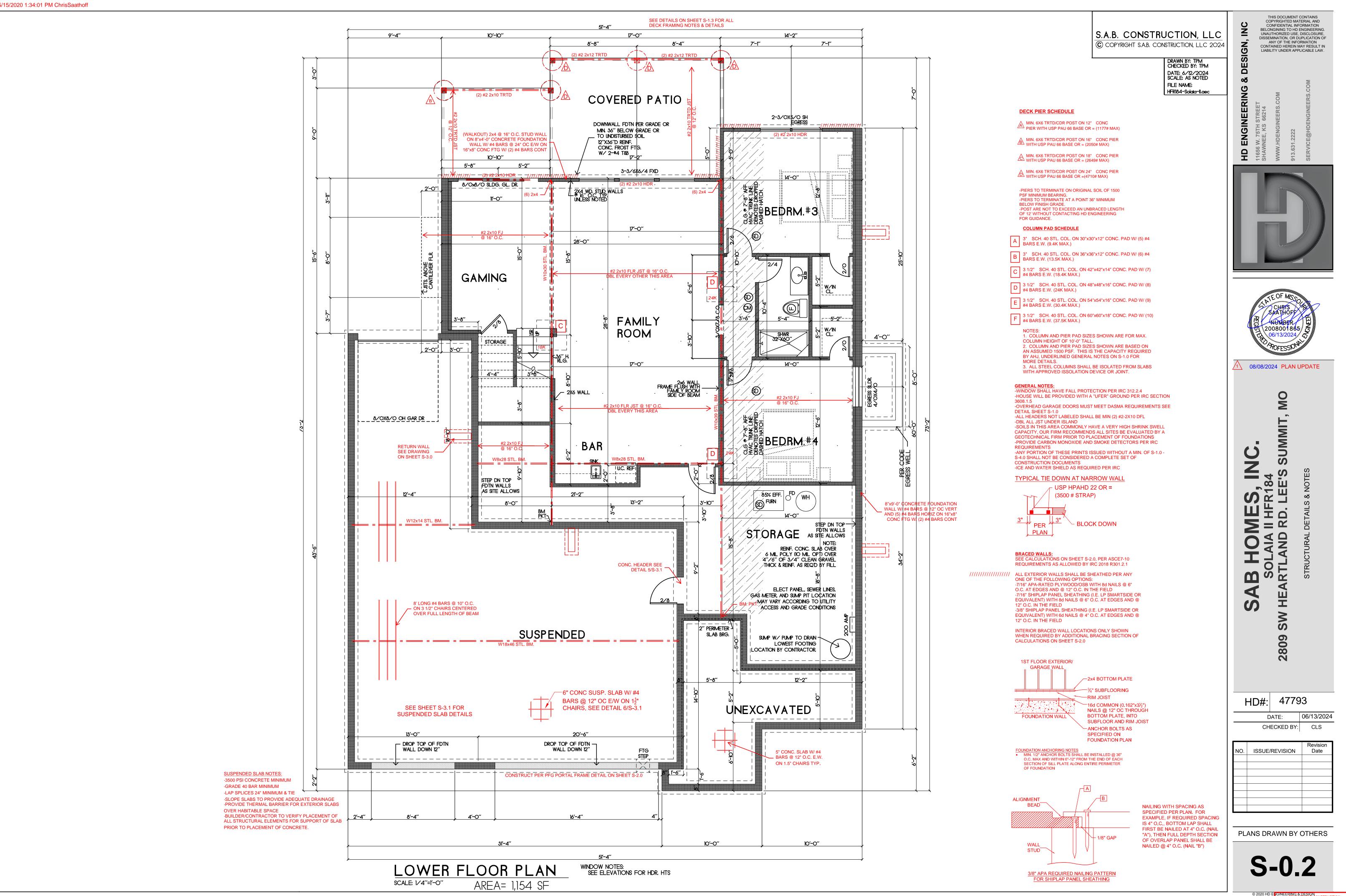
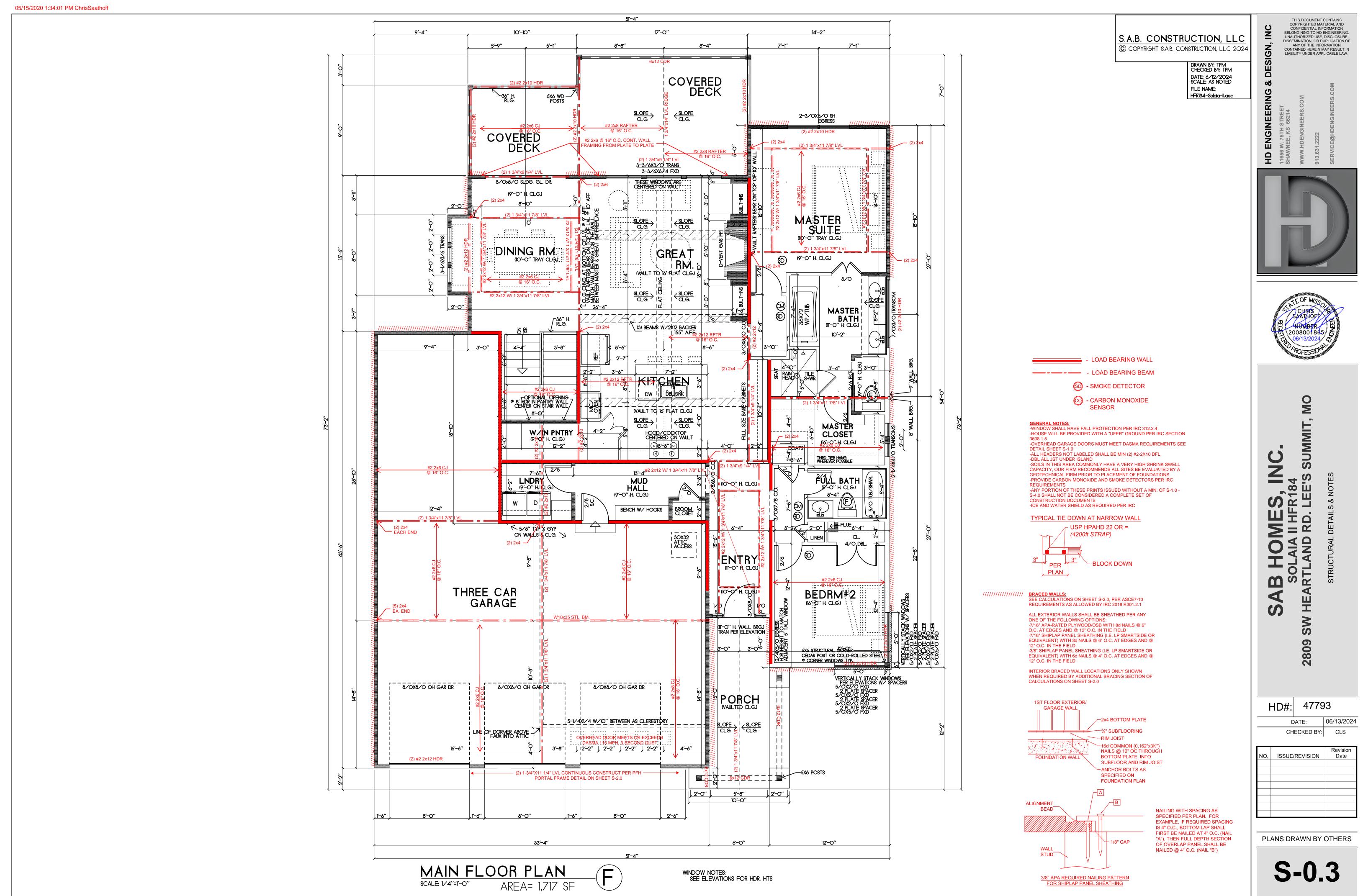


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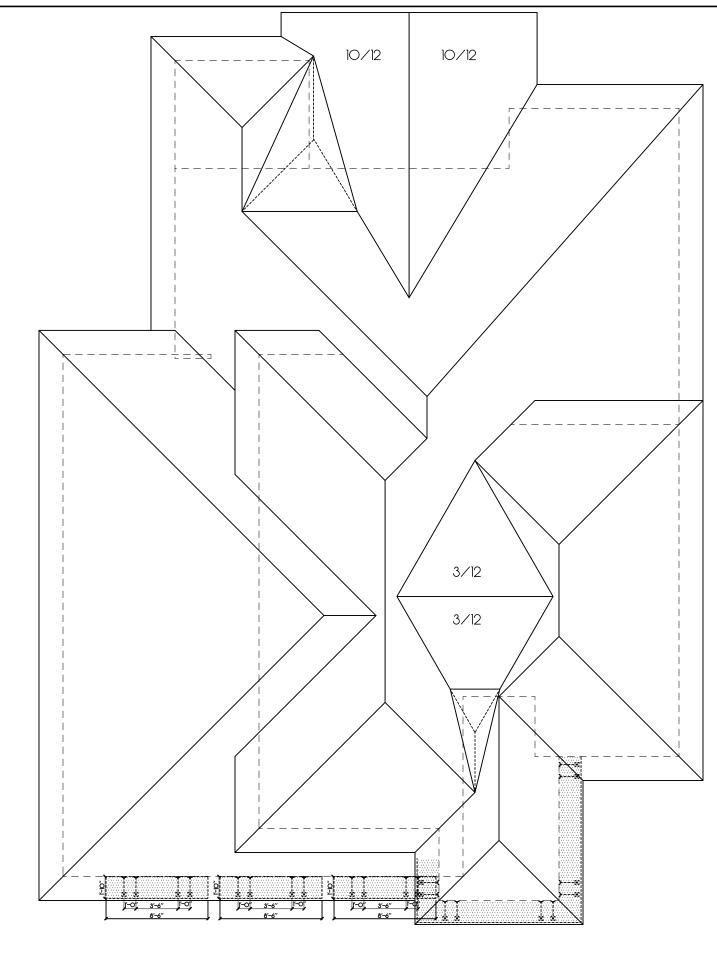


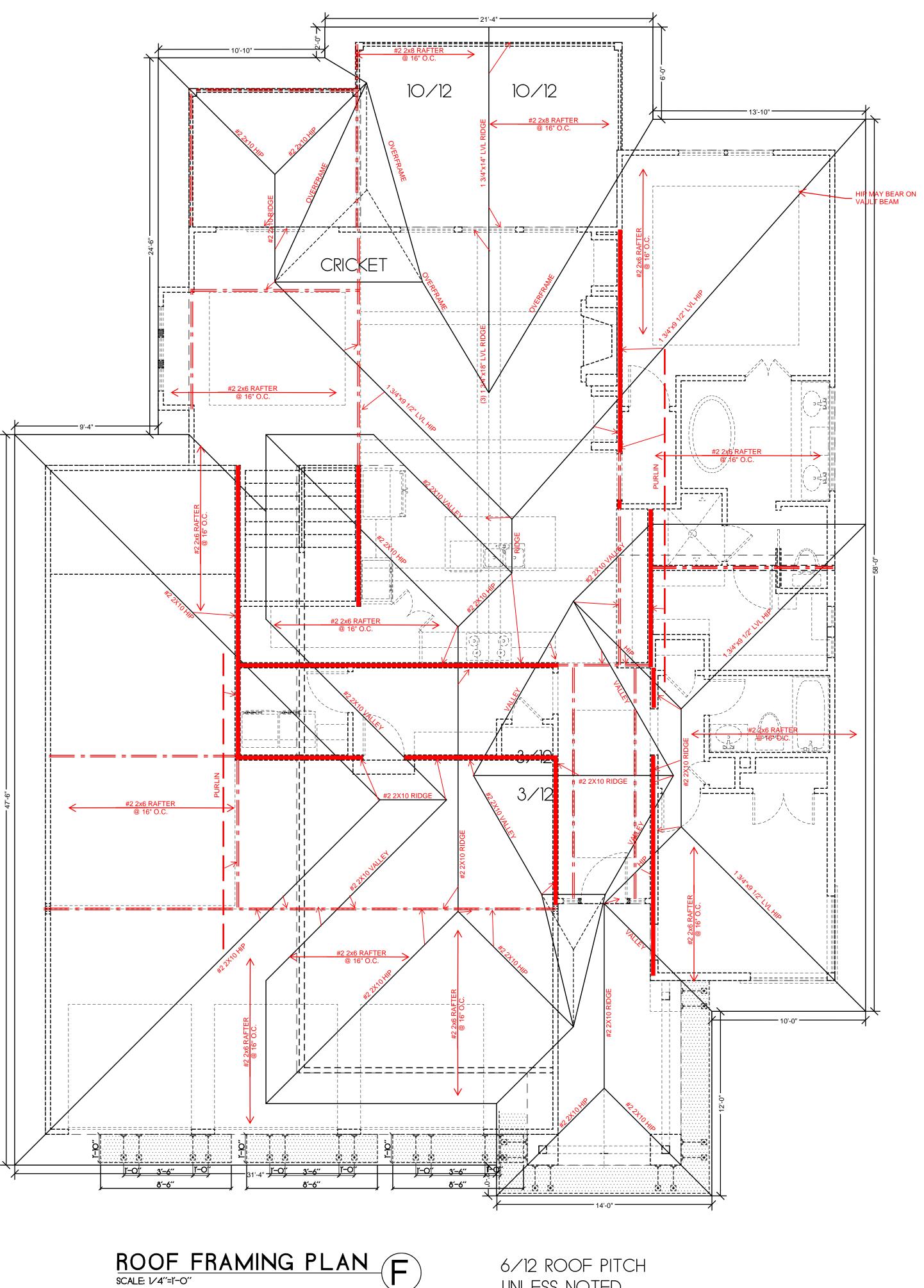
RING & DESIGN RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/16/2024



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<u>NOTES</u>

ROOF DESIGNED FOR LIGHT ROOF COVERING 30PSF TOTAL LOAD [10PSF DL, 20PSF LL (SL)]

RAFTERS (DOUG-FIR, OR EQUAL): SEE SPAN CHARTS BELOW

CODE MINIMUM

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24" O.C.	11'-11"
#2-2x6	@16" O.C.	14'-1"
#2-2x8	@24" O.C.	15'-1"
#2-2x8	@16" O.C.	18'-5"
#2-2x10	@24" O.C.	18'-5"
#2-2x10	@16" O.C.	22'-6"
NOTE: CODE MINI	MUM L/240 DEFLECT	ION

GREATER THAN CODE

RAFTERS	SPACING	MAX HORIZONTAL CLEARSPAN
#2-2x6	@24" O.C.	8'-6"
#2-2x6	@16" O.C.	9'-9"
#2-2x8	@24" O.C.	11'-3"
#2-2x8	@16" O.C.	12'-9"
#2-2x10	@24" O.C.	14'-3"
#2-2x10	@16" O.C.	16'-3"

DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD VAULTS TO BE 2x10 DEPTH

ALL RIDGES, HIPS, AND VALLEYS NOT MARKED SHALL BE (1) NOMINAL SIZE LARGER THAN THE INTERSECTING RAFTERS

PURLINS ARE 2x6 MIN. PURLIN STRUTS ARE AT 4'-0" O.C.

PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0" PURLINS STRUTS SHALL BE CONSTRUCTED IN A "T"

CONFIGURATION AND PER THE FOLLOWING CHART

PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8'-0"
(1) 2x4 & (1) 2x6	12'-0"
(1) 2x6 & (1) 2x8	20'-0"
(2) 2x6 & (1) 2x8	30'-0"
CONSULT ARCH./ENGR.	>30'-0"

-EACH END OF STRUT SHALL BE FASTENED WITH MIN. (3) 8d OR (2) 16d NAILS -RIDGE BRACES ARE SAME AS PURLIN BRACES; SPACING, SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE NOTE ABOVE) -HIP AND VALLEY BRACES ARE THE SAME AS PURLINS SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

SEE DETAILS 1, 5, 6, 7, 11, 12, 13, & 14 ON S-1.2 FOR ROOF FRAMING AND INSULATION OPTIONS

_____ ----- - PURLIN - LOAD BEARING WALL

= = = - LOAD BEARING BEAM/ GIRDER PER PLAN

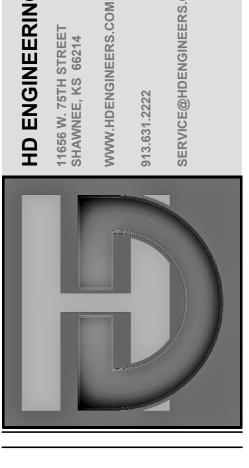
SEE DETAIL 12/S-1.2 FOR RAFTER TIE CONNECTION FOR CLG JOISTS PERPENDICULAR TO HIP RAFTERS

ALL RIDGES, HIPS, & VALLEYS SHALL BE FASTENED TO EXTERIOR WALLS, BEAMS, OR LOAD BEARING WALL TOP PLATE PER FRAME FASTENING SCHEDULE ON S-1.0, AND PER R802.11, ALL UPLIFT OVER 200# SHALL BE FASTENED AS SHOWN ON THIS PLAN SHEET

ALL RAFTERS SHALL BE FASTENED TO TOP PLATE WITH (3) 10d COMMON NAILS

IF ADDITIONAL HOLD DOWN STRAP REQUIRED: X=UPLIFT FORCE (POUNDS), REQUIRED SIMPSON HOLD-DOWN

☐ SIMPSON STRAP FASTENED TO STRUCTURAL HIP, VALLEY, OR RIDGE AND STRUT SUPPORT. MUST ALSO STRAP BOTTOM END OF STRUT TO BEAM/WALL BELOW WITH SAME SIZE STRAP



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SAB HOMES, INC.	2809 SW HEARTLAND RD. LEE'S SUMMIT, MO	
HD#:	477	'93

	C	DATE:	06/13/2024
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NO.	D. ISSUE/REVISION		Revision Date

