ATTENTION FRAMERS:

This home is receiving a home elevator which will require structural support for the elevator rail system and loads built into the framing of this elevator shaft. Attached are two detailed drawings showing the layout and material needed to support this load.

For this project the Rail Support Wall is located on the:

☐ Right Hand Wall  ☐ Left Hand Wall  ☐ Rear Wall
(Always orient the rail wall from the lowest level served by elevator)

If you have any questions or comments,

you can call me, ___________________  at _______________

Thank you.

I have stapled this document to the wall that will require the structural support.
Each vertical support stack shall have:
- (2) 2" x 12"
- (2) 2" x 4"
- (1) piece 1/2" plywood between 2 x 12's

Note: If rear wall rail or front & rear wall applications - supports to be measured from center line of shaft

(4) 2 x 4 x HEIGHT OF HOISTWAY
(4) 2 x 12 x HEIGHT OF HOISTWAY

CENTERLINE OF RAIL SUPPORTS MUST BE MIN. 28" OFF FRONT WALL
FRONT WALL 2" x 4" CONSTRUCTION
MAXIMUM TRIM THICKNESS 1/4"

TO ENSURE ADEQUATE SUPPORT IN WALL FOR GUIDE RAIL FASTENINGS, VERTICAL SPANS OF 2 x 12's SHALL NOT EXCEED 12' - 0" INTERVALS WITHOUT INTERMEDIATE SUPPORT

ELEVATOR SHAFT STRUCTURAL REQUIREMENTS
HOR03
October 09
Elevating your standard of living

HOISTWAY / PIT DETAILS

12" MAXIMUM FOR VERTICAL SUPPORTS WITHOUT INTERMEDIATE SUPPORT

12' - 0" MAXIMUM FOR VERTICAL SUPPORTS WITHOUT INTERMEDIATE SUPPORT

PLYWOOD (PREFERRED) OR DRYWALL

VERTICAL 2 x 12's AND 2 x 4's BY GENERAL CONTRACTOR

12' - 0" MAXIMUM FOR VERTICAL SUPPORTS WITHOUT INTERMEDIATE SUPPORT

8" PIT DEPTH MINIMUM

REINFORCED CONCRETE SLAB REQUIRED TO WITHSTAND THE FOLLOWING IMPACT LOADS - LUXURY LIFT TRACTION UNIT - 5100 LBS. LUXURY LIFT HYDRAULIC - 3900 LBS.

12" FROM CLEAR INSIDE TO FINISH DOOR JAMB

LANDING DOOR (BY GENERAL CONTRACTOR)

LANDING DOOR (BY GENERAL CONTRACTOR)

TOTAL TRAVEL

OVERHEAD CLEARANCE REQUIREMENTS

HORIZON TRACTION
102" MIN. FOR Std. CAB HEIGHT
114" MIN. FOR 8'-0" CAB HEIGHT

LUXURY LIFT HYDRAULIC
96" MIN. FOR 6'-8" CAB HEIGHT
108" MIN. FOR 8'-0" CAB HEIGHT

TOP FLOOR LANDING

TRIM ON BACKSIDE OF DOOR NOT TO EXCEED 1/4"

FRONT WALL OF SHAFT (ALWAYS USE 2" x 4" CONSTRUCTION ON FRONT WALL OF SHAFT TO AVOID 3" x 5" CODE VIOLATION - SEE 3 X 5 RULE ON PAGE 4)

BOTTOM FLOOR LANDING

NOTE:
ALL WORK ABOVE TO BE BY GENERAL CONTRACTOR

ELEVATOR PIT

RESIDENTIAL ELEVATORS
Elevating your standard of living

HOISTWAY / PIT DETAILS

HOR02

March 11
Home Elevator 3” x 5” Rule

Residential Elevators manufactures and installs a fully code compliant elevator per the ASME ANSI A17.1 National Safety Code for Elevators - Section 5.3 Private Residence Elevators.

Rule 5.3.1.4.2 (aka 3” x 5” Rule) of the above referenced code states: Clearance Between Hoistway Door(s) or Gate(s) and Landing Sill(s) and Car Door(s) or Gate(s). The clearance between the hoistway doors or gates and the hoistway edge of the landing sill shall not exceed 3 inches (76 mm). The distance between the hoistway face of the landing door or gate and the car door or gate shall not exceed 5 inches (127 mm).

Note: Concrete block / masonry shafts and some commercial metal door frames can often create 3” X 5” Rule violations.

The 3” x 5” Rule is a code requirement. Residential Elevators takes pride in ensuring safety in the use of their equipment and as a policy wants to make sure all Builders, Architects, Developers, Owners / Users are aware of and adhere to this National Code.

This is a safety issue.