

WORK BY TRADES OTHER THAN THE ELEVATOR CONTRACTOR

THE FOLLOWING ITEMS ARE NOT INCLUDED IN THE ELEVATOR INSTALLATION CONTRACT, AND MUST BE PROVIDED BY OTHERS. IN ACCORDANCE WITH ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, AND ANY LOCAL CODES WHICH MAY APPLY:

HOISTWAY:

1. PROVIDE A CLEAR AND LEGALLY CONSTRUCTED PLUMB HOISTWAY WITH VARIATION NOT TO EXCEED 1" FOR ENTIRE HEIGHT OF HOISTWAY.
2. PROVIDE HOISTWAY VENTING AS REQUIRED BY LOCAL BUILDING CODE. HOISTWAY VENTING IS NOT REQUIRED BY ASME CODE.
3. PROVIDE 75° BEVEL GUARDS ON ALL PROJECTIONS, RECESSES AND SETBACKS OVER 4", EXCEPT ON SIDES USED FOR LOADING OR UNLOADING.
4. PROVIDE STRUCTURAL SUPPORTS FOR GUIDE RAIL BRACKETS AT LOCATIONS SHOWN BY ELEVATOR CONTRACTOR. SUPPORTS MUST BE DESIGNED TO SUPPORT AND SUSTAIN THE REQUIRED LOADS. FOR DUPLEX HOISTWAY INSTALLATIONS, PROVIDE DIVIDER BEAMS BETWEEN HOISTWAYS, IN LOCATIONS AS REQUIRED, WITH SAME LOAD CARRYING CAPABILITIES.
5. IF REQUIRED, PROVIDE FIREPROOFING AT LOCATIONS WHERE RAIL BRACKETS ARE ATTACHED TO EXPOSED STEEL, AFTER INSTALLATION OF RAILS AND BRACKETS.
6. IF INSERTS ARE TO BE USED FOR RAIL BRACKET ATTACHMENT, THE INSERTS WILL BE FURNISHED BY THE ELEVATOR CONTRACTOR AND INSTALLED BY OTHERS AS WALLS ARE ERECTED. INSERTS MUST BE INSTALLED TO ASSURE THAT SUPPORT REQUIREMENTS ARE MAINTAINED.
7. PROVIDE A HOISTING BEAM OR HOOK AT TOP OF HOISTWAY, LOCATED ON CENTERLINE GUIDES, OF SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF THE CAR AND PLUNGER. MINIMUM CAPACITY OF HOISTBEAM 15,000 LBS.
8. A DRY PIT OF PROPER DEPTH, DESIGNED TO SUPPORT AND SUSTAIN THE VERTICAL FORCES FROM THE JACK UNIT AND BUFFERS, MUST BE PROVIDED.
9. PROVIDE A VERTICAL LADDER OF NON COMBUSTIBLE MATERIAL, EXTENDING FROM PIT FLOOR TO MIN. OF 48" ABOVE LOWEST LANDING. THIS LADDER MUST BE 16" CLEAR INSIDE WIDTH AND 4 1/2" MIN FROM CENTER OF RUNG TO WALL, AND 12" CENTER TO CENTER.
10. FOR SYSTEMS WITH "IN-GROUND" JACK UNITS, A 36" SQUARE BLOCKOUT HOLE IS TO BE LEFT IN THE PIT FLOOR, CENTERED AT THE JACK LOCATION. BLOCKOUT HOLE TO BE GROUTED IN BY OTHERS AFTER JACK UNIT (OR CASING) HAS BEEN INSTALLED. IF "HOLELESS" SYSTEM IS PROVIDED, IT MAY SOMETIMES BE NECESSARY TO PROVIDE PARTIAL HOLES FOR JACK UNITS. THESE HOLES MAY NOT BE GROUTED IN AFTER INSTALLATION OF JACK UNITS (SEE CONTRACT AND LAYOUTS FOR PARTICULARS).
11. PROVIDE ANY REQUIRED HOLES, SLEEVES, OR TRENCHES WITH FILLING OR GROUTING IN THE HOISTWAY AND MACHINE ROOM WALLS, CEILING, OR FLOOR FOR INSTALLATION OF OIL LINE AND WIRING MATERIALS.
12. PROVIDE ANY RECESSES, CUTTING OR PATCHING OF THE BUILDING CONSTRUCTION NECESSARY THEREBY.
13. PROVIDE AND INSTALL ANY NECESSARY BARRICADES OR PARTITIONS.
14. IF REQUIRED PROVIDE PROPER SILL SUPPORTS AND RECESSES AS SHOWN ON LAYOUTS AND/OR ENTRANCE DRAWINGS. PROVIDE GROUTING AS REQUIRED AFTER INSTALLATION OF SILLS.
15. ENTRANCE WALLS AND FINISHED FLOOR ARE NOT TO BE ERECTED OR INSTALLED UNTIL AFTER DOOR FRAMES ARE COMPLETELY INSTALLED AND ALIGNED (SEE LAYOUTS FOR PERMISSIBLE ROUGH OPENING SIZES).
16. DOOR FRAMES ARE TO BE PROPERLY GROUTED AFTER INSTALLATION TO ASSURE LEGAL FIRE RATING.
17. PROVIDE SUITABLE STRUCTURAL DOOR FRAMES AND SILLS FOR FREIGHT OR SERVICE ELEVATORS WITH VERTICAL BI-PARTING DOORS. DOOR FRAMES AND SILLS MUST BE DESIGNED AND INSTALLED TO SUPPORT THE IMPOSED LOADS. JAMBS MUST RETURN ON HATCH SIDE AND EXTEND ABOVE OPENING AS PER FREIGHT ELEVATOR DOOR DRAWINGS.
18. ACCESS DOOR FOR GOVERNOR RESET. (IF REQUIRED)

ELEVATOR MACHINE OR CONTROL ROOM/SPACE:

19. PROVIDE A LEGALLY CONSTRUCTED AND ENCLOSED MACHINE OR CONTROL ROOM/SPACE, ADEQUATELY LIGHTED, AND CONDITIONED TO MAINTAIN TEMPERATURE BETWEEN 65° TO 95° FAHRENHEIT, RELATIVE HUMIDITY IS NOT TO EXCEED 95% NON-CONDENSING.
 20. MACHINE OR CONTROL ROOM/SPACE DOOR TO BE SIZED FOR ACCESS OF ELEVATOR POWER UNIT, ABLE TO OPEN FROM INSIDE WITHOUT USE OF KEY AND MUST BE SELF CLOSING AND LOCKING.
 21. MACHINE OR CONTROL ROOM/SPACE MUST BE OF ADEQUATE SIZE TO PROVIDE CLEARANCES AROUND AND BETWEEN EQUIPMENT AS REQUIRED BY CODE.
 22. PROVIDE A ABC FIRE EXTINGUISHER IN THE MACHINE OR CONTROL ROOM/SPACE MOUNTED ON THE DOOR STRIKE WALL.
- ELECTRICAL:** (ALL ELECTRICAL TO BE IN ACCORDANCE WITH REQUIREMENTS OF ASME A17.1 AND NFPA 70)
23. PROVIDE 110 VAC SERVICE FOR ELEVATOR LIGHT AND ACCESSORIES CONNECTED TO THE CAR LIGHT SERVICE TERMINAL ON THE ELEVATOR CONTROLLER IN THE MACHINE OR CONTROL ROOM/SPACE. A SINGLE DISCONNECTING MEANS FOR THE CAR LIGHT AND ACCESSORIES SHALL BE LOCATED IN THE MACHINE ROOM AND ARRANGED TO BE LOCKED IN THE OPEN POSITION.
 24. PROVIDE A 110 VAC OUTLET IN THE ELEVATOR PIT.
 25. PROVIDE A GUARDED LIGHT AND SWITCH IN THE ELEVATOR PIT. LIGHT FIXTURE MUST BE LOCATED TO CLEAR THE ELEVATOR CAR AND SWITCH MUST BE ACCESSIBLE FROM THE LOWEST LANDING.
 26. PROVIDE LIGHT, SWITCH AND 110 VAC GFI OUTLET IN THE MACHINE OR CONTROL ROOM/SPACE, WITH SWITCH LOCATED ADJACENT TO THE MACHINE ROOM.
 27. IF ELEVATOR SYSTEM IS MULTIPLE OPERATION, SUPPLY ADDITIONAL SEPARATE 110 VAC POWER SOURCE IN THE ELEVATOR MACHINE OR CONTROL ROOM/SPACE.
 28. PROVIDE A FUSED DISCONNECT SWITCH FOR EACH ELEVATOR IN THE MACHINE OR CONTROL ROOM/SPACE, LOCATED IN A POSITION BASED ON LOCAL CODE AND WITHIN SIGHT OF ELEVATOR EQUIPMENT, AND ARRANGED TO BE LOCKED IN THE OFF POSITION. THE DISCONNECT SWITCH AND WIRING SHALL BE OF AMPLE CAPACITY FOR THE ELEVATOR MOTOR AND EQUIPMENT AND WIRING SHALL BE EXTENDED FROM THIS SWITCH TO THE TERMINALS ON THE ELEVATOR MOTOR STARTER PANEL. IF THE ELEVATOR POWER UNIT INCLUDES A MULTIPLE MOTOR ARRANGEMENT, SEPARATE FUSING MUST BE PROVIDED FOR EACH MOTOR, BUT ALL MOTORS MUST BE DISCONNECTED BY A SINGLE SWITCH LEVER.
 29. IF ELEVATOR IS TO OPERATE FROM AN EMERGENCY POWER GENERATOR (PROVIDED BY OTHERS), PROVIDE AN ISOLATED CONTACT IN THE DISCONNECT SWITCH TO SIGNAL WHEN SYSTEM IS OPERATING ON EMERGENCY POWER WITH A SINGLE LEVER.
 30. IF ELEVATOR IS TO OPERATE FROM A BATTERY POWERED EMERGENCY LOWERING DEVICE, PROVIDE AN AUXILIARY DRY CONTACT TO THE ELEVATOR CONTROLLER IN THE DISCONNECT SWITCH AND THE SHUNT TRIP BREAKER TO THE ELEVATOR CONTROLLER.
 31. WHEN FIRE SERVICE IS INCLUDED, PROVIDE SMOKE SENSING DEVICES IN EACH ELEVATOR LOBBY AND OTHER LOCATIONS AS REQUIRED BY CODE. HEAT SENSORS MUST BE WITHIN 24" OF ANY SPRINKLERS AND MUST BE ARRANGED TO INTERFACE WITH ELEVATOR CONTROL EQUIPMENT AND WIRING FROM THESE DEVICES IS TO BE EXTENDED TO THE TERMINALS OR THE ELEVATOR CONTROLLER IN THE MACHINE OR CONTROL ROOM/SPACE.
 32. PROVIDE A DEDICATED LINE FOR TELEPHONE TO TERMINALS ON THE ELEVATOR CONTROL PANEL IN THE MACHINE OR CONTROL ROOM/SPACE. PROVIDE TELEPHONE INSTRUMENT IF NOT SPECIFIED AS BEING PROVIDED BY THE ELEVATOR CONTRACTOR. TELEPHONE MUST BE ANSWERED 24 HOURS A DAY-7 DAYS A WEEK. BY A PROVIDED SERVICE.
 33. PROVIDE ANY INTERCOM, PAGING, TELEVISION OR MONITORING SYSTEMS, AND ALL WIRING TO THE ELEVATOR MACHINE OR CONTROL ROOM/SPACE CONTROL PANEL FOR DEVICES THAT ARE REQUIRED, BUT NOT SPECIFIED AS FURNISHED BY ELEVATOR CONTRACTOR.

GENERAL:

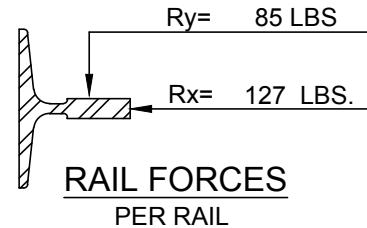
34. PROVIDE NECESSARY POWER AT ELEVATOR LOCATION, FOR INSTALLING AND ADJUSTING, WITHOUT CHARGE.
35. PROVIDE A SECURE, DRY SPACE FOR STORAGE OF ELEVATOR EQUIPMENT AND TOOLS AND SUPPLIES. SPACE SHALL BE AVAILABLE AT TIME OF RECEIPT OF EQUIPMENT AT THE JOB SITE AND DURING INSTALLATION.
36. PROVIDE ANY ITEM OR DETAIL REQUIRED, FOR THE INSTALLATION BUT NOT SPECIFICALLY SPECIFIED AS BEING FURNISHED BY THE ELEVATOR CONTRACTOR.
37. PROVIDE SUMP PIT AND PUMP AS PER APPLICABLE ASME A17.1 CODE FOR ELEVATORS, SECTION 2.2.2.5. HOLDING TANK TO BE IN ACCORDANCE WITH LOCAL BUILDING CODES.

SPECIFICATIONS AND DATA

CAR NO.	ONE
CLASSIFICATION	PASSENGER
TYPE	TWIN JACK HOLELESS HYDRAULIC - MRL
CAPACITY	2100 LBS.
RATED SPEED	100 F.P.M.
TRAVEL	12'-0"
NO. LANDINGS	2
NO. OF OPENINGS	2
FRONT OPENINGS	2
REAR OPENINGS	-
DOOR TYPE	SSSO (LH)
DOOR SIZE	3'-0"W x 8'-0"H
PLATFORM SIZE	6'-0"W x 5'-1"D
RECESS FOR FLOORING	1/4" STANDARD
DOOR OPERATOR	GAL (MOVFR11)
CAR DOOR PROTECTION	INFRARED LIGHT CURTAIN
GUIDE RAILS	15#
GUIDE SHOES	ELPRO 36SRG - ROLLER
OPERATION	SELECTIVE / COLLECTIVE
FIRE SERVICE	PHASE I & II w/ALTERNATE
LOBBY / ALT. FLOOR	*1 / 2
SIGNAL VOLTAGE	24V DC
FIXTURE MFG.	INNOVATION INDUSTRIES
SIGNALS	(SEE FIXTURE PRINTS)
CAR DOOR WEIGHT	156 LBS
HOISTWAY DOOR WEIGHT	168 LBS
MIN. DOOR CLOSING TIME	1.57 SECONDS
MIN. NUDGING CLOSE TIME	2.62 SECONDS
SEISMIC ZONE	0 / 1
ELEVATOR CODE AND YR	ASME A17.1-2016