PLANS DRAWN BY OTHERS

S-0.4

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	NAIL GUN		PENETRATION	AL	LOWABLE L	OADS (POUND	S)
FASTENER	NAILS/	WIRE GAGE	REQUIRED INTO MAIN	LATERAL STRENGTH		WITHDRAWA	
DESCRIPTION	WIRE DIAMETER	GAGE	MEMBER FOR LATERAL STRENGTH (INCHES)	SP	DF/L	SP	DF/L
16 GA. STAPLE	.063	16	1	51		36	32
15 GA. STAPLE	.072	15	1	64		42	37
14 GA. STAPLE	.080	14	1	75		46	41
6d COOLER NAIL							
6d SINKER NAIL	.092	13	1	46		27	23
6d BOX NAIL							
6d CASING NAIL	.099	12-1/2	1-1/8	61	55	31	24
7d COOLER NAIL							
6d COMMON NAIL							
8d COOLER NAIL							
8d SINKER NAIL	.113	11-1/2	1-1/4	79	72	35	28
8d BOX NAIL							
8d CASING NAIL							
6d RING SHANK NAIL							
6d SCREW SHANK NAIL			1-3/8	89			
8d RING SHANK NAIL	.120	11			81	41	32
8d SCREW SHANK NAIL							
10d COOLER NAIL							
10d SINKER NAIL	.128	10-1/2	1-1/2	89	81	36	31
12d SHORT							
10d BOX NAILS							
12d BOX NAILS	.128	10-1/2	1-1/2	101	93	40	31
10d CASING NAILS							
8d COMMON NAILS							
16d SHORT	.131	10-1/4	1-1/2	106	97	41	32
12d SINKERS							
16d BOX NAILS	.135	10	1-1/2	113	103	42	33
10d RING SHANK NAILS							
10d SCREW SHANK NAILS							
12d RING SHANK NAILS	.135	10	1-5/8	113	103	46	36
12d SCREW SHANK NAILS							
10d COMMON NAILS							
12d COMMON NAILS							
16d SINKER NAILS	.148	9	1-5/8	128	118	46	36
20d BOX NAILS							
30d BOX NAILS							
16d RING SHANK NAILS							
16d SCREW SHANK NAILS	.148	9	1-3/4	128	118	50	40
16d COMMON NAILS							L
40d BOX NAILS	.162	8	1-3/4	154	141	50	40
20d RING SHANK NAILS							
20d SCREW SHANK NAILS	.177	7	2-1/8	178	163	59	47
20d SINKER NAILS	.177	7	2-1/8	178	163	54	43
20d COMMON NAILS			2 1/0		100		UT
30d SINKER NAILS	.148	9	2-1/8	170	166	59	47

ALLOWABLE LOADS FOR PNEUMATIC OR

MINIMUM SHEATHING REQUIREMENTS

BUILDING COMPONENT	MATERIAL
ROOF SHEATHING	7/16" PLYWOOD
ROOF SHEATHING	1 x 4 #3 FURRING
FLOOR SHEATHING	3/4" T&G YELLOW PINE PLYWOOD
WALL COVERING	1/2" GYPSUM SHEATHING
CEILING COVERING	1/2" GYPSUM SHEATHING
EXTERIOR WALL	7/16" APA RATED SHEATHING
SHEATHING	RATED PANEL SIDING, RATED 16" O.C. 7/16" THICK

ALL SHEATHING MATERIALS TO BE APPLIED PERPENDICULAR TO JOISTS AND ENDS STAGGERED REFER TO TABLE R602.3(1) ON S-1.1 FOR FASTENING SCHEDULE

HIP/ VALLEY ALLOWABLE SPAN TABLE

ТҮРЕ	MAX. UNSUPPORTED SPAN						
TIPE	2x8	2x10	2x12	1 3/4"x9 1/2" LVL	1 3/4"x11 7/8" LVL		
HIP RAFTER	11'-3"	13'-3"	15'-2"	15'-8"	18'-2"		
VALLEY RAFTER	8'-11"	10'-6"	12'-0"	13'-2"	15'-3"		

NO JOIST HANGER NAILS ALLOWED FOR TOENAILS. NO GUN NAILS OR SCREWS ALLOWED IN CONNECTORS. TOENAILS SHALL ALWAYS BE A FULL 3" OR 3.5" NAIL. COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. 1/2" x 2" BOLTS SHOULD THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTIFIED INSPECTOR.

SEALS.

AREA.

GENERAL NOTES

PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE, ICC AS ADOPTED BY AHJ, AND ALL AMENDMENTS AS ADOPTED BY THE AHJ. IF ANY CHANGES OR DEVIATIONS ARE MADE FROM THESE PLANS THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITY AND THE ENGINEER TO EVALUATE THE CHANGES AND MAKE ANY APPROPRIATE MODIFICATIONS TO THE PLANS WHERE DISCREPANCIES EXIST BETWEEN THE STANDARD COMMENTS, NOTES FOR THE DESIGN PROFESSIONAL OR THE CODE, THE MOST RESTRICTIVE SHALL APPLY.

- FOUNDATION NOTES
- BASED ON ACTUAL SITE CONDITIONS. FOUNDATION WALLS SHALL BE DAMP-PROOFED PER IRC SECTION R406. PROVIDE A MINIMUM 4" PERFORATED DRAIN AROUND USABLE SPACE BELOW GRADE OR OTHER EQUIVALENT MATERIALS PER IRC SECTION 405.1. THE PIPE SHALL BE COVERED WITH NOT LESS THAN 6" OF WASHED GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT TO THE EXTERIOR BELOW THE FLOOR LEVEL OR TERMINATE
- IN A MINIMUM 20 GALLON SUMP PIT.
- FOUNDATION DESIGN SHALL BE BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF. FOOTINGS SHALL BE A MINIMUM OF 16" WIDE AND 8" DEEP WITH (2) #4 BARS CONTINUOUS, LOCATED A MINIMUM OF 3" CLEAR FROM THE BOTTOM. FOOTINGS SHALL BE A
- MINIMUM OF 36" BELOW GRADE FOR FROST PROTECTION. COLUMN PADS SHALL BE A MINIMUM OF 24"x24"x8" WITH (3) #4 BARS EACH WAY.
- FOUNDATION WALLS SHALL BE A MINIMUM OF 8" THICK WITH MINIMUM #4 BARS @ 24" O.C. HORIZONTAL AND VERTICAL WITH THE TOP BAR WITHIN 8" OF THE TOP OF THE WALL UNLESS NOTED OTHERWISE ON PLAN.
- REINFORCEMENT SHALL LAP A MINIMUM OF 24". INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.
- INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE BY A SEPARATION
- OF 1/2" CONCRETE FLOOR SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, OR CRUSHED STONE. BASEMENT SLABS SHALL HAVE A MINIMUM 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" AND SHALL BE PLACED BETWEEN THE FLOOR SLAB AND THE BASE COURSE.
- FLOOR SLABS SUPPORTED BY FILL CONSISTING OF MORE THAN 24" OF GRANULAR FILL OR 8" OF EARTH SHALL BE REINFORCED PER A SEPARATE ENGINEERING DESIGN. 12
- BASEMENT FOUNDATION SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE 13 CONCRETE AND SPACED NOT MORE THAN 3' ON CENTER AND WITHIN 12" OF EACH END OF THE PLATE SECTION PER IRC SECTION R403.1.6. FOUNDATION WINDOW WELLS FOR SECONDARY MEANS OF EGRESS SHALL PROVIDE A MINIMUM 3'x3' HORIZONTAL AREA.
- THE BASE OF ALL FOOTING EXCAVATIONS SHOULD BE FREE OF ALL WATER AND LOOSE MATERIAL PRIOR TO PLACING CONCRETE. CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATING SO THAT EXCESSIVE DRYING OR DISTURBANCE OF BEARING MATERIALS DOES NOT OCCUR. SHOULD THE MATERIALS AT
- BEARING LEVEL BECOME EXCESSIVELY DRY OR SATURATED, WE RECOMMEND THAT THE AFFECTED MATERIAL BE REMOVED PRIOR TO PLACING CONCRETE. IT IS RECOMMENDED THAT ALL FOOTING EXCAVATIONS BE EVALUATED AND TESTED BY A GEOTECHNICAL ENGINEER IMMEDIATELY PRIOR TO PLACEMENT OF FOUNDATION CONCRETE. UNSUITABLE AREAS IDENTIFIED AT THIS TIME SHOULD BE CORRECTED. CORRECTIVE PROCEDURES WOULD BE DEPENDENT UPON CONDITIONS ENCOUNTERED AND MAY INCLUDE THE DEEPENING OF FOUNDATION ELEMENTS, OR THE UNDERCUTTING OF UNSUITABLE MATERIALS AND REPLACEMENT

<u>STAIRWAY NOTES</u>

WITH ENGINEERED FILL.

- STAIRWAYS SHALL PROVIDE A MAXIMUM 7 3/4" RISE AND A MINIMUM 10" RUN. PROVIDE MINIMUM 36" GUARDRAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES, AND BALCONIES. PROVIDE MINIMUM 34" GUARDRAILS ON THE OPEN SIDES OF
- STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW. GUARDRAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERNS
- THAT DO NOT ALLOW PASSAGE OF A 4" DIAMETER SPHERE. EACH STAIRWAY OF 3 OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.
- HANDRAILS SHALL HAVE A CIRCULAR CROSS-SECTION OF 1 ¹/₄" MINIMUM TO 2" MAXIMUM OR ANOTHER APPROVED GRASPABLE SHAPE PER IRC SECTION R311.7.8.5.
- PROVIDE A MINIMUM 6'-8" OF HEADROOM CLEARANCE IN STAIRWAYS. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON THE
- ENCLOSURE SIDE. WINDERS SHALL PROVIDE A MINIMUM TREAD OF 6" AT ANY POINT WITHIN CLEAR WIDTH OF STAIRS. WINDER TREAD PROPORTION IS TO COMPLY WITH IRC SECTION R311.7.5.2.1.

GLAZING NOTES:

- GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS. INDIVIDUAL FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS AND WHIRLPOOLS, GLAZING IN FIXED OR OPERABLE PANELS EXCEEDING 9 S.F. AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36". IN DWELLING UNITS WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24" ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. OPERABLE
- SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF A 4" DIAMETER SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24" OF THE FINISHED FLOOR.

FRAMING NOTES

- ALL LUMBER SIZES ARE FOR DOUGLAS FIR-LARCH UNLESS NOTED OTHERWISE ALL HEADERS ARE TO BE A MINIMUM OF (2) #2 2x10'S UNLESS NOTED OTHERWISE
- BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS. ALL HEADERS/BEAMS ARE TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE
- INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS, SOLID BLOCKING FOR A MINIMUM OF (2) JOIST SPACES SHALL BE PROVIDED AT A MAXIMUM OF 4' ON CENTER TO
- TRANSFER LATERAL LOADS ON THE WALL TO THE FLOOR DIAPHRAGM. THE BLOCKING SHALL BE SECURELY NAILED TO THE JOISTS AND FLOORING. NAIL JOISTS AND BLOCKING TO SILL PLATE WITH (4) 10D NAILS.
- IF DUCTS ARE INSTALLED IN THE FIRST JOIST SPACE(S), NAIL 2x4'S FLAT AT 4' ON CENTER WITHIN THE JOIST SPACE(S) AND THEN PROVIDE SOLID BLOCKING, INSTALLED UPRIGHT, IN THE NEXT TWO JOIST SPACES. SECURE THE 2x4'S TO THE SILL PLATE WITH (4) 10D NAILS.
- ALL SILLS AND SLEEPERS SUPPORTED ON CONCRETE OR MASONRY AND FURRING ATTACHED TO CONCRETE OR MASONRY SHALL BE OF DECAY RESISTANT MATERIALS. JOISTS UNDER BEARING PARTITIONS SHALL BE SIZED TO CARRY THE DESIGN LOAD IN ACCORDANCE WITH IRC SECTION R502.4.
- JOISTS FRAMING FROM OPPOSITE SIDES OVER BEARING SUPPORTS SHALL LAP A MINIMUM OF 3" AND SHALL BE NAILED TOGETHER WITH MINIMUM 10D FACE NAILS. JOISTS FRAMING INTO A WOOD GIRDER OR BEAM SHALL BE SUPPORTED BY APPROVED FRAMING ANCHORS OR ON MINIMUM 2"x2" LEDGER STRIPS.
- HEADER AND TRIMMERS SHALL BE OF SUFFICIENT CROSS SECTION TO SUPPORT THE FLOOR FRAMING. TRIMMER JOISTS SHALL BE DOUBLED WHEN THE HEADER IS
- SUPPORTED MORE THAN 3' FROM THE TRIMMER JOIST BEARING. WHEN THE HEADER SPAN EXCEEDS 4', THE HEADER AND TRIMMER SHALL BE DOUBLED. JOISTS AT SUPPORTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" IN NOMINAL THICKNESS OR BY ATTACHMENT
- TO A HEADER, BAND, OR RIM JOIST OR TO AN ADJOINING STUD OR OTHERWISE PROVIDED WITH LATERAL SUPPORT TO PREVENT ROTATION. ALL WALL COVERINGS ARE TO COMPLY WITH IRC SECTIONS 702 AND 703.
- ALL RAFTER / COLLAR TIES ARE TO COMPLY WITH IRC SECTION 802. ALL RAFTERS ARE TO HAVE 2x4 COLLAR TIES @ 48" O.C. IN THE UPPER 1/3 OF DISTANCE BETWEEN THE CEILING AND ROOF
- BLOCKING BETWEEN JOISTS UNDER A PERPENDICULAR LOAD-BEARING WALL IS NOT REQUIRED. THE BOTTOM OF ALL FLOOR ASSEMBLIES SHALL BE PROVIDED WITH A 1/2" GYPSUM WALLBOARD MEMBRANE (IF REQUIRED BY LOCAL CODE).
- I-JOIST AND FLOOR TRUSS SYSTEMS SHALL BE FIRE PROTECTED PER IRC AS ADOPTED BY AHJ. STUDS SHALL BE CONTINUOUS FROM THE FLOOR TO THE ROOF / CEILING DIAPHRAGM PER IRC SECTION 602.3

CONCRETE NOTES:

CONCRETE SHALL BE AIR-ENTRAINED (5%-7%) WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS, 3000 PSI FOR BASEMENT AND FOUNDATION WALLS, AND 3500 PSI FOR PORCHES, CARPORTS AND GARAGE FLOOR SLABS.

- EMERGENCY EGRESS AND RESCUE NOTES:
- PROVIDE ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 S.F. WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21". IN ADDITION, THE OPENABLE PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 44" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP.
- PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA, AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE
- INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING. PROVIDE CARBON MONOXIDE ALARMS AS REQUIRED PER IRC. CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA. WHERE
- FUEL-BURNING APPLIANCES ARE LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED IN THE BEDROOM.

GARAGE NOTES:

- THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS OR SLOPE TO A TRENCH OR UNTRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE EXTERIOR ABOVE GRADE.
- DOORS BETWEEN THE GARAGE AND DWELLING MINIMUM 1 3/8" THICK SOLID WOOD, MINIMUM 1 3/8" THICK SOLID OR HONEY-COMB-CORE STEEL DOOR, OR 20-MINUTE FIRE-RATED EQUIPPED WITH A SELF-CLOSING DEVICE PER IRC SECTION R302.5.1.
- GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST LOADING PER DASMA 108 AND ASTM E 330-96 PER **IRC SECTION R301.2.1**
- THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE. THE FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH MINIMUM 5/8" TYPE X GYPSUM BOARD ON THE GARAGE CEILING. WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE, COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8" GYPSUM BOARD OR EQUIVALENT.
- GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING ATTACHED WITH 1 3/4"x0.120" NAILS AT 7" ON CENTER STAGGERED WITH (7) 3 1/4"x0.120" NAILS THROUGH THE JAMB INTO THE HEADER, MINIMUM 2x8
- HEADER FOR ATTACHMENT OF THE COUNTER BALANCE SYSTEM. ANY ATTACHED GARAGE TO THE MAIN HOUSE SHALL BE PROVIDED WITH A SINGLE HEAT DETECTOR. THE HEAT DETECTOR SHALL BE HARDWIRED AND INTERCONNECTED WITH THE HOUSEHOLD SMOKE ALARM SYSTEM. THE HEAT DETECTOR SHALL BE LISTED FOR THE AMBIENT ENVIRONMENT AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

MECHANICAL/INSULATION: BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.2 OR THE 2018 IECC. (SEE S-6.0 FOR MORE DETAILS)

ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW.

VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH 1/8" TO 1/4" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150th OF THE AREA OF SPACE VENTILATED. WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED, THE REQUIRED AREA MAY BE REDUCED TO 1/300th.

BUILDING COMPONENT	FASTEN TO	FASTEN WITH
	RIDGE / VALLEY / HIP	TOENAIL W/ (4) 16D, FACENAIL W/ (3) 16D
RAFTERS	PLATE	TOENAIL W/ (3) 10D
KAFIEKS	LEDGER STRIPS SUPPORTING JOISTS OR RAFTERS	FACENAIL W/ (3) 16D
	COLLAR TIE TO RAFTERS	FACENAIL W/ (3) 10D
	TOP PLATE	TOENAIL W/ (3) 8D @ EACH END
	WHERE CLG JST RUN PARALLEL TO RAFTERS FAC	ENAIL TO RAFTERS W/ (3) 10D MINIMUM
EILING JOISTS	LAPS OVER PARTITIONS	FACENAIL W/ (3) 10D
	BLOCKING BETWEEN JOISTS/RAFTERS TO TOP PLATE	TOENAIL W/ (3) 8D
	BUILT-UP BEAMS, 2" LUMBER LAYERS, FACENAIL OPPOSITE SIDES, (2) @ EACH END PLUS	10D @ 32" O.C. STAGGERED, TOP & BOTTOM, OPPOSITE SIDES
BEAMS	BUILT-UP BEAMS OF ENGINEERED LUMBER, FACE NAIL OPPOSITE SIDES	(2) ROWS @ 12" O.C.
	BUILT-UP HEADER, TWO PIECES W/ A 1/2" SPACER	16D @ 16" O.C. ALONG EDGES
	BUILT-UP HEADER, TWO PIECES W/ NO 1/2" SPACER	3" x 0.131" NAILS @ 12" O.C. ALONG EDGES
	BEARING	TOENAIL W/ (2) 18D @ EACH END
	RIM JOIST TO SILL OR TOP PLATE	TOENAIL W/ 8D COMMON OR 10D BOX @ 6" O.C.
	JOIST TO SILL OR GIRDER	TOENAIL W/ (3) 8D
	JOIST TO RIM JOIST	FACENAIL W/ (3) 16D
	BRIDGING TO JOIST	TOENAIL W/ (2) 8D
LOOR JOISTS	I-JOIST TO BEARING PLATE	TOENAIL W/ (2) 8D - ONE INTO EACH SIDE AT LEAST 1 1/2" FROM THE END
	RIM JOIST TO I-JOIST	FACENAIL W/ (2) 10D BOX - ONE INTO EACH FLANGE
	SOLE PLATE TO LSL RIM BOARD	16D BOX @ 12" O.C.
	SINGLE JOIST HANGERS*	10D FACENAILS AND TOENAILS
	DOUBLE JOIST HANGERS*	16D FACENAILS AND TOENAILS
	TOP AND SOLE PLATE TO STUD	END NAIL W/ (2) 16D
	STUD TO SOLE AND TOP PLATE	TOENAIL W/ (4) 8D
	DOUBLE TOP PLATES	FACENAIL W/ 16D @ 16" O.C.
	DOUBLE TOP PLATE LAP SPLICE	FACENAIL W/ (8) 16D
	TOP PLATE LAPS AND INTERSECTIONS	FACENAIL W/ (2) 16D
	DOUBLE STUDS	FACENAIL W/ 16D @ 24" O.C.
	BUILT-UP CORNER STUDS	FACENAIL W/ 16D - 2 ROWS @ 24" O.C.
	STEEL "X" BRACING	FACENAIL W/ (2) 16D IN EACH TOP AND BOTTOM PLATE AND (1) 8D PER STUD
	SOLE PLATE TO JOIST OR BLOCKING	FACENAIL W/ 16D @ 16" O.C.
WALLS	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PERPENDICULAR TO FRAMING	FACENAIL W/ (3) 16D @ 16" O.C. ALONG BRACED WALL PANEL
	TOP PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PERPENDICULAR TO FRAMING	TOENAIL W/ 8D @ 6" O.C. ALONG BRACED WALL PANEL
	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PARALLEL TO FRAMING, BLOCKING @ 16" O.C.	FACENAIL W/ (3) 16D @ 16" O.C. ALONG BRACED WALL PANEL AND AT EACH BLOCK
	TOP PLATE TO JOIST OR BLOCKING AT BRACED WALL LINES, PARALLEL TO FRAMING, BLOCKING @ 16" O.C.	TOENAIL W/ 8D @ 6" O.C. ALONG BRACED WALL PANEL AND AT EACH BLOCK
	NON-STRUCT. SIDING OVER STRUCT. SHEATHING	(1) 6D BOX IN EACH STUD
	FIBER-CEMENT PLANK SIDING	(1) 6D GALVANIZED IN EACH STUD
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FRAME FASTENING SCHEDULE

DUCT SEALING METHOD, PER 2018 IRC W1103.3.2

N1103.2.2 (R403.2.2) SEALING (MANDATORY) DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1 OF THIS CODE. **EXCEPTIONS**:

1. AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT

2. WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE, THREE SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT. 3. CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURE LESS THAN 2 INCHES OF WATER COLUMN (500 Pa) PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.

DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING:

1. POST CONSTRUCTION TEST: TOTAL LEAKAGE SHALL NOT BE LESS THAN OR EQUAL TO 4 CFM (113.3 L/MIN) PER 100FT² (9.29m²) OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. 2. ROUGH-IN TEST: TOTAL AIR LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM (113.3 L/MIN) PER 100FT²

(9.29m²) OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 Pa) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST, TOTAL AIR LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM (85 L/MIN) PER 100FT² (9.29m²) OF CONDITIONED FLOOR

EXCEPTION: THE TOTAL LEAKAGE IS NOT REQUIRED FOR DUCTS AND AIR HANDLERS LOCATED ENTIRELY WITHIN THE BUILDING THERMAL ENVELOPE.

THE CONTRACTUAL OBLIGATION OF THESE PLANS IS TO PROVIDE THE OWNER/BUILDER AND THE AHJ WITH A SET OF PLANS THAT MEET AHJ AND CODE REQUIREMENTS FOR A SINGLE SITE CONSTRUCTION PROJECT. UNLESS REQUESTED BY OUR CLIENT, CODE/AHJ MINIMUM DESIGNS WILL BE UTILIZED. ALSO, UNLESS REQUESTED BY THE OWNER, OUR FIRM CAN NOT AND WILL NOT BE AUTHORIZED TO VISIT THE SITE TO EVALUATE THE SITE OR ANY CONSTRUCTION FOR THIS PROJECT. IMPLEMENTATION

OF ALTERNATES TO THE DESIGNS INCLUDING BUT NOT LIMITED TO PIER DESIGNS, FOUNDATION ALTERATIONS, OR ANY STRUCTURAL CHANGES NOT PROVIDED BY HD ENGINEERING OR A PROFESSIONAL REFERRED BY HD ENGINEERING SHALL RELEASE HD ENGINEERING FROM ALL LIABILITY ASSOCIATED WITH THIS DESIGN. OUR FIRM HIGHLY RECOMMENDS THAT ANY SITE WITH GREATER THAN A 15% GRADE, ANY SITE WHERE A PREVIOUS STRUCTURE WAS LOCATED, OR ANY SITE WITH POTENTIAL FILL MATERIAL OR A POTENTIAL SOIL BEARING CAPACITY BELOW 1500 PSF SHOULD BE EVALUATED BY OUR FIRM OR AN HD ENGINEERING REFERRED GEOTECHNICAL FIRM PRIOR TO PLACING FOOTINGS. THE ATTACHED PLANS HAVE BEEN DESIGNED WITH THE UNDERSTANDING THAT OUR FIRM HAS NOT AND CAN NOT VISIT OR INSPECT THE SITE WITHOUT WRITTEN CONSENT/REQUEST OF THE OWNER/BUILDER. DUE TO THIS FACT, OUR FIRM CAN ONLY DESIGN THE ATTACHED PLANS

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TO CERTAIN CODE REQUIREMENTS WHICH ARE DETAILED THROUGHOUT THE PLAN AND ATTACHED DETAIL SHEETS, IF THE OWNER DESIRES GREATER THAN CODE

DESIGNS THAT REQUEST MUST BE MADE CLEARLY AND IN WRITING PRIOR TO ENGINEERING OF THE PLAN.

DUE TO THE WIDE VARIETY OF SOIL CONDITIONS, PLASTICITY INDEXES, AND SOIL BEARING CAPACITIES IN OUR AREA, OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY HD ENGINEERING OR AN HD ENGINEERING REFERRED GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF ANY "STANDARD" FOUNDATIONS.

THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION RESIDENTIAL FOUNDATION STANDARD IN LIEU OF ENGINEERING REPORT REQUIREMENTS

