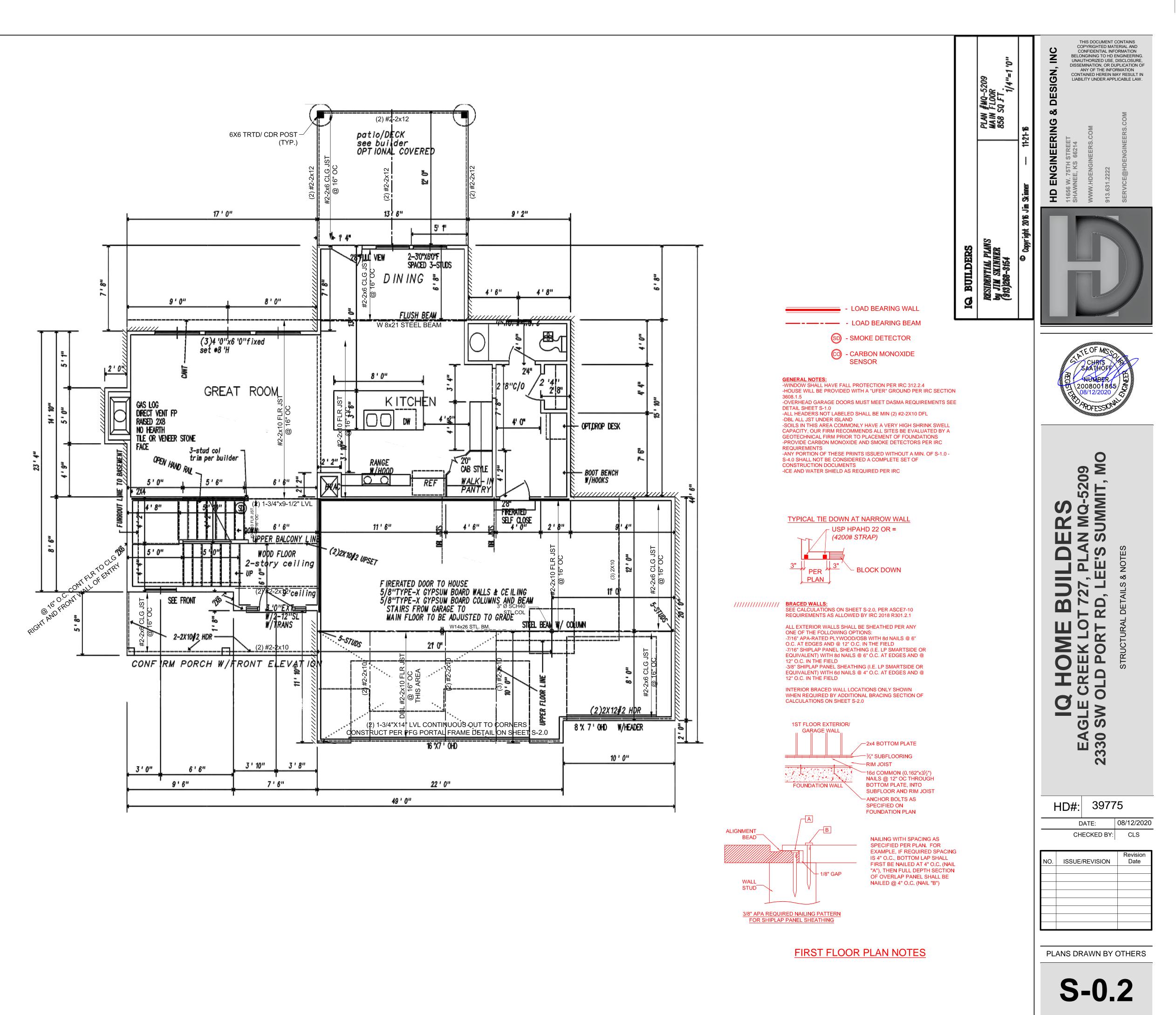
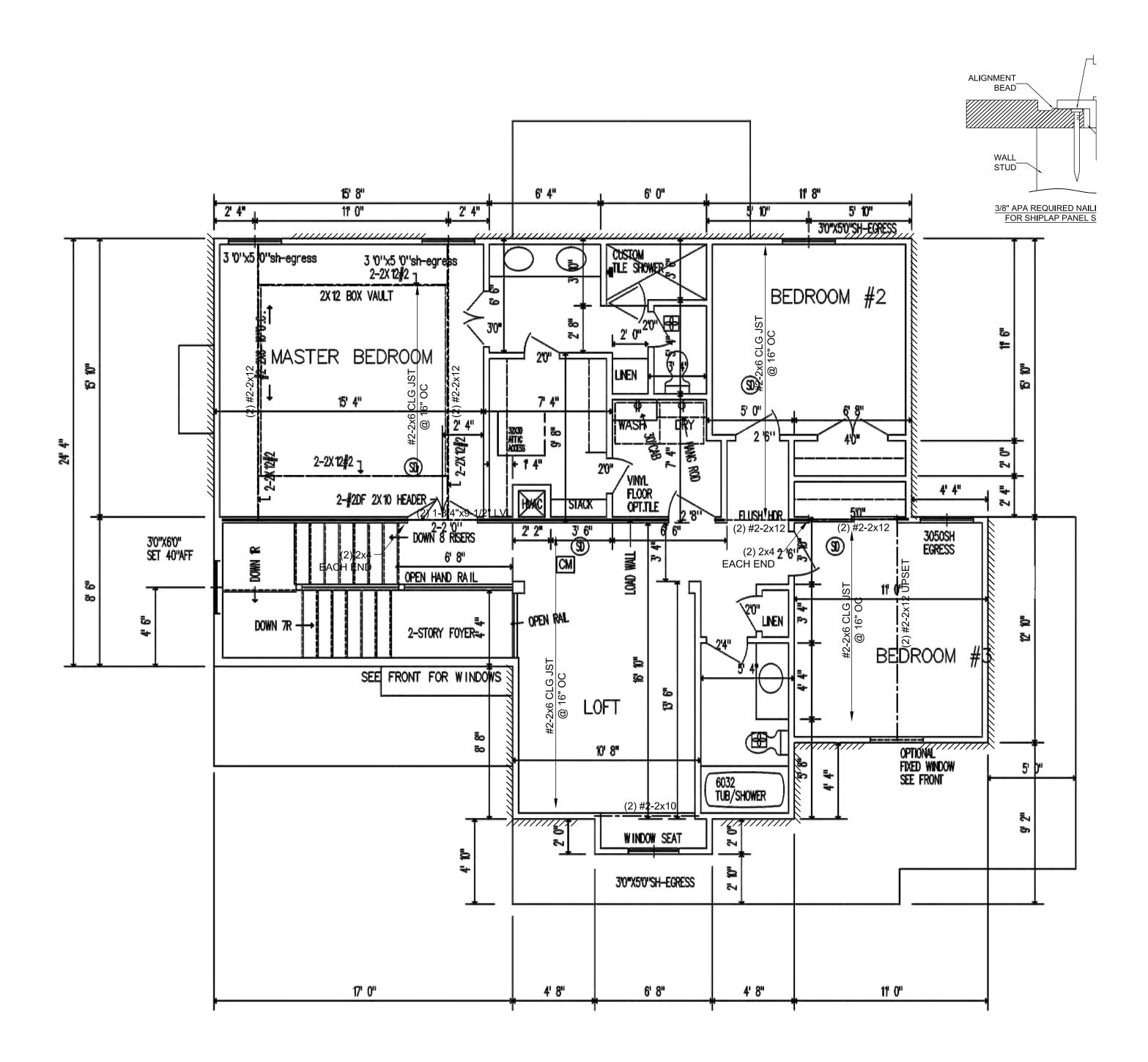


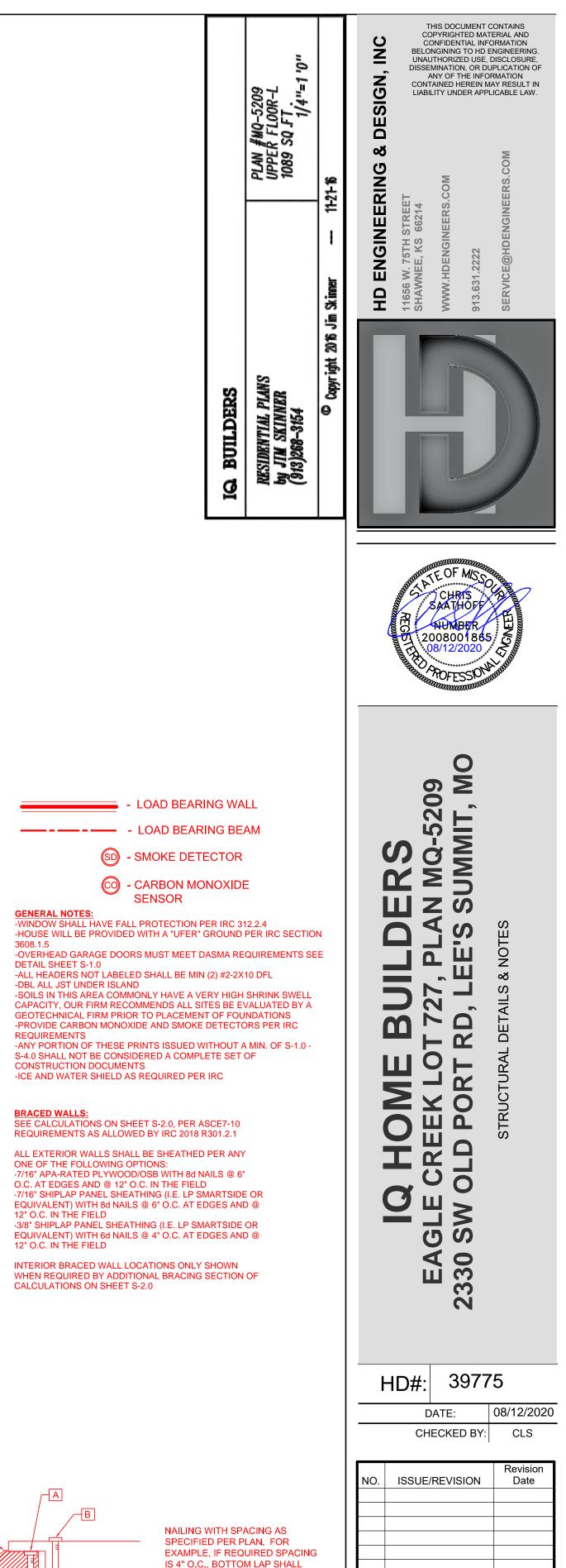
WALK-OUT OPTION

ROOF SHINGLES: COMPOSITION MAIN FLOOR 858 SQ.FT. UPPER FLOOR 1089 SQ.FT. TOTAL 1947 SQ.FT. GARAGE 684 SQ.FT. BASEMENT 858 SQ.FT.	IG BUILDERS RESIDENTIAL PLANS by JIN SKINNER (913)268-3154 Copyright 2015 Jim Skinner 11-21-16	Branch Stanksback Branch Stanksback
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		HD#: 39775 DATE: 08/12/2020 CHECKED BY: CLS
SMART PANEL SIDING 3-SIDES SIDING ON FIREPLACE (OPTIONAL STUCCO) COMPOSITION ROOF SHINGLES LOCATE ROOF AND SOFFIT VENTS PER CODE ADJUST FOUNDATION TO GRADE		NO. ISSUE/REVISION Revision Date Date

