

LYNCHBURG CITY ARMORY ELEVATOR REPLACEMENT

1210 Church Street Lynchburg, VA

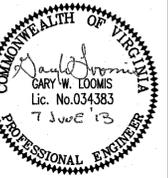
DRAWING LIST

TS	TITLE SHEET
D1.1	DEMOLITION PLAN AND NOTES
A1.1	PARTIAL FLOOR PLANS, ROOF PLAN, ELEVATIONS AND EXTERIOR WALL ASSEMBLY
A1.2	BASE BID ELEVATOR SECTION
A1.3	ALTERNATE #1 ELEVATOR SECTION, ALTERNATE #2 ELEVATOR SECTION
A1.4	STAIR SECTION, HANDRAIL SECTION
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ME1	MECHANICAL & ELECTRICAL PLANS
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CODE DATA

- 2009 EDITION OF THE "IBC" THE INTERNATIONAL BUILDING CODE AS ADOPTED AND MODIFIED BY THE COMMONWEALTH OF VIRGINIA MARCH 1, 2011.
- ACCESSIBILITY: VCC 2009.
- THE CURRENT USE AND OCCUPANCY OF THIS BUILDING IS NOT BEING CHANGED AS PART OF THIS WORK.
- THE SCOPE OF WORK FOR THIS PROJECT IS THE DEMOLITION OF THE EXISTING ELEVATOR AND SHAFT AND THE INSTALLATION OF A NEW ELEVATOR AND SHAFT IN THE SAME LOCATION OF THE EXISTING ELEVATOR.
- THE NEW ELEVATOR AND SHAFT WILL CONFORM TO ALL CURRENT REQUIREMENTS OF THE BUILDING CODE AS ADOPTED BY THE STATE OF VIRGINIA.
- THE SCOPE OF THIS WORK DOES NOT CHANGE ANY EXISTING CODE SUMMARY DATE FOR THIS BUILDING.
- ALL EXISTING EGRESS ROUTES ARE TO REMAIN UNCHANGED AND ARE NOT ADVERSELY AFFECTED BY THE SCOPE OF WORK FOR THIS PROJECT.

REVISIONS:



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**DOMINION
SEVEN**

7
architects

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Lynchburg, Virginia 24504

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TITLE SHEET

DATE ISSUED: 06-07-13

SCALE: AS NOTED

JOB. NO. 262-214

DESIGNED:

DRAWN: JHR

CHECKED:

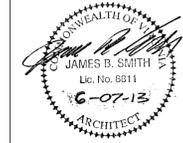
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Lynchburg City Armory
Elevator Replacement
Lynchburg, VA

DEMOLITION PLAN
AND NOTES

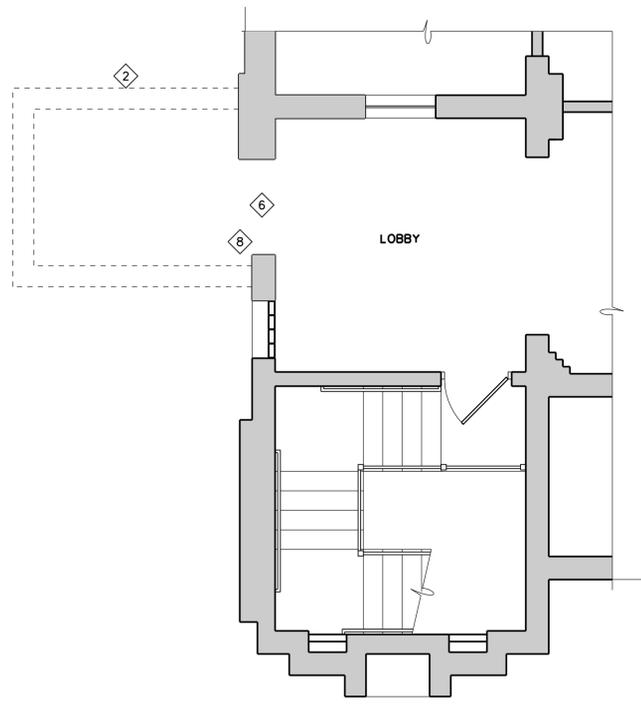
DATE ISSUED: 06-07-13
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JOB. NO. 262-214
DESIGNED: JBS
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CHECKED: JBS
APPROVED: JBS
DRAWING NO. D1.1
SHEET 1 OF 1
REVISION

DEMOLITION NOTES

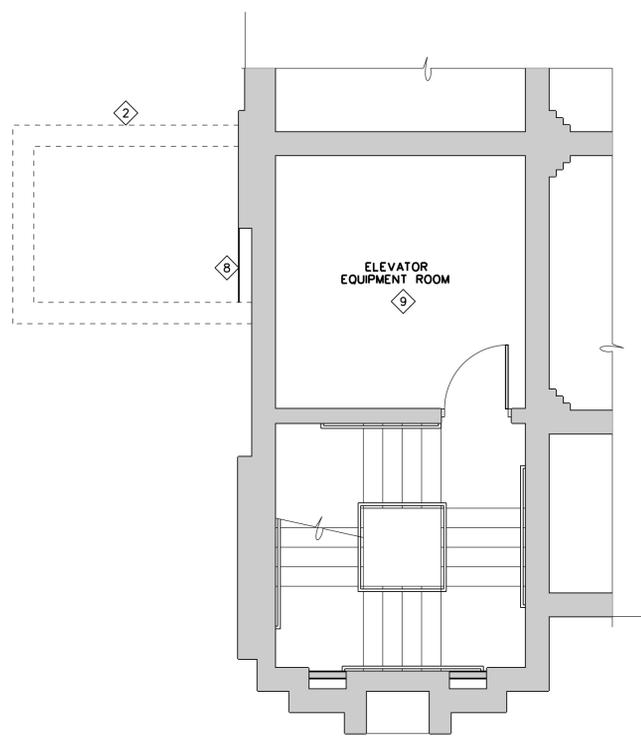
1. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE REMOVED, UNLESS OTHERWISE NOTED. REMOVAL OF EXISTING WALLS INCLUDES REMOVAL OF ITEMS AFFIXED TO WALLS (DOORS, WINDOWS, CASEWORK, ELECTRICAL/PLUMBING FIXTURES, TRIM, ETC.). EXTENT OF SELECTIVE DEMOLITION SHALL BE AS REQUIRED FOR INSTALLATION OF NEW WORK.
2. PROTECT FROM DAMAGE EXISTING ITEMS, MATERIALS AND / OR FINISHES THAT ARE TO REMAIN. EXISTING WORK TO REMAIN THAT IS DAMAGED BY DEMOLITION OPERATIONS SHALL BE REPAIRED TO MATCH ORIGINAL ADJACENT CONSTRUCTION.
3. PRIOR TO THE REMOVAL OR MODIFICATION OF WALLS OR OTHER POTENTIALLY LOAD BEARING ELEMENTS, THE ACTUAL SIZE OF AND LOCATION OF THE STRUCTURAL COMPONENT AND LOAD BEARING CONDITION SHALL BE VERIFIED BY THE CONTRACTOR BY MEANS OF SELECTIVE DEMOLITION. THE CONTRACTOR SHALL NOTIFY THE A/E OF ANY UNUSUAL OR HAZARDOUS CONCEALED CONDITION.
4. PROVIDE ALL TEMPORARY BRACING AND SHORING NECESSARY TO SAFELY SUPPORT ALL LOADS, INCLUDING ROOF LOADS, AND TO MAINTAIN EXISTING FRAMING TO REMAIN IN ITS EXISTING LOCATION WHILE MAKING MODIFICATIONS REQUIRED UNDER THIS CONTRACT.
5. CUT AND PATCH HOLES IN SLABS ON GRADE AND SUPPORTED SLABS AS REQUIRED TO COMPLETE WORK SHOWN.
6. ALL ABANDONED PIPING AND CONDUIT SHALL BE CAPPED IN CONCEALED LOCATIONS. PATCH OPENINGS TO MATCH ADJACENT SURFACES. ABANDONED ELECTRICAL BOXES SHALL BE PROVIDED WITH NEW BLANK COVER PLATES.
7. PROVIDE TEMPORARY DUST BARRIERS TO ISOLATE DEMOLITION WORK FROM UNAFFECTED AREAS.

DEMOLITION KEYNOTES

- 1 REMOVE POURED CONCRETE STAIR AND PORTION OF SIDEWALK IN ITS ENTIRETY.
- 2 DEMOLISH ELEVATOR SHAFT WALL.
- 3 DEMOLISH METAL RAILING
- 4 DEMOLISH ELEVATOR PIT ACCESS LADDER.
- 5 DEMOLISH ELEVATOR PIT FLOOR AND SUMP IN ITS ENTIRETY.
- 6 REMOVE, SAVE AND STORE HOISTWAY DOORS AT ALL LEVELS. PROTECT FROM DAMAGE WHILE IN STORAGE. EXISTING HOISTWAY FRAMES TO REMAIN IN PLACE.
- 7 REMOVE EXISTING LETTERING ON EXTERIOR OF ELEVATOR SHAFT.
- 8 DEMOLISH CMU INFILL FULL HEIGHT OF SHAFT.
- 9 REMOVE EXISTING ELEVATOR EQUIPMENT.

