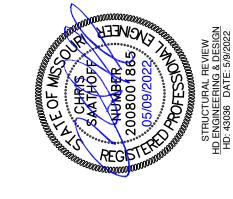
Aspen Homes

Hickory GR Walk-Out Lot 91 HF 2022 SW Harvest Moon Ln. Lee's Summit, MO Our firm has been asked to make structural clarifications to the plans of the house to be questioned items. Below is a list of our recommendations along with the corresponding built at the address listed above. During the permit review process the AHJ has

- •The unfinished basement square footage is incorrect. It should be close to matching the 1st Floor square footage. Should be close to 1383. See revised Sheet S-0.2 with clouded square footage
- •Need to remove the "Optional Back Elevation" from Sheet S-0.1 See revised Sheet S-0.1 with clouded elevation removal.
- •Need to remove the Options plan sheet completely. Sheet S-0.4 See revised Sheets with previous Sheet S-0.4 removed.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted engineering practices. No warranties, either express or implied, are intended or made.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact us.









ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

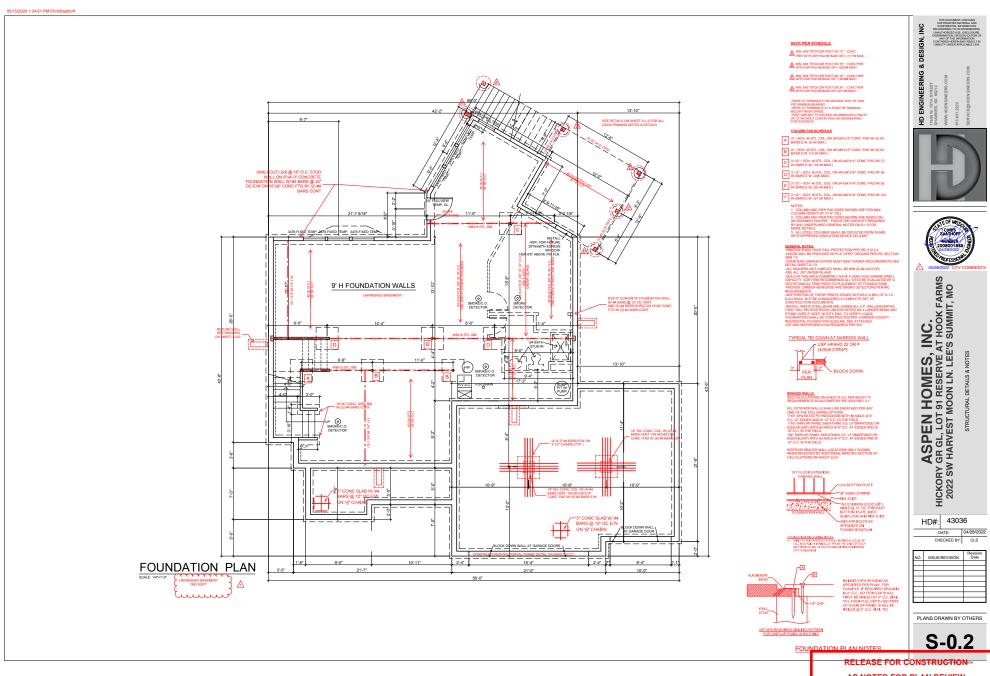
HD#: 43036 CHECKED BY: CLS

PLANS DRAWN BY OTHERS

S-0.1

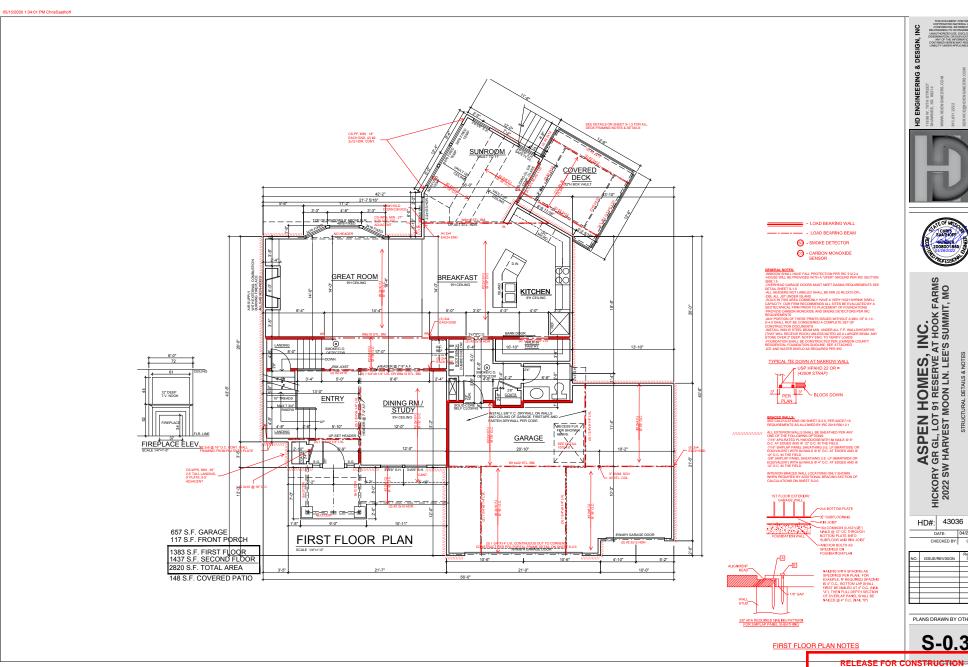
AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

LEE'S SUMMIT, MISSOURI



AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI









ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

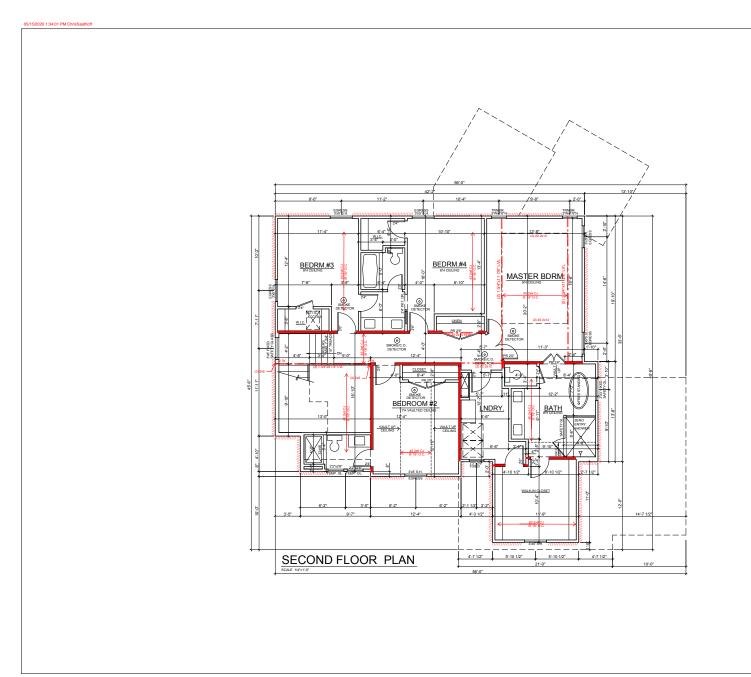
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NO. ISSUE/REVISION

S-0.3

AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

LEE'S SUMMIT, MISSOURI



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 - SMOKE DETECTOR
 - CARBON MONOXIDE SENSOR

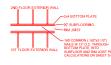
- LOAD BEARING BEAM

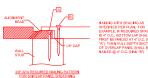
AND SHALL MAY FAIL PROTECTION FRIE CS 12.2 A MODE SHALL EN PROCESS WITH A TENTO FAILOUS POINT RESECTION OF THE CENTRAL PROCESS WITH A TENTO FAIL OF THE CENTRAL PROCESS WITH A TENTO FAIL OF THE CENTRAL PROCESS WITH A PROCESS WITH A

BRACED WALLS:
SEE CALCULATIONS ON SHEET S-2.0, PER ASCE7-11
REQUIREMENTS AS ALLOWED BY IRC 2018 R301.2.1

ALL EXTERIOR WALLS SHALL BE SHEATHED PER ANY ONE OF THE FOLLOWING OFFICIAL WITH BIT WALLS 0 6" OF APA-RATED PL WEDDLOGS WITH BIT WALLS 0 6" OF SHEAP PANELS SHEATHING (IE. I.F. SMARTSIGE C EQUIVALENT) WITH BIT MALLS 0 6" O.C. AT EDGES AND 12" O.C. IN THE ROS SEATHING (IE. I.P. SMARTSIGE CO EQUIVALENT) WITH 95 SHEATHING (IE. I.P. SMARTSIGE CO EQUIVALENT) WITH 95 SHEATHING 16" I.P. SMARTSIGE CO EQUIVALENT) WITH 95 SHALLS 0 4" O.C. AT EDGES AND 12" O.C. IN THE FELD.

