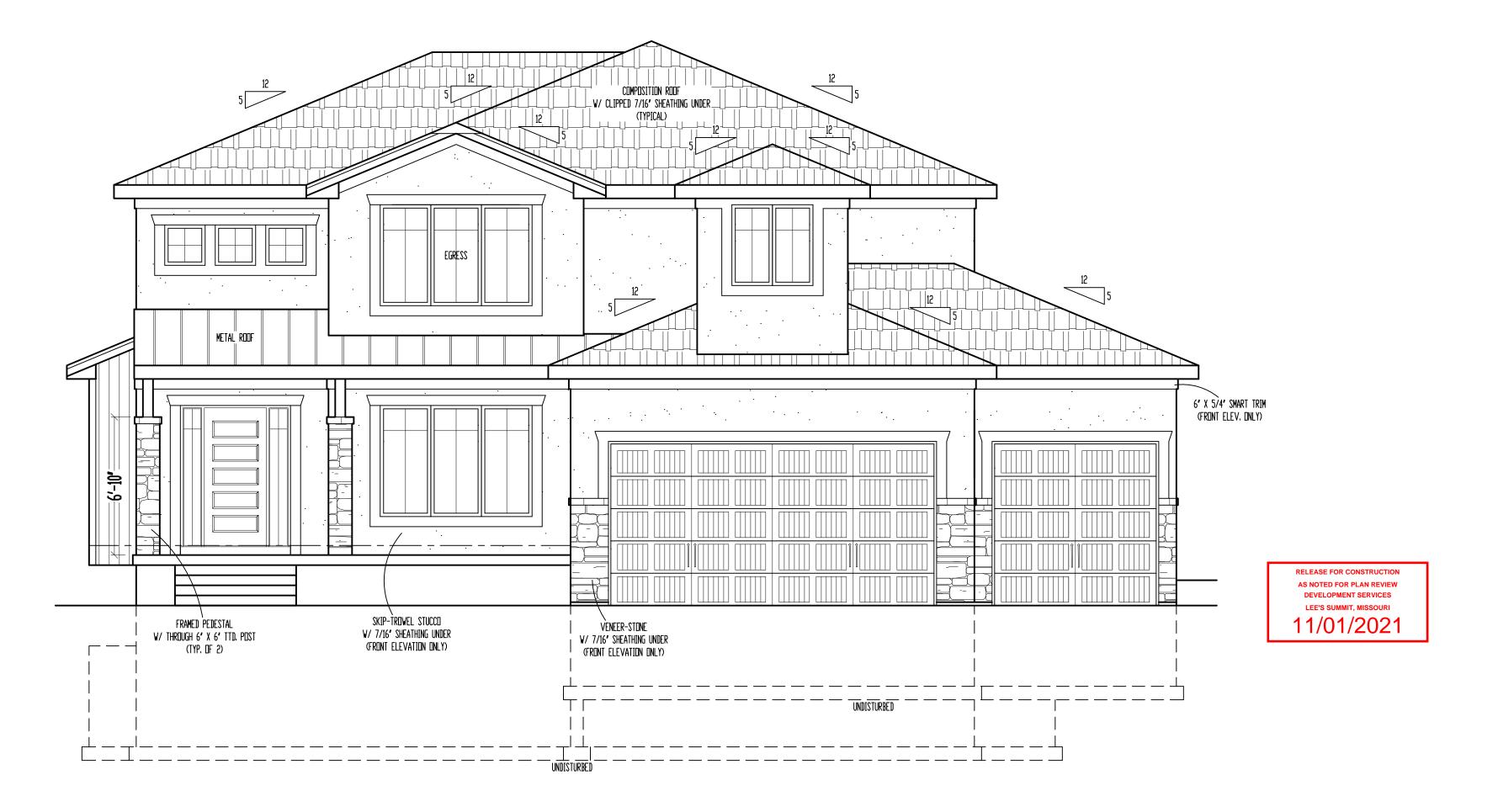
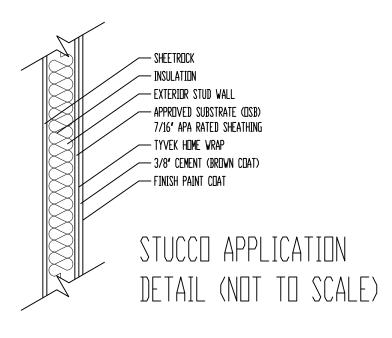
#### ONE-TIME-BUILD LICENSE AGREEMENT

# NOTE: GOVERNING CODES & GENERAL CONTRACTOR'S WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER THESE PLANS.



# FRONT ELEVATION

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



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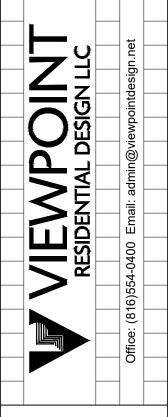
Residential Design, LLC.

the creation and design of this plan. However, the engineer and construction from these plans should not but of a construction professional, architect or engineer. any on site consultation and supervision, Viewpoint any on site consultation and supervision, Viewpoint assume no responsibility for any damages, et or any deficiencies, omissions or error in the design or is may vary from those illustrated on this plan. Designer of these plans for use on your specific site. Consult your

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Care and effort have gone into the creation

begotten Soft, that whosoever believeth in him should not perish, but have everlasting life"



Drawing Title:

WWS046 Spec

Site Description:

Lot 46,

Whisperings

Woods 2nd Plat

Street Address:

1612 SW. 27th St.,

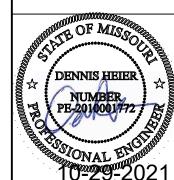
Lee's Summit,

Missouri

General Contractor:

Walker Custom

Homes, LLC

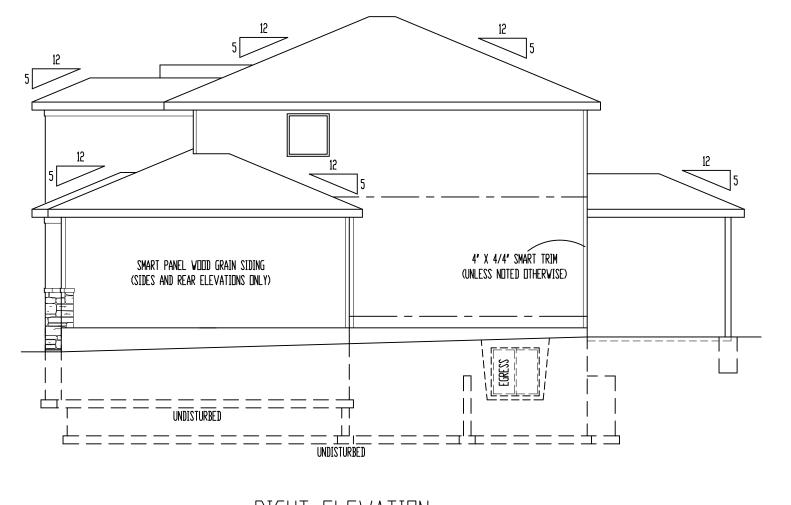


Date: 10 - 27 - AD 2021 Rev. 1: Rev. 2: Rev. 3:

Sheet Title: FRONT ELEVATION

Sheet No.:

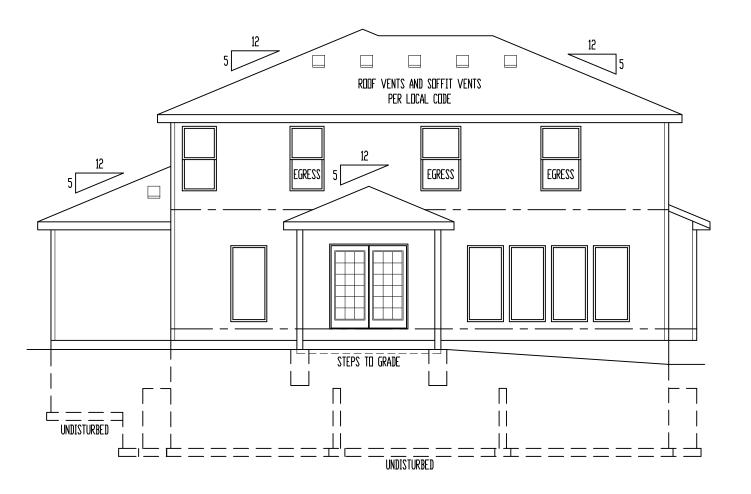
A-1
of 6



SMART PANEL WOOD GRAIN SIDING (SIDE AND REAR ELEVATIONS ONLY) CANTILEVER

RIGHT ELEVATION SCALE: 1/8" = 1'-0"

LEFT ELEVATION SCALE: 1/8" = 1'-0"



OPTIONAL DECK:

REAR ELEVATION SCALE: 1/8" = 1'-0"

Drawing Title:

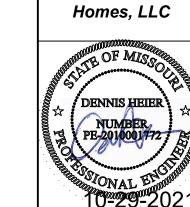
WWS046 Spec

Site Description:

Lot 46, ELEVATIONS:
SMART PANEL WOOD GRAIN SIDING ON SIDE AND REAR ELEVATIONS
COMPOSITION ROOF SHINGLES
LOCATE ROOF AND SOFFIT VENTS PER CODE
ADJUST FOUNDATION TO GRADE Whisperings
Woods 2nd Plat
Street Address:
1612 SW 27th St.,
Lee's Summit,

DECK CONSTRUCTION TO COMPLY WITH MUNICIPALITY'S RESIDENTIAL DECK STANDARDS 2" X 10" #2 TTD. @ 16" D.C. FLOOR JOISTS (MAX. SPAN: 14'-0")

2' X 6' TTD. DECKING 6' X 6' TTD. POSTS 2' X 2' TTD. SPINDLES 2" X 6" TTD. TOP RAIL DETERMINE OPTIONAL STAIRS ON SITE



Missouri General Contractor:

Walker Custom

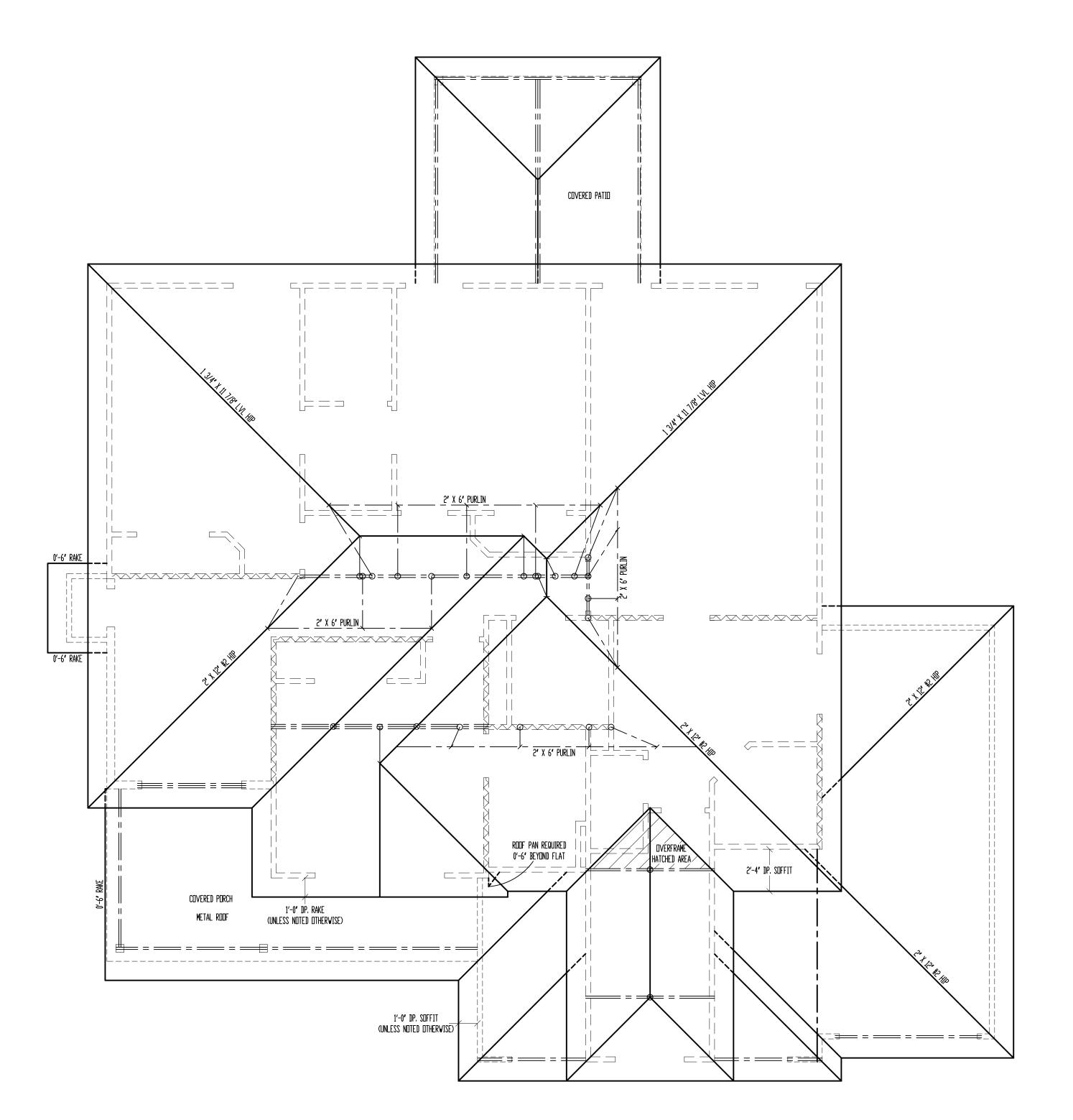
Date: <u>10 - 27 - AD 2021</u> Rev. 1: Rev. 2:

Rev. 3:

Sheet Title: SIDES & REAR **ELEVATIONS** 

Sheet No.:





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

SEE DETAIL 7/S3.2 FOR ALTERNATE RAFTER BEARING DETAIL WHEN RAFTERS ARE REQUIRED TO BEAR HIGHER THAN THE WALL DOUBLE TOP PLATE.

ROOF DESIGNED FOR LIGHT ROOF COVERING 30psf TOTAL LOAD [10psf DL, 20psf LL (SL)]

SEE SPAN CHARTS BELOW

L/180 TOTAL LOAD

| HIGHER PE | RFORMANCE (RI             | ECOMMENDED)              |
|-----------|---------------------------|--------------------------|
| RAFTERS   | SPACING                   | MAX HORIZONTAL CLEARSPAN |
| #2-2x6    | @24″ □.C.                 | 8'-6 <b>"</b>            |
| #2-2x6    | <b>0</b> 16 <b>′</b> □.C. | 9'-9 <b>'</b>            |
| #2-2x8    | @24″ □.C.                 | 11'-3 <b>'</b>           |
| #2-2x8    | <b>0</b> 16 <b>′</b> □.C. | 12'-9 <b>'</b>           |
| #2-2x10   | @24″ □.C.                 | 14′-3 <b>′</b>           |
| #2-2x10   | 016 <b>°</b> □.C.         | 16'-3 <b>'</b>           |

DEFLECTION = L/360 LIVE LUAD, L/240 TOTAL LUAD

- #2- 2X8 UP TO 10/12 PITCH

- #2- 2X8 UP TO 10/12 PITCH

\* PURLINS ARE 2X6 MIN.

45 DEGREE ANGLE WITH THE HORIZONTAL

- PURLINS STRUTS SHALL BE CONSTRUCTED IN A

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

\* RIDGE BRACES ARE SAME AS PURLIN BRACES-SPACING, SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE) \* HIP & VALLEY BRACES ARE SAME AS PURLIN SIZE, CONFIGURATION, & INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

\* VERTICAL BRACE IF DOT IS UNDER HIP OR VALLEY \* SLASH IS TOP END OF BRACE ( / ), DOT IS BOTTOM OF BRACE ( o ).

\* OF DENOTES BEARING WALL \*---- DENOTES ROOF BRACE

Date: <u>10 - 27 - AD 2021</u> Rev. 1: Rev. 2: Rev. 3:

Sheet No.:



ROOF

\*ALL RAFTERS SHALL BE 2' X 6' #2 @ 16' D.C., UNLESS NOTED OTHERWISE.

DRIP EDGE, VALLEYS AND FLASHINGS TO BE METAL CLAD.

ROOF NOTES:

\* RAFTERS (HEM-FIR, DOUG-FIR, OR EQUAL):

|                         | CODE MINII | MUM                       |                             | _     |
|-------------------------|------------|---------------------------|-----------------------------|-------|
|                         | RAFTERS    | SPACING                   | MAX HORIZONTAL CLEARSPAN    |       |
|                         | #2-2x6     | @24 <b>*</b> D.C.         | 11'-7 <b>"</b>              |       |
| $\rangle\rangle\rangle$ | #2-2x6     | <b>016</b> ″ □.C.         | 14'-2 <b>'</b>              | ] ((( |
|                         | #2-2x8     | 024 <b>′</b> □.C.         | 14'-8 <b>'</b>              |       |
|                         | #2-2x8     | 016 <b>″</b> □.C.         | 17'-11 <b>'</b>             |       |
|                         | #2-2x10    | 024 <b>′</b> □.C.         | 17'-10 <b>"</b>             |       |
|                         | #2-2x10    | <b>0</b> 16 <b>′</b> □.C. | 21′-11 <b>′</b>             |       |
|                         | NOTE: CODE | MINIMUM ALL               | DWS FOR A RAFTER DEFLECTION | OF    |

| HIGHER PERFORMANCE (RECOMMENDED)  RAFTERS SPACING MAX HORIZONTAL CLEARSPAN #2-2x6 @24' D.C. 8'-6' #2-2x6 @16' D.C. 9'-9' #2-2x8 @24' D.C. 11'-3' #2-2x8 @16' D.C. 12'-9' |            |                           |                             |
|--|------------|---------------------------|-----------------------------|
|  | RAFTERS    | SPACING                   | MAX HORIZONTAL CLEARSPAN    |
|  | #2-2x6     | @24″ □.C.                 | 8'-6 <b>"</b>               |
|  | #2-2x6     | 016 <b>′</b> □.C.         | 9'-9 <b>'</b>               |
|  | #2-2x8     | @24″ □.C.                 | 11'-3 <b>"</b>              |
|  | #2-2x8     | <b>0</b> 16 <b>′</b> □.C. | 12′-9 <b>′</b>              |
|  | #2-2x10    | @24″ □.C.                 | 14'-3 <b>'</b>              |
|  | #2-2x10    | <b>0</b> 16 <b>′</b> □.C. | 16'-3 <b>'</b>              |
|  | DEEL ECTIO | N = 1 /360 1 IV           | /F L NAN L /240 TOTAL L NAN |

| ¥ | VAULTS  | TO BE | 2x10   | DEPTH  |      |
|---|---------|-------|--------|--------|------|
| ¥ | RIDGE B | DARDS | ARE: ( | UNLESS | OTHE |

- #2- 2X10 OVER 10/12 PITCH \* ALL HIPS & VALLEYS ARE: (UNLESS DTHERWISE NOTED)

- #2- 2X10 DVER 10/12 PITCH

- PURLIN STRUTS ARE AT 4'-0" D.C. - PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS THAN A

- ALL PURLINS STRUTS SHALL HAVE A MAXIMUM UNBRACED LENGTH OF 8'-0' 'T' CONFIGURATION AND PER THE FOLLOWING CHART:

MATE OF MISSON DENNIS HEIER NUMBER PE-2010001772

Drawing Title: WWS046 Spec

Site Description:

Lot 46,

Whisperings

Woods 2nd Plat

Street Address:

1612 SW. 27th St.,

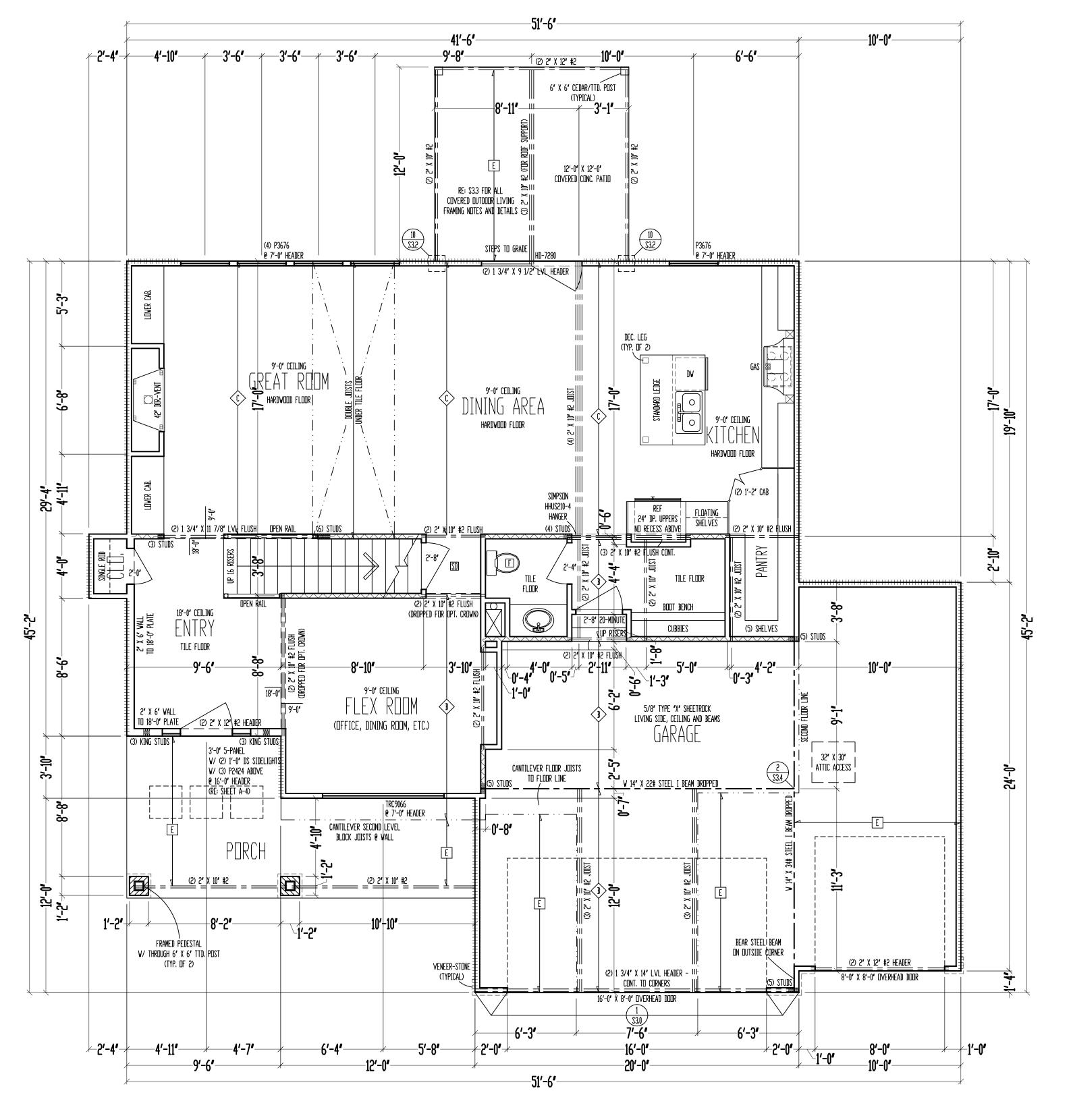
Lee's Summit,

Missouri

General Contractor:

Walker Custom Homes, LLC

Sheet Title: **ROOF PLAN** 



9'-0" CEILING
2" X 10" FLOOR SYSTEM ABOVE
MAIN LEVEL

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

MAIN LEVEL: 1163 SQ. FT.

SECOND LEVEL: 1304 SQ. FT.

TOTAL: 2467 SQ. FT.

GARAGE: 667 SQ. FT. COV. DUT/LIV: 144 SQ. FT. UNFIN. BASEMENT: 1065 SQ. FT.

#### FRAMING NOTES

1. MAIN LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16' D.S.B. A.P.A. PANELS W/ 8d COMMON NAILS @ 6' D.C. AT EDGES & @ 12' D.C. IN THE FIELD. SMART PANEL, DR EQUAL, INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

2.\\\\\\\ = G.B.; 1/2" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX FASTENED W/ NO. 6 - 1 1/4" TYPE W OR S DRYWALL SCREWS @ 7" O.C. EDGES & FIELD. (MIN. 8'-0" SECTIONS ONE SIDE OF WALL (OR) MIN. 4'-0" SECTION FOR BOTH SIDES)
3. /\/\/\/\/\/\/\/\\\ = LOAD BEARING INTERIOR WALL.

4. (2) 2' X 10' #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED OTHERWISE.

LOW TIES @ 4'-0' D.C. (TYPICAL)

6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS.

7. BLDCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS).

8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS.

9. ALL DESIGNATED 2' X 6' WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW OPENINGS.

10. ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE.
11. ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2′ X 4′S € 16′ D.C., UNLESS NOTED OTHERWISE.

12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS @ 8' D.C. MAX. (WHERE APPLICABLE.)

13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DE/DE GRADE 24E-V4 GLULAM REAMS OF

13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:

(2) 1 3/4' LVL PLIES = 3 1/2' GLULAM (3) 1 3/4' LVL PLIES = 5 1/2' GLULAM

14. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS.

|                                     | JOIST SCHEDULE  |
|-------------------------------------|---|
| 2' X 10' #3 FLOOR JOIST @ 16' D.C.  |   |
| $\bigcirc$ B $>$                    | 2" X 10" #2 FLOOR JOIST<br>@ 16" D.C.                   |
| ⟨¢⟩                                 | 2" X 10" #2 FLOOR JOIST<br>@ 16" D.C DOUBLE EVERY OTHER |
| D                                   | 2" X 6" #3 CEILING JOIST<br>€ 16" D.C.                  |
| 2' X 6' #2 CEILING JOIST @ 16' D.C. |   |

BOVE

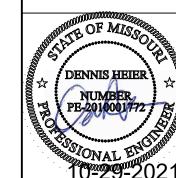
yave riis Oriiy begotten Son, that whosoever believeth in him should not perish, but have everlasting life"

RESIDENTIAL DESIGN LLC
Office: (816)554-0400 Email: admin@viewpointdesign.net

WWS046 Spec
Site Description:
Lot 46,
Whisperings
Woods 2nd Plat
Street Address:
1612 SW. 27th St.,
Lee's Summit,

Drawing Title:

Missouri
General Contractor:
Walker Custom
Homes, LLC



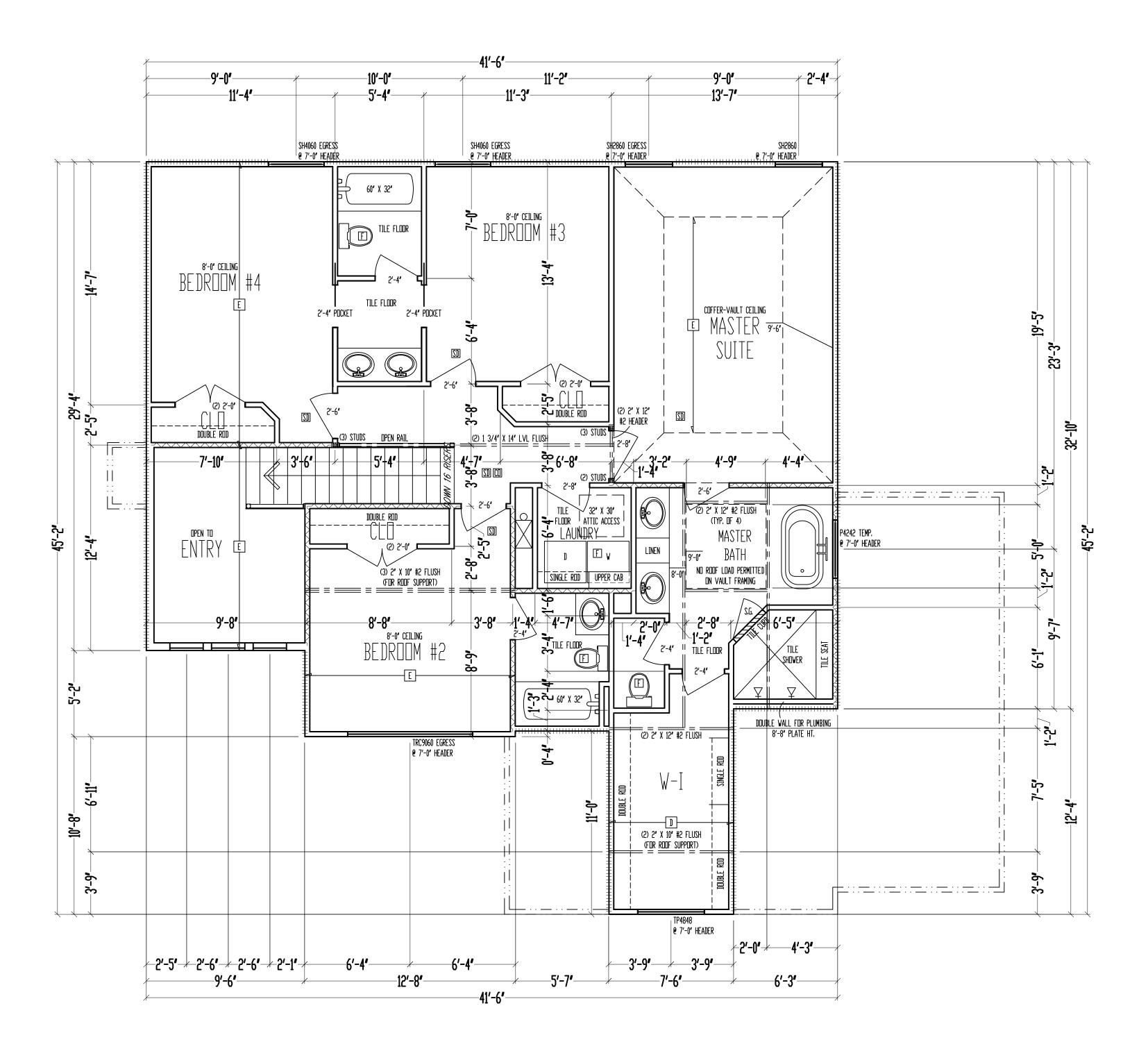
Date: 10 - 27 - AD 2021 Rev. 1: Rev. 2:

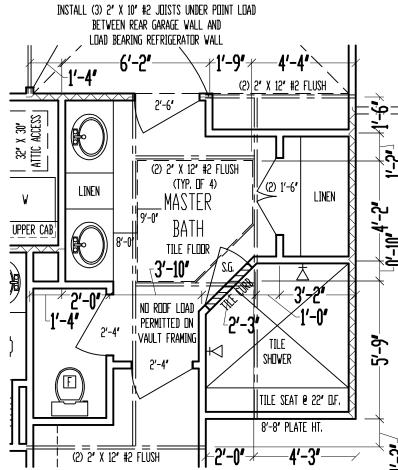
Rev. 3:

Sheet Title:
MAIN LEVEL
PLAN

Sheet No.:







OPTION: NO WHIRLPOOL TUB OR WINDOW SCALE: 1/4'' = 1'-0''

> 8'-0" CEILING SECOND LEVEL

1. SECOND LEVEL EXTERIOR WALLS SHALL BE SHEATHED W/ 7/16" D.S.B. A.P.A. PANELS W/ 8d COMMON NAILS @ 6' D.C. AT EDGES & @ 12' D.C. IN THE FIELD, SMART PANEL, DR EQUAL,

2. \ \ \ \ \ \ \ \ = G.B; 1/2' MIN. GYPSUM BOARD OVER STUDS SPACED 24' MAX FASTENED W/ NO. 6 - 1 1/4" TYPE W OR S DRYWALL SCREWS @ 7" D.C. EDGES & FIELD. (MIN. 8'-0' SECTIONS ONE SIDE OF WALL (OR) MIN. 4'-0' SECTION FOR BOTH SIDES)

3. /\/\/\/\/\/\\ = LOAD BEARING INTERIOR WALL.
4. (2) 2' X 10' #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS NOTED

MATERIAL (NOT REQUIRED WITH I-JOISTS). 8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS.

9. ALL DESIGNATED 2" X 6" WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW

10. ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE.

12. EXTERIOR WALL BOTTOM PLATES SHALL BE NAILED TO FRAMING BELOW WITH 16d COMMON NAILS @ 16" D.C. MAX. (WHERE APPLICABLE.)

THE SAME DEPTH, AND THE FOLLOWING WIDTHS:

(3) 1 3/4" LVL PLIES = 5 1/2" GLULAM 14. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF ANY DEFLECTION LIMITATIONS MORE STRINGENT THAN CODE MINIMUMS ABOVE ANY OPENINGS.

|   | JOIST SCHEDULE                         |  |  |
|---|--|--|--|
| D | 2" X 6" #3 CEILING JOIST<br>@ 16" D.C. |  |  |
| E | 2" X 6" #2 CEILING JOIST<br>@ 16" D.C. |  |  |

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

ON SHEET S1.1.

INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

OTHERWISE.

5. LOW TIES @ 4'-0" D.C. (TYPICAL)

6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS.

7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST

11. ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2' X 4'S @ 16' D.C., UNLESS NOTED

13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF

(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM

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Drawing Title:

WWS046 Spec

Site Description:

Lot 46,

Whisperings

Woods 2nd Plat

Street Address:

1612 SW. 27th St.,

Lee's Summit,

Missouri

General Contractor:

Walker Custom

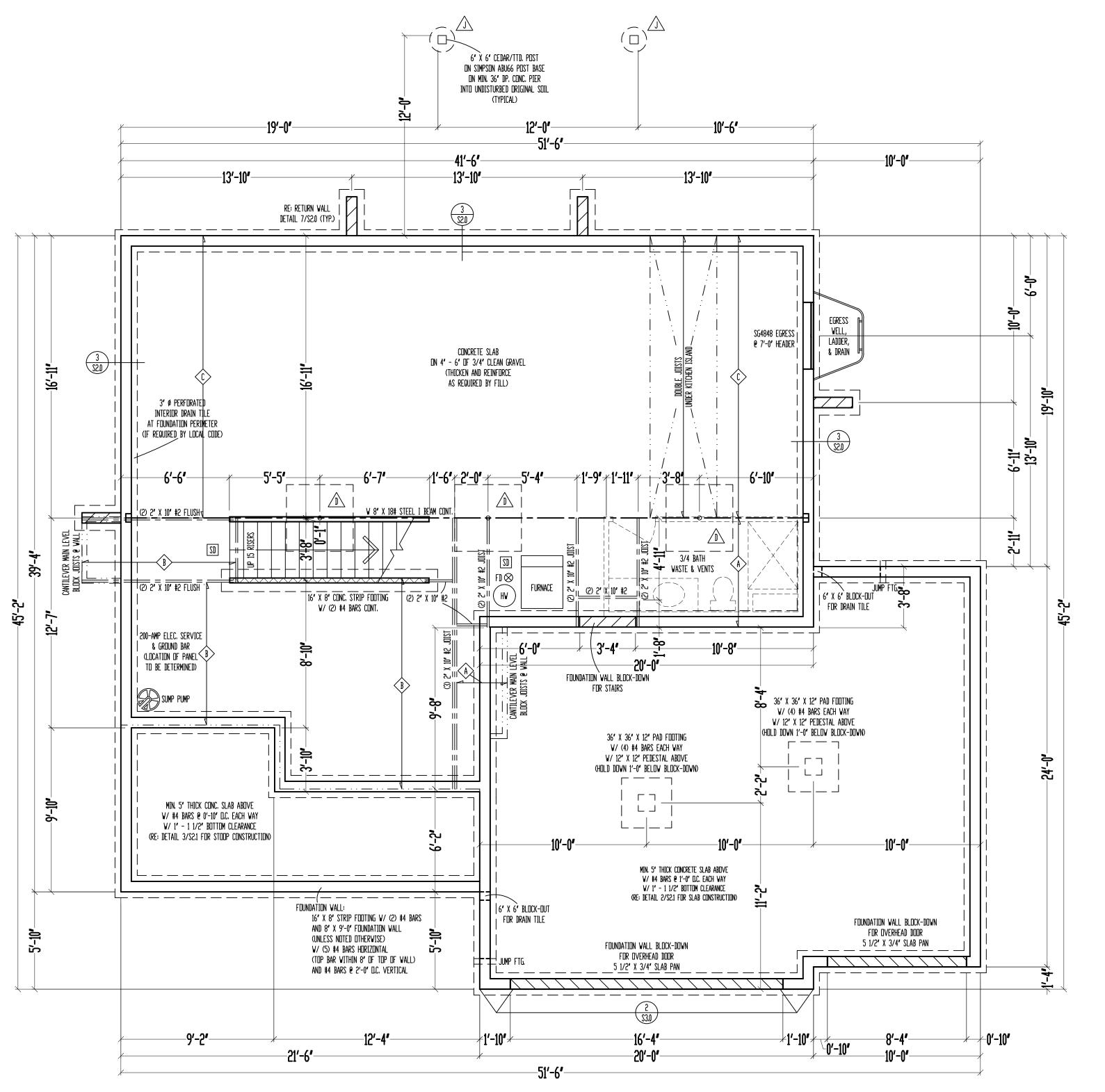
Homes, LLC

Date: 10 - 27 - AD 2021 Rev. 1: Rev. 2:

Rev. 3: Sheet Title:

**SECOND LEVEL PLAN** 

Sheet No.:



9'-0" FOUNDATION WALLS (UNLESS NOTED OTHERWISE) ON 16" X 8" STRIP FOOTINGS (STEP WHERE GRADE REQUIRES)

## 2" X 10" FLOOR SYSTEM ABOVE FOUNDATION SCALE: 1/4" = 1'-0"

CALCULATIONS ON SHEET S1.1.

1. Basement level exterior vood-framed walls shall be sheathed  $\mbox{w/}$ 7/16' D.S.B. A.P.A. PANELS W/ 8d COMMON NAILS @ 6' D.C. AT EDGES & @ 12' D.C. IN THE FIELD. SMART PANEL, OR EQUAL, INSTALLED PER MANUFACTURER'S

2. \ \ \ \ \ \ \ \ = G.B.: 1/2' MIN. GYPSUM BOARD OVER STUDS SPACED 24' MAX FASTENED W/ ND. 6 - 1 1/4' TYPE W DR S DRYWALL SCREWS € 7' D.C. EDGES & FIELD. (MIN. 8'-0' SECTIONS DNE SIDE OF WALL (OR) MIN. 4'-0" SECTION FOR BOTH SIDES)

3.  $\/\/\/\/\/\/\$  = LOAD BEARING INTERIOR WALL. 4. (2) 2' X 10' #2 HEADER AT ALL EXTERIOR AND LOAD BEARING WALLS, UNLESS

5. LOW TIES @ 4'-0" D.C. (TYPICAL) 6. RUN STUDS THE FULL HEIGHT OF RAISED PLATE WALLS.

7. BLOCK JOISTS ABOVE BEAMS, CANTILEVERS AND LOAD BEARING WALLS WITH JOIST MATERIAL (NOT REQUIRED WITH I-JOISTS).

8. PROVIDE MULTIPLE STUDS FOR SOLID BEARING BELOW ALL BEAMS. 9. ALL DESIGNATED 2' X 6' WALLS SHALL HAVE DOUBLE KING STUDS AT DOOR AND WINDOW OPENINGS.

