RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/28/2021 10:44:05





NOTE:

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

ELEVATIONS:

GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS. WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED.

IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE.

WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY WITH IRC R703.2. WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING

DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.



OSAGE #16	FRONT & REAR ELEVATION NOTES 1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE.	CPG DBA
	1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP	clover
	OF FOUNDATION. 2.61 5/4"X8" TRIM. 1 1/2" ARCH ON GARAGE DOOR TRIM UNLESS NOTED OTHERWISE ON ELEVATION.	G
	3.11 PANEL LAP SIDING WITH 5/4X6 TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.	hive
	3.13 PANEL SIDING WITH 3/4X4 TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6"	120 SE 30TH ST. LEE'S SUMMIT, MO 64082 816-246-6700
	ABOVE GRADE. 3.15 BOARD AND BATTEN.	COPYRIGHT 2020
	3.17 MANUFACTURED STONE VENEER.3.18 CAST STONE CAP3.38 6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT	THIS DRAWING HAS BEEN PREPARED BY CLOVER AND HIVE, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS, SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERDALL LAVOLT FORM AND CONTROLITION OF
	TOP. 3.62 CEDAR SHUTTERS. ALL SHUTTERS TO BE 18" WIDE	OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC. D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR
ECK	USING (3) 2X6 BOARDS. TRIM TO BE INSTALLED AROUND WINDOW PRIOR TO SHUTTER INSTALLATION. 3.66 DECORATIVE FALSE LOUVERED VENT WITH 1X6 BOARD	BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY PROHIBITED.
	 BOARD. 4.11 MINIMUM ROOFING COMPOSITION – 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR 	
	AS REQUIRED BY CODE. 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.	NIT A: 3744 SW MARYVILLE PLAC NIT B: 3746 SW MARYVILLE PLAC
		10 ¹⁵ H
20NT FLEV/ATION 🦳		FARMHOUSE BARMHOUSE OSAGE #16
$\frac{\Box \Box \Box \Box \Box \Box \Box \Box \Box \Box \Box}{SCALE: 1/4'' = 1'-0''}$		
	GENERAL NOTES	
	DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.	
	WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.	
	SHEET INDEX	PROFESSIONAL SEAL:
	A1. FRONT AND REAR ELEVATION	PROFESSIONAL SEAL:
	A2. LEFT AND RIGHT ELEVATION A3. FOUNDATION LEVEL PLAN	BRADUEY HUXOL NUMBER PE-2011000903
	A4. MAIN LEVEL PLAN	$\frac{1}{1000000} = \frac{1}{1000000}$
	A5. UPPER LEVEL PLAN A6. ROOF PLAN	EVERSTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS
	FINISHED PER UNIT TOTAL	ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS.
	MAIN FLOOR 758 1516 UPPER LEVEL 1109 2218	EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901
	FINISHED STAIRS TO LOWER LEVEL00TOTAL18673734	
	UNFINISHED 686 1372	DRAWN BY:
	PATIO 120 240 GARAGE 423 846	C.HOOPER
RADE	ENGINEER TRUSS I-JOIST	ISSUE DATE:
	EVERSTEAD BFS N/A	06.30.21 MARK UP SET: 08.02.21
	REVISIONS	SHEET NUMBER:
	NO. DATE DESCRIPTION	
REAR ELEVATION (1)		
$\frac{\text{EAR ELEVAIIUN}}{\text{SCALE: } 1/4' = 1'-0'} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$		



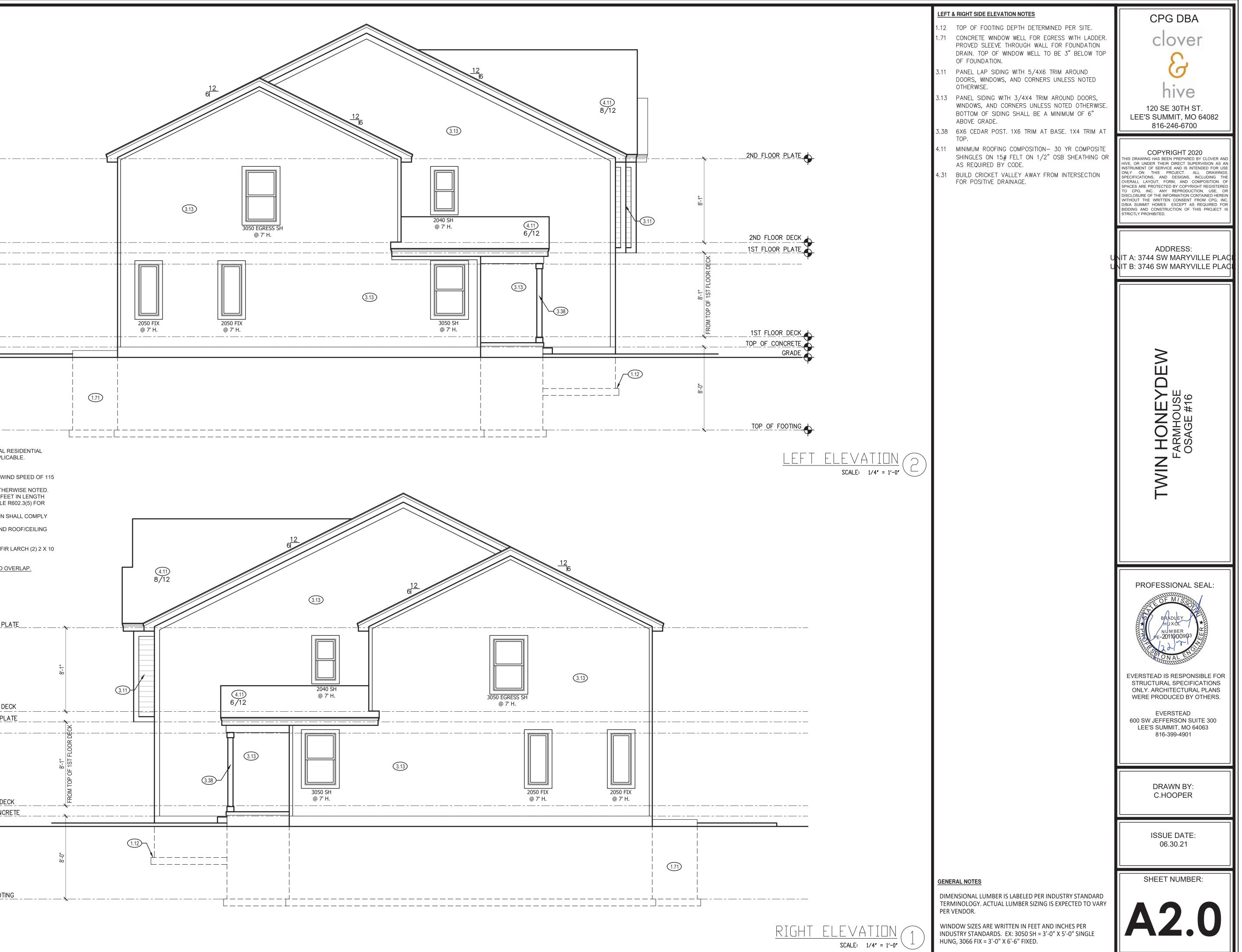
ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE. WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY WITH IRC R703.2. WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

ELEVATIONS: GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS. WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED. IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

NOTE:



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

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NOTE:

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

FOUNDATION NOTES:

ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".

SOIL BEARING CAPACITY SHALL BE 1500 PSF. COMPRESSIVE STRENGTH OF CONCRETE F'C COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2. REQUIRED AIR ENTRAINMENT SHALL BE 5-7%. ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. DAMPPRROFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR WATERPROOFING SHALL BE A MINIMUM 6-MIL THICK MOISTURE BARRIER OVER POROUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS SHALL BE A MINIMUM 6".

FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC SECTION R406. FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH WITH IRC SECTION R405. BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION R310.1

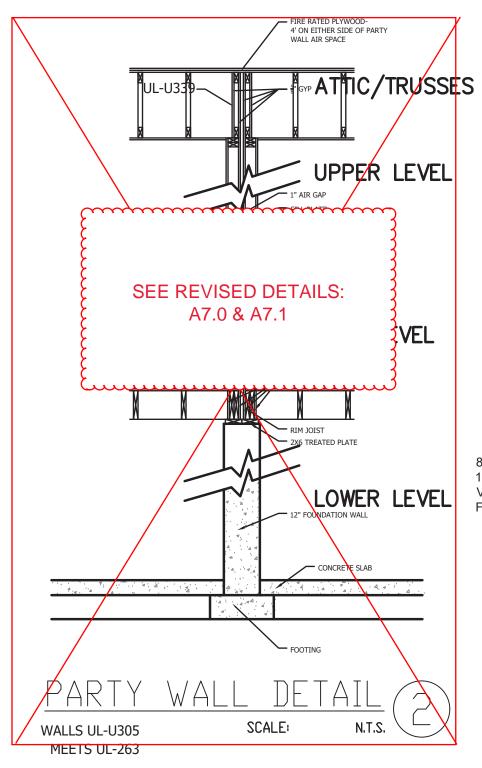
ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB. ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 6' O.C. AND BE EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS SUFFICIENT STRENGTH OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY BACKFILL.

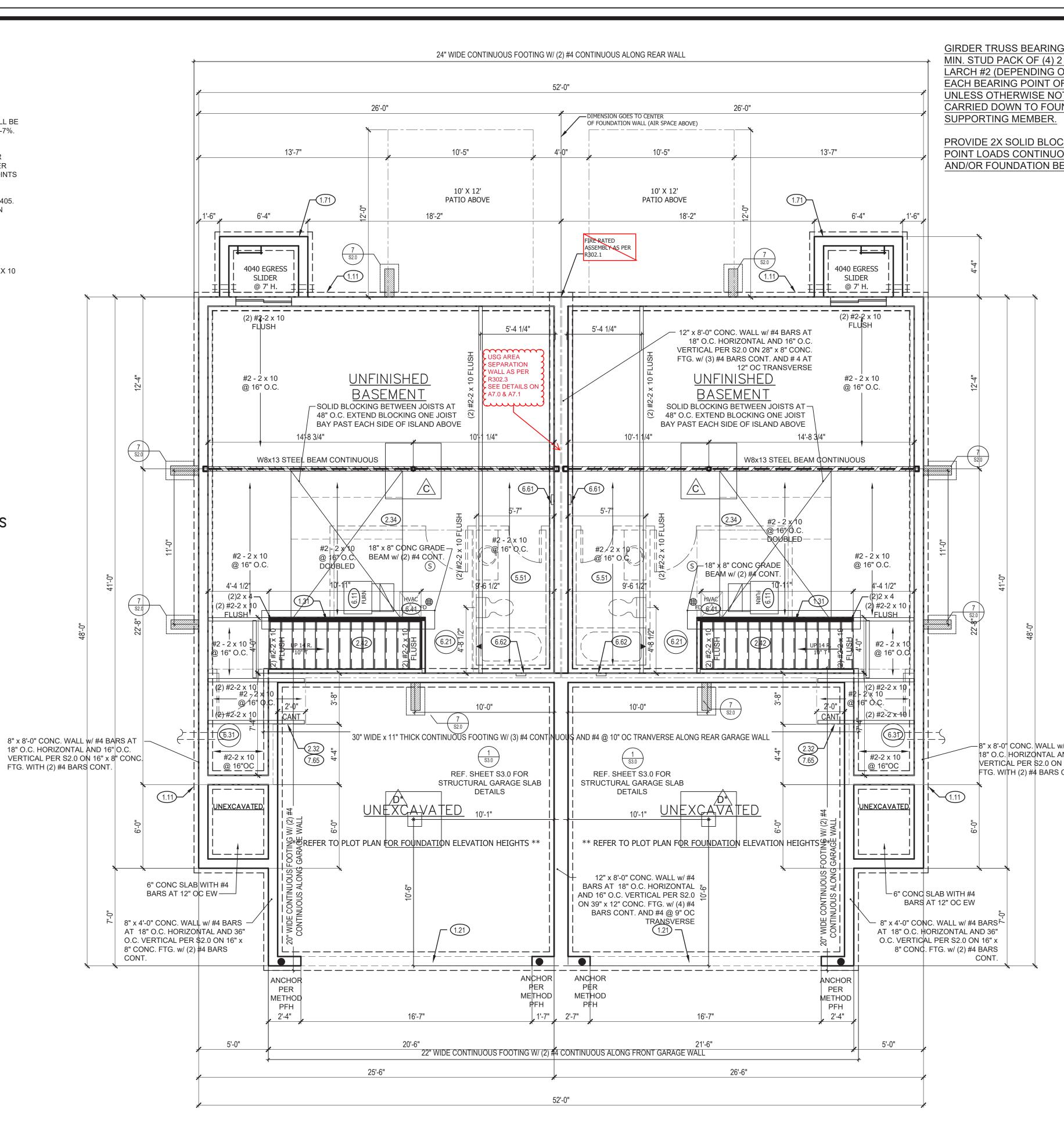
IF BASEMENT SLAB ELEVATION IS ABOVE GRADE CONSULT ENGINEER.

STEEL BEAM FLANGE WIDTH: W8 x 13- 4"



IS	SOLATE	D FO	DTINGS AND CE	ILUMN PADS
SYM	PIER PAD SIZE	DEPTH	MINIMUM REINFORCEMENT GR 60 KSI STEEL	ADE SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI
\land	30″×30″	1'-0"	(5) #4 BAR E.W	3" DIAMETER
B	36 " ×36 "	1'-0"	(6) #4 BAR E.W	3" DIAMETER
\land	42"×42"	1′-2″	(7) #4 BAR E.W	3" DIAMETER
	48″×48″	1'-4"	(8) #4 BAR E.W	3" DIAMETER
Æ	54 " ×54 "	1'-4"	(9) #4 BAR E.W.	3.5" DIAMETER
F	60"×60"	1′-6″	(10) #4 BAR E.W.	3.5" DIAMETER
ANY	SIZE F	JOTING	WITH AN (*)	ND COLUMN NEEDED
IS	OLATE	D FOI	ITINGS AND CE	ILUMN PADS
SYM	PIER DIAMETE		H	CEMENT GRADE 4
\land	12″	3'-()" (4) VER	TICAL #4
\mathbb{A}	16″	3'-0)" (4) VER	TICAL #4
\triangle	18″	3'-0)" (4) VER	TICAL #4
k	24″	3'-0)" (4) VER	TICAL #4
\wedge	28″	3'-0)" (4) VER	TICAL #4

DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.



	FOUNDATION PLAN NOTES	
IG: 2 x 4 OR (4) 2 x 6 DOUGLAS FIR ON WALL THICKNESS) BELOW	1.11CONTINUOUS CONCRETE FOOTING1.21RECESS TOP OF FOUNDATION WALL1.312X4 STUD WALL WITH TREATED SILL PLATE	CPG DBA
OF EACH GIRDER TRUSS, OTED. STUD PACKS SHALL BE UNDATION OR LOAD	1.71 CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVED SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.	S
CKING SUPPORT BELOW ALL OUS TO BEARING STRUCTURE BELOW.	 2.32 INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING 2.34 PROVIDE ADDITIONAL BRACING FOR ISLAND ABOVE. 2.42 FIRE RATED SHEETROCK UNDER STAIRS 	120 SE 30TH ST. LEE'S SUMMIT, MO 64082 816-246-6700
	 5.51 DRAIN LINE ONLY FOR FUTURE USE. LOCATION TO BE MARKED WITH REBAR AND CUT FLUSH TO FLOOR FINISH. 6.11 DIRECT FURNACE. FUEL BURNING APPLIANCES SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION 	COPYRIGHT 2020 THIS DRAWING HAS BEEN PREPARED BY CLOVER AND HIVE, OR UNDER THEIR DIRECT SUPERVISION AS AN
	 AIR. 6.21 HOT WATER HEATER WITH THERMAL EXPANSION CONTROL DEVICE 6.31 SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI 	INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS, SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG, INC.
	PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.6.41 HVAC CHASE ABOVE6.61 200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE.	D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY PROHIBITED.
		ADDRESS: NIT A: 3744 SW MARYVILLE PLAC NIT B: 3746 SW MARYVILLE PLAC
		\geq
		۲ ۵ ۵ ۳
		AGE #1
		TWIN HONEYDEW FARMHOUSE OSAGE #16
w/ #4 BARS AT AND 16" O.C.		
N 16" x 8" CONC. S CONT.		PROFESSIONAL SEAL:
		BRADLEY HUXOL NUMBER PE-2011000903
		EVERSTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS
		WERE PRODUCED BY OTHERS. EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063
		816-399-4901
	<u>GENERAL NOTES</u>	DRAWN BY: C.HOOPER
	BACK WATER VALVES REQUIRED ON ALL BASEMENT PLUMBING FIXTURES. PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION. ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR MASONRY	ISSUE DATE: 06.30.21
	SHALL BE OF DECAY-RESISTANT MATERIALS. DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.	SHEET NUMBER:
	ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" O.C. SMOKE AND CARBON MONOXIDE DETECTORS SHOW ON PLANS	A3.0
	ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.	