INTERIOR BRACED WALL LOCATIONS ONLY SHOWN WHEN REQUIRED BY ADDITIONAL BRACING SECTION CALCULATIONS ON SHEET \$2.20





SECOND FLOOR PLAN NOTES

ASPEN HOMES, INC.

HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS

2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

STRUCTURAL DETAILS & NOTES

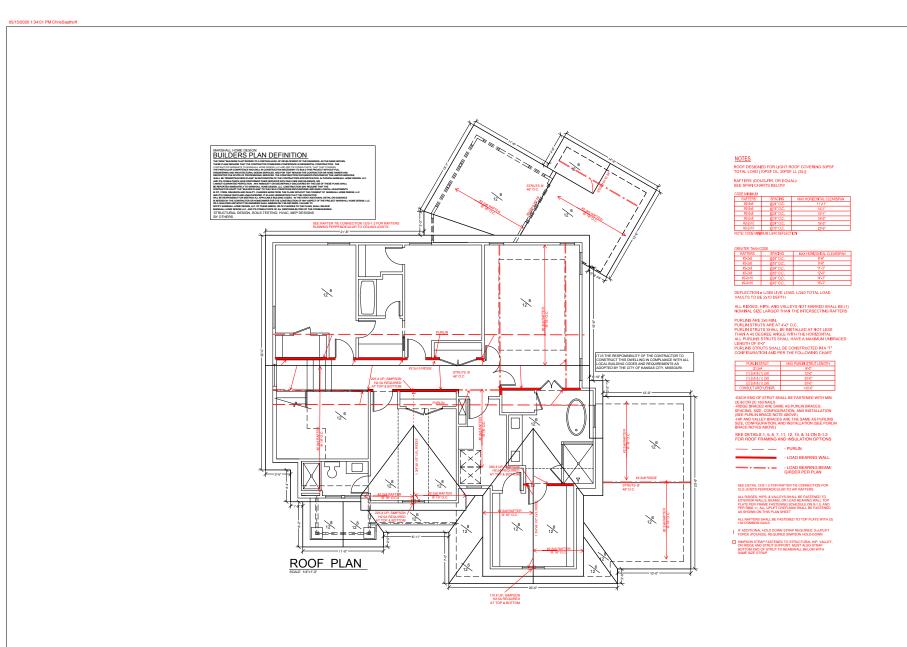
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S-0.4

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI







ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

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PLANS DRAWN BY OTHERS

S-0.5

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

LEE'S SUMMIT, MISSOURI

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

	NAIL GUN		PENETRATION	AL	LOWABLE LO	ADS (IN POUNI	OS)	
FASTENER DESCRIPTION	NAILS/	WIRE GA.	REQUIRED INTO MAIN MEMBER FOR LATERAL	LATERAL S	STRENGTH	WITHDRAWA	L 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								
6d SINKER NAIL	.092	13	1	46		27	23	
6d BOX NAIL								
6d CASING NAIL	.099	12-1/2	1-1/8	61	55	31	24	
7d COOLER NAIL	1							
6d COMMON NAIL								
8d COOLER NAIL	1							
8d SINKER NAIL			1-1/4	79	72	35	28	
8d BOX NAIL	İ							
8d CASING NAIL	İ							
6d RING SHANK NAIL								
6d SCREW SHANK NAIL	İ							
8d RING SHANK NAIL	.120	11	1-3/8	89	81	41	32	
8d SCREW SHANK NAIL	ł							
10d Cooler Nail								
10d Sinker Nail	.128	10-1/2	1-1/2	89	81	36	31	
12d Short								
10d Box Nails								
12d Box Nails	.128	10-1/2	1-1/2	101	93	40	31	
10d Casing Nails	.120	10-1/2	1-1/2		93	40	31	
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	ļ							
		-						
10d Common Nails	ļ							
12d Common Nails		9				46	36	
16d Sinker Nails	.148	9	1-5/8	128	118	40	30	
20d Box Nails	1							
30d Box Nails								
16d Ring Shank Nails	.148	9	1-3/4	128	118	50	40	
16d Screw Shank Nails		-						
16d Common Nails	.162	8	1-3/4	154	141	50	40	
40d Box Nails		_						
20d Ring Shank Nails	.177	7	2-1/8	178	163	59	47	
20d Screw Shank Nails								
20d Sinker Nails	.177	7	2-1/8	178	163	54	43	
20d Common Nails	.148	9	2-1/8	170	166	59	47	
30d Sinker Nails		1 -					I "	

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
ROOF SHEATHING	1x 4 #3 FURRING	1/2" CROWN STAPLES
FLOOR SHEATHING	3/4" T&G YELLOW	14 GA X 1 3/4" STAPLES @ 6" OC EDGES & 12" OC IN FIELD
	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, 19/84" HEAD; 0.098 Ø, 1 1/4" LONG, ANG-RINGED; 5D COOLER NAIL, 0.086 Ø, 1 5/8" LONG, 15/84" HEAD, OR GYP BD NAIL, 0.086 Ø, 1 5/8" LONG, 19/84" 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"	8D BOX OR SINKER NAILS @ 6" OC EDGES & 12" OC IN THE FIELD

FRAME FASTENING SCHEDULE

BUILDING COMPONENT	FASTEN TO	FASTEN WITH
	RIDGE / VALLEY / HIP	TOENAIL W/ (4) 16D, FACENAIL W/ (3) 16D
RAFTERS	PLATE	TOENAIL W/ (3) 10D
INFIERS	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
CEILING JOISTS	WHERE CLG JST RUN PARALLEL TO RAFTERS FAC	ENAIL TO RAFTERS W/ (3) 10D MINIMUM
CEILING JUISTS	LAPS OVER PARTITIONS	FACENAIL W/ (3) 10D
	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	TOENAIL W/ (3) 8D
	BUILT-UP BEAMS, 2" LUMBER LAYERS, FACENAIL OPPOSITE SIDES, (2) @ EACH END PLUS	10D @ 32" OC STAGGERED, TOP & BOTTOM, OPPOSITE SIDES
BEAMS	BUILT-UP BEAMS OF ENGINEERED LUMBER, FACE NAIL OPPOSITE SIDES	(2) ROWS @ 12" OC
	BUILT-UP HEADER, TWO PIECES W/ 1/2* SPACER	16D @16" OC ALONG EDGES
	BUILT-UP HEADER, TWO PIECES, NO 1/2" SPACER	3" x 0.131" NAILS @ 12" OC ALONG EDGES
	BEARING	TOENAIL W/ (2) 18D @ EACH END
	RIM JOIST TO SILL OR TOP PLATE	TOENAIL W/ 8D COMMON OR 10D BOX NAILS @ 6" OC
FLOOR JOISTS	JOIST TO SILL OR GIRDER	TOENAIL W/ (3) 8D
12001100010	JOIST TO RIM JOIST	FACENAIL W/ (3) 16D
	BRIDGING TO JOIST	TOENAIL W/ (2) 8D
	IJOIST TO BEARING PLATE	TOENAIL W/ (2) 8D - ONE INTO EACH SIDE A LEAST 1 1/2" FROM THE END
	RIM JOIST TO I-JOIST	FACENAIL W/ (2) 10D BOX NAILS - ONE INTO EACH FLANGE
	SOLE PLATE TO LSL RIM BOARD	16D BOX NAILS @ 12" OC
	SINGLE JOIST HANGERS*	10D FACENAILS AND TOENAILS
	DOUBLE JOIST HANGERS *	16D FACENAILS AND TOENAILS
	TOP & SOLE PLATE TO STUD	END NAIL W/ (2) 16D
	STUD TO SOLE AND TOP PLATE	TOENAIL W/ (4) 8D
	DOUBLE TOP PLATES	FACENAIL W/ 16D @ 16" OC
	DOUBLE TOP PLATE LAP SPLICE	FACENAIL W/ (8) 16D
	TOP PLATE LAPS & INTERSECTIONS	FACENAIL W/ (2) 16D
	DOUBLE STUDS	FACENAIL W/ 16D @ 24" OC
	BUILT-UP CORNER STUDS	FACENAIL W/ 16D - 2 ROWS @ 24" OC
	STEEL "X" BRACING	FACENAIL W/ (2) 16D IN EACH TOP & BOTTOM PLATE & (1) 8D PER STUD
WALLS	SOLE PLATE TO JOIST OR BLOCKING	FACENAIL W/ 16D @ 16* OC
	SOLE PLATES TO JOIST OR BLOCKING AT BRACED WALL LINES, PERPENDICULAR TO FRAMING	FACENAIL W/ (3) 16D @ 16° OC ALONG BRACED WALL PANEL
	TOP PLATE TO JOIST OR BLOCKING AT BW LINES, PERPENDICULAR TO FRAMING	TOENAIL W/ 8D @ 6" OC ALONG BRACED WALL PANEL
	SOLE PLATES TO JOIST OR BLOCKING AT BW LINES PARALLEL TO FRAMING, BLOCKING @ 16" OC	FACENAIL W/(3) 16D @ 16" OC ALONG BW PANEL & AT EACH BLOCK
	TOP PLATE TO JOIST OR BLOCKING AT BW LINES, PARALLEL TO FRAMING, BLOCKING @ 16" OC	TOENAIL W/ 8D @ 6" OC ALONG BW PANEL & AT EACH BLOCK
	NON-STRUCT. SIDING OVER STRUCT. SHEATHING	(1) 6D BOX NAIL IN EACH STUD
	FIBER CEMENT PLANK SIDING	(1) 6D GALVANIZED NAIL IN EACH STUD
	WINDOW INSTALLATION NAILING	1 3/4" - 2" ROOFING NAILS @ 12" OC MAX.

