





Line Two Wide Three Wide Four Wide Center Line With

ARTWORK NOT TO SCALE

SW 4W

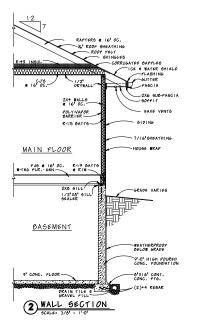
© 2016

LOT 390 PARK RIDGE 8 NE PARK SPRINGS TERR, LEE'S SUMMIT, MO 1528

Plan :5-15-23 2028 For Sed:

Sheet No.











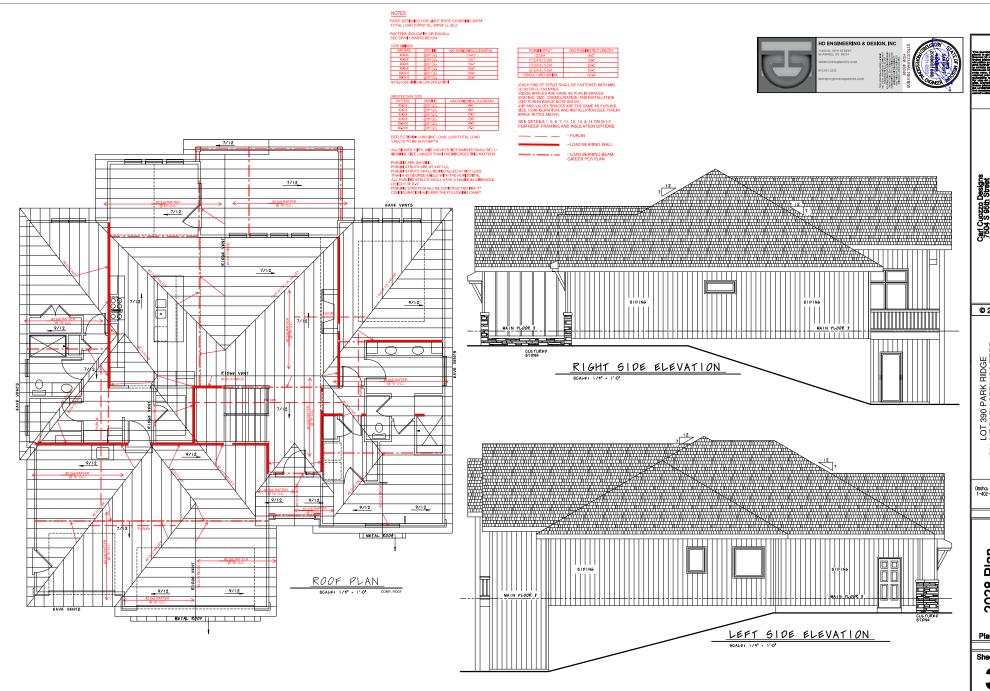


© 2016

LOT 390 PARK RIDGE 1528 NE PARK SPRINGS TERR., LEE'S SUMMIT, MO

g 2028 Plan ≷Revised:5-15-23

Sheet No.



signs reet 128 9 net

9 2016

© 2016

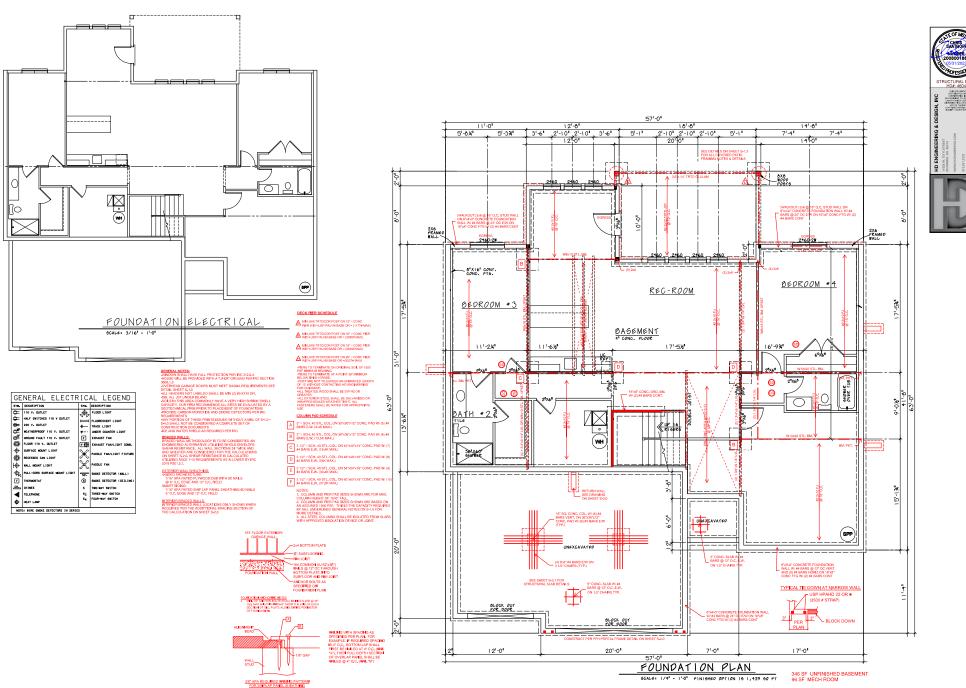
LOT 390 PARK RIDGE 1528 NE PARK SPRINGS TERR. LEE'S SUMMIT, MO

a Nahwaaka

2028 Plan FRevised:5-15-23

Sheet No.

Sheet N



STRUCTURAL REVIEW

Hand Schools

STRUCTURAL REVIEW

Control of the schools

Co





© 2016

LOT 390 PARK RIDGE NE PARK SPRINGS TERR., LEE'S SUMMIT, MO

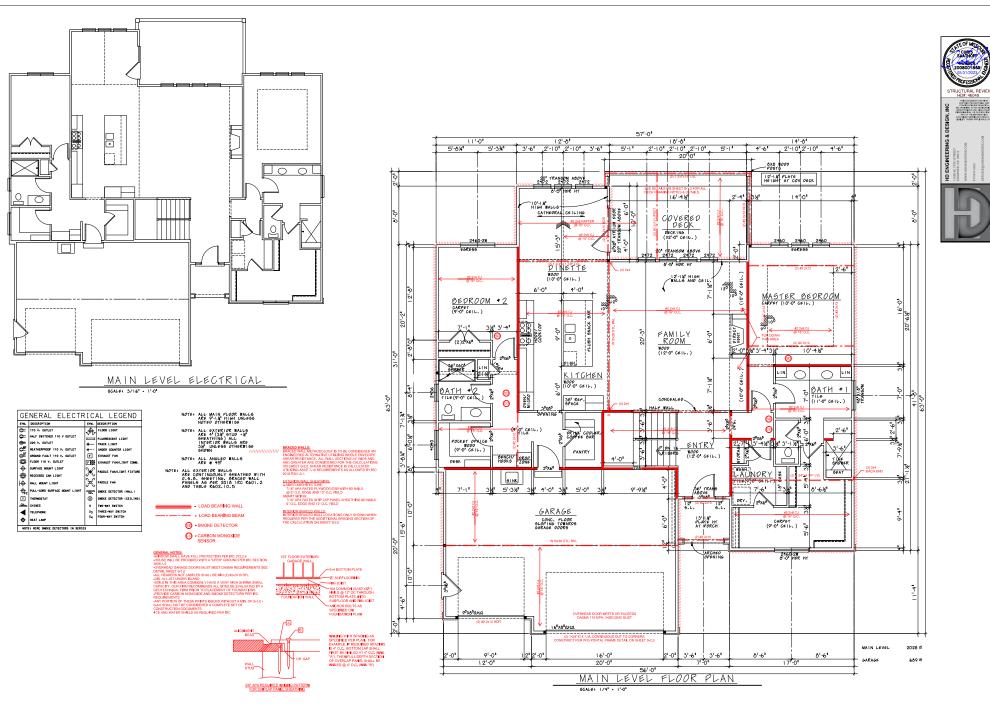
a Naharaka

1528

2028 Plan FRevised:5-15-23

Sheet No.

sheet No.