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ALIGNMENT BEAD	A B
WALL	1/8" GAP
	QUIRED NAILING PATTERN LAP PANEL SHEATHING

GENERAL NOTES:

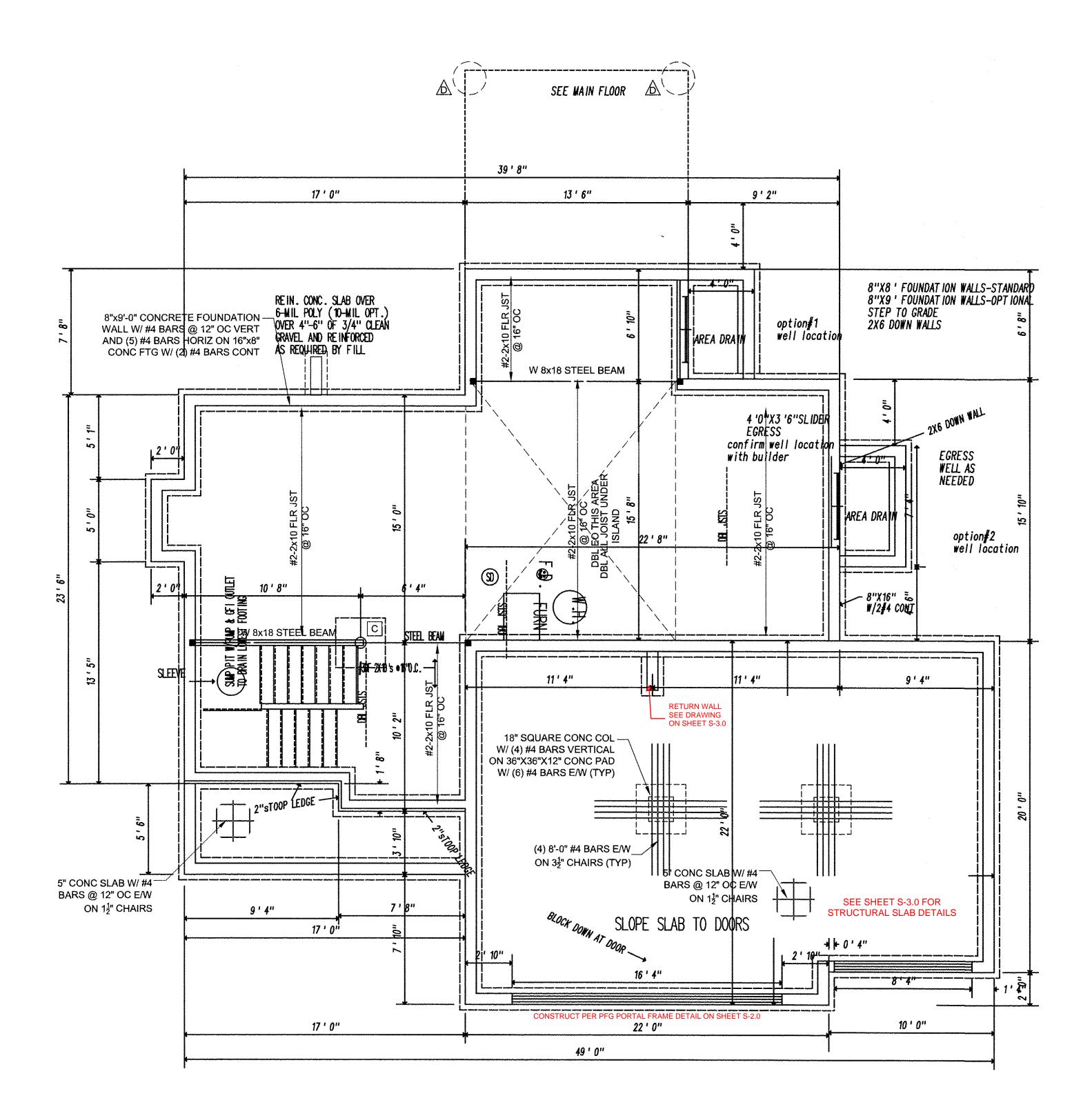
REQUIREMENTS

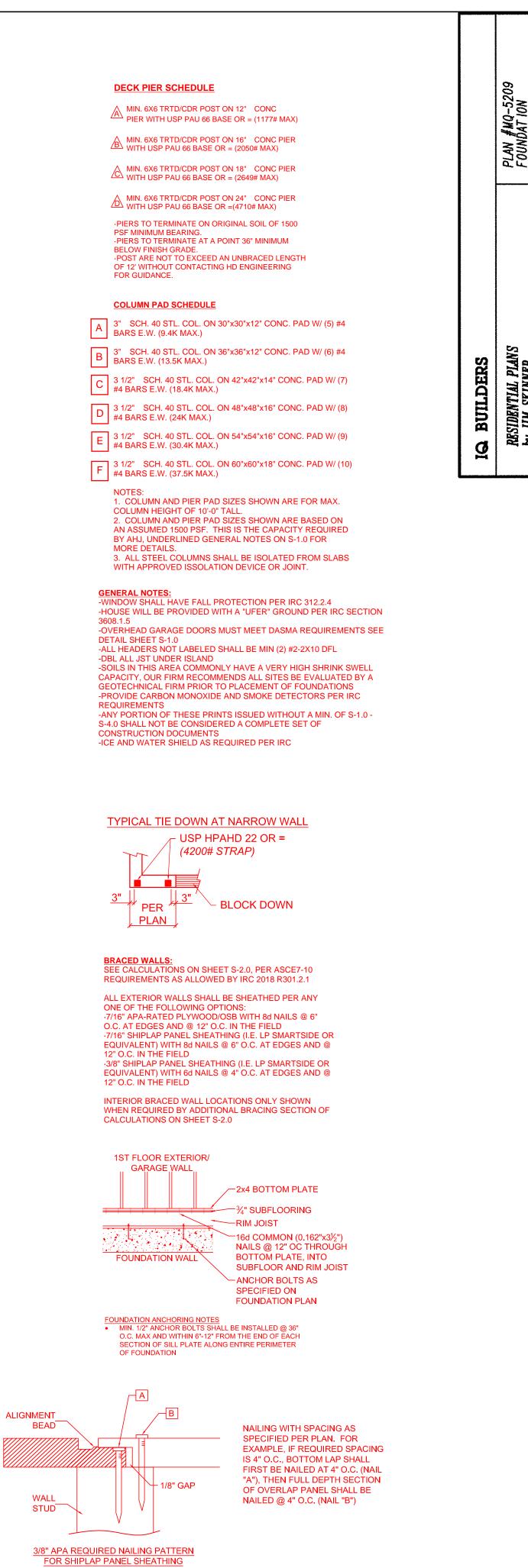
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NAILING WITH SPACING AS IS 4" O.C., BOTTOM LAP SHALL FIRST BE NAILED AT 4" O.C. (NAIL "A"), THEN FULL DEPTH SECTION OF OVERLAP PANEL SHALL BE NAILED @ 4" O.C. (NAIL "B")

PLANS DRAWN BY OTHERS

S-0.3





Ο **SUILDERS** 727, PLAN MQ-5209 D, LEE'S SUMMIT, MC RD RD \mathbf{m} IQ HOME SLE CREEK LOT SW OLD PORT F **D N EA** 23 39775 HD#:

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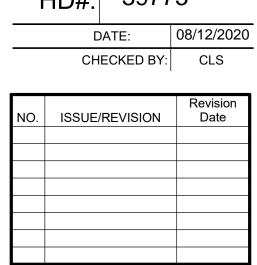
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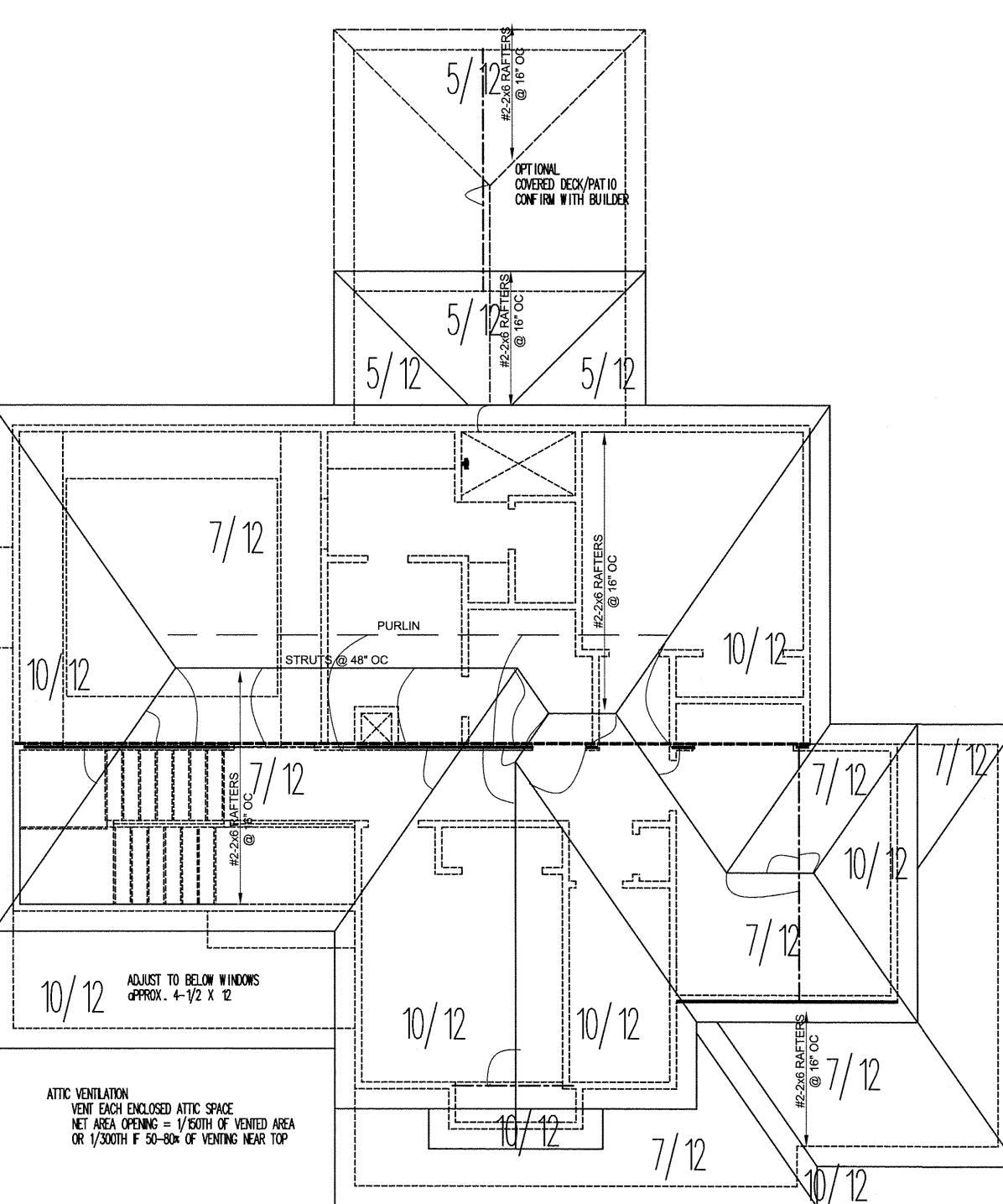
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PLANS DRAWN BY OTHERS