* JOIST HANGER NOTES: 1) NO JOIST HANGER NAILS ALLOWED FOR TOENALS, 2) NO GUN NAILS OR SCREWS ALLOWED IN CONNECTORS, 3) TOENALS SHALL ALWAYS BE A FULL 3" OR 3.5" NAIL

COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CUP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANCE OF THE BEAM. FOR A BEARNING PAIR FOUR RICKS SHALL BE DRILLED IN THE BOTTOM FLANCE OF THE STEEL BEAM TO MOTON THE HOLD FLATER OF THE FLATE "C'YE'D RICKS SHOULD THEN BE RISTLED. WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE ROLES." THE POST OF WANT BE WELDED TO THE STEEL BEAM IN MASSICIAL SHALL AND SHALL BEAM IN A LITERATURY, BAN WOULD THEED TO BE REPORTED BY AN ANN-CERTIFIED MASSICIAL SHALL BEAM IN A SPECTOR. WITH A SHALL BEAM IN A SPECTOR. WITH A SHALL BEAM IN A SPECTOR. WITH A SHALL BEAM IN A SPECTOR OF WASHER SHALL BEAM IN A SPECTOR OF WASHER SHALL BEAM IN A SPECTOR OF WASHER SHALL BEAM IN A SPECTOR OF WASHER SHALL BEAM IN A SPECTOR OF WASHER SHALL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BE WITH A SHALL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BE WELL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BE WELL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BE WELL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BE WELL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BE WELL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BE WELL BEAM IN A SPECTOR OF WASHER SHALL BE WELL BE

DUCT SEALING METHOD, PER IRC2018 W1103.3.2

N1103.22 (R403.22) SEALING (MANDATORY) DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1801.4.1 OF THIS CODE.

EXCEPTIONS:

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

SEALS

2. WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE. THREE SCREWS OR RIVET'S SHALL BE
2. CONTINUOUSLY WELFED AND LOCKING-THYE LONGITIONIAL DOINTS AND SEAMS IN DUCTS OPERATING AT STATC
PRESSURE. LESS THAN 2 ROUGES OF WATER COLUMN (ORD.) PRESSURE LESS THAN 2 ROUGES OF WATER COLUMN (ORD.) PRESSURE LESS THAN 2 ROUGES OF WATER COLUMN (ORD.)

1. POST CORRESPONDED THE TOTAL LEMANGE SHALL WATER COLUMN (ORD.)

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TAPED OR OTHERWISE SALED DURNO THE TEST.

2. ROUGHNITEST TOTAL ARE LAWAGE SHAL FIRE CEST THAN OR EDUL! TO JOYN IT IS JUMP RESP. (WIFT Joseph OF JOYN) AND THE TOTAL ARE LAWAGE SHAL FRESHED RESPECTATION OF IT INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDIS ON CEST OF INCIDING THE TEST OF THE ARE HANGLES IS NOT INSTITUTED THE TEST OF THE TOTAL ARE LEGETION. THE TOTAL LEAVAGE IS NOT REQUIRED FOR DUCTS AND ARE HANGLESS LOCATED ENTIRELY WITHIN THE BURNON THE TOTAL RAWAGE IS NOT REQUIRED FOR DUCTS AND ARE HANGLESS LOCATED ENTIRELY WITHIN THE BURNON THE TOTAL RAWAGE IS NOT REQUIRED FOR DUCTS AND ARE HANGLESS LOCATED ENTIRELY WITHIN THE BURNON THE TOTAL RAWAGE.

GENERAL NOTES:

MAY SHALL COMEY, WITH THE 4018 NTERRATIONAL RESIDENTIAL CODE. ECC AS ADOPTED BY ALL AND ALL AMENDMENTS A ADOPTED BY THE ALL IF JANY CHANGES

MAY AND SHALL COMEY, WITH THE 4018 NTERRATIONAL RESIDENTIAL CODE. ECC AS ADOPTED BY HE ALL AMENDMENTS A CADOPTED BY THE ALL IF JANY CHANGES

MAKE AND APPROPRIATE MODERACIONS OT THE PLANS.

WHERE DISCREPANCES SIXT RETWEEN THE STANDARD COMMENTS NOTES FOR THE DESION PROFESSIONAL OF THE CODE. THE MEDIT RESTRICTION SHALL ARRY LY

OFFICE OF THE THE CONTRICTION PROFESSIONAL RESIDENTIAL ARRY LY

OVER COUR FRANCE CONSTRUCTION PROFESSIONAL RESIDENTS BY OUR CELLS. CODEAN HAMMING BESIDEN WILL BE HITZED. AS DO LINES REQUESTED BY THE

OWNER, OUR FRANCE CONSTRUCTION PROFESSIONAL RESIDENTS BY OUR CELLS. CODEAN HAMMING BESIDEN WILL BE HITZED. AS DO LINES REQUESTED BY THE

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EXMANDIAN MATTES.

1. THE FROMANTON SESTION SHALL COMPLY WITH THE EMFORCING JURISDICTION RESIDENTIAL FOUNDATION STANDARD IN LIEU OF ENGINEERING REPORT REQUIREMENTS BASED ON ACTUAL STE CONDITION.

FOUNDATION WILLS SHALL BE DAMP REPORTED FER RESIDENTIAL SHALL BE DAMP REPORTED FOR RESIDENTIAL SHALL BE DAMP REPORTED FOR RESIDENTIAL SHALL BE DAMP REPORTED FOR RESIDENTIAL SHALL BE DAMP OF THE SHALL BE COVERED WITH NOT LESS THAN OF OF WASHED GRAVEL OR CRUSHED HOOK. THE DRAIN SHALL DAVIDINT TO THE EXTERIOR BELOW THE FLOOR LEVEL OR TERMINATE IN A MANIMAL 20 CALLON SUMP PT.

OF THE ADMINISTRATION OF THE WASHED SHAVEL ON CRUSHED BOOK. THE BRAN SHALL DAYLIGHT TO THE EXTERIOR BELOW THE FLOOR LEVEL OR TERMINATE IN A FOUNDATION DESCRIPS SHALL BE ASKED ON A MINIMUM DE BERRING CAPACITY OF 1500 PSF.

