

1st Floor	935
2nd Floor	1302
Garage	381
Front Porch	83
Covered Back Porch	199
2nd Car Garage Option	288

2237

31 LDP

McDowell C

Genesis Series
v.05.03.00.00

GARAGE LEFT

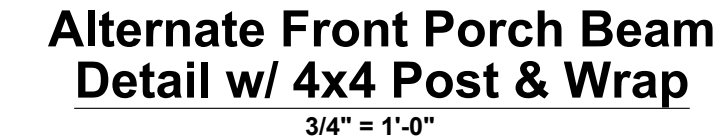
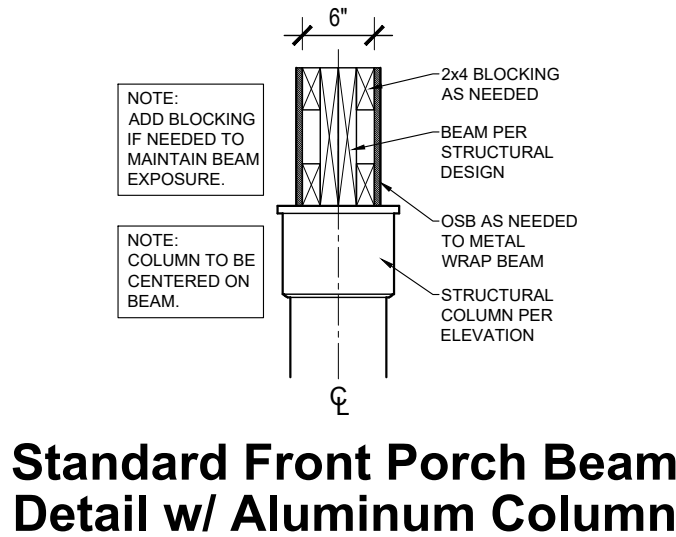
Features:

Rev By: cja
am SH EB

Drawn By: ATW

Date: 12/2/2024

A1



SEE SHEET AA-1 FOR STONE & BRICK WATER TABLE OPTIONS

9FT CEILING OPTION NOTES:

- Fascia heights from 1st Flr of main house increase 12in. Fascia heights from 2nd Flr of main house remain the same.
- Fascia/beam/column heights at Front and Rear Porches remain the same (regardless of fascia @ main house.)
- Roof pitch at porch may change. Follow notes at elevations.
- Window heights and sizes remain the same.

LISTS OF DRAWINGS

A1 Base Front Elevation

A1b Front w/ 3rd Car Garage Opt

AA-1 Front w/ Brick/Stone Opt.

A2 Base Side & Rear Elevations

A2b Elevations w/ 3rd Car Garage Opt.

A3 Elevations w/ Covered Porch Opt.

