



## DEPARTMENT OF ENVIRONMENTAL SERVICES

Division of Transportation  
Transit Bureau  
2100 Clarendon Boulevard, Suite 900, Arlington, VA 22201  
Phone: 703.228.3681 Fax: 703.228.7548 www.arlingtonva.us

### Design Team:

Architectural/Engineering Services

**STV Incorporated**  
2722 Merrilee Dr. Suite 350, Fairfax, VA 22031  
571.633.2220 www.stvinc.com

Vertical Transportation

**Van Deusen & Associates**  
1025 Connecticut Ave, NW, Suite 1000, Washington, DC 20036  
202.828.1236 www.vdassoc.com

Cost Estimating & Scheduling

**VJ Associates**  
1825 K Street NW, Suite 1100, Washington, DC 20006  
202.609.7480 www.vjassociates.com

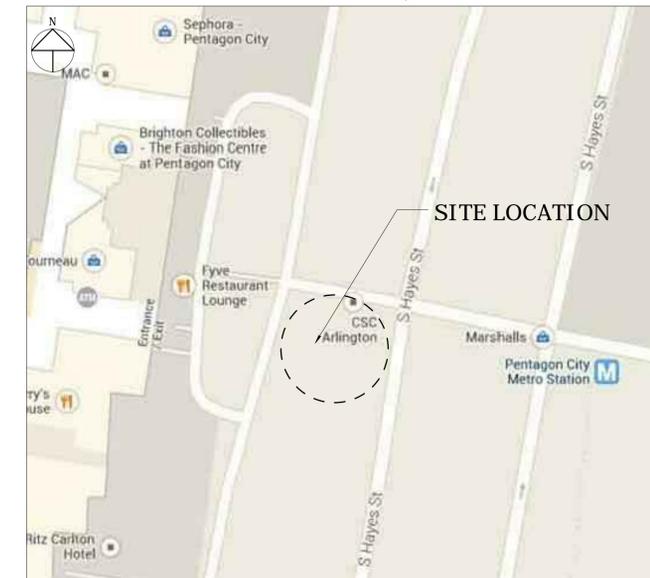
Survey and Utility Designation

**Cervantes & Associates, P.C.**  
4229 Lafayette Center Dr, Suite 1125, Chantilly, VA 20151  
703.691.4114 www.cervantes-associates.com

## Location Map

SCALE: N.T.S.

### Vicinity



# 100% Design Drawings For: Pentagon City Station Second Elevator Project

South Hayes Street

STV Project Number: 4018669

WMATA Project Number: 251666

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I CERTIFY THAT THIS PROJECT WAS BUILT IN SUBSTANTIAL CONFORMANCE WITH THIS PLAN, UNLESS DULY NOTED IN THE ABOVE REVISION BLOCK.

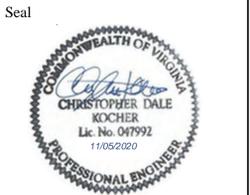
PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
CONSTRUCTION MANAGER \_\_\_\_\_ DATE \_\_\_\_\_

## General Notes:

- ALL ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88)
- ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE "ARLINGTON COUNTY, DEPARTMENT OF ENVIRONMENTAL SERVICES, CONSTRUCTION STANDARDS AND SPECIFICATIONS" MANUAL OF 2008 AND ANY SPECIAL PROVISIONS AND SPECIAL DESIGN FOR STREETS, STORM SEWER, AND UTILITY CONSTRUCTION AS PROVIDED ON THESE PLANS OR IN THE BID PROPOSAL. COPIES OF THE "CONSTRUCTION STANDARDS AND SPECIFICATIONS" MANUAL MAY BE PURCHASED AT A COST OF \$30.00 PER HARD COPY OR CAN BE DOWNLOADED AT NO COST AT: [HTTP://WWW.ARLINGTONVA.US/DEPARTMENTS/ENVIRONMENTALSERVICES/CPE/ENVIRONMENTALSERVICESPECS.ASPX](http://www.arlingtonva.us/departments/environmentalservices/cpe/environmentalservicespecs.aspx)
- THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 811 FOR MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES (i.e. WATER, SEWER, GAS, TELEPHONE, ELECTRIC, AND CABLE TV) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION OR CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO IDENTIFY AND PROTECT ALL OTHER UTILITY LINES FOUND IN THE WORK SITE AREA BELONGING TO OTHER OWNERS THAT ARE NOT MEMBERS OF "MISS UTILITY".
- WITH 48 HOURS NOTICE, THE COUNTY WILL PROVIDE CONSTRUCTION STAKES FOR LINE AND GRADE AND THE PREPARATION OF CUT SHEETS RELATED TO THIS PROJECT AT NO CHARGE TO THE CONTRACTOR.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM BEST AVAILABLE RECORDS AND MUST BE CONSIDERED TO BE APPROXIMATE. WHEN CONSTRUCTION ACTIVITY REACHES IN PROXIMITY TO EXISTING UTILITIES, THE TRENCHES SHALL BE OPENED A SUFFICIENT DISTANCE AHEAD OF THE WORK OR TEST FITS SHALL BE MADE TO VERIFY THE EXACT LOCATION AND INVERTS OF THE UTILITY TO ALLOW FOR POSSIBLE CHANGES IN THE LINE OR GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITIES AND THE RELATED STRUCTURES. ALL EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEM DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
- FOR CONTROL AND MAINTENANCE OF TRAFFIC REFER TO CONTRACT SPECIAL PROVISION, MAINTENANCE OF TRAFFIC, LOCATED IN THE BID PROPOSAL.
- CONCRETE CRADLES SHALL BE PROVIDED AT ALL SANITARY LATERAL CROSSINGS. IF SO DESIRED BY THE ENGINEER, ADDITIONAL CONCRETE CRADLES SHALL BE PROVIDED TO PROTECT OTHER UTILITIES WITHIN THE CONSTRUCTION LIMITS. THE CONCRETE CRADLES AND ENCASEMENTS SHALL BE PAID FOR AT THE STIPULATED UNIT PRICE.
- ALL UNSUITABLE BACKFILL MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE. SUITABLE BACKFILL MATERIAL MAY BE REUSED ANYWHERE ON THE JOB AND MAY BE STOCKPILED FOR REUSE. STORING, TRANSPORTATION, LOADING, AND OTHER ASSOCIATED COST ARE TO BE INCLUDED IN THE UNIT BID PRICE FOR PIPE IN PLACE. STORAGE AREAS WILL NOT BE PROVIDED BY ARLINGTON COUNTY.
- ALL CONCRETE ON THIS PROJECT SHALL BE CLASS "A-3", AIR ENTRAINED CONCRETE UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL USE A CURING COMPOUND TO TREAT ALL EXPOSED CONCRETE.
- THE REMOVAL COST OF ANY EXISTING PAVEMENT, CURB AND GUTTER, SIDEWALKS, APRONS, ETC. IS TO BE INCLUDED IN THE UNIT PRICE BID FOR EXCAVATION. THE CONTRACTORS ARE HEREBY ADVISED THAT THEY MAY DUMP EXCAVATED CONCRETE CURB AND GUTTER AND SIDEWALK (NO REINFORCING STEEL OR WIRE) AT ARLINGTON COUNTY TRADES CENTER LOCATED AT 4300 29TH STREET SOUTH.
- THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE SITE AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION AND SHALL ENSURE THE SAFETY OF PEDESTRIANS FROM TRAFFIC AND CONSTRUCTION HAZARDS.
- EXISTING DRAINAGE FACILITIES AFFECTED BY THIS PROPOSED PROJECT SHALL BE CLEANED OUT TO THE SATISFACTION OF THE COUNTY. THE COST IS INCIDENTAL AND SHALL BE INCLUDED IN THE CONTRACT PRICE OF OTHER ITEMS.
- CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY TRAFFIC CONTROL SIGNS, PARKING METERS OR ANY OTHER TRAFFIC CONTROL DEVICE WITHOUT PRIOR PERMISSION FROM THE TRANSPORTATION DIVISION AT (703) 228-3575 OR 228-6512.
- PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS THAT PERTAIN TO THIS PROJECT SHALL BE PROVIDED AND INSTALLED BY ARLINGTON COUNTY TRAFFIC ENGINEERING BUREAU. THE CONTRACTOR SHALL COORDINATE WITH ARLINGTON COUNTY, TRAFFIC BUREAU.
- ABANDONING EXISTING STRUCTURES AND PIPELINES, EXCAVATE AND REMOVE EXISTING STRUCTURE AND STORM SEWER LINES OR ABANDON IN PLACE BY FILLING PIPE WITH FLOWABLE FILL AND PLUGGING AT ALL OPEN ENDS. EXCAVATE AND REMOVE STRUCTURE TO A MINIMUM OF 2 FEET BELOW FINISHED GRADE. FILL THE STRUCTURE WITH SAND OR #57 AGGREGATE MATERIAL. THE PRICE FOR ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PIPE IN PLACE.
- EXISTING UTILITY SYSTEMS SHALL BE PROTECTED TO PREVENT DAMAGE DURING THE CONTRACTOR'S OPERATIONS. ANY SYSTEMS DAMAGED SHALL BE PROMPTLY REPAIRED AT NO COST TO THE OWNER.
- HELICAL PILE FOUNDATIONS AS DEPICTED WITHIN THE CONSTRUCTION DOCUMENTS ARE CONCEPTUAL BASED ON A PROPRIETARY PRODUCT SYSTEM. THE DESIGN THEREOF SHALL BE FINALIZED AS PART OF THE DELEGATED DESIGN UNDER THE GENERAL CONSTRUCTION CONTRACT.
- THE INSTALLATION OF THE ELEVATOR WILL BE COMPLETED BY OTHERS. SUBMIT THE ELEVATOR PERMIT TO STEVE FRANCISCO IN CODE ENFORCEMENT. HIS CONTACT NUMBER IS 703-228-3874



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Approvals	Date
Tracy D. Twyman, P.C. WMATA PROJECT MANAGER	11/20/2020
[Signature] FD&C BUREAU CHIEF	11/23/20
Azan S. Jaymand FD&C PROJECT MANAGER	11/23/20
Lynn Rivers TRANSIT BUREAU CHIEF	11/23/20
Robin MacChanny TRANSIT PROJECT MANAGER	11/23/20
[Signature] WATER, SEWER STREETS BUREAU CHIEF	11-23-20
Dennis M. Leach TRANSPORTATION DIRECTOR	11/23/20

Revisions	Date
ISSUED FOR CONSTRUCTION	11-20-2020

Project Name and Location  
**Pentagon City Station  
Elevator Project**  
Cover Sheet  
South Hayes Street  
G-000

Designed: CK  
Drawn: CK  
Checked: AK  
Miss Utility Transmittal #:

Filename:  
Path:  
Plotted:  
Plotted by:

Scale: NONE

100% PLANS - FOR CONSTRUCTION

Sheet 1 OF 68

## HEAT PUMP UNIT SCHEDULE

MARK	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	COOLING MBH	AMB TEMP °F	HEATING MBH @ 47°F	HEATING MBH @ 17°F	REFRIGERANT QUANTITY	REFRIGERANT TYPE	COMPRESSOR FAN				COMPRESSOR			VOLTS	PHASE	Hz	MCA	MOCP	NOTES
									CFM	NO.	FLA	WATTS	NO.	RLA	LRA						
HP-1	mitsubishi	PUZ-A36NHA4	34.2	95	38.0	25.0	6 LBS., 10 OZ	R-410A	1940	1	0.75	75	1	12	17.5	208	1	60	25	40	1, 2, 3, 4, 5, 6, 7, 8

- NOTES:
1. PROVIDE STANDARD FEATURES: HIGH PRESSURE SENSOR, HIGH PRESSURE SWITCH, OVERHEAT PROTECTION, OVER-CURRENT PROTECTION.
  2. PROVIDE TWO WIND BAFFLES (WB-PA3) AND TWO OUTLET GUIDES (PAC-SH06SG-E) FOR LOW AMBIENT OPERATION (DOWN TO 5°F).
  3. PROVIDE WITH MA REMOTE CONTROLLER (PAR-33MAA-J) WITH THERMOSTAT. FIELD INSTALLED AND WIRED.
  4. PROVIDE BACnet INTERFACE (PAC-UKPRC001-CN-1) FIELD INSTALLED AND WIRED.
  5. CONTRACTOR SHALL PROVIDE ANGLED STEEL SUPPORT AND SECURE UNIT TO THE EXTERIOR.
  6. CONTRACTOR SHALL PROVIDE FOR INTERCONNECTING REFRIGERANT PIPE, INSULATION, PIPE HANGERS AND CONTROL WIRING. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
  7. PROVIDE NEMA 3R FUSED DISCONNECT, WALL MOUNT ADJACENT TO CU UNIT.

## FAN COIL SCHEDULE

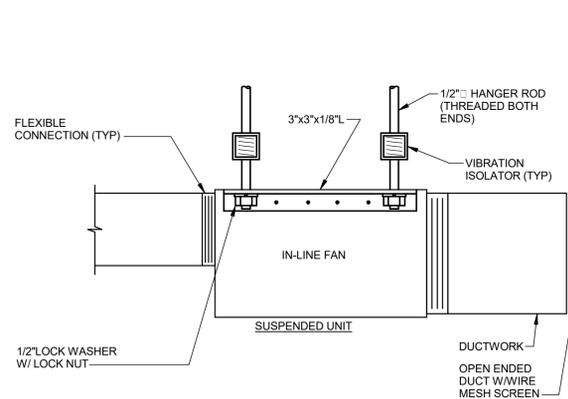
MARK	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	CFM	ESP IN. W.G.	TOTAL MBH	SENSIBLE MBH	ROOM TEMP °F db/°F wb	MCA	FLA	VOLTS	PHASE	Hz	NOTES
FC-1	mitsubishi	PKA-A36KA4	705, 810, 920	N/A DUCTLESS	34.2	23.9	80 / 67	1	0.57	208	1	60	1, 2, 3

- NOTES:
1. STANDARD FEATURES: POLYPROPYLENE HONEYCOMB AIR FILTER.
  2. PROVIDE UNIT WITH MULTI-SPEEDS.
  3. CONTRACTOR SHALL PROVIDE MANUFACTURERS WALL MOUNT BRACKET.