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ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

DETAILS AND NOTES: BASEMENT EGRESS WINDOWS ARE TO COMPLY WITH IRC R310.2.

WINDOW FALL PROTECTION REQUIREMENTS TO COMPLY WITH SECTION R612.2. STAIRS SHALL COMPLY WITH IRC R311.7. THE MAXIMUM

RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7-3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 10" (IRC 2018 R311.7.5.1).

SELF CLOSING DEVICES ARE REQUIRED FOR GARAGE TO DWELLING SEPARATION DOORS. STEEL COLUMNS WILL BE A MINIMUM OF SCHEDULE 40.

ENERGY REQUIREMENTS SHALL CONFORM TO THE IRC

CHAPTER 11. SECURITY SHALL CONFORM TO IRC R326/KCBRC. AN ACCESSIBLE CONNECTION POINT WILL BE PROVIDED TO A 20 FOOT CONCRETE ENCASED ELECTRODE (FOOTING REBAR) FOR THE ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND). CARBON MONOXIDE DETECTORS WILL BE PROVIDED IN ACCORDANCE WITH IRC SECTION R315. THE BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED(2018 IRC SECTION N1102.4.1 AND TABLE N1102.4.1.1). DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING

CAVITIES USED AS DUCTS SHALL BE SEALED (2018 IRC

FLOOR PLANS:

SECTION N1103.2.2)

LEDGERS(FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507. ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN. A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED.

ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS THERWISE NOTED).

ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2x6 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

> LVL'S SHALL BE: BOISE CASCADE

VERSA-LAM 3100 FB

GLU-LAMS SHALL BE: DF 24F-V4 - WESTERN

PROVIDE FULL BEARING FOR OPTION SELECTED

STEEL BEAM FLANGE WIDTH: W12X14 - 3.97" W8X28 - 6.54"

GIRDER TRUSS BEARING: MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER.

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.



55" - 8' TALL WALL HEIGHT

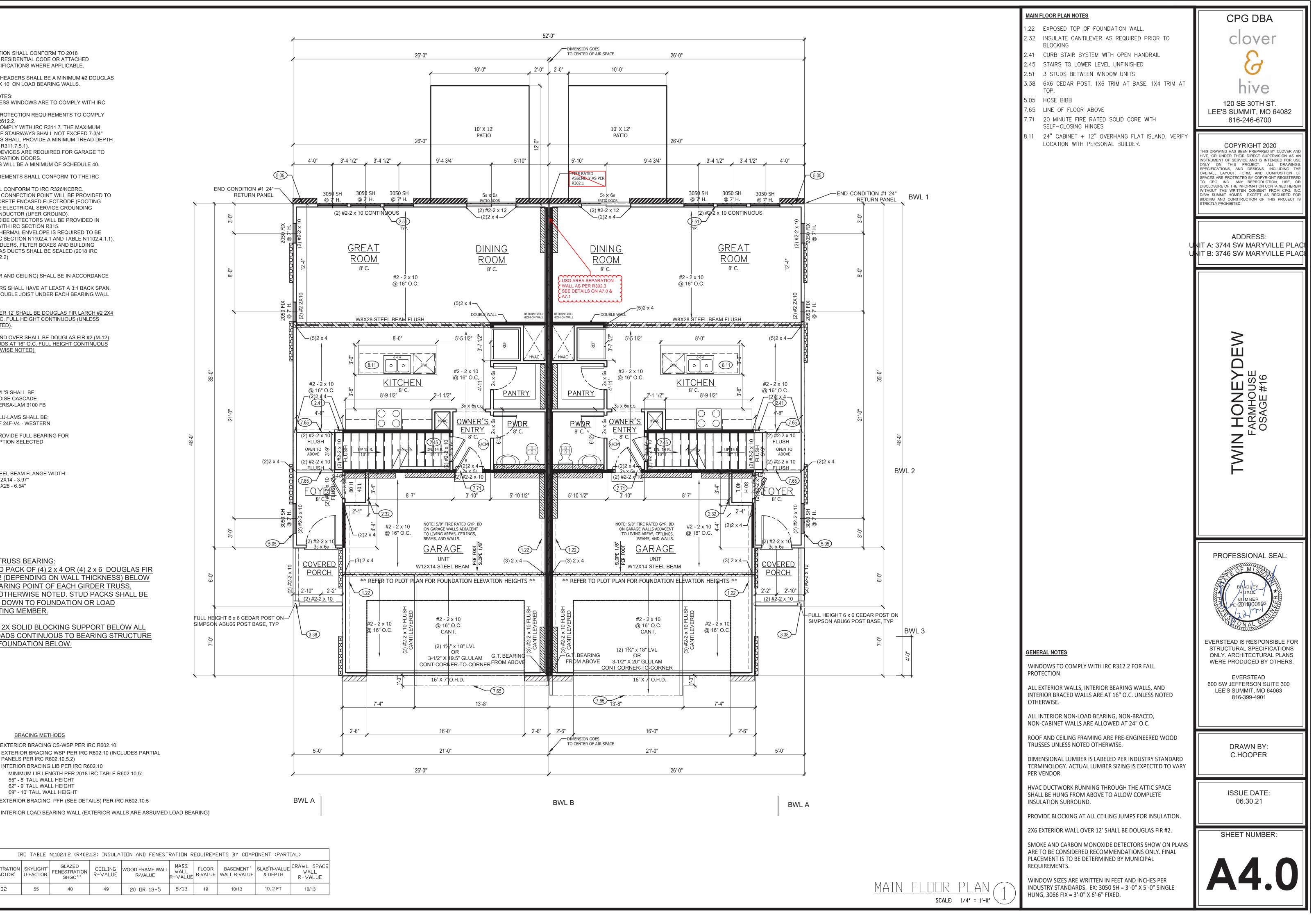
EXTERIOR BRACING CS-WSP PER IRC R602.10 EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL PANELS PER IRC R602.10.5.2) INTERIOR BRACING LIB PER IRC R602.10 MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5:

> 62" - 9' TALL WALL HEIGHT 69" - 10' TALL WALL HEIGHT

EXTERIOR BRACING PFH (SEE DETAILS) PER IRC R602.10.5



CLIMATE ZONE	FENESTRATION U-FACTOR [®]	SKYLIGHT [♭] U-FACTOR	GLAZED FENESTRATION SHGC ^{b, e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE		FLOOR R-VALUE	BASEMENT [°] WALL R-VALUE	SLAB R-VALUE	CRAWL SPAC⊾ WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 DR 13+5	8/13	19	10/13	10, 2 FT	10/13



AS NOTED ON PLANS REVIEW DEVELO LEE'S **/IT. MISSOUR** 021<u>10:</u>44:07

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DETAILS AND NOTES: BASEMENT EGRESS WINDOWS ARE TO COMPLY WITH IRC

R310.2. WINDOW FALL PROTECTION REQUIREMENTS TO COMPLY WITH SECTION R612.2. STAIRS SHALL COMPLY WITH IRC R311.7. THE MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7-3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 10" (IRC 2018 R311.7.5.1).

SELF CLOSING DEVICES ARE REQUIRED FOR GARAGE TO DWELLING SEPARATION DOORS.

STEEL COLUMNS WILL BE A MINIMUM OF SCHEDULE 40. ENERGY REQUIREMENTS SHALL CONFORM TO THE IRC

CHAPTER 11.

SECURITY SHALL CONFORM TO IRC R326/KCBRC AN ACCESSIBLE CONNECTION POINT WILL BE PROVIDED TO A 20 FOOT CONCRETE ENCASED ELECTRODE (FOOTING

REBAR) FOR THE ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND).

CARBON MONOXIDE DETECTORS WILL BE PROVIDED IN

ACCORDANCE WITH IRC SECTION R315. THE BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED(2018 IRC SECTION N1102.4.1 AND TABLE N1102.4.1.1).

DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING

CAVITIES USED AS DUCTS SHALL BE SEALED (2018 IRC SECTION N1103.2.2)

FLOOR PLANS:

LEDGERS(FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507. ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN.

A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED.

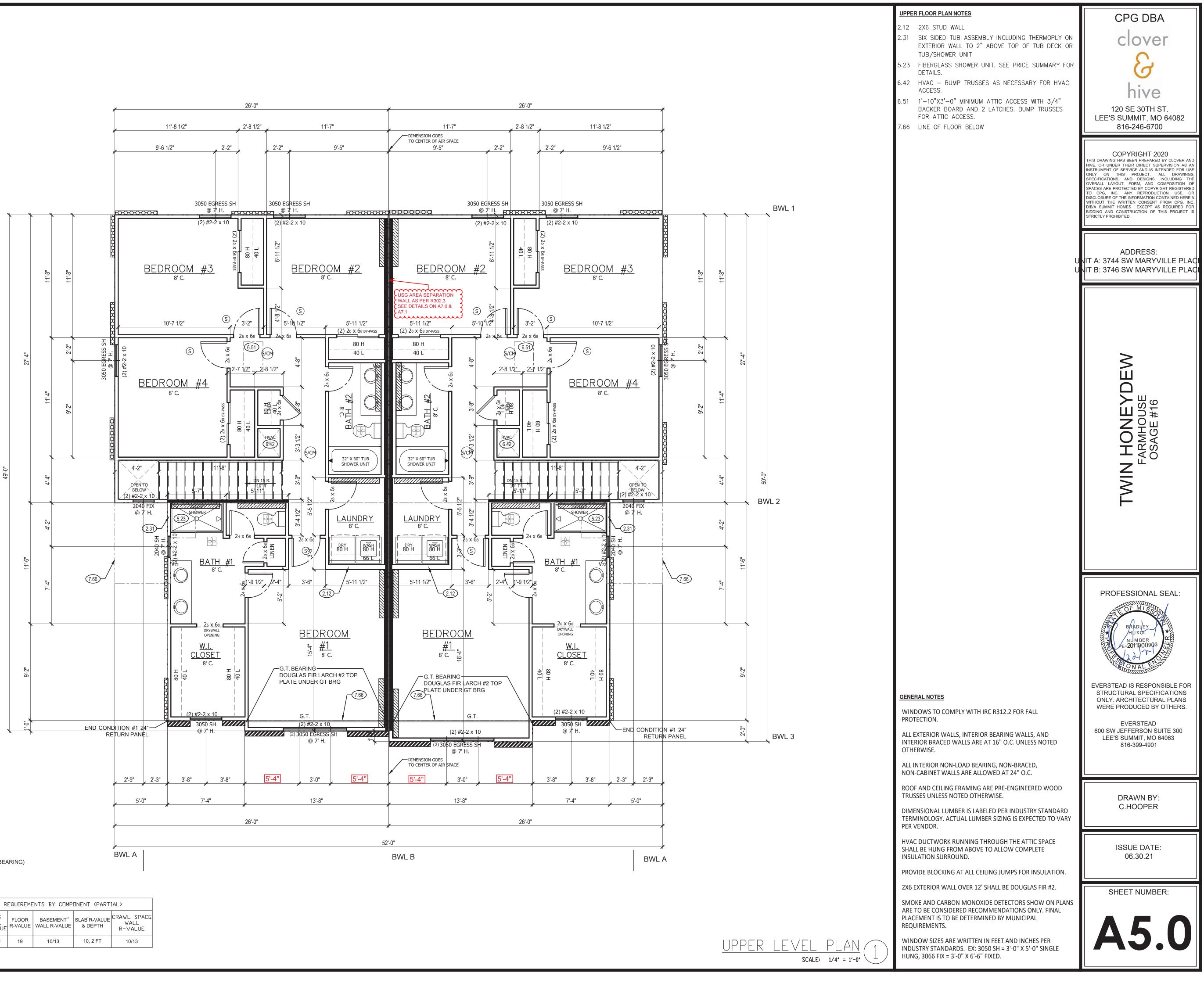
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ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2x6 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

GIRDER TRUSS BEARING:

MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER.

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.





BRACING METHODS

EXTERIOR BRACING CS-WSP PER IRC R602.10 EXTERIOR BRACING WSP PER IRC R602.10 (INCLUDES PARTIAL

PANELS PER IRC R602.10.5.2) INTERIOR BRACING LIB PER IRC R602.10

MINIMUM LIB LENGTH PER 2018 IRC TABLE R602.10.5:

55" - 8' TALL WALL HEIGHT 62" - 9' TALL WALL HEIGHT

69" - 10' TALL WALL HEIGHT

EXTERIOR BRACING PFH (SEE DETAILS) PER IRC R602.10.5

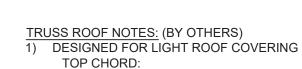
INTERIOR LOAD BEARING WALL (EXTERIOR WALLS ARE ASSUMED LOAD BEARING)

IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)

	1.									
CLIMATE ZONE	FENESTRATION U-FACTOR [®]	SKYLIGHT ^⁵ U-FACTOR	GLAZED FENESTRATION SHGC ^{b, e}	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUÉ	FLOOR R-VALUE	BASEMENT [°] WALL R-VALUE	SLAB [®] R-VALUE & DEPTH	CRAWL SPAC⊾ WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 OR 13+5	8/13	19	10/13	10, 2 FT	10/13

DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/28/2021 10:44:07

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LIVE LOAD/SNOW LOAD (PSF): 25 DEAD LOAD (PSF): 10

BOTTOM CHORD: DEAD LOAD(PSF):

- DEAD LOAD(PSF): 10 2) ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS
- SHALL BE MIN. (2) #2 2 x 10 UNLESS OTHERWISE NOTED.
 CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS
- SHOWN AS NON-LOAD BEARING ON APPROVED PRINTS.
- 4) ROOF IS ENGINEERED TO COMPLY WITH IRC 802
- = ROOF TRUSS FRAMING DIRECTION "G.T." = GIRDER TRUSS LOCATION
- = INTERIOR LOAD BEARING WALL

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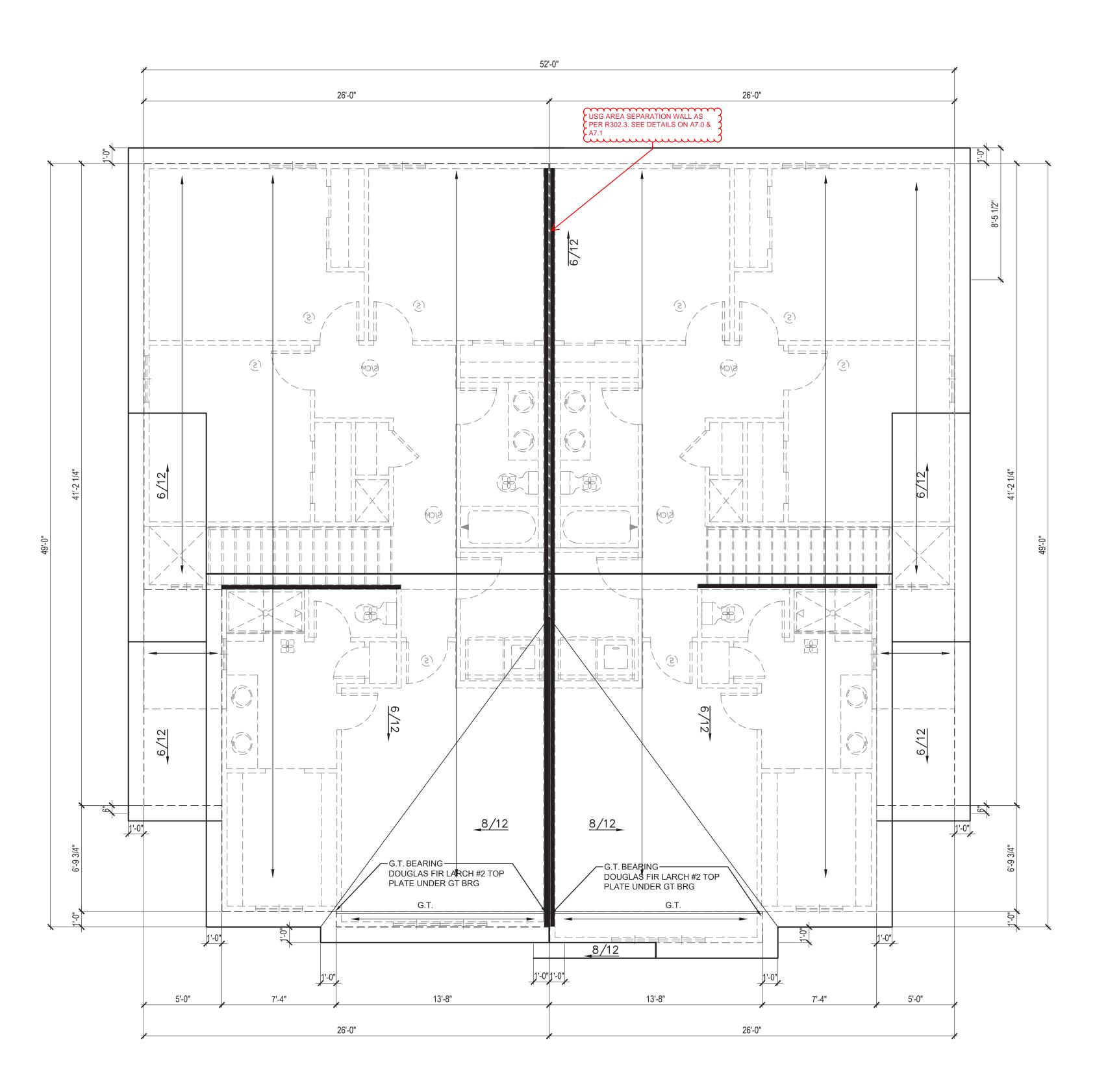
ROOF: ROOF IS DESIGNED FOR 20 PSF SNOW LOAD.

