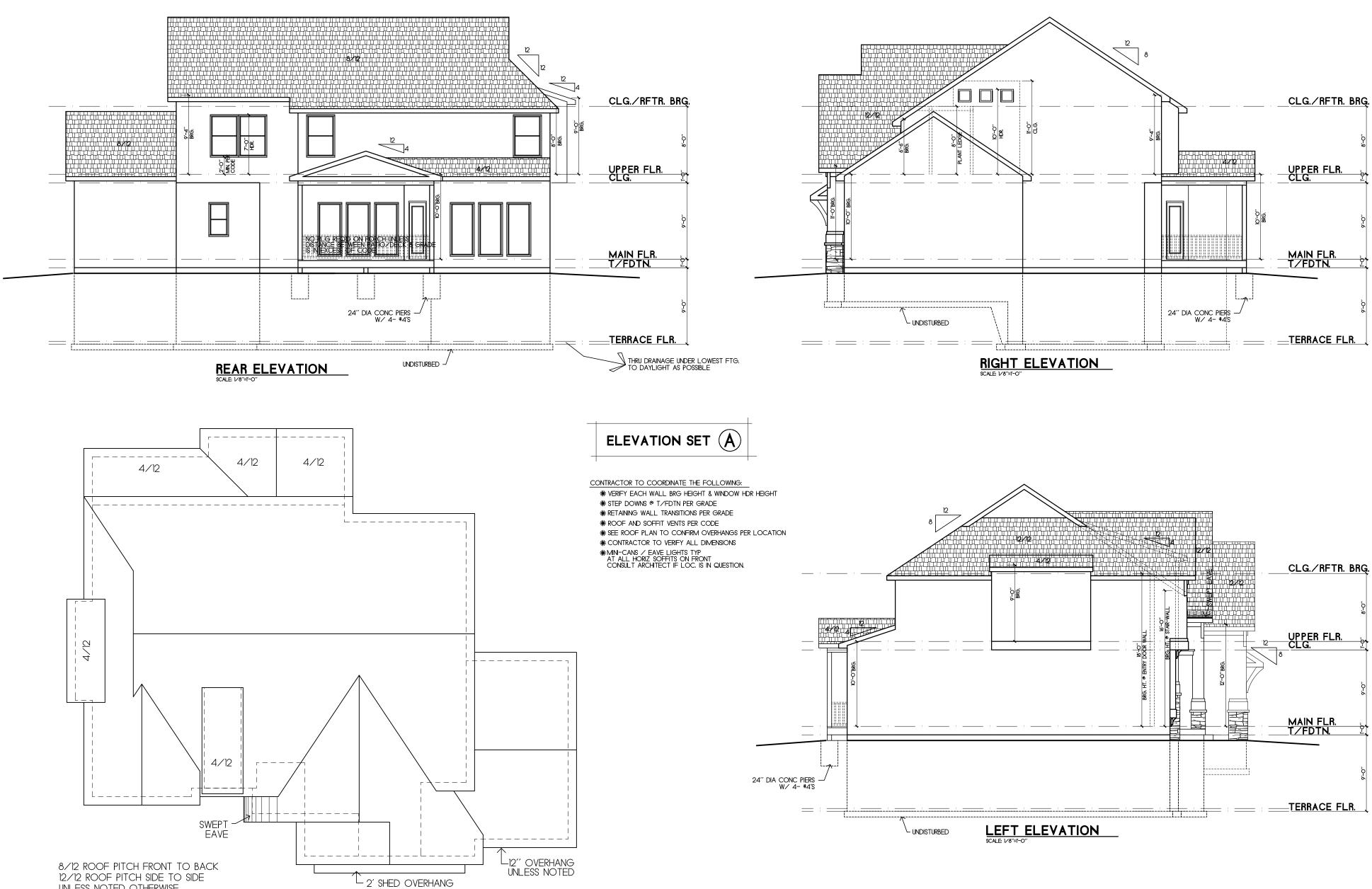
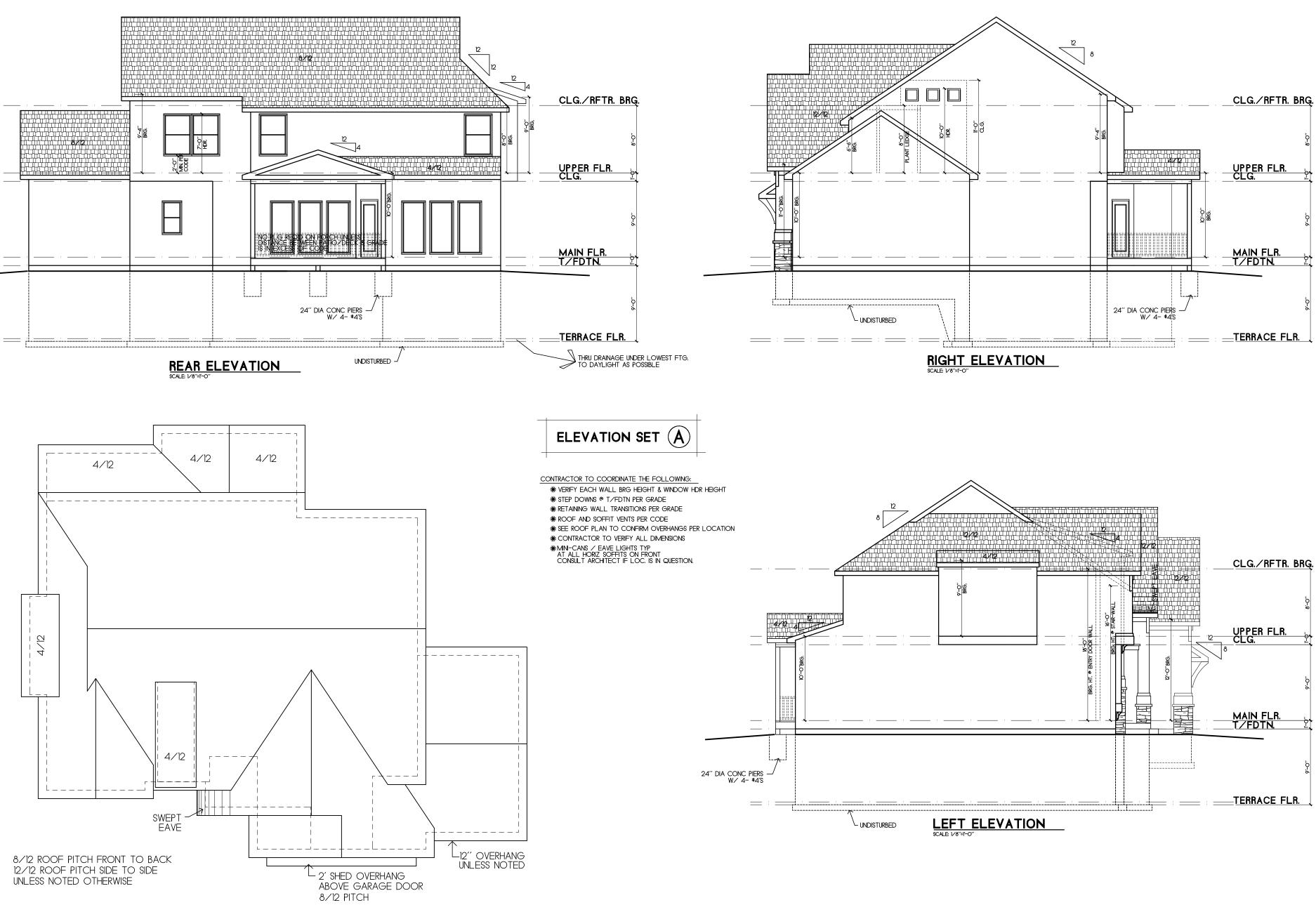


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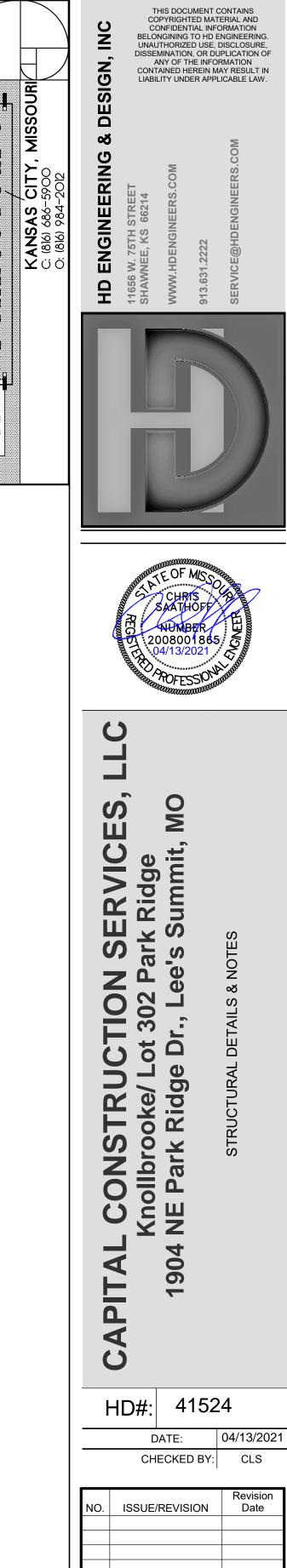