FOOTNOSS SHALL BE A MINI, OF THE WISE AND TO EEP WITH A BRASS CONTINUOUS, LOCATED A MIN. OF T CLEAR FROM BOTTOM. FOOTNOS SHALL BE A MINIMUM OF 2724725 WITHOUT OF 2724725 W

II. CONCRETE FLOOR SLABS ON GRADE, SHALL BE A MINIMUM 4" THICK OVER A MINIMUM 4" BASE OF SAND, GRAVEL, OR CRUSHED STONE. BASSMENT SLABS SHALL HAVE A MIN 6 MUH POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE FLOOR SLAB AND THE BASE

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

12. RLOOR BLANS SUPPORTED BY FLL CONSISTENCY FRANCE OF SUPPORTED AND ADMINISTRATION OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORTED BY ALL STATEMENT OF SUPPORT OF SUPPORTED BY ALL STATEMENT O

ENCLUSIONE 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 RCR311.7.5.2.1.

FILENDA NOTICE.

CIAJANO IN INICARDOUS LOCATIONS AS DENTIFED IN RC SECTION ROSA SHALL BE OF APPROVED SAFETY CLAZING MATERIALS. CLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPERALE FAMELS ADJACENT TO A DOOR WHERE THE MEAREST VERTIFICAL EDGES IN WITHIN JAY AROJI OF THE DOOR IN A CLOSED POSTION AND WHITE OF WHITE ADDACTION OF THE CORNEL OF THE WHITE OF THE WHI

PRIMARY LOTTES.

A LL LIMBER SIZES ARE FOR DOUGLAS FRAARCH UNLESS OTHERWISE NOTED.

2. ALL HARDERS TO BE A MINIMUM OF 21; 92-2070 SILLESS OTHERWISE NOTED.

3. BLOCK CANTLEVERS, DOOR JAMES, AND OVERSEMAN.

BLOCK CANTLEVERS, DOOR JAMES, AND OVERSEMAN.

5. BLOCK CANTLEVERS, DOOR JAMES, AND OVERSEMAN.

5. BLOCK CANTLEVERS, DOOR JAMES, AND OVERSEMAN.

6. NITERIOR NON-BEARNING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING SHALL BE SOLATED FROM THE FLOOR FRAMING ABOVE.

6. NITERIOR NON-BEARNING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING SHALL BE SOLATED FROM THE FLOOR FRAMING ABOVE.

6. NITERIOR NON-BEARNING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING SHALL BE SOLATED FROM THE FLOOR THAN THE PROVINCE OF A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE PROVIDED AT A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE PROVIDED AT A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE PROVIDED AT A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE PROVIDED AT A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE PROVIDED AT A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE PROVIDED AT A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE PROVIDED AT A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE PROVIDED AT A MAXIMUM OF 4 CENTERS TO BE ADDRESS OF THE JOST SHACES SHALL BE TO BE ADDRESS OF THE JOST SHACES SHALL BE TO BE ADDRESS OF THE JOST SHACES SHALL BE TO BE ADDRESS OF THE JOST SHACES SHALL BE TO BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHACES SHALL BE TO BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHACES SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS OF THE JOST SHALL BE ADDRESS

B. ALL SLAND SLEEPINGS SUPPORTED ON CONCRETE OWNSCHOOL WAS DEADNESS AT A CONCRETE OWN MASS OF A CONCRETE OWN MASS

COMPRETE NOTES: 1. CONCRETE SYNELS AR-ENTRANED (5%-7%) WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS, 3000 PSI FOR MACRIMENT AND FOUNDATION WILLS AND 300 PSI FOR PROPERES, CAPPORTS AND GRANGE FLOOR SLABS.

EMPROMENT CROSSS AND RESCULE NOTES:

1. FROYDER OF ME WINDOW FOR EACH DESCOULD 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 EGNESS WINDOWS SHALL NOT EXCEED 44" ABOVE THE ADDITIONAL CROSS OF PERMANENT STEP.

ADDITION, THE OPENABLE PORTION OF EGNESS WINDOWS SHALL NOT EXCEED 44" ABOVE THE ADDITIONAL CROSS OF PERMANENT STEPS. ALARMS SHALL BE INTERCONACTION OF SUCH AMAINAMENT HE PROVIDED AND ADDITIONAL CROSS OF SUCH AMAINAMENT HE PROVIDED AND ADDITIONAL CROSS OF SUCH AMAINAMENT HE PROVIDED AND ADDITIONAL CROSS OF SUCH AMAINAMENT HE PROVIDED AND ADDITIONAL CROSS OF SUCH AMAINAMENT HE PROVIDED AND ADDITIONAL CROSS OF SUCH AMAINAMENT HE PROVIDED AND ADDITIONAL CROSS OF SUCH AMAINAMENT HE PROVIDED AND ADDITIONAL CROSS OF SUCH ADMINISTRATIONAL CROSS OF SUCH ADMINISTRATION OF THE ADMINISTRATION INFORMATION MINIMAL DEPORT OF MEDICAL REPORT ADDITIONAL CROSS OF SUCH ADMINISTRATION OF THE ADMINISTRA

ABOVE GRADE.

2. DOORS BETWEEN THE CARAGE AND DWELLING - MINIMUM IS 39" SOLID WOOD, SOLID OR HONEY-COMBED CORE STEEL DOOR NOT LESS THAN IS 38" THICK, OR 20 - MINIMUM IS 39" SOLID WOOD, SOLID OR HONEY-COMBED CORE STEEL DOOR NOT LESS THAN IS 38" THICK, OR 20 - MINIMUTE FREE - RATHED EQUIPPED WITH SELF CLOSING DEVICE PER RECORD REQUEST.

3. GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115MPH 3 SECOND GUST LOADING PER DASMA 108 AND ASTME 330-96 PER RECORD ROLL 21.

RECORD FOOL 21 SMALES ESPENATED FROM THE ORIGINAL AND ITS ATTEX AREA BY MANNAL SPY CAYESUM BODA APPLIED TO THE CARREST SECTION OF THE PROPERTY

FOR AT TACHMENT OF COUNTER BAJANCE STSTEM.

8. 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.

VINITIALIDE.

1. ENCLOSED ATTICS SHALL HAVE CROSS VENTIATION FOR EACH SEPARATE SPACE BY VENTIATING OPENINGS PROTECTED AGAINST THE ENTENACE OF DAIN OR SHOW
VENTIATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH WITH 18" TO 14" OPENINGS. THE TOTAL FREE VENTIATING AREA SHALL NOT SE

LESS THAM 1195 OF THE AREA OF SPACE VENTIATIOE, EXCEPT WHERE THE VENTIATIORS AREA LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTIATED THE
REQUIRED AREA MAY BE REDUCED TO 1900.

& DESIGN.