<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"

#2-2x10 @16" O.C. NOTE: CODE MINIMUM L/240 DEFLECTION

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

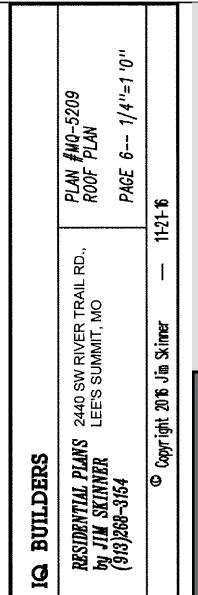
PURLIN STRUT	MAX PURLIN STRUT LENGTH
(2) 2x4	8'-0"
(1) 2x4 & (1) 2x6	12'-0"
(1) 2x6 & (1) 2x8	20'-0"
(2) 2x6 & (1) 2x8	30'-0"
CONSULT ARCH./ENGR.	>30'-0"

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/

- LOA . . . GIRDER PER PLAN





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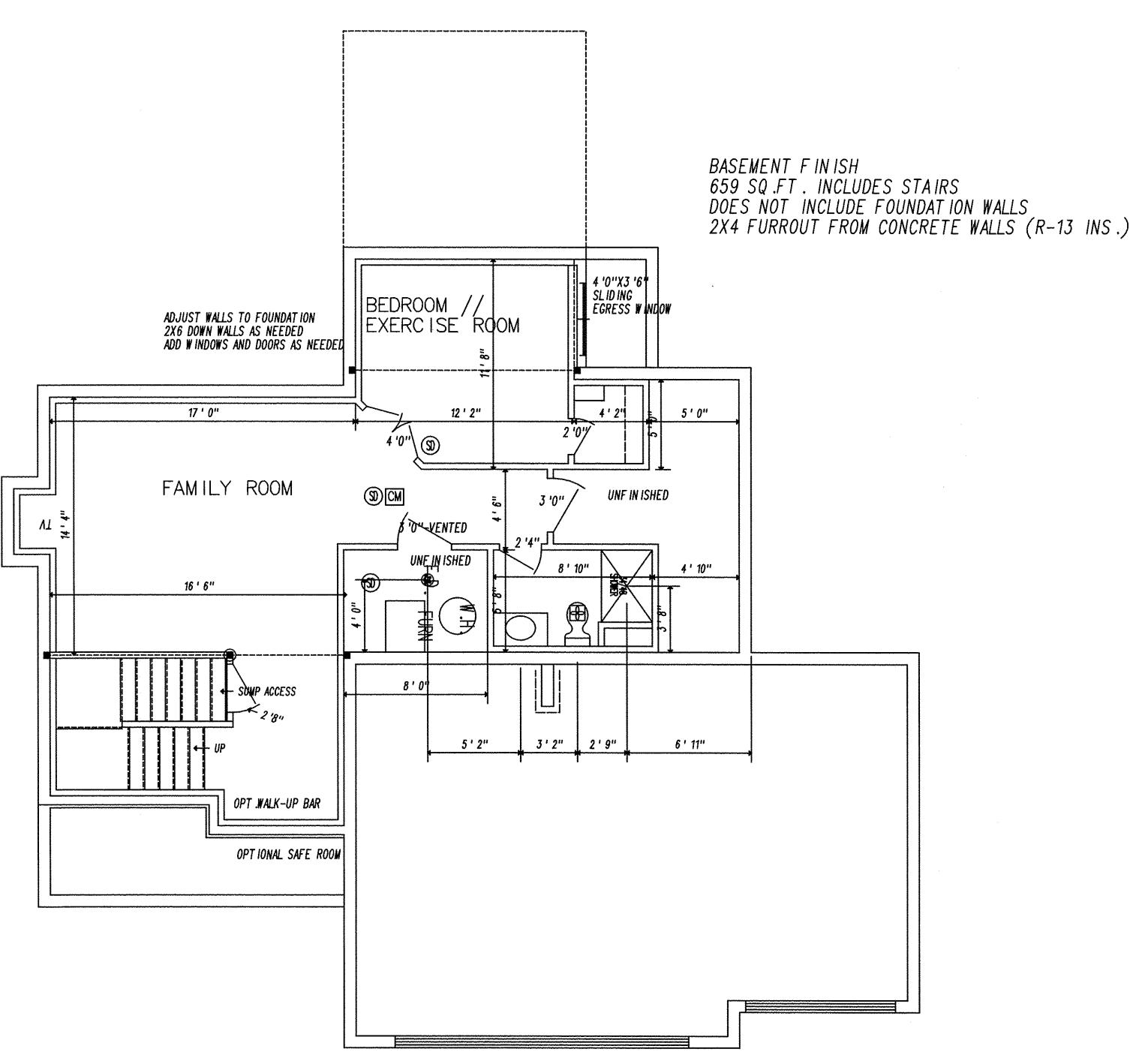
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IQ HOME BUILDERS EAGLE CREEK LOT 727, PLAN MQ-5209 2330 SW OLD PORT RD, LEE'S SUMMIT, M

	HD#:	3977	'5
	C	DATE:	08/12/2020
	СН	ECKED BY:	CLS
NO.	ISSUE/REVISION		Revision Date

PLANS DRAWN BY OTHERS

S-0.5



IQ BUILDERS	RESIDENTIAL PLANS by JIM SKINNER (913)268-3154 1/4"=1"0"	© Copyright 2016 Jim Skinner 11-21-16	BERGING AND ANALYSICAL A
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ALLOWABLE LOADS FOR PNEUMATIC OR **MECHANICALLY DRIVEN NAILS AND STAPLES**

			PENETRATION	ALLOWABLE LOADS (IN POUNDS)						
FASTENER DESCRIPTION	NAIL GUN NAILS/	WIRE GA.	REQUIRED INTO MAIN MEMBER FOR 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	4.0/0	89	81	41	32			
8d RING SHANK NAIL	.120	11	1-3/8	09	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	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 Screw Shank Nalls 16d Common Nails										
40d Box Nails	.162	8	1-3/4	154	141	50	40			
20d Ring Shank Nails	177	7	2 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					
COMPONENT [] RAFTERS [] EILING JOISTS [] BEAMS [] LOOR JOISTS [] LOOR JOISTS [] NALLS [] WALLS [] SOL [] MALLS []	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					
COMPONENT [] RAFTERS [] EILING JOISTS [] BEAMS [] LOOR JOISTS [] LOOR JOISTS [] WALLS [] WALLS []	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					
COMPONENT RAFTERS RAFTERS BEAMS BEAMS LOOR JOISTS WALLS	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					
COMPONENT RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFTERS RAFT	BEARING	TOENAIL W/ (2) 18D @ EACH END					
	RIM JOIST TO SILL OR TOP PLATE	TOENAIL W/ 8D COMMON OR 10D BOX NAILS @ 6" OC					
BEAMS	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					
EILING JOISTS BEAMS BEAMS UOOR JOISTS	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					
COMPONENT	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

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

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

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

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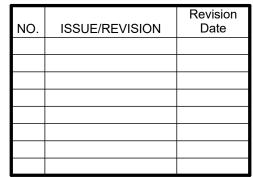
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GENERAL NOTES

