

The Following Items Must Be Considered By The Purchaser Prior To Approving This Layout

All material (unless otherwise noted) is in accordance with ASME A17.1
The Purchaser Must Provide The Following:
 In accordance with ASME A17.1 Code Requirements or Local Code Requirements whichever are more stringent.

HOISTWAY AND PIT

1. A clear hoistway of the dimensions shown, plumb to within 1" total. Hoistway shown is minimum. Any out-of-plumb condition must not encroach on hoistway size envelope from top to bottom.
2. Venting of hoistway as required by code.
3. A dry pit, reinforced to sustain vertical loads as shown.
4. A 30" square hole is to be left in the pit floor, if required for jack installation, and is to be grouted in by others after jack unit is installed.
5. A pit ladder for each elevator of non-combustible material, constructed and installed in accordance with code, and extending from pit floor to 42" above sill of lowest hoistway door.
6. Adequate supports for guide rail brackets, to support horizontal loads as shown. Support locations must not exceed spacing as required by code, and as shown. When maximum spacing is exceeded, rail reinforcement, or additional supports must be provided at purchasers expense.
7. Guide rail support locations must be steel, brick, concrete, or filled concrete block. Inserts, if used, are supplied and installed by others, in locations shown, as walls are erected. If rail brackets are attached to steel beams, fireproofing is to be applied AFTER rail brackets are installed.
8. A sump pump or drain must be installed in the hoistway & pit. Per ANSI/ASME A17.1, Rule 106.1b, 3-4.
9. Projections or recesses in the hoistway of 2" or more, on sides not used for loading or unloading, shall be beveled at an angle not less than 75 from the horizontal.
10. A hoist beam, hook, or eyebolt shall be furnished at the top of hoistway, located on centerline of car and guides — designed for load capacity of 3400# minimum.
11. Entrance walls accepting passenger type entrances are to be erected (or rough opening as shown filled in) after door frames and sills are installed.
12. A suitable sill support and recess as shown, full width of the hoistway, grouted by others after door sills are installed.
13. Door frames and sills for freight type elevator doors, set square with hoistway and plumb above each other. Door frames to be of sufficient strength to carry loads imposed, and side jombs shall extend to beam above with 2" min. return in hoistway on each side (see door drawings).
14. Required sleeves in hoistway wall, or any trenching and filling, for oil line and wiring duct for each elevator, as shown.
15. Any cutting and patching of building construction required to install signal fixtures, or other elevator apparatus, and any repairs, grouting, patching, or painting made necessary by same.
16. Barricades as may be required during construction.

MACHINE ROOM

17. A machine room properly lighted and ventilated per code requirements with temperature maintained between 65° - 95°. Door of size to permit access for hydraulic machine, to be self closing and locking, but openable from inside without key.

ELECTRICAL

All electrical in accordance with ANSI and NEC.

18. A fused disconnect switch for each elevator, of ample capacity, with wiring to the elevator motor starter control. Disconnecting means shall disconnect the normal power supply as well as emergency supply, when provided.
19. Light and switch in elevator machine room, with switch located adjacent to access door. Convenience outlet in machine room.
20. Light, switch and convenience outlet in elevator pit, light switch accessible from lower landing opening. Install light to clear elevator car.
21. Suitable 110V service in the hoistway, midway of travel (see layout) or connected to terminals in elevator controller for car light service (elevator contractors option).
22. Heat, and product of combustion sensors located in each elevator lobby with necessary wiring to elevator control panel, when fire service is specified.
23. If sprinklers are present in the machine room or hoistway, a means shall be provided to automatically disconnect the main line power supply prior to the application of water.

By Purchaser (continued):

4. Telephone instrument in elevator car, and wiring from building source to elevator control panel.
5. Furnishing of any special intercom, paging, or television systems, including wiring from building source to elevator control panel.
5. If duplex installation, provide additional 110V power source for hall calls and computer.
7. If elevator is equipped with a battery emergency lowering unit, an auxiliary contact is required on main power disconnect in elevator machine room. These contacts (supplied by others) shall be U.L. approved and located in disconnect.