TECHNICAL DATA

CAR NO.	ONE
POWER SUPPLY	208 V / 3PH / 60Hz
POWER UNIT	SUBMERSIBLE
CONTROL VALVE	MAXTON W/DOWN SPEED CONTROL
PUMP	IMO
MOTOR HORSEPOWER	25 HP (80 ST/HR)
FL / LR AMPS	78.2 FLA / 391 LRA
WORKING PRESSURE	419 PSI
GALLONS PER MINUTE	71 G.P.M.
PLUNGER O.D.	2.95"
PLUNGER WALL	.183"
PLUNGER STROKE	13'-9"
CYLINDER O.D.	4.5" ACTUAL
CYLINDER LENGTH	14'-2 7/8"
COUPLING O.D.	N/A
CYLINDER JOINT	N/A
CYLINDER PROTECTION	N/A
CAR WEIGHT	2,960 LBS.
PLUNGER WEIGHT	146 LBS.
GROSS LOAD	5,206 LBS.
STILE SIZE	8" CHANNEL
TYPE OF STARTER	SOLID STATE
CONTROLLER	MICROPROCESSOR
ASTM PIPE GRADE	ASTM A53 GRADE "B" SCH 40
OIL LINE SIZE	2" (VIC)
OIL TO FILL SYSTEM	88 GALLONS
BUFFER STROKE	2 1/2"
TOP/BOTTOM OVERTRAVEL	9" TOP / 12" BOTTOM



	LBS.
GROSS LOAD	5,206
LOAD ON JACK ASSEMBLY	11,042
LOAD ON BUFFER SPRINGS	12,572

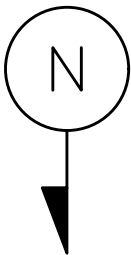
FINAL

REVISION RECORD				
REV	DATE	BY	CHKD	DESCRIPTION
A	09/12/19	CDS	TT	PRELIMINARY
B	09/24/19	TT		ADD JAMB MOUNT ACCESS SWITCH, FINALIZE

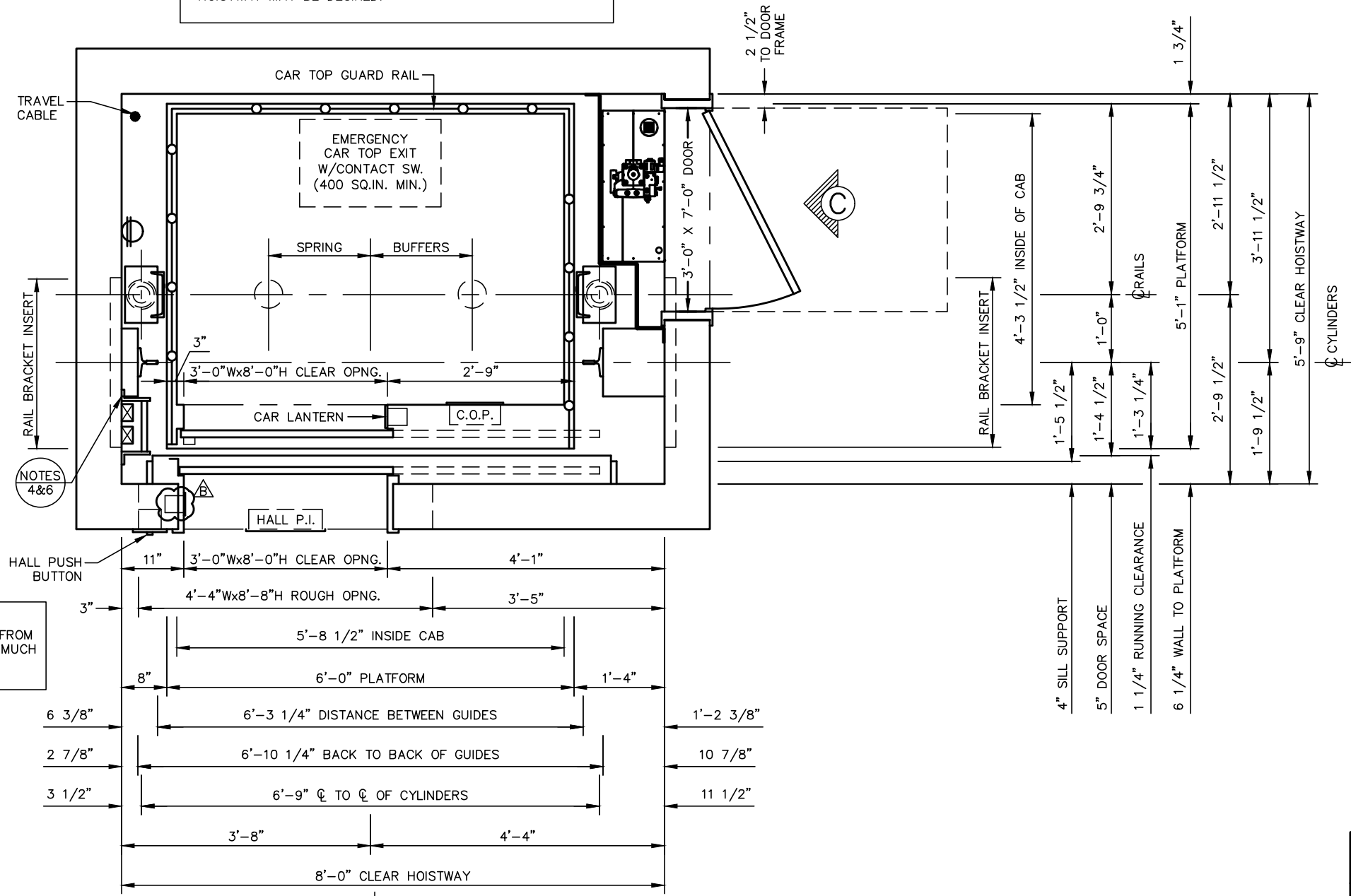
ELEVATOR LAYOUT

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PROJECT	PRINCE FREDERICK VOLUNTEER FIRE STATION PRINCE FREDERICK, MD 20678		
ARCHITECT	BIGNELL WATKINS HASSER ARCHITECTS P.C.		
GENERAL CONTRACTOR	S E DAVIS CONSTRUCTION, LLC		
PROJECT COORDINATOR	TOM TAYLOR - EXT 1209		
CONTRACT NO.	DEI NO.	SHEET	REV
	19-32300	1 OF 6	B




NOTE:
HYDRAULIC MRL EQUIPMENT TYPICALLY GENERATE HIGHER NOISE LEVELS THAN STANDARD HYDRAULIC UNITS LOCATED INSIDE A SEPARATE MACHINE ROOM. DUE TO THE ELEVATED NOISE LEVEL, ADDITIONAL SOUND PROOFING OF THE HOISTWAY MAY BE DESIRED.

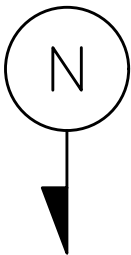


NOTE:
LADDER DIMENSIONS HAVE BEEN MODIFIED FROM STANDARD DIMENSIONS TO ALLOW FOR AS MUCH CODE REQUIRED CLEARANCE AS POSSIBLE.