A-R1 Roof Plan

B1 First Floor Plan

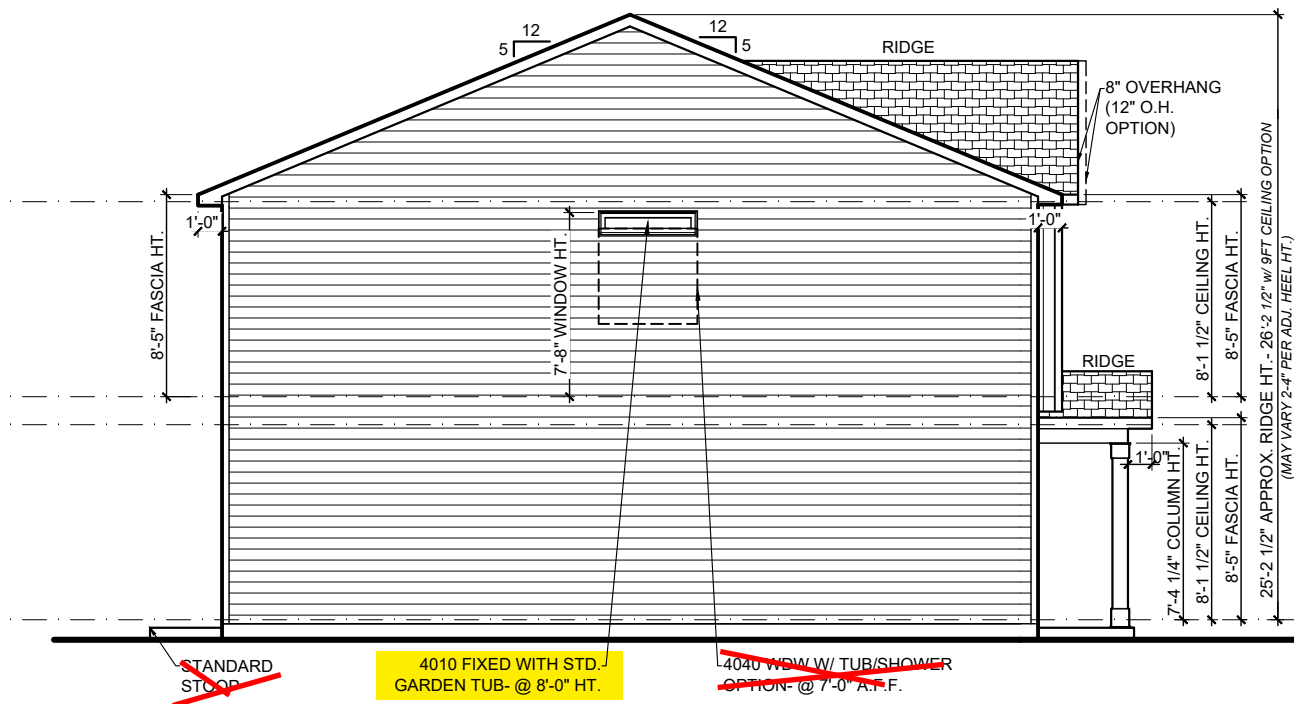
B2 Second Floor Plan

B3 Foundation Information Sheet

B4 3rd Car Garage Option

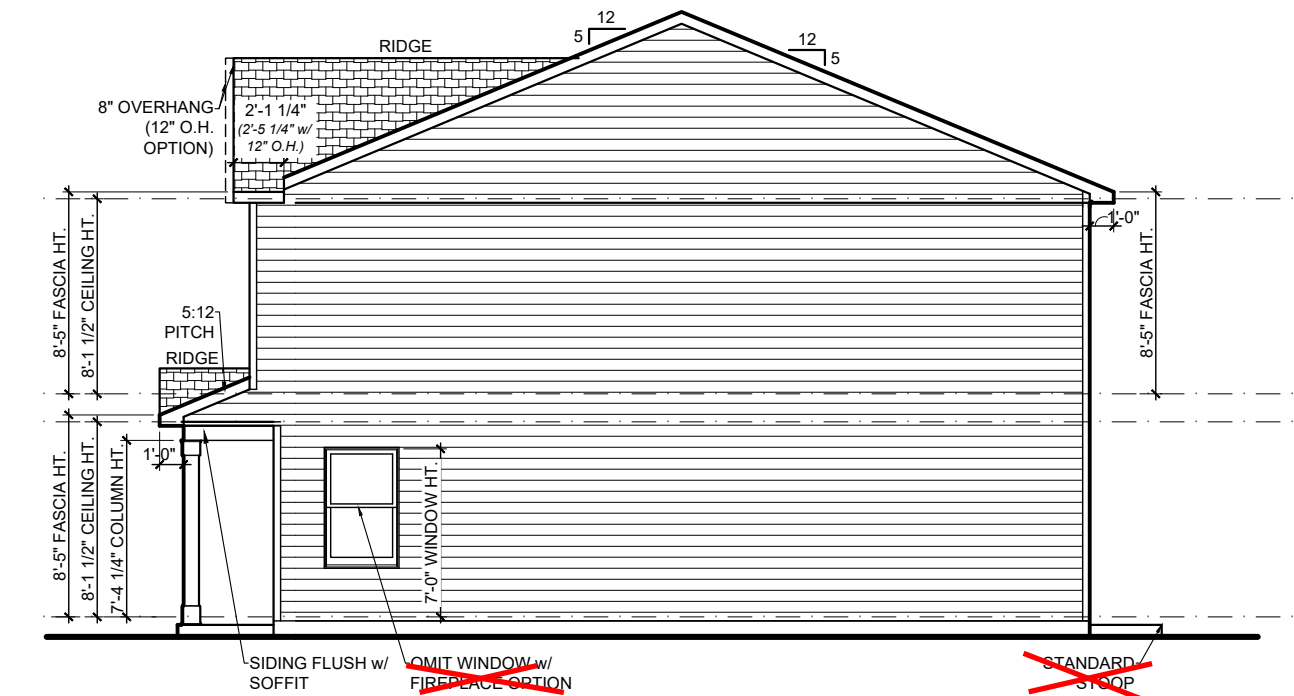
E1 First Floor Electrical

E2 Second Floor Electrical



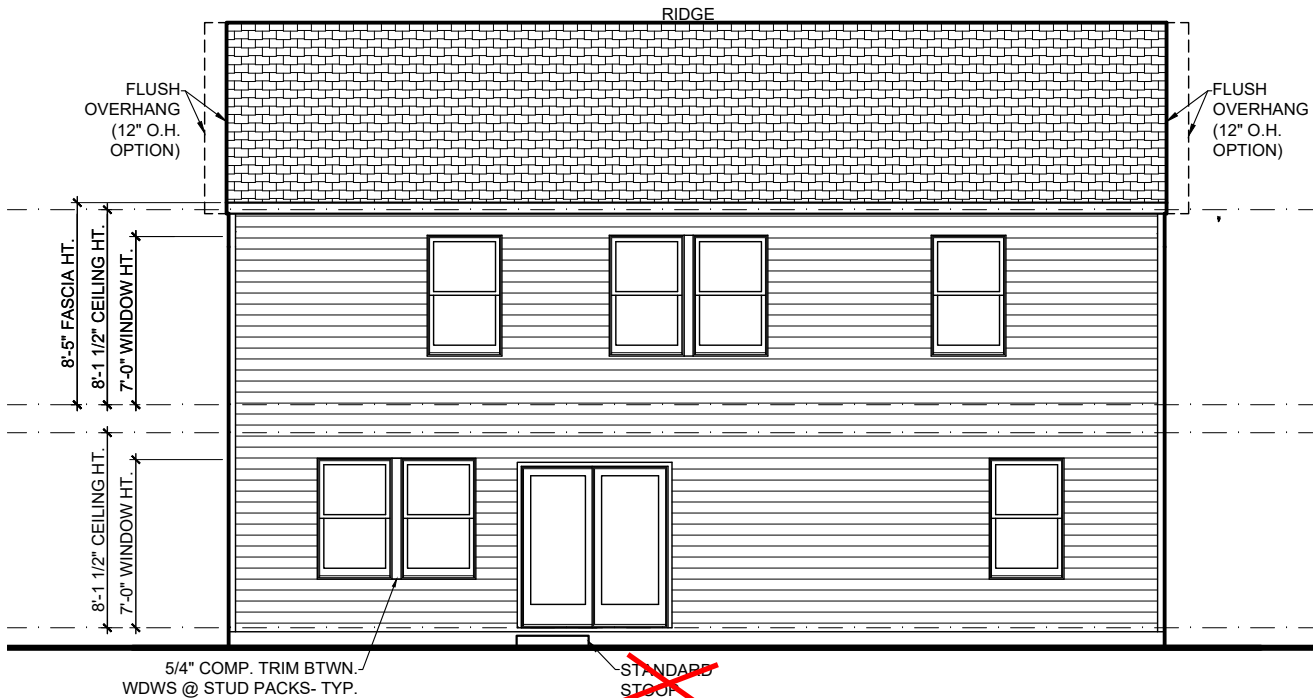
LEFT ELEVATION

1/8" = 1'-0"



RIGHT ELEVATION

1/8" = 1'-0"



REAR ELEVATION

1/8" = 1'-0"

9FT CEILING OPTION NOTES:

1. Fascia heights from 1st Flr of main house increase 12in. Fascia heights from 2nd Flr of main house remain the same.
2. Fascia/beam/column heights at Front and Rear Porches remain the same (regardless of fascia @ main house.)
3. Roof pitch at porch may change. Follow notes at elevations.
4. Window heights and sizes remain the same.



C Square Footages:

1st Floor	935
2nd Floor	1302
Garage	391
Front Porch	83
Covered Porch Option	120
3rd Car Garage Option	220

McDowell C

Genesis Series
v.05.03.00.00

GARAGE LEFT

Features:

Drawn By: ATW

Rev By: cja
am SH EB

Date: 12/2/2024

A2

C Square Footages:

1st Floor	935
2nd Floor	1302
Garage	391
Front Porch	83
Covered Porch Option	120
3rd Car Garage Option	220

McDowell C

Genesis Series

v.05.03.00.00

GARAGE LEFT

Features:	Drawn By: ATW	Rev By: cja am SH EB
	Date: 12/2/2024	

- NOTES:
1. ALL OVERHANGS ARE 1'-0" U.N.O.

