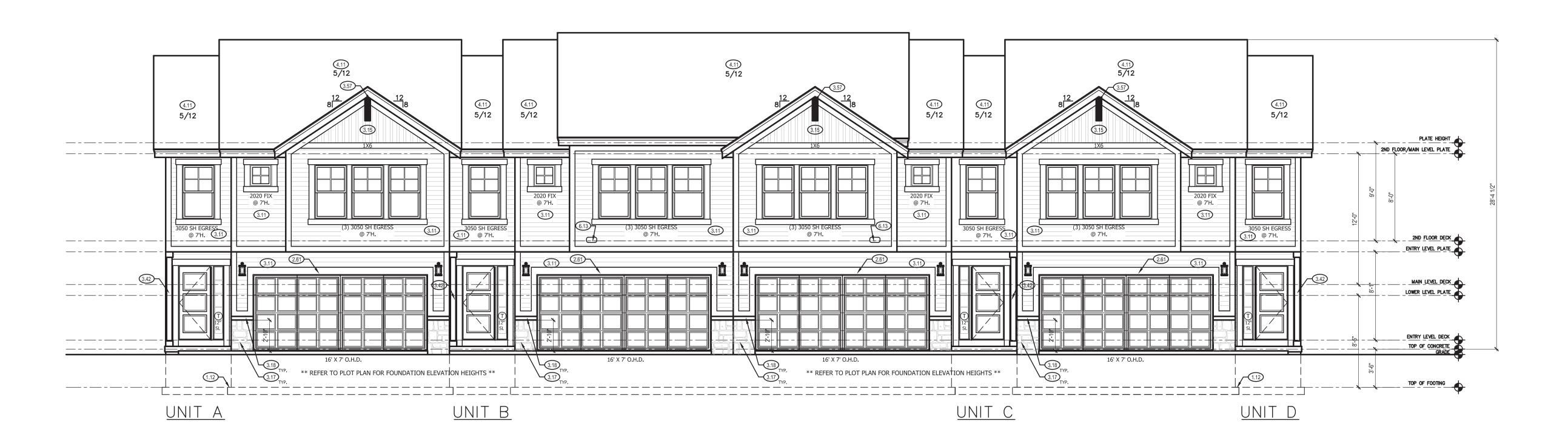
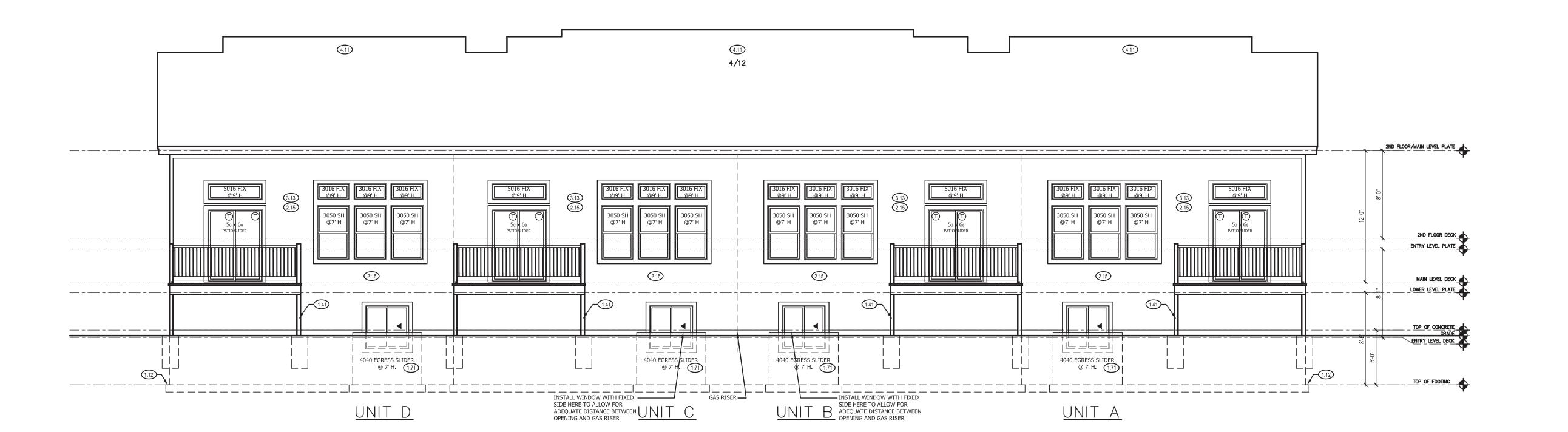
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** LEE'S SUMMIT, MISSOURI 03/21/2023 4:33:21







FRONT & REAR ELEVATION NOTES

- 1.12 TOP OF FOOTING DEPTH DETERMINED
- PER SITE.
- 1.41 4X4 CEDAR POST 2.15 ENTIRE REAR WALL TO BE DOUBLE WAL CONSTRUCTION. §" ZIP PANELS AS 1ST LAYER OF STRUCTURAL SHEATHING. 2.61 5/4"X8" TRIM. 1 1/2" ARCH ON GARAGE
- DOOR TRIM UNLESS NOTED OTHERWISE ON ELEVATION. 1 LAP SIDING WITH 5/4X6 TRIM AROUND
- DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. 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" ABOVE GRADE. 3.15 BOARD AND BATTEN
- 3.17 MANUFACTURED STONE VENEER 3.18 CAST STONE CAP
- 3.42 6X6 CEDAR POST. 1X6 TRIM AT BASE. 1X4 TRIM AT TOP.
- 3.57 26"X6" CEDAR BRACKET, RE: 3/A1 MINIMUM ROOFING COMPOSITION- 30 YF COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED
- 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.
- 6.13 FURNACE VENT.

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**EVERSTEAD** 

3741 NE TROON DRIVE SUITE 200

VERSION #:

V1.3

SHEET NUMBER:

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

12" —

#### **GENERAL NOTES**

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

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#### SHEET INDEX

- A1. FRONT AND REAR ELEVATION
- A2. LEFT AND RIGHT ELEVATION
- A3. FOUNDATION FLOOR PLAN
- A4. MAIN LEVEL PLAN
- A5. UPPER LEVEL PLAN

A6. ROOF PLAN

LEE'S SUMMIT, MO 64064 816-399-4901

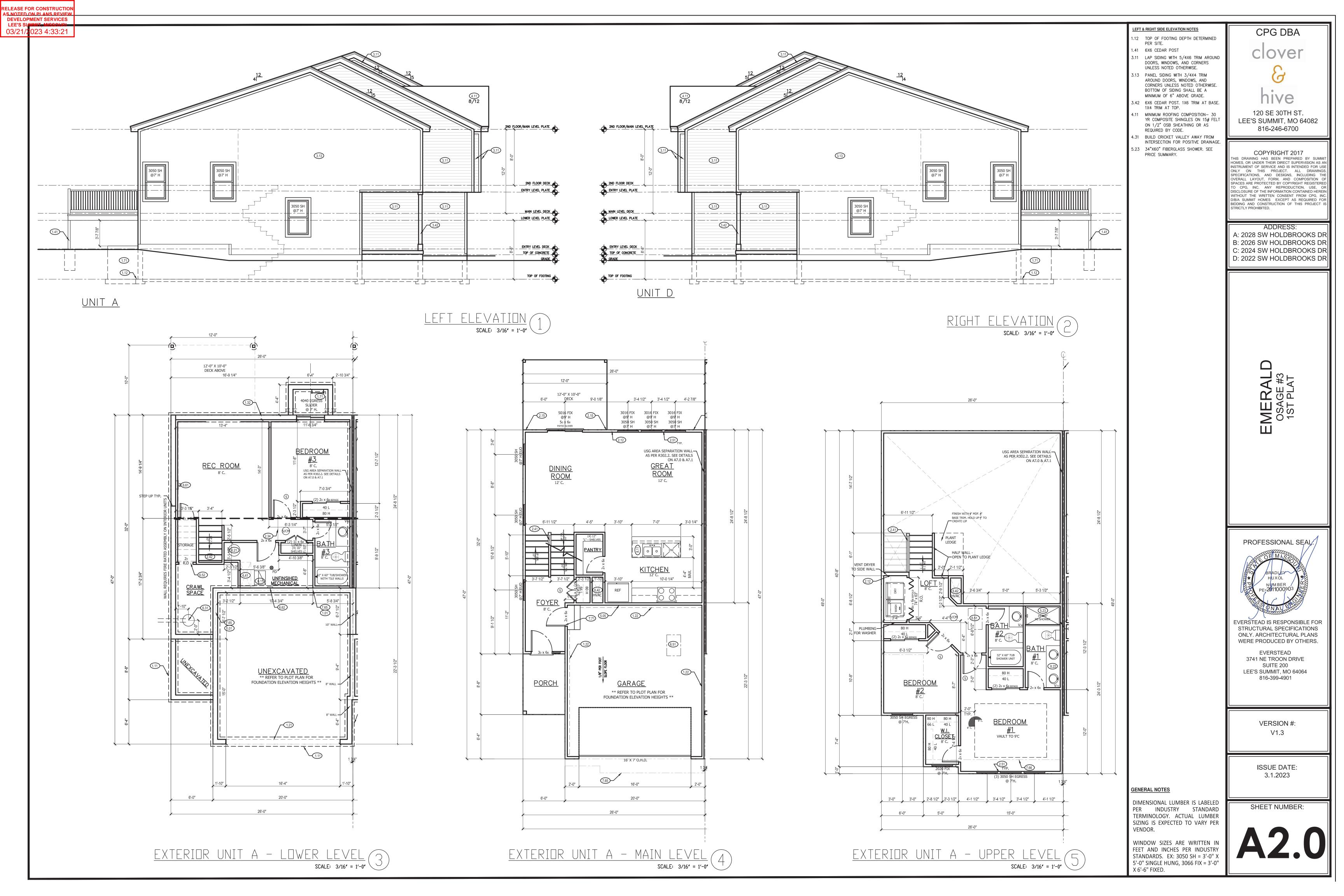
SQUAI	RE FOOTAGE T	ABLE			
FINISHE	D SQUARE FO	OTAGE			
	PER UNIT	TOTAL			
AIN LEVEL	692		2768		
PPER LEVEL	646		2584		
WER LEVEL	463		1852		
DTAL	1801		7204	ŀ	
UNFINISH	ED SOUARE I	FOOTAGI	F	Ш	

OTAL	1801	/20
UNFINISH	IED SQUARE I	OOTAGE
	PER UNIT	TOTAL
SARAGE	434	173
OWER LEVEL	63	2!
FOL	70	

SQUAILE I	COIAGE	
UNIT	TOTAL	ISSUE DATE:
434	1736	
63	252	3.1.2023

		REVISIONS	
NO.	DATE	DESCRIPTION	
1			
2			
3			





LEFT & RIGHT SIDE ELEVATION NOTES

- 1.12 TOP OF FOOTING DEPTH DETERMINED PER SITE.
- 1.41 4X4 CEDAR POST
- 3.11 LAP SIDING WITH 5/4X6 TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE.
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- 4.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE. 5.23 34"X60" FIBERGLASS SHOWER. SEE PRICE

