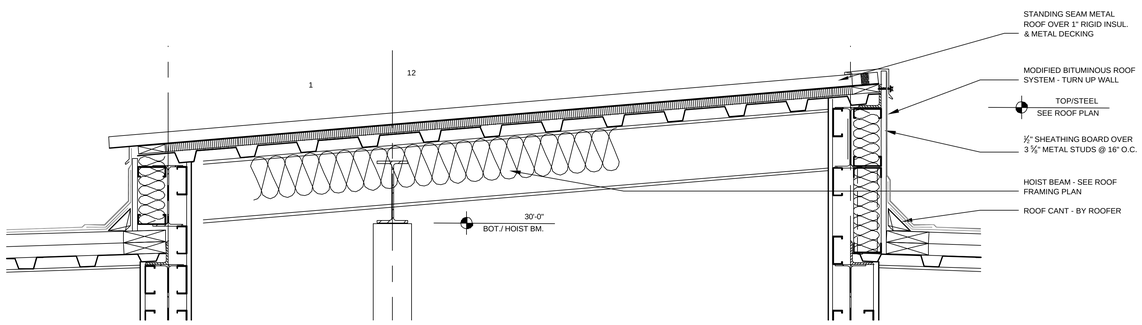
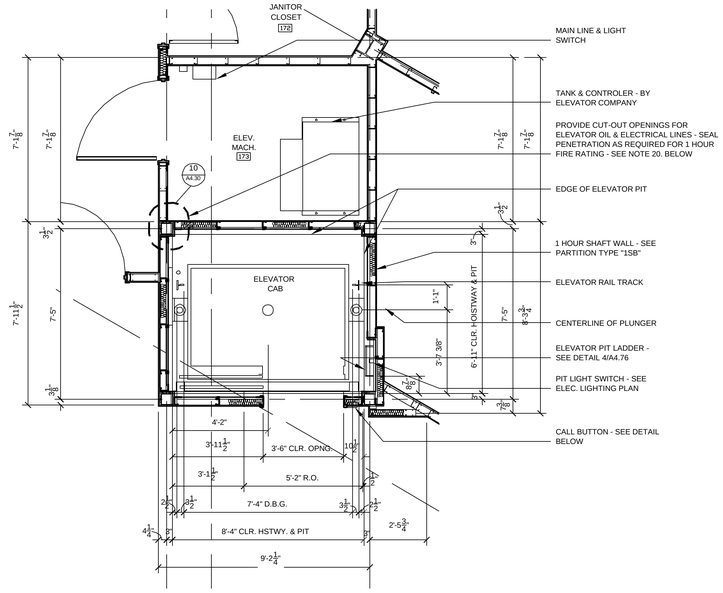
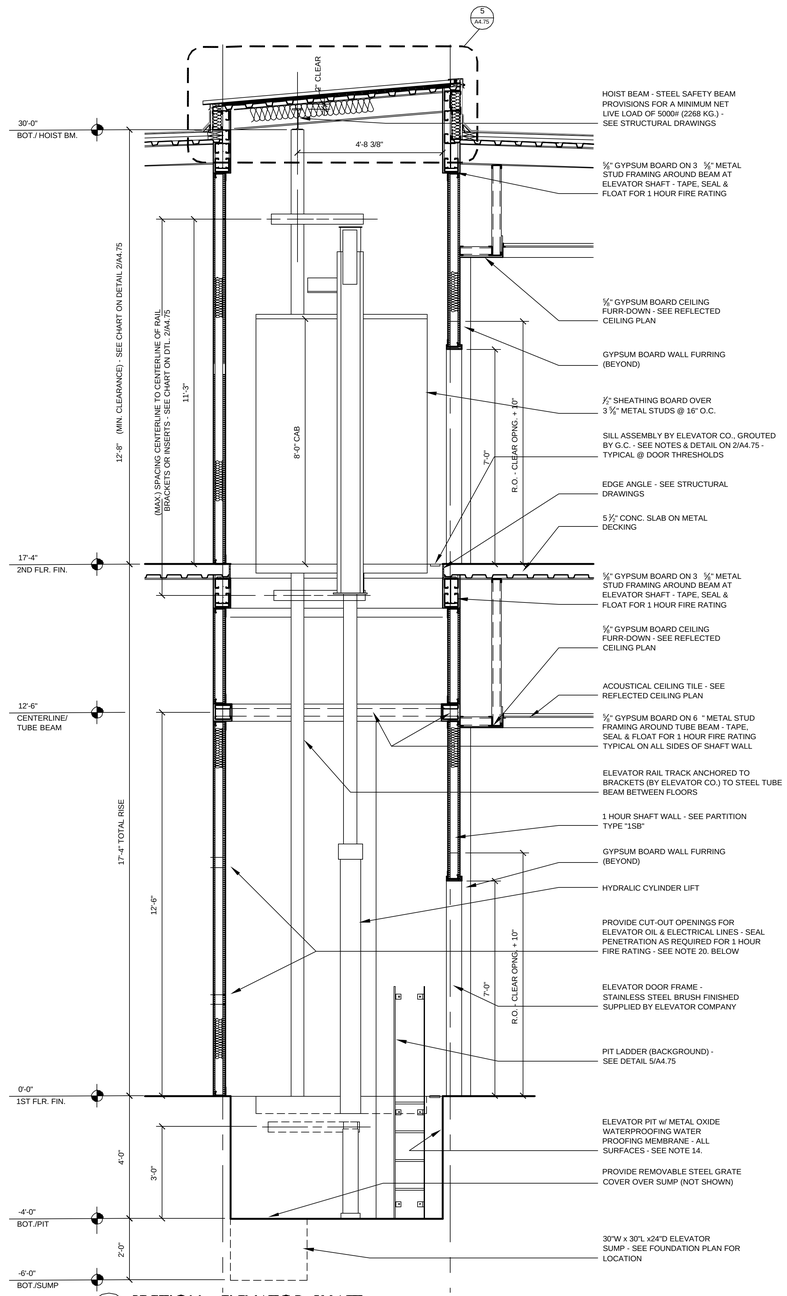