© 2016

LOT 390 PARK RIDGE 1528 NE PARK SPRINGS TERR., LEE'S SUMMIT, MO

Plan :5-15-23 2028 Forest

Sheet No. 5

ALLOWABLE LOADS FOR PNEUMATIC OR MECHANICALLY DRIVEN NAILS AND STAPLES

	NAIL GUN		PENETRATION	ALLOWABLE LOADS (POUNDS)			
FASTENER DESCRIPTION	NAILS/ WIRE	WIRE GAGE	REQUIRED INTO MAIN MEMBER FOR LATERAL STRENGTH (INCHES)	LATERAL STRENGTH WITHDRAWAL STREN			L STRENGT
	DIAMETER	OHOL		SP	DF/L	SP	DF/L
16 GA. STAPLE	.063	16	1	51		36	32
15 GA, STAPLE	.072	15	1	64		42	37
14 GA, STAPLE	.080	14	1	75		46	41
6d COOLER NAIL							
6d SINKER NAIL	.092	13	1	46		27	23
6d BOX NAIL						35 31	24
6d CASING NAIL	.099	12-1/2	1-1/8	61	55		
7d COOLER NAIL	1						
6d COMMON NAIL							
8d COOLER NAIL	1						
8d SINKER NAIL	.113	11-1/2	1-1/4	79	72	35	28
8d BOX NAIL	1						
8d CASING NAIL	1						
6d RING SHANK NAIL							
6d SCREW SHANK NAIL				89 81		41	32
8d RING SHANK NAIL	.120	11	1-3/8		81		
8d SCREW SHANK NAIL	1						
10d COOLER NAIL					81		
10d SINKER NAIL	.128	10-1/2	1-1/2	89		36	31
12d SHORT							
10d BOX NAILS	.128	28 10-1/2 1-1/2 101 93					
12d BOX NAILS			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	1		440				
12d RING SHANK NAILS	.135	10	1-5/8	113	103	46	36
12d SCREW SHANK NAILS	1						
10d COMMON NAILS							
12d COMMON NAILS	1						
16d SINKER NAILS	.148	9	1-5/8	128	118	46	36
20d BOX NAILS	1						
30d BOX NAILS	1						
16d RING SHANK NAILS	440	9	1-3/4	128		50	
16d SCREW SHANK NAILS	.148	9	1-3/4	128	118	50	40
16d COMMON NAILS	162	8		454			40
40d BOX NAILS	.162		1-3/4	154	141	50	40
20d RING SHANK NAILS	477		0.470	470	400		
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	l l	_					l
30d SINKER NAILS	.148	9	2-1/8	170	166	59	47

MINIMUM SHEATHING REQUIREMENTS

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

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

HIP/ VALLEY ALLOWABLE SPAN TABLE

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

FRAME FASTENING SCHEDULE

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

"JOIST HANGER NOTES:
a. NO JOIST HANGER NAILS ALLOWED FOR TOENAILS.
b. NO GUN NAILS OR SCREWS ALLOWED IN CONNECTO
c. TOENAILS SHALL ALLWAYS BE A FULL 3" OR 3.5" NAIL.

COLUMN CONNECTION TO STEEL BEAMS SHALL SEWTH A CLIP POST CAP WITH ALL FOUR TAB FARS SENT AROUND THE BOTTOM FANKE OF THE BEAM FOR A BERRIEG PLAYEFOUR HOLDES SHALL SE DRILLED IN THE BOTTOM FLAMED OF FLAT WASHER LOOK WASHER AND AUT IN EACH OF THE BOLES. THE POST COW PAIR WAS REVISED TO THE STEEL BEAM IN ACCORDANCE WITH AWS DIL-HEZ AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTRED INSPECTA

DUCT SEALING METHOD, PER 2018 IRC W1103.3.2

N1103.2.2 (R403.2.2) SEALING (MANDATORY) DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION MIRDLA 1 OF THIS CODE.

EXCEPTIONS:

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

A.A.H.A.PERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL, JOINT CASALS, "A MERICA DUTC COMMETTED IN SIMOLE THE SECRET SOR OR INSTITS SHALL BE ESCALAR OLD COMMETTED IN SIMOLE THE SECRET SHALL THE SECRET SHALL SHALL SHALL SPACED ON THE ESCRETE SHALL S

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

GENERAL NOTES:

1. AND SMITCH ARE MORE THAN THE SET INTERNATIONAL REPREBETIFIEL CODE IS CLAS DOOFTED BY AUL AND ALL AMENDMENTS AS ANOTHER IF THE AFILE JAW CHANGES AND AND ALL AMENDMENTS AS ANOTHER IF THE AFILE JAW CHANGES AND AMERICAN PROPOGRAPH AND THE REPORT AND THE REPORT AND AND ALL AN

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

THE FOUNDATION DESIGN SHALL COMPLY WITH THE EMPORCHING JURISDICTION RESIDENTIAL FOUNDATION STANDARD IN LEU OF PROBLEMENTS BASED ON A TIME, AT IS COMPTION.

CONTROL THIS PROPOSED FROM A ROUND USABLE SPACE BELOW GRADE OR OTHER BOLIVALENT MATERIALS PER RIS SECTION 405. THE PER PROMISE PROVIDED A NUMBER OF THE FOUNDATION OF TH

OF 1/5.* CONCRETE FLOOR SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, OR CRUSHED STONE. BASEMENT SLABS SHALL HAWE A MINIMUM 8 ML POLYTETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" AND SHALL BE PLACED BETWEEN THE FLOOR SLAB

AND THE BRIEF COURSE.

HOURS ALSO SUPPORTED BY FILL CONSISTING OF MORE THAN O'R GRANLAR HALL OR O'R FEATH SHALL BE REPROPEDED BY A SPRANKE PROMISED AND THE FLOW AND THE FLOW

WAY LOTTE:

STANDAYS SHALL PROVEE A MAXIMUM 7 1/4 (RISE AND A MINIMUM 10' RUN.

PROVIDE MINIMUM SE CULARDRALS ON THE OPEN DISES OF PASSED FLOORS, PORCHES AND BALCONIES. PROVIDE MINIMUM SE' CULARDRALS ON THE OPEN SIDES OF STANDAYS LOCATED AND THE TOP AND THE FLOOR OF GORDERS ENDED AND THE OPEN SIDES OF STANDAYS LOCATED AND THE TOP AND THE FLOOR OF GORDERS ENDED AND THE PROVIDE AND THE FLOOR OF THE TENNE SHALL PROVIDE A CONTINUOUS MARDRAL ON A T LEAST ONE SIDE BETWEEN 3'4" AND 3"4" ADDOCT HE MOSING OF THE TENNE SHALL PROVIDE A CONTINUOUS MARDRAL ON A T LEAST ONE SIDE BETWEEN 3"4" AND 3"4" ADDOCT HE MOSING OF THE TENNE SHALL PROVIDE A CONTINUOUS MARDRAL ON A T LEAST ONE SIDE BETWEEN 3"4" AND 3"4" ADDOCT HE MOSING OF THE TENNE SHALL PROVIDE A CONTINUOUS MARDRAL AND AND AND THE MOSING OF THE TENNE SHALL PROVIDE A CONTINUOUS MARDRAL AND THE AND THE MOSING OF THE TENNE SHALL PROVIDE A CONTINUOUS MARDRAL AND THE AND THE MOSING OF THE TENNE SHALL PROVIDE AND THE MOSING OF THE TENNE SHALL PR

ENGLOSURE SIDE.
WINDERS SHALL PROVIDE A MINIMUM TREAD OF 5" AT ANY POINT WITHIN CLEAR WIDTH OF STARS. WINDER TREAD PROPORTION IS TO COMPLY WITH IRC SECTION
8317.76.21

RIATING NOTES:

GAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN INC SECTION RIBE 4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OFFENDED FAMILIS ADJUCCENT TO A DOOR WHISEET THE REARREST VERTICAL EDGE IS WITHIN A 27 HARDLOF THE FOOR IN ALL OSED POSITION AND WHOSE BOTTOM LODE IS WITHIN THE PLACE OF THE FOOR IN ALL OSED POSITION AND WHOSE BOTTOM LODE WITHIN A 27 HARDLOF THE FOOR IN A LOSED POSITION AND THE START AND WHITE SECRET HE GLAZINGS IN WITHIN 40 O'THE TOT OR OFFI THE FOOR IN A PROPRIED SECRET HE GLAZINGS IN WITHIN 40 O'THE TOT OR FOOR TOT OR OF THE START HE GLAZINGS IN THE OWNER OF THE FOOR THE SECRET HE GLAZINGS IN THE OWNER OF THE FOOR THE SECRET HE GLAZINGS IN THE OWNER OF THE FOOR THE SECRET HE GLAZINGS IN THE OWNER OF THE FOOR THE FOOR THE OWNER OWNER OWNER OWNER OF THE OWNER OWNER

STATES OF CHILD WAS SHALL FOL PEACH OF DESIGN THE ALLOW ASSAGE OF A TOMBE ER SPEER WHERE SOLD CHEMINS ARE DUALED WITHIN A OF THE PEACH OF THE ALLOW ASSAGE OF A TOMBE ER SPEER SOLD CHEMINE.