ENGINEERING 皇





ASPEN HOMES, INC. GR GL, LOT 91 RESERVE AT HOOK FARMS HARVEST MOON LN. LEE'S SUMMIT, MO تا 🏲 RY C SW

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

ITEM	DESCRIPTION OF BUILDING ELEMENTS	PASIENER			
	De commo provincio de contrato	ROOF 4-8D BOX (2 1/2" X 0.113")	705 1111		
1	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOE NAIL	4-8D BOX (2 1/2" X 0.113") 3-8D (2 1/2" X 0.113") 3-10D (3"X0.128")	TOE NAIL		
2	CEILING JOISTS TO PLATE, TOE NAIL	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 R802.52	4-10D BOX (3"X 0.128") 3-16D COMMON (3 1/2"X 0.162") 4-3"X 0.131"NAILS	FACE NAIL		
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 20GA. RIDGE STRAP TO RAFTER	4-10D BOX (3" X 0.128") 3-10D COMMON (3" X 0.148") 4-3" X 0.131" NAILS	FACE NAILS EACH RAFTER		
6	RAFTER OR ROOF TRUSS TO PLATE	3-16D BOX NAILS (3 1/2" X0.135") 3-10D COMMON NAILS (3" X 0.148" 4-10D BOX (3" X 0.128" 4-3" X0.131" NAILS	2 TOE NAILS ON ONE SIDE AND 1 TO NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS 1		
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	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 3-16D(3 1/2" X0.135"); OR 2-16D COMMON (3 1/2" X0.162") 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	TOE NAIL		
		WALL			
8	STUD TO STUD (NOT BRACED WALL PANELS)	16D (3 1/2" X 0.162")	24" OC FACE NAIL		
		10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	16" OC FACE NAIL		
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	12" OC FACE NAIL		
	·	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL		
10	BUILT-UP HEADER (2" TO 2" HEADER WITH 1/2" SPACER)	16D COMMON (3 1/2" X 0.162")	16" OC EACH EDGE FACE NAIL		
		16D BOX (3 1/2" X 0.135")	12" OC EACH EDGE FACE NAIL		
11	CONTINUOUS HEADER TO STUD	5-8D BOX (2 1/2" X 0.113") or 4-8D COMMON (2 1/2" X 0.131") 4-10D BOX (3" X 0.128")	TOE NAIL		
12	TOP PLATE TO TOP PLATE	16D COMMON (3 1/2" X 0.162")	16" OC FACE NAIL		
		10D BOX (3" X 0.128") OR 3" X 0.131" NAILS	12" OC FACE NAIL		
13	DOUBLE TOP PLATE SPLICE	8-16D COMMON (3 1/2" X 0.162"); or 12-16D BOX (3 1/2" X 0.135"); or 12-10D BOX (3" X 0.128"); or 12-3" X 0.131" NAILS	FACE NAIL ON EACH SIDE OF END JO (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" OC FACE NAIL		
	(NOT AT BRACED WALL PANELS	16D BOX (3 1/2" X 0.135"); OR 3" X 0.131" NAILS	12" OC FACE NAIL		
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162"); or 4-3" X 0.131" NAILS	3, 2, OR 4 EACH 16" OC FACE NAIL		
16	TOP OR BOTTOM PLATE TO STUD	4-8D BOX (2 1/2" X 0.113"); or 3-16D BOX (3 1/2" X0.135"); or 4-8D COMMON (2 1/2" X0.131"); or 4-10D BOX (3" X0.128"); or 3-3" X 0.131" NAILS	TOE NAIL		
		3-160 BOX (3 1/2" X 0.135"); or 2-160 COMMON (3 1/2" X0.162"); or 3-100 BOX (5" X0.128");or 3-3" X 0.131" NAILS			
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" X 0.128"); or 2-16D COMMON (3 1/2" X0.162"); or 3-3" X 0.131" NAILS	FACE NAIL		
18	1" BRAVE TO EACH STUD AND PLATE	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1 3/4"	FACE NAIL		
19	1" X 6" SHEATHING TO EACH BEARING	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 2-10D BOX (3" X 0.128"); or 2 STAPLES 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL		
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" X0.131") or 3-10D BOX (3" X 0.128"); or 3 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL		
		WIDER THAN 1" X 8" 4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 4 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG			
	I	FLOOR			
21	JOIST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2 1/2" X 0.113"); or 3-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 3-3" X 0.131: NAILS	TOE NAIL		
22	RIM JOIST, BAND JOIST OR BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D BOX (2 1/2" X 0.113") 8D COMMON (2 1/2" X 0.131"); or 10D BOX(3" X0.128") or 3-3" X 0.131" NAILS	4" OC TOE NAIL 6" OC TOE NAIL		
23	1" X 6" SUBFLOOR OR LESS TO EACH JOIST	3-8D BOX (2 1/2" X 0.113"); or 2-8D COMMON (2 1/2" X0.131") or 3-10D BOX (3" X 0.128"); or 2 STAPLES, 1" CROWN, 16GA., 1 3/4" LONG	FACE NAIL		
24	2" SUBFLOOR TO JOIST OR GIRDER	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162")	BLIND AND FACE NAIL		
25	2" PLANKS (PLANK & BEAM-FLOOR AND ROOF)	3-16D BOX (3 1/2" X 0.135"); or 2-16D COMMON (3 1/2" X0.162")	AT EACH BEARING, FACE NAIL		
26	BAND OR RIM JOIST TO JOIST	3-16D COMMON (3 1/2" X 0.162"); or 4-10D BOX (3" X0.128") or 4-3" X 0.131" NAILS; or 4-3" X 14GA. STAPLES, 7/16" CROWN	END NAIL		
27	BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS	20D COMMON (4" X 0.192"); or 10D BOX (3" X 0.128"); or 3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); or	AT TIP AND BOTTOM AND STAGGERS 24° OC FACE NAIL AT TOP AND BOTTO STAGGERED ON OPPOSITE SIDES		
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	AND: 2-20D COMMON (4" X 0.192"); or 3-10D BOX (3" X 0.128 or 3-3" X 0.131" NAILS 4-16D BOX (3 1/2" X 0.135"); or 3-26D COMMON (3 1/2" X 0.135"); or 4-10D BOX (3" X 0.128"); or 4-3" X 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE N		
		2-10D BOX (3" X 0.128"); or 2-8D COMMON (2 1/2" X 0.131" or 2-3" X 0.131") NAILS			

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

		NUMBER AND TYPE OF Abc	SPACING OF FASTENERS			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	FASTENER	EDGES (INCHES)h	INTERMEDIATE < 0 SUPPORTS (INCHES)		
	WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF AND INTERIOR: [SEE TABLE R602.3(3) FOR WOOD STRUCT	WALL SHEATHING TO FRAMING AND PARTICLEBOARD W URAL PANEL EXTERIOR WALL SHEATHING TO WALL FRA				
30	3/8"- 1/2"	6D COMMON (2"X 0.113" NAIL (SUBFLOOR, WALL) + 8D COMMON (2 1/2" X 0.131 NAIL (ROOF); or RSRS-01 (2 3/8" X 0.113" NAIL (ROOF) +	6	12 1		
31	19/32" - 1"	8D COMMON NAIL (2 1/2" X 0.131; or RSRS-01; 2 3/8" X 0.113) NAIL ROOF /	6	12 1		
32	1 1/8" - 1 1/4"	10D COMMON NAIL (3" X 0.148) NAIL; or 8D (2 1/2" X 0.131") DEFORMED NAIL	6	12		
	on	THER WALL SHEATHING ⁹				
33	1/2" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	1 1/2" GALVANIZED ROOF NAIL, 7/16" HEAD DIAMETER, OR 1 1/4" LONG 16GA, STAPLE WITH 7/16" OR 1" CROWN	3	6		
34	25/32" STRUCTURAL CELLULOSE FIBERBOARD SHEATHING	1 3/4" GALVANIZED ROOF NAIL, 7/16" HEAD DIAMETER, OR 1 1/2" LONG 16GA. STAPLE WITH 7/16" OR 1" CROWN	3	6		
35	1/2" GYPSUM SHEATHING ^d	1 1/2" GALVANIZED ROOF NAIL, STAPLE GALVANIZED, 11/2" LONG; 1 1/4" SCREWS, TYPE W or S	7	7		
36	5/8" GYPSUM SHEATHING ^d	1 3/4" GALVANIZED ROOF NAIL; STAPLE GALVANIZED, 1 5/8" LONG; 1 5/8" SCREWS, TYPE W or S	7	7		
	WOOD STRUCTURAL PANELS, CO	MBINATION SUBFLOOR UNDERLAYMENT TO FRAMING				
37	3/4" AND LESS	6D DEFORMED (2" X 0.120") NAIL OR 8D COMMON (2 1/2" X 0.131") NAIL	6	12		
38	7/8" - 1"	8D COMMON (2 1/2" X 0.131") NAIL OR 8D DEFORMED (2 1/2" X 0.120") NAIL	6	12		
39	1 1/8" - 1 1/4"	10D COMMON (3" X 0.148") NAIL OR 8D DEFORMED (2 1/2" X 0.120") NAIL	6	12		

TABLE R 602.3(5) SIZE, HEIGHT, AND SPACING OF WOOD STUDS

	BEARING WALLS					NON-BEARING WALLS	
STUD SIZE (IN)	LATERALLY UNSUPPORTED STUD HEIGHT a (feet) (feet) (feet) (feet) (feet) MAXMUM SPACING WHERE SUPPORTING A ROSF-CELLING ASSEMBLY OR A HABITABLE ATTIC ASSEMBLY, ONLY (inches)		WHERE SUPPORTING A WHERE SUPPORTING WHERE SUPPORTING ONE FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A TWO FLOOR PLUS A SEEMBLY OR A ASSEMBLY ONLY HABITABLE ATTIC HABITABLE ASSEMBLY.		MAXIMUM SPACING WHERE SUPPORTING ONE FLOOR HEIGHT, (inches)	LATERALLY UNSUPPORTED STUD HEIGHT a (feet)	LATERALLY UNSUPPORTED STUD HEIGHT (feet)
2x3 b						10	16
2x4	10	24 c	16 _c		24	14	24
3x4	10	24	24	16	24	14	24
2x5	10	24	24		24	16	24
2x6	10	24	24	16	24	20	24

FOR SE I NICH - 28 dem. I FOOT - 304 dem.