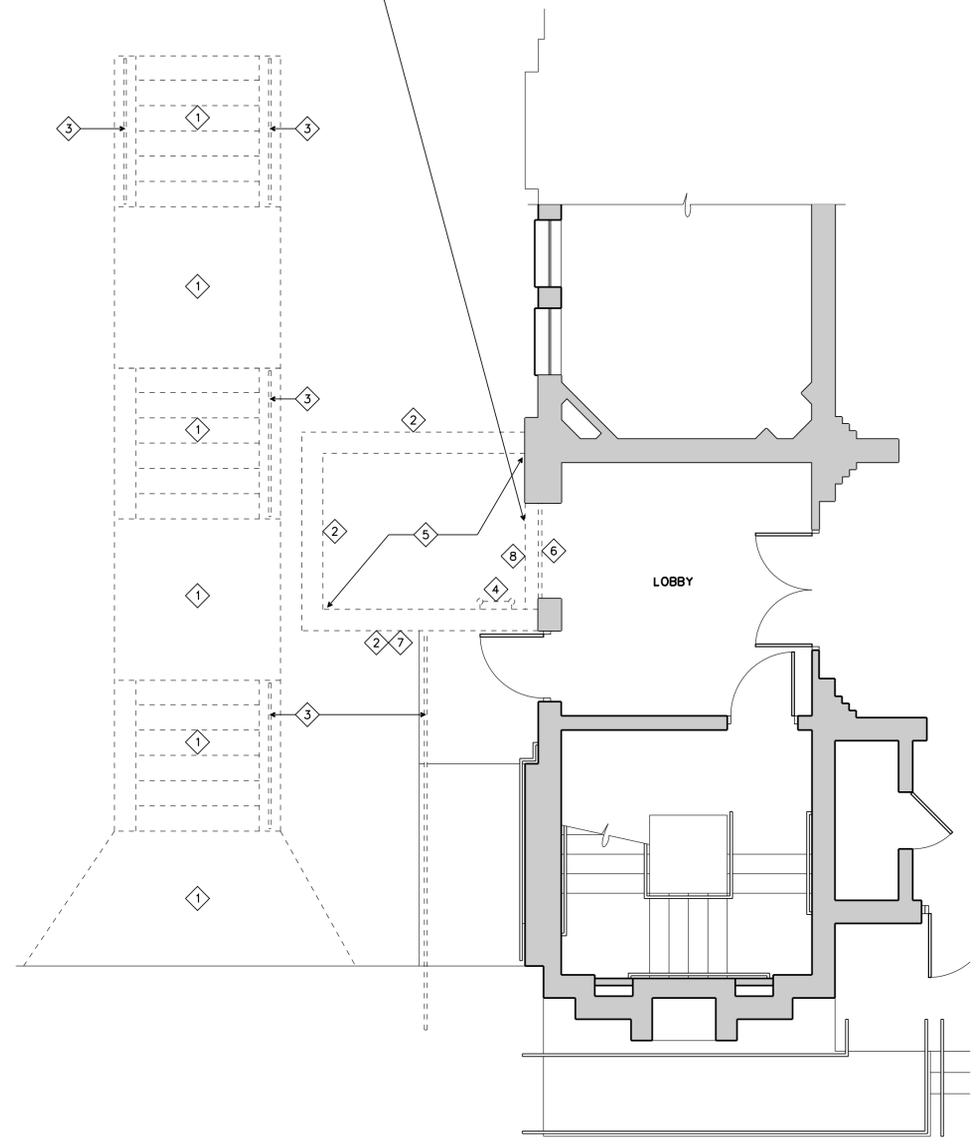


2 PARTIAL ACADEMY LEVEL DEMOLITION PLAN
D1.1 1/4" = 1'-0"



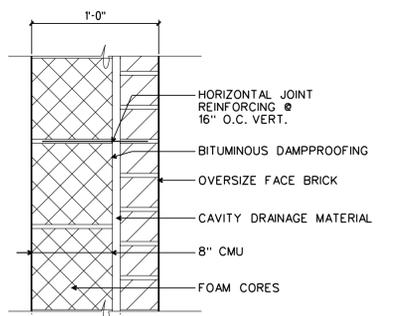
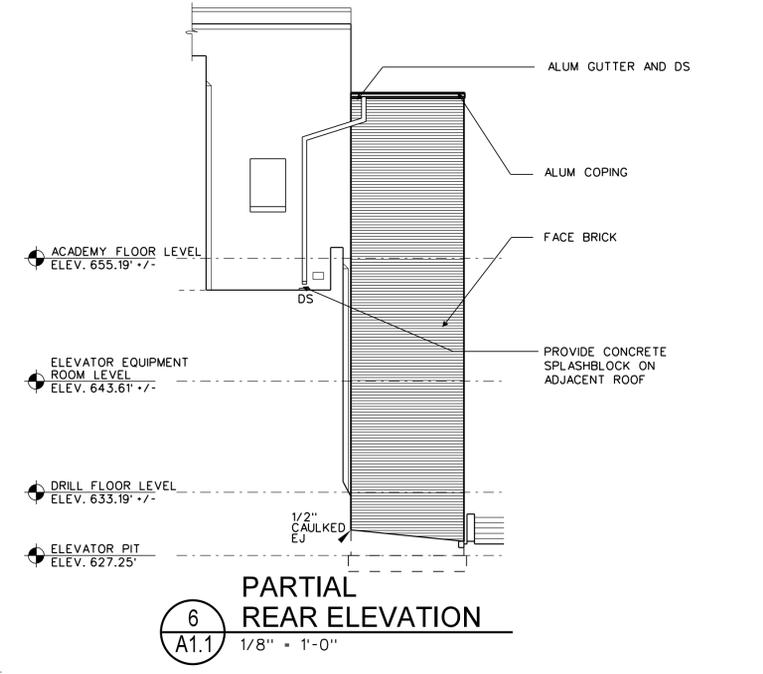
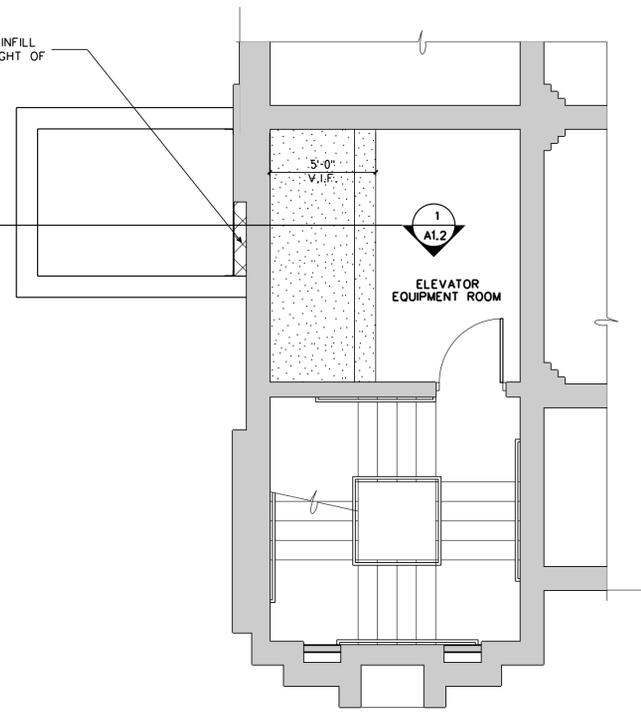
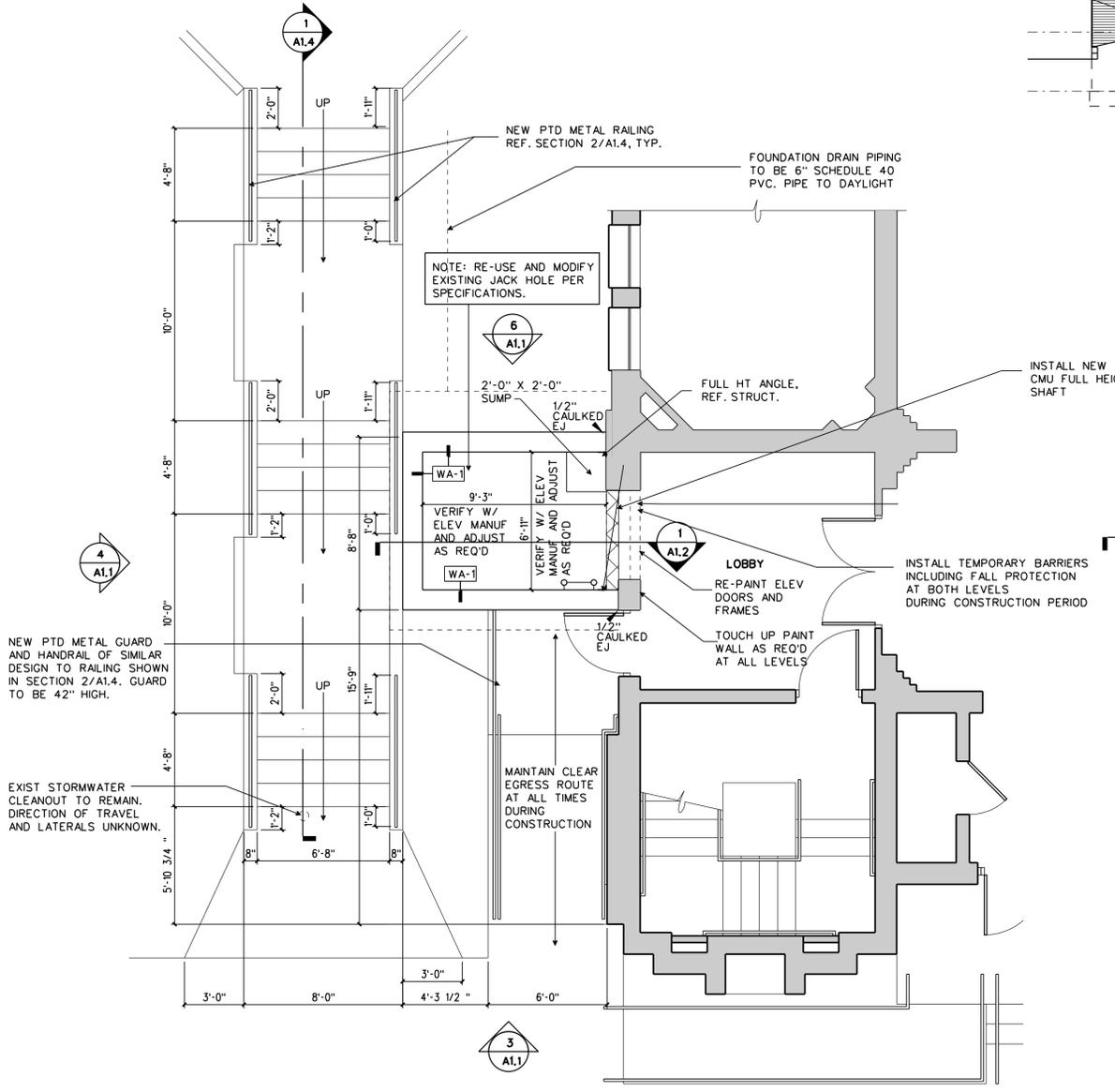
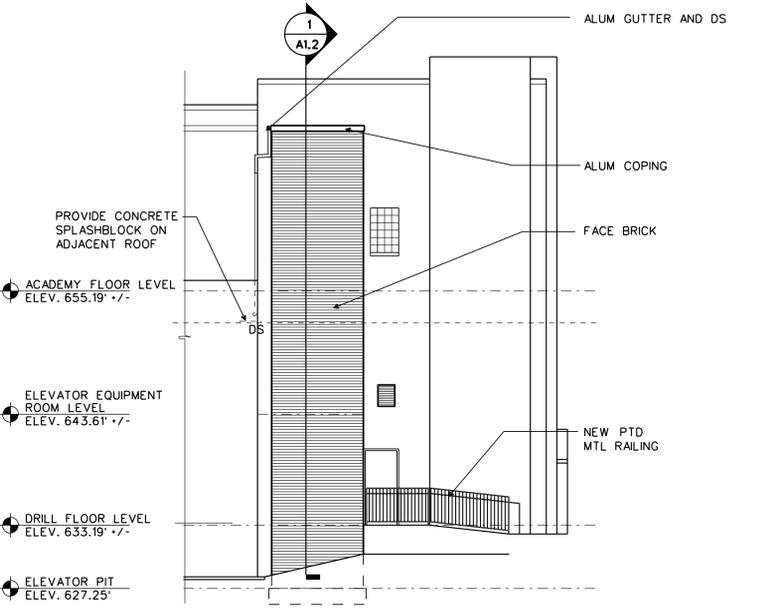