GENERAL

3. Necessary power for installing, erecting, and testing, without charge.
3. Any features or equipment required, but not specifically specified as being furnished by elevator contractor.
3. A safe and dry space to store elevator equipment and tools before and during construction.

TECHNICAL DATA

CAR NO.	-
POWER SUPPLY	208V-3PH-60HZ ← CONFIRM
POWER UNIT	SUBMERSIBLE
PUMP	210-43
MOTOR H.P.	25 HP
FL./LR AMPS	82FLA / 411LRA
WORKING PRESSURE	301 PSI
PLUNGER O.D.	4.980"
PLUNGER WALL	.365"
PLUNGER LENGTH (3-PC.)	42'-11 3/4"
CYLINDER O.D.	8.625"
CYLINDER WALL	.322"
CYLINDER LENGTH (3-PC.)	43'-4 1/4"
PLUNGER-CYL. CLEARANCE	1/2"
CYL. COUPLING O.D.	9.625"
CAR WEIGHT	2523#
GROSS LOAD	MCS"x12#/ft
STILE SIZE	Y-DELTA
TYPE OF START	
CONTROLLER (V.C.)	MICROPROCESSOR

HORIZONTAL GUIDE RAIL REACTIONS

	Rx	Ry	
NORMAL (RUNNING)	136#	61#	
LOADING (FREIGHT)	N/A	N/A	
SEISMIC (ZONE 2)	709#	354#	

VERTICAL REACTIONS

@ EACH BUFFER (2 loc.)	6471# ea.
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5-17-05	ewd		ORIGINAL
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CAR NO.	-
CLASSIFICATION	PASSENGER
TYPE	STD. IN-GROUND
CAPACITY (LOADING)	2000#
CAR SPEED @ FULL LOAD	108 UP / 120 DOWN
TRAVEL (FUTURE)	25'-8" (15'-0") ← CONFIRM
NO. LANDINGS	3 (4)
NO. OF OPENINGS	IT (4)
FRONT OPENINGS @	B-LL-G
FUTURE OPENINGS @	2nd
DOOR TYPE	SIDE-SLIDE
DOOR SIZE	3'-0"W x 7'-0"H
PLATFORM SIZE	6'-0"W x 5'-1"D
OPERATOR EQUIPMENT	GAL MODL
DOOR PROTECTION	
GUIDE RAILS	15#/ft
GUIDE SHOES	SWIVEL/NYLON
OPERATION	SIMPLEX-SEL./COL.
FIRE SERVICE	PHASE I & II (ME)
LOBBY/ALT. FLOOR	"G" / "LL" ← CONFIRM
SIGNALS	CPI & GONG/CDI & GONG/IND. SERV./NUDGING/T&B ACCESS/ FUTURE FLOOR Q 2nd/CAR & HALL LOCKOUTS @ EACH