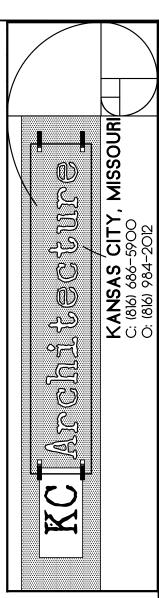
ROOF PLAN

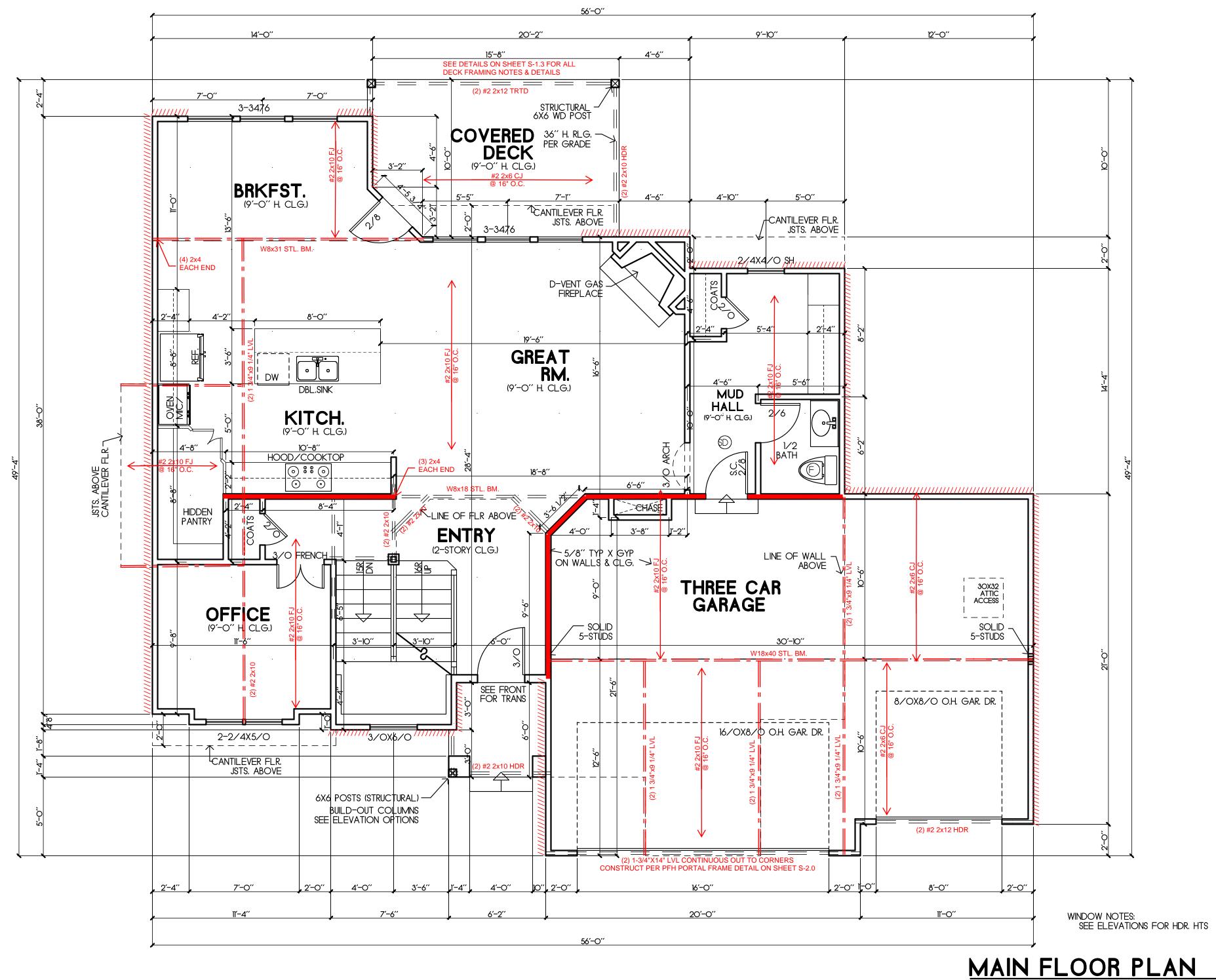
SEE SHEET A6 FOR ROOF FRAMING



PLANS DRAWN BY OTHERS

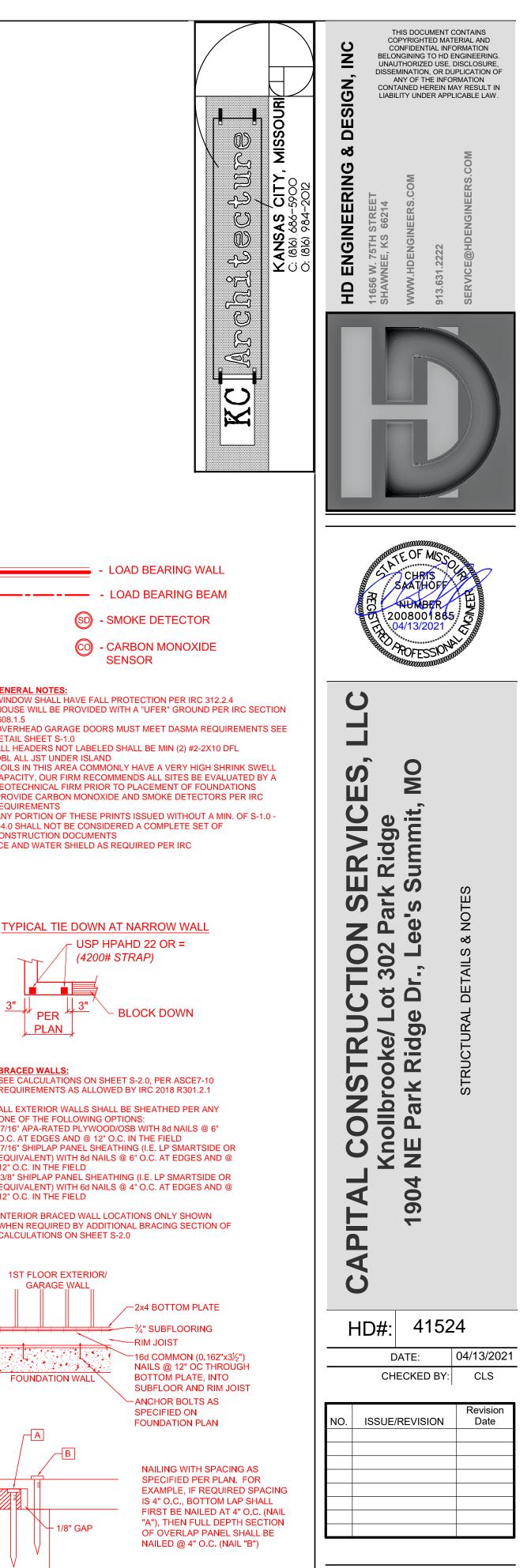
S-0.2





AREA= 1,158 SF

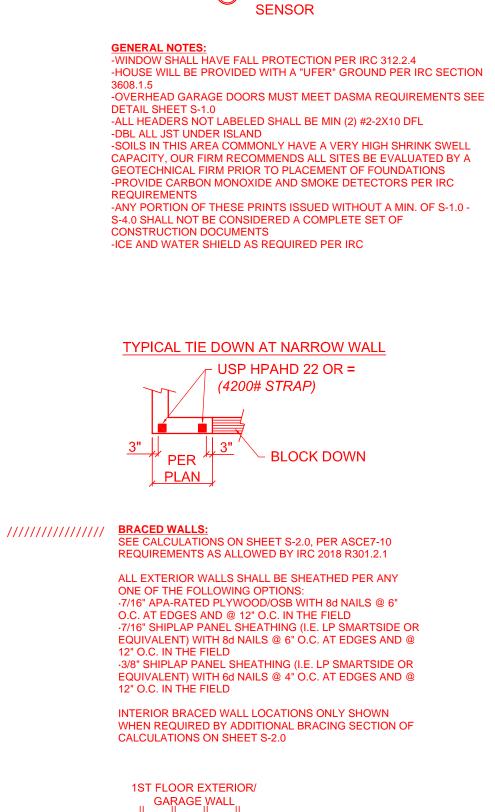
SCALE: 1/4"=1'-0"

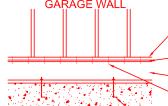


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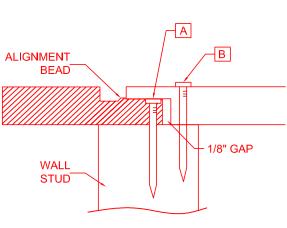
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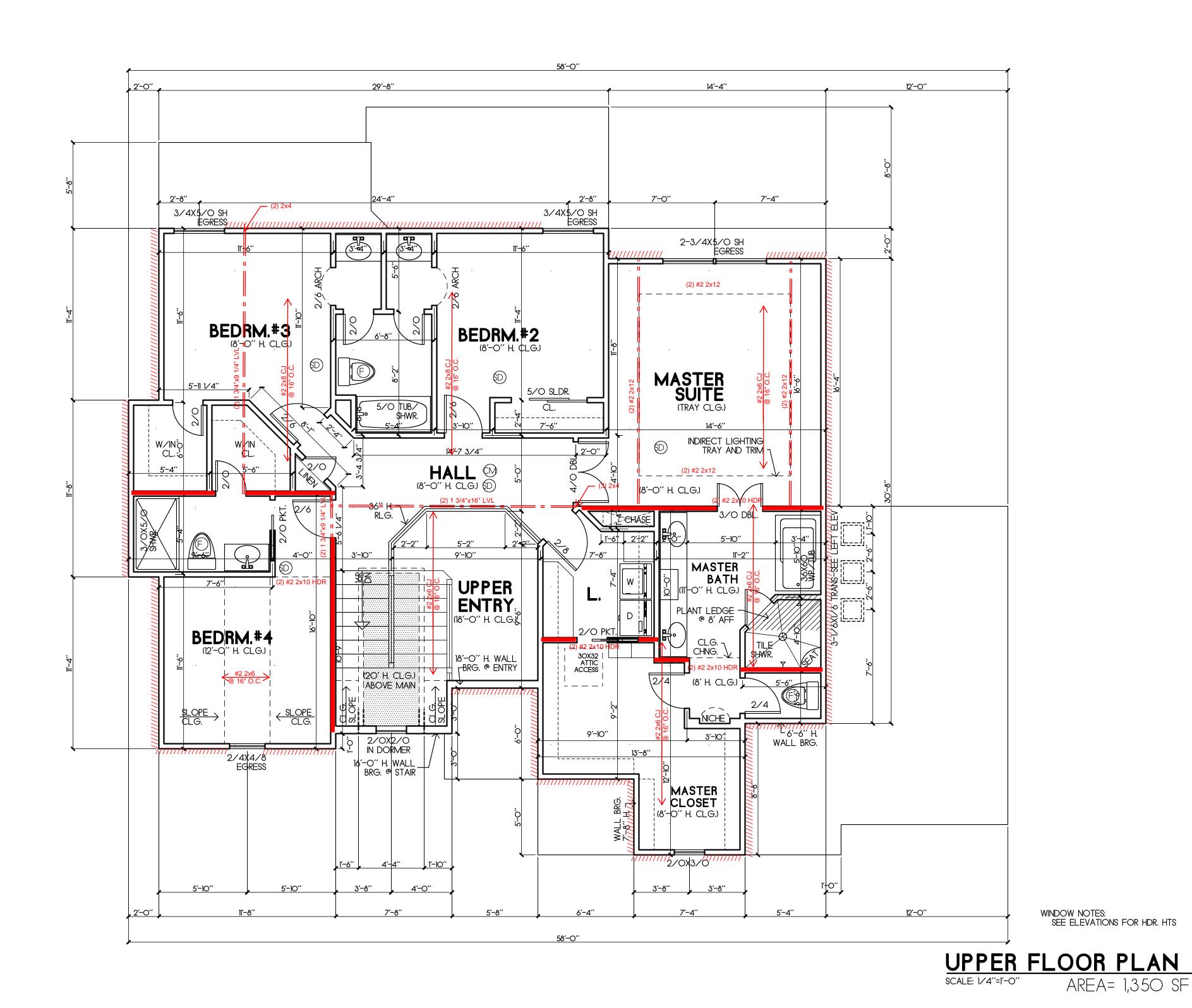


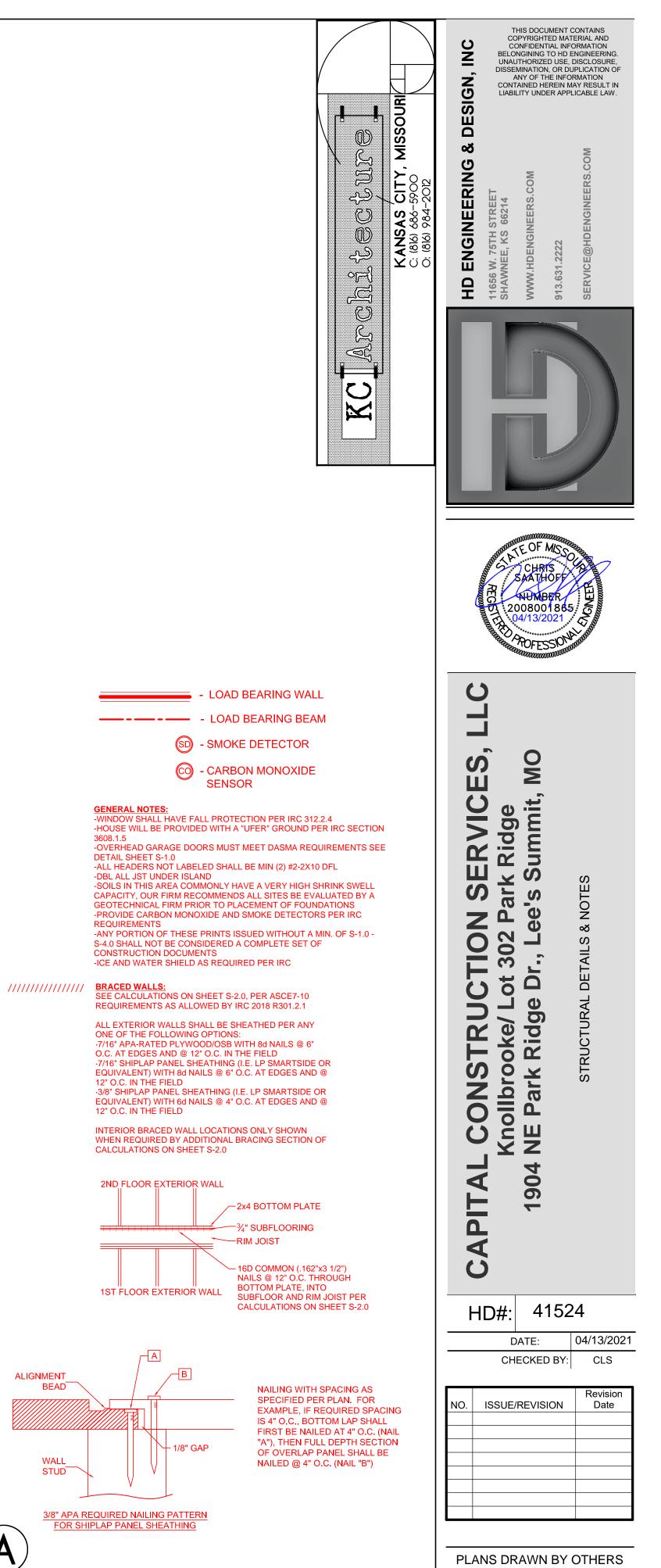


-2x4 BOTTOM PLATE RIM JUIST 16d COMMON (0.162"x3½") NAILS @ 12" OC THROUGH BOTTOM PLATE, INTO DOT ON BRIM JOIST SUBFLOOR AND RIM JOIST - ANCHOR BOLTS AS