1. ALL LUMBER SIZES ARE FOR BOALD AS FELANCH UNKESS NOTED OTHERWISE.

2. ALL LUMBERS SIZES ARE FOR BOALD AS FELANCH UNKESS NOTED OTHERWISE.

4. ALL HEADERSBEARD ARE TO BEARD ON A SIMBAUM OF JO 24 POSTS UNLESS NOTED OTHERWISE.

4. ALL HEADERSBEARD ARE TO BEARD ON A SIMBAUM OF JO 24 POSTS UNLESS NOTED OTHERWISE.

4. ALL HEADERSBEARD ARE TO BEARD ON A SIMBAUM OF JO 24 POSTS UNLESS NOTED OTHERWISE.

4. ALL HEADERSBEARD ARE TO BEARD ON A SIMBAUM OF JO 24 POSTS UNLESS NOTED OTHER OTHER OTHER SOLD AS A SIMBAUT OF THE OTHER OT

CONCRETE NOTES:
1. CONCRETE SHALL BE AR-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 3000 PSI FOR PORCHES, CARPORTS AND GARAGE FLOOR SLABS.

PRODUCT CREASES AND RESCRIPTORS

PROVIDE CORROD WITHOUT PROPERTIES WHO THAT HAS A MINIMUM OPENABLE AREA OF 5.7 S.F. WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21". IN

ACCITION, THE OPENABLE PORTION OF EGRESS WHO

GARAGE NOTES.

THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS OR SLOPE TO A TRENCH OR UNTRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE EXTERIOR THE GAMAGE FLOOR SHALL SUMPLE LIVEWING THE WINDOWN STATE OF THE CASE OF THE CA

GARAGE VEHICLE DOORS AND TRAKES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND QUIST LOADING PER DAMA 108 AND ASTIME 233-ABE TO SECTION ROUTE.

THE GARAGE SHALL BE SEPARATED FROM THE DWELL IND AND ITS ATTIX AREAS BY MINIMAL "NO FYSIAM BOARD APPLIED TO THE GARAGE SIDE. WHERE HABITABLE SHALL DESIGNED AND THE FOREIGNESS ASSERTED SHALL BE PROTECTED WITH HABITABLE AND THE GARAGE COLORS AND WHEN THE FOREIGNESS ASSERTED SHALL BE PROTECTED WITH HABITABLE AND THE SHALL ASSERTED AND ASSERTED AND THE SHALL ASSERTED AND ASSERTED ASSERTED AND ASSERTED AND ASSERTED AND ASSERTED ASSERTED AND ASSERTED AND ASSERTED ASSERTED ASSERTED AND ASSERTED ASSERTED AND ASSERTED ASSERTED ASSERTED ASSERTED AND ASSERTED ASS

MECHANICAL INSULATION: 1. BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102.1.2 OR THE 2018 ECC. (SEE S-6.0 FOR MORE DETAILS)

BROUSED ATTICS SHALL HAVE GROSS VENTILATION FOR EACH SEPARATS SPACE BY VENTILATING OPERINGS PROTECTED ADMINST THE ENTRANCE OF RAIN OR SHOW, VENTILATING OPERINGS PROTECTED ADMINST THE ENTRANCE OF RAIN OR SHOW, VENTILATING OPERINGS, THE TOTAL FIRST VENTILATION AS AND ADMINISTRATION OF THE AREA OF SPACE VENTILATION. WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED, THE REQUIRED AREA MAY BE REDUCED TO INDICATE.

& DESIGN,

ENGINEERING





9 INC. RIDGE S SUMMIT, ES, II ARK RIC LEE'S

IRAW HOME 1 2028 - LOT 390 PA SPRINGS TERR, L MCGF PLAN PARK McC

HD#: 46049 DATE: 05/31/2023 CHECKED BY: CLS

ISSUE/REVISION Date

	TABLE R602.3(1) FASTENING SCHEDULE					
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{3, b, c}	SPACING AND LOCATION			
		ROOF				
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	4-8D BOX (2 ½" x 0.113"); OR 3-8D COMMON (2 ½" x 0.131"); OR 3-100 BOX (3" x 0.138"); OR 3-3" x 0.131" NAILS	TOE NAIL			
2	CEILING JOISTS TO PLATE	3-3" x 0.131" NAILS	PER JOIST, TOE NAIL			
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (SEE SECTION R802.5.2 AND TABLE R802.5.2)	4-10D BOX (3" x 0.128"); OR 3-16D COMMON (3 ½" x 0.162"); OR 4-3" x 0.131" NAILS	FACE NAIL			
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			
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1 1/4" x 20 GA, RIDGE STRAP TO RAFTER	4-100 BOX (3" x 0.128"); OR 3-100 COMMON (3" x 0.148"); OR 4-3" x 0.131" NAILS	FACE NAIL EACH RAFTER			
6	RAFTER OR ROOF TRUSS TO PLATE	3-16D BOX NAILS (3')* x0.136°; OR 3-16D COMMON NALS (3' x 0.146°; OR 4-00 COMMON NALS (3' x 0.146°; OR 4-00 COMMON NALS (3' x 0.146°; OR 4-100 BOX (3' x 0.139°; OR 3-160 COMMON (3' x 0.146°; OR 4-100 BOX (3' x 0.126°; OR 3-160 COMMON (3' x 0.146°; OR 4-100 BOX (3' x 0.126°; OR 2-160 COMMON (3' x 0.146°; OR 4-100 BOX (3' x 0.126°; OR 2-160 COMMON (3' x 0.146°; OR 3-100 BOX (3' x 0.126°; OR 3-100 BOX (3' x 0.136°; OR 3-100 B	2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS			
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	4-16D (3 ½" x 0.135"); OR 3-10D COMMON (3" x 0.148"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NALS 3-16D BOX (3 ½" x 0.135"); OR 2-3" x 0.131" NALS 3-16D BOX (3 ½" x 0.135"); OR 2-3" x 0.23" x 0.431" NALS	TOE NAIL END NAIL			
		WALL				
8	STUD TO STUD (NOT BRACED WALL PANELS)	16D COMMON (3 ½" x 0.162")	24" O.C. FACE NAIL			
8	STUD TO STUD (NOT BRACED WALL PANELS)	10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	16" O.C. FACE NAIL			
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING	16D BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL			
	WALL CORNERS (AT BRACED WALL PANELS)	16D COMMON (3 ½" x 0.162")	16" O.C. FACE NAIL			
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" O.C. EACH EDGE FACE NAIL 12" O.C. EACH EDGE FACE NAIL			
11	CONTINUOUS HEADER TO STUD	5-8D BOX (2 ½° x 0.113°); OR 4-8D COMMON (2 ½° x 0.113°); OR 4-100 BOX (3° x 0.128°)	TOE NAIL			
		16D COMMON (3 ½" x 0.162")	16" O.C. FACE NAIL			
12	TOP PLATE TO TOP PLATE	10D BOX (3" x 0.128"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL			
13	DOUBLE TOP PLATE SPLICE	8-16D COMMON (3 ½" x 0.162"); OR 12-16D BOX (3 ½" 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)			
14	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D COMMON (3 1/2" x 0,162")	16" O.C. FACE NAIL			
	(NOT AT BRACED WALL PANELS)	16D BOX (3 1/2" x 0.135"); OR 3" x 0.131" NAILS	12" O.C. FACE NAIL			
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (AT BRACED WALL PANEL)	3-16D BOX (3 ½" x 0.135"); OR 2-16D COMMON (3 ½" x 0.162"); OR 4-3" x 0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL			
16	TOP OR BOTTOM PLATE TO STUD	4-8D BOX (2 ½" x 0.113"); OR 3-16D BOX (3 ½" x 0.135"); OR 4-8D COMMON (2 ½" x 0.131"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	TOE NAIL			
		3-16D BOX (3 1/2" x 0.135"); OR 2-16D COMMON (3 1/2" x 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL			
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" x 0.126"); OR 2-16D COMMON (3 ½" x 0.162"); OR 3-3" x 0.131" NAILS	FACE NAIL			
18	1" BRACE TO EACH STUD AND PLATE	3-B DOX (2 1/3 x 0.13); OR 2-BD COMMON (2 1/3 x 0.13); OR 2-BD GOX (2 1/3 x 0.13); OR 2-BD GOX (3 x 0.13)	FACE NAIL			
19	1" x 6" SHEATHING TO EACH BEARING	3-80 BOX (2 "g" x 0.113"); OR 2-80 COMMON (2 "g" x 0.131"); OR 2-100 BOX (3" x 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA., 1 3/4" LONG	FACE NAIL			
20	1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8D BOX (2 1/2" x 0.113"); OR 3-8D COMMON (2 1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA., 1 3/2" LONG	FACE NAIL			
		4-8D BOX (2 ½ ½ x 0.113"); OR 3-8D COMMON (2 ½ x 0.131"); OR 3-10D BOX (3 x 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA., 1 ½ "LONG				
		FLOOR				
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2 1/x" x 0.113"); OR 3-8D COMMON (2 1/x" x 0.131"); OR 3-10D BOX (3" x 0.133"); OR 3-3" x 0.131" NAILS	TOE NAIL			
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D BOY (2 16" v 0 113")	4" O.C. TOE NAIL 6" O.C. TOE NAIL			
23	1" x 6" SUBFLOOR OR LESS TO EACH JOIST	8D COMMON (2 ½ x 0.131"), OR 100 BOX (3" x 0.128"), OR 3 x 0.131" NALS 3-8D BOX (2" ½ x 0.131"), OR 2-8D COMMON (2" ½" x 0.131"), OR 2-100 BOX (3" x 0.128"), OR 2-100 BOX (3" x 0.128"), OR 2 STAPLES, 1" CROWN, 16 GA., 1 ½" LONG	FACE NAIL			
		FLOOR				
24	2° SUBFLOOR TO JOIST OR GIRDER	3-16D BOX (3 ½" x 0.135"); OR 2-16D COMMON (3 ½" x 0.162")	BLIND AND FACE NAIL			
25	2" PLANKS (PLANK & BEAM-FLOOR AND ROOF)	3-16D BOX (3 ½" x 0.135"); OR 2-16D COMMON (3 ½" x 0.162") 3-16D COMMON (3 ½" x 0.162"); OR	AT EACH BEARING, FACE NAIL			
26	BAND OR RIM JOIST TO JOIST	3-160 BOX (3 1/2 x 0.1357) CP 2-160 DOMMON (3 1/2 x 0.1357) CP 3-160 BOX (3 1/2 x 0.1357) CP 2-160 COMMON (3 1/2 x 0.1357) CP 4-160 DOX (3 1/2 x 0.1357) CP 4-100 BOX (3 x 0.1357) CP 4-17 x 0.1317 NAILS; CP 4-37 x 0.1317 NAILS; CP	END NAIL NAIL EACH LAYER AS FOLLOWS: 32* O.C.			
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS		AT TOP AND BOTTOM AND STAGGERED. 24° O.C. 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 ENDS AND AT EACH SPLICE			
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	200 College (19 to 2015) (19 to	AT EACH JOIST OR RAFTER, FACE NAIL			
29 For St 1 inch	BRIDGING OR BLOCKING TO JOIST 1 = 25.4 ram, 1 foot = 264.0 ram, 1 rate per hour = 0.447 rate; 1 kai = 6.085 MPs.	2-100 BOX (3" x 0.128"); OR 2-8D COMMON (2 ½" x 0.131" OR 2-3" x 0.131") NAILS	EACH END, TOE NAIL			