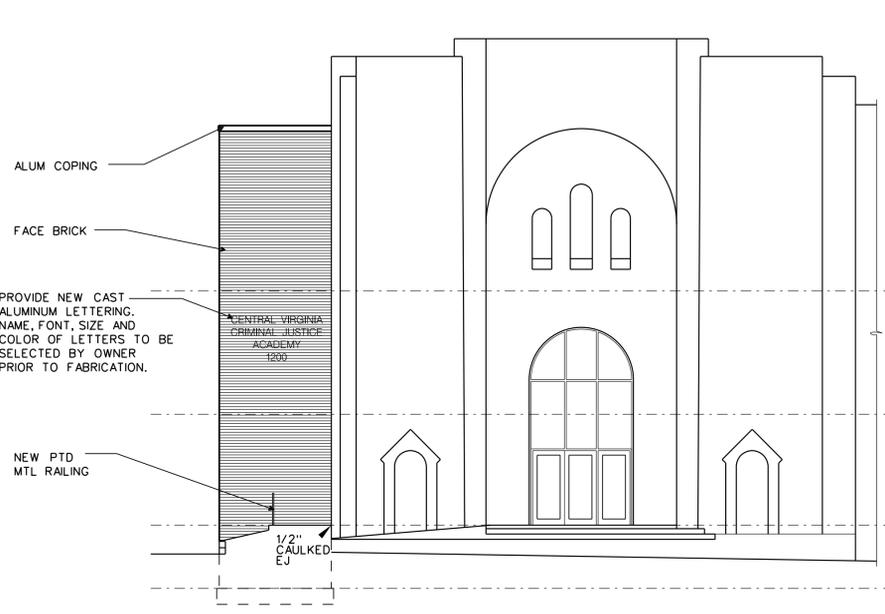
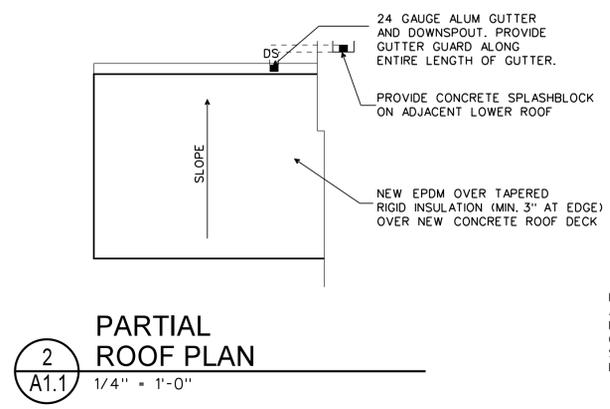
3 PARTIAL MEZZANINE LEVEL DEMOLITION PLAN
D1.1 1/4" = 1'-0"

NOTE: CONTRACTOR TO PROVIDE TEMPORARY WATERPROOFING OF FOUNDATION WALL AFTER DEMOLITION OF EXISTING ELEVATOR SHAFT AND THROUGHOUT REMAINDER OF PROJECT.