LECTOR HEIGHT ARE DISTANCES BETWEEN POINTS OF LATERAL SUPPORT PLACED PERPENDICULAR. TO THE PLANE OF THE WALL BEARNO WALL SHALL BE SHEATHED ON NOT IESS THAN ONE SIZE OF REPORTS SHALL BE SHEATHED WITH DESTROY OF 100 STATES. THAN ONE SIZE OF REPORTS SHALL BE SHEATHED WITH DESTROY OF 20 SECTION MOST OF 100 SECTION FOR 100 SECTION AND THE STILL REPORTS SHALL BE SHEATHED ON NOT IESS THAN ONE SHEAT SHALL BE SHEATHED SHALL BE SHOULD SHALL BE SHEATHED SHALL BE SHEATHED SHALL BE SHEATHED SHALL BE SHALL BY SHALL BE SHALL BY SHALL BE SHALL BY SHALL BE SHALL BY SHALL BE SHALL BY SHALL BE SHALL BY

MINIMUM MECHANICAL EQUIPMENT EFFICIENCY VALUES BY COMPONENT, PER IRC2018 N1103.6.1

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 HOOD	ANY	2.8 CFM/WATT	ANY
IN-LINE FAN	ANY	2.8 CFM/WATT	ANY
BATHROOM UTILITY FAN	10	1.4 CFM/WATT	<90
BATHROOM UTILITY FAN	90	2.8 CFM/WATT	ANY

CATHEDRAL / VAULTED CEILING FRAMING AND INSULATION

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

WHERE IT IS CREW'S BY APPLIED DIRECTLY TO THE BOTTOM OF THE RAFTERS, A MINIMAM IT ARK SPACE SHALL BE PROVIDED NOTE: HE THE STATE SECOND

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*

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

CLIMATE ZONE	FENSTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED SHGC FENSTRATION	INSULATED METAL DOOR U-VALUE	INSULATED WOOD DOOR U-VALUE		WOOD FRAMED WALL R-VALUE	R-VALUE	WALL R-VALUE	& DEPTH	WALL R-VALUE	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	10 CONTINUOUS OR 13 CAVITY	R-10, 2 FT.	10 CONTINUOUS OR 13 CAVITY	8	6

NOTES: 1) BLUDION THERMAL ENVELOPE IS REQUIRED TO BE SEALED WITH AN ARR BARBER AS FER IN 102.4.1 OF THE DIST IRC
2) RECESSED LIGHTING SAUL BE SEALED OF REVENT LEGACIES CONTINUED SPACE.
3) ALD DUTS. ARR INMENSIONAL BE SEALED TO PREVENT LEGACIES ENVELOPED SPACE
3) ALD DUTS. ARR INMENSIONAL BE SEALED TO PREVENT LEGACIES CONTINUED SPACE.
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5) ARR INVESTIGATION ARRIVED TO PREVENT LEGACIES.
5) ARR INVESTIGATION ARRIVED TO PREVENT LEGACIES.
5) ARR INVESTIGATION A OR HOMEOWNER FOR CONSTRUCTION OF ANY ASPECT OF THE PROJECT, HID ENGINEERING & DESIGN OR A QUALIFIED ENGINEER SHALL IMMEDIATELY BE RETAINED. FAILURE TO NOTIFY US OF THE PLANS SHALL RELIEVE HID ENGINEERING & DESIGN OF ALL RESPONSIBILITIES OF THE CONSEQUENCES.

DESIGN LOADS (PSF)

THE DWELLING SHALL COMPLY WITH THE FOLLOWING LOAD CONDITIONS

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

COLUMN SCHEDULE

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

COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR THAB GARS BENT RADUID THE BOTTOM FLANGE OF THE BEAM. FOR A SHAPE OF THE BEAM FOR A SHAPE OF THE S

ENGINEERED LUMBER

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

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NO.	ISSUE/REVISION	Revision Date

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DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

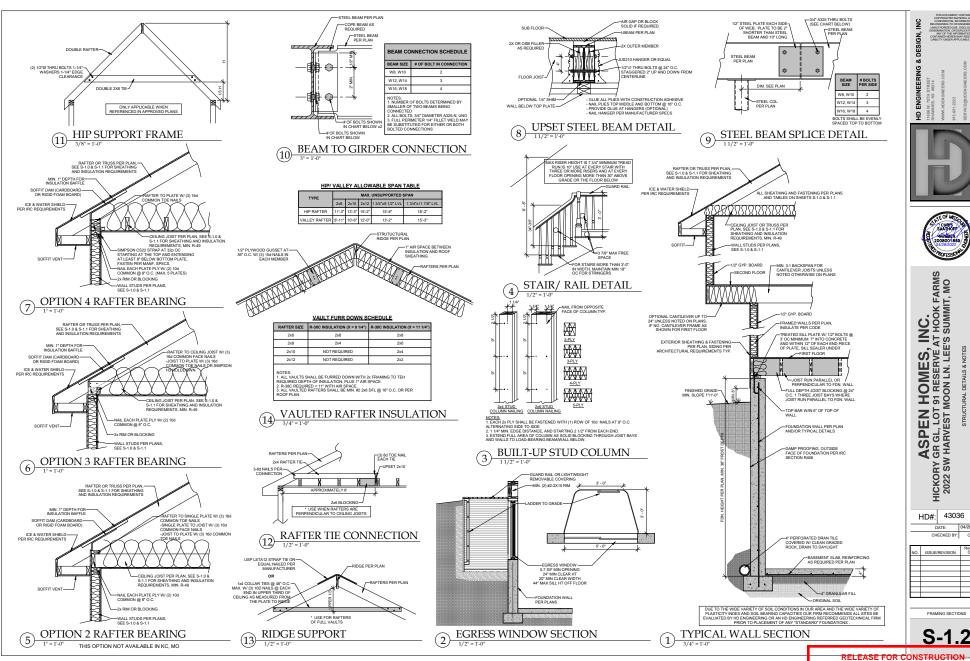
05/16/2022

HD ENGINEERING & DESIGN, INC





ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO



ENGINEERING



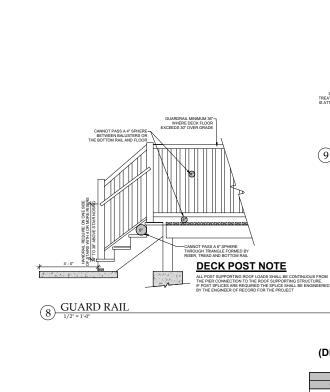


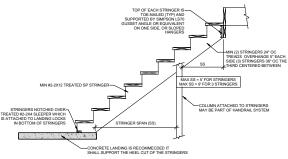
ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
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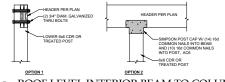
AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

LEE'S SUMMIT, MISSOURI





STAIR STRINGER DETAIL



ROOF LEVEL INTERIOR BEAM TO COLUMN



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 4, 6						
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

littled to be wood structural panel, gypsum board, fiberboard lumber or foam sheathing. Up to 1/2" thinckness of stacked washers itute for you to 1/2" of allowable sheathing thickness where combined with wood structural panel or lumbers sheathing.