3/8" APA REQUIRED NAILING PATTERN FOR SHIPLAP PANEL SHEATHING



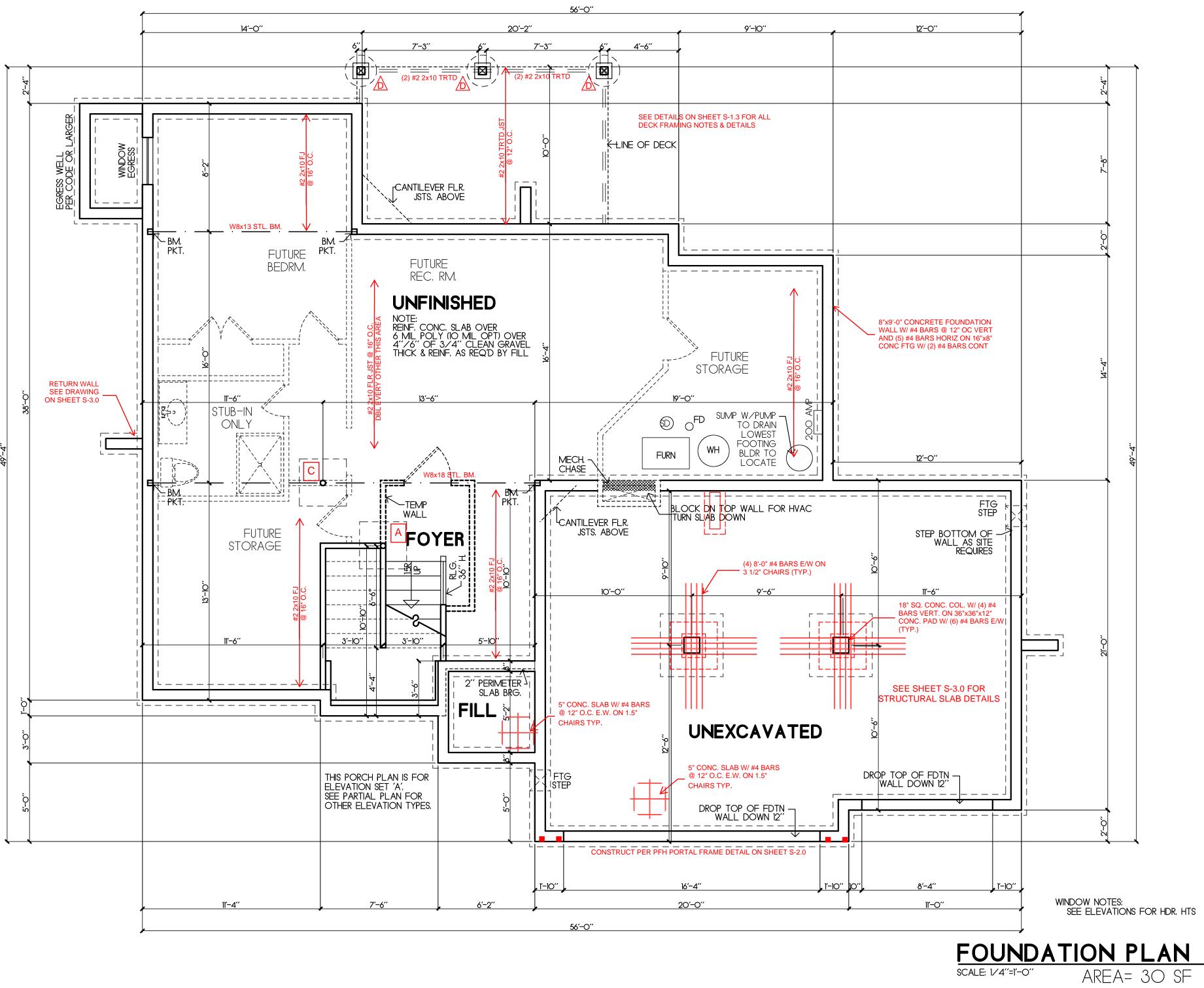


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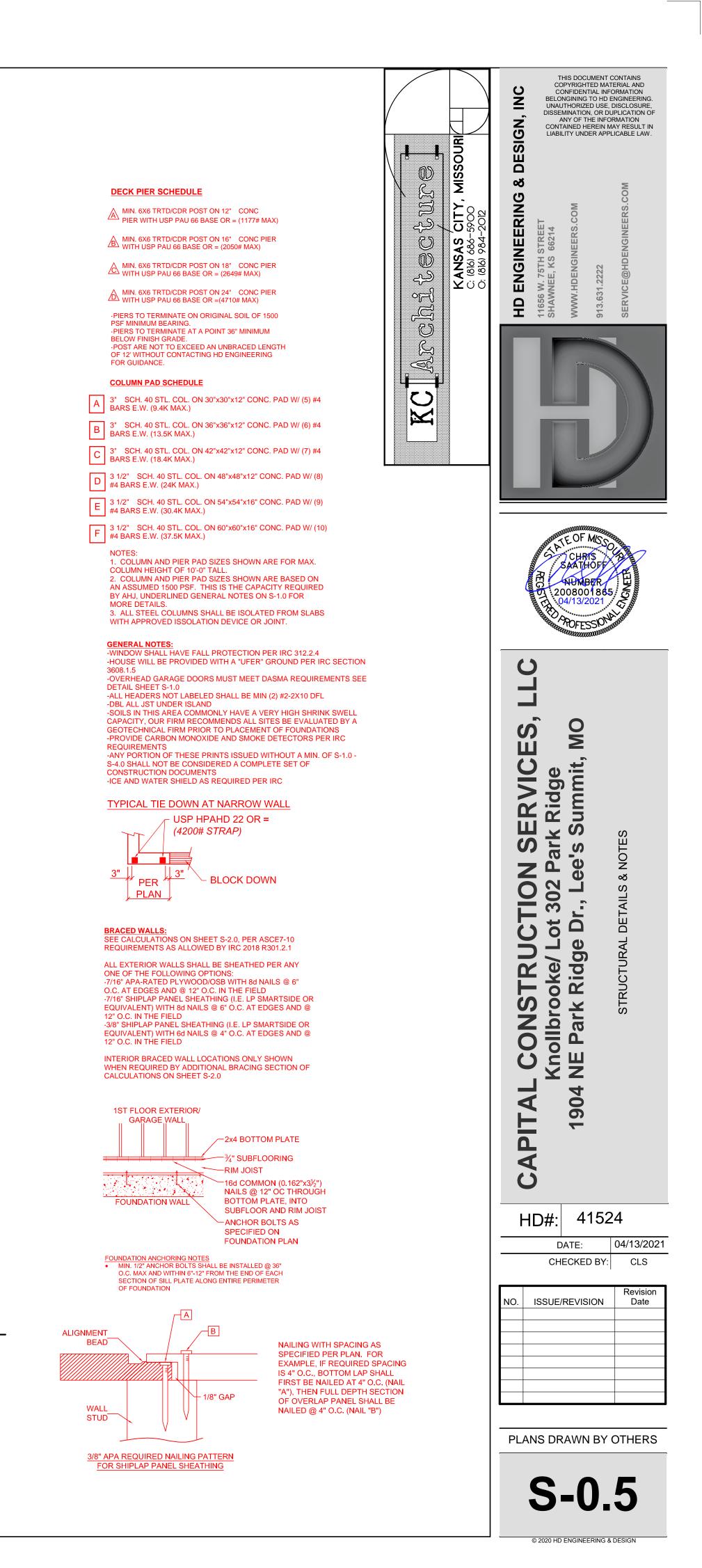
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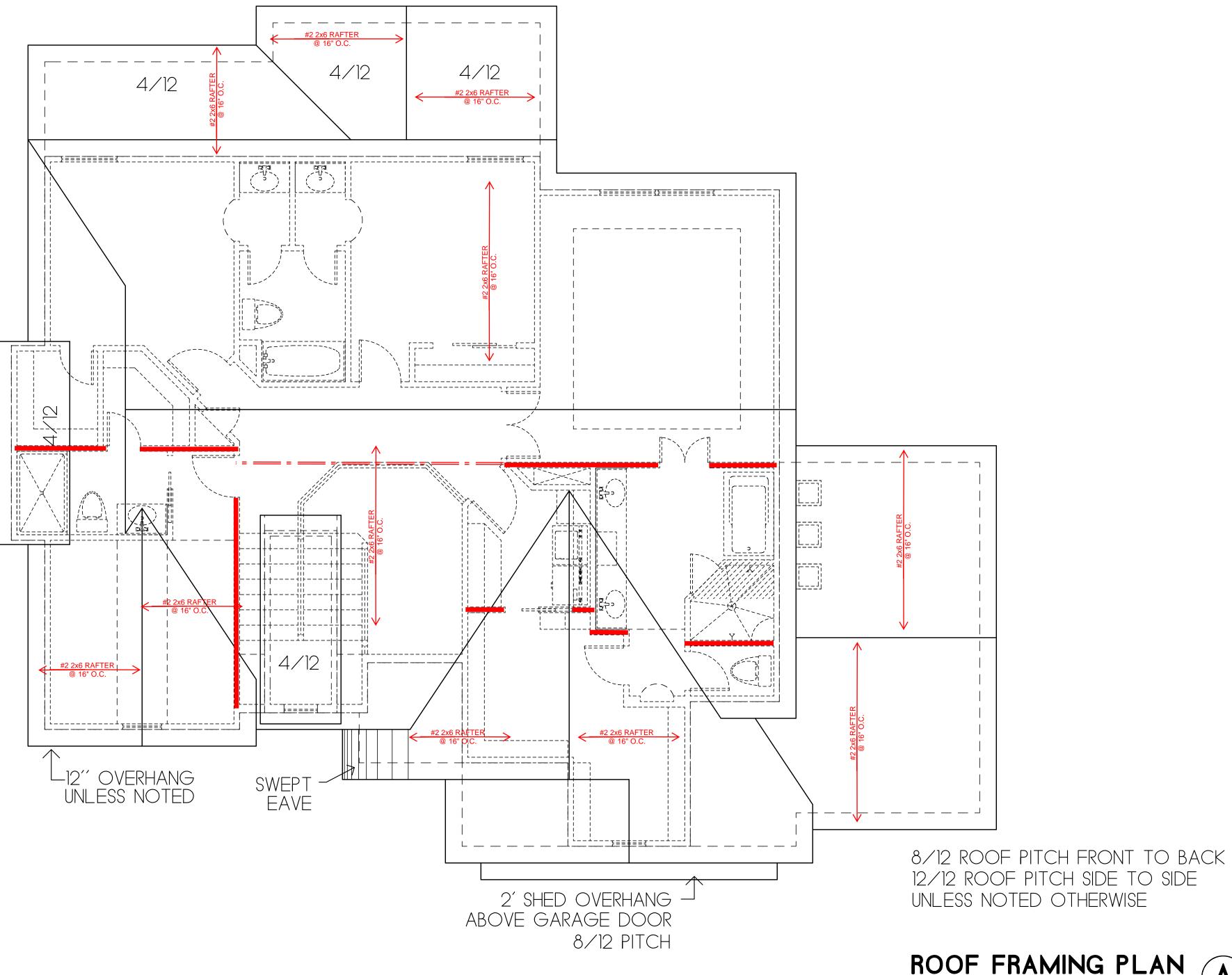
WINDOW NOTES: SEE ELEVATIONS FOR HDR. HTS













ROOF FRAMING PLAN SCALE: 1/4"=1'-O"

CONSULT ARCH./ENGR. >30'-0" SEE DETAILS 1, 5, 6, 7, 11, 12, 13, & 14 ON S-1.2 FOR ROOF FRAMING AND INSULATION OPTIONS ——— – PURLIN

	L BE CONSTRUCTED IN A "T" 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"

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) 2v6 & (1) 2v8	30'-0"						

ONFIGURATION 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"					

= = = = - LOAD BEARING BEAM/ GIRDER PER PLAN

- LOAD BEARING WALL

ONFIGURATION AND PI	ER THE FOLLOWING CHART
URLINS STRUTS SHALL	. BE CONSTRUCTED IN A "T"
ENGTH OF 8'-0"	
LL PURLINS STRUTS SH	HALL HAVE A MAXIMUM UNBRA
HAN A 45 DEGREE ANG	LE WITH THE HORIZONTAL
URLIN STRUTS SHALL E	BE INSTALLED AT NOT LESS
URLIN STRUTS ARE AT	4'-0" O.C.

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

NOTE: CODE MINIMUM L/240 DEFLECTION GREATER THAN CODE RAFTERSSPACINGMAX HORIZONTAL CLEARSPAN#2-2x6@24" O.C.8'-6"

9'-9'

11'-3"

12'-9" 14'-3" 16'-3"

#2**-**2x8

#2-2x8

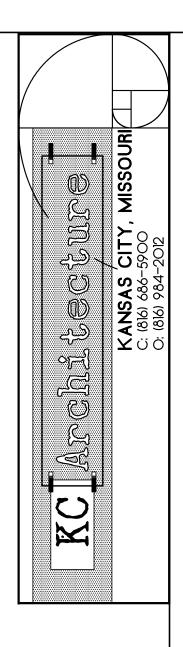
#2-2x10

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"

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

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

NOTES





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	C	DATE:	04/13/2021	
	CH	CLS		
NO.	ISSUE	/REVISION	Revision Date	
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PLANS DRAWN BY OTHERS

S-0.6

ALLOWABLE LOADS FOR PNEUMATIC OR **MECHANICALLY DRIVEN NAILS AND STAPLES**

			PENETRATION	AL	ALLOWABLE LOA		ADS (IN POUNDS)		
FASTENER DESCRIPTION	NAIL GUN NAILS/	WIRE GA.	REQUIRED INTO MAIN MEMBER FOR LATERAL	LATERAL	LATERAL STRENGTH		WITHDRAWAL STRENGTH		
	WIRE DIA.		STRENGTH (IN.)	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	.092	13	1	46		27	23		
6d SINKER NAIL	.092	13	1	40		21	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	1								
6d RING SHANK NAIL									
6d SCREW SHANK NAIL	100	44	1.2/0	00	04	41	32		
8d RING SHANK NAIL	.120	11	1-3/8	89	81				
8d SCREW SHANK NAIL									
10d Cooler Nail			1/2 1-1/2	89	81	36	31		
10d Sinker Nail	.128	10-1/2							
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				113	103	46			
12d Ring Shank Nails	135	10	1-5/8				36		
12d Screw Shank Nails									
10d Common Nails									
12d Common Nails				128	118	46	36		
16d Sinker Nails	.148	9	1-5/8						
20d Box Nails									
30d Box Nails									
16d Ring Shank Nails									
16d Screw Shank Nails	.148	9	1-3/4	128	118	50	40		
16d Screw Shank Nalls 16d Common Nails									
40d Box Nails	.162	8	1-3/4	154	141	50	40		
20d Ring Shank Nails	177	7	0.1/0	170	160	50	17		
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									
30d Sinker Nails	.148	9	2-1/8	170	166	59	47		

SHEATHING SCHEDULE

ALL SHEATHING MATERIALS TO BE APPLIED PERPENDICULAR TO JOISTS AND ENDS STAGGERED

BUILDING COMPONENT	MATERIAL	FASTENING				
ROOF SHEATHING	7/16" PLYWOOD	16 GA X 1 3/4" STAPLES @ 6" OC EDGES & 12" OC IN FIELD				
	1x 4 #3 FURRING	1/2" CROWN STAPLES				
	3/4" T&G YELLOW	14 GA X 1 3/4" STAPLES @ 6" OC EDGES & 12" OC IN FIELD				
FLOOR SHEATHING	PINE PLYWOOD	12.5 GA X 1 1/2" RING OR SCREW SHANK NAILS @ 6" OC EDGES & 12" OC IN FIELD				
WALL COVERING	1/2" GYPSUM SHEATHING	6D COMMON NAILS: 1 5/8" GALVANIZED STAPLES; 1 1/4" SCREWS, TYPE W OR S @ 4" OC EDGES & 8" OC IN FIELD				
CEILING COVERING	1/2" GYPSUM SHEATHING	7" OC NAILED / 12" OC SCREWED W/ 13GA, 1 3/8" LONG, 19/64" HEAD; 0.098 Ø, 1 1/4" LONG, ANG-RINGED; 5D COOLER NAIL, 0.086 Ø, 1 5/8" LONG, 15/64" HEAD; OR GYP BD NAIL, 0.086 Ø, 1 5/8" LONG, 19/64" HEAD				
EXTERIOR WALL	7/16" APA RATED SHEATHING	8D COMMON NAILS @ 6" OC EDGES & 12" OC IN THE FIELD				
SHEATHING	RATED PANEL SIDING, RATED 16" O.C. 7/16" THICK	8D BOX OR SINKER NAILS @ 6" OC EDGES & 12" OC IN THE FIELD				

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EXCEPTIONS:

SEALS.

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

FRAME FASTENING SCHEDULE

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

* JOIST HANGER NOTES: 1) NO JOIST HANGER NAILS ALLOWED FOR TOENAILS, 2) NO GUN NAILS OR SCREWS ALLOWED IN CONNECTORS, 3) 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"x2" 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.

DUCT SEALING METHOD, PER IRC2018 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.

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

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

1. PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE, 2018 IECC, 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

2. WHERE DISCREPANCIES EXIST BETWEEN THE STANDARD COMMENTS, NOTES FOR THE DESIGN PROFESSIONAL OR THE CODE, THE MOST RESTRICTIVE SHALL APPLY. 3. 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. 4. 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 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. 5. DUE TO THE WIDE VARIETY OF SOIL CONDITIONS IN OUR AREA AND THE WIDE VARIETY OF PLASTICITY INDEX AND SOIL BEARING CAPACITIES OUR FIRM RECOMMENDS ALL SITES BE EVALUATED BY HD ENGINEERING OR AN HD ENGINEERING REFERRED GEOTECHNICAL FIRM PRIOR TO PLACEMENT OF ANY "STANDARD" FOUNDATIONS .

FOUNDATION NOTES

REQUIREMENTS BASED ON ACTUAL SITE CONDITIONS 2. FOUNDATION WALLS SHALL BE DAMP-PROOFED PER IRC SECTION R406. 3. 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.

4. FOUNDATION DESIGN SHALL BE BASED ON A MINIMUM SOIL BEARING CAPACITY OF 1500 PSF 5. FOOTINGS SHALL BE A MIN. OF 16" WIDE AND 8" DEEP W/ (2) #4 BARS CONTINUOUS, LOCATED A MIN. OF 3" CLEAR FROM BOTTOM. FOOTINGS SHALL BE A MINIMUM OF 36" BELOW GRADE FOR FROST PROTECTION.

6. COLUMN PADS SHALL BE A MINIMUM OF 24"X24"X8" WITH (3) #4 BARS EACH WAY. 7. FOUNDATION WALLS SHALL BE A MINIMUM 8" THICK W/ MINIMUM #4 BARS @ 24" O.C. HORIZONTAL AND VERTICAL W/ THE TOP BAR WITHIN 8" OF THE TOP OF THE WALL UNLESS NOTED OTHERWISE ON PLAN.

8. REINFORCEMENT SHALL LAP A MINIMUM OF 24"

OF 1/2"

A MIN. 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE FLOOR SLAB AND THE BASE COURSE

DESIGN.

13. BASEMENT FOUNDATION SILL PLATES SHALL BE BOLTED TO THE FOUNDATION W/ A MINIMUM OF 1/2" ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE AND SPACED NOT MORE THAN 3' ON CENTER AND WITHIN 12" OF EACH END PIECE PER IRC SECTION R403.1.6. 14. FOUNDATION WINDOW WELLS FOR SECONDARY MEANS OF EGRESS SHALL PROVIDE A MINIMUM 3'X3' HORIZONTAL AREA. 15. 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 16. 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 DEEPENING OF FOUNDATION ELEMENTS, OR UNDERCUTTING OF UNSUITABLE MATERIALS AND REPLACEMENT WITH ENGINEERED FILL.