HOISTWAY PLAN

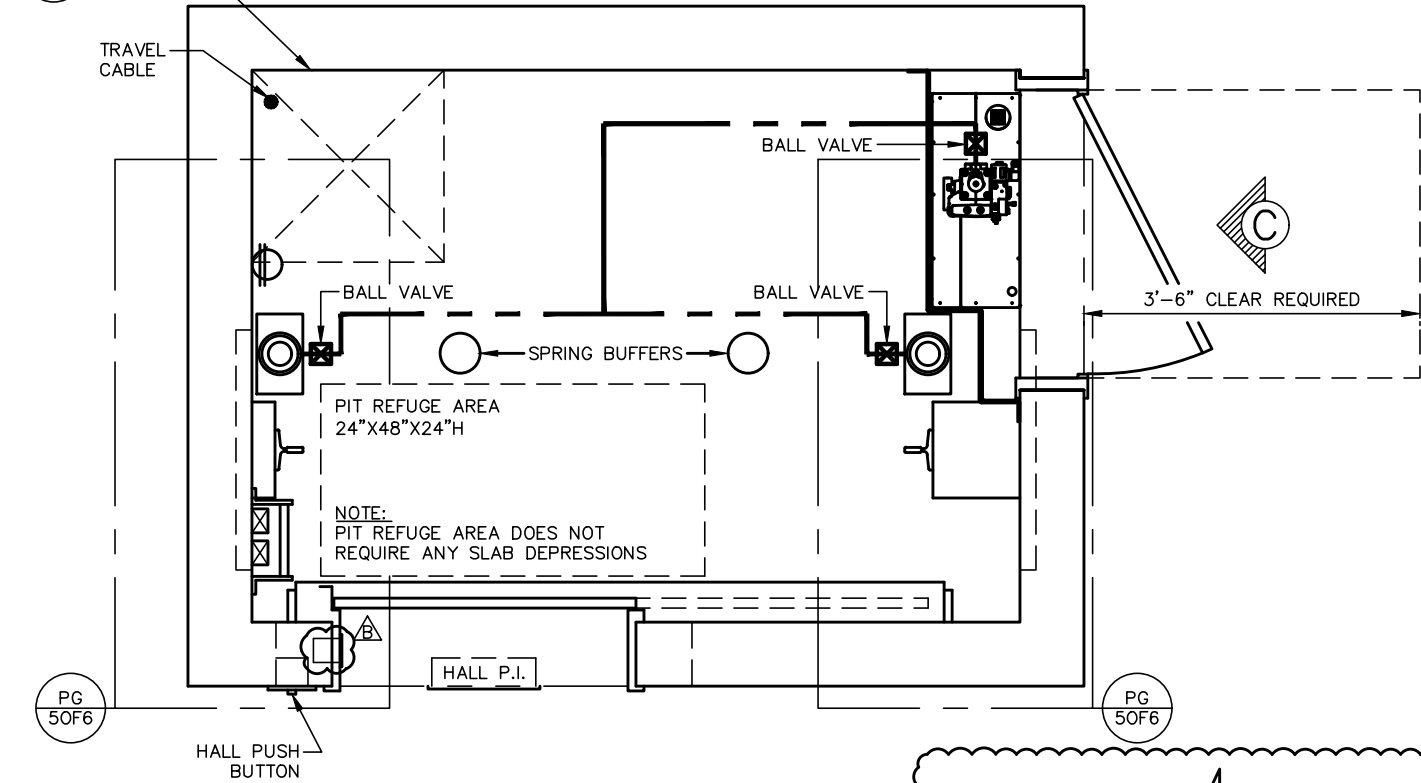
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	19-32300	2 OF 6	B



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NOTE SUMP PIT (BY OTHERS)
37