10. ALL UNSQUARE WALLS SHALL BE 45°, UNLESS NOTED OTHERWISE. 11. ALL WALLS TO BE FRAMED W/ MIN. STUD GRADE 2' X 4'S @ 16' D.C., UNLESS NOTED OTHERWISE.

12. 1/2" Ø ANCHOR BOLTS W/ MIN. 7" EMBEDMENT @ 48" D.C. MAX. & WITHIN 6" -12' OF END OF EACH PLATE LENGTH.

13. LVL'S SHOWN ON PLANS MAY BE REPLACED WITH DF/DF GRADE 24F-V4 GLULAM BEAMS OF THE SAME DEPTH, AND THE FOLLOWING WIDTHS:

(2) 1 3/4" LVL PLIES = 3 1/2" GLULAM (3) 1 3/4" LVL PLIES = 5 1/2" GLULAM 14. NEW FOUNDATION SHALL BEAR ON ORIGINAL SOIL WITH MINIMUM BEARING CAPACITY OF 1500 PSF. A GEOTECHNICAL ENGINEER IS RECOMMENDED FOR VERIFICATION OF THESE CONDITIONS DURING THE EXCAVATION PHASE. ENGINEER

BE FOUNDED ON ANYTHING SHORT OF THE AFOREMENTIONED REQUIREMENTS. 15. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD BEFORE CONSTRUCTION OF OPENINGS.

|                      | STEEL COLUMN &  |  | PIER FOOTING SCHEDULE |   |
|----------------------|---|--|-----------------------|---|
| PAD FOOTING SCHEDULE |   |  | ſ                     | 12' Ø PIER FTG.                         |
| Â                    | 3' X 11 GA. STEEL COLUMN ON 30' X 30' X 10' PAD FOOTING W/ (4) #4 BARS EACH WAY (12.5k)           |  |                       | 16" Ø PIER FTG.                         |
| B                    | 3 1/2' X 11 GA. STEEL COLUMN<br>ON 36' X 36' X 10' PAD FOOTING<br>W/ (4) #4 BARS EACH WAY (18.0k) |  | $\triangle$           | 18' Ø PIER FTG.                         |
| <u>^</u>             | 3' SCH. 40 STEEL COLUMN<br>ON 42' X 42' X 12' PAD FOOTING   |  | K                     | 24' Ø PIER FTG.                         |
|                      | W/ (5) #4 BARS EACH WAY (24.5k)   |  |                       |   |
| $  \wedge  $         | 3 1/2" SCH. 40 STEEL COLUMN<br>On 48" X 48" X 12" PAD FOOTING                                     |  |                       | JOIST SCHEDULE                          |
|                      | W/ (6) #4 BARS EACH WAY (32.0k)   |  | $\langle A \rangle$   | 2" X 10" #2 TTD. FLOOR JO<br>@ 16" D.C. |
| _ \                  | 3 1/2" SCH. 40 STEEL COLUMN   |  | ~                     | C 10 DiG                                |

E ON 54' X 54' X 14' PAD FOOTING

DN 60' X 60' X 14' PAD FOOTING

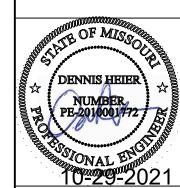
W/ (7) #4 BARS EACH WAY (40.5k)

3 1/2" SCH. 40 STEEL COLUMN

W/ (8) #4 BARS EACH WAY (50.0k)

|   | <u> </u>  | 10 PILKIIG      |  |  |
|---|---|-----------------|--|--|
|   | $\triangle$   | 18' Ø PIER FTG. |  |  |
| K |   | 24' Ø PIER FTG. |  |  |
|   |   |                 |  |  |
|   | JOIST SCHEDULE  |                 |  |  |
|   | 2' X 10' #2 TTD. FLOOR JOIST @ 16' D.C.               |                 |  |  |
|   | 8 2' X 10' #2 FLOOR JOIST @ 16' D.C.                  |                 |  |  |
|   | 2' X 10' #2 FLOOR JOIST<br>@ 16' O.C DOUBLE EVERY OTH |                 |  |  |

Drawing Title: WWS046 Spec Site Description: Lot 46, Whisperings Woods 2nd Plat Street Address: 1612 SW. 27th St., Lee's Summit, Missouri General Contractor: Walker Custom Homes, LLC



Date: 10 - 27 - AD 2021 Rev. 1: Rev. 2: Rev. 3:

Sheet Title: **FOUNDATION** 

PLAN

Sheet No.:

11/01/2021

|   | FASTENER SCHEDULE FOR STRUCTURAL MEMBERS   | T   |
|---|--|---|
| DESCRIPTION OF BUILDING ELEMENTS  | NUMBER AND TYPE OF FASTENER  | SPACING AND LOCATION  |
|   | ROOF <sup>1</sup>  |   |
| BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP<br>PLATE, TOE NAIL                                | 4-8d (2½" x 0.113")  | TOENAIL   |
| CEILING JOISTS TO PLATE, TOE NAIL   | 4-8d (2½" x 0.113")  | PER JOIST, TOENAIL  |
| CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, FACE NAIL             | 4-10d (3" x 0.128")  | FACE NAIL   |
| CEILING JOIST TO PARALLEL RAFTER (HEEL JOINT)   | TBLE R802.5.2  | FACE NAIL   |
| COLLAR TIE TO RAFTER, FACE NAIL OR 1 ¼ x 20 GA.<br>RIDGE STRAP TO RAFTER                    | 4-10d (3" x 0.128")  | FACE NAIL, EACH RAFTER  |
| RAFTER OR ROOF TRUSS TO PLATE   | 3-16d BOX NAILS (3½" x 0.135") OR 3-10d COMMON<br>NAILS (3" x 0.148")                | 2 TOE NAILS ON ONE SIDE AND 1 TOE NAIL ON<br>OPPOSITE SIDE OF EACH RAFTER OR TRUSS        |
| ROOF RAFTERS TO RIDGE, VALLEY, OR HIP<br>RAFTERS OR ROOF RAFTER TO MINIMUM 2" RIDGE<br>BEAM | 4-16d (3 ½" x 0.135") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL                | TOENAIL, END NAIL   |
|   | WALL   |   |
| STUD TO STUD (NOT AT BRACED WALL PANELS)  | 10d (3" x 0.128")  | 16" O.C. FACE NAIL  |
| STUD TO STUD AND ABUTTING STUDS AT<br>NTERSECTING WALL CORNERS (AT BRACED WALL<br>PANELS)   | 16d (3½" x 0.135")   | 12" O.C. FACE NAIL  |
| BUILT-UP HEADER, TWO PIECES WITH ½" SPACER  | 16d (3½" x 0.135")   | 12" O.C. EACH EDGE FACE NAIL  |
| CONTINUOUS HEADER TO STUD   | 4-8d (2½" x 0.131")  | TOENAIL   |
| TOP PLATE TO TOP PLATE  | 10d (3" x 0.128")  | 12" O.C. FACE NAIL  |
| DOUBLE TOP PLATE SPLICE   | 8-16d COMMON (3 ½" x 0.162")   | FACE NAIL ON EACH SIDE OF END JOINT (MIN. 24<br>LAP SPLICE LENGTH EACH SIDE OF END JOINT) |
| BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST,<br>OR BLOCKING (NOT AT BRACED WALL PANELS)    | 16d COMMON (3 ½" x 0.162")   | 16" O.C. FACE NAIL  |
| BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST,<br>OR BLOCKING (AT BRACED WALL PANEL)         | 3-16d BOX (3 ½" x 0.135")  | 3 EACH 16" O.C. FACE NAIL   |
| TOP OR SOLE PLATE TO STUD, END NAIL   | 4-8d BOX (2 ½" x 0.113") - TOENAIL; 3-16d BOX (3 ½" x 0.135") - END NAIL             | TOENAIL, END NAIL (SEE LEFT)  |
| TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS   | 3-10d BOX (3" x 0.128")  | FACE NAIL   |
| 1" BRACE TO EACH STUD AND PLATE   | 3-8d BOX (2 ½" x 0.113")   | FACE NAIL   |
| 1"x6" SHEATHING TO EACH BEARING   | 3-8d BOX (2 ½" x 0.113")   | FACE NAIL   |
| 1"x8" SHEATHING TO EACH BEARING   | 3-8d BOX (2 ½" x 0.113") - FACE NAIL; WIDER THAN<br>1"x8" - 4-8d BOX (2 ½" x 0.113") | FACE NAIL   |
|   | FLOOR  |   |
| JOIST TO SILL, TOP PLATE, OR GIRDER   | 4-8d BOX (2 ½" x 0.113")   | TOE NAIL  |
| RIM JOIST, BAND JOIST, OR BLOCKING TO SILL OR<br>TOP PLATE (ROOF APPLICATIONS ALSO)         | 8d BOX (2 ½" x 0.113")   | 4" O.C. TOE NAIL  |
| 1" x 6" SUBFLOOR OR LESS TO EACH JOIST  | 3-8d BOX (2 ½" x 0.113")   | FACE NAIL   |
| 2" SUBFLOOR TO JOIST OR GIRDER  | 3-16d BOX (3 ½" x 0.135")  | BLIND AND FACE NAIL   |
| 2" PLANKS (PLAN & BEAM - FLOOR AND ROOF)  | 3-16d BOX (3 ½" x 0.135")  | AT EACH BEARING, FACE NAIL  |
| BAND OR RIM JOIST TO JOIST  | 3-16d COMMON (3 ½" x 0.162")   | END NAIL  |
| BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS  | 10d BOX (3" x 0.128")  | 24" O.C. FACE NAIL AT TOP AND BOTTOM<br>STAGGERED ON OPPOSITE SIDES                       |
| LEDGER STRIP SUPPORTING JOISTS OR RAFTERS   | 4-16d BOX (3 ½" x 0.135")  | AT EACH JOIST OR RAFTER, FACE NAIL  |
|   |  | <del> </del>  |

| CRIPTION OF BUILDING MATERIAL WOOD STRUCTURAL PANELS, SU | S DESCRIPTION OF FASTENER IBFLOOR, ROOF AND INTERIOR WALL SHE  | EDGE SPACING (INCHES)  ATHING TO FRAMING AND PARTICLEBOA | INTERMEDIATE SUPPORTS  RD WALL SHEATHING TO FRA |
|--|--|--|---|
| ¾" - ½"  | 6d COMMON (2" x 0.113") NAIL<br>(SUBFLOOR, WALL) 8d COMMON NAIL<br>(ROOF)  | 6  | 12  |
| <sup>19</sup> / <sub>32</sub> " - 1"                     | 8d COMMON NAIL (2½" x 0.131")  | 6  | 12  |
| 11/8" - 11/4"  | 10d COMMON (3" x 0.148") NAIL OR 8d<br>(2½" x 0.131") DEFORMED NAIL  | 6  | 12  |
|  | OTHER WALL   | . SHEATHING 1  |   |
| ½" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING            | $1\frac{1}{2}$ " GALVANIZED ROOFING NAIL, $\frac{7}{16}$ " HEAD DIAMETER, OR $1\frac{1}{4}$ " LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN | 3  | 6   |
| 登" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING            | $1\frac{3}{4}$ " GALVANIZED ROOFING NAIL, $\frac{7}{16}$ " HEAD DIAMETER, OR $1\frac{1}{2}$ " LONG 16 GA. STAPLE WITH $\frac{7}{16}$ " OR 1" CROWN | 3  | 6   |
| ½" GYPSUM SHEATHING                                      | 1½" GALVANIZED ROOFING NAIL;<br>STAPLE GALVANIZED, 1½" LONG; 1½"<br>SCREWS, TYPE W OR S  | 7  | 7   |
| %" GYPSUM SHEATHING                                      | 1¾" GALVANIZED ROOFING NAIL;<br>STAPLE GALVANIZED, 1½" LONG; 1½"<br>SCREWS, TYPE W OR S  | 7  | 7   |
| W  | OOD STRUCTURAL PANELS, COMBINATIO  | N SUBFLOOR UNDERLAYMENT TO FRAM                          | ING   |
| ¾" AND LESS  | 6d DEFORMED (2" x 0.120") NAIL OR 8d<br>COMMON (2½" x 0.131") NAIL   | 6  | 12  |
| 7∕ <sub>8</sub> " - 1"                                   | 8d COMMON (2½" x 0.131") NAIL OR 8d<br>DEFORMED (2½" x 0.120") NAIL  | 6  | 12  |
| 11/8" - 11/4"  | 10d COMMON (3" x 0.148") NAIL OR 8d<br>DEFORMED (2½" x 0.120") NAIL  | 6  | 12  |

#### **FOUNDATION NOTES**

CONCRETE SHALL BE AIR-ENTRAINED BETWEEN 5%-7% WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2500 PSI FOR BASEMENT AND INTERIOR FLOOR SLABS-ON-GRADE, 3000 PSI FOR FOUNDATION WALLS, AND 3500 PSI FOR PORCHES AND GARAGE FLOOR SLARS

OF 6" OF GRAVEL OR CRUSHED ROCK. THE DRAIN SHALL DAYLIGHT BELOW FOOTING LEVEL OR TERMINATE IN A

- THE FOUNDATION DESIGN SHALL COMPLY WITH THE ENFORCING JURISDICTION'S RESIDENTIAL FOUNDATION STANDARDS
- PROVIDE A MINIMUM 4"-DIAMETER PERFORATED DRAIN PIPE ALONG PERIMETER OF USABLE SPACE AT FOOTING LEVEL OR OTHER EQUIVALENT MATERIALS PER IRC SECTION R405.1. THE PIPE SHALL BE COVERED WITH A MINIMUM
- MINIMUM 20 GALLON SUMP PIT FOUNDATION SHALL BE DESIGNED FOR A BEARING CAPACITY OF 1500 PSF AND FOUNDED ON COMPETENT ORIGINAL SOIL AS DETERMINED AND CONFIRMED BY A LICENSED GEOTECHNICAL ENGINEER OR ENGINEERING GEOLOGIST. ENGINEER OF RECORD ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION NOT VERIFIED TO BE FOUNDED ON ANY
- SOIL WITH THE AFOREMENTIONED MINIMUM PROPERTIES. 5. FOOTINGS SHALL BE A MINIMUM OF 16" WIDE x 8" DEEP AND SHALL HAVE A MINIMUM OF (2) CONTINUOUS GRADE 40
- #4 BARS WITH 3" BOTTOM CLERANCE. BOTTOM OF FOOTING SHALL BE LOCATED A MINIMUM OF 3'-0" BELOW GRADE FOR FROST PROTECTION. CONCRETE PADS SUP0PORTING COLUMN LOADS SHALL BE NO SMALLER THAN 2'-0" x 2'-0" x 1'-0" DEEP WITH A
- MINIMUM OF (4) GRADE 40 #4 BARS EACH WAY WITH 3" BOTTOM CLEARANCE FOUNDATION WALLS SHALL BE A MINIMUM OF 8" NOMINAL WIDTH AND SHALL HAVE HOIZONTAL GRADE 40 #4 BARS
- AT 2'-0" O.C. MAX. WITH VERTICAL #4 BARS AS REQUIRED ON FOUNDATION CROSS SECTION ON SHEET S2.0
- REINFORCEMENT SHALL LAP A MINIMUM OF 2'-0" (CLASS B SPLICE) INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB
- BASEMENT FLOOR SLAB SHALL BE A MINIMUM OF 4" THICK ON A MINIMUM BASE COURSE OF 4" TO 6" OF SAND. GRAVEL OR CRUSHED ROCK. BETWEEN THE BASE COURSE AND FLOOR SLAB SHALL BE PLACED A 6-MIL POLY VAPOR RETARDER WITH MINIMUM OVERLAP OF 6" AT DISCONTINUITIES
- 11. IF A FLOOR IS TO BE SUPPORTED BY A MINIMUM OF 2'-0" OF GRANULAR FILL OR 8" OF EARTH, BASEMENT SLAB SHALL BE DESIGNED BY A LICENSED ENGINEER
- SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WALL WITH 1/2" Ø ANCHOR BOLTS EMBEDDED A MINIMUM OF 7" INTO CENTER OF WALL STEM AND SHALL BE INSTALLED AT A MAXIMUM OF 6'-0" O.C. (OR AS NOTED ON PLANS) AND SHALL BE INSTALLED WITHIN 6" TO 12" OF EACH END OF EACH SILL PLATE LENGTH, PER IRC SECTION R403.1.6
- 13. FOUNDATION WINDOW WELLS SHALL BE PROVIDED WITH MINIMUM DIMENSIONS AS SHOWN IN DETAIL ON SHEET 14. THE GARAGE FLOOR SHALL SLOPE TOWARD THE VEHICLE DOORS OR TO A TRENCH OR UNTRAPPED DRAIN THAT
- DISCHARGES TO THE EXTERIOR. ABOVE GRADE

#### FRAMING NOTES

- 15. ALL DIMENSIONAL LUMBER SHALL BE DOUGLAS-FIR-LARCH GRADE #2, UNLESS NOTED OTHERWISE ON PLANS ALL INTERIOR LOAD-BEARING AND EXTERIOR WALL HEADERS SHALL BE (2) #2 - 2x10's, UNLESS NOTED OTHERWISE
- BLOCK OVER BEAMS AND AT CANTILEVERS AND DOOR JAMBS INTERIOR NON-BEARING WALLS RESTING ON BASEMENT SLAB SHALL BE ISOLATED FROM ABOVE FRAMING BY A
- MINIMUM OF 1/2 ALL HEADERS/BEAMS SHALL BEAR ON A MINIMUM OF (2) 2x4 POSTS (KING AND JACK STUDS), UNLESS NOTED OTHERWISE
- WHERE JOISTS SPAN PARALLEL TO FOUNDATION, BLOCKING SHALL BE PROVIDED IN THE TWO SPACES MOST ADJACENT TO THE FOUNDATION WALL AT 4'-0" O.C. FOR THE PURPOSE OF TRANSFERRING LATERAL FOUNDATION WALL LOAD TO THE FLOOR DIAPHRAGM. FASTEN JOISTS AND BLOCKING TO SILL PLATE WITH (4) 10d NAILS. IF MECHANICAL DUCTWORK IS INSTALLED IN ONE OF THESE FIRST TWO BAYS, FASTEN 2x4's FLAT AT 4'-0" O.C. BETWEEN JOIST(S) AND/OR SILL AND PROVIDE BLOCKING AS PRESCRIBED ABOVE IN THE NEXT TWO JOIST BAYS. SECURE 2x4's TO JOIST(S)/SILL PLATE WITH (4) 10d NAILS
- ALL WOOD MATERIAL SUPPORTED ON CONCRETE OR MASONRY SHALL BE TREATED OR OF DECAY-RESISTANT
- 22. JOISTS UNDER BEARING PARTITIONS ON PLANS HAVE BEEN SIZED TO SUPPORT THE DESIGN LOAD. JOISTS FRAMING INTO THE FACE OF A STEEL OR WOOD BEAM SHALL BE SUPPORTED WITH APPROPRIATE **COLD-FORMED STEEL JOIST HANGERS**
- JOISTS FRAMED ON TOP OF STRUCTURAL MEMBER SHALL BE SUPPORTED AT EN DS BY FULL-DEPTH SOLID BLOCKING MIN. 1/4" IN THICKNESS OR BY FASTENING RIM TO JOISTS PER FASTENING TABLE TO LEFT
- ALL WALL COVERINGS SHALL COMPLY WITH IRC SECTION R702.3
- ALL RAFTERS AND COLLAR TIES SHALL COMPLY WITH IRC SECTION R802.3.
- ALL RAFTERS SHALL HAVE 2x4 COLLAR TIES @ 4'-0" O.C. IN UPPER ⅓ OF VERTICAL DISTANCE BETWEEN CEILING AND
- BLOCKING BETWEEN JOISTS UNDER A LOAD-BEARING WALL IS NOT REQUIRED
- PER IRC SECTION 501.3, BOTTOM OF ALL FLOOR ASSEMBLIES ABOVE UNFINISHED AREAS SHALL BE PROVIDED WITH A 1/2" GYPSUM BOARD MEMBRANE OR RESIDENTIAL FIRE SPRINKLER SYSTEM WHEN FLOOR SYSTEM IS CONSTRUCTED OF OTHER THAN DIMENSION LUMBER OR STRUCTURAL COMPOSITE LUMBER EQUAL TO OR GREATER THAN 2x10 NOMINAL DIMENSION(WHERE REQUIRED BY ENFORCING JURISDICTION)
- ENGINEERED LVL's SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E=1900 ksi, AND Fv=285 psi ENGINEERED PARALLAMS SHALL HAVE MINIMUM PROPERTIES OF Fb = 2600 psi, E = 2000 ksi, AND Fv = 290 psi
- COLUMN CONNECTION TO STEEL BEAMS SHALL BE WITH A CLIP POST CAP WITH ALL FOUR TAB EARS BENT AROUND THE BOTTOM FLANGE OF THE BEAM. FOR A BEARING PLATE, FOUR HOLES SHALL BE DRILLED IN THE BOTTOM FLANGE OF THE STEEL BEAM TO MATCH THE HOLE PATTERN OF THE PLATE.  $\frac{1}{2}$ " x 2" BOLTS SHALL THEN BE INSTALLED WITH A FLAT WASHER, LOCK WASHER, AND A NUT IN EACH OF THE HOLES. THE POST CAP MAY BE
- WELDED TO THE STEEL BEAM IN ACCORDANCE WITH AWS D1.1-92 AS AN ALTERNATIVE, AND WOULD NEED TO BE INSPECTED BY AN AWS-CERTIFIED INSPECTOR. 33. WHEN MECHANICAL EQUIPMENT IS LOCATED IN AN ENCLOSED ROOM, THERE SHALL BE (2) 14"x12" VENTS LOCATED IN A WALL COMMON WITH ADDITIONAL LIVING AREA. ONE VENT SHALL BE LOCATED SUCH THAT THE BOTTOM OF
- THE VENT BEGINS 12" FROM THE FLOOR AND THE OTHER VENT SHALL BE LOCATED SUCH THAT THE TOP OF THE VENT BEGINS 12" FROM THE CEILING.
- 34. ALL ROOF SHEATHING SHALL BE  $\frac{7}{16}$ " OSB WITH 8d COMMON NAILS @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. IN FIELD