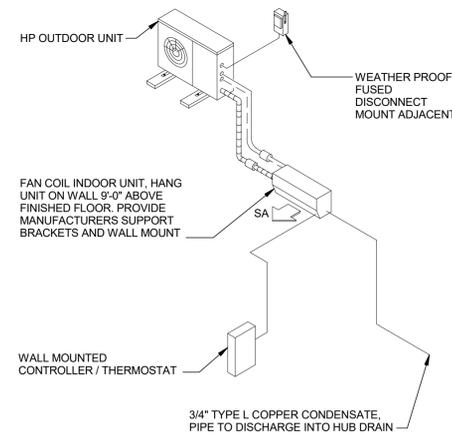
## FAN SCHEDULE

MARK	MFR	MODEL	TYPE	CFM	RPM	EXTERNAL SP (IN WG)	DRIVE	MOTOR						NOTE
								RPM	BHP	HP	VOLTS	PHASE	Hz	
EF-1	GREENHECK	SQ-97-VG	CENTRIFUGAL INLINE	400 / 100	2251	0.54	DIRECT	2500	0.39	1/2	115	1	60	1,2,3,4,5,6,7

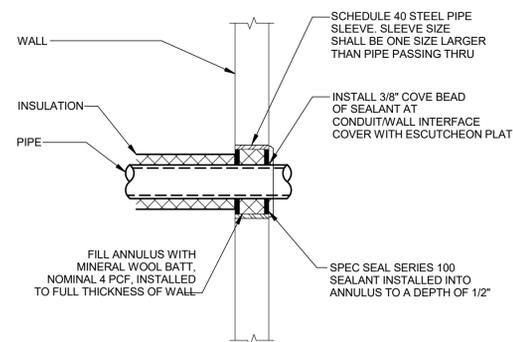
- NOTES:
1. SPEED CONTROLLER MOUNTED AND WIRED ON FAN HOUSING
  2. UL/UL 705 LISTED - POWER VENTILATORS
  3. SWITCH, NEMA-1 TOGGLE WITH JUNCTION BOX MOUNTED AND WIRED
  4. MOTOR COVER AND INLET GUARD
  5. ISOLATOR AND BRACKETS, SPRING HANGING - FIELD INSTALLED
  6. PROVIDE CERTIFICATION OF COMPLIANCE FOR FTA BUY AMERICA.



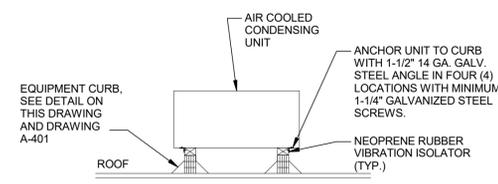
**1 IN-LINE FAN SUPPORT DETAIL**  
NO SCALE



**2 (FC-1 / HP-1) DETAIL**  
NO SCALE



**3 PIPE PENETRATION DETAIL**  
NO SCALE



**4 HEAT PUMP (HP-1) SUPPORT DETAIL**  
NO SCALE

## GENERAL SHEET NOTES

1. FOR MECHANICAL SYMBOLS AND ABBREVIATIONS SEE DRAWING M-001.

## SHEET LEGEND

### MISCELLANEOUS SYMBOLS

SYMBOL	DESCRIPTION
	SHEET KEY NOTE
	EQUIPMENT SYMBOL (SEE SCHEDULE)
	EQUIPMENT DESIGNATION
	EQUIPMENT REFERENCE NUMBER
	AUTOMATIC DAMPER

### CONTROL DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION
	CURRENT SENSOR
	DAMPER OPERATOR
	END SWITCH
	HUMIDISTAT
	HUMIDITY SENSOR
	HAND-OFF-AUTOMATIC SWITCH
	MOTOR STARTER WITH HAND-OFF-AUTOMATIC SWITCH
	MOTOR
	MOTOR STARTER
	NORMALLY CLOSED
	NORMALLY OPEN
	RELAY
	THERMOSTAT
	TEMPERATURE SENSOR
	AUTOMATIC TEMPERATURE CONTROL PANEL
	REFRIGERANT MONITOR WITH HORN/STROBE
	REFRIGERANT SENSOR
	HORN AND STROBE

### ABBREVIATIONS

DESIGNATION	DESCRIPTION
EF	EXHAUST FAN
FC	FAN COIL
HP	HEAT PUMP
L	LOUVER
AC/DC	ALTERNATING CURRENT / DIRECT CURRENT
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
dB	DECIBEL
AD	AUTOMATIC DAMPER



Approvals \_\_\_\_\_ Date \_\_\_\_\_

WMATA PROJECT MANAGER \_\_\_\_\_

FD&C BUREAU CHIEF \_\_\_\_\_

FD&C PROJECT MANAGER \_\_\_\_\_

TRANSIT BUREAU CHIEF \_\_\_\_\_

TRANSIT PROJECT MANAGER \_\_\_\_\_

WATER, SEWER STREETS BUREAU CHIEF \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

Revisions \_\_\_\_\_ Date \_\_\_\_\_

ISSUED FOR CONSTRUCTION 11-20-2020

Project Name and Location  
**Pentagon City Station Elevator Project**  
 Legend, Schedule and Details  
 South Hayes Street  
 M-001

Designed: PM  
 Drawn: PM  
 Checked: JH  
 Miss Utility Transmittal #:

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 Plotted: 5/6/2020 12:00:53 PM  
 Plotted by:

Scale: NONE

**100% PLANS - FOR CONSTRUCTION**



Approvals	Date
WMATA PROJECT MANAGER	
FD&C BUREAU CHIEF	
FD&C PROJECT MANAGER	
TRANSIT BUREAU CHIEF	
TRANSIT PROJECT MANAGER	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions	Date
ISSUED FOR CONSTRUCTION	11-20-2020

Project Name and Location  
**Pentagon City Station  
Elevator Project**  
Mechanical Floor Plan and Elevations  
South Hayes Street  
M-101

Designed: PM  
Drawn: PM  
Checked: JH  
Miss Utility Transmittal #:

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Plotted: 5/6/2020 12:00:53 PM  
Plotted by:

Scale: 1/4" = 1'-0"

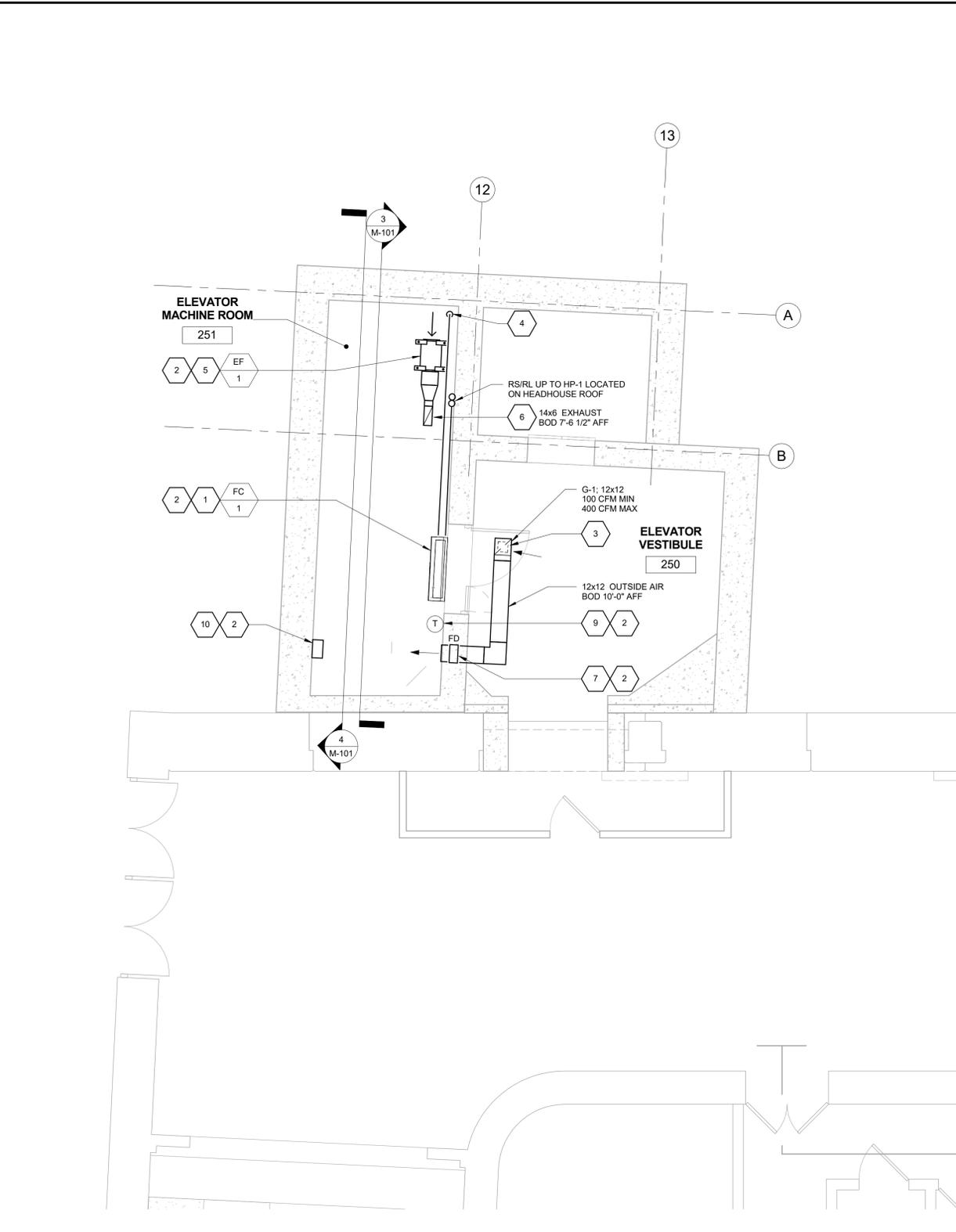
100% PLANS - FOR CONSTRUCTION

**GENERAL SHEET NOTES**

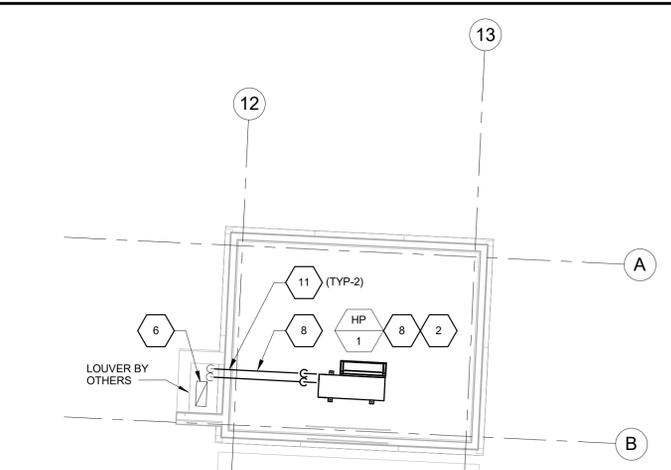
- ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTS AND FASTENERS SHALL BE GALVANIZED STEEL.
- PROVIDE SPLIT SYSTEM INDOOR UNIT (FC-1) AS SCHEDULED. MOUNT BOTTOM OF UNIT AT 7'-6" ABOVE FLOOR.
- PROVIDE EQUIPMENT LABEL PER SPECIFICATIONS SECTION 15075.
- PROVIDE GRILLE (G-1), 24x24 FACE LAY-IN, 12x12 NECK, TITUS MODEL 350RL OR APPROVED EQUAL.
- CONNECT TO 3/4" CONDENSATE DRAIN DISCHARGE AND PROVIDE TRAP AND EXTEND 3/4" COPPER TYPE L TO DISCHARGE INTO NEAREST FLOOR DRAIN. SLOPE PIPING 1/4" PER FOOT FROM TRAP TO DRAIN.
- PROVIDE EXHAUST FAN (EF-1) AS SCHEDULED. MOUNT BOTTOM OF FAN AT 7'-8" ABOVE FLOOR. SHEET METAL DUCT SHALL CONNECT TO EXHAUST FAN WITH A FLEXIBLE CONNECTOR AND SHALL TRANSITION TO 14x6 DUCT.
- PROVIDE 14x6 EXHAUST DUCT WITH FIRE DAMPER AND SLEEVE AND WITH ACCESS DOOR. MOUNT BOTTOM OF DUCT AT 7'-6 1/2" ABOVE FLOOR. MOUNT FIRE DAMPER AT THE CEILING PENETRATION. FIRE DAMPER SHALL BE RUSKIN D1BD2 TYPE 'B', 1-1/2 HOUR, UL555 RATED OR APPROVED EQUAL. TERMINATE EXHAUST DUCT WITH 1/2"x1/2" WIRE MESH SCREEN ON OPEN END DUCT AT A HEIGHT 3" BELOW THE TOP OF LOUVER OPENING.
- PROVIDE 12x12 OUTSIDE AIR DUCT WITH FIRE DAMPER AND SLEEVE ACOUSTICALLY LINED WITH ACCESS DOOR. TERMINATE IN ELEVATOR MACHINE ROOM WITH OPEN END DUCT WITH REMOVABLE 1/2"x1/2" WIRE MESH SCREEN. MOUNT BOTTOM OF DUCT AT 10'-6" ABOVE FLOOR. MOUNT FIRE DAMPER IN WALL. FIRE DAMPER SHALL BE RUSKIN D1BD2 TYPE 'B', 1-1/2 HOUR, UL555 RATED OR APPROVED EQUAL.
- PROVIDE SPLIT SYSTEM OUTDOOR HEAT PUMP AS SCHEDULED. MOUNT ON 12" HIGH CURB. ANCHOR UNIT TO CURB. SEE DETAIL 4 ON M-001. PROVIDE INTERCONNECTING REFRIGERANT PIPING (PER SECTION 15205) AND CONTROL WIRING. COORDINATE WORK WITH ELECTRICAL CONTRACTOR. PROVIDE 1" THICK INSULATION WITH ALUMINUM JACKET PER SPECIFICATION SECTION 15080, 2.01, C, 4.
- PROVIDE AND MOUNT HP-1 THERMOSTAT AT 48 INCHES ABOVE FLOOR. CONNECT THERMOSTAT TO HP-1.
- PROVIDE COMMUNICATIONS PANEL AND MOUNT 48" ABOVE FLOOR. PROVIDE IN THE PANEL ENCLOSURE A DDC CONTROLLER WITH DISPLAY AND PUSH BUTTONS TO ADJUST SET POINTS, VIEW STATUS AND EVENT LOG. DDC CONTROLLER SHALL HAVE STAND ALONE CONTROL AND SHALL BE BACKUP CAPABLE. PROVIDE FIELD WIRING CONNECTIONS TO EXHAUST FAN (EF-1), PROVIDE DDC CONTROLLER PROGRAMMING. CONNECT FROM EF-1, AC-1 AND CU-1 TO HVAC COMMUNICATIONS PANEL. COMMUNICATION PANEL SHALL PROVIDE NECESSARY INTERFACE CAPABILITY FOR COMPLETE COMBATIBILITY WITH THE EXISTING WMATA DTS SYSTEM. REFER TO SPECIFICATION SECTION 16925 FOR REMOTE TERMINAL UNIT (RTU) REQUIREMENTS FOR THE REQUIRED CAPABILITIES FOR INTERFACING WITH THE EXISTING DATA TRANSMISSION SYSTEM (DTS). CONNECTION FROM HVAC COMMUNICATIONS PANEL TO OWNER'S BMS FRONT END IS NOT REQUIRED UNDER THE SCOPE OF THIS PROJECT.
- PROVIDE PIPE SLEEVE PER SECTION 15205, 2, K, 7. PIPE SLEEVE SHALL BE MINIMUM TWO SIZES LARGER THAN PIPE. SLEEVE TO PROJECT FOUR INCHES ABOVE FINISH FLOOR. PROVIDE FIRE STOP PER SECTION 07841.