	<u>IABLE R602.3(1</u>) FASTENING SCHEDU			ITINUED TABLE RE	002.3(1) FASTE	NING SC	HEDULE		
м	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING AND LOCATION	ITEM DESCR	RIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FA	STENER ^{a, b, c}	SPACING OF		
								EDGES (INCHES) ^h INTERMEDI/ SUPPORTS ^{c, e} (II		
	I	ROOF 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR		WOOD STRUCTU	RAL PANELS, SUBFLOOR, ROOF AND INTERIOR [SEE TABLE R602.3(3) FOR WOOD STRUC				RAMING	
	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	3-8D COMMON (2 1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR								
	CEILING JOISTS TO PLATE CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER	3-3" x 0.131" NAILŚ	PER JOIST, TOE NAIL	30	³ / ₈ " - ¹ / ₂ "	6D COMMON (2" x 0.113") NAIL (S 8D COMMON (2 ¹ / ₂ " x 0.131") NA RSRS-01 (2 ³ / ₈ " x 0.113") NA	IAIL (ROOF); OR IAIL (ROOF)	6	12 ^f	
	PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.5.2) CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) (SEE SECTION R802.5.2 AND TABLE R802.5.2)	4-3" x 0.131" NAILS TABLE R802.5.2	FACE NAIL	31 32	¹⁹ / ₃₂ " - 1" 1 ¹ / ₈ " - 1 ¹ / ₄ "	8D COMMON NAIL (2 ¹ /2" x RSRS-01 (2 ³ / ₈ " x 0.113") N/ 10D COMMON (3" x 0.148" 8D (2 ¹ / ₂ " x 0.131") DEFOR	AIL (RÓOF) ^j ") NAIL; OR	6	12 ^f 12	
	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" x 20 GA. RIDGE STRAP TO RAFTER	4-10D BOX (3" x 0.128"); OR 3-10D COMMON (3" x 0.148"); OR	FACE NAIL EACH RAFTER			THER WALL SHEATHING [®]				
	RAFTER OR ROOF TRUSS TO PLATE	4-3" x 0.131" NAILS 3-16D BOX NAILS (3 ¹ / ₂ " x 0.135"); OR 3-10D COMMON NAILS (3" x 0.148"); OR 4-10D BOX (3" x 0.128"); OR	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS ⁱ	34 ²⁵ / ₃₂ " STRUCTUR	AL CELLULOSIC FIBERBOARD SHEATHING RAL CELLULOSIC FIBERBOARD SHEATHING 1/2" GYPSUM SHEATHING ^d	OR 1 ¹ / ₄ " LONG 16 GA. STAPLE WIT 1 ³ / ₄ " GALVANIZED ROOFING NAIL, ⁷ OR 1 ¹ / ₂ " LONG 16 GA. STAPLE WIT 1 ¹ / ₂ " GALVANIZED ROOFING	7/16" OR 1" CROWN 7/16" HEAD DIAMETER, 1H 7/16" OR 1" CROWN	3	6	
	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF	4-3" x 0.131" NAILS 4-16D (3 ¹ / ₂ " x 0.135"); OR 3-10D COMMON (3" x 0.148"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	TOE NAIL		5/8" GYPSUM SHEATHING	GALVANIZED, 1 ¹ / ₂ " LONG; 1 ¹ / ₄ " SCF 1 ³ / ₄ " GALVANIZED ROOFING GALVANIZED, 1 ⁵ / ₈ " LONG; 1 ⁵ / ₈ " SCF	NAIL; STAPLE	7	7	
	RAFTER TO MINIMUM 2" RIDGE BEAM	3-16D BOX (3 ¹ / ₂ " x 0.135"); OR 2-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 3-10D BOX (3 "x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL		WOOD STRUCTURAL PANELS, C	OMBINATION SUBFLOOR UNDERLAY	· ·			
		WALL		37	³ / ₄ " AND LESS	6D DEFORMED (2" x 0.120 8D COMMON (2 ¹ / ₂ " x 0.1		6	1	
		16D COMMON (3 ¹ / ₂ " x 0.162")	24" O.C. FACE NAIL	38	⁷ /8" - 1"	8D COMMON (2 1/2 x 0.131 8D DEFORMED (2 1/2" x 0.131 8D DEFORMED (2 1/2" x 0.	1") NAIL; OR	6	1	
	STUD TO STUD (NOT BRACED WALL PANELS)	10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	16" O.C. FACE NAIL	39	1 ¹ / ₈ " - 1 ¹ / ₄ "	10D COMMON (3" x 0.148" 8D DEFORMED (2 1/2" x 0.	") NAIL; OR	6	1	
	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING	16D BOX (3 ¹ / ₂ " x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL					L		
	WALL CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL		TABI	<u>_E R602.3(2)</u>				
		16D COMMON (3 1/2" x 0.162")	16" O.C. EACH EDGE FACE NAIL	Δι	TERNATE ATTACH)2 3(1)		
	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16D BOX (3 ¹ / ₂ " x 0.135")	12" O.C. EACH EDGE FACE NAIL					<u>, 210 (1)</u>		
		5-8D BOX (2 ¹ / ₂ " x 0.113"); OR		NOMINAL MATERIAL			SPA	ACING [©] OF FASTENERS	S	
	CONTINUOUS HEADER TO STUD	4-8D COMMON (2 1/2" x 0.131"); OR 4-10D BOX (3" x 0.128")	TOE NAIL	THICKNESS (INCHES)	DESCRIPTION ^{a, b} OF FASTENER	AND LENGTH (INCHES)	EDGES (INCHES)	INTERMEDIATE SUPP	PORTS (IN	
		16D COMMON (3 1/2" x 0.162")	16" O.C. FACE NAIL	WOOD STRUCT	FURAL PANELS SUBFLOOR, ROOF ^g AND WALL	SHEATHING TO FRAMING AND PARTI	ICLEBOARD WALL SH	EATHING TO FRAMIN	Gf	
	TOP PLATE TO TOP PLATE	10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL		STAPLE 15 GA	A. 1 ³ /4	4	8		
		8-16D COMMON (3 1/2" x 0.162"); OR 12-16D BOX (3 1/2" x 0.135"); OR	FACE NAIL ON EACH SIDE OF END JOINT	UP TO ¹ / ₂	0.097 - 0.099 NA	NIL 2 ¹ /4	3	6		
	DOUBLE TOP PLATE SPLICE	12-10D BOX (3 "x 0.128"); OR 12-3" x 0.131" NAILS	(MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)		STAPLE 16 GA	A. 1 ³ / ₄	3	6		
	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	16D COMMON (3 ¹ / ₂ " x 0.162")	16" O.C. FACE NAIL		0.113 NAIL	2	3	6		
	(NOT AT BRACED WALL PANELS)	16D BOX (3 ¹ / ₂ " x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL	¹⁹ / ₃₂ AND ⁵ / ₈	STAPLE 15 AND	16 GA. 2	4	8		
		3-16D BOX (3 ¹ / ₂ " x 0.135"); OR	3 EACH 16" O.C. FACE NAIL	102 / 110 /0	0.097 - 0.099 NA	NIL 2 ¹ /4	4	8		
	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	2-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 4-3" x 0.131" NAILS	2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL		STAPLE 14 G		4	8		
		4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-16D BOX (3 ¹ / ₂ " x 0.135"); OR			STAPLE 15 GA		3	6		
	TOP OR BOTTOM PLATE TO STUD	4-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	TOE NAIL	²³ / ₃₂ AND ³ / ₄	0.097 - 0.099 NA	· · · · · · · · · · · · · · · · · · ·	4	8		
		3-16D BOX (3 ¹ / ₂ " x 0.135"); OR 2-16D COMMON (3 ¹ / ₂ " x	END NAIL		STAPLE 16 G		4	8		
		0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 3-10D BOX (3" x 0.128"); OR			STAPLE 10 G		4	0		
	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16D COMMON (3 ¹ / ₂ " x 0.162"); OR 3-3" x 0.131" NAILS	FACE NAIL		0.113 NAIL 2			6		
		3-8D BOX (2 1/2" x 0.113"); OR		1	STAPLE 15 GA		3			
	1" BRACE TO EACH STUD AND PLATE	2-8D COMMON (2 1/2" x 0.131"); OR 2-10D BOX (3" x 0.128"); OR	FACE NAIL		0.097 - 0.099 NA		4	8		
		2 STAPLES 1 ³ / ₄ " 3-8D BOX (2 ¹ / ₂ " x 0.113"); OR					SPA	ACING° OF FASTENERS	S	
	1" x 6" SHEATHING TO EACH BEARING	2-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 2-10D BOX (3" x 0.128"); OR	FACE NAIL	NOMINAL MATERIAL THICKNESS (INCHES)	DESCRIPTION ^{a, b} OF FASTENER	AND LENGTH (INCHES)	EDGES (INCHES)	BODY OF PANEL		
		2 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG 3-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x				OD-HARDBOARD-PARTICLEBOARD ⁻ -		BODT OF TAREE		
		0.131"); OR 3-10D BOX (3" x 0.128"); OR				FIBER-CEMENT				
		3 STAPLES 1" CROWN 16 GA 1 $3/4$ " LONG			3D, CORROSION-RESISTANT	, RING SHANK NAILS	3	6		
	1" x 8" AND WIDER SHEATHING TO EACH BEARING	3 STAPLES, 1" CROWN, 16 GA., 1 ³ /4" LONG WIDER THAN 1" x 8"	FACE NAIL					6		
	1" x 8" AND WIDER SHEATHING TO EACH BEARING	WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128");	FACE NAIL		(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON	IG, ³ / ₄ CROWN	3	0		
	1" x 8" AND WIDER SHEATHING TO EACH BEARING	WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG	FACE NAIL	1/4	(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA	IG, ³ /4 CROWN HER THAN TILE) METER CORROSION-RESISTANT	3	8		
	1" x 8" AND WIDER SHEATHING TO EACH BEARING	WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG FLOOR 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR	FACE NAIL	1/4	(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 ¹ / ₄ LONG, NO. 8 x .375 HEAD DIAMETER,	IG, ³ /4 CROWN HER THAN TILE) METER CORROSION-RESISTANT OOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS	3 8 8	8		
	1" x 8" AND WIDER SHEATHING TO EACH BEARING JOIST TO SILL, TOP PLATE OR GIRDER	WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG FLOOR 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR	FACE NAIL TOE NAIL	1/4	(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC	IG, ³ /4 CROWN HER THAN TILE) METER CORROSION-RESISTANT OFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NSH)	3 8 8	8		
	JOIST TO SILL, TOP PLATE OR GIRDER	WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG FLOOR 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL	1/4	(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 ¹ / ₄ LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT OOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS IISH) PLYWOOD NK NAIL-MINIMUM	3 8 8 8	8		
		WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG FLOOR 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 8D BOX (2 ¹ / ₂ " x 0.113") 8D COMMON (2 ¹ / ₂ " x 0.131"); OR 10D BOX (3" x 0.128"); OR	TOE NAIL 4" O.C. TOE NAIL	1/4 1/4 AND 5/16	(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 ¹ / ₄ LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 ¹ / ₄ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT OFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER	3 8 8 8 3 3	8 8 6 7		
	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE	WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG FLOOR 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 8D BOX (2 ¹ / ₂ " x 0.131"); OR 10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS 3-8D BOX (2 ¹ / ₂ " x 0.113"); OR	TOE NAIL	1/4 AND 5/16	(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 ¹ / ₄ LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 ¹ / ₄ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA STAPLE 18 GA., ⁷ / ₈ , ³ / ₁₆ (1 ¹ / ₄ RING OR SCREW SHA	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT OFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NSH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM	3 8 8 8 3 2 6	8 8 6 5		
	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE	$\begin{array}{c} \mbox{WIDER THAN 1" x 8"} \\ \mbox{4-8D BOX (2 ^{1}/_{2}" x 0.113"); OR 3-8D COMMON (2 ^{1}/_{2}" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ^{3}/_{4}" LONG FLOOR\begin{array}{c} \mbox{4-8D BOX (2 ^{1}/_{2}" x 0.113"); OR 3-8D COMMON (2 ^{1}/_{2}" x 0.131"); OR 3-8D COMMON (2 ^{1}/_{2}" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS\begin{array}{c} \mbox{8D BOX (2 ^{1}/_{2}" x 0.113"); OR 3-8D COMMON (2 ^{1}/_{2}" x 0.113"); OR 3-8D BOX (2 ^{1}/_{2}" x 0.113")\begin{array}{c} \mbox{8D BOX (2 ^{1}/_{2}" x 0.113"); OR 10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS 3-8D BOX (2 ^{1}/_{2}" x 0.113"); OR 3-8D BOX (2 ^{1}/_{2}" x 0.113"); OR 3-8D BOX (2 ^{1}/_{2}" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-$	TOE NAIL 4" O.C. TOE NAIL		(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 ¹ / ₄ LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 ¹ / ₄ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA STAPLE 18 GA., ⁷ / ₈ , ³ / ₁₆ O 1 ¹ / ₄ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA 1 ¹ / ₂ RING OR SCREW SHA	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT DOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM	3 8 8 8 3 2 6 6	8 8 6 5 8 ^e 8		
	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	WIDER THAN 1" x 8" 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 $3/4$ " LONG FLOOR 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 8D BOX (2 $1/2$ " x 0.113") 8D COMMON (2 $1/2$ " x 0.131"); OR 10D BOX (3" x 0.128"); OR 3-8D BOX (2 $1/2$ " x 0.113") 8D COMMON (2 $1/2$ " x 0.131"); OR 3-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D BOX (2 $1/2$ " x 0.131"); OR 3-8D BOX (2 $1/2$ " x 0.131"); OR 3-8D BOX (2 $1/2$ " x 0.131"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR	TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL	1/4 AND 5/16	(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 ¹ / ₄ LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 ¹ / ₄ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA 11 ¹ / ₄ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA 11 ¹ / ₂ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA	IG, ³ /₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT DOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS IISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER	3 8 8 8 3 2 6 6 6 6	8		
	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	WIDER THAN 1" x 8" 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG FLOOR 4-8D BOX (2 ¹ / ₂ " x 0.113"); OR 3-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 8D BOX (2 ¹ / ₂ " x 0.113") 8D COMMON (2 ¹ / ₂ " x 0.131"); OR 10D BOX (3" x 0.128"); OR 3'' x 0.131" NAILS 3-8D BOX (2 ¹ / ₂ " x 0.113"); OR 2-8D COMMON (2 ¹ / ₂ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 ³ / ₄ " LONG FLOOR 3-16D BOX (3 ¹ / ₂ " x 0.135"); OR	TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL	¹ / ₄ AND ⁵ / ₁₆ ¹¹ / ₃₂ , ³ / ₈ , ¹⁵ / ₃₂ AND ¹ / ₂	(FINISHED FLOORING OT STAPLE 18 GA., ⁷ / ₈ LON (FINISHED FLOORING OT 1 ¹ / ₄ LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 ¹ / ₄ LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 ¹ / ₄ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA STAPLE 18 GA., ⁷ / ₈ , ³ / ₁₆ O 1 ¹ / ₄ RING OR SCREW SHA 12 ¹ / ₂ GA. (0.099") SHA 1 ¹ / ₂ RING OR SCREW SHA	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT DOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS IISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹ / ₂	3 8 8 3 2 6 6 6 6 6	8 8 6 5 8 ^e 8 8		
	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1" x 6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER	WIDER THAN 1" x 8" 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 $3/4$ " LONG FLOOR 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (2 $1/2$ " x 0.113") 8D BOX (2 $1/2$ " x 0.113") STAPLES, 1" CROWN, 10 BOX (3" x 0.128"); OR 3-10D BOX (3 " x 0.128"); OR 3-10D BOX (3 " x 0.128"); OR 3-16D BOX (3 $1/2$ " x 0.135"); OR	TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL BLIND AND FACE NAIL	¹ / ₄ AND ⁵ / ₁₆ ¹¹ / ₃₂ , ³ / ₈ , ¹⁵ / ₃₂ AND ¹ / ₂	(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 16 G/	IG, ³ / ₄ CROWN HER THAN TILE) WETER CORROSION-RESISTANT DOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹ / ₂ HARDBOARD ^f	3 8 8 3 2 6 6 6 6 6	8		
	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	WIDER THAN 1" x 8" 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 $3/4$ " LONG FLOOR 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 8D BOX (2 $1/2$ " x 0.113") 8D BOX (2 $1/2$ " x 0.113") 8D BOX (2 $1/2$ " x 0.113"); OR 3-10D BOX (2 $1/2$ " x 0.131"); OR 3-30 BOX (2 $1/2$ " x 0.131"); OR 3-8D BOX (2 $1/2$ " x 0.131"); OR 3-8D BOX (2 $1/2$ " x 0.131"); OR 3-8D BOX (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 $3/4$ " LONG FLOOR 3-16D BOX (3 $1/2$ " x 0.135"); OR 2-16D COMMON (3 $1/2$ " x 0.135"); OR 2-16D COMMON (3 $1/2$ " x 0.135"); OR 2-16D COMMON (3 $1/2$ " x 0.162") 3-16D BOX (3 $1/2$ " x 0.162") 3-16D BOX (3 $1/2$ " x 0.162") 3-16D COMMON (TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL	1/4 AND ⁵ / ₁₆ 11/ ₃₂ , ³ / ₈ , ¹⁵ / ₃₂ AND ¹ / ₂ 19/ ₃₂ , ⁵ / ₈ , ²³ / ₃₂ AND ³ / ₄	(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 16 G/	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT DOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹ / ₂ HARDBOARD ^f NDERLAYMENT NAIL	3 8 8 3 2 6 6 6 6 6 6	8		
	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1" x 6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER	WIDER THAN 1" x 8" WIDER THAN 1" x 8" 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR OR 4 STAPLES, 1" CROWN, 16 GA., 1 $3/4$ " LONG FLOOR 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (2 $1/2$ " x 0.113") 8D BOX (2 $1/2$ " x 0.113") BOX (2 $1/2$ " x 0.113"); OR 3-10D BOX (2 $1/2$ " x 0.113") 8D BOX (2 $1/2$ " x 0.113"); OR 3-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D BOX (2 $1/2$ " x 0.113"); OR 3-10D BOX (3" x 0.128"); OR 3-16D BOX (3 $1/2$ " x 0.135"); OR 2-16D COMMON (3 $1/2$ " x 0.135"); OR 3-16D BOX (3 $1/2$ " x 0.135"); OR 3-16D COMMON (3 $1/2$ " x 0.162") 3-16D COMMON (3 $1/2$ " x 0.162"); OR	TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL BLIND AND FACE NAIL	¹ / ₄ AND ⁵ / ₁₆ ¹¹ / ₃₂ , ³ / ₈ , ¹⁵ / ₃₂ AND ¹ / ₂	(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAI STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAI 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAI 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAI 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAI 1 1/2 LONG RING-GROOVED U 4D CEMENT-COATED	IG, ³ /₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT DOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹ / ₂ HARDBOARD ^f NDERLAYMENT NAIL SINKER NAIL	3 8 8 3 2 6 6 6 6 6 6 6 6 6 6	8		
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	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1" x 6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM-FLOOR AND ROOF) BAND OR RIM JOIST TO JOIST	WIDER THAN 1" x 8" 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 $3/4$ " LONG FLOOR 4-8D BOX (2 $1/2$ " x 0.113"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 8D BOX (2 $1/2$ " x 0.113") 8D BOX (2 $1/2$ " x 0.113") 8D BOX (2 $1/2$ " x 0.113"); OR 3-10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS 3-8D BOX (2 $1/2$ " x 0.113"); OR 10D BOX (3" x 0.128"); OR 3-8D BOX (2 $1/2$ " x 0.131"); OR 3-8D BOX (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 2-8D COMMON (2 $1/2$ " x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-10D BOX (3 $1/2$ " x 0.135"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 $3/4$ " LONG FLOOR 3-16D BOX (3 $1/2$ " x 0.135"); OR 2-16D COMMON (3 $1/2$ " x 0.135"); OR 2-16D COMMON (3 $1/2$ " x 0.162") 3-16D BOX (3 $1/2$ " x 0.135"); OR 2-16D COMMON (3 $1/2$ " x 0.162") 3-16D COMMON (3 $1/2$ " x 0.162") <td colspan<="" td=""><td>TOE NAIL 4" O.C. TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL BLIND AND FACE NAIL BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL END NAIL NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED.</td><td>1/4 AND ⁵/₁₆ 11/₃₂, ³/₈, ¹⁵/₃₂ AND ¹/₂ 19/₃₂, ⁵/₈, ²³/₃₂ AND ³/₄</td><td>(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAN STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAN 12 1/2 GA. (0.099") SHAN 12 1/2 GA. (0.099") SHAN STAPLE 16 G/ 1 1/2 LONG RING-GROOVED U 4D CEMENT-COATED STAPLE 18 GA., 7/8 LONG (1</td><td>IG, ³/₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT OOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS IISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹/₂ HARDBOARD^f NDERLAYMENT NAIL SINKER NAIL PLASTIC COATED) PARTICLEBOARD</td><td>3 8 8 3 2 6 6 6 6 6 6 6 6 6 3</td><td>8</td><td></td></td>	<td>TOE NAIL 4" O.C. TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL BLIND AND FACE NAIL BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL END NAIL NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED.</td> <td>1/4 AND ⁵/₁₆ 11/₃₂, ³/₈, ¹⁵/₃₂ AND ¹/₂ 19/₃₂, ⁵/₈, ²³/₃₂ AND ³/₄</td> <td>(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAN STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAN 12 1/2 GA. (0.099") SHAN 12 1/2 GA. (0.099") SHAN STAPLE 16 G/ 1 1/2 LONG RING-GROOVED U 4D CEMENT-COATED STAPLE 18 GA., 7/8 LONG (1</td> <td>IG, ³/₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT OOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS IISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹/₂ HARDBOARD^f NDERLAYMENT NAIL SINKER NAIL PLASTIC COATED) PARTICLEBOARD</td> <td>3 8 8 3 2 6 6 6 6 6 6 6 6 6 3</td> <td>8</td> <td></td>	TOE NAIL 4" O.C. TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL BLIND AND FACE NAIL BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL END NAIL NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED.	1/4 AND ⁵ / ₁₆ 11/ ₃₂ , ³ / ₈ , ¹⁵ / ₃₂ AND ¹ / ₂ 19/ ₃₂ , ⁵ / ₈ , ²³ / ₃₂ AND ³ / ₄	(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAN STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHAN 12 1/2 GA. (0.099") SHAN 12 1/2 GA. (0.099") SHAN STAPLE 16 G/ 1 1/2 LONG RING-GROOVED U 4D CEMENT-COATED STAPLE 18 GA., 7/8 LONG (1	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT OOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS IISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹ / ₂ HARDBOARD ^f NDERLAYMENT NAIL SINKER NAIL PLASTIC COATED) PARTICLEBOARD	3 8 8 3 2 6 6 6 6 6 6 6 6 6 3	8	
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TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL FACE NAIL BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL END NAIL NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED. 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES</td><td>1/4 AND ⁵/₁₆ 11/₃₂, ³/₈, ¹⁵/₃₂ AND ¹/₂ 19/₃₂, ⁵/₈, ²³/₃₂ AND ³/₄</td><td>(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 3 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 16 G/ 1 1/2 LONG RING-GROOVED U 4D CEMENT-COATED STAPLE 18 GA., 7/8 LONG (I 4D RING-GROOVED UNDE STAPLE 18 GA., 7/8 LONG (I 6D RING-GROOVED UNDE</td><td>IG, ³/₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT DOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NSH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹/₂ HARDBOARD[†] NDERLAYMENT NAIL G, ³/₁₆ CROWN ERLAYMENT NAIL</td><td>3 8 8 3 2 6 6 6 6 3 3 3 3 3 3 3 3 3 3 3 6 6 6</td><td>8</td><td></td></td>	<td>TOE NAIL 4" O.C. TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL FACE NAIL BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL END NAIL NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED. 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES</td> <td>1/4 AND ⁵/₁₆ 11/₃₂, ³/₈, ¹⁵/₃₂ AND ¹/₂ 19/₃₂, ⁵/₈, ²³/₃₂ AND ³/₄</td> <td>(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 3 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 16 G/ 1 1/2 LONG RING-GROOVED U 4D CEMENT-COATED STAPLE 18 GA., 7/8 LONG (I 4D RING-GROOVED UNDE STAPLE 18 GA., 7/8 LONG (I 6D RING-GROOVED UNDE</td> <td>IG, ³/₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT DOFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS NSH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹/₂ HARDBOARD[†] NDERLAYMENT NAIL G, ³/₁₆ CROWN ERLAYMENT NAIL</td> <td>3 8 8 3 2 6 6 6 6 3 3 3 3 3 3 3 3 3 3 3 6 6 6</td> <td>8</td> <td></td>	TOE NAIL 4" O.C. TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL FACE NAIL BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL END NAIL NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED. 24" O.C. 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	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1" x 6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM-FLOOR AND ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	WIDER THAN 1" x 8" 4-8D BOX (2 $1/2^* \times 0.113^*$); OR 3-8D COMMON (2 $1/2^* \times 0.128^*$); OR 4 STAPLES, 1" CROWN, 16 GA., 1 $3/4^*$ LONG FLOOR 4-8D BOX (2 $1/2^* \times 0.113^*$); OR 3-8D COMMON (2 $1/2^* \times 0.131^*$); OR 3-10D BOX (3 $* \times 0.128^*$); OR 3-10D BOX (3 $* \times 0.128^*$); OR 3-3" $\times 0.131^*$ NAILS 8D BOX (2 $1/2^* \times 0.113^*$); OR 3-10D BOX (2 $1/2^* \times 0.113^*$); OR 3-8D BOX (2 $1/2^* \times 0.131^*$); OR 3-8D BOX (2 $1/2^* \times 0.131^*$); OR 3-10D BOX (3 $* \times 0.128^*$); OR 3-10D BOX (3 $* \times 0.128^*$); OR 2-8D COMMON (2 $1/2^* \times 0.135^*$); OR 2-16D COMMON (2 $1/2^* \times 0.135^*$); OR 2-16D COMMON (3 $1/2^* \times 0.135^*$); OR 2-16D COMMON (3 $1/2^* \times 0.162^*$) 3-16D BOX (3 $* \times 0.128^*$); OR 4-10D BOX (3 $* \times 0.128^*$); OR 4-3" $\times 0.131^*$ NAILS; OR 4-3" $\times 0.131^*$ NAILS; OR 4-3" $\times 0.131^*$ NAILS; OR 4-3" $\times 0.131^*$ NAILS; OR 3-10D BOX (3" $\times 0.128^*$); OR 3-10D BOX (3 $1/2^* \times 0.135^*$); OR 3-10D BOX (3" $\times 0.128^*$); OR	TOE NAIL 4" O.C. TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL FACE NAIL BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL END NAIL NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED. 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE AT EACH JOIST OR RAFTER, FACE NAIL	1/4 AND ⁵ / ₁₆ 11/ ₃₂ , ³ / ₈ , ¹⁵ / ₃₂ AND ¹ / ₂ 19/ ₃₂ , ⁵ / ₈ , ²³ / ₃₂ AND ³ / ₄	(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 3 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 3 STAPLE 18 GA., 7/8, 3/16 G 1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 3 STAPLE 16 G/ 1 1/2 LONG RING-GROOVED U 4D CEMENT-COATED STAPLE 18 GA., 7/8 LONG (1 4D RING-GROOVED UNDE STAPLE 18 GA., 7/8 LONG (1 6D RING-GROOVED UNDE STAPLE 18 GA., 1 1/8 LO	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT OFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS ISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹ / ₂ HARDBOARD ^f NDERLAYMENT NAIL SINKER NAIL PLASTIC COATED) PARTICLEBOARD ERLAYMENT NAIL G, ³ / ₁₆ CROWN ERLAYMENT NAIL	3 8 8 3 2 6 6 6 6 3 3 3 3 3 6 3 3 3 3 3 3 3 6 3 3 6 3 3 3 3	8 8 8 6 6 6 6 6 6 6 10 6		
	JOIST TO SILL, TOP PLATE OR GIRDER RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO) 1" x 6" SUBFLOOR OR LESS TO EACH JOIST 2" SUBFLOOR TO JOIST OR GIRDER 2" PLANKS (PLANK & BEAM-FLOOR AND ROOF) BAND OR RIM JOIST TO JOIST BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	WIDER THAN 1" x 8" 4-8D BOX (2 $1/2^* \times 0.113^*$); OR 3-8D COMMON (2 $1/2^* \times 0.131^*$); OR 3-10D BOX (3" x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 $3/4^*$ LONG FLOOR 4-8D BOX (2 $1/2^* \times 0.113^*$); OR 3-8D COMMON (2 $1/2^* \times 0.131^*$); OR 3-8D COMMON (2 $1/2^* \times 0.131^*$); OR 3-8D COMMON (2 $1/2^* \times 0.131^*$); OR 3-30 COMMON (2 $1/2^* \times 0.131^*$); OR 3-30 COMMON (2 $1/2^* \times 0.131^*$); OR 3-30 COMMON (2 $1/2^* \times 0.131^*$); OR 3-8D BOX (2 $1/2^* \times 0.131^*$); OR 3-8D BOX (2 $1/2^* \times 0.131^*$); OR 3-8D COMMON (2 $1/2^* \times 0.131^*$); OR 3-8D BOX (2 $1/2^* \times 0.131^*$); OR 3-10D BOX (3 $1/2^* \times 0.135^*$); OR 3-10D BOX (3 $1/2^* \times 0.135^*$); OR 3-16D COMMON (3 $1/2^* \times 0.162^*$); OR 3-16D COMMON (3 1	TOE NAIL 4" O.C. TOE NAIL 4" O.C. TOE NAIL 6" O.C. TOE NAIL 6" O.C. TOE NAIL FACE NAIL FACE NAIL BLIND AND FACE NAIL BLIND AND FACE NAIL AT EACH BEARING, FACE NAIL END NAIL NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP AND BOTTOM AND STAGGERED. 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE	1/4 AND ⁵ / ₁₆ 11/ ₃₂ , ³ / ₈ , ¹⁵ / ₃₂ AND ¹ / ₂ 19/ ₃₂ , ⁵ / ₈ , ²³ / ₃₂ AND ³ / ₄	(FINISHED FLOORING OT STAPLE 18 GA., 7/8 LON (FINISHED FLOORING OT 1 1/4 LONG x .121 SHANK x .375 HEAD DIA (GALVANIZED OR STAINLESS STEEL) RC 1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, (FOR TILE FIN 3 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 18 GA., 7/8, 3/16 (1 1/4 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA 1 1/2 RING OR SCREW SHA 12 1/2 GA. (0.099") SHA STAPLE 16 G/ 1 1/2 LONG RING-GROOVED U 4D CEMENT-COATED STAPLE 18 GA., 7/8 LONG (I 4D RING-GROOVED UNDE STAPLE 18 GA., 7/8 LONG (I 6D RING-GROOVED UNDE	IG, ³ / ₄ CROWN HER THAN TILE) METER CORROSION-RESISTANT OFING NAILS (FOR TILE FINISH) RIBBED WAFER-HEAD SCREWS ISH) PLYWOOD NK NAIL-MINIMUM NK DIAMETER CROWN WIDTH NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER NK NAIL-MINIMUM NK DIAMETER A.1 ¹ / ₂ HARDBOARD ^f NDERLAYMENT NAIL SINKER NAIL PLASTIC COATED) PARTICLEBOARD ERLAYMENT NAIL G, ³ / ₁₆ CROWN ERLAYMENT NAIL	3 8 8 3 2 6 6 6 6 6 3 3 3 6 3 3 3 3 3 6 3 3 6 3 6 3 6 3 6 3 6 3 6 3 6 3	6 6 6 6 6		

FOR WOOD STRUCTURAL PANEL ROOF SHEATHING ATTACHED TO GABLE END ROOF FRAMING AND TO INTERMEDIATE SUPPORTS WITHIN 48 INCHES OF ROOF EDGES AND RIDGES, NAILS SHALL BE SPACED AT 6 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 MPH AND SHALL BE SPACED 4 INCHES ON CENTER WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR GREATER BUT LESS THAN 140 MPH. GYPSUM SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING OF FLOOR FLOOR FLOOR FLOOR FLOOR FLOOR FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING OF FLOOR FLOOR FLOOR FLOOR FLOOR FLOOR FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS COLD FLOOR FERDING TO PERIMETER SHALL HE SUPPORTED BY EDAMING MEMBERS OR SOL DID IN DISCINCICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED. RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.