1 PARTIAL DRILL LEVEL DEMOLITION PLAN
D1.1 1/4" = 1'-0"





1
A1.1
1/4" = 1'-0"

PARTIAL DRILL LEVEL FLOOR PLAN

5
A1.1
1/4" = 1'-0"

PARTIAL MEZZANINE LEVEL FLOOR PLAN

7
A1.1
1 1/2" = 1'-0"

EXTERIOR WALL ASSEMBLY WA-1

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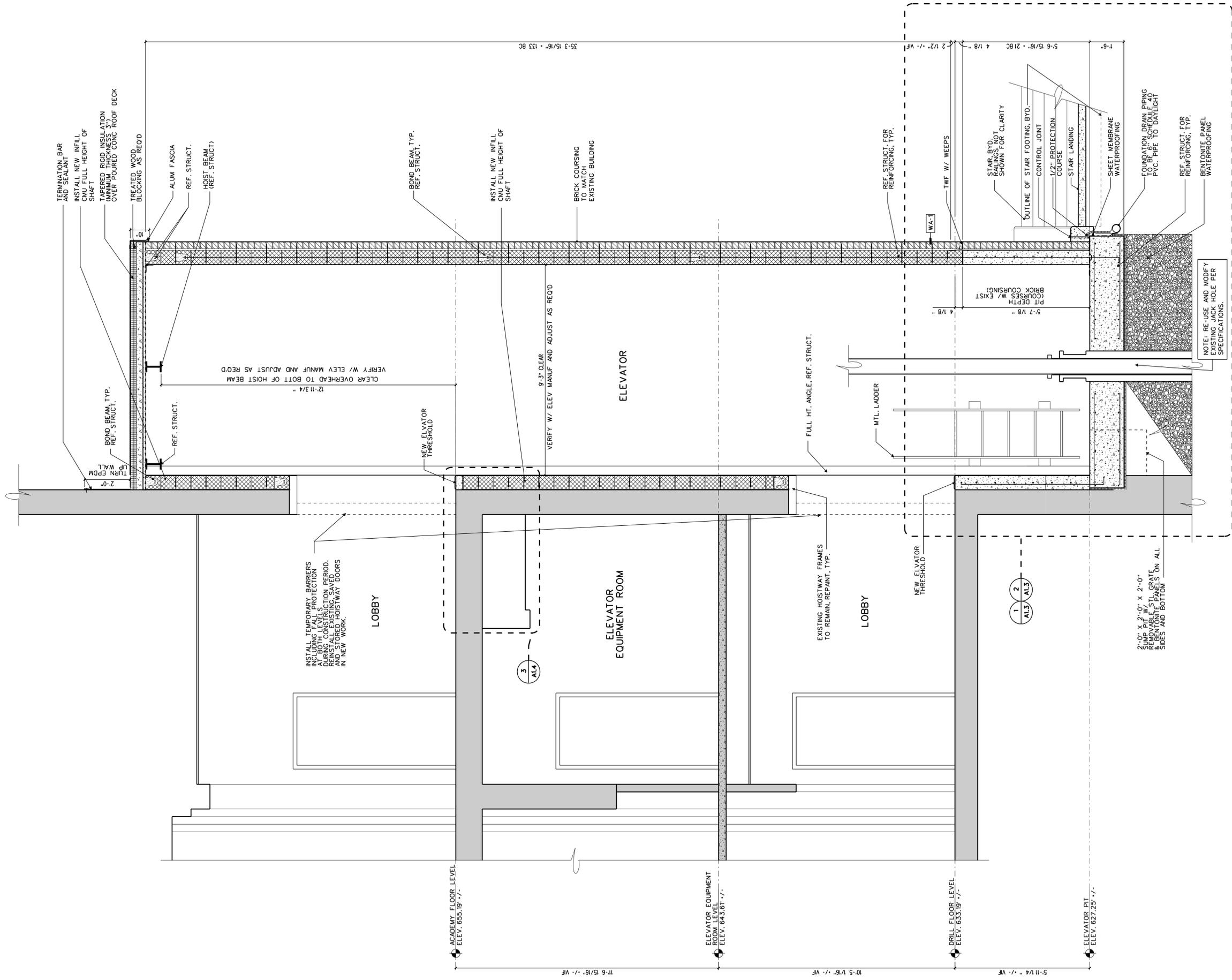


Lynchburg City Armory
Elevator Replacement
Lynchburg, VA

PARTIAL FLOOR PLANS,
ROOF PLAN, ELEVATIONS
AND
EXTERIOR WALL ASSEMBLY

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SHEET 2 OF REVISION





BASE BID
ELEVATOR SECTION

1
A1.2 1/2" = 1'-0"



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SHEET 3 OF
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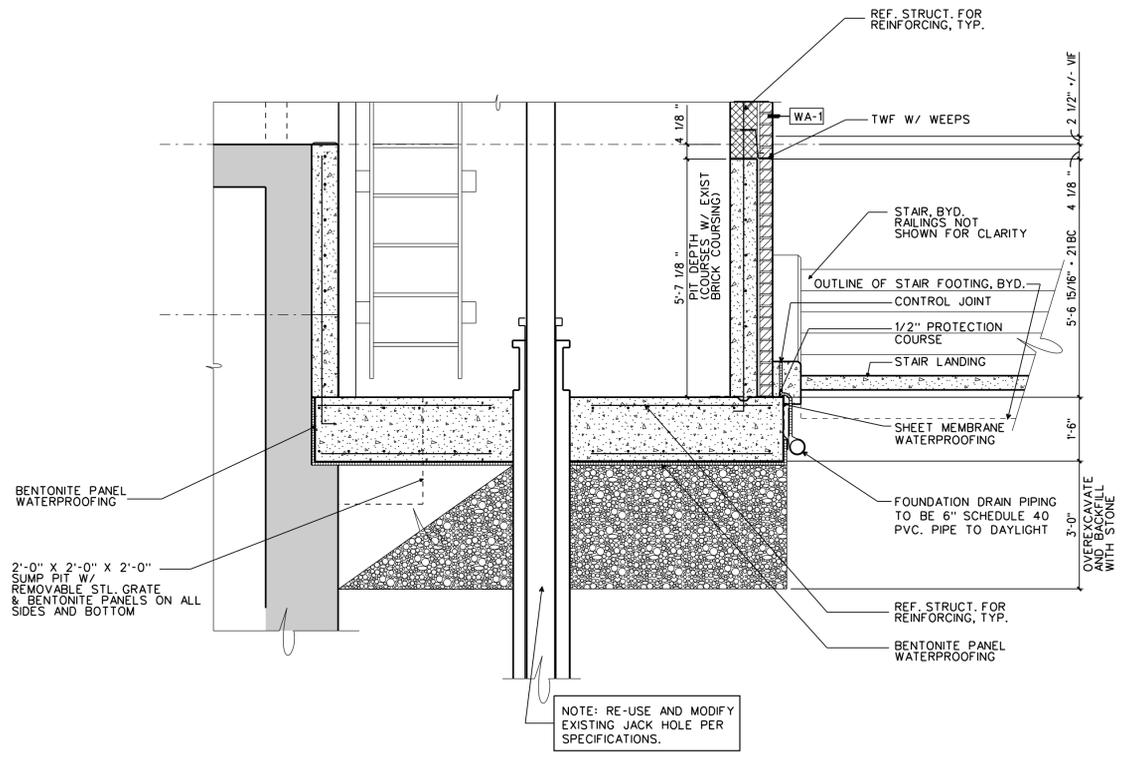


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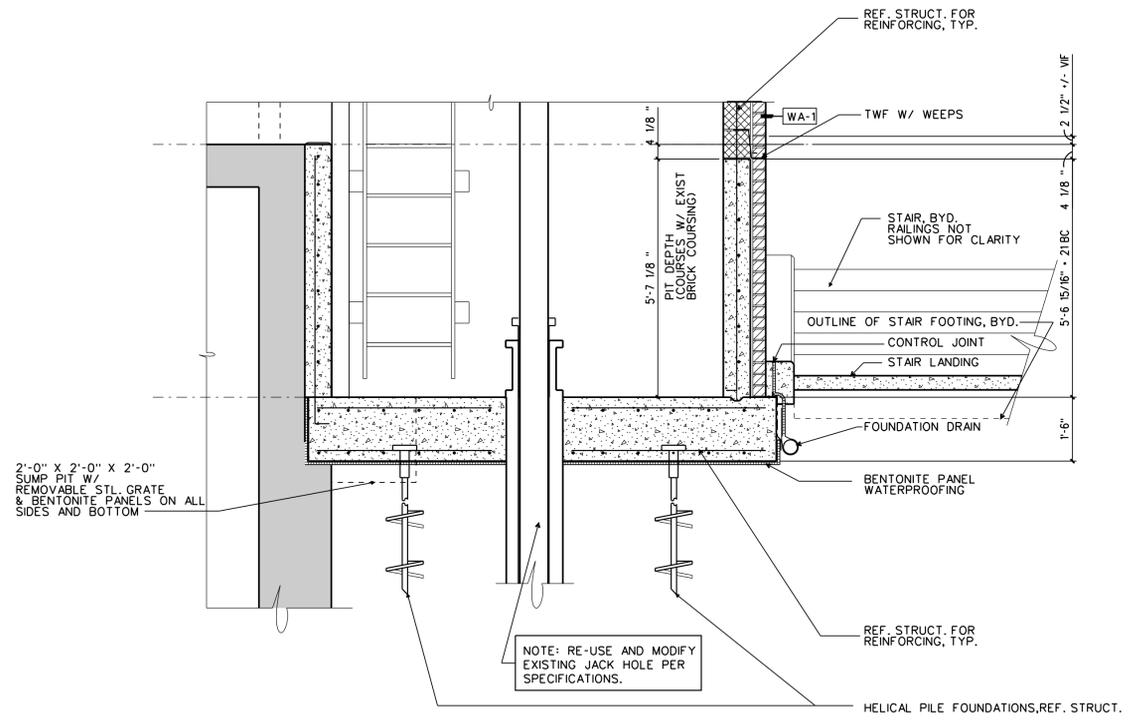
ALTERNATE #1
ELEVATOR SECTION
ALTERNATE #2
ELEVATOR SECTION

