

HOME SQUARE FOOTAGE

MAIN FLOOR = 1,413 SQ. FT. UPPER FLOOR = 1,906 SQ. FT

TOTAL = 3,319 SQ. FT. GARAGE/SHOP = 535 SQ. FT.

REQUIRED CREDITS Very Small Additions (additions 150-500 sf) additions ≥500-1500 sf) Small Dwelling dwellings <1500 and <301 sf of glazing) dwellings and additions ≥1500-5000 sf, sm dwellings with >300 sf of glazing) _arge Dwelling (dwelling >5000 sf) 1 Comb. Heating min. NAECA ② 2 | Heat pump (w/ supplemental elec. resist. or gas heat) (3) 1.5. 3 Elec. Res. Heat only forced-air or zonal) 4 Heat pump (w/o supplemental heat) (18) Mini-Split (largest zone) OR dwelling not exceeding 2kW installed heating capacity 8 AHRI 550//590 Air-to-water heat pump with Chosen with Heat ® COP 3.2+ @ 47° F. 1.1 Glazing: U-0.22 0.5 3.9 Gas-fired HP w/ ANSI Z21.40.2 & Z21.40.4 or CSA w/ UEF 1.15+ Floor: R-38 Reduce the Total (1.0) target UA by 15% Slab: R-10 edge + entire slab Glazing: U-0.18 Celling: (flat/rafter/vault): R-60 (adv.) 11 Smart thermostat (energy star certified). Chosen with 3.1 or 3.2 ONLY Walls: R-21 + R-12ci Reduce the Total 1.5 Floor: R-38 target UA by 22.5% Basement Wall: R-21 + R 12ci 5.1 Drain water HRU captures only shower waste water heat 12 Slab: R-10 edge + entire slab Ceiling: (flat/rafler/vault): R-60 (adv.) Walls: R-21 + R-16ci Reduce the Total 2.5 Floor: R-48 target UA by 30% Basement Wall: R-21 + R-16ci Slab: R-20 edge + entire slab 5.3 Energy Star rated gas/propane water heater (UEF 0.80+) (1) ir Leakage Control & fficient Ventilation 5.5 Gas-fired HP water heater (Tier II NEEA) Reduce air leakage to 2 ACH AND whole house ventialtion (M1505.4) w/ HRV min. 0.65 @ 5.6 Electric heat pump water heater meeting Tier III NEEA standards. Reduce air leakage to 1.5 ACH AND whole house Iventialtion (M1505.4) w/ HRV min. 0.75 @ Reduce air leakage to 0.6 ACH AND whole house ventialtion (M1505.4)w/ HRV min. 0.80 @ 5.8 Credit selection 3.10 earns this. (See R403.7, R403.5.7 & Manu. Sizing) ALL HVAC/Duct equip located in conditioned space

1 Electric. Resist, hydronic, and ductless HP heating are | 0.5

NOT permitted with this option.

Dir. Comb. Heating <80% AFUE not permitted

Single Family - New Construction & Additions 1 Min. 95% AFUE fuel-fired furnace Min. 90% AFUE fuel-fired boiler Supplemental Heat from Min. 95% AFUE fuel-fired furnace Heating Sys. Opt. (2) Min. 90% AFUE fuel-fired boiler .3 Air-source centrally ducted heat pump (min. | Chosen with Hea

Sys. 4 or 5 only

0.5

gh Efficiency HVAC

Closed-loop ground heat pump (min. COP 3.3) OR Chosen with Hea

Ductless mini-split (in zonal elec. heating houses) of Chosen with Hea HSPF 10.0+ shall give heat to largest zone in house. Sys. 4 or 5 only

Centrally ducted cold climate variable capacity heat pump (cc 6 VCHP), found on the NEEP cc VCHP qualified product list,

Open-loop water heat pump (min. COP 3.6) (8)

Ductless mini-split with no elec. resist, heating in primary living areas shall be HSPF 10.0+ OR HSPF

9.0+ if total heating loads do not exceed 24k BTUs.

Combination water heating & space heating

Storage Water Heaters (version 1.0)

Choose from one of the following

- Gas or propane water heater w/ UEF ≥ 0.91

water Heating Spec w/ the UEF noted above (11)

system shall include gas-fired heat pump water

Compact Hot Water Distribution system, the volume stored shall not

termination of fixture supply pipe (calculated via R403.5.2). When hot

primed with On Demand recirculation pump and must run a dedicated

ambient return line from the furthest fixture or end of loop to water heater.

exceed 16 oz. of water between nearest source of heated water &

water source is nearest primed plumbing loop or trunk, this must be

- Solar water heating w/ rated min. savings of 2000kWh (SRCC)

- Water heated by ground-source heat pump meeting req. of 3.4

Elec. heat pump water heater w/ a min. UEF of 2.9 & utilizing split-system

meet Section 4, requirements for all units, of the NEEA standard Advance

config. w/ air-to-refrigerant heat exhanger located outdoors. Equipment shall

6.1 0.5 credit/600 kWh generated per housing unit (5) (3) (4) 1.0

1 Dishwasher, fridge, washing machine, & dryer meet Energy Star requirements (15) 0.5

heaters meeting Tier II NEEA for Gas-Fuelded Res. with credit option 5.8

HSPF 9.5) (8)

with an HSPF 11.0+.

	ADDITIONAL NOTES			
1	An alternate heating source sized @ 0.5 Watts/ft² (equiv.) of heated floor area or 500 Watts whichever is larger, may be installed in the dwelling unit.			
(2)	Equipment listed in Table C403.3.2(5) or C403.3.2(6)			
3	Equip. in Table C403.3.2(2) + supplemental system per C403.3.2(5)b for comb. furn.			
④	You may not select more than (1) option from this category.			
(5)	0.5 credits for each 600 kwh of electrical generation provided annually, up to 4.5 credits max. See complete Table R406.2 for all req. and option descriptions.			
6	To qualify to claim this credit, the building permit drawings shall spec the option being selected & shall spec the max tested bldg air leakage & show the HRV sys.			
8	To qualify to claim this credit, the bldg permit drawings shall spec the option being selected & spec the heating equipment type & the min. equipment efficiency.			
9	For mech. equip. outside conditioned space, max 10' return duct & 5' supply duct connections to equipment may be outside deeply buried insul. All metallic ducts outside cond. space must have both transverse & longitudinal joints sealed w/ mastic. If flex ducts are used, they cannot contain splices.			
10	Bldg permit drawings shall spec option selected & spec heating equipment type & show the location of the heating & cooling equipment & all ductwork.			
11)	To qualify to claim this credit, the bldg permit drawings shall spec the option being selecter and shall spec the water heater equip, type & min. equip, efficiency			
(12)	Min. efficiency of 40% if installed for equal flow or a min. efficiency of 54% if installed for unequal flow. Such units shall be rated in accordance w/ CSA B55.1 or IAPMO IGC 346-2017 & be labeled. (must collect from 2+ showers/tubs). To qualify to claim this credit, the bldg permit drawings shall include a plumbing diagram that specs drain water HRU & plumbing layout needed to install it. Labels or other documentation shall be provided that demonstrates that the unit complies w/ the standard.			
Ever Eve A	Generation calculated via: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs or approved alternate by the 8.0.			

wind speed at the site & height of the tower.

MEASURED IN ACCORDANCE WITH R403.7.

(18) Per Table C403.3.2.(2), C403.3.2(9), or Air-H2O HP (heating/cooling) rated AHRI 550/590

the termination of the fixture.

WSEC Energy Code Compliance Checklist

KSPE = 48k (13) Documentation noting solar access shall be included on the plans. For wind generation, project design shall document annual power generations based on the following factors: the wind turbine power curve, average annual wind speed at site, frequency distribution of the စ်လ To qualify to claim this credit, the bldg permit drawings shall spec the option being selected) (<u>@</u>~ 14) & shall show the photovoltaic or wind turbine equipment type, provide documentation of soar & win access, & include a calculation of the min. annual energy power production. To qualify to claim this credit, the bldg permit drawings shall spec the option being selected & shall show the appliance type & provide documentation of Energy Star compliance. At the time of inspection, all appliances shall be installed & connected to utilities. Dryer ducts & exterior dryer vent caps are not permitted to be installed in the dwelling unit. HEATING and COOLING EQUIPMENT SHALL BE SIZED and EFFICIENCY Const. Documents shall show ounces of water in piping between the hot water source and

Additional Energy

2021

Credit Summary

≥ 6" (unless

equire Insulation Cod 93 er En State ton 0 Washing 2021

ELEVATION NOTES:

1. CONTRACTOR SHALL VERIFY ALL NOTES, MATERIALS, & CONDITIONS

PRIOR TO CONSTRUCTION.