For St 1	inch = 25.4 mm, 1 foot = 304.0 mm, 1 mle per hour = 0.447 m/n; 1 kei = 6,995 MPs.
ě.	IAM S ARE SMOOTH-COMMON, BOX OF DEFORMED SHAWES DECEPT WHERE OTHERWISE STATED, NALS USED FOR FRAMING AND SHEATHING COMMECTIONS SHALL HAVE MANIAM AMERICE BENDRICK VIEW OF THE SHAW DIMETER OF OR 10 PLAY OF COMMON MALL, I WORS FOR SHAW DIMETER OF OR 10 PLAY OF COMMON MALL, I WORS FOR SHAW DIMETER OF OR 12 PLAY OF COMMON MALL OF THE OFFICE AND ADDRESS OF THE OFFICE ADDRESS OF THE OFFICE AND ADDRESS OF THE OFFICE ADDRESS
b.	STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16 NOH ON DIAMETER CROWN WIDTH.

SINCE DATE IS SHED WITH ADMINISTRATION OF CONTROLLING AND CONT

CONTINUED TABLE R602.3(1) FASTENING SCHEDULE

пем	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a, b, c}	SPACING OF FASTENERS				
IIEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	EDGES (INCHES) ^h	INTERMEDIATE SUPPORTS (INCHES			
	WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERDRIVALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING [SEE TABLE R692.3(5) FOR WOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO WALL FRAMING)						
30	3/6" = 1/2"	6D COMMON (2" x 0.113") NAIL (SUBFLOOR, WALL) 8D COMMON (2 1/5" x 0.131") NAIL (ROOF); OR RSRS-01 (2 1/6" x 0.113") NAIL (ROOF)	6	12'			
31	19/ ₃₂ " - 1"	8D COMMON NAIL (2 1/2" x 0.131"); OR RSRS-01 (2 1/6" x 0.113") NAIL (ROOF)	6	121			
32	1 1/4" - 1 1/4"	10D COMMON (3" x 0.148") NAIL; OR 8D (2 1/5" x 0.131") DEFORMED NAIL	6	12			
	OTHER WALL SHEATHING®						
33	1/3" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOFING NAIL, 7/4" HEAD DIAMETER, OR 1 1/4" LONG 16 GA. STAPLE WITH 7/4" OR 1" CROWN	3	6			
34	²⁵ / ₃₂ * STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	134" GALVANIZED ROOFING NAIL, 746" HEAD DIAMETER, OR 1 1/2" LONG 16 GA, STAPLE WITH 746" OR 1" CROWN	3	6			
35	1/2" GYPSUM SHEATHING [©]	1 1/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1 1/4" LONG; 1 1/4" SCREWS, TYPE W OR S	7	7			
36	% GYPSUM SHEATHING €	1 3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1 5/4" LONG; 1 5/4" SCREWS, TYPE W OR S	7	7			
	WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING						
37	³ / ₄ * AND LESS	6D DEFORMED (2" x 0.120") NAIL; OR 8D COMMON (2 1/5" x 0.131") NAIL	6	12			
38	7/g* - 1*	8D COMMON (2 ½ x 0.131*) NAIL; OR 8D DEFORMED (2 ½ x 0.120*) NAIL	6	12			
39	1 1/4" - 1 1/4"	10D COMMON (3" x 0.148") NAIL; OR 8D DEFORMED (2 1/s" x 0.120") NAIL	6	12			

TABLE R602.3(2) ALTERNATE ATTACHMENTS TO TABLE R602.3(1)