**SHEET KEYNOTES**

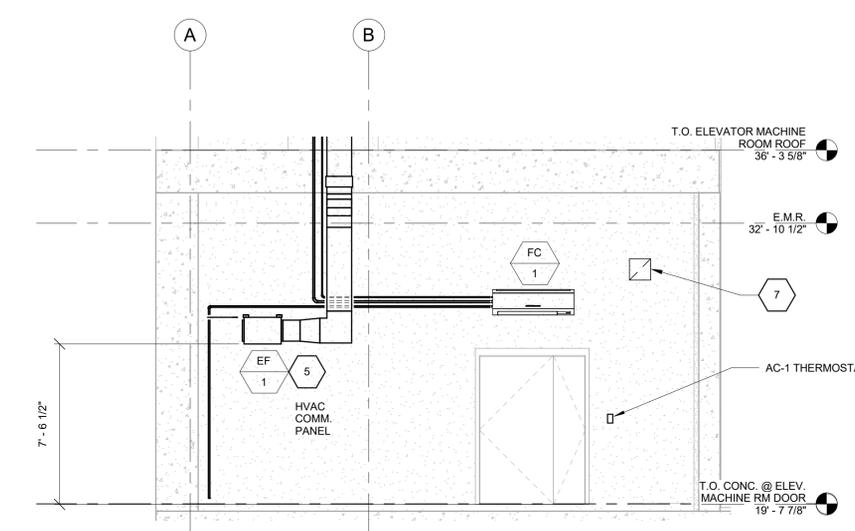
- PROVIDE SPLIT SYSTEM INDOOR UNIT (FC-1) AS SCHEDULED. MOUNT BOTTOM OF UNIT AT 7'-6" ABOVE FLOOR.



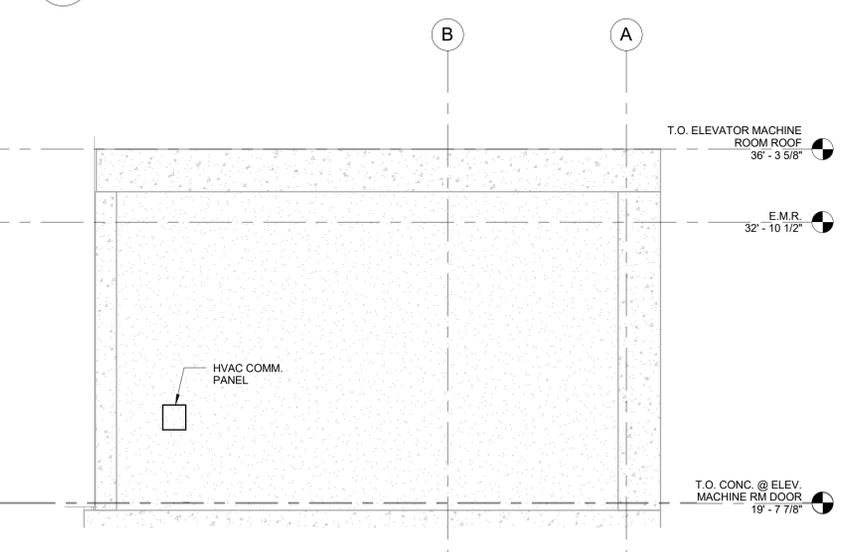
**FLOOR PLAN**  
1  
M-101  
1/4" = 1'-0"  
0 4' 8' 12'



**HEADHOUSE ROOF PLAN**  
2  
M-101  
1/4" = 1'-0"  
0 4' 8' 12'



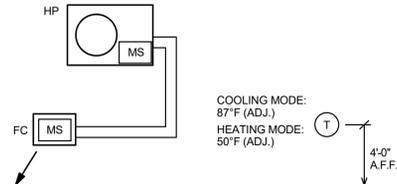
**ELEVATOR MACHINE ROOM - VIEW EAST**  
3  
M-101  
1/4" = 1'-0"



**ELEVATOR MACHINE ROOM - VIEW WEST**  
4  
M-101  
1/4" = 1'-0"

**GENERAL SHEET NOTES**

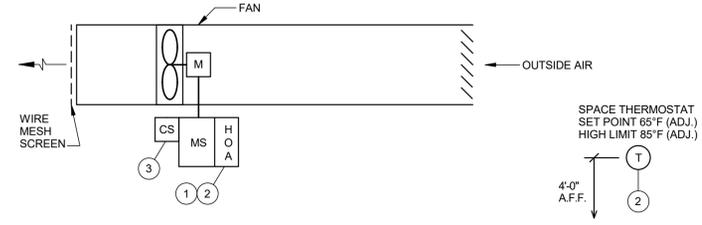
1. FOR MECHANICAL SYMBOLS AND ABBREVIATIONS SEE DRAWING M-001.



**1 (FC-1 / HP-1) CONTROL DIAGRAM**  
M-501 NO SCALE

**SEQUENCE OF OPERATION:**

- 1 USING MANUFACTURER'S SEQUENCES:  
COOLING MODE: SPACE THERMOSTAT STARTS FAN COIL & AND HEAT PUMP UNIT WHEN SPACE TEMPERATURE RISES ABOVE SETPOINT (87°F ADJ.). REVERSE SHALL OCCUR WHEN SPACE TEMPERATURE DROPS BELOW SETPOINT.
- 2 USING MANUFACTURER'S SEQUENCES:  
HEATING MODE: SPACE THERMOSTAT STARTS FAN COIL & AND HEAT PUMP UNIT WHEN SPACE TEMPERATURE DROPS BELOW SETPOINT (50°F ADJ.). REVERSE SHALL OCCUR WHEN SPACE TEMPERATURE RISES ABOVE SETPOINT.



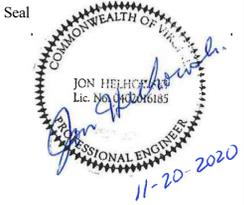
**2 MECHANICAL ROOM VENTILATION**  
M-501 NO SCALE

**SEQUENCE OF OPERATION:**

- 1 WHEN "HAND-OFF-AUTO" SWITCH IS IN HAND POSITION THE FAN RUNS. WHEN SWITCH IS IN "AUTO" POSITION THE FAN IS CONTROLLED BY THE THERMOSTAT. WHEN THE SWITCH IS IN THE "OFF" POSITION THE FAN IS SHUT DOWN.
- 2 SPACE THERMOSTAT STARTS FAN WHEN SPACE TEMPERATURE RISES ABOVE 65°F (ADJ.). THE FAN SHALL TURN OFF WHEN SPACE TEMPERATURE IS ABOVE 85°F (ADJ.) OR BELOW 65°F (ADJ.).
- 3 CURRENT SENSOR MONITORS RUNNING CONDITION (ON-OFF).



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Approvals	Date
WMATA PROJECT MANAGER	
FD&C BUREAU CHIEF	
FD&C PROJECT MANAGER	
TRANSIT BUREAU CHIEF	
TRANSIT PROJECT MANAGER	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions	Date
ISSUED FOR CONSTRUCTION	11-20-2020

Project Name and Location  
**Pentagon City Station  
Elevator Project**  
Control Diagrams  
South Hayes Street  
M-501

Designed: PM  
Drawn: PM  
Checked: JH  
Miss Utility Transmittal #:

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Path: I:\Projects\2515872\  
Plotted: 5/6/2020 12:00:53 PM  
Plotted by:

Scale:

**100% PLANS - FOR CONSTRUCTION**

**LEGEND**

-  LIGHTING FIXTURE IDENTIFICATION  
FIXTURE TYPE - SEE LIGHTING FIXTURE SCHEDULE
-  LED LIGHTING FIXTURE - SURFACE OR PENDANT MOUNT
-  LED NORMAL/EMERGENCY LIGHTING (UNSWITCHED) FIXTURE
-  RECESSED LED DOWNLIGHT
-  RECESSED NORMAL/EMERGENCY LED DOWNLIGHT
-  LIGHT SWITCH - MOUNT 4'-0" AFF, UNLESS OTHERWISE NOTED  
- T INDICATES TIMER SWITCH, WP - INDICATES PROVIDE WEATHERPROOF COVER
-  DUPLEX RECEPTACLE - 2 POLE, 3 WIRE, 20 AMP, 125 VOLT, NEMA 5-20R - MOUNT 1'-6" AFF, UNLESS OTHERWISE NOTED
-  DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER - 2 POLE, 3 WIRE, 20 AMP, 125 VOLT, NEMA 5-20R - MOUNT 1'-6" AFF, UNLESS OTHERWISE NOTED - WP INDICATES WEATHERPROOF
-  BRANCH CIRCUIT EXPOSED ON WALL OR CEILING
-  HOMERUN TO PANEL - A NUMERAL AT EACH ARROW IS USED TO IDENTIFY CIRCUIT NUMBERS
-  CONDUIT TURNING DOWN
-  NON-FUSED DISCONNECT SWITCH - NUMBER OF POLES, AMPERE RATING, VOLTAGE AND NEMA TYPE ENCLOSURE AS INDICATED - MOUNT 4'-6" AFF TO CENTERLINE OF HANDLE
-  FUSED DISCONNECT SWITCH - NUMBER OF POLES, AMPERE RATING, VOLTAGE AND NEMA TYPE ENCLOSURE AS INDICATED - MOUNT 4'-6" AFF TO CENTERLINE OF HANDLE
-  ENCLOSED SHUNT-TRIP CIRCUIT BREAKER - NUMBER OF POLES, AMPERE RATING, VOLTAGE AND NEMA TYPE ENCLOSURE AS INDICATED - MOUNT 4'-6" AFF TO CENTERLINE OF HANDLE
-  PANELBOARD
-  JUNCTION BOX
-  TIME CLOCK
-  PHOTOCCELL - MOUNT ON ELEVATOR ROOF

**LIGHTING FIXTURE SCHEDULE**

TYPE	MANUFACTURER	CATALOG NO	DESCRIPTION	LAMPS			ENVIRONMENT	MOUNTING		VOLTS	NOTES
				NO	WATTS	TYPE		TYPE	HEIGHT		
A	LITHONIA	ZL2N L48 3000LM MDD MVOLT 30K 80CRI	4' STRIP LIGHT	-	42	LED	IN	P	7'-6"	120	
B	GOTHAM	EVO 30/10 4AR WD LSS MVOLT	6" RECESSED DOWNLIGHT	-	17.3	LED	IN	R	-	120	
C	LITHONIA	DMW2 L24 2000LM ACL MD MVOLT 30K 80CRI	ENCLOSED AND GASKETED	-	18.8	LED	DL	W S	7'-0"	120	
D	CALI	ALS50T-LE-NA-LED-3.0K-3W-SO-WET-IP67-120V	COVE LIGHT	-	3W/LF	LED	WL	R	-	120	
F	PRUDENTIAL	P40-LED3-LO-3'-YSL-SAL-D1-SC-UNV-WB	CONTINUOUS LIGHT	-	10	LED	DL	S	8'-7"	120	

LEGEND:  
LAMP TYPE - FL, FLUORESCENT; IN, INCANDESCENT; MV, MERCURY VAPOR; MH, METAL HALIDE; HP, HIGH PRESSURE SODIUM; P, LOW PRESSURE SODIUM; Q, QUARTZ; LED, LIGHT EMITTING DIODE  
ENVIRONMENT - IN, INDOOR; DL, DAMP LOCATION; WL, WET LOCATION; HZ, HAZARDOUS; CR, CORROSIVE  
MOUNTING TYPE - R, RECESSED; S, SURFACE; P, PENDANT; W, WALL; PL, POLE; ST, STANCHION

NOTES:  
1. MOUNTING HEIGHT INDICATED ON LIGHTING PLANS ARE FROM ABOVE FINISHED FLOOR (AFF) TO BOTTOM OF LIGHTING FIXTURE.