CAULK ALL EXTERIOR JOINTS AND PENETRATIONS.

3. PROVIDE OR ANODIZED SHEET METAL FLASHING & COUNTERFLASHING @ ALL ROOF PENETRATIONS, CHIMNEYS, @ SKYLIGHTS.

. PROVIDE CONTINUOUS GUTTERS & DOWNSPOUTS @ ALL EAVES, TYP. 5. PROVIDE HEADER FLASHING @ ALL DOORS, WINDOWS, & SHUTTERS

PER DETAIL. 6. ALL PAPER AND TAPE TO LAP FROM TOP DOWN.

1. HOLD ALL SIDING MATERIAL 1 1/2" OFF ROOF.

9. SOFFIT ALL FLAT AREAS W/ 1 1/2" OVERHANG @ HORIZ. EDGES.

SIDE & GABLE END & GARAGE FRESH AIR VENTS TO BE LOUVERED. 14. ALL LIGHT BLOCKS ON FACADE TO BE FIRRED OUT AN ADDITION AL

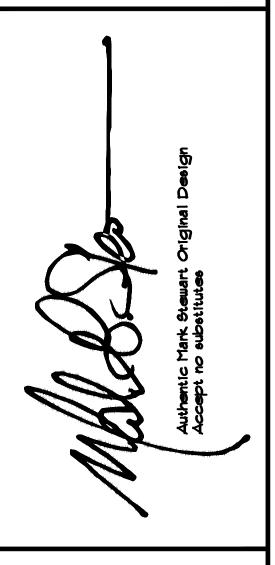
15. GUTTERS TO LAP UNDER DRIP EDGE @ GABLE ENDS. HOLD $1\frac{1}{2}$ " DRIP

UNDERNEATH. 16. ALL TRIM WORK TO BE APPLIED PRIOR TO SIDING MATERIALS. MARK STEWART HOME DESIGN

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PAGE

8. HOLD ALL SIDING MATERIAL 6" OFF FINISHED GRADE.

10. METAL FLASHING @ ALL TRIM & HORIZ. SIDING BREAKS. 11. RUND 2ND LAYER OF TAR PAPER VERT. @ INTERIOR & EXTERIOR CORNERS UNLESS TAR PAPER IS CONTINUOUS.

12. FOUNDATION VENTS TO BE SPACED PER PLAN. 13. ALL FOUNDATION VENTS ON STREET SIDE OF HOUSE I.E. FRONT & OR

EDGE OUT 1/4" AWAY FROM FASCIA TO EXCEPT GUTTERS TO LAP

(SIDING TO BUTT UP TO TRIM WORK)

GENERAL NOTES

- ALL WORK IS TO COMPLY WITH THE LATEST ADOPTED VERSION(s) OF THE RELEVANT BUILDING CODES AND ANY APPLICABLE STATE, COUNTY OR LOCAL REGULATIONS.
 THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS AND IS TO NOTIFY THE DESIGNER OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION
- OMISSIONS PRIOR TO THE START OF CONSTRUCTION.

DIMENSIONS. DO NOT SCALE THE DRAWINGS.

. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED

4. DESIGN LOADS: ROOF 30 PSF (LIVE LOAD)
FLOOR 55 PSF
STAIRS 100 PSF
GARAGE FLOOR 50 PSF (2000* PT.)
DECKS 80 PSF

HANDRAILS 200 PSF

(IF YOUR LOCAL AREA REQUIRES DIFFERENT DESIGN LOADS CONSULT WITH A LOCAL STRUCTURAL ENGINEER TO DETERMINE THE APPROPRIATE REVISIONS.)

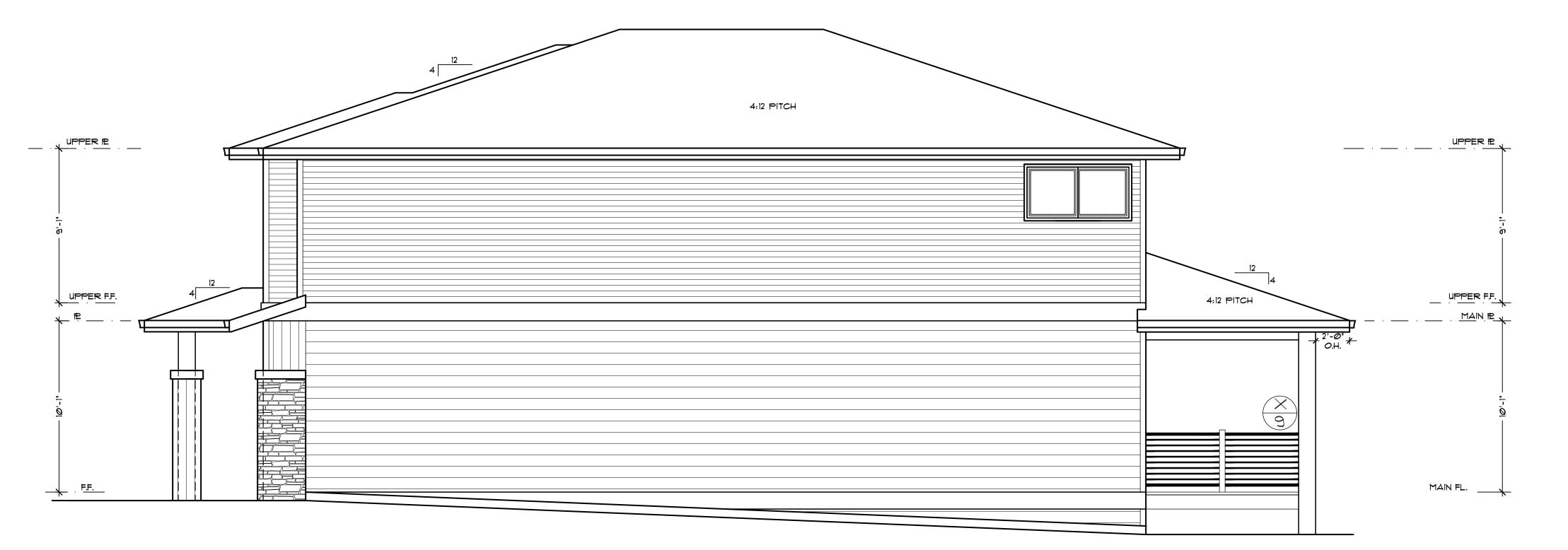
5. INSULATION: ROOF (VAULTED) R-30
ROOF (FLAT) R-49
WALLS (EXTERIOR) R-20+5 OR 13+10
FLOOR (OVER UNHEATED SPACE) R-38
SLAB ON GRADE R-10

IF DESIRED OR REQUIRED. VERIFY WITH CONTRACTOR.

- FURNACE DUCTS (UNHEATED SPACE) R-8
 MIN. WINDOW U RATING

 6. THE ABOVE VALUES ARE A MINIMUM AND MAY BE INCREASED
- . ALL EXPOSED INSULATION IS TO HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DENSITY RATING OF LESS THAN 450.
- 3. ROOFING: COMPOSITION ROOFING PER OWNERS/BUILDERS SPECIFICATIONS, U.N.O., ON BUILDER'S FELT OR OTHER APPROVED BARRIER.
- 3. SIDING: AS NOTED ON PLAN ELEVATIONS, INSTALL PER CODE AND MANUFACTURER INSTRUCTIONS.
- 10. GIFASCIA GUTTER. PROVIDE DOWNSPOUTS
 SUFFICIENT TO DRAIN ROOF AND DISPOSE OF THROUGH
 APPROVED RAIN DRAIN DISPOSAL SYSTEM.