Pine State Elevator
Portland, Maine

CANTON ELEVATOR
INCORPORATED
ELEVATOR LAYOUT DRAWING
FOR HYDRAULIC ELEVATORS

PROJECT

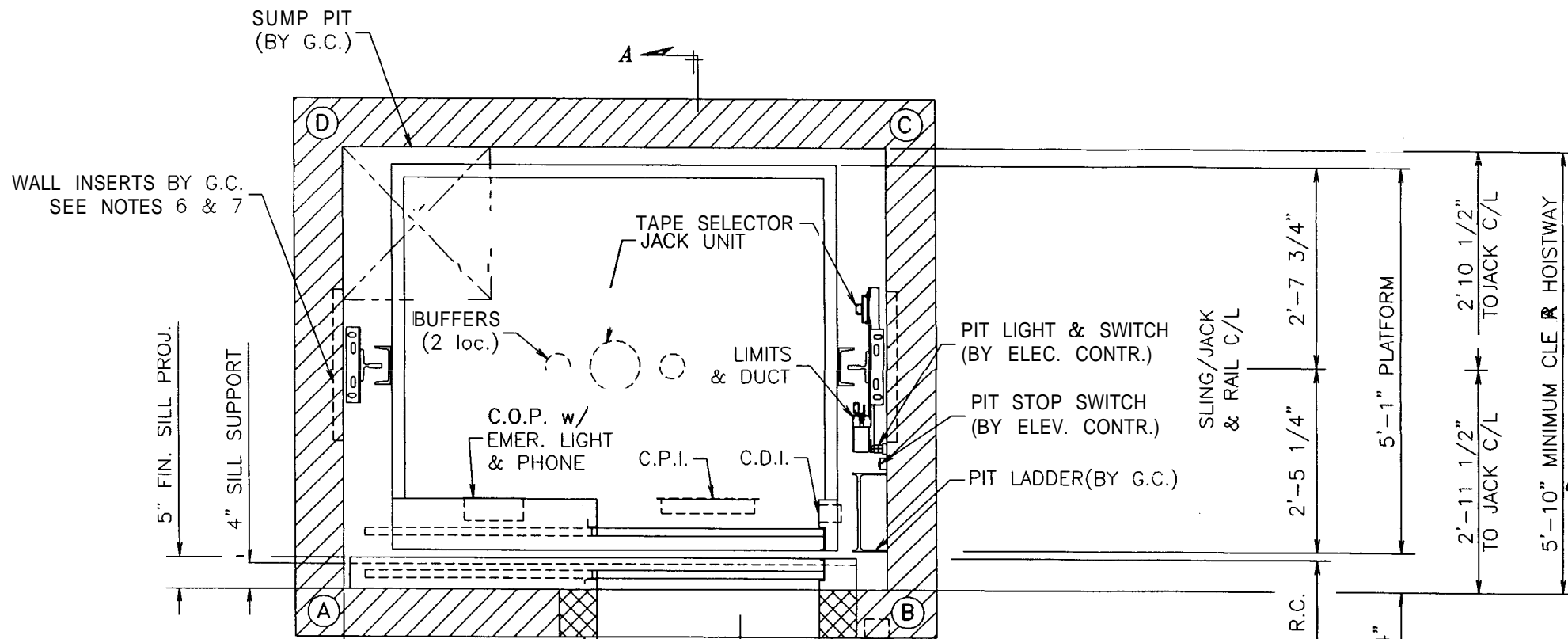
ROOT CELLAR
PORTLAND, ME

CONTRACT No.