**RECEPTACLE WIRING AND CONDUIT SCHEDULE**

RECEPTACLE	CONDUCTORS		GROUND SIZE	CONDUIT MINIMUM SIZE	REMARKS
	QUANTITY	MINIMUM SIZE			
	2	#12	#12	3/4"	
	2	#12	#12	3/4"	

**MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE**

EQUIPMENT DESIGNATION	LOAD					BRANCH CIRCUIT WIRING AND CONDUIT	CIRCUIT PROTECTION		BRANCH CIRCUIT NO	ASSOCIATED DETAIL
	FLA	HP	KVA	KW	W		DISCONNECT SWITCH	COMBINATION MOTOR STARTER		
FC-1	6.8	2.1	-	1.4	-	2#12&1#12G-3/4"CND	-	-	EP-8,10	
HP-1	25	-	-	-	-	2#8&1#10G-1"CND	PROVIDED WITH UNIT	-	EP-1,3	
EF-1	9.8	1/2	-	1.1	-	2#12&1#12G-3/4"CND	PROVIDED WITH FAN	-	EP-7	

NOTES:

**GENERAL ELECTRICAL NOTES**

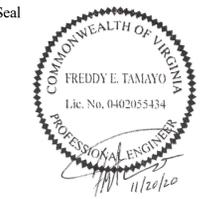
- CONTRACTOR SHALL PROVIDE BRANCH CIRCUIT WIRING TO ALL ITEMS THAT REQUIRE ELECTRICAL CONNECTIONS. WHERE BRANCH CIRCUIT WIRING IS NOT SHOWN, CONTRACTOR SHALL CONNECT ITEMS TO CIRCUITS INDICATED. EXACT ROUTING OF CONDUITS AND WIRING SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE.
- CONTRACTOR SHALL USE ONLY THOSE WIRING METHODS ALLOWED IN THE SPECIFICATIONS.
- A MAXIMUM OF 3 CIRCUITS SHALL BE RUN IN ONE CONDUIT. CIRCUITS MUST BE ON SEPARATE PHASES. SHARING NEUTRAL CONDUCTORS BETWEEN PHASE CONDUCTORS IS PROHIBITED.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, ALL CONDUCTORS TO BE LSZH. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUIT TO BE RGSC (UNLESS OTHERWISE NOTED).
- ALL WORK SHALL STRICTLY COMPLY WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE.
- LOCATIONS AND MOUNTING HEIGHTS OF EQUIPMENT ARE APPROXIMATE. EXACT LOCATIONS SHALL BE COORDINATED IN FIELD WITH OWNER.
- ELECTRICAL EQUIPMENT LOCATIONS AND RACEWAY ROUTINGS ARE SHOWN DIAGRAMMATICALLY AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION OF ELECTRICAL EQUIPMENT AND RACEWAYS WITH BUILDING STRUCTURE AND OTHER TRADES IN FIELD.
- ALL LIGHTS ASSOCIATED WITH THIS PROJECT ARE INDEPENDENT OF THE ARLINGTON COUNTY STREETLIGHT SYSTEM AND MAINTENANCE WILL BE DONE BY OTHER THAN TE&O PERSONNEL.

**SHEET KEYNOTES**

- PROVIDE NEW 400AS/150AP, 480V CIRCUIT BREAKER IN PLACE OF EXISTING SPARE BREAKER IN EXISTING MSB. CIRCUIT BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL AND HAVE SAME AIC RATINGS AS EXISTING CIRCUIT BREAKERS.
- PROVIDE NEW 3P-60A CIRCUIT BREAKER IN EXISTING PANEL NPO3. CIRCUIT BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL AND HAVE SAME AIC RATINGS AS EXISTING CIRCUIT BREAKERS. CONTRACTOR SHALL MEASURE ACTUAL MAXIMUM DEMAND LOAD PER NEC 220.87 BEFORE MAKING CONNECTIONS. IF PANEL 'NPO3' AT 125% OF MAXIMUM DEMAND LOAD PLUS NEW LOAD IS ABOVE FEEDER RATING, NOTIFY WMATA PROJECT MANAGER.



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Approvals Date

WMATA PROJECT MANAGER \_\_\_\_\_

FD&C BUREAU CHIEF \_\_\_\_\_

FD&C PROJECT MANAGER \_\_\_\_\_

TRANSIT BUREAU CHIEF \_\_\_\_\_

TRANSIT PROJECT MANAGER \_\_\_\_\_

WATER, SEWER STREETS BUREAU CHIEF \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

Revisions Date

ISSUED FOR CONSTRUCTION 11-20-2020

Project Name and Location  
**Pentagon City Station  
Elevator Project**  
Legend, Schedules and General Notes  
South Hayes Street  
E-001

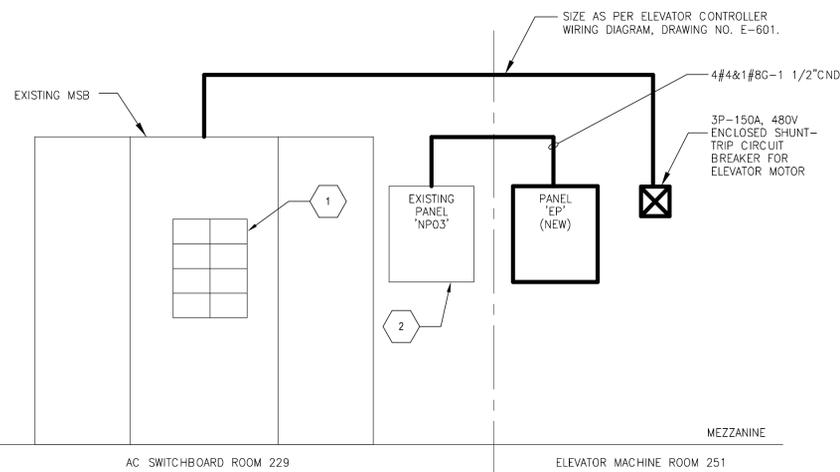
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Drawn: RMT  
Checked: DRW  
Miss Utility Transmittal #:

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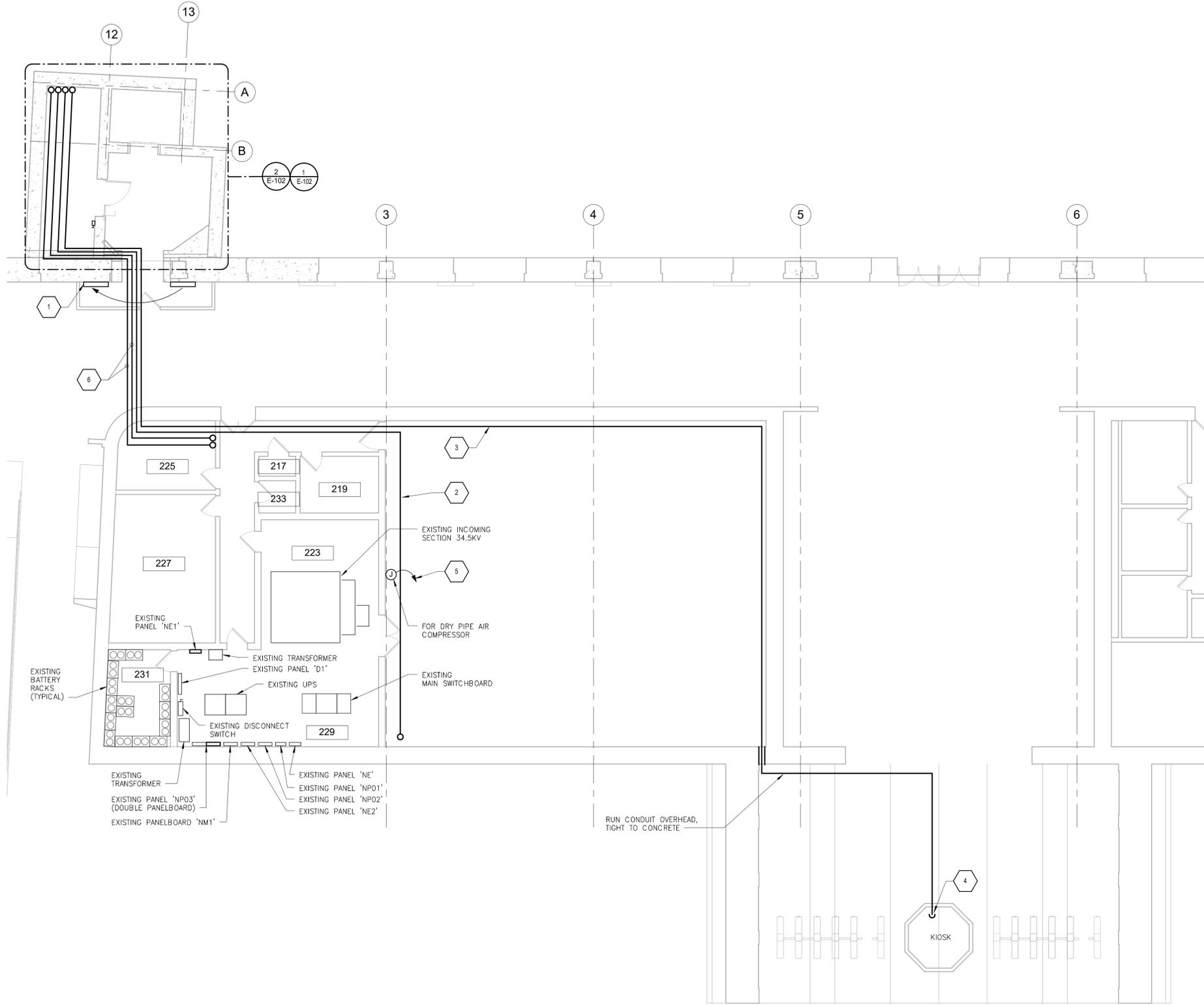
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100% PLANS - FOR CONSTRUCTION

Sheet 50 OF 68



**1 RISER DIAGRAM**  
E-001 NO SCALE




**1**  
**E-101** 1/8" = 1'-0"
 

**GENERAL SHEET NOTES**

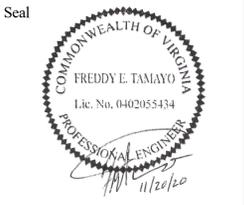
1. FOR LEGEND, SCHEDULES, AND GENERAL ELECTRICAL NOTES SEE SHEET E001.
2. FOR ELEVATOR CONTROLLER WIRING DIAGRAM AND PANEL SCHEDULE SEE SHEET E-601.
3. FOR MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE SEE SHEET E-001.
4. ALL CONDUITS ON MEZZANINE LEVEL TO BE FIBERGLASS.

**SHEET KEYNOTES**

1. RELOCATE EXISTING ADVERTISING SIGN. EXTEND EXISTING WIRING AND CONDUIT SERVING SIGN TO NEW LOCATION AS SHOWN AND RECONNECT.
2. PROVIDE (1) 2" CONDUIT BETWEEN RTU IN MECHANICAL EQUIPMENT AND MACHINE ROOM FOR DATA COMMUNICATION BETWEEN RTU AND ELEVATOR.
3. PROVIDE (1) 2" CONDUIT TO THE KIOSK.
4. ATTACH CONDUIT TO UNDERSIDE OF SLAB. COORDINATE EXACT LOCATION IN FIELD WITH KIOSK.
5. CONNECT DRY PIPE AIR COMPRESSOR TO SPARE 1P-20A CIRCUIT BREAKER IN EXISTING PANEL NPO3. PROVIDE 2#12&1#12G IN 3/4" CONDUIT.
6. PROVIDE (2) 1" CONDUITS TO COMMUNICATIONS ROOM.



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Approvals	Date
WMATA PROJECT MANAGER	
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FD&C PROJECT MANAGER	
TRANSIT BUREAU CHIEF	
TRANSIT PROJECT MANAGER	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions	Date
<b>ISSUED FOR CONSTRUCTION</b>	<b>11-20-2020</b>

Project Name and Location  
**Pentagon City Station  
 Elevator Project**  
 Partial Mezzanine Level Power Plan  
 South Hayes Street  
**E-101**

Designed: JFR  
 Drawn: RMT  
 Checked: DRW  
 Miss Utility Transmittal #:

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**100% PLANS - FOR CONSTRUCTION**

**GENERAL SHEET NOTES**

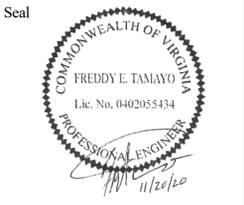
- FOR LEGEND, SCHEDULES, AND GENERAL ELECTRICAL NOTES SEE SHEET E001.
- FOR ELEVATOR CONTROLLER WIRING DIAGRAM AND PANEL SCHEDULE SEE SHEET E-601.
- FOR MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE SEE SHEET E-001.

**SHEET KEYNOTES**

- PROVIDE JUNCTION BOX FOR ELEVATOR CAR LIGHTING AT MIDDLE OF CAR TRAVEL.
- PROVIDE WALL MOUNTED SPRING WOUND TIMER SWITCH FOR ELECTRIC UNIT HEATER.
- CONNECT LIGHTING FIXTURES TO EXISTING LIGHTING BRANCH CIRCUIT SERVING ADJACENT CORRIDOR.
- PROVIDE (2) 1" CONDUITS FROM ELEVATOR MACHINE ROOM TO COMMUNICATIONS ROOM FOR FIRE ALARM AND TELEPHONE.
- PROVIDE (1) 2" CONDUIT FROM ELEVATOR MACHINE ROOM TO RTU.
- PROVIDE (1) 2" CONDUIT TO THE KIOSK.
- CONNECT LIGHTING FIXTURE TO EXISTING EMERGENCY LIGHTING BRANCH CIRCUIT. PROVIDE 2#12&1#12G IN 3/4" CONDUIT AND CONNECT.
- CONNECT LIGHTING FIXTURES TO PANEL EP, CIRCUIT NO. 18 VIA PHOTOCELL AND TIMECLOCK.
- TYPE "D" LIGHTING FIXTURES ARE GROUND-MOUNTED AROUND ELEVATOR ENCLOSURE. REFER TO ARCHITECTURAL DRAWINGS.
- TYPE "F" LIGHTING FIXTURES ARE FACE-MOUNTED CENTERED BETWEEN THE CANOPY BEAMS. REFER TO ARCHITECTURAL DRAWINGS.