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SHEET 4 OF
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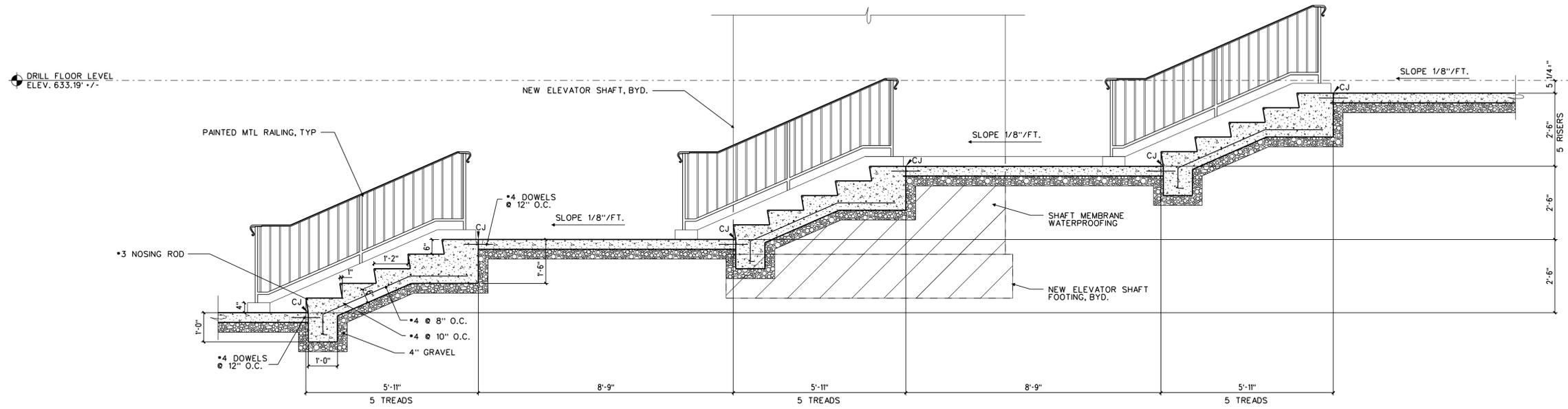


1
ALTERNATE #1
ELEVATOR SECTION
A1.3 1/2" = 1'-0"

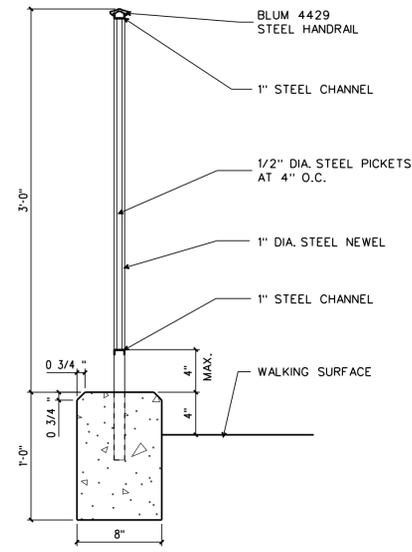


2
ALTERNATE #2
ELEVATOR SECTION
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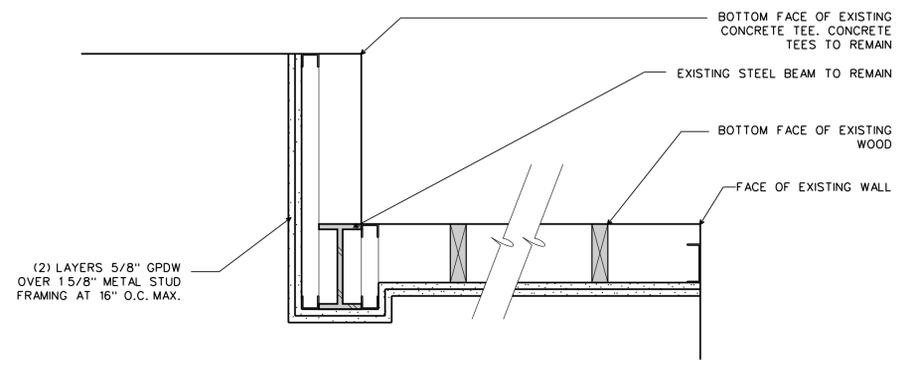




1 STAIR SECTION
 A1.4 1/2" = 1'-0"



2 RAILING SECTION
 A1.4 1 1/2" = 1'-0"



3 BULKHEAD DETAIL
 A1.4 1 1/2" = 1'-0"

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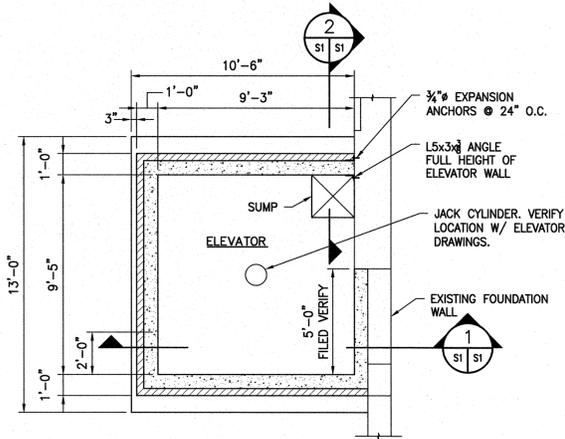
Lynchburg City Armory
 Elevator Replacement
 Lynchburg, VA

STAIR SECTION,
 HANDRAIL SECTION

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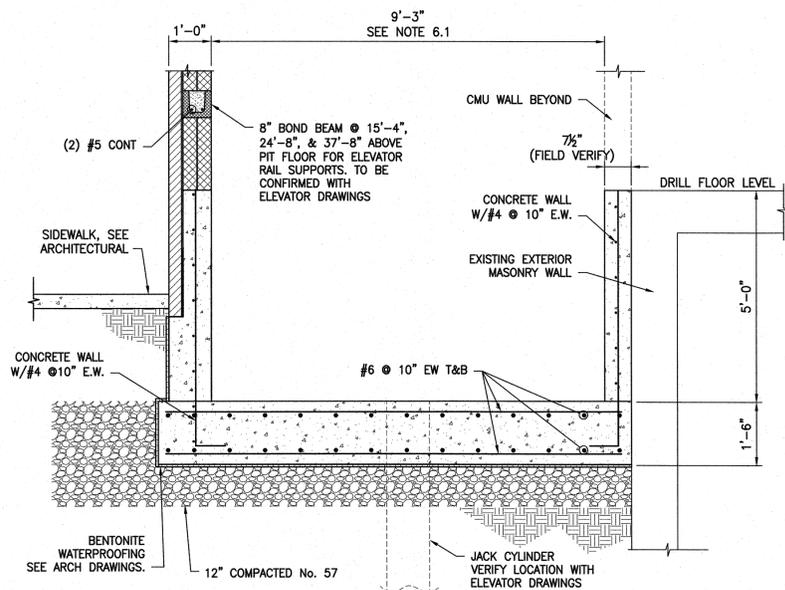
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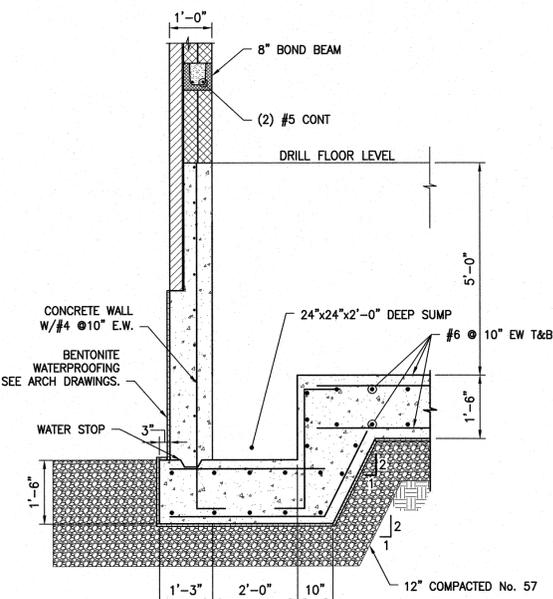
ELEVATOR FOUNDATION PLAN