WOOD TRUSSES SHALL BE IN ACCORDANCE WITH IRC SECTION R802.10. CEILING JOIST OR RAFTER TIE CONNECTIONS BETWEEN RAFTERS, RIDGE BEAM, REQUIRED COLLAR TIES OR RIDGE STRAPS SHALL COMPLY WITH DETAILS AND IRC SECTION R802, R802.3, R802.3.1, R802.11.

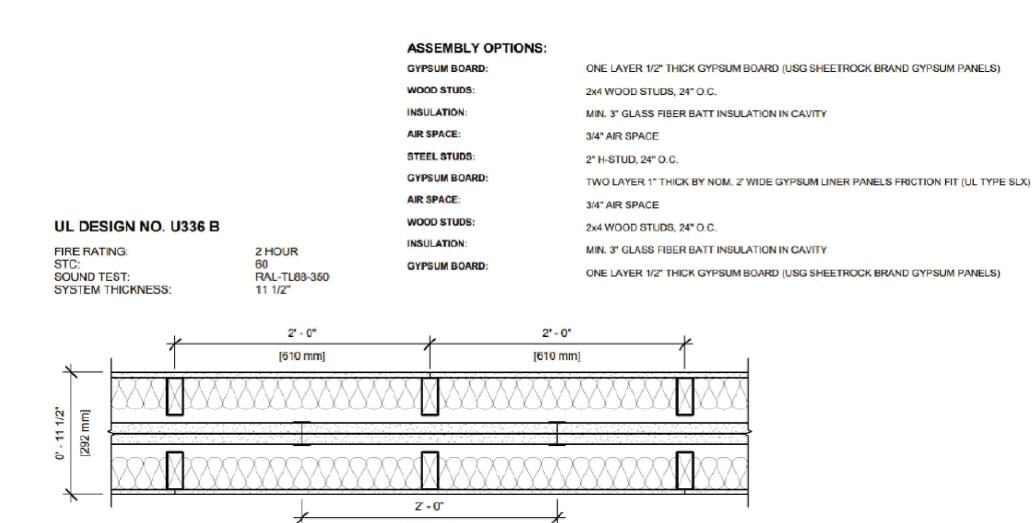
GIRDER TRUSS BEARING:

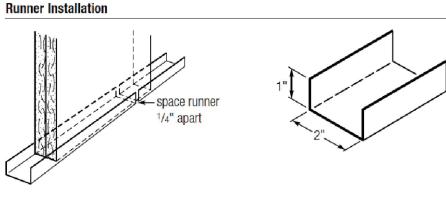
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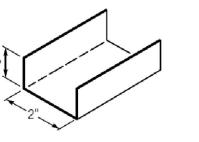
PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.



ROOF PLAN NOTES CPG DBA 4.11 MINIMUM ROOFING COMPOSITION- 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR clover AS REQUIRED BY CODE. 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE. hive 120 SE 30TH ST. LEE'S SUMMIT, MO 64082 816-246-6700 COPYRIGHT 2020 THIS DRAWING HAS BEEN PREPARED BY CLOVER AND HIVE, OR UNDER THEIR DIRECT SUPERVISION AS AN INSTRUMENT OF SERVICE AND IS INTENDED FOR USE ONLY ON THIS PROJECT. ALL DRAWINGS SPECIFICATIONS, AND DESIGNS, INCLUDING THE OVERALL LAYOUT, FORM, AND COMPOSITION OF SPACES ARE PROTECTED BY COPYRIGHT REGISTERED TO CPG, INC. ANY REPRODUCTION, USE, OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT FROM CPG. INC D/B/A SUMMIT HOMES EXCEPT AS REQUIRED FOR BIDDING AND CONSTRUCTION OF THIS PROJECT IS STRICTLY PROHIBITED. ADDRESS: NIT A: 3744 SW MARYVILLE PLACNIT B: 3746 SW MARYVILLE PLAC HONEYDEW FARMHOUSE OSAGE #16 NIN **PROFESSIONAL SEAL** UMBER EVERSTEAD IS RESPONSIBLE FOR STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL PLANS WERE PRODUCED BY OTHERS. EVERSTEAD 600 SW JEFFERSON SUITE 300 LEE'S SUMMIT, MO 64063 816-399-4901 GENERAL NOTES ROOF AND CEILING FRAMING ARE PRE-ENGINEERED ROOF TRUSSES. ASPHALT SHINGLES MIN 2/12. FLASH ALL PENETRATIONS AND DRAWN BY: INTERSECTIONS. C.HOOPER VENT EACH ENCLOSED ATTIC SPACE. NET AREA OPENING = 1/50TH OF VENTED AREA OR 1/300TH IF 580% OF VENTING NEAR TOP. ISSUE DATE: BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR 06.30.21 POSITIVE DRAINAGE. SEE FRAMING SPECIFICATIONS FOR DETAILS. DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY SHEET NUMBER: PER VENDOR. HVAC DUCTWORK RUNNING THROUGH ATTIC SHALL BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND. PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION. PLAN RDDFPROVIDE FOAM INSULATION AT EXTERIOR WHERE MAIN LEVEL ROOF LINE MEETS UPPER LEVEL WALLS. SCALE: 1/4" = 1'-0"

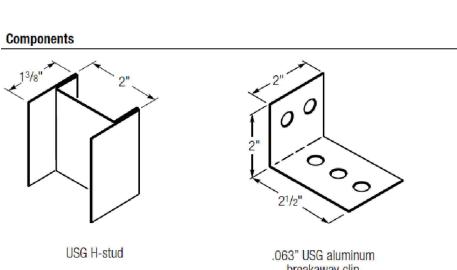


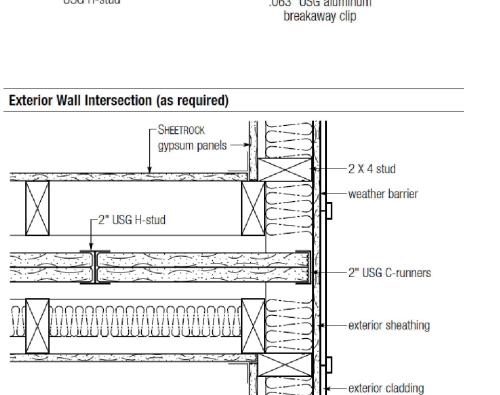


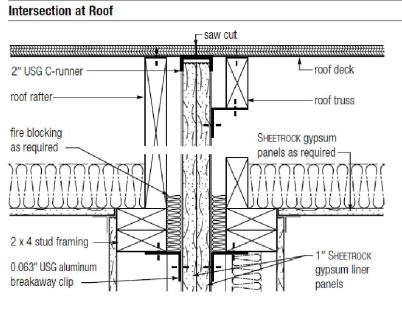


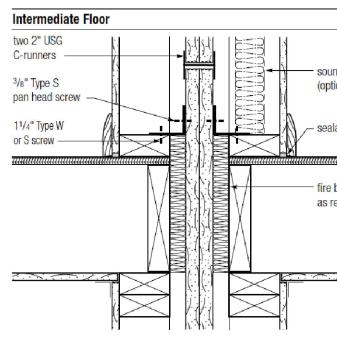
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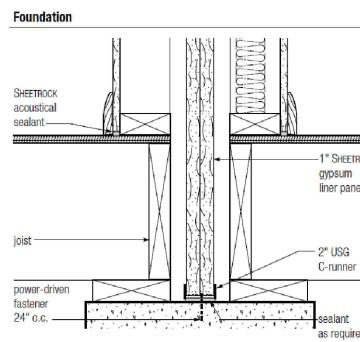
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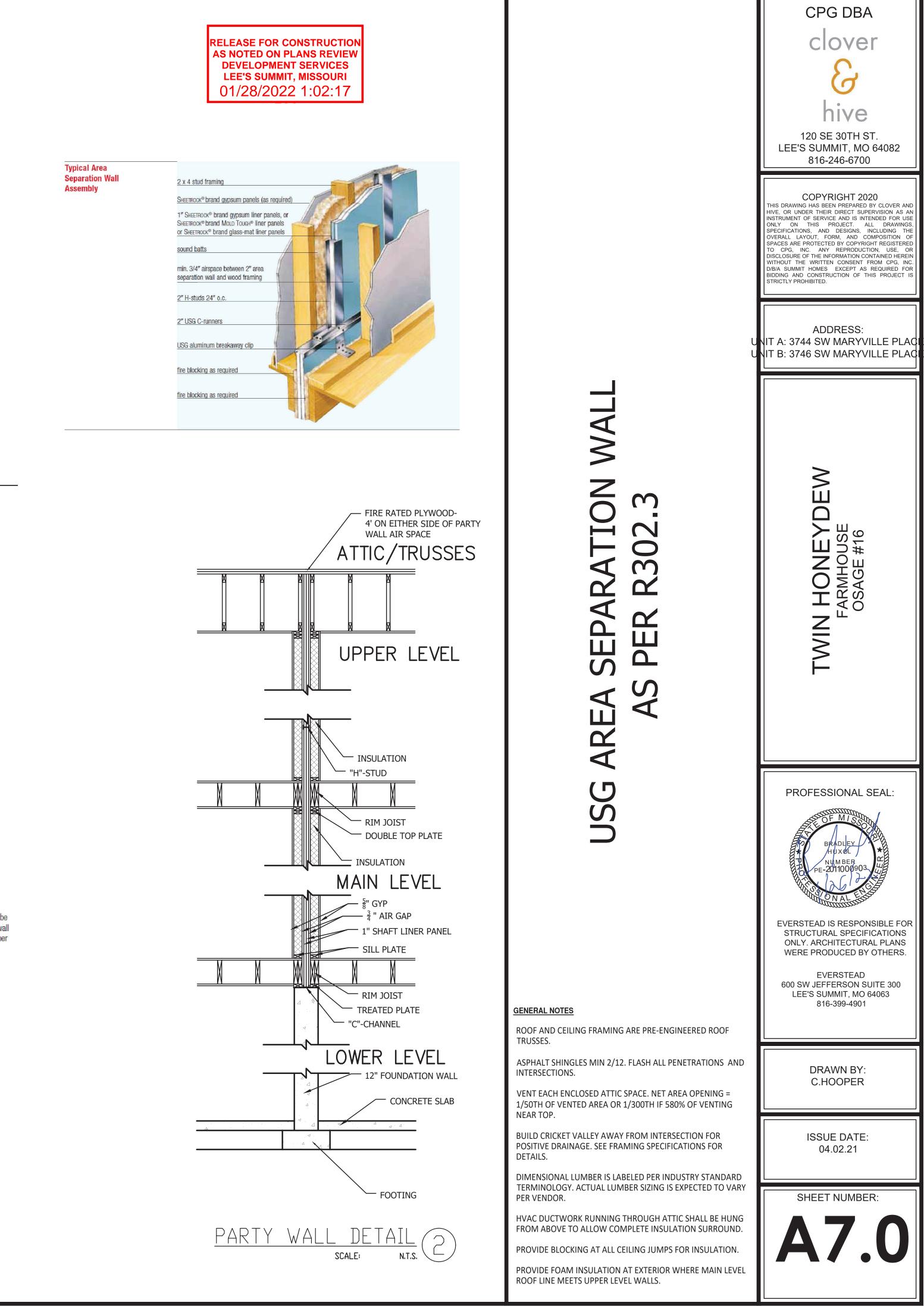