RIGHT ELEVATION

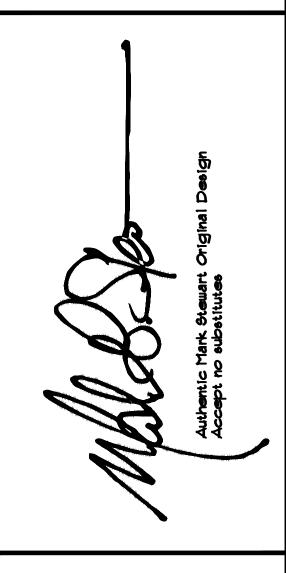
SCALE: 1/4"=1'-Ø"



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PAGE



of 7

FOUNDATION NOTES AS APPLIES

FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ANY ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW

2. SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF.

THE FINAL GRADE.

AT 5 FT. (MINIMUM) OC.

- 3. ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MINIMUM OF 4" GRANULAR MATERIAL COMPACTED TO 95%.
- 4. CONCRETE: -BASEMENT WALLS & FOUNDATIONS NOT EXPOSED TO WEATHER: 2,500 PSI -BASEMENT & INTERIOR SLABS ON GRADE : 2,500 PSI BASEMENT WALLS & FOUNDATIONS
 - EXPOSED TO THE WEATHER: 3,000 PSI -PORCHES, STEPS & CARPORT SLABS EXPOSED TO WEATHER: 3,500 PSI
- (MAXIMUM) INTERVALS EACH WAY. 6. CONCRETE SIDEWALKS TO HAVE 1/2" TOOLED JOINTS

5. CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25 FT.

- REINFORCING STEEL TO BE A-615 GRADE 40. WELDED WIRE MESH TO BE A-185.
- 8. EXCAVATE SITE TO PROVIDE A MINIMUM OF 18 IN. CLEARANCE UNDER ALL GIRDERS OR JOISTS.
- 9. COVER ENTIRE CRAWL SPACE WITH 6 MIL BLACK "VISQUEEN" AND EXTEND UP FOUNDATION WALLS A MIN. OF 12".
- 10. PROVIDE A MINIMUM OF I SQ. FT. OF VENTILATION AREA FOR EACH 150 SQ. FT. OF CRAWL SPACE AREA. VENTS ARE TO BE OPERABLE WITH 1/4 IN. MESH CORROSION
- II. ALL WOOD IN CONTACT WITH CONCRETE TO BE TREATED OR NATURALLY DECAY RESISTANT OR PROTECTED WITH 55# ROLL ROOFING, MIN.

12. BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE

- AT SIDES AND ENDS WITH A MINIMUM BEARING OF 3 INCHES.
- 13. PROVIDE CRAWL SPACE LOW POINT DRAIN PER CODE.
- 14. USE 4" CMU. BELOW GRADE AT STONE VENEER AREAS. WIDEN FOOTING 6" AT VENEERED AREAS. - SEE PLAN FOR LOCATION.
- 15. PROVIDE 2X TREATED MUD SILL WITH 1/2" A.B. @ 48" OC, U.N.O., W/ A MIN. OF 2-PER PL. AND WITHIN 12" OF EACH CORNER.
- 16. BLOCK OUT FOR FURNACE AS/IF REQUIRED.
- 17. PROVIDE 18"x24" CRAWL SPACE ACCESS MIN. -SEE PLAN FOR LOCATION.
- 18. WHERE 8" TWO-STORY STEMWALL IS USED PROVIDE A 16"X8" CONTINUOUS FOOTING W/ (2)- *4 BARS CONT. AND 3" CLEAR TO BOTTOM AND SIDES, U.N.O.
- 19. WHERE 6" ONE-STORY STEMWALL IS USED PROVIDE A 12"X6" CONTINUOUS FOOTING W/ (2)- #4 BARS CONT. AND 3" CLEAR TO BOTTOM AND SIDES, U.N.O.

8" CONC. FDN. WALLS ON 16"X8" CONC. FTG'S W/ (2) *4 BARS CONT. 3 1/2"x1 1/2" KEYWAY CONT. TYPICAL AT ALL FOUNDATION WALLS EXCEPT AS NOTED ON DRAWING. PROVIDE P.T. 2x6 MUD-SILLS W/ 1/2"x10" ANCHOR BOLTS @ 48" O.C. (2) WITHIN 12" OF SILL ENDS @ ALL FOUNDATION WALLS FOR HOUSE

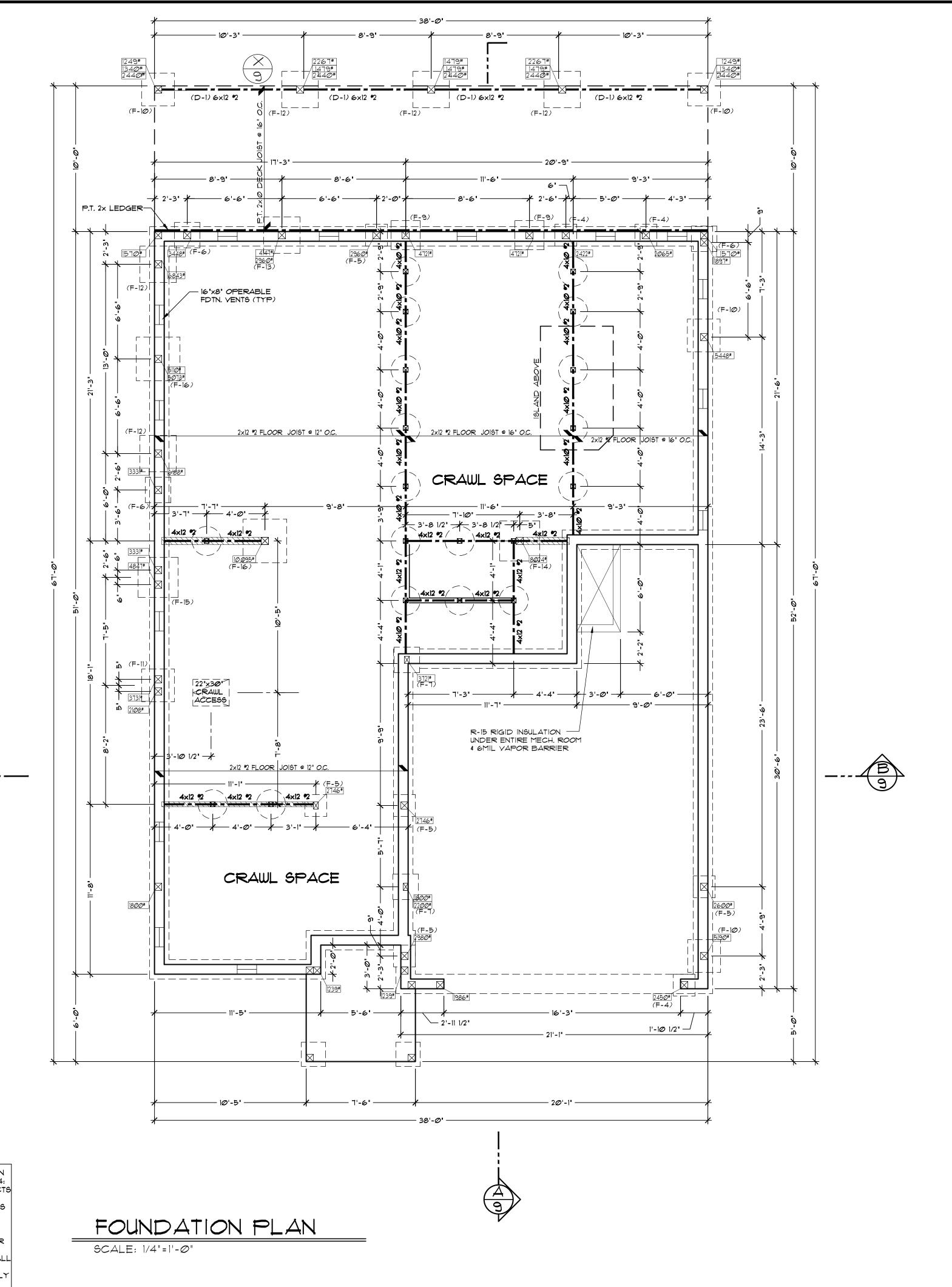
FOOTING SIZE CHART:						
FTG. #	LOAD	FTG. SIZE	REBAR			
(F-1)	1,000#	12"×12"×1Ø"	(2) #4 E/W			
(F-2)	1,500#	15"×15"×10"	(2) #4 E/W			
(F-3)	2,000#	15"×15"×10"	(2) #4 E/W			
(F-4)	2,500#	18"×18"×10"	(2) #4 E/W			
(F-5)	3,000#	18"×18"×10"	(2) #4 E/W			
(F-6)	3,5 <i>00</i> #	21"×21"×1Ø"	(3) #4 E/W			
(F-7)	4,000#	21"×21"×1Ø"	(3) #4 E/W			
(F-8)	4,500#	24"×24"×1Ø"	(3) #4 E/W			
(F-9)	5,000#	24"×24"×1Ø"	(3) #4 E/W			
(F-1Ø)	5,500#	27"×27"×1Ø"	(3) #4 E/W			
(F-11)	6,000#	27"×27"×1Ø"	(3) #4 E/W			
(F-12)	7,000#	30"x30"x10"	(4) #4 E/W			
(F-13)	8,000#	30"x30"x10"	(4) #4 E/W			
(F-14)	9,000#	33"×33"×12"	(5) #4 E/W			
(F-15)	10,000#	33"×33"×12"	(5) #4 E/W			
(F-16)	11,000#	36"×36"×12"	(5) #4 E/W			
(F-17)	12,000#	36"×36"×12"	(5) #4 E/W			
(F-18)	13,000#	39"×39"×12"	(5) #4 E/W			
(F-19)	14,000#	39"×39"×12"	(5) #4 E/W			
(F-2Ø)	15,000#	42"×42"×12"	(6) #4 E/W			
(F-21)	16,000#	42"×42"×12"	(6) #4 E/W			
(F-22)	17 <i>,</i> ØØØ#	45"×45"×12"	(6) #4 E/W			
(F-23)	18,000#	45"×45"×12"	(6) #4 E/W			
(F-24)	2 <i>0,000</i> #	48"×48"×12"	(6) #4 E/W			
(F-25)	22,000#	54"x54"x12"	(7) #4 E/W			
(F-26)	24,000#	54"x54"x12"	(7) #4 E/W			
(F-29)	32 <i>,</i> ØØØ#	60"×60"×12"	(8) #4 E/W			
	36,000#	72"×72"×12"	(9) #4 E/W			
(F-35)	48,000#	72"×72"×12"	(12) #4 E/W			