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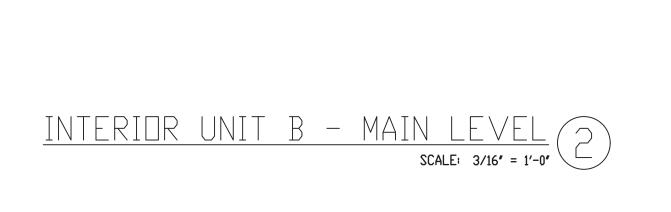
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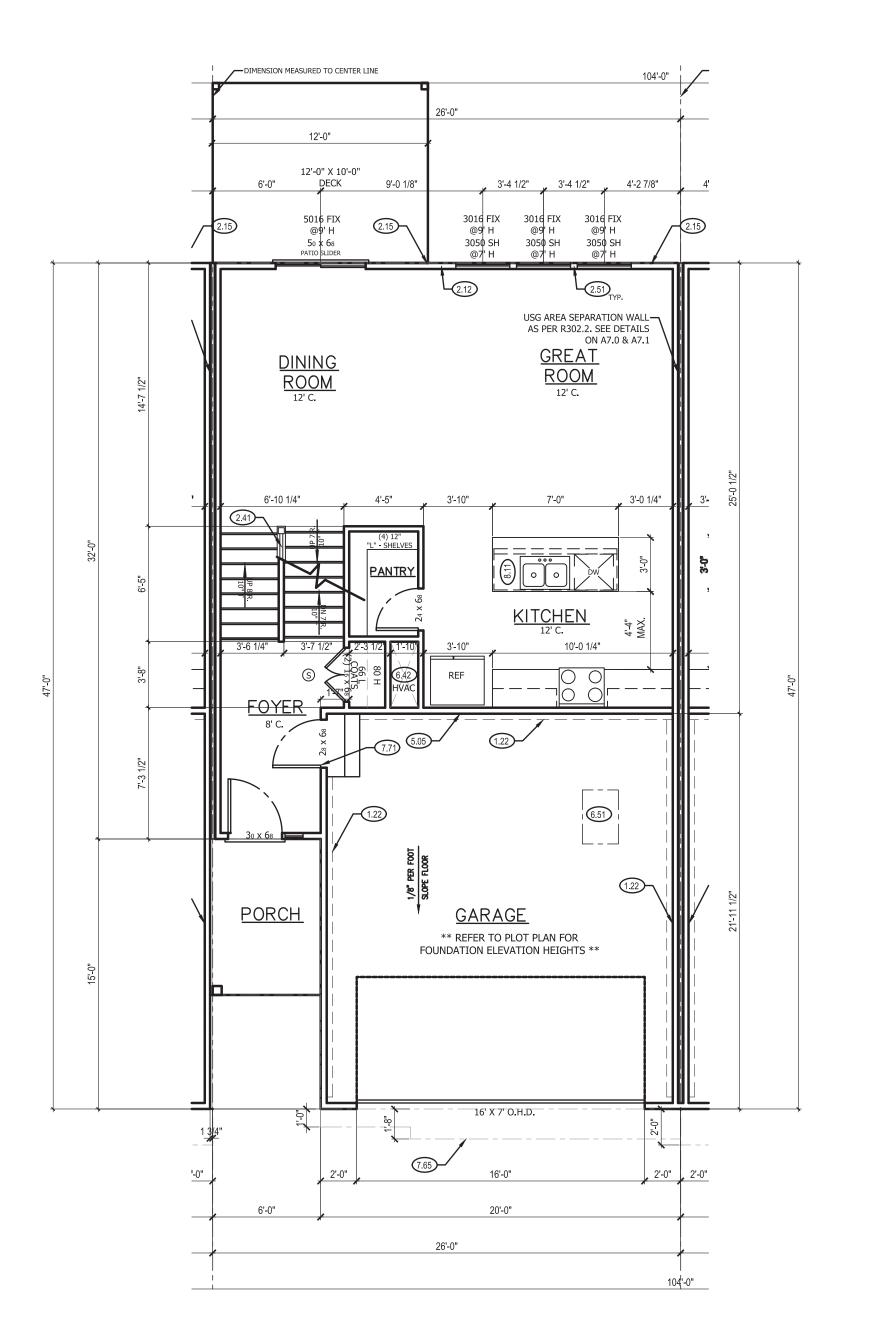
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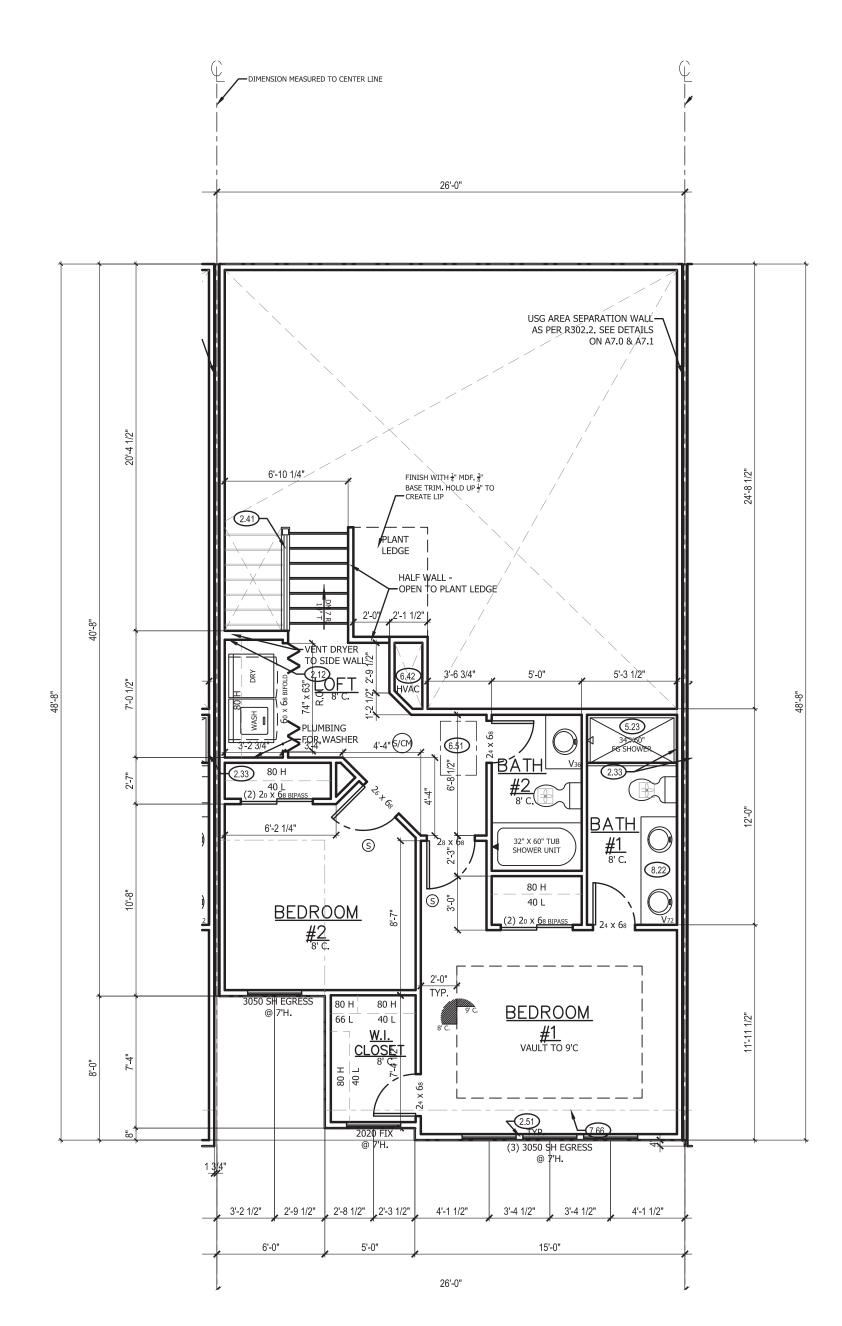
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INTERIOR UNIT B - UPPER LEVEL

INTERIOR UNIT B - LOWER LEVEL

UNEXCAVATED

\*\* REFER TO PLOT PLAN FOR
FOUNDATION ELEVATION HEIGHTS \*\*

DIMENSION MEASURED TO CENTER LINE

CARRY PIPE THROUGH FUR OUT ABOVE TOP

OF FOUNDATION

INSTALL WINDOW WITH FIXED SIDE HERE TO ALLOW FOR ADEQUATE DISTANCE BETWEEN OPENING AND GAS RISER

12'-0" X 10'-0" DECK ABOVE

4040 EGRESS

SLIDER @ 7' H.

USG AREA SEPARATION WALL AS PER R302.2. SEE DETAILS ON A7.0 & A7.1

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1/2" OSB SHEATHING OR AS REQUIRED

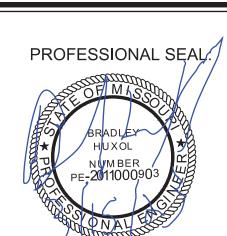
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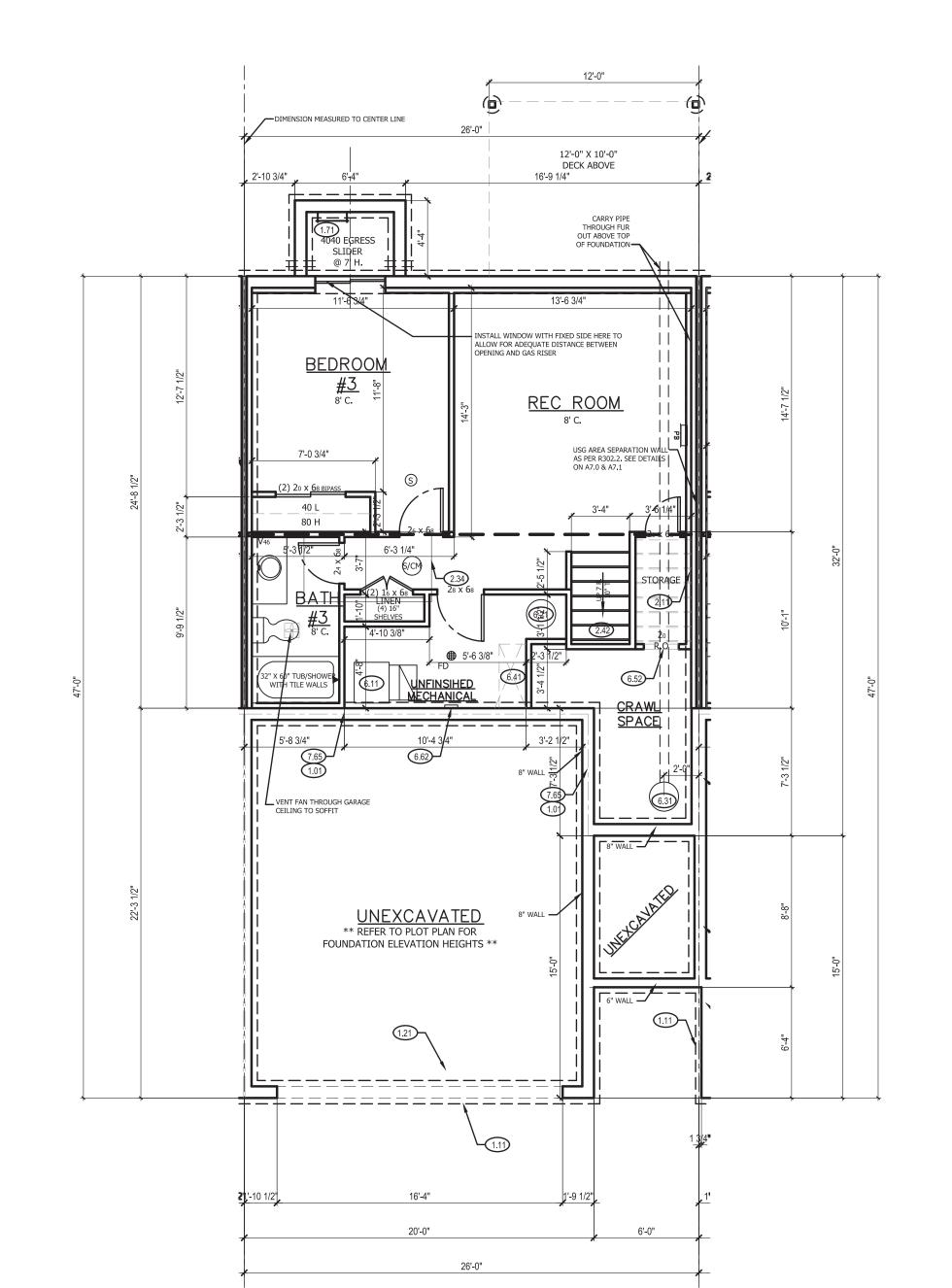
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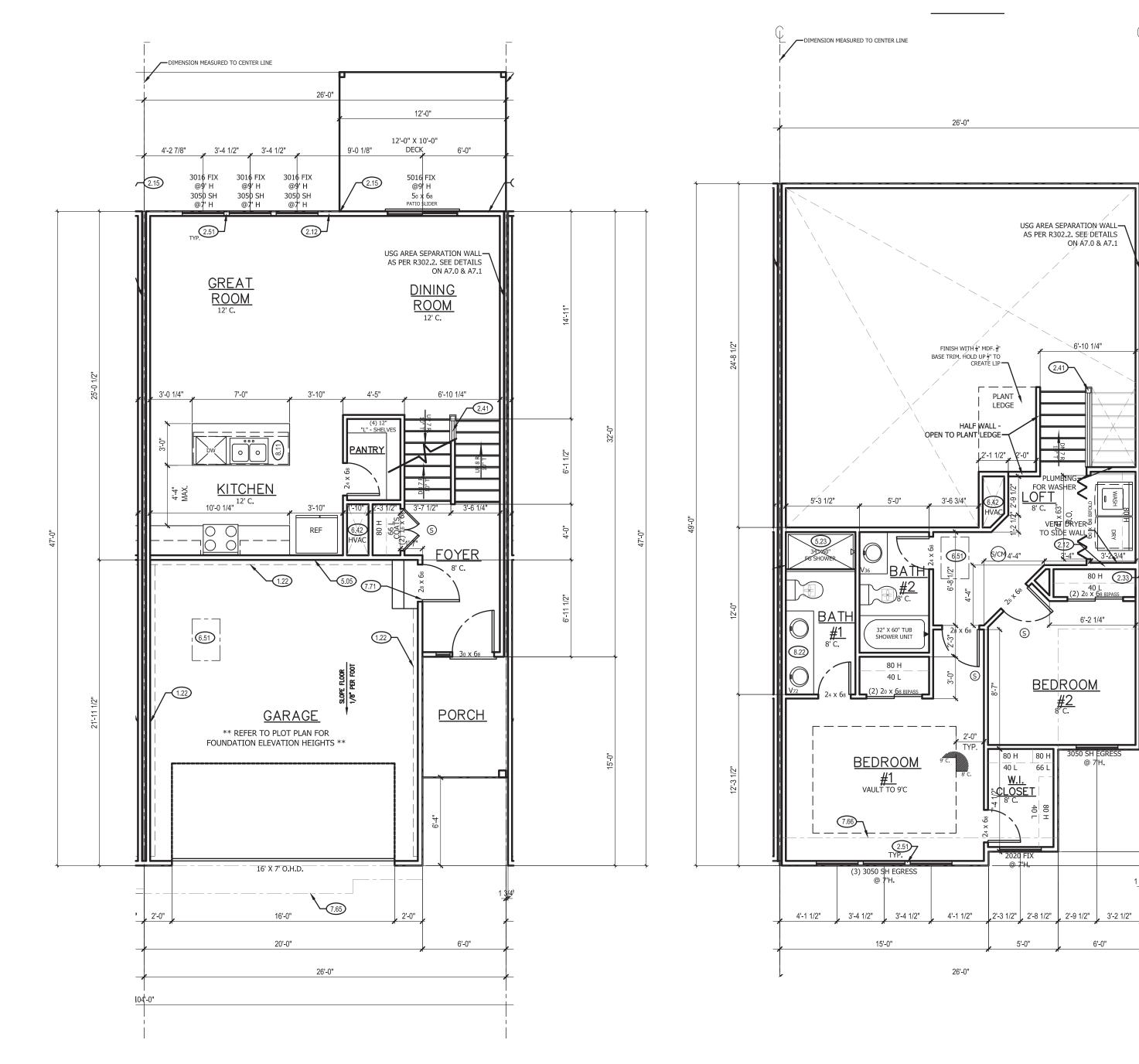
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INTERIOR UNIT C - MAIN LEVEL

SCALE: 3/16' = 1'-0'

VENDOR.

INTERIOR UNIT C - LOWER LEVEL (

USG AREA SEPARATION WALL

AS PER R302.2. SEE DETAILS

ON A7.0 & A7.1

6'-10 1/4"

<u>BEDROOM</u>

FINISH WITH 1 MDF. 3"

HALF WALL -OPEN TO PLANT LEDGE

LEDGE

BASE TRIM HOLD UP ½" TO CREATE LIP —

LEFT & RIGHT SIDE ELEVATION NOTES

- 1.12 TOP OF FOOTING DEPTH DETERMINED PE SITE.
- 1.41 4X4 CEDAR POST

SUMMARY.