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

												THE DWELLING	SHALL COMPLY WITH THE		DAD CON	NDITI
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,I} FASTENER		SPACING OF FAST GES (INCHES)h INT SUPPO	ENERS ERMEDIATE c. e ORTS (INCHES)		AREA	1	MIN DEAD LOAD	N L L
		ROOF						SHEATHING TO FRAMING AND PARTIC		SHEATHING TO FRAMI		I	EXTERIOR BALCONIES		10	(
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	3-8D (2 1/2" X 0.113")	TOE NAIL		ĮSE	E TABLE R602.3(3) FOR WOOD	i	PANEL EXTERIOR WALL SHEATHING		j			DECKS, STAIRS		10	4
2	CEILING JOISTS TO PLATE, TOE NAIL	3-10D (3"X0.128") 3-3"X 0.131" NAILS	PER JOIST, TOE NAIL	30		3/8"- 1/2"		D COMMON (2"X 0.113" NAIL (SUBFLOC OMMON (2 1/2" X 0.131 NAIL (ROOF); o		6	12 f		S / ATTICS NO STORAGE - DNLY ROOF SLOPE 3:12 OR		10	
	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER	4-10D BOX (3"X 0.128") 3-16D COMMON (3 1/2"X 0.162")	FACE NAIL					3/8" X 0.113" NAIL (ROOF) j					JOISTS / ATTICS NO STORA		10	
,	PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.52	4-3"X 0.131"NAILS		31		19/32" - 1"	8D C	COMMON NAIL (2 1/2" X 0.131; or RSRS	S-01; 2 3/8" X	6	12 f		CESS ONLY ROOF SLOPE C			┣─
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	TABLE R802.5.2	FACE NAIL	1				0.113) NAIL ROOF j					L DOWN LADDER ACCESS		10	<u> </u>
·	SEE SECTION R802.5.2 AND TABLE R802.5.2)	TABLE Rouz.5.2		32	1	1 1/8" - 1 1/4"	10D	D COMMON NAIL (3" X 0.148) NAIL; or 8	8D (2 1/2" X	6	12	R	OOMS: NON-SLEEPING		10	4
	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" X 20GA. RIDGE	4-10D BOX (3" X 0.128")						0.131") DEFORMED NAIL		Ĵ			ROOMS: SLEEPING		10	;
D	STRAP TO RAFTER	3-10D COMMON (3" X 0.148") 4-3" X 0.131" NAILS	FACE NAILS EACH RAFTER				OTHER W	VALL SHEATHING ^g					F: LIGHT ROOF COVERING		10	
		3-16D BOX NAILS (3 1/2" X0.135") 3-10D COMMON NAILS (3" X 0.148"	2 TOE NAILS ON ONE SIDE AND 1 TOE	33		LULOSE FIBERBOARD SHEATHI		" GALVANIZED ROOF NAIL, 7/16" HEAE R 1 1/4" LONG 16GA. STAPLE WITH 7/		3	6		: HEAVY ROOF COVERING DNCRETE / TILE / SLATE	i /	20	
5	RAFTER OR ROOF TRUSS TO PLATE	4-10D BOX (3" X 0.128"	NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS ¹					CROWN		Ũ	Ũ	GL	JARDRAILS, HANDRAILS		200# LL N	NOR'
		4-3" X0.131" NAILS		- 34	25/32" STRUCTURAL CEL	LLULOSE FIBERBOARD SHEATH		" GALVANIZED ROOF NAIL, 7/16" HEAE OR	D DIAMETER,	3	6		VERING MATERIAL (TILE, C			
		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						2" LONG 16GA. STAPLE WITH 7/16" OR	R 1" CROWN		-	ROOF PLAN. IF H	S 20 PSF DEAD LOAD AND H EAVY ROOFING IS TO BE U	JSED AND NOT N	IOTED O	ЭН ТН
	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	3-16D(3 1/2" X0.135"); OR 2-16D COMMON (3 1/2" X0.162")	TOE NAIL	35	1/2" GYF	PSUM SHEATHING ^d		" GALVANIZED ROOF NAIL, STAPLE G		7	7		GINEER PRIOR TO ANY CON D SITE WORK. IF THE PLAN			
		3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS						11/2" LONG; 1 1/4" SCREWS, TYPE V	W or S	· · · · · · · · · · · · · · · · · · ·		ROOF LOADS IT W	VILL BE NOTED IN THE ROO	OF NOTES ON TH	IE ROOF	FPLA
		WALL		36	5/8" GYE	PSUM SHEATHING ^d		" GALVANIZED ROOF NAIL; STAPLE G		7	7					
Т		16D (3 1/2" X 0.162")	24" OC FACE NAIL		0,0 011			1 5/8" LONG; 1 5/8" SCREWS, TYPE \	W or S							
	STUD TO STUD (NOT BRACED WALL PANELS)	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	16" OC FACE NAIL	-		WOOD STRUCTURAL PA	ANELS, COMBINAT	TION SUBFLOOR UNDERLAYMENT T								С
┨	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	12" OC FACE NAIL		21, 	/4" AND LESS		6D DEFORMED (2" X 0.120") NAIL	OR	6	12		COLUMN	JUNEL	JUL	<u></u>
	CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL		٠,٠ -			8D COMMON (2 1/2" X 0.131") NA	AIL	-			BASED ON FOOTING SIZ	2E (ASSUME 1500) PSF SO	JIL)
┨		16D COMMON (3 1/2" X 0.162")	16" OC EACH EDGE FACE NAIL	- ₃₈		7/8" - 1"		8D COMMON (2 1/2" X 0.131") NAIL		6	12	PAD	SIZE REINFORCEMEN	LT COL.	COL. TYPE	
	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16D BOX (3 1/2" X 0.135")	12" OC EACH EDGE FACE NAIL					8D DEFORMED (2 1/2" X 0.120") N	NAIL	~	·			MIN.	TYPE	
+		5-8D BOX (2 1/2" X 0.113") or 4-8D COMMON		30	1	1 1/8" - 1 1/4"		10D COMMON (3" X 0.148") NAIL		6	12	24x2	24x12 (4) #4 BARS E/W	V 3"	SCH40	,
	CONTINUOUS HEADER TO STUD	(2 1/2" X 0.131") 4-10D BOX (3" X 0.128")	TOE NAIL		I	1/0 - 1 1/4		8D DEFORMED (2 1/2" X 0.120") N	NAIL	0	12	30x3	30x12 (5) #4 BARS E/W	V 3"	SCH40	,
		16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL	 For SI: 1	inch = 25.4mm, 1 foot = 304.8 m	nm, 1 mile per hour = 0.447 m/s; 1 l	ksi = 6.895 MPa.					36x3	6x12 (6) #4 BARS E/W	V 3"	SCH40	,
	TOP PLATE TO TOP PLATE		12" OC FACE NAIL	-		.,						42x4	2x14 (7) #4 BARS E/W	V 3 1/2"	SCH40	,
_		10D BOX (3" X 0.128") OR 3" X 0.131" NAILS 8-16D COMMON (3 1/2" X 0.162"); or 12-16D BOX (3	FACE NAIL ON EACH SIDE OF END JOINT	-	TABLE R 6	302.3(5) SIZE	E. HEIG	GHT, AND SPAC	CING OF	= WOOD	STUDS	48x4	8x16 (8) #4 BARS E/W	V 3 1/2"	SCH40	,
	DOUBLE TOP PLATE SPLICE	1/2" X 0.135"); or 12-10D BOX (3" X 0.128"); or 12-3" X 0.131" NAILS	(MINIMUM 24" LAP SPLICE LENGTH					····				54x5	54x16 (9) #4 BARS E/W	V 3 1/2"	SCH40	,
-			EACH SIDE OF END JOINT) 16" OC FACE NAIL		BEARING WALLS					NON-BEARING WA	LLS	60x6	60x18 (10) #4 BARS E/V	W 3 1/2"	SCH40	C
(NOT AT BRACED WALL PANELS BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKIN		16D COMMON (3 1/2" X 0.162")					MAXIMUM SPACIN VHERE SUPPORTI									
-	· · · · · · · · · · · · · · · · · · ·	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	12" OC FACE NAIL	– STUD (IN		ROOF-CEILING O	ONE FLOOR, PLUS ROOF-CEILING	S A TWO FLOORS, PLUS A ON	NE FLOOR HEIGHT a (inches)	HEIGHT a (feet)	HEIGHT (feet)	T COLUMN	CONNECTION TO STEEL B R TAB EARS BENT AROUND	BEAMS SHALL BE		
	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	(HABITABLE ATTIC	ASSEMBLY OR A	A ASSEMBLY OR A	(incres)	(ieet)	(ieer)	BEARING	E PLATE, FOUR HOLES SHA	LL BE DRILLED I	N THE BO	BOTT
_		4-8D BOX (2 1/2" X 0.113"); or 3-16D BOX (3 1/2"					HABITABLE ATTIC ASSEMBLY (inche					SHOULD	THEN BE INSTALLED WITH	I A FLAT WASHE	R, LOCK	K WAS
	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	X0.135"); or 4-8D COMMON (2 1/2" X0.131");or 4-10D	TOE NAIL				\wedge					ACCORD	THE HOLES. THE POST CA ANCE WITH AWS D1.1-92 A	S AN ALTERNAT		
	TOP OR BOTTOM PLATE TO STUD	BOX (3" X0.128"); or 3-3" X 0.131" NAILS 3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2"		-			$\left(\begin{array}{c} \\ \end{array} \right)$					INSPECT	ED BY AN AWS-CERTIFIED	INSPECTOR.		
TOP OR BOTTOM PLATE TO STUD	X0.162"); or 3-10D BOX (3 1/2 X 0.133), of 2=10D COMMON (3 1/2 X 0.162"); or 3-10D BOX (3 X 0.128"); or 3-3" X 0.131"	END NAIL														
		NAILS		-												
	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:	3 ^b					10	16					
				2x4		24 _c	16 c		24	14	24					
	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	3x4	4 10	24	24	16	24	14	24				DEI	D
_		3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2"		2x	5 10	24	24		24	16	24		IGINEERE		DCI	
	1" X 6" SHEATHING TO EACH BEARING	X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL	2x		24	24	16	24	20	24		MIN. DESIGN REQ	UIREMENTS		
_		3-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2"		┨ ┗━━━━	INCH = 25.4mm, 1 FOOT = 304.							[
		X0.131") or 3-10D BOX (3" X 0.128"); or 3 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG		a. LISTEI	D HEIGHTS ARE DISTANCES B	BETWEEN POINTS OF LATERAL							F _b (psi)	E (psi) F _v	(psi)	1
	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	FACE NAIL	UNSUPPO	ORTED HEIGHT ARE PERMITTE			AN 4 FEET APART MEASURED VERTIC 2 OF SECTION R602.3.1 OR DESIGNED					LVL 2600	1.8x10 2	285	
		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								GLULAM 2400	1.8x10 1	190	1
_		FLOOR						F SPAN OF 32 FEET. WHERE THE ROC EPTED ENGINEERING PRACTICE.	OF SPAN EXCEEDS	32 FEET, THE WALL S	TUDS SHALL BE		PARALAM 2600	2.0x10 2	290	J
Т																
	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 MEC		QUIPMI	ENT EFFICIEN	CY	CA	THEDRA	AL / VAUL		ING		
_		8D BOX (2 1/2" X 0.113")	4" OC TOE NAIL		LIES BY CC		PER IF	RC2018 N1103.	61		FRAMIN	G AND IN	ISULATION	J		
	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D COMMON (2 1/2" X 0.131"); or 10D BOX(3" X0.128")	6" OC TOE NAIL									-				
_		or 3-3" X 0.131" NAILS 3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2"		-		AIR FLOW RATE M	MINIMUM EFFICAC	CY AIR FLOW RATE								
	1" X 6" SUBFLOOR OR LESS TO EACH JOIST	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)	CFM/WATT	MAXIMUM (CFM)	E	BETWEEN THE TOP OF	THE INSULATION AN	ND THE SHEATHING FO	HE RAFTERS, A MINIMUM 1 R VENTILATION (R806.3)			PRO
+				-	HRV OR ERV	ANY	1.2 CFM/WATT	ANY	E	BUILDER TO VERIFY:		-	QUIRED FOR STRUCTURA			
	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		-			ΓΙΟΝ VALUE, RAFTER SIZES Μ JOIST DEPTH FOR THE R	-	-	
_		, , , , , , , , , , , , , , , , , , ,		-	IN-LINE FAN	ANY	2.8 CFM/WATT	ANY	A	ADDITION, IF THE RAFT	FER SIZE IS INCREASE		ED THAT THE RIDGE BE A M			
	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		BATHROOM UTILITY FAN	N 10	1.4 CFM/WATT	<90	ſ				,			
+		3-16D COMMON (3 1/2" X 0.162"); or 4-10D BOX		4	BATHROOM UTILITY FAN		2.8 CFM/WATT			MAXIMUM INSULATI 1" AIR SPACE (FIBE					2x12	
	BAND OR RIM JOIST TO JOIST	(3" X0.128") or 4-3" X 0.131" NAILS; or 4-3" X 14GA.	END NAIL		L	<u> </u>			L		R-13, 3	3 1/2" R-19, 6 1/4"	CONDENSED R-38, 8 1/4	4 R-38	s, 10 1/4"	
+		STAPLES, 7/16" CROWN	NAIL EACH LAYER AS FOLLOWS: 32" OC	- ĸл				TRATION VALU					18 NI1102	1 2		
		20D COMMON (4" X 0.192"); or	AT TIP AND BOTTOM AND STAGGERED 24" OC FACE NAIL AT TOP AND BOTTOM	<u> </u>		ULAIIUN &	I ENJ	INATION VALU					<u>10 INTTUZ.</u>	1.2		
	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	10D BOX (3" X 0.128"); or 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); or	STAGGERED ON OPPOSITE SIDES	-							_					
\downarrow		3-10D BOX (3" X 0.128; or 3-3" X 0.131" NAILS	FACE NAIL AT END AND AT EACH SPLICE	CLIMATE	ZONE FENSTRATION SK	FACTOR FERNETRATION	SULATED METAL	INSULATED WOOD CEILING W DOOR U-VALUE R-VALUE W	VOOD FRAMED F	FLOOR BASEMEN		CRAWL SPACE	DUCTWORK OVER DUCT OUTSIDE R-VALUE OTHE	WORK (ALL R) R-VALUE		
	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	AT EACH JOIST OR RAFTER, FACE NAIL			B			45	10 CONTINU	OUS D 40 0 FT	10 CONTINUOUS		e e		
4		4-10D BOX (3" X 0.128"); or 4-3" X 0.131" NAILS		4 EXCEPT				0.50 49		19 OR 13 CAVI	R-10, 2 FT.	OR 13 CAVITY	ŏ	O		
l	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)	RECESSED LIGHTING SHALL E	BE SEALED TO PREVENT LEAKA	KAGE BETWEEN T	BARRIER AS PER N1102.4.1 OF THE 20 THE CONDITIONED SPACE AND UNCC	ONDITIONED SPACE							
ļ	RE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS I			,		·		AS DUCTS SHALL BE SEALED AS PER								
4	RE SWOULH-COMMON BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED NAILS I	USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAG	GE BENUING YIELD STRENGTHS AS SHOWN: 80 KSLEOR SHANK	DIAMETER OF 0.192 INCH (200	DECOMIMON) DILLEDIO	S DI ANG. THE TEDM "DI III DEC		RS TO A CERTAIN LEVEL OF DEVELO	JUMENT OF THE DD		AL INADUES THESE DI	AND DECLIDE THAT T	UL CONTRACTOR ROCCE	SCER COMPETER		

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 GREE WIRE AND TRAVE A MUNIMUM // 10 - INCLOS ON WINDE TEX COWN WHERE SPANS ARE 48 INCHES OR GREATER.
 c. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.
 d. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY.
 e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).
 f. FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8D DEFORMED (2 1/2" X 0.120) NAILS SHALL BE USED FOR ATTACHING PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCHES DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEICHLIS MORE THAN 26 EFET UP 0.25 EFET MAXIMUM

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 ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR 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 ON 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.