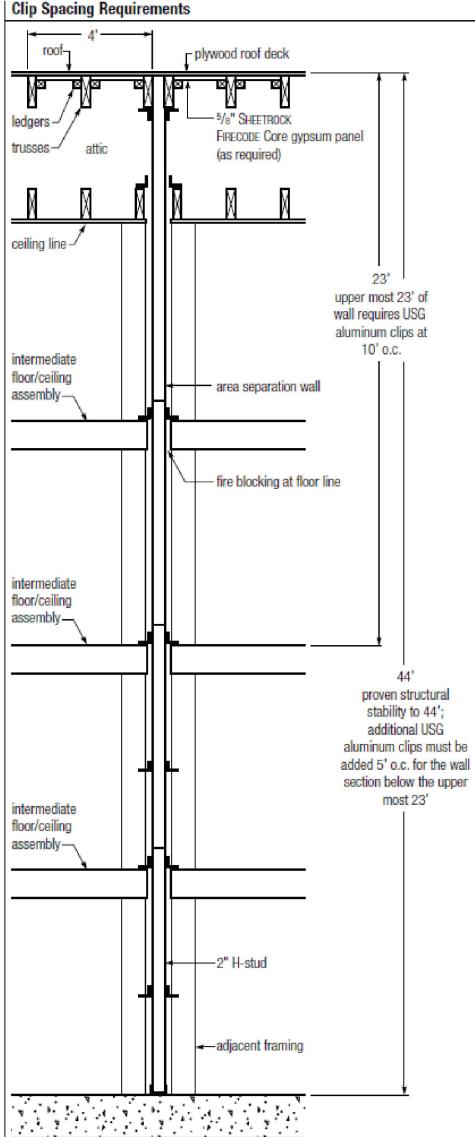


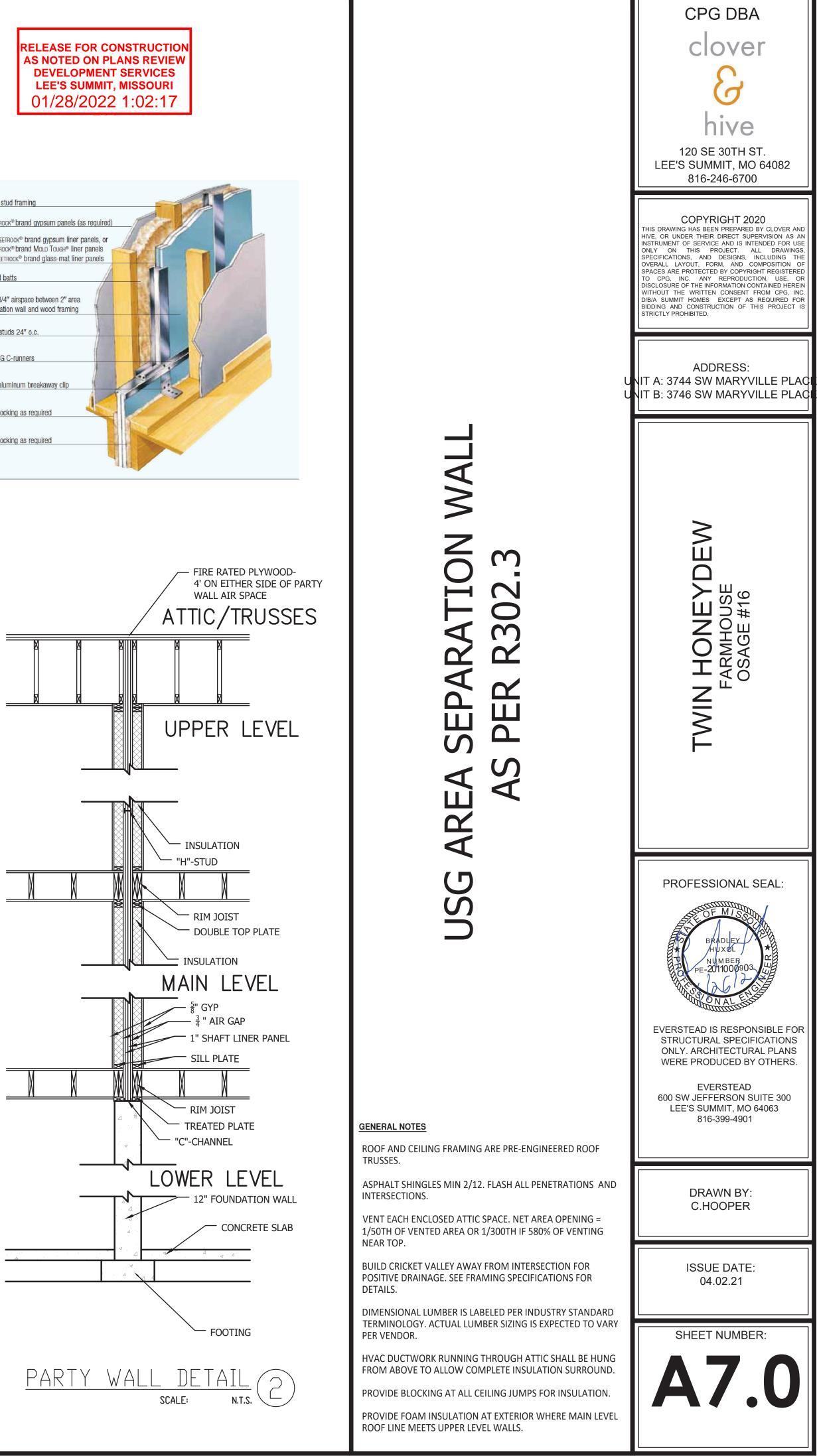
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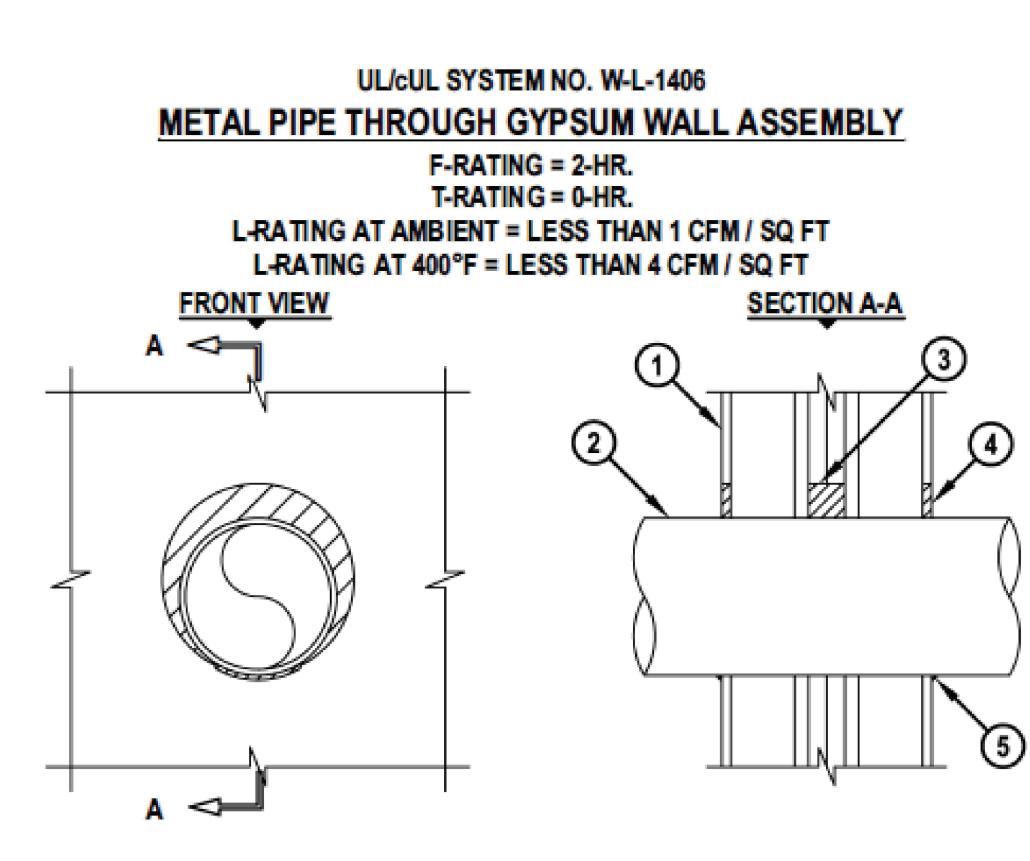
fire blocking as required

-1" SHEETROCK gypsum liner panels

s require





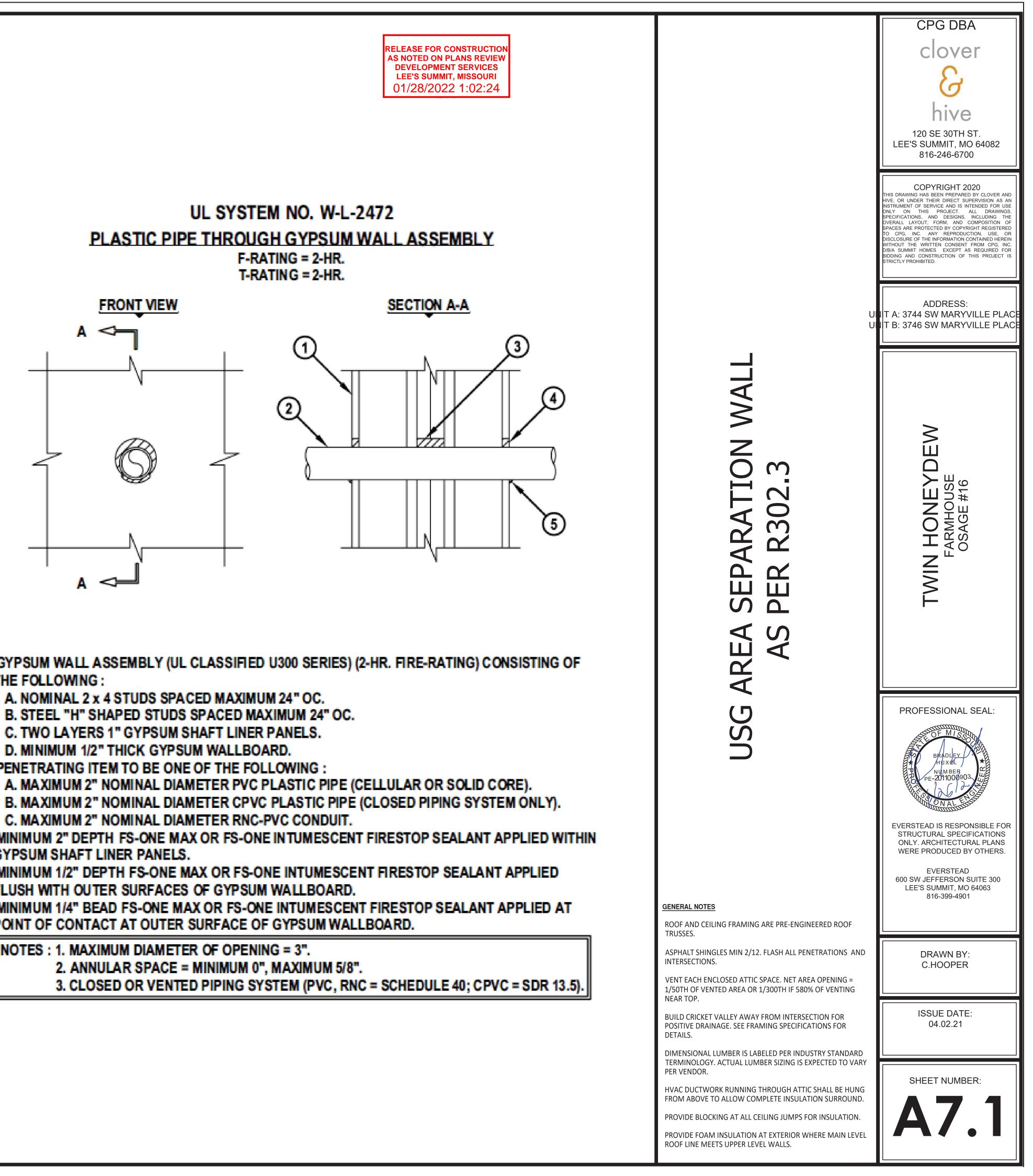


- 1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 SERIES) (2-HR. FIRE-RATING) CONSISTING OF THE FOLLOWING :
 - A. NOMINAL 2 x 4 STUDS SPACED MAXIMUM 24" OC.
 - B. STEEL "H" SHAPED STUDS SPACED MAXIMUM 24" OC.
 - C. TWO LAYERS 1" GYPSUM SHAFT LINER PANELS.
- D. MINIMUM 1/2" THICK GYPSUM WALLBOARD.
- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
 - A. MAXIMUM 8" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 5 OR HEAVIER).
 - B. MAXIMUM 8" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
 - C. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR TUBING.
 - D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
 - E. MAXIMUM 4" NOMINAL DIAMETER EMT.
- 3. MINIMUM 2" DEPTH FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED WITHIN GYPSUM SHAFT LINER PANELS.
- 4. MINIMUM 1/2" DEPTH FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED FLUSH WITH OUTER SURFACES OF GYPSUM WALLBOARD.
- 5. MINIMUM 1/4" BEAD FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT AT OUTER SURFACE OF GYPSUM WALLBOARD.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 10-1/2". 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8".

UL SYSTEM NO. W-L-2472 PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY F-RATING = 2-HR.

T-RATING = 2-HR. FRONT VIEW A <>



- 1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 SERIES) (2-HR. FIRE-RATING) CONSISTING OF THE FOLLOWING :
 - A. NOMINAL 2 x 4 STUDS SPACED MAXIMUM 24" OC.
 - B. STEEL "H" SHAPED STUDS SPACED MAXIMUM 24" OC.
 - C. TWO LAYERS 1" GYPSUM SHAFT LINER PANELS.
 - D. MINIMUM 1/2" THICK GYPSUM WALLBOARD.

- 2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
 - A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE).
 - C. MAXIMUM 2" NOMINAL DIAMETER RNC-PVC CONDUIT.
- 3. MINIMUM 2" DEPTH FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED WITHIN GYPSUM SHAFT LINER PANELS.
- 4. MINIMUM 1/2" DEPTH FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED FLUSH WITH OUTER SURFACES OF GYPSUM WALLBOARD.
- 5. MINIMUM 1/4" BEAD FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT AT OUTER SURFACE OF GYPSUM WALLBOARD.
- NOTES : 1. MAXIMUM DIAMETER OF OPENING = 3". 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 5/8". CLOSED OR VENTED PIPING SYSTEM (PVC, RNC = SCHEDULE 40; CPVC = SDR 13.5).

DEVELOPMEN LEE'S SU

RELEASE FOR CONSTRUCTIO AS NOTED ON PLANS REVIEW

GENERAL NOTES

PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) WITH AMENDMENTS AS ADOPTED BY THE APPROPRIATE GOVERNING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CHANGES OR DEVIATIONS FROM THE PLAN ARE MADE DURING CONSTRUCTION. THE ENGINEER OF RECORD MAY REQUIRE REVISED DRAWING OR CALCULATIONS AT ITS DISCRETION.

IF DISCREPANCIES ARE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION SHALL APPLY.

LOADING

DEAD		
LIGHT ROOF	10 PSF	
HEAVY ROOF	+10 PSF	(CONCRETE, SLATE, TILE)
ROOF + CEILING (NO STORAGE)	15 PSF	
ROOF + CEILING (STORAGE)	20 PSF	
CEILING JOISTS (STORAGE)	10 PSF	
EXTERIOR BACONIES / DECK	10 PSF	
INTERIOR FLOOR (MAIN FLOOR)	15 PSF	
INTERIOR FLOOR (UPPER FLOORS)	10 PSF	
8" THICK MASONRY WALL	80 PSF	
6" THICK MASONRY WALL	85 PSF	
EXTERIOR LIGHT FRAMED WOOD WALLS	15 PSF	
INTERIOR LIGHT FRAMED WOOD WALLS	10 PSF*	
*(INTERIOR WALLS IN	NCLUDED IN	15 PSF DEAD LOAD)
LIVE		

LIVE

<u></u>		
ROOF LIVE LOAD	15 PSF	
FLOOR LIVE LOAD	40 PSF	(HABITABLE)
GARAGE	50 PSF	
STORAGE	20 PSF	(UN-INHABITABLE)
GUARDRAIL		
CONTINUOUS LINEAR	50 PLD	
MAXIMUM POINTLOAD	200 LBS	
01014		
SNOW		
GROUND SNOW LOAD	20 PSF	
SKOUND SHOW LOAD	201 01	
WIND		
<u></u>		

ULTIMATE DESIGN WIND SPEED VELOCITY 115 MPH EXPOSURE CATEGORY

SOIL AND SITE ASSUMPTIONS:

- FOUNDATION DESIGN ASSUME A MINIMUM SOIL BEARING PRESSURE FOR THE SITE OF 1,500 PSF CONTRACTOR TO VISUALLY INSPECT SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS SW, SP, SM, SC, GM, AND GX AS DEFINED PER IRC TABLE R301.5. THE CONTRACTOR IS RESPONSIBLE FOR ANY SOIL CONDITION THAT DOES NOT MEET THE MINIMUM REQUIREMENTS AND CONTACTING THE ENGINEER OF RECORD
- 2. PROVIDE A MINIMUM SOIL COVER OF <u>36 INCHES MEASURED FROM THE BOTTOM OF CONCRETE ON</u> ALL FOUNDATIONS.
- ACCESSORY STRUCTURES WITH AN EAVE HEIGHT LESS THAN 10'-0" AND AN AREA LESS THAN 600 FT² MAT PROVIDE A MINIMUM SOIL COVER OF 12 INCHES MEASURED FROM THE BOTTOM OF CONCRETE.
- 4. SITE GRADING SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE AT A MINIMUM OF 0.5%.
- 5. LATERAL SOIL PRESSURES
- ACTIVE 30 PSF AT-REST 60 PSF

PASSIVE 150 PSF

FOUNDATION NOTES:

FOUNDATION ANCHORAGE (IRC 403.1.6)

SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDER AT LEAST 7" INTO THE CONCRETE. BOLTS SHALL BE SPACED NO GREATER THAN 6' 0.C. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION, WITH A BOLT PLACED WITHIN 12" AND NOT CLOSER THAN 7 BOLT DIAMETERS. OF THE END OF EACH PLATE SECTION. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE, (NOTE: 7" EMBEDMENT + 1-1/2" SILL PLATE + 3/4" FOR NUT AND WASHER EXCEEDS A 9" LONG BOLT.)

WALL BRACING METHODS PER IRC R602 MAY REQUIRE ADDITIONAL ANCHORAGE.

CONCRETE SLABS PLACED ON FILL MATERIAL WHICH EXCEEDS 24" OF COMPACTED GRANULATED MATERIAL (SAND OR GRAVEL) OR 8" OF EARTH: THIS MAY OCCUR AT GARAGE FLOOR FILLS, OR OVER EXCAVATED AREAS UNDER FLOOR SLABS. THE DESIGN AND INSTALLATION DETAILS IN THIS DOCUMENT (WHERE APPLICABLE BASED ON SIZE AND SPACING LIMITATIONS) MAY BE USED IN LIEU OF PROVIDING A SEPARATE DESIGN. STRUCTURAL SLABS EXCEEDING THE SPANS AND CONDITIONS OF THE APPROVED DETAILS SHALL BE DESIGNED BY A

SLABS AT MAX 4' OVER-DIG ADJACENT TO FOUNDATION WALL: WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4' HORIZONTALLY ADJACENT TO A FOUNDATION WALL, THE STANDARD OVER-DIG DETAIL MAY BE USED IN LIEU OF A COMPLETE STRUCTURAL SLAB. SEE "TYPICAL FOOTING/FOUNDATION WALL/STANDARD SLAB AT MAX 4' OVER-DIG DIAGRAM FOR DETAILS.