- 3.11 LAP SIDING WITH 5/4X6 TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS
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1/2" OSB SHEATHING OR AS REQUIRED

120 SE 30TH ST.

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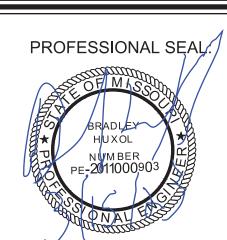
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VERSION #:

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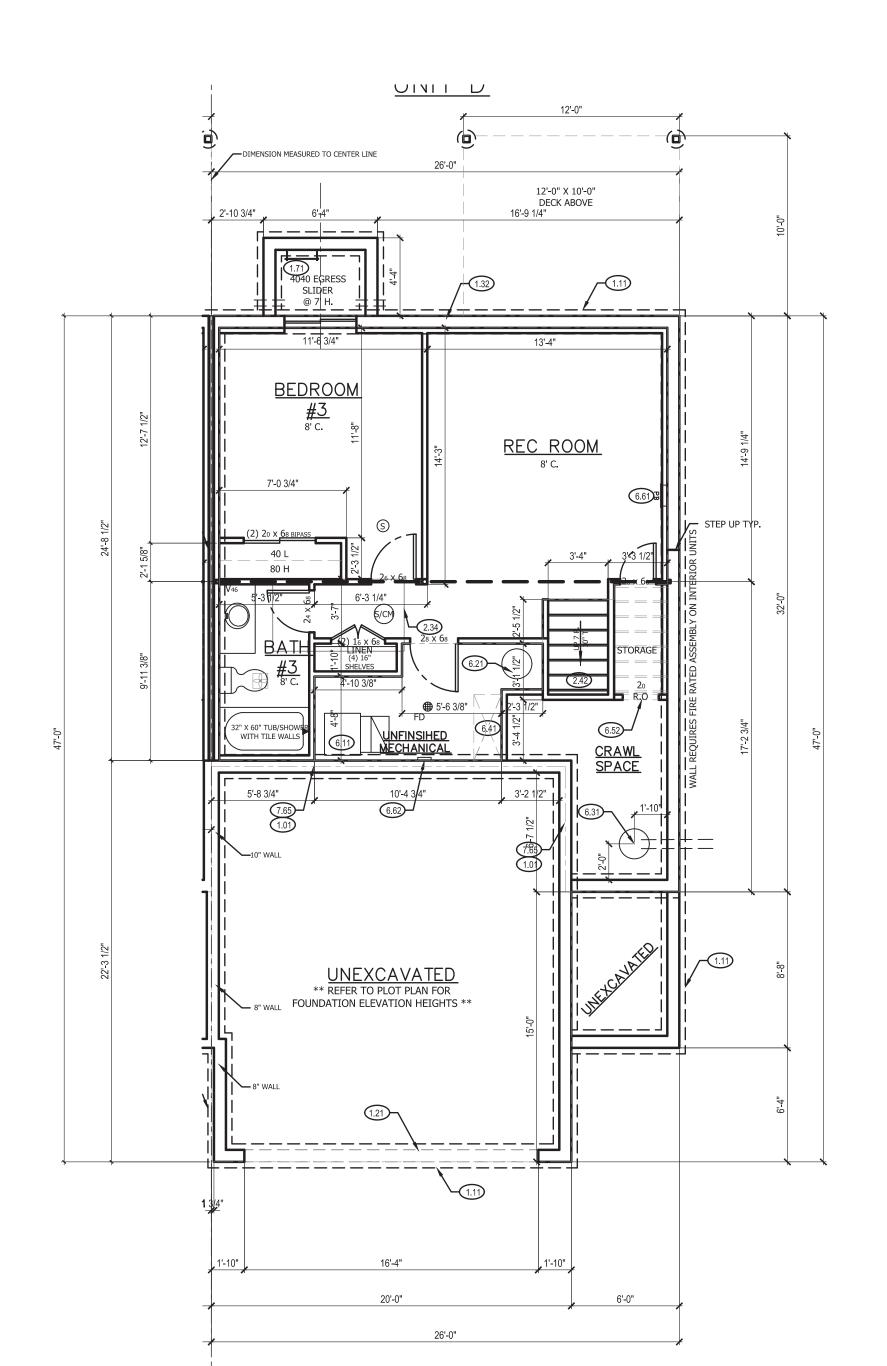
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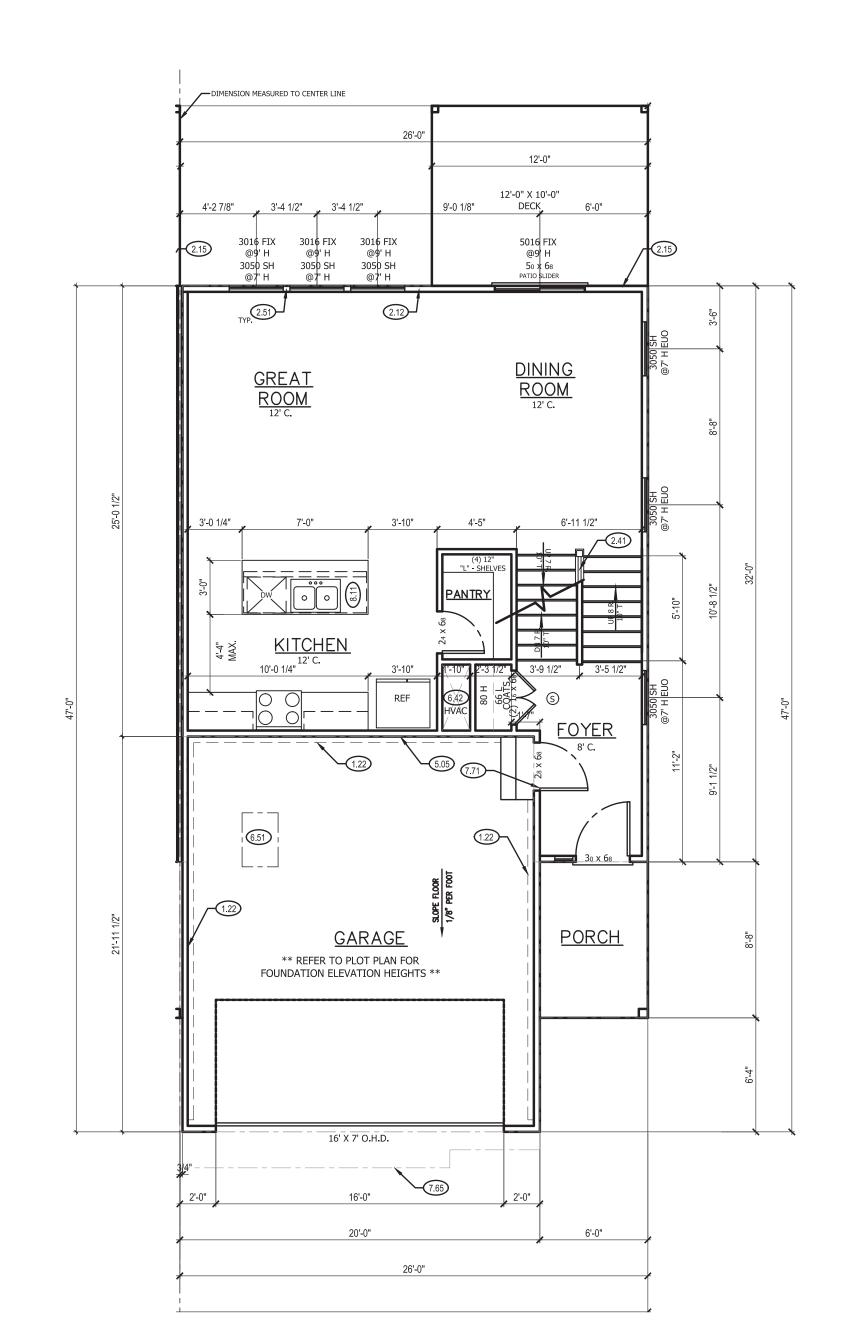
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EXTERIOR UNIT D - UPPER LEVEL







EXTERIOR UNIT D - MAIN LEVEL SCALE: 3/16" = 1'-0"

EXTERIOR UNIT D - LOWER LEVEL

FINISH WITH 1 MDF. 3" BASE TRIM. HOLD UP \frac{1}{2}" TO CREATE LIP ---

#1 VAULT TO 9'C

4'-1 1/2" 3'-4 1/2" 3'-4 1/2" 4'-1 1/2" 2'-3 1/2" 2'-8 1/2" 3'-0" 3'-0"

PLANT LEDGE

2.41

<u>BEDROOM</u>

VENDOR.

RELEASE FOR CONSTRUCTION **DEVELOPMENT SERVICES** 1023 4:33:22

> 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

NATERPROOFING 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

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 3' O.C. AND BE

24"

28"

(4) VERTICAL #4

(4) VERTICAL #4

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'.

COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.

EMBEDDED INTO THE CONCRETE A MINIMUM OF 7" ON LOAD BEARING WALLS.

Typical LCE4Z

#### DIMENSIONS MEASURED FROM CENTERLINE OF PARTY WALL ASSEMBLY.

- CRAWL SPACE NOTES:

   UNDER-FLOOR SPACE SHALL CONFORM TO 2018 IRC SECTION R408. • PER 2018 IRC R408.3 UNDER-FLOOR VENTILATION IS NOT REQUIRED WHERE:
- •• EXPOSED EARTH IS COVERED W/ CONTINUOUS CLASS 1 VAPOR RETARDER.
- JOINTS SHALL OVERLAP 6" AND SHALL BE SEALED OR TAPED.
   EDGES OF VAPOR RETARDER SHALL EXTEND 6" UP STEM WALL AND PERIMETER WALL INSULATED IN ACCORDANCE WITH SECTION N1103.3.1
- CONTINUOUSLY OPERATED MECHANICAL EXHAUST VENTILATION AT A RATE EQUAL TO 1 CUBIC FOOT PER MINUTE (0.47 L/s) FOR EACH 50
- SQUARE FEET OF CRAWL SPACE FLOOR AREA. UNDER-FLOOR ACCESS SHALL BE PROVIDED AND SHALL BE A MINIMUM OF 18"X24" OPENING.
  - SLEEVE THROUGH FOOTING. 5.41 HVAC CHASE ABOVE
    - .61 200 AMP ELECTRICAL PANEL. LOCATION TO BE DETERMINED ON SITE. .62 UFER GROUND- VERIFY LOCATION WITH

5.52 CRAWL SPACE ACCESS

PROJECT MANAGER. %.65 LINE OF FLOOR ABOVE

OUNDATION PLAN NOTES

01 HOLD SILL PLATE BACK 4"

.11 DOUBLE 2X4 STUD WALL

ISLAND ABOVE.

CONTINUOUS CONCRETE FOOTING

21 RECESS TOP OF FOUNDATION WALL

.32 2X6 STUD WALL WITH TREATED SILL

2.34 PROVIDE ADDITIONAL BRACING FOR

.42 FIRE RATED SHEETROCK UNDER STAIRS

DIRECT FURNACE. FUEL BURNING

APPLIANCES SHALL BE DIRECT VENTED

ELECTRICAL GFCI PROTECTION. PROVIDE

TO EXTERIOR FOR COMBUSTION AIR.

HOT WATER HEATER WITH THERMAL

EXPANSION CONTROL DEVICE

SUMP PIT AND PUMP. PROVIDE

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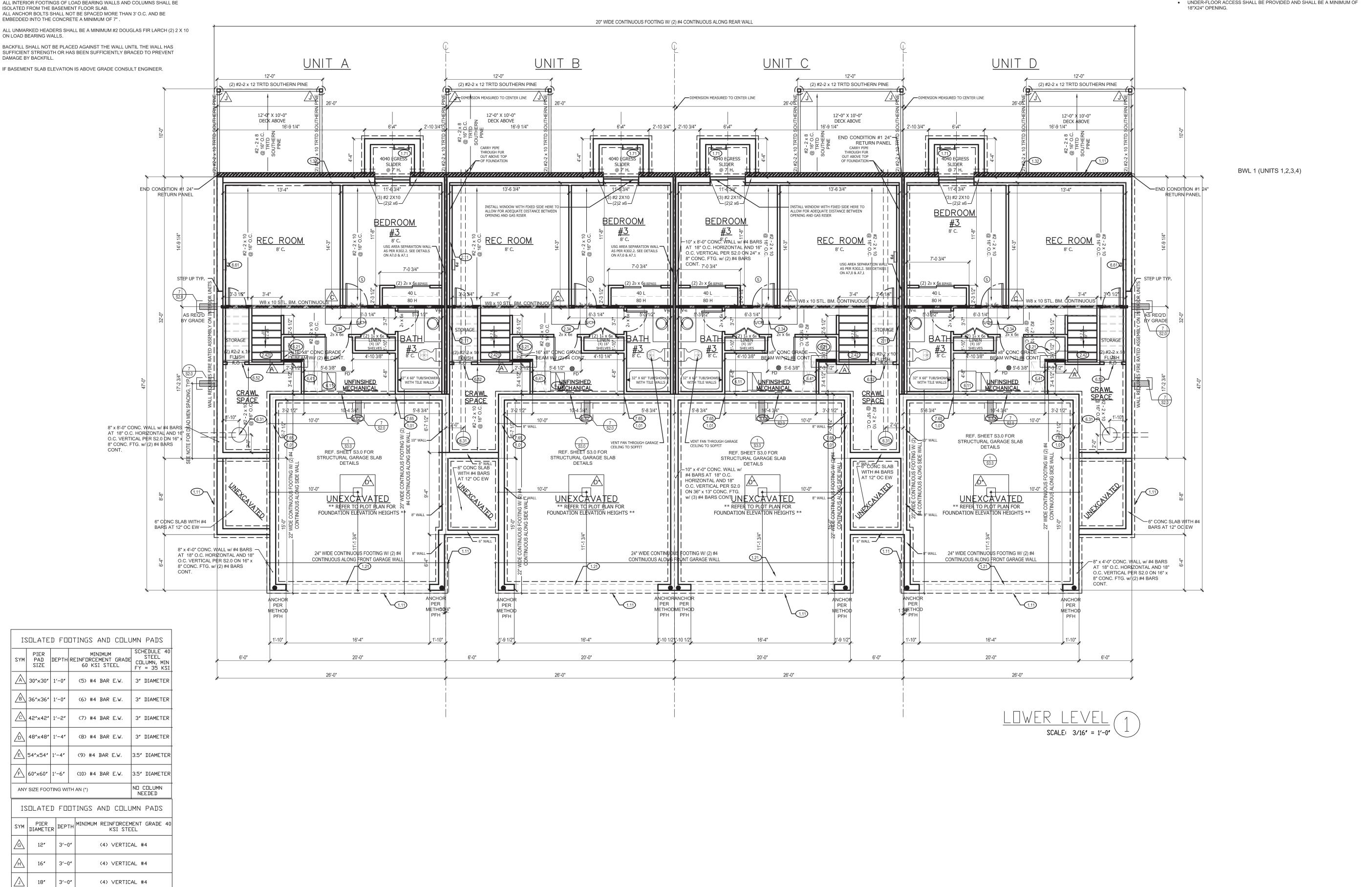
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DETAILS AND NOTES:

RC CHAPTER 11.

(UFER GROUND).

LOOR PLANS:

WALL IS REQUIRED.

IRC SECTION R602.10.

ACCORDANCE WITH IRC 507.

COMPLY WITH SECTION R612.2.

O DWELLING SEPARATION DOORS.

IRC R310.2.