- 35. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC SECTION R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 2'-0" ARC OF THE DOOR IN A CLOSED POSITION AND FOR WHICH THE BOTTOM EDGE IS WITHIN 5'-0" OF THE FLOOR, WALLS ENCLOSING STAIRWAYS AND LANDINGS WHERE THE GLAZING IS WITHIN 5'-0" OF THE TOP OR BOTTOM OF THE STAIR, ENCLOSURES FOR SPAS, TUBS, SHOWERS, AND WHIRLPOOLS, GLAZING IN FIXED OR OPENABLE PANELS EXCEEDING NINE SQUARE FEET AND FOR WHICH THE BOTTOM EDGE IS LESS THAN 1'-6" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 3'-0"
- ALL OPERABLE WINDOWS SHALL HAVE FALL PROTECTION PER IRC SECTION R612.2

37. ENCLOSED ATTICS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATING OPENINGS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE MESH, WITH 1/8" TO 1/4" OPENINGS. THE TOTAL FREE VENTILATING AREA SHALL NOT BE LESS THAN  $\chi_{50}$  OF THE AREA OF SPACE VENTILATED, EXCEPT WHERE THE VENTILATORS ARE LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED - THE REQUIRED AREA MAY BE REDUCED TO 1/300.

### **EMERGENCY EGRESS**

- 38. PROVIDE A MINIMUM OF ONE WINDOW FOR EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPENABLE HEIGHT OF 2'-0" AND A MINIMUM WIDTH OF 1'-9". IN ADDITION, THE OPENABLE PORTION OF EGRESS WINDOWS SHALL NOT EXCEED 3'-8" ABOVE THE ADJOINING FLOOR OR PERMANENT STEP.
- 39. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR, INCLUDING BASEMENT (IF APPLICABLE). ALARMS SHALL BE HARDWIRED TOGETHER SO THAT THE ACTIVATION OF ONE SMOKE ALARM WILL ACTIVATE ALL SMOKE ALARMS IN THE DWELLING. PROVIDE CARBON MONOXIDE DETECTORS OUTSIDE EACH SLEEPING AREA.

#### MASONRY VENEER

- 40. MASONRY VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL STUDS WITH CORROSION-RESISTANT METAL TIES EMBEDDED IN MORTAR OR GROUT AND EXTENDING INTO THE VENEER A MINIMUM OF 1½", WITH NOT LESS THAN 5/8" MORTAR OR GROUT COVER TO OUTSIDE FACE
- 41. VENEER TIES, IF STRAND WIRE, SHALL NOT BE LESS IN THICKNESS THAN NO. 9 U.S. GAGE WIRE AND SHALL HAVE A HOOK EMBEDDED IN THE MORTAR JOINT, OR IF SHEET METAL, SHALL BE NOT LESS THAN NO. 22 U.S. GAGE BY 1/8"
- 42. EACH TIE SHALL SUPPORT NOT MORE THAN 2.67 SQUARE FEET OF WALL AREA AND SHALL BE SPACED NOT MORE THAN 32 INCHES ON CENTER HORIZONTALLY AND 24 INCHES ON CENTER VERTICALLY.
- 43. VENEER TIES AROUND WALL OPENINGS: ADDITIONAL METAL TIES SHALL BE PROVIDED AROUND ALL WALL OPENINGS GREATER THAN 16 INCHES IN EITHER DIMENSION. METAL TIES AROUND THE PERIMETER OF OPENINGS SHALL BE SPACED NOT MORE THAN 3 FEET ON CENTER AND PLACED WITHIN 12 INCHES OF THE WALL OPENING.

#### **GARAGE NOTES**

- 44. DOOR(S) BETWEEN THE GARAGE AND DWELLING SHALL BE MINIMUM 1%" SOLID CORE OR HONEY-COMBED STEEL
- DOOR WITH 20-MINUTE FIRE RATING EQUIPPED WITH A SELF-CLOSING DEVICE 45. VEHICLE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115-MPH 3-SECOND GUST
  - LOADING PER DASMA 108 AND ASTM E 330-96 PER IRC 2018

#### GARAGE NOTES (CONTINUED)

- THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY MINIMUM %" GYP, BOARD APPLIED TO THE GARAGE SIDE OF FRAMING. WHERE HABITABLE SPACE OCCURS ABOVE THE GARAGE. THE GARAGE CEILING ASSEMBLY SHALL BE PROTECTED WITH A MINIMUM 3/8" TYPE X GYP. BOARD. WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE THE GARAGE COLUMNS AND BEAMS
- SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED WITH %" GYP. BOARD. GARAGE DOOR H-FRAME FOR THE ATTACHMENT OF THE TRACK AND COUNTER BALANCE SHALL CONSIST OF THE FOLLOWING: 2x6 VERTICAL JAMBS RUNNING FROM FLOOR TO CEILING AND SHALL BE FASTENED WITH 2½"" x 0.120" NAILS AT 7" O.C. STAGGERED WITH (7) 31/4" x 0.120" NAILS THROUGH THE JAMB INTO THE HEADER. MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER BALANCE SYSTEM.

#### DESIGN LOADING (PER TABLE R301.5)

| MINIMUM UNIFORMLY DISTRIB                            |                  |                                     |  |  |  |  |
|--|------------------|-------------------------------------|--|--|--|--|
| USE  | LIVE LOAD        | DEAD LOAD                           |  |  |  |  |
| UNINHABITABLE ATTICS WITHOUT STORAGE                 | 10               | 10                                  |  |  |  |  |
| UNINHABITABLE ATTICS WITH LIMITED<br>STORAGE         | 20               | 10                                  |  |  |  |  |
| HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS | 30               | 10                                  |  |  |  |  |
| BALCONIES (EXTERIOR) AND DECKS                       | 40               | 10 <sup>d</sup>                     |  |  |  |  |
| FIRE ESCAPES   | 40               | 10                                  |  |  |  |  |
| GUARDRAILS AND HANDRAILS <sup>a</sup>                | 200 <sup>c</sup> | -                                   |  |  |  |  |
| GUARDRAIL IN-FILL COMPONENTS <sup>b</sup>            | 50 <sup>c</sup>  | -                                   |  |  |  |  |
| PASSENGER VEHICLE GARAGES                            | 50               | DEPENDENT UPON SLAB<br>CONSTRUCTION |  |  |  |  |
| ROOMS OTHER THAN SLEEPING ROOM                       | 40               | 10 <sup>d</sup>                     |  |  |  |  |
| SLEEPING ROOM  | 30               | 10 <sup>d</sup>                     |  |  |  |  |
| STAIRS   | 40               | 10 <sup>d</sup>                     |  |  |  |  |
|  |                  |                                     |  |  |  |  |

- a. A single concentrated load applied in any direction at any point along the top.
- b. Guard in-fill components (all those except the handrail), ballusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to one square foot. This load need not be assumed to act concurrently with any other live load requirement.
- c. Glazing used in handrail assemblies and guards shall be designed with a safety factor of 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the infill components. These loads shall be determined independently of one another, and loads are assumed not to occur with any other live load.
- d. An additional dead loading of 10 psf shall be applied where thinset tile floor is to be installed. An additional dead loading of 50 psf shall be applied where mudset tile floor is to be installed

#### INSULATION/EFFICIENCY

- BUILDING ENVELOPE INSULATION SHALL COMPLY WITH IRC TABLE N1102 1 1 OR THE 2012 IECC (SEE SHEET S3.1 FOR FRAMING DETAILS AND TABLES ON THIS SHEET FOR MORE INFORMATION)
- CATHEDRAL -VAULTED CEILING FRAMING SHALL BE FRAMED WITH A MINIMUM INSULATION VALUE OF R-38. IF VAULTED RAFTERS DO NOT PROVIDE REQUIRED DEPTH TO ACHIEVE R-38 INSULATION BUILDER SHALL FUR DOWN RAFTERS PER DETAILS PROVIDED ON

| INDIA TION AND TENEDED ATION DECILIDE            | NATIONAL COMPONIENT (TABLE NIA400 4.4) |
|--|--|
| INSULATION AND FENESTRATION REQUIRE CLIMATE ZONE | I 4-A                                  |
| FENESTRATION U-FACTOR                            | 0.35                                   |
| SKYLIGHT U-FACTOR                                | 0.55                                   |
| GLAZED FENSTRATION SHGC                          | 0.40                                   |
| CEILING R-VALUE                                  | 49                                     |
| WOOD FRAME WALL R-VALUE                          | 15                                     |
| MASS WALL R-VALUE                                | 8 / 13                                 |
| FLOOR R-VALUE                                    | 19                                     |
| BASEMENT WALL R-VALUE                            | 10-CONTINUOUS OR 13-CAVITY             |
| SLAB R-VALUE AND DEPTH                           | 10 AT 2'-0"                            |
| CRAWL SPACE WALL R-VALUE                         | 10-CONTINUOUS OR 13-CAVITY             |
| DUCTWORK EXPOSED TO OUTSIDE AIR<br>R-VALUE       | 8                                      |
| DUCTWORK NOT EXPOSED TO OUTSIDE<br>AIR R-VALUE   | 6                                      |
| CATHEDRAL VAULTED CEILING R-VALUE                | 38                                     |

### DUCT SEALING

N1103.2.2 (R403.2.2) SEALING (MANDATORY). DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.4.1 OF 2018 IRC **EXCEPTIONS:** 

- AIR-IMPERMEABLE SPRAY FOAM PRODUCTS SHALL BE PERMITTED TO BE APPLIED WITHOUT ADDITIONAL JOINT SEALS.
- WHERE A DUCT CONNECTION IS MADE THAT IS PARTIALLY INACCESSIBLE, THREE SCREWS OR RIVETS SHALL BE EQUALLY SPACED ON THE EXPOSED PORTION OF THE JOINT SO AS TO PREVENT A HINGE EFFECT.
- CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS IN DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES OF WATER COLUMN PRESSURE CLASSIFICATION SHALL NOT REQUIRE ADDITIONAL CLOSURE SYSTEMS.

#### DUCT TIGHTNESS SHALL BE VERIFIED BY EITHER OF THE FOLLOWING:

- POST-CONSTRUCTION TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE ENTIRE SYSTEM. INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.
- ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. ACROSS THE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST, TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA.

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

| ME                        |                                | N SYSTEM FAN EFFICA            |                                |
|---------------------------|--------------------------------|--------------------------------|--------------------------------|
| FAN LOCATION              | AIR FLOW RATE<br>MINIMUM (CFM) | MINIMUM EFFICACY<br>(CFM/WATT) | AIR FLOW RATE<br>MAXIMUM (CFM) |
| RANGE HOODS               | ANY                            | 2.8                            | ANY                            |
| IN-LINE FAN               | ANY                            | 2.8                            | ANY                            |
| BATHROOM, UTILITY<br>ROOM | 10                             | 1.4                            | 90                             |
| BATHROOM, UTILITY<br>ROOM | 90                             | 2.8                            | ANY                            |



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|          |             |     |        |        |    |            |
|          |             |     |        |        |    |            |
|          |             |     |        |        |    |            |
|          |             |     |        |        |    |            |
| DRAN     | WING TITLE  |     |        |        |    |            |
| S        | TRI         | JC  | TL     | JR     | χA | ١L         |
|          | Ν           | O   | ГΕ     | S      |    |            |
|          |             |     |        |        |    |            |
| ENGI     | NEER: DIV   | 1H  | CHEC   | KED BY | DΝ | <u>//H</u> |
|          | vo. 402     |     | DRAW   | N BY:  | DΝ | <u>//H</u> |
| DATE     | : 10-29     | -21 |        |        |    |            |
| CHE      | T NII IMDED |     |        |        |    |            |

#### RESIDENTIAL SEISMIC & WIND ANALYSIS

|                                     |                  |                  |                     | INPUT            |
|-------------------------------------|------------------|------------------|---------------------|------------------|
| DETERMINE WEIGHT OF HOUSE:          |                  |                  |                     | CALCULATED VALUE |
| LOCATION                            |                  | DEAD LOAD (psf)  | AREA (ft²)          | WEIGHT (lbs.)    |
| ROOF                                | ·                | 10               | 1974                | 19740            |
| CEILING                             |                  | 10               | 1974                | 19740            |
| SECOND FLOOR                        |                  | 10               | 1304                | 13040            |
| FIRST FLOOR                         |                  | 10               | 1974                | 19740            |
|                                     | WALL LENGTH (ft) | WALL HEIGHT (ft) | WALL UNIT WT. (psf) | WEIGHT (lbs)     |
| SECOND FLOOR EXT. WALL DL           | 173.34           | 9                | 9                   | 14040.54         |
| FIRST FLOOR EXT. WALL DL            | 193.34           | 10               | 10                  | 19334            |
|                                     |                  | DEAD LOAD (psf)  | AREA (ft2)          | WEIGHT (lbs)     |
| SECOND FLOOR INT. PARTITION WALL DL |                  | 6                | 1304                | 7824             |
| FIRST FLOOR INT. PARTITION WALL DL  | ,                | 6                | 1974                | 11844            |

|                   |                  |        | DESIGN PER 115 MPH :            | 3-SECOND GUST, EXPOS | URE C AND MEAN ROOF HEIGHT <= 3 | 30 FT ASSUMED) |                         |  |  |
|-------------------|------------------|--------|---------------------------------|----------------------|---------------------------------|----------------|-------------------------|--|--|
|                   | FRONT-TO-BACK    |        |                                 |                      | SIDE-TO-S                       | IDE            |                         |  |  |
|                   | AREA             | LOAD   | i i                             |                      | AREA                            | LOAD           |                         |  |  |
| SLOPED ROOF       | 187              | 801    |                                 | SLOPED ROOF          | 204                             | 898            |                         |  |  |
| VERT. ROOF        | 25               | 342    | CUMULATIVE                      | VERT. ROOF           | 0                               | 0              | CUMULATIVE              |  |  |
| 2ND               | 415              | 5871   | 7014                            | 2ND                  | 451.7                           | 6299           | 7197                    |  |  |
| 1ST               | 566.5            | 7739   | 14753                           | 1ST                  | 496.87                          | 6928           | 14125                   |  |  |
| BSMT <sup>a</sup> | 0                | 0      | 0                               | BSMT <sup>a</sup>    | 82                              | 1427           | 8489                    |  |  |
|                   |                  |        | PRESSURE (PSF) - PER ASCE CH. 6 |                      |                                 |                |                         |  |  |
|                   | SLOPED ROOF      | ZONE B |                                 | 5.9                  | ZONE C                          | 11.6           | 2a (FIG. 28.6-1, ASCE7) |  |  |
|                   | WALL/VERT. ROOF  | ZONE A |                                 | 17.4                 | ZONE D                          | 3.4            | 9.034                   |  |  |
| I                 | MEAN ROOF HT., h |        | 30                              |                      |                                 |                | -                       |  |  |

a) If there is a walkout wall to be sheathed, determine tributary wind area and enter here. If no walkout, enter 0 for area.