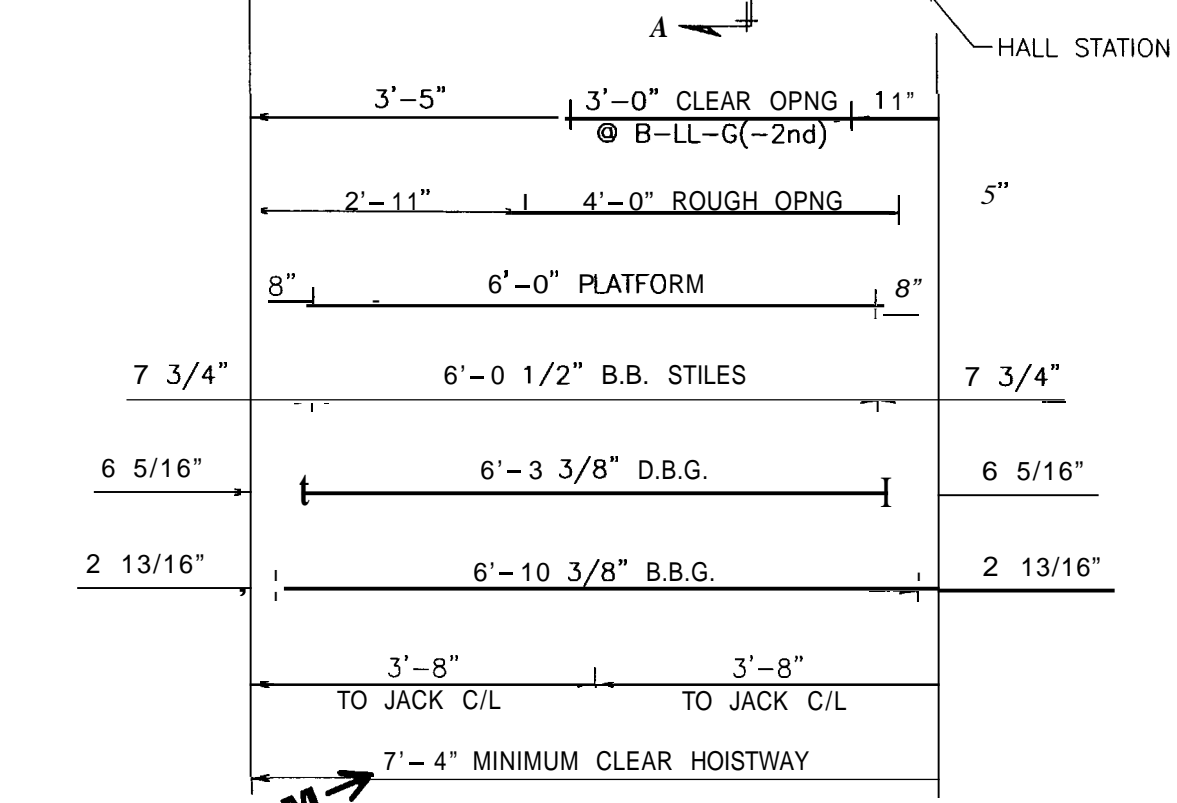
11064

SHEET No.

1 OF 4



CONFIRM



Plan View @ "B"
SCALE : NONE
(DEPICTING FEATURES AT VARIOUS LEVELS)

PIPE RUPTURE VALVE IN PIT

IF THE JOB SITE IS IN A SEISMIC RISK ZONE 2 OR GREATER A PIPE RUPTURE VALVE IS REQUIRED AT THE JACK UNIT IN ACCORDANCE WITH ASME/ANSI A17.1.

A SUMP OR DRAIN IS REQUIRED IN THE PIT WITH PROPER DISCHARGE AS PER ASME/ANSI A17.1.

AN AREA OF 5.49 SQUARE FEET (NOT LESS THAN 24 INCHES ON ANY SIDE) IS TO BE LOCATED ON THE CAR TOP WHERE 43 INCHES MINIMUM OF VERTICAL CLEARANCE EXIST WITH THE CAR AT ITS MAXIMUM LIMIT OF TRAVEL. THIS REFUGE SPACE IS TO BE MARKED ON THE CAR TOP USING A CONTRASTING COLOR. (SEE ASME/ANSI A17.1.)

THE RAILS FOR THIS JOB ARE APPROXIMATELY 16'-0" LONG. MAKE SURE THAT THIS LENGTH COMPONENT CAN BE MOVED THROUGH THE JOB SITE PROJECT

PROJECT ROOT CELLAR

PORTLAND, ME

DATE	BY	CHKD	DESCRIPTION
5-16-05	ewd		ORIGINAL

CONTRACT No. 11064 SHEET No. 2 OF 4

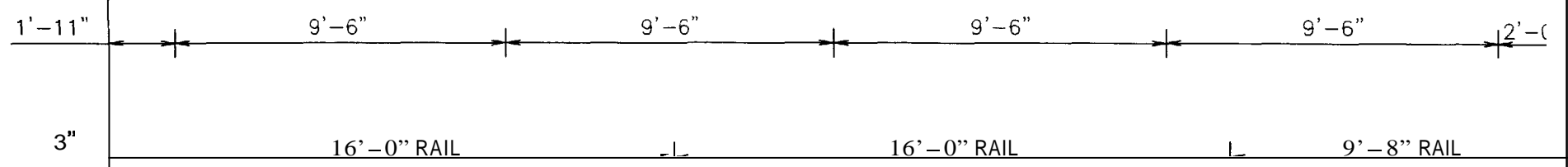
CONFIRM

56'-11" CLEAR HOISTWAY (INCL. FUTURE TRAVEL)