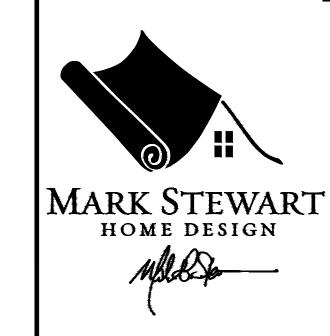
= 4x4 POST ON 24"#x10" FOOTING WALL-(2) *4 CONTIN. REBAR AT TOP OF WALL -TYP * VARIES -* *4 L VERTS AT - ENDS OF WALLS (2) *4 CONTIN. IN FOOTINGS-- - \perp - -(MIN -TYP) TYPICAL "STEP"

(⋈) = 6x6 POST ON 24"#x10" FOOTING

RADON MITIGATION

INSTALL A PASSIVE SUB-MEMBRANE DEPRESSURIZATION SYSTEM FOR RADON GAS MITIGATION. INSTALL A 3 OR 4: TEE FITTING UNDER THE VAPOR BARRIER THAT CONNECTS TO A PIPE RUNNING VERTICALLY THROUGH THE HOUSE AND TERMINATING THROUGH THE ROOF. AS PART OF THIS MITIGATION SOLUTION ALSO SEAL ALL OPENINGS/PENETRATIONS BETWEEN THE FLOOR LEVEL AND THE THE CRAWLSPACE, ALL DUCTWORK IN CRAWL SPACE TO BE PERFORMANCE TESTED. VAPOR BARRIER TO BE SEALED WHERE PENETRATED. CRAWL SPACE ACCESS TO BE GASKETED. VENTILATION OPENINGS SHALL COMPLY WITH ALL CODE REQUIREMENTS. OPERABLE LOUVERS, DAMPERS, OR OTHER MEANS TO TEMPORARILY STOP THE VENTILATION SHALL NOT BE PERMITTED.

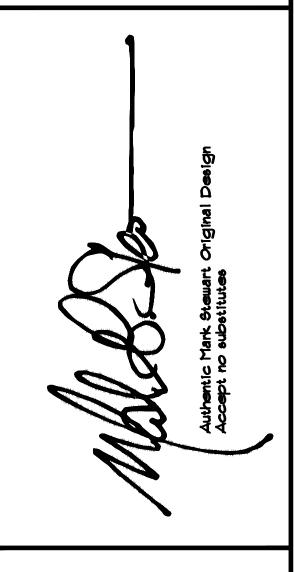




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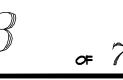
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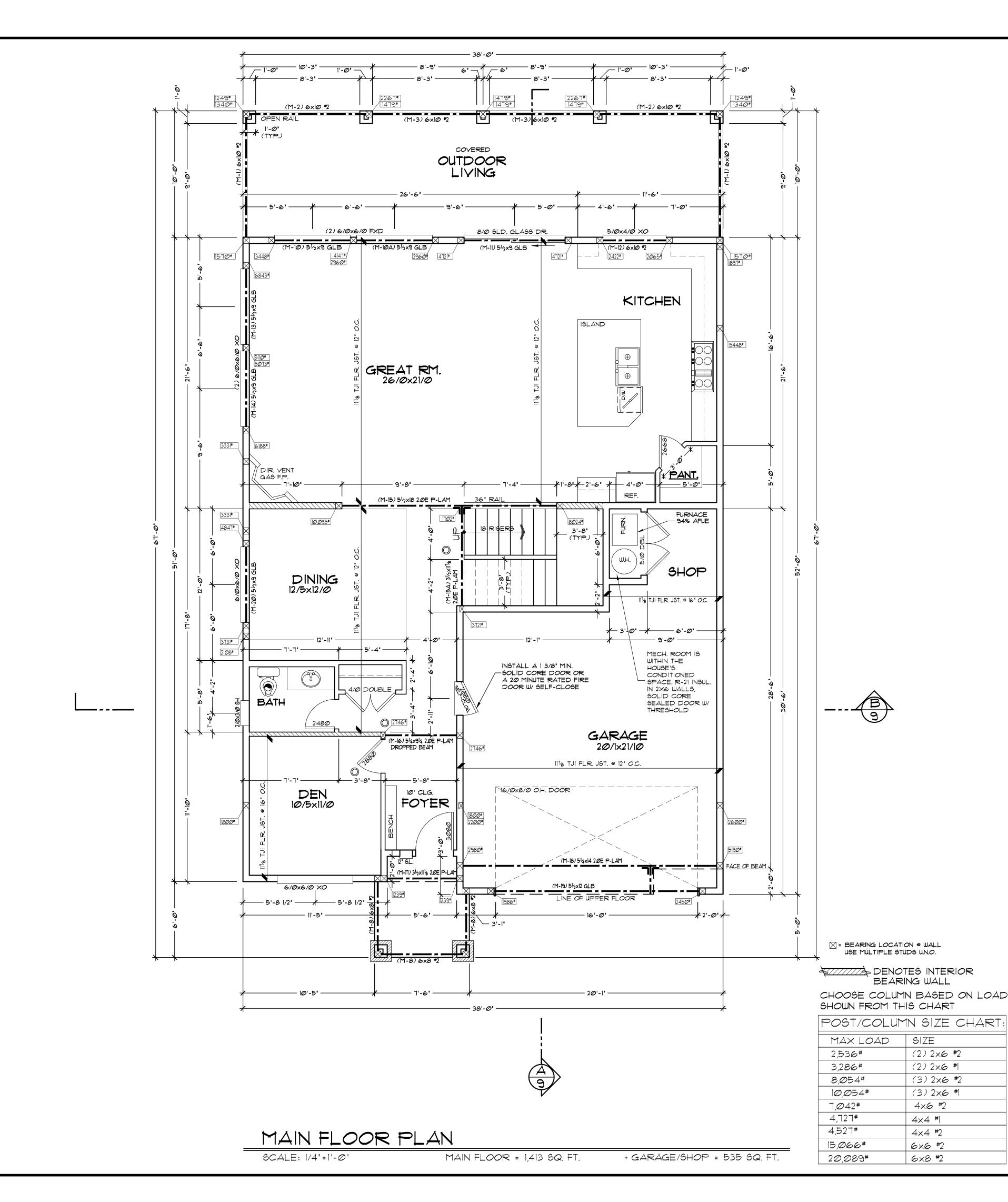
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PAGE