ALL CONSTRUCTION SHALL CONFORM TO 2018

NTERNATIONAL RESIDENTIAL CODE OR ATTACHED

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2

DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING

BASEMENT EGRESS WINDOWS ARE TO COMPLY WITH

WINDOW FALL PROTECTION REQUIREMENTS TO

STAIRS SHALL COMPLY WITH IRC R311.7. THE

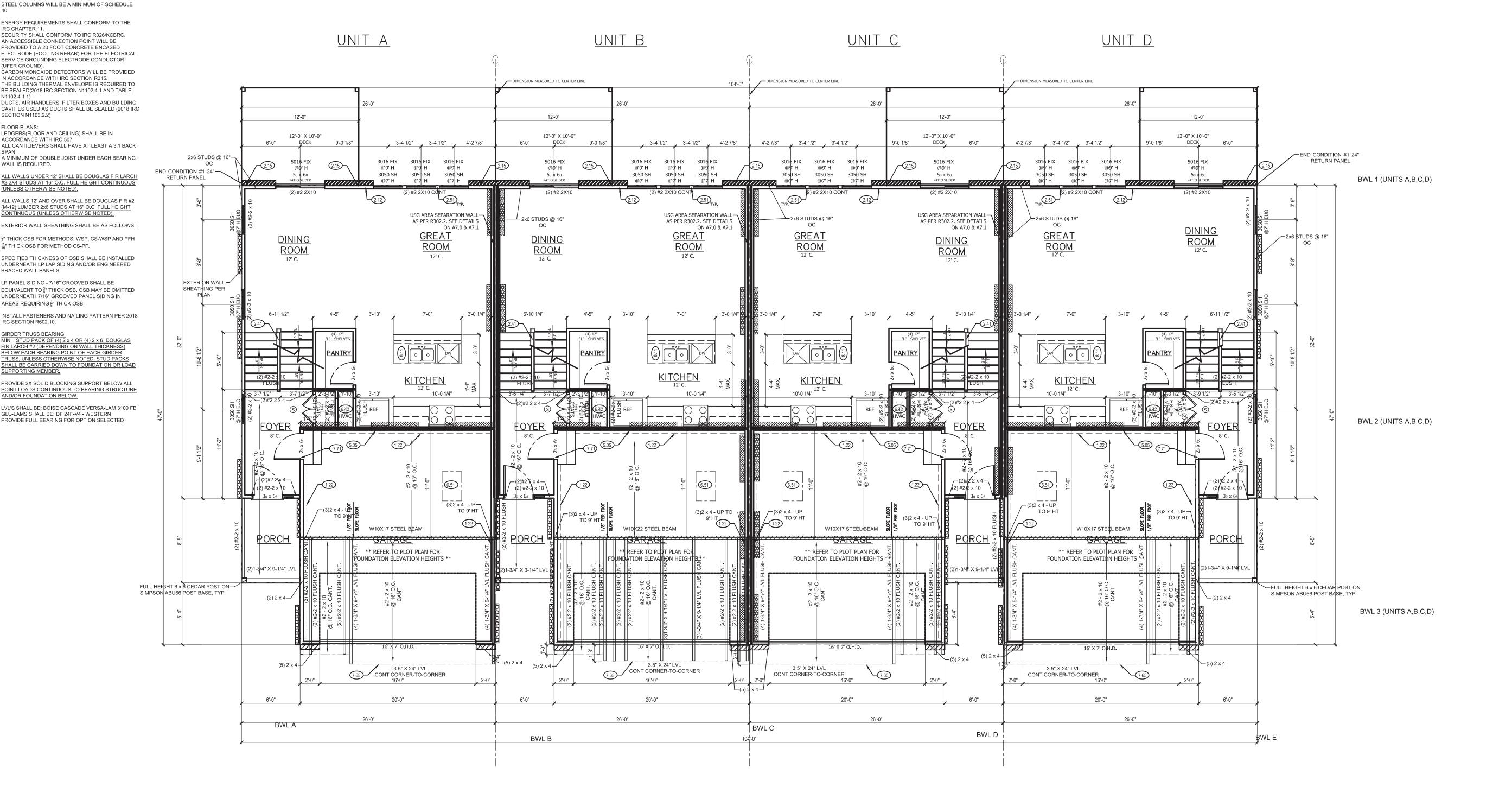
MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT

SELF CLOSING DEVICES ARE REQUIRED FOR GARAGE

EXCEED 7-3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 10" (IRC 2018 R311.7.5.1).

ENGINEER SPECIFICATIONS WHERE APPLICABLE.

#### DIMENSIONS MEASURED FROM CENTERLINE OF PARTY WALL ASSEMBLY.



BRACING METHODS

EXTERIOR BRACING CS-PF PER IRC R602.10 FOR CS-PF ABOVE: WOOD STRUCTURAL PANEL SHEATHING CONTINUOUS OVER BAND JOIST OR RIM JOIST WITH MINIMUM LAP OF 9-1/4". ATTACH SHEATHING WIMINIMUM 8D COMMON NAILS AT 3" O.C. AT TOP AND BOTTOM OF BAND/RIM JOIST

INTERIOR BRACING GB PER IRC R602.10

MINIMUM GB LENGTH PER 2018 IRC TABLE R602.10.5:

EXTERIOR BRACING CS-WSP PER IRC R602.10 KOKOKOKOKOKOK

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)										
IMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>b, e</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUĒ	FLOOR R-VALUE	BASEMENT° WALL R-VALUE	SLAB R-VALUE	CRAWL SPACE WALL R-VALUE
 XCEPT ARINE	.32	.55	.40	49	20 OR 13+5	8/13	19	10/13	10, 2 FT	10/13

#### MAIN FLOOR PLAN NOTES

- 1.22 EXPOSED TOP OF FOUNDATION WALL. 2.12 2X6 STUD WALL
- 2.15 ENTIRE REAR WALL TO BE DOUBLE WAI CONSTRUCTION. §" ZIP PANELS AS 1ST LAYER OF STRUCTURAL SHEATHING.
- 2.41 CURB STAIR SYSTEM WITH OPEN HANDRAILS
- 2.51 3 STUDS BETWEEN WINDOW UNITS 3.42 6X6 CEDAR POST. 1X6 TRIM AT BASE.
- 1X4 TRIM AT TOP. 5.05 HOSE BIBB
- 6.42 HVAC FLOOR OPENING, HEADER OFF FLOOR JOISTS AS REQUIRED. BUMP TRUSSES AS NECESSARY FOR HVAC
- 3.51 1'-10"X3'-0" MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC
- 7.65 LINE OF FLOOR ABOVE 20 MINUTE FIRE RATED SOLID CORE WIT SELF-CLOSING HINGES
- 24" CABINET + 12" OVERHANG FLAT ISLAND. VERIFY LOCATION WITH PERSONAL BUILDER.

## CPG DBA

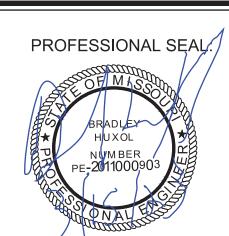
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WINDOW SIZES ARE WRITTEN FEET AND INCHES PER INDUSTR' STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

SHEET NUMBER:

### DIMENSIONS MEASURED FROM CENTERLINE OF PARTY WALL ASSEMBLY INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

unit a

FINISH WITH 1 MDF. 3"

HALF WALL

OPEN TO PLANTILEDGE-

**BEDROOM** 

VAULT TO 9'C

EXTEND STUDS THROUGH

3'-4 1/2" 3'-4 1/2"

LEND CONDITION #1 24"

RETURN PANEL

PLANT \

(2) #2-2 x 12

CONT. EXTEND ONE STU

END CONDITION #2 800#

MIN TENSION STRAP

BWL A (UNIT D)

BWL B (UNIT D)

LEDGE

DIMENSION MEASURED TO CENTER LINE

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 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)

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

EXTERIOR WALL SHEATHING SHALL BE AS FOLLOWS: 3" THICK OSB FOR METHODS: WSP, CS-WSP AND PFH  $\frac{7}{16}$ " THICK OSB FOR METHOD CS-PF.

SPECIFIED THICKNESS OF OSB SHALL BE INSTALLED UNDERNEATH LP LAP SIDING AND/OR ENGINEERED BRACED WALL PANELS.

LP PANEL SIDING - 7/16" GROOVED SHALL BE EQUIVALENT TO 3" THICK OSB. OSB MAY BE OMITTED UNDERNEATH 7/16" GROOVED PANEL SIDING IN AREAS REQUIRING  $\frac{3}{8}$ " THICK OSB. INSTALL FASTENERS AND NAILING PATTERN PER 2018 IRC SECTION R602.10.

PROVIDE 2X SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR LVL'S SHALL BE: BOISE CASCADE VERSA-LAM 3100 FB

GLU-LAMS SHALL BE: DF 24F-V4 - WESTERN PROVIDE FULL BEARING FOR OPTION SELECTED

BWL 1 (UNITS A,B,C,D)

BWL 3 (UNITS A,B,C,D)

SCALE: 3/16" = 1'-0"

BWL 2 (UNITS A,B,C,D)

JPPER FLOOR PLAN NOTES

- 2.11 DOUBLE 2X4 STUD WALL
- 2.12 2X6 STUD WALL
- 2.13 PONY WALL
- CONSTRUCTION. 5" ZIP PANELS AS 1ST LAYER OF STRUCTURAL SHEATHING. INSTALL FULL WALL HEIGHT THERMOPLY INSULATION BEFORE FRAMING SECONDARY 2X4 WALL FOR PLUMBING

2.15 ENTIRE REAR WALL TO BE DOUBLE WAL

- 3 STUDS BETWEEN WINDOW UNITS 5.23 34"X60" FIBERGLASS SHOWER. SEE PRICE SUMMARY.
- 5.42 HVAC BUMP TRUSSES AS NECESSAR' FOR HVAC ACCESS 5.51 1'-10"X3'-0" MINIMUM ATTIC ACCESS
- WITH 3/4" BACKER BOARD AND 2 LATCHES. BUMP TRUSSES FOR ATTIC

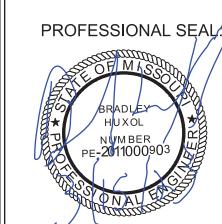
7.66 LINE OF FLOOR BELOW 8.22 CONTINUOUS FLAT VANITY

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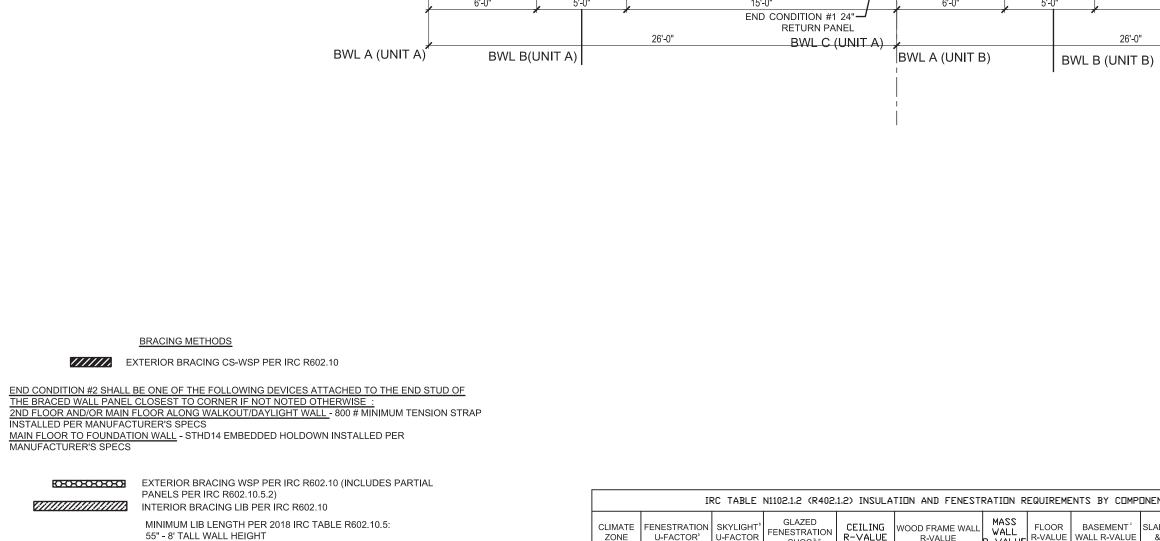
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SHEET NUMBER:



<u>UNIT A</u>

FINISH WITH 1 MDF. 3"

VENT DRYER

EXTERIOR WALL — SHEATHING PER PLAN

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)

**BEDROOM** 

(2) #2-2 x 12

CONT. ÈXTEND ONE STUD

END CONDITION #2 800#

MIN TENSION STRAP

USG AREA SEPARATION WALL— AS PER R302.2. SEE DETAILS

**BEDROOM** 

VAULT TO 9'C

S.T. BEARING

EXTEND STUDS THROUGH

TOP PLATE AT GT BRG 3'-4 1/2" 3'-4 1/2"

ON A7.0 & A7.1

IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)										
CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKYLIGHT <sup>b</sup> U-FACTOR		CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUĒ	FLOOR R-VALUE	BASEMENT° WALL R-VALUE	SLAB <sup>®</sup> R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 OR 13+5	8/13	19	10/13	10, 2 FT	10/13

<u>UNIT B</u>

FINISH WITH 1/4" MDF. 3/8"

OPEN TO PLANT LEDGE

HALF WALL -

USG AREA SEPARATION WALL AS PER R302.2. SEE DETAILS
ON A7.0 & A7.1

<u>BEDROOM</u>

@ **†**'H.

(2) #2-2 x 10 CONTINUOUS

3'-4 1/2" 3'-4 1/2"

3'-4 1/2" 4'-1 1/2" END CONDITION #1 24"

RETURN PANEL

BWL C (UNIT B) BWL C (UNIT C)

DIMENSION MEASURED TO CENTER LINE

<u>BEDROOM</u>

MIN TENSION STRAP

XTEND ONE STUD

UNIT B

FINISH WITH 1 MDF. 3"

HALF WALL

OPEN TO PLANT LEDGE-

<u>BEDROOM</u>

-G.T. BEARING

END CONDITION #1 24"

RETURN PANEL 15'-0"

PLATE AT GT BRG

EXTEND STUDS THROUGH TOP

4'-1 1/2" 3'-4 1/2" 4'-1 1/2"

LEDGE

BASE TRIM. HOLD UP ½" TO CREATE LIP

USG AREA SEPARATION WALL— AS PER R302.2. SEE DETAILS

**BEDROOM** 

(2) #2-2 x 12

CONT. EXTEND ONE ST

HEND CONDITION #2 800#

2'-3 1/2" | 2'-8 1/2" | 2'-9 1/2" | 3'-2 1/2"

BWL B (UNIT C

MIN TENSION STRAP

BWL A (UNIT C) BWL C(UNIT D)

ON Á7.0 & A7.1

DIMENSION MEASURED TO CENTER LINE

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES 03/21/2023 4:33:23 TRUSS ROOF NOTES: (BY OTHERS)

1) DESIGNED FOR LIGHT ROOF COVERING TOP CHORD: LIVE LOAD/SNOW LOAD (PSF): 25 DEAD LOAD (PSF): BOTTOM CHORD: DEAD LOAD(PSF): 2) ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS SHALL BE MIN. (2) #2 2 x 10 UNLESS OTHERWISE NOTED. 3) 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

<u>UNIT A</u>

= INTERIOR LOAD BEARING WALL

ROOF IS DESIGNED FOR 20 PSF SNOW LOAD.

IRC SECTION R802, R802.3, R802.3.1, R802.11.

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

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

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.

ROOF PLAN NOTES

.11 MINIMUM ROOFING COMPOSITION— 30 YR COMPOSITE SHINGLES ON 15# FELT ON 1/2" OSB SHEATHING OR AS REQUIRED BY CODE.

H.31 BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE.