VAPOR RETARDER / BARRIER (IRC R506.2.3)

PROFESSIONAL ENGINEER.

A 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED A MINIMUM OF 6" IS REQUIRED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR PREPARED SUBGRADE, (NOT REQUIRED FOR GARAGE SLABS OR DETACHED ACCESSORY BUILDINGS)

FOUNDATION AND LOT GRADING (IRC R401.3)

GRADES SHALL BE SLOPED AWAY FROM THE FOUNDATION A MINIMUM OF 6" IN THE FIRST 10'. ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE, AND PROVIDES FOR POSITIVE SITE DRAINAGE.

IRC R403.1.4

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST
- PROTECTION. FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SF OR LESS AND AN EAVE HEIGHT OF 10' OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF 12".

FOOTINGS:

EXTERIOR WALLS, BEARING WALLS, COLUMN AND PIERS SHALL BE SUPPORTED ON CONTINUOUS SOLID MASONRY OR CONCRETE FOOTINGS, OR APPROVED STRUCTURAL SYSTEM TO SAFELY SUPPORT THE IMPOSED LOADS AND SHALL BE SIZED AND REINFORCED IN ACCORDANCE WITH THIS STANDARD OR THE STRUCTURE AND FROM ONE LEVEL TO THE NEXT. THE CONTINUOUS TRANSITIONS BETWEEN FOOTINGS AT DIFFERENT LEVELS ENCLOSING USABLE SPACE SHALL BE MADE BY APPROVED SOLID JUMPS OR SUPPORT SYSTEMS TO PROVIDE SAFE SUPPORT OF THE STRUCTURE. SEE "TYPICAL FOOTING/FOUNDATION WALLS/STANDARD SLAB AT MAXIMUM 4" OVER-DIG AND "FOOTING JUMP" DIAGRAMS FOR MORE DETAIL (PER KC, MO STANDARDS)

<u>CONCRETE</u>

- 1. ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-11 AND THE 2018 INTERNATIONAL RESIDENTIAL CODE.
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2.
- 3. CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS. ALL CONCRETE TO HAVE MAXIMUM 0.10 PERCENT WATER SOLUBLE CHLORIDE CONTENT BY WEIGHT OF CEMENT. ADMIXTURES SHALL NOT CONTAIN ANY CHLORIDES.
- 4. CONCRETE POURED AGAINST AN EXISTING SURGACE SHOULD BE ROUGHENED TO A MINIMUM 1/4 INCH AMPLITUDE.
- 5. REBAR CLEAR DISTANCE SHALL BE AS FOLLOWS: -CAST AGAINST AND PERMANENT CONTACT WITH GROUND3 IN -EXPOSED TO WEATHER OR IN CONTACT WITH GROUND - NOT EXPOSED TO WEATHER OR GROUND
- 6. CONCRETE MIX DESIGN SHALL BE 6% (±1%) AIR-ENTRAINED FOR GARAGE SLABS, FOOTINGS, WALLS, OR FLATWORK EXPOSED TO WEATHER.
- 7. SHORING AND RESHORING: BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28

DAYS -SHORING MAY NOT BE REMOVED SOONER THAN RECOMMENDED BY ASTM 374-04 SECTION 3.7.2.3.

MINIMUM STANDARDS

OTHERWISE. REINFORCING BAR SHALL BE GRADE 60 MINIMUM.

CONCRETE REINFORCEMENT STEEL

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- 2. SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 3. ALL REBAR LAP SPLICES SHALL BE CLASS B LAP SPLICES AS SHOWN ON THE LAP SPLICE SCHEDULE.
- 4. DEVELOPMENT LENGTH NOTED IS EQUAL TO 80% OF THE LENGTH NOTED IN THE LAP SPLICE SCHEDULE.
- 5. 90% HOOK SHOWN IN DRAWINGS SHALL BE STANDARD PER ACI 318-14 -STRAIGHT EXTENSION LENGTH = $12xØ_{BAR}$ -BEND DIAMETER = $12XØ_{BAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)
- 7. HOOKED DOWELS:
- REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF FOUNDATION
- 8. PROVIDE 2 #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS
- HOOK
- 10. TOP AND BOTTOM HORIZONTAL REINFORCING SHALL BE PLACED 1-1/2" TO 2" FROM THE TOP AND BOTTOM OF THE WALL

FOOTNOTES:

- 1. WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB.
- 2. VERTICAL REINFORCEMENT FOR CONCRETE WALLS THAT ARE NOT FULL HEIGHT AND FOR SHALL HAVE VERTICAL REINFORCEMENT PLACE AS FOLLOWS:
- A. 8" WALL MINIMUM 5" FROM THE OUTSIDE FACE. B. 10" WALL - MINIMUM 6-3/4" FROM THE OUTSIDE FACE. C. EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL.
- 3. HORIZONTAL REINFORCEMENT:
- A. ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL.
- BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE).
- CORNERS.

- BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS (SEE TYPICAL DEAD MAN SECTION). TABLE 1.1

	NORMAL WEIGHT CONCRETE LAP SPLICE SCHEDULE, IN							
BAR	TOP BARS		OTHEF	RBARS				
SIZE	CASE 1	CASE 2	CASE 1	CASE 2				
#3	28	42	22	32				
#4	37	56	29	43				
#5	47	70	36	54				
#6	56	84	43	64				

SHALL BE ENGINEERED DESIGN. FOOTINGS UNDER FOUNDATION WALLS SHALL BE CONTINUOUS AROUND

2 IN 1.5 IN

-SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS

CONCRETE SHALL BE 6% (± 1%) AIR-ENTRAINED FOR GARAGE SLABS AND FOR ALL LOCATION'S FOOTINGS, WALLS OR FLATWORK WHERE EXPOSED TO WEATHER. REBAR SHALL BE MINIMUM 60 KSI UNLESS NOTED

7.1. HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL 7.2. HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO FOUNDATION

9. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD

REINFORCEMENT SPACED 24" O.C. MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS

B. OTHER BARS SHALL BE EQUALLY SPACED WITH SPACING NOT TO EXCEED 24" O.C. C. HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR); AND D. SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE 1 #4 REBAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE

4. REINFORCEMENT SHALL BE LAPPED A MINIMUM 24" AT ENDS, SPLICES, AND AROUND CORNERS.

5. AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3-1/2". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL FOR WALL THICKNESS LESS THAN 4" PROVIDE #4 BARS AT MAXIMUM 24" O.C. TO WITHIN 8" OF THE TOP OF THE WALL.

6. STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16' LONG SHALL BE PROVIDED WITH EXTERIOR

STEEL DECK - SUSPENDED SLABS

1. STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.

STEEL ROOF DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

- WIDE RIB CONFIGURATION
- 1.5" DEPTH 24GA DESIGN THICKNESS
- MAXIMUM SINGLE SPAN OF 4'-8" OR CONTINUOUS SPAN OF 5'-10"
- GALVANIZE PER ASTM A653 OR SHOP PRIME PER ASTM A1008
- ATTACH STEEL ROOF DECK TO SUPPORTS WITH #12 TEK AT 18" O.C. ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR
- MID-SPAN, WHICHEVER IS SMALLER
- 3. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF COVERING.
- 4. STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

STEEL DECK - SUSPENDED SLABS STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.

CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF COVERING STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS:

- 2" COMPOSITE DECK WITH 6" TOTAL SLAB THICKNESS 19GA DESIGN THICKNESS
- MAXIMUM SINGLE SPAN DURING CONSTRUCTION OF 8', 2 SPAN OF 10'-1", OR 3 SPAN OF 10'-5".
- MAXIMUM SPAN SHALL NOT EXCEED 12.5'. PROVIDE W2.1xW2.1 WELDED WIRE MESH OR #4 @ 12" O.C. EACH WAY. PROVIDE 2" REBAR
- COVER MEASURED FROM TOP OF THE SLAB GALVANIZE PER ASTM A653
- MINIMUM BEARING LENGTH AT EDGE SUPPORTS IS 2"
- MINIMUM BEARING LENGTH AT INTERIOR SUPPORTS IS 4" • ATTACH STEEL COMPOSITE FLOOR DECK TO SUPPORTS WITH 5/8" ARC PUDDLE WELDS AT 12" O.C. MECHANICAL FASTENERS EITHER POWDER ACTUATED, PNEUMATICALLY DRIVEN, OR SCREWS MAY BE USED IN LIEU OF WELDING PROVIDED THEY ARE APPROVED.
- ATTACH STEEL ROOF DECK SIDELAPS WITH #10 TEK OR CRIMP/BUTTON PUNCH AT 36" O.C. OR MID-SPAN, WHICHEVER IS SMALLER. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY POUR STOPS, COLUMN CLOSURES, END PLATES, AND COVER PLATES AS NEEDED.

STRUCTURAL STEEL

1. STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS:	
HOLLOW STRUCTURAL SECTIONS:	ASTM A500 (Fy = 46 KSI)
CHANNELS, PLATES AND ANGLES:	ASTM A36 (Fy = 36 KSI)
WIDE FLANGES:	ASTM A992 (Fy = 50 KSI)
COLUMNS:	ASTM A53 GR. B (Fy= 35 KSI)
ANCHOR RODS:	ASTM F1554 (Fy = 36 KSI)

3. BOLTS SHALL CONFORM TO ASTM A307

- WELDING SHALL CONFORM TO THE AWS CODES FOR BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE TO WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER.
- WELDS SHALL USE E70XX ELECTRODES AND A MINIMUM OR 3/16" SIZE UNLESS NOTED OTHERWISE
- 6. ALL WELDS SPECIFIED AS FIELD WELDS MAY BE SHOP WELDED AT THE CONTRACTOR'S OPTION IF ERECTION CAN STILL BE EXECUTED.

ENERGY REQUIREMENTS:

- 1. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED, AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER IRC N1102.4.4.
- 2. PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.1.1.
- 3. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER N1103.3.2.1.
- 4. BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
- AS REQUIRED PER M1503.6.

GARAGES:

- 2. DOORS BETWEEN THE GARAGE AND THE DWELLING MINIMUM 1-3/8" SOLID CORE OR HONEY COMBED STEEL DOOR OR 20 MINUTE FIRE RATED.
- 3. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND IT'S ATTIC AREAS BY A MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE.
- 4. THE GARAGE COLUMNS AND BEAMS SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH 5/8" GYPSUM BOARD OR EQUIVALENT. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE THE FLOOR CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM PS TYPE "X" GYPSUM BOARD ON THE GARAGE CEILING.
- 5. GARAGE DOOR AND FRAME THE "H" FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING 2x6 VERTICAL JAMBS RUNNING FROM THE FLOOR TO CEILING, ATTACHED WITH 1-3/4"x0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 3-1/4"x0.120" NAILS THROUGH THE JAMB INTO THE HEADER. A MINIMUM OF 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.
- 6. SELF CLOSING DEVICES SHALL BE INSTALLED FOR GARAGE AND/OR DWELLING SEPARATION DOORS PER R302.5.1.

STAIRWAYS:

- 2. PROVIDE GUARD RAILS BETWEEN 36" GUARD RAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES AND BALCONIES; MINIMUM 34" GUARD RAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW.
- 3. GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
- 4. EACH STAIRWAY OF THREE OR MORE RISERS SHALL PROVIDE A CONTINUOUS HANDRAIL ON AT LEAST ONE SIDE BETWEEN 34" AND 38" ABOVE THE NOSING OF THE TREADS.
- 5. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" TO 2-5/8" OR OTHER APPROVED GRASPABLE SHAPE PER IRC R311.5.6.

GLAZING

- 1. PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SF WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21"
- 3. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.

- FRAMING NOTES:
- 2. ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2x10 ON LOAD BEARING
- WALLS.
- 3. ALL HEADER/BEAMS TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE.
- 4. DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS.
- 5. CANTILEVERS, OVER BEAMS, AND DOOR JAMBS SHALL BE BLOCKED
- 6. ANY WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY (OR THE FURRING THEY ARE ATTACHED TO) SHALL BE OF DECAY RESISTANT MATERIAL.
- 7. INTERIOR NON LOAD BEARING WALLS SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE UNLESS THE INTERIOR NON LOAD BEARING WALL RESTS DIRECTLY ON A FOOTING.
- 8. LVL STRENGTH SHALL BE VERSA-LAM 3100 Fb UNLESS NOTED OTHERWISE.

- 5. HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4.
- 6. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER IRC M1504.3. 7. MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM
- 8. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6 ENERGY CONSERVATION.
- 1. THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.

- 7. GARAGE VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 90 MPH WIND LOAD REQUIREMENTS OF DASMA 108 AND ASTM E330-96 (IRC 301.2.1).
- 1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.
- 6. MINIMUM 6'-8" OF HEADROOM CLEARANCE IS REQUIRED IN STAIRWAYS.
- 7. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM BOARD ON ENCLOSURE SIDE PER IRC R311.2.2.
- 1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS; GLASS IN STORM DOORS; INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS WITHIN 60" OF THE FLOOR; WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 60" OF THE TOP OR BOTTOM OF THE STAIR; ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS; GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING 8 SF AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".
- 2. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH R312.2.

EMERGENCY EGRESS AND RESCUE

- 2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.
- 4. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER R315.
- 1. ALL LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED.



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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