NOMINAL MATERIAL		SP/	SPACING® OF FASTENERS		
THICKNESS (INCHES)	DESCRIPTION*- OF FASTENER AND LENGTH (INCHES)	EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHES		
WOOD STRUCT	URAL PANELS SUBFLOOR, ROOF® AND WALL SHEATHING TO FRAMING AND PART	CLEBOARD WALL SH	EATHING TO FRAMING!		
	STAPLE 15 GA, 1 ¾	4	8		
UP TO 1/2	0.097 - 0.099 NAIL 2 1/4	3	6		
	STAPLE 16 GA. 1 ¾4	3	6		
	0.113 NAIL 2	3	6		
19/ ₃₂ AND 9/ ₈	STAPLE 15 AND 16 GA. 2	4	В		
	0.097 - 0.099 NAIL 2 1/4	4	8		
	STAPLE 14 GA. 2	4	8		
	STAPLE 15 GA, 1 %	3	6		
23/ ₃₂ AND 3/ ₄	0.097 - 0.099 NAIL 2 1/4	4	8		
	STAPLE 16 GA. 2	4	8		
	STAPLE 14 GA, 2 1/6	4	8		
	0.113 NAIL 2 1/4	3	6		
,	STAPLE 15 GA. 2 1/4	4	8		
	0.097 - 0.099 NAIL 2 1/2	4	8		
NOMINAL MATERIAL		SPACING® OF FASTENERS			
THICKNESS (INCHES)	DESCRIPTION*-9 OF FASTENER AND LENGTH (INCHES)	EDGES (INCHES)	BODY OF PANEL® (INCHES)		
	FLOOR UNDERLAYMENT; PLYWOOD-HARDBOARD-PARTICLEBOARD	FIBER-CEMENT ^b			
	FIBER-CEMENT				
	3D, CORROSION-RESISTANT, RING SHANK NAILS (FINISHED FLOORING OTHER THAN TILE)	3	6		
	STAPLE 18 GA, 7 ₆ LONG, 7 ₆ CROWN (FINISHED FLOORING OTHER THAN TILE)	3	6		
1/4	11/4 LONG x.121 SHANK x.375 HEAD DIAMETER CORROSION-RESISTANT (GALVANDZED OR STAINLESS STEEL) ROOFING NALS (FOR TILE FINISH)	8	8		
	1 1/4 LONG, NO. 8 x .375 HEAD DIAMETER, RIBBED WAFER-HEAD SCREWS (FOR TILE FINISH)	8	8		
	PLYWOOD	-			
	1 1/4 RING OR SCREW SHANK NAIL-MINIMUM 12 1/2 GA. (0.099*) SHANK DIAMETER	3	6		
1/4 AND 5/16	STAPLE 18 GA., 7/6, 7/16 CROWN WIDTH	2	5		
11/ ₃₂ , 3/ ₆ , 15/ ₃₂ AND 1/ ₂	1 1/4 RING OR SCREW SHANK NAIL-MINIMUM	6	8"		
	12 ½ GA. (0.099°) SHANK DIAMETER 1 ½ RING OR SCREW SHANK NAIL-MINIMUM 12 ½ GA. (0.099°) SHANK DIAMETER	6	8		
19/ ₃₂ , 5/ ₆ , 23/ ₃₂ AND 3/ ₄	12 ½ GA. (0.099°) SHANK DIAMETER STAPLE 16 GA.1 ½	6	8		
	HARDBOARD!				
	1 1/2 LONG RING-GROOVED UNDERLAYMENT NAIL	6	6		
0.200	4D CEMENT-COATED SINKER NAIL	6	6		
	STAPLE 18 GA., 7/s LONG (PLASTIC COATED)	3	6		
	PARTICLEBOARD	· ·	·		
	4D RING-GROOVED UNDERLAYMENT NAIL	3	6		
1/4	STAPLE 18 GA., 7/s LONG, 3/ss CROWN	3	6		
	6D RING-GROOVED UNDERLAYMENT NAIL	6	10		
3/6	STAPLE 16 GA., 1 1/s LONG, 1/s CROWN	3	6		
	6D RING-GROOVED UNDERLAYMENT NAIL	6	10		
1/2, 5/6	STAPLE 16 GA., 1 % LONG, % CROWN	3	6		
2 SH 1 Josh = 25 4 rem	STAPLE IS GA, I 1/1 LUNG, 1/2 URUWIN	,			

THE TIMES SERVED.

THE SERVED SERVED SERVED SHALL BE PRESENTED TO BE EVACUATION OF ROOM WHICH SERVED SHALL BE PRESENTED TO BE EVACUATION OF ROOM WHICH SHALL BE READ OF SHALL BE SHALL

DESIGN LOADS (PSF)

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 I	NORMAL

HEAVY ROOF COVERING MATERIAL (TILE, CONCRETE, SLATE, ETC.) SHALL NOT BE USED UNLESS 20 PSV DEAD (JAD) AND HEAVY ROOF IS NOTED ON THE ROOF PLAN, NOTEY ENONEMED FOR THE ROOF PLAN, NOTEY ENONEMER PROOF DIAN OF THE ROOF PLAN OF THE

COLUMN SCHEDULE

BASED ON FOOTING SIZE (ASSUME 1500 PSF SOIL)

PAD SIZE	REINFORCEMENT	COL. MIN	COL. TYPE	MAX. LOAD
24"x24"x12"	(4) #4 BARS E/W	3"	SCH40	6K
30"x30"x12"	(5) #4 BARS E/W	3"	SCH40	9.4K
36"x36"x12"	(6) #4 BARS E/W	3"	SCH40	13,5K
42"x42"x14"	(7) #4 BARS E/W	3 1/2*	SCH40	18.4K
48"x48"x16"	(8) #4 BARS E/W	3 1/2*	SCH40	24.0K
54"x54"x16"	(9) #4 BARS E/W	3 1/2"	SCH40	30.4K
60"x60"x18"	(10) #4 BARS E/W	3 1/2*	SCH40	37.5K

COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CUIP POST CAP WITH ALL FOUR TAB EARS BEST RANGING THE BEAM. FOR ALL STATE ABOUND THE SHOTTOM FLANCE OF THE BEAM. FOR ALL STEEL BEAM TO MANOT HE HOLD FLANTEN OF THE FLATE. "A" 2 BOLLS SHOULD THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, MAD A MUT IN EACH OF THE FLATE. SHE POST CAP MAY BE WELLED TO THE STEEL BEAM IN ACCORDANCE WITH AWS DIT-12 SA M ALTERNATIVE, MAD WOULD NEED TO BE INSPECTED BY A MAY SCENTIED IN SECTIOR.

ENGINEERED LUMBER

MIN, DESIGN REQUIREMENTS

	F _b (psi)	E (psi)	F _c (psi)		
LVL	2600	1.8x10	285		
GLULAM	2400	1,8x10	190		
PARALAM	2600	2.0x10	290		

BILLIOER IR AME. THE TERM WILLDERS PLANS REFERS TO A CEPTAN LEVEL OF DOVELOPMENT OF THE DOWNROSE. AS THE MARE MINES PRESE FLANS REQUIRE THAT THE CONTRACTOR PROSESSES COUNTERFORCE IN RESPONDENCE CONSTRUCTION AND AT INFORM LIGHESTATIONS OF THE INTERMATION. CEREBOSHING, COSE BILL, THE CONTRACTOR WINDOWS TO LIGHE CONTRACTOR WINDOWS TO LIGHT CONTRACTOR WINDOWS TO LIGHT CONTRACTOR WINDOWS TO LIGHT CONTRACTOR WINDOWS TO LIGHT CONTRACTOR OF THE CONTRACTOR HAS RESTRICTED THE CONTRACTOR OF THE CONTRACTOR HAS RESTRICTED THE LIGHT CONTRACTOR OF THE CONTRACTO