CONTINUED TABLE R602.3(1) 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 À 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	PSF)
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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

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

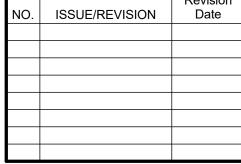
	F _b (psi)	E (psi)	F _∨ (psi)
LVL	2600	1.8x10	285
GLULAM	2400	1.8x10	190
PARALAM	2600	2.0x10	290





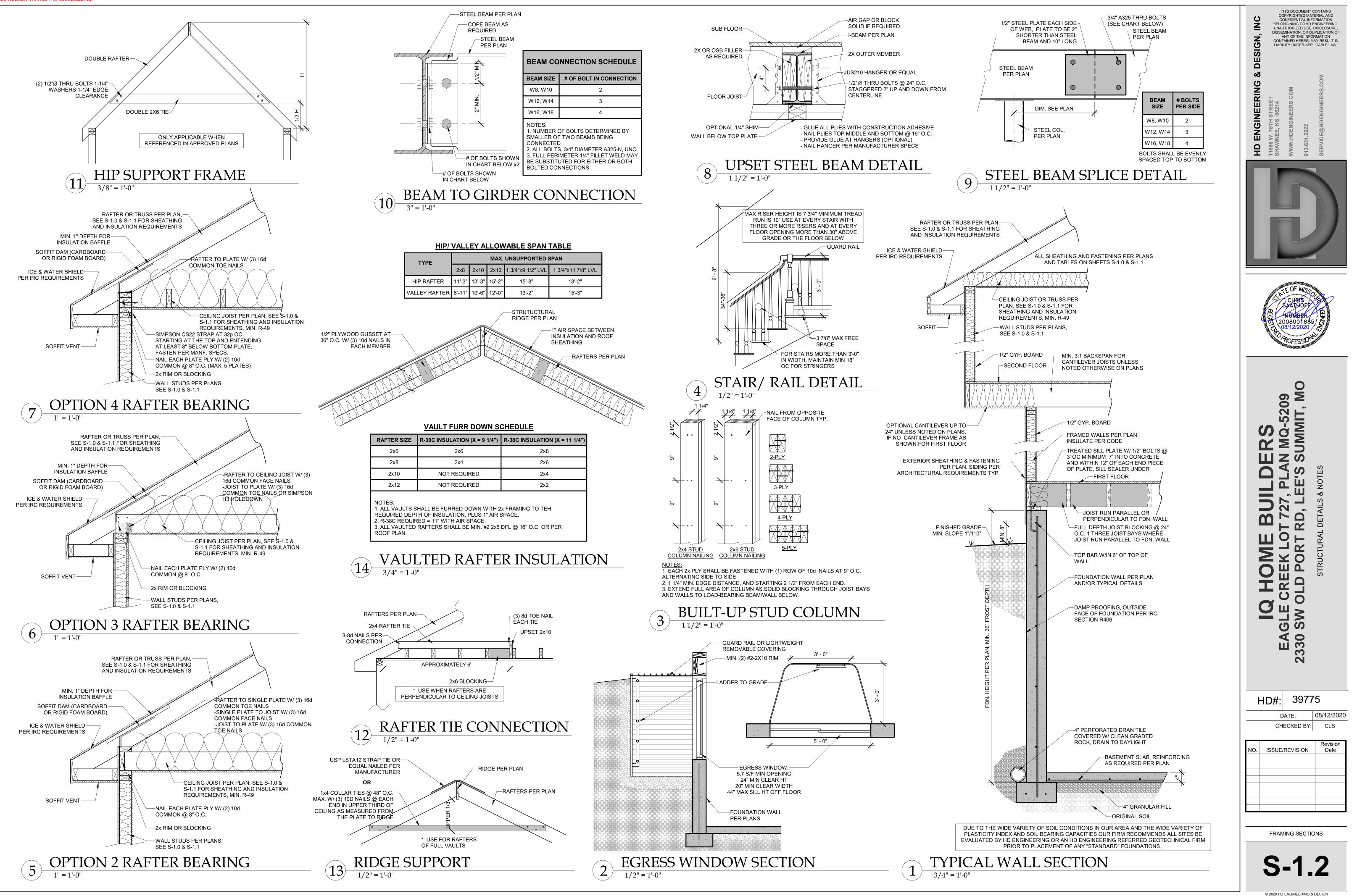
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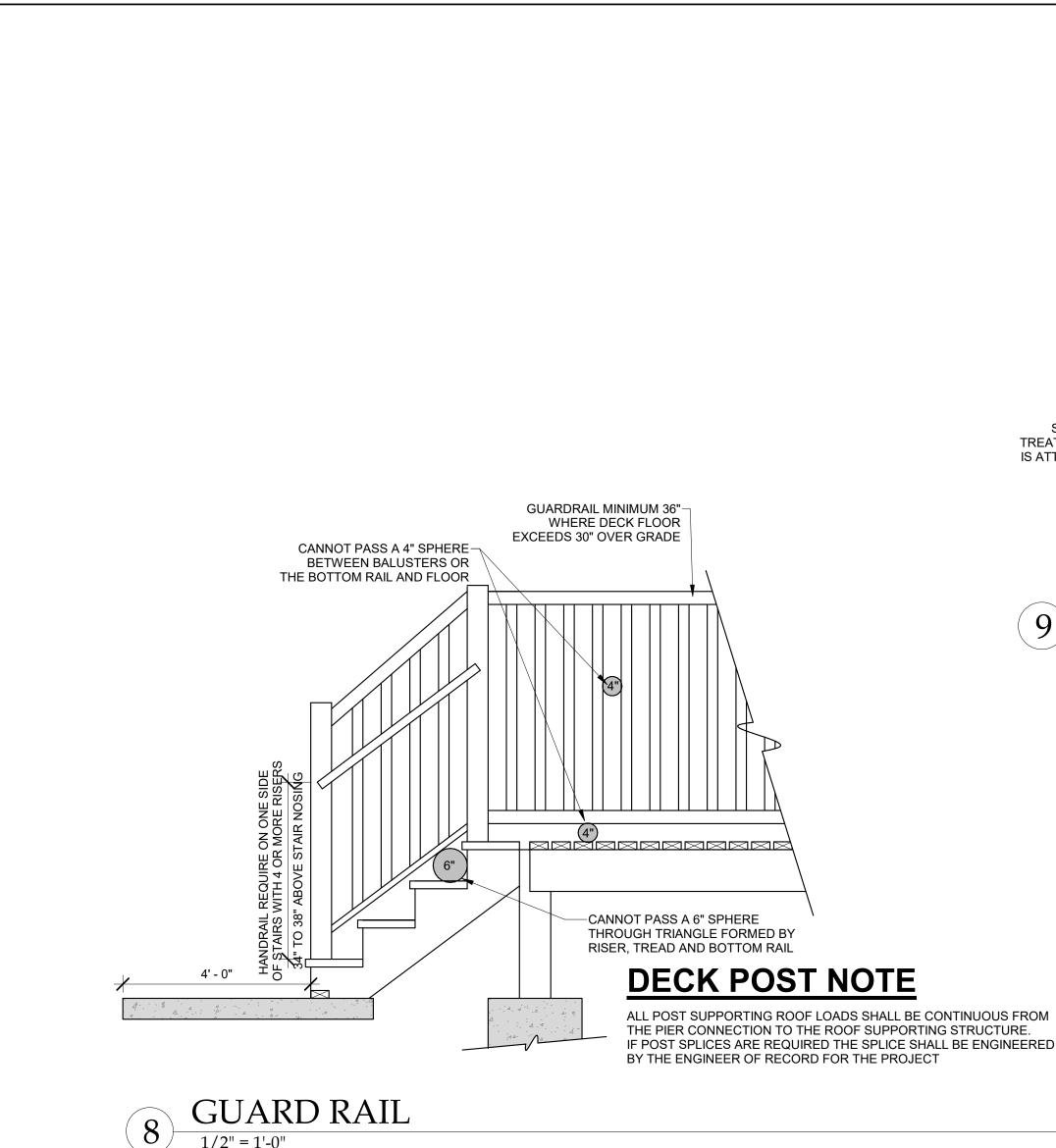
I MQ-5209 SUMMIT, M S S S S S S UILD 27, PLA , LEE'S N . m RD RD HOME CREEK LO LO RT IQ HC GLE CREE SW OLD F EA 30 3 N HD#: 39775 08/12/2020 DATE: CHECKED BY: CLS Revision **ISSUE/REVISION**

