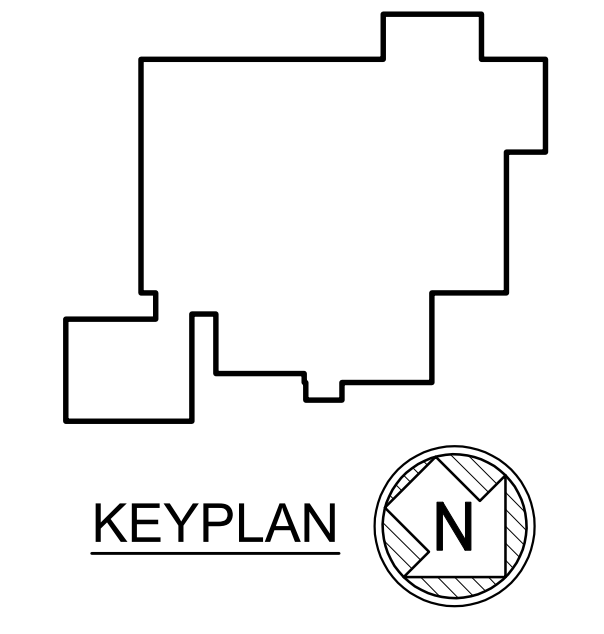
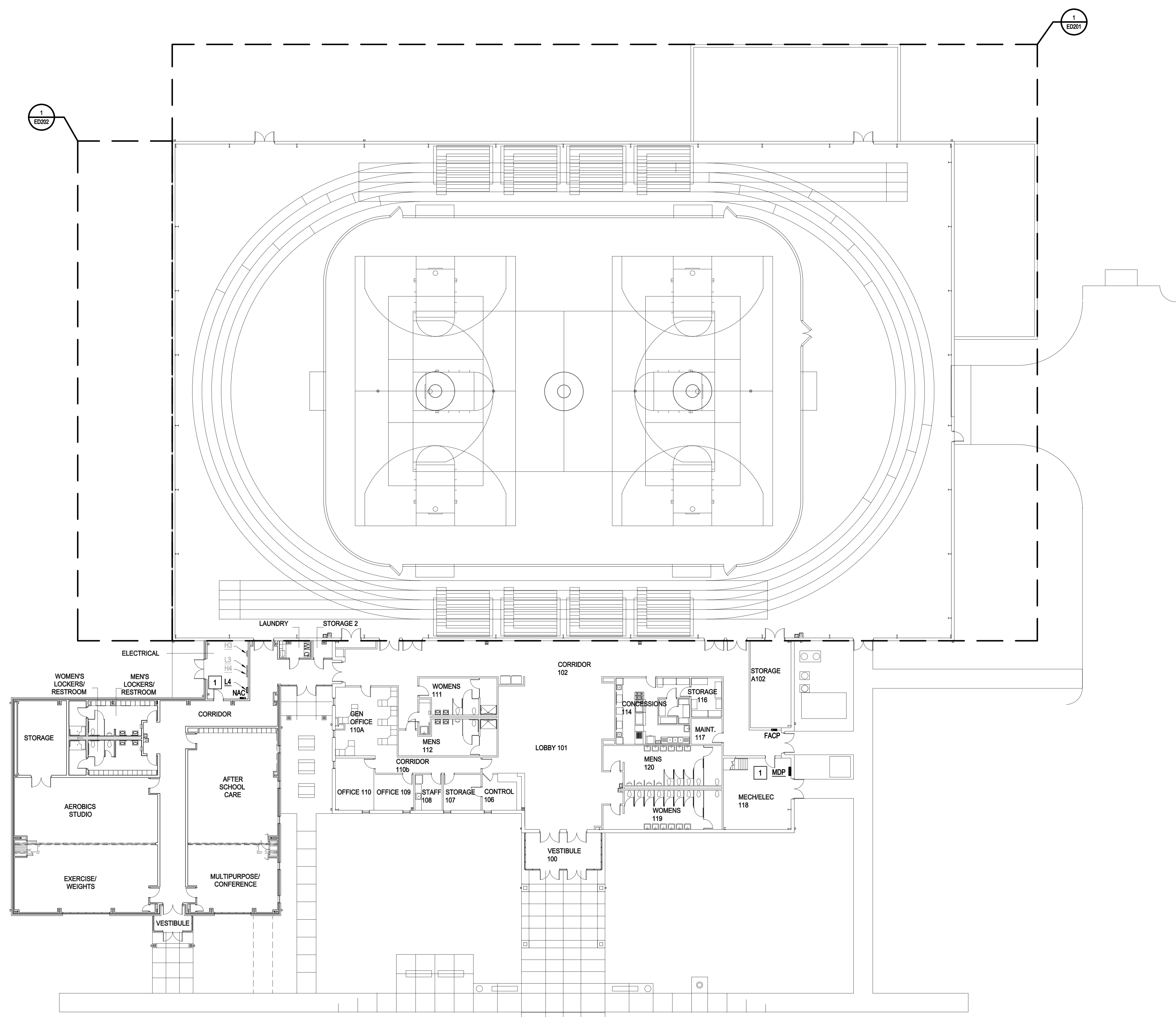
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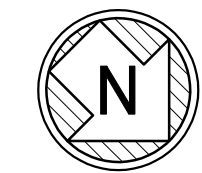
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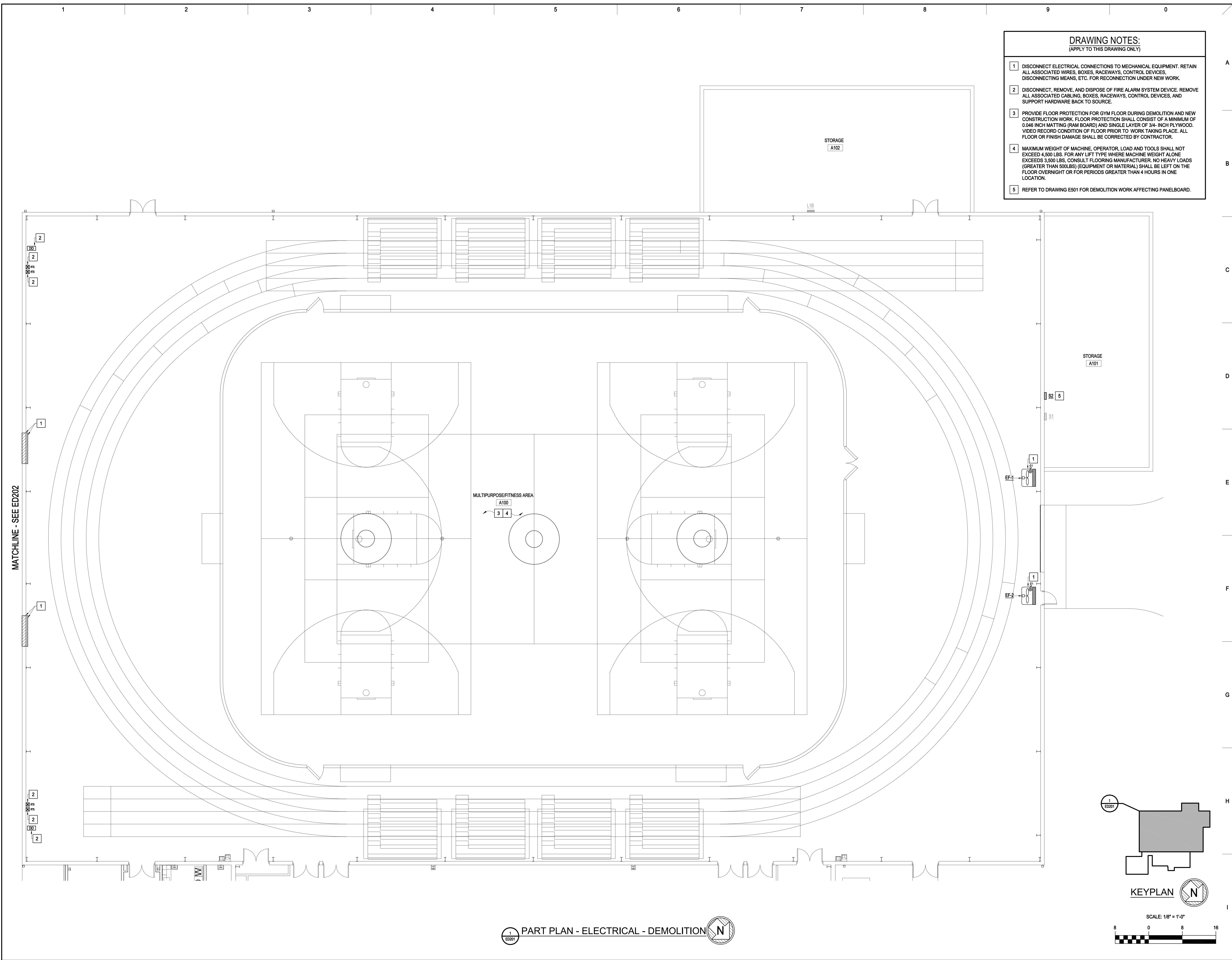
**FIRST FLOOR PLAN
POWER
DEMOLITION**

DESIGNED BY	TMC
CHECKED BY	CDH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2028



FIRST FLOOR PLAN - POWER - DEMOLITION





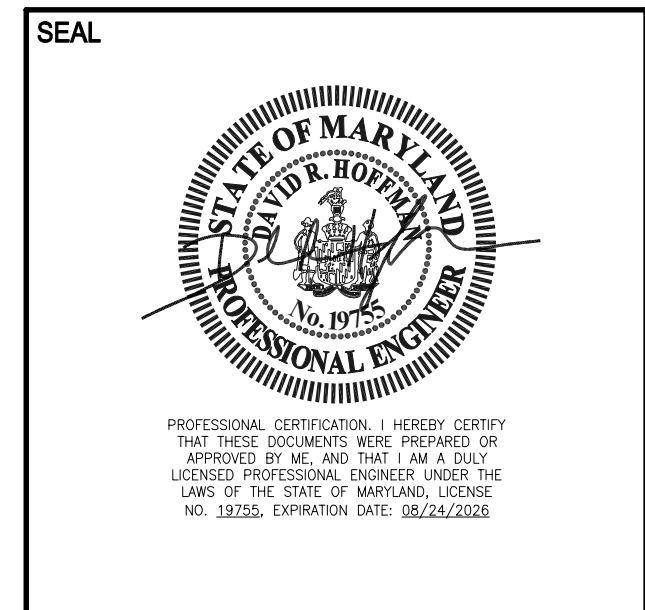
- DRAWING NOTES:**
(APPLY TO THIS DRAWING ONLY)
- 1 DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT. RETAIN ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, DISCONNECTING MEANS, ETC. FOR RECONNECTION UNDER NEW WORK.
 - 2 DISCONNECT, REMOVE, AND DISPOSE OF FIRE ALARM SYSTEM DEVICE. REMOVE ALL ASSOCIATED CABLING, BOXES, RACEWAYS, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.
 - 3 PROVIDE FLOOR PROTECTION FOR GYM FLOOR DURING DEMOLITION AND NEW CONSTRUCTION WORK. FLOOR PROTECTION SHALL CONSIST OF A MINIMUM OF 0.048 INCH MATTING (RAM BOARD) AND SINGLE LAYER OF 3/4-INCH PLYWOOD. VIDEO RECORD CONDITION OF FLOOR PRIOR TO WORK TAKING PLACE. ALL FLOOR OR FINISH DAMAGE SHALL BE CORRECTED BY CONTRACTOR.
 - 4 MAXIMUM WEIGHT OF MACHINE, OPERATOR, LOAD AND TOOLS SHALL NOT EXCEED 4,500 LBS. FOR ANY LIFT TYPE WHERE MACHINE WEIGHT ALONE EXCEEDS 3,500 LBS, CONSULT FLOORING MANUFACTURER. NO HEAVY LOADS (GREATER THAN 500LBS) (EQUIPMENT OR MATERIAL) SHALL BE LEFT ON THE FLOOR OVERNIGHT OR FOR PERIODS GREATER THAN 4 HOURS IN ONE LOCATION.
 - 5 REFER TO DRAWING E501 FOR DEMOLITION WORK AFFECTING PANELBOARD.

no.	date	comments

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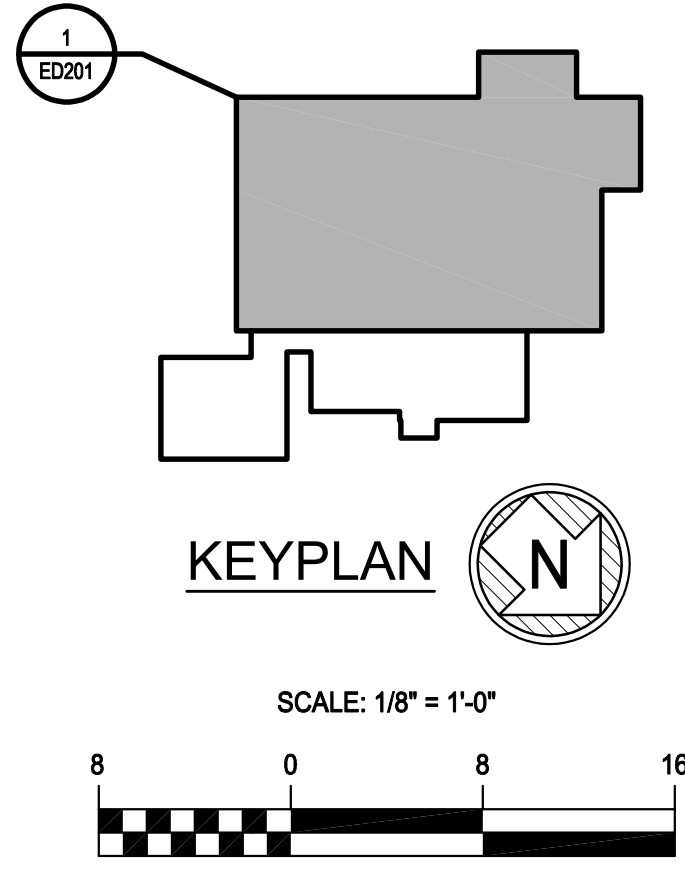
BID DOCUMENTS