HD ENGINEERING & DESIGN, INC



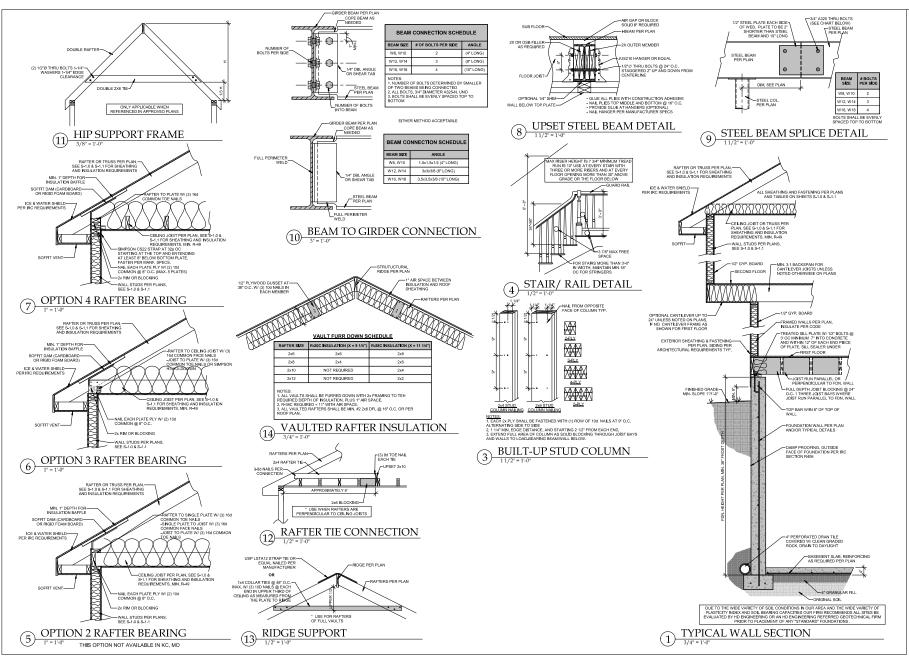


, 8 McGRAW HOMES, INC. PLAN 2028 - LOT 390 PARK RIDGE E PARK SPRINGS TERR., LEE'S SUMMIT

HD#: 46049

DATE: 05/31/2023

	CHECKED BY:	CLS
NO.	ISSUE/REVISION	Revision Date
_		
_		_
\vdash		
-		_
-		_



ENGLINE CONNECTION OF THE PROPERTY OF THE PROP





MCGRAW HOMES, INC. PLAN 2028 - LOT 390 PARK RIDGE E PARK SPRINGS TERR, LEE'S SUMMIT, MO

HD#: 46049

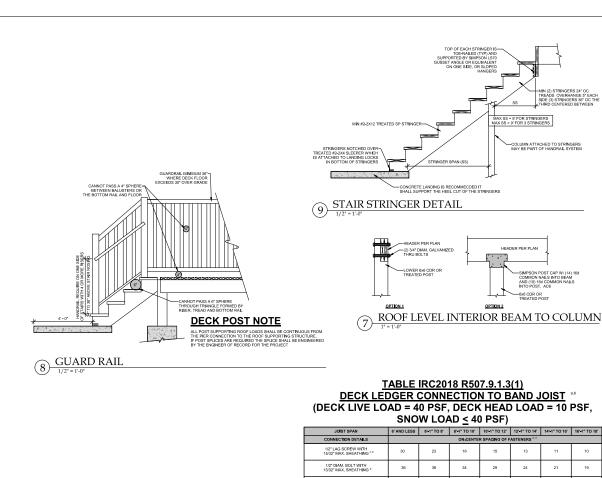
DATE: 05/31/2023
CHECKED BY: CLS

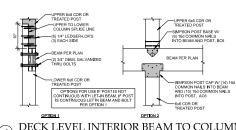
빌

NO. ISSUE/REVISION Revision Date

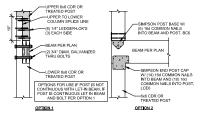
FRAMING SECTION

S-1.2





DECK LEVEL INTERIOR BEAM TO COLUMN



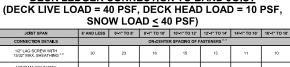
DECK LEVEL EXTERIOR BEAM TO COLUMN

DECK LEDGER TO CANTILEVER

SIMPSON LS900 GUSSET ANGLES OR EQUIVALENT, NAILED TO BOTH SIDES OF DOUBLED JOISTS OR DOUBLED WOOD I-JOISTS WITH 12 - N10 NAILS

DOUBLED 2X10'S OR DOUBLED I-JOISTS AT 16" OC WITH SOLID BLOCKING BETWEEN EACH JOIST OVER FOUNDATION WALL

-FOUNATION OR FRAMED WALLS PER PLAN, INSULATE PER CODE



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 ()								
1/2" LAG SCREW WITH 15/32" MAX, SHEATHING ^{6,0}	30	23	18	15	13	11	10			
1/2" DIAM, BOLT WITH 15/32" MAX, SHEATHING ⁶	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			

Fig. 51. 1-th. - 25.4-m. ft four 5.04-m. ft jourd for example for 5.0,641 MPs.

a. Lodges also for distort is conclusive similar Sector 970.3.4 to great water from contacting the house band joist.

b. Show load stall not be assumed to act concurrently with five food.

7. The tig of the ligo acrow and fully stress together be made to core for be and joist.

7. The tig of the ligo acrow and fully stress together the results incore of the term joist.

8. Sheathing shall be permitted to be avoid structural grant part and grant beard, fleet-fored further or form sheathing. Up to 102" thinchness of stacked washers shall be permitted to substitute for you to 12" of avoided sheathing for the processing the state of the processing the state of the processing through the processing the processing through the processing

TABLE IRC2018 R507.9.1.3(2) PLACEMENT OF LAG SCEWS AND BOLT IN **DECK LEDGERS AND BAND JOISTS**

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

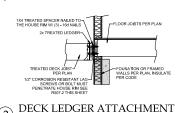
For St. 1 (sub - 25,54m).

a. Lag proters of cits half be staggered from the top to the bottom along the horizontal run of the dock ledger in accordance with Figure 1507 51,3(1)

b. The inaccordance with Figure 1507 51,3(1)

c. For engineered principle, the municidense're recommendations shall govern.

d. The minimum distances from bottom row of lag screes or botto to the top of the ledger shall be in accordance with Figure 1507 at, 3(1).



2v TREATED LEDGE

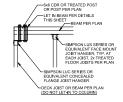
TREATED DECK JOIST-1/2" CORROSION RESISTANT LAG SCREWS OR BOLT MUST PENETRATE HOUSE RIM SEE R507.9.1.3(1) THIS SHEET

-MIN (2) STRINGERS 24" OC TREADS OVERHANGE 5" EACH SIDE (3) STRINGERS 36" OC THE ∠THIRD CENTERED BETWEEN

-SIMPSON POST CAP W/ (14) 16d COMMON NAILS INTO BEAM AND (10) 16d COMMON NAILS

AND (10) 16d COM INTO POST, AC6

-6x6 CDR OR TREATED POST



DECK CORNER COLUMN

HD ENGINEERING & DESIGN, INC





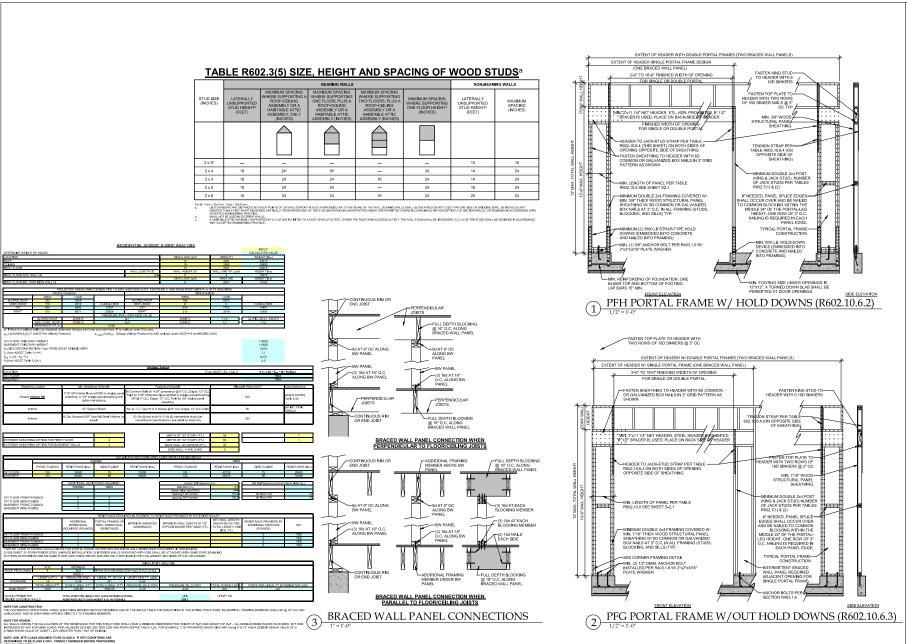
, MO

McGRAW HOMES, INC. PLAN 2028 - LOT 330 PARK RIDGE E PARK SPRINGS TERR., LEE'S SUMMIT,

HD#: 46049 DATE: 05/31/2023 CHECKED BY: CLS



S-1.3



HD ENGINEERING & DESIGNATION OF THE PROPERTY O





CHRISTI SANIOTI Workers 2008001865 COSTONIOS C

McGRAW HOMES, INC.
PLAN 2028 - LOT 330 PARK RIDGE
28 NE PARK SPRINGS TERR., LEE'S SUMMIT

HD#: 46049

DATE: 05/31/2023
CHECKED BY: CLS

ico. Issue/Revision Revision Date

BRACED WALL NOTES & DETAILS

S-2.0

8'-0" 4'-7" 8'-0" 5'-2" 10'-0" 5'-9" 10'-0" LIB BRACING 3/8" = 1'-0"