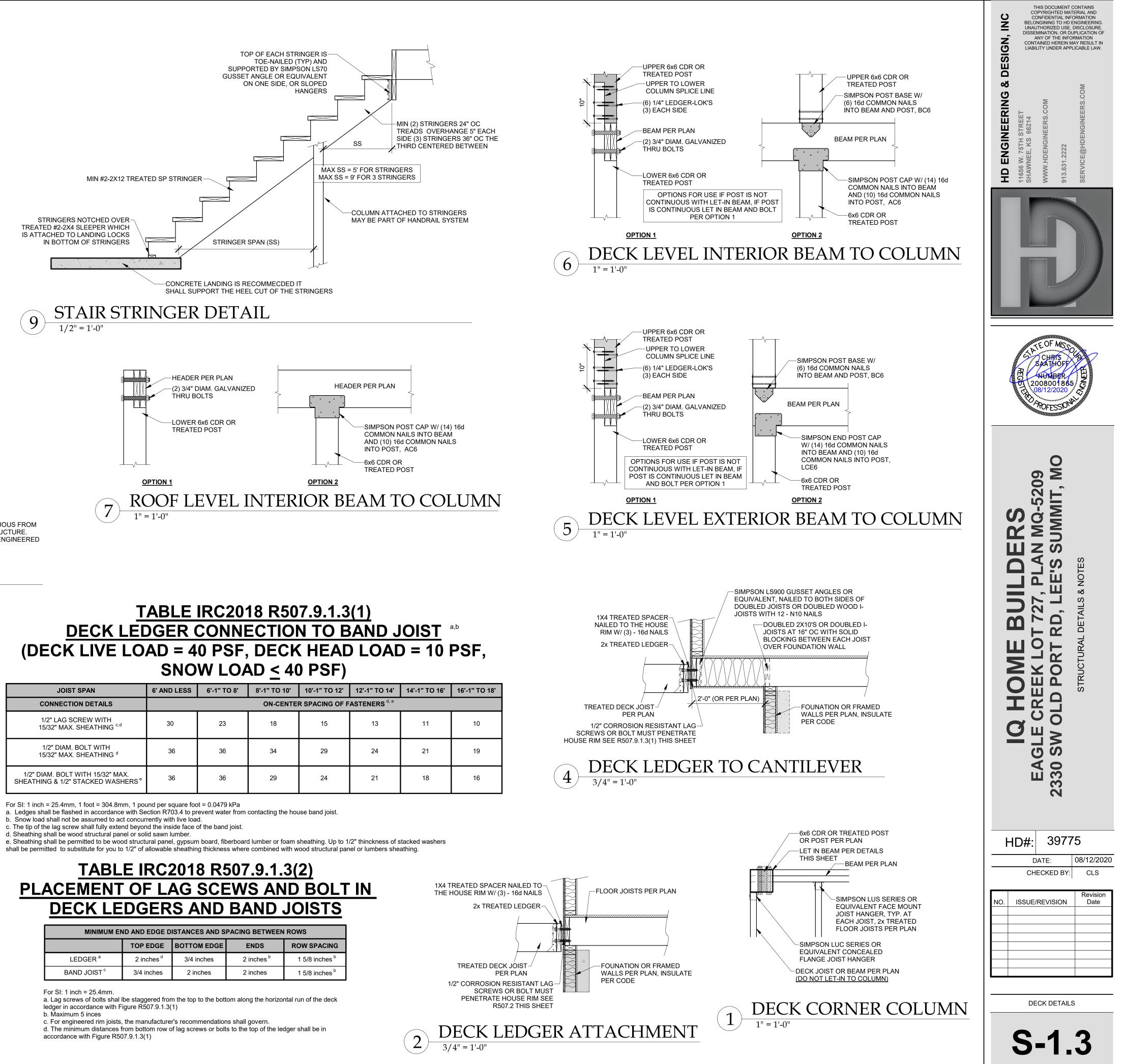


GENERAL NOTES

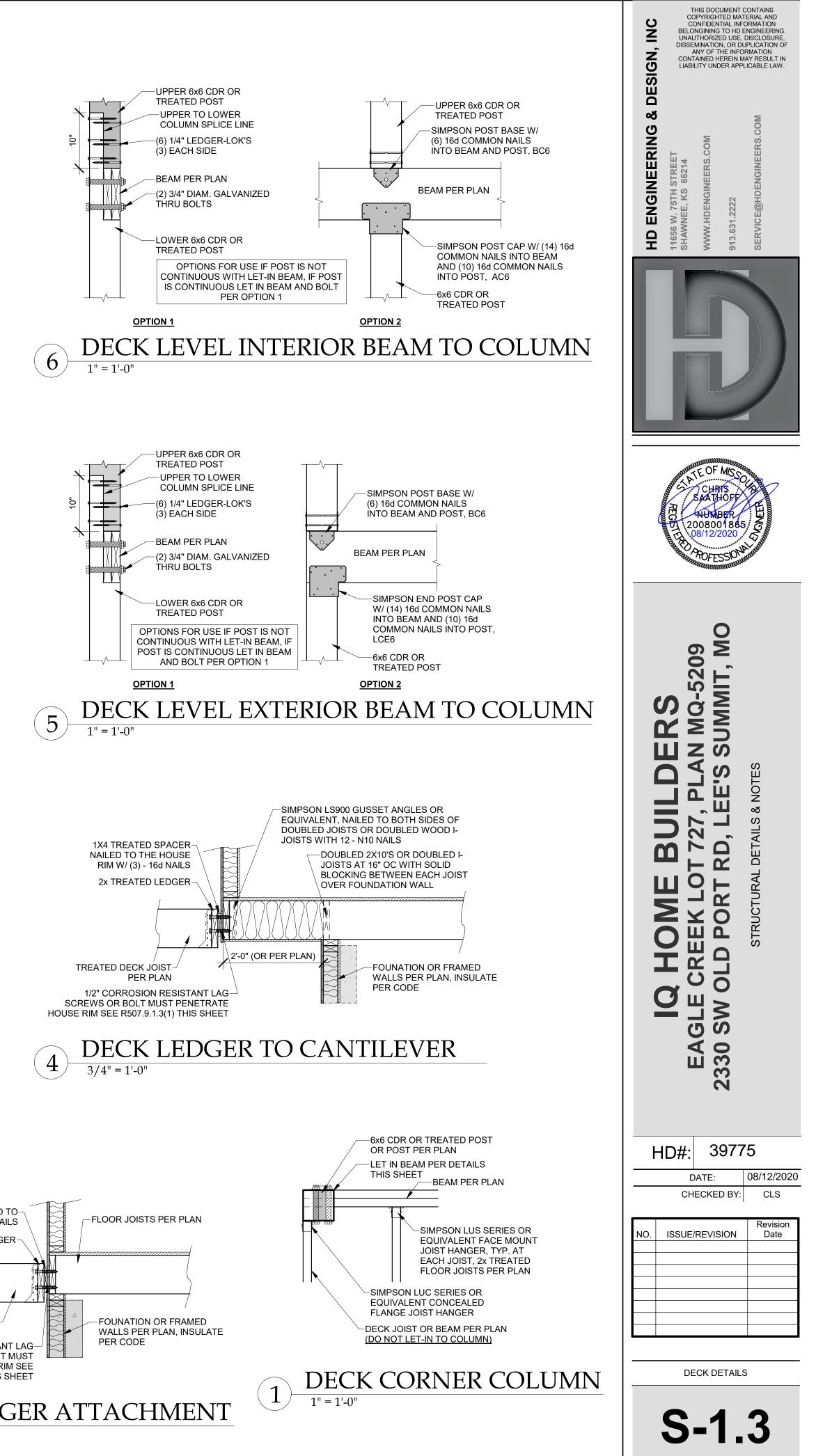




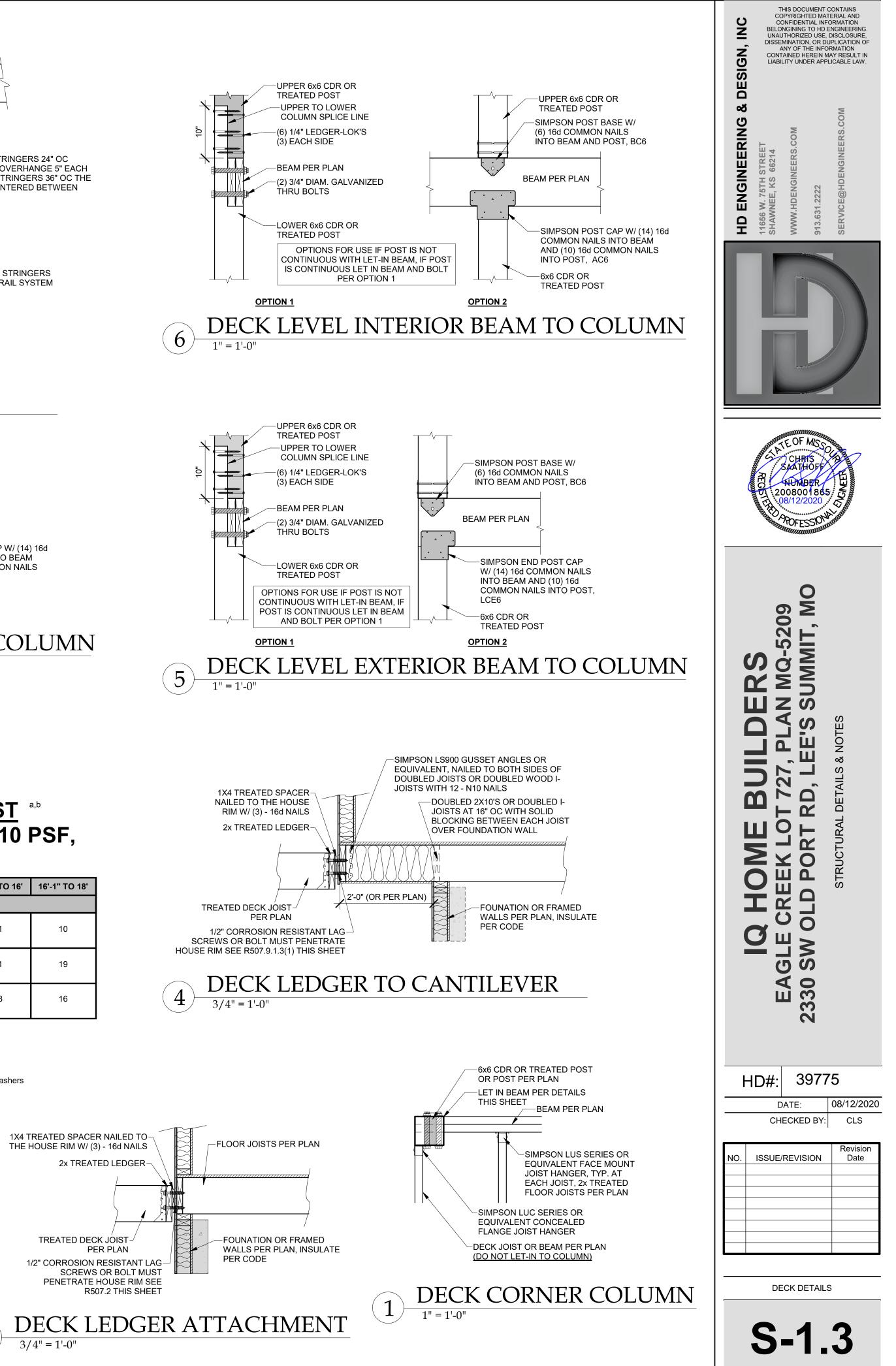




JOIST SPAN	6' AND LESS	6'-1" TO 8'	8'-1" TO 10'	10'-1" TO 12'	12'-1" TO 14'	14'-1" TO 16'	16'-1" TO 18'
CONNECTION DETAILS	ON-CENTER SPACING OF FASTENERS ^{d, e}						
1/2" LAG SCREW WITH 15/32" MAX. SHEATHING ^{c,d}	30	23	18	15	13	11	10
1/2" DIAM. BOLT WITH 15/32" MAX. SHEATHING ^d	36	36	34	29	24	21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