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ISSUE DATE: 3.1.2023

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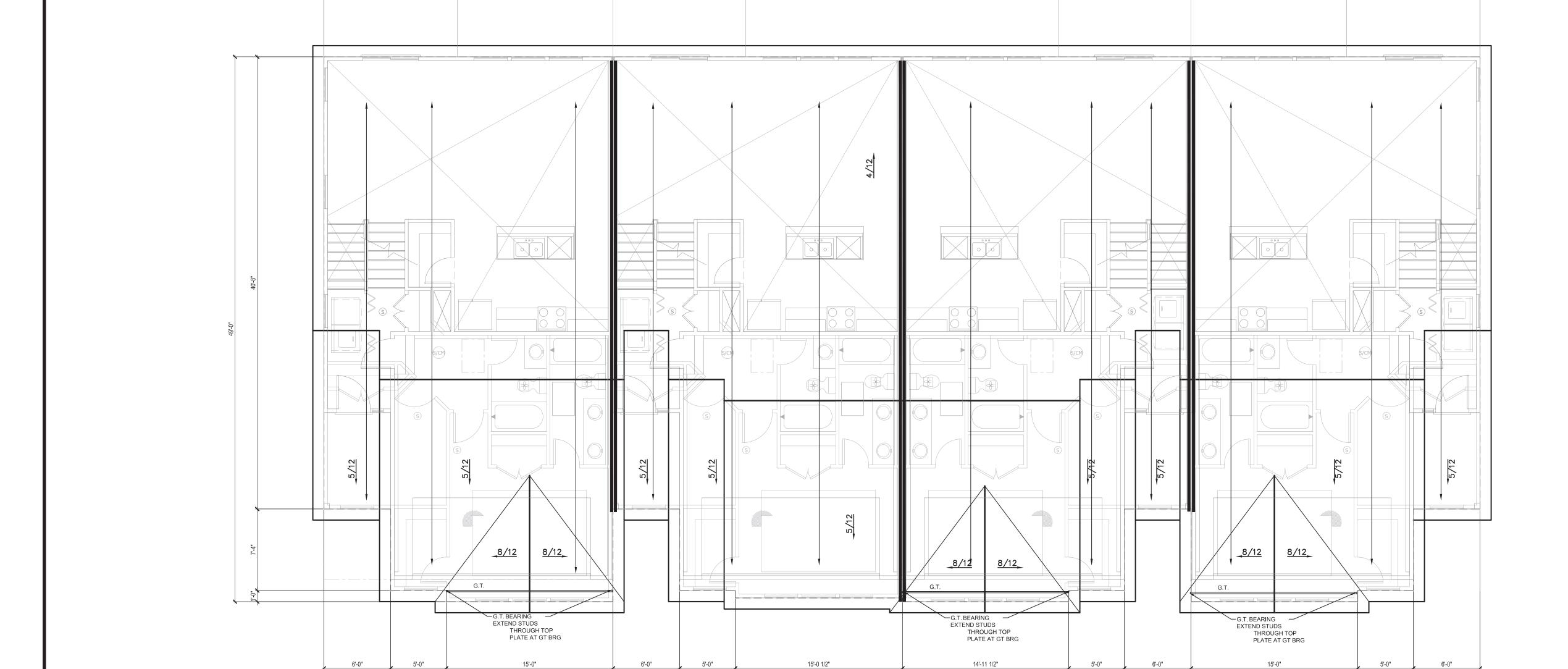
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SCALE: 3/16" = 1'-0"



104'-0"

<u>UNIT B</u>

<u>UNIT</u> C

<u>UNIT D</u>

RELEASE FOR CONSTRUCTION **DEVELOPMENT SERVICES** 03/21/2023 4:33:23

**Runner Installation** 

ASSEMBLY OPTIONS: GYPSUM BOARD: ONE LAYER 1/2" THICK GYPSUM BOARD (USG SHEETROCK BRAND GYPSUM PANELS) WOOD STUDS: 2x4 WOOD STUDS, 24" O.C. INSULATION: MIN. 3" GLASS FIBER BATT INSULATION IN CAVITY AIR SPACE: 3/4" AIR SPACE STEEL STUDS: 2" H-STUD, 24" O.C. GYPSUM BOARD: TWO LAYER 1" THICK BY NOM. 2' WIDE GYPSUM LINER PANELS FRICTION FIT (UL TYPE SLX) AIR SPACE: 3/4" AIR SPACE WOOD STUDS: UL DESIGN NO. U336 B 2x4 WOOD STUDS, 24" O.C. INSULATION: MIN. 3" GLASS FIBER BATT INSULATION IN CAVITY FIRE RATING: GYPSUM BOARD: ONE LAYER 1/2" THICK GYPSUM BOARD (USG SHEETROCK BRAND GYPSUM PANELS) SOUND TEST: RAL-TL88-350 SYSTEM THICKNESS: 11 1/2" 2' - 0" 2'-0" [610 mm] [610 mm] 2' - 0"

Typical Area Separation Wall 2 x 4 stud framing SHEETROCK® brand gypsum panels (as required) 1" Sheetrock® brand gypsum liner panels, or SHEETROCK® brand Mold Tough® liner panels or Sheetrock® brand glass-mat liner panels sound batts min. 3/4" airspace between 2" area separation wall and wood framing 2" H-studs 24" o.c. 2" USG C-runners USG aluminum breakaway clip fire blocking as required fire blocking as required

# ARE/ **NSG**

PROFESSIONAL SEAL.

CPG DBA

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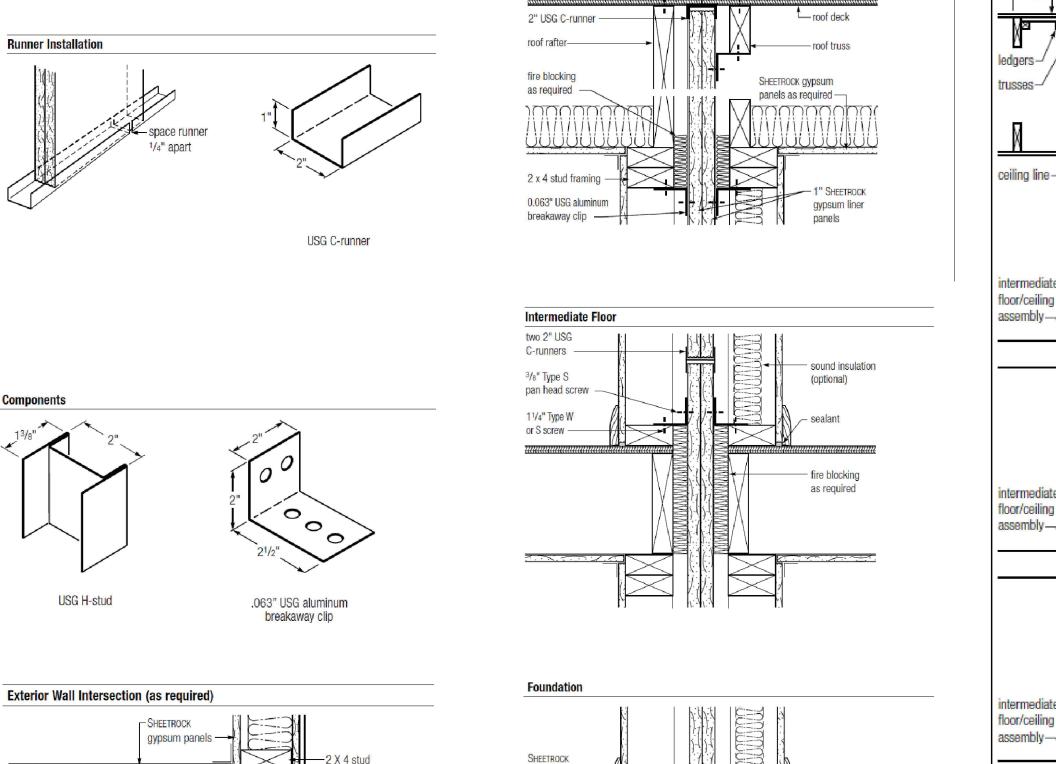
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SHEET NUMBER:



acoustical

sealant ----

power-driven fastener 24" o.c.

liner panels

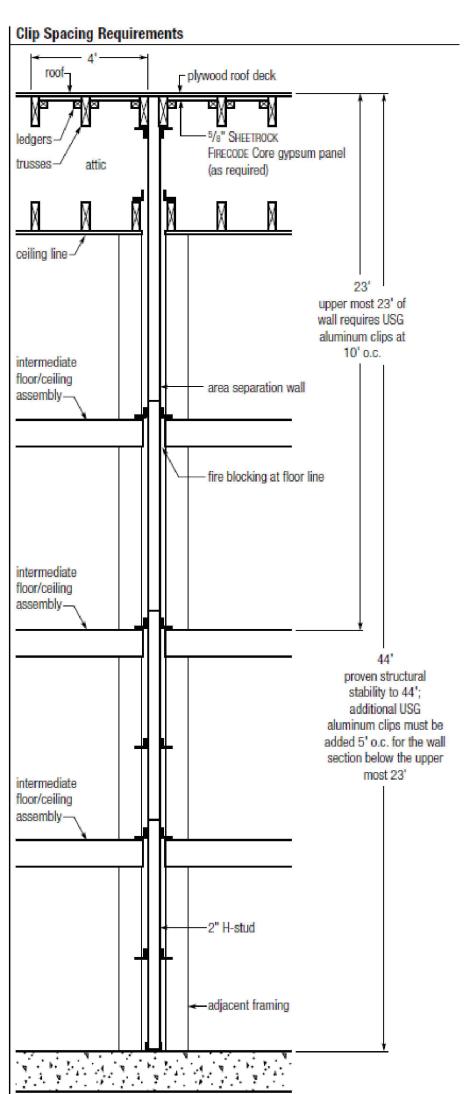
-weather barrier

2" USG C-runners

—exterior sheathing

exterior cladding

Intersection at Roof

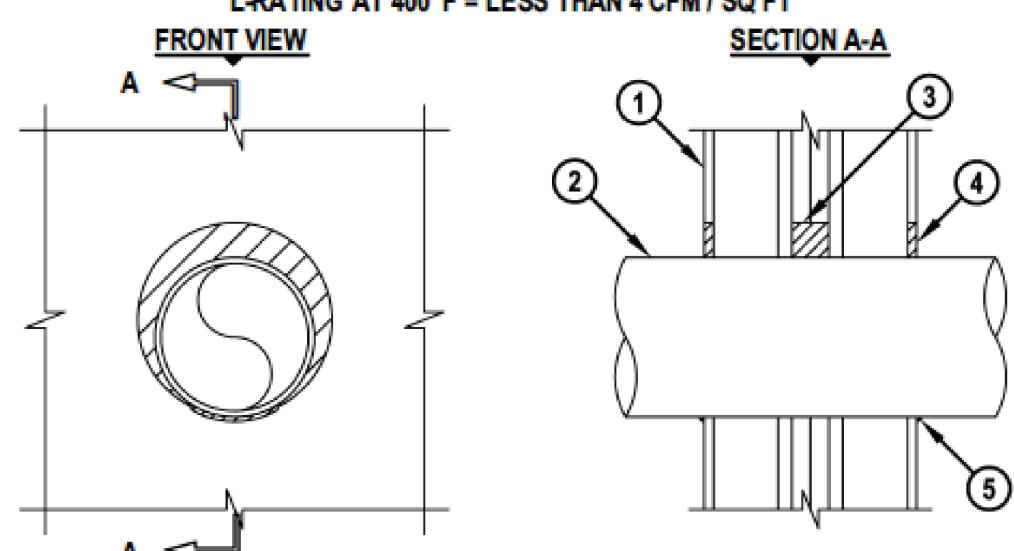


#### UL/cUL SYSTEM NO. W-L-1406

#### METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 2-HR. T-RATING = 0-HR.

L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT L-RATING AT 400°F = LESS THAN 4 CFM / SQ FT



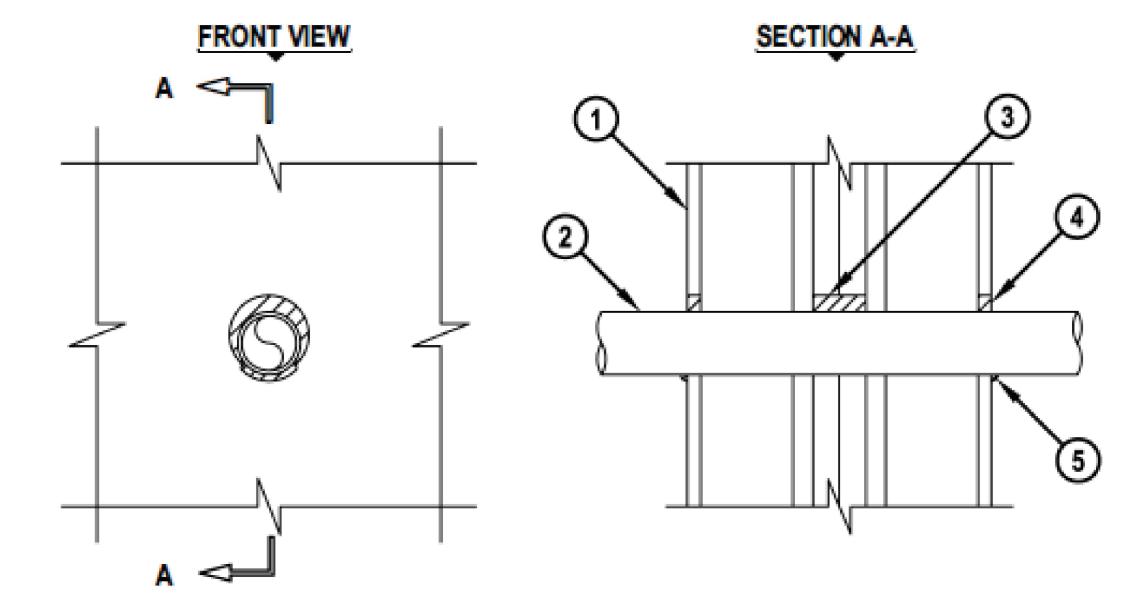
- 1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 SERIES) (2-HR. FIRE-RATING) CONSISTING OF THE FOLLOWING:
  - A. NOMINAL 2 x 4 STUDS SPACED MAXIMUM 24" OC.
  - B. STEEL "H" SHAPED STUDS SPACED MAXIMUM 24" OC.
  - C. TWO LAYERS 1" GYPSUM SHAFT LINER PANELS.
- D. MINIMUM 1/2" THICK GYPSUM WALLBOARD.
-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

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.



- 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).
  - B. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM ONLY).
  - 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".

- ANNULAR SPACE = MINIMUM 0", MAXIMUM 5/8".
- CLOSED OR VENTED PIPING SYSTEM (PVC, RNC = SCHEDULE 40; CPVC = SDR 13.5).

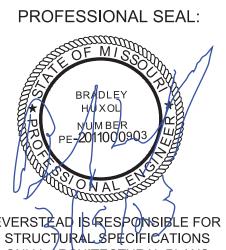
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ONLY, ARCHITECTURAL PLANS

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#### 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

IF DISCREPANCIES ARE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION SHALL APPLY.

