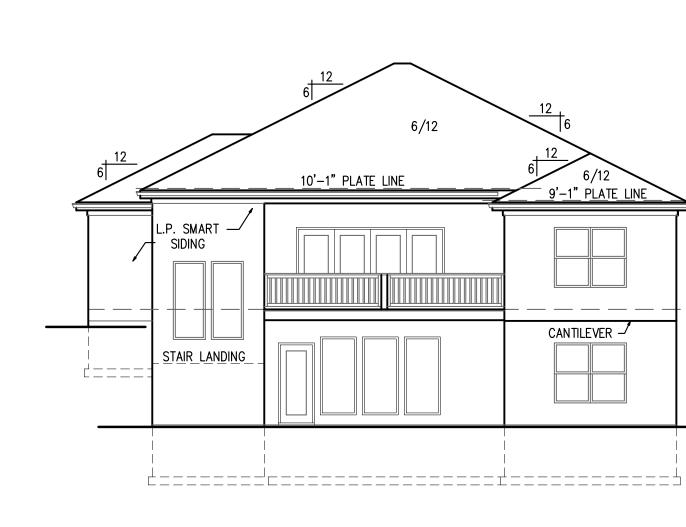


DRAWN BY: CJD CHECKED BY: CA

DATE:12/14/2023

PROJ. 23-383

NOTE:
PLANS DESIGNED PER IRC AS
ADOPTED BY GOVERNING JURISDICTION



9'-1" PLATE LINE

L.P. SMART —/ /— SIDING

LEFT ELEVATION

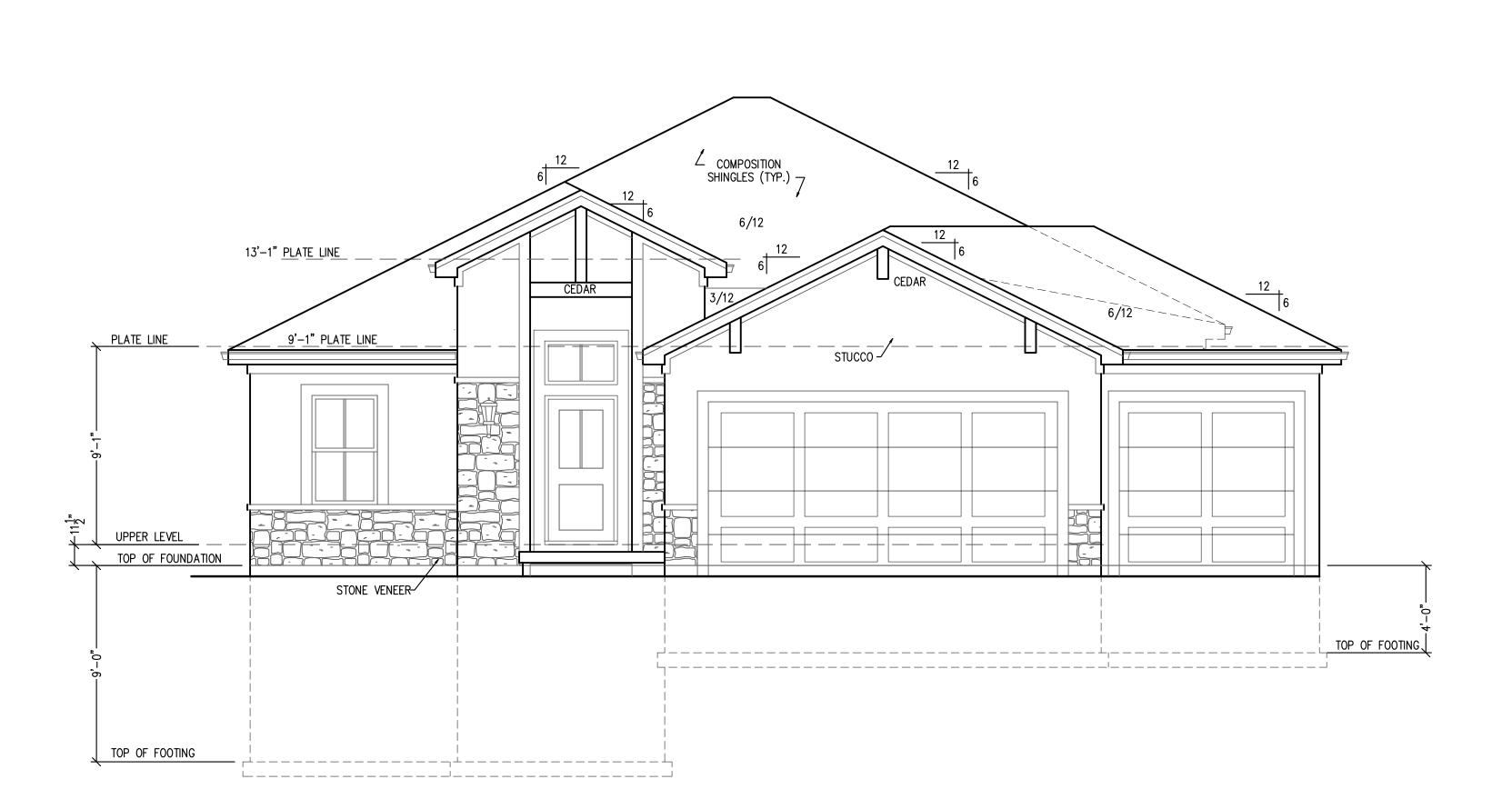
SCALE: 1/8" = 1'-0"

CANTILEVER

L-----/

REAR ELEVATION

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



FRONT ELEVATION

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

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/20/2023

INSTALL ROOF AND SOFFIT VENTS AS REQUIRED BY CODE

6/12

____BASEMENT_SLAB______

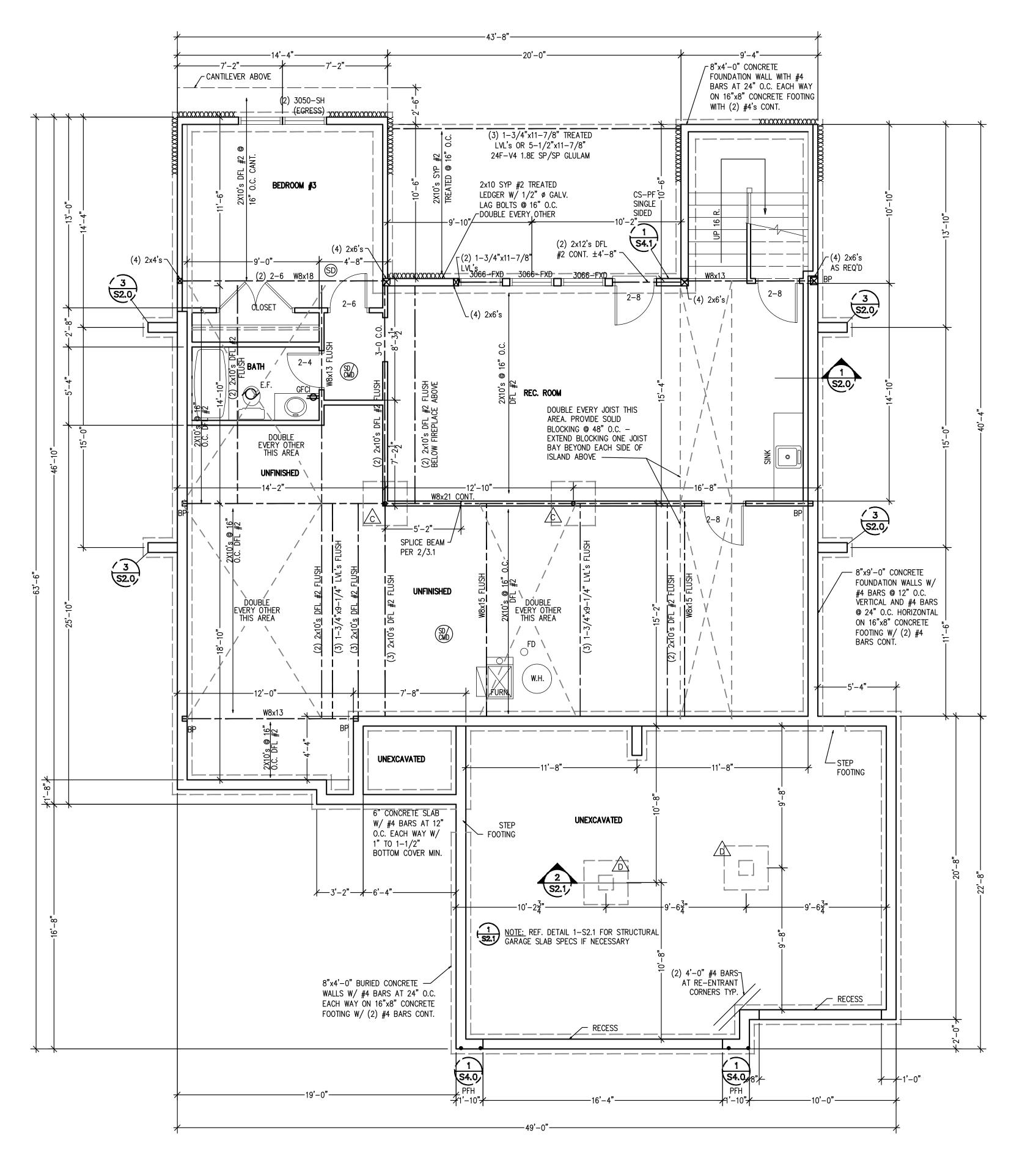
RIGHT ELEVATION

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

<u>_____</u>

LOWER LEVEL – 707 SQ. FT. MAIN FLOOR - 1,659 SQ. FT. 2,366 SQ. FT. Porch Garage Unfinished 210 SQ FT. 652 SQ. FT. 737 SQ. FT.

> <u>DISCLAIMER</u> ACTUAL PLANS AND ELEVATIONS MAY VARY FROM ARCHITECTURAL DRAWINGS. DUE TO TERRAIN/BACKFILL PROCESS. FRONT ELEVATIONS ARE ARCHITECTURAL DRAWINGS AND MAY VARY DUE TO MATERIAL AVAILABILITY. COMPLIES WITH HERS ENERGY RATED



BASEMENT / FOUNDATION PLAN SCALE: 1/4" = 1'-0"

(2)#2-2x10 - ALL HEADERS AND BEAMS MIN #2

GRADE DF/L (OR EQ.) - EEARING WALL - STRUCTURE NOTED AS FLUSH TO BE FLUSH WITH SUB-FLOOR ABOVE.

BRACED WALL METHODOLOGY CONTINUOUS EXTERIOR SHEATHING PER WSP METHOD (BELOW) UNLESS OTHERWISE NOTED ON THE PLAN

XXXX EXTERIOR BRACED WALLS:

WSP METHOD: WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" WITH MINIMUM SPAN RATING OF 24/0 FOR 16" OC STUD SPACING WITH 6d COMMON NAILS AT 6" OC EDGES AND 12" OC FIELD OR SHEATHING THICKNESS NOT LESS THAN 7/6" WITH MINIMUM SPAN RATING OF 24/16 FOR 24" OC SPACING WITH 8d COMMON NAILS AT 6" OC EDGES AND 12" OC IN FIELD. (NOTE: FRAMING MEMBERS 16" OC MAX,UNBLOCKED, AND WITH SHEATHING APPLIED DIRECTLY TO FRAMING

//// INTERIOR BRACED WALLS (REF 2-S4.0):

GB METHOD: ½" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX. FASTENED WITH No 6 - 11/4" TYPE 'W' OR 'S' DRYWALL SCREWS AT 7" OC EDGES AND FIELD (MIN. 4'-0" SECTION FOR BOTH SIDES.)

1x4 WOOD FASTENED WITH (3) 8d COMMON NAILS OR SIMPSON / USP 16 GA. TYPE WB (OR EQUAL) STL. X-BRACE(S) AT 45° TO 60° ANGLES, MAXIMUM 16" O.C. STUD FASTENED PER MANUFACTURER'S SPECIFICATIONS.

| COLUMN & PIER PAD SCHEDULE (REF. 5/S2.0) | | | | |
|--|-----------------|----------------------------------|---------------------|--|
| COLUMN MARK | REINFORCEMENT | COLUMN SIZE | | |
| A | 30" x 30" x 12" | 12" (4) #4 BAR E.W. 3" SCH 40 (3 | | |
| B | 36" x 36" x 12" | (4) #4 BAR E.W. | 3" SCH 40 (3.5" OD) | |
| <u> </u> | 42" x 42" x 12" | (5) #4 BAR E.W. | 3" SCH 40 (3.5" OD) | |
| \triangle | 48" x 48" x 12" | (6) #4 BAR E.W. | 3½" SCH 40 (4" OD) | |
| Ê | 54" x 54" x 16" | (8) #4 BAR E.W. | REF PLAN | |
| Ê | 60" x 60" x 16" | (10) #4 BAR E.W. | REF PLAN | |

1. COLUMN & PAD SIZES SHOWN ARE FOR MAXIMUM ADJUSTABLE COLUMN HEIGHT OF 9'-1", REQUIRES SEPARATE ENGR'D DESIGN IF GREATER THAN 9'-1" TALL. COLUMNS SIZED AS QWIK-ADJUST COLUMN, BY QUALITY WAY PRODUCTS, LLC. REFER TO SAFE LOADING CAPACITIES PER MANUF SPECS, OR SUBSTITUTION TO ANOTHER PRODUCT ONLY WITH PRIOR APPROVAL BY APEX ENGINEERS.

2. COLUMN & PIER PAD SIZES SHOWN ARE BASED ON AN ASSUMED MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2,000PSF.

| COLUMN & PIER SCHEDULE | | | | | |
|-------------------------|--------------------------------|-----|--|--|--|
| MARK | MARK COLUMN SIZE PIER DIA. | | | | |
| A | 6x6 | 12" | | | |
| \triangle | 6x6 | 16" | | | |
| $\overline{\mathbb{Q}}$ | 6x6 | 18" | | | |
| À | 6x6 | 24" | | | |
| | 6x6 | 28" | | | |

1. ALL PIERS TO BEAR ON ORIGINAL. UNDISTURBED SOIL OF 2,000 PSF BEARING CAPACITY OR FILL COMPACTED AND TESTED TO CONFORM TO THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER.

2. PIERS SHALL EXTEND BELOW THE FROST LINE: MIN. DEPTH OF 36" BELOW GRADE

3. POST SHALL BE TREATED OR CEDAR WITH SIMPSON ABU66 POST BASE

DETAIL REFERENCES

 $\binom{1}{\$2.0}$ TYPICAL FOUNDATION WALL DETAIL

2 TYPICAL "UNRESTRAINED" FOUNDATION WALL DETAIL

3 TYPICAL DEAD MAN DETAIL

FOUNDATION WALL JUMP DETAIL

5 S2.0) COLUMN PAD DETAIL

1 TYPICAL STRUCTURAL GARAGE S2.1 SLAB PLAN

COLUMN AND PIER PAD SCHEDULE (SHEET S2.0)

EXPANSIVE SOILS DISCLAIMER: THESE PLANS HAVE BEEN PREPARED BASED ON A PRESUMPTIVE ALLOWABLE BEARING CAPACITY AS ALLOWED BY IRC CODE AND THE LOCAL ENFORCING JURISDICTION.

2 STRUCTURAL GARAGE SLAB PIER PAD DETAIL

3 STRUCTURAL GARAGE SLAB / WALL SECTION

6 TYPICAL OVERDIG DETAIL AT BASEMENT SLAB

1 ALTERNATE BRACED WALL PANEL DETAIL

APA NARROW WALL BRACING METHOD WITHOUT HOLD-DOWNS

APEX ENGINEERS, INC. (APEX) RECOMMENDS THAT ALL FOOTING EXCAVATIONS BE EVALUATED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ANY FOUNDATION ELEMENTS. GEOTECHNICAL INVESTIGATION AND/OR TESTING IS NOT A SERVICE PROVIDED OR OFFERED BY APEX.