 $q_{z10}$ =0.00256 $K_z K_{zt} K_d V^2$  (ASCE7-10 Velocity Pressure)

 $q_{z10\_ASD} \text{=} 0.6 \\ q_{z10} \quad \text{(Design Velocity Pressure for ASD analysis under ASCE7-10 and IRC/IBC 2012)}$ 

2ND FLOOR TRIBUTARY WEIGHT 1ST FLOOR TRIBUTARY WEIGHT BASEMENT TRIBUTARY WEIGHT S<sub>8</sub> (SITE GROUND MOTION - %g - FROM ASCE7 SEISMIC MAP) F<sub>a</sub> (from ASCE7 Table 11.4-1) S<sub>DS</sub> (= 2/3 \* S<sub>S</sub> \* F<sub>a</sub>) R (from ASCE7 Table 12.2-1)

|           | SEISMIC SHEAR            |  |
|-----------|--------------------------|--|
| LOCATION  | From ASCE7 (Eq. 12.8-1): | V (= 1.2 * S <sub>DS</sub> * W / R) (lbs.) |
| 2ND FLOOR |                          | 1099                                       |
| 1ST FLOOR |                          | 1986                                       |
| BASEMENT  |                          | 1986                                       |

| Sheathing Location   | Min. Sheathing Schedule  | Fastening Schedule   | Allowable Shear (#/LF) | Code Reference              |
|----------------------|--|--|------------------------|-----------------------------|
| Exterior (Option #1) | 7/16" APA Rated Plywood/OSB  | 1-1/2" 16ga. Staples w/ 1" penetration@ 6" OC Edges, 6" OC Field For 24" stud specing, 12" OC Field For 16" stud specing   | 155                    | per IBC, Table<br>2305.3(1) |
| Exterior (Option #2) | 7/16" APA Rated Plywood/OSB  | 1-1/2" 16ga. Staples w/ 1" penetration@ 4" OC Edges, 6" OC Field For 24" stud specing, 12" OC Field For 16" stud specing   | 230                    | per IBC, Table<br>2306.3(1) |
| Exterior (Option #3) | 7/16" APA Rated Plywood/OSB  | 1-1/2" 16ga. Staples w/ 1" penetration@ 3" OC Edges, 6" OC Field For 24" stud spscing, 12" OC Field For 16" stud spscing   | 310                    | per IBC, Table<br>2308.3(1) |
| Exterior (Option #4) | 7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing  | 8d Common Nails w/ 1-3/8" penetration @ 6" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 4" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing | 220                    | AF&PA SDPW<br>Table 4.3A    |
| Exterior (Option #5) | 7/16" APA Rated Plywood/OSB or shiplap panel sheathing, or 3/8" shiplap panel sheathing with tighter nail spacing  | 8d Common Nails w/ 1-3/8" penetration @ 4" O.C. Edges, 12" O.C. Field for 7/16" APA-rated plywood/OSB or shiplap panel sheathing OR @ 3" O.C. Edges, 12" O.C. Field for 3/8" shiplap panel sheathing | 320                    | AF&PA SDPW<br>Table 4.3A    |
| Exterior (Option #6) | 7/16" APA Rated Plywood/OSB or shiplap panel<br>sheathing, or 3/8" shiplap panel sheathing with<br>tighter nail spacing and double studs at each<br>panel edge | 8d Common Nails w/ 1-3/8" penetration @ 3" O.C. Edges, 12"<br>O.C. Field   | 410                    | AF&PA SDPW<br>Table 4.3A    |
| Interior             | 1/2" Gypsum Board  | No. 6- 1 <sup>1</sup> / <sub>4</sub> " Type W or S Screws @ 8" O.C. Edges, 12" O.C. Field  | 60                     | per IBC, Table<br>2306.4.4  |
| Interior             | 16 Ga. Simpson/USP Type WB Steel X-Brace (or equal)  | (3) 16d @ end studs & (1) 8d @ intermediate studs (per manufacturer specifications - see detail on sheet S3)   | 325                    |                             |

| EXTERIOR SHEATHING OPTION FOR SECOND FLOOR   | 4 |
|--|---|
| EXTERIOR SHEATHING OPTION FOR FIRST FLOOR    | 5 |
| EXTERIOR SHEATHING OPTION FOR BASEMENT WALLS | 5 |

| WIDTH OF 1ST STORY (FT.)  | 51.5  | WIDTH OF 2ND STORY (FT.) | 41.5  |
|---------------------------|-------|--------------------------|-------|
| DEPTH OF 1ST STORY (FT.)  | 45.17 | DEPTH OF 2ND STORY (FT.) | 45.17 |
| BACK WALL OF GARAGE (FT.) | 0     |                          |       |
| GAR. WALL: 1=F-B, 2=S-S   | 2     |                          |       |

1st Floor S-S

46500.27

84051.54

84051.54

12.0%

1.6

0.128

| EXTERIOR STRUCTURAL WALL LENGTHS (ft.) & RESISTANCES |               |                   |                |                   |                       |                   |                           |                    |  |
|--|---------------|-------------------|----------------|-------------------|-----------------------|-------------------|---------------------------|--------------------|--|
|  |               | SE                | ISMIC          |                   | WIND                  |                   |                           |                    |  |
|  | FRONT-TO-BACK | RESISTANCE (lbs.) | SIDE-TO-SIDE   | RESISTANCE (lbs.) | FRONT-TO-BACK         | RESISTANCE (lbs.) | SIDE-TO-SIDE              | RESISTANCE (lbs.)  |  |
| 2ND FLOOR  | 60            | 16800             | 39.5           | 11060             | 60                    | 23520             | 39.5                      | 15484              |  |
| 1ST FLOOR  | 70            | 26600             | 32             | 12160             | 70                    | 37240             | 32                        | 17024              |  |
| BASEMENT   | 0             | 0                 | 17.5           | 6650              | 0                     | 0                 | 17.5                      | 9310               |  |
|  |               |                   |                | _                 |                       |                   |                           |                    |  |
|  |               | ADDITIONAL RESIS  | TANCE REQUIRED |                   | Anchor Bolt Spacing   | (in.)             | 16d Nail Spacing req'd at | oottom plate (in.) |  |
| SEISMIC WIND   |               |                   | diameter (in.) | 0.5               | 2nd Floor F-B         | 35                |                           |                    |  |
| 2ND FLOOR FRONT-                                     |               | 0                 | 0              |                   | Shear value (per NDS) | 944               | 2nd Floor S-S             | 39                 |  |
| 2ND ELOOP SIDE TO                                    | LSIDE         | 0                 | 0              |                   | Spacing E.B. (inches) | 111.0             | 1et Floor F.B             | 17                 |  |

spacing S-S (inches)

| DACEMENT CIDE TO CIDE   | 0  | 0  |                                   |  |   |  |     |  |
|-------------------------|--|--|-----------------------------------|--|---|--|-----|--|
| BASEMENT SIDE-TO-SIDE   | 0  | 0  |                                   |  |   |  |     |  |
|                         |  |  |                                   |  |   |  |     |  |
|                         | RESISTANCE REQUIRED IN ADDITION TO RESISTANCE PROVIDED BY EXTERIOR WALLS** |  |                                   |  |   |  |     |  |
|                         | ADDITIONAL<br>RESISTANCE<br>REQUIRED (POUNDS)                              | PORTAL FRAMES OR<br>PERF. SHEAR WALL<br>RESISTANCE | INTERIOR X-BRACES<br>(325#/BRACE) | INTERIOR WALL LENGTH W/ 1/2"<br>GYPSUM BOARD PER TABLE (FT.) | INT. WALL LENGTH<br>SHEATHED W/ OSB<br>(TOTAL LENGTH, ONE<br>SIDE, FT.) | RESISTANCE PROVIDED BY<br>ADDITIONAL METHODS<br>(POUNDS) | OK? |  |
| 2ND FLOOR FRONT-TO-BACK | 0  |  |                                   |  |   | 0  | YES |  |
| 2ND FLOOR SIDE-TO-SIDE  | 0  |  |                                   |  |   | 0  | YES |  |
| 1ST FLOOR FRONT-TO-BACK | 0  |  |                                   |  |   | 0  | YES |  |
| 1ST FLOOR SIDE-TO-SIDE  | 0  |  |                                   |  |   | 0  | YES |  |
| BASEMENT FRONT-TO-BACK  | 0  |  |                                   |  |   | 0  | YES |  |
| BASEMENT SIDE-TO-SIDE   | 0  |  |                                   |  |   | 0  | YES |  |

IBASEMENT SIDE-TO-SIDE

\*\*NOTES: 1) SEE ATTACHED CALCULATIONS FOR PORTAL FRAME OR PERFORATED SHEAR WALL RESISTANCE CAPACITIES (IF APPLICABLE). 2) SEE SHEET ST FOR INTERIOR STEEL X-BRACE INSTALLATION, 3) INTERIOR WALLS SHEATHED WITH OSB SHALL BE ATTACHED WITH SAME STAPLE/NAILING PATTERN AS EXTERIOR OSB ON SAME FLOOR (SEE TABLE ABOVE) AND ARE ONLY APPLICABLE FOR FULL-HEIGHT SECTIONS OF 2-8" OR LONGER

| ALL LATERAL BRAC    | ALL LATERAL BRACING ACHIEVED AT EXTERIOR WALLS AND WALLS DIRECTLY ON FOUNDATIONS; THEREFORE, NO INTERIOR BRACING PER 2012 IRC SECTION R502.2.1 IS REQUIRED |                                |                                |                           |                      |                   |                                       |
|---------------------|--|--------------------------------|--------------------------------|---------------------------|----------------------|-------------------|---------------------------------------|
|                     | WIND UPLIFT ANALYSIS   |                                |                                |                           |                      |                   |                                       |
|                     | X/12   | DEGREES                        |                                |                           | _                    | •                 | •                                     |
| ROOF PITCH (MAX)    | 5  | 22.6                           | PITCH OF 6 OR LESS:            | EOH -13.3, E -7.2, G -5.2 |                      |                   |                                       |
|                     | ASCE 7   |                                |                                |                           |                      |                   |                                       |
|                     | LENGTH (FT.) PRESSURE (PSF) LINEAL FT. OF OH UPLIFT PER FT* (LBS)  |                                |                                |                           |                      |                   |                                       |
| OVERHANG            | 1  | 16.56                          | 195.34                         | 16.56                     |                      |                   |                                       |
|                     | TOTAL AREA (FT <sup>2</sup> )  | ZONE E AREA (FT <sup>2</sup> ) | ZONE G AREA (FT <sup>2</sup> ) | PRESSURE ZN. E (PSF)      | PRESSURE ZN. G (PSF) | TOTAL FORCE (LBS) | FORCE PER LINEAL FT @ PERIMETER (LBS) |
| MAIN ROOF**         | 2326.255   | 1239.500936                    | 1086.754064                    | 15.12                     | 10.5                 | 30152             | 156.0                                 |
|                     |  |                                |                                |                           |                      |                   |                                       |
| *ALONG PERIMETER    | ALONG PERIMETER TOTAL UPLIFT PER LINEAL FOOT ALONG EXTERIOR (POUNDS)   |                                |                                | UNDS)                     | 172.5                | UPLIFT OK         |                                       |
| **INSIDE EXTERIOR V | WALLS  | RESISTANCE DUE TO DEAD         | WEIGHT & (3) 10d TOENAILS      | i                         | 251.6                |                   |                                       |

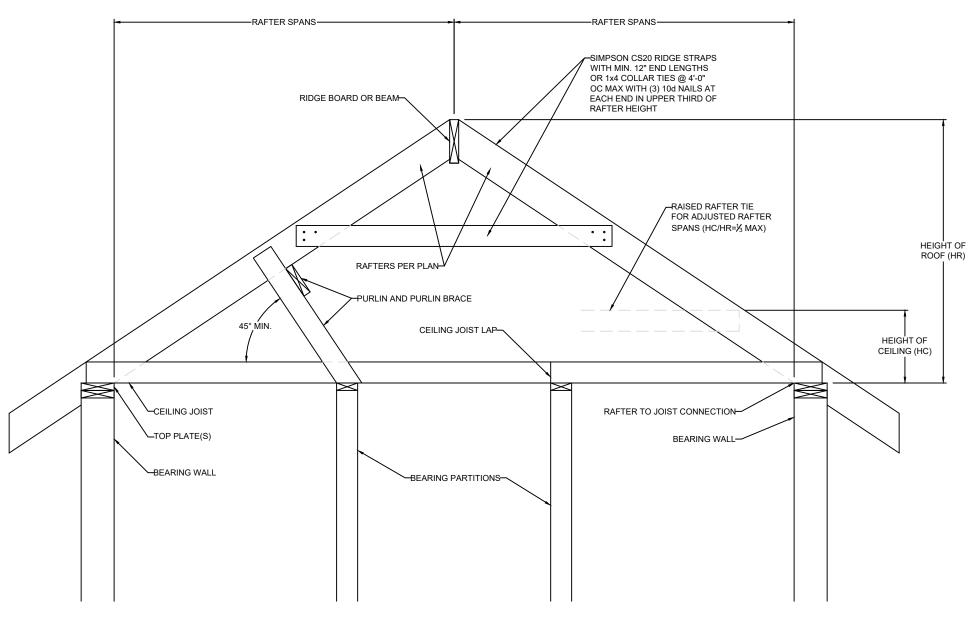
1ST FLOOR FRONT-TO-BACK

1ST FLOOR SIDE-TO-SIDE BASEMENT FRONT-TO-BACK

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

ALL WALLS USED IN THE CALCULATION OF THE RESISTANCE FOR THIS STRUCTURE SHALL HAVE A MINIMUM UNINTERRUPTED HEIGHT OF 8'-0" AND LENGTH OF 2'-8". ALLOWABLE RESISTANCES HAVE BEEN #FT AND INCREASED BY 40% FOR WIND LOADS, PER VALUES IN 2012 IBC SECTION 2306 AND AF&PA SDPWS TABLE 4.3A. FOR EXAMPLE, 7/16" APA-RATED SHEATHING WITH 8d @ 6" & 12" HAS A SEISMIC SHEAR VALUE OF 240

NOTE: SOIL SITE CLASS ASSUMED TO BE CLASS D. IF SITE CONDITIONS ARE DETERMINED TO BE CLASS E OR F, CONSULT ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION



1 BRACED RAFTER CONSTRUCTION S1.1 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



PLAT

2ND

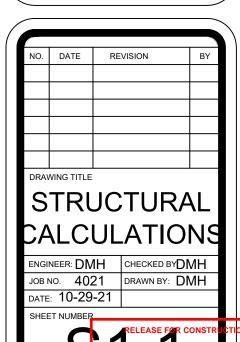
WOODS

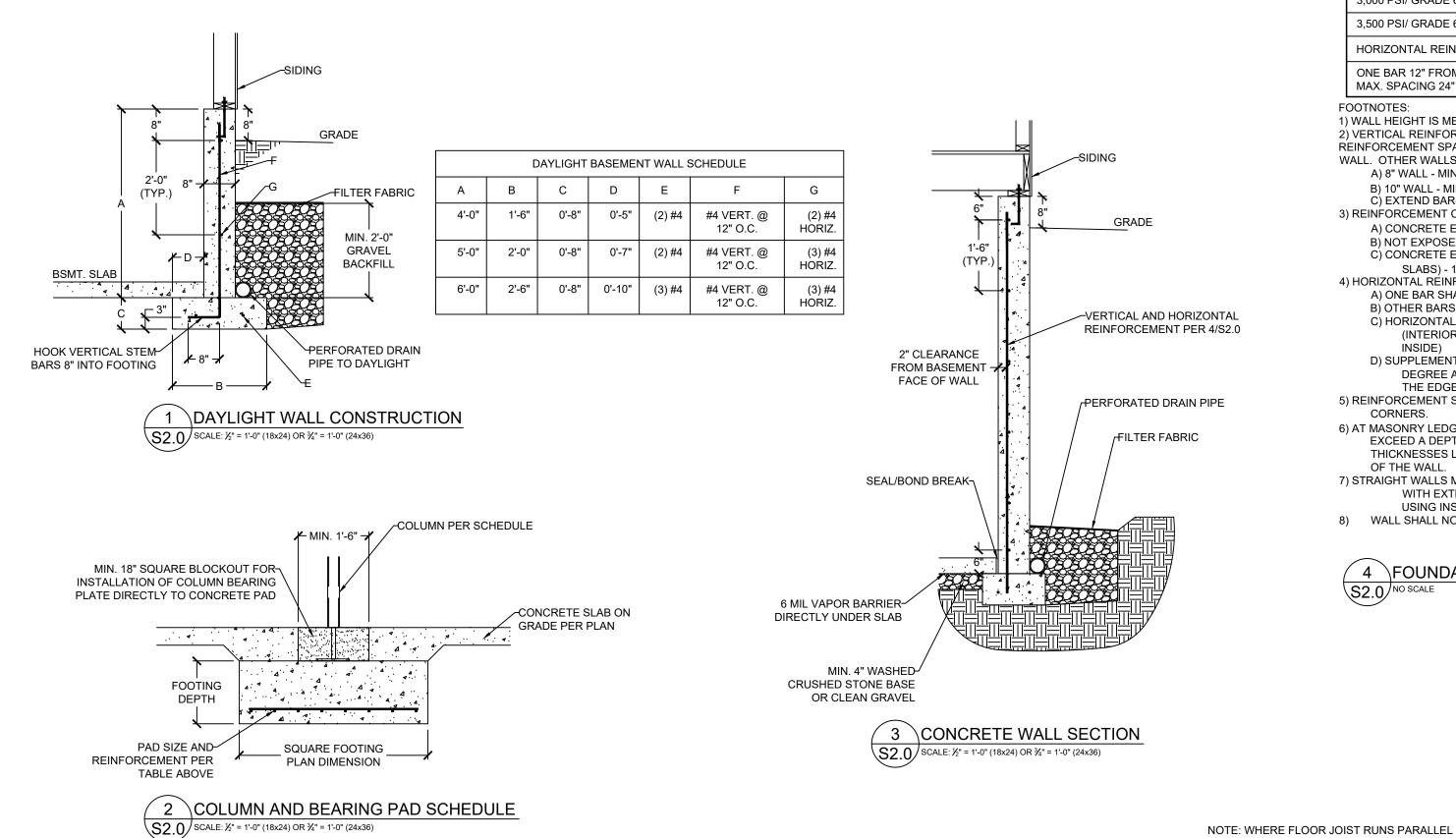
1612 SW 27TH ST. LEE'S SUMMIT, MISSOU

CLIENT: WALKER CUSTOM HOMES, WWS046 SPEC LOT 46, WHISPERING JOB

TITLE:

MANUEL OF MISSON DENNIS HEIER





TYPICAL CORNER REINFORCEMENT:

AT LEAST (1) #4 BAR 48" LONG @

AS CLOSE AS PRACTICAL TO THE CORNER

EACH INSIDE CORNER

NOTE: WHERE OPENINGS OR ABRUPT ELEVATION CHANGES OCCUR IN THE TOP OR BOTTOM OF THE WALL AT LEAST ONE #4 BAR 48" LONG SHALL BE DIAGONALLY

VERTICAL REINFORCEMENT SPACING CONCRETE STRENGTH/GRADE 8" THICK WALL 10" THICK WALL REINFORCEMENT (#4 BARS) 9' 9' 10' 8' 10' 8' 3.000 PSI/ GRADE 40 24 24 16 24 24 18 3,500 PSI/ GRADE 40 24 24 18 16 24 24 3,000 PSI/ GRADE 60 24 24 24 18 16 24 3,500 PSI/ GRADE 60 24 24 24 18 24 16 HORIZONTAL REINFORCEMENT - MINIMUM GRADE 40 STEEL ONE BAR 12" FROM TOP OF WALL; 6-#4 7-#4 7-#4 6-#4 7-#4 7-#4 MAX. SPACING 24" OC

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 SPACING 24" OC, REINFORCEMENT MAY BE PLACED IN THE MIDDLE OF THE WALL. OTHER WALLS SHALL HAVE VERTICAL REINFORCEMENT AS FOLLOWS:

A) 8" WALL - MINIMUM 5" FROM THE OUTSIDE FACE

B) 10" WALL - MINIMUM 63/4" FROM THE OUTSIDE FACE C) EXTEND BARS TO WITHIN 8" OF THE TOP OF THE WALL

3) REINFORCEMENT CLEARANCES:

A) CONCRETE EXPOSED TO EARTH - MINIMUM 11/2"

B) NOT EXPOSED TO WEATHER (INTERIOR SIDE OF WALLS) -3/4" C) CONCRETE EXPOSED TO WEATHER (TOP CLEARANCE IN GARAGE AND DRIVEWAY

SLABS) - 1½" 4) 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" OC C) HORIZONTAL BARS SHOULD BE AS CLOSE TO THE TENSION FACE AS POSSIBLE (INTERIOR) AND BEHIND THE VERTICAL REINFORCEMENT (I.E. 2" TOWARD THE

D) SUPPLEMENTAL REINFORCEMENT AT CORNERS - PLACE (1) #4 BAR 48" LONG AT 45 DEGREE ANGLE AT CORNERS OF OPENINGS. PLACE REINFORCEMENT WITHIN 6" OF THE EDGE OF INSIDE CORNERS.