TABLE R602.10.5 MINIMUM LENGTH OF BRACED WALL PANELS

			MINIMUM	LENGTH			
METHOD (SEE TABLE R602.10.4)			w	ALL HEIGI	CONTRIBUTING LENGTH (INCHES)		
		8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	
DWB,WSP,SFB,PBS,PCP,HPS,BV-WSP			48	48	53	58	ACTUAL ^b
	48	48	48	53	58	DOUBLE SIDED = ACTUAL SINGLE SIDED= 5xACTUAL	
	LIB	55	62	69	NP	NP	ACTUAL ^b
ABW	SDC A, B, AND C ULTIMATE DESIGN WIND SPEED<140	28	32	34	38	42	48
ADIV	SDC D _i ,D _i ,D _i ,D _i ,ULTIMATE DESIGN WIND SPEED<140	32	32	34	NP	NP	40
PFH	SUPPORTING ROOF ONLY	16	16	16	NOTE C	NOTE C	48
FFF	SPTNG. ONE STORY & ROOF	24	24	24	NOTE C	NOTE C	48
	PFG	24	27	30	NOTE D	NOTE D	1.5 x ACTUAL ^b
	CS-G	24	27	30	33	36	ACTUAL ^b
	CS-PF	16	18	20	NOTE E	NOTE E	ACTUAL ^b
	ADJACENT CLEAR OPENING HEIGHT (INCHES)						
	s64	24	27	30	33	36	
	68	26	27	30	33	36	
	72	27	27	30	33	36	
	76	30	29	30	33	36	
	80	32	30	30	33	36	
	84	35	32	32	33	36	
	88	38	35	33	33	36	
	92	43	37	35	35	36	
CS-WSP.	96	48	41	38	36	36	ACTUAL ^b
CS-SFB	100	-	44	40	38	38	
	104		49	43	40	39	
	108	-	54	46	43	41	
	112	-	-	50	45	43	
	116	-	-	55	48	45	
	120	-	-	60	52	48	
	124	-	-	-	56	51	
	128	-	-	-	61	54	
	132	-	-	-	66	58	
	136	-	-	-	-	62	
	140	-	-	-	-	66	
	144	-	-	-	-	72	

BRACED WALL PRESCRIPTIVE METHOD: CONTINOUS EXTERIOR SHEATHING (CS-WSP) PER WSP METHOD (BELOW) UNLESS OTHERWISE NOTEO ON THE PLAN

EXTERIOR BRACED WALL METHOD: (SEE ON THIS SHEET)

WOOD STRUCTURE AREL SHEATHING WITH A TRICKNESS NOT LESS THAN 36" WITH MINIBULM SPANMOOD STRUCTURE AREL SHEATHING WITH A MINICULAS NOT LESS THAN 36" WITH MINIBULM SPANFIELD OS SHEATHING THOOMESS NOT LESS THAN 716" WITH MINIBULM SPAN RATING OF 24116 FOR 24" O.C.
FIELD OS SHEATHING THOOMESS NOT LESS THAN 716" WITH MINIBULM SPAN RATING OF 24116 FOR 24" O.C.
ROTEL FRAMING MEMBERS 10" O.C. MOAZ, UNBLOCKED, AND WI SHEATHING APPLIED DIRECTLY TO FRAMING
MEMBERS).

INTERIOR BRACED WALLS (SEE ON THIS SHEET)

INCREMENTAL DRAWLED WAS THE SPACED @ 24" MAXIMUM FASTENED W/ (8-1 14" TYPE "W' OR "S" DRYWALL SCREWS @ 7" O.C. EDGES AND FIELD (MN. 4-4" SECTION FOR BOTH SIDES)

OR

UIB METHOD:

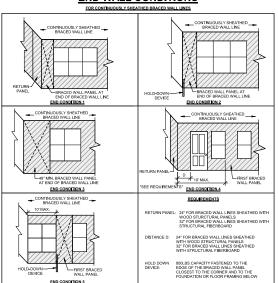
1X4 WOOD FASTENED W/ (3) 8d COMMON NALS OR SIMPSON / USP 16 GA. TYPE WB (OR EQUIVALENT) STL. XBRACE(S) (§ 46" TO 80" ANGLES, MAXIMUM 16" O.C. STUDS FASTENED PER MANUE SPECS.

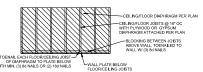
TENSION STRAP CAPACITY REQUIRED FOR RESISTING WIND PRESSURES PERPENDICULAR TO METHOD PFH, PFG AND CS-PF BRACED WALL PANELS IRC2018 TABLE R602.10.6.4

				TENSION STRAP CAPACITY REQUIRED (POUNDS)*			
MINIMUM WALL STUD FRAMING	MAX, PONY	MAX, TOTAL	MAX. OPENING	ULTIMATE DESIGN WIND SPEED V (MPH)			
NOMINAL SIZE & GRADE	WALL HEIGHT (FEET)	WALL HEIGHT (FEET)	WIDTH (FEET)	115	115		
				EXPOSURE B	EXPOSURE C		
	0	10	18	1,000	1,000		
			9	1,000	1,000		
	1	10	16	1,025	2,500		
			18	1,275	2,850		
			9	1,000	1,875		
2X4 NO. 2 GRADE	2	10	16	2,175	4,125		
			18	2,500	DR		
	2		9	1,500	3,175		
		12	16	3,375	DR		
			18	3,975	DR		
	4	12	9	2,750	DR		
	•	12	12	3,775	DR		
			9	1,000	2,025		
	2	12	16	2,150	3,675		
2X6 STUD GRADE			18	2,550	DR		
2A0 3 10D GRADE			9	1,750	3,125		
	4	12	16	2,400	DR		
			18	3,800	DR		

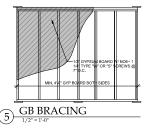
DR = DESIGN REQUIRED
 STRAP SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

END WALL CONDITIONS

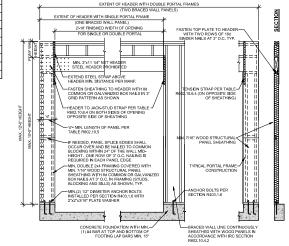




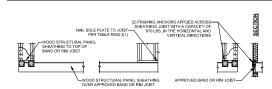
DIAPHRAGM CONNECTION TO INTERIOR WALL



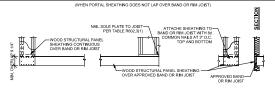
FRONT ELEVATION



OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION



OVER RAISED WOOD FLOOR - OVERLAP OPTION



HD ENGINEERING & DESIGN,



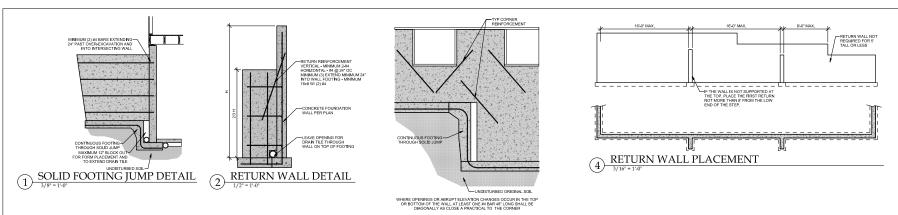


MO

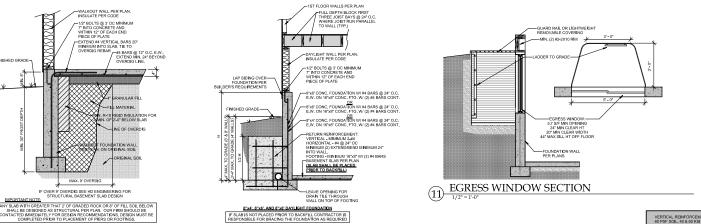
MCGRAW HOMES, INC. PLAN 2028 - LOT 390 PARK RIDGE E PARK SPRINGS TERR., LEE'S SUMMIT

HD#: 46049 DATE: 05/31/2023 CHECKED BY: CLS





REINFORCEMENT AT CORNERS AND STEPS 9



UNRESTRAINED FOUNDATION WALL

WALKOUT DETAIL

(10)

VERTICAL REINFORCEMENT SPACING* 60 PSF SOIL; 40 & 60 KSI STEEL					
CONCRETE STRENGTH	8" THIC	10" THICK WALL			
CONCRETE STRENGTH	8'	9'	8,	9'	10
3000 PSI 40 KSI	16	12	24	16	13
3500 PSI 40 KSI	16	12	24	24	1:
3000 PSI 60 KSI	24	16	24	20	- 10
3500 PSI 60 KSI	24	16	24	24	11

HORIZONTAL REINFORCEMENT**					
ONE BAR 12" FROM TOP OF WALL; MAX, SPACING 24" O.C.	4- #4	5- #4	4- #4	5- #4	6- A

- * CONCRETE SHALL HAVE AIR ENTRAINMENT OF 5-7%.
 ** NAMINUM REQUIREMENT FOR VERTICAL REBAR IN PLAIN CONCRETE WALLS IS #4 @ 35" ON
 CENTER (ACISS) SHALL BE CONTINUED UP TO WITHIN 8" OF THE TOP OF THE WALL.
 ** NEBRAS SHALL BE POSITIONED AT THE TENSION FACE OF THE WALL (2" FROM THE INSIDE
- REBING SPALE BE POSITIONED AT THE TENSION PAGE OF THE WALL (2 PROVIDE HE MADE FACE).