APEX HAS NOT BEEN RETAINED TO DETERMINE THE EXPANSIVE SOIL CHARACTERISTICS OF THE SUBGRADE SOIL AND THEREFORE CANNOT BE HELD RESPONSIBLE FOR THE VOLUMETRIC CHANGES OF THE SOIL (INCLUDING BELOW THE BASEMENT SLAB). BY USE OF THESE PLANS WITHOUT AN ACCOMPANYING GEOTECHNICAL ENGINEERING REPORT, APEX SHALL NOT BE HELD LIABLE FOR ANY FUTURE MOVEMENT AND/OR DIFFERENTIAL MOVEMENT OF THE PROPOSED STRUCTURE AND THE POSSIBLE DAMAGE THAT MAY BE CAUSED AS A RESULT OF SUCH MOVEMENT. DAMAGE FROM EXPANSIVE SOILS AND/OR SETTLEMENT CAN RESULT IN AMONGST OTHER THINGS, THE FOLLOWING: BASEMENT SLAB HEAVE, SHEETROCK CRACKS, WINDOWS AND DOOR BECOMING OUT OF PLUMB AND STICKING AND/OR NOT OPENING, DAMAGE TO TILE, MOULDING, AND OTHER COSMETIC FINISHES.

NOTE:
ALL WINDOWS SIZES ARE EXPRESSED
IN FEET AND INCHES TO THE UNIT SIZE.

NOTE: PLANS DESIGNED PER IRC AS ADOPTED BY GOVERNING JURISDICTION



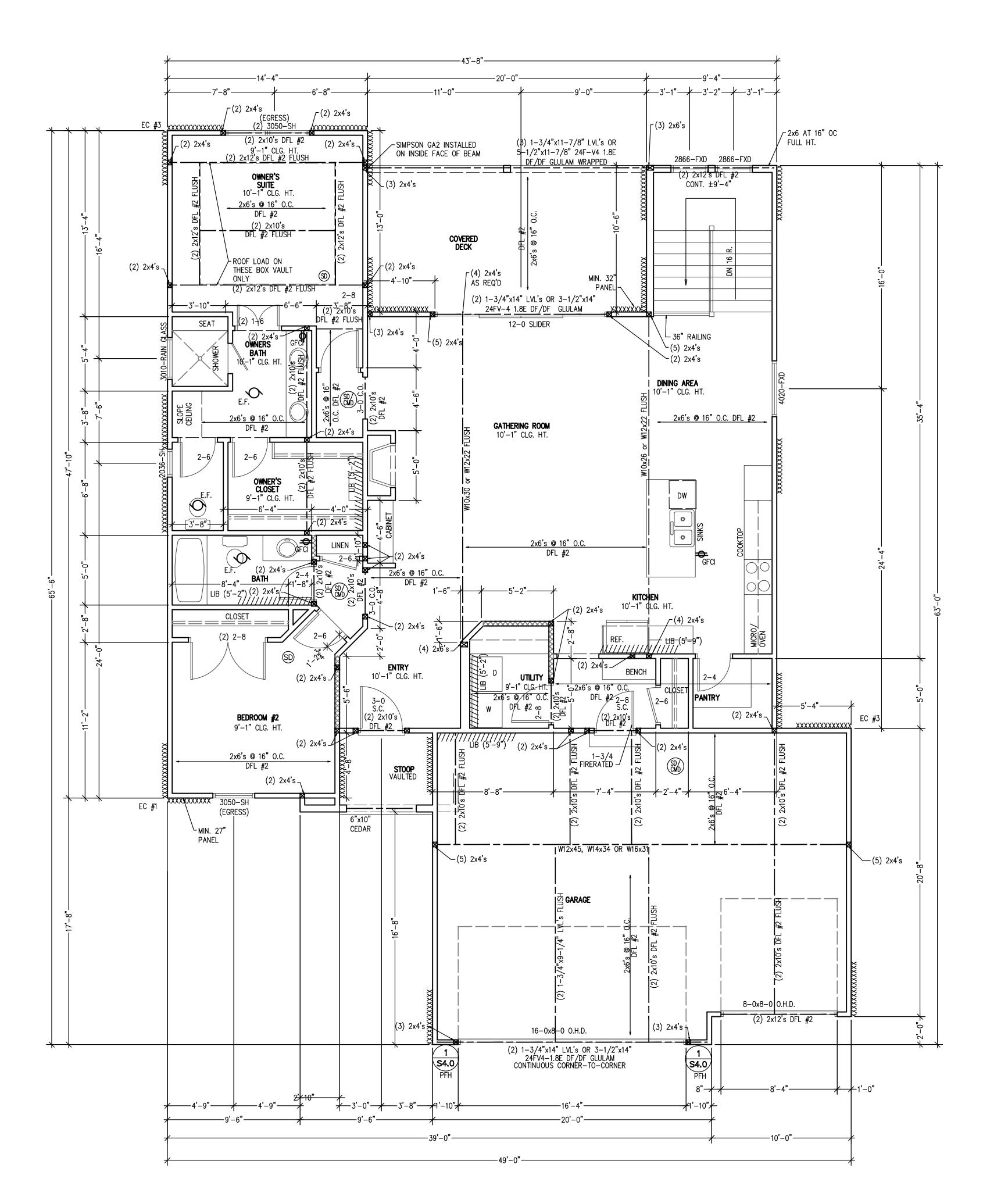


2003004673

CHECKED BY: CA DATE:12/14/2023

DRAWN BY: CJD





MAIN FLOOR PLAN SCALE: 1/4" = 1'-0"

STRUCTURAL NOTES: - ALL UNMARKED HEADERS MIN

(2)#2-2x10

- ALL HEADERS AND BEAMS MIN #2 GRADE DF/L (OR EQ.)

- STRUCTURE NOTED AS FLUSH TO BE

FLUSH WITH SUB-FLOOR ABOVE. BRACED WALL METHODOLOGY

CONTINUOUS EXTERIOR SHEATHING PER WSP METHOD (BELOW) UNLESS OTHERWISE NOTED ON THE PLAN

XXXX EXTERIOR BRACED WALLS:

WSP METHOD: WOOD STRUCTURAL PANEL SHEATHING WITH A THICKNESS NOT LESS THAN 3/8" WITH MINIMUM SPAN RATING OF 24/0 FOR 16" OC STUD SPACING WITH 6d COMMON NAILS AT 6" OC EDGES AND 12" OC FIELD OR SHEATHING THICKNESS NOT LESS THAN 7/16" WITH MINIMUM SPAN RATING OF 24/16 FOR 24" OC SPACING WITH 8d COMMON NAILS AT 6" OC EDGES AND 12" OC IN FIELD. (NOTE: FRAMING MEMBERS 16" OC MAX, UNBLOCKED, AND WITH SHEATHING APPLIED DIRECTLY TO FRAMING

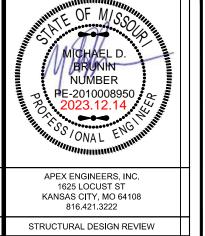
//// INTERIOR BRACED WALLS (REF 2-S4.0):

GB METHOD: ½" MIN. GYPSUM BOARD OVER STUDS SPACED 24" MAX. FASTENED WITH No 6 - 11/4" TYPE 'W' OR 'S' DRYWALL SCREWS AT 7" OC EDGES AND FIELD

(MIN. 4'-0" SECTION FOR BOTH SIDES.) OR

LIB METHOD: 1x4 WOOD FASTENED WITH (3) 8d COMMON NAILS OR SIMPSON / USP 16 GA. TYPE WB (OR EQUAL) STL. X-BRACE(S) AT 45° TO 60° ANGLES, MAXIMUM 16" O.C. STUD FASTENED PER MANUFACTURER'S SPECIFICATIONS.





KANSAS ENGINEERING LICENSE: MISSOURI ENGINEERING LICENSE: 2003004673

DRAWN BY: CJD CHECKED BY: CA

DATE:12/14/2023

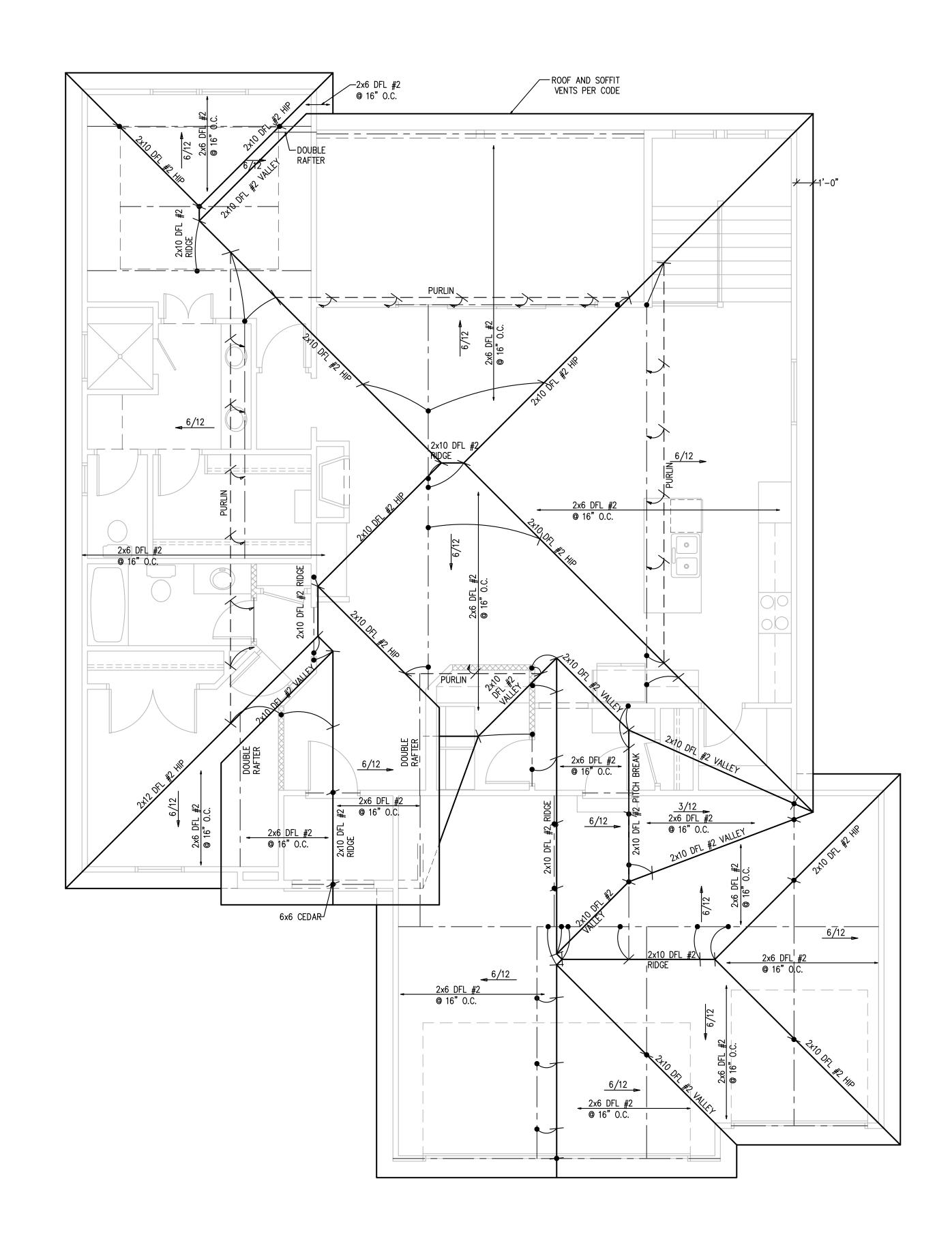


ALL WINDOWS SIZES ARE EXPRESSED IN FEET AND INCHES TO THE UNIT SIZE.

NOTE:
PLANS DESIGNED PER IRC AS
ADOPTED BY GOVERNING JURISDICTION

DATE:12/14/2023





ROOF PLAN SCALE: 1/4" = 1'-0" (2)#2-2x10 - ALL HEADERS AND BEAMS MIN #2 GRADE DF/L (OR EQ.)

STRUCTURAL NOTES:
- ALL UNMARKED HEADERS MIN

- STRUCTURE NOTED AS FLUSH TO BE FLUSH WITH SUB-FLOOR ABOVE.

ROOF FRAMING NOTES

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

ROOF SYSTEM IS DESIGNED TO MEET REQUIREMENTS OF IRC 802

*RAFTERS (HEM-FIR, DOUG-FIR, OR EQUAL): SEE SPAN CHARTS BELOW

CODE MINIMUM

| CODE MINIMUM | | | | | |
|------------------|-----------|--------------------------|--|--|--|
| RAFTERS SPACING | | MAX HORIZONTAL CLEARSPAN | | | |
| #2-2x6 | AT 24" OC | 11'-7" | | | |
| #2-2x6 AT 16" OC | | 14'-2" | | | |
| #2-2x8 | AT 24" OC | 14'-8" | | | |
| #2-2x8 | AT 16" OC | 17'-11" | | | |
| #2-2x10 | AT 24" OC | 17'-10" | | | |
| #2-2x10 | AT 16" OC | 21'-11" | | | |

NOTE: CODE MINIMUM ALLOWS FOR A RAFTER DEFLECTION OF L/180 TOTAL LOAD

HIGHER PERFORMANCE

| IIGHER PERFORMANCE | | | | |
|--------------------|-----------|--------------------------|--|--|
| RAFTERS SPACING | | MAX HORIZONTAL CLEARSPAN | | |
| #2-2x6 | AT 24" OC | 8'-6" | | |
| #2-2x6 | AT 16" OC | 9'-9" | | |
| #2-2x8 | AT 24" OC | 11'-3" | | |
| #2-2x8 | AT 16" OC | 12'-9" | | |
| #2-2x10 | AT 24" OC | 14'-3" | | |
| #2-2x10 | AT 16" OC | 16'-3" | | |

APEX ENGINEERS, INC. RECOMMENDED DEFLECTION = L/360 LIVE LOAD, L/240 TOTAL LOAD

*RIDGE BOARDS ARE (UNLESS OTHERWISE NOTED)

#2-2x10 UP TO 9:12 PITCH #2-2x12 OVER 9:12 PITCH

*ALL HIPS AND VALLEYS ARE (UNLESS OTHERWISE NOTED) #2-2x10 UP TO 9:12 PITCH

#2-2x12 OVER 9:12 PITCH

#2-2X10 HIP/VALLEY, MAX CLEAR SPAN: 11'-11" #2-2X12 HIP VALLEY, MAX HORIZ. CLEAR SPAN: 12'-11"

*PURLINS ARE 2x6 MIN

- PURLIN STRUTS ARE AT 4'-0" OC - PURLIN STRUTS SHALL BE INSTALLED AT NOT LESS

THAN A 45 DEGREE ANGLE WITH THE HORIZONTAL - ALL PURLIN STRUTS SHALL HAVE A MAX UNBRACED

LENGTH OF 8'-0"

- PURLIN STRUTS SHALL BE CONSTRUCTED IN A "T" CONFIGURATION AND PER THE FOLLOWING CHART:

| PURLIN STRUT | MAX PURLIN STRUT LENGTH | |
|-------------------|-------------------------|--|
| (2)2x4 | 8'-0" | |
| (1)2x4 AND (1)2x6 | 12'-0" | |
| (1)2x6 AND (1)2x8 | 20'-0" | |
| (2)2x6 AND (1)2x8 | 30'-0" | |
| CONSULT ARCH ENGR | >30'-0" | |

*EACH END OF STRUT SHALL BE FASTENED WITH MIN (3)8d

OR (2)16d NAILS *RIDGE BRACERS ARE SAME AS PURLIN BRACES-SPACING,

SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE NOTES ABOVE)

*HIP AND VALLEY BRACES ARE THE SAME AS PURLINS SIZE, CONFIGURATION, AND INSTALLATION (SEE PURLIN BRACE

NOTES ABOVE) = ROOF BRACE/STRUT (PER CHART) -SLASH IS TOP END OF BRACE -CIRCLE IS BOTTOM END OF BRACE

/ = PURLIN STRUTS AT 48" OC (PER CHART) U.N.O. -SLASH IS TOP END OF BRACE -ARROW IS BEARING LOCATION

XXXXXXXXX DENOTES BEARING WALL ---- DENOTES PURLIN — · — · — · — DENOTES BEARING STRUCTURE

THIS IS AN ENGINEERED ROOF STRUCTURE DESIGNED FOR COMPLIANCE WITH IRC 802.3, BUILD AS SHOWN WITH NO DEVIATIONS.

ALL HIPS ARE DESIGNED TO BE CONTROLLED BY BENDING.