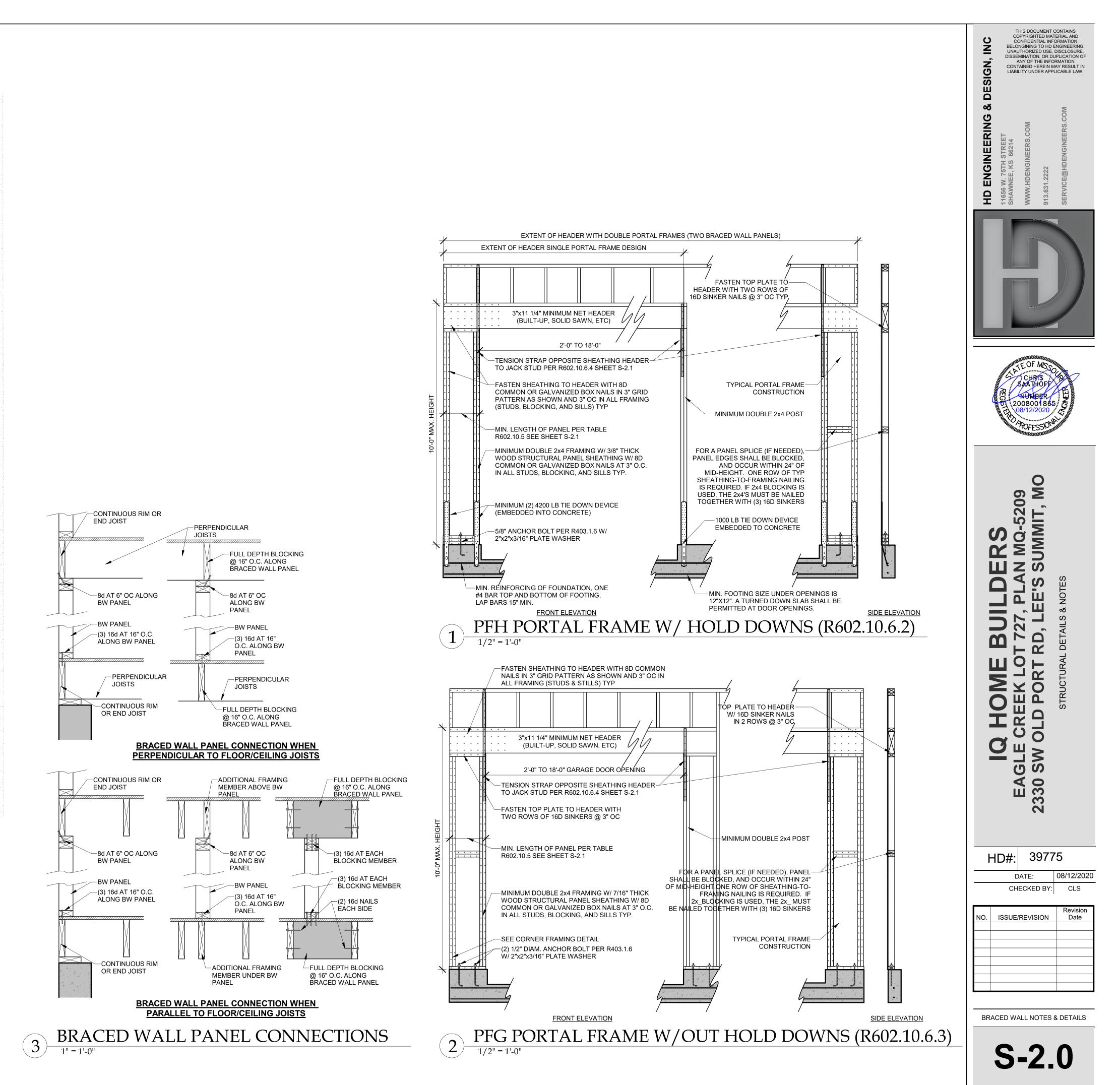


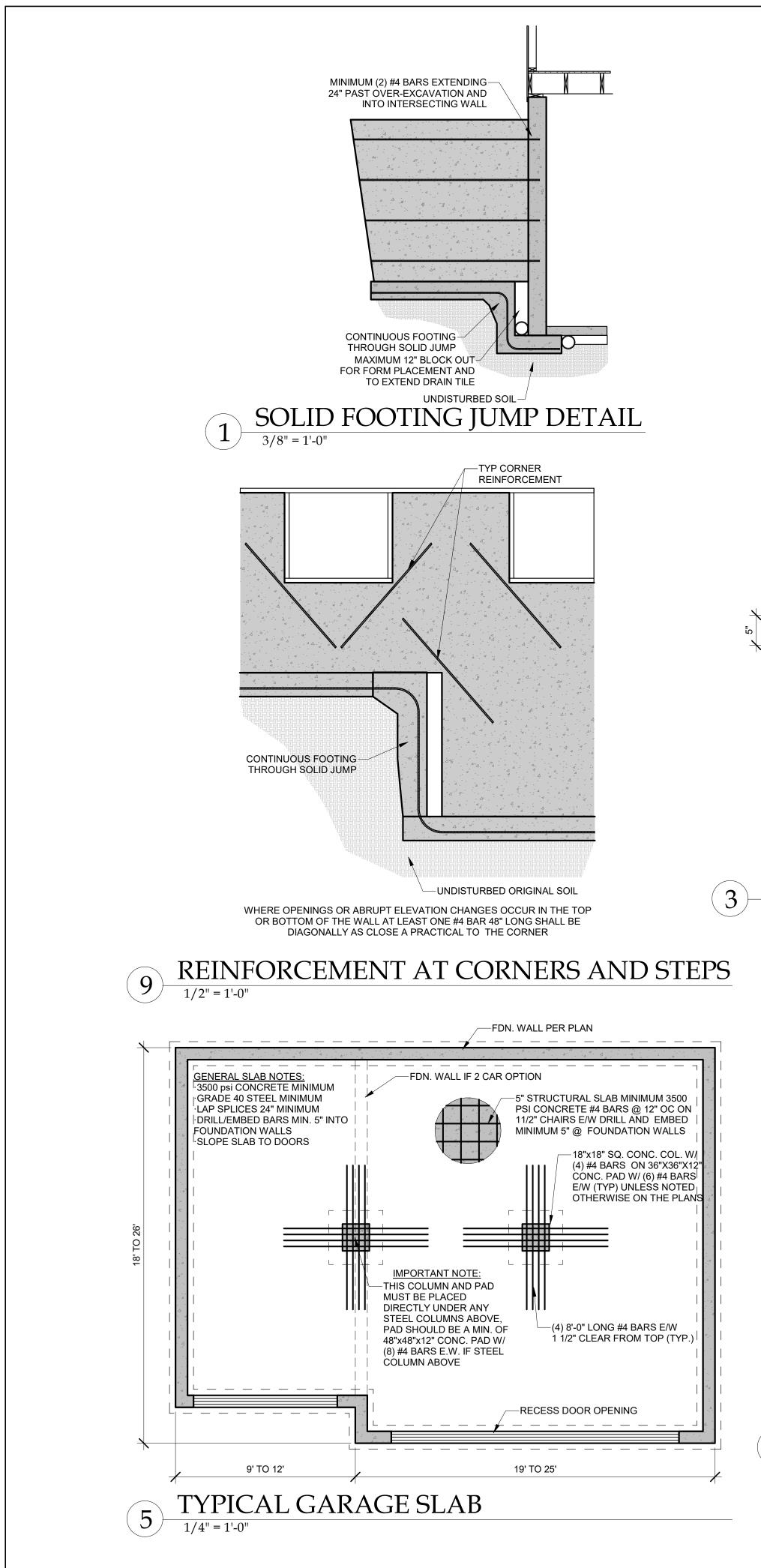
				· · · · · · · · · · · · · · · · · · ·				
DETERMINE WEIGH	FOE HOUSE	· · · · · · · · · · · · · · · · · · ·	RES	IDENTIAL SEISMIC	& WIND ANALYSIS			et peter and e east f f f f f f f f f f f f f
LOCATION		· · · · · · · · · · · · · · · · · · ·			DEAD LOAD (psf)	AREA (ft ²)	WEIGHT (lbs.)	* • • • • • • • • • • • • • • • • • • •
ROOF CEILING					10 10	2018 1952	20180 19520	
SECOND FLOOR FIRST FLOOR	· · · · · · · · · · · · · · · · · · ·	, ,		· · · · · · · · · · · · · · · · · · ·	10 10	1089 858	10890 8580	
SECOND FLOOR EX				WALL LENGTH (ft) 156	WALL HEIGHT (ft) 8	WALL UNIT WT. (psf) 8	WEIGHT (lbs) 9984	4
FIRST FLOOR EXT. V				186	9	9	15066	
	PARTITION WALL DL	·		······································	DEAD LOAD (psf) 6	AREA (ft2) 1089	WEIGHT (lbs) 6534	
FIRST FLOOR INT. P	ARTITION WALL DL				6	858	5148	1
		VECTED AREAS (WIND -TO-BACK	DESIGN PER 115 MPH	3-SECOND GUST, EXPOS	URE C AND MEAN ROOF HEIGHT <= 3 SIDE-TO-SI		······································	
SLOPED ROOF	AREA 202	LOAD 1703	· · · · · · · · · · · · · · · · · · ·	SLOPED ROOF	AREA	LOAD	· · ·	
VERT ROOF	110	1355	CUMULATIVE	VERT, ROOF	312 0	2654 0	CUMULATIVE	
2ND 1ST	387 490	4822 6034	7879 13913	2ND 1ST	315 440	4009 5470	<u>6664</u> 12134	
	SLOPED ROOF	ZONE B		F) - PER ASCE CH. 6 9,7	ZONE C	11.3	2a (FIG. 28.6-1, ASCE7)	
	WALL/VERT, ROOF MEAN ROOF HT., h	ZONE A		14.2	ZONE D	7.7	8.8	
	t wall to be sheathed, de	termine tributary wind are	a and enter here. If no	e des la marcia constructions de mercono e a		· · · · · · · · · · · · · · · · · · ·		1
qz10=0.00256KzKz1Kd\	² (ASCE7-10 Velocity P	ressure)	q _{≠10_ASD} =0.6q _{≠10} (Desig	gn Velocity Pressure for AS	D analysis under ASCE7-10 and IRC/IB	C 2012)		
2ND FLOOR TRIBUT	a dalam da ang kanala sa kanala k	· · · · · · · · · · · · · · · · · · ·			an a		44692	
1ST FLOOR TRIBUTA Ss (SITE GROUND M	RY WEIGHT OTION - %g - FROM AS	CE7 SEISMIC MAP)	· · · · · · · · · · · · · · · · · · ·	· 			74641 12.0%	n 1919 - Alexandro Alexandro 1919 - Alexandro Alexandro 1919 - Alexandro Alexandro 1919 - Alexandro Alexandro
Fa (from ASCE7 Table	2 11.4-1)						1.6	
S ₂₆ (= 2/3 * S ₅ * F ₄) R (from ASCE7 Table	12.2-1)		· · · · · · · · · · · · · · · · · · ·		n An an an an Arthon an Arthon an Arthon an Arthon an Arthon Arthon an Arthon an Arthon an Arthon an Arthon an Arthon		0.128 6.5	ne en formene en
·····	:		· · · · · · · · · · · · · · · · · · ·	SEISMC	SHEAD	· · · · · · · · · · · · · · · · · · ·		
LOCATION	· · · · · · · · · · · · · · · · · · ·			XHIXIIIX		n ASCE7 (Eq. 12.8-1):	V (= 1.2 * S _{DS} * W	/ R) (lbs.)
2ND FLOOR 1ST FLOOR		· · · · · · · · · · · · · · · · · · · ·	·······		· · · · · · · · · · · · · · · · · · ·		1058 1764	
Sheathir	g Localion	Min. Sheathi	na Schedule	Fas	tening Schedule	Δilmwai	ble Shear (#/LF)	Code Reference
	<u> </u>	7/16" APA Rated Plywoo		8d Common Nails w/ 1-3	/8" penetration @ 6" O.C. Edges, 12"			
Exterior (Option #4)	sheathing, or 3/8" shipk tighter nai	ap panel sheathing with	sheathing OR @ 4" O.C.	A-rated plywood/OSB or shiplap panel Edges, 12" O.C. Field for 3/8" shiplap anel sheathing		220	AF&PA SDPWS Table 4.3A
Exterior (Option #5)	7/16" APA Rated Plywoo sheathing, or 3/6" shipk tighter nai	ap panel sheathing with	O.C. Field for 7/16" APA sheathing OR @ 3" O.C.	/8" penetration @ 4" O.C. Edges, 12" A-rated pływood/OSB or shiplap panel Edges, 12" O.C. Field for 3/8" shiplap anel sheathing	320		AF&PA SDPWS Table 4.3A
Exterior (Option #6)	7/16" APA Rated Ptywoo sheathing, or 3/6" shipk tighter nail spacing and panel	ap panel sheathing with I double studs at each	6d Common Nails w/ 1-3	/8" penetration @ 3" O.C. Edges, 12" O.C. Field	410		AF&PA SDPWS Table 4.3A
ni.	erior	1/2" Gyps	um Board	No. 6- 1 ¹ /4" Type W or S S	crews @ 8" O.C. Edges, 12" O.C. Field		60	per IBC, Table 2306.4.4
'n	erior	16 Ga. Simpson/USP T (or e			& (1) 8d @ intermediate studs (per ications - see detail on sheet S3)	ya mana mana ya kata kata ya kata ya kata kata kata	325	
	· · · · · · · · · · · · ·			: 	en e		2 2	e An an an Anna Anna An
EXTERIOR SHEATHI	NG OPTION FOR SECO	ND FLOOR	4	No	WIDTH OF 1ST STORY (FT.)	49	WIDTH OF 2ND STORY (FT.)	43
EXTERIOR SHEATHI	NG OPTION FOR FIRST	FLOOR	4		DEPTH OF 1ST STORY (FT.)	44	DEPTH OF 2ND STORY (FT.)	35
				n an	BACK WALL OF GARAGE (FT.) GAR. WALL: 1≈F+B, 2≈S-S	32 2	en e	
· · · · · · · · · · · · ·				:		<u> </u>	· · · · · · · · · · · ·	general de la composition de
		SE	EXTEP ISMIC	RIOR STRUCTURAL WALL	ENGTHS (IL) & RESISTANCES	WIND		
	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (Ibs.)	FRONT-TO-BACK	RESISTANCE (lbs.)	SIDE-TO-SIDE	RESISTANCE (ibs.
2ND FLOOR 1ST FLOOR	<u>55</u> 80	15400 22400	60 75	16800	55	21560	60	23520
	<u>au</u>			21000	80	31360	75	29400
	х.,	ADDITIONAL RESIS	TANCE REQUIRED		Anchor Bolt Spacing diameter (in.)	(in.) 0.5	16d Nail Spacing reg'd at 2nd Floor F-B	lesser in se
2ND FLOOR FRONT- 2ND FLOOR SIDE-TO	and the second second second second second	0	0		Shear value (per NDS) Spacing F-B (inches)	944 114.6	2nd Floor S-S 1st Floor F-B	1
1ST FLOOR FRONT	OBACK	0	0		spacing S-S (inches)	146.4	1st Floor S-S	
1ST FLOOR SIDE-TO			t see de la 0 de see de la l				· · · · · · · · · · · · · · · · · · ·	
				RED IN ADDITION TO RES	ISTANCE PROVIDED BY EXTERIOR W	ALLS** INT, WALL LENGTH		
· · · · · ·		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?
2ND FLOOR FRONT- 2ND FLOOR SIDE-TO		0				······································	0	YES YES
1ST FLOOR FRONT-	O-BACK	0					0.000	YES
2) SEE SHEET S1 F(TACHED CALCULATION R INTERIOR STEEL X-	BRACE INSTALLATION,	3) INTERIOR WALLS SH	HEATHED WITH OSB SHAL	 APACITIES (IF APPLICABLE), L BE ATTACHED WITH SAME STAPLE IT SECTIONS OF 2-8" OR LONGER	 /NAILING	holdo estano (046) estano (046) estano estano estano estano estano	YES
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WIND UPLIFT	ANALYSIS			
ROOF PITCH (MAX)	X/12 7	DEGREES 30.3	PITCH OF 6 OR I FSS	EOH-13.3, E -7.2, G -5.2			· · · · · · · · · · · · · · · · · · ·	·····
	LENGTH (FT.)	ASCE 7		· · · · · · · · · · · · · · · · · · ·	∎ a sea a an			
OVERHANG	1	PRESSURE (PSF) -1.08	LINEAL FT. OF OH 188	UPLIFT PER FT* (LBS) -1.08	n na sa	· · · · · · · · · · · · · · · · · · ·	· · · ·	· . · · · ·
MAIN ROOF**	TOTAL AREA (FT ²) 2156	ZONE E AREA (FT ²) 1063.04	ZONE G AREA (FT ²) 1092:96	PRESSURE ZN. E (PSF)	PRESSURE ZN. G (PSF)	TOTAL FORCE (LBS)	FORCE PER LINEAL FT @	PERIMÉTER (LBS)
*ALONG PERIMETER		TOTAL UPLIFT PER LINEAL	· · · · · · · · · · · · · · · · · · ·			• • • • • • • • • • • • • • • • • • • •	<u> </u>	<u>a seconde de la compo</u> nsión de la componente de La componente de la compone
*INSIDE EXTERIOR		RESISTANCE DUE TO DEAD	a di sana di ka kasa 🕺 🕺	(a) a figure and a second sec second second sec	-9.4 251.6	UPLIFT OK		