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



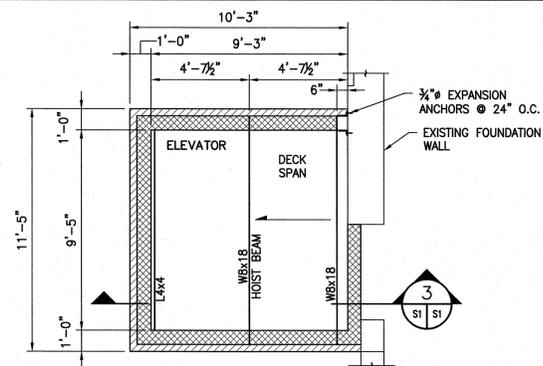
SECTION 1

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



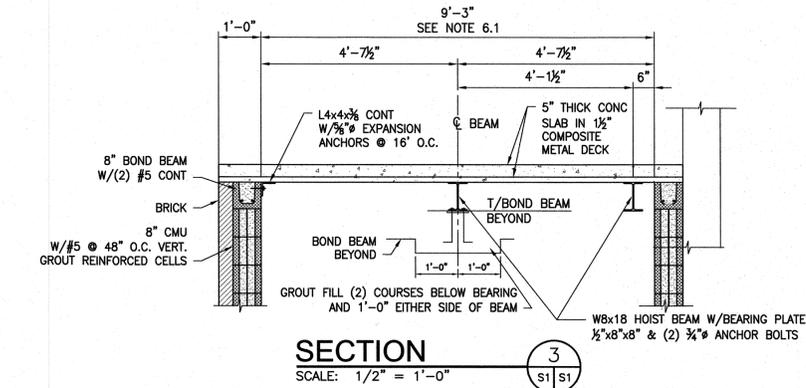
SECTION THRU SUMP 2

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



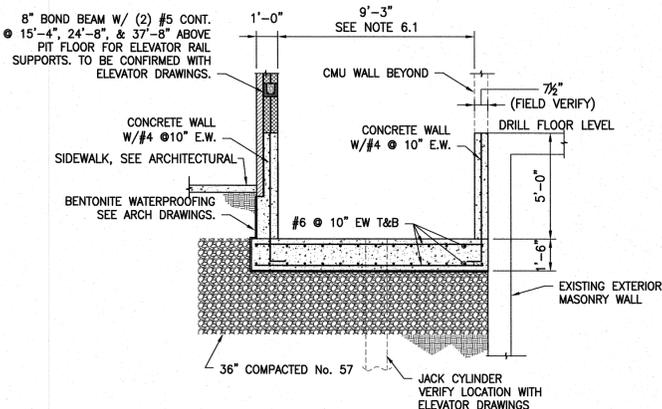
ELEVATOR ROOF FRAMING PLAN

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



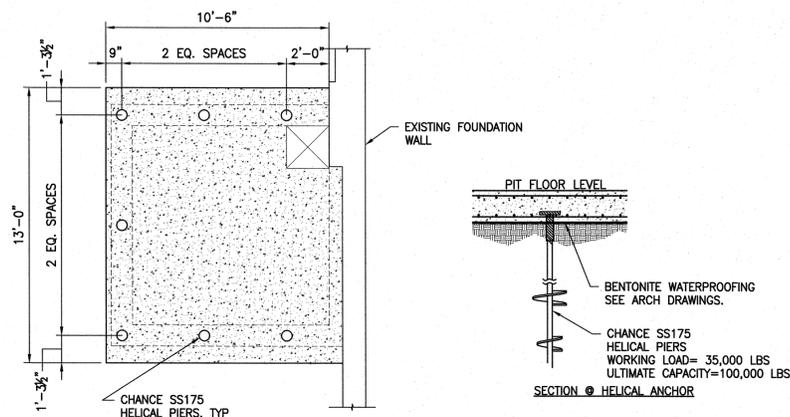
SECTION 3

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



ALTERNATE 1 ELEVATOR FOUNDATION SECTION

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



ALTERNATE 2- ELEVATOR FOUNDATION PLAN W/ PILES

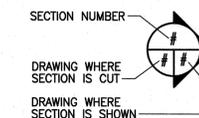
SCALE: 1/4"=1'-0"

STRUCTURAL NOTES

- GENERAL REQUIREMENTS**
 - THE ADDITION HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATION OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE.
 - CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS, REPORTING ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOP DRAWINGS SHALL REFLECT FIELD VERIFIED DIMENSIONS BEFORE SUBMITTING TO THE ENGINEER.
 - APPLICABLE CODES AND STANDARDS**
 - "VIRGINIA UNIFORM STATEWIDE BUILDING CODE" (IBC 2009).
 - ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
 - AISC, "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN".
 - STRUCTURAL WELDING CODE, AWS D1.1.
 - "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, ROOF DECKS, AND CELLULAR METAL FLOOR DECK WITH ELECTRICAL DISTRIBUTION". SDI-27, STEEL DECK INSTITUTE.
 - DESIGN LOADS**
 - LIVE LOAD ROOF 20 PSF
 - WIND LOAD BASIC WIND SPEED 90 MPH IMPORTANCE FACTOR 1.0 EXPOSURE CATEGORY C
 - SNOW LOAD GROUND SNOW LOAD 25 PSF IMPORTANCE FACTOR 1.0
 - SOIL BEARING CAPACITY**
 - THE SOIL BEARING CAPACITY IS 1,500 PSF IN ACCORDANCE WITH GEOTECHNICAL REPORT BY FROEHLING & ROBERTSON, INC., DATED 22 MAY 2013. ALL FOUNDATION SUBGRADES SHALL BE OBSERVED, EVALUATED, AND VERIFIED FOR THE DESIGN BEARING PRESSURE BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER AFTER EXCAVATION AND PRIOR TO BASE STONE PLACEMENT.
 - ENGINEERED FILL SHALL BE AN APPROVED MATERIAL PLACED IN HORIZONTAL LAYERS WITH A MAXIMUM LOOSE THICKNESS OF 8". EACH LAYER SHALL BE COMPACTED TO A DRY MINIMUM DRY DENSITY OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR METHOD). FULL-TIME DENSITY TESTS SHALL BE PERFORMED TO VERIFY COMPACTION REQUIREMENTS ARE MET.
 - AASHTO No. 57 CRUSHED STONE SHALL PLACED IN LIFTS NO GREATER THAN 2 FEET IN THICKNESS AND COMPACTED WITH VIGOROUS BLOWS OF A BACKHOE BUCKET OR SIMILAR.
 - MATERIALS**
 - CONCRETE (COMPRESSIVE STRENGTH AT 28 DAYS) FOOTING 3,500 PSI
 - REINFORCING STEEL REINFORCING BARS ASTM A615, GRADE 60 WELDED WIRE FABRIC ASTM A185
 - STRUCTURAL AND MISCELLANEOUS STEEL STEEL PLATE & ANGLE ASTM A36 W SHAPE ASTM A992 WELDING ELECTRODES E70XX
 - EXPANSION ANCHORS EXPANSION ANCHORS SHALL BE 3/8 INCH DIAMETER, HILTI HVA ADHESIVE ANCHOR (OR APPROVED EQUAL) WITH 3-1/2" MINIMUM EMBEDMENT AND SPACED AT 3'-0" ON CENTER, UNLESS NOTED OTHERWISE.
 - COMPOSITE METAL DECK DECK SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

DEPTH	1-1/2"
THICKNESS	22 GAGE
l _p	0.222 IN(4)/FT
l _n	0.186 IN(4)/FT
Sp	0.231 IN(3)/FT
Sn	0.224 IN(3)/FT
F _y	50 KSI
 - MASONRY CONCRETE MASONRY UNIT f'm=1,500 PSI MORTAR (TYPE S OR M) f'm=1,900 PSI GROUT f'm=2,000 PSI
- LOCATE #5 DOWELS INTO CONCRETE FOOTING TO MATCH VERTICAL WALL REINFORCING.
 PROVIDE A CONTINUOUS BOND BEAM WITH 2-#5 BARS AT THE TOP OF EACH WALL.