PIT REFUGE AREA
24\"/>

NOTE:
PIT REFUGE AREA DOES NOT REQUIRE ANY SLAB DEPRESSIONS

PG 50F6

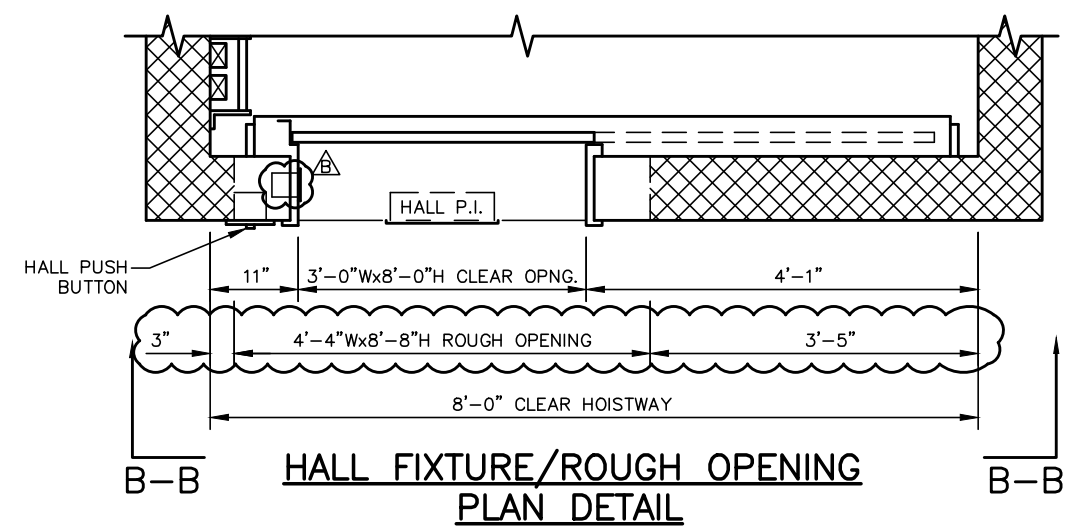
PG 50F6

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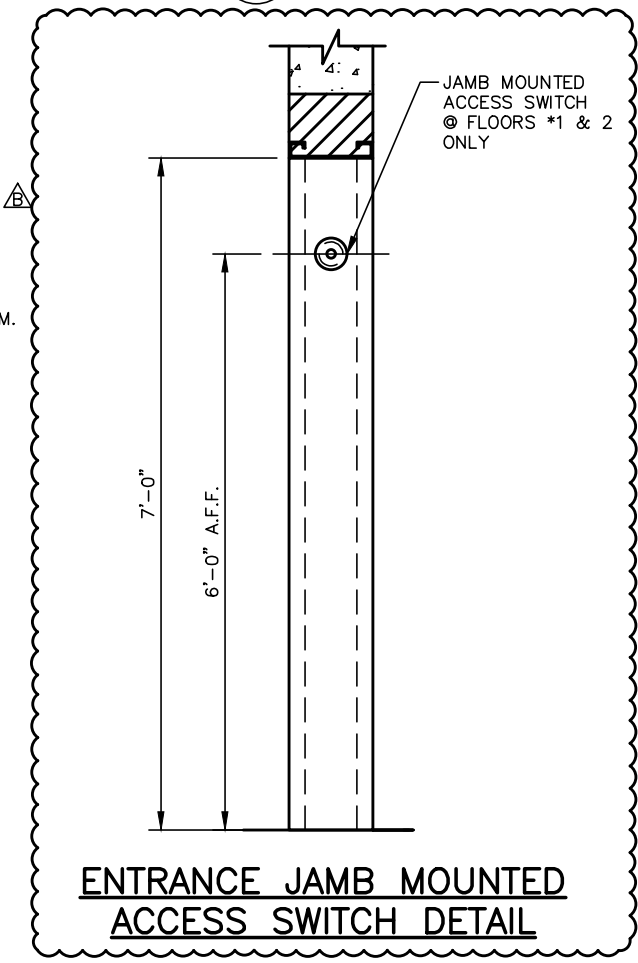
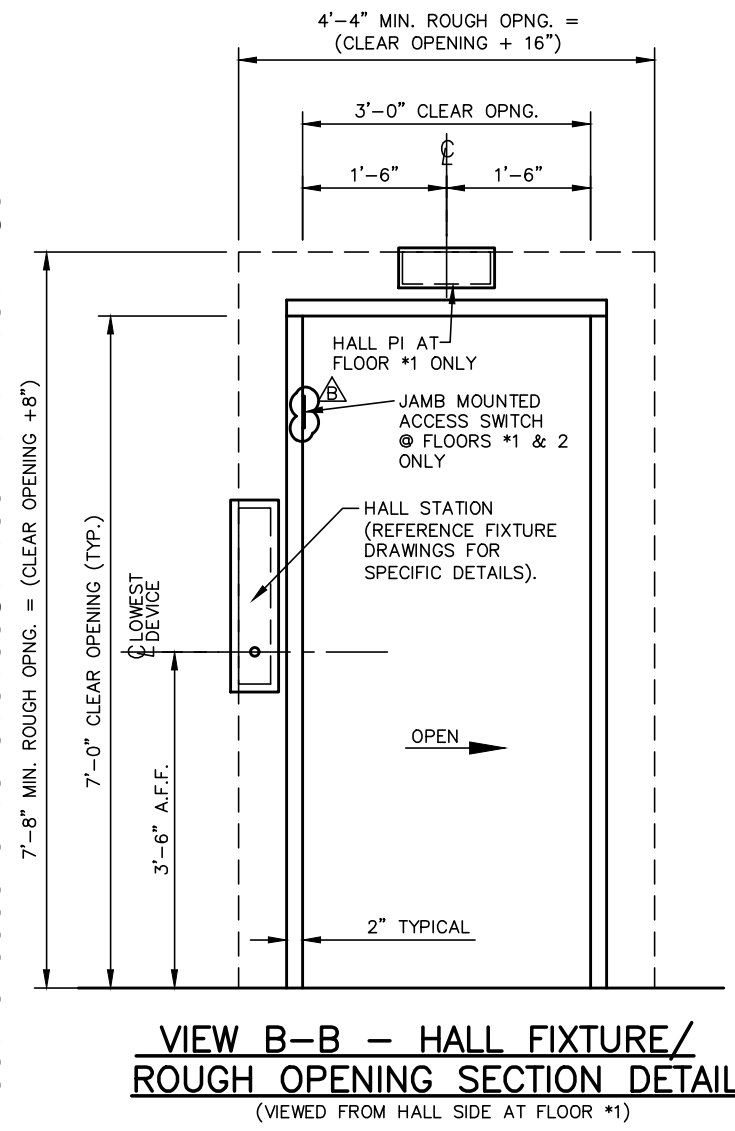
PIT PLAN

NOTES:

1. MACHINE ROOM CLIMATE CONTROL EQUIPMENT AND/OR ANY RELATED CONDENSATION DRAINS FROM SAID EQUIPMENT SHALL NOT BE LOCATED ABOVE ANY ELECTRICAL OR ELEVATOR EQUIPMENT (ASME A17.1-2.8.5).
2. MINIMUM CLEAR HEADROOM IS 7'-0" THROUGHOUT ENTIRE MACHINE ROOM.
3. HEAT RELEASE: 9,975 BTU/HR
4. REFERENCE NOTES 19-22 SHEET 1



NOTE:
ENTRANCE FRAMES MUST NOT RECEIVE ANY PRESSURE OR DAMAGE FROM BLOCKING AND MORTAR, AS THIS COULD POSSIBLY SKEW THE ENTRANCE FRAMES FROM REMAINING PLUMB. PROTECTION OF FRAME AND SHAPE OF FRAME IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, ONCE DEI IS COMPLETE WITH FRAME INSTALLATION. DEI WILL NOT ACCEPT RESPONSIBILITY FOR ANY DAMAGES OR DISTORTION OF THE FRAME AFTER THE INSTALL OF SAID FRAME IS COMPLETE.



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PROJECT
**PRINCE FREDERICK VOLUNTEER
FIRE STATION
PRINCE FREDERICK, MD 20678**

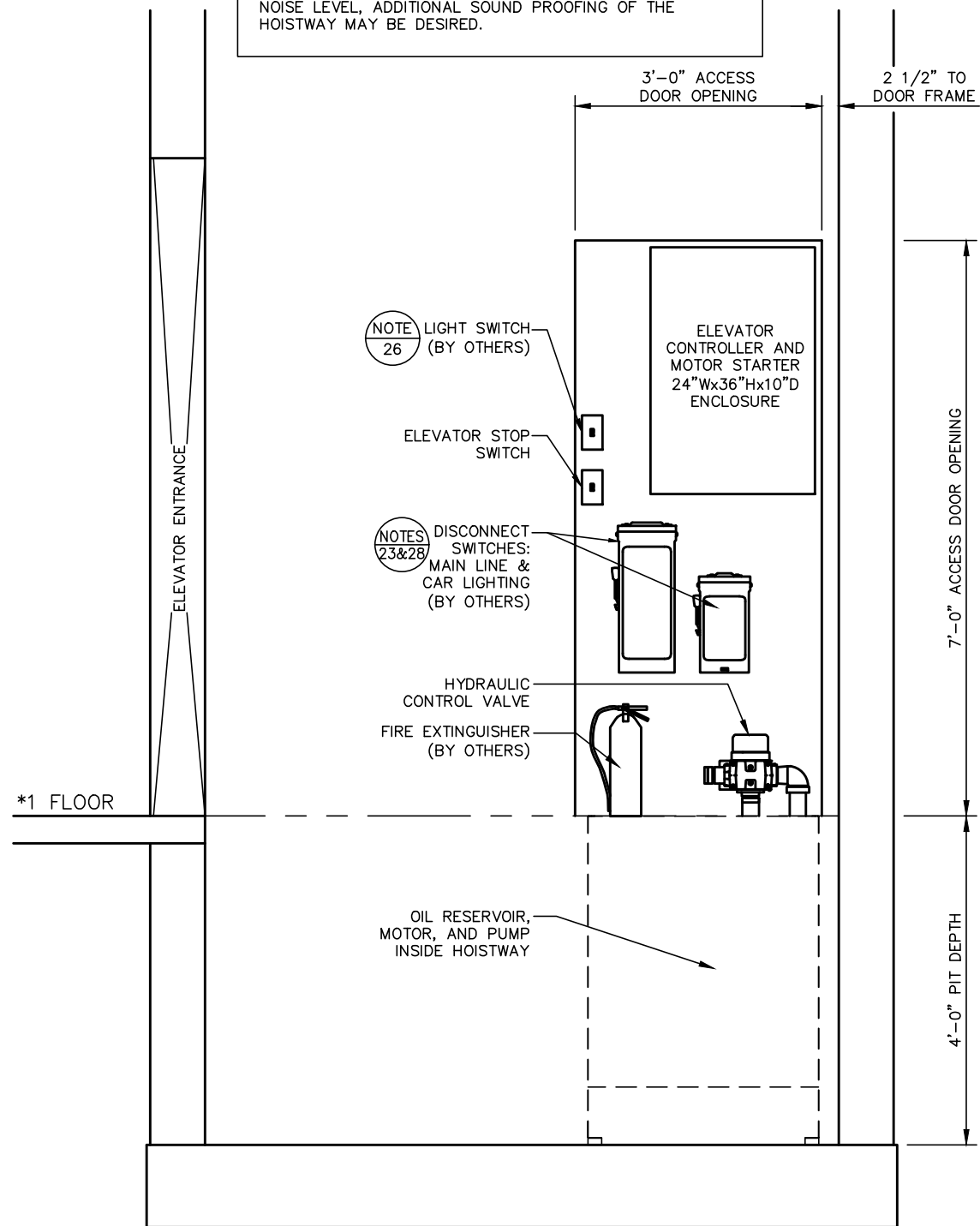
ARCHITECT
BIGNELL WATKINS HASSER ARCHITECTS P.C.