SHEAR AT BEARING WITH MIN 51/2" **DEPTH DOES NOT CONTROL DESIGN. FOR VALLEYS REF 4/S3.2**

| | HING AND FRAMING | | | |
|---|--|---|--|--|
| BUILDING COMPONENT | MATERIAL | FASTENING | | |
| DOOF CHEATHING! | 7/16" PLYWOOD | 16 GA x 1-3/4" STAPLES AT 3" OC EDGES AND 6" OC IN FIELD | | |
| ROOF SHEATHING ¹ | 1x4 #3 FURRING | 1/2" CROWN STAPLES | | |
| | | 8d COMMON NAILS AT 6" OC EDGES | | |
| | 3/4" T&G YELLOW PINE PLYWOOD | AND 12" OC IN THE FIELD 14 GA x 2" STAPLES AT 4" OC | | |
| FLOOR SHEATHING1 | APPLIED PERPENDICULAR TO | EDGES AND 8" OC IN THE FIELD | | |
| | JOISTS AND ENDS STAGGERED | 12.5 GA x 1-1/2" RING OR SCREW SHANK NAILS AT 6" OC EDGES | | |
| | | AND 8" OC IN THE FIELD | | |
| | | 7" OC NAILED / 12" OC SCREWED WITH 13 GA, 1-3/8" LONG, 19/64" HEAD; 0.098 | | |
| CEILING COVERING ¹ | 1/2" GYPSUM SHEATHING | DIA, 1-1/4" LONG, ANGRINGED; 5d | | |
| OLILINO OO VLI MITO | "Z GTT GGTW GTTZ/TTTTWG | COOLER NAIL, 0.086 DIA, 1-5/8" LONG, | | |
| | | 15/64" HEAD; OR GYP BD NAIL, 0.086 DIA, 1-5/8" LONG, 9/32" HEAD | | |
| INITEDIOD WALL | | 6d COMMON NAILS; 1-5/8" | | |
| INTERIOR WALL COVERING ¹ | 1/2" GYPSUM SHEATHING | GALVANIZED STAPLES; 1-1/4" SCREWS, TYPE W OR S- AT 4" OC | | |
| | | EDGES AND 8" OC IN THE FIELD | | |
| EXTERIOR WALL SHEATHING | MIN 3/8" APA RATED SHEATHING | 8d COMMON NAILS AT 6" OC EDGES AND 12" OC IN THE FIELD | | |
| G. 1 <u>—</u> 1, 1, 1, 1, 1, 1 | | , , , , , , , , , , , , , , , , , , , | | |
| | *SUPPORTING 2 FLOORS, ROOF, | *TOE NAIL RIM JOIST TO SILL OR TOP 8d COMMON AT 6" OC; 3"x0.131" AT 6" OC; 3"x0.131" AT 6" OC | | |
| | AND CEILING OR LESS. *HEIGHT: 10'-0" OR LESS | *TOE NAIL STUD TO TOP AND SOLE PLATE: (4) 8d COMMON; (4) 3"x0.131" *END NAIL TOP AND SOLE PLATE TO STUD: (2) 16d COMMON; (3) 3"x0.131" | | |
| | SIZE: NOM 2x4 (NOM 2x6 WHEN | *FACE NAIL BUILT-UP CORNER STUDS: 16d AT 24" OC; 3"x0.131" AT 16" *FACE NAIL BUILT-UP CORNER STUDS | | |
| | SUPPORTING 2 FLOORS, CEILING, | (AT BRACED WALL PANELS): 16d COMMON NAILS AT 16" OC; 3"x0.131" AT 12" OC 1*FACE NAIL JACK STUDS/TRIMMERS | | |
| CONVENTIONAL WOOD | AND ROOF) *SPECIES: DOUG-FIR, HEM-FIR, | SUPPORTING HEADERS WITH: 10d NAILS AT 6" OC *FACE NAIL DBL TOP PLATE: 16d COMMON AT 16" OC; 3"x0.131" AT 12" OC; | | |
| FRAMED WALLS | SOUTH PINE, SPRUCE-PINE-FIR | *DBL TOP PLATES WITH MIN 48" OFFSET | | |
| | *MAXIMUM SPACING 16" OC | OF EACH. FACE NAIL LAPPED AREA WITH: (8) 16d COMMON; (12) 3"x0.131"; (12) 3"x0.128" *FACE NAIL DBL TOP PLATES AT LAPPED | | |
| | *STUDS 10' LENGTH OR LESS SHALL BE #3 STANDARD, OR STUD | CORNERS AND INTERSECTIONS WITH: (2) 16d COMMON; (3) 3"x0.131"; (3) 3"x0.128" *FACE NAIL BOLE TO FRATE AND INTERSECTIONS WITH: (2) 16d COMMON; (3) 3"x0.131"; (3) 3"x0.128" | | |
| | GRADE | SYSTEM WITH: 16d COMMON AT 16" OC; 3"x0.131" AT 12" OC *TOENAIL BRIDGING TO JOIST, EACH END: (2) 8d COMMON; (2) 3"x0.131"; (3) 3"x0.128" | | |
| | *STUDS OVER 10' LENGTH SHALL BE MIN #2 GRADE | *FACE NAIL LEDGER STRIPS SUPPORTING JOISTS OR RAFTERS WITH: (3) 16d COMMON; (4) 3"x0.131"; (4) 3"x0.128" | | |
| | BE WIIN #2 GIVABE | (6) 102 0011111011111111111111111111111111 | | |
| | | *TOE NAIL HEADERS TO WALL STUDS WITH (4) 8d | | |
| CONVENTIONAL WOOD HEADER FRAMING | PER PLAN | NAILS AT EACH END. *FACE NAIL DOUBLE PIECE HEADERS WITH 16d | | |
| TILADERTRAMING | | NAILS AT 16" CENTERS ALONG EACH EDGE. | | |
| RAFTER TIES ² | MIN 2x4 MEMBERS AT EACH RAFTER | REF TABLE R802.5.2 | | |
| RAFTER HES | MIN 2X4 MEMBERS AT EACH RAFTER | REF TABLE ROUZ.S.Z | | |
| COLLAR TIES | MIN 1x4 MEMBERS AT 48" OC | FACENAIL TO RAFTERS IN UPPER 1/3 OF | | |
| 1. NOTE: ALL SHEATHING MA | TERIALS TO BE APPLIED PERPENDICUL | ATTIC SPACE WITH (3) 10d NAILS AT EACH AR TO JOISTS AND ENDS STAGGERED. | | |
| | E REQUIRED WHEN A STRUCTURAL RIE .ULTED ROOM). SUCH SHALL BE NOTED | DGE HAS BEEN PROVIDED AND ADEQUATELY AS "STRUCTURAL" ON THE PLAN. | | |
| BUILDING COMPONENT | FASTEN TO | FASTEN WITH | | |
| | TO RIDGE/VALLEY/HIP RAFTERS | TOENAIL WITH (4) 16d | | |
| RAFTERS | TO PLATE | ENDNAIL WITH (3) 16d TOENAIL WITH (2) 16d | | |
| | | | | |
| CEILING JOISTS | TO TOP PLATE | TOENAIL WITH (3) 8d AT EACH END DISTS RUN PARALLEL TO RAFTERS | | |
| | | DRAFTERS WITH (3) 10d MIN | | |
| FLOOR JOISTS | TO SILL OR GIRDER | TOENAL WITH: (3) 8d COMMON; (3) 3"x0.131"; (4) 3"x0.128" | | |
| FLOOK 301313 | TO RIM JOIST | ENDNAIL WITH: (3) 16d COMMON; (4) 3"x0.131"; (4) 3"x0.128 | | |
| BRACED WALL PANELS | TO FRAMING MEMBER | SOLE PL, 16" OC WITH: (3) 16d COMMON; (4) 3"x0.131" TOP PL, 6" OC WITH: 8d COMMON; 3"x0.131" | | |
| PERP TO FRAMING MEMBERS ABOVE/BELOW: | TO FRAMING AND | SOLE PL, 16" OC WITH: (3) 16d COMMON; (4) 3"x0.131" | | |
| PARALLEL TO FRAMING | BLOCKING AT 16" OC | AND AT EACH BLOCK: (3) 16d COMMON; (4) 3"x0.131" | | |
| MEMBERS ABOVE/BELOW: | | TOP PL, 6" OC WITH: 8d COMMON; 3"x0.131" AND AT EACH BLOCK: (3) 8d COMMON; 3"x0.131" | | |
| | t control of the cont | · · · · · · · · · · · · · · · · · · · | | |

GLAZING

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 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 9 SQUARE FEET AND WHOSE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR OR WALKING SURFACE WITHIN 36".

ENERGY REQUIREMENTS

- 1. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED, AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER N1102.4.5.
- 2. PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER
- 3. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER 4. BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR
- 5. HOT WATER PIPES SHALL BE INSULATED AS REQUIRED PER N1103.4. 6. ALL EXHAUST FANS SHALL TERMINATE TO THE BUILDING EXTERIOR AS REQUIRED PER M1501.1.

PLENUMBS PER N1103.3.5

7. MAKEUP AIR SYSTEMS SHALL BE INSTALLED FOR KITCHEN EXHAUST HOODS THAT EXCEED 400 CFM AS REQUIRED PER M1503.6. 8. AN AIR HANDLING SYSTEM SHALL NOT SERVE BOTH THE LIVING SPACE AND THE GARAGE PER M1601.6.

ENERGY CONSERVATION

THE ENERGY EFFICIENCY OF THE DWELLING SHALL COMPLY WITH THE FOLLOWING TABLE(S) (WHERE THERE ARE DISCREPANCIES BETWEEN THIS TABLE AND THE PLÀNS, THE MOST RESTRICTIVE SHALL APPLY). IF TABLE 1 IS NOT COMPLETED AND ACCOMPANIED BY RESCHECK CALCULATIONS. THEN TABLE 2 SHALL BE APPLIED.

| DIUI DINO EL EMENT | BAILLY/ALLIE |
|------------------------------|--------------|
| BUILDING ELEMENT | MIN VALUE |
| WALLS - FRAMED | R- |
| WALLS - BASEMENT | R- |
| FLOORS - UNCONDITIONED SPACE | R- |
| FLOORS - OVER OUTSIDE AIR | R- |
| FLOORS - CRAWL SPACE | R- |
| SLAB - PERIMETER | R- |
| CEILING - FLAT | R- |
| CEILING - CATHEDRAL | R- |
| DOORS - GLASS | U- |
| DOORS - SOLID | U- |
| WINDOWS - OPERABLE | U- |
| WINDOWS - FIXED | U- |
| WINDOWS - OTHER | U- |
| FURNACE | AFUE- |
| AIR CONDITIONER | SEER- |

| AIR CONDITIONER | SEEK- |
|---|-------------------|
| NOTE: FOR USE OF TABLE 1 A ResCheck COMPLIA | ANCE FORM MUST BE |
| SUBMITTED WITH PLANS. | |
| TABLE 2 -PRESCRIPTIVE ENVELOPE (MIN PRESC | RIPTIVE APPROACH |
| ACCEPTABLE FOR ANY DWELLING.) | |
| | |

BUILDING ELEMENT

| CEILING - FLAT | K-49 |
|-------------------------------|------------------------------|
| CEILING - CATHEDRAL** | R-30 |
| CEILING - CATHEDRAL | R-38 |
| FLOORS - UNCONDITIONED SPACED | R-19 |
| FLOORS - OVER OUTSIDE AIR | R-30 |
| WALLS - BASEMENT | R-10 (CONT) OR R-13 (CAVITY) |
| CONCRETE SLAB ON GRADE | R-10 (FOR 2FT) |
| SKYLIGHTS | U=0.55 |
| WALLS - EXTERIOR (2x4) | R-13 (CAVITY) + R-5 (CONT) |
| WALLS - EXTERIOR (2x6) | R-20 |
| WALLS - CRAWL SPACE | R-19 |
| GLAZING* | U<=0.32 |
| GLAZING* | SHGF<=0.40 |

TABLE 2 PER IRC TABLE N1102.1.2 *DEFAULT U-FACTOR FOR DOUBLE PANE, ARGON FILLED LOW-E

**LIMITED TO AREAS LESS THAN 500 SQ-FT OR 20% OF CEILING AREA.

DEFERRED SUBMITTALS

1. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS FOR REVIEW BY THE BUILDING OFFICIAL. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN THE GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITH A SPECIFIED PERIOD. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL.

- 2. DEFERRED SUBMITTAL ITEMS (WHEN APPLICABLE):
- A. TRUSSES
- B. I-JOISTS
- C. GUARDRAILS AND HANDRAILS D. STEEL FABRICATED STAIRS
- E. PRE-MANUFACTURED CANOPIES AND AWNINGS
- F. PRECAST HOLLOW CORE SLABS
- G. GROUND IMPROVEMENT AND/OR STRUCTURAL FOUNDATION SOLUTIONS (SUCH AS DRILLED PIERS)

CONCRETE SCHEDULE MINIMUM STRUCTURAL CONCRETE COVER COVER FORMED SURFACES EXPOSED TO GROUND OR WEATHER UNFORMED SURFACE IN CONTACT WITH THE GROUND

| WALLS AND SLABS NOT EXPOSED TO GROUND OR WEATHER 1" | | | | | | |
|---|---|----------------|--------------|----------------------|--------------------|--|
| INTERIOR BEAMS | 1 1/2" | | | | | |
| EPOXY GROUTING | APPLICATION | ONS | | | | |
| THREADED ROD A | NCHORS | HILTI HI | Г-НҮ 200 A О | R SIMPONS | SET XP | |
| REINFORCING BAF | REINFORCING BARS HILTI HIT-HY 200 R OR SIMPONS SET XP | | | | | |
| CONCRETE USE | 28 DAY STRENGTH | CEMENT TYPE | W/C RATIO | SLUMP LIMIT (in.) | % AIR ENTRAINED | |
| FOOTINGS/PIERS | 3000 psi | N/A | 0.55 (MAX) | 5" (+/-1") | 6% +/- 1% | |
| FOUNDATION WALLS | 3500 psi | N/A | 0.50 (MAX) | 4" (+/-1") | 6% +/- 1% | |
| INTERIOR SLABS | 4000 psi | N/A | 0.50 (MAX) | 3" (+/-1") | 3% MAX | |
| SUSPENDED SLABS | 4000 psi | N/A | 0.50 (MAX) | 3" (+/-1") | 3% MAX | |

EMERGENCY EGRESS AND RESCUE

1. PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SQUARE FEET WITH A MINIMUM OPENABLE HEIGHT OF 24 INCHES AND WIDTH OF 20 INCHES.

2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC SECTION 310. 3. SMOKE ALARMS SHALL BE INSTALLED AS REQUIRED PER IRC 2018 SECTION R314. 4. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA, ON EACH FLOOR INCLUDING BASEMENTS AND HABITABLE ATTICS, AND NOT LESS THAN 3'-0" HORIZONTALLY FROM DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM

WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING. 5. CARBON MONOXIDE ALARMS SHALL BE INSTALLED AS REQUIRED PER IRC 2018 SECTION R315.

6. CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA. WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM.

FRAMING GENERAL

- 1. ALL LUMBER SIZES ARE FOR DOUGLAS FIR-LARCH UNLESS NOTED OTHERWISE 2. ALL HEADERS TO BE MIN (2) #2-2x10 UNLESS NOTED OTHERWISE. 3. BLOCK CANTILEVERS, DOORJAMBS, AND OVER BEAMS.
- 4. ALL HEADERS TO BEAR ON A MINIMUM OF (2) 2x4 STUD POSTS UNLESS NOTED **OTHERWISE** 5. INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE.
- 6. WHERE JOISTS RUN PARALLEL TO FOUNDATION WALLS, SOLID BLOCKING FOR A MINIMUM OF (2) JOIST SPACES BE PROVIDED TO A MAXIMUM OF 2'-0" CENTERS TO TRANSFER LATERAL LOADS ON THE WALL TO THE FLOOR DIAPHRAGM. THE BLOCKING SHALL BE SECURELY NAILED TO THE JOISTS AND FLOORING. NAIL JOISTS AND BLOCKING TO SILL PLATE WITH (3) 10d NAILS (IRC SECTION R602.3.(1) 7. IF DUCTS ARE INSTALLED IN THE FIRST JOIST SPACE(S), NAIL 2x4s FLAT AT 2'-0" CENTERS WITHIN THE JOIST SPACE(S) AND THEN PROVIDE SOLID BLOCKING, INSTALLED UPRIGHT, IN THE NEXT TWO JOIST SPACES. SECURE THE 2x4s TO THE
- SILL PLATE WITH (4) 10d NAILS. 8. ALL SILLS AND SLEEPERS SUPPORTED ON CONCRETE OR MASONRY AND FURRING ATTACHED TO CONCRETE OR MASONRY SHALL BE OF DECAY
- RESISTANT MATERIALS. 9. JOISTS UNDER BEARING PARTITIONS SHALL BE DOUBLED AND COMPLY WITH IRC SECTION R502.4.
- MINIMUM 3" AND SHALL BE NAILED TOGETHER WITH A MINIMUM 10d FACE NAILS. 11. JOISTS FRAMING INTO A WOOD GIRDER OR BEAM SHALL BE SUPPORTED BY APPROVED FRAMING ANCHORS OR MINIMUM 2"x2" LEDGER STRIPS. 12. FRAMING OF OPENINGS - HEADERS AND TRIMMERS SHALL BE OF SUFFICIENT CROSS SECTION TO SUPPORT THE FLOOR FRAMING. TRIMMER JOISTS SHALL BE DOUBLED WHEN THE HEADER IS SUPPORTED MORE THAN 3'-0" FROM THE
- TRIMMER JOIST BEARING. WHEN THE HEADER SPAN EXCEEDS 4'-0", THE HEADER AND TRIMMER SHALL BE DOUBLED. 13. JOISTS AT SUPPORTS SHALL BE SUPPORTED LATERALLY AT THE ENDS BY FULL-DEPTH SOLID BLOCKING NOT LESS THAN 2" NOMINAL THICKNESS OR BY ATTACHMENT TO A HEADER, BAND OR RIM JOIST OR TO AN ADJOINING STUD OR OTHERWISE PROVIDED WITH LATERAL SUPPORT TO PREVENT ROTATION. 14. WATER-RESISTIVE BARRIER SHALL BE PROVIDED OVER ALL EXTERIOR

WALLS. ONE LAYER OF No 15 ASPHALT FELT OR ANY OTHER BARRIER THAT

MEETS ASTM D226 TYPE 1 FELT. (R703.2)

15. WHERE CEILING JOISTS ARE NOT INSTALLED CONNECTED TO THE RAFTERS AT THE TOP PLATE AND/OR WHERE CEILING JOISTS ARE NOT INSTALLED PARALLEL TO THE RAFTERS, RAFTER TIES SHALL BE INSTALLED IN THE LOWER 1/3 OF THE ATTIC SPACE AND IN ACCORDANCE WITH TABLE 1-S1.0. 16. COLLAR TIES SHALL BE PROVIDED IN THE UPPER 1/3 OF THE ATTIC SPACE IN ACCORDANCE WITH TABLE 1-S1.0.

GARAGE

1. THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.

CORE OR HONEY COMBED STEEL DOOR OR 20-MINUTE FIRE RATED.

2. DOORS BETWEEN THE GARAGE AND THE DWELLING - MINIMUM 1-3/8" SOLID

3. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC

FOR ONE-HOUR FIRE-RESISTIVE CONSTRUCTION, APPLIED TO GARAGE SIDE.

WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY, THE STRUCTURE

SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY 5/8", TYPE X

GYPSUM BOARD, OR MATERIALS APPROVED FOR ONE-HOUR FIRE-RESISTIVE

STAIRS LOCATED WITHIN GARAGE SHALL BE RATED TO BE ADEQUATELY

CONSTRUCTION.

BALANCE SYSTEM.

THE TREADS.

SEPARATION DOORS PER R302.5.1.

PROTECTED WITH MATERIALS APPROVED FOR ONE-HOUR FIRE-RESISTIVE

CONSTRUCTION OR EQUIVALENT, APPLIED TO THE GARAGE SIDE. PULL DOWN

CONSTRUCTION. ATTIC ACESS PANELS LOCATED WITHIN GARAGE SHALL BE OF

x 0.120" NAILS AT 7" OC STAGGERED WITH (7) 3-1/4" x 0.120" NAILS THRU THE JAMB

5. SELF-CLOSING DEVICES SHALL BE INSTALLED FOR GARAGE AND/OR DWELLING

STAIRWAYS

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

STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW.

GUARDRAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.

3. 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

4. HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION OF 1-1/4" MINIMUM TO

6. ENCLOSED ACCESSIBLE SPACE UNDER STAIRWAYS SHALL HAVE WALLS AND

THE UNDERSIDE OF THE STAIR AND LANDING PROTECTED WITH 1/2" GYPSUM

2" MAXIMUM OR OTHER APPROVED GRASPABLE SHAPER PER IRC SECTION

5. PROVIDE A MINIMUM 6'-8" OF HEADROOM CLEARANCE IN STAIRWAYS.

7. SPIRAL STAIRS TO BE CONSTRUCTED PER IRC SECTION 311.7.10.1.

BOARD ON ENCLOSURE SIDE PER IRC SECTION 302.7.

8. SPACE STRINGERS AT 16" OC MAX.

2. PROVIDE MINIMUM 36" GUARDRAILS ON THE OPEN SIDES OF RAISED FLOORS. PORCHES, AND BALCONIES; MINIMUM 34" GUARDRAILS ON THE OPEN SIDES OF

5/8", TYPE X GYPSUM BOARD, OR MATERIALS FOR ONE-HOUR FIRE-RESISTIVE

4. 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"

INTO THE HEADER, MINIMUM 2x8 HEADER FOR ATTACHMENT OF COUNTER

AREA BY 5/8". TYPE X GYPSUM BOARD, OR EQUIVALENT MATERIALS APPROVED

GENERAL

1. PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE WITH AMENDMENTS AS ADOPTED BY THE GOVERNING JURISDICTION. IF ANY CHANGES OR DEVIATIONS FROM THE PLANS ARE MADE DURING CONSTRUCTION, CONTRACTOR SHALL NOTIFY THE APPROPRIATE AUTHORITY AND ENGINEER OF RECORD, EITHER (OR BOTH) OF WHOM MAY REQUIRE REVISED DRAWINGS OR CALCULATIONS AT ITS DISCRETION.

2. REPRODUCTION, ALTERATION, OR RE-USE BY ANY METHOD OF ALL OR PORTIONS OF THESE STRUCTURAL PLANS OR VARIATIONS THEREOF WITHOUT WRITTEN PERMISSION FROM APEX ENGINEERS, INC IS STRICTLY PROHIBITED. THE DRAWINGS AND DETAILS OF THIS SHEET SET, BEING INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF APEX ENGINEERS, INC. AN UNSEALED VERSION, OR A VERSION VOID OF APEX ENGINEERS LOGO AND/OR TITLE BLOCK,

SHALL BE CONSIDERED AN UNAUTHORIZED REPRODUCTION. 3. WHERE DISCREPENCIES EXIST BETWEEN THE STANDARD COMMENTS, NOTES FROM THE DESIGN PROFESSIONAL OR THE CODE, THE MOST RESTRICTIVE SHALL APPLY THE DWELLING SHALL COMPLY WITH THE FOLLOWING LOAD CONDITIONS

| APPLY. THE DWELLING SHALL COMPLY WITH THE FOLLOWING LOAD O | | | NG LOAD CONDITIONS |
|--|--|---------------|--------------------|
| AREA | | MIN DEAD LOAD | MIN LIVE LOAD |
| | EXTERIOR BALCONIES | 10 PSF | 60 PSF |
| | DECKS | 10 PSF | 40 PSF |
| | CEILING JOISTS/ATTICS NO STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE 3:12 OR LESS | 5 PSF | 10 PSF |
| | CEILING JOISTS/ATTICS WITHOUT STORAGE - SCUTTLE ACCESS ONLY ROOF SLOPE OVER 3:12 OR LESS | 10 PSF | 10 PSF |
| | CEILING JOISTS/ATTICS WITH STORAGE - DOOR/PULL DOWN LADDER ACCESS | 10 PSF | 20 PSF |
| | ROOMS - NON-SLEEPING | 10 PSF | 40 PSF |
| | ROOMS - SLEEPING | 10 PSF | 30 PSF |
| | ROOF - LIGHT ROOF COVERING | 10 PSF | 20 PSF |
| | ROOF - HEAVY ROOF COVERING CONCRETE/TILE/SLATE | 20 PSF | 20 PSF |

NOTE: HEAVY ROOF COVERING WILL NOT BE INSTALLED OR USED IN THE DESIGN CALCULATIONS UNLESS IT IS SPECIFICALLY NOTED ON

THE PLANS THAT THE DESIGN IS FOR HEAVY ROOF COVERINGS.

FOUNDATIONS

10. JOISTS FRAMING FROM OPPOSITE SIDES OVER BEARING SUPPORTS SHALL LAP A

1. THE FOUNDATION DESIGN SHALL BE BASED ON A MINIMUM SOIL BEARING CAPACITY OF 2000 PSF. UNLESS OTHERWISE INDICATED ON THE PLANS OR IF MODIFIED BY AN ENGINEERING REPORT BASED ON ACTUAL SITE CONDITIONS. . REFERENCE CONCRETE SCHEDULE, THIS SHEET, FOR APPLICABLE FOUNDATION CONCRETE MIX DESIGNS.

> 3. FOOTINGS SHALL EXTEND BELOW THE FROST LINE; MINIMUM DEPTH 36 INCHES BELOW GRADE.

4. UNLESS OTHERWISE NOTED ON THE PLANS OR IF SITE CONDITIONS REQUIRE OTHERWISE, FOOTINGS SHALL BE A MINIMUM OF 16" WIDE AND 8" DEEP WITH (2) #4 BARS CONTINUOUS.

5. COLUMN PADS SHALL BE A MINIMUM 30"x30"x12" WITH (4) #4 BARS EACH WAY UNLESS NOTED OTHERWISE 6. UNLESS NOTED OTHERWISE ON THE PLANS, FOUNDATION WALLS SHALL BE MINIMUM 8" THICK x 8'-0" (OR 9'-0") TALL AND REINFORCED PER DETAIL 1-S2.0 (AND 2-S2.0 WHERE APPLICABLE). FOUNDATION WALLS GREATER THAN 10'-0"

CORNERS

TALL REQUIRE A SEPERATE ENGINEERED DESIGN. PROVIDE A 2'-0" LONG INTERIOR OR EXTERIOR DEAD-MAN FOR ANY STRAIGHT WALL PANELS EXCEEDING 20'-0" IN LENGTH (REF 3-S2.0) 7. REINFORCEMENT SHALL BE MINIMUM GRADE 40 UNLESS NOTED OTHERWISE.

REINFORCEMENT SHALL LAP A MINIMUM OF 24" AT ENDS, SPLICES, AND AROUND

8. FOUNDATION WALLS SHALL BE BACKFILLED WITH A CLEAN LEAN CLAY (OR BETTER) LOW VOLUME CHANGE MATERIAL. ON-SITE MATERIAL MAY BE USED IF DEEMED ACCEPTABLE BY THE GEOTECHNICAL ENGINEER OF RECORD. 9. FOUNDATION WALLS WILL NOT ACHIEVE FULL STRENGTH UNTIL THE BASEMENT SLAB AND THE FIRST FLOOR DECK HAVE BEEN PROPERLY PLACED. IF BACKFILLING THE INTERIOR OF THE FOUNDATION WALL WITH GREATER THAN 8" OF EARTHEN FILL OR 24" OF GRANULAR FILL, A STRUCTURAL BASEMENT SLAB, OR ALTERNATE ENGINEERED SOLUTION (i.e. ENGINEERED FILL) WILL BE

10. WHERE JUMPS OR STEPS IN ELEVATION OCCUR FOUNDATION WALLS AND FOOTINGS SHALL BE FORMED CONTINUOUS AND POURED PER DETAIL 4-S2.0. 11. CONCRETE FLOOR SLABS SHALL BE A MINIMUM 4" THICK OVER A MINIMUM 4" BASE OF 1/2" OR 3/4" CLEAN GRADED ROCK, UNLESS NOTED OTHERWISE OR IF SITE CONDITIONS REQUIRE OTHERWISE

12. PROVIDE A MIN 6 MIL THICK POLYETHYLENE MOISTURE BARRIER OVER POURUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS MINIMUM 6" (NOT REQUIRED FOR GARAGE SLABS OR DETACHED ACCESSORY BUILDINGS).

13. FOR A STRUCTURAL REINFORCED CONCRETE FLOOR OVER A USABLE AREA, SUCH AS A GARGE FLOOR LOCATED OVER A STORAGE AREA, SUBMIT SEALED ENGINEERED DETAILS AND CALCULATIONS.

14. GARAGE SLABS AND BASEMENT OVERDIGS SUPPORTED BY FILL CONSISTING OF MORE THAN 24" OF GRANULAR FILL OR 8" OF EARTH SHALL BE REINFORCED PER DETAILS 1-S2.1 AND 6-2.1 RESPECTIVELY. WHERE THE LIMITATIONS OF DETAILS 1-S2.1 AND 6-S2.1 ARE NOT MET. A SEPARATE ENGINEERED DESIGN SHALL BE REQUIRED.

15. BASEMENT FOUNDATION SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WITH A MINIMUM OF 1/2" ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE AND SPACED NOT MORE THAN 3'-0" ON CENTER AND

WITHIN 12" OF EACH END PIECE. 16. FOUNDATION WALLS SHALL BE DAMP-PROOFED PER IRC SECTION R406. 17. PROVIDE A MINIMUM 4" PERFORATED DRAIN AROUND USABLE SPACE BELOW GRADE OR OTHER EQUIVALENT MATERIALS PER IRC SECTION 405.1. THE PIPE SHALL BE PLACED ON A MINIMUM OF 2" OF WASHED GRAVEL OR CRUSHED ROCK AND COVERED WITH NOT LESS THAN 6". THE DRAIN SHALL DAYLIGHT TO THE EXTERIOR BELOW THE FLOOR LEVEL OR TERMINATE IN A MINIMUM 24" DIAMETER OR 20" SQUARE SUMP PIT EXTENDING A MINIMUM 24" BELOW THE BOTTOM OF BASEMENT FLOOR.

18. INTERIOR BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.

19. INTERIOR NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE. 20. ALL EARTH RETAINING STRUCTURES ON THE SITE GREATER THAN 4'-0" TALL (EXCLUDING CONCRETE FOUNDATION WALLS RESTRAINED AT BOTH TOP AND BOTTOM) SHALL REQUIRE A SEPARATE ENGINEERED DESIGN (i.e. RETAINING WALLS, WING WALLS, ETC.).

21. INSULATION SHALL BE INSTALLED FOR ALL BASEMENT WALLS AS REQUIRED PER N1102.2.9. 22. A CONCRETE ENCASED GROUNDING ELECTRODE CONNECTION SHALL BE PROVIDED TO THE ELECTRICAL SERVICES PER E3608.1.

23. ANY GEOTECHNICAL IMPROVEMENT METHODS AND/OR STRUCTURAL SOLUTIONS (SUCH AS DRILLED PIERS) EMPLOYED TO ADDRESS UNACCEPTABLE SUBGRADE CONDITIONS SHALL BE SUBMITTED TO EOR AS ENGINEERED SHOP DRAWINGS FOR REVIEW AND APPROVAL.

EXPANSIVE SOILS DISCLAIMER:

THESE PLANS HAVE BEEN PREPARED BASED ON A PRESUMPTIVE ALLOWABLI BEARING CAPACITY AS ALLOWED BY IRC CODE AND THE LOCAL ENFORCING JURISDICTION.

APEX ENGINEERS, INC. (APEX) RECOMMENDS THAT ALL FOOTING EXCAVATION BE EVALUATED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ANY FOUNDATION ELEMENTS. GEOTECHNICAL INVESTIGATION AND/OR TESTING IS NOT A SERVICE PROVIDED OR OFFERED BY APEX.

APEX HAS NOT BEEN RETAINED TO DETERMINE THE EXPANSIVE SOIL CHARACTERISTICS OF THE SUBGRADE SOIL AND THEREFORE CANNOT BE HEL RESPONSIBLE FOR THE VOLUMETRIC CHANGES OF THE SOIL (INCLUDING BELOW THE BASEMENT SLAB). BY USE OF THESE PLANS WITHOUT AN ACCOMPANYING GEOTECHNICAL ENGINEERING REPORT. APEX SHALL NOT BE HELD LIABLE FOR ANY FUTURE MOVEMENT AND/OR DIFFERENTIAL MOVEMENT OF THE PROPOSED STRUCTURE AND THE POSSIBLE DAMAGE THAT MAY BE CAUSED AS A RESULT OF SUCH MOVEMENT. DAMAGE FROM EXPANSIVE SOILS AND/OR SETTLEMENT CAN RESULT IN AMONGST OTHER THINGS, THE FOLLOWING: BASEMENT SLAB HEAVE. SHEETROCK CRACKS. WINDOWS AND DOOR BECOMING OUT OF PLUMB AND STICKING AND/OR NOT OPENING. DAMAGE TO TILE, MOULDING, AND OTHER COSMETIC FINISHES.