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 BOTTOM EDGE ENDS ROW SPACIE								
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 inch = 25 dates:

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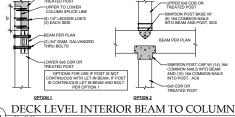
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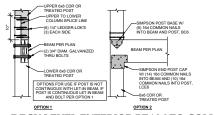
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For St. 1 inch = 25 dates:

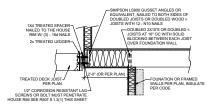
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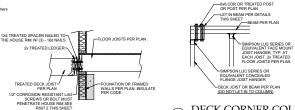




DECK LEVEL EXTERIOR BEAM TO COLUMN



DECK LEDGER TO CANTILEVER



DECK LEDGER ATTACHMENT

HD ENGINEERING & DESIGN,



ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

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S-1.3

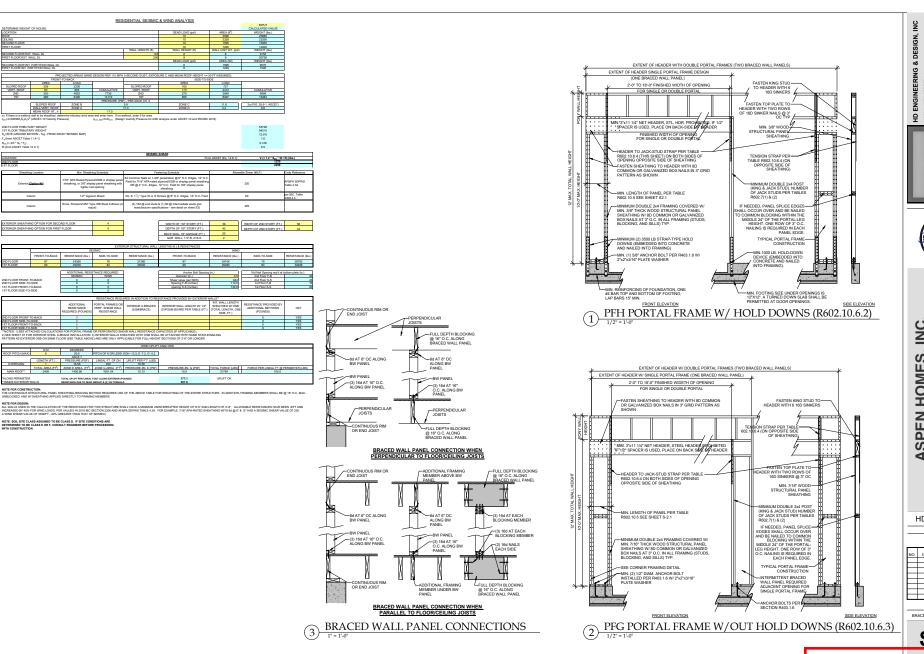
AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

LEE'S SUMMIT, MISSOURI

05/16/2022

DECK CORNER COLUMN

1" = 1'-0" RELEASE FOR CONSTRUCTION ...









ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

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RELEASE FOR CONSTRUCTION ... AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

LEE'S SUMMIT, MISSOURI

8'-0" 4'-7" 9'-0" 5'-2" 9'-0" 10'-0" 5'-9" 10'-0" NP LIB BRACING

TABLE R602.10.5 MINIMUM LENGTH OF BRACED

WALL PANELS

CONTIBUTING LENTH	METHOD (SEE TABLE R602.10.4)		MINIMUM LENGTH (INCHES) 3						
DIVIDING SEPERS PCP IMPS BUMSP				W.	ALL HEIG				
GB			8 FEET	9 FEET	10 FEET	11 FEET	12 FEET	, ,	
SINCE SINC	DWB,	WSP,SFB,PBS,PCP,HPS,BV-WSP	48	48	48	53	58	ACTUAL ^b	
SEC A. B. AND C. UL INATE DESIGN 28 32 34 38 42		GB	48	48	48	53	58		
ABW STATE Company C		LIB	55	62	69	NP	NP	ACTUAL ^b	
SIC D.D. D.LITEMET CESSION 22 32 34 NP NP	4004		28	32	34	38	42	40	
PFH SUPPORTING RODG CNAY 10 10 10 NOTE C NOTE C 48	ABW	SDC D ₁ ,D ₁ ,D ₂ ULTIMATE DESIGN	32	32	34	NP	NP	46	
SPINGLONE STORY AROUF PFG 9F G 24 27 30 NOTEC NOTEC 15.8.ACTUAL* CS-G 24 27 30 NOTEC NOTEC 15.8.ACTUAL* CS-G 24 27 30 NOTEC NOTEC 15.8.ACTUAL* CS-FF 16 18 18 20 NOTEC NOTEC ACTUAL* ACTUAL	051		16	16	16	NOTE C	NOTE C	48	
CS-GG 24 27 30 33 36 ACTUAL* CS-PF 16 18 20 NOTEE NOTEE ACTUAL* ADALCENT CLEAR OPENING HEIGHT (NOWES) SS4 24 27 30 33 36 6 68 26 27 30 33 36 72 27 30 33 36 72 27 30 33 36 74 76 30 29 30 33 36 76 72 27 27 30 33 36 76 76 30 29 30 33 36 76 76 30 29 30 33 36 76 76 30 29 30 33 36 76 76 76 76 76 76 76 76 76 76 76 76 76	PFH	SPTNG. ONE STORY & ROOF	24	24	24	NOTE C	NOTE C	48	
CS-PF 16 18 20 NOTE E NOTE E ACTUAL* ADMCENT CLEAR OPENNO		PFG	24	27	30	NOTE D	NOTE D	1.5 x ACTUAL ^b	
ADMCENT CLEAR OPENING HIGH TWOMES)		CS-G	24	27	30	33	36	ACTUAL ^b	
HEIGHT (NO/HES) 584 24 27 30 33 35 6 68 26 27 30 33 36 72 27 27 30 33 36 76 30 29 30 33 36 80 32 30 30 36 80 32 30 30 33 36 80 32 30 30 30 36 80 33 35 35 30 36 80 32 30 30 30 36 80 36 32 30 33 36 81 30 35 32 33 36 82 30 30 30 30 36 83 35 36 30 33 36 84 35 32 30 30 36 85 30 30 30 30 36 86 40 41 35 35 35 35 36 87 22 40 37 35 35 36 88 30 36 36 36 89 44 41 38 30 36 CS-NSPP 100 - 44 40 38 38 36 104 - 49 43 40 39 1108 - 54 40 43 41 1112 - 5 50 45 43 1116 - 5 55 44 64 43 41 1112 - 5 55 44 64 44 1120 - 5 55 54 48 45 1120 - 6 55 51 1124 - 7 55 56 51 1126 - 7 66 55 1136 - 7 66 55 1136 - 7 66 56		CS-PF	16	18	20	NOTE E	NOTE E	ACTUAL ^b	
CS-WSP. CS-WSP. 100 110 1112									
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CS-WSP. 08	Ī	80	32	30	30	33	36		
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SSSFB 100 - 44 40 39 38 100 100 100 100 100 100 100 100 100 10	ı	92	43	37	35	35	36		
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108	CS-SFB	100		44	40	38	38	ACTORE	
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132 68 58 138 62 140 68		124				56	51		
136 62 140 66		128				61	54		
140 66		132				66	58		
	Ī	136					62		
144 72	i	140					66		
	Ī	144					72		

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

ETTENDS RAPACED WALL METHOD: (SEE ON THIS SHEET)

WOOD STRUCTURE. PAREL SHEATHING WITH A THOMSES NOT LESS THAN 38° WITH MINIMALM SPAN

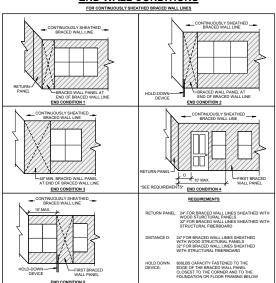
PAREL DOS SHEATHING THOMSES SHEATHING WITH WASHING SHEATHING
OR

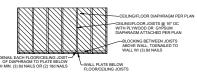
LIB METHOD:
134 WOOD FASTENED W/ (3) 8d COMMON NAILS OR SIMPSON / USP 16 GA. TYPE WB (OR EQUIVALENT) STL. X
BRACE(S) @ 46" TO 80" ANGLES, MAXIMUM 16" O.C. STUDS FASTENED PER MANUF. SPECS.