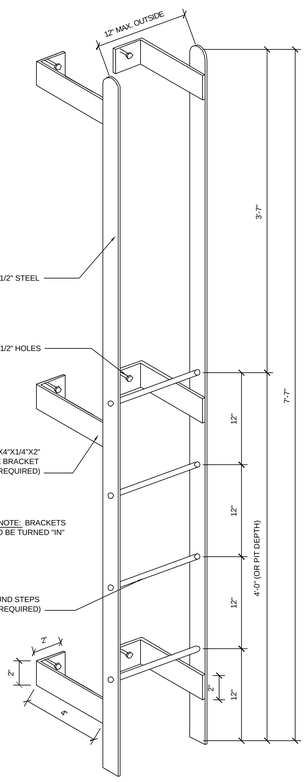
5 A4.75 **ROOF DETAIL - ELEVATOR SHAFT POP-UP**
NTS



1 A5.03 **PARTIAL 1ST FLOOR PLAN - ELEVATOR & MACHINE ROOM**
3/8"=1'-0"



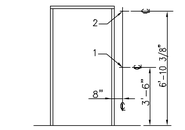
3 A4.75 **SECTION - ELEVATOR SHAFT**
NTS



4 A4.75 **ELEVATOR PIT LADDER DETAIL**
SCALE: 1 1/2" = 1'-0"

PIT/OVERHEAD REQUIREMENTS – 2 STAGE

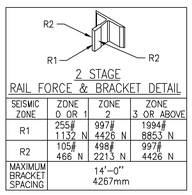
SPEED	PIT	MAX TOTAL RISE PER PIT SHOWN	TOTAL CLEAR HEIGHT (MIN) @ PLUNGER	J	INCLUDING BEAM
100 F.P.M.	4'-0"	23'-6"	13'-0"	12'-8"	J+BH+2 (BH=BEAM HEIGHT) (BEAM NOT BY OTIS)



HALL FIXTURE LOCATION
RIGHT HAND AS SHOWN

1. HALL BUTTON AT ALL FLOORS
2. OPTIONAL HALL POSITION INDICATOR OR HALL LANTERN (TYPICAL LOCATION WITH 7'-0" / 2134 OPENING).

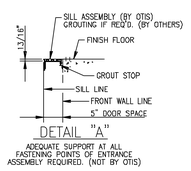
MACHINE ROOM IS LOCATED ADJACENT TO HOISTWAY @ REAR



2 STAGE
RAIL FORCE & BRACKET DETAIL

SEISMIC ZONE	ZONE 0 OR 1	ZONE 2	ZONE 3 OR ABOVE
R1	255# 1132 N	997# 4426 N	1994# 8853 N
R2	105# 466 N	498# 2213 N	997# 4426 N
MAXIMUM BRACKET SPACING	14'-0" 4267mm		

MINIMUM CLEAR MACHINE ROOM DIMENSIONS:
5'-9" / 1753 X 7'-4" / 2236
DOOR SIZE IS 3'-0" / 914 X 7'-0" / 2134



DETAIL "A"
ADEQUATE SUPPORT AT ALL FASTENING POINTS OF ENTRANCE ASSEMBLY REQUIRED. (NOT BY OTIS)

NOTE A:
NOTE USED

NOTE B:
NOTE USED

NOTE C:
SUMP OR DRAIN REQUIRED IN PIT (NOT BY OTIS). LOCATION TO BE COORDINATED WITH OTIS TO AVOID ELEVATOR COMPONENTS AND ACCESS AREA.

NOTE D:
NOT USED

NOTE E:
HOISTWAY FACIA IS NOT SELF-SUPPORTING FOR LONG, CONTINUOUS RUNS VOID OF ENTRANCES. ADEQUATE SUPPORT FOR THE FACIA MUST BE PROVIDED BY OTHERS.

NOTE F:
MACHINE ROOM SIZE MAY VARY WITH LOCAL CODE. CONSULT YOUR OTIS REPRESENTATIVE.

NOTE G:
IN AREAS REQUIRING COMPLIANCE TO ASME A17.1a–2002 INCREASE HOISTWAY & PIT WIDTH BY 2.5" EACH SIDE (5" OVERALL) OR PROVIDE CUTOUT FOR PIT LADDER: (CUTOUT = 26"W x 2.5"D x (PIT DEPTH + 48")H). CONSULT YOUR LOCAL OTIS REPRESENTATIVE TO CONFIRM YOUR SPECIFIC REQUIREMENTS AND LADDER LOCATION.

NOTES:

1. MACHINE ROOM SIZES ARE TYPICAL WORST CASE SIZES AND REFLECT THE LARGEST TANK.
2. ALL MACHINE ROOM SIZES AND CLEARANCES ARE ANSI & NEC COMPLIANT. CONSULT YOUR LOCAL CODE FOR GREATER CLEARANCES REQUIRED IN YOUR AREA.
3. IT IS RECOMMENDED THAT A MINIMUM CLEARANCE OF 4" BE MAINTAINED BETWEEN THE TANK AND THE MACHINE ROOM WALL.
4. THE PREFERRED MACHINE ROOM LOCATION IS ADJACENT TO THE HOISTWAY AT THE LOWEST LANDING, BUT REMOTE MACHINE ROOMS ARE AVAILABLE IF NECESSARY.

LVM 3500T
2 STAGE HYDRAULIC
Passenger Model
3500 lbs.@ 100 F.P.M.
1588 kg @ 0.50 m/s
Simplex Collective

IMPORTANT NOTES
GENERAL REQUIREMENTS BY OTHERS

1. PROPERLY FRAMED AND ENCLOSED LEGAL HOISTWAY INCLUDING VENTING AS REQUIRED BY THE GOVERNING CODE AND SAFETY BEAM AS SHOWN.
2. ADEQUATE SUPPORT FOR GUIDE RAIL FASTENINGS NOT TO EXCEED THE VERTICAL SPACING SHOWN ON THE RAIL BRACKET CHART. SEPARATOR BEAMS WHERE REQUIRED.
3. PROVISIONS FOR GUARDING AND PROTECTING THE HOISTWAY DURING CONSTRUCTION TO BE ERECTED, MAINTAINED, AND REMOVED BY OTHERS.
4. ALL CUTTING OR PATCHING TO ACCOMMODATE ELEVATOR INSTALLATION.
5. HOISTWAY WALLS ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIRED FIRE RATING INCLUDING WHERE PENETRATED BY ELEVATOR FIXTURE BOXES, AND TO INCLUDE ADEQUATE FASTENINGS TO HOISTWAY ASSEMBLIES. A HORIZONTAL SUPPORT MUST BE PROVIDED 12" (305mm) ABOVE THE CLEAR OPENING AT EACH LANDING TO SUPPORT THE DOOR FRAME ASSEMBLY, THE ENTRANCE WALL AND THE FINISHED FLOOR MUST NOT BE CONSTRUCTED UNTIL THE FRAMES AND SILLS ARE SET.
   NOT USED

   MACHINE ROOM TEMPARATURE MAINTAINED BETWEEN 60° & 100° F (15.5° & 37.8° C). RELATIVE HUMIDITY NOT TO EXCEED 95% NON-CONDESING. FOR HEATING, VENTILATION, AND AIR CONDITIONING REQUIREMENTS OTHER THAN THOSE SHOWN ABOVE REFER TO OTIS CONFIRMATION OF POWER SUPPLY FORM.
6. A SEPARATE BRANCH CIRCUIT FOR SUITABLE LIGHT FIXTURE(S) AND CONVENIENCE OUTLETS, WITH G.F.I., IN THE MACHINE ROOM WITH THE LIGHT SWITCH LOCATED ADJACENT TO THE LOCK JAMB SIDE OF THE MACHINE ROOM DOOR.
7. FOR EACH ELEVATOR, A THREE PHASE ELECTRICAL FEEDER SYSTEM WITH A SEPARATE EQUIPMENT GROUNDING CONDUCTOR AND A SINGLE PHASE 120 VOLT LIGHTING SUPPLY, EACH WITH A FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER, LOCATED IN THE MACHINE ROOM AND WIRED TO EACH CONTROLLER.
8. IN THE PIT, A SEPARATE BRANCH CIRCUIT FOR CONVENIENCE G.F.C.I. OUTLET & LIGHT FIXTURE WITH LIGHT SWITCH ADJACENT TO THE PIT LADDER.
9. ALL ELECTRIC POWER FOR TOOLS, LIGHT, HOIST, ETC., DURING ERECTION AS WELL AS ELECTRIC CURRENT FOR STARTING AND ADJUSTING THE ELEVATOR.
10. DRY PIT REINFORCED TO SUSTAIN VERTICAL FORCES OF UP TO:
    2 STAGE: 21,360/97 LBS/KN AT EACH BUFFER AND
    4550/21 LBS/KN AT THE CYLINDER HEAD.

    THE ACCUMULATION OF WATER MUST BE PREVENTED.
11. A FIXED VERTICAL STEEL LADDER TO PIT EXTENDING 4'-0" (1219mm) ABOVE THE SILL OF THE BOTTOM ENTRANCE AS LOCATED IN THE PLAN VIEW. LADDER WIDTH AND PROJECTION FROM WALL PER LOCAL CODE. IF PIT DEPTH IS GREATER THAN 9'-10" (3000mm) (13'-9" (4191mm) WITH NO FLOOR BELOW BOTTOM LANDING), A PIT ACCESS DOOR IS REQUIRED.
12. PIT FLOOR BENEATH CYLINDERS AND BUFFER TO BE FLAT AND LEVEL WITHIN 1/8" (3mm) FULL WIDTH OF HOISTWAY.
13. ELEVATOR CAB FLOORING MUST NOT EXCEED A THICKNESS OF 5/16" (8mm).
14. ONE (1) DEDICATED OUTSIDE TELEPHONE LINE TO THE ELEVATOR MACHINE ROOM MUST BE FURNISHED. TELEPHONE CONNECTIONS TO EACH CONTROLLER. TELEPHONE INSTRUMENT BY OTHERS.
15. ALL 125 VOLT, 15 OR 20 AMP, SINGLE PHASE DUPLEX RECEPTACLES INSTALLED IN PITS, MACHINE ROOMS OR MACHINERY SPACES, SHALL BE OF THE GROUND-FAULT-CIRCUIT-INTERRUPTER TYPE.
16. SMOKE DETECTORS, LOCATED AS REQUIRED, WITH WIRING FROM THE SENSING DEVICES TO A CONTROLLER DESIGNATED BY OTIS. FOR EACH GROUP OF ELEVATORS, PROVIDE A NORMALLY CLOSED CONTACT REPRESENTING THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING. FOR EACH GROUP OF ELEVATORS, PROVIDE A NORMALLY CLOSED CONTACT REPRESENTING ALL SMOKE DETECTORS LOCATED IN LOBBIES, HOISTWAYS, OR MACHINE ROOMS, BUT NOT THE SMOKE DETECTOR AT THE DESIGNATED RETURN LANDING (SEE ABOVE) OR THE SMOKE DETECTORS AS DESCRIBED IN A & B BELOW:
    A) IF A SMOKE DETECTOR IS LOCATED IN THE HOISTWAY AT OR BELOW THE LOWER OF THE TWO RECALL LANDINGS, IT SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR LOCATED IN THE LOBBY AT THE LOWER OF THE TWO RECALL LANDINGS.
    B) IF MACHINE ROOMS ARE LOCATED AT THE DESIGNATED RETURN LANDING, THE SMOKE DETECTOR LOCATED THEREIN SHALL BE WIRED TO ACTIVATE THE SAME NORMALLY CLOSED CONTACT AS THE SMOKE DETECTOR AT THE DESIGNATED LANDING. FOR A SINGLE UNIT, OR GROUP OF ELEVATORS HAVING ONE COMMON MACHINE ROOM AND ONE COMMON HOISTWAY, PROVIDE ONE ADDITIONAL NORMALLY CLOSED CONTACT REPRESENTING ALL MACHINE ROOM AND HOISTWAY SMOKE DETECTORS. IF THE GROUP CONTAINS MORE THAN ONE HOISTWAY, AND HOISTWAY SMOKE DETECTORS ARE INSTALLED, OR IF THE GROUP HAS MORE THAN ONE MACHINE ROOM, PROVIDE ONE ADDITIONAL NORMALLY CLOSED CONTACT FOR EACH ELEVATOR. THE CONTACT IS TO REPRESENT THE SMOKE DETECTOR IN THE MACHINE ROOM FOR THAT PARTICULAR ELEVATOR, AND ANY SMOKE DETECTORS IN THE HOISTWAY CONTAINING THAT PARTICULAR ELEVATOR.
17. IF SPRINKLERS ARE INSTALLED IN THE HOISTWAY, MACHINE ROOM, OR MACHINERY SPACES, THE LOCAL CODE MAY REQUIRE A MEANS TO AUTOMATICALLY DISCONNECT THE MAIN POWER SUPPLY OF THE AFFECTED ELEVATOR PRIOR TO THE APPLICATION OF WATER (CONFIRM WITH THE LOCAL CODE OFFICIAL). SMOKE DETECTORS SHALL NOT BE USED TO ACTIVATE SPRINKLERS IN HOISTWAYS, MACHINE ROOMS OR MACHINERY SPACES OR TO DISCONNECT THE MAIN LINE POWER SUPPLY.
18. TWO (2) 6" X 6" (152mm x 152mm) CUTOUTS ARE REQUIRED (NOT BY OTIS). THE ACTUAL LOCATION OF THE CUTOUTS FOR THE TO AND FROM OIL PIPE AND ELECTRICAL TROUGH WILL VARY DEPENDENT UPON MACHINE ROOM LOCATION AND CONFIGURATION.

    HYDRAULIC PIPE TO CONFORM TO ASTM A106, GRADE B, SEAMLESS.
    DIMENSIONAL DATA ON LAYOUT COMPLIES WITH ASME A17.1 AND/OR LOCAL CODE.

5 A4.75 **ELEVATOR NOTES & DETAILS**
NTS

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RCLC
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Drawn By: VFA & JMS
Checked By: RLE

Revisions:

ST. TAMMANY PARISH SHERIFF'S OFFICE
BROWNSWITCH ROAD
SLIDELL, LOUISIANA

CONSTRUCTION DOCUMENTS

ELEVATOR DETAILS

Sheet Number:
A4.75

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