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

6) AT MASONRY LEDGES THE MINIMUM WALL THICKNESS SHALL BE 3\%". LEDGES SHALL NOT EXCEED A DEPTH OF MORE THAN 24" BELOW THE TOP OF THE WALL. FOR WALL THICKNESSES LESS THAN 4" PROVIDE #4 BARS AT MAX. 24" OC TO WITHIN 8" OF THE TOP

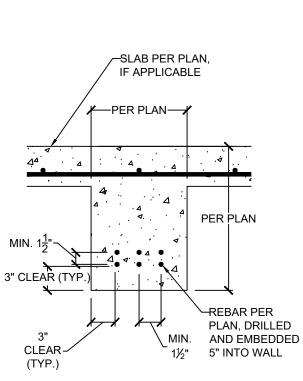
7) STRAIGHT WALLS MORE THAN 5' TALL AND MORE THAN 16 FEET LONG SHALL BE PROVIDED WITH EXTERIOR BRACED RETURN WALLS. WALL LENGTH SHALL BE MEASURED USING INSIDE THE SHORTEST DIMENSION BETWEEN INTERSECTING WALLS 8) WALL SHALL NOT BE BACKFILLED UNTIL FLOOR SYSTEM AND DIAPHRAGM ARE IN PLACE

\FOUNDATION WALL REINFORCEMENT TABLE

2'-0"

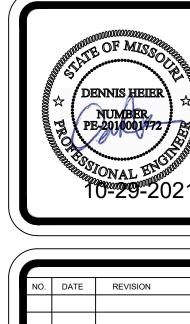


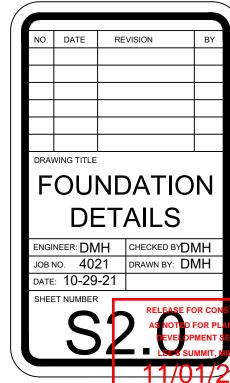
WALKER CUSTOM HOMES, WWS046 SPEC LOT 46, WHISPERING 1612 SW 27TH \$ LEE'S SUMMIT, TITLE: JOB

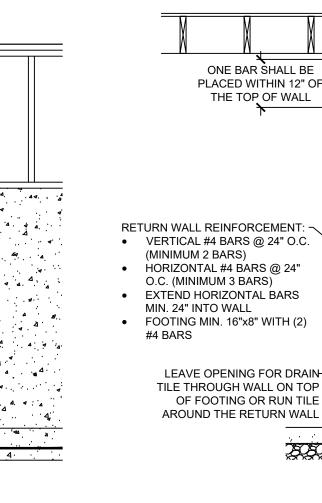


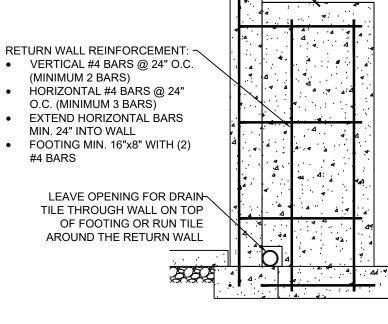
**\CONCRETE GRADE BEAM** 

S2.0 SCALE: 1" = 1'-0" (18x24) OR  $1\frac{1}{2}$ " = 1'-0" (24x36)









TO FDN WALL, SOLID BLOCK OUTSIDE 3 JOIST SPACES @ 36" OC ALIGNING BLOCKING

WITH THE ANCHOR BOLT

\RETURN WALL DETAIL S2.0/SCALE:  $\frac{1}{2}$ " = 1'-0" (18x24) OR  $\frac{3}{4}$ " = 1'-0" (24x36)



SOLID JUMP

MAX. 12" BLOCKOUT FOR

FORM PLACEMENT AND

TO EXTEND DRAIN TILE

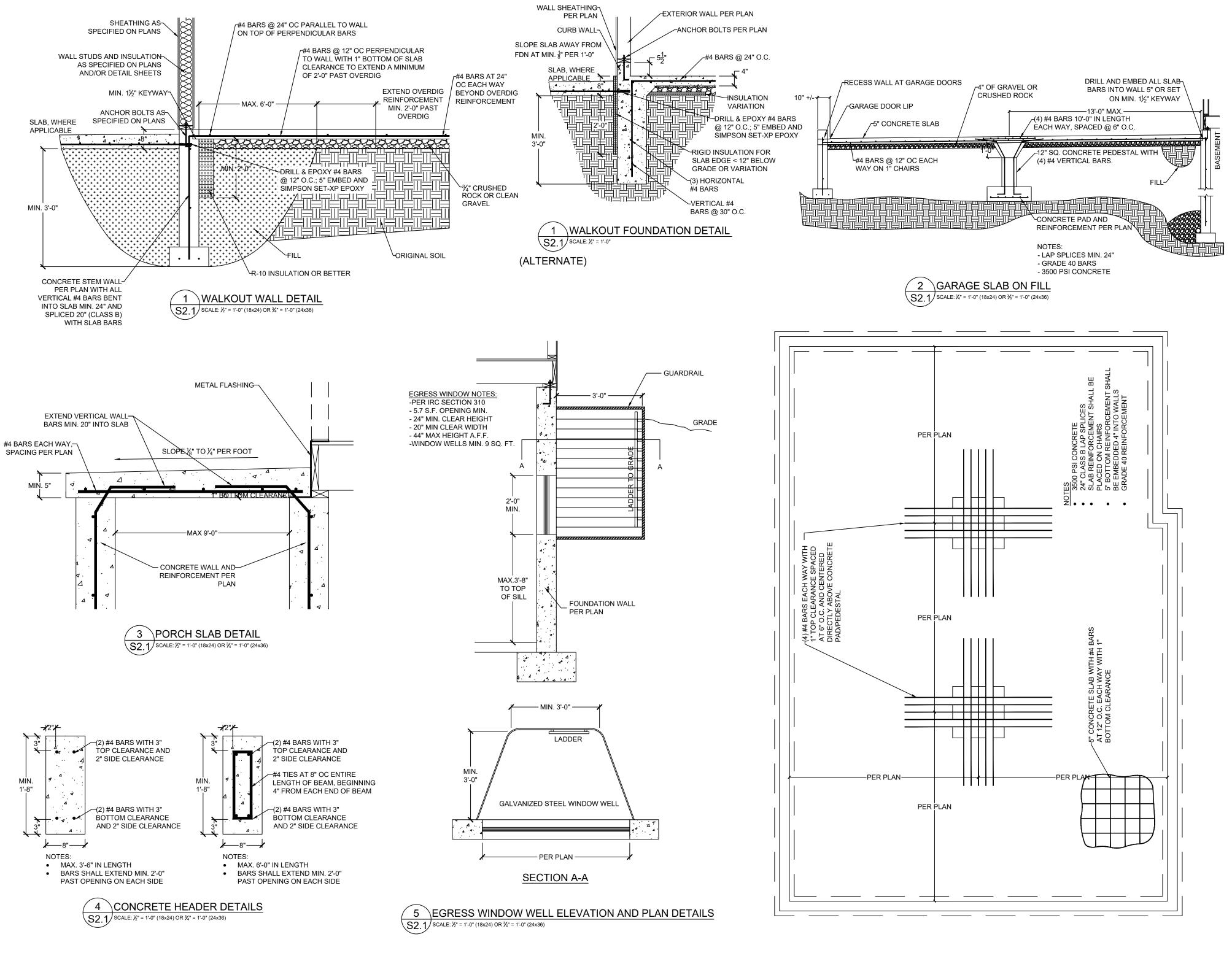
-CONTINUOUS FOOTING AND REBAR THROUGH

6'-0" MAX.

MIN. (2) #4 BARS EXTENDING 24"

PAST OVER-EXCAVATION AND INTO INTERSECTING WALL







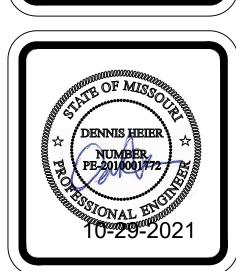
CLIENT: WALKER CUSTOM HOMES, LLC

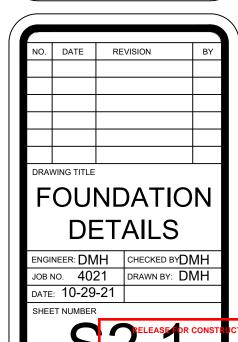
JOB TITLE: WWS046 SPEC

LOT 46, WHISPERING WOODS - 2ND PLAT

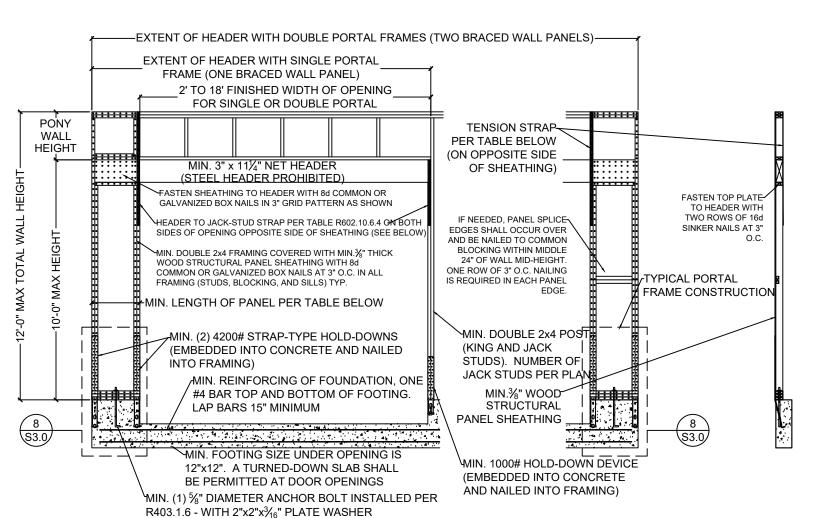
LOCATION: 1612 SW 27TH ST.

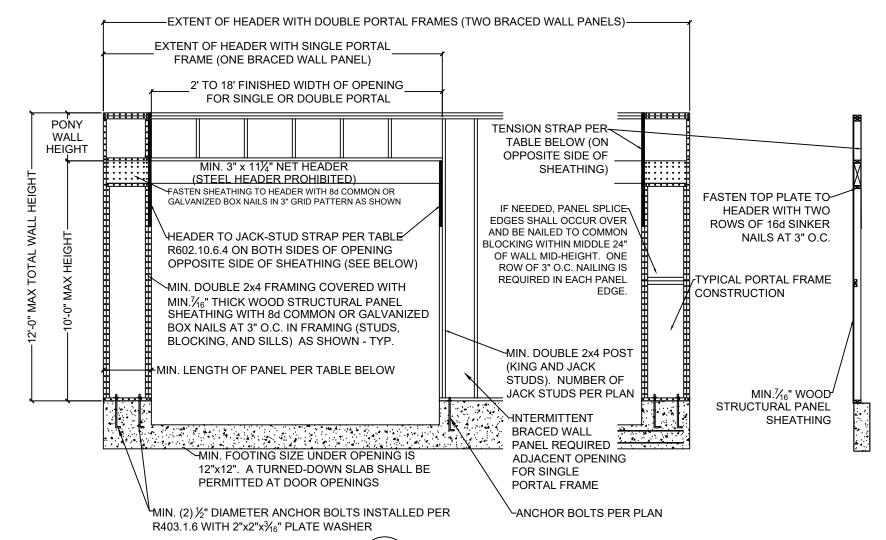
LEE'S SUMMIT, MISSOURI





<del>11/01/2</del>021





METHOD PFH (PORTAL FRAME WITH

\S3.0/HOLD-DOWNS) - PER FIGURE IRC R602.10.6.2

SCALE: ½" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

|                               | MINIMUN     |        | ENGTH F    |            | AIL 1/S3.0 |
|-------------------------------|-------------|--------|------------|------------|------------|
|                               | WALL HEIGHT |        |            |            |            |
|                               | 8 FEET      | 9 FEET | 10<br>FEET | 11<br>FEET | 12<br>FEET |
| SUPPORTING ROOF ONLY          | 16          | 16     | 16         | 18         | 20         |
| SUPPORTING ONE STORY AND ROOF | 24          | 24     | 24         | 27         | 29         |

|                    | REQUIRED FOR HEADER TO |                  | 3 1/S3.0 AND 2/S3.0 (FROM |                        |
|--------------------|------------------------|------------------|---------------------------|------------------------|
| MAX GARAGE OPENING | PONY WALL WALL HT.     | REQUIRED SIMPSON | MIN. STRAP END LENGTH     | NAILS REQUIRED IN EACH |
| (FT.)              | (FT.)                  | STRAP            | MIN. STRAP END LENGTH     | STRAP END LENGTH       |
| 18'-0"             | 0'-0"                  | CS20             | 0'-9"                     | (7) 8d                 |
| 9'-0"              | 1'-0"                  | CS20             | 0'-9"                     | (7) 8d                 |
| 18'-0"             | 1'-0"                  | CS14             | 1'-4"                     | (15) 8d                |
| 9'-0"              | 2'-0"                  | CS18             | 0'-11"                    | (9) 8d                 |
| 18'-0"             | 2'-0"                  | CMSTC16          | 1'-8"                     | (25) 16d SINKER        |
| 9'-0"              | 4'-0"                  | CMSTC16          | 1'-8"                     | (25) 16d SINKER        |
| ·                  | ·                      | ·                |                           | ·                      |

CMST14

4'-0"

2 \METHOD PFG (PORTAL FRAME AT GARAGE \S3.0/DOOR) - PER FIGURE IRC R602.10.6.3

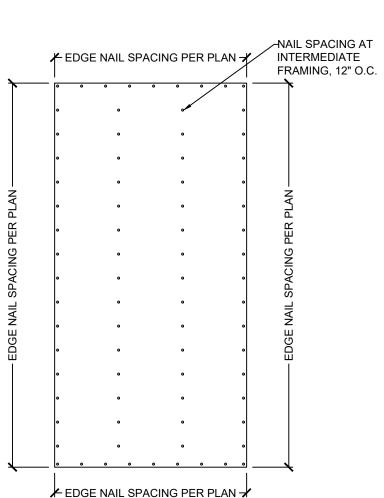
SCALE: 1/4" = 1'-0" (18x24) OR 3/8" = 1'-0" (24x36)

RAFTERS OR-

PRF-MANUFACTURED ROOF TRUSSES PER PLAN

| [MINIMUM PANEL LENGTH FOR DETAIL 2/S3.0 (INCHES)] |        |         |                 |                 |  |  |
|---|--------|---------|-----------------|-----------------|--|--|
| WALL HEIGHT                                       |        |         |                 |                 |  |  |
| 8 FEET  | 9 FEET | 10 FEET | 11 FEET         | 12 FEET         |  |  |
| 24  | 27     | 30      | 33 <sup>a</sup> | 36 <sup>a</sup> |  |  |

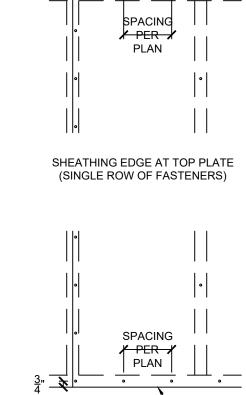
a. Maximum opening height for PFG is 10 feet in accordance with Figure R602.10.6.3, but wall height may be increased to 12 feet with pony wall

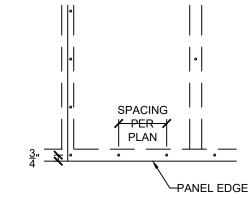


\EXTERIOR WALL SHEATHING

SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)

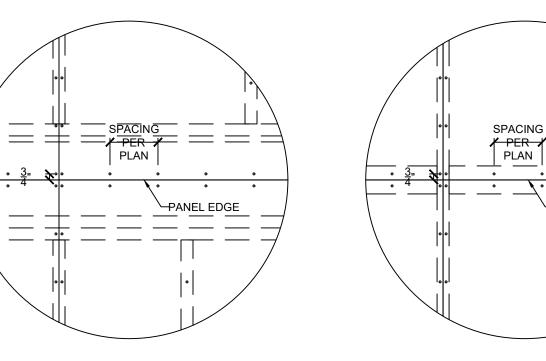
\S3.0/PANEL ATTACHMENT





SHEATHING EDGE AT BOTTOM PLATE (SINGLE ROW OF FASTENERS)







16'-0"

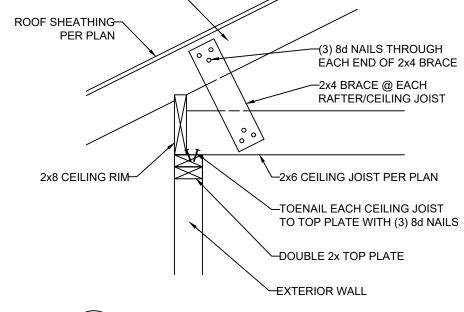




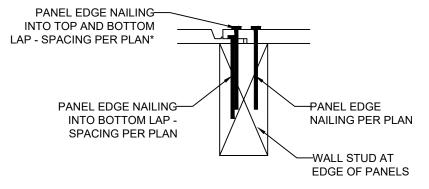
2'-6"

(33) 10d

YPANEL EDGE

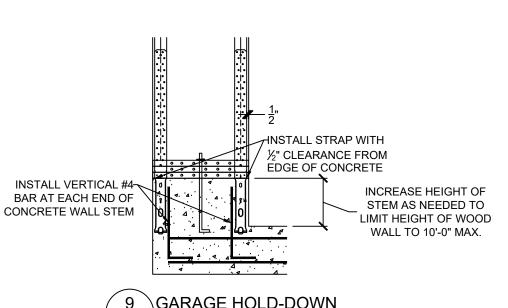


7 RAFTER BEARING OPTION DETAIL S3.0 SCALE: 1" = 1'-0" (18x24) OR  $1\frac{1}{2}$ " = 1'-0" (24x36)

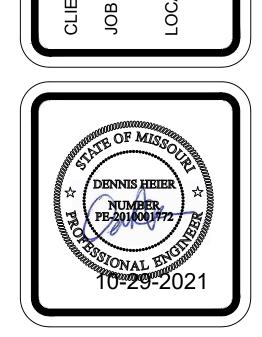


\*NOTE: NAILING INTO TOP AND BOTTOM LAP IS IN ADDITION TO NAILING REQUIRED INTO BOTTOM LAP. FOR EXAMPLE, IF PLAN CALLS FOR NAILS @ 6" O.C. AT EDGES, BOTTOM LAP SHALL BE FASTENED AT 6" O.C AND, IN ADDITION, NAILING SHALL ALSO BE INSTALLED THROUGH TOP AND BOTTOM LAP @ 6" O.C. STAGGERED 3" FROM BOTTOM LAP NAILING





\GARAGE HOLD-DOWN S3.0/STRAP INSTALLATION SCALE:  $\frac{1}{2}$ " = 1'-0" (18x24) OR  $\frac{3}{4}$ " = 1'-0" (24x36)