OF SIDE WALL FTG'S

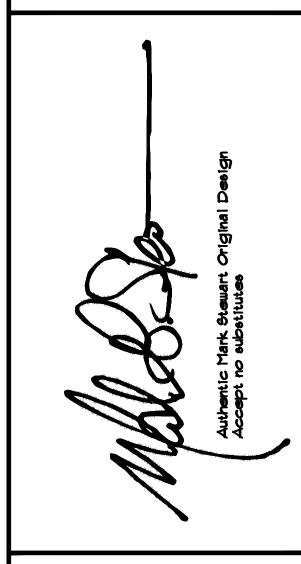




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PAGE

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|POWDER RM. FAN = MIN. 50 CFM

8. BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A FAN CAPABLE OF PRODUCING A MINIMUM OF 4 AIR EXCHANGES PER HOUR. RANGE HOODS ARE ALSO TO BE VENTED TO THE OUTSIDE.

PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND

BACK DAMPER) FOR FIREPLACES, WOOD STOVES AND

MISCELLANEOUS NOTES

3. SKYLIGHTS ARE TO BE GLAZED WITH TEMPERED GLASS ON

OUTSIDE AND LAMINATED GLASS ON INSIDE (UNLESS PLEXIGLAS). GLASS TO HAVE MAXIMUM CLEAR SPAN

4. ALL TUB AND SHOWER ENCLOSURES ARE TO BE GLAZED

ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH

PROVIDE PEEPHOLE 54 - 66 IN. ABOVE FIN. FLOOR

LOCATION) TO HOUSE ELECTRICAL SYSTEM AND INTER-

6. CONNECT ALL SMOKE DETECTORS (SEE PLAN FOR

CONNECT EACH ONE SO THAT WHEN ANY ONE IS

5. ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND

WEATHER STRIPPING PROVIDE 1/2 IN. DEAD BOLT LOCKS

ON ALL EXTERIOR DOORS, AND LOCKING DEVICES ON ALL

DOORS AND WINDOWS WITHIN 10 FT. (VERTICAL) OF GRADE.

OF 25 IN., AND FRAME IS TO BE ATTACHED TO A 2X CURB WITH A MINIMUM OF 4 IN. ABOVE ROOF PLANE.

EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 5.7 SQ. FT. WITH A MINIMUM WIDTH OF 20 IN. AND A SILL LESS THAN 44 IN. ABOVE THE FINISH FLOOR. 2. ALL WINDOWS WITHIN IS IN. OF THE FLOOR, AND WITHIN 24 IN. OF A PARALLEL TO THE STRIKE SIDE OF A DOOR

ARE TO HAVE TEMPERED GLAZING.

ON EXTERIOR ENTRY DOORS.

TRIPPED THEY WILL ALL SOUND.

ANY APPLIANCES WITH AN OPEN FLAME.

9. ELECTRICAL RECEPTACLES IN BATHROOMS, KITCHENS AND GARAGES SHALL BE G.F.I. OR G.F.C.I. PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

ELECTRICAL NOTE:

ALL ELECTRICAL IS TO BE OWNER VERIFIED PRIOR TO CONSTRUCTION & COMPLY WITH CURRENT ELECTRICAL, BUILDING & FIRE CODES

COMBINATION SMOKE/CARBON MONOXIDE ALARM/DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHEN SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM A BATTERY. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN THOSE REQUIRED FOR OVERCURRENT PROTECTION. SMOKE ALARM FEATURES OF COMBINATION SMOKE/CARBON MONOXIDE ALARM/DETECTORS SHALL BE INTERCONNECTED

** ELECTRICAL LEGEND **

IIØV CO/\$MOKE DETECTOR INTERCONNECT W/ ALL THE SMOKE DETECTORS IN HOUSE

EXHAUST FAN LEGEND				
BATH/SPA FAN =	MIN. 80 CFM intermittant or 20 CFM continuous			
KITCHEN RANGE FAN =	MIN. 150 CFM intermittant			
BOUDED DY EAN	MIN 50 CEM			

MISCELLANEOUS NOTES

- EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 5.7 SQ. FT. WITH A MINIMUM WIDTH OF 20 IN. AND A SILL LESS THAN 44 IN. ABOVE THE FINISH FLOOR.
- 2. ALL WINDOWS WITHIN IS IN. OF THE FLOOR, AND WITHIN 24 IN. OF A PARALLEL TO THE STRIKE SIDE OF A DOOR ARE TO HAVE TEMPERED GLAZING.
- 3. SKYLIGHTS ARE TO BE GLAZED WITH TEMPERED GLASS ON OUTSIDE AND LAMINATED GLASS ON INSIDE (UNLESS PLEXIGLAS). GLASS TO HAVE MAXIMUM CLEAR SPAN OF 25 IN., AND FRAME IS TO BE ATTACHED TO A 2X CURB WITH A MINIMUM OF 4 IN. ABOVE ROOF PLANE.
- 4. ALL TUB AND SHOWER ENCLOSURES ARE TO BE GLAZED WITH SAFETY GLASS.
- 5. ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH WEATHER STRIPPING PROVIDE 1/2 IN. DEAD BOLT LOCKS ON ALL EXTERIOR DOORS, AND LOCKING DEVICES ON ALL DOORS AND WINDOWS WITHIN 10 FT. (VERTICAL) OF GRADE. PROVIDE PEEPHOLE 54 - 66 IN. ABOVE FIN. FLOOR ON EXTERIOR ENTRY DOORS.
- 6. CONNECT ALL SMOKE DETECTORS (SEE PLAN FOR LOCATION) TO HOUSE ELECTRICAL SYSTEM AND INTER-CONNECT EACH ONE SO THAT WHEN ANY ONE IS TRIPPED THEY WILL ALL SOUND.
- PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND BACK DAMPER) FOR FIREPLACES, WOOD STOVES AND ANY APPLIANCES WITH AN OPEN FLAME.
- 8. BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A FAN CAPABLE OF PRODUCING A MINIMUM OF 4 AIR EXCHANGES PER HOUR. RANGE HOODS ARE ALSO TO BE VENTED TO THE OUTSIDE.
- 9. ELECTRICAL RECEPTACLES IN BATHROOMS, KITCHENS AND GARAGES SHALL BE G.F.I. OR G.F.C.I. PER NATIONAL ELECTRICAL CODE REQUIREMENTS.