STAIRWAY NOTES:

1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7 3/4" RISE AND MIN. 10" RUN. 2. PROVIDE MINIMUM 36" GUARDRAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES AND BALCONIES. 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 SPHERE 4" IN DIAMETER

3. 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 THREADS. 4. HANDRAILS SHALL HAVE A CIRCULAR CROSS-SECTION OF 1 1/4" MINIMUM TO 2" MAXIMUM OR OTHER APPROVED GRASPABLE SHAPE PER IRC SECTION R311.7.8.5 5. PROVIDE A MINIMUM 6'-8" OF HEADROOM CLEARANCE IN STAIRWAYS. 6. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE

7. WINDERS SHALL PROVIDE A MINIMUM TREAD OF AT LEAST 6" AT ANY POINT WITHIN CLEAR WIDTH OF STAIRS. WINDER TREAD PROPORTION TO COMPLY WITH IRCR311.7.5.2.1.

GLAZING NOTES

1. 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" 2. IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72 INCHES ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING OF THE WINDOW SHALL BE A MINIMUM OF 24 INCHES 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 INCH DIAMETER. SPHERE WHERE SUCH OPENINGS ARE LOCATED WITHIN 24 INCHES OF THE FINISHED FLOOR.

FRAMING NOTES:

1. ALL LUMBER SIZES ARE FOR DOUGLAS FIR-LARCH UNLESS OTHERWISE NOTED. 2. ALL HEADERS TO BE A MINIMUM OF (2) #2-2X10'S UNLESS OTHERWISE NOTED.

3. BLOCK CANTILEVERS, DOOR JAMBS, AND OVER BEAMS. 4. ALL HEADERS/BEAMS TO BEAR ON A MINIMUM OF (2) 2X4 POSTS UNLESS NOTED OTHERWISE. 5. INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE

6. WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS, SOLID BLOCKING FOR A MINIMUM OF (2) JOIST SPACES SHALL BE PROVIDED AT A MAXIMUM OF 4' CENTERS 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. 7. IF DUCTS ARE INSTALLED IN THE FIRST JOIST SPACE(S), NAIL 2X4'S FLAT AT 4' CENTERS 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. 8. ALL SILLS AND SLEEPERS SUPPORTED ON CONCRETE OR MASONRY AND FURRING ATTACHED TO CONCRETE OR MASONRY SHALL BE OF DECAY RESISTANT MATERIALS. 9. JOISTS UNDER BEARING PARTITIONS SHALL BE SIZED TO CARRY THE DESIGN LOAD IN ACCORDANCE WITH IRC SECTION R502.4.

10. JOISTS FRAMING FROM OPPOSITE SIDES OVER BEARING SUPPORTS SHALL LAP A MINIMUM OF 3" AND SHALL BE NAILED TOGETHER WITH A MINIMUM 10D FACE NAILS. 11. JOISTS FRAMING INTO A WOOD GIRDER OR BEAM SHALL BE SUPPORTED BY APPROVED FRAMING ANCHORS OR ON MINIMUM 2"X2" LEDGER STRIPS. 12. 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. 13. JOISTS AT SUPPORTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" 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. 14. ALL WALL COVERINGS TO COMPLY WITH IRC SECTION 702 AND 703

15. ALL RAFTER / COLLAR TIES TO COMPLY WITH IRC SECTIONS 804 16. ALL RAFTERS TO HAVE 2x4 COLLAR TIES @ 48" OC IN UPPER 1/3 OF DISTANCE BETWEEN CEILING AND ROOF

17. BLOCKING BETWEEN JOISTS UNDER A PERPENDICULAR LOAD-BEARING WALL IS NOT REQUIRED

18. BOTTOM OF ALL FLOOR ASSEMBLIES SHALL BE PROVIDED WITH A 1/2" GYPSUM WALLBOARD MEMBRANE (IF REQUIRED BY LOCAL CODE) 19. I-JOIST AND FLOOR TRUSS SYSTEMS SHALL BE FIRE PROTECTED PER IRC AS ADOPTED BY AHJ

20. STUDS SHALL BE CONTINUOUS FROM THE FLOOR TO THE ROOF/ CEILING DIAPHRAGM PER IRC 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

1. 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. 2. 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. 3. 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:

1. 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. 2. DOORS BETWEEN THE GARAGE AND DWELLING - MINIMUM 1 3/8" SOLID WOOD, SOLID OR HONEY-COMBED CORE STEEL DOOR NOT LESS THAN 1 3/8" THICK, OR 20 -

MINUTE FIRE - RATED EQUIPPED WITH SELF CLOSING DEVICE PER IRC2018 R302.5.1. 3. 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 IRC2018 R301.2.1

4. 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.

5. 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"X.120" NAILS AT 7" CENTERS STAGGERED WITH (7) 3 1/4"X.120" NAILS THRU THE JAMB INTO THE HEADER, MINIMUM 2X8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

6. ANY ATTACHED GARAGE TO THE MAIN HOUSE SHALL BE PROVIDED WITH A SINGLE HEAT DETECTOR. HEAT DETECTOR SHALL BE HARDWIRED AND INTERCONNECTED WITH THE HOUSEHOLD SMOKE ALARM SYSTEM. HEAT DETECTOR SHALL BE LISTED FOR THE AMBIENT ENVIRONMENT AND INSTALLED PER MANF. INSTRUCTIONS.

MECHANICAL/INSULATION: 1. BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.1 OR THE 2018 IECC. (SEE S-6.0 FOR MORE DETAILS)

VENTILATION 1. 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 1/150 OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS AREA LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED THE REQUIRED AREA MAY BE REDUCED TO 1/300.

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

9. INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB. 10. INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE BY A SEPARATION THIS DOCUMENT CONTAIN

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11. CONCRETE FLOOR SLABS ON GRADE, SHALL BE A MINIMUM 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, OR CRUSHED STONE. BASEMENT SLABS SHALL HAVE

12. FLOOR SLABS SUPPORTED BY FILL CONSISTING OF MORE THAN 24" OF GRANULAR FILL OR 8" OF EARTH SHALL BE REINFORCED PER A SEPARATE ENGINEERING

TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

									THE DWELLING SHALL COMPLY WITH THE FOLLOWIN	
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF ^{a,b,c} FASTENER	SPACING OF FASTENERS	ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF a,b,c FASTENER		F FASTENERS INTERMEDIATE c, e SUPPORTS (INCHES)	AREA	MIN MIN DEAD LIVE LOAD LOA
		ROOF 4-8D BOX (2 1/2" X 0.113")			WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTER	RIOR WALL SHEATHING TO FRAMING AND PARTICLEBOAR RUCTURAL PANEL EXTERIOR WALL SHEATHING TO WALL	D WALL SHEATHING TO		EXTERIOR BALCONIES	10 60
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	4-8D BOX (2 1/2" X 0.113") 3-8D (2 1/2" X 0.113") 3-10D (3"X0.128")			[SEE TABLE R002.3(3) FOR WOOD STR		-			10 40
2	CEILING JOISTS TO PLATE, TOE NAIL	3-3"X 0.131" NAILS	PER JOIST, TOE NAIL	30	3/8"- 1/2"	6D COMMON (2"X 0.113" NAIL (SUBFLOOR, WALL) 8D COMMON (2 1/2" X 0.131 NAIL (ROOF); or RSRS-01 3/8" X 0.113" NAIL (ROOF) j		12 f	CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE 3:12 OR LESS	10 10
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.52	4-10D BOX (3"X 0.128") 3-16D COMMON (3 1/2"X 0.162") 4-3"X 0.131"NAILS	FACE NAIL	31	19/32" - 1"	8D COMMON NAIL (2 1/2" X 0.131; or RSRS-01; 2 3/8" 0.113) NAIL ROOF j	• X 6	12 f	CEILING JOISTS / ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE OVER 3:12 CEILING JOISTS / ATTICS WITH STORAGE - DOOR	10 10 10 20
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) SEE SECTION R802.5.2 AND TABLE R802.5.2)	TABLE R802.5.2	FACE NAIL	32	1 1/8" - 1 1/4"	10D COMMON NAIL (3" X 0.148) NAIL; or 8D (2 1/2" > 0.131") DEFORMED NAIL	× 6	12	PULL DOWN LADDER ACCESS ROOMS: NON-SLEEPING	10 40
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" X 20GA. RIDGE STRAP TO RAFTER	4-10D BOX (3" X 0.128") 3-10D COMMON (3" X 0.148") 4-3" X 0.131" NAILS	FACE NAILS EACH RAFTER			OTHER WALL SHEATHING ^g			ROOMS: SLEEPING ROOF: LIGHT ROOF COVERING	10 30 10 20
6	RAFTER OR ROOF TRUSS TO PLATE	3-16D BOX NAILS (3 1/2" X0.135") 3-10D COMMON NAILS (3" X 0.148" 4-10D BOX (3" X 0.128" 4-3" X0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS ¹	33	1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOF NAIL, 7/16" HEAD DIAMETE OR 1 1/4" LONG 16GA. STAPLE WITH 7/16" OR 1" CROWN	3	6	ROOF: HEAVY ROOF COVERING / CONCRETE / TILE / SLATE GUARDRAILS, HANDRAILS	20 20 200# LL NORMA
	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF	4-16D(3 1/2" X 0.135"); OR 3-10D COMMON (3" X 0.148") 4-10D BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS		34	25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOF NAIL, 7/16" HEAD DIAMETE OR 1 1/2" LONG 16GA. STAPLE WITH 7/16" OR 1" CROW	3	6	HEAVY ROOF COVERING MATERIAL (TILE, CONCRETE, BE USED UNLESS 20 PSF DEAD LOAD AND HEAVY ROO ROOF PLAN. IF HEAVY ROOFING IS TO BE USED AND N	OF IS NOTED ON THE NOT NOTED ON THE I
7	RAFTER TO MINIMUM 2" RIDGE BEAM	3-16D(3 1/2" X0.135"); OR 2-16D COMMON (3 1/2" X0.162") 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	- TOE NAIL	35	1/2" GYPSUM SHEATHING d	1 1/2" GALVANIZED ROOF NAIL, STAPLE GALVANIZE 11/2" LONG; 1 1/4" SCREWS, TYPE W or S	ED, 7	7	PLAN NOTIFY ENGINEER PRIOR TO ANY CONSTRUCTIO FOUNDATION AND SITE WORK. IF THE PLAN HAS BEEN ROOF LOADS IT WILL BE NOTED IN THE ROOF NOTES C	N DESIGNED FOR HE
		WALL		36	5/8" GYPSUM SHEATHING d	1 3/4" GALVANIZED ROOF NAIL; STAPLE GALVANIZE 1 5/8" LONG; 1 5/8" SCREWS, TYPE W or S	ED, 7	7		
8	STUD TO STUD (NOT BRACED WALL PANELS)	16D (3 1/2" X 0.162")	24" OC FACE NAIL		WOOD STRUCTURAL PANELS	I S, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMIN	IG			
	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS 16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	16" OC FACE NAIL 12" OC FACE NAIL	37	3/4" AND LESS	6D DEFORMED (2" X 0.120") NAIL OR	6	12	<u>COLUMN SCH</u>	EDULE
9	CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 1/2" X 0.162")	12 OC FACE NAIL	51	JA AND LESS	8D COMMON (2 1/2" X 0.131") NAIL	U	12	BASED ON FOOTING SIZE (ASSUME	. 1500 PSF SOIL)
10	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16D COMMON (3 1/2" X 0.162") 16D BOX (3 1/2" X 0.135")	16" OC EACH EDGE FACE NAIL 12" OC EACH EDGE FACE NAIL	38	7/8" - 1"	8D COMMON (2 1/2" X 0.131") NAIL OR 8D DEFORMED (2 1/2" X 0.120") NAIL	6	12	PAD SIZE REINFORCEMENT COL. MIN.	
11	CONTINUOUS HEADER TO STUD	5-8D BOX (2 1/2" X 0.113") or 4-8D COMMON (2 1/2" X 0.131") 4-10D BOX (3" X 0.128")	TOE NAIL	39	1 1/8" - 1 1/4"	10D COMMON (3" X 0.148") NAIL OR 8D DEFORMED (2 1/2" X 0.120") NAIL	6	12	24x24x12 (4) #4 BARS E/W 3" 30x30x12 (5) #4 BARS E/W 3"	SCH40 6 SCH40 9
		16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL	For SI: 1	inch = 25.4mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi =	6.895 MPa.			36x36x12 (6) #4 BARS E/W 3"	SCH40 13
12	TOP PLATE TO TOP PLATE	10D BOX (3" X 0.128") OR 3" X 0.131" NAILS	12" OC FACE NAIL						42x42x14 (7) #4 BARS E/W 3 1/2"	
13	DOUBLE TOP PLATE SPLICE	8-16D COMMON (3 1/2" X 0.162"); or 12-16D BOX (3 1/2" X 0.135"); or 12-10D BOX (3" X 0.128"); or 12-3" X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)		TABLE R 602.3(5) SIZE, BEARING WALLS	HEIGHT, AND SPACING			48x48x16 (8) #4 BARS E/W 3 1/2' 54x54x16 (9) #4 BARS E/W 3 1/2'	" SCH40 30
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL		LATERALLY MAXIMUM SPACING MAXI	MUM SPACING MAXIMUM SPACING MAXIMUM SF			60x60x18 (10) #4 BARS E/W 3 1/2'	" SCH40 37
	(NOT AT BRACED WALL PANELS	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	12" OC FACE NAIL	STUD	UNSUPPORTED WHERE SUPPORTING A WHER SIZE STUD HEIGHT a ROOF-CEILING ONE F	E SUPPORTING WHERE SUPPORTING WHERE SUPF FLOOR, PLUS A TWO FLOORS, PLUS A ONE FLOOR	HEIGHT _a HEIG	TED STUD UNSUPPORTED HT a HEIGHT	STUD COLUMN CONNECTION TO STEEL BEAMS SHAL	LL BE WITH A CLIP F
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162"); or 4-3" X 0.131" NAILS	3, 2, OR 4 EACH 16" OC FACE NAIL	/I)	HABITABLE ATTIC ASS ASSEMBLY, ONLY HAB	OF-CEILING ROOF-CEILING (inches SEMBLY OR A ASSEMBLY OR A ITABLE ATTIC HABITABLE ATTIC EMBLY (inches) ASSEMBLY (inches)	s) (fee	t) (feet)	ALL FOUR TAB EARS BENT AROUND THE BOTT BEARING PLATE, FOUR HOLES SHALL BE DRILL STEEL BEAM TO MATCH THE HOLE PATTERN C SHOULD THEN BE INSTALLED WITH A FLAT WA	LED IN THE BOTTOM OF THE PLATE. 1/2" > ASHER, LOCK WASHE
16	TOP OR BOTTOM PLATE TO STUD	4-8D BOX (2 1/2" X 0.113"); or 3-16D BOX (3 1/2" X0.135"); or 4-8D COMMON (2 1/2" X0.131");or 4-10D BOX (3" X0.128"); or 3-3" X 0.131" NAILS	TOE NAIL				-		EACH OF THE HOLES. THE POST CAP MAY BE ACCORDANCE WITH AWS D1.1-92 AS AN ALTER INSPECTED BY AN AWS-CERTIFIED INSPECTOR	WELDED TO THE ST RNATIVE, AND WOUL
		3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162"); or 3-10D BOX (3" X0.128");or 3-3" X 0.131" NAILS	END NAIL			$\vdash \dashv \mid \vdash \dashv \mid \vdash \dashv$				
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" X 0.128"); or 2-16D COMMON (3 1/2" X0.162"); or 3-3" X 0.131" NAILS	FACE NAIL	2x			10	10		
18	1" BRAVE TO EACH STUD AND PLATE	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1 3/4"	FACE NAIL	2x 3x	`	16 c 24 24 16 24			ENGINEERED LU	MBER
19	1" X 6" SHEATHING TO EACH BEARING	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL	2x 2x		24 24 24 16 24	16 20	24 24	MIN. DESIGN REQUIREMENTS	s
		3-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 3 STAPLES, 1"		a. LISTE	INCH = 25.4mm, 1 FOOT = 304.8mm D HEIGHTS ARE DISTANCES BETWEEN POINTS OF LATERAL SUP				F _b (psi) E (psi)	F _v (psi)
20	1" X 8" AND WIDER SHEATHING TO EACH BEARING	CROWN, 16GA., 1 3/4" LONG	FACE NAIL	ON NOT I UNSUPPO	ESS THAN ONE SIDE OR BRIDGING SHALL BE INSTALLED NOT G. DRTED HEIGHT ARE PERMITTED WHERE IN COMPLIANCE WITH E	REATER THAN 4 FEET APART MEASURED VERTICALLY FRO	OM EITHER END OF THE	STUD. INCREASES IN	LVL 2600 1.8x10	285
		WIDER THAN 1" X 8" 4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 4 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG			L NOT BE USED IN EXTERIOR WALLS				GLULAM 2400 1.8x10	190
		FLOOR			BITABLE ATTIC ASSEMBLY SUPPORTED BY 2X4 STUDS IS LIMITED ED TO 2X6 OR THE STUDS SHALL BE DESIGNED IN ACCORDANCI		LAUCEDO 32 FEEI, IHE V	VALL STUDS SHALL BE	PARALAM 2600 2.0x10	290
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 3-3" X 0.131: NAILS	TOE NAIL		NIMUM MECHANICAL EQU				L / VAULTED CEILING	
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE	8D BOX (2 1/2" X 0.113")	4" OC TOE NAIL	<u>VA</u>	<u>_UES BY COMPONENT, P</u>	ER IRC2018 N1103.6.1		<u>FRAMINO</u>	G AND INSULATION	
	(ROOF APPLICATIONS ALSO)	8D COMMON (2 1/2" X 0.131"); or 10D BOX(3" X0.128") or 3-3" X 0.131" NAILS	6" OC TOE NAIL					MINIMUM R-38 IN	ISULATION REQUIRED, SEE DETAIL 14/S-1.2	
23	1" X 6" SUBFLOOR OR LESS TO EACH JOIST	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 2 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL		FAN LOCATION MINIMUM (CFM) C	IUM EFFICACY AIR FLOW RATE FM/WATT MAXIMUM (CFM)	BETWEEN THE NOTE: RAFTER	TOP OF THE INSULATION AND SIZES SPECIFIED ON PLANS A	O THE BOTTOM OF THE RAFTERS, A MINIMUM 1" AIR SPAC THE SHEATHING FOR VENTILATION (R806.3) RE THE MINIMUM REQUIRED FOR STRUCTURAL PURPOSE	
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162")	BLIND AND FACE NAIL		RANGE HOOD ANY 2.8	CFM/WATT ANY	OR ADEQUATE I	DEPTH IS NOT ADEQUATE FOR FURRING SHALL BE USED TO (OR MINIMUM INSULATION VALUE, RAFTER SIZES WILL NEED OBTAIN THE MINIMUM JOIST DEPTH FOR THE REQUIRED IN D IT SHALL BE VERIFIED THAT THE RIDGE BE A MINIMUM OF	NSULATION. IN
25	2" PLANKS (PLANK & BEAM-FLOOR AND ROOF)	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162")	AT EACH BEARING, FACE NAIL			CFM/WATT ANY CFM/WATT <90		SULATION VALUE 2x6	ED. (SEE CHART BELOW)	2x12
26	BAND OR RIM JOIST TO JOIST	3-16D COMMON (3 1/2" X 0.162"); or 4-10D BOX (3" X0.128") or 4-3" X 0.131" NAILS; or 4-3" X 14GA. STAPLES, 7/16" CROWN	END NAIL			CFM/WATT ANY	1" AIR SPAC	E (FIBERGLASS) R-13, 3 1		R-38, 10 1/4"
		20D COMMON (4" X 0.192"); or	NAIL EACH LAYER AS FOLLOWS: 32" OC AT TIP AND BOTTOM AND STAGGERED 24" OC FACE NAIL AT TOP AND BOTTOM	Μ	INIMUM INSULATION & F	ENSTRATION VALUES	BY COMF	<u>PONENT, PE</u>	R IRC2018 N1102.1.2	
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10D BOX (3" X 0.128"); or 3" X 0.131" NAILS	24" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES							-
		AND: 2-20D COMMON (4" X 0.192"); or 3-10D BOX (3" X 0.128; or 3-3" X 0.131" NAILS	FACE NAIL AT END AND AT EACH SPLICE	CLIMATE		TED METAL INSULATED WOOD CEILING WOOD FRAM U-VALUE DOOR U-VALUE R-VALUE WALL R-VA	MED FLOOR BA	SEMENT SLAB R-VALUE L R-VALUE & DEPTH	CRAWL SPACE DUCTWORK OVER DUCTWORK (ALL WALL R-VALUE OUTSIDE R-VALUE OTHER) R-VALUE	
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16D BOX (3 1/2" X 0.135"): or 3-26D COMMON (3 1/2" X 0.162"); or 4-10D BOX (3" X 0.128"); or 4-3" X 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL	4 EXCEPT	DOOR	O.60 O.50 49 15	10 10 CO		10 CONTINUOUS86OR 13 CAVITY86	
29	BRIDGING OR BLOCKING TO JOIST	2-10D BOX (3" X 0.128"): or 2-8D COMMON (2 1/2" X 0.131" or 2-3" X 0.131") NAILS	EACH END, TOE NAIL	2) 3)	BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED W RECESSED LIGHTING SHALL BE SEALED TO PREVENT LEAKAGE ALL DUCTS, AIR HANDLERS, FILTER BOXES, AND BUILDING CAVI	BETWEEN THE CONDITIONED SPACE AND UNCONDITIONE				
a. ALL NAILS	ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS U	SED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERA	GE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK D	IAMETER OF 0.192 INCH (201	ס פיססר ווו ופייסט אוניא אוניא דער דבראא יישו וויס פיססר ס				ANS REQUIRE THAT THE CONTRACTOR POSSESSES COMP	

a. ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20D COMMON), NAILS FOR SHANK DIAMETERS LARGER THANK 0.142 INCH BUT NOT LARGER THANK 0.177 INCH, AND 100 KSI FOR SHANK DIAMETER OF 0.142 INCH OR LESS. b. STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16 - INCH ON DIAMETER CROWN WIDTH.

b. STAFLES ARE TO GAGE WIRE AND TAKE A MINIMUM // TO - INCENT ON DAMA FER CROWN WITH TO THE CONTROL OF THE CONTRO

HEIGHT IS MORE THAN 25 FEET, UP TO 35 FEET MAXIMUM. g. FOR REGIONS HAVING BASIC WIND SPEED OF 100 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER. WHEN BASIC WIND SPEED IS GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6 INCHES ON CENTER FOR MINIMUM 48-INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS; AND 4 INCHES ON CENTER TO GABLE END WALL FRAMING. h. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C 208. i. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND READERS AND REQUIRED BLOCKING. BLOCKING OF FASTENERS ON ROOF SHEATHING PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BY OTHER PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING. J. 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 CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.

<u>CONTINUED TABLE R602.3(1)</u> FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

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 HE 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.

DESIGN LOADS (F	<u> 28F)</u>
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	MINI	BAINI
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	NORMAL

				•
PAD SIZE	REINFORCEMENT	COL. MIN.	COL. TYPE	MAX. LOAD
24x24x12	(4) #4 BARS E/W	3"	SCH40	6K
30x30x12	(5) #4 BARS E/W	3"	SCH40	9.4K
36x36x12	(6) #4 BARS E/W	3"	SCH40	13.5K
42x42x14	(7) #4 BARS E/W	3 1/2"	SCH40	18.4K
48x48x16	(8) #4 BARS E/W	3 1/2"	SCH40	24.0K
54x54x16	(9) #4 BARS E/W	3 1/2"	SCH40	30.4K
60x60x18	(10) #4 BARS E/W	3 1/2"	SCH40	37.5K

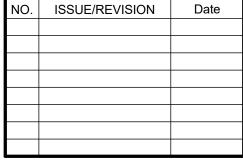
P POST CAP WITH HE BEAM. FOR A DM FLANGE OF THE 2" X 2" BOLTS SHER, AND A NUT IN STEEL BEAM IN ULD NEED TO BE

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





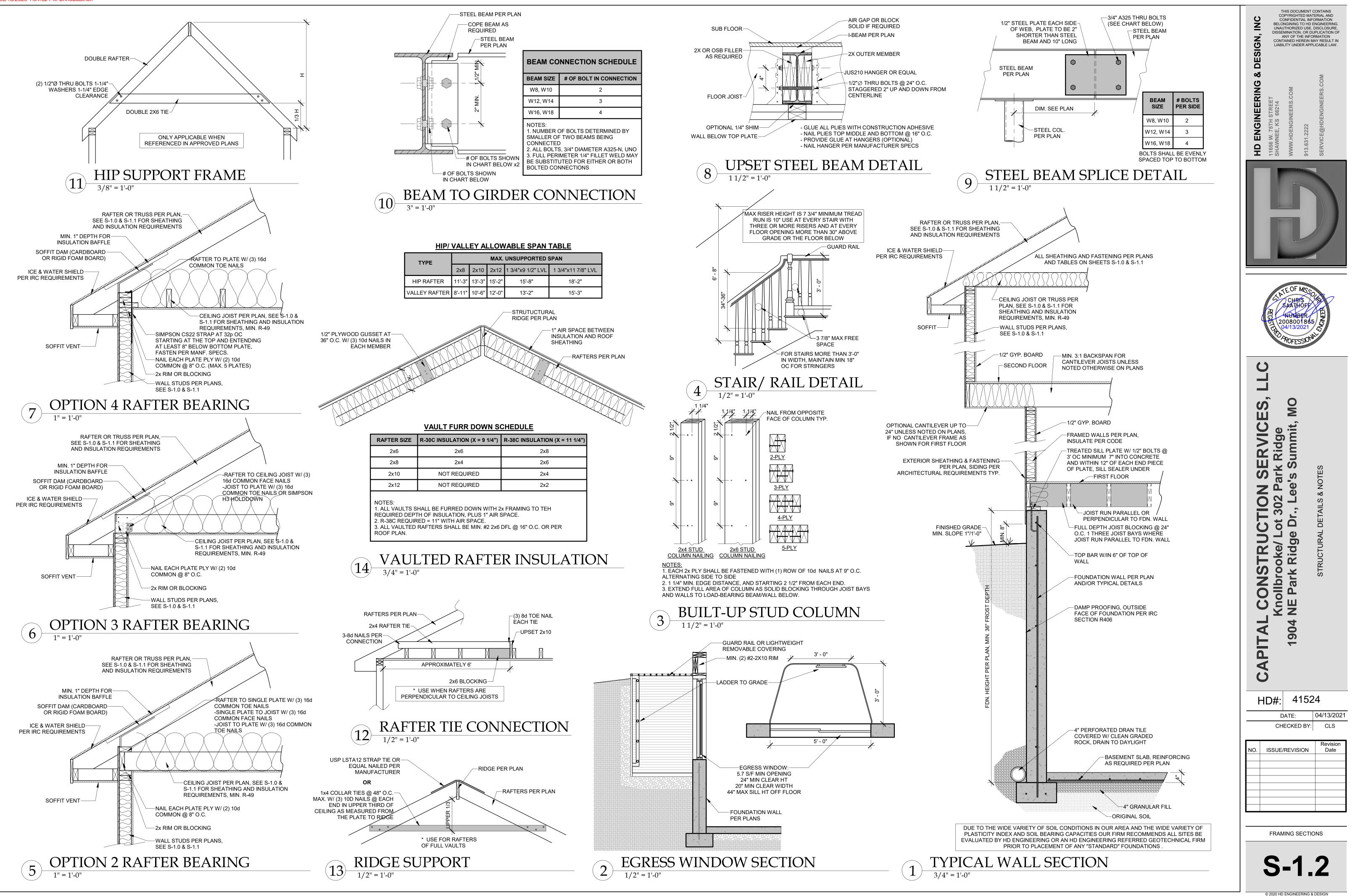
O MO S Ш ummit, VICI <u>d</u> <u>d</u> ï ш S ŝ N SI Park ee's Se t 302 Pa Dr., C TRUC oke/ Lo Ridge SONS oollbroo Knc NE 0 904 4 F Ω C 41524 HD#: 04/13/2021 DATE: CHECKED BY: CLS Revision **ISSUE/REVISION** Date