굽

2ND

WOODS

ST. , MISS(

2 SW 27TH 8:'S SUMMIT,

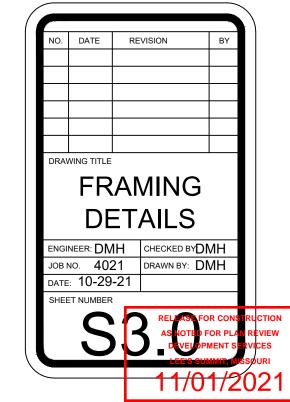
1612 LEE'S

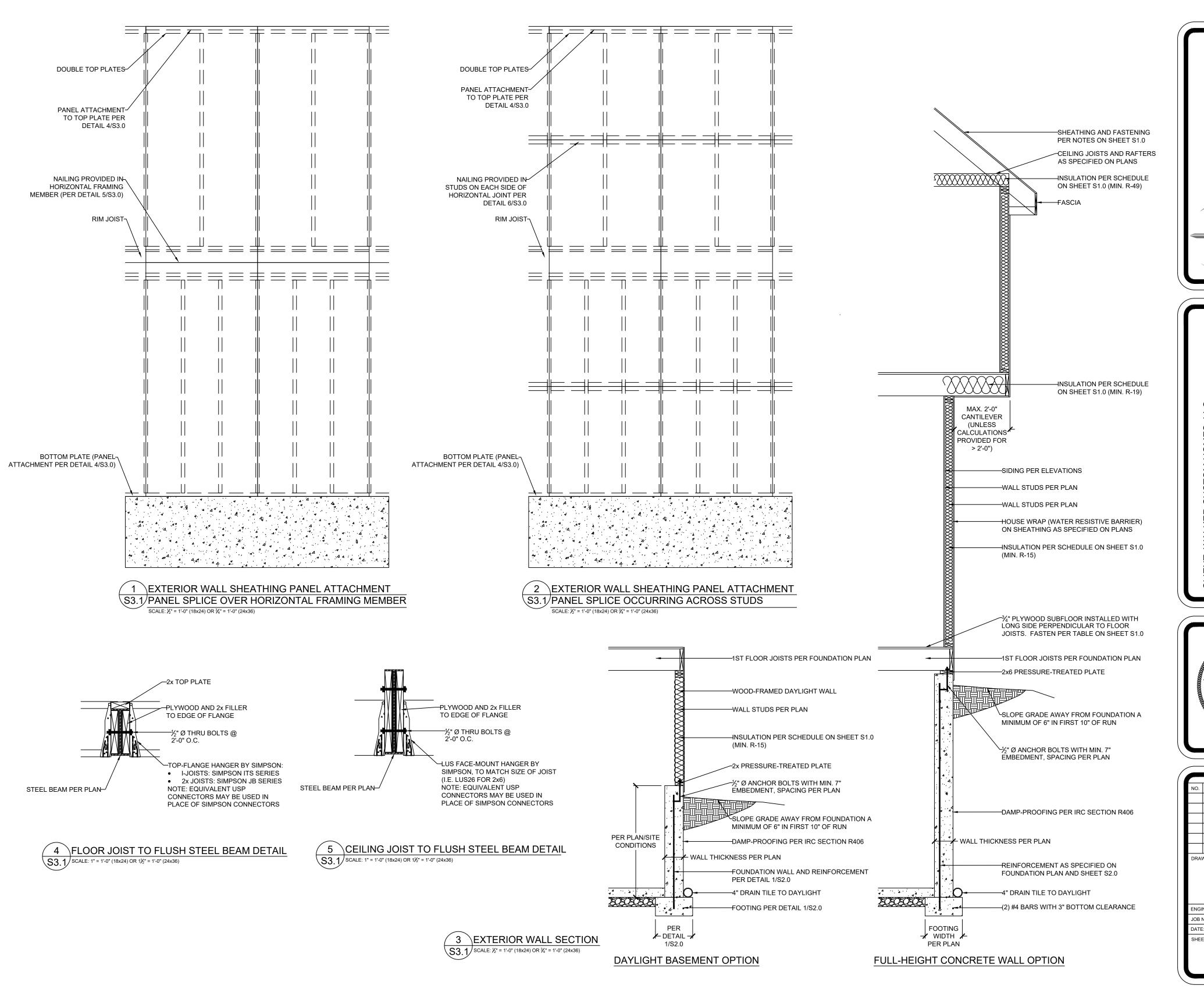
WWS046 SPEC LOT 46, WHISPERING

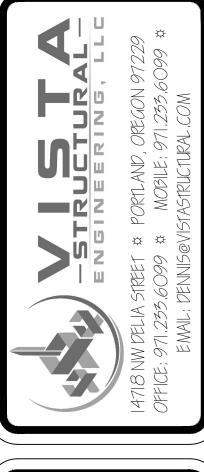
**CUSTOM HOMES,** 

WALKER

\$ \$







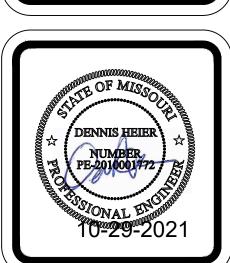
CLIENT: WALKER CUSTOM HOMES, LLC

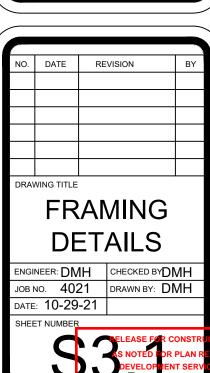
JOB TITLE: WWS046 SPEC

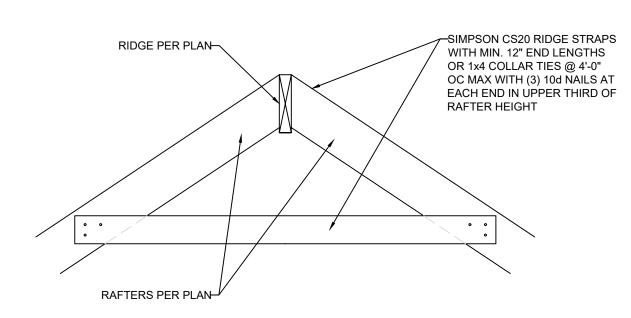
LOT 46, WHISPERING WOODS - 2ND P

LOCATION: 1612 SW 27TH ST.

LEE'S SUMMIT, MISSOURI







RIDGE FRAMING DETAIL

- MAX RISE 73/4"

MIN. RUN 10"

STAIRS WITH THREE OR MORE RISERS

4 \STAIR AND HANDRAIL/GUARDRAIL DETAIL

USE AT ALL FLOOR OPENINGS GREATER THAN 30"

ABOVE GRADE OR THE FLOOR BELOW AND/OR

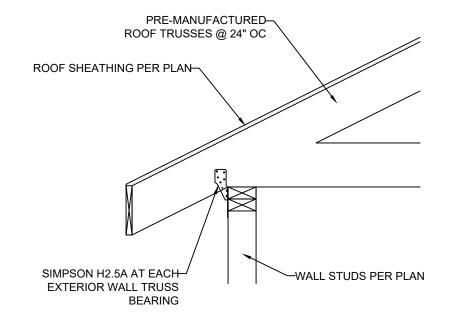
 $\sqrt{3.2}$  SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

6'-8"

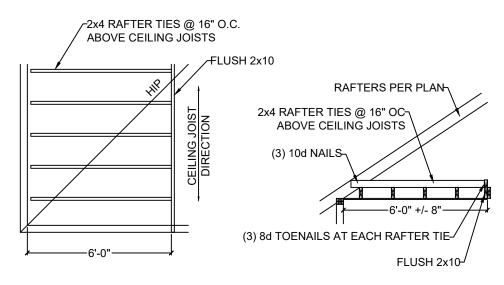
S3.2/SCALE:  $\frac{1}{2}$ " = 1'-0" (18x24) OR  $\frac{3}{4}$ " = 1'-0" (24x36)

MIN. 34", MAX. 38"

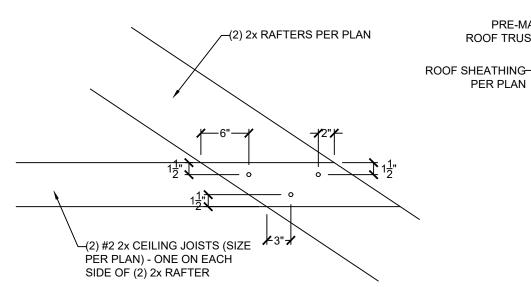
FROM NOSE OF TREAD



## TRUSS CONNECTION TO EXT. WALL BEARING S3.2/SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

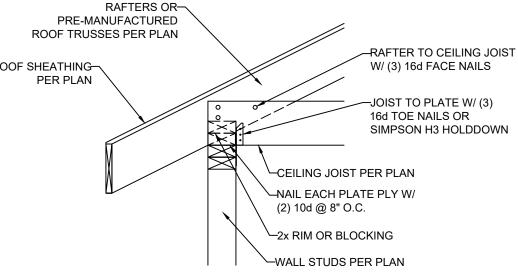


5 \RAFTER TIES AT CEILING JOISTS PERP. TO RAFTERS \$3.2/SCALE:  $\frac{1}{4}$ " = 1'-0" (18x24) OR  $\frac{3}{8}$ " = 1'-0" (24x36)

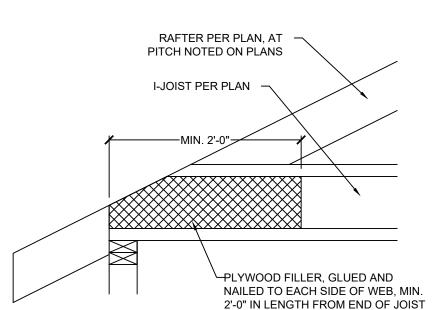


6 \FIELD-CONSTRUCTED A-FRAME DETAIL

\$3.2\rightarrow\text{SCALE: 1" = 1'-0" (18x24) OR 1\frac{1}{2}" = 1'-0" (24x36)}

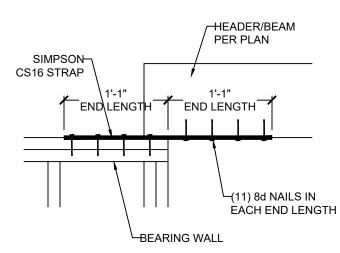


**RAFTER BEARING OPTION DETAIL** \$3.2\rightarrow\scale: 1" = 1'-0" (18x24) OR 1\frac{1}{2}" = 1'-0" (24x36)

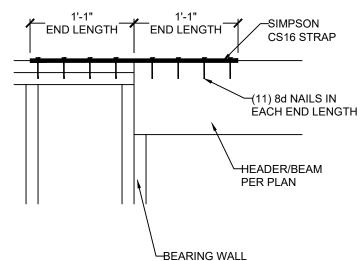


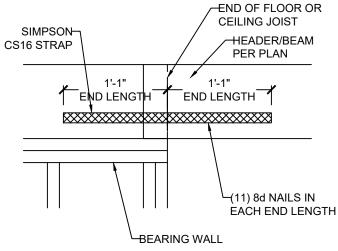
COPED I-JOIST REINFORCEMENT

\$3.2\scale: 1" = 1'-0" (18x24) OR 1\(\frac{1}{2}\)" = 1'-0" (24x36)



31/8" MAX FREE SPACE





|  |   |     | ] '      | 1                           |
|--|---|-----|----------|-----------------------------|
|  | \ | EAF | RING WAL | (11) 8d NAILS<br>EACH END L |

10 \HEADER/BEAM CONNECTION OPTIONS AT OUTDOOR/OPEN SPACE \$3.2 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

| LIEICUT (ET )                    | SPACING (INCHES O.C.) |                        |           |     |  |  |  |
|----------------------------------|-----------------------|------------------------|-----------|-----|--|--|--|
| HEIGHT (FT.)                     | 24                    | 16                     | 12        | 8   |  |  |  |
|                                  | SUPPORT               | SUPPORTING A ROOF ONLY |           |     |  |  |  |
| 10 OR LESS                       | 2x4                   | 2x4                    | 2x4       | 2x4 |  |  |  |
| 12                               | 2x6                   | 2x4                    | 2x4       | 2x4 |  |  |  |
| 14                               | 2x6                   | 2x6                    | 2x6       | 2x4 |  |  |  |
| 16                               | 2x6                   | 2x6                    | 2x6       | 2x4 |  |  |  |
| 18                               | DR                    | 2x6                    | 2x6       | 2x6 |  |  |  |
| 20                               | DR                    | DR                     | 2x6       | 2x6 |  |  |  |
| SUP                              | PORTING O             | NE FLOOR               | AND A ROO | F   |  |  |  |
| 10 OR LESS                       | 2x6                   | 2x4                    | 2x4       | 2x4 |  |  |  |
| 12                               | 2x6                   | 2x6                    | 2x6       | 2x4 |  |  |  |
| 14                               | 2x6                   | 2x6                    | 2x6       | 2x6 |  |  |  |
| 16                               | DR                    | 2x6                    | 2x6       | 2x6 |  |  |  |
| 18                               | DR                    | 2x6                    | 2x6       | 2x6 |  |  |  |
| 20                               | DR                    | DR                     | 2x6       | 2x6 |  |  |  |
| SUPPORTING TWO FLOORS AND A ROOF |                       |                        |           | )F  |  |  |  |
| 10 OR LESS                       | 2x6                   | 2x6                    | 2x4       | 2x4 |  |  |  |
| 12                               | 2x6                   | 2x6                    | 2x6       | 2x6 |  |  |  |
| 14                               | 2x6                   | 2x6                    | 2x6       | 2x6 |  |  |  |
| 16                               | DR                    | 2x6                    | 2x6       | 2x6 |  |  |  |
| 18                               | DR                    | DR                     | 2x6       | 2x6 |  |  |  |

| NOTES:  |
|---|
| 1) DR = DESIGN REQUIRED                           |
| 2) UTILITY, STANDARD, STUD AND #3 GRADE LUMBER OF |
| ANY SPECIES ARE NOT PERMITTED                     |
| 3) THIS TABLE DOES NOT APPLY FOR STUDS            |
| SUPPORTING MEMBERS WITH A TRIB. LENGTH GREATER    |
| THAN 6'-0"  |
|   |

DR

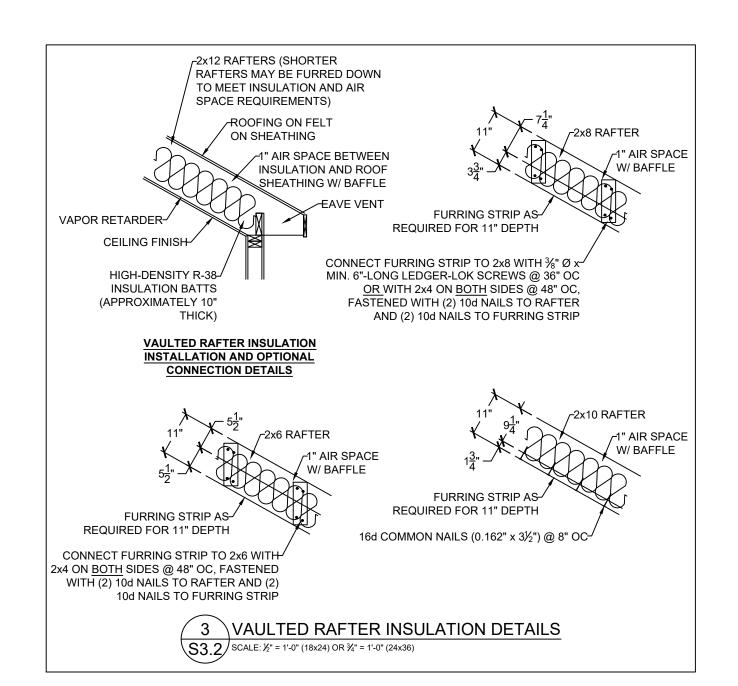
DR

2x6

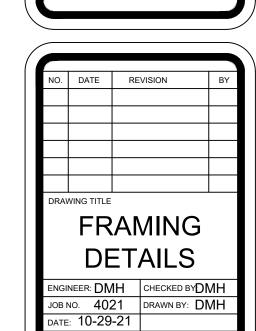
DR

20

8 MAXIMUM ALLOWABLE LENGTH OF S3.2/WOOD WALL STUDS (IRC TABLE 602.3.1)



|        | SPACING (I | NCHES O.C | 5.) |
|--------|------------|-----------|-----|
| 24     | 16         | 12        | 8   |
| PPORT  | ING A ROOF | ONLY      |     |
| 2x4    | 2x4        | 2x4       | 2x4 |
| 2x6    | 2x4        | 2x4       | 2x4 |
| 2x6    | 2x6        | 2x6       | 2x4 |
| 2x6    | 2x6        | 2x6       | 2x4 |
| OR     | 2x6        | 2x6       | 2x6 |
| OR     | DR         | 2x6       | 2x6 |
| TING O | NE FLOOR   | AND A ROO | F   |
| 2x6    | 2x4        | 2x4       | 2x4 |
| 2x6    | 2x6        | 2x6       | 2x4 |
| 2x6    | 2x6        | 2x6       | 2x6 |
| OR     | 2x6        | 2x6       | 2x6 |
| DR     | 2x6        | 2x6       | 2x6 |
| DR     | DR         | 2x6       | 2x6 |
| ING TV | VO FLOORS  | AND A ROC | )F  |
| 2x6    | 2x6        | 2x4       | 2x4 |
| 2x6    | 2x6        | 2x6       | 2x6 |
| 2x6    | 2x6        | 2x6       | 2x6 |
| DR     | 2x6        | 2x6       | 2x6 |



SHEET NUMBER

DENNIS HEIER

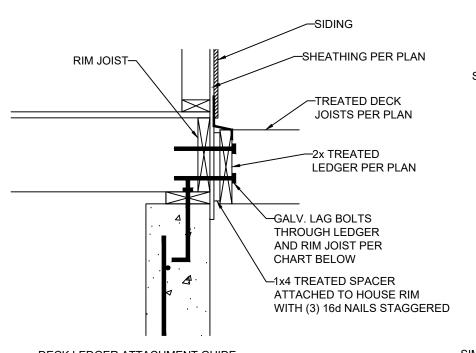
PE-2010001772

2ND

WWS046 SPEC LOT 46, WHISPERING WOODS 1612 SW 27TH ST. LEE'S SUMMIT, MISSOURI JOB

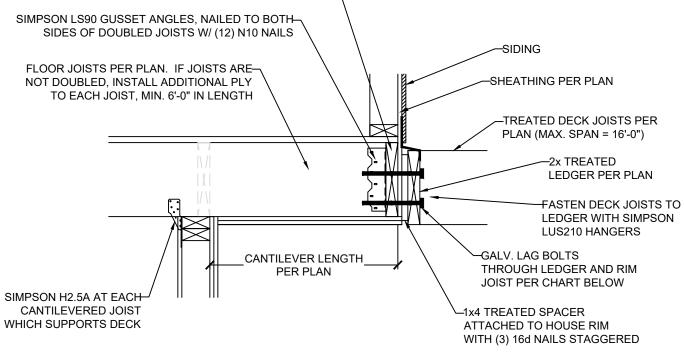
WALKER CUSTOM HOMES,

CLIENT:



#### DECK LEDGER ATTACHMENT GUIDE

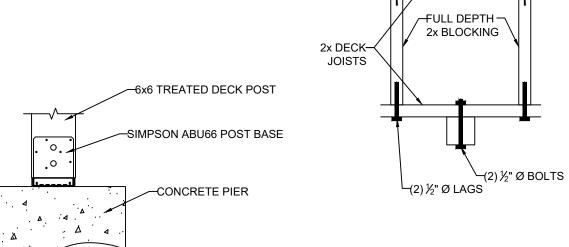
| DECK JOIST<br>SPAN | ½" Ø GALV. LAG OR ¾" Ø LEDGER-LOK SPACING |
|--------------------|---|
| 10'-0" OR LESS     | 16" OC                                    |
| 10'-0" - 13'-11"   | 12" OC OR @ 16" OC DOUBLED EVERY OTHER    |
| 14'-0" - 18'-0"    | 8" OC OR @ 16" OC DOUBLED                 |
|                    |   |



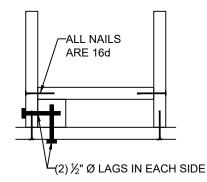
CANTILEVER WITH DECK ATTACHMENT

S3.3/SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

RIM JOIST-

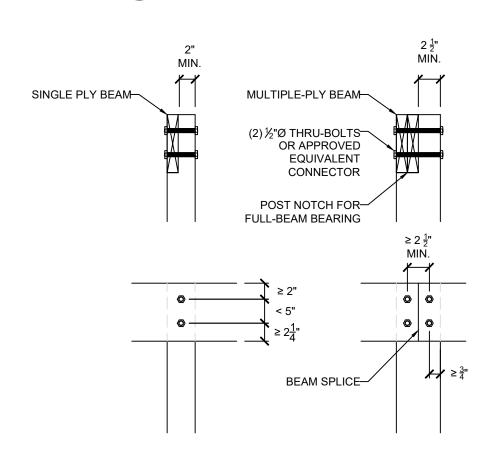




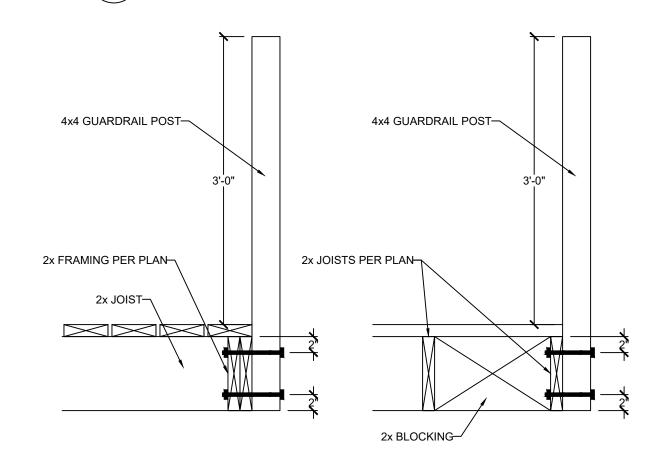


REINF. POST CONNECTIONS \$3.3 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