GENERAL CONTRACTOR
S E DAVIS CONSTRUCTION, LLC

PROJECT COORDINATOR
TOM TAYLOR - EXT 1209

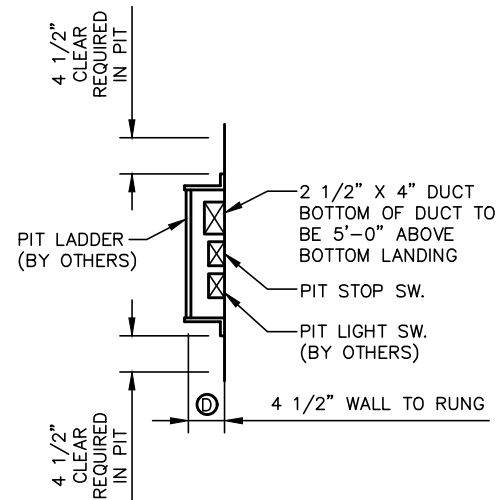
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NOTE:
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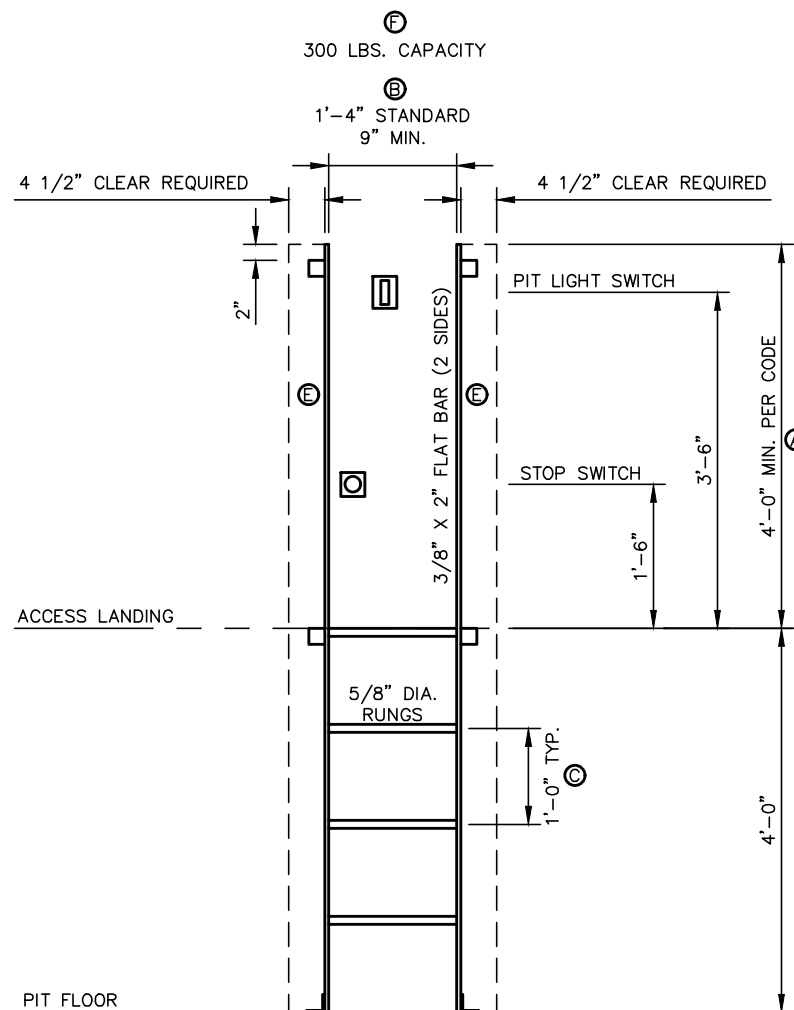


VIEW "C" - MACHINE/CONTROL SPACE

NOTE:
CONTROL SPACE IS ACCESSED FROM OUTSIDE OF HOISTWAY AT THE BOTTOM LANDING VIA SELF CLOSING/SELF LOCKING U.L. LABELD DOOR ASSEMBLY PROVIDED BY GENERAL CONTRACTOR



PIT LADDER DETAIL



PIT LADDER ELEVATION DETAIL

LADDER RELATED CODE REQUIREMENTS:

- A. 2.2.4.2.1
THE LADDER SHALL EXTEND NOT LESS THAN 1,200mm (48 IN.) ABOVE THE SILL OF THE ACCESS DOOR OF HANDGRIPS SHALL BE PROVIDED TO THE SAME HEIGHT.
- B. 2.2.4.2.2
THE LADDER RUNGS, CLEATS, OR STEPS SHALL BE A MINIMUM OF 400mm (16 IN.) WIDE. WHEN OBSTRUCTIONS ARE ENCOUNTERED, THE WIDTH SHALL BE PERMITTED TO BE DECREASED TO LESS THAN 400mm (16 IN.) THE REDUCED WIDTH SHALL BE AS WIDE AS THE AVAILABLE SPACE PERMITS, BUT NOT LESS THAN 225mm (9 IN.).
- C. 2.2.4.2.3
THE LADDER RUNGS, CLEATS, OR STEPS SHALL BE SPACED 300mm (12 IN.) ± 13mm (± 0.5 IN.) ON CENTER, SHALL BE PROVIDED TO NOT LESS THAN THE HEIGHT OF ACCESS DOOR SILL, AND SHALL BE DESIGNED TO MINIMIZE SLIPPING (E.G. KNURLING, DIMPLING, COATING WITH SKID-RESISTANT MATERIAL, ETC.).
- D. 2.2.4.2.4
A CLEAR DISTANCE OF NOT LESS THAN 115mm (4.5 IN.) FROM THE CENTERLINE OF THE RUNGS, CLEATS, OR STEPS TO THE NEAREST PERMANENT OBJECT IN BACK OF THE LADDER SHALL BE PROVIDED.
- E. 2.2.4.2.5
SIDE RAILS, IF PROVIDED, SHALL HAVE A CLEAR DISTANCE OF NOT LESS THAN 115mm (4.5 IN.) FROM THEIR CENTERLINE TO THE NEAREST PERMANENT OBJECT.
- F. 2.2.4.2.6
THE LADDER AND ITS ATTACHMENTS SHALL BE CAPABLE OF SUSTAINING A LOAD OF 135kg (300 LBS.).