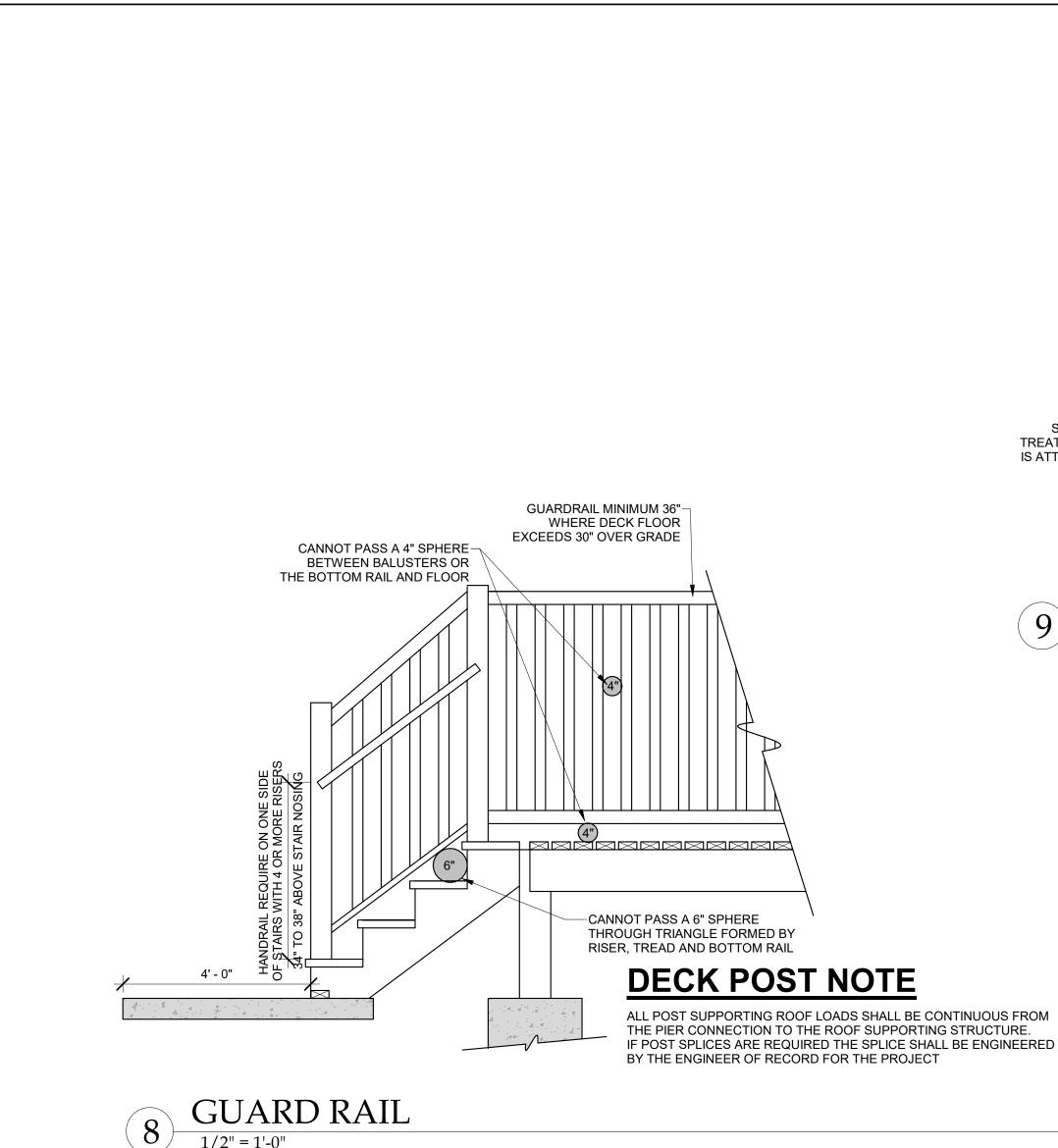


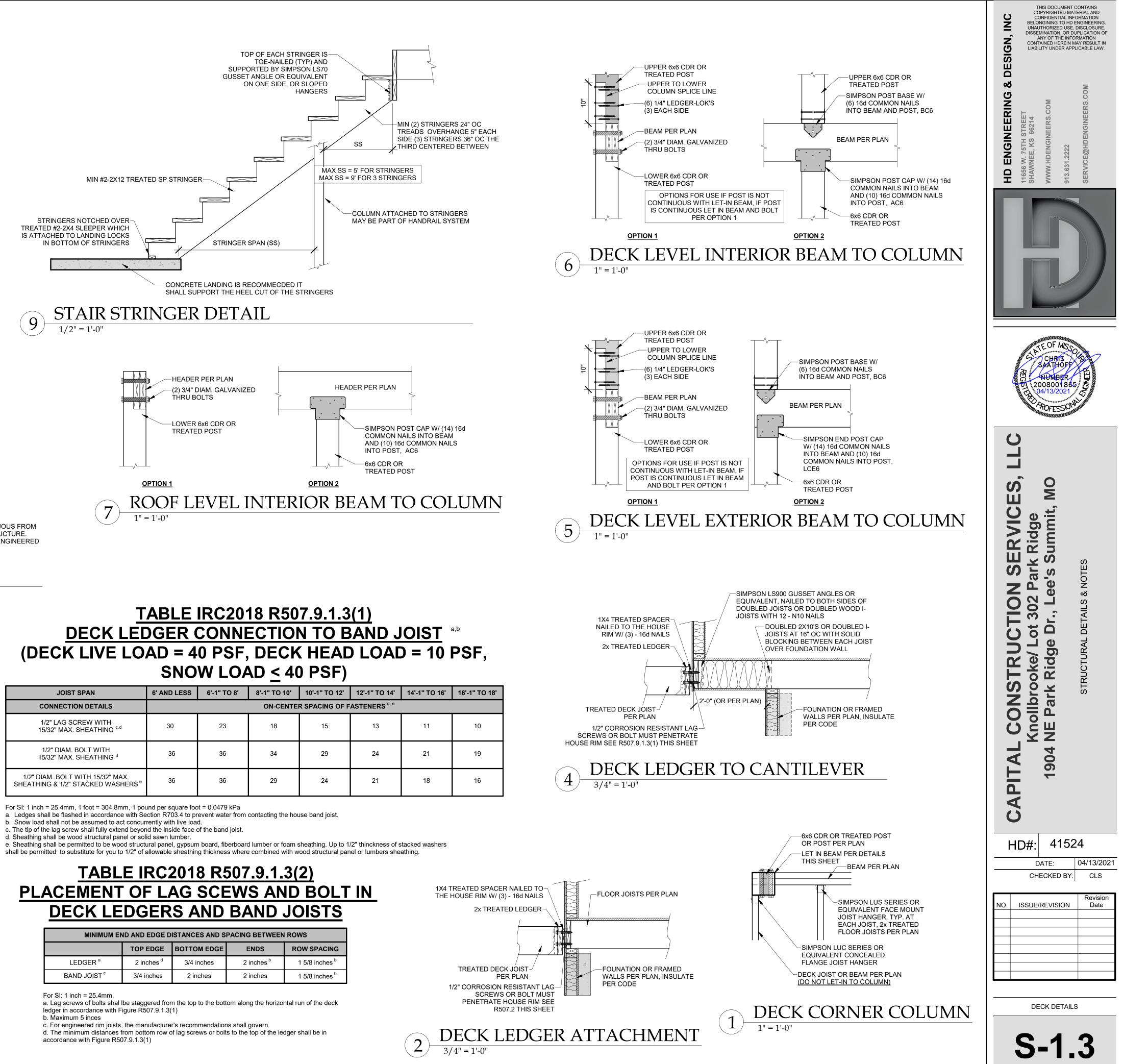
GENERAL NOTES



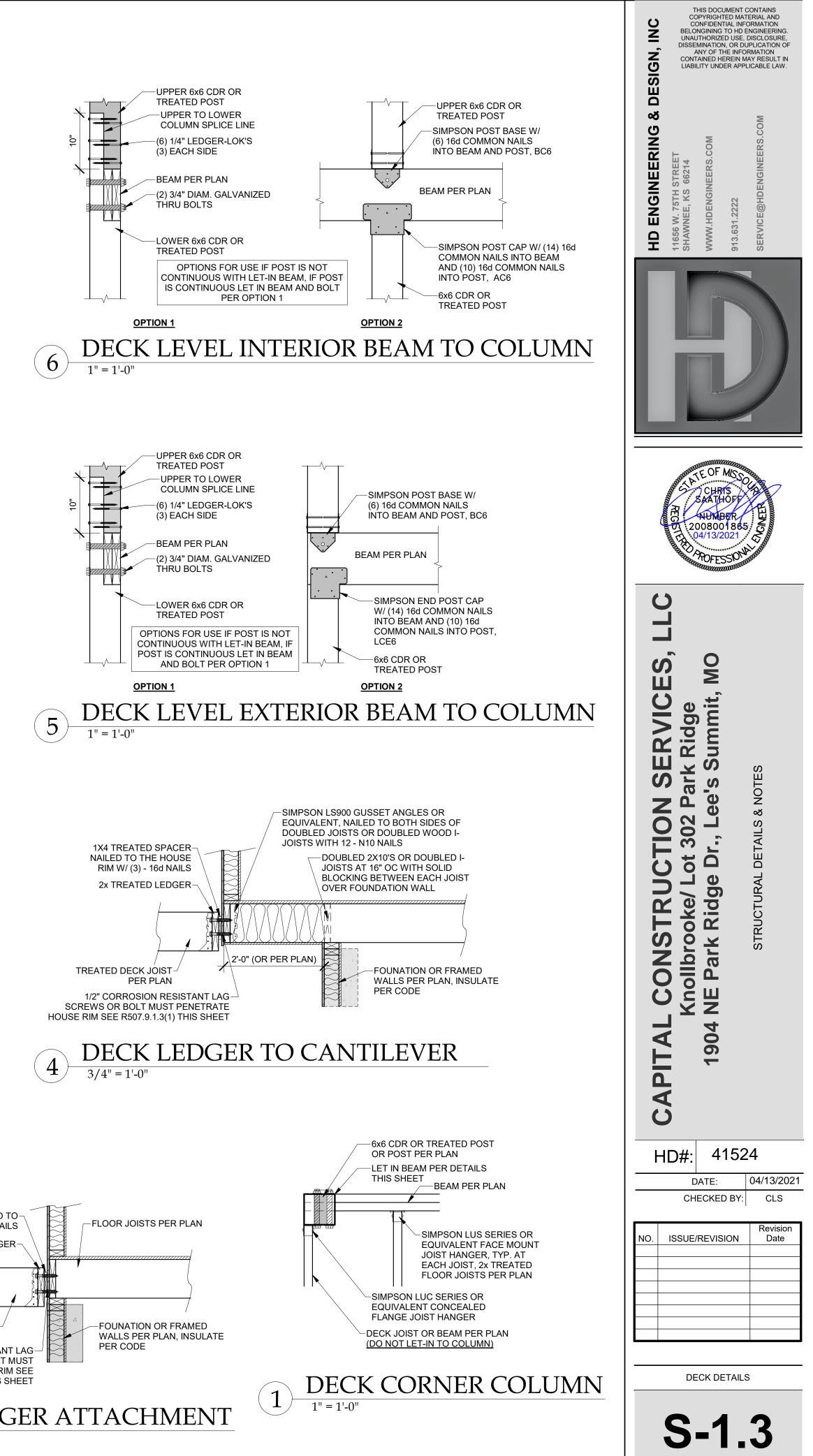
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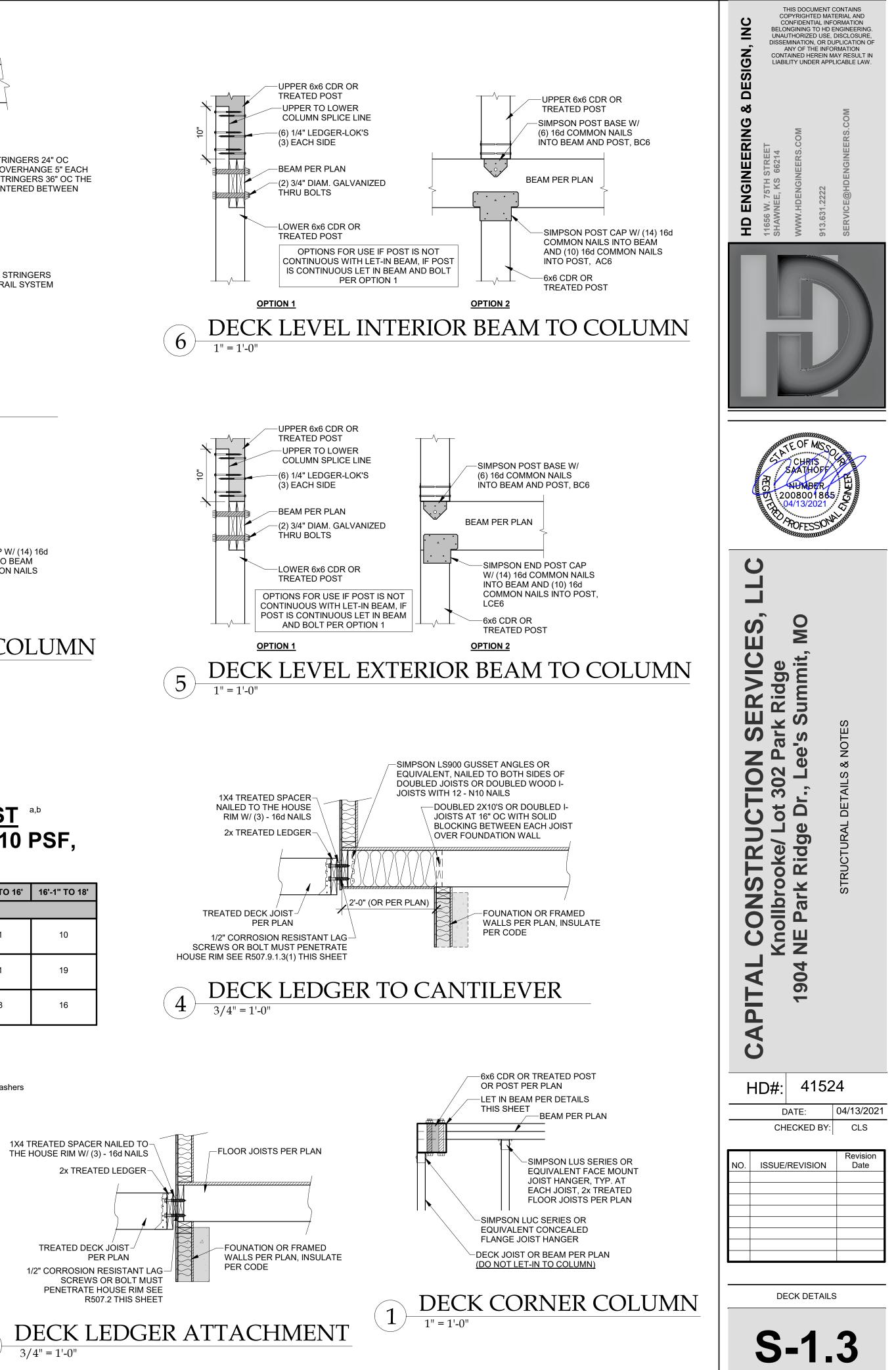