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PROJE 773 S.

23-2017

TDA

PROJECT #:

DRAWN BY:

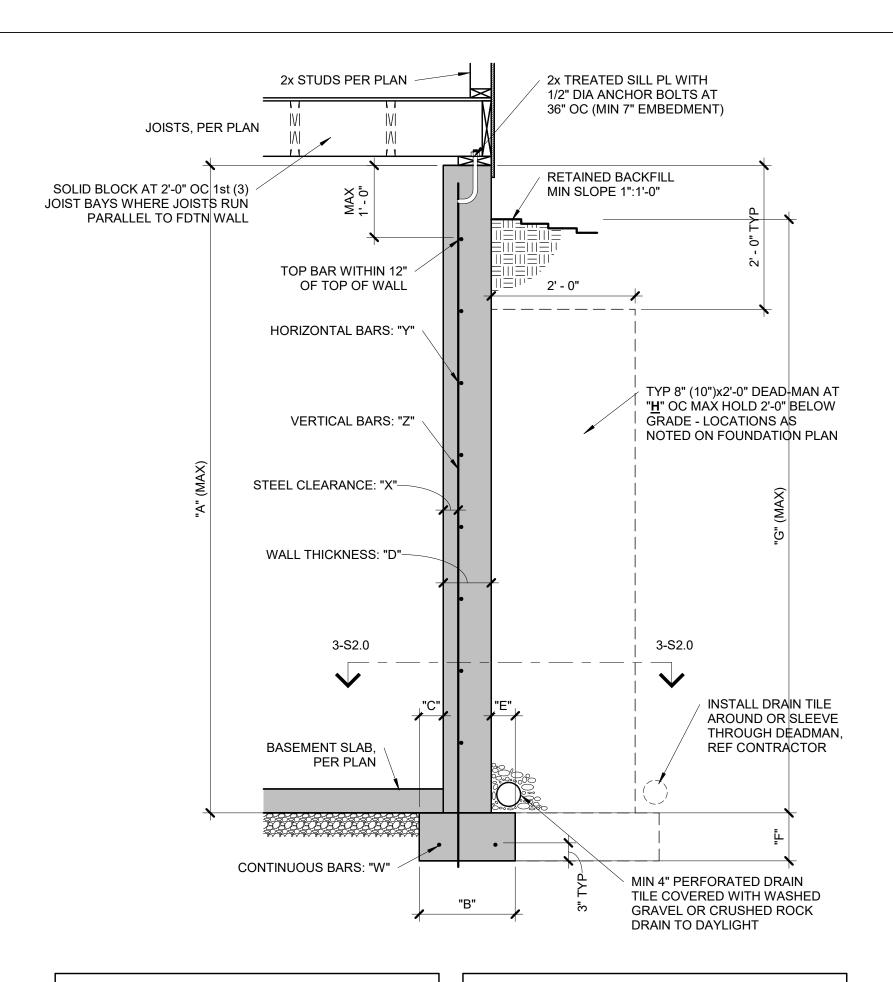
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SHEET:

GENERAL NOTES

12/20/2023



| CONCRETE DIMENSIONS | | | | | | | |
|---------------------|-------|-----|-----|-----|-----|-------|------------------|
| "A" | "B" | "C" | "D" | "E" | "F" | "G" | "H" ¹ |
| 8'-0" | 1'-4" | 4" | 8" | 4" | 8" | 7'-6" | 20'-0" |
| 9'-0" | 1'-4" | 4" | 8" | 4" | 8" | 8'-6" | 20'-0" |
| 10'-0" | 1'-8" | 5" | 10" | 5" | 10" | 9'-6" | 20'-0" |

 REINFORCING BARS (GRADE 40 BARS)

 "W"
 "X"
 "Y"
 "Z"

 (2) #4
 2 1/2"
 #4 BARS AT 24" OC
 #4 BARS AT 24" OC

 (2) #4
 2 1/2"
 #4 BARS AT 24" OC
 #4 BARS AT 24" OC

 (2) #4
 2 1/2"
 #4 BARS AT 18" OC
 #4 BARS AT 18" OC

1. DIMENSION SHOWN IS FOR MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE A DEAD-MAN SHALL BE INSTALLED. NOTE, A MINIMUM 2'-0" RETURN OR OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS A DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH.

2. VERTICAL REINFORCING STEEL TO EXTEND TO WITHIN 8" OF TOP WALL. MINIMUM (1) #4 HORIZONTAL BAR WITHIN 12" OF

TOP AND BOTTOM OF WALL.
3. BURIED CONCRETE FOUNDATION WALLS UP TO 9'-0" TALL MAY BE 8" NOMINAL THICKNESS WITH #4 BARS AT 24" OC BOTH WAYS OVER 16"x8" CONCRETE FOOTINGS WITH (2) #4 BARS CONTINUOUS, UNLESS OTHERWISE REQUIRED BY

ENGINEERING REPORT BASED ON ACTUAL SITE CONDITIONS.
4. WALL WILL NOT ACHIEVE FULL STRENGTH UNTIL FIRST FLOOR DECK AND BASEMENT SLAB HAVE BEEN PLACED.

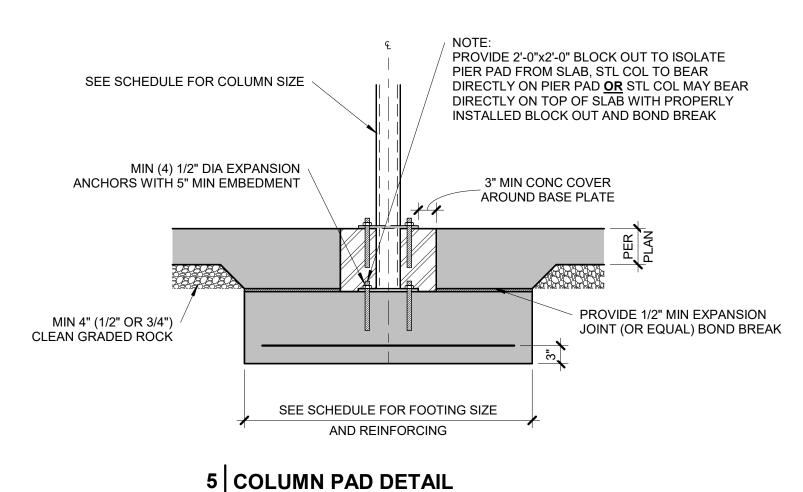
TYPICAL FOUNDATION WALL

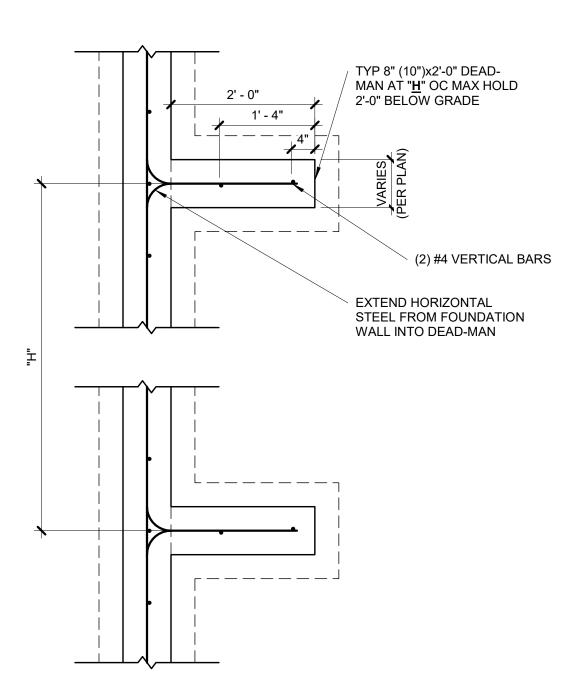
1 DETAIL

S2.0 3/4" = 1'-

| COLUMN AND PIER PAD SCHEDULE | | | |
|-------------------------------------|-------------|------------------|-----------------------|
| COLUMN MARK | PAD SIZE | REINFORCING | COL SIZE |
| Á | 30"x30"x12" | (4) #4 BARS E-W | 3" SCH 40 (3.5" OD) |
| <u>B</u> | 36"x36"x12" | (4) #4 BARS E-W | 3" SCH 40 (3.5" OD) |
| <u>Ĉ</u> | 42"x42"x12" | (5) #4 BARS E-W | 3" SCH 40 (3.5" OD) |
| ΔÒ | 48"x48"x12" | (6) #4 BARS E-W | 3 1/2" SCH 40 (4" OD) |
| Æ | 54"x54"x16" | (8) #4 BARS E-W | REF PLAN |
| Æ | 60"x60"x16" | (10) #4 BARS E-W | REF PLAN |

1. COLUMN AND PIER PAD SIZES SHOWN ARE FOR MAXIMUM ADJUSTABLE COLUMN HEIGHT OF 9'-1", REQUIRES SEPARATE ENGINEERED DESIGN IF GREATER THAN 9'-1" TALL. COLUMNS SIZED AS QWIK-ADJUST COLUMN, BY QUALITY WAY PRODUCTS, LLC. REFER TO SAFE LOADING CAPACITIES PER MANUF SPECS, OR SUBSTITUTION TO ANOTHER PRODUCT ONLY WITH PRIOR APPROVAL BY APEX ENGINEERS.
2. COLUMN AND PIER PAD SIZES SHOWN ARE BASED ON AN ASSUMED MINIMUM ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF.





NOTES:

1. MIN 3000 PSI FOOTING COMPRESSIVE CONCRETE STRENGTH.

2. MIN 3000 PSI WALL COMPRESSIVE CONCRETE STRENGTH.

3. AIR ENTRAINED BETWEEN 5% & 7% OF CONCRETE VOLUME.

4. GRADE 40 REINFORCING STEEL UNLESS OTHERWISE NOTED.

5. LAP SPLICES 24" MIN.

6. WALL SHALL BE BACK-FILLED WITH CLEAN, LEAN CLAY (OR BETTER) LOW

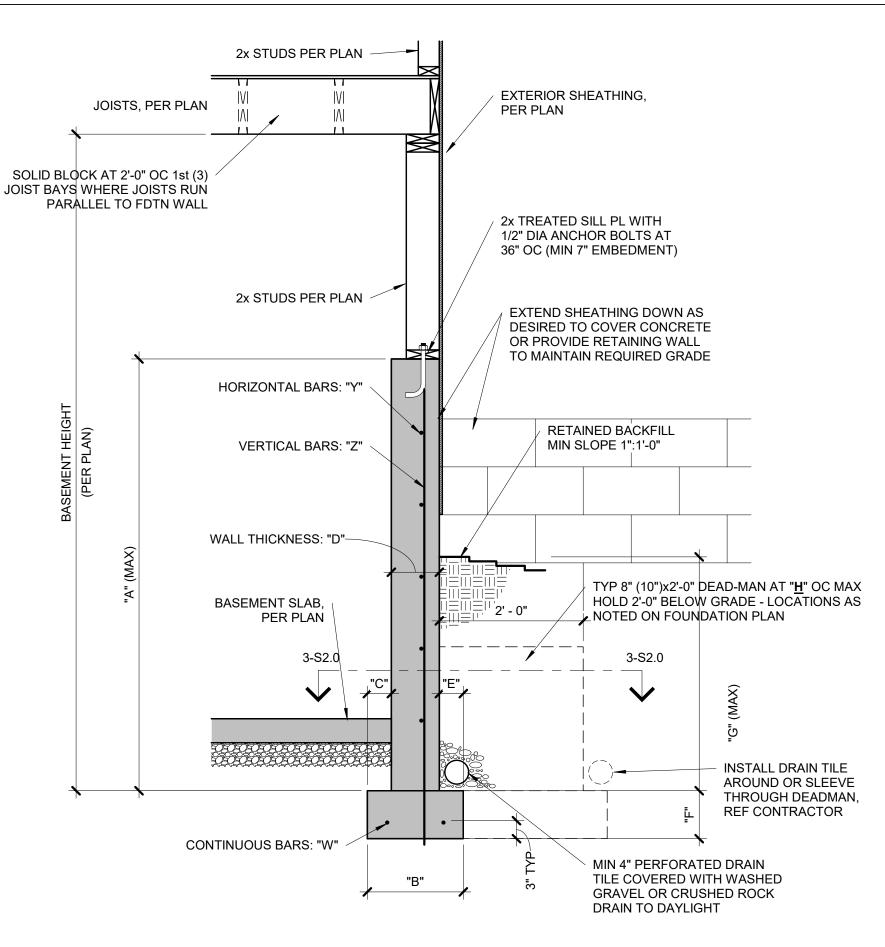
VOLUME CHANGE MATERIAL. ON-SITE MATERIAL MAY BE USED IF DEEMED

7. ASSUMED 2,000 PSF BEARING (TO BE VERIFIED BY GEOTECHNICAL ENGINEER).

3 TYPICAL DEAD-MAN SECTION

ACCEPTABLE BY THE GEOTECHNICAL ENGINEER

\$2.0 3/4" = 1'-0"



CONCRETE DIMENSIONS "A" "B" "C" "D" "E" "F" "G" "H"¹ 4'-0" 1'-4" 4" 8" 4" 8" 3'-4" 20'-0" 6'-0" 1'-4" 4" 8" 4" 8" 4'-4" 20'-0" 9'-0" 1'-8" 5" 8" 4" 8" 4'-4" 20'-0"

NOTES:

1. DIMENSION SHOWN IS FOR MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE A DEAD-MAN SHALL BE

INSTALLED. NOTE, A MINIMUM 2'-0" RETURN OR OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS A DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH.
2. VERTICAL REINFORCING STEEL TO EXTEND TO WITHIN 8" OF TOP WALL. MINIMUM (1) #4 HORIZONTAL BAR WITHIN 12" OF

 VERTICAL REINFORCING STEEL TO EXTEND TO WITHIN 8" OF TOP WALL. MINIMUM (1) #4 HORIZONTAL BAR WITHIN 12 TOP AND BOTTOM OF WALL.

3. 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' 2 | FOUNDATION WALL DETAIL

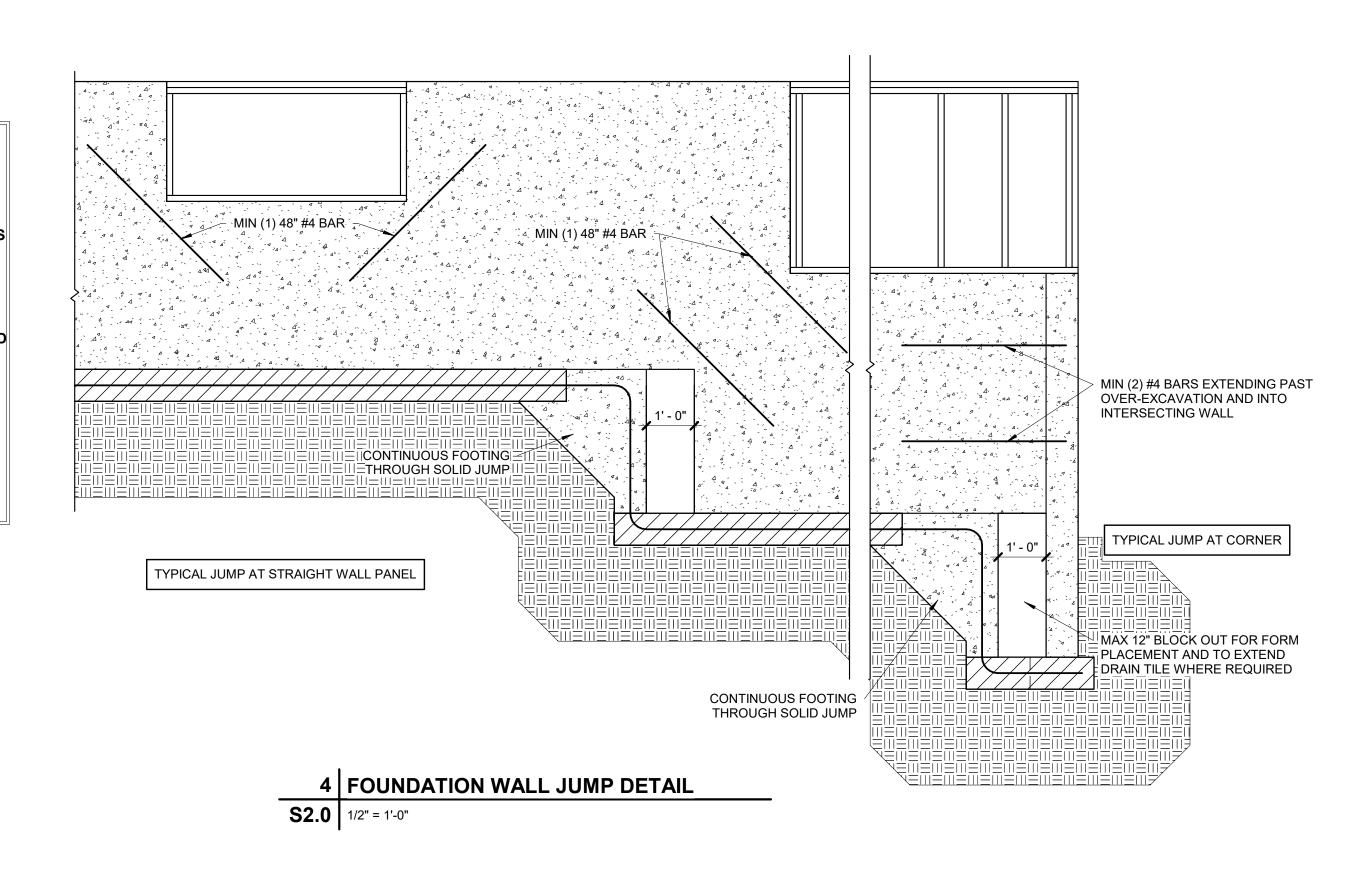
S2.0 3/4" = 1'-0

EXPANSIVE SOILS DISCLAIMER

THESE PLANS HAVE BEEN PREPARED BASED ON A PRESUMPTIVE ALLOWABLE BEARING CAPACITY AS ALLOWED BY IRC CODE AND THE LOCAL ENFORCING JURISDICTION.