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ELEVATOR LAYOUT



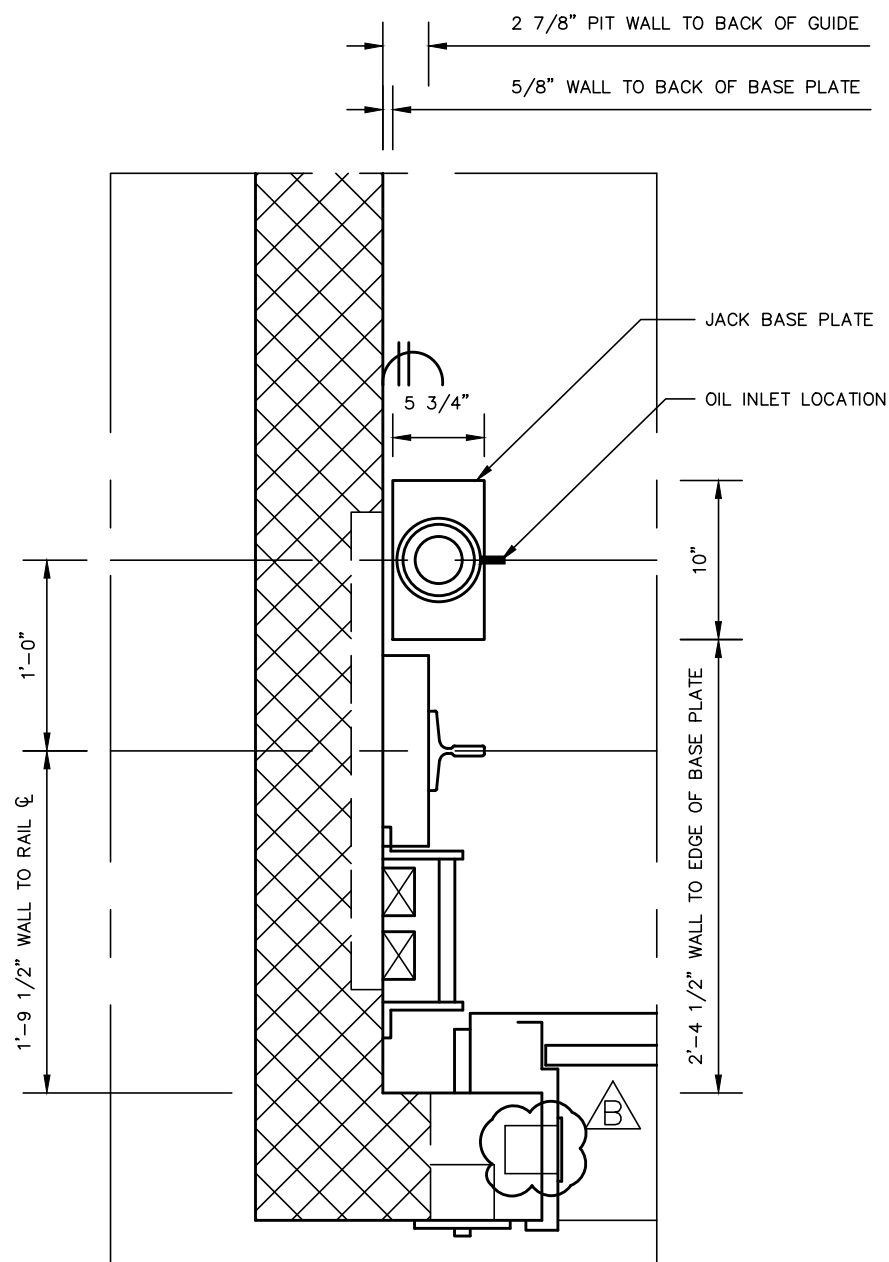
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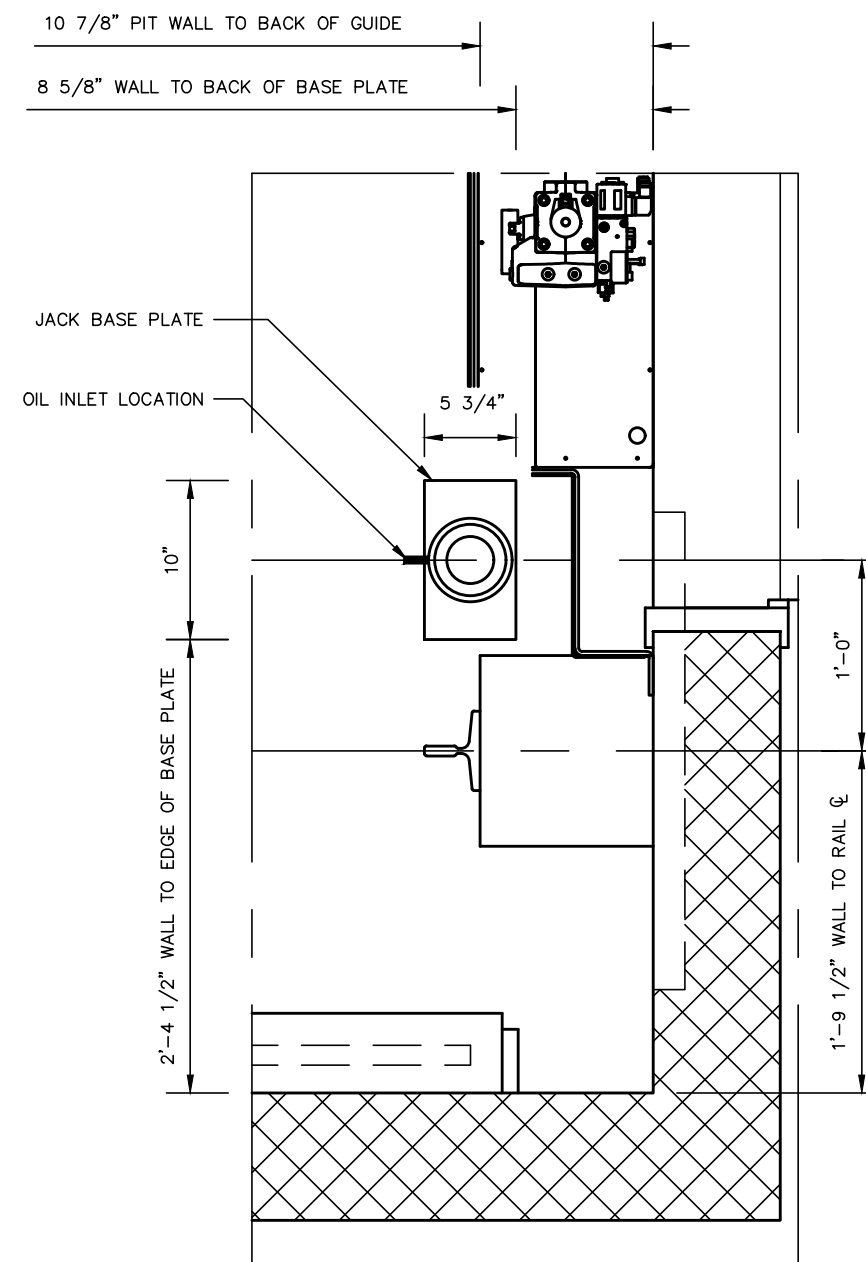
ARCHITECT
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LEFT JACK PLACEMENT DETAIL