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POWDER RM. FAN =	MIN. 50 CFM			

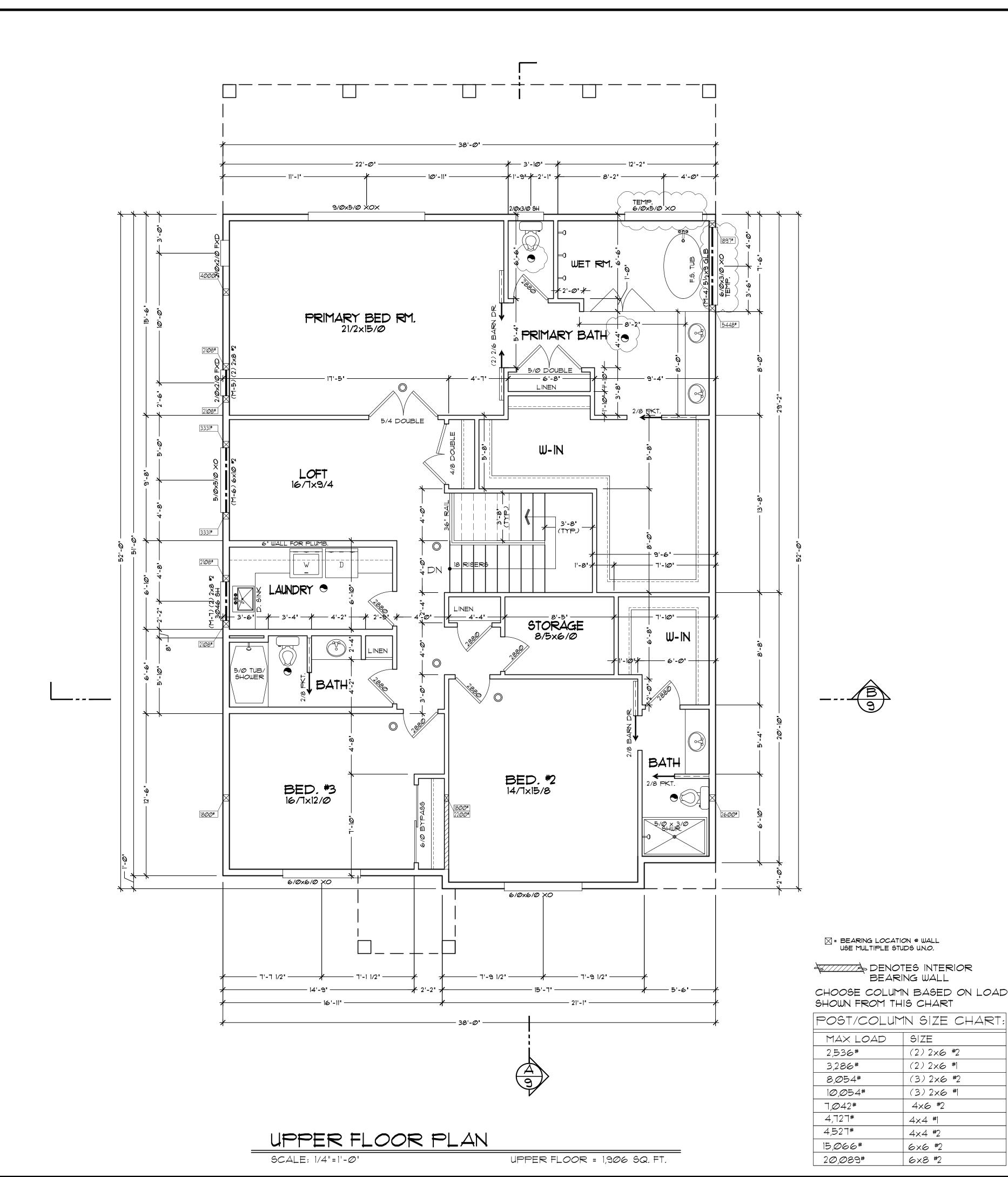
4x10 HEADER UNLESS OTHERWISE NOTED. EXCEPTION: 1) 4x8 *2 D.F.L.

MAY BE USED @ GABLE ENDS OF

TRUSSED ROOFS ON UPPER FLOOR. WINDOW OPENINGS NOT EXCEEDING 6'-0" IN WIDTH & WITH NO POINT LOADS. EXCEPTION: 2) 4x10 *2 D.F.L. HEADERS
MAY BE USED @ MAIN FLOOR OPENINGS ON GABLE ENDS, THAT DO NOT EXCEED 6'-0', AND DO NOT HAVE POINT LOADS ON THEM.

PROVIDE CAULKING UNDER ALL SILL PLATES AT EXTERIOR PERIMETER OF HOUSE

- SEAL ALL WALL AND FLOOR PENETRATIONS FROM ELECTRICAL, PLUMBING, AND MECHANICAL COMPONENTS PER CODE
- VERIFY ALL FLOOR JOISTS BREAK ONLY OVER 2X STUD BEARING WALLS OR BEAMS

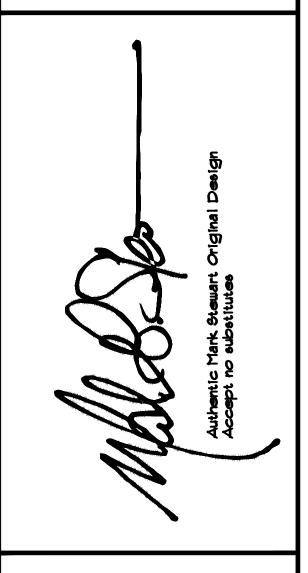




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PAGE

BEARING WALL

SIZE

(2)2×6 #2

(2)2×6 #1

(3)2×6 #2

(3)2x6 #1

4×6 #2

4×4 #1

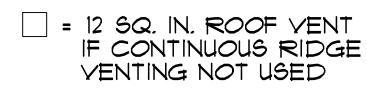
4×4 #2

6×6 #2

6×8 #2



0F /



= OYERLAY AREA W/ 2×8 @24" O.C.

I = BEARING WALL



ROOF FRAMING NOTES AND SPECIFICATIONS

ROOFING: COMP. OR STANDING SEAM METAL ROOFING PER OWNER'S/ BUILDER'S SPECIFICATIONS INSTALL PER MANUFACTURER'S SPEC. ON NOM. 1/2" CDX PLYWD. SHEATHING ON ROOF FRAMING PER PLAN

- . ROOF PITCHES: AS NOTED ON PLANS
- B. EAVE OVERHANGS AS NOTED ON PLANS PROVIDE 2x SOLID BLKG WITH 2x12 SCREENED
- VENTS AT 6'-0" O.C. MIN. OR IF SOFFIT IS INSTALLED - USE 1/2" ACX VENTED SOFFIT - SEE
- 5. PROVIDE INSULATION BAFFLE AT EAVE VENTS.
- . ROOF VENTILATION (MIN. AREA): THE TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN I TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE TOTAL AREA IS PERMITTED TO BE REDUCED TO 1 TO 300, PROVIDED AT LEAST 40% AND NOT MORE THAN 50% OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. UPPER VENTILATORS SHALL BE LOCATED NOT MORE THAN 3 FEET BELOW THE RIDGE OR HIGHEST POINT OF THE SPACE, MEASURED VERTICALLY, WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS. AS AN ALTERNATIVE, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO 1 TO 300 WHEN A VAPOR BARRIER HAVING A TRANSMISSION RATE NOT EXCEEDING I PERM IS INSTALLED ON THE WARM-IN-WINTER SIDE OF THE CEILING. -WHERE EAVE OR CORNICE VENTS ARE INSTALLED, INSULATION SHALL NOT BLOCK THE FREE FLOW OF AIR. A MINIMUM OF 1-INCH SPACE SHALL BE PROVIDED BETWEEN THE INSULATION AND THE ROOF SHEATHING AT THE LOCATION OF THE VENT. ROOF ACCESS: (ACCESSIBLE ATTIC ACCESS): A READILY ACCESSIBLE ATTIC ACCESS FRAMED

OPENING NOT LESS THAN 22 INCHES BY 30 INCHES

SHALL BE PROVIDED TO ANY ATTIC AREA HAVING A CLEAR HEIGHT OF OVER 30 INCHES.