APEX ENGINEERS, INC. (APEX) RECOMMENDS THAT ALL FOOTING EXCAVATIONS BE EVALUATED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF ANY FOUNDATION ELEMENTS. GEOTECHNICAL INVESTIGATION AND/OR TESTING IS NOT A SERVICE PROVIDED OR OFFERED BY APEX.

APEX HAS NOT BEEN RETAINED TO DETERMINE THE EXPANSIVE SOIL CHARACTERISTICS OF THE SUBGRADE SOIL AND THEREFORE CANNOT BE HELD RESPONSIBLE FOR THE VOLUMETRIC CHANGES OF THE SOIL (INCLUDING BELOW THE BASEMENT SLAB). BY USE OF THESE PLANS WITHOUT AN ACCOMPANYING GEOTECHNICAL ENGINEERING REPORT, APEX SHALL NOT BE HELD LIABLE FOR ANY FUTURE MOVEMENT AND/OR DIFFERENTIAL MOVEMENT OF THE PROPOSED STRUCTURE AND THE POSSIBLE DAMAGE THAT MAY BE CAUSED AS A RESULT OF SUCH MOVEMENT. DAMAGE FROM EXPANSIVE SOILS AND/OR SETTLEMENT CAN RESULT IN AMONGST OTHER THINGS, THE FOLLOWING: BASEMENT SLAB HEAVE, SHEETROCK CRACKS, WINDOWS AND DOOR BECOMING OUT OF PLUMB AND STICKING AND/OR NOT OPENING, DAMAGE TO TILE, MOULDING, AND OTHER COSMETIC FINISHES.



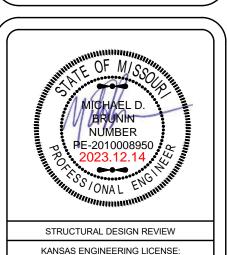
ENGINEERS, INC.

1625 LOCUST ST

KANSAS CITY, MO 64108

816.421.3222

www.apex-engineers.com

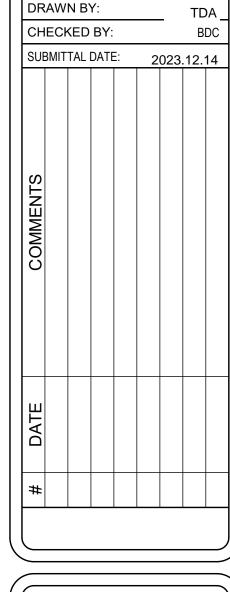


MISSOURI ENGINEERING LICENSE: 2003004673

ghland Meadows - Lot 184
e's Summit, Missouri

PROJECT #:

23-2017

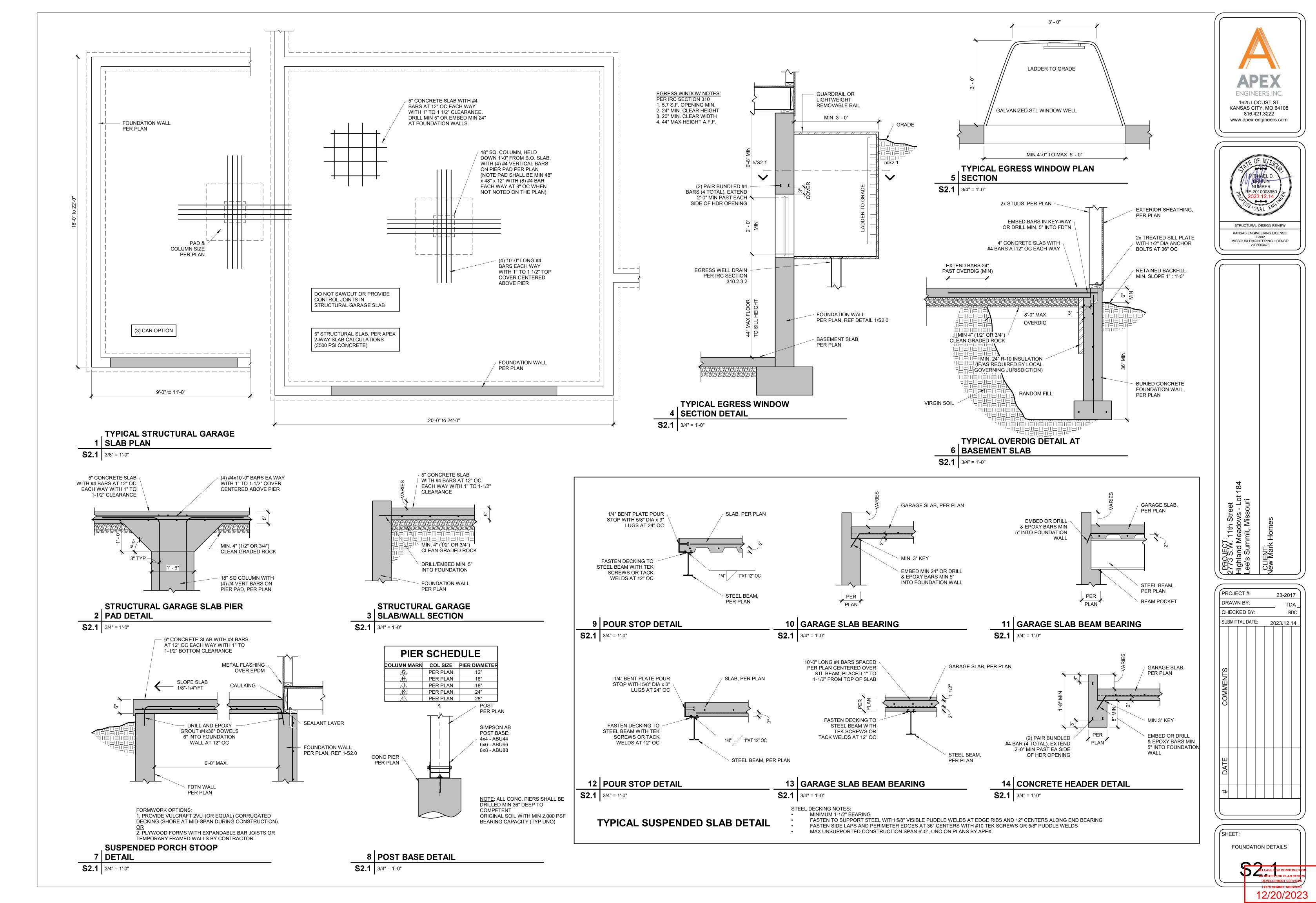


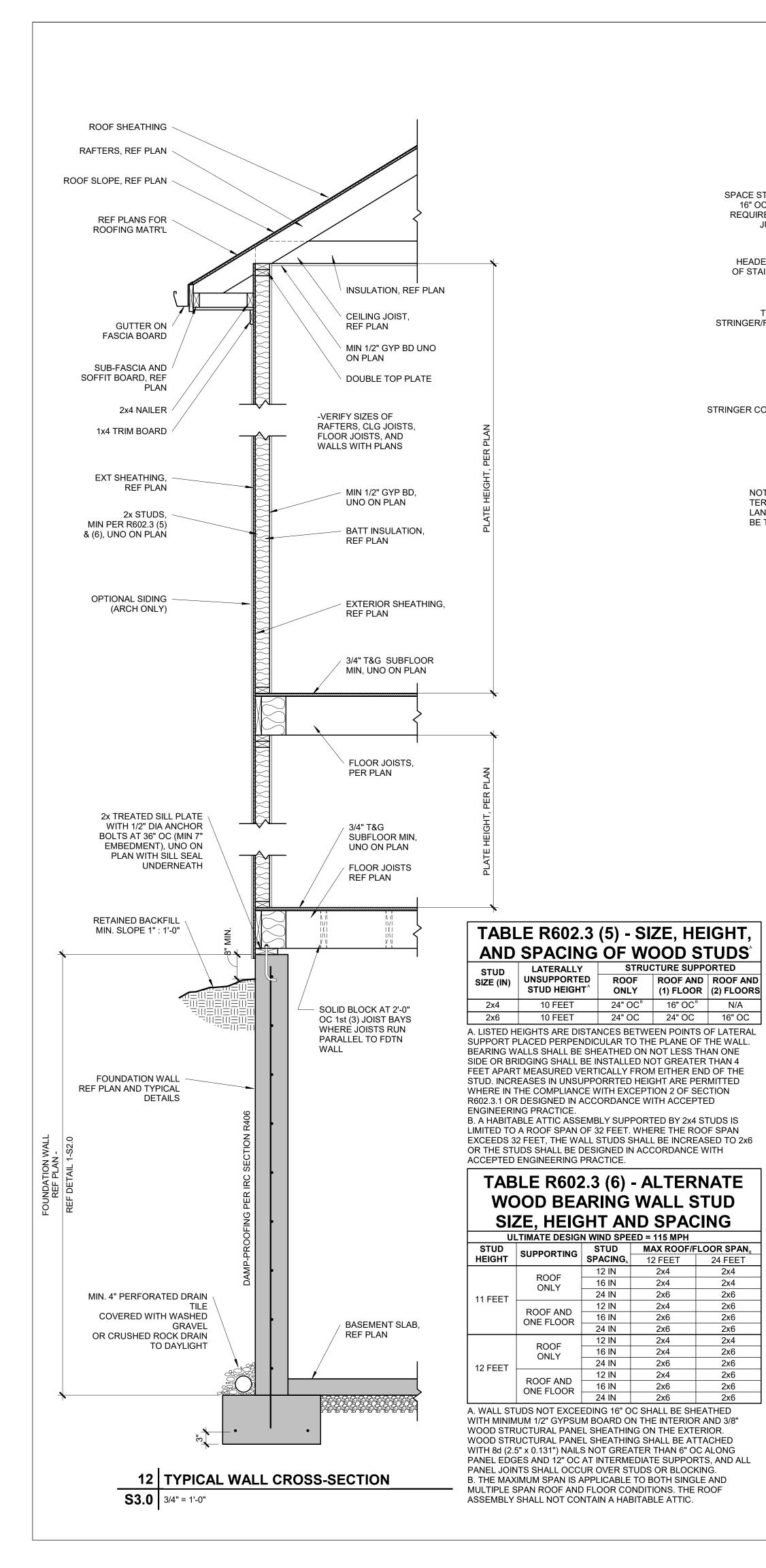
SHEET:

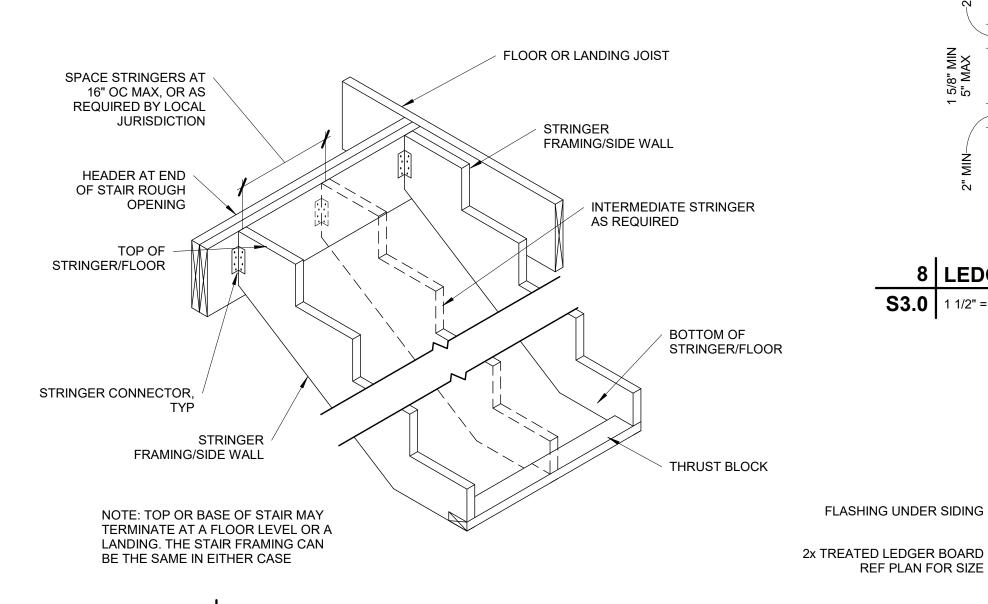
FOUNDATION DETAILS

PLEASE FOR CONSTRUCTION
AS NOTES FOR PLAN REVIEW
DEVELOPMENT SERVICES
LECTO SUMMIT, MISSOURI

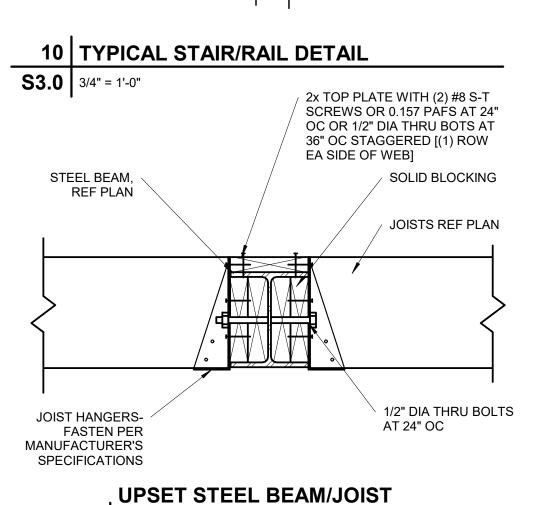
12/20/2023







11 TYPICAL STRINGER DETAIL **S3.0** 3/4" = 1'-0" **GUARDRAIL** 3 7/8" DIA SPHERE MUST NOT PASS THRU AT ANY POINT USE AT ALL FLOOR OPENINGS GREATER THAN 30" ABOVE GRADE OR THE FLOOR BELOW AND/OR 10" MIN. STAIRS WITH THREE OR MORE



9 CONNECTION

S3.0 1 1/2" = 1'-0"

MAX ROOF/FLOOR SPAN_B

12 FEET 24 FEET

2x6

2x6

2x4

2x6

2x6

2x6

2x6

2x6

2x6

2x4

2x4

STUD

SPACING,

12 IN

16 IN

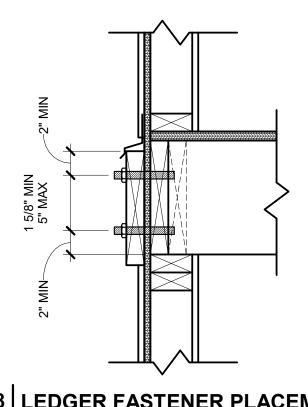
24 IN

12 IN

16 IN

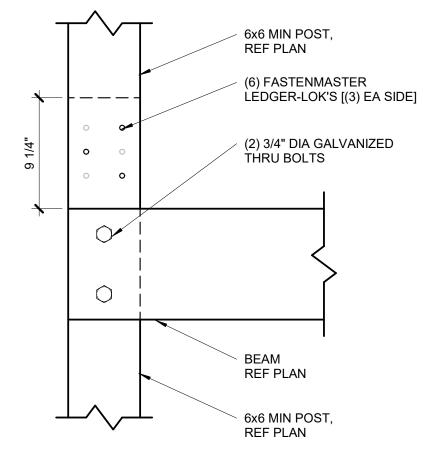
16 IN

24 IN



8 LEDGER FASTENER PLACEMENT

S3.0 1 1/2" = 1'-0"