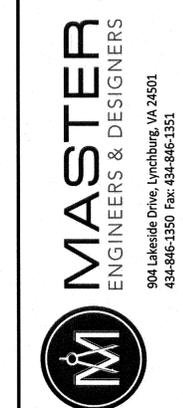
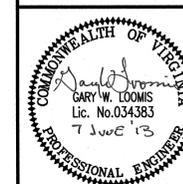
LEGEND



ABBREVIATIONS

ABBREVIATION	MEANING	ABBREVIATION	MEANING
AFF	ABOVE FINISHED FLOOR	MAX.	MAXIMUM
ARCH	ARCHITECT	MIN.	MINIMUM
B	BOTTOM	NTS	NOT TO SCALE
BM	BEAM	O.C.	ON CENTER
BRG	BEARING	PL	PLATE
CLR	CLEAR	PSF	POUNDS PER SQUARE FOOT
CMU	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	STL	STEEL
CONT	CONTINUOUS	T	TOP
DL	DEAD LOAD	TYP.	TYPICAL
EA	EACH	VERT	VERTICAL
EL	ELEVATION	W/	WITH
EW	EACH WAY	LB	POUND
F.FL	FINISHED FLOOR		

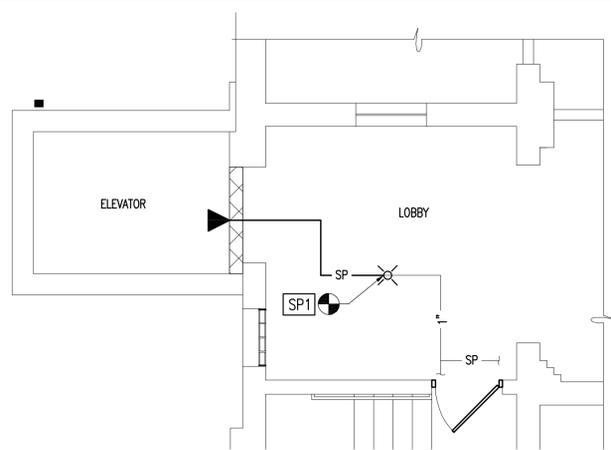
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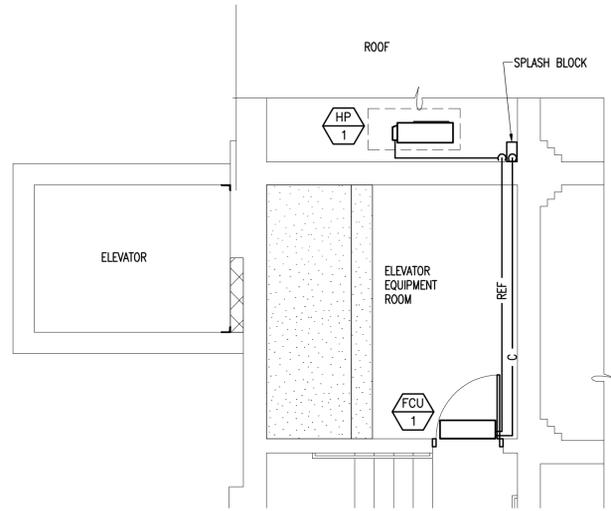
LYNCHBURG CITY ARMORY
 ELEVATOR REPLACEMENT
 LYNCHBURG, VIRGINIA

STRUCTURAL

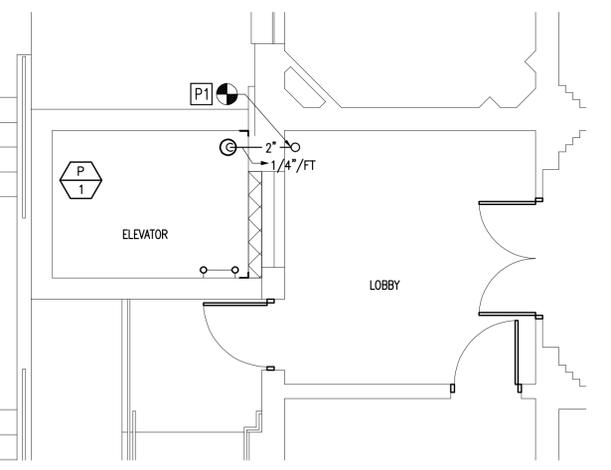
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ACADEMY FLOOR PLAN
SCALE: 1/4"=1'-0"
ACTUAL NORTH



MEZZANINE FLOOR PLAN
SCALE: 1/4"=1'-0"
ACTUAL NORTH



DRILL FLOOR PLAN
SCALE: 1/4"=1'-0"
ACTUAL NORTH

MECHANICAL LEGEND

PIPING		SYMBOLS	
— #"/FT	SANITARY SEWER & SLOPE	HP 1	HEAT PUMP
○	PIPE UP	P 1	PUMP
—	PIPE DOWN	FCU 1	FAN COIL UNIT
— SP	SPRINKLER PIPING	P#	PLUMBING NOTE
— C	CONDENSATE	SP#	SPRINKLER NOTE
— REF	REFRIGERANT LINES	●	POINT OF CONNECTION (NEW TO EXISTING)
○	STANDARD SPRINKLER HEAD		
▶	SIDEWALL SPRINKLER HEAD		

PLUMBING NOTES

P1 CONNECT TO EXISTING 4" SANITARY STACK. PROVIDE AIR GAP AND P-TRAP WITH TRAP PRIMER BEFORE CONNECTION. CONNECTION TO OCCUR BENEATH ELEVATOR LOBBY LEVEL, ABOVE MARKET LEVEL.

SPRINKLER NOTES

SP1 CONNECT TO EXISTING WET PIPE FIRE SPRINKLER PIPING. EXTEND TO SERVE ELEVATOR SHAFT. PROVIDE FLOW SWITCH AND COORDINATE WITH ELEVATOR SHUNT TRIP. VERIFY LINE SIZE AND CAPACITY PER NFPA 13 AND EXISTING HYDRAULICALLY CALCULATED SPRINKLER SYSTEM.

MISCELLANEOUS EQUIPMENT SCHEDULE	
MARK	DESCRIPTION
TRAP PRIMER	PPP MODEL LPT-1500 WITH BRAIDED 1/2" STAINLESS STEEL LINE, 5/8" COMPRESSION FITTINGS, CHROME PLATED ESCUTCHEONS.

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE							
MARK	MODEL	AREA SERVED	NOMINAL TONS	ACTUAL BTUH	HEATING MBH	V/Ph/Hz	REMARKS
HP-1	MUZ-FE09NA-1	ELEVATOR EQUIP	0.75	9,000	10.9	208/230/1/60	1,2
FCU-1	MSZ-FE09NA-8	ELEVATOR EQUIP	0.75	9,000	10.9	208/230/1/60	1,2

REMARKS:
1. MODEL NUMBER BASED ON MITSUBISHI ELECTRIC.
2. WITH UNIT-MOUNTED HEATING/COOLING THERMOSTAT SET TO MAINTAIN 90°F COOLING/50°F HEATING.

PUMP SCHEDULE									
MARK	DUTY	MODEL	RPM	HP	GPM	HEAD, Ft	V/Ph/Hz	AMPS	REMARKS
P-1	ELEVATOR PIT SUMP PUMP	SE-40 O/M ELV	3600	0.4	50	6	115/230/1/60	5/2.3	1,2

REMARKS:
1. MODEL NUMBER BASED ON STANCOR.
2. PROVIDE WITH CHECK VALVE, OIL MINDER CONTROLLER INCLUDING ALARMS, LIGHTS, SILENCE SWITCH, AND REMOTE MONITORING CIRCUIT FOR OIL, HIGH LIQUID, AND HIGH AMPERAGE CONDITIONS.

ELECTRICAL NOTES

GENERAL

SEE DRAWING NO. E1 FOR REFERENCE DRAWINGS OF EXISTING ELECTRICAL SYSTEMS.

ELEVATOR POWER

THE EXISTING ELEVATOR HYDRAULIC UNIT IS 40 HP, 240 VOLTS, 3-PHASE. IT IS UNDERSTOOD THAT THE REPLACEMENT ELEVATOR HYDRAULIC UNIT WILL BE 40 HP, 240 VOLTS, 3-PHASE.

IT IS UNDERSTOOD THAT THE BREAKER PRESENTLY FEEDING THE ELEVATOR HYDRAULIC UNIT IS LOCATED IN PANEL "A1". THIS SHOULD BE VERIFIED PRIOR TO COMMENCING CONSTRUCTION FOR LOCK OUT AND TAGGING OPERATIONS DURING CONSTRUCTION.

VERIFY WITH THE MANUFACTURER OF THE NEW ELEVATOR THAT THIS BREAKER AND FEEDER CONDUCTORS ARE PROPERLY SIZED.

IN THE ELEVATOR MACHINE ROOM, REMOVE THE 100 AMPERE, 3-POLE, 300 VOLT, FUSIBLE SAFETY SWITCH PRESENTLY SERVING THE ELEVATOR HYDRAULIC UNIT. REPLACE WITH A 3-POLE, 300 VOLT, INDIVIDUALLY-ENCLOSED (NEMA 1) MOLDED CASE CIRCUIT BREAKER. THE CIRCUIT BREAKER TRIP RATING SHALL BE AS RECOMMENDED BY THE ELEVATOR MANUFACTURER. THE CIRCUIT BREAKER SHALL BE EQUIPPED WITH A SHUNT TRIP. THE SHUNT TRIP COIL VOLTAGE SHALL BE AS DIRECTED BY THE FIRE DETECTION AND ALARM SYSTEM MANUFACTURER.

ELEVATOR CONTROLS

PROVIDE CONDUIT AND WIRING FOR THE ELEVATOR CONTROLS AS DIRECTED BY THE ELEVATOR MANUFACTURER.