RIGHT JACK PLACEMENT DETAIL

FINAL

JACK PLACEMENT DETAIL

**DELAWARE
ELEVATOR**

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PROJECT PRINCE FREDERICK VOLUNTEER
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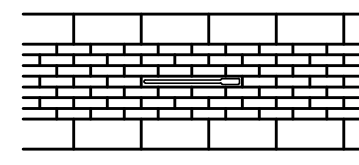
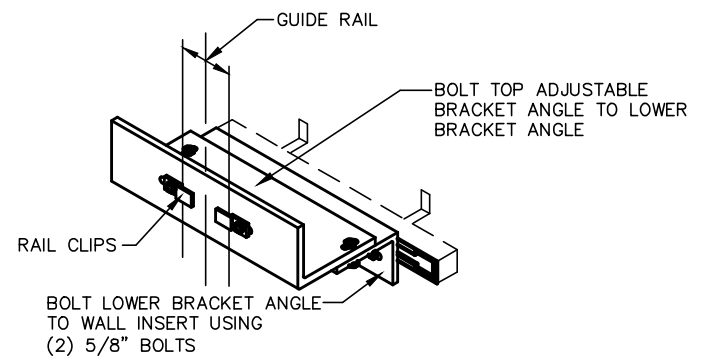
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12TH BRACKET	
11TH BRACKET	
10TH BRACKET	
9TH BRACKET	
8TH BRACKET	
7TH BRACKET	
6TH BRACKET	
5TH BRACKET	
4TH BRACKET	
3RD BRACKET	
13'-0"	2ND BRACKET
12'-0"	1ST BRACKET
3'-0"	PIT FLOOR
DISTANCE	

	6TH RAIL
	5TH RAIL
	4TH RAIL
	3RD RAIL
	2ND RAIL
13'-0"	1ST RAIL
PIT FLOOR	16'-0"
	RAIL LENGTH

RAIL STACKING



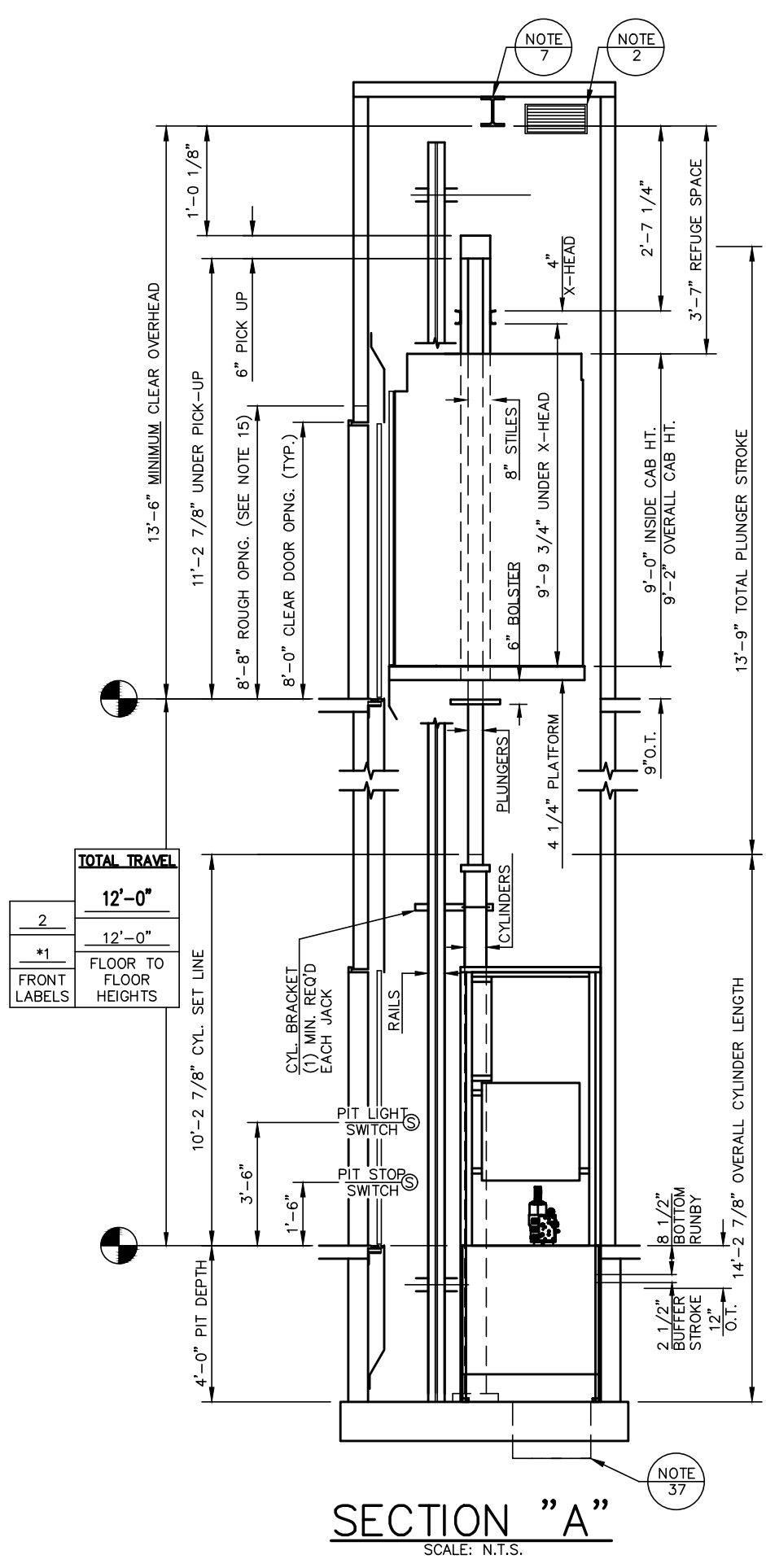
RAIL BRACKET SUPPORT LOCATIONS

DIMENSIONS SHOWN ARE CENTERLINE TO CENTERLINE OF BRACKET SUPPORTS

RAIL BRACKET INSERT INSTALLATION NOTES AND DETAILS

1. INSERTS ARE TO BE INSTALLED HORIZONTALLY AT THE VERTICAL LOCATION INDICATED IN THE RAIL BRACKET SUPPORT LOCATION TABLE.
2. INSERTS ARE TO BE SET FLUSH WITH INSIDE FACE OF HOISTWAY WALL.
3. INSERTS OCCURRING IN BLOCK WALL ARE TO BE SET IN COURSES OF BRICK.
4. INSERTS WILL BE SUPPLIED BY DELAWARE ELEVATOR FOR INSTALLATION BY GENERAL CONTRACTOR.

ARRANGEMENT OF ATTACHING RAIL BRACKET TO MASONRY INSERT IN CMU WALL



- NOTES:
1. BOTH CYLINDERS MUST BE SET EQUALLY SO WHEN FULLY EXTENDED BOTH STOP RINGS IMPACT AT THE SAME TIME.
 2. MAXIMUM VERTICAL RAIL BRACKET AND RAIL BRACKET SUPPORT SPACING IS NOT TO EXCEED 14'-0" UNDER ANY CIRCUMSTANCES.

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ELEVATOR LAYOUT



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PROJECT PRINCE FREDERICK VOLUNTEER FIRE STATION
PRINCE FREDERICK, MD 20678

ARCHITECT BIGNELL WATKINS HASSER ARCHITECTS P.C.
GENERAL CONTRACTOR S E DAVIS CONSTRUCTION, LLC

PROJECT COORDINATOR TOM TAYLOR - EXT 1209

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