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Approvals	Date
WMATA PROJECT MANAGER	
FD&C BUREAU CHIEF	
FD&C PROJECT MANAGER	
TRANSIT BUREAU CHIEF	
TRANSIT PROJECT MANAGER	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions	Date
ISSUED FOR CONSTRUCTION	11-20-2020

Project Name and Location  
**Pentagon City Station  
 Elevator Project**  
 Partial Lighting and Power Plans  
 South Hayes Street  
 E-102

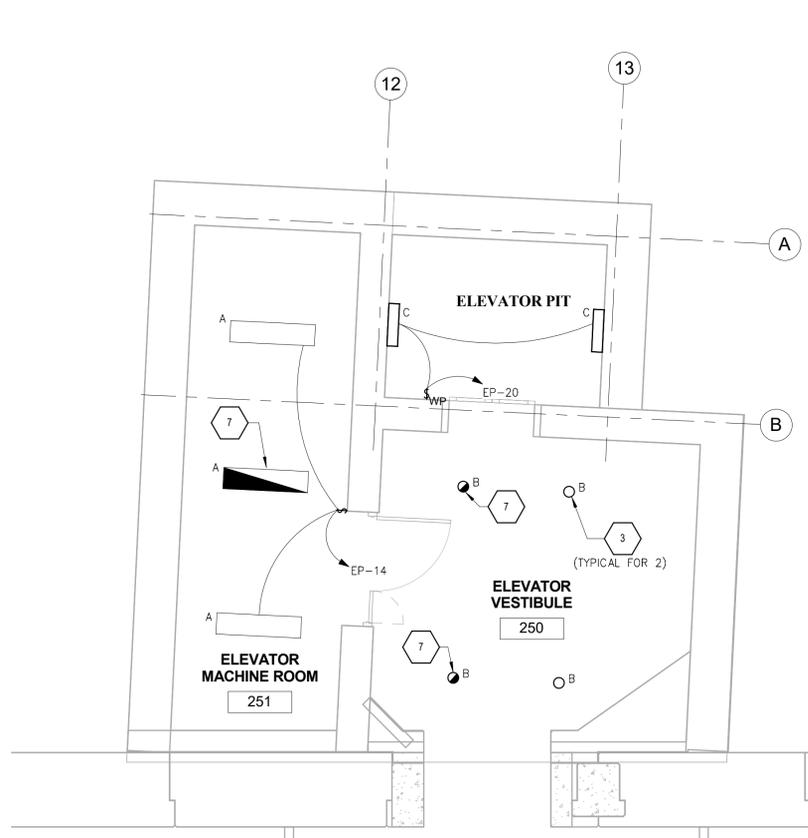
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 Checked: DRW  
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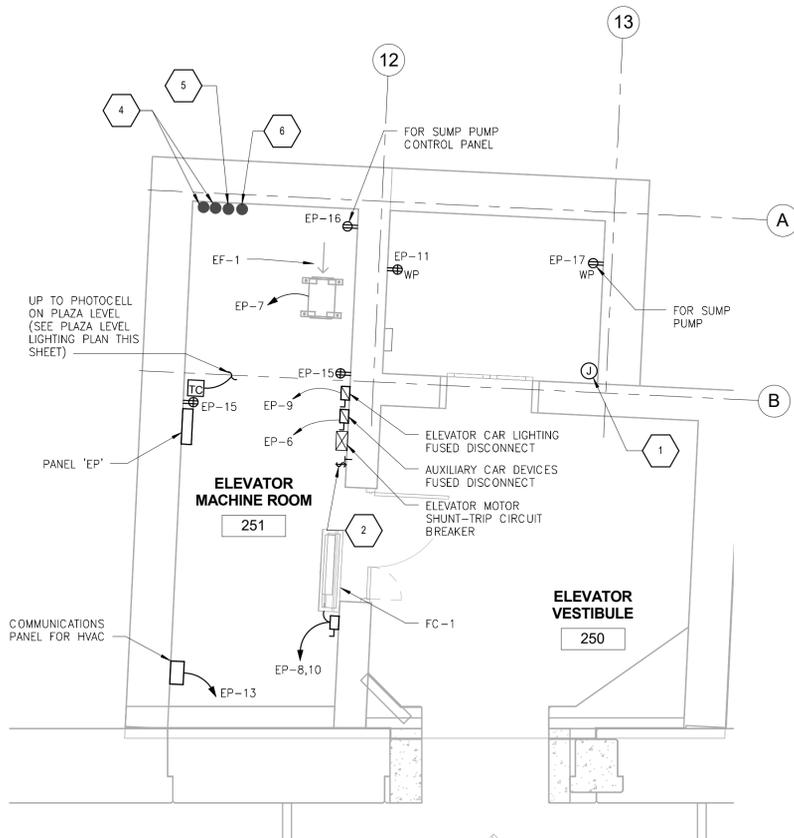
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100% PLANS - FOR CONSTRUCTION

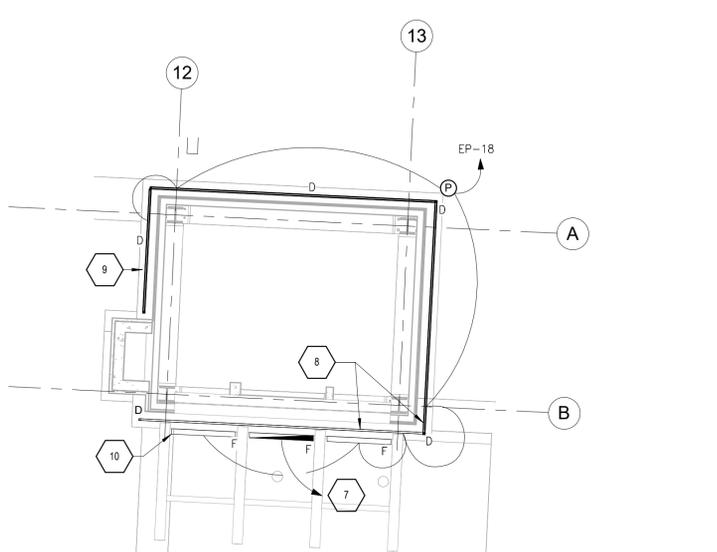
Sheet **52 OF 68**



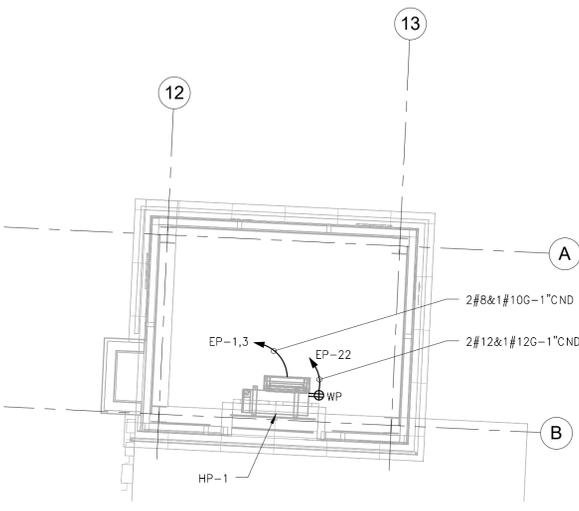
**1 ENLARGED ELEVATOR LIGHTING PLAN**  
 E-101 1/4" = 1'-0"  
 0 2' 4' 8'



**2 ENLARGED ELEVATOR POWER PLAN**  
 E-101 1/4" = 1'-0"  
 0 2' 4' 8'



**3 PLAZA LEVEL LIGHTING PLAN**  
 E-101 1/4" = 1'-0"  
 0 2' 4' 8'



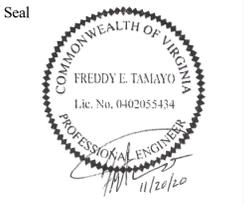
**4 PLAZA LEVEL ROOF POWER PLAN**  
 E-101 1/4" = 1'-0"  
 0 2' 4' 8'

**SHEET KEYNOTES**

1. PROVIDE NEW 1P-20A CIRCUIT BREAKER IN EXISTING 20S/120V, 3-PHASE PANEL NE1, SPACE AS INDICATED. CIRCUIT BREAKER SHALL BE COMPATIBLE WITH EXISTING PANEL AND HAVE SAME AIC RATINGS AS EXISTING CIRCUIT BREAKERS.



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**Approvals** \_\_\_\_\_ **Date** \_\_\_\_\_

WMATA PROJECT MANAGER \_\_\_\_\_

FD&C BUREAU CHIEF \_\_\_\_\_

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TRANSIT BUREAU CHIEF \_\_\_\_\_

TRANSIT PROJECT MANAGER \_\_\_\_\_

WATER, SEWER STREETS BUREAU CHIEF \_\_\_\_\_

TRANSPORTATION DIRECTOR \_\_\_\_\_

**Revisions** \_\_\_\_\_ **Date** \_\_\_\_\_

**ISSUED FOR CONSTRUCTION** 11-20-2020

Project Name and Location  
**Pentagon City Station  
 Elevator Project**  
 Wiring Diagrams and Panel Schedule  
 South Hayes Street  
 E-601

Designed: JFR  
 Drawn: RMT  
 Checked: DRW  
 Miss Utility Transmittal #:

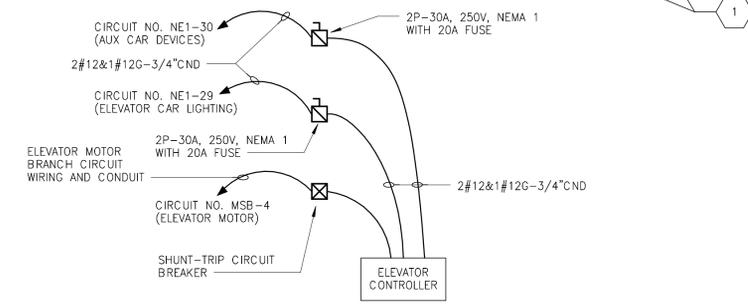
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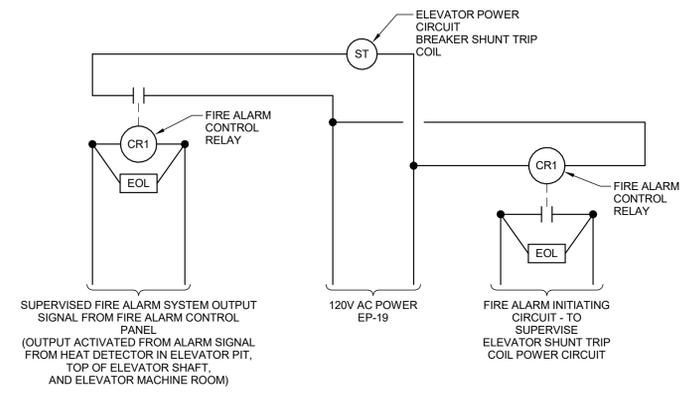
**100% PLANS - FOR CONSTRUCTION**

Sheet **53 OF 68**

ELEVATOR CONTROLLER SCHEDULE							
ROOM NO.	ELEVATOR	MOTOR (HP)	CIRCUIT BREAKER	BRANCH CIRCUIT WIRING AND CONDUIT (ELEVATOR MOTOR)	CIRCUIT NO. (ELEVATOR MOTOR)	CIRCUIT NO. (CAR LTG)	CIRCUIT NO. (AUXILIARY CAR DEVICES)
251	E-4	75	3P-150A, 600V, NEMA 1	3#1/0&1#6G-2" CND	MSB-4	NE1-29	NE1-30



**1 ELEVATOR CONTROLLER WIRING DIAGRAM**  
 E-601 N.T.S.



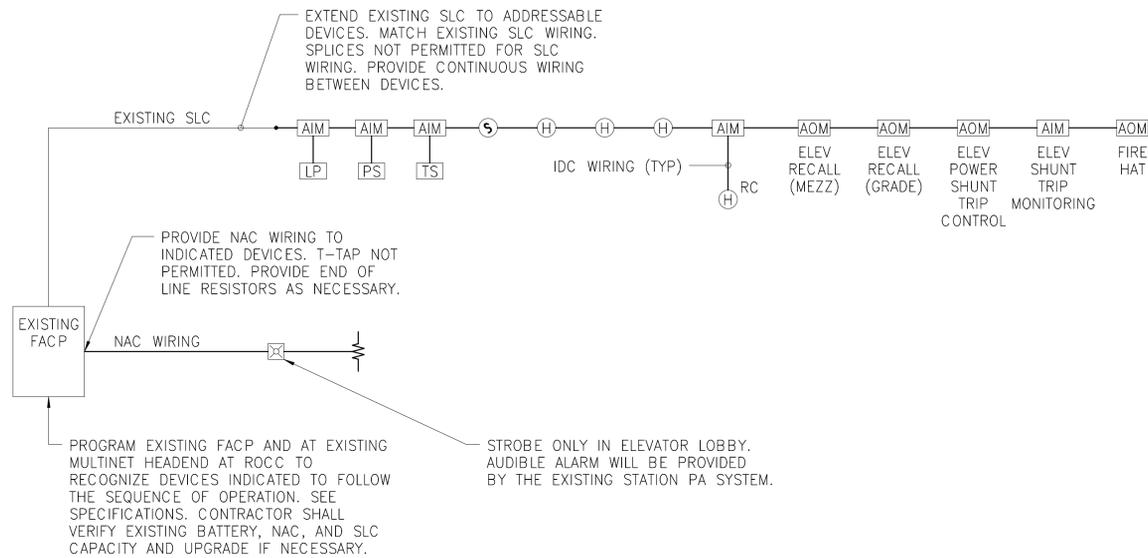
**2 SHUNT TRIP WIRING DIAGRAM**  
 E-601 NOT TO SCALE  
 NOTE: REFER TO FIRE ALARM DRAWINGS FOR FOR ALARM DEVICES.