MISCELLANEOUS POWER AND LIGHTING FOR THE ELEVATOR

PANEL "A3" IS PRESENTLY FED FROM A 2-POLE, 60 AMPERE TRIP BREAKER IN PANEL "A1". REPLACE FEEDER WITH A 2-POLE, 100 AMPERE TRIP BREAKER AND 3 #2 & 1 #8 EGC - 1" EMT FEEDER.

IN PANEL "A3", INSTALL A 1-POLE, 20 AMPERE TRIP CIRCUIT BREAKER TO FEED ONE RECEPTACLE IN THE ELEVATOR MACHINE ROOM AND ONE RECEPTACLE IN THE ELEVATOR SHAFT PIT. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX, NEMA 5-20R, GFI IN WEATHERPROOF DEVICE BOXES WITH WEATHERPROOF, IN-USE COVER PLATES.

IN PANEL "A3", INSTALL A 1-POLE, 20 AMPERE TRIP CIRCUIT BREAKER TO FEED A RECEPTACLE IN THE ELEVATOR SHAFT PIT TO SERVE A SUMP PUMP. RECEPTACLE SHALL BE NEMA L5-20R IN A TWO-GANG, WEATHERPROOF DEVICE BOX WITH WEATHERPROOF, IN-USE COVER PLATE. WITHIN THE DEVICE BOX, INSTALL A FACELESS, GROUND FAULT INTERRUPTER DEVICE WIRED TO THE LINE SIDE OF THE LOCKING RECEPTACLE. INSTALL A NEMA L5-20P PLUG ON THE SUMP PUMP CORD.

IN PANEL "A3", INSTALL A 1-POLE, 20 AMPERE TRIP CIRCUIT BREAKER TO FEED A FACELESS, GROUND FAULT INTERRUPTER DEVICE IN THE ELEVATOR MACHINE ROOM TO SERVE THE ELEVATOR CAB LIGHTS.

IN PANEL "A3", INSTALL A 1-POLE, 20 AMPERE TRIP CIRCUIT BREAKER TO FEED LIGHTS IN THE ELEVATOR SHAFT VIA A FACELESS, GROUND FAULT INTERRUPTER DEVICE NEAR THE BOTTOM OF THE ELEVATOR SHAFT. INSTALL THE FACELESS, GROUND FAULT INTERRUPTER DEVICE IN A TWO-GANG, WEATHERPROOF DEVICE BOX WITH WEATHERPROOF, IN-USE COVER PLATE. WITHIN THE DEVICE BOX, INSTALL A 120 / 277 VOLT, 20 AMPERE LIGHT SWITCH WIRED TO THE LOAD SIDE OF THE FACELESS, GROUND FAULT INTERRUPTER DEVICE. INSTALL ONE LITHONIA, DMF-232 LIGHT FIXTURE AT THE TOP OF THE ELEVATOR SHAFT AND ONE FIXTURE ON THE WALL IN THE ELEVATOR SHAFT PIT. WIRE FROM THE LOAD SIDE OF THE LIGHT SWITCH.

FROM PANEL "A3", RUN 8 #8 & 1 #8 EGC - 1/2" EMT TO A JUNCTION BOX IN THE ELEVATOR MACHINE ROOM. FROM THE JUNCTION BOX, RUN 2 #12 & 1 #12 EGC - 3/4" RSC / EMT TO EACH OF THE LOADS DESCRIBED ABOVE.

ALL CONDUIT IN THE ELEVATOR SHAFT SHALL BE RSC. ALL JUNCTION BOXES AND CONDUIT FITTINGS IN THE ELEVATOR SHAFT SHALL BE WATERTIGHT.

REMOVE ALL CONDUIT AND WIRING PRESENTLY SERVING THE EXHAUST FAN AND MOTORIZED EXHAUST DAMPER IN THE ELEVATOR MACHINE ROOM.

ELEVATOR MACHINE ROOM AIR CONDITIONING

IN PANEL "A3", INSTALL A 2-POLE, 15 AMPERE TRIP CIRCUIT BREAKER TO FEED THE ELEVATOR MACHINE ROOM AIR CONDITIONING EQUIPMENT. FROM PANEL "A1", RUN 2 #8 & 1 #8 EGC - 3/4" EMT TO A JUNCTION BOX IN THE ELEVATOR MACHINE ROOM.

FROM THE JUNCTION BOX, RUN 2 #12 & 1 #12 EGC - 3/4" EMT TO A NEMA 1, 2-POLE, 30 AMPERE, FUSIBLE SAFETY SWITCH ADJACENT TO THE INDOOR UNIT IN THE ELEVATOR MACHINE ROOM. INSTALL TWO FUSES SIZED AS RECOMMENDED BY THE AIR CONDITIONING EQUIPMENT FIXTURE MANUFACTURER.

FROM THE JUNCTION BOX, RUN 2 #12 & 1 #12 EGC - 3/4" RSC TO A NEMA 3R, 2-POLE, 30 AMPERE, FUSIBLE SAFETY SWITCH ADJACENT TO THE OUTDOOR UNIT. INSTALL TWO FUSES SIZED AS RECOMMENDED BY THE AIR CONDITIONING EQUIPMENT FIXTURE MANUFACTURER.

SEE MECHANICAL DRAWINGS FOR AIR CONDITIONING EQUIPMENT LOCATIONS.

FIRE DETECTION AND ALARM SYSTEM (FDAS)

THE EXISTING FDAS WAS MANUFACTURED BY CERBERUS PYROTRONICS AND WAS INSTALLED BY HUDSON-PAYNE ELECTRONICS CORPORATION OF MADISON HEIGHTS, VIRGINIA.

DISCONNECT THE INTERFACE BETWEEN THE ELEVATOR LOBBY SMOKE DETECTORS AND THE ELEVATOR CONTROLS.

PER ASME A17.1 - SAFETY CODE FOR ELEVATORS AND ESCALATORS:

INSTALL A SMOKE DETECTOR AND HEAT DETECTOR AT THE TOP OF THE ELEVATOR SHAFT. INSTALL A SMOKE DETECTOR AND HEAT DETECTOR AT THE BOTTOM OF THE ELEVATOR SHAFT. INTERFACE TO THE FDAS. COORDINATE HEAT DETECTOR TEMPERATURE SET POINT WITH SPRINKLER HEAD RELEASE TEMPERATURE. HEAT DETECTOR TEMPERATURE SET POINTS SHOULD BE HIGHER THAN SPRINKLER HEAD RELEASE TEMPERATURE.

WITHIN THE ELEVATOR MACHINE ROOM, INSTALL AN FDAS, ADDRESSABLE RELAY MODULE. INTERFACE TO THE ELEVATOR SHUNT TRIP BREAKER SO THAT POWER TO THE ELEVATOR IS DE-ENERGIZED BEFORE THE SPRINKLER HEADS IN THE ELEVATOR SHAFT RELEASE WATER.

WITHIN THE ELEVATOR MACHINE ROOM, INSTALL FDAS, ADDRESSABLE RELAY MODULE(S) INTERFACED TO THE ELEVATOR CONTROLS AS REQUIRED FOR ELEVATOR RECALL WHEN FIRE IS SENSED IN THE ELEVATOR LOBBIES AND / OR THE ELEVATOR MACHINE ROOM.

WITHIN THE ELEVATOR SHAFT, ALL FDAS WIRING SHALL BE RUN IN RSC. ALL FDAS JUNCTION BOXES AND CONNECTIONS THERETO SHALL BE WATERTIGHT. ALL OTHER FDAS WIRING SHALL BE RUN IN EMT.

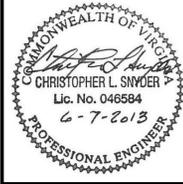
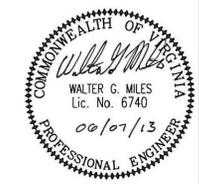
SHOP DRAWINGS

WITH THE EXCEPTION OF WIRE AND CONDUIT, SUBMIT SHOP DRAWINGS ON ALL MATERIALS MENTIONED ABOVE.

PROVIDE UPDATED FDAS RISER DIAGRAM. DIAGRAM SHALL SHOW ALL EXISTING AND NEW EQUIPMENT. EDIT ROOM NAMES TO REFLECT NAMES CURRENTLY USED.

PANEL "A3" DIRECTORY CARD

UPDATE PANEL "A3" DIRECTORY CARD.



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LYNCHBURG CITY ARMOY
ELEVATOR REPLACEMENT
LYNCHBURG, VIRGINIA

MECHANICAL & ELECTRICAL PLANS

DATE ISSUED: 06-07-13
SCALE: AS NOTED
JOB. NO. 262-214
DESIGNED: RDC/WGM
DRAWN: RDC
CHECKED: CLS/WGM
APPROVED: CLS/WGW

DRAWING NO. **ME1**
SHEET 1 OF 1
REVISION 1