2. ROOF PLANS *DO NOT* INCLUDE FULL BRICK OPTIONS.

3. ROOF PLANS ARE NOT INTENDED FOR CONSTRUCTION USE.
(INFORMATIONAL USE ONLY)

4. BE SURE TO CHECK OVERHANG INFORMATION AT PLAN
WHEN CALCULATING SOFFIT INTAKE

Deck

COVERED PORCH OPTION

ROOF INFORMATION SUMMARY

MAIN ROOF-

Base House:	
Attic Square Footage	1345 sf
Flat Soffit	59 lf
Ridge	51 lf

AREA(S) NOT AFFECTING MAIN ROOF-

Front Porch:	
Attic Square Footage	57 sf
Flat Soffit	17 lf
Ridge	2 lf
Roof to Wall Ridge	15

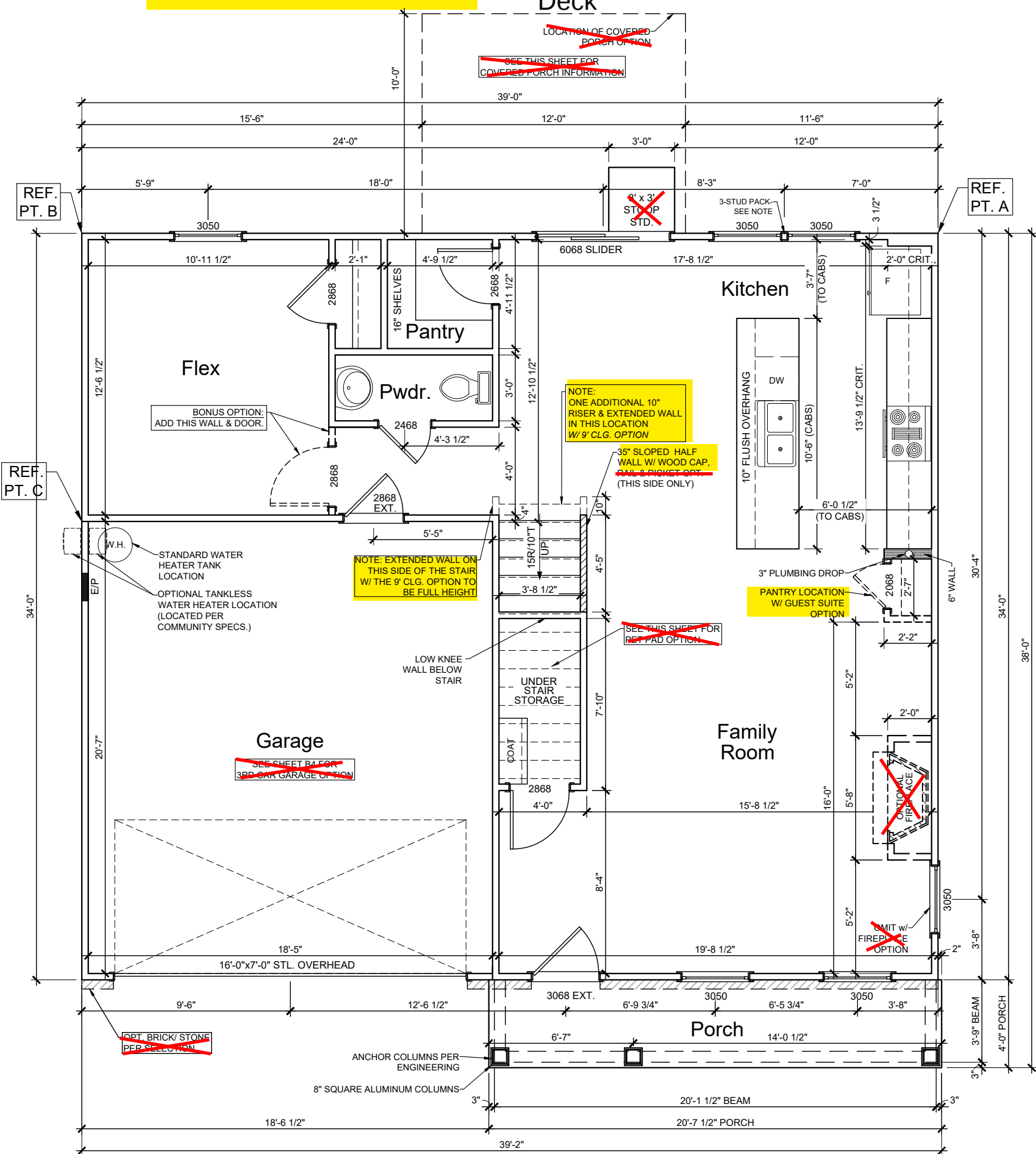