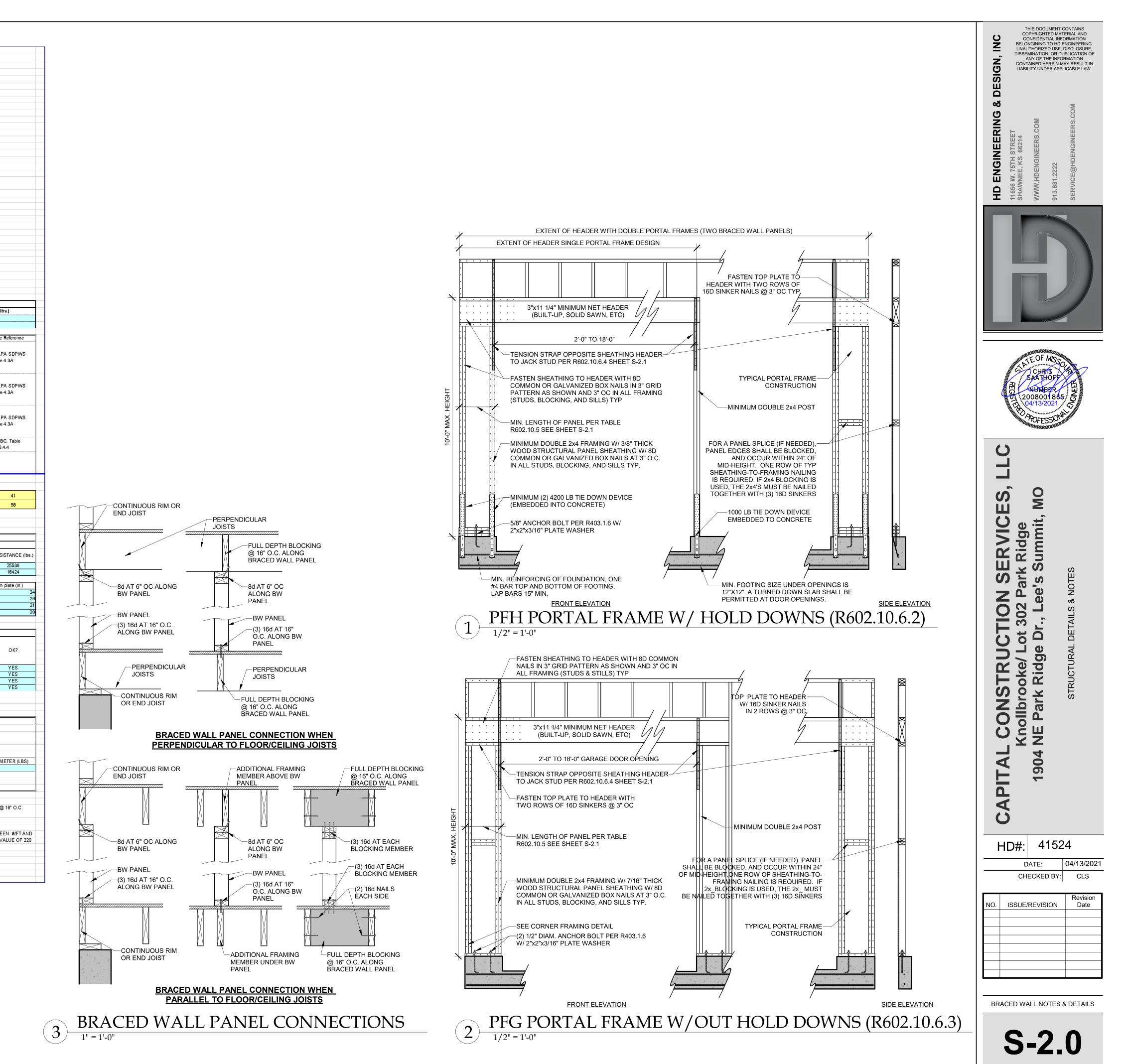
JOIST SPAN	6' AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'
CONNECTION DETAILS	ON-CENTER SPACING OF FASTENERS ^{d, e}						
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING ^{c,d}	30	23	18	15	13	11	10
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING ^d	36	36	34	29	24	21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

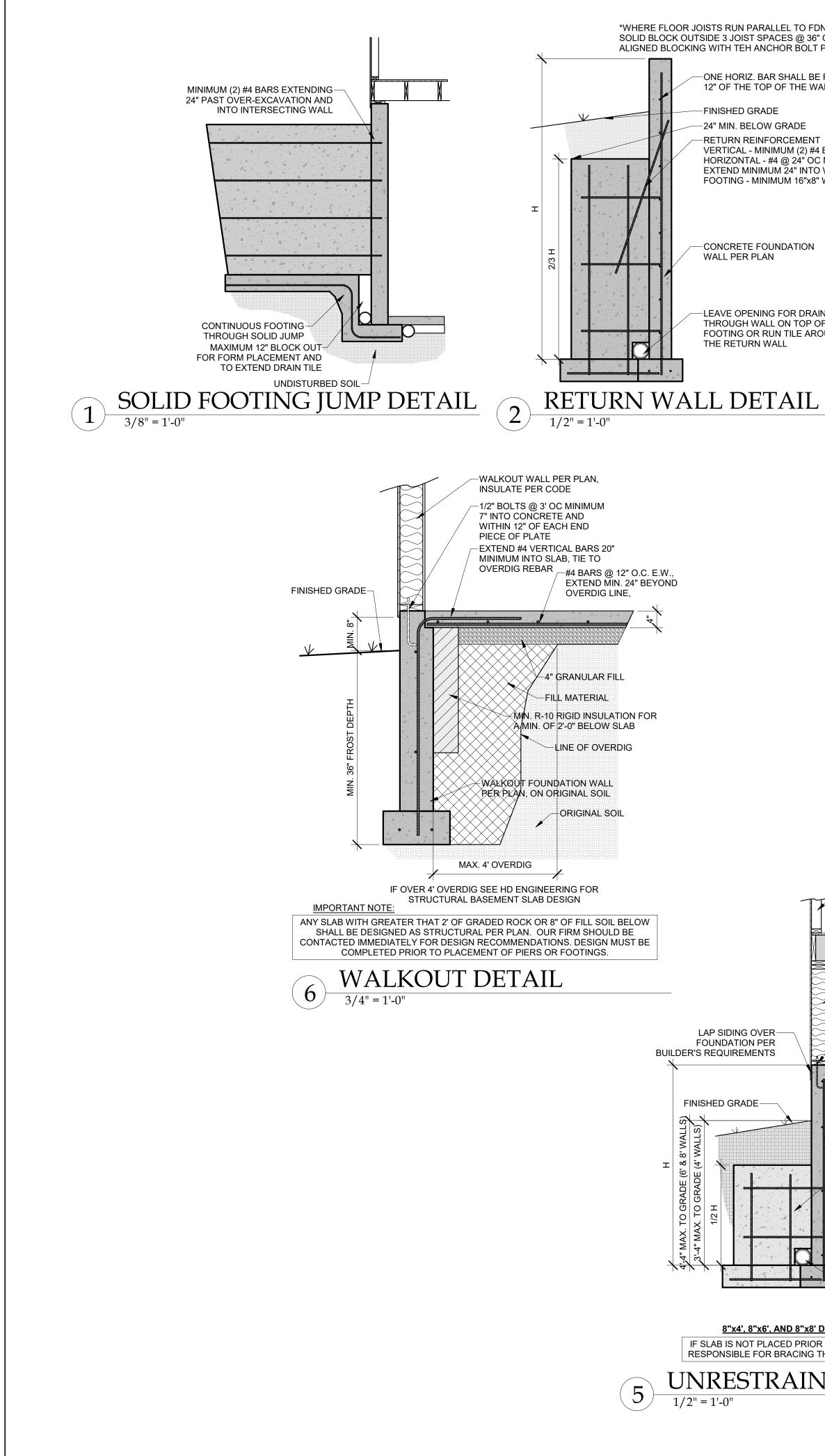


	ND AND EDGE D	ISTANCES AND S	PACING BETWEEN	ROWS
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING
LEDGER ^a	2 inches ^d	3/4 inches	2 inches ^b	1 5/8 inches ^b
BAND JOIST °	3/4 inches	2 inches	2 inches	1 5/8 inches ^b



	6F 11611-1				& WIND ANALYSIS		INPUT
DETERMINE WEIGHT	OF HOUSE:				DEAD LOAD (psf)	AREA (ft ²)	CALCULATED VALUE WEIGHT (lbs.)
ROOF					10	2354	23540
CEILING					10	2151	21510
SECOND FLOOR FIRST FLOOR					10 10	1350 1158	13500 11580
				WALL LENGTH (tt)	WALL HEIGHT (ft)	WALL UNIT WT. (psf)	WEIGHT (lbs)
SECOND FLOOR EXT.				198	8	8	12672
FIRST FLOOR EXT. W	ALL DL			210		9 AREA (#2)	17010
SECOND FLOOR INT	PARTITION WALL DL				DEAD LOAD (psf) 6	AREA (ft2) 1350	WEIGHT (lbs) 8100
FIRST FLOOR INT. PA					6	1158	6948
	PROJ	L ECTED AREAS (WIND D	DESIGN PER 115 MPH 3	3-SECOND GUST, EXPOS	JRE C AND MEAN ROOF HEIGHT <=	30 FT ASSUMED)	
	FRONT AREA	-TO-BACK			SIDE-TO-SI AREA	IDE LOAD	
SLOPED ROOF	486	4135		SLOPED ROOF	304	2557	
VERT. ROOF	310	3854	CUMULATIVE	VERT. ROOF	110	1352	CUMULATIVE
2ND 1ST	369 490	4670 6092	12659 18751	2ND 1ST	522 560	6396 6881	10305 17186
101	430	0092		-) - PER ASCE CH. 6	500	0001	17100
	SLOPED ROOF WALL/VERT. ROOF	ZONE B ZONE A		9.7 14.2	ZONE C ZONE D	11.3 7.7	2a (FIG. 28.6-1, ASCE7) 9.8
	MEAN ROOF HT., ħ		18		ZONE D	1.7	3.0
				o walkout, enter 0 for area. on Velecity Pressure for 0.5	D analysis under ASCE7 10 and IRC/II	PC 2012)	
₽ ₂₁₀ =0.00256K _z K _{zt} K _d V ⁻	(ASCE7-10 Velocity F	ressure)	$q_{z10}ASD = 0.6 q_{z10}$ (Desi	gni verocity Pressure for Aa	D analysis under ASCE7-10 and IRC/II	BC 2012)	
2ND FLOOR TRIBUTA	RY WEIGHT						51386
IST FLOOR TRIBUTAF							87827
-	DTION - %g - FROM AS	SCE7 SEISMIC MAP)					12.0%
F _a (from ASCE7 Table	11.4-1)						1.6
S _{DS} (= 2/3 ⁺ S _S ⁺ F _a) R (from ASCE7 Table 1	12 2-1)						0.128 6.5
	· ·/						0.0
LOCATION				SEISMIC			V (- 4 0 + 0 - +
2ND FLOOR						1 ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * 1214
IST FLOOR							2075
Sheathing	Location	⊥ Min. Sheathi	ing Schedule	Fas	tening Schedule	Allowa	ble Shear (#/LF)
			-		/8" penetration @ 6" O.C. Edges, 12"		
Exterior (O	ption #4)	7/16" APA Rated Ply panel sheathing, or	wood/OSB or shiplap r 3/8" shiplap panel	O.C. Field for 7/16" APA	-rated plywood/OSB or shiplap panel		220
	· · · · · · · · · · · · · · · · · · ·		ghter nail spacing		Edges, 12" O.C. Field for 3/8" shiplap anel sheathing		
				•	-		
		7/16" APA Rated Ply		8	/8" penetration @ 4" O.C. Edges, 12" -rated plywood/OSB or shiplap panel		
Exterior <u>(</u>	option #5)	panel sheathing, or			-rated plywood/OSB or shiplap panel Edges, 12" O.C. Field for 3/8" shiplap		320
		sneathing with tig	ghter nail spacing		anel sheathing		
		7/16" APA Rated Plv	wood/OSB or shiplap				
Exterior (0	Option #6)	panel sheathing, o	r 3/8" shiplap panel	8d Common Nails w/ 1-3	/8" penetration @ 3" O.C. Edges, 12"		410
	<u> </u>		nail spacing and double h panel edge		O.C. Field		
					Saraus @ 0 0 0 C 10" 0 0		
Inte	rior	1/2" Gyps	um Board	ino. o- i 74° type VV or S	Screws @ 8" O.C. Edges, 12" O.C.		60
		,			Field		
		16 Ca Simnon /UCC 7	Ine WR Stad V Brook				
Inte	rior	16 Ga. Simpson/USP 1 (or e	••		Field & (1) 8d @ intermediate studs (per cations - see detail on sheet S3)		325
Inte	rior		••		& (1) 8d @ intermediate studs (per		325
Inte	rior		••		& (1) 8d @ intermediate studs (per		325
EXTERIOR SHEATHIN	G OPTION FOR SECC	(or e	qual) 5		& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.)	49	
EXTERIOR SHEATHIN		(or e	qual)		& (1) 8d @ intermediate studs (per cations - see detail on sheet S3)	49 56	WIDTH OF 2ND STORY (FT
EXTERIOR SHEATHIN	G OPTION FOR SECC	(or e	qual) 5		& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.)		WIDTH OF 2ND STORY (FT
EXTERIOR SHEATHIN	G OPTION FOR SECC	(or e	qual) 5		& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.)	56	WIDTH OF 2ND STORY (FT
EXTERIOR SHEATHIN	G OPTION FOR SECC	(or e	qual) 5 6	manufacturer specif	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.)	56 31	WIDTH OF 2ND STORY (FT
EXTERIOR SHEATHIN	G OPTION FOR SECC	(or e	qual) 5 6	manufacturer specif	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S	56 31	WIDTH OF 2ND STORY (FT
EXTERIOR SHEATHIN	G OPTION FOR SECC	(or e	qual) 5 6 EXTER	manufacturer specif	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S	56 31 1	WIDTH OF 2ND STORY (FT
EXTERIOR SHEATHIN	g option for seco g option for first	(or e	qual) 5 6 EXTER	manufacturer specif	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S ENGTHS (ft.) & RESISTANCES	56 31 1 WIND	WIDTH OF 2ND STORY (FT DEPTH OF 2ND STORY (FT
EXTERIOR SHEATHIN	G OPTION FOR SECC G OPTION FOR FIRST FRONT-TO-BACK	(or e	qual) 5 6 EXTER ISMIC SIDE-TO-SIDE	Manufacturer specifi	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S ENGTHS (ft.) & RESISTANCES FRONT-TO-BACK	56 31 1 WIND RESISTANCE (lbs.)	WIDTH OF 2ND STORY (FT DEPTH OF 2ND STORY (FT SIDE-TO-SIDE
Exterior Sheathin Exterior Sheathin 2ND Floor	G OPTION FOR SECC G OPTION FOR FIRS1 FRONT-TO-BACK 82	(or e	qual) 5 6 EXTERI ISMIC SIDE-TO-SIDE 48	OR STRUCTURAL WALL I RESISTANCE (lbs.) 18240	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S ENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 82 87	56 31 1 WIND RESISTANCE (lbs.) 43624 57246	WIDTH OF 2ND STORY (FT DEPTH OF 2ND STORY (FT SIDE-TO-SIDE 48 28
Exterior Sheathin Exterior Sheathin 2ND Floor	G OPTION FOR SECC G OPTION FOR FIRS1 FRONT-TO-BACK 82	(or e	qual) 5 6 EXTERI ISMIC SIDE-TO-SIDE 48 28	OR STRUCTURAL WALL I RESISTANCE (lbs.) 18240	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S ENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 82 87 Anchor Bolt Spacing diameter (in.)	56 31 1 WIND RESISTANCE (lbs.) 43624 57246 (in.) 0.5	WIDTH OF 2ND STORY (FT DEPTH OF 2ND STORY (FT SIDE-TO-SIDE 48 28 16d Nail Spacing req'd 2nd Floor F-B
EXTERIOR SHEATHIN EXTERIOR SHEATHIN 2ND FLOOR 1ST FLOOR 2ND FLOOR FRONT-T	G OPTION FOR SECC G OPTION FOR FIRST FRONT-TO-BACK 82 87 O-BACK	(or e	qual) 5 6 EXTERI ISMIC SIDE-TO-SIDE 48 28 STANCE REQUIRED WIND 0	OR STRUCTURAL WALL I RESISTANCE (lbs.) 18240	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S ENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 82 87 Anchor Bolt Spacing diameter (in.) Shear value (per NDS)	56 31 1 WIND RESISTANCE (lbs.) 43624 57246 (in.) 0.5 944	WIDTH OF 2ND STORY (FT DEPTH OF 2ND STORY (FT SIDE-TO-SIDE 48 28 16d Nail Spacing reqd 2nd Floor F-B 2nd Floor S-S
EXTERIOR SHEATHIN EXTERIOR SHEATHIN 2ND FLOOR IST FLOOR 2ND FLOOR FRONT-T 2ND FLOOR SIDE-TO-	G OPTION FOR SECC G OPTION FOR FIRST FRONT-TO-BACK 82 87 O-BACK SIDE	(or e	qual) 5 6 EXTER ISMIC SIDE-TO-SIDE 48 28 STANCE REQUIRED WIND	OR STRUCTURAL WALL I RESISTANCE (lbs.) 18240	& (1) 8d @ intermediate studs (per cations - see detail on sheet S3) WIDTH OF 1ST STORY (FT.) DEPTH OF 1ST STORY (FT.) BACK WALL OF GARAGE (FT.) GAR. WALL: 1=F-B, 2=S-S ENGTHS (ft.) & RESISTANCES ENGTHS (ft.) & RESISTANCES FRONT-TO-BACK 82 87 Anchor Bolt Spacing diameter (in.) Shear value (per NDS) Spacing F-B (inches)	56 31 1 WIND RESISTANCE (lbs.) 43624 57246 (in.) 0.5	WIDTH OF 2ND STORY (F1 DEPTH OF 2ND STORY (F1 SIDE-TO-SIDE 48 28 16d Nail Spacing req'd 2nd Floor F-B
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UNRESTRAINED FOUNDATION WALL