HARDBOARD UNDERLAYMENT SHALL CONFORM TO CPA/ANSI A135.4 SPECIFIED ALTERNATE ATTACHMENTS FOR ROOF SHEATHING SHALL BE PERMITTED WHERE THE ULTIMATE DESIGN WIND SPEED IS LESS THAN 130 MPH. FASTENERS ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE INSTALLED USING THE SPACING LISTED FOR PANEL EDGES. FIBER-CEMENT UNDERLAYMENT SHALL CONFORM TO ASTM C1288 OR ISO 8336, CATEGORY C.

DESIGN LOADS (PS	F)

THE DWELLING SHALL COMPLY WITH THE FOLLOWING LOAD CONDITIONS

AREA	MIN. DEAD LOAD	MIN. LIVE LOAD
EXTERIOR BALCONIES	10	60
DECKS, STAIRS	10	40
CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE 3:12 OR LESS	10	10
CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE OVER 3:12	10	10
CEILING JOISTS / ATTICS WITH STORAGE - DOOR PULL DOWN LADDER ACCESS	10	20
ROOMS: NON-SLEEPING	10	40
ROOMS: SLEEPING	10	30
ROOF: LIGHT ROOF COVERING	10	20
ROOF: HEAVY ROOF COVERING / CONCRETE / TILE / SLATE	20	20
GUARDRAILS, HANDRAILS	200# LL N	NORMAL

HEAVY ROOF COVERING MATERIAL (TILE, CONCRETE, SLATE, ETC.) SHALL NOT BE USED UNLESS 20 PSF DEAD LOAD AND HEAVY ROOF IS NOTED ON THE ROOF PLAN. IF HEAVY ROOFING IS TO BE USED AND IS NOT NOTED ON THE ROOF PLAN, NOTIFY ENGINEER PRIOR TO ANY CONSTRUCTION, INCLUDING FOUNDATION AND SITE WORK. IF THE PLAN HAS BEEN DESIGNED FOR HEAVY ROOF LOADS IT WILL BE NOTED IN THE ROOF NOTES ON THE ROOF PLAN.

COLUMN SCHEDULE

BASE	O ON FOOTING SIZE	(ASSUME 1	500 PSF SO	IL)
		COL.	COL.	MAX.

PAD SIZE	REINFORCEMENT	MIN.	TYPE	LOAD
24"x24"x12"	(4) #4 BARS E/W	3"	SCH40	6K
30"x30"x12"	(5) #4 BARS E/W	3"	SCH40	9.4K
36"x36"x12"	(6) #4 BARS E/W	3"	SCH40	13.5K
42"x42"x14"	(7) #4 BARS E/W	3 1/2"	SCH40	18.4K
48"x48"x16"	(8) #4 BARS E/W	3 1/2"	SCH40	24.0K
54"x54"x16"	(9) #4 BARS E/W	3 1/2"	SCH40	30.4K
60"x60"x18"	(10) #4 BARS E/W	3 1/2"	SCH40	37.5K

COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE. 1/2" x 2" BOLTS SHOULD THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTIFIED INSPECTOR.

ENGINEERED LUMBER

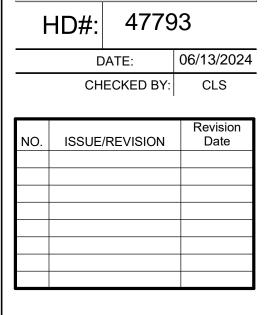
	F _b (psi)	E (psi)	F _∨ (psi)
LVL	2600	1.8x10	285
GLULAM	2400	1.8x10	190
PARALAM	2600	2.0x10	290

BUILDER'S PLANS: THE TERM "BUILDER'S PLANS" REFERS TO A CERTAIN LEVEL OF DEVELOPMENT OF THE DRAWINGS. AS THE NAME IMPLIES, THESE PLANS REQUIRE THAT THE CONTRACTOR POSSESSES COMPETENCE IN RESIDENTIAL CONSTRUCTION AND A THOROUGH UNDERSTANDING OF THE INTERNATIONAL RESIDENTIAL CODE (IRC). THE CONTRACTOR WARRANTS TO HD ENGINEERING & DESIGN THAT THEY POSSESSES THE PARTICULAR COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THIS PROJECT WITHOUT FULL ENGINEERING AND DESIGN SERVICES, AND FOR THAT REASON THE CONTRACTOR OR HOME OWNER HAS RESTRICTED THE SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDER'S PLANS" IN RECOGNITION OF THE CONTRACTOR'S SOPHISTICATION. ALTHOUGH HD ENGINEERING & DESIGN HAVE PERFORMED THEIR SERVICES WITH DUE CARE AND DILIGENCE, WE CANNOT GUARANTEE PERFECTION. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED IMMEDIATELY TO HD ENGINEERING. CONSTRUCTION MAY REQUIRE THAT THE CONTRACTOR ADAPT THE "BUILDER'S PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENTS IN FIT, FORM, DIMENSION AND QUANTITY. CHANGES MADE FROM THE PLANS WITHOUT THE CONSENT OF HD ENGINEERING & DESIGN ARE UNAUTHORIZED. IT IS ALSO UNDERSTOOD THAT THE CONTRACTOR WILL BE RESPONSIBLE FOR MEETING ALL APPLICABLE BUILDING CODES INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, AND PLUMBING CODE REQUIREMENTS (WHICH IS EXCLUDED FROM THESE PLANS). IN THE EVENT ADDITIONAL DETAIL OR GUIDANCE IS NEEDED BY THE CONTRACTOR OR HOMEOWNER FOR CONSTRUCTION OF ANY ASPECT OF THE PROJECT, HD ENGINEERING & DESIGN OR A QUALIFIED ENGINEER SHALL IMMEDIATELY BE RETAINED. FAILURE TO NOTIFY US OF THESE NEEDS OR OF CHANGES TO THE PLANS SHALL RELIEVE HD ENGINEERING & DESIGN OF ALL RESPONSIBILITIES OF THE CONSEQUENCES.

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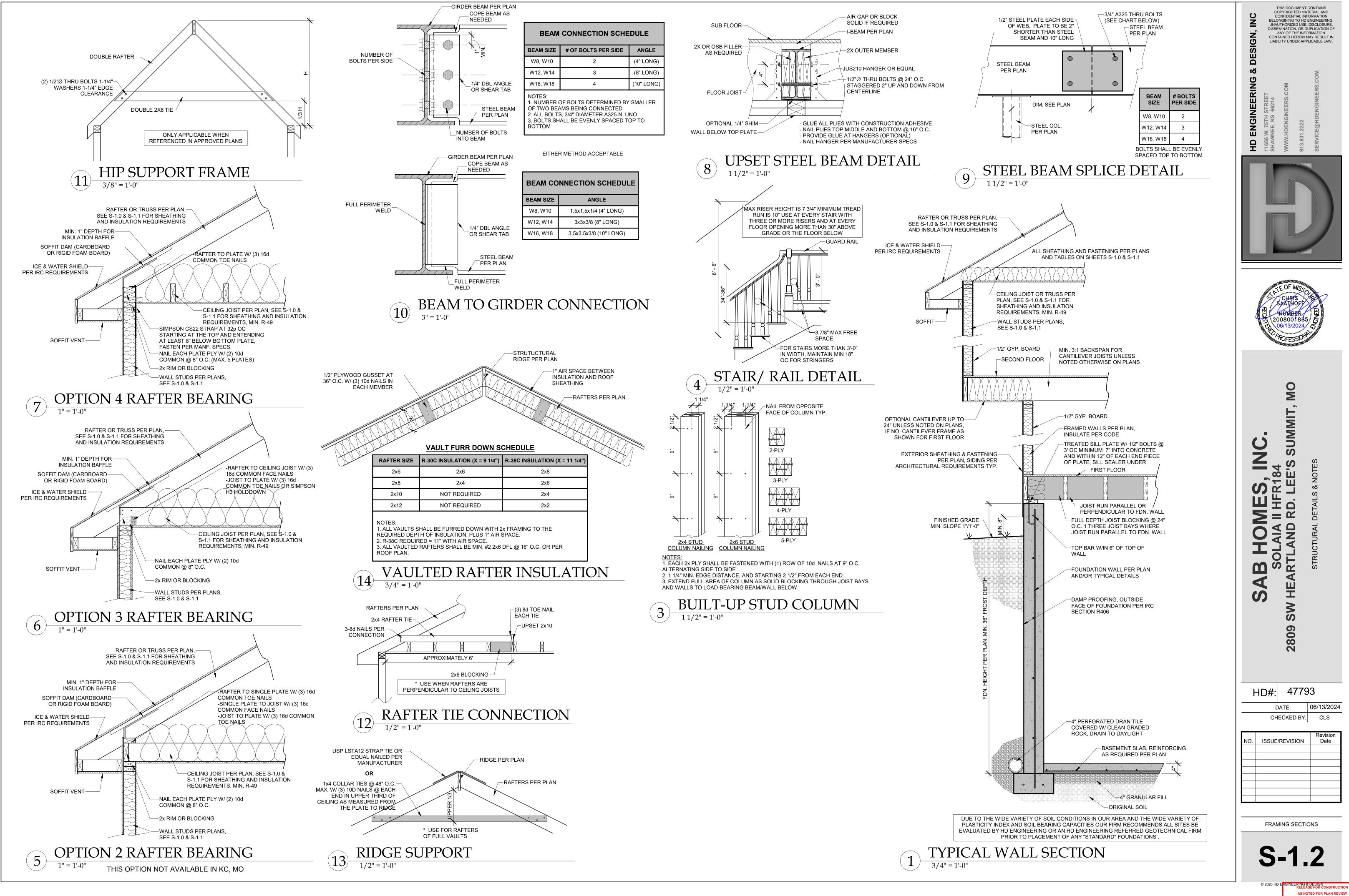


GENERAL NOTES

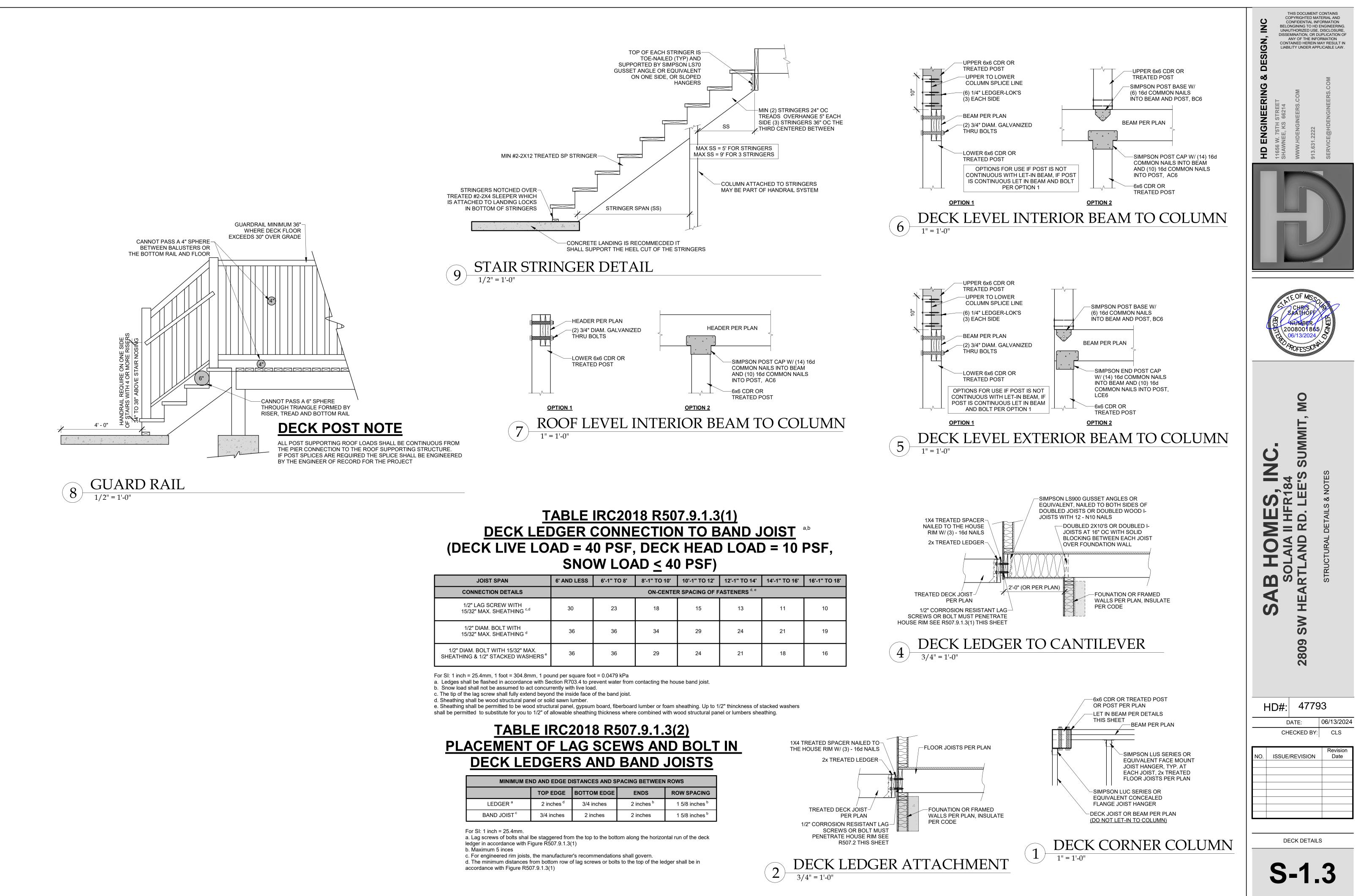


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> LEE'S SUMMIT, MISSOURI 08/16/2024

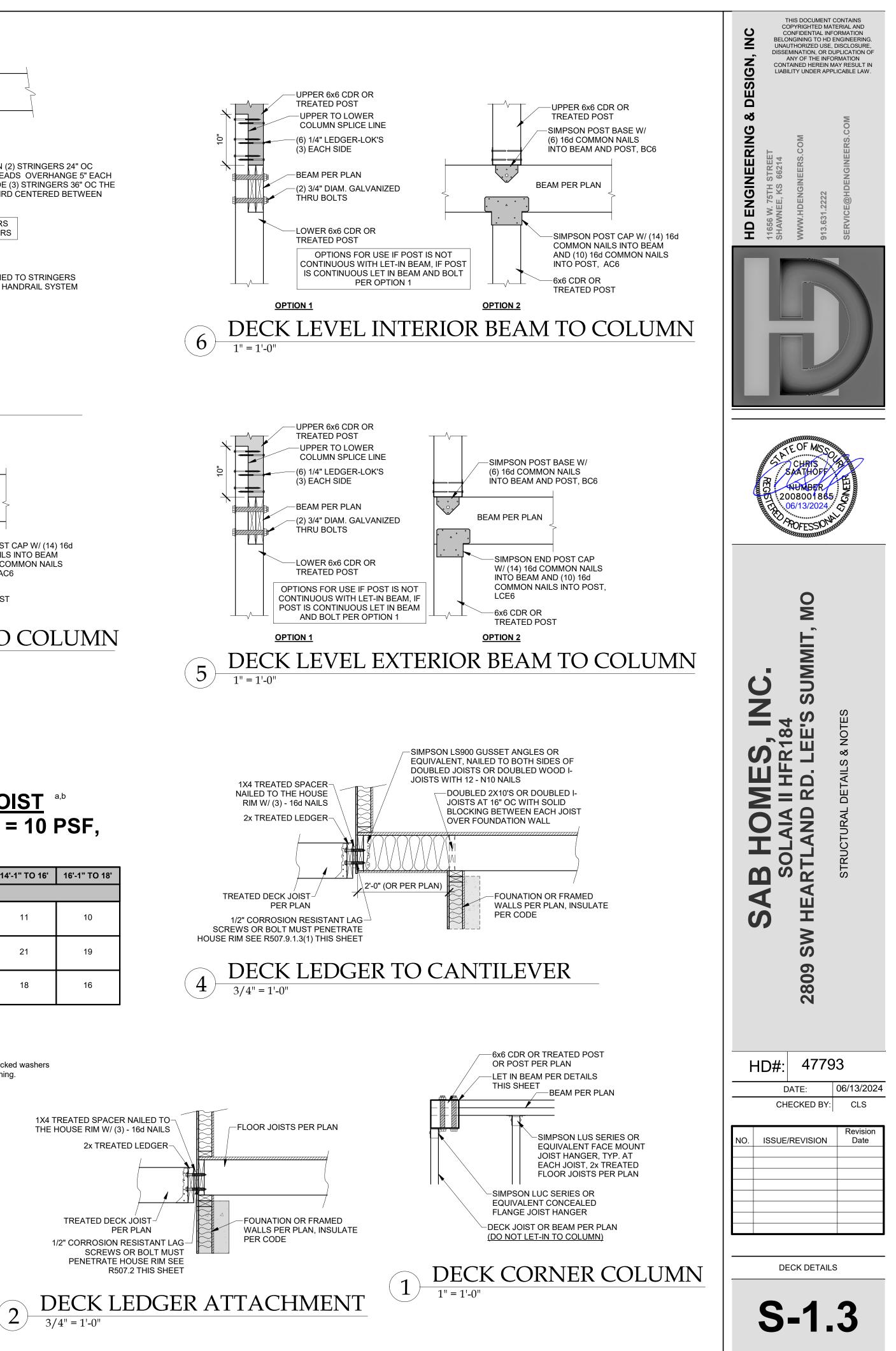


DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/16/2024



JOIST SPAN	6' AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'	
CONNECTION DETAILS		ON-CENTER SPACING OF FASTENERS ^{d, e}						
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING ^{c,d}	30	23	18	15	13	11	10	
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING ^d	36	36	34	29	24	21	19	
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING & 1/2" STACKED WASHERS [®]	36	36	29	24	21	18	16	

MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS							
TOP EDGE BOTTOM EDGE ENDS ROW SPACING							
LEDGER ^a	2 inches ^d	3/4 inches	2 inches ^b	1 5/8 inches ^b			
BAND JOIST [°]	3/4 inches	2 inches	2 inches	1 5/8 inches ^b			



RING & DESIGN RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 08/16/2024

TABLE R602.3(5) SIZE, HEIGHT AND SPACING OF WOOD STUDS^a

STUD SIZE (INCHES)	LATERALLY UNSUPPORTED STUD HEIGHTª (FEET)	MAXIMUM SPACING WHERE SUPPORTING A ROOF-CEILING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY (INCHES)			
2 x 3 ^b					
2 x 4	10	24°			
3 x 4	10	24			
2 x 5	10	24			
2 x 6	10	24			
For SI: 1 inch = 25.4 mm	n, 1 foot = 304.8 mm.				