#### **LOADING**

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 I	INCLUDED IN	15 PSF DEAD LOAD)

LIVE		
ROOF LIVE LOAD FLOOR LIVE LOAD GARAGE	20 PSF 40 PSF 50 PSF	(HABITABLE)
STORAGE GUARDRAIL	20 PSF	(UN-INHABITABLE)
CONTINUOUS LINEAR MAXIMUM POINTLOAD	50 PLF 200 LBS	
SNOW		
GROUND SNOW LOAD	20 PSF	
WIND		
ULTIMATE DESIGN WIND SPEED VELOCITY	115 MPH	

#### SOIL AND SITE ASSUMPTIONS:

EXPOSURE CATEGORY

- 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
- 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 PROFESSIONAL ENGINEER.

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)

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
- 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 SHALL BE ENGINEERED DESIGN. FOOTINGS UNDER FOUNDATION WALLS SHALL BE CONTINUOUS AROUND 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
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE
- 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.
- SHORING AND RESHORING: -SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH REACHES 70% OF STRENGTH DETERMINED BY CYLINDERS OR 28

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

#### MINIMUM STANDARDS

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 OTHERWISE. REINFORCING BAR SHALL BE GRADE 60 MINIMUM.

#### CONCRETE REINFORCEMENT STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
- 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 =  $12x\emptyset_{BAR}$ -BEND DIAMETER =  $12X\emptyset_{BAR}$
- 6. LAP SPLICE SCHEDULE (SEE TABLE 1.1)

#### HOOKED DOWELS:

- 7.1. HOOKED DOWELS FROM FOUNDATIONS TO WALL SHALL BE PROVIDED TO MATCH VERTICAL WALL
- REINFORCING AND EXTENDED TO 3" CLEAR FROM BOTTOM OF FOUNDATION 7.2. HOOKED DOWELS MATCH SLAB REINFORCING FROM SLAB TO WALLS OR SLAB TO FOUNDATION
- 8. PROVIDE 2 #5 BARS AROUND PERIMETER OF ALL SUSPENDED SLABS
- 9. HORIZONTAL WALL REINFORCING SHALL TERMINATE AT THE END OF THE WALL WITH A STANDARD
- 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 REINFORCEMENT SPACED 24" O.C. MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS 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.
  - 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 BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE INSIDE).
- 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 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	OTHER	R BARS		
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		

#### 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
- 4. STEEL FLOOR DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION

#### <u>TEEL DECK - SUSPENDED SLABS</u> 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

- 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

DRAWINGS:

- 1. STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 2. STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS: **HOLLOW STRUCTURAL SECTIONS:** ASTM A500 (Fy = 46 KSI) ASTM A36 (Fy = 36 KSI) CHANNELS, PLATES AND ANGLES: WIDE FLANGES: ASTM A992 (Fy = 50 KSI)
- 3. BOLTS SHALL CONFORM TO ASTM A307

COLUMNS:

**ANCHOR RODS** 

- 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
- 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.
- 5. HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4.
- 7. MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER M1503.6.

6. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER IRC M1504.3.

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.
- 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
- 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
- 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).

ASTM A53 GR. B (Fy= 35 KSI)

ASTM F1554 (Fy = 36 KSI)

- 1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.
- 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.
- 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.

#### <u>GLAZING</u>

- 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**

- 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"
- 2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.
- 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.
- 4. CARBON MONOXIDE DETECTORS SHALL BE INSTALLED AS REQUIRED PER R315.

#### FRAMING NOTES:

- 1. ALL LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED.
- 2. ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2x10 ON LOAD BEARING
- 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.



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SHEET#

	2018 IR	C TABLE R602.3(1) (SEE IRC FOR FOOTN	NOTES)
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
		ROOF	
1	BLOCKING BETWEEN CEILING JOISTS OR RAFTERS TO TOP PLATE	4-8D BOX (2-1/2"x0.113") OR 3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	TOE NAIL
2	CEILING JOSTS TO TOP PLATE	4-8D BOX (2-1/2"x0.113") OR 3-8D COMMON (2-1/2" x 0.131"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	PER JOIST, TOE NAIL
3	CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER LAPS OVER PARTITIONS	4-10D BOX (3" X 0.128"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-3" X 0.131" NAILS	FACE NAIL
4	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	TABLE R802.5.2	FACE NAIL
5	COLLAR TIE TO RAFTER, FACE NAIL OR 1-1/4"x20 GAGE RIDGE STRAP TO RAFTER	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
6	RAFTER OR ROOF TRUSS TO PLATE	3-16d BOX NAILS (3-1/2"x0.135") OR 3-10d COMMON NAILS (3"x0.148"); OR 4-10D 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
7	ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS OR ROOF RAFTER	4-16D (3-1/2"x0.135"); OR 3-10D COMMON (3" X 0.148"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X0.131" NAILS	TOE 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
		WALL	
8	STUD TO STUD (NOT AT BRACED	16D COMMON (3-1/2" X 0.162") 10d BOX (3"x0.128"); OR	24" O.C. FACE NAIL
	WALL PANELS)  STUD TO STUD AND ABUTTING	10d BOX (3"X0.128"); OR 3" X 0.131" NAILS 16D BOX (3-1/2"x0.135"); OR	16" O.C. FACE NAIL
9	STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL	3" X 0.131" NAILS	12" O.C. FACE NAIL
	PANELS)	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL
10	BUILT-UP HEADER (2" TO 2" HEADER WITH ½" SPACER)	16D COMMON (3-1/2"x0.162") 16D BOX (3-1/2" X 0.135)	16" O.C. ALONG EACH EDGE FACE NAIL  12" ALONG 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"); OR 4-10D BOX (3" X 0.128")	TOENAIL
		16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL
12	TOP PLATE TO TOP PLATE	10d BOX (3"x0.128"); OR 3" X 0.131" NAILS	12" O.C. 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 JOINT (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
	BOTTOM PLATE TO JOIST, RIM	16D COMMON (3-1/2" X 0.162")	16" O.C. FACE NAIL
14	JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16D BOX (3-1/2"x0.135"); OR 3" X 0.131" NAILS	12" O.C. FACE NAIL
15	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST BLOCKING (AT BRACED WALL PANELS)	3-16d BOX NAILS (3-1/2"x0.135") OR 2-16D COMMON (3-1/2"x0.162"); OR 4-3" X 0.131" NAILS	3 EACH 16" O.C. FACE NAIL 2 EACH 16" O.C. FACE NAIL 4 EACH 16" O.C. FACE NAIL
16	TOP OR BOTTOM PLATE TO STUD	4-8D BOX (2-1/2"x0.113") OR 3-16D BOX (3-1/2" x 0.135"); OR 4-8D COMMON (2-1/2" X 0.131"); OR 4-10D BOX (3" x 0.128"); OR 4-3" x 0.131" NAILS	TOE NAIL
		3-16D BOX (3-1/2" x 0.135"); OR 2-16D COMMON (3-1/2" X 0.162"); OR 3-10D BOX (3" x 0.128"); OR 3-3" x 0.131" NAILS	END NAIL
17	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	3-10D BOX (3" X 0.128"); OR 2-16D COMMON (3-1/2" X 0.162"); OR 3-3" X 0.131" NAILS	FACE NAIL
18	1" BRACE TO EACH STUD AND PLATE	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 STAPLES 1-3/4"	FACE NAIL
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 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE NAIL
20	1"x8" AND WIDER SHEATHING TO EACH BEARING	3-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 3 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG WIDER THAN 1" X 8" 4-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 4 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE NAIL

		C TABLE R602.3(1) (SEE IRC FOR FOOT)	,			
		FLOOR				
21	JOST TO SILL, TOP PLATE OR GIRDER	4-8D BOX (2-1/2" X 0.113"); OR 3-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	TOE	NAIL		
	RIM JOIST, BAND JOIST OR	8d BOX (2-1/2"x0.113")	4" O.C. 1	4" O.C. TOE NAIL		
22	BLOCKING TO SILL OR TOP PLATE (ROOF APPLICATIONS ALSO)	8D COMMON (2-1/2" X 0.131"); OR 10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	6" O.C. 1	ΓΟΕ NAIL		
23	1"x6" SUBFLOOR OR LESS TO EACH JOIST	3-8D BOX (2-1/2" X 0.113"); OR 2-8D COMMON (2-1/2" X 0.131"); OR 3-10D BOX (3" X 0.128"); OR 2 STAPLES, 1" CROWN, 16 GA, 1-3/4" LONG	FACE	ENAIL		
		FLOOR				
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 & ROOF)	2-16D COMMON (3-1/2"x0.162")	AT EACH BEAR	ING, FACE NAIL		
26	BAND OR RIM JOIST TO JOIST	3-16D COMMON (3-1/2" X 0.162"); OR 4-10 BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS ; OR 4-3" X 14 GA. STAPLES, <sup>7</sup> / <sub>16</sub> " CROWN	END	NAIL		
		20D COMMON (4" X 0.192"); OR	NAIL EACH LAYER AS F TOP END AND BOTTON			
27	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	10D BOX (3" X 0.128"); OR 3" X 0.131" NAILS	24" O.C. FACE NAIL AT STAGGERED ON OPPO			
	LOMBER EXTERO	AND: 2-20D COMMON (4" X 0.192"); OR 3-10D BOX (3" X 0.128"); OR 3-3" X 0.131" NAILS	FACE NAIL AT ENDS AND AT EACH SPLI			
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	4-16D BOX (3-1/2" X 0.135"); OR 3-16D COMMON (3-1/2" X 0.162"); OR 4-10D BOX (3" X 0.128"); OR 4-3" X 0.131" NAILS	AT EACH JOIST OR RAFTER, FACE N			
29	BRIDGING OR BLOCKING TO JOIST	2-10D BOX (3" X 0.128"); OR 2-8D COMMON (2-1/2" X 0.131"; OR 2-3" X 0.131") NAILS	EACH END, TOE NAIL			
	DESCRIPTION OF BUILDING		SPACING OF	FASTENERS		
ITEM	ELEMENTS	NUMBER AND TYPE OF FASTENER	EDGES (IN) INTERM SUPPOI			
30	3/8" - 1/2"	6d COMMON (2"x0.113") NAILS (SUBFLOOR, WALL) 8d COMMON (2-1/2"x0.131") NAIL (ROOF); OR RSRS-01 (2-38" X 0.113") NAIL (ROOF)	6	12		
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		
32	1-1/8" - 1-1.4"	10d COMMON (3"x0.148") NAIL OR 8D (2-1/2"x0.131") DEFORMED NAIL	6	12		
		OTHER WALL SHEATHING		1		
33	1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	1-1/2" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1-1/4" LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3 6			
34	25/32" STRUCTURAL CELLULOSTIC FIBERBOARD SHEATHING	1-3/4" GALVANIZED ROOFING NAIL, 7/16" HEAD DIAMETER, OR 1-1/2" LONG 16 GA STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN	3	6		
35	1/2" GYPSUM SHEATHING	1-1/2" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-1/2" LONG; 1-1/4" SCREWS, TYPE "W" OR "S"	7	7		
36	5/8" GYPSUM SHEATHING	1-3/4" GALVANIZED ROOFING NAIL; STAPLE GALVANIZED, 1-5/8" LONG; 1-5/8" SCREWS, TYPE "W" OR "S"	7	7		
	WOOD STRUCTURA	L PANELS, COMBINATION SUBFLOOR UN	NDERLAYMENT TO FE	RAMING		
	3/4" AND LESS	6D DEFORMED (2"x0.120") NAIL OR 8D COMMON (2-1/2"x0.131") NAIL	6	12		
37	0/1 / HID ELGG	,				
37	7/8" - 1"	8D COMMON (2-1/2"x0.131") NAIL OR 8D DEFORMED (2-1/2"x0.120") NAIL	6	12		

TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS									
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					

TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS									
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					

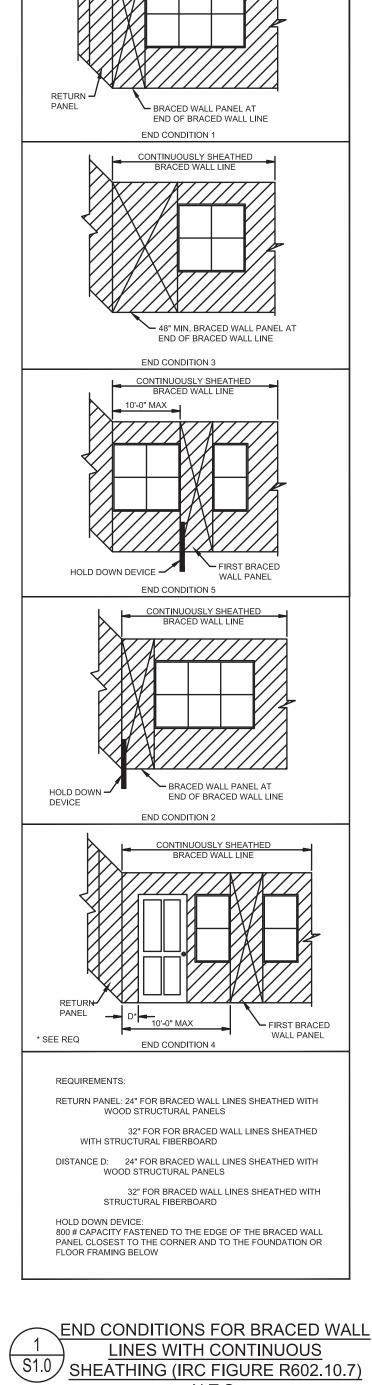
	REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL)											
MINIMU	MINIMUM NAIL  MINIMUM WOOD  STRUCTURAL  DANIEL SPAN		MINIMUM NOMINAL PANEL	MAX WALL STUD	PANEL NA	L SPACING	ULTIMATE DESIGN WIND SPEED, V ULT (MPH)					
SIZE	PENETRATION (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					
ou COMMON	1.75	24/16		24	6	12	140					

MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE         MAXIMUM PONY WALL HEIGHT (FEET)         MAXIMUM TOTAL WALL HEIGHT (FEET)         MAXIMUM OPENING WIDTH (FEET)         WIDTH (FEET)         FOR 90 EXPOSE BEAUTY           1         10         18         1,00           1         10         16         1,00           1         10         18         1,00           1         10         18         1,00           1         10         16         1,00           1         10         18         1,00           1         10         18         1,00           1         10         18         1,00           1         10         18         1,00           1         10         18         1,00           1         10         10         10         10	RAP ACITY JIRED NDS) 0 MPH SURE 3
1 10 9 1,0 16 1,0 18 1,0	00
1 10 16 1,0 18 1,0	00
18 1,0	00
	00
	00
]	200
2 10 16 1,0	00
2x4 NO 2 GRADE 18 2,0	125
9 2,4	-00
2 12 16 1,2	:00
18 3,2	:00
9 3,2	:00
4 12 16 2,3	50
18 DF	R
9 1,0	00
2 12 16 2,0	50
2x6 STUD 18 2,4	.50
GRADE 9 1,5	00
4 12 16 3,1	
18 3,6	