 * REINFORCEMENT SHALL LAP A MINIMUM OF 24 INCHES AT ENDS, SPLICES, AND AROUND CORNERS.

- ** 94 BARS @ 24" ON CENTER.
 ** 94 BAR WITHIN 12.0 F TOP AND BOTTOM OF WALL.
 ** 94 BAR WITHIN 12.0 F TOP AND BOTTOM OF WALL.
 ** MINNIUM, GRADE 04 (09/16) STEEL (PER ACI 332).
 ** HORICONTAL REINFORCEMENT SHALL BE NSTALLED ON THE COMPRESSION SIDE (SOIL SDE) OF THE VERTICAL REINFORCEMENT

HD ENGINEERING & DESIGN, INC





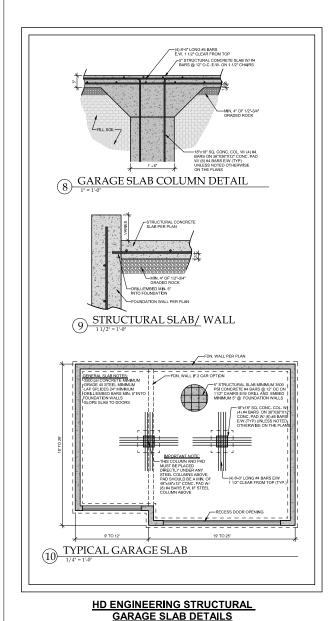
, MO

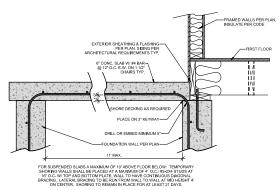
McGRAW HOMES, INC. PLAN 2028 - LOT 330 PARK RIDGE E PARK SPRINGS TERR., LEE'S SUMMIT 빌

HD#: 46996900 DATE: 05/8/202023 CHECKED BY: CLS

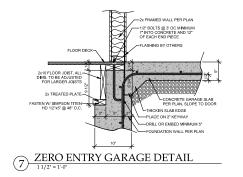
NO.	ISSUE/REVISION	Revision Date
_		
_		

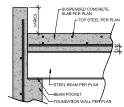
S-3.0



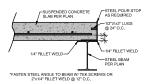


6 SUSPENDED PORCH STOOP SLAB



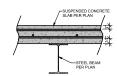


SUSPENDED SLAB BEAM/WALL CONNECTION

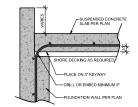


SUSPENDED SLAB POUR STOP

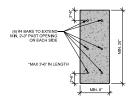
11/2" = 1'-0"



SUSPENDED SLAB/STEELBEAM CROSS SECTION



(4) SUSPENDED SLAB/WALL CONNECTION



CONCRETE HEADER DETAIL

MEDITATI NOTE: 11/2" = 11-41 FOR SUPERIOR SHOWS TO A SOUR FOR SUPERIOR WALLS SHALL BE PLACED AT A MAXIMUM OF 4 O.2, PCAN STUDIOR AT 16 O.2, WITH ON A SOUR FOR A STUDIOR AT 16 O.2, WITH ON A SOUR STUDIOR AT 16 O

HD ENGINEERING & DESIGN, INC



McGRAW HOMES, INC.
PLAN 2028 - LOT 390 PARK RIDGE
NE PARK SPRINGS TERR., LEE'S SUMMIT, MO

HD#: 46049 DATE: 05/31/2023 CHECKED BY: CLS

O. ISSUE/REVISION Date

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

CLIMATE ZONE	FENSTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED SHGC FENSTRATION		INSULATED WOOD DOOR U-VALUE	CEILING R-VALUE	WOOD FRAMED WALL R-VALUE	FLOOR R-VALUE		SLAB R-VALUE & DEPTH		DUCTWORK OVER OUTSIDE R-VALUE	
4 EXCEPT MARINE	0.32	0.55	0.40	0.60	0.50	49	20 OR 13 CAV. +5	19	OR 13 CAVITY	R-10, 2 FT.	10 CONTINUOUS OR 13 CAVITY	8	6

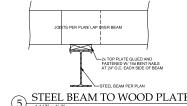
WHERE THE CELLING IS APPLED DIRECTLY TO THE BOTTON OF THE APPLED AND MINIMAL THAT SPACE SHALL BE PROVIDED BETWEEN THE TOP OF THE ROULATEN AND THE SHACHING FOR VERTILATION (RISK.).

NOTE PARTER SEES SPECIFIED OR PASSA WERE THE MANIMAL REQUIRED FOR STRUCTURAL PURPOSES ONLY.

IF PLUS APPLED RESPONDED FOR THE SEES OF THE

П	MAXIMUM INSULATION VALUE	2x6	2x8	2x10	2x12
	1" AIR SPACE (FIBERGLASS)	R-13, 3 1/2*	R-19, 6 1/4"	CONDENSED R-38, 8 1/4"	R-38, 10 1/4"

APA SHEATHING FILLER -1.75"x9.25" LVL (11-7/8" L-JOIST FLOOR) 1.75"x7.25" LVL (9-1/2" L-JOIST FLOOR) * SISTER TO RUN FULL LENGTH OF FLOOR JOIST TO BE ALTERED * SISTER TO RUN FULL LENGTH OF FLOOR JOIST TO BE ALTERED •12D 16* O.C FROM THIS SIDE -12D 16" O.C FROM THIS SIDE -JOIST PER PLAN ZERO ENTRY SHOWER DETAIL

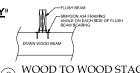


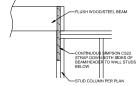
STEEL BEAM TO WOOD PLATE

11/2" = 1'-0"

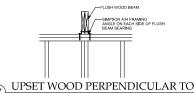
TABLE N1103.6.1 (R403.6.1) WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

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

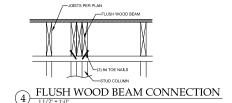


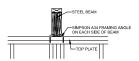






UPSET WOOD PERPENDICULAR TO WALL

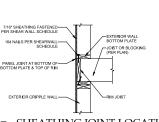


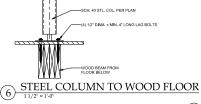


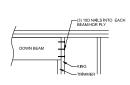
EXTERIOR WALL STEEL BEAM BEARING



DOWN WOOD BEAM PERPENDICULAR







DOWN WOOD BEAM PARALLEL

CHECKED BY: CLS ISSUE/REVISION Date

DATE: 05/31/2023

HD#: 46049

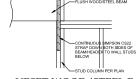
MCGRAW HOMES, INC.
PLAN 2028 - LOT 390 PARK RIDGE
NE PARK SPRINGS TERR., LEE'S SUMMIT, MO

HD ENGINEERING & DESIGN, INC

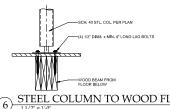
S-4.0

NOTES: 1) BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED WITH AN AIR BARRIER AS PER N.1102.4.1 OF THE 2018 IRC
3) ALD DUTES, AIR HANDLESSE, FLETE BOXES, AND BUILDING CAPITED SIEDED SHALE BE SHALED AS PER N.1102.2 OF THE 2018 IRC **CATHEDRAL / VAULTED CEILING FRAMING AND INSULATION** MINIMUM R-38 INSULATION REQUIRED, SEE DETAIL 14/S-1.2

WOOD TO WOOD STACKED CONNECTION







SHEATHING JOINT LOCATION