SPLICED DECK COLUMN 4 CONNECTION

S3.0 1 1/2" = 1'-0"

6x6 MIN POST, REF PLAN RIM JOIST WITH INVERTED HANGERS ATTACHED TO CANTILIVERED JOISTS (6) FASTENMASTER LÉDGER-LOK'S [(3) EA SIDE] THE TIP OF THE LAG SHALL FULLY EMBIL ANIMANIANA
ANIMANIANA
EMBIL ANIMANIANA
ANIMANIANA
ANIMANIANA
ANIMANIANA
ANIMANIANA
ANIMANIANA EXTEND BEYOND THE INSIDE FACE OF THE BAND JOIST (2) 3/4" DIA GALVANIZED THRU BOLTS FLOOR JOISTS, REF PLAN 2' - 0" MAX (OR PER PLAN) **BLOCK BETWEEN JOISTS REF PLAN** 6x6 MIN POST

S3.0 1 1/2" = 1'-0"

TYPICAL CANTILEVER FRAMING 7 | WITH DECK ATTACHMENT

S3.0 3/4" = 1'-0"

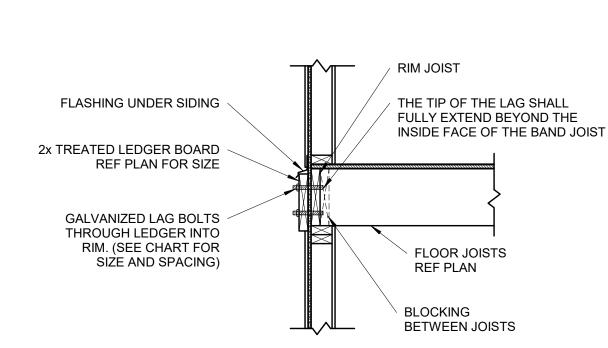
REF PLAN FOR SIZE

GALVANIZED LAG BOLTS

THROUGH LEDGER INTO RIM. (SEE CHART FOR

SIZE AND SPACING)

SPLICED DECK COLUMN 3 CONNECTION



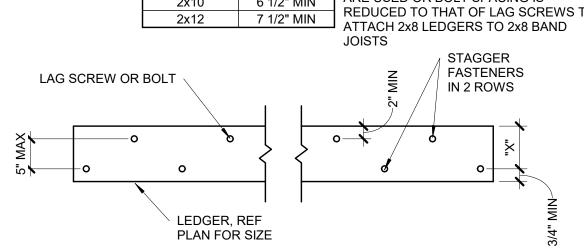
| DECK JOIST SPAN | 1/2" DIA LAG SPACING | EQUIVALENT SPACING FOR 16" OC JOIST BAYS |
|------------------|----------------------|---|
| UP TO 10'-0" | 16" OC | N/A |
| 10'-1" TO 12'-0" | 15" OC | 16" OC DBL EVERY OTHER |
| 12'-1" TO 14'-0" | 13" OC | 16" OC DBL EVERY OTHER |
| 14'-1" TO 16'-0" | 11" OC | 16" OC DBL EVERY JOIST BAY |
| 16'-1" TO 18'-0" | 10" OC | 16" OC DBL EVERY JOIST BAY |

6 TYPICAL LEDGER ATTACHMENT **S3.0** 3/4" = 1'-0"

"X" *DISTANCE SHALL BE PERMITTED TO BE 5 1/2" MIN REDUCED TO 4 1/2" IF LAG SCREWS 6 1/2" MIN

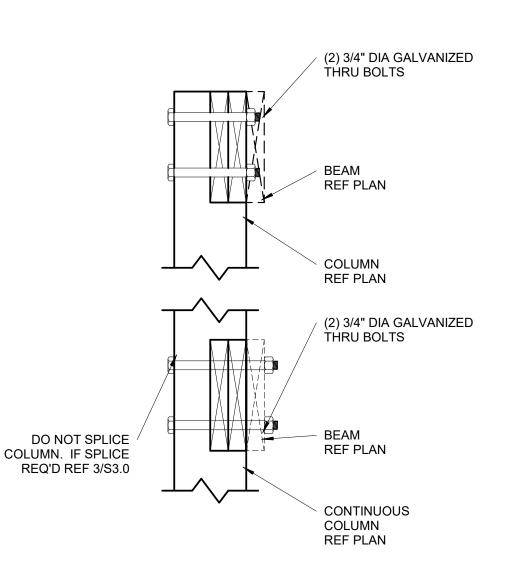
7 1/2" MIN

REDUCED TO THAT OF LAG SCREWS TO



5 TYPICAL LEDGER BOLT SPACING

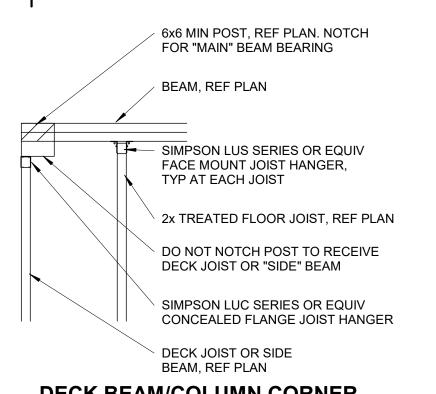
S3.0 3/4" = 1'-0"



REF PLAN

DECK BEAM/COLUMN 2 CONNECTION

S3.0 1 1/2" = 1'-0"

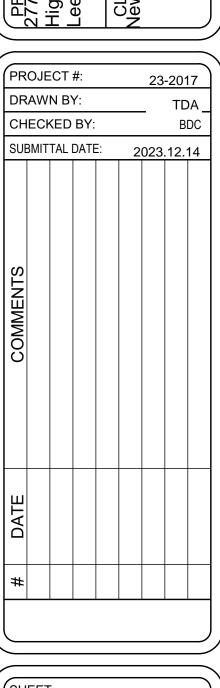


DECK BEAM/COLUMN CORNER 1 CONDITION

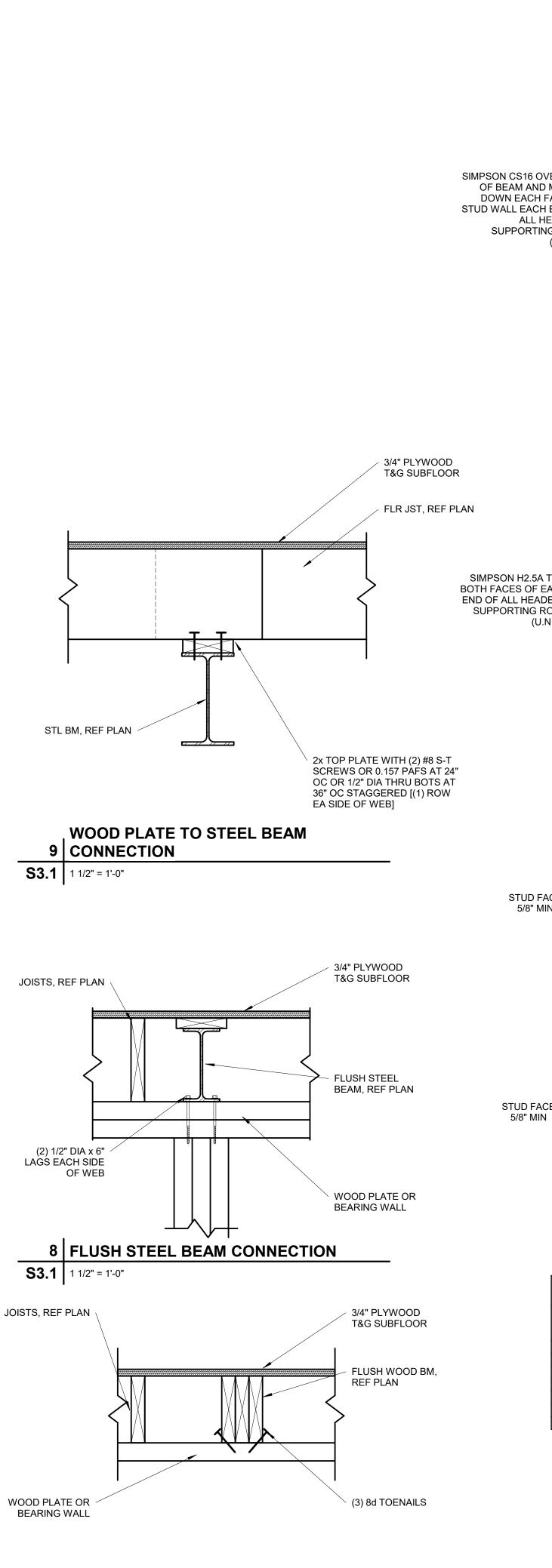
S3.0 3/4" = 1'-0"







SHEET: FRAMING DETAILS 12/20/2023



7 | FLUSH WOOD BEAM CONNECTION

S3.1 1 1/2" = 1'-0"

1 1/4" x 20 GAUGE RIDGE STRAPS

1x4 COLLAR TIES AT 48" OC MAX

UPPER 1/3" OF CEILING SPACE (MEASURED FROM THE PLATE

HEIGHT TO THE RIDGE HEIGHT)

2x PLATE T&B, UNO

FASTEN PLATE TO EACH

VERT MEMBER WITH 10d

HEADER VERT MEMBERS,

BETWEEN VERT MEMBERS

REF MULTIPLE PLY BEAM

4 - PLY

(2) ROWS OF 1/2' DIA

12" OC STAGGERED

3-1/2" NAILS AT 4" A307 THRU-BOLTS A

NAILING SCHEDULE

HEADERS WITH 1" AND LESS GAP

BETWEEN VERT MEMBERS

NAILS AT 16" OC UNO

PLYWOOD PACKOUT

REF PLAN

WITH (3) 10d NAILS AT EACH END IN

RIDGE BEAM,

RAFTERS

PER PLAN

PER PLAN

12 RIDGE BEAM DETAIL

11 TYPICAL WOOD HEADER DETAIL

3 - PLY (3) ROWS OF 16d x

OC

NAILING SHOWN APPLIES UNLESS SPECIFICALLY NOTED

SPACE NAILS EVENLY THROUGHOUT DEPTH OF BEAM.

, MULTIPLE PLY BEAM NAILING

S3.1 3/4" = 1'-0"

2x PLATE T&B, UNO

FASTEN PLATE TO EACH

VERT MEMBER WITH 10d

NAILS AT 16" OC UNO

MEMBERS, REF PLAN

AND 4'-0" OC MAX

HEADERS WITH GREATER THAN 1"
GAP BETWEEN VERT MEMBERS

S3.1 NOT TO SCALE

2 - PLY

(3) ROWS OF 16d x

3-1/2" NAILS AT 6"

10 SCHEDULE

S3.1 NOT TO SCALE

IN DETAILS.

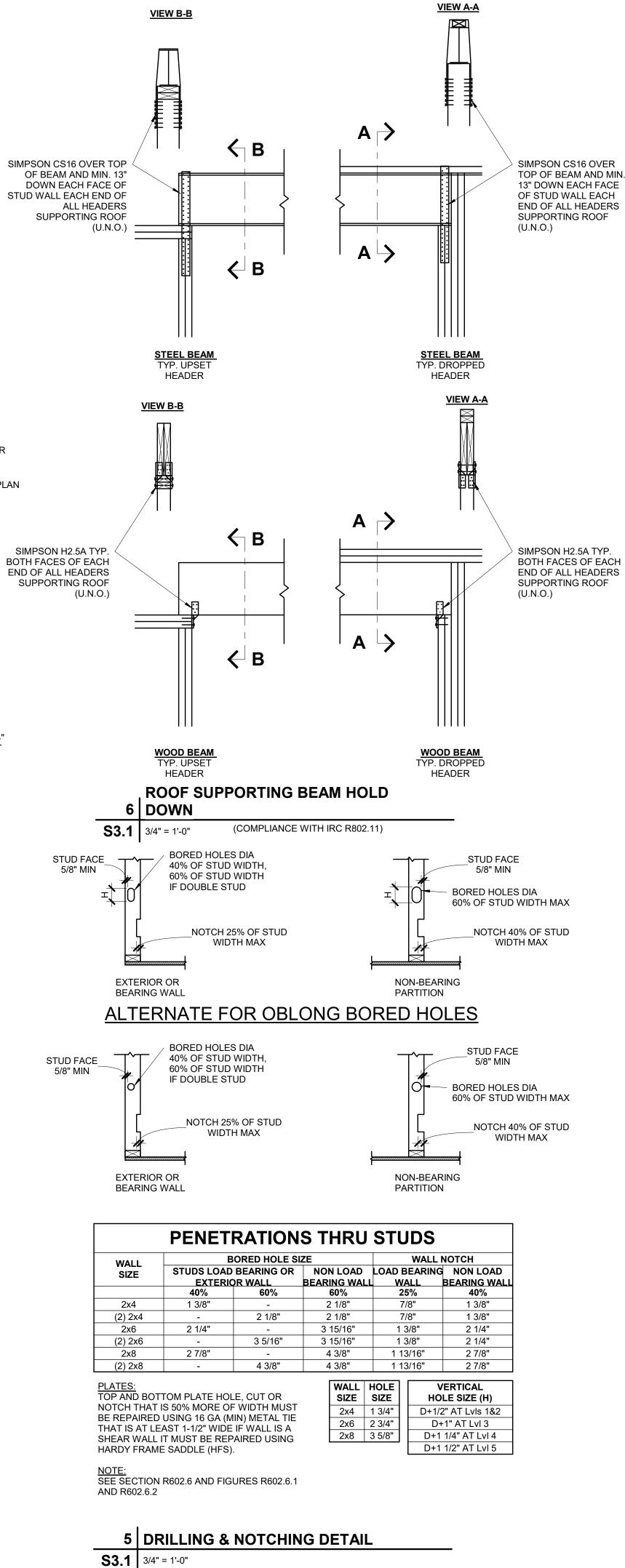
2x PACKOUT AT EACH END

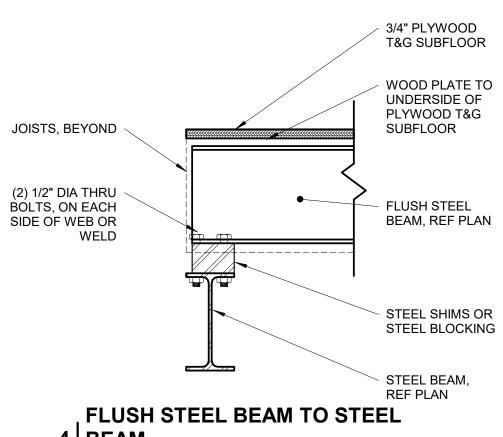
THROUGHOUT HEADER SPAN

FASTEN VERT MEMBERS TO

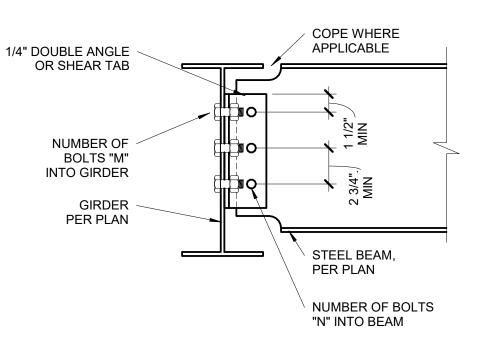
PACKOUT WITH (3) 10d NAILS

HEADER VERT





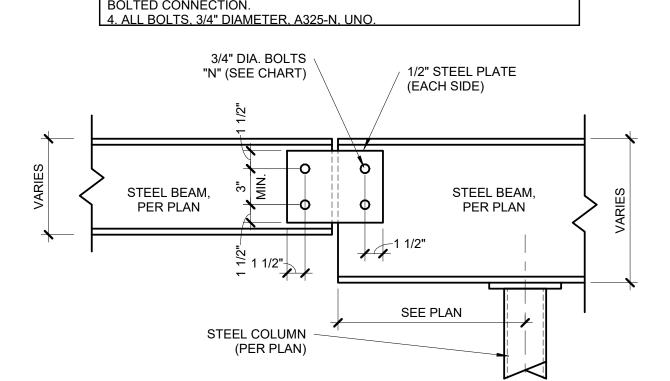
4 BEAM **S3.1** 1 1/2" = 1'-0"