ACCEPTED ENGINEERING PRACTICE.

RESIDENTIAL SEISMIC & WIND ANALYSIS

ETERMINE WEIGH	T OF HOUSE:						CALCULATED VALUE
OCATION					DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (lbs.)
OOF					10	3349	33490
EILING					10	3244	32440
RST FLOOR					10	1717	17170
				WALL LENGTH (ft)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)
RST FLOOR EXT. \	WALL DL			248.98	10	10	24898
					DEAD LOAD (psf)	AREA (ft2)	WEIGHT (lbs)
RST FLOOR INT. P	ARTITION WALL DL				6	1717	10302
			DESIGN PER 115 MPH	3-SECOND GUST, EXPOSUR	RE C AND MEAN ROOF HEIGHT		
	FRONT-T	O-BACK	D DESIGN PER 115 MPH	3-SECOND GUST, EXPOSUR	SIDE-TC)-SIDE	
	FRONT-T AREA	TO-BACK LOAD	D DESIGN PER 115 MPH		SIDE-TC AREA	D-SIDE LOAD	
SLOPED ROOF	FRONT-T	O-BACK	D DESIGN PER 115 MPH	3-SECOND GUST, EXPOSUR	SIDE-TC)-SIDE	
SLOPED ROOF VERT. ROOF	FRONT-T AREA	TO-BACK LOAD	D DESIGN PER 115 MPH		SIDE-TC AREA	D-SIDE LOAD	CUMULATIVE
	FRONT-T AREA 275	TO-BACK LOAD		SLOPED ROOF	SIDE-TC AREA 529	D-SIDE LOAD	CUMULATIVE 19380
	FRONT-T AREA 275 0	TO-BACK LOAD 1211 0	CUMULATIVE	SLOPED ROOF VERT. ROOF	SIDE-TC AREA 529 0	D-SIDE LOAD 2174 0	
VERT. ROOF 1ST	FRONT-T AREA 275 0 564.63	TO-BACK LOAD 1211 0 7873	CUMULATIVE 17600 21080	SLOPED ROOF VERT. ROOF 1ST	SIDE-TC AREA 529 0 804.76	D-SIDE LOAD 2174 0	19380
VERT. ROOF 1ST	FRONT-T AREA 275 0 564.63	TO-BACK LOAD 1211 0 7873	CUMULATIVE 17600 21080	SLOPED ROOF VERT. ROOF 1ST BSMT ^a	SIDE-TC AREA 529 0 804.76	D-SIDE LOAD 2174 0	19380 0
VERT. ROOF 1ST	FRONT-T AREA 275 0 564.63 200	TO-BACK LOAD 1211 0 7873 3480	CUMULATIVE 17600 21080 PRESSURE (PSF	SLOPED ROOF VERT. ROOF 1ST BSMT ^a) - PER ASCE CH. 26	SIDE-TC AREA 529 0 804.76 0	D-SIDE LOAD 2174 0 10668 0	19380

q_{z10}=0.00256K_zK_{zt}K_dV² (ASCE7-16 Velocity Pressure) q_{z10_ASD}=0.6q_{z10} (Design Velocity Pressure for ASD analysis under ASCE7-16 and IRC/IBC 2018)

1ST FLOOR TRIBUTARY WEIGHT BASEMENT TRIBUTARY WEIGHT $S_S \left(\text{SITE GROUND MOTION} - \% g - \text{FROM ASCE7 SEISMIC MAP} \right)$

F_a (from ASCE7 Table 11.4-1) S_{DS} (= 2/3 * S_S * F_a) R (from ASCE7 Table 12.2-1)

78387.1 10.0% 1.1 0.073

SHALL NOT BE USED IN EXTERIOR WALLS

		SEISMIC SHEAR			
CATION FLOOR SEMENT		From	ASCE7 (Eq. 12.8-1):	V (= 1.25 * S _{DS} * V 1105 1105	V / R) (Ibs.)
Sheathing Location	Min. Sheathing Schedule	Fastening Schedule	Allowable Sh	ear (#/LF)	Code Reference
Exterior (Option #1)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 6" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	155	i	per IBC, Table 2306.3(1)
Exterior (Option #2)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 4" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	230	I	per IBC, Table 2306.3(1)
Exterior (Option #3)	7/16" APA Rated Plywood/OSB	1-1/2" 16ga. Staples w/ 1" penetration@ 3" OC Edges, 6" OC Field For 24" stud spacing, 12" OC Field For 16" stud spacing	310)	per IBC, Table 2306.3(1)
Exterior <u>(Option #4)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 4" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	220		AF&PA SDPWS Table 4.3A
Exterior <u>(Option #5)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing	8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing	320		AF&PA SDPWS Table 4.3A
Exterior <u>(Option #6)</u>	7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing	6d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field	200		AF&PA SDPWS Table 4.3A
Interior	1/2" Gypsum Board	No. 6- 1 ¹ / ₄ " Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field	60		per IBC, Table 2306.4.4
Interior	16 Ga. Simpson/USP Type WB Steel X-Brace (or equal)	(3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacturer specifications - see detail on sheet S3)	325		

					WIDTH OF 1ST STORY (FT.)	51.33		
EXTERIOR SHEATHIN	NG OPTION FOR FIRS	T FLOOR	4	1	DEPTH OF 1ST STORY (FT.)	73.16		
EXTERIOR SHEATHIN	NG OPTION FOR BASI	EMENT WALLS	4		BACK WALL OF GARAGE (FT.)	33.5		
				1	GAR. WALL: 1=F-B, 2=S-S	2		
[EXTER	IOR STRUCTURAL WALL	LENGTHS (ft.) & RESISTANCES			
		SE	EISMIC			WIND		
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (lbs.)
1ST FLOOR	70.66	19785	124.32	34810	70.66	27699	124.32	48733
BASEMENT	81.66	22865	142.32	39850	81.66	32011	142.32	55789
		ADDITIONAL RESIS		ł				to the selector (in)
1ST FLOOR FRONT-T		0	WIND 0		Anchor Bolt Spacing	(in)	16d Nail Spacing req'd at b 1st Floor F-B	23
1ST FLOOR FRONT-T		0	0		diameter (in.)	(In.) 0.5	1st Floor S-S	14
BASEMENT FRONT-T		0	0		Shear value (per NDS)	944	13111001-5-5	1-
BASEMENT FRONT		0	0		Spacing F-B (inches)	150.7		
D/(0L	OIDE	ŭ		1	spacing S-S (inches)	96.0		
			RESISTANCE REQUIR	RED IN ADDITION TO RES	SISTANCE PROVIDED BY EXTERIOR W	VALLS**		
		ADDITIONAL RESISTANCE REQUIRED (POUNDS)	PORTAL FRAMES OR PERF. SHEAR WALL RESISTANCE	INTERIOR X-BRACES (325#/BRACE)	INTERIOR WALL LENGTH W/ 1/2" GYPSUM BOARD PER TABLE (FT.)	INT. WALL LENGTH SHEATHED W/ OSB (TOTAL LENGTH, ONE SIDE, FT.)	RESISTANCE PROVIDED BY ADDITIONAL METHODS (POUNDS)	OK?
1ST FLOOR FRONT-T	O-BACK	0					0	YES
1ST FLOOR SIDE-TO	-SIDE	0					0	YES
BASEMENT FRONT-T		0					0	YES
BASEMENT SIDE-TO-	-SIDE	0					0	YES
2) SEE SHEET S1 FO	R INTERIOR STEEL X	-BRACE INSTALLATION	, 3) INTERIOR WALLS S	SHEATHED WITH OSB SH	E CAPACITIES (IF APPLICABLE), IALL BE ATTACHED WITH SAME STAP GHT SECTIONS OF 2'-8" OR LONGER	'LE/NAILING		
				WIND UPLIF	T ANALYSIS			
	X/12	DEGREES						
ROOF PITCH (MAX)	6	26.6	PITCH OF 6 OR LESS:	EOH -13.3, E -7.2, G -5.2]			
		ASCE 7	· · · · · · · · · · · · · · · · · · ·		-			
	LENGTH (FT.)	PRESSURE (PSF)	LINEAL FT. OF OH	UPLIFT PER FT* (LBS)	1			
OVERHANG	2	16.56	252.98	33.12				

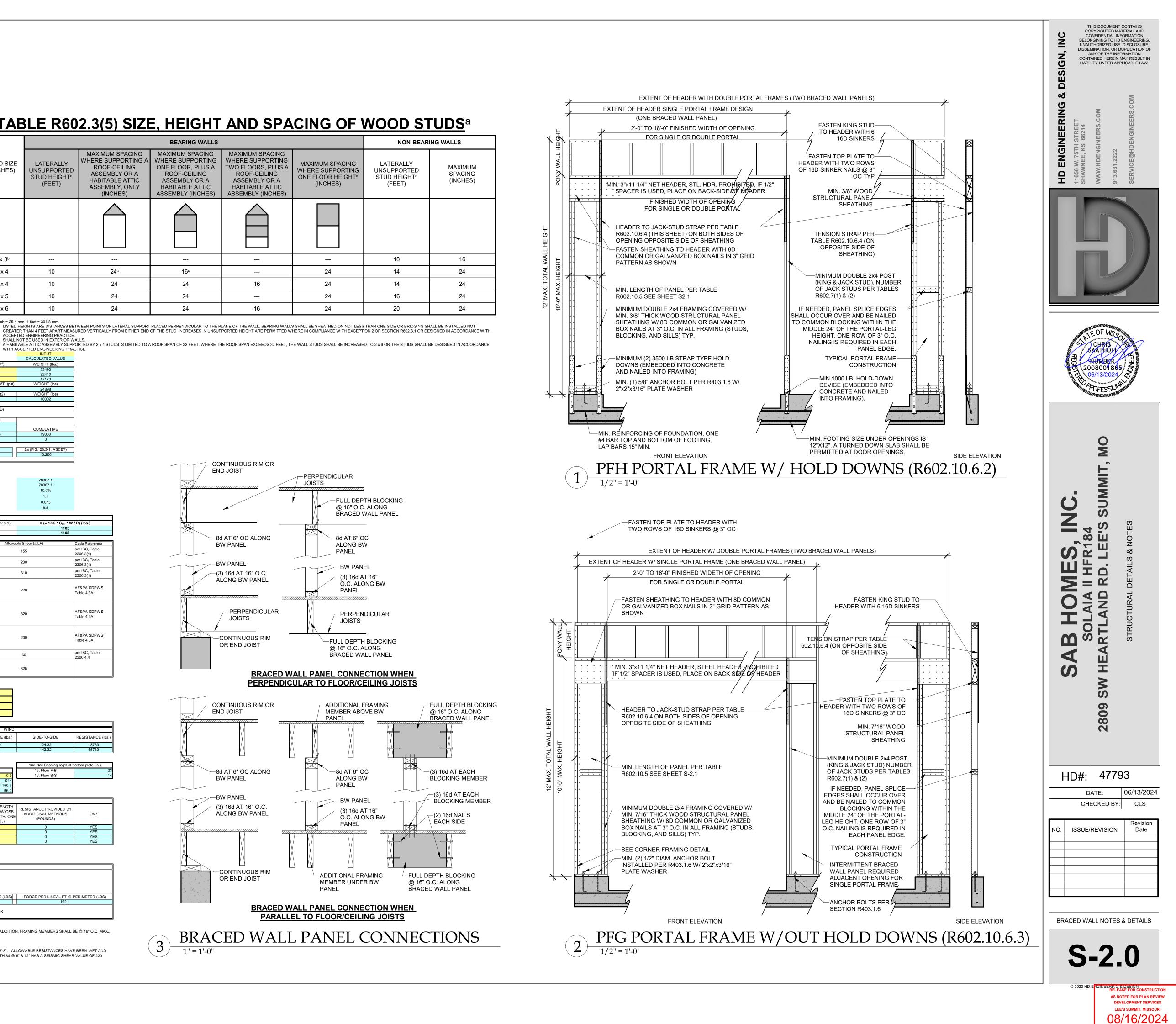
 TOTAL AREA (FT²)
 ZONE E AREA (FT²)
 ZONE G AREA (FT²)
 PRESSURE ZN. E (PSF)
 PRESSURE ZN. G (PSF)

 MAIN ROOF**
 3755.3028
 1816.424976
 1938.877824
 15.12
 10.5
 TOTAL FORCE (LBS) FORCE PER LINEAL FT @ PERIMETER (LBS) ALONG PERIMETER TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS) UPLIFT OK *INSIDE EXTERIOR WALLS RESISTANCE DUE TO DEAD WEIGHT & (3) 10d TOENAILS NOTE FOR CONSTRUCTION

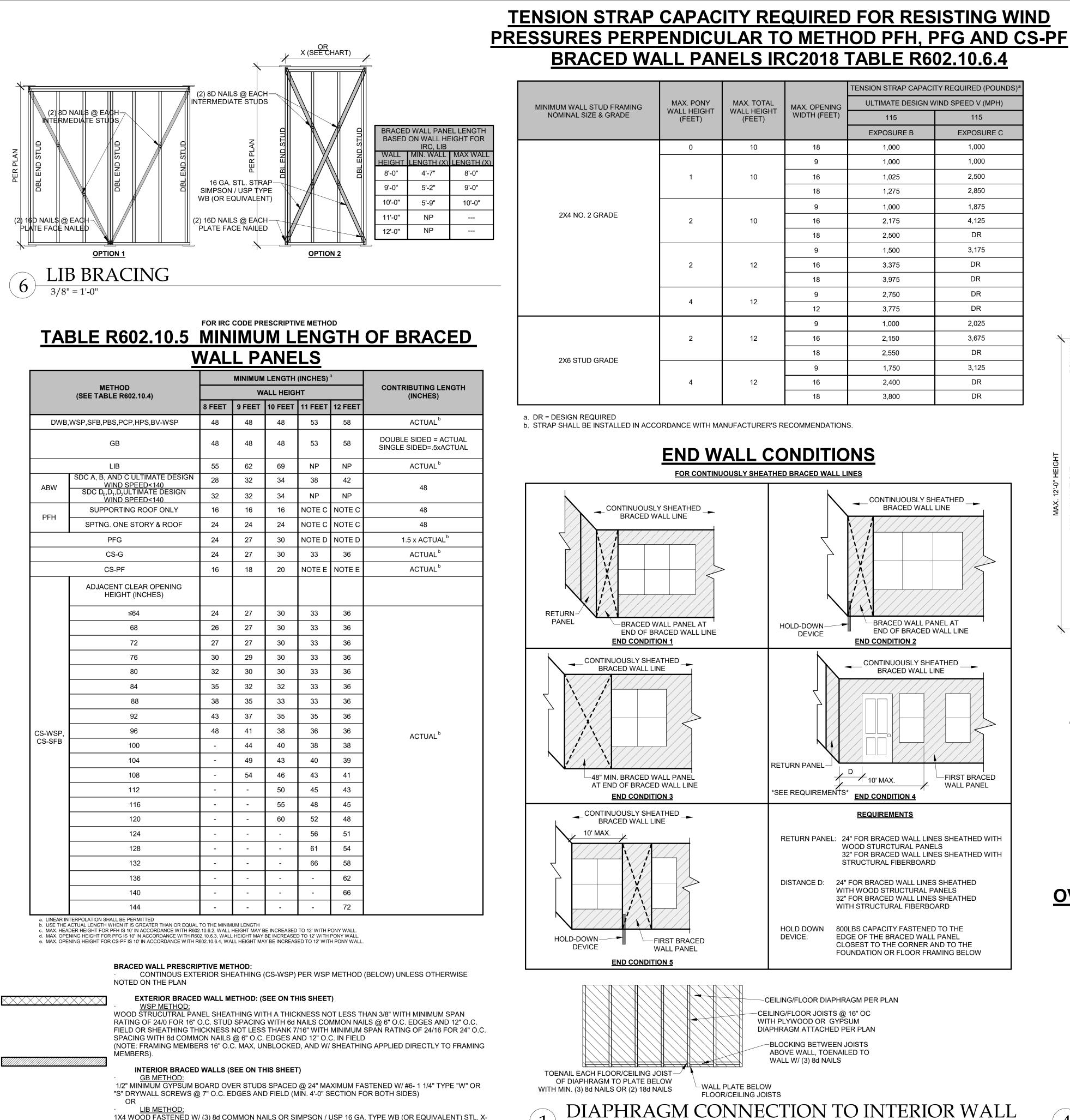
FHE CONTINUOUS STRUCTURAL PANEL SHEATHING BRACING METHOD REQUIRES USE OF THE ABOVE TABLE FOR SHEATHING OF THE ENTIRE STRUCTURE. IN ADDITION, FRAMING MEMBERS SHALL BE @ 16" O.C. MAX UNBLOCKED, AND W/ SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS NOTE FOR DESIGN