-LEAVE OPENING FOR

DRAIN TILE THROUGH

WALL ON TOP OF FOOTING

8"x4', 8"x6', AND 8"x8' DAYLIGHT FOUNDATION IF SLAB IS NOT PLACED PRIOR TO BACKFILL CONTRACTOR IS RESPONSIBLE FOR BRACING THE FOUNDATION AS REQUIRED

E.W. ON 16"x8" CONC. FTG. W/ (2) #4 BARS CONT. RETURN REINFORCEMENT: VERTICAL - MINIMUM 2-#4 HORIZONTAL - #4 @ 24" OC MINIMUM (2) EXTEND/BEND MINIMUM 24" INTO WALL, FOOTING - MINIMUM 16"x8" W/ (2) #4 BARS -BASEMENT SLAB PER PLAN (SLAB SHALL BE PLACED PRIOR TO BACKFILL)

-8"x8' CONC. FOUNDATION W/ #4 BARS @ 24" O.C. E.W. ON 16"x8" CONC. FTG. W/ (2) #4 BARS CONT. -8"x6' CONC. FOUNDATION W/ #4 BARS @ 24" O.C. E.W. ON 16"x8" CONC. FTG. W/ (2) #4 BARS CONT.

-8"x4' CONC. FOUNDATION W/ #4 BARS @ 24" O.C.

WITHIN 12" OF EACH END PIECE OF PLATE

-1/2" BOLTS @ 3' OC MINIMUM 7" INTO CONCRETE AND

-DAYLIGHT WALL PER PLAN, INSULATE PER CODE

-1ST FLOOR WALLS PER PLAN

TO WALL (TYP.)

-FULL DEPTH BLOCK FIRST

THREE JOIST BAYS @ 24" O.C.

WHERE JOIST RUN PARALLEL

VERTICAL REINFORCEMENT SPACING* 60 PSF SOIL; 40 & 60 KSI STEEL 8" THICK WALL 10" THICK WALL CONCRETE STRENGTH 8' 9' 9' 3000 PSI/ 40 KSI 16 12 24 16 3500 PSI/ 40 KSI 16 12 24 24

HORIZONTAL REINFORCEMENT**

MAX. SPACING 24" O.C.

** #4 BARS @ 24" ON CENTER.

CENTER (ACI 332).

FACE).

CORNERS.

ONE BAR 12" FROM TOP OF WALL;

SIDE) OF THE VERTICAL REINFORCEMENT

3000 PSI/ 60 KSI

3500 PSI/ 60 KSI

REINFORCEMENT AT CORNERS AND STEPS (3) 1/2'' = 1'-0''

-LEAVE OPENING FOR DRAIN TILE THROUGH WALL ON TOP OF FOOTING OR RUN TILE AROUND THE RETURN WALL

WALL PER PLAN

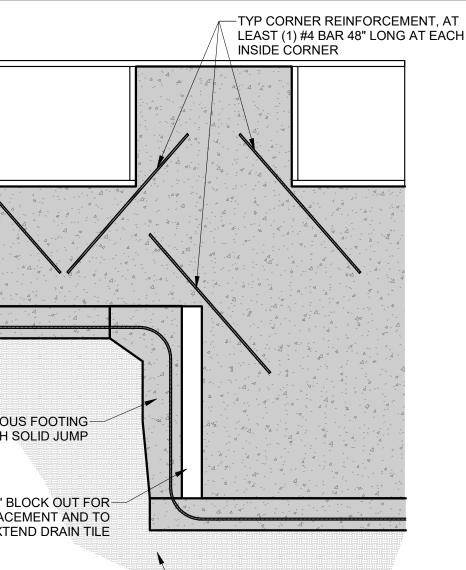
-FINISHED GRADE -24" MIN. BELOW GRADE RETURN REINFORCEMENT VERTICAL - MINIMUM (2) #4 BARS HORIZONTAL - #4 @ 24" OC MIN. (3) EXTEND MINIMUM 24" INTO WALL FOOTING - MINIMUM 16"x8" W/ (2) #4

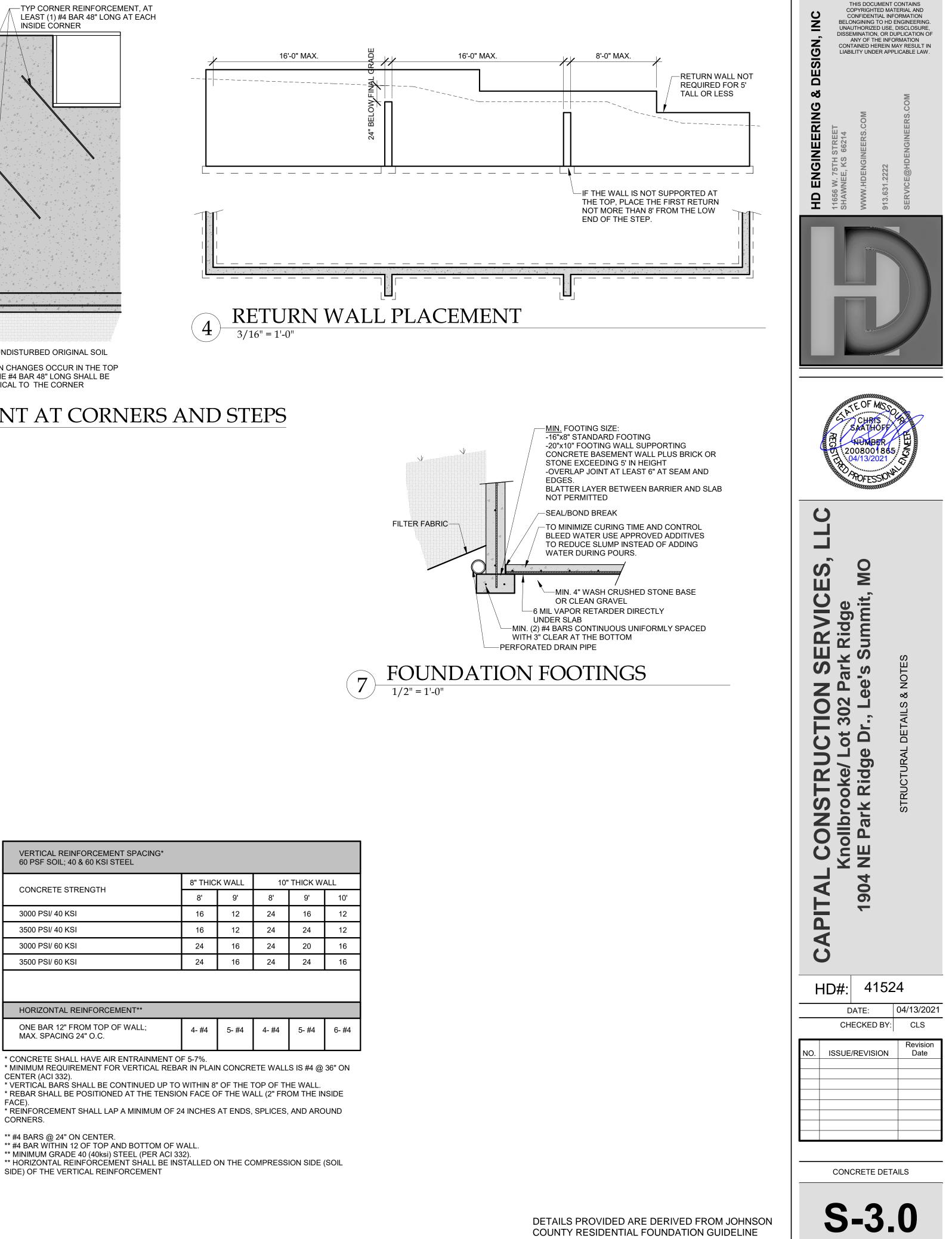
ONE HORIZ. BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL.

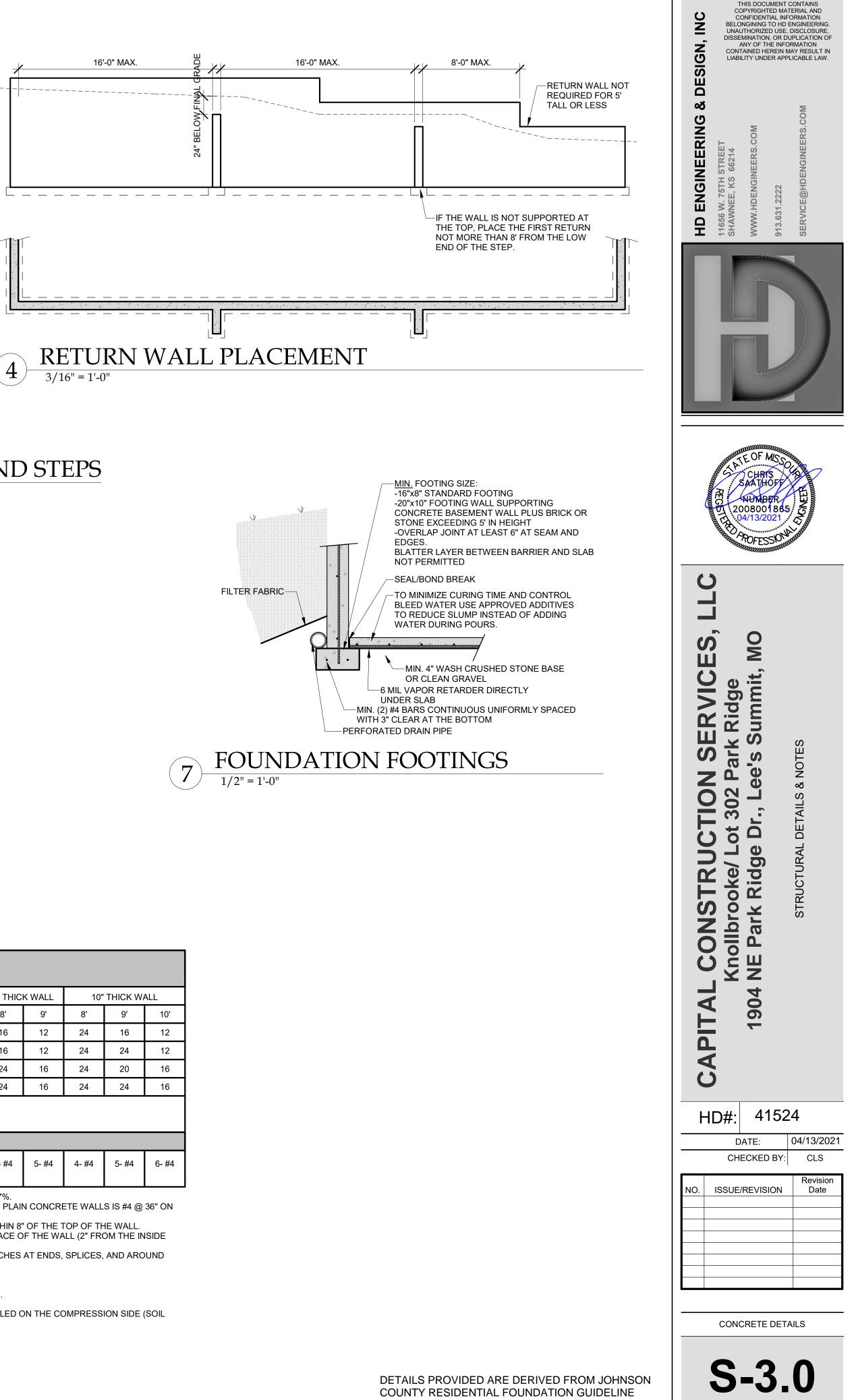
*WHERE FLOOR JOISTS RUN PARALLEL TO FDN. WALL SOLID BLOCK OUTSIDE 3 JOIST SPACES @ 36" O.C., ALIGNED BLOCKING WITH TEH ANCHOR BOLT PREFERABLY.

CONTINUOUS FOOTING THROUGH SOLID JUMP MAX. 12" BLOCK OUT FOR-FORM PLACEMENT AND TO EXTEND DRAIN TILE WHERE OPENINGS OR ABRUPT ELEVATION CHANGES OCCUR IN THE TOP

OR BOTTOM OF THE WALL AT LEAST ONE #4 BAR 48" LONG SHALL BE DIAGONALLY AS CLOSE A PRACTICAL TO THE CORNER







LEAST (1) #4 BAR 48" LONG AT EACH