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

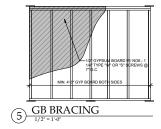
				TENSION STRAP CAPACITY REQUIRED (POUNDS) ^a			
MINIMUM WALL STUD FRAMING	MAX. PONY	MAX. TOTAL WALL HEIGHT (FEET)	MAX. OPENING	ULTIMATE DESIGN WIND SPEED V (MPH)			
NOMINAL SIZE & GRADE	WALL HEIGHT (FEET)		WIDTH (FEET)	115	115		
				EXPOSURE B	EXPOSURE C		
	0	10	18	1,000	1,000		
			9	1,000	1,000		
	1	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	12	9	1,500	3,175		
			16	3,375	DR		
			18	3,975	DR		
	4	12	9	2,750	DR		
	4	12	12	3,775	DR		
			9	1,000	2,025		
	2	12	16	2,150	3,675		
2X6 STUD GRADE			18	2,550	DR		
	4					9	1,750
		12	16	2,400	DR		
			18	3,800	DR		

END WALL CONDITIONS

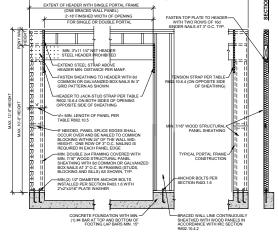




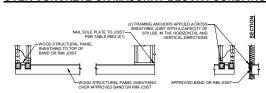
DIAPHRAGM CONNECTION TO INTERIOR WALL



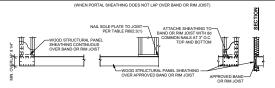
FRONT ELEVATION EXTENT OF HEADER WITH DOUBLE PORTAL FRAMES



OVER CONCRETE OR MASONRY BLOCK FOUNDATION



OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION



OVER RAISED WOOD FLOOR - OVERLAP OPTION

CS-PF 1/2" = 1'-0

HD ENGINEERING & DESIGN,







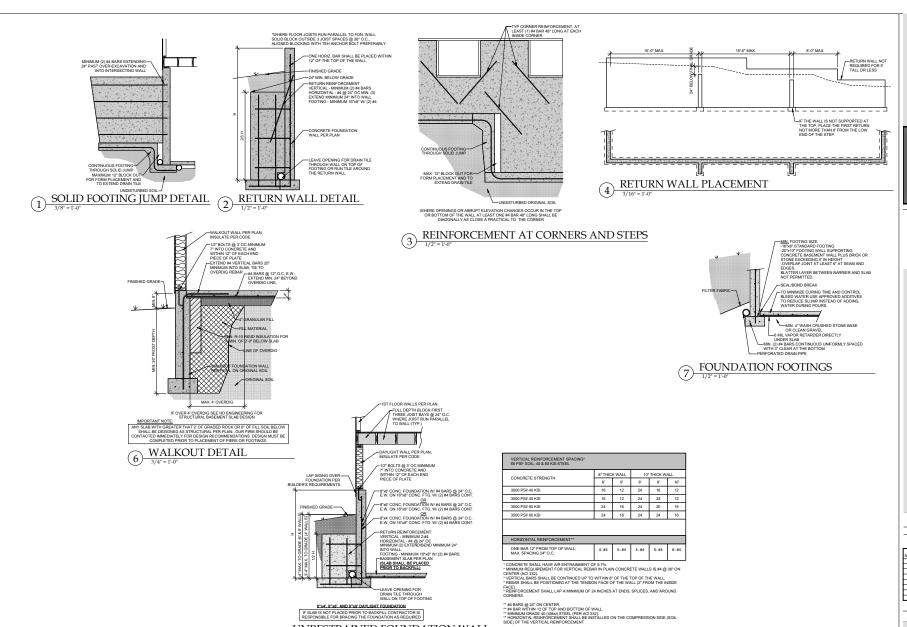
ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

HD#: 43036 CHECKED BY: CLS



RELEASE FOR CONSTRUCTION... AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

LEE'S SUMMIT, MISSOURI



UNRESTRAINED FOUNDATION WALL

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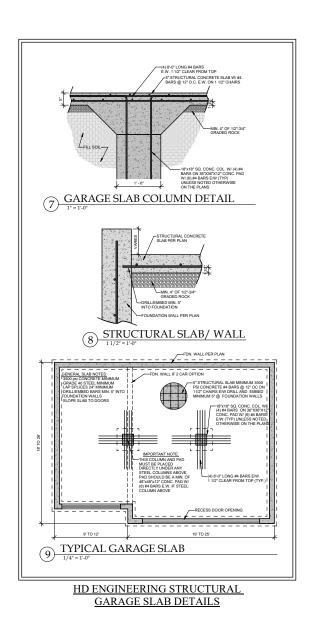
S-3.0

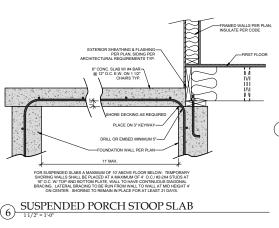
RELEASE FOR CONSTRUCTION ...

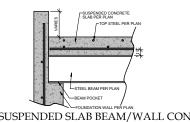
DETAILS PROVIDED ARE DERIVED FROM JOHNSON COUNTY RESIDENTIAL FOUNDATION GUIDELINE

> AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

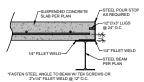
LEE'S SUMMIT, MISSOURI 05/16/2022



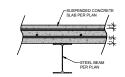




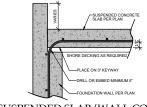
SUSPENDED SLAB BEAM/WALL CONNECTION 11/2" = 1'-0"



SUSPENDED SLAB POUR STOP

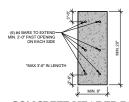


3 SUSPENDED SLAB/STEEL BEAM CROSS SECTION



SUSPENDED SLAB/WALL CONNECTION

11/2" = 1'-0"



CONCRETE HEADER DETAIL

O.C. JEZUS STUDS AT 16"O C. WITGE AND BOTTOM PLATE. WALL TO HAVE COMTINUOUS DIAGONAL BRACKING. LI ANY CAST IN PLACE STABLE FORMED MORE THAN 11 ABOVE THE FLOOR BELOW SHALL HAVE A STEE SPECIFIC SH FIRM SHOULD BE CONSULTED FOR THIS DESIGN ONCE FOUNDATION WALLS ARE IN PLACE TO EVALUATE THE BE NOTED THAT PALIBLE TO HAVE MA ADEQUATE SHORNED DESIGN AN RESULT IN FORM COURSE. MINIOR CAST.

HD ENGINEERING & DESIGN, INC





ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

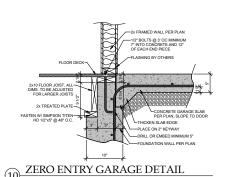
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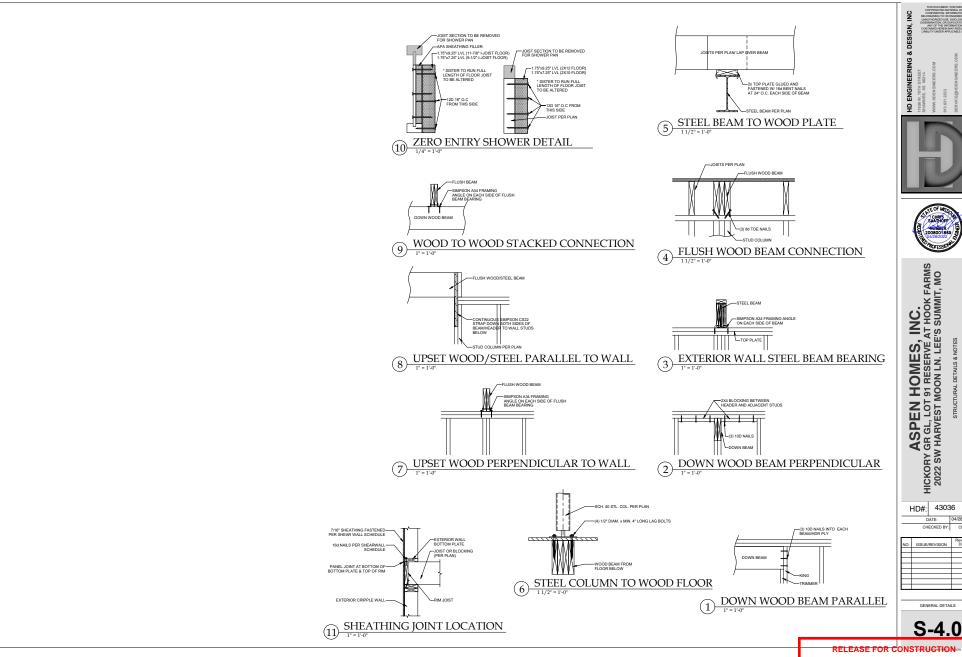
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RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI









ASPEN HOMES, INC.
HICKORY GR GL, LOT 91 RESERVE AT HOOK FARMS
2022 SW HARVEST MOON LN. LEE'S SUMMIT, MO

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S-4.0

AS NOTED FOR PLAN REVIEW **DEVELOPMENT SERVICES**

LEE'S SUMMIT, MISSOURI