ALL WALLS USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNINTERRUPTED HEIGHT OF 8'-0" AND LENGTH OF 2'-8". ALLOWABLE RESISTANCES HAVE BEEN #/FT AND INCREASED BY 40% FOR WIND LOADS, PER VALUES IN 2018 IBC SECTION 2306 AND AF&PA SDPWS TABLE 4.3A. FOR EXAMPLE, 7/16" APA-RATED SHEATHING WITH 8d @ 6" & 12" HAS A SEISMIC SHEAR VALUE OF 220 A WIND SHEAR VALUE OF 335#/FT - 40% GREATER THAN THAT OF SEISMIC)

NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION



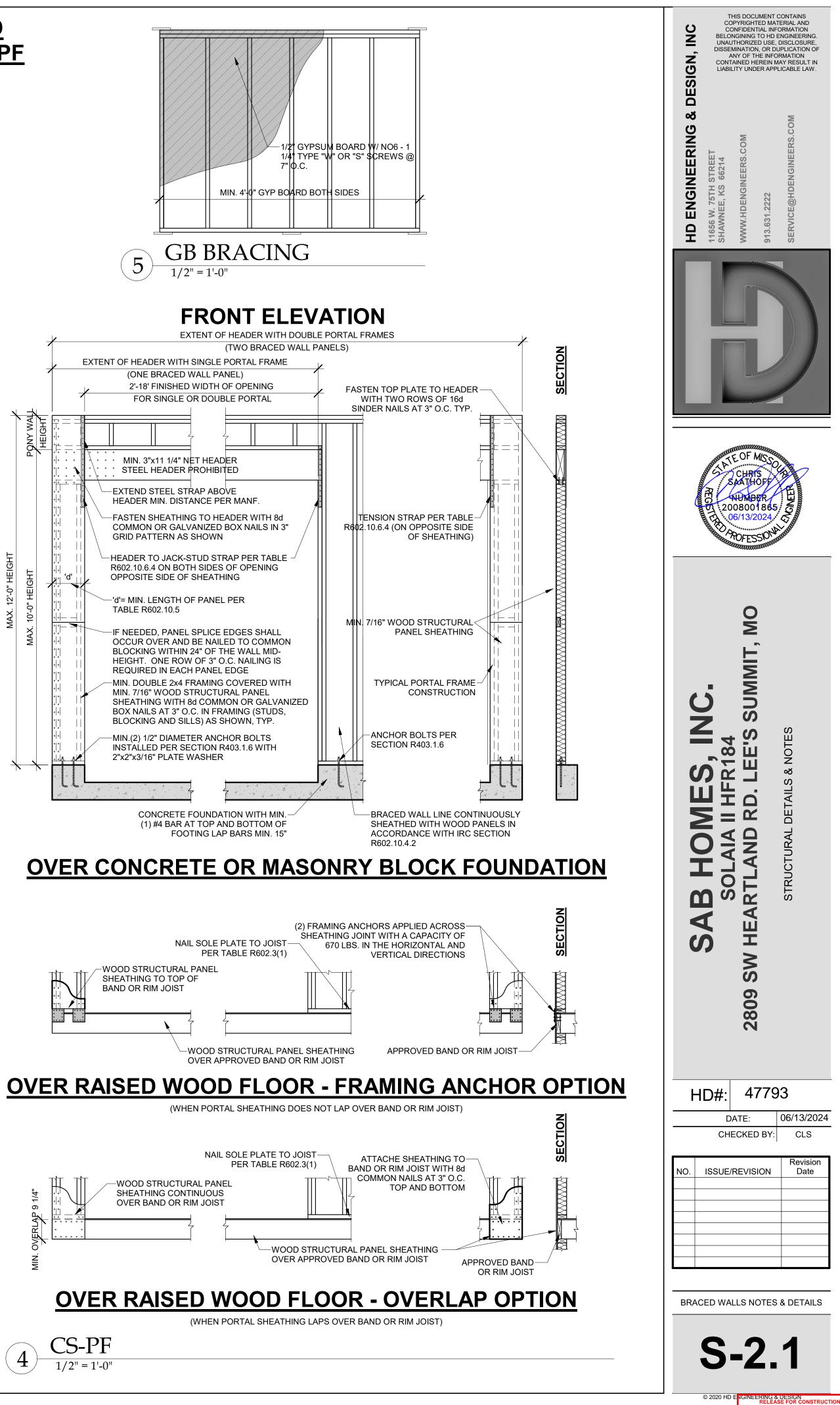
WHERE SUPPORTING ONE FLOOR, PLUS A ASSEMBLY (INCHES)

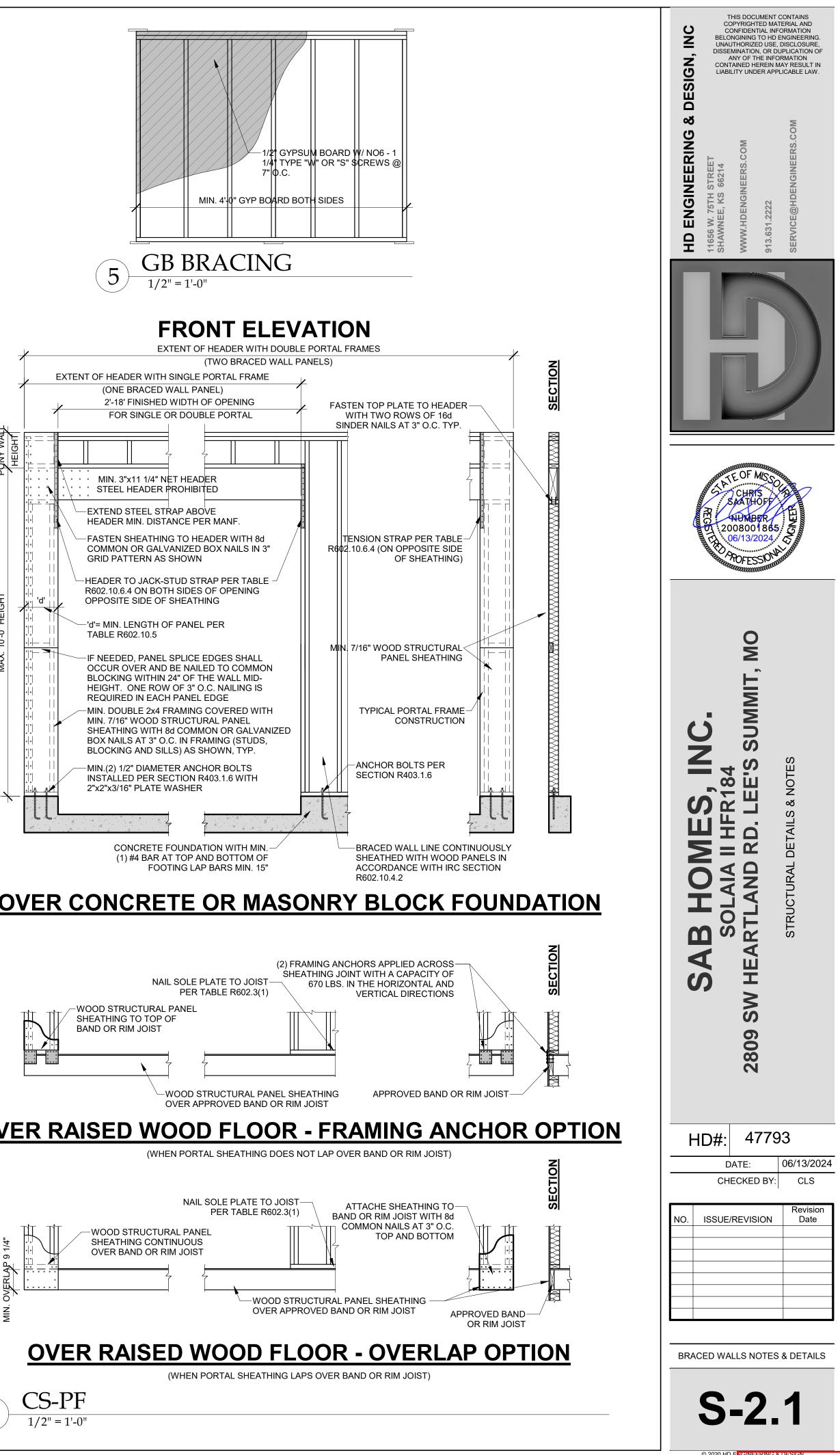


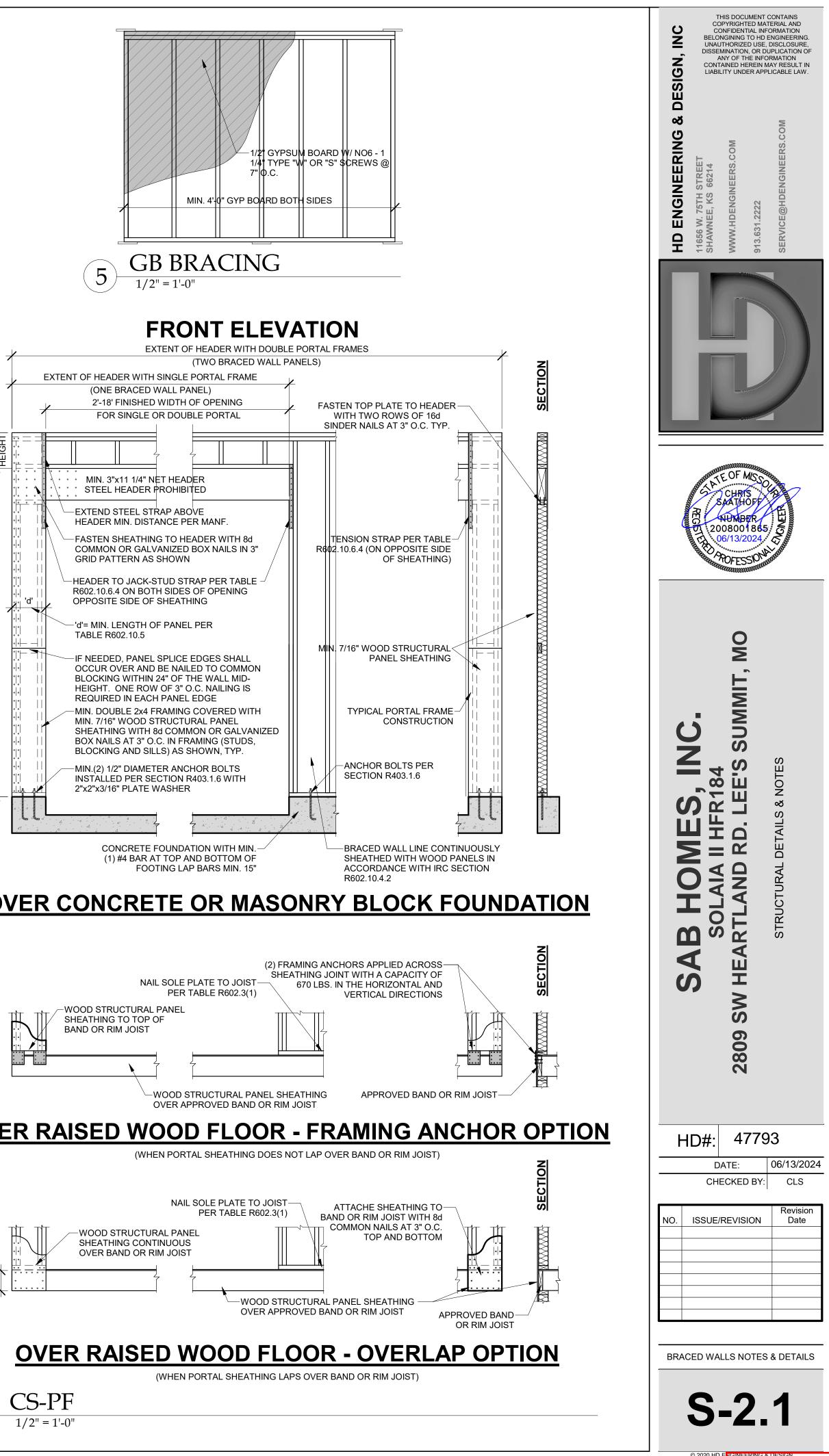
3/8" = 1'-0

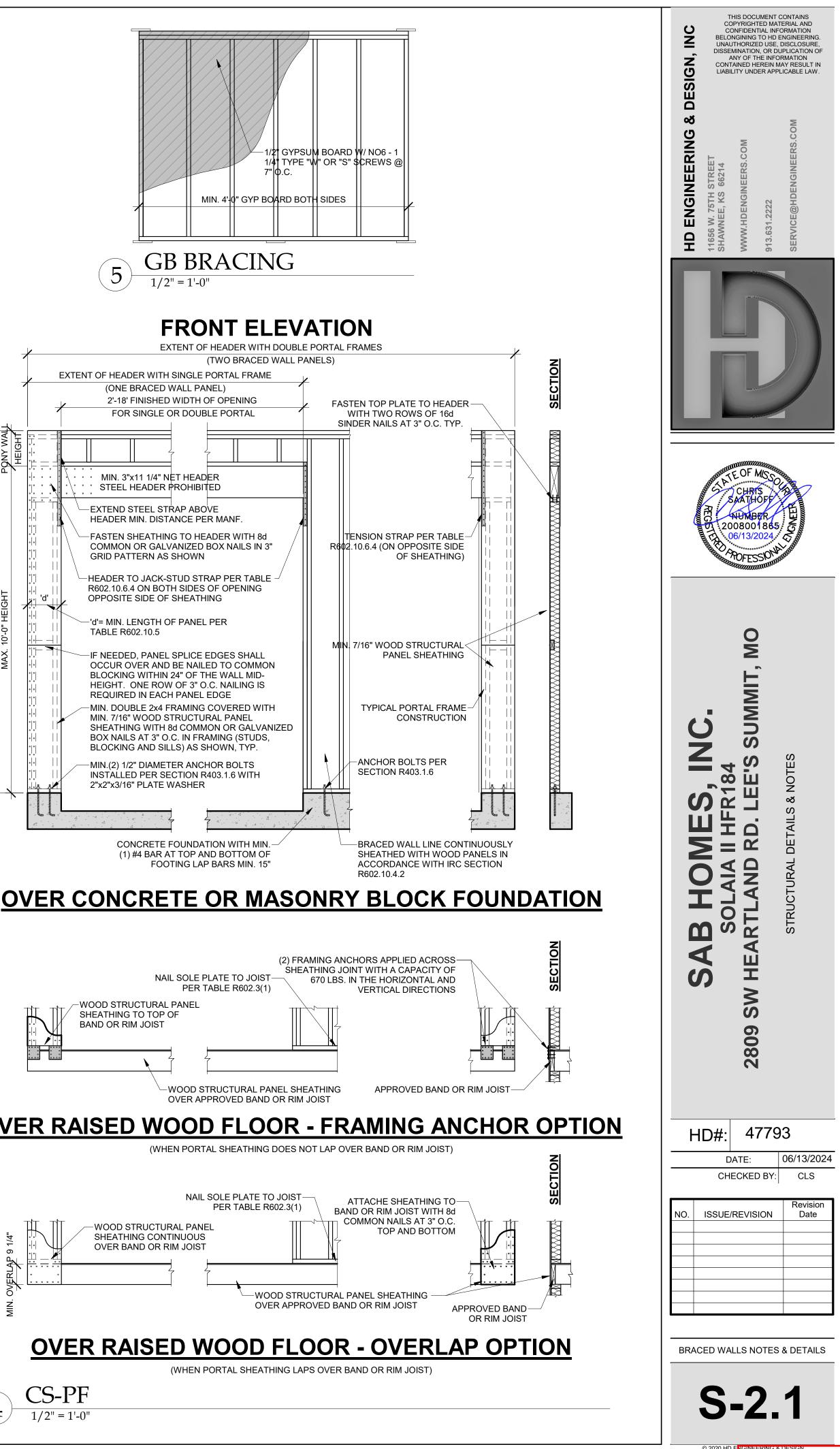
1X4 WOOD FASTENED W/ (3) 8d COMMON NAILS OR SIMPSON / USP 16 GA. TYPE WB (OR EQUIVALENT) STL. X-BRACE(S) @ 45° TO 60° ANGLES, MAXIMUM 16" O.C. STUDS FASTENED PER MANUF. SPECS.