ITEM DESCRIPTION OF BUILDING ELEMENTS NUMBER AND TYPE OF FASTENER SPACING AND LOCATION 1 BLOCKING BETWEEN CELING JUSTS OR RAFTERS TO TOP PLATE (ROOF) 440 BOX (2127) 0.1137) OR 340 DOMMON (2127) 0.1377) 0.01 340 DOMMON (2127)	
ROOF ABD BOX (2-12" x0.113") OR 3-80 COMMON (2-12" x0.113") OR 3-90 COMMON (2-12" x0.113") OR 3-100 BOX (3" x0.128") CR BEX COMMON (2-12" x0.113") OR 3-90 BOX (2-12" x0.113") OR 3-90 COMMON (2-12" x0.113") OR 3-100 BOX (3" x0.128") CR BEX COMMON (2-12" x0.113") OR 3-90 BOX (2-12" x0.113") OR 3-90 BOX (2-12" x0.113") OR 3-100 BOX (3" x0.128") CR BEX COMMON (2-12" x0.113") OR 3-90 BOX (2-12" x0.113") OR 3-100 BOX (3" x0.128") CR BEX COMMON (2-12" x0.113") OR 3-100 BOX (3" x0.128") CR 4 CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER HEEL JOINT -100 BOX (3" x0.128") CR FACE NAIL 5 CEILING JOIST TO FLATE -100 BOX (3" x0.128") CR FACE NAIL 6 RAFTER OR ROOF TRUSS TO FLATE -100 BOX (3" x0.128") CR 2 TOE NAILS (3-12" x0.131") CR 6 RAFTER OR ROOF TRUSS TO FLATE -100 BOX (3" x0.128") CR 2 TOE NAILS (3-12" x0.131") CR 7 COMPONT TRUSS TO FLATE -100 BOX (3" x0.128") CR 2 TOE NAILS (3-12" x0.131") CR 6 RAFTER OR ROOF TRUSS TO FLATE -100 BO	
Joisto GRAVIERS ID 109 PLATE 3-37 x 0.131" NALS 3-37 x 0.131" NALS 4-80 BOX (2-1/2% 0.137); OR 3-80 COMMON (2-1/2% 0.137); OR 3-80 COMMON (2-1/2% 0.137); OR 3-80 BOX	TOE NAIL
2 CEILING JOSTS TO TOP PLATE 480 BOX (2-1/27x 0.131°) OR 3-80 COMMON (2-1/27 x 0.131°), OR 3-100 COMMON (2-1/27 x 0.131°), OR 3-100 COMMON (2-1/27 x 0.132°), OR 3-100 COMMON (2-1/27 x 0.132°)	4" O.C. TOE NAIL
CELLING JOISTS NOT ATTACHED TO PARALLEL RAFTER LAPS OVER PARALLEL RAFTER (HEEL JOINT) TABLE R802.5.2 FACE NAIL 4 CELLING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) TABLE R802.5.2 FACE NAIL 5 COLLAR TIE TO RAFTER, FACE NAIL 4-100 BOX (3" X 0.128"); OR 3-100 COMMON (3" X 0.148"); OR 4-37 X 0.131" NAILS FACE NAIL 4-100 BOX (3" X 0.128"); OR 3-166 BOX NAILS (3-102"X0.135"); OR 3-166 BOX NAILS (3-102"X0.135"); OR 4-37 X 0.131" NAILS 5-166 DOXMON (3-102"X 0.135"); OR 3-166 COMMON NAILS (3" X 0.148"); OR 4-37 X 0.131" NAILS 21 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS 21 TOE NAIL 24 21 SUBFLOOR ON LESS TO EACH 24 21 TOE DOXMON (3-102"X 0.135"); OR 3-160 DOX (3" X 0.148"); OR 4-37 X 0.131" NAILS 3-168 BOX NAILS (3-102"X0.150"); OR 4-100 BOX (3" X 0.148"); OR 4-37 X 0.131" NAILS 21 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS 21 TOE NAIL 0N OPPOSITE SIDE OF EACH RAFTER OR TRUSS 21 TOE ONMON (3-12"X 0.152"); OR 4-10 BOX (3" X 0.128"); OR 4-10 BOX (3" X 0.128"); OR 4-10 BOX (3" X 0.128"); OR 4-100 BOX (3" X 0.148"); OR 3-10D COMMON (3-12"X 0.152"); OR 3-10D BOX (3" X 0.128"); OR 3-10D BOX (3" X	6" O.C. TOE NAIL
4 CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) TABLE R802.5.2 FACE NAIL 5 COLLAR TIE TO RAFTER, FACE NAIL 5 4.10D BOX (3* X.0.128"); OR 3.10D COMMON (3* X.0.148"); OR 4.3* X.0.131" NAILS FACE NAIL EACH RAFTER 24 2* SUBFLOOR TO JOIST OR GIRDER 8.10D COMMON (3*.0.148"); OR 4.3* X.0.131" NAILS 3.16D BOX (3-1/2* X.0.135"); OR 3.10D BOX (3* X.0.128"); OR 4.3* X.0.131" NAILS 3.16D BOX (3-1/2* X.0.135"); OR 3.16D BOX (3* X.0.128"); OR 4.3* X.0.131" NAILS 3.16D BOX (3-1/2* X.0.135"); OR 3.16D BOX (3* X.0.128"); OR 4.3* X.0.131" NAILS 3.16D BOX (3-1/2* X.0.135"); OR 3.16D BOX (3* X.0.128"); OR 4.3* X.0.131" NAILS 3.16D BOX (3-1/2* X.0.135"); OR 3.16D BOX (3* X.0.128"); OR 4.3* X.0.131" NAILS 3.16D BOX (3-1/2* X.0.135"); OR 3.16D BOX (3* X.0.128"); OR 4.3* X.0.131" NAILS 3.16D BOX (3* X.0.128"); OR 3.16D BOX (3* X.0.128"); OR 3.3* X.0.131" NAILS END NAIL 3.16B BOX NAILS (3.1/2* X.0.135"); OR 3.16D BOX (3* X.0.128"); OR 3.3* X.0.131" NAILS 10D BOX (3* X.0.128"); OR 3.16D BOX (3* X.0.1	FACE NAIL
PARALLEL RATER (RELE JOIN)	l
5 OR 1-1/4*x20 GAGE RIDGE STRAP TO RAFTER 3-10D COMMON (3* x 0.148*); OR 4-3* x 0.131* NAILS FACE NAIL EACH RAFTER 4-3* x 0.131* NAILS 2100 BOX (3* (2* x 0.135*); OR 2-16D BOX (3/ (2* x 0.135*); OR 2-16D COMMON (3-1/2* x 0.135*); OR 4-3* x 0.131* NAILS 6 RAFTER OR ROOF TRUSS TO PLAT 4-100 BOX (3* X .128*); OR 4-3* X 0.131* NAILS 2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS 2.100 COMMON (3-1/2* x 0.135*); OR 4-3* X 0.131* NAILS; OR 4-3* X 0.131* NAILS; OR 4-3* X 0.131* NAILS; OR 4-3* X 0.131* NAILS 3-16D COMMON (3-1/2* X 0.135*); OR 4-3* X 0.131* NAILS; OR 4-3* X 0.131* NAILS; OR 4-3* X 0.131* NAILS; OR 4-3* X 0.131* NAILS; 3-16D COMMON (3-1/2* X 0.135*); OR 3-16D COMMON (3* X 0.148*); OR 4-3* X 0.131* NAILS; 3-16D COMMON (3* X 0.128*); OR 4-3* X 0.131* NAILS; 3-16D COMMON (3* X 0.128*); OR 3-10D BOX (3* X 0.128*); OR 3-10D BOX (3* X 0.128*); OR 3-10D BOX (3* X 0.128*); OR 3-3* X 0.131* NAILS 3-16D COMMON (4* X 0.192*); OR 3-10D BOX (3* X 0.128*); OR 3-10D BOX (3* X 0.128*); OR 3-10D BOX (3* X 0.128*); OR 3-3* X 0.131* NAILS 3-10D BOX (3* X 0.128*); OR 3-10D BOX (3* X 0.128*); OR 200 COMMON (4* X 0.192*); OR 3-10D BOX (3* X 0.128*); OR 3-10D BOX (3* X 0.128*); OR 8 STUD TO STUD (NOT AT BRACED 100 RDX (3* 0.128*); OR	BLIND AND FACE NAIL
6 RAFTER OR ROOF TRUSS TO PLATE ^{3.16d} BOX NAILS (3*1/2"x0.135") OR ^{3.10d} COMMON NAILS (3*0.148"); OR ^{4.3} x 0.131" NAILS ^{2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS ^{2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS ^{3.16d} COMMON NAILS (3*0.148"); OR ^{4.3} x 0.131" NAILS ^{3.16d} COMMON (3.1/2" x 0.162"); OR ^{4.3} x 0.131" NAILS 7 ^{ROOF} RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM ^{4.16D} (3.1/2" x0.135"); OR ^{4.3} x 0.131" NAILS ^{3.16d} COMMON (3*1/2" x 0.162"); OR ^{4.3} x 0.131" NAILS 3.16d BOX NAILS (3*1/2"x0.135"); OR ^{4.3} x 0.131" NAILS ^{4.10B} (3.1/2" x0.135"); OR ^{4.3} x 0.131" NAILS ^{3.16d} COMMON (3*1/2" x 0.162"); OR ^{4.3} x 0.131" NAILS 0 ^{AIDB} BOX (3" x 0.128"); OR ^{3.10D} BOX (3" x 0.128"); OR ^{3.10D} BOX (3" x 0.128"); OR ^{3.10D} BOX (3" x 0.131" NAILS ^{BUILT-UP GIRDERS AND BEAMS, 2" ^{10D} BOX (3" x 0.128"); OR ^{3.10D} BOX (3' x 0.128"); OR ^{3.10D} B}}}	AT EACH BEARING, FACE NAIL
7 ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE BEAM	END NAIL
TO MINIMUM 2" RIDGE BEAM 3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON NAILS (3-1/2"x0.162"); OR 3-10D BOX (3" X .128"); OR 3-3" X 0.131" NAILS END NAIL 27 BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS V VALL VALL Image: Common (A = X 0.192"); OR 3-3" X 0.131" NAILS AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS 8 STUD TO STUD (NOT AT BRACED WALL 16D COMMON (3-1/2" X 0.162") 24" O.C. FACE NAIL 4-16D BOX (3-1/2" X 0.135"); OR 3-16D COMMON (3-1/2" X 0.135"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 3-16D COMMON (3-1/2" X 0.162"); OR	NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP END AND BOTTOM AND STAGGERED.
8 STUD TO STUD (NOT AT BRACED WALL DANIEL 2) 16D COMMON (3-1/2" X 0.162") 24" O.C. FACE NAIL 4-16D BOX (3-1/2" X 0.135"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4 10D POX (3" X 0 128"); OR	24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE
8 STUD TO STUD (NOT AT BRACED 10d BOX (3"x0 128"): OR 28 29 20 29 29 29 29 29 29 29 29 29 29 29 29 29 29 29 29 29 29 20 20 20 20 20 20 </td <td></td>	
8 WALL PANELS) 10d BOX (3"x0.128"); OR 3" X 0.131" NAILS 16" O.C. FACE NAIL 28 28 4-10D BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE NAIL
9 STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL	
9 CORNERS (AT BRACED WALL PANELS) 16D COMMON (3-1/2" X 0.162") 16" O.C. FACE NAIL 29 JOIST Common (2-1/2 X 0.131", OK 2-3 X 0.131")	
10 BUILT-UP HEADER (2" TO 2" HEADER WITH ½" SPACER) 16D COMMON (3-1/2"x0.162") 16" O.C. ALONG EACH EDGE FACE NAIL 10 16D BOX (3-1/2" x 0.135) 12" ALONG EACH EDGE FACE NAIL DESCRIPTION OF BUILDING	SPACING OF FASTENERS
Image: The ADERCYNTY 2 of ADERCY 16D BOX (3-1/2" X 0.135) 12" ALONG EACH EDGE FACE NAIL ITEM DESCRIPTION OF BUILDING ELEMENTS NUMBER AND TYPE OF FASTEN 11 CONTINUOUS HEADER TO STUD 5-8D BOX (2-1/2" X 0.113"); OR 4-8D COMMON (2-1/2" X 0.131"); OR 4-10D BOX (3" X 0.128") TOENAIL ITEM DESCRIPTION OF BUILDING ELEMENTS NUMBER AND TYPE OF FASTEN	EDGES (IN) INTERMEDIATE SUPPORTS (IN)
Intersection Intersection 6d COMMON (2"x0.113") NAILS (SUBFLO WALL) 16D COMMON (3-1/2" X 0.162") 16" O.C. FACE NAIL 6d COMMON (2"x0.113") NAILS (SUBFLO WALL)	JR,
12 TOP PLATE TO TOP PLATE 10d BOX (3"x0.128"); OR 3" X 0.131" NAILS 12" O.C. FACE NAIL 30 3/8" - 1/2" 8d COMMON (2-1/2"x0.131") NAIL (ROOF RSRS-01 (2-38" X 0.113") NAIL (ROOF)	; OR 6 12
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 12-10D 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) 31 19/32"-1" 8d COMMON NAIL (2-1/2"x0.131"); OR RSRS-01 (2-3/8" X 0.113") NAIL (ROOF)	6 12
BOTTOM PLATE TO JOIST, RIM 16D COMMON (3-1/2" X 0.162") 16" O.C. FACE NAIL 32 1-1/0 - 1-1.4 8D (2-1/2"x0.131") DEFORMED NAIL	6 12
14 JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS) 16D BOX (3-1/2"x0.135"); OR 3" X 0.131" NAILS 16D BOX (3-1/2"x0.135"); OR 12" O.C. FACE NAIL 11" O.C. FACE NAIL	
15 BOTTOM PLATE TO JOIST, RIM 3-16d BOX NAILS (3-1/2"x0.135") OR 3 EACH 16" O.C. FACE NAIL 33 1/2" STRUCTURAL CELLULOSIC HEAD DIAMETER, OR 1-1/4" LONG 16 G/ 15 JOIST, BAND JOIST BLOCKING (AT 2-16D COMMON (3-1/2"x0.162"); OR 3 EACH 16" O.C. FACE NAIL 33 1/2" STRUCTURAL CELLULOSIC HEAD DIAMETER, OR 1-1/4" LONG 16 G/ 15 JOIST, BAND JOIST BLOCKING (AT 2-16D COMMON (3-1/2"x0.162"); OR 3 EACH 16" O.C. FACE NAIL 33 1/2" STRUCTURAL CELLULOSIC HEAD DIAMETER, OR 1-1/4" LONG 16 G/ 15 JOIST, BAND JOIST BLOCKING (AT 2-16D COMMON (3-1/2"x0.162"); OR 3 EACH 16" O.C. FACE NAIL 33 1/2" STRUCTURAL CELLULOSIC HEAD DIAMETER, OR 1-1/4" LONG 16 G/ 15 JOIST, BAND JOIST BLOCKING (AT 2-16D COMMON (3-1/2"x0.162"); OR 3 EACH 16" O.C. FACE NAIL 33 STAPLE WITH 7/16" OR 1" CROWN	· 3 6
4-8D BOX (2-1/2"x0.113") OR 3-16D BOX (3-1/2" x 0.135"); OR 4 8D COMMON (2 1/2" X 0.135"); OR 4 8D COMMON (2 1/2" X 0.131"): OP TOE NAIL TOE NAIL TOE NAIL TOE NAIL TOE NAIL TOE NAIL TOE NAIL TOE NAIL	3 6
16 TOP OR BOTTOM PLATE TO STUD 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS 35 1/2" GYPSUM SHEATHING 1-1/2" GALVANIZED ROOFING NAIL; STA GALVANIZED, 1-1/2" LONG; 1-1/4" SCRE TYPE "W" OR "S" 3-16D BOX (3-1/2" x 0.135"); OR 3-16D BOX (3-1/2" x 0.135"); OR 35 1/2" GYPSUM SHEATHING 1-1/2" GALVANIZED ROOFING NAIL; STA GALVANIZED, 1-1/2" LONG; 1-1/4" SCRE TYPE "W" OR "S"	VS, 7 7
2-16D COMMON (3-1/2" X 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS 2-16D COMMON (3-1/2" X 0.162"); OR 3-3" x 0.131" NAILS 2-16D COMMON (3-1/2" X 0.162"); OR 3-3" x 0.131" NAILS	VS, 7 7
17 TOP PLATES, LAPS AT CORNERS 3-10D BOX (3" X 0.128"); OR 2-16D COMMON (3-1/2" X 0.162"); OR FACE NAIL OT <	
AND INTERSECTIONS 3-3" X 0.131" NAILS 37 3/4" AND LESS 8D COMMON (2-1/2"x0.131") NAIL 37 3/4" AND LESS 8D COMMON (2-1/2"x0.131") NAIL 8D COMMON (2-1/2"x0.131") NAIL	6 12
18 1" BRACE TO EACH STUD AND PLATE 2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" X 0.128"); OR 2 STAPL ES 1-3/4" SA 7/8" - 1" 8D DEFORMED (2-1/2"x0.120") NAIL 2-10D BOX (3" X 0.128"); OR 10D COMMON (3"x0.148") NAIL OR 20 14/8" - 1.4/4" 10D COMMON (3"x0.148") NAIL OR	6 12 6 12
19 1"x6" SHEATHING TO EACH BEARING 3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 2-10D BOX (3" X 0.128"); OR 2-10D BOX (3" X 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG FACE NAIL	
20 1"x8" AND WIDER SHEATHING TO FACH REAPING WIDER SHEATHING TO WIDER THAN 1" X 8" FACE NAIL	
20 EACH BEARING WIDER THAN 1" X 8" TAGE INALE 4-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR TABLE R507.2.1 PLACEMENT OF LA 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR MINIMUM END AND EDGE DISTANCE 4 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG MINIMUM END AND EDGE DISTANCE (INCHI	AND JOISTS

TABLE R507/2 FASTENER SPACING FOR	A SOUTHERN PINE		LEDGER 2" NOMIN DEAD LOAD = 10 P		PRUCE-PINE-FIR BA	AND JOIST (DECK LI	VE LOAD = 40PSF,
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" DIAMETER LAG SCREW WITH 15/32" MAX SHEATHING	30	23	18	15	13	11	10
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING	36	36	34	29	24	21	19
1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING AND 1/2" STACKED WASHERS	36	36	29	24	21	18	16