-SEE FLOOR PLANS FOR LOCATIONS

ROOF FRAMING LAYOUT AS SHOWN PROJECTS END LOADING OF GIRDER TRUSSES ON HEADERS, \$/OR SOLID BRG AND LOADING IS PROJECTED DOWN TO FOOTINGS SHOWN ON FOUNDATION PLAN THEREFORE IF TRUSS COMPANY MOVES ANY GIRDER TRUSSES THE LOADING & BRG POINTS WILL MOVE AND CURRENT WORKING DRAWINGS WILL NEED TO BE UPDATED. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY 'MARK STEWART' OF ANY CHANGES MADE TO THE ROOF FRAMING LAYOUT PRIOR TO CONSTRUCTION

DEPENDING ON TRUSS DESIGN - OVERBUILD AREAS MAY OCCUR IN SOME AREAS - USE 2x8 DF #2 JOISTS AT 24" O.C. AS NEEDED TO CREATE ROOF LINES AS SHOWN ON PLANS UNLESS OVERBUILD AREAS ARE DESIGNED W/ TRUSSES PER TRUSS MANUFACTURER

MANUFACTURER'S TRUSS LAYOUT AND INSTALLATION INSTRUCTIONS ARE TO BE ON SITE & AVAILABLE FOR BLD'G INSPECTOR'S USE AND REFERENCE

TRUSS NOTES:

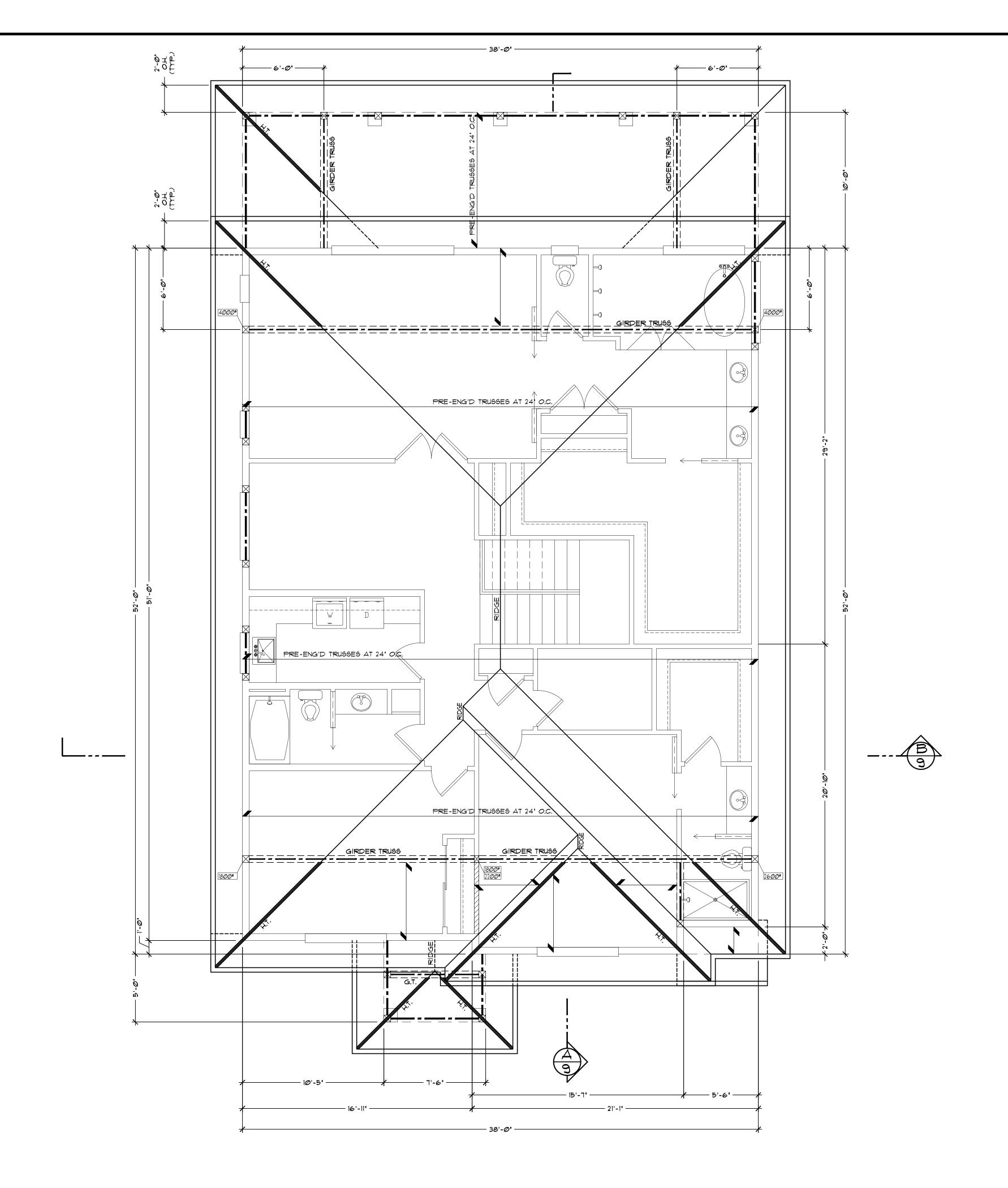
ALL TRUSSES TO BE PRE-ENGINEERED AND CARRY MANUFACTURER'S STAMP.

ALL TRUSSES SHALL BE INSTALLED & BRACED TO MANUFACTURER'S SPECIFICATIONS.

ALL CONNECTIONS WITH RAFTERS, MONO OR JACK TRUSSES AND HIP TRUSSES TO MAIN GIRDER TO BE PROVIDED BY THE TRUSS MANUFACTURER

TRUSS LAYOUT SHOWING GIRDER TRUSS LOCATIONS ARE NOT PERMITTED TO CHANGE AND MUST BE FOLLOWED CORRECTLY, IF TRUSS MANUFACTURER REQUESTS TO CHANGE IN PART OR IN WHOLE THE LAYOUT DESIGNED HEREIN, HE/SHE MUST CONTACT THE DESIGNER TO INSURE STRUCTURAL DESIGN IS MAINTAINED ON THE BUILDING CORRECTLY. ALSO IF THE DESIGN LAYOUT IS DETERMINED TO CHANGE, THE BUILDING DEPARTMENT WILL REQUIRE APPROVAL AND NEW ENGINEERING CALC'S

> CONNECT EACH TRUSS/RAFTER TO EACH SUPPORT WITH SIMPSON "H-3" OR "H2.5A" TIE (TYP)



4" HEEL ON TRUSS'

ROOF FRAMING PLAN

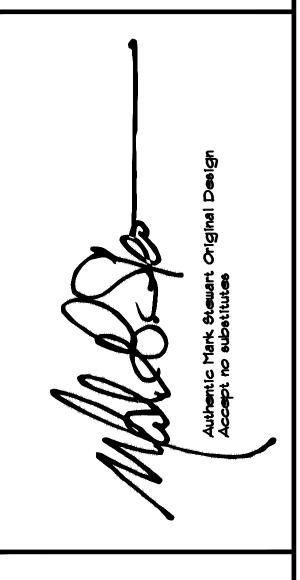
SCALE: 1/4"=1'-0"



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PAGE



of (

STAIR & GUARDRAIL NOTES:

HANDRAIL IS INSTALLED ON ONE SIDE AND 28 INCHES WHERE

STAIRWAYS:
WIDTH: STAIRWAYS SHALL NOT BE LESS THAN 36" IN CLEAR
WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL
HEIGHT. THE MINIMUM WIDTH AT AND BELOW THE HANDRAIL
HEIGHT SHALL NOT BE LESS THAN 32 INCHES WHERE A

WHERE HANDRAILS ARE PROVIDED ON BOTH SIDES.

TREADS & RISERS: THE MAXIMUM RISER HEIGHT SHALL BE I 3/4 INCHES AND THE MINIMUM TREAD DEPTH SHALL BE IO INCHES. THE RISER HEIGHT SHALL BE MEASURED VERTICALLY BETWEEN LEADING EDGES OF THE ADJACENT TREADS. THE TREAD DEPTH SHALL BE MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREADS LEADING EDGE. THE WALKING SURFACE OF TREADS AND LANDINGS OF A STAIRWAY SHALL BE SLOPED NO STEEPER THAN ONE VERTICAL IN 48 UNITS HORIZONTAL (2% SLOPE). THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY 3/8 INCH.

PROFILE: THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE NO GREATER THAN 9/16 INCH. A NOSING NOT LESS THAN 3/4 INCH BUT NOT MORE THAN I 1/4 INCHES SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS. BEVELING OF NOSING SHALL NOT EXCEED 1/2 INCH. RISERS SHALL BE VERTICAL OR SLOPED FROM THE UNDERSIDE OF THE LEADING EDGE OF THE TREAD ABOVE AT AN ANGLE NOT MORE THAN 30 DEGREES FROM THE VERTICAL. * EXCEPTION: A NOSING IS NOT REQUIRED WHERE THE TREAD DEPTH IS A MINIMUM OF II INCHES.

HEADROOM: THE MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 6 FEET 8 INCHES MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING OR PLATFORM.