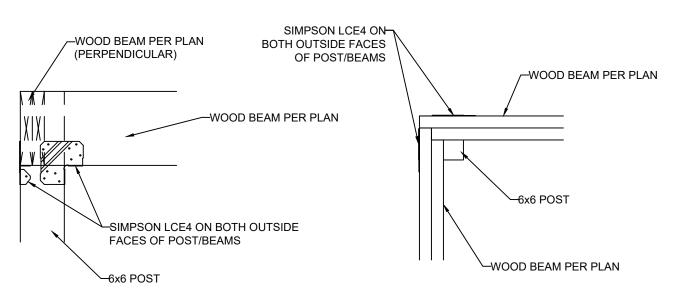
## LEDGER ATTACHMENT \$3.3\rightarrow\$SCALE: 1" = 1'-0" (18x24) OR 1\frac{1}{2}" = 1'-0" (24x36)



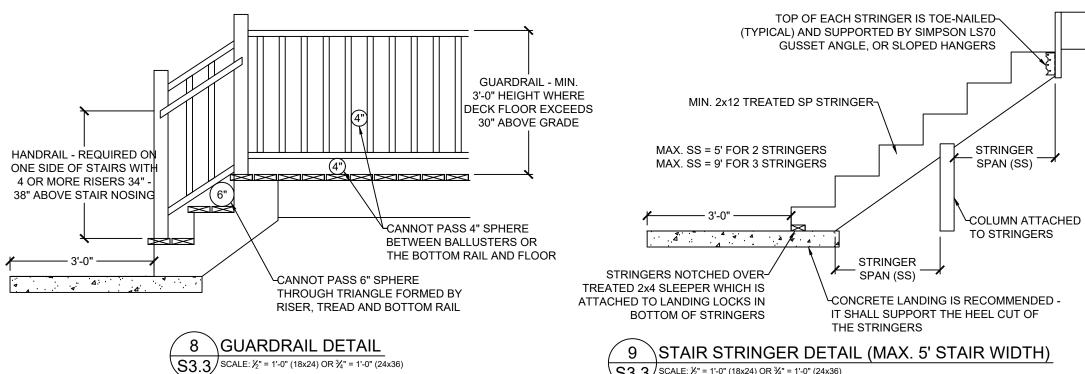








ALTERNATE COVERED DECK/PORCH INTERSECTION S3.3/CORNER BEAM CONNECTION SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



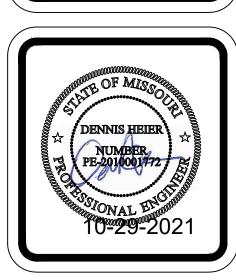


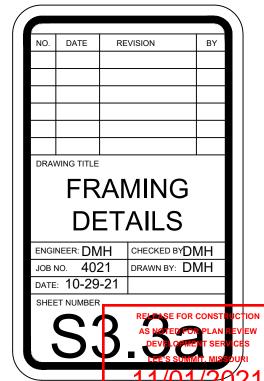
WWS046 SPEC LOT 46, WHISPERING WOODS WALKER CUSTOM HOMES, JOB

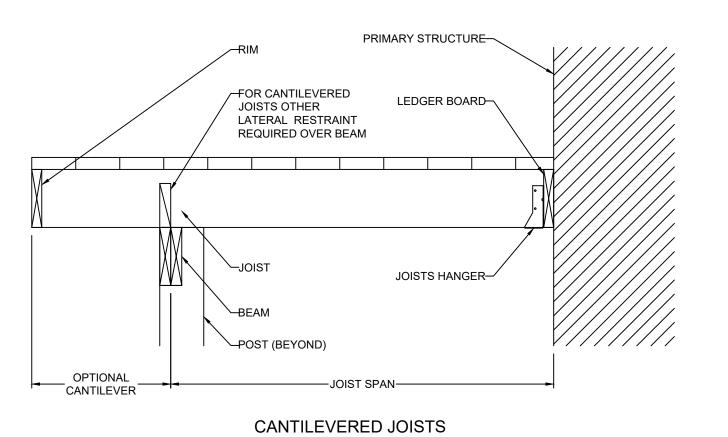
ST. , MISSOURI

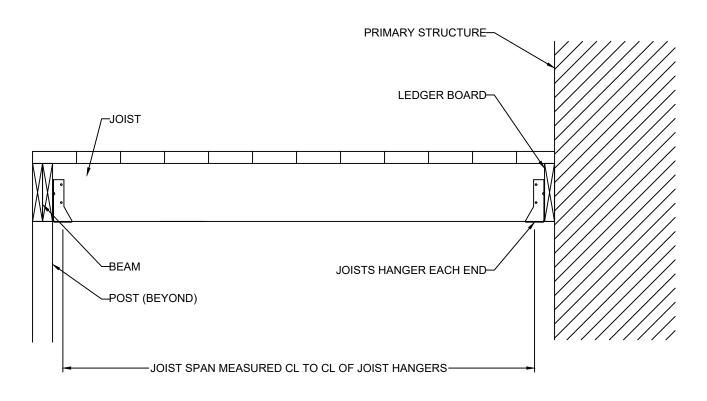
1612 SW 27TH S LEE'S SUMMIT, I

LOCATION

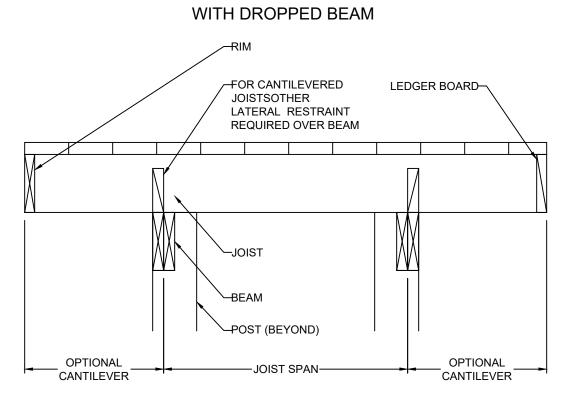


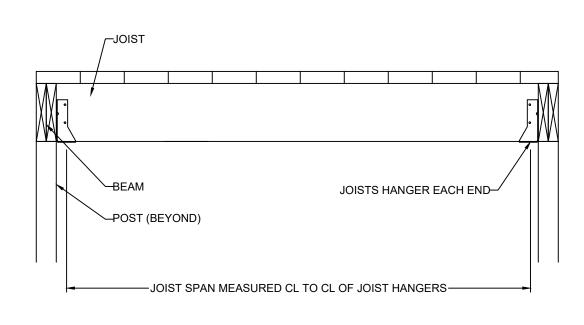






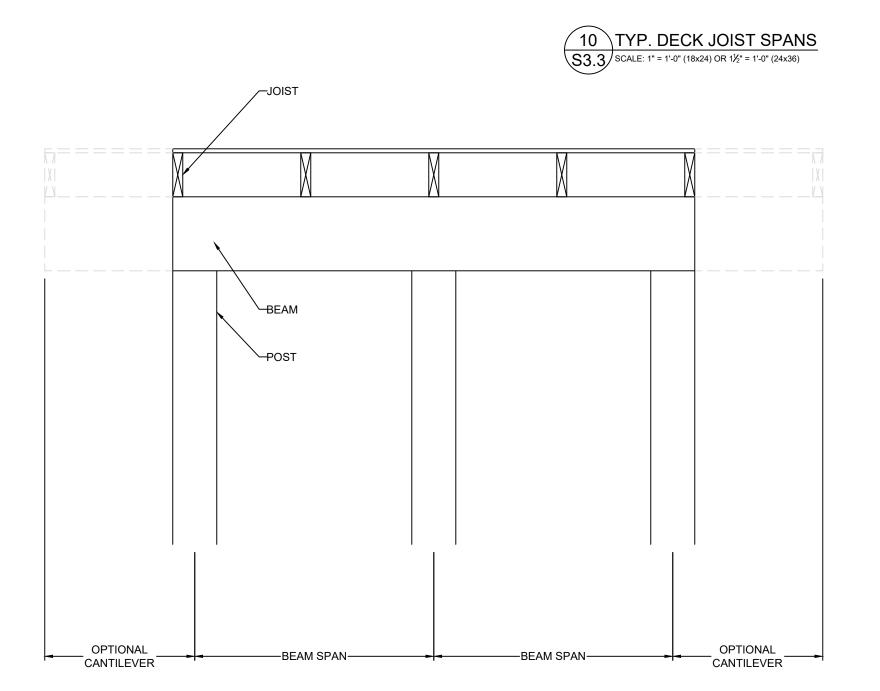
JOISTS WITH FLUSH BEAM

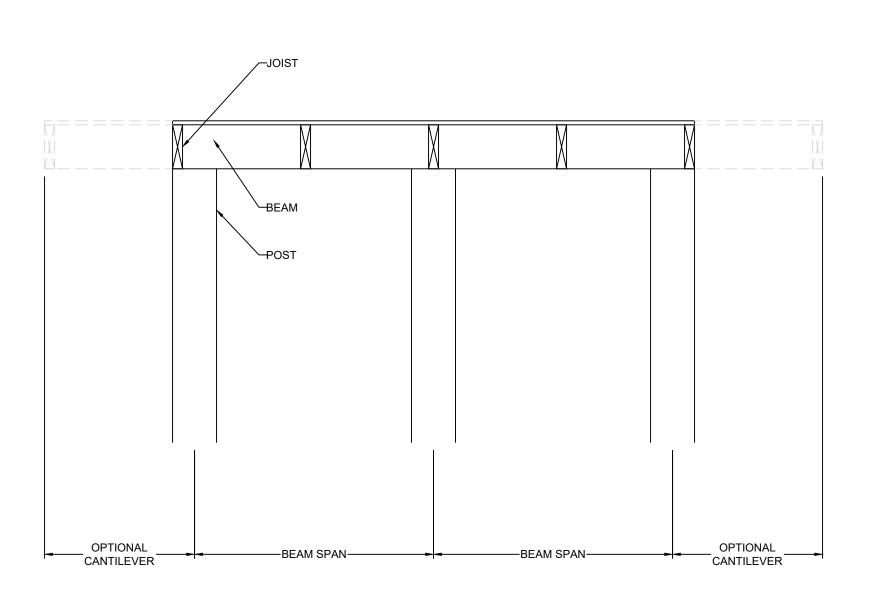




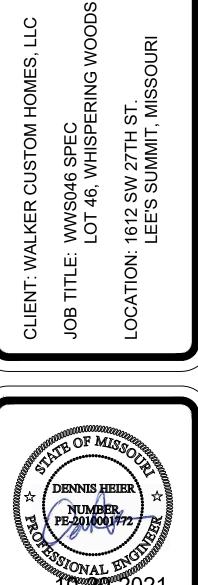
JOISTS WITH FLUSH BEAM





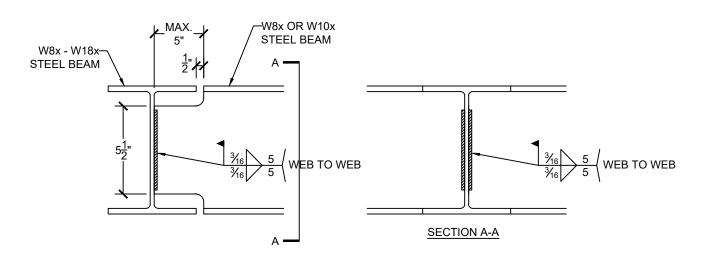






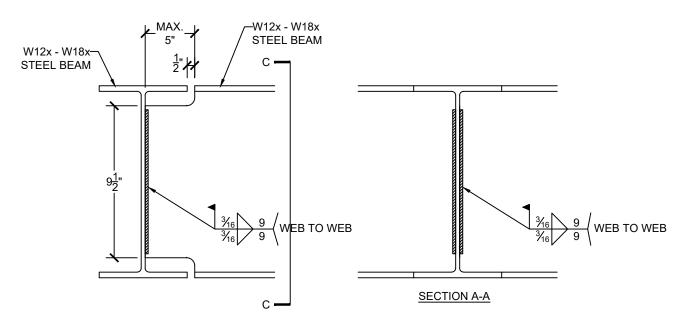
| NO.   | DATE       | RE       | VISION     | BY                        |  |  |
|-------|------------|----------|------------|---------------------------|--|--|
|       |            |          |            |                           |  |  |
|       |            |          |            |                           |  |  |
|       |            |          |            |                           |  |  |
|       |            |          |            |                           |  |  |
|       |            |          |            |                           |  |  |
|       |            |          |            |                           |  |  |
| DRAV  | VING TITLE |          |            | •                         |  |  |
|       | FRAMING    |          |            |                           |  |  |
|       | DE         | ΞΤ       | AILS       |                           |  |  |
| ENGI  | NEER: DN   | 1H       | CHECKED BY | HMC                       |  |  |
| JOB N | vo. 402    | 21       | DRAWN BY:  | HMC                       |  |  |
| DATE  | : 10-29    | -21      |            |                           |  |  |
| SHEE  | T NUMBER   |          |            |                           |  |  |
|       |            | <b>h</b> | RELEASE EC | R CONSTRU                 |  |  |
| •     |            | K        | AS NOTED ( | OR PLAN RE                |  |  |
| 1     | U,         |          | _ \        | MENT SERVI<br>MMIT. MISSO |  |  |

DROPPED BEAM FLUSH BEAM



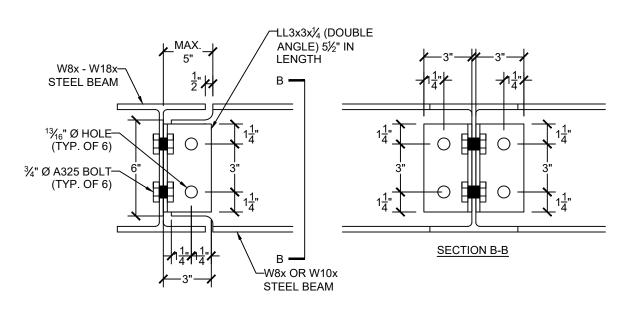
# 1 WELDED T-BEAM CONNECTION FOR W8x AND W10x BEAMS S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #1)

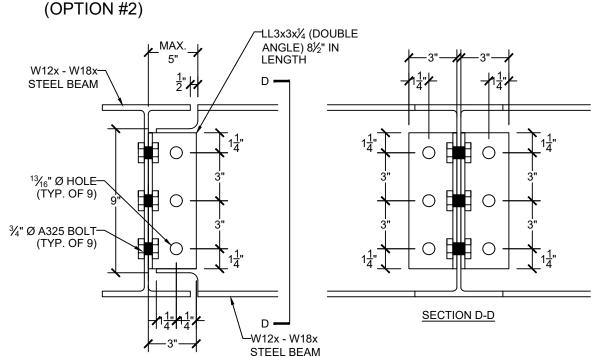


2 WELDED T-BEAM CONNECTION FOR W12x, W14x, W16x & W18x BEAMS S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #1)



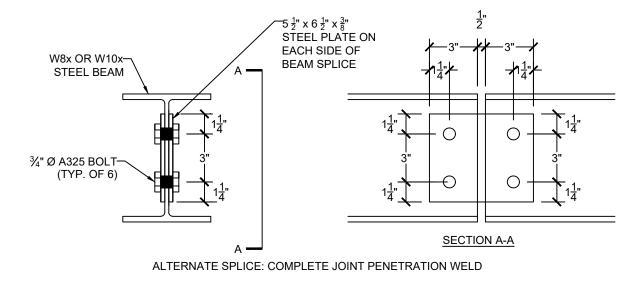
## 1 BOLTED T-BEAM CONNECTION FOR W8x AND W10x BEAMS S3.4 SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)



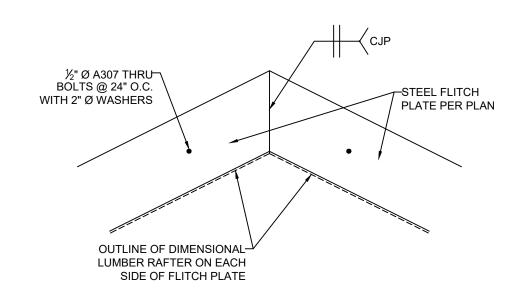
2 BOLTED T-BEAM CONNECTION FOR W12x, W14x, W16x & W18x BEAMS

SCALE: 2" = 1'-0" (18x24) OR 3" = 1'-0" (24x36)

(OPTION #2)

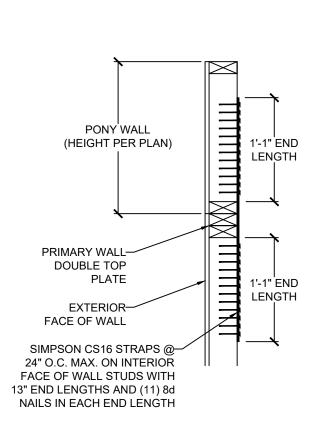


3 BEAM SPLICE CONNECTION FOR W8x AND W10x BEAMS
S3 4 SCALE: 2" = 1"-0" (18x24) OR 3" = 1"-0" (24x36)

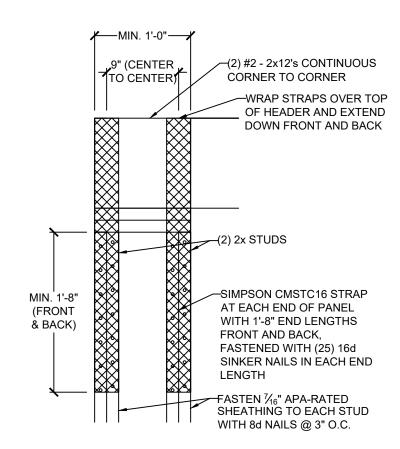


4 RAFTER FLITCH PLATE DETAIL

\$3.4 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)

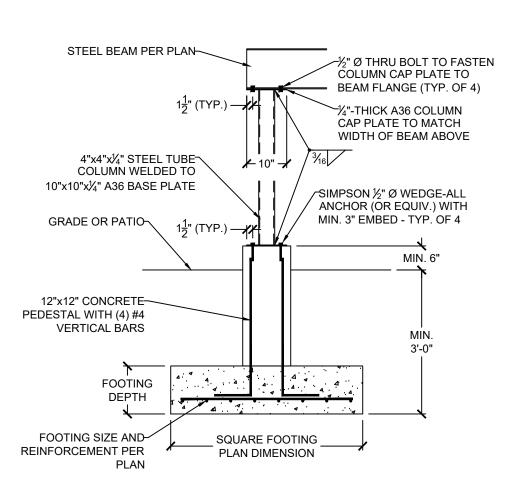


5 SPLICED WALL CONNECTION
S3.4 SCALE: 1" = 1'-0" (18x24) OR 1½" = 1'-0" (24x36)



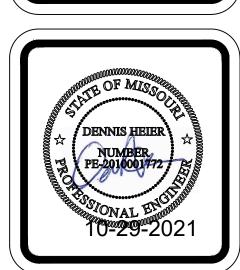
NOTE: SILL PLATE OF PANEL SHALL BE MIN. (1) 2x AND FASTENED WITH  $\frac{1}{2}$ " Ø ANCHOR BOLT AND 2" Ø WASHER PLATE





7 EXTERIOR STEEL COLUMN CONNECTIONS S3.4 SCALE: ½" = 1'-0" (18x24) OR ¾" = 1'-0" (24x36)





2ND

WWS046 SPEC LOT 46, WHISPERING WOODS

TITLE

JOB

ST. , MISSOURI

1612 SW 27TH S LEE'S SUMMIT, I

LOCATION

☼