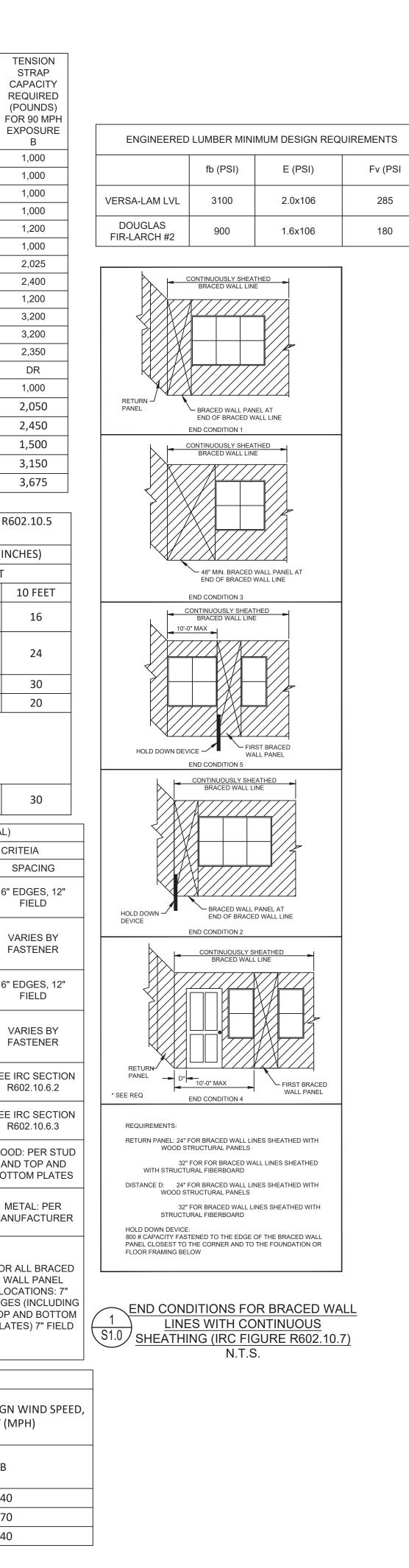
MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE	MAXIMUM PONY WALL HEIGHT (FEET)	MAXIMUM TOTAL WALL HEIGHT (FEET)	MAXIMUM OPENING WIDTH (FEET)	(F (E
	0	10	18	
			9	
	1	10	16	
2x4 NO 2 GRADE			18	
			9	
	2	10	16	
			18	
			9	
	2	12	16	
			18	
			9	
	4	12	16	
			18	
			9	
	2	12	16	
2x6 STUD			18	
GRADE			9	
	4	12	16	
			18	

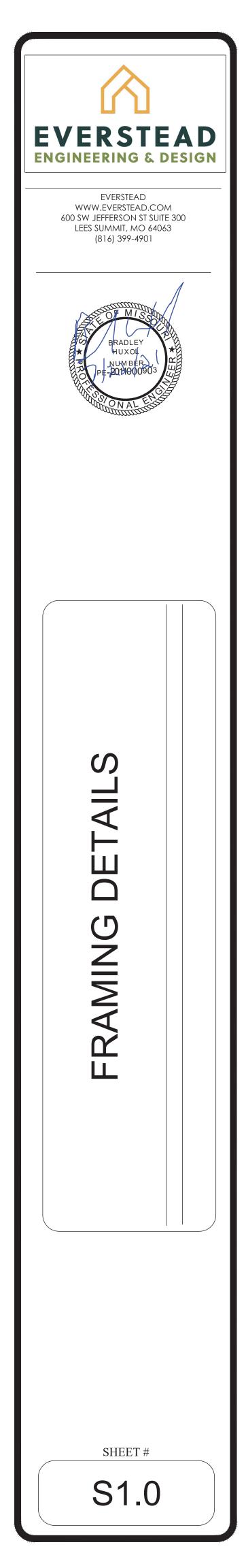
MINIMU	M LENGTH OF BR/	ACED WALL F (PARTIAL)	PANELS TABLE	Re	
		MINIM	1UM LENGTH (IN	
METHOD		WALL HEIGHT			
		8 FEET	9 FEET		
PFH	SUPPORTING ROOF ONLY	16	16		
	SUPPORTING ONE STORY AND ROOF	24	24		
	PFG	24	27		
	CS-PF	16	18		
CS-WSP	ADJACENT CLEAR OPENING HEIGHT (INCHES)				
	LESS THAN OR EQUAL TO 64	24	27		
	BRACING METHO	DS TABLE R6	02.10.4 (PARTIA	L)	

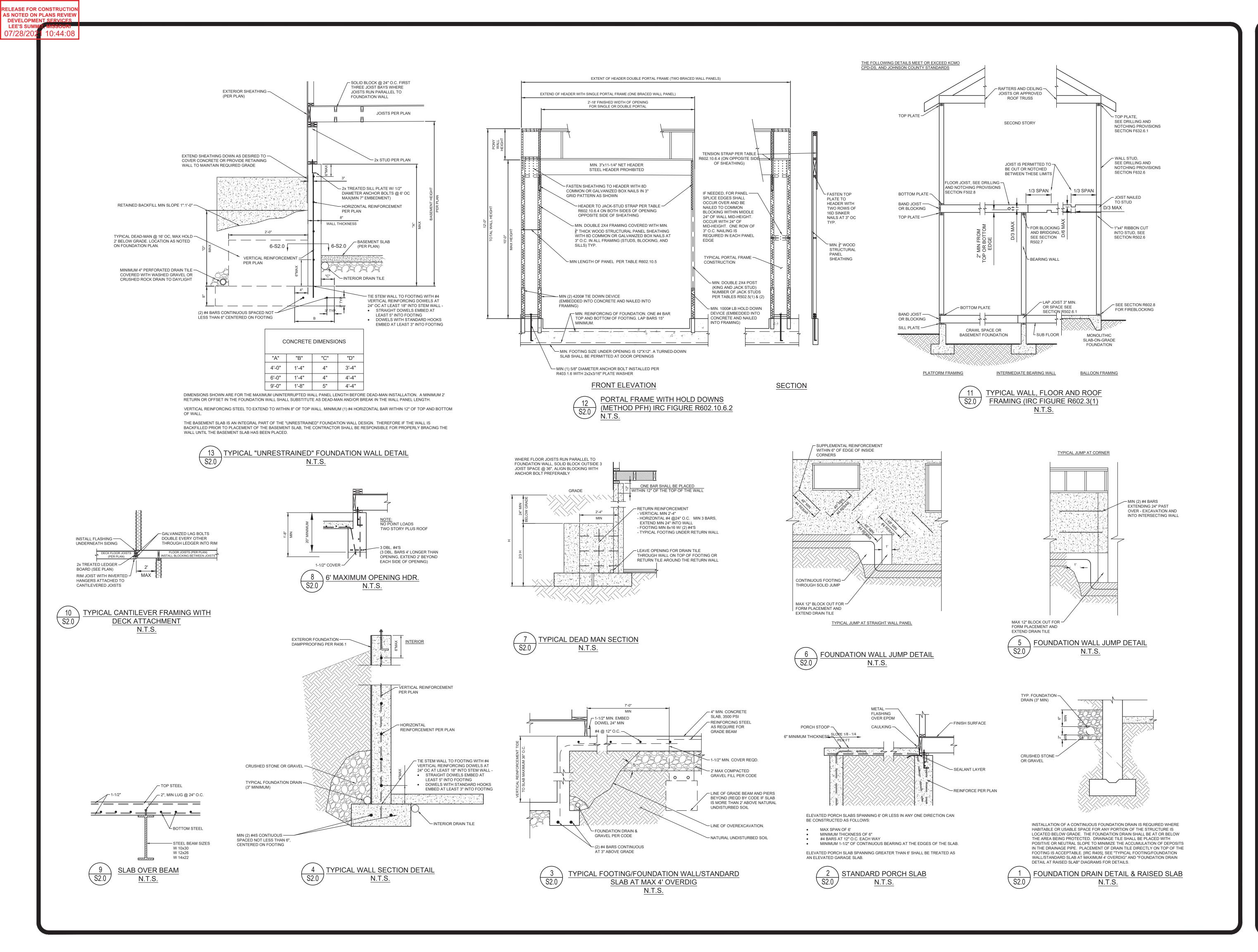
BRACING METHODS TABLE R602.10.4 (PARTIAL)						
METHODS,	MINIMUM	CONNECTION CR				
MATERIAL	THICKNESS	FASTENERS				
WSP - WOOD		EXTERIOR SHEATHING PER TABLE R602.3(3)	6"			
STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	V F			
CS-WSP CONTINUOUSLY		EXERIOR SHEATHING PER TABLE R602.3(3)	6"			
SHEATHED WOOD STRUCTURAL PANEL	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	V F			
PFH - PORTAL FRAME WITH HOLD DOWNS	3/8	SEE IRC SECTION R602.10.6.2	SEE R			
PFG - PORTAL FRAME AT GARAGE	3/8	SEE IRC SECTION R602.10.6.3	SEE R			
LIB	1x4 WOOD OR APPROVED METAL STRAPS AT 45 TO 60	WOOD: 2-8d COMMON NAILS OR 3-8d NAILS	WOC AN BOT			
LET-IN-BRACING	DEGREE ANGLES FOR MAX 16" STUD SPACING	METAL STRAP: PER MANUFACTURER	M MAN			
GB-GYPSUM	1/2	NAILS OR SCREWS PER TABLE R602.3(1) FOR EXTERIOR LOCATIONS	FOR W/ LOO			
BOARD		NAILS OR SCREWS PER TABLE R702.3.5 FOR INTERIOR LOCATIONS	EDGE TOP PLA ⁻			

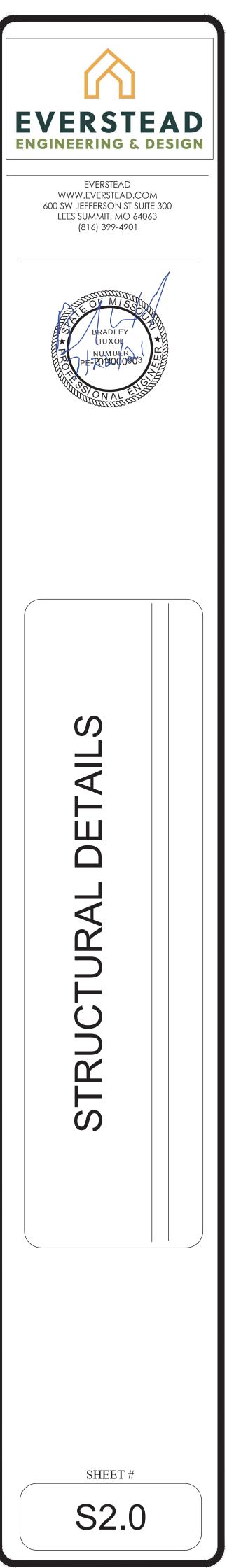
TABLE R507.	TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS					
MINIMUM END	MINIMUM END AND EDGE DISTANCES AND SPACING BETWEEN ROWS (INCHES)					
	TOP EDGE	BOTTOM EDGE	ENDS	ROW SPACING		
LEDGER	2	1/4	2	1-5/8		
BAND JOIST	3/4	2	2	1-5/8		

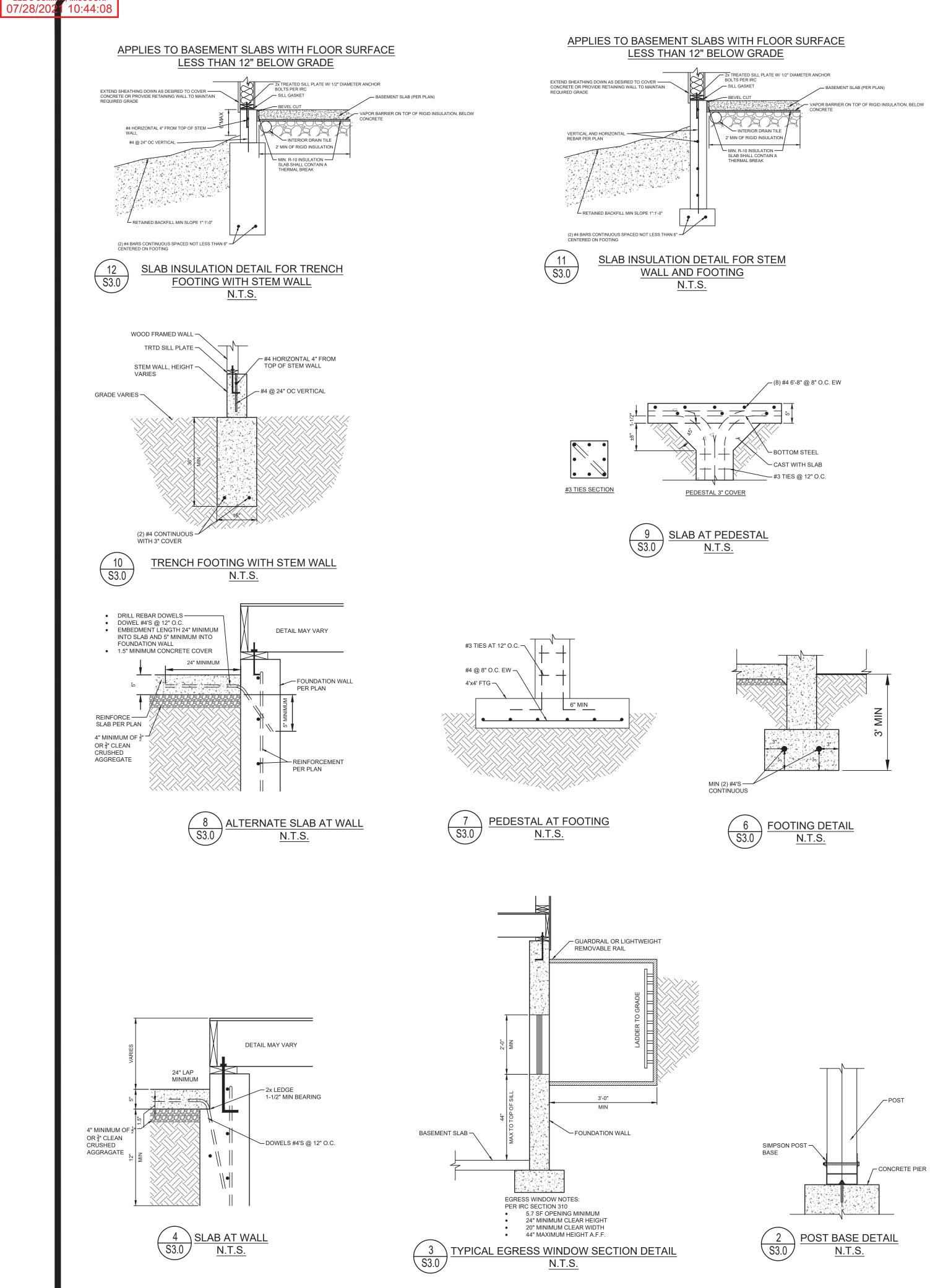
REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL)							
MINIMUM NAIL		STRUCTURAL NOMINAL P	MINIMUM NOMINAL PANEL	INAL PANEL MAX WALL STUD	PANEL NAIL SPACING		ULTIMATE DESIGN V V ULT (MP
SIZE	PENETRATION (IN)	PANEL SPAN RATING	THICKNESS (IN)	SPACING	EDGES (IN O.C.)	FIELD (IN O.C.)	В
6d COMMON	1.5	24/0	3/8	16	6	12	140
8d COMMON	1.75	24/16	7/16	16	6	12	170
				24	6	12	140