PANEL: EP (NEW)		100A, 22KAIC				LOCATION: ROOM 251				
MOUNTING: SURFACE		VOLT, PHASE, WIRE 208Y/120.3PH, 4W				MAINS: 60A MCB				
DESCRIPTION	CB	WIRE	CKT	LOAD	f	LOAD	CKT	WIRE	CB	DESCRIPTION
HP-1	40	8	1	2.6	A	0.0	2	20		SPARE
SPARE			3	2.6	B	0.0	4	20		SPARE
SPARE	20		5	0.0	C	0.0	6	20		SPARE
EF-1	20	12	7	1.1	A	0.7	8	20		FC-1
SPARE	20		9	0.0	B	0.7	10	12		
RECEPTACLE - ELEV PIT	20	12	11	0.2	C	0.0	12	20		SPARE
HVAC COMM PNL-RM 251	20	12	13	0.4	A	0.1	14	12	20	LIGHTING - RM 251
RECEPTACLE - RM 251	20	12	15	0.2	B	0.2	16	12	20	REC-SUMP PUMP PNL
RECEPTACLE - SUMP PUMP	20	12	17	0.6	C	0.5	18	12	20	LTG (COVE)-PLAZA LVL
FIRE ALARM	20	12	19	0.2	A	0.1	20	12	20	LIGHTING - ELEV PIT
SPARE	20		21	0.0	B	0.2	22	12	20	REC - HP-1
SPARE	20		23	0.0	C		24	20		SPARE
SPACE			25		A		26			SPACE
SPACE			27		B		28			SPACE
SPACE			29		C		30			SPACE
TOTAL LOAD PER PHASE (KILOVOLT-AMPERES)		A - 4.3		0.9 - A		0.70 - DEMAND FACTOR				
		B - 3.0		1.1 - B						
		C - 1.0		0.5 - C		20.2 - DESIGN AMPS				
* PROVIDE GFCI BREAKER										

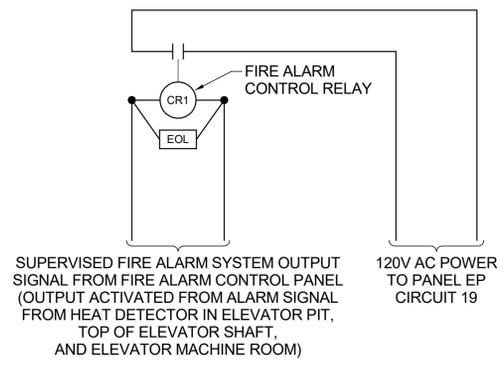
PANEL: MSB (EXISTING)		65KAIC			
480Y/277 V., 3PH, 4W		1600A CU BUS			
DESCRIPTION	CB	WIRE	CKT	LOAD	DESCRIPTION
SPARE		400AS/225AP	1	2	400AS/200AP SMCC ESCALATORS
PANEL NP02		600AS/600AP	3	4	400AS/150AP ELEVATOR*
SPARE		600AS/600AP	5	6	600AS/400AP 1 MCC
PANEL NP01		150AS/125AP	7	8	150AS/125AP SPARE
* PROVIDE CIRCUIT BREAKER					

PANEL: NP03 (EXISTING) - SECTION 1 OF 2		208Y/120V, 3PH, 4W				MAINS: 400A MLO				
MOUNTING: SURFACE		VOLT, PHASE, WIRE 208Y/120V, 3PH, 4W				MAINS: 400A MLO				
DESCRIPTION	CB	WIRE	CKT	LOAD	f	LOAD	CKT	WIRE	CB	DESCRIPTION
SPACE			1		A	0.7	2	12	20	DRY PIPE AIR COMPR.
			3		B		4			
EXISTING LOAD	20				C				20	EXISTING LOAD
					A					
EXISTING LOAD	20		9		B		10		4	60 PANEL 'EP' SUBFEED
					C		12			
					A		14			
SPACE			15		B		16			SPACE
SPACE			17		C		18			SPACE
SPACE			19		A		20			SPACE
					B		22			
EXISTING LOAD	20		21		C				20	EXISTING LOAD
					A					
EXISTING LOAD	20		27		B		28		20	EXISTING LOAD
EXISTING LOAD	20		29		C		30		20	EXISTING LOAD
EXISTING LOAD	20		31		A		32		20	EXISTING LOAD
EXISTING LOAD	20		33		B		34		20	EXISTING LOAD
EXISTING LOAD	20		35		C		36		20	EXISTING LOAD
TOTAL LOAD PER PHASE (KILOVOLT-AMPERES)		A -		- A		0.70 - DEMAND FACTOR				
		B -		- B						
		C -		- C		- DESIGN AMPS				
* PROVIDE GFCI BREAKER										
NOTE: 20.9 AMP COMBINED NEW LOAD AND EXISTING MEASURED LOAD SHALL NOT EXCEED 75 AMPS.										

PANEL: NE1 (EXISTING)		208Y/120V, 3PH, 4W, 225A				MAINS: 125A MCB				
MOUNTING: SURFACE		VOLT, PHASE, WIRE 208Y/120V, 3PH, 4W, 225A				MAINS: 125A MCB				
DESCRIPTION	CB	WIRE	CKT	LOAD	f	LOAD	CKT	WIRE	CB	DESCRIPTION
KIOSK PANEL	40				A		2	20		CORRIDOR LIGHTS
					B		4	20		CORRIDOR LIGHTS
WEST ENT. ESC. LTG & CTRL	20		5		C		6	20		CORRIDOR LIGHTS
EAST ENT. ESC. LTG & CTRL	20		7		A		8	20		VENDING AREA LIGHTS
SPACE			9		B		10			SPACE
MEZZ. WEST ESC. BRAKES	20		11		C		12	20		MEZZ. EAST ESC. BRAKES
EXIT LIGHTS	20		13		A		14	20		MEZZ. EAST ESC. BRAKES
SPACE			15		B		16	20		MEZZ. EAST ESC. BRAKES
EXHAUST FAN #3 BATT. RM.	20		17		C		18	20		CONTROL ELEV. #1
COMM ROOM	20		19		A		20	20		CONTROL ELEV. #2 & #3
COMM ROOM	20		21		B		22	20		COMM ROOM
RTU	20		23		C		24	20		EXISTING LOAD
MEZZ. WEST ESC. BRAKES	20		25		A		26			SPACE
MEZZ. WEST ESC. BRAKES	20		27		B		28			SPACE
ELEV CAR LIGHTING	20	12	29	0.2	C	0.2	30	12	20	AUX CAR DEVICES
SPACE			31		A		32			SPACE
SPACE			33		B		34			SPACE
SPACE			35		C		36			SPACE
SPACE			37		A		38			SPACE
SPACE			39		B		40			SPACE
SPACE			41		C		42			SPACE
TOTAL LOAD PER PHASE (KILOVOLT-AMPERES)		A -		- A		0.70 - DEMAND FACTOR				
		B -		- B						
		C -		- C		- DESIGN AMPS				
* PROVIDE GFCI BREAKER										
NOTE: THIS PANEL WILL ADD ONLY 200 WATTS OF LOAD, THEREFORE MAXIMUM DEMAND READINGS ARE NOT REQUIRED.										



**1 PARTIAL FIRE ALARM RISER DIAGRAM**  
FA-001 N.T.S.



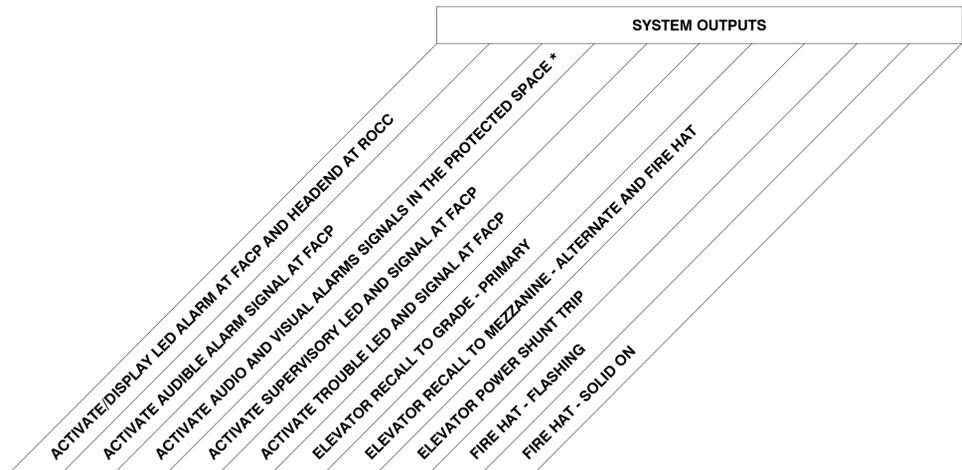
**2 FIRE ALARM INTERFACE WIRING DIAGRAM**  
FA-001 N.T.S.

**FIRE ALARM LEGEND**

- (S) SMOKE DETECTOR - CEILING MOUNT
- (H) HEAT DETECTOR - 135 DEG F
- (H) RC HEAT DETECTOR - OUTDOOR RATED, DETECTOR RATE COMPENSATION 194 DEG F, SURFACE MOUNT EDWARDS SIGNALING MODEL 302-AW-194 OR APPROVED EQUAL
- (AIM) ADDRESSABLE INPUT MODULE
- (AOM) ADDRESSABLE OUTPUT (CONTROL) MODULE
- (PS) SPRINKLER SYSTEM PRESSURE SWITCH
- (TS) SPRINKLER SYSTEM TAMPER SWITCH
- (LP) LOW PRESSURE ALARM
- (FACP) FIRE ALARM CONTROL PANEL
- (WP) FIRE ALARM STROBE - MOUNTED 68" AFF 'WP' INDICATES WEATHERPROOF
- W- END OF LINE RESISTOR

**ABBREVIATIONS**

- A, AMP AMPERES
- AC ALTERNATING CURRENT
- AF AMPERE FUSE; AMPERE FRAME
- AFF ABOVE FINISHED FLOOR
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- CAM CCTV CAMERA
- CCTV CLOSED CIRCUIT TELEVISION
- DEG DEGREE
- DWG DRAWING
- ELEC ELECTRICAL (EQUIPMENT OR WIRING)
- ELEV ELEVATOR
- F FARENHEIT
- FACP FIRE ALARM CONTROL PANEL
- G, GND GROUND
- JB JUNCTION BOX
- KW KILOWATTS
- KWH KILOWATT-HOURS
- LED LIGHT EMITTING DIODE
- MCB MAIN CIRCUIT BREAKER
- MEZZ MEZZANINE
- MIN MINIMUM
- NAC NOTIFICATION APPLIANCE CIRCUIT
- NIC NOT IN CONTRACT
- NTS NOT TO SCALE
- PB PULL BOX
- PH PHASE
- PNL PANEL
- POE POWER OVER ETHERNET
- PP POWER PANEL
- PWR POWER
- SLC SIGNALING LINE CIRCUIT
- SW SWITCH
- TYP TYPICAL
- UTP UNSHIELDED TWISTED PAIR
- V VOLTS
- VA VOLT AMPERES
- W WATTS
- W/ WITH
- ROCC REMOTE OFFICE COMMAND CENTER
- EOL END OF LINE RESISTOR
- RGS RIGID GALVANIZED STEEL



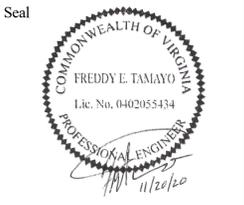
SYSTEM INPUTS		A	B	C	D	E	F	G	H	I	J
1	SMOKE DETECTOR - MEZZANINE LOBBY	X	X	X			X				X
2	HEAT DETECTOR - ELEVATOR PIT	X	X	X			X			X	
3	HEAT DETECTOR - GRADE LEVEL	X	X	X				X			X
4	SMOKE DETECTOR - ELEVATOR MACHINE ROOM	X	X	X			X			X	
5	HEAT DETECTORS - ELEVATOR MACHINE ROOM	X	X	X					X	X	
6	SPRINKLER SYSTEM TAMPER SWITCH				X						
7	SPRINKLER SYSTEM PRESSURE SWITCH	X	X	X					X		
8	SPRINKLER SYSTEM LOW AIR PRESSURE				X						
9	FIRE ALARM SYSTEM AC POWER FAILURE					X					
10	FIRE ALARM SYSTEM LOW BATTERY					X					
11	FIRE ALARM SYSTEM GROUND FAULT					X					
12	FIRE ALARM SYSTEM NAC SHORT					X					
13	SHUNT TRIP CIRCUIT POWER MONITOR				X						

NOTE: CONTRACTOR SHALL MODIFY THE EXISTING PROGRAM AT THE FACP AND THE ROCC UNDER THE GUIDANCE OF WMATA FIA ADMIN.  
\* SMOKE AND HEAT DETECTORS WILL ACTIVATE THE EXISTING POSITIVE ALARM SEQUENCES. (LINES 1-5)

**SEQUENCE OF OPERATION MATRIX**



DEPARTMENT OF ENVIRONMENTAL SERVICES  
Division of Transportation  
Transit Bureau  
2100 Clarendon Boulevard, Suite 900  
Arlington, VA 22201  
Phone: 703.228.3681  
Fax: 703.228.7548