MINIMU	M LENGTH OF BRA	ACED WALL F (PARTIAL)	PANELS TABLE	R602.10.5
		MINIM	IUM LENGTH (	INCHES)
M	ETHOD		WALL HEIGHT	Γ
		8 FEET	9 FEET	10 FEET
	SUPPORTING ROOF ONLY	16	16	16
PFH	SUPPORTING ONE STORY AND ROOF	24	24	24
	PFG	24	27	30
(	CS-PF	16	18	20
CS-WSP	ADJACENT CLEAR OPENING HEIGHT (INCHES)			
	LESS THAN OR EQUAL TO 64	24	27	30

EC	UAL 10 64				
BRA	ACING METHODS T	TABLE R602.10.4 (PAI	RTIAL)		
METHODS,	MINIMUM	CONNECTION CRITEIA			
MATERIAL	THICKNESS	FASTENERS	SPACING		
WSP - WOOD STRUCTURAL PANEL		EXTERIOR SHEATHING PER TABLE R602.3(3)	6" EDGES, 12" FIELD		
	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	VARIES BY FASTENER		
CS-WSP CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL		EXERIOR SHEATHING PER TABLE R602.3(3)	6" EDGES, 12" FIELD		
	3/8	INTERIOR SHEATHING PER TABLE R602.3(1) OR R602.3(2)	VARIES BY FASTENER		
PFH - PORTAL FRAME WITH HOLD DOWNS	3/8	SEE IRC SECTION R602.10.6.2	SEE IRC SECTION R602.10.6.2		
PFG - PORTAL FRAME AT GARAGE	3/8	SEE IRC SECTION R602.10.6.3	SEE IRC SECTION R602.10.6.3		
LIB	1x4 WOOD OR APPROVED METAL STRAPS AT 45 TO 60	WOOD: 2-8d COMMON NAILS OR 3-8d NAILS	WOOD: PER STUD AND TOP AND BOTTOM PLATES		
LET-IN-BRACING	DEGREE ANGLES FOR MAX 16" STUD SPACING	METAL STRAP: PER MANUFACTURER	METAL: PER MANUFACTURER		
GB-GYPSUM BOARD	1/2	NAILS OR SCREWS PER TABLE R602.3(1) FOR EXTERIOR LOCATIONS	FOR ALL BRACED WALL PANEL LOCATIONS: 7"		
	1/2	NAILS OR SCREWS PER TABLE R702.3.5 FOR INTERIOR LOCATIONS	EDGES (INCLUDING TOP AND BOTTOM PLATES) 7" FIELD		

		ENGINEERED	LUMBER MINI	MUM DESIGN REQ	UIREMENTS
			fb (PSI)	E (PSI)	Fv (PSI
-	\	/ERSA-LAM LVL	3100	2.0x106	285
1		DOUGLAS FIR-LARCH #2	900	1.6x106	180



N.T.S.



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AMIN

SHEET#

CONNECTION DETAILS ON CENTER SPACING OF FASTENERS 1/2" DIAMETER LAG SCREW WITH 13 15/32" MAX SHEATHING 1/2" DIAMETER BOLT WITH 15/32" 36 29 24 MAX SHEATHING 1/2" DIAMETER BOLT WITH 15/32" MAX SHEATHING AND 1/2" STACKED

TABLE R507/2 FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER 2" NOMINAL SOLID SAWN SPRUCE-PINE-FIR BAND JOIST (DECK LIVE LOAD = 40PSF, DECK DEAD LOAD = 10 PSF)

8'1 TO 10'

10'1 TO 12'

24

12'1 TO 14'

21

16'1 TO 18'

19

14'1 TO 16'

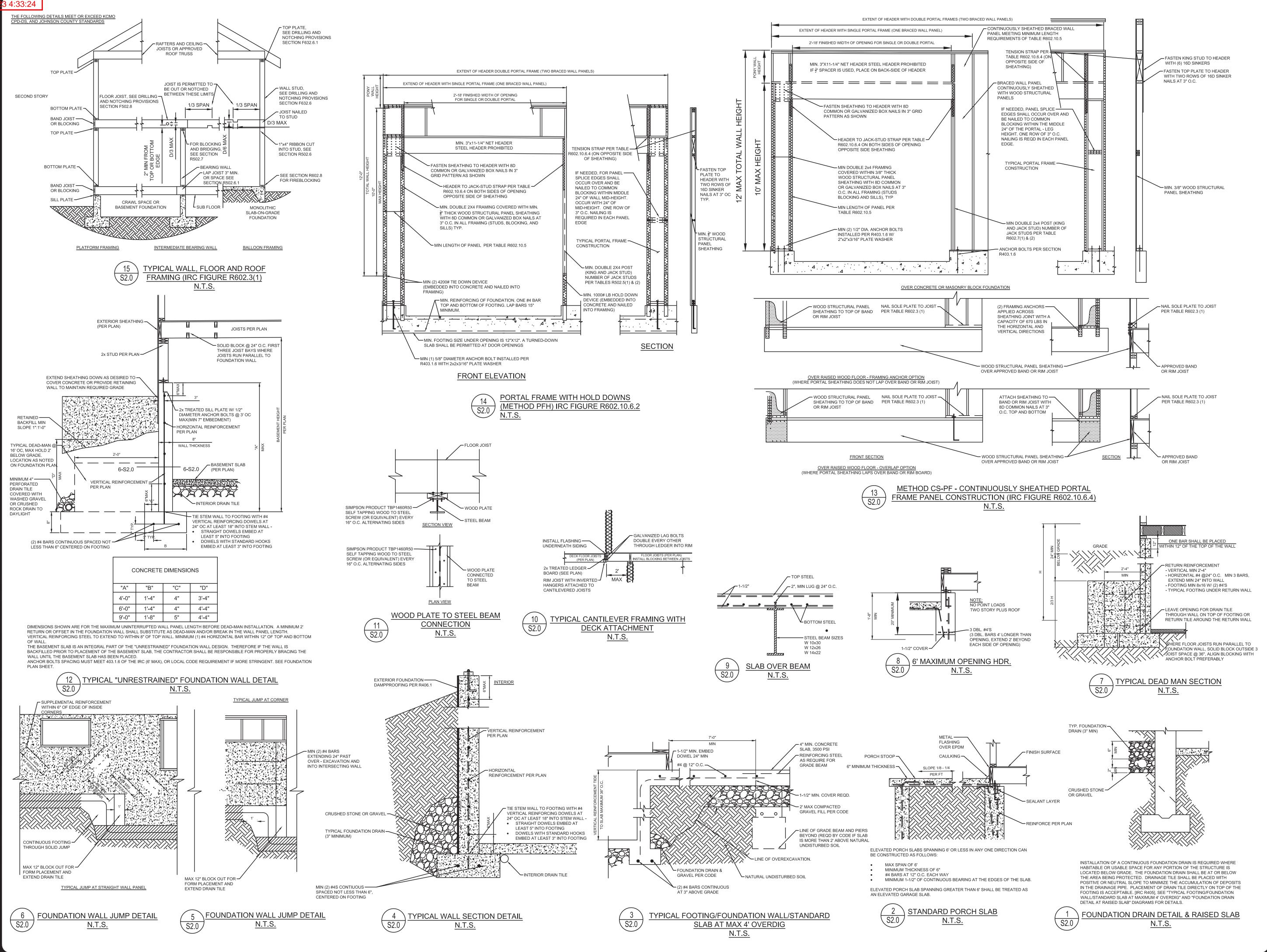
6'1 TO 8'

6' AND LESS

JOIST SPAN

WASHERS

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMY, MISSOURI 03/21/2023 4:33:24