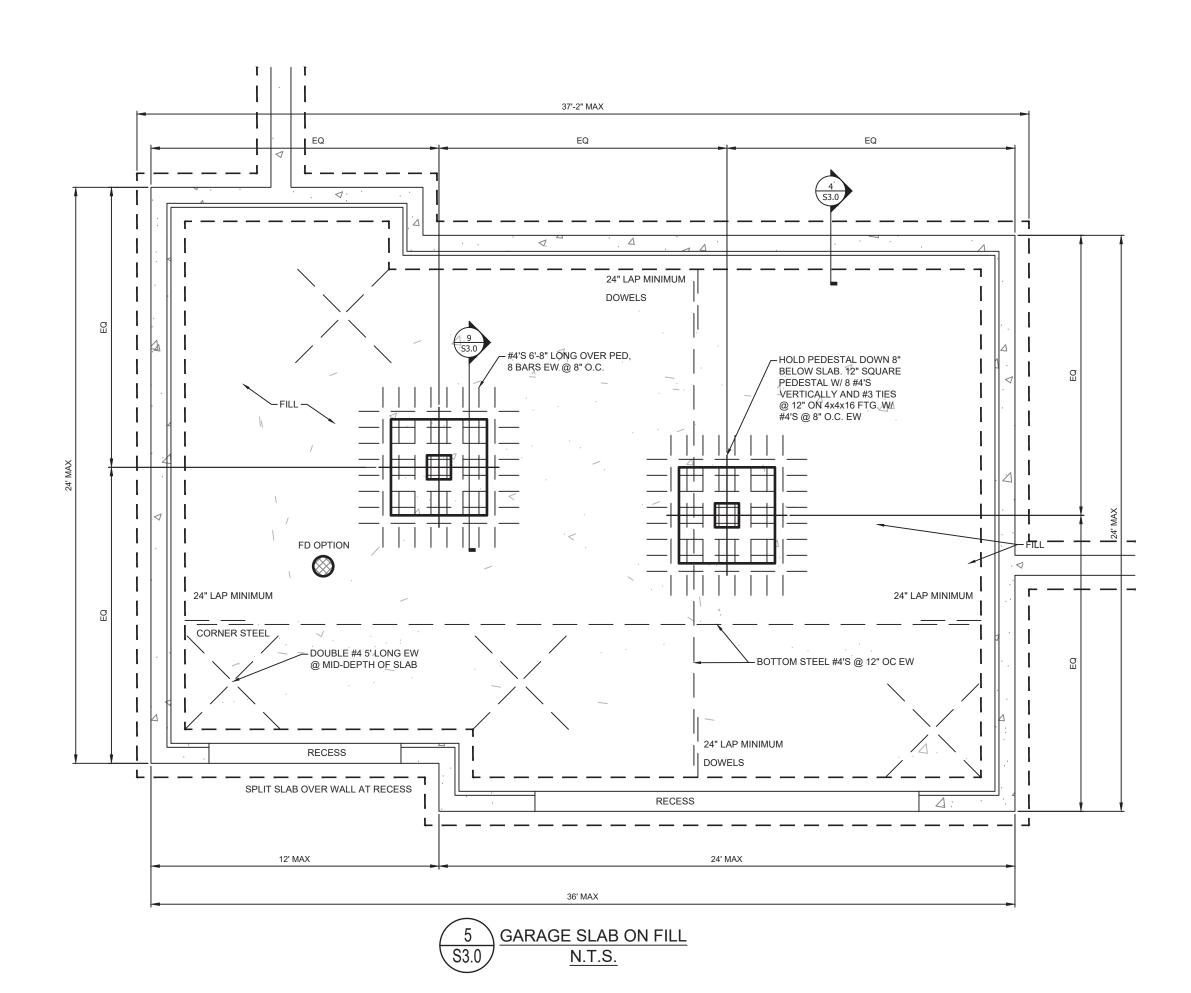


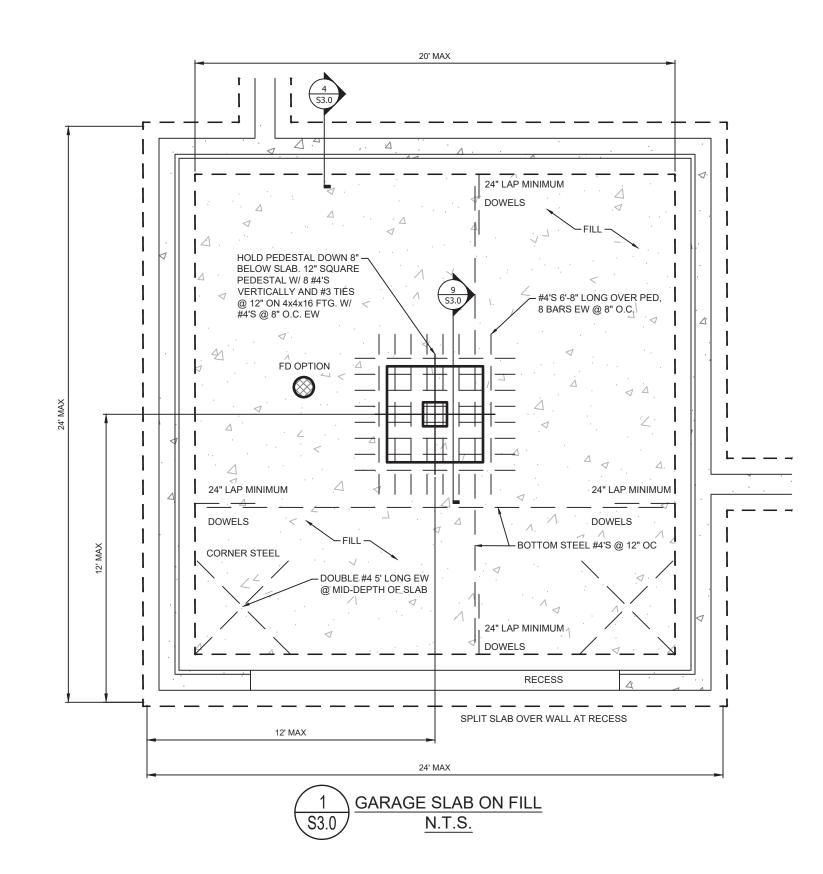


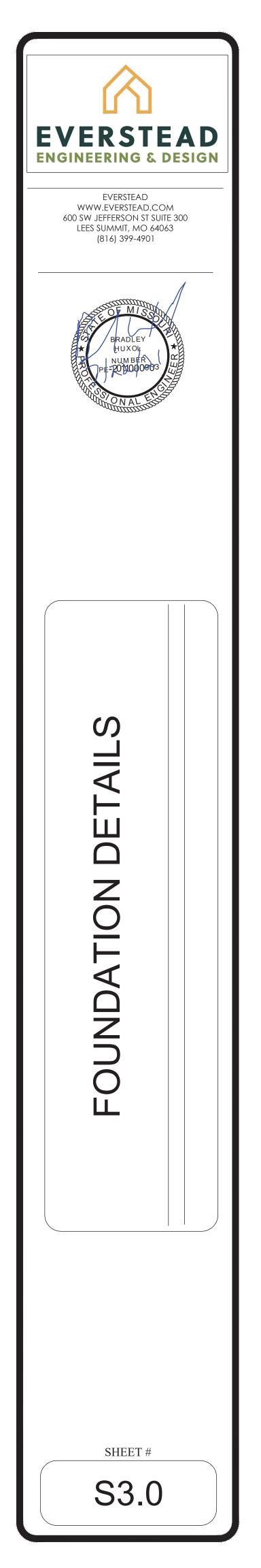


RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

LEE'S SUM







RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

10:44:08

LEE'S SUN)7/28/

- FOUNDATION WALL SHALL NOT EXCEED 9' HEIGHT.
- DEAD MAN SHALL BE A MAXIMUM 3'8" FROM TOP OF FOUNDATION WALL ELSE HELIX NOT PERMITTED.
- ALL CONCRETE SHALL BE REINFORCED WITH HELIX MICRO REBAR ALONG WITH ANY ADDITIONAL REBAR AS NOTED:
- 9.0 LB/CUBIC YARD DOSAGE OF HELIX 5-25.
- VERIFY DOSAGE AT FORM INSPECTION. SEE MIXING REQUIREMENTS ON THIS PAGE.
- MINIMUM 3000 PSI FOOTING COMPRESSIVE STRENGTH
- MINIMUM 3000 PSI WALL COMPRESSIVE CONCRETE STRENGTH.
- AIR ENTRAINED BETWEEN 5-7% OF CONCRETE VOLUME. GRADE 60 REINFORCING STEEL UNLESS OTHERWISE NOTED.
- LAP SPLICES 24" MINIMUM.
- ASSUMED 1500 PSF SOIL BEARING.
- WALL SHALL BE BACK-FILLED WITH CLEAN, LEAN CLAY, OR BETTER, LOW VOLUME CHANGE MATERIAL. ON-SITE MATERIAL MAY BE USED IF DEEMED ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

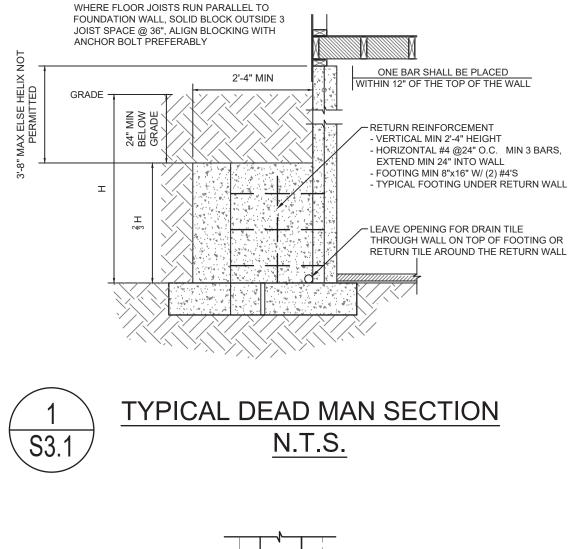
HELIX ALTERNATE DESIGN NOT VALID IF ANY ONE OF THE FOLLOWING CONDITIONS ARE MET:

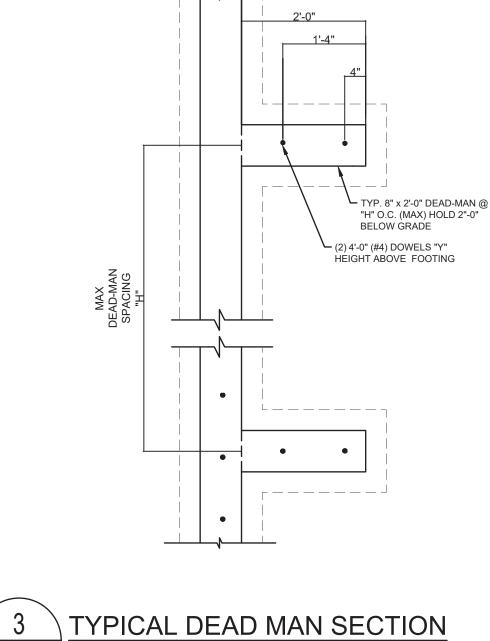
 NON-UNIFORM FOOTING SUPPORT (IE. CAST IN PLACE PIERS, PUSH PILES). DAYLIGHT WALLS EXCEEDING 6' TALL FOR A LENGTH GREATER THAN 6'.

HELIX DOSING INSTRUCTIONS:

MIXING SHOULD BE DONE ACCORDANCE WITH ASTM C94 AND THE MIXING INSTRUCTIONS BELOW. THE DOSAGES OF HELIX ADDED TO THE MIX SHOULD BE NOTED ON THE BATCH DOCUMENTATION IN ACCORDANCE WITH UNIFORM EVALUATION SERVICE ER 279 SECTION 5.15. VERIFIED USING PROCEDURE IN ER 279 APPENDIX A.

A SLUMP OF 125 MM OR 5" OR HIGHER WILL FACILITATE STRIKE OFF. A SLUMP OF LESS THAN 4" IS NOT RECOMMENDED AS THIS WILL PREVENT SURFACE SEGREGATION OF THE CEMENT AND FINES FROM THE AGGREGATE AND HELIX. SLUMP SHOULD BE MEASURED ON THE INITIAL LOAD AND ADJUSTMENTS MADE WITH A WATER REDUCER OR PLASTICIZER (NOT WATER).

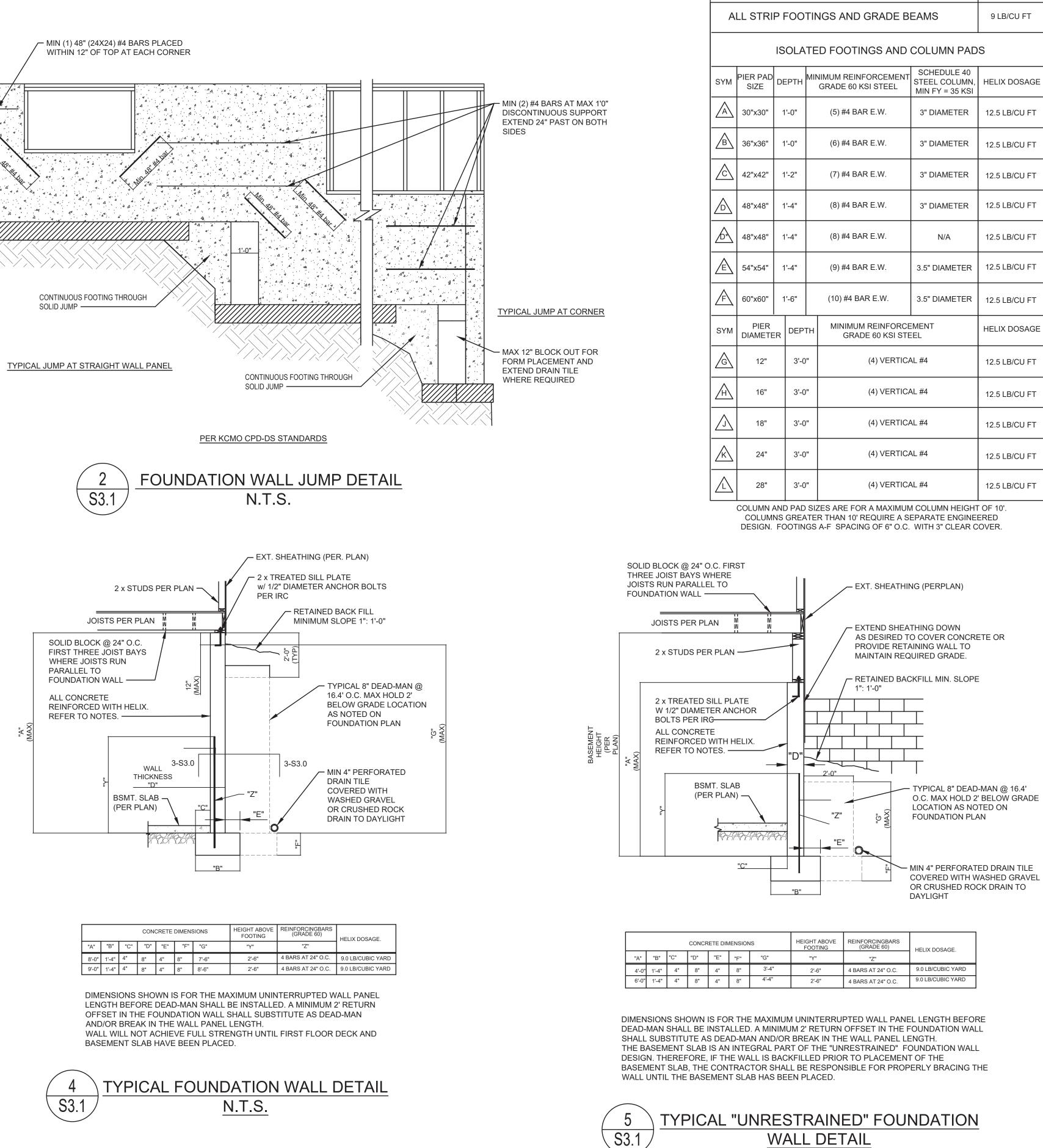




N.T.S.

S3.1





		HELIX DOSAGE							
1	LL STRI	9 LB/CU FT							
		IS	OLA	TE	D FOOTINGS AND	COLUMN PAD	S		
	PIER PAD SIZE	DE	EPTH		NIMUM REINFORCEMENT GRADE 60 KSI STEEL	SCHEDULE 40 STEEL COLUMN, MIN FY = 35 KSI	HELIX DOSAGE		
7	30"x30"	1	'-0"		(5) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT		
~	36"x36"	1	'-0"		(6) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT		
	42"x42"	1'-2"			(7) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT		
	48"x48"	1	'-4"		(8) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT		
	48"x48"	1	1'-4"		1'-4"		(8) #4 BAR E.W.	N/A	12.5 LB/CU FT
	54"x54"	1	'-4"		(9) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT		
	60"x60"	1	'-6"		(10) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT		
	PIER DIAMETE	PIER DIAMETER		ТΗ	MINIMUM REINFORCEMENT GRADE 60 KSI STEEL		HELIX DOSAGE		
	12" 3		3'-0	"	(4) VERTICAL #4		12.5 LB/CU FT		
	16" 3'-		3'-0	"	(4) VERTICAL #4		12.5 LB/CU FT		
	18" 3'-0"		"	(4) VERTICAL #4		12.5 LB/CU FT			
	24"	24" 3'-0"		"	(4) VERTICAL #4		12.5 LB/CU FT		
	28" 3'-0"		(4) VERTICA	(4) VERTICAL #4					

NSIONS		HEIGHT ABOVE FOOTING	REINFORCINGBARS (GRADE 60)	HELIX DOSAGE.	
"F"	"G"	"Y"	"Z"		
8"	3'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD	
8"	4'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD	

WALL DETAIL N.T.S



everstead www.everstead.com 600 SW JEFFERSON ST SUITE 300 LEES SUMMIT, MO 64063 (816) 399-4901



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SHEET #

S3.1