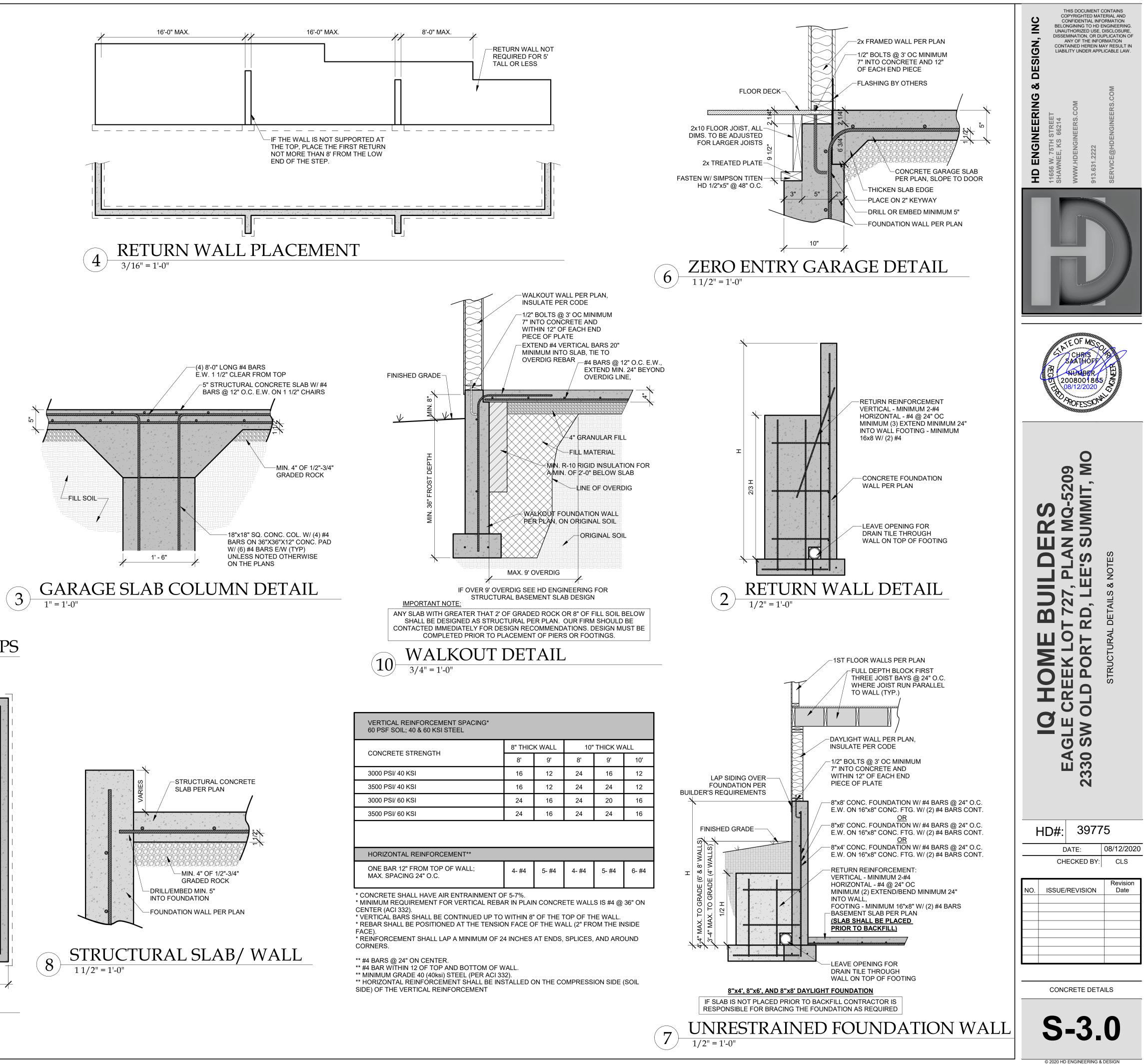
NOTE FOR CONSTRUCTION: THE CONTINUOUS STRUCTURAL PANEL SHEATHING BRACING METHOD REQUIRES USE OF THE ABOVE TABLE FOR SHEATHING OF THE ENTIRE STRUCTURE. IN ADDITION, FRAMING MEMBERS SHALL BE @ 16" O.C. MAX., UNBLOCKED, AND W/ SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS NOTE FOR DESIGN:

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 2012 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 DR F, CONSULT ENGINEER BEFORE PROCEEDING

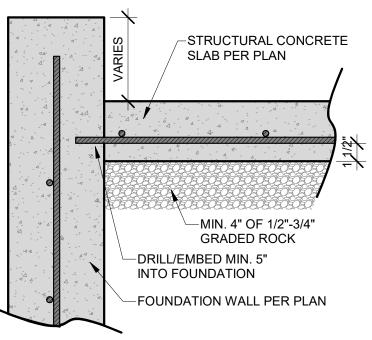
WITH CONSTRUCTION







	8" THICK WALL		10" THICK WALL			
CONCRETE STRENGTH	8'	9'	8'	9'	10	
3000 PSI/ 40 KSI	16	12	24	16	12	
3500 PSI/ 40 KSI	16	12	24	24	12	
3000 PSI/ 60 KSI	24	16	24	20	16	
3500 PSI/ 60 KSI	24	16	24	24	16	



(8)