3 BEAM TO GIRDER CONNECTION

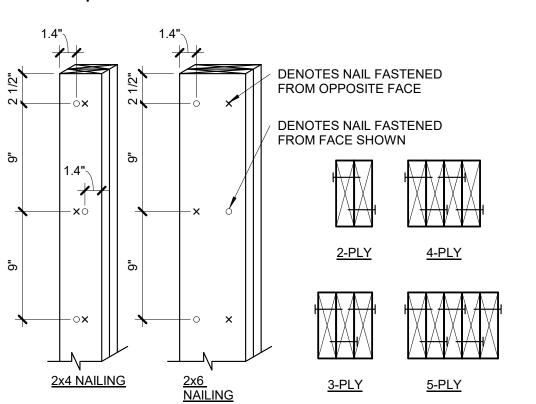
S3.1 1 1/2" = 1'-0"

| BEAM CONNECTION SCHEDULE | | | |
|---------------------------------------|---|----------------|--|
| BEAM SIZE | # OF BOLTS "N" | # OF BOLTS "M" | |
| W8, W10 | 2 | 4 | |
| W12, W14 | 3 | 6 | |
| W16, W18 | 4 | 8 | |
| 2. NUMBER OF BOLTS SMALLER OF TWO BEA | NS ARE TYPICAL, UNO. IN UPSET BEAM CONNECT AMS AT CONNECTION. LLET WELD MAY BE SUBST | | |





S3.1 1 1/2" = 1'-0"



- EACH 2x PLY SHALL BE FASTENED WITH (1) ROW OF 10d NAILS AT 9" OC, ALTERNATING SIDE TO SIDE

 1.4" MIN EDGE DISTANCE, AND STARTING 2 1/2" FROM EACH END.
- EXTEND FULL AREA OF COLUMN AS SOLID BLOCKING THROUGH JOIST BAYS AND WALLS TO LOAD-BERAING BEAM/WALL BELOW

BUILT-UP STUD COLUMN

S3.1 1 1/2" = 1'-0"

PROJECT: 2773 S.W. 11th Street Highland Meadows - Lot 1 Lee's Summit, Missouri PROJECT #: 23-2017 DRAWN BY: TDA_ CHECKED BY: BDC SUBMITTAL DATE: 2023.12.14

SHEET:

FRAMING DETAILS

12/20/2023

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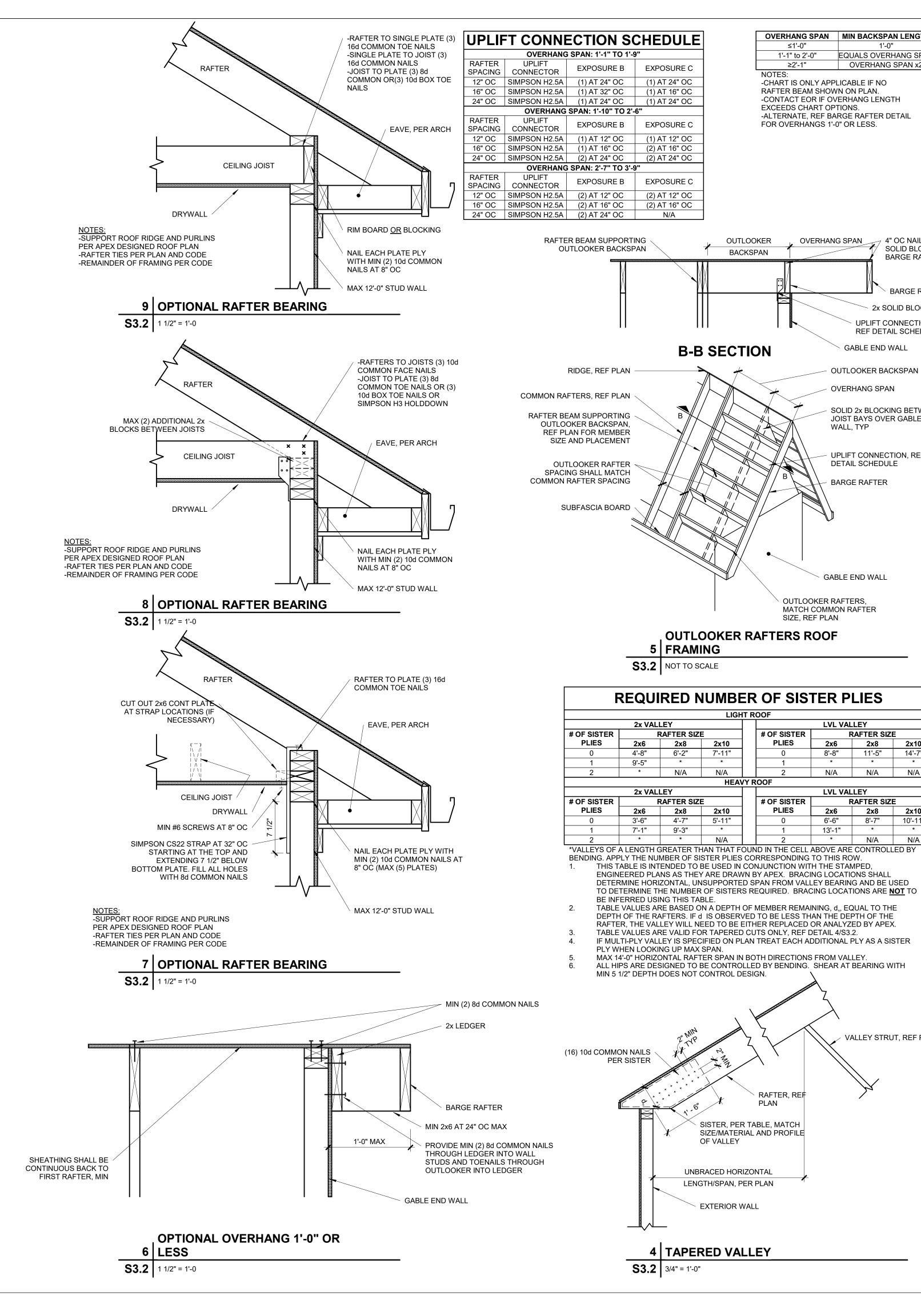
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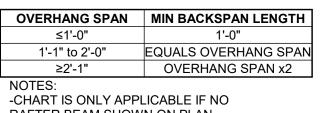
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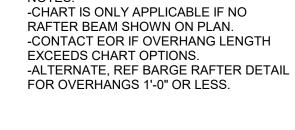
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STRUCTURAL DESIGN REVIEW

KANSAS ENGINEERING LICENSE: E-992 MISSOURI ENGINEERING LICENSE: 2003004673







OVERHANG SPAN

OUTLOOKER

BACKSPAN

B-B SECTION

4" OC NAIL SPACING AT

BARGE RAFTER

BARGE RAFTER

2x SOLID BLOCKING

UPLIFT CONNECTION,

GABLE END WALL

OUTLOOKER BACKSPAN

SOLID 2x BLOCKING BETWEEN

JOIST BAYS OVER GABLE END

UPLIFT CONNECTION, REF

DETAIL SCHEDULE

BARGE RAFTER

GABLE END WALL

LVL VALLEY

LVL VALLEY

8'-8"

RAFTER SIZE

2x6 2x8 2x10

N/A N/A N/A

2x6 2x8 2x10

6'-6" 8'-7" 10'-11" 13'-1" * *

RAFTER SIZE

11'-5" 14'-7" * *

VALLEY STRUT, REF PLAN

OUTLOOKER RAFTERS,

SIZE, REF PLAN

LIGHT ROOF

HEAVY ROOF

N/A

N/A

6'-2" *

N/A

4'-7"

9'-3"

OF SISTER

PLIES

OF SISTER

PLIES

RAFTER, REF

SISTER, PER TABLE, MATCH

SIZE/MATERIAL AND PROFILE

OF VALLEY

UNBRACED HORIZONTAL

LENGTH/SPAN, PER PLAN

EXTERIOR WALL

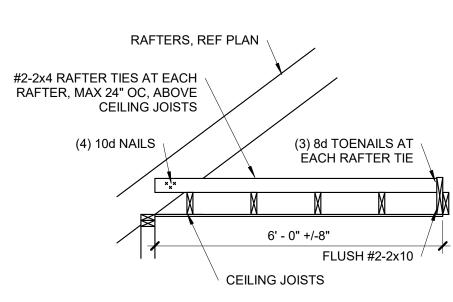
MATCH COMMON RAFTER

OVERHANG SPAN

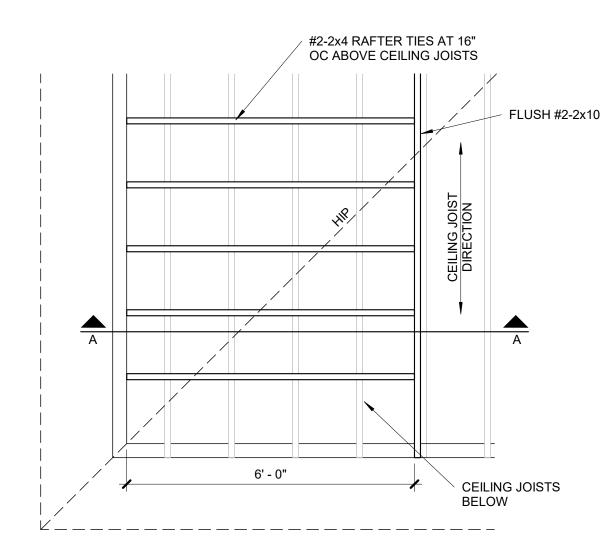
WALL, TYP

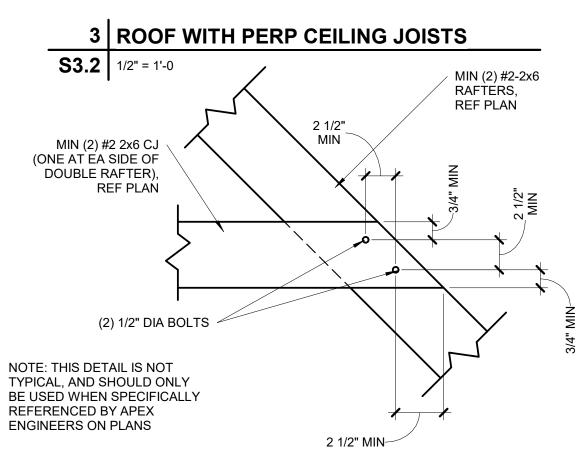
REF DETAIL SCHEDULE

SOLID BLOCKING AND



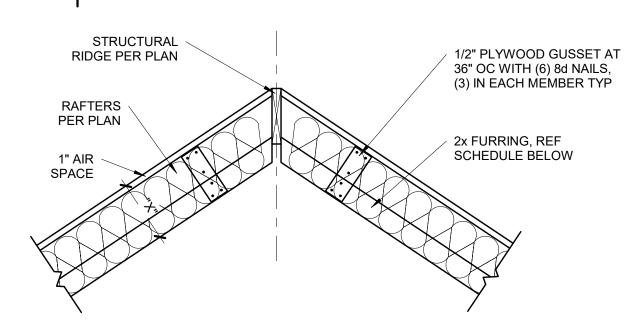
A-A SECTION





BOLTED RAFTER HIP 2 CONNECTION

S3.2 1 1/2" = 1'-0"



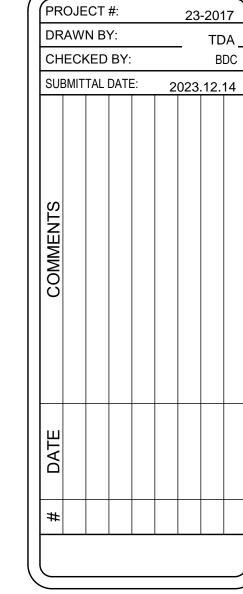
| | R-30C INSULATION (X= 9 1/4") | R-38C INSULATION (X=11 1/4") |
|---------------------------|--|------------------------------|
| 2x6 | 2x6 | 2x8 |
| 2x8 | 2x4 | 2x6 |
| 2x10 | NOT REQUIRED | 2x4 |
| 2x12 | NOT REQUIRED | REQUIRED |
| 2. ALL VAULTS REQUIRED DE | UNLESS NOTED OTHERWISE. S SHALL BE FURRED DOWN WITE EPTH OF INSULATION, PLUS 1" A LATION = 8 1/4" THICK LATION = 10 1/4" THICK | |

VAULTED RAFTER INSULATION 1 FURR OUT

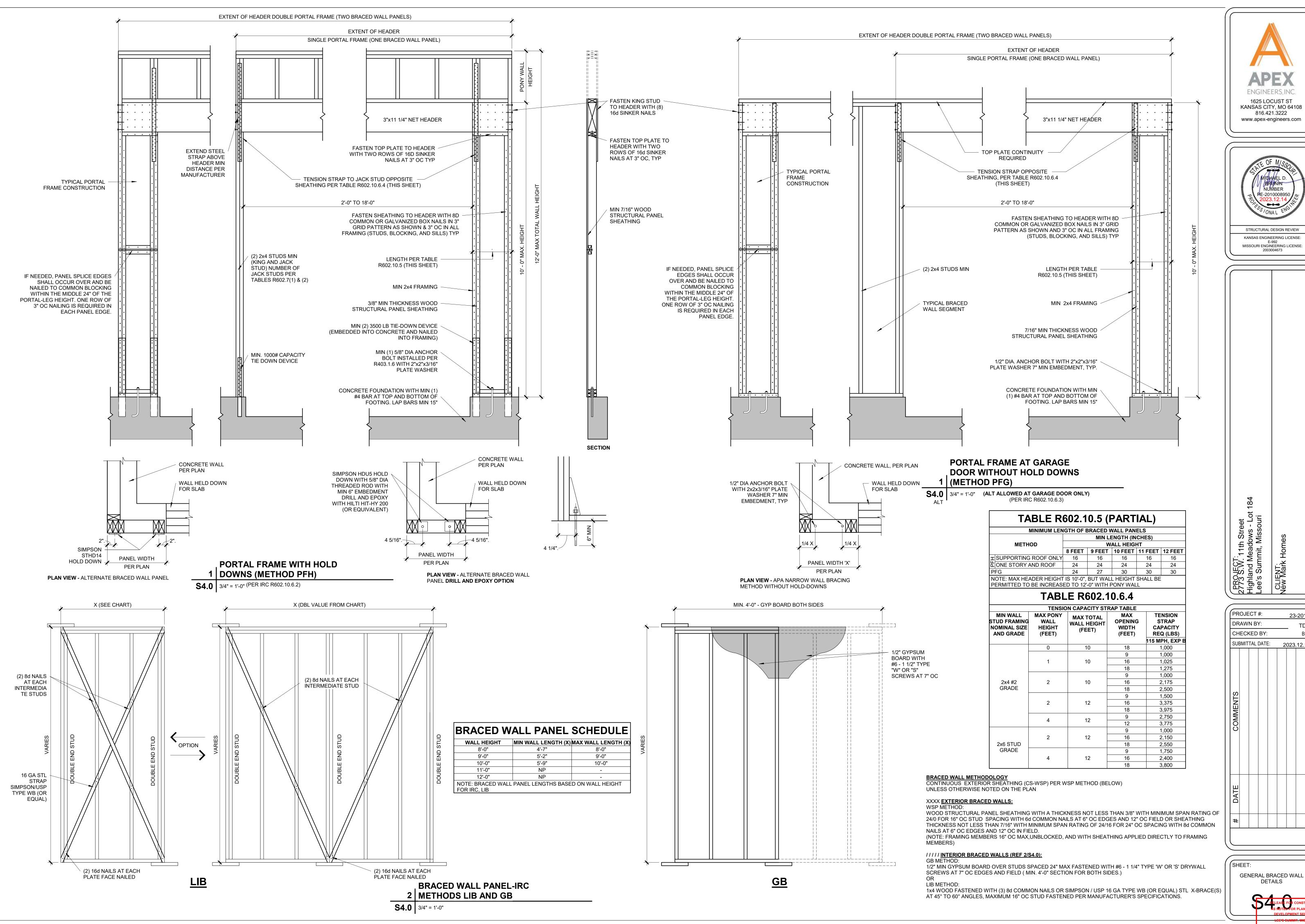
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PROJECT: 2773 S.W. 11th Street Highland Meadows - Lo



SHEET: FRAMING DETAILS 12/20/2023



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TDA BDC 2023.12.14

GENERAL BRACED WALL **DETAILS**

12/20/2023