ILLUMINATION: ALL STAIRS SHALL BE PROVIDED WITH ILLUMINATION PER CODE.

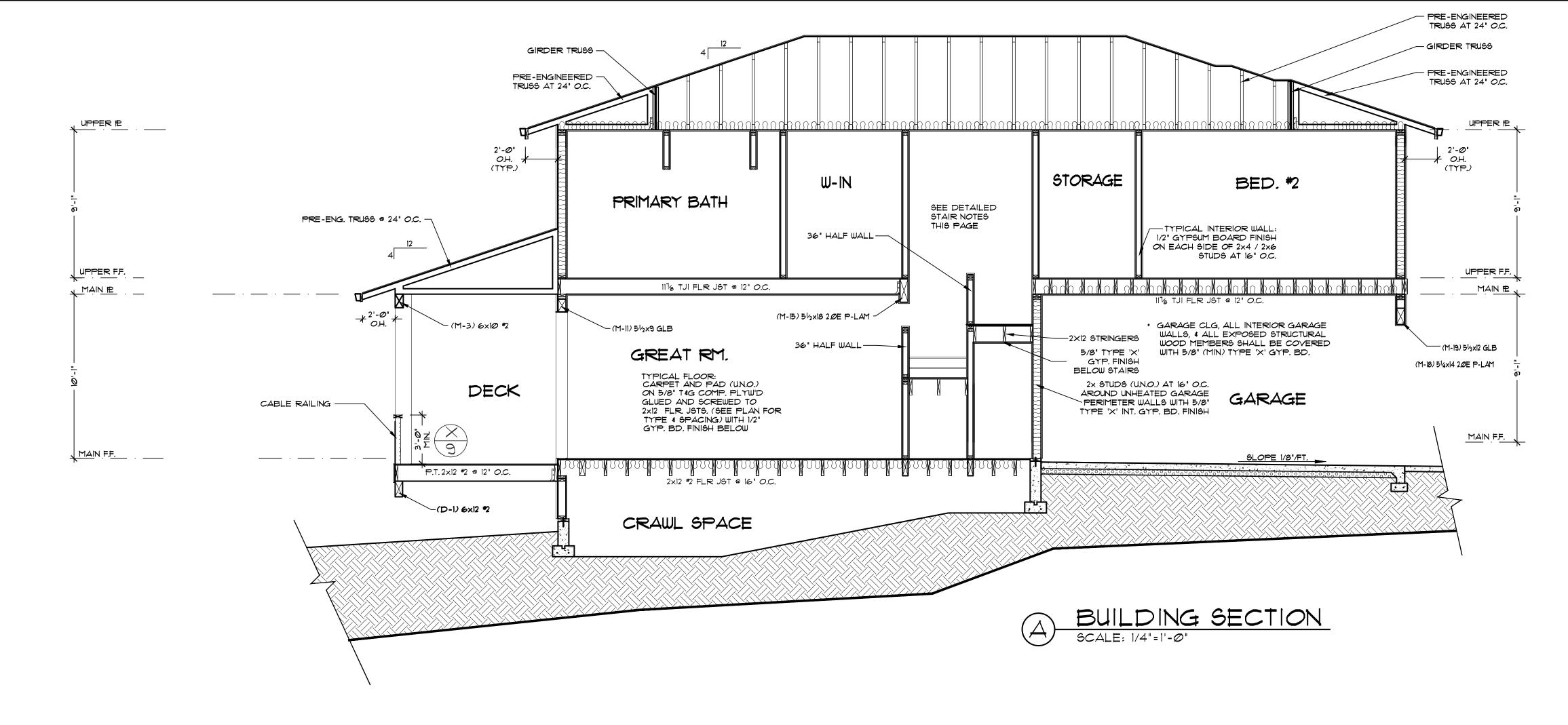
HANDRAILS: HANDRAILS HAVING MINIMUM AND MAXIMUM HEIGHTS OF 34 INCHES AND 38 INCHES, RESPECTIVELY, MEASURED VERTICALLY FROM THE NOSING OF THE TREADS, SHALL BE PROVIDED ON AT LEAST ONE SIDE OF STAIRWAYS OF THREE OR MORE RISERS. SPIRAL STAIRWAYS SHALL HAVE THE REQUIRED HANDRAIL LOCATED ON THE OUTSIDE RADIUS. ALL REQUIRED HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1 1/2 INCHES BETWEEN THE WALL AND THE HANDRAIL.

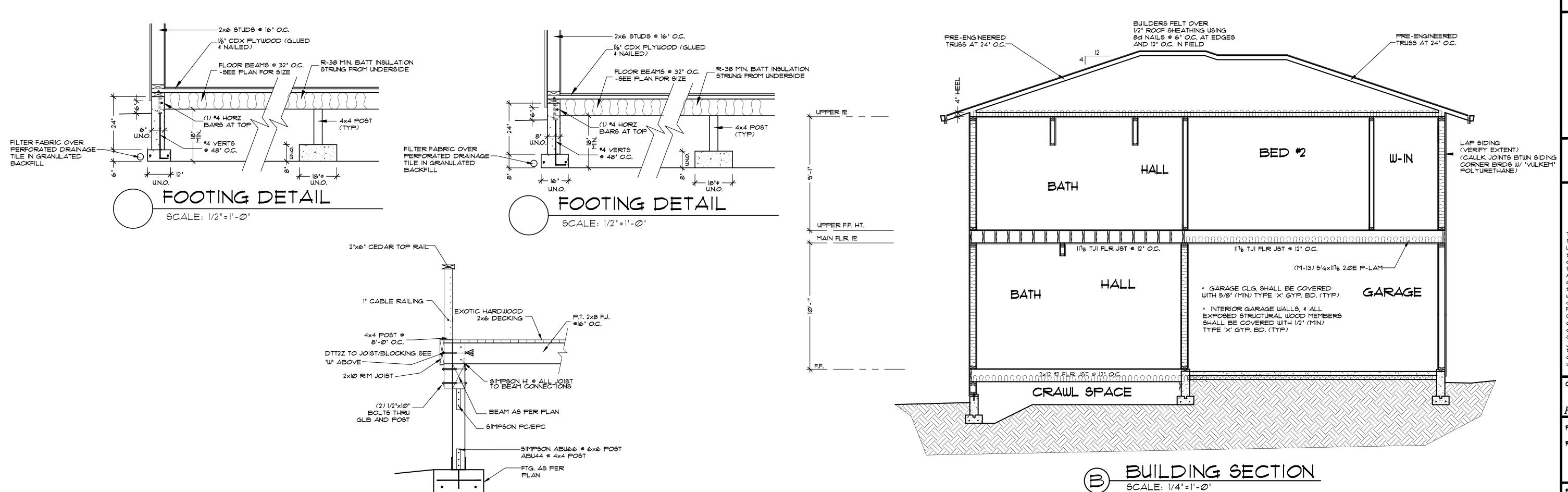
EXCEPTIONS: 1. HANDRAILS SHALL BE PERMITTED TO BE INTERRUPTED BY

A NEWEL POST AT A TURN.

2. THE USE OF A VOLUTE, TURNOUT OR STARTING EASING SHALL BE ALLOWED OVER THE LOWEST TREAD.

GUARDRAIL DETAILS: PORCHES, BALCONIES OR RAISED FLOOR FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDRAILS NOT LESS THAN 36 INCHES IN HEIGHT. OPEN SIDES OF STAIRS WITH A TOTAL RISE OF MORE THAN 30 INCHES ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARD-RAILS NOT LESS THAN 34 INCHES IN HEIGHT MEASURED VERTICALLY FROM THE NOSING OF THE TREADS.





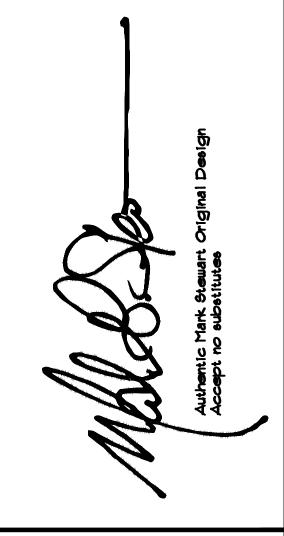
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PAGE

OF 7