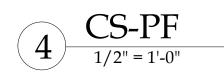
				TENSION STRAP CAPACI	TY REQUIRED (POUNDS) ^a	
MINIMUM WALL STUD FRAMING	MAX. PONY	MAX. TOTAL WALL HEIGHT (FEET)	MAX. OPENING	ULTIMATE DESIGN WIND SPEED V (MPH)		
NOMINAL SIZE & GRADE	WALL HEIGHT (FEET)		WIDTH (FEET)	115	115	
				EXPOSURE B	EXPOSURE C	
	0	10	18	1,000	1,000	
2X4 NO. 2 GRADE			9	1,000	1,000	
	1	10	16	1,025	2,500	
			18	1,275	2,850	
2X4 NO. 2 GRADE			9	1,000	1,875	
2X4 NO. 2 GRADE	2	10	16	2,175	4,125	
			18	2,500	DR	
		12	9	1,500	3,175	
	2		16	3,375	DR	
			18	3,975	DR	
	4	12	9	2,750	DR	
	4	12	12	3,775	DR	
			9	1,000	2,025	
	2	12	16	2,150	3,675	
2X6 STUD GRADE			18	2,550	DR	
2X0 STUD GRADE			9	1,750	3,125	
	4	12	16	2,400	DR	
			18	3,800	DR	





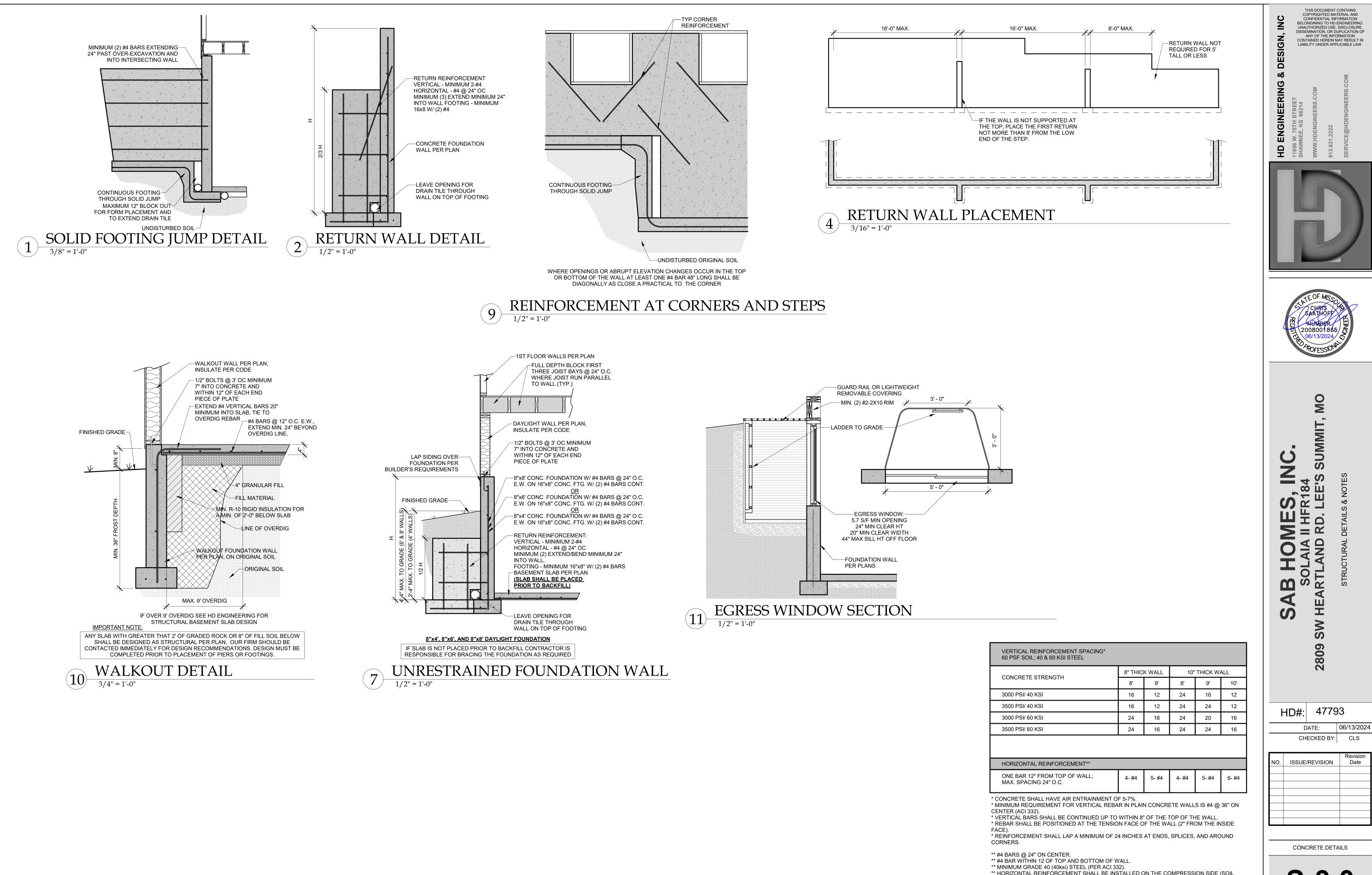






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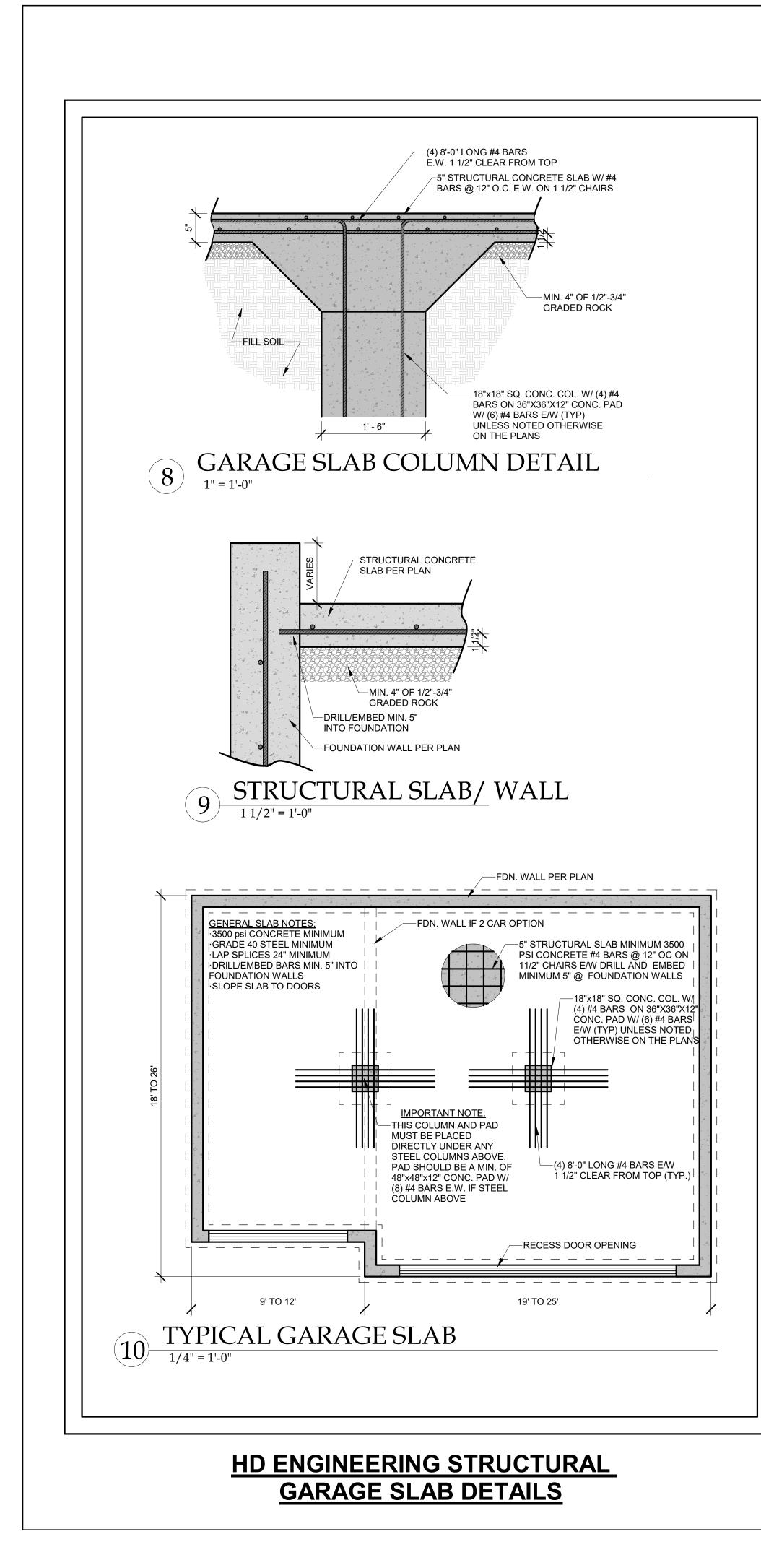
	8" THIC	K WALL	10"	10" THICK WALL		
CONCRETE STRENGTH	8'	9'	8'	9'	1(
3000 PSI/ 40 KSI	16	12	24	16	1:	
3500 PSI/ 40 KSI	16	12	24	24	1:	
3000 PSI/ 60 KSI	24	16	24	20	1	
3500 PSI/ 60 KSI	24	16	24	24	1	
HORIZONTAL REINFORCEMENT**						
		5- #4	4- #4	5- #4	6- 7	

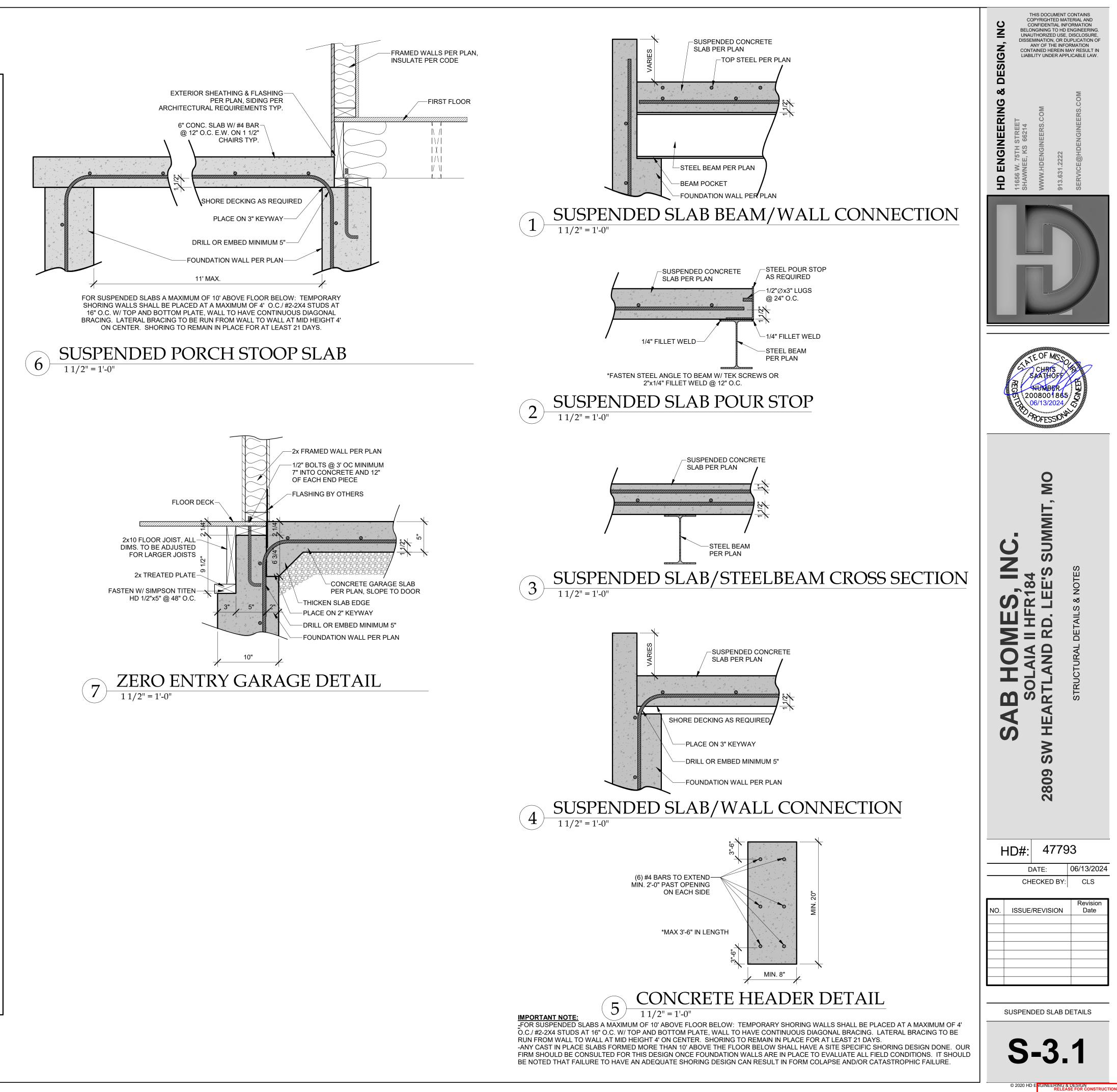
** HORIZONTAL REINFORCEMENT SHALL BE INSTALLED ON THE COMPRESSION SIDE (SOIL SIDE) OF THE VERTICAL REINFORCEMENT

S-3.0

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MINIMUM INSULATION & FENSTRATION VALUES BY COMPONENT, PER IRC2018 N1102.1.2

VALUES BELOW ARE PER 2018 IECC, ACTUAL VALUES MAY VARY BASED ON ALTERNATE ENERGY COMPLIANCE PATH CHOSEN (IN JURISDITIONS WHER						WHERE ALTERNA	RE ALTERNATIVE PATHS ARE AVAILABLE)		
CLIMATE ZONE	FENSTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED SHGC FENSTRATION		INSULATED WOOD DOOR U-VALUE	CEILING R-VALUE	WOOD FRAMED WALL R-VALUE	FLOOR R-VALUE	BASEM WALL R-\
4 EXCEPT MARINE	0.32	0.55	0.40	0.60	0.50	49	20 OR 13 CAV. +5	19	10 CONTIN OR 13 C/

NOTES: 1) BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED WITH AN AIR BARRIER AS PER N1102.4.1 OF THE 2018 IRC 2) RECESSED LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE BETWEEN THE CONDITIONED SPACE AND UNCONDITIONED SPACE 3) ALL DUCTS, AIR HANDLERS, FILTER BOXES, AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED AS PER N1103.2 OF THE 2018 IRC

CATHEDRAL / VAULTED CEILING FRAMING AND INSULATION

MINIMUM R-38 INSULATION REQUIRED, SEE DETAIL 14/S-1.2

WHERE THE CEILING IS APPLIED DIRECTLY TO THE BOTTOM OF THE RAFTERS, A MINIMUM 1" AIR SPACE SHALL BE PROVIDED BETWEEN THE TOP OF THE INSULATION AND THE SHEATHING FOR VENTILATION (R806.3) NOTE: RAFTER SIZES SPECIFIED ON PLANS ARE THE MINIMUM REQUIRED FOR STRUCTURAL PURPOSES ONLY. BUILDER TO VERIFY: IF FULL RAFTER DEPTH IS NOT ADEQUATE FOR MINIMUM INSULATION VALUE, RAFTER SIZES WILL NEED TO BE INCREASED.

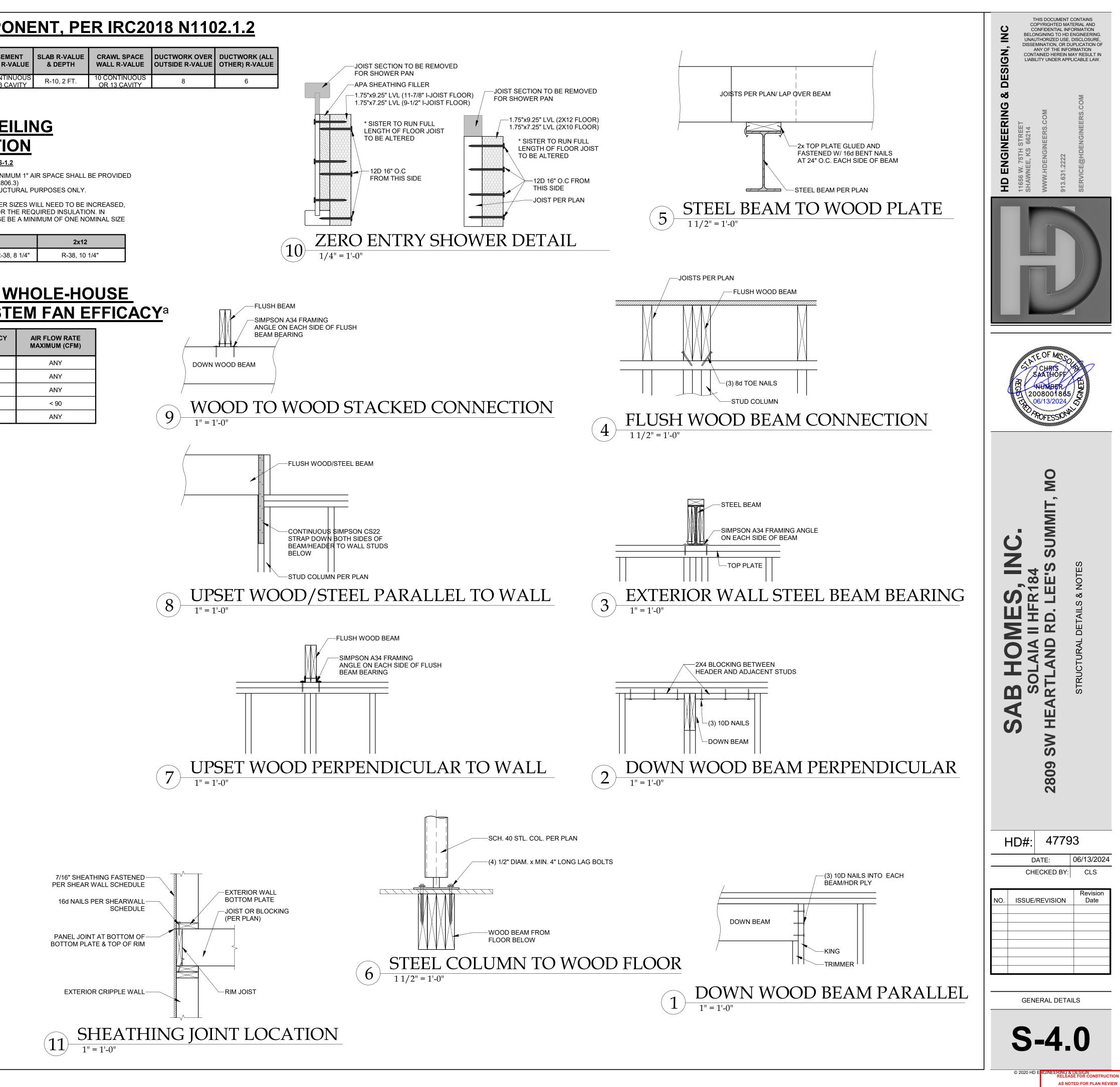
OR ADEQUATE FURRING SHALL BE USED TO OBTAIN THE MINIMUM JOIST DEPTH FOR THE REQUIRED INSULATION. IN ADDITION, IF THE RAFTER SIZE IS INCREASED IT SHALL BE VERIFIED THAT THE RIDGE BE A MINIMUM OF ONE NOMINAL SIZE LARGER THAN THE RAFTERS BEING RECEIVED. (SEE CHART BELOW)

MAXIMUM INSULATION VALUE	2x6	2x8	2x10		
1" AIR SPACE (FIBERGLASS)	R-13, 3 1/2"	R-19, 6 1/4"	CONDENSED R-		

TABLE N1103.6.1 (R403.6.1) WHOLE-HOUSE **MECHANICAL VENTILATION SYSTEM FAN EFFICACY**^a

FAN LOCATION	AIR FLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY (CFM/WATT)
HRV OR ERV	ANY	1.2 CFM/WATT
RANGE HOODS	ANY	2.8 CFM/WATT
IN-LINE FAN	ANY	2.8 CFM/WATT
BATHROOM, UTILITY ROOM	10	1.4 CFM/WATT
BATHROOM, UTILITY ROOM	90	2.8 CFM/WATT

For SI: 1 cubic foot per minute = 28.3 L/min. WHEN TESTED IN ACCORDANCE WITH HVI STANDARD 916



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