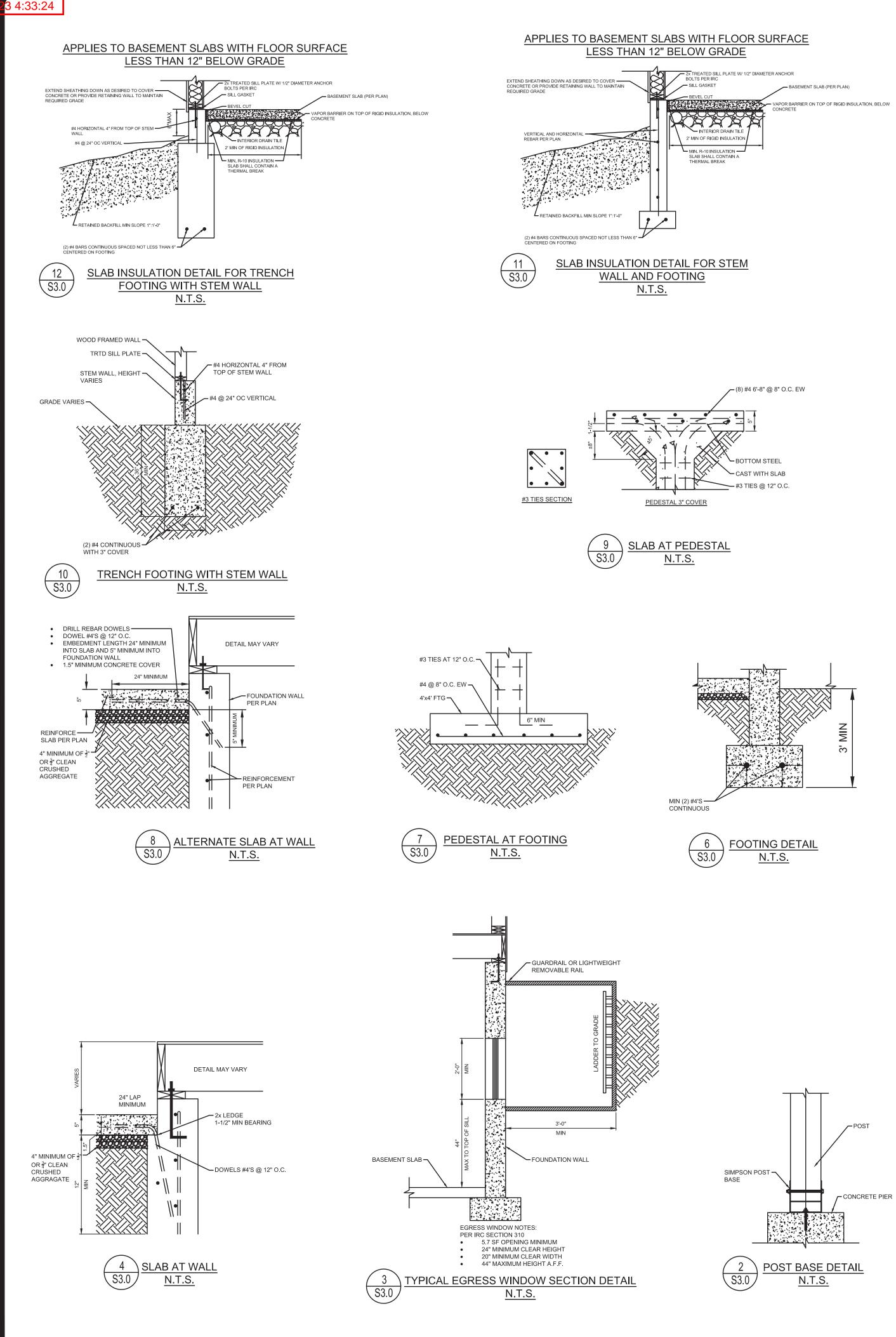


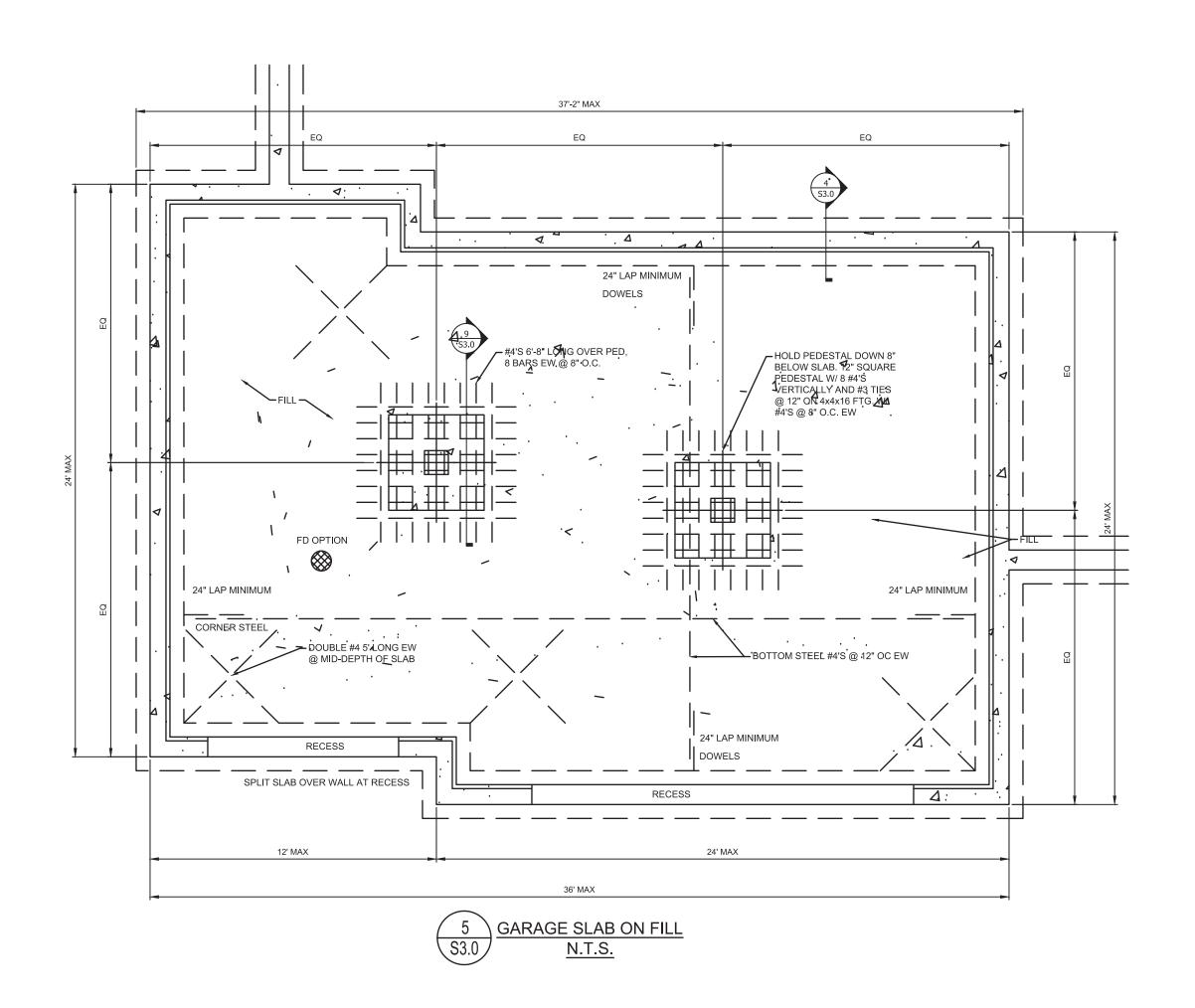


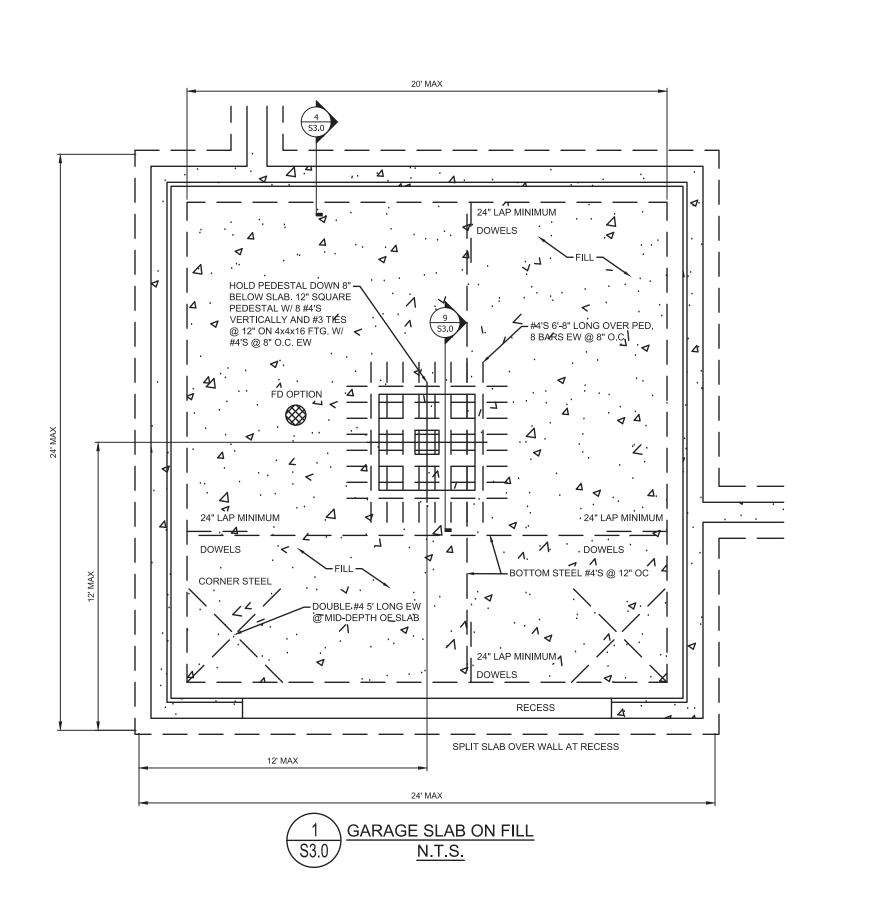
STRUCTURAL DETAILS

SHEET #

S<sub>2</sub>.0









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FOUNDATION DETAILS

SHEET #

S3.0

#### **HELIX REQUIREMENTS:**

- 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.
- 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.

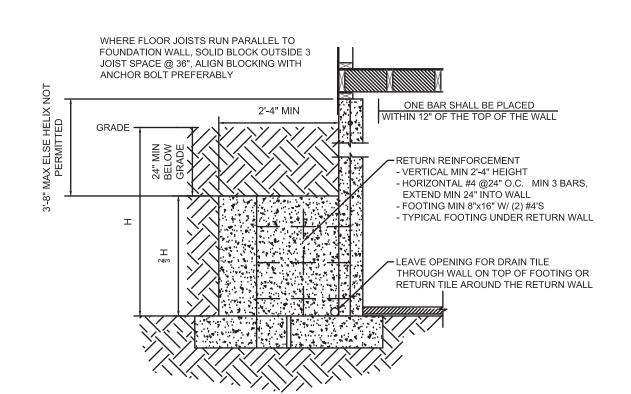
#### HELIX ALTERNATE DESIGN NOT VALID IF ANY ONE OF THE FOLLOWING CONDITIONS ARE MET:

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

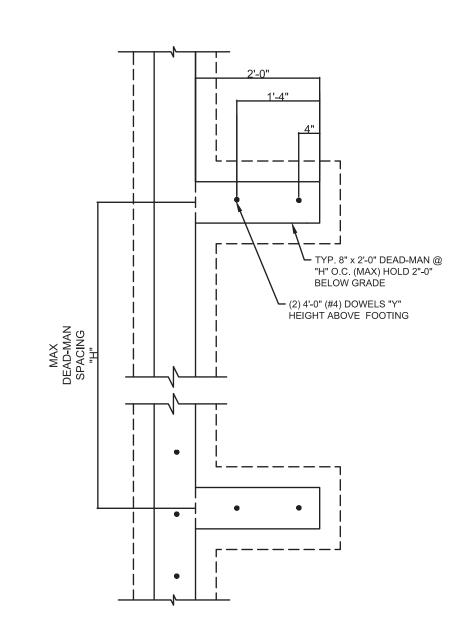
#### **HELIX DOSING INSTRUCTIONS:**

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.

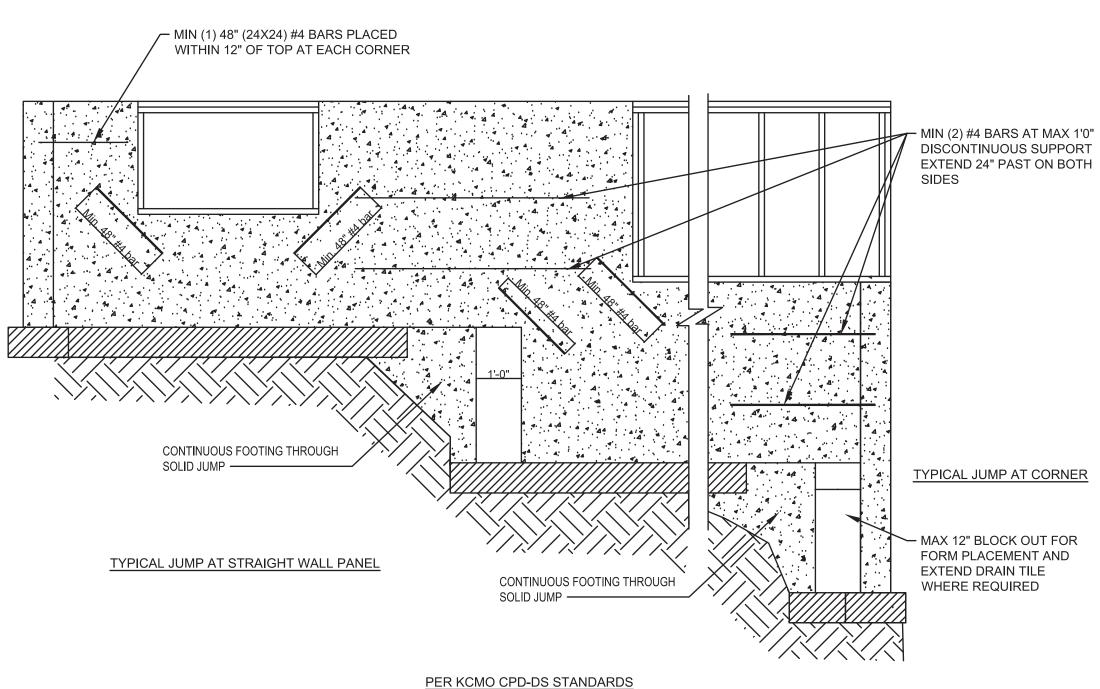
A SLUMP OF 125 MM OR 5" OR HIGHER WILL FACILITATE STRIKE OFF. A SLUMP OF LESS THAN 4" IS NOT RECOMMENDED AS THIS WILL PREVENT SURFACE SEGREGATION OF THE CEMENT AND FINES FROM THE AGGREGATE AND HELIX. SLUMP SHOULD BE MEASURED ON THE INITIAL LOAD AND ADJUSTMENTS MADE WITH A WATER REDUCER OR PLASTICIZER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



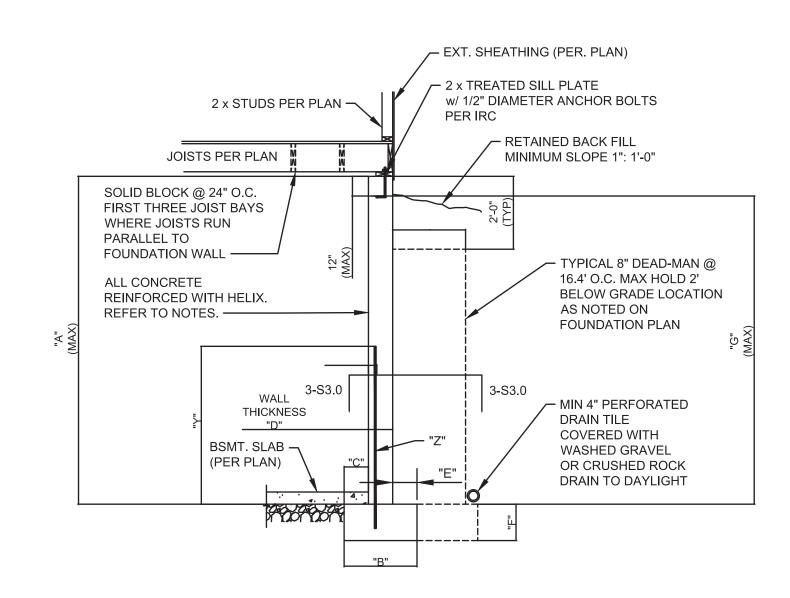












			CON	CRETE	DIMENS	SIONS	HEIGHT ABOVE FOOTING	REINFORCINGBARS (GRADE 60)	HELIX DOSAGE.	
"A"	"B"	"C"	"D"	"E"	"F"	"G"	"Y"	"Z"	, HELIX BOOKGE.	
8'-0"	1'-4"	4"	8"	4"	8"	7'-6"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD	
9'-0"	1'-4"	4"	8"	4"	8"	8'-6"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD	

DIMENSIONS SHOWN IS FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN SHALL BE INSTALLED. A MINIMUM 2' RETURN OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH.

WALL WILL NOT ACHIEVE FULL STRENGTH UNTIL FIRST FLOOR DECK AND BASEMENT SLAB HAVE BEEN PLACED.

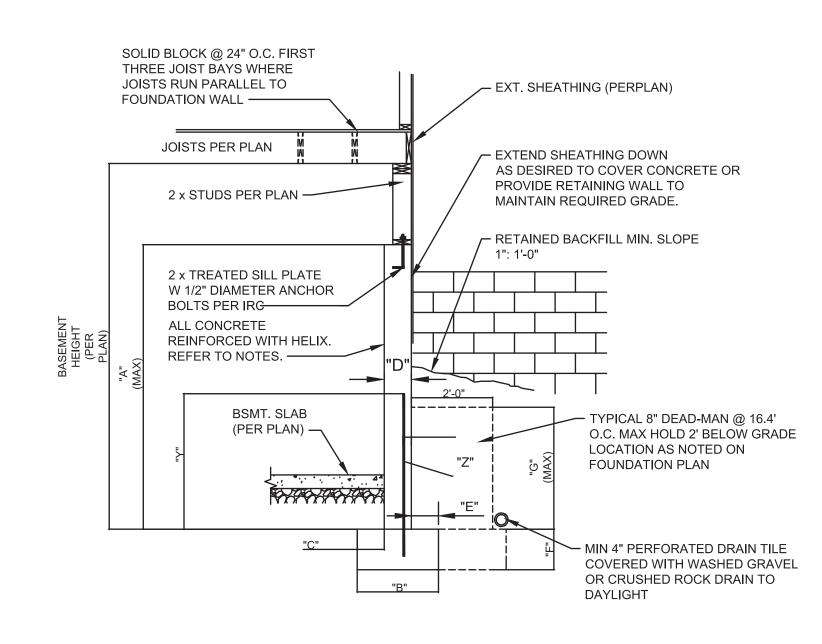
4 S3.1 TYPICAL FOUNDATION WALL DETAIL N.T.S.

	HELIX DOSAGE						
A	LL STRI	9 LB/CU FT					
		ISOL	AT.	ED FOOTINGS AND	COLUMN PAD	S	
SYM	PIER PAD SIZE	DEPT	Н	IINIMUM REINFORCEMENT GRADE 60 KSI STEEL	HELIX DOSAGE		
A	30"x30"	1'-0"		(5) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT	
B	36"x36"	1'-0"		(6) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT	
C	42"x42"	1'-2"		(7) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT	
$\triangle$	48"x48"	1'-4"		(8) #4 BAR E.W.	3" DIAMETER	12.5 LB/CU FT	
6	48"x48"	1'-4"		(8) #4 BAR E.W.	N/A	12.5 LB/CU FT	
E	54"x54"	1'-4"		(9) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT	
F	60"x60"	1'-6"		(10) #4 BAR E.W.	3.5" DIAMETER	12.5 LB/CU FT	
SYM	PIER DIAMETE	R	PTH	4 1	MINIMUM REINFORCEMENT GRADE 60 KSI STEEL		
G	12"	3	'-0"	(4) VERTICA	12.5 LB/CU FT		
<u>∕</u> H	16"	3	'-0"	' (4) VERTICAL #4		12.5 LB/CU FT	
$\triangle$	18"	3	'-0"	(4) VERTICA	12.5 LB/CU FT		
K	24"	3	'-0"	(4) VERTICA	AL #4	12.5 LB/CU FT	
	28"	3	'-0"	(4) VERTICA	\L #4	12.5 LB/CU FT	

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'.

COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED

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



			CONCR	ETE DIM	MENSION	IS	HEIGHT ABOVE FOOTING	REINFORCINGBARS (GRADE 60)	HELIX DOSAGE.
"A"	"B"	"C"	"D"	"E"	"F"	"G"	"Y"	"Z"	TILLIX BOOKGE.
4'-0'	1'-4"	4"	8"	4"	8"	3'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD
6'-0"	1'-4"	4"	8"	4"	8"	4'-4"	2'-6"	4 BARS AT 24" O.C.	9.0 LB/CUBIC YARD

DIMENSIONS SHOWN IS FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN SHALL BE INSTALLED. A MINIMUM 2' RETURN OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH. THE BASEMENT SLAB IS AN INTEGRAL PART OF THE "UNRESTRAINED" FOUNDATION WALL DESIGN. THEREFORE, IF THE WALL IS BACKFILLED PRIOR TO PLACEMENT OF THE BASEMENT SLAB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BRACING THE WALL UNTIL THE BASEMENT SLAB HAS BEEN PLACED.



## TYPICAL "UNRESTRAINED" FOUNDATION WALL DETAIL

N.T.S

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HELIX DETAILS

SHEET#

S3.1