Approvals

Date

WMATA PROJECT MANAGER

FD&C BUREAU CHIEF

FD&C PROJECT MANAGER

TRANSIT BUREAU CHIEF

TRANSIT PROJECT MANAGER

WATER, SEWER STREETS BUREAU CHIEF

TRANSPORTATION DIRECTOR

Revisions

Date

ISSUED FOR CONSTRUCTION 11-20-2020

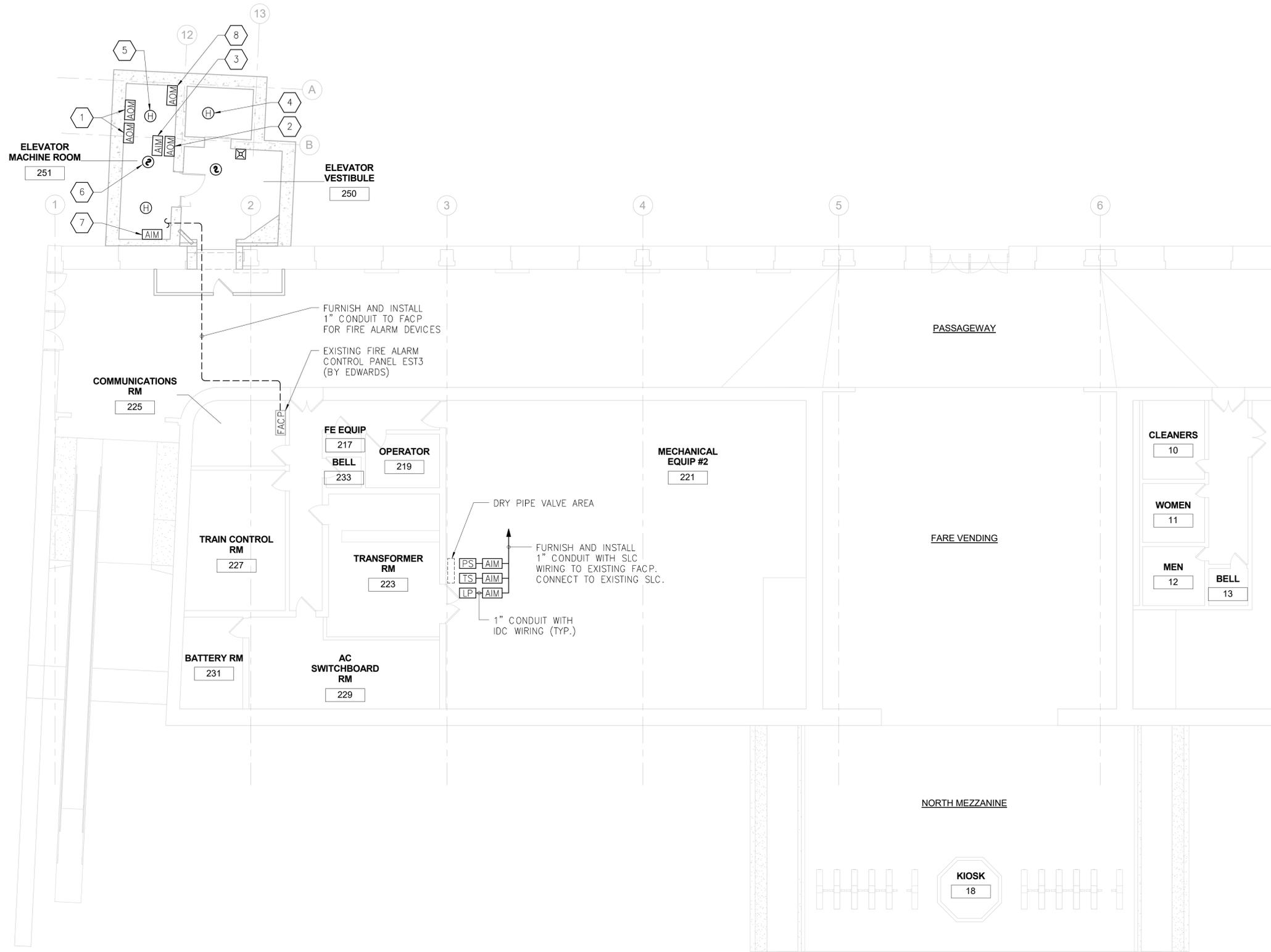
Project Name and Location  
**Pentagon City Station Elevator Project**  
Diagrams  
South Hayes Street  
**FA-001**

Designed: J. Hopkins  
Drawn: C. Hendricks  
Checked: J. Remson  
Miss Utility Transmittal #:

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100% PLANS - FOR CONSTRUCTION



**GENERAL SHEET NOTES**

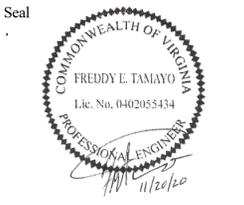
1. HEAT DETECTOR TO BE INSTALLED WITHIN 24" OF SPRINKLER HEAD.
2. COORDINATE INSTALLATION OF ELEVATOR CABLES WITH ELEVATOR INSTALLER.
3. SEE SHEET FA-501 FOR INSTALLATION DETAILS OF FIRE ALARM DEVICES.
4. SEE SHEET FA-001 FOR LEGEND AND ABBREVIATIONS.

**SHEET KEYNOTES**

1. MOUNT ADDRESSABLE OUTPUT MODULE NEAR ELEVATOR CONTROLLER FOR ELEVATOR RECALL.
2. PROVIDE ADDRESSABLE OUTPUT MODULE TO ACTIVATE SHUNT TRIP FOR ELEVATOR POWER. SEE ELECTRICAL DRAWINGS.
3. PROVIDE ADDRESSABLE INPUT MODULE TO MONITOR ELEVATOR SHUNT TRIP CIRCUIT.
4. PROVIDE HEAT DETECTOR MOUNTED WITHIN 24" OF SPRINKLER HEAD IN BOTTOM OF ELEVATOR SHAFT.
5. PROVIDE HEAT DETECTOR MOUNTED ON CEILING OF ELEVATOR MACHINE ROOM WITHIN 24" OF SPRINKLER HEADS.
6. PROVIDE ADDRESSABLE SMOKE DETECTOR ON CEILING OF ELEVATOR MACHINE ROOM.
7. PROVIDE ADDRESSABLE INPUT MODULE FOR CONVENTIONAL HEAT DETECTOR RC AT STREET LEVEL. SEE DETAIL 4/FA-501.
8. PROVIDE ADDRESSABLE OUTPUT MODULE FOR FIRE HAT ALARM IN ELEVATOR.



DEPARTMENT OF ENVIRONMENTAL SERVICES  
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 2100 Clarendon Boulevard, Suite 900  
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Approvals	Date
WMATA PROJECT MANAGER	
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FD&C PROJECT MANAGER	
TRANSIT BUREAU CHIEF	
TRANSIT PROJECT MANAGER	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions	Date
ISSUED FOR CONSTRUCTION	11-20-2020

Project Name and Location  
**Pentagon City Station  
 Elevator Project**  
 Partial Mezzanine Level Fire Alarm Plan  
 South Hayes Street  
 FA-101

Designed: J. Hopkins  
 Drawn: C. Hendricks  
 Checked: Checker  
 Miss Utility Transmittal #:

Filename: 4018669\_T-3D0000.rvt  
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Scale: 1/8" = 1'-0"

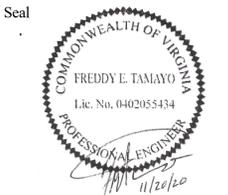
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Sheet 55 OF 68

**1 PARTIAL MEZZANINE LEVEL FIRE ALARM PLAN**  
 1/8" = 1'-0"  
 0 4' 8' 16'

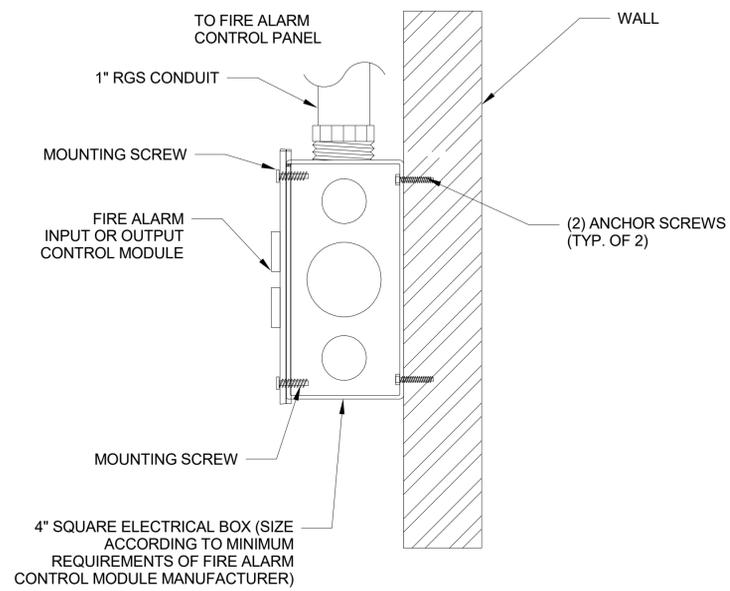
**GENERAL SHEET NOTES**

1. PROVIDE FACEPLATE FOR FIRE ALARM INPUT MODULE (NOT SHOWN FOR CLARITY).
2. ALL MOUNTING HARDWARE SHALL BE PER MANUFACTURER'S RECOMMENDATION UNLESS OTHERWISE APPROVED BY WMATA.
3. SEE SHEET FA-001 FOR LEGEND AND ABBREVIATIONS.

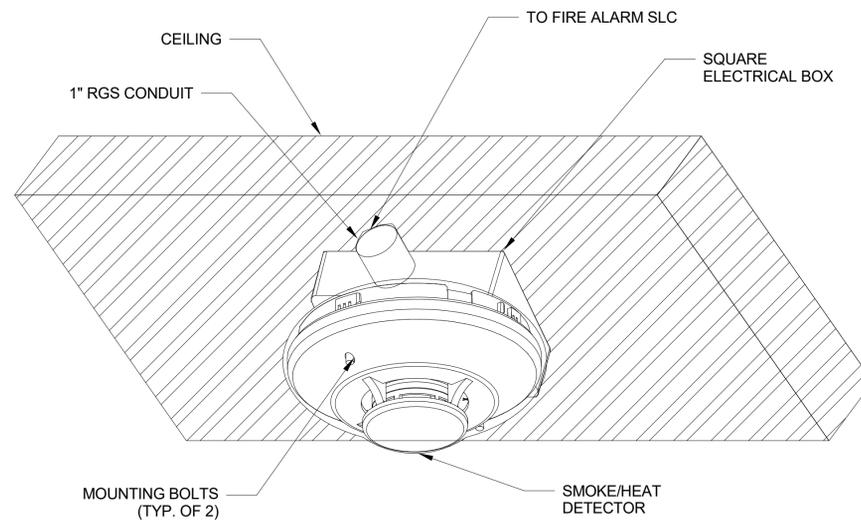


Approvals	Date
WMATA PROJECT MANAGER	
FD&C BUREAU CHIEF	
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TRANSIT BUREAU CHIEF	
TRANSIT PROJECT MANAGER	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

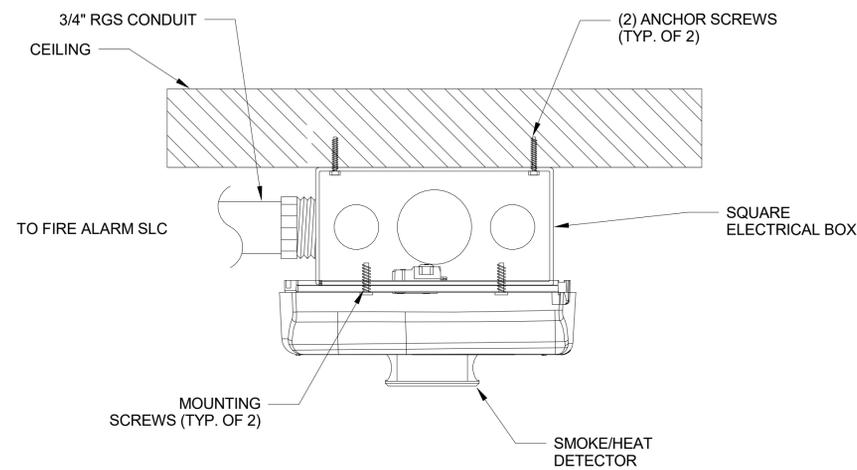
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ISSUED FOR CONSTRUCTION	11-20-2020



**1** FIRE ALARM INPUT/CONTROL MODULE MOUNTING DETAIL  
 FA-501 N.T.S.



**2** SMOKE/HEAT DETECTOR MOUNTING DETAIL  
 FA-501 N.T.S.



**3** SMOKE/HEAT DETECTOR MOUNTING DETAIL SIDE VIEW  
 FA-501 N.T.S.



**4** STREET LEVEL - SOUTH ELEVATION - FIRE ALARM DEVICES  
 FA-501 1/2"=1'-0"



Project Name and Location  
**Pentagon City Station  
 Elevator Project**  
 Fire Alarm Details and Elevations  
 South Hayes Street  
 FA-501

Designed: C. Jones  
 Drawn: P. Ebert  
 Checked: C. Hertz  
 Miss Utility Transmittal #:

Filename: 4018669\_T-3D0000.rvt  
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 Plotted by:

Scale: AS NOTED

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TRANSIT PROJECT MANAGER	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions	Date
<b>ISSUED FOR CONSTRUCTION</b>	<b>11-20-2020</b>

Project Name and Location  
**Pentagon City Station Elevator Project**  
Partial Floor Plan and Detail  
South Hayes Street  
F-101

Designed: KJB  
Drawn: RDS  
Checked: RFS  
Miss Utility Transmittal #:

Filename:  
Path:  
Plotted:  
Plotted by:

Scale: AS INDICATED

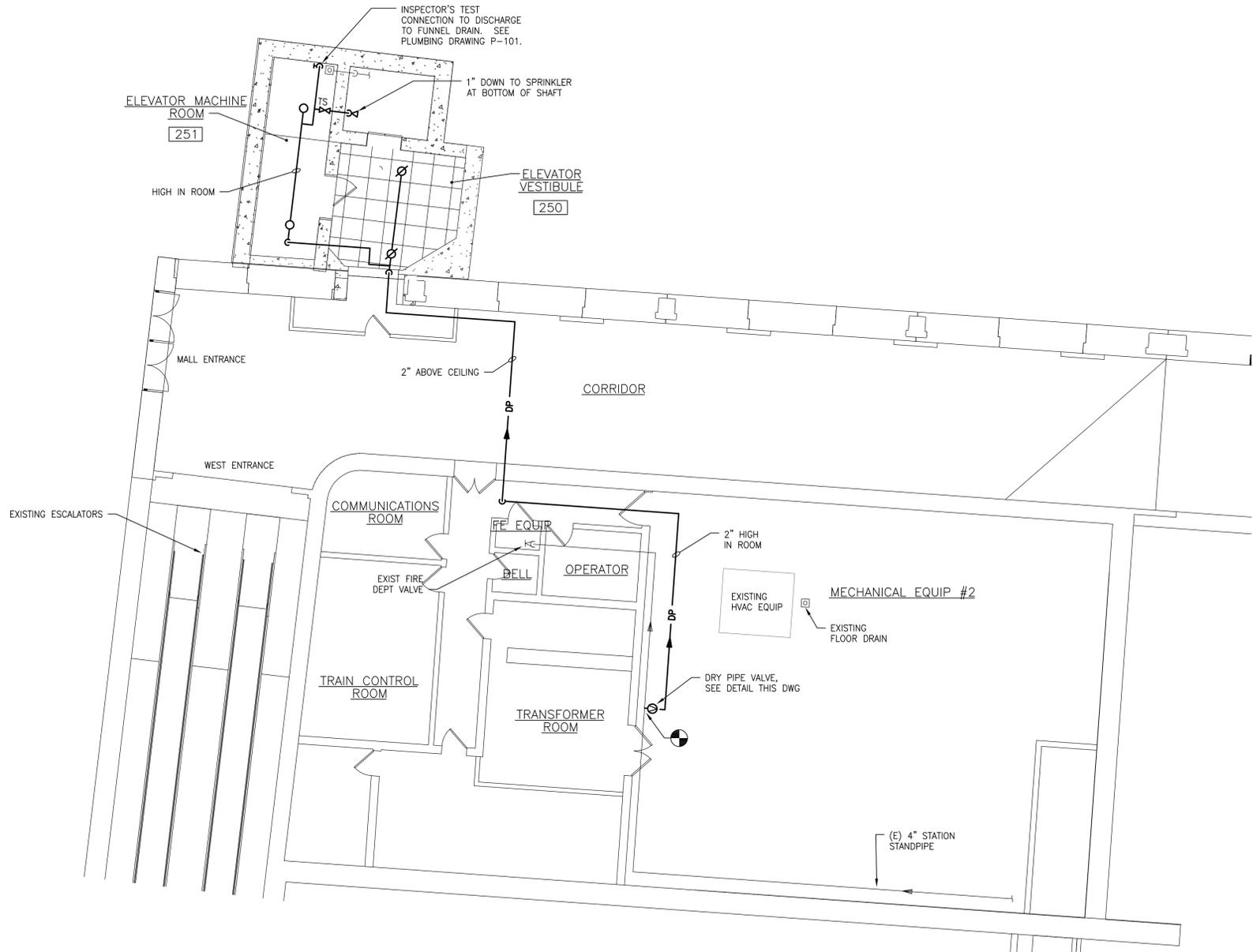
**100% PLANS - FOR CONSTRUCTION**

**SPRINKLER SYSTEM DESIGN REQUIREMENTS**

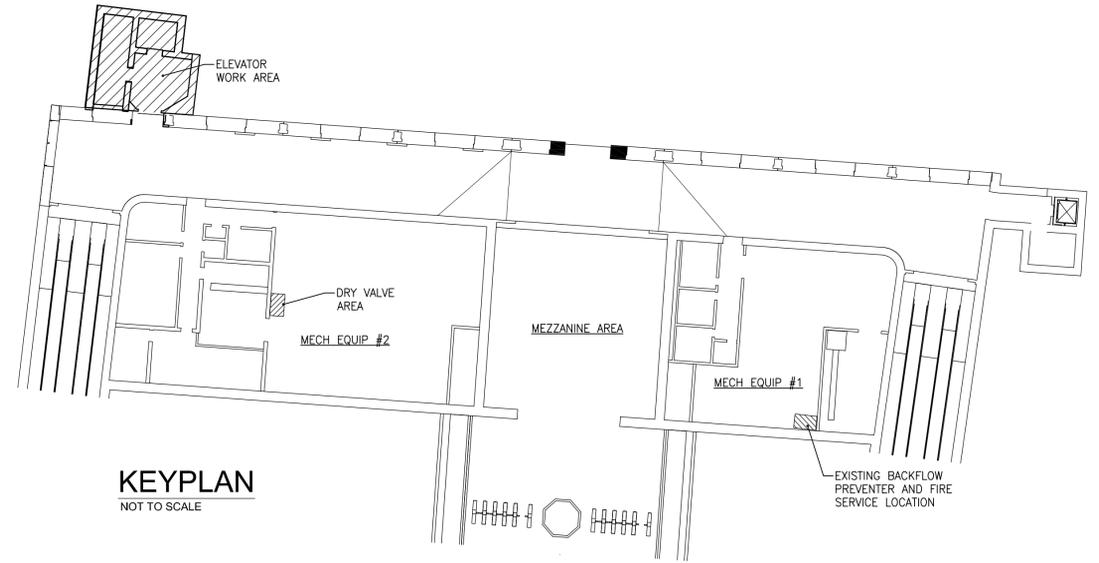
- SYSTEM DESIGN: COMPLY WITH NFPA 13 LATEST EDITION AND THE INTERNATIONAL BUILDING CODE. OBTAIN THE APPROVAL OF THE LOCAL AUTHORITY.
- SYSTEM COVERAGE: PROVIDE 100% PROTECTION OF THE BUILDING INTERIOR AS INDICATED AND REQUIRED BY NFPA.
- PIPE SIZING BY CONTRACTOR: HYDRAULIC CALCULATIONS WITH DENSITIES CONFORMING TO FACTORY MUTUAL STANDARDS FOR THE INDICATED SPRINKLER HAZARD CLASS.  
ELEVATOR VESTIBULE: LIGHT HAZARD OCCUPANCY: .10 GPM / SQFT / ENTIRE ROOM.  
ELEVATOR MACHINE ROOM: ORDINARY HAZARD GROUP I: .15 GPM / SQFT / ENTIRE ROOM.
- MAXIMUM SPRINKLER HEAD SPACING UNLESS NOTED OTHERWISE: 225 SQFT / HEAD FOR LIGHT HAZARD AREAS, 130 SQFT / HEAD FOR ORDINARY HAZARD AREAS.
- HYDRAULIC CALCULATIONS TO USE THE SITE WATER SUPPLY AS THE SOURCE. ALL CALCULATIONS SHALL CONFORM TO NFPA 13. CALCULATIONS SHALL INCLUDE THE EXTERIOR PIPING, INCLUDING ALL FITTINGS, VALVES, METERS AND BACKFLOW PREVENTION DEVICES. BELOW INFORMATION IS FROM A FLOW TEST FOR THE ARLINGTON COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES, DATED 4/21/18, STATIC=72 PSI, RESIDUAL PRESSURE=40 PSI, FLOW=1061 GPM. PROVIDE A FLOW TEST TO VERIFY THE PROVIDED FLOW TEST INFORMATION. USE THE WORST CASE INFORMATION IN THE SPRINKLER SYSTEM DESIGN. CONTRACTOR SHALL SURVEY & FIELD MEASURE THE EXISTING 4" STATION STANDPIPE FROM THE SERVICE ENTRANCE FOR THE HYDRAULIC CALCULATIONS.
- SPRINKLER HEAD TYPES: QUICK RESPONSE, TEMPERATURE RATED FOR SPECIFIC AREA HAZARD. PROVIDE CHROME FINISH IN PUBLIC AREAS AND BRASS FINISH IN NON-PUBLIC AREAS.
- SPRINKLERS SHALL BE CENTERED IN CEILING TILES IN ONE DIRECTION AND NO CLOSER THAN 6" TO THE CEILING GRID IN THE OTHER DIRECTION.
- ALL EQUIPMENT AND DEVICES SHALL BE UL LISTED OR FM APPROVED.
- THE CONTRACTOR SHALL COORDINATE THE SPRINKLER DESIGN WITH ALL TRADES AND PARTICIPATE IN COORDINATION MEETINGS WITH ALL TRADES. OBTAIN A FULL COMPLETE SET OF CONTRACT DOCUMENTS AND SPECIFICATIONS FOR BID & COORDINATION PURPOSES.
- NO PIPING SHALL BE RUN ABOVE ELECTRICAL PANELS OR ELECTRICAL EQUIPMENT.
- ALL VALVES SUPPLYING SPRINKLERS SHALL BE PROVIDED WITH TAMPER SWITCHES CONNECTED TO THE BUILDING ALARM SYSTEM.

**LEGEND**

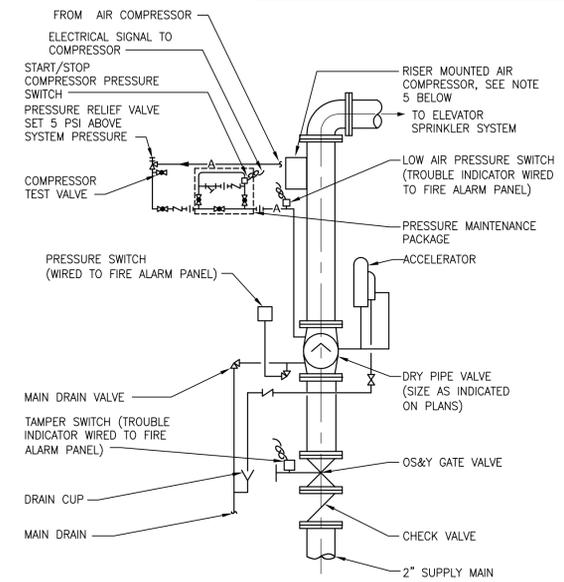
NEW	EXISTING
— DP —	DRY PIPE SYSTEM
⊕	CONNECT TO EXISTING
○	UPRIGHT SPRINKLER HEAD
∅	DRY SPRINKLER HEAD
TS	TAMPER SWITCH
(E)	EXISTING



**1 PARTIAL FLOOR PLAN**  
F-101 1/8"=1'-0"  
0 4' 8' 16'

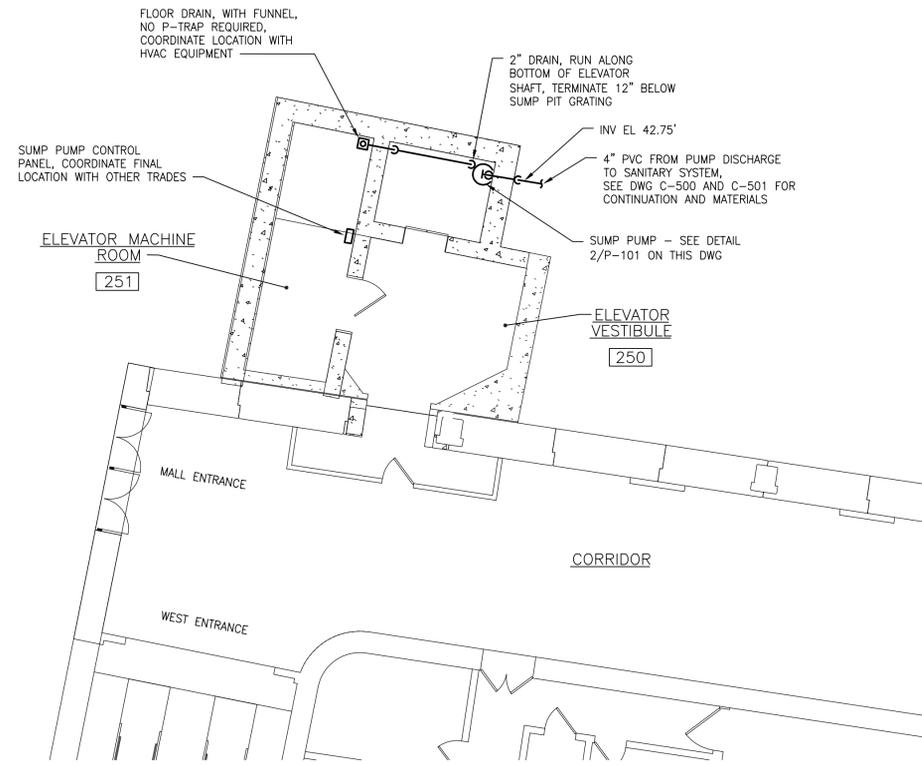


**KEYPLAN**  
NOT TO SCALE

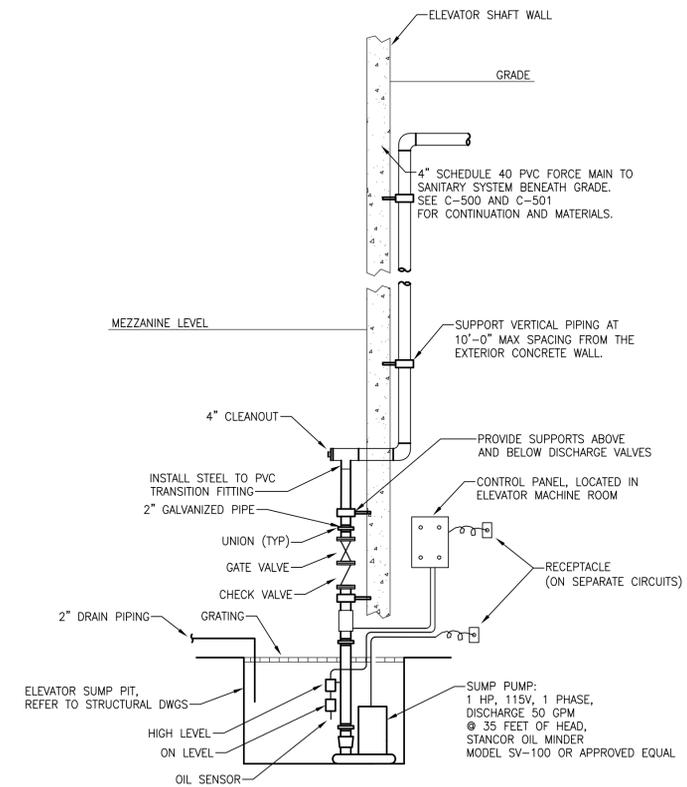


- NOTES:**
- DRY PIPE ALARM VALVE, TRIM & INSTALLATION SHALL CONFORM TO NFPA 13 AND THE MANUFACTURERS RECOMMENDATIONS.
  - VALVE AND CAP ALL DRAINS.
  - FURNISH AND INSTALL FLOW AND TAMPER SWITCHES. WIRING OF DEVICES IS BY INSTALLER OF FIRE ALARM SYSTEM.
  - IF AN ACCELERATOR IS USED, COMPRESSOR MUST BE TANK MOUNTED TYPE.

**2 DRY PIPE SPRINKLER SYSTEM DETAIL**  
NOT TO SCALE



**1 PARTIAL FLOOR PLAN**  
 1/8"=1'-0" 0 4' 8' 16'



**2 ELEVATOR SUMP PUMP DETAIL**  
 NOT TO SCALE



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TRANSIT BUREAU CHIEF	
TRANSIT PROJECT MANAGER	
WATER, SEWER STREETS BUREAU CHIEF	
TRANSPORTATION DIRECTOR	

Revisions	Date
ISSUED FOR CONSTRUCTION	11-20-2020

Project Name and Location  
**Pentagon City Station**  
**Elevator Project**  
 Partial Floor Plan  
 South Hayes Street  
 P-101

Designed: KJB  
 Drawn: RDS  
 Checked: RFS  
 Miss Utility Transmittal #:

Filename:  
 Path:  
 Plotted:  
 Plotted by:

Scale:

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