**PART PLAN
ELECTRICAL
DEMOLITION**

DESIGNED BY	TMC	ED201
CHECKED BY	CDH	
SCALE	AS NOTED	
JOB NO.	25092	
DATE	03/12/2028	

MATCHLINE - SEE ED202

PART PLAN - ELECTRICAL - DEMOLITION



1 2 3 4 5 6 7 8 9 0

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

- 1 DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT. REMOVE AND DISPOSE OF ALL ASSOCIATED WIRES, BOXES, RACEWAYS, CONTROL DEVICES, DISCONNECTING MEANS, ETC. BACK TO SOURCE.
- 2 DISCONNECT, REMOVE, AND DISPOSE OF FIRE ALARM SYSTEM DEVICE. REMOVE ALL ASSOCIATED CABLING, BOXES, RACEWAYS, CONTROL DEVICES, AND SUPPORT HARDWARE BACK TO SOURCE.

no.	date	comments

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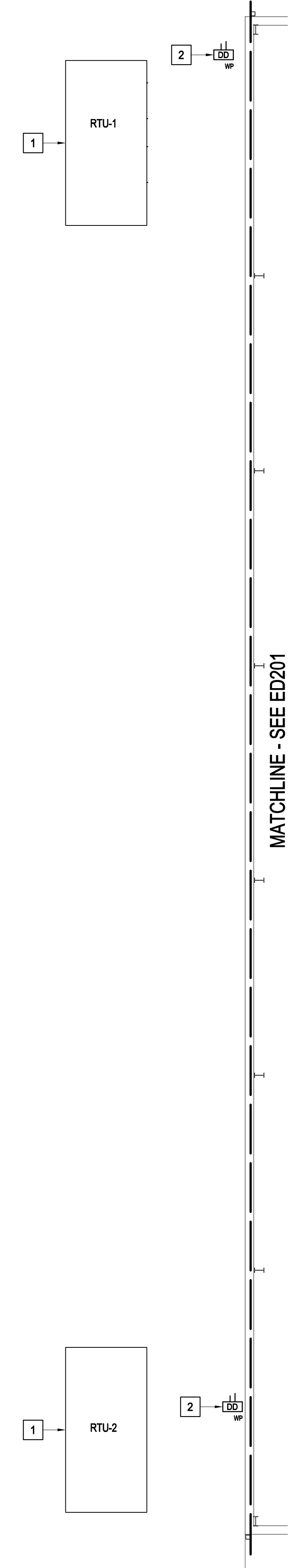
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**PART PLAN
ELECTRICAL
DEMOLITION**

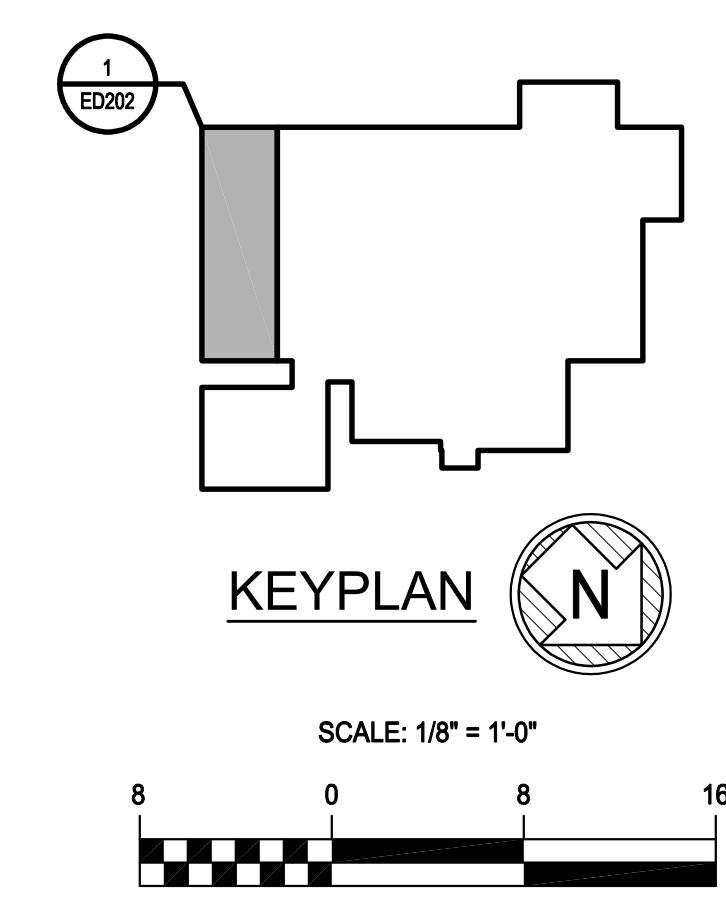
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CHECKED BY	CDH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2008

ED202

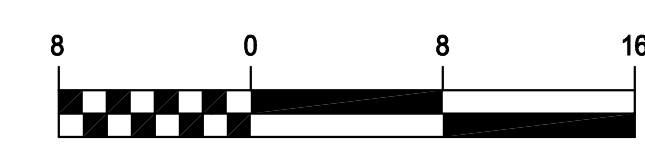


MATCHLINE - SEE ED201

PART PLAN - ELECTRICAL - DEMOLITION

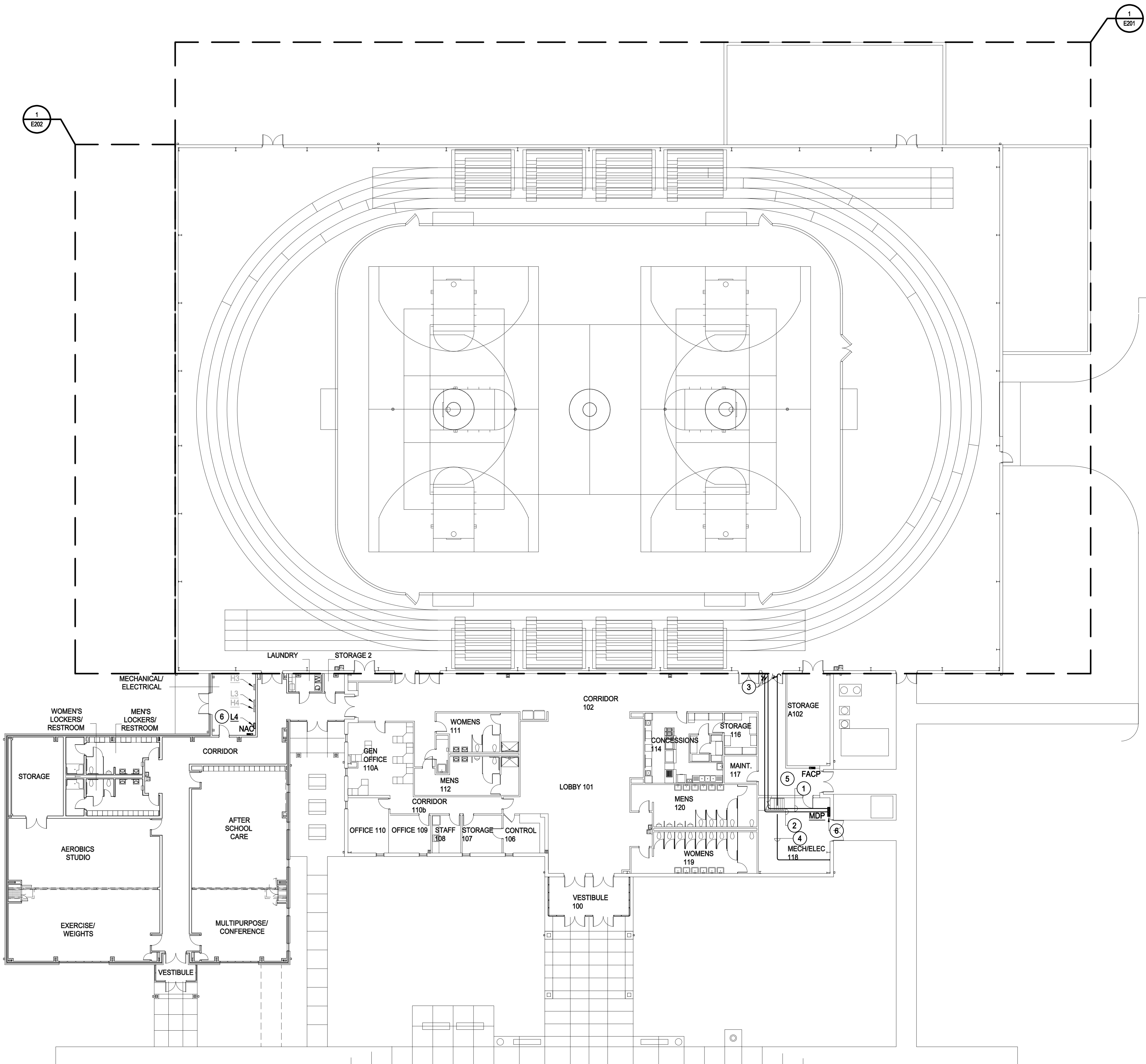


SCALE: 1/8" = 1'-0"



1 2 3 4 5 6 7 8 9 0

- DRAWING NOTES:**
(APPLY TO THIS DRAWING ONLY)
- ① (3) 4/0 AWG PHASE + (1) 4/0 AWG NEUTRAL AND (1) 4 AWG GROUND IN 2-1/2" CONDUIT FROM PANELBOARD MDP CIRCUIT 11 TO SZ/AV-1.
 - ② (3) 4/0 AWG PHASE + (1) 4/0 AWG NEUTRAL AND (1) 4 AWG GROUND IN 2-1/2" CONDUIT FROM PANELBOARD MDP CIRCUIT 13 TO SZ/AV-2.
 - ③ FOR CONTINUATION SEE DRAWING E201.
 - ④ 1" CONDUIT FROM DATA RACK IN MECH/ELEC 118 TO DATA OUTLET IN STORAGE ROOM.
 - ⑤ DISCONNECT/TEMPORARILY SUPPORT ALL CEILING MOUNTED DEVICES AS REQUIRED TO INSTALL CONDUITS ABOVE THE CEILING IN THIS CORRIDOR.
 - ⑥ SEE NEW WORK PANELBOARD SCHEDULE ON DRAWING E501 FOR NEW WORK AFFECTING EXISTING PANELBOARD.

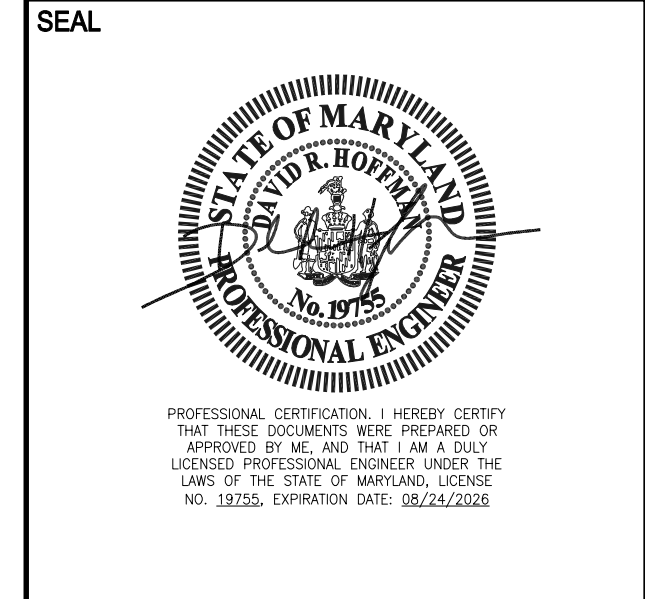


no.	date	comments

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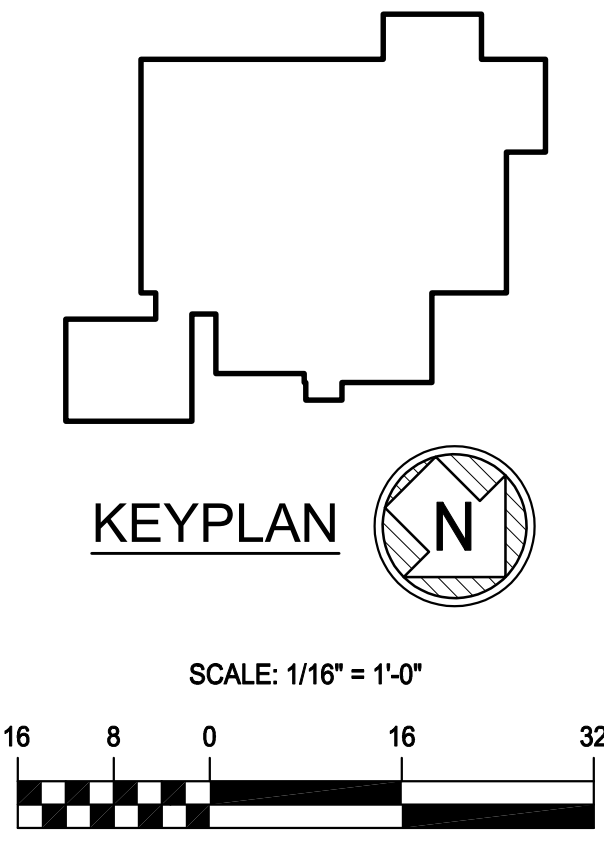
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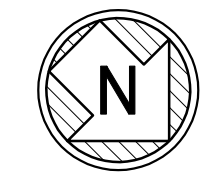
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**FIRST FLOOR PLAN
POWER
NEW WORK**

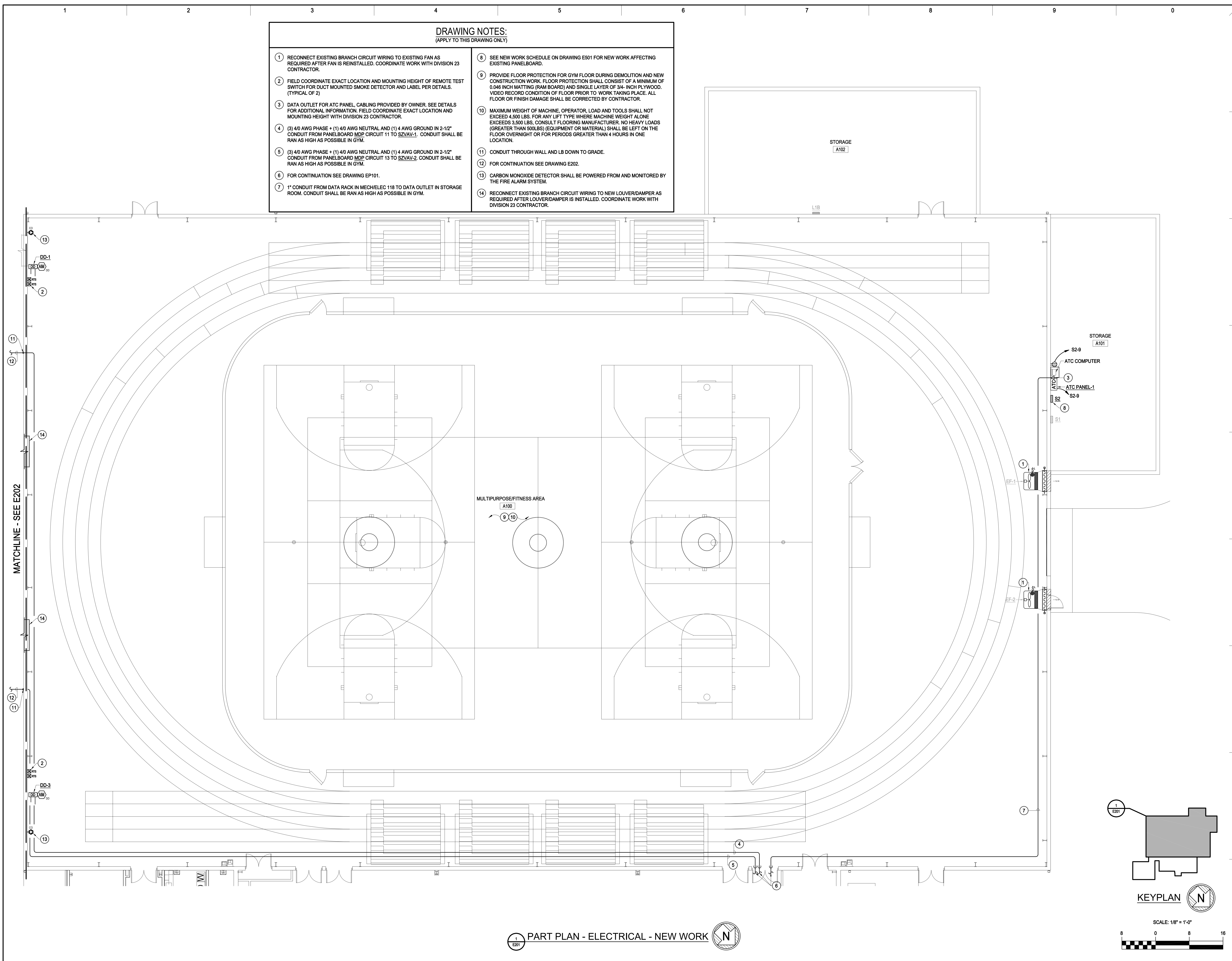
DESIGNED BY	TMC	EP101
CHECKED BY	CDH	
SCALE	AS NOTED	
DATE	03/12/2028	



FIRST FLOOR PLAN - POWER - NEW WORK



- DRAWING NOTES:**
(APPLY TO THIS DRAWING ONLY)
- | | |
|--|--|
| <p>1 RECONNECT EXISTING BRANCH CIRCUIT WIRING TO EXISTING FAN AS REQUIRED AFTER FAN IS REINSTALLED. COORDINATE WORK WITH DIVISION 23 CONTRACTOR.</p> <p>2 FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF REMOTE TEST SWITCH FOR DUCT MOUNTED SMOKE DETECTOR AND LABEL. PER DETAILS. (TYPICAL OF 2)</p> <p>3 DATA OUTLET FOR ATC PANEL, CABLING PROVIDED BY OWNER. SEE DETAILS FOR ADDITIONAL INFORMATION. FIELD COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH DIVISION 23 CONTRACTOR.</p> <p>4 (3) 4/0 AWG PHASE + (1) 4/0 AWG NEUTRAL AND (1) 4 AWG GROUND IN 2-1/2" CONDUIT FROM PANELBOARD MDP CIRCUIT 11 TO SZVAV-1. CONDUIT SHALL BE RAN AS HIGH AS POSSIBLE IN GYM.</p> <p>5 (3) 4/0 AWG PHASE + (1) 4/0 AWG NEUTRAL AND (1) 4 AWG GROUND IN 2-1/2" CONDUIT FROM PANELBOARD MDP CIRCUIT 13 TO SZVAV-2. CONDUIT SHALL BE RAN AS HIGH AS POSSIBLE IN GYM.</p> <p>6 FOR CONTINUATION SEE DRAWING EP101.</p> <p>7 1" CONDUIT FROM DATA RACK IN MECH/ELEC 118 TO DATA OUTLET IN STORAGE ROOM. CONDUIT SHALL BE RAN AS HIGH AS POSSIBLE IN GYM.</p> | <p>8 SEE NEW WORK SCHEDULE ON DRAWING E501 FOR NEW WORK AFFECTING EXISTING PANELBOARD.</p> <p>9 PROVIDE FLOOR PROTECTION FOR GYM FLOOR DURING DEMOLITION AND NEW CONSTRUCTION WORK. FLOOR PROTECTION SHALL CONSIST OF A MINIMUM OF 0.046 INCH MATTING (RAM BOARD) AND SINGLE LAYER OF 3/4" PLYWOOD. VIDEO RECORD CONDITION OF FLOOR PRIOR TO WORK TAKING PLACE. ALL FLOOR OR FINISH DAMAGE SHALL BE CORRECTED BY CONTRACTOR.</p> <p>10 MAXIMUM WEIGHT OF MACHINE, OPERATOR, LOAD AND TOOLS SHALL NOT EXCEED 4,500 LBS. FOR ANY LIFT TYPE WHERE MACHINE WEIGHT ALONE EXCEEDS 3,500 LBS, CONSULT FLOORING MANUFACTURER. NO HEAVY LOADS (GREATER THAN 500LBS) (EQUIPMENT OR MATERIAL) SHALL BE LEFT ON THE FLOOR OVERNIGHT OR FOR PERIODS GREATER THAN 4 HOURS IN ONE LOCATION.</p> <p>11 CONDUIT THROUGH WALL AND LB DOWN TO GRADE.</p> <p>12 FOR CONTINUATION SEE DRAWING E202.</p> <p>13 CARBON MONOXIDE DETECTOR SHALL BE POWERED FROM AND MONITORED BY THE FIRE ALARM SYSTEM.</p> <p>14 RECONNECT EXISTING BRANCH CIRCUIT WIRING TO NEW LOUVER/DAMPER AS REQUIRED AFTER LOUVER/DAMPER IS INSTALLED. COORDINATE WORK WITH DIVISION 23 CONTRACTOR.</p> |
|--|--|

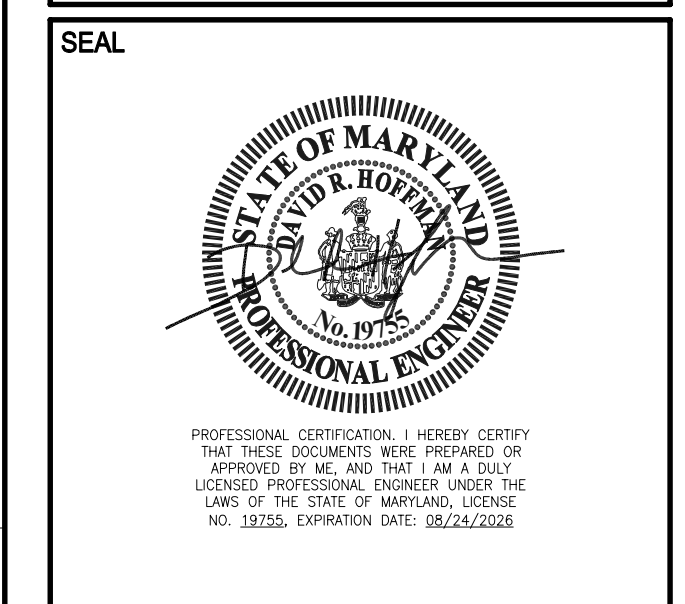


no.	date	comments

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WOF# 25092

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**WORCESTER COUNTY RECREATION CENTER
HVAC SYSTEM REPLACEMENTS**

6030 PUBLIC LANDING RD,
SNOW HILL, MD 21863

DESIGNED BY TMC
CHECKED BY CDH
SCALE AS NOTED
JOB NO. 25092
DATE 03/12/2028

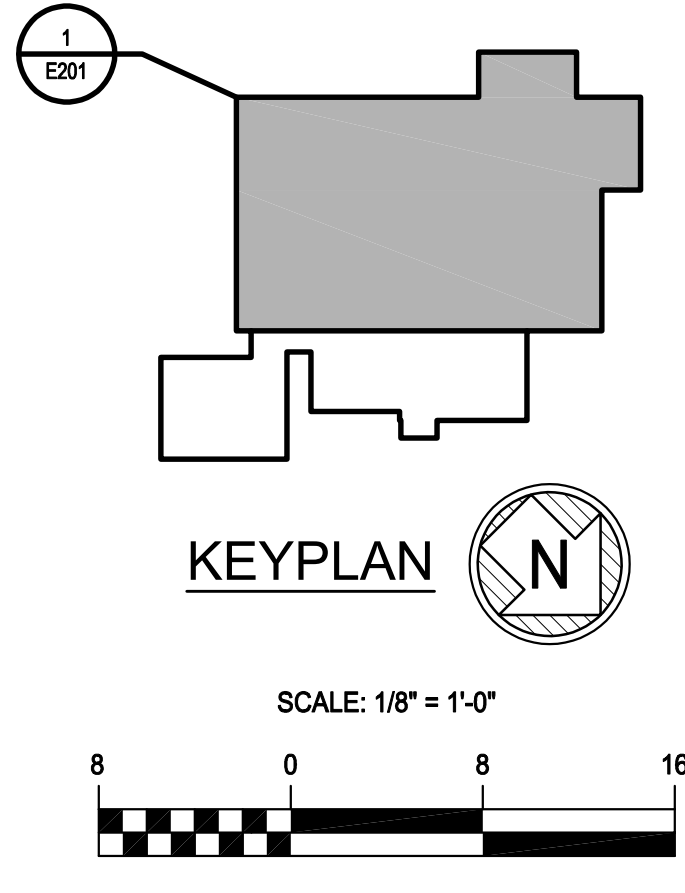
SUBMISSION

BID DOCUMENTS

**PART PLAN
ELECTRICAL
NEW WORK**

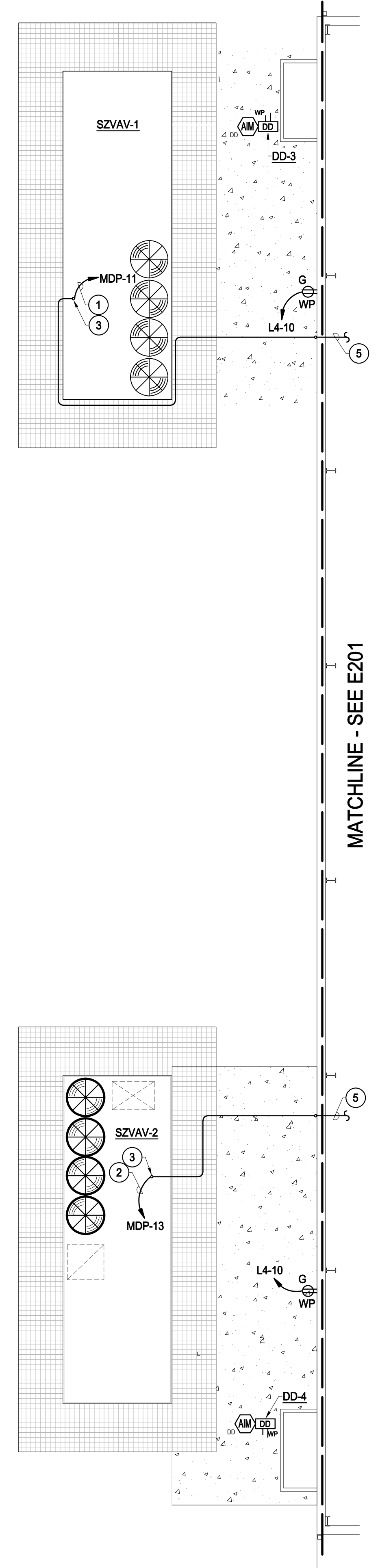
E201

1 PART PLAN - ELECTRICAL - NEW WORK



DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

- ① (3) 4/0 AWG PHASE + (1) 4/0 AWG NEUTRAL AND (1) 4 AWG GROUND IN 2-1/2" CONDUIT FROM PANELBOARD MDP CIRCUIT 11 TO SZVAV-1.
- ② (3) 4/0 AWG PHASE + (1) 4/0 AWG NEUTRAL AND (1) 4 AWG GROUND IN 2-1/2" CONDUIT FROM PANELBOARD MDP CIRCUIT 13 TO SZVAV-2.
- ③ STUB CONDUIT UP AT EQUIPMENT AT LOCATION DIRECTED BY MANUFACTURER. TERMINATE CONDUCTORS AT INTEGRAL DISCONNECTING MEANS PER MANUFACTURER'S INSTRUCTIONS.
- ④ CONDUIT UP AT EXTERIOR WALL THEN LB THROUGH WALL TO GYM.
- ⑤ FOR CONTINUATION SEE DRAWING E201.

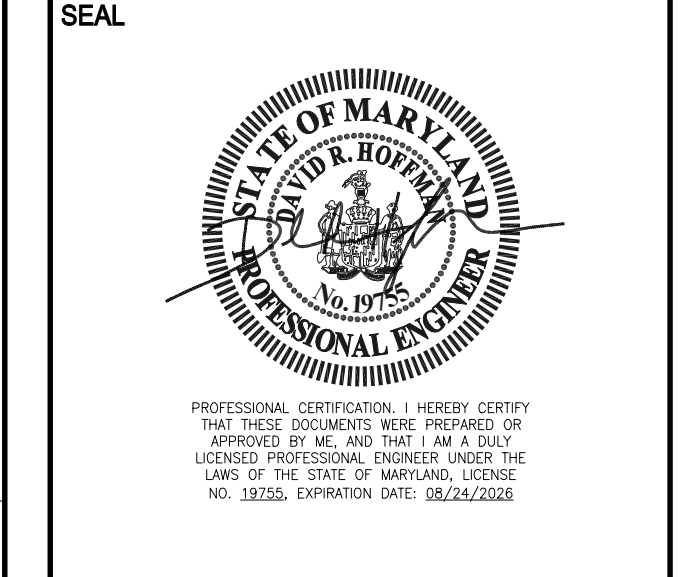


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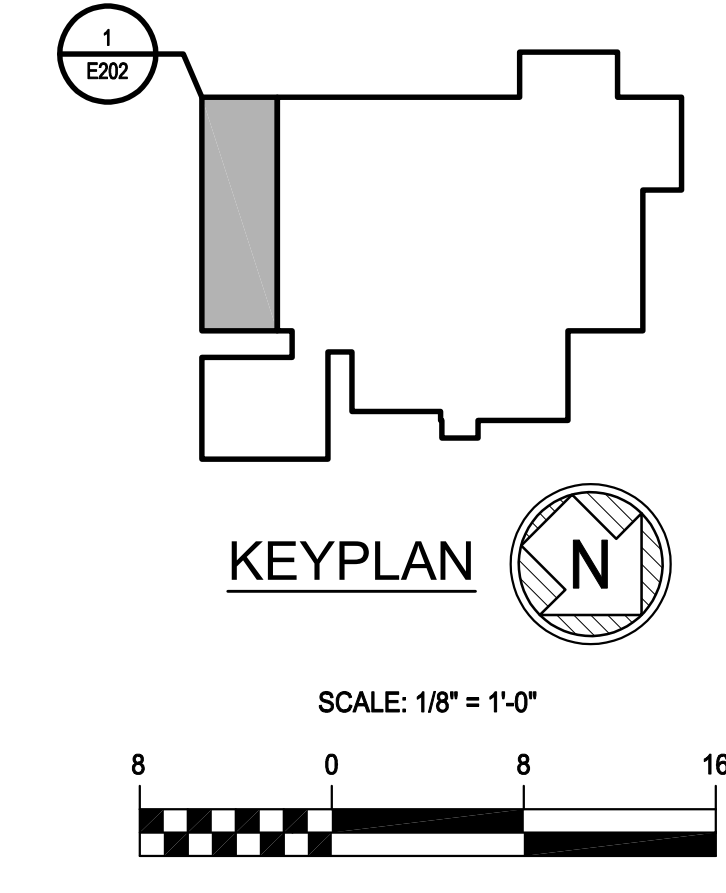
SUBMISSION

BID DOCUMENTS

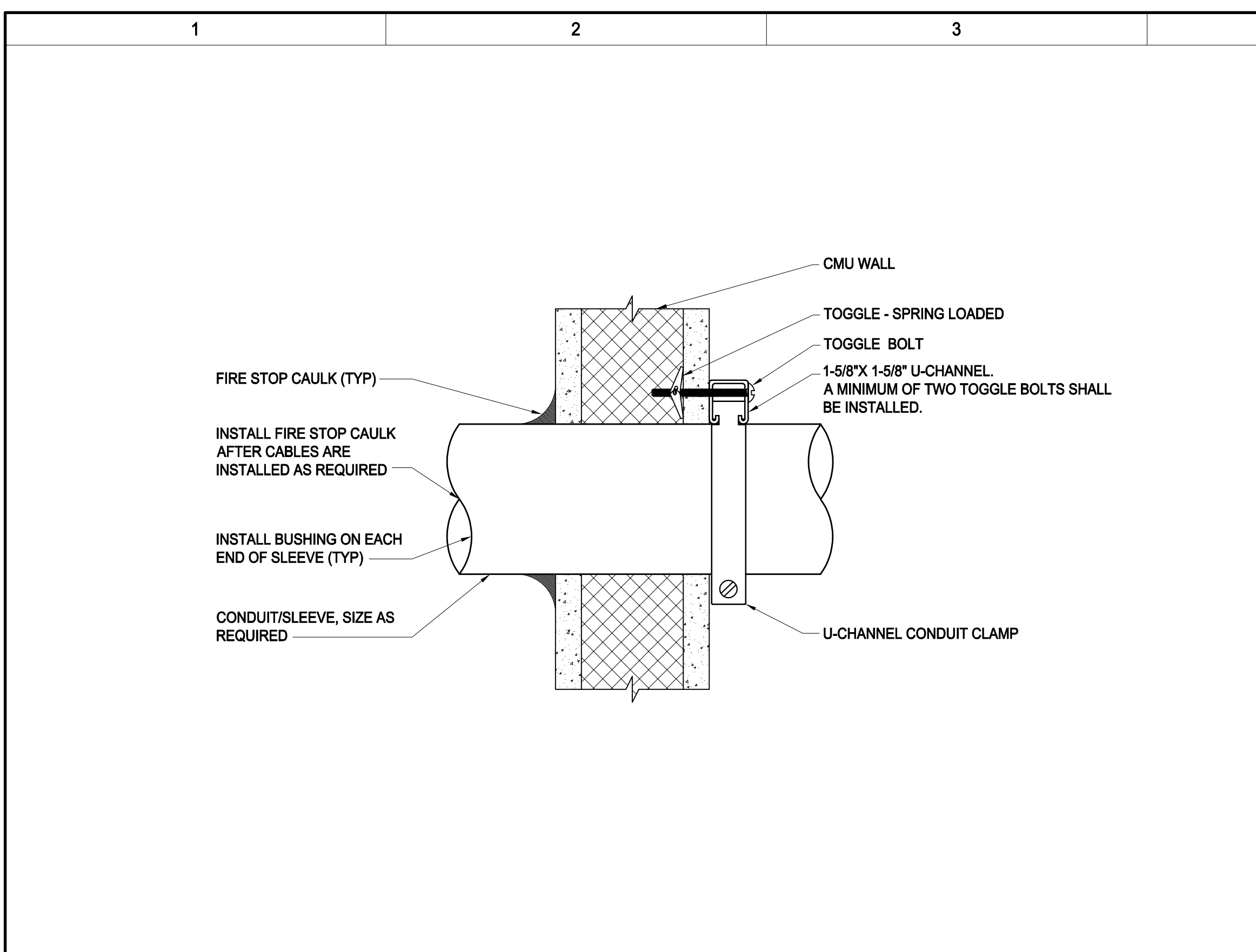
**PART PLAN
ELECTRICAL
NEW WORK**

DESIGNED BY	TMC
CHECKED BY	CDH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2028

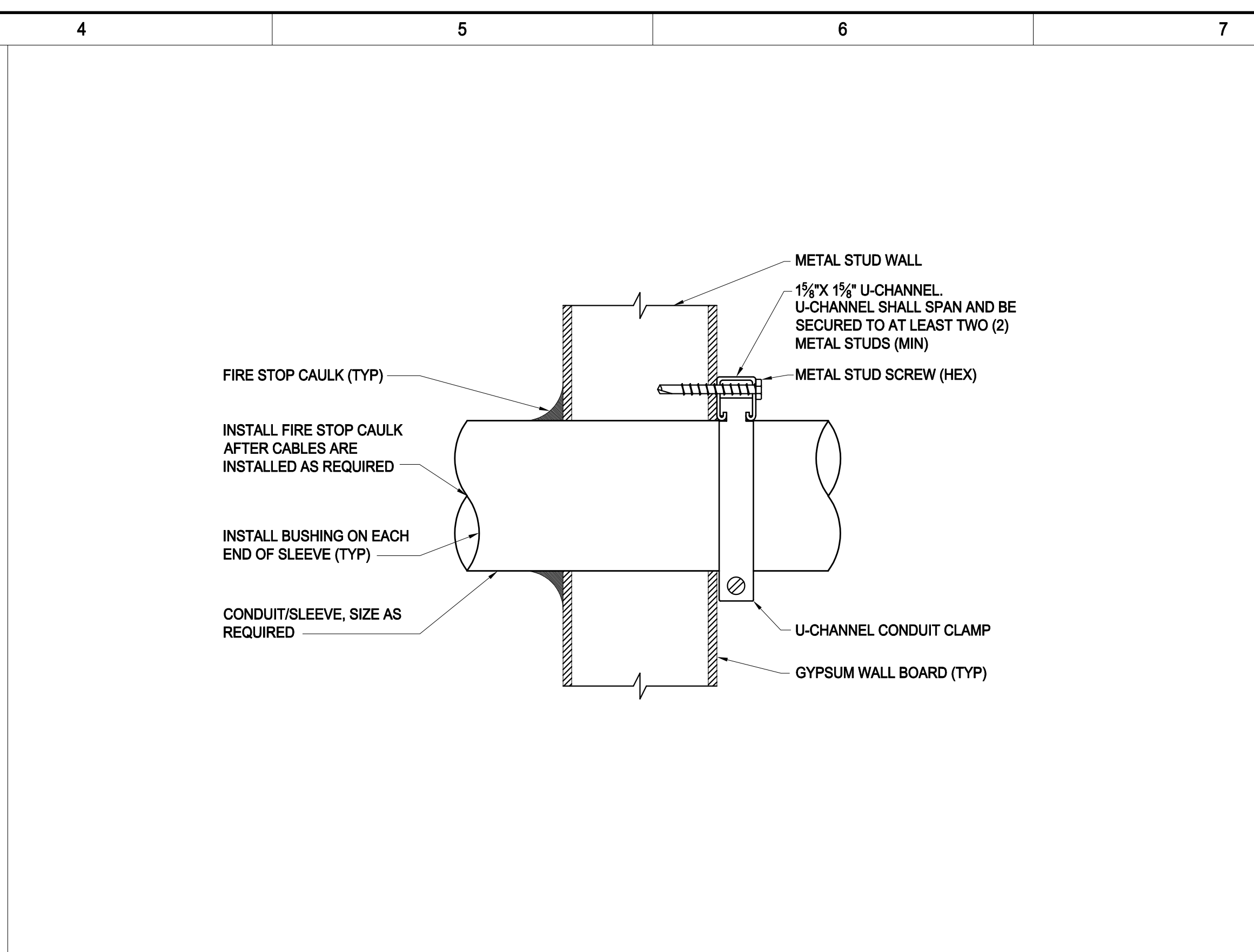
E202



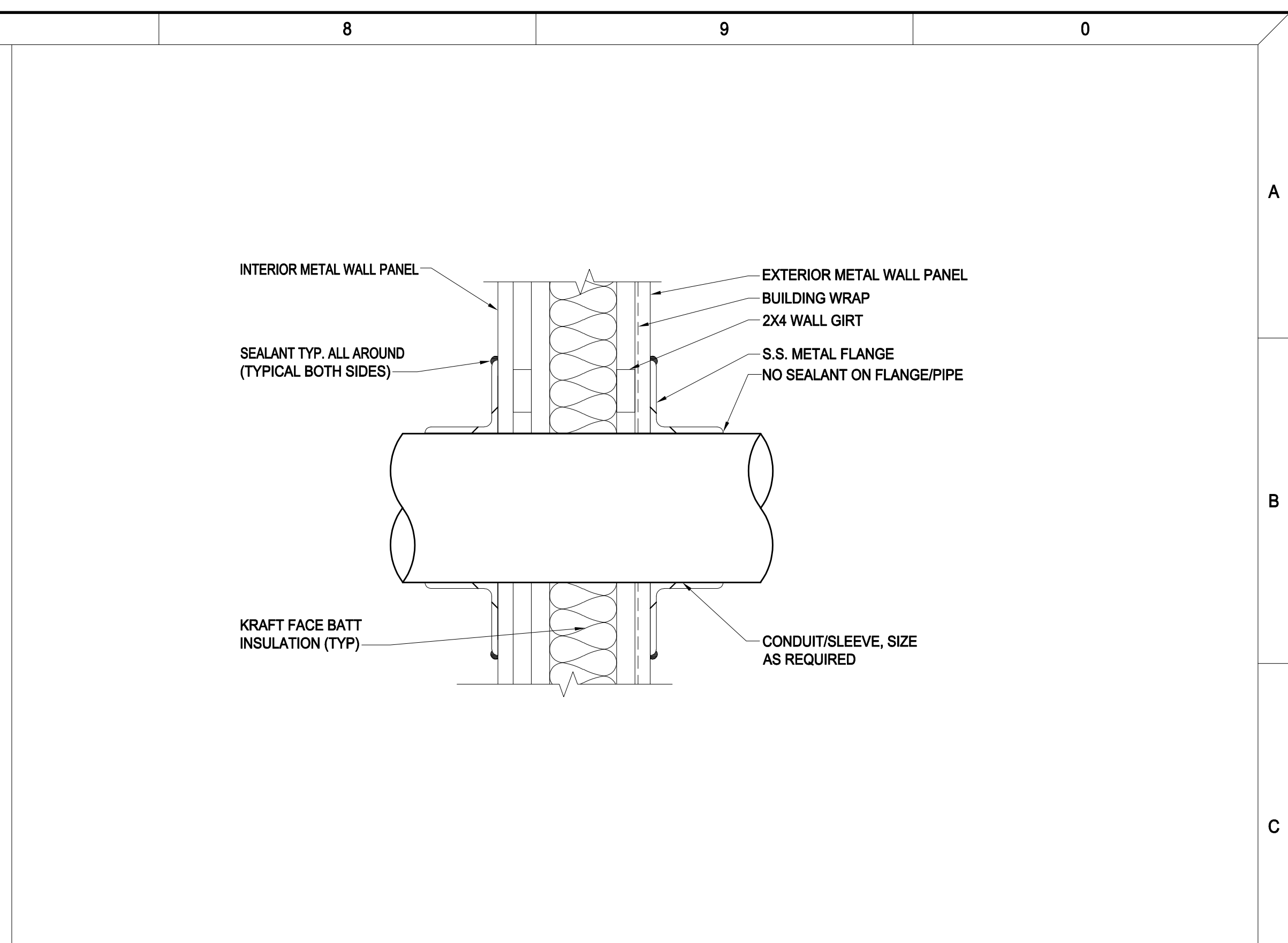
① PART PLAN - ELECTRICAL - NEW WORK



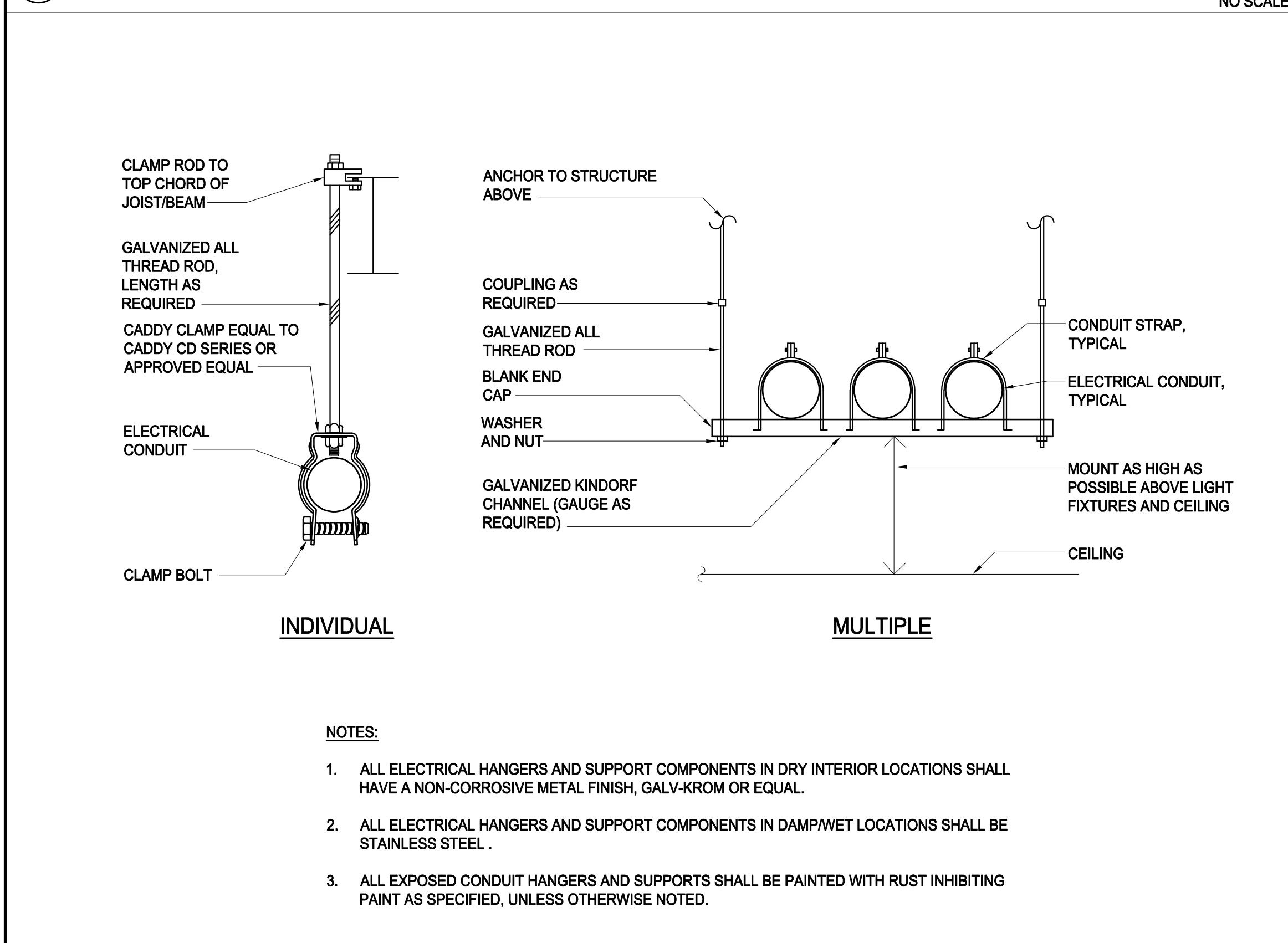
1 **DETAIL - TYPICAL CONDUIT SLEEVE THROUGH INTERIOR CMU WALL** NO SCALE



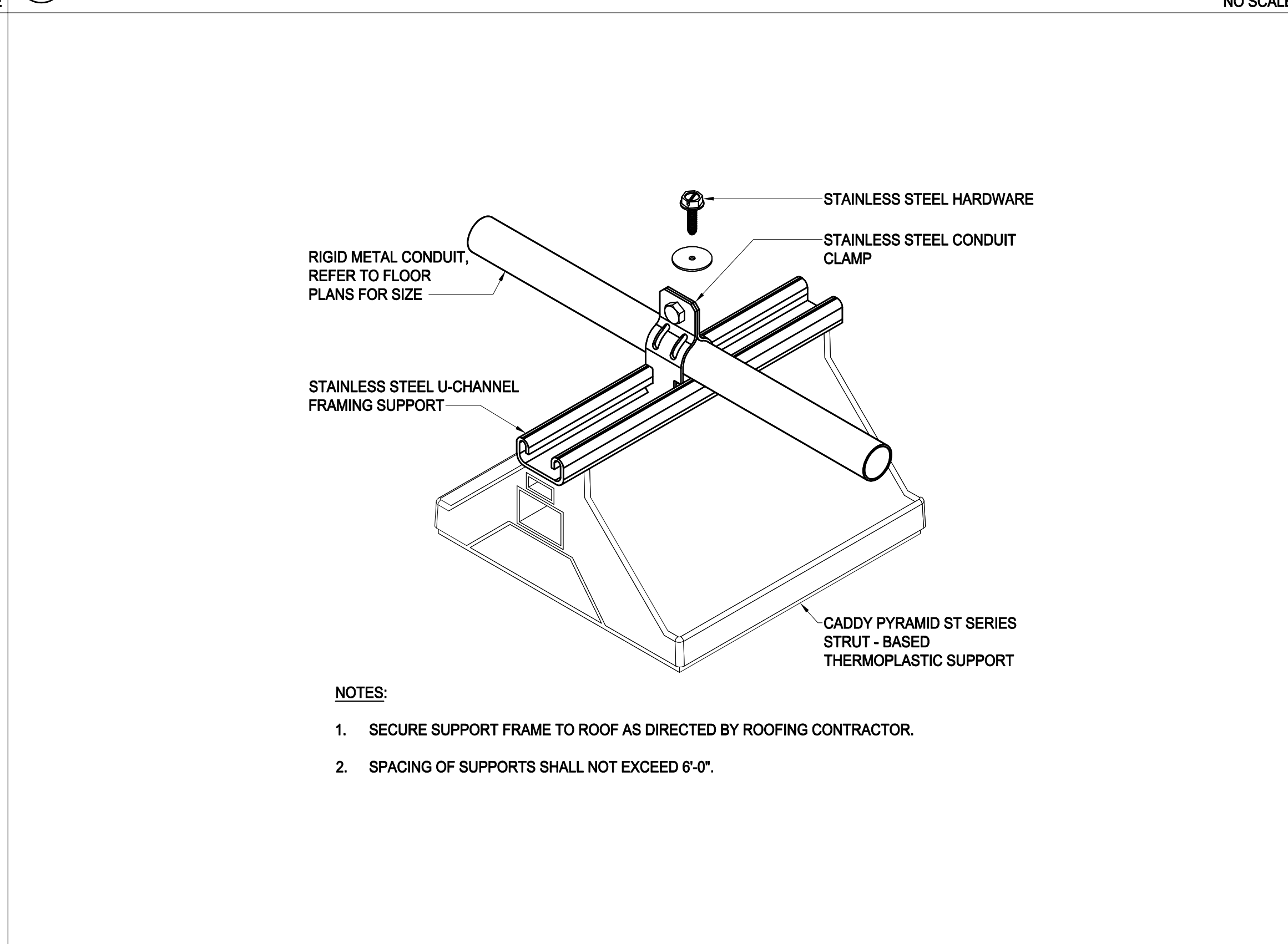
2 **DETAIL - TYPICAL CONDUIT SLEEVE THROUGH INTERIOR STUD WALL** NO SCALE



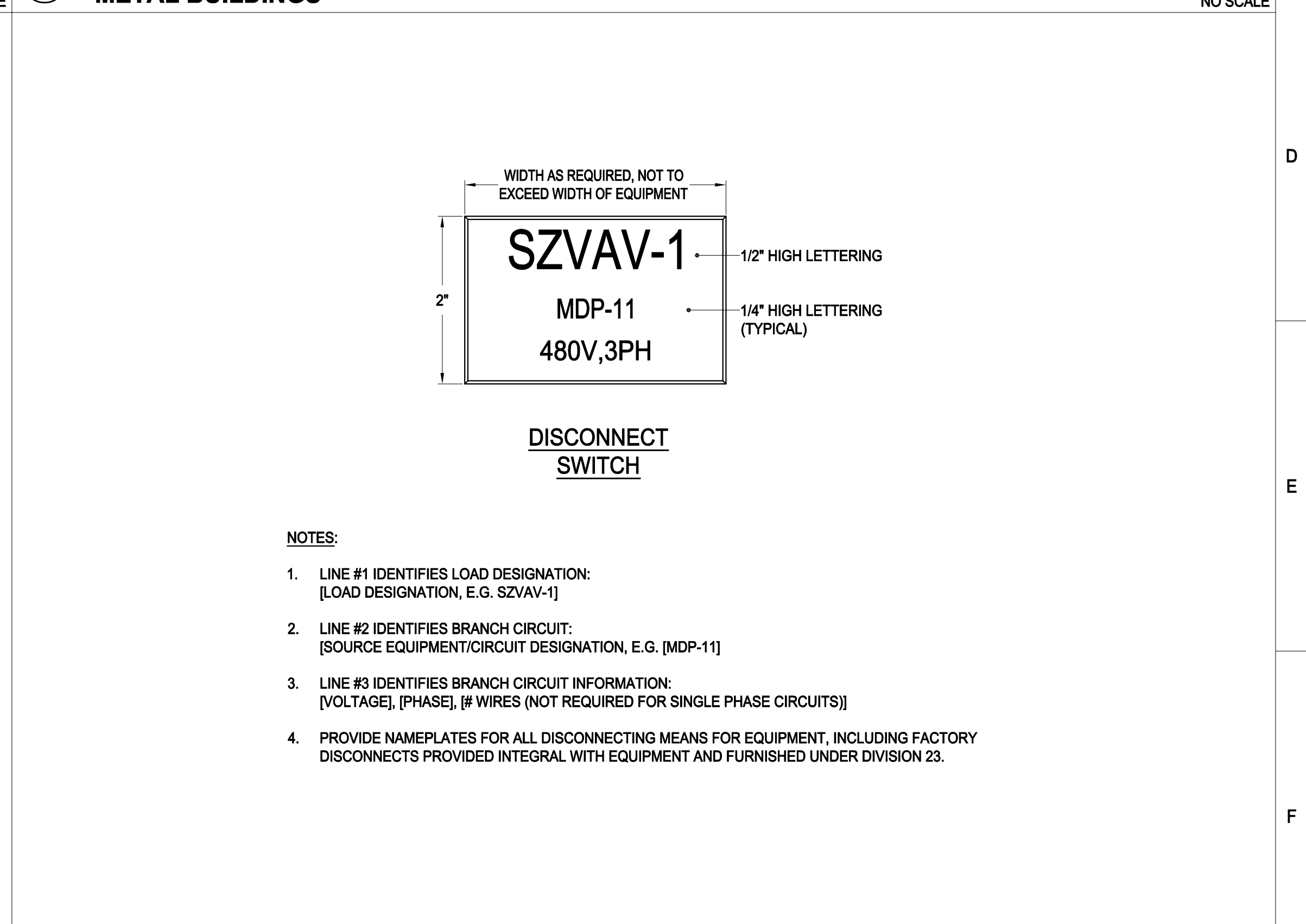
3 **DETAIL - TYPICAL CONDUIT THROUGH EXTERIOR WALL - ABOVE GRADE - METAL BUILDINGS** NO SCALE



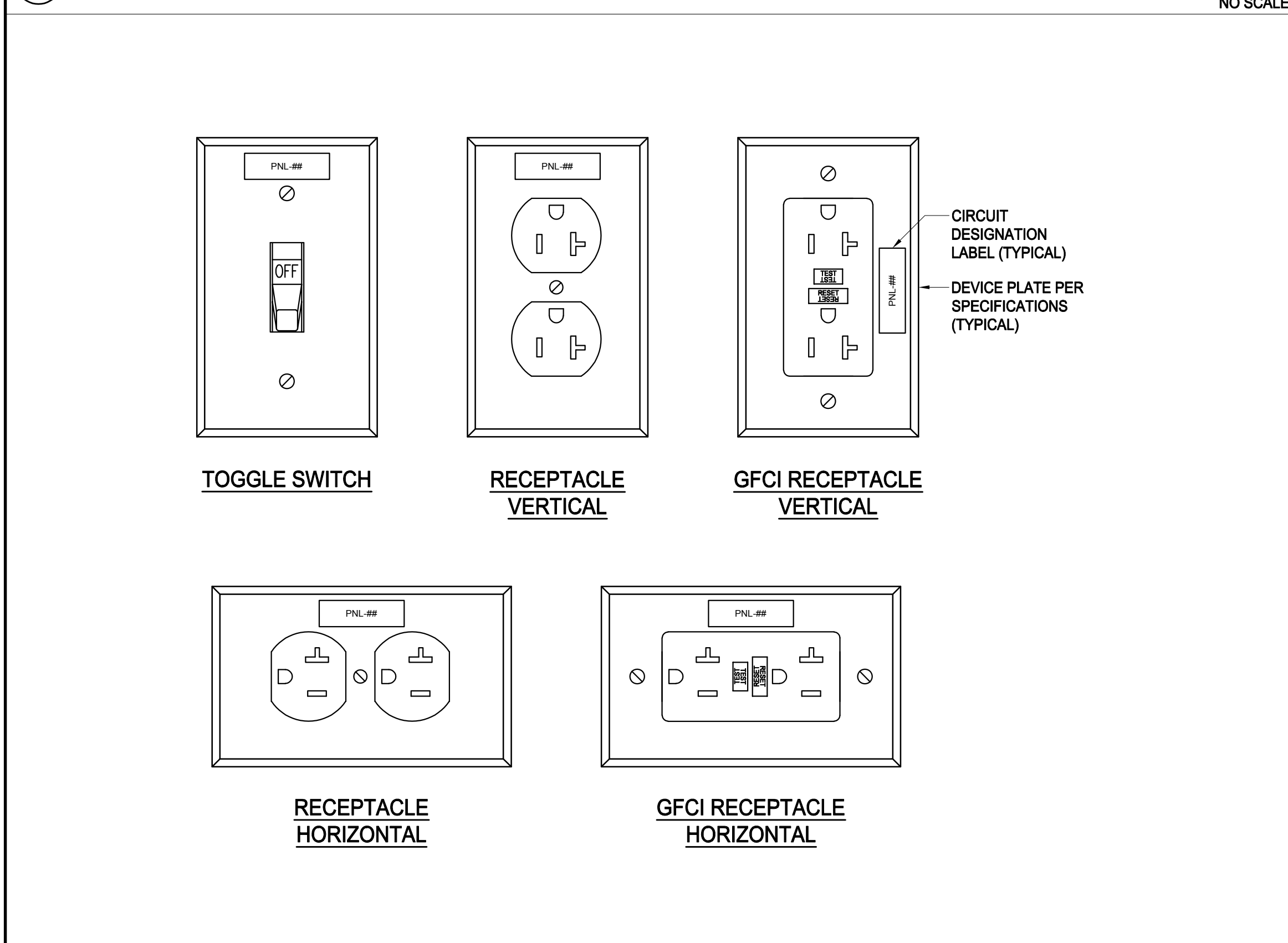
4 **DETAIL - TYPICAL CONDUIT SUPPORT** NO SCALE



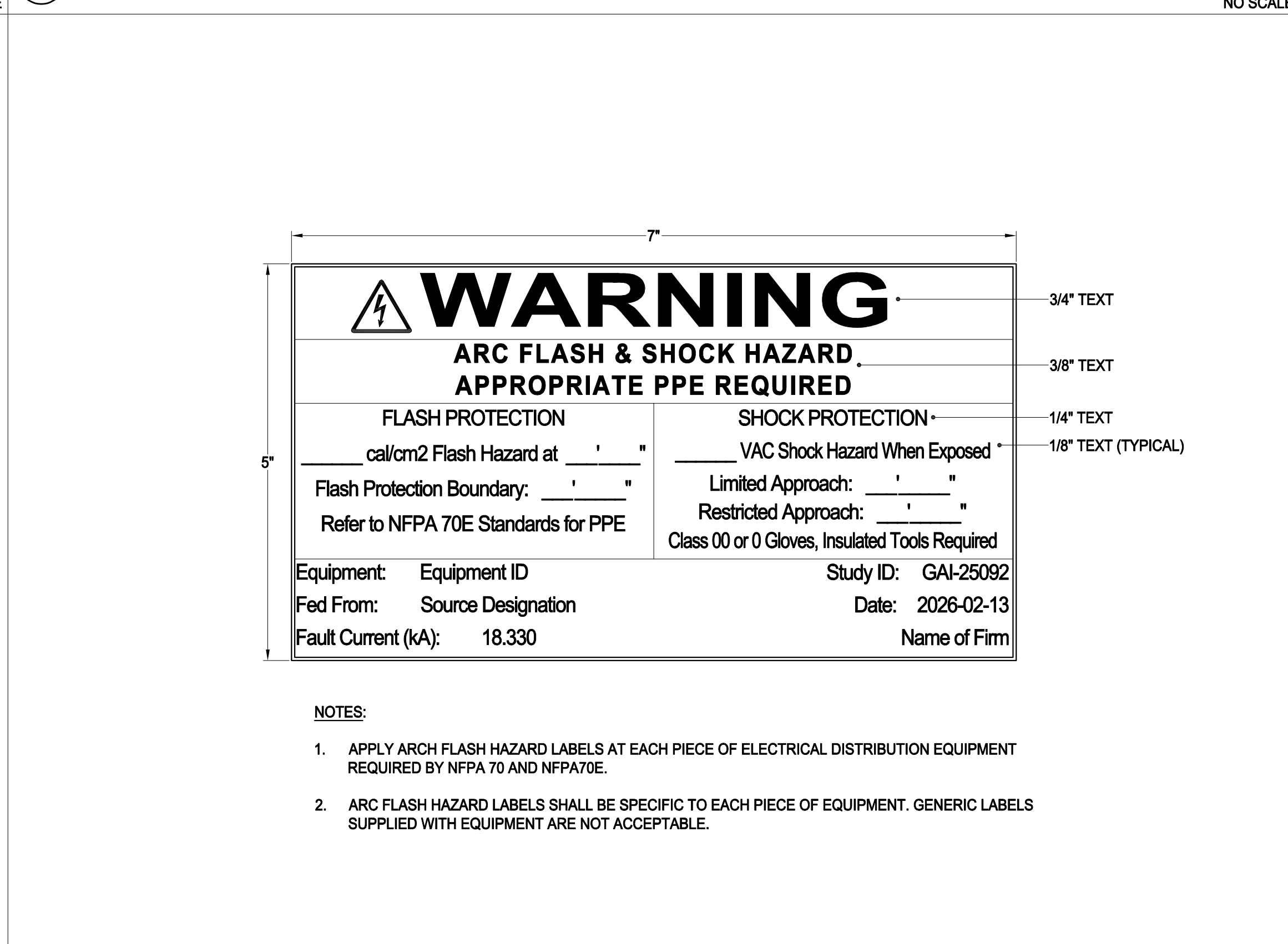
5 **DETAIL - TYPICAL CONDUIT SUPPORT - FIXED HEIGHT** NO SCALE



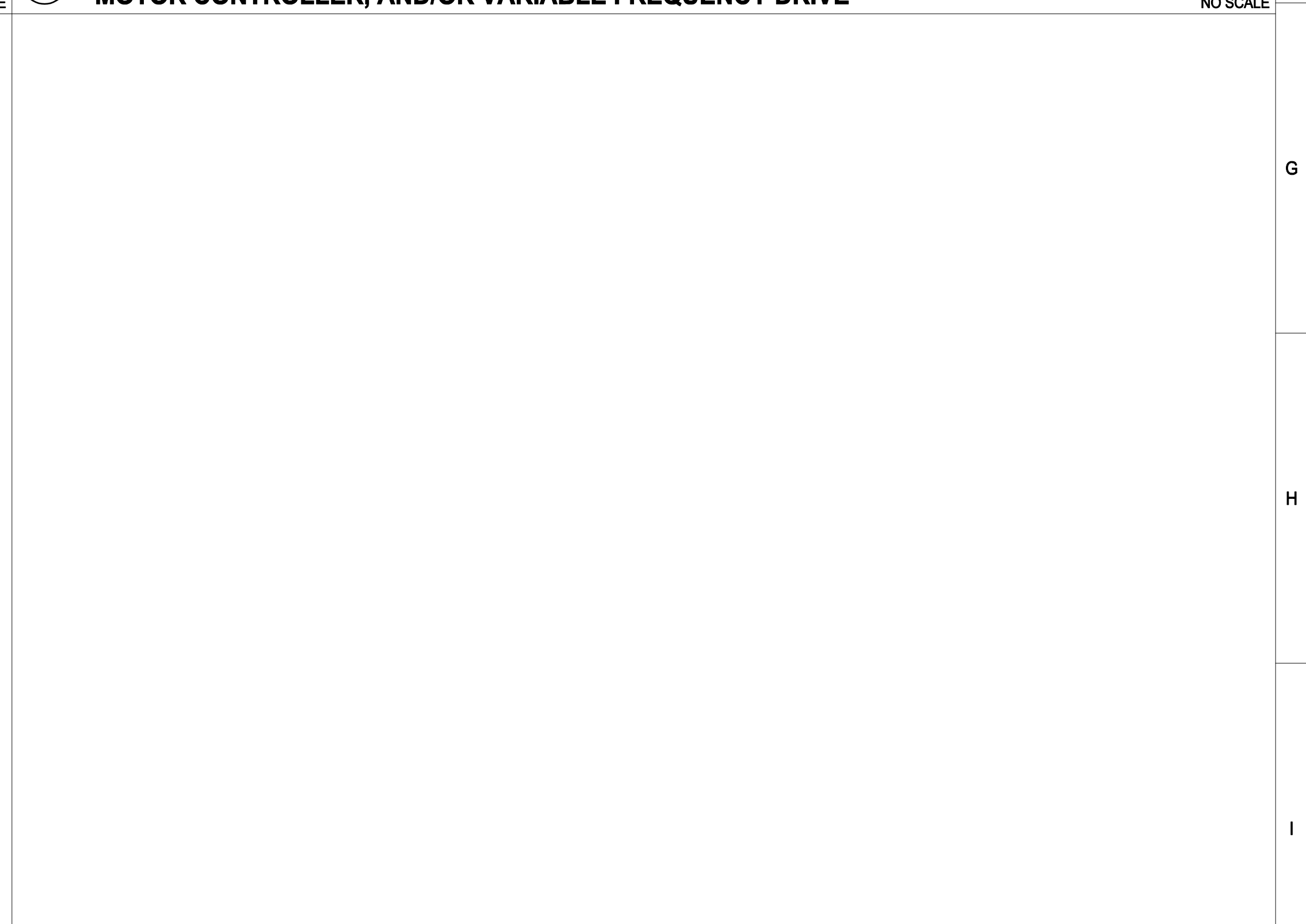
6 **DETAIL - TYPICAL EQUIPMENT NAMEPLATE - ENCLOSED SWITCH, COMBINATION MOTOR CONTROLLER, AND/OR VARIABLE FREQUENCY DRIVE** NO SCALE



7 **DETAIL - TYPICAL FACEPLATE LABELING - TOGGLE SWITCHES AND RECEPTACLES** NO SCALE



8 **DETAIL - TYPICAL ARC FLASH HAZARD LABEL** NO SCALE



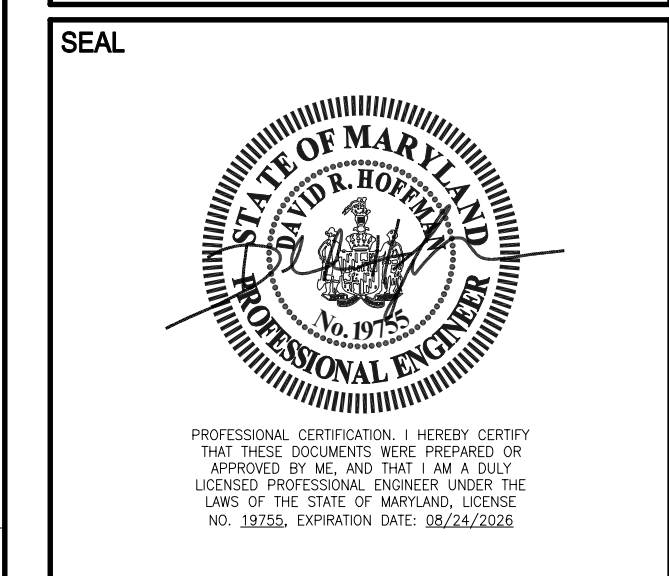
9 **NOT USED** NO SCALE

no.	date	comments

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HVAC SYSTEM REPLACEMENTS**

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SNOW HILL, MD 21863

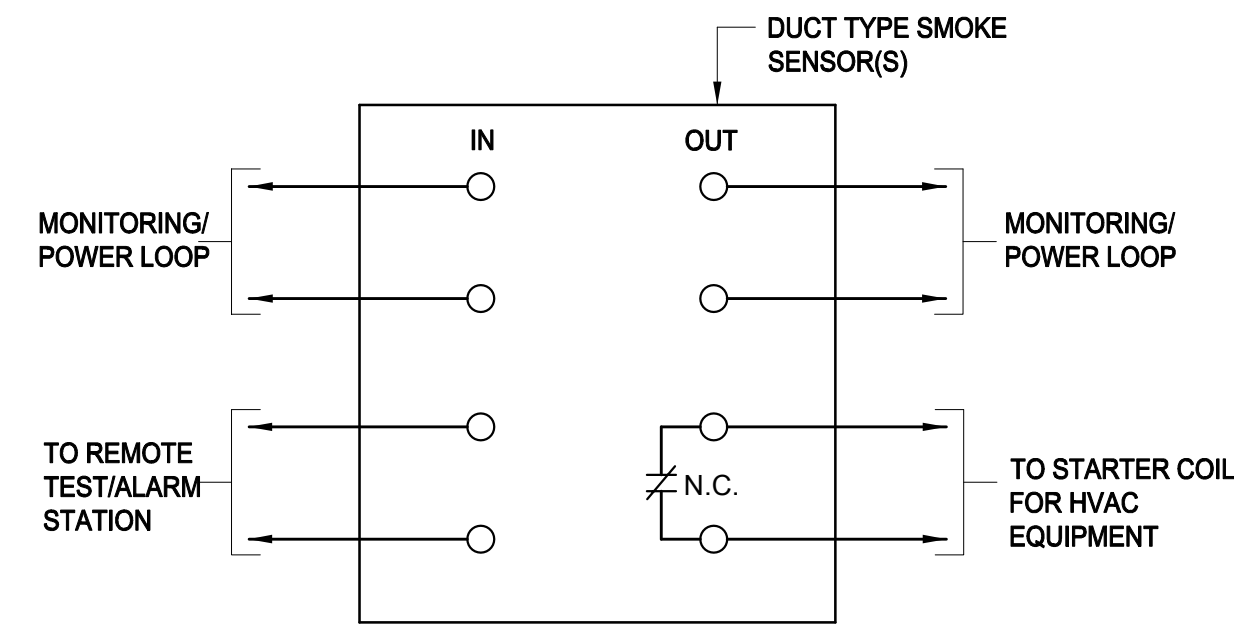
SUBMISSION

BID DOCUMENTS

DETAILS
ELECTRICAL

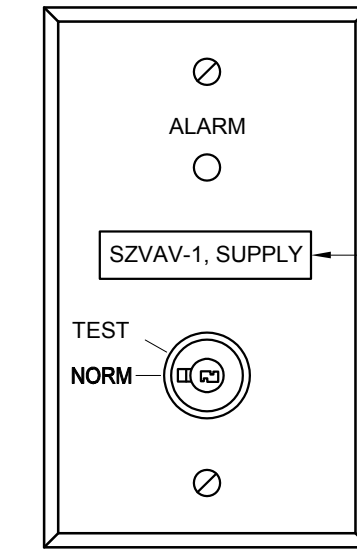
DESIGNED BY	TMC
CHECKED BY	CDH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2026

E301



NOTES:

1. TYPICAL FOR ALL DUCT TYPE SMOKE SENSORS.
2. WIRING BETWEEN HVAC EQUIPMENT MOTOR STARTERS AND SMOKE SENSORS SHALL BE (2) 14 AWG IN 3/4" CONDUIT.

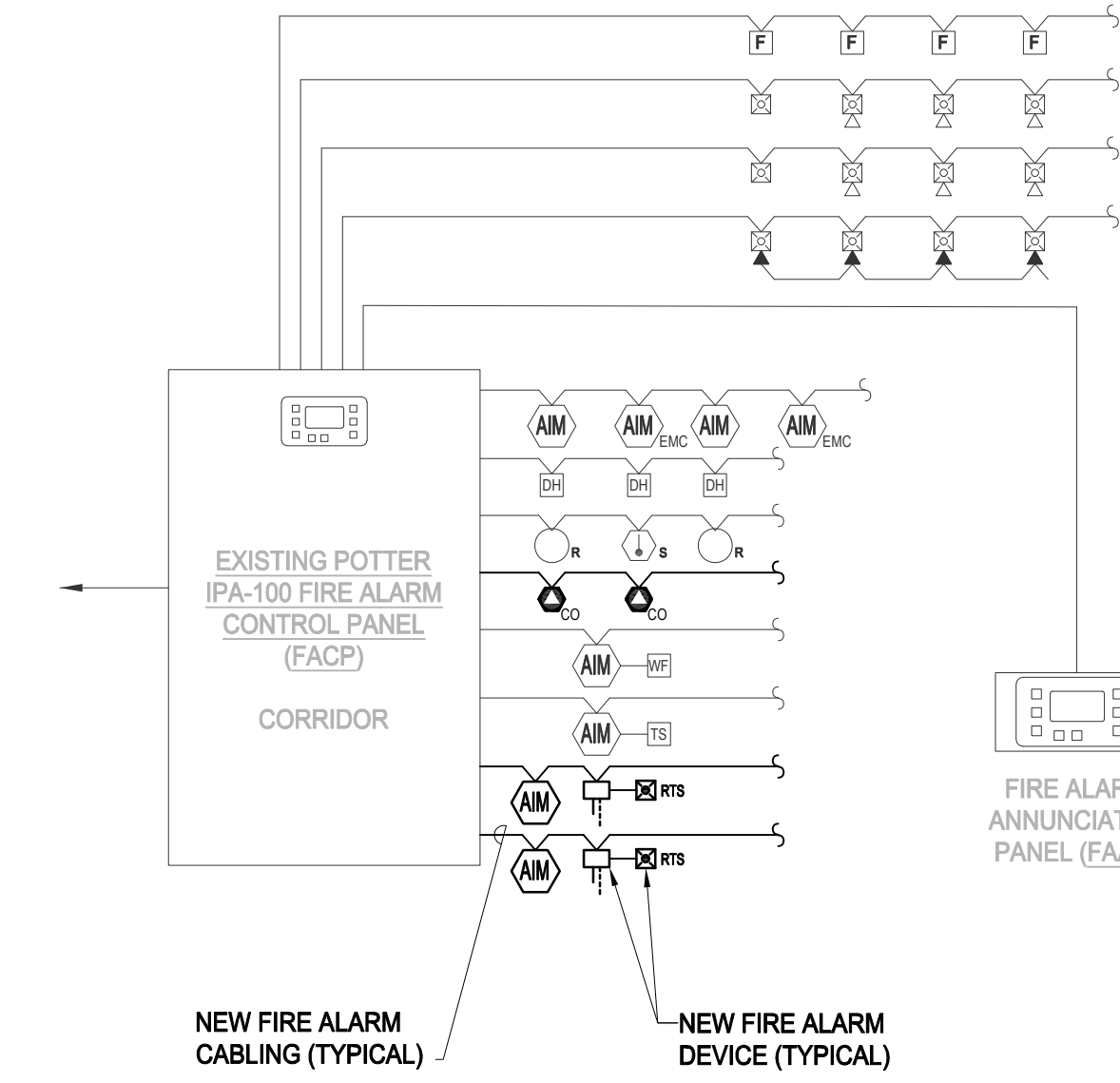


REMOTE TEST STATION LABEL (TYPICAL). INDICATE EQUIPMENT DESIGNATION, FOLLOWED BY "SUPPLY" OR "RETURN"

TYPICAL DUCT DETECTOR REMOTE TEST STATION

NOTES:

1. PROVIDE REMOTE TEST STATION FOR EACH DUCT-MOUNTED SMOKE SENSOR. VERIFY LOCATIONS OF TEST STATIONS WITH FIRE MARSHAL.
2. COORDINATE SIZE AND LOCATION OF LABEL(S) WITH REMOTE TEST STATION LAYOUT.



NOTES:

1. SINGLE LINE DIAGRAM IS SCHEMATIC IN NATURE, AND IS ONLY INTENDED TO DISPLAY OVERALL INTENT FOR THE FIRE ALARM SYSTEM.
2. SINGLE LINE DIAGRAM DOES NOT INDICATE ACTUAL QUANTITIES AND/OR TYPES OF DEVICES. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS.
3. PROVIDE ALL WIRING TYPES, SIZES AND INTERCONNECTIONS AS REQUIRED BY THE MANUFACTURER.
4. NOT ALL DEVICES ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR CODE COMPLIANCE AND SYSTEM OPERATION.

1 DETAIL - DUCT TYPE SMOKE SENSOR - WIRING DIAGRAM

NO SCALE

2 DETAIL - TYPICAL DUCT DETECTOR REMOTE TEST STATION LABELING

NO SCALE

3 FIRE ALARM SYSTEM - SINGLE LINE DIAGRAM

NO SCALE

3 NOT USED

4 NOT USED

5 NOT USED

6 NOT USED

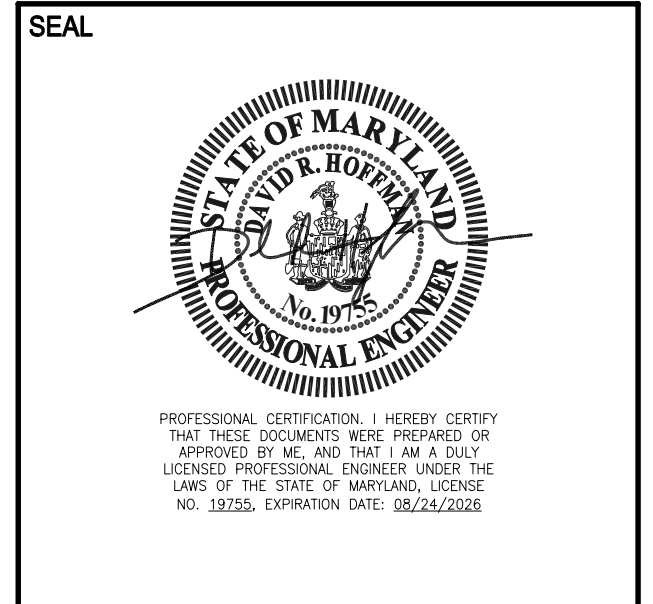
7 NOT USED

8 NOT USED

no.	date	comments

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 HVAC SYSTEM REPLACEMENTS**
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 SNOW HILL, MD 21863

SUBMISSION
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**DETAILS
 ELECTRICAL**

DESIGNED BY	TMC
CHECKED BY	CDH
SCALE	AS NOTED
JOB NO.	25092
DATE	03/12/2028

E302

VOLTAGE: 120/208 3 PHASE, 4 WIRE			EXISTING PANELBOARD (NOTE 1): S2						
AMPERES: 100 MAIN CIRCUIT BREAKER			DEMOLITION						
A.I.C. RATING: 10K			LOCATION: STORAGE						
CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE	CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE
1			EXISTING CIRCUIT	A B C	2	1	20	EXISTING CIRCUIT	A B C
3	2	20	EXISTING CIRCUIT	x x x	4	1	20	EXISTING CIRCUIT	x x x
5			EXISTING CIRCUIT	x x x	6	1	20	EXISTING CIRCUIT	x x x
7	2	20	EXISTING CIRCUIT	x x x	8	1	20	EXISTING CIRCUIT	x x x
9			SPACE (NOTES 4,5)	x x x	10				x x x
11			SPACE	x x x	12	3	20	EXISTING CIRCUIT	x x x
13			SPACE	x x x	14				x x x
15			SPACE	x x x	16	2	90	EXISTING CIRCUIT	x x x
17			SPACE	x x x	18				x x x
19			SPACE	x x x	20				x x x
21			SPACE	x x x	22				x x x
23			SPACE	x x x	24				x x x
25			SPACE	x x x	26				x x x
27	3	100	MAIN	x x x	28				x x x
29			SPACE	x x x	30				x x x
SUBTOTALS (NOTE 3):					SUBTOTALS (NOTE 3):				

VOLTAGE: 120/208 3 PHASE, 4 WIRE			EXISTING PANELBOARD (NOTE 1): S2						
AMPERES: 100 MAIN CIRCUIT BREAKER			NEW WORK						
A.I.C. RATING: 10K			LOCATION: STORAGE						
CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE	CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE
1	2	20	EXISTING CIRCUIT	x x x	2	1	20	EXISTING CIRCUIT	x x x
3			EXISTING CIRCUIT	x x x	4	1	20	EXISTING CIRCUIT	x x x
5	2	20	EXISTING CIRCUIT	x x x	6	1	20	EXISTING CIRCUIT	x x x
7			EXISTING CIRCUIT	x x x	8	1	20	EXISTING CIRCUIT	x x x
9	1	20	AFC, RCPT - STORAGE (NOTE 4,5)	x 0.80 x	10	1	20	EXISTING CIRCUIT	x x x
11			SPACE	x x x	12	3	20	EXISTING CIRCUIT	x x x
13			SPACE	x x x	14				x x x
15			SPACE	x x x	16	2	90	EXISTING CIRCUIT	x x x
17			SPACE	x x x	18				x x x
19			SPACE	x x x	20				x x x
21			SPACE	x x x	22				x x x
23			SPACE	x x x	24				x x x
25			SPACE	x x x	26				x x x
27	3	100	MAIN	x x x	28				x x x
29			SPACE	x x x	30				x x x
SUBTOTALS (NOTE 3):				0.00 0.80 0.00	SUBTOTALS (NOTE 3):				

VOLTAGE: 120/208 3 PHASE, 4 WIRE			EXISTING PANELBOARD (NOTE 1): L4						
AMPERES: 100 MAIN CIRCUIT BREAKER			DEMOLITION						
A.I.C. RATING: 10K			LOCATION: MECHELEC						
CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE	CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE
1	1	20	EXISTING CIRCUIT	x x x	2	1	20	EXISTING CIRCUIT	x x x
3	1	20	EXISTING CIRCUIT	x x x	4	1	20	EXISTING CIRCUIT	x x x
5	1	20	EXISTING CIRCUIT	x x x	6	1	20	EXISTING CIRCUIT	x x x
7	1	20	EXISTING CIRCUIT	x x x	8	1	20	EXISTING CIRCUIT	x x x
9	2	20	EXISTING CIRCUIT	x x x	10				x x x
11			SPACE	x x x	12				x x x
13			SPACE	x x x	14				x x x
15			SPACE	x x x	16				x x x
17			SPACE	x x x	18				x x x
19			SPACE	x x x	20				x x x
21			SPACE	x x x	22				x x x
23			SPACE	x x x	24				x x x
25			SPACE	x x x	26				x x x
27			SPACE	x x x	28				x x x
29			SPACE	x x x	30				x x x
SUBTOTALS (NOTE 3):					SUBTOTALS (NOTE 3):				

VOLTAGE: 120/208 3 PHASE, 4 WIRE			EXISTING PANELBOARD (NOTE 1): L4						
AMPERES: 100 MAIN CIRCUIT BREAKER			NEW WORK						
A.I.C. RATING: 10K			LOCATION: MECHELEC						
CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE	CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE
1	1	20	EXISTING CIRCUIT	x x x	2	1	20	EXISTING CIRCUIT	x x x
3	1	20	EXISTING CIRCUIT	x x x	4	1	20	EXISTING CIRCUIT	x x x
5	1	20	EXISTING CIRCUIT	x x x	6	1	20	EXISTING CIRCUIT	x x x
7	1	20	EXISTING CIRCUIT	x x x	8	1	20	EXISTING CIRCUIT	x x x
9	2	20	EXISTING CIRCUIT	x x x	10	1	20	RCPT - EXTERIOR (NOTES 4,5)	x 0.36 x
11			SPACE	x x x	12				x x x
13			SPACE	x x x	14				x x x
15			SPACE	x x x	16				x x x
17			SPACE	x x x	18				x x x
19			SPACE	x x x	20				x x x
21			SPACE	x x x	22				x x x
23			SPACE	x x x	24				x x x
25			SPACE	x x x	26				x x x
27			SPACE	x x x	28				x x x
29			SPACE	x x x	30				x x x
SUBTOTALS (NOTE 3):				0.0 0.0 0.0	SUBTOTALS (NOTE 3):				0.0 0.4 0.0

VOLTAGE: 277/480 3 PHASE, 4 WIRE			EXISTING DISTRIBUTION PANELBOARD (NOTE 1): MDP						
AMPERES: 600 MAIN CIRCUIT BREAKER			DEMOLITION						
A.I.C. RATING: 18K			LOCATION: MECHELEC 118						
CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE	CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE
1			SPACE	A B C	2			SPACE	A B C
3			SPACE	x x x	4			SPACE	x x x
5			SPACE	x x x	6			SPACE	x x x
7	3	250	PANEL H3	x x x	8	3	150	PANEL H4	x x x
9	2	30	SEWAGE PUMP	x x x	10	3	200	SPARE	x x x
11	3	125	RTU-1 (NOTES 4,5)	x x x	12	3	100	PANEL L2 VA45KVA TRANSFORMER	x x x
13	3	150	RTU-2 (NOTES 4,5)	x x x	14	3	125	PANEL L1 VA75KVA TRANSFORMER	x x x
15	3	200	PANEL S1	x x x	16	3	200	PANEL H1	x x x
SUBTOTALS (NOTE 3):					SUBTOTALS (NOTE 3):				

VOLTAGE: 277/480 3 PHASE, 4 WIRE			EXISTING DISTRIBUTION PANELBOARD (NOTE 1): MDP						
AMPERES: 600 MAIN CIRCUIT BREAKER			NEW WORK						
A.I.C. RATING: 30K			LOCATION: MECHELEC 118						
CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE	CIRCUIT NO.	CIRCUIT BREAKER POLE	TRIP	CIRCUIT DESCRIPTION (NOTE 2)	KVA PER PHASE
1			SPACE	A B C	2			SPACE	A B C
3			SPACE	x x x	4			SPACE	x x x
5			SPACE	x x x	6			SPACE	x x x
7	3	250	PANEL H3	x x x	8	3	150	PANEL H4	x x x
9	2	30	SEWAGE PUMP	x x x	10	3	200	SPARE	x x x
11	3	225	SZVAW-1 (NOTES 4,5)	49.30 x x	12	3	100	PANEL L2 VA45KVA TRANSFORMER	x x x
13	3	225	SZVAW-2 (NOTES 4,5)	x 49.30 x	14	3	125	PANEL L1 VA75KVA TRANSFORMER	x x x
15	3	200	PANEL S1	x x x	16	3	200	PANEL H1	x x x
SUBTOTALS (NOTE 3):				98.6 98.6 98.6	SUBTOTALS (NOTE 3):				0.0 0.0 0.0

REVISIONS

no.	date	comments

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SEAL

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Worcester County Recreation Center HVAC System Replacements
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SUBMISSION

BID DOCUMENTS

SCHEDULES ELECTRICAL

DESIGNED BY TMC
CHECKED BY CDH
SCALE AS NOTED
JOB NO. 25092
DATE 03/12/2028

E501

DRAWING NOTES:
(APPLY TO THIS DRAWING ONLY)

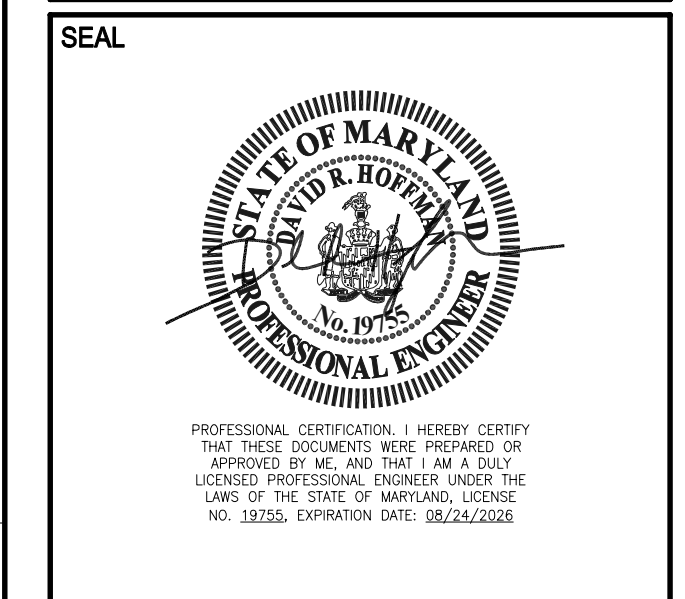
- ① EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN PLACE AND IN SERVICE.
- ② CONTRACTOR TO VERIFY EXISTING CONDUCTOR SIZE FROM UTILITY TRANSFORMER TO MAIN DISTRIBUTION PANELBOARD. (ASSUME 10-FEET OF TWO SETS OF (3) 350 AWG PHASE + (1) 350 AWG NEUTRAL IN 4" PVC CONDUIT).
- ③ EXISTING PANELBOARD TO REMAIN. NEW HVAC EQUIPMENT IS FED FROM THIS PANELBOARD.
- ④ (3) 4/0 AWG PHASE + (1) 4/0 AWG NEUTRAL AND (1) 4 AWG GROUND IN 2-1/2" CONDUIT.
- ⑤ EXISTING PANELBOARD IS AFFECTED BY DEMOLITION AND/OR NEW WORK. REFER TO SCHEDULES ON DRAWING E501 FOR ADDITIONAL INFORMATION.

no.	date	comments

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**WORCESTER COUNTY RECREATION CENTER
HVAC SYSTEM REPLACEMENTS**

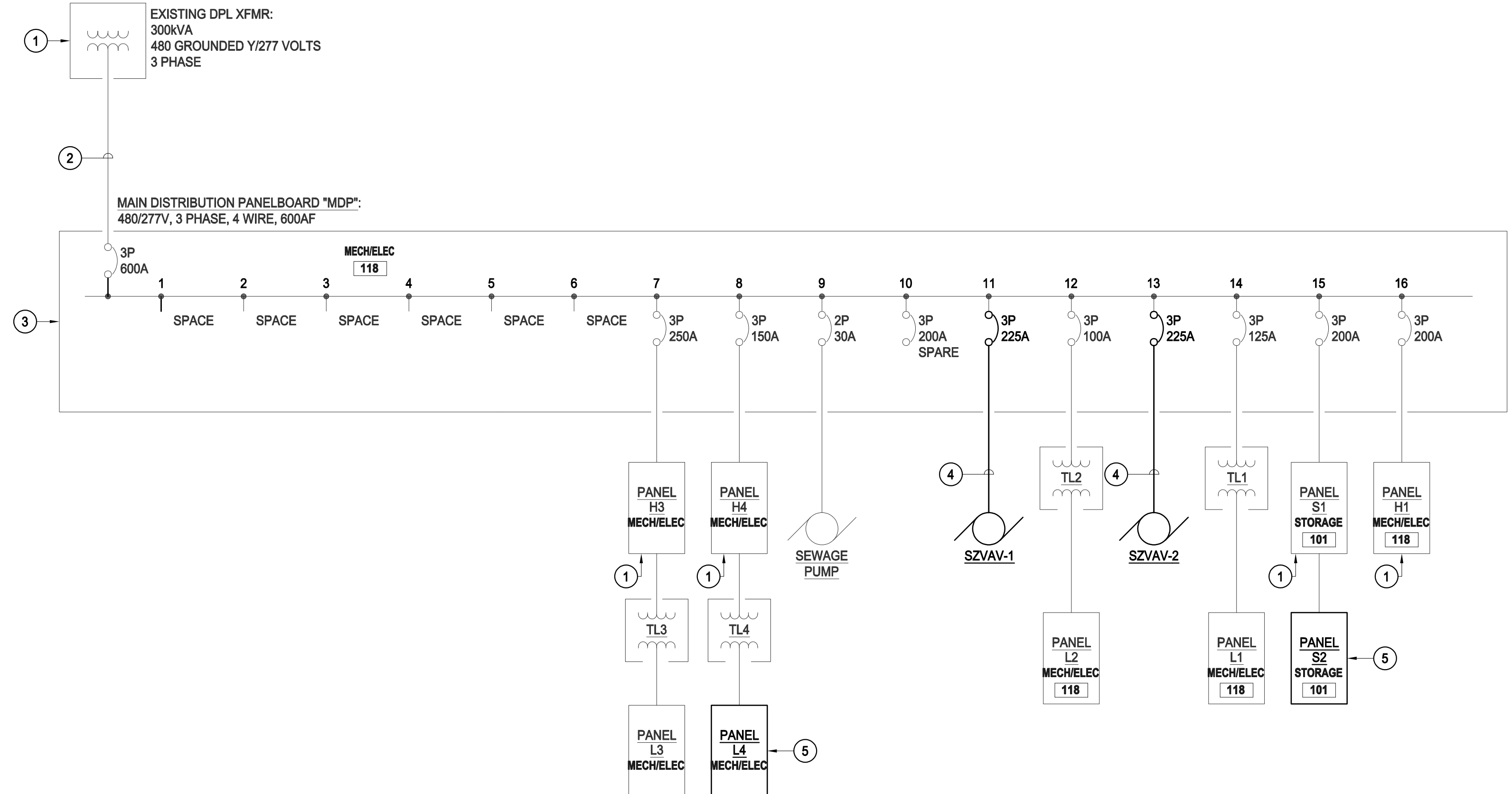
6030 PUBLIC LANDING RD,
SNOW HILL, MD 21863

SUBMISSION

BID DOCUMENTS

**SINGLE LINE DIAGRAM
ELECTRICAL**

DESIGNED BY	TMC	E601
CHECKED BY	CDH	
SCALE	AS NOTED	
JOB NO.	25092	
DATE	03/12/2008	



- NOTES:**
- 1. PARTIAL SINGLE LINE DIAGRAM IS SHOWN TO CONVEY INFORMATION NEEDED TO COMPLETE THE SPECIFIED POWER SYSTEMS STUDY.
 - 2. CONTRACTOR TO CONFIRM ALL CONDUCTOR LENGTHS BASED ON ACTUAL ROUTING.
 - 3. ELECTRICAL DISTRIBUTION SYSTEM FROM EXISTING TRANSFORMER THROUGH EXISTING DISTRIBUTION PANELBOARD SERVING NEW HVAC EQUIPMENT SHALL BE EVALUATED IN SHORT CIRCUIT ANALYSIS TO ENSURE EQUIPMENT AIC/SCCR RATING EXCEEDS MAXIMUM AVAILABLE FAULT CURRENT. PROVIDE LABELS INDICATING MAXIMUM AVAILABLE FAULT CURRENT AT "MDP", SZVAV-1, AND SZVAV-2.

SINGLE LINE DIAGRAM - ELECTRICAL