15'-0" FUTURE TRAVEL

41'-11" EXISTING CLEAR HOISTWAY HEIGHT

CONFIRM →



3"

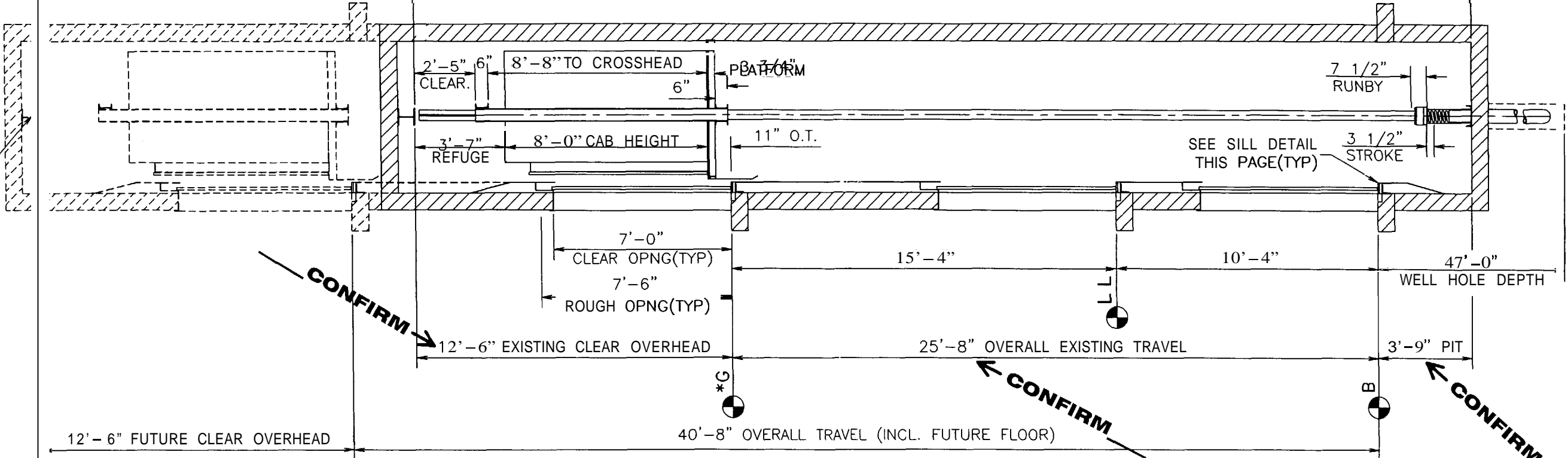
16'-0" RAIL

16'-0" RAIL

9'-8" RAIL

BRACKET SPACING-G.C. IS TO PROVIDE MASONRY WALL INSERTS AT LOCATIONS SHOWN FOR THE PURPOSE OF ATTACHING ELEVATOR GUIDE RAIL BRACKETS IN ACCORDANCE WITH NOTES 6 & 7.

HOISTWAY BY G.C. - SEE NOTE 10



CONFIRM →

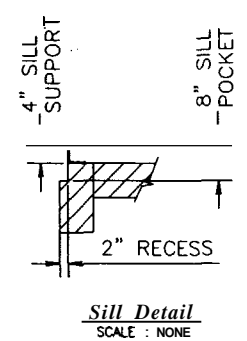
CONFIRM ←

CONFIRM ←

12'-6" FUTURE CLEAR OVERHEAD

40'-8" OVERALL TRAVEL (INCL. FUTURE FLOOR)

Hoistway Section "A - A"
SCALE : NONE



DATE	BY	CHKD	DESCRIPTION
5-16-05	ewd		ORIGINAL

PROJECT	
ROOT CELLAR PORTLAND, ME	
CONTRACT No.	SHEET No.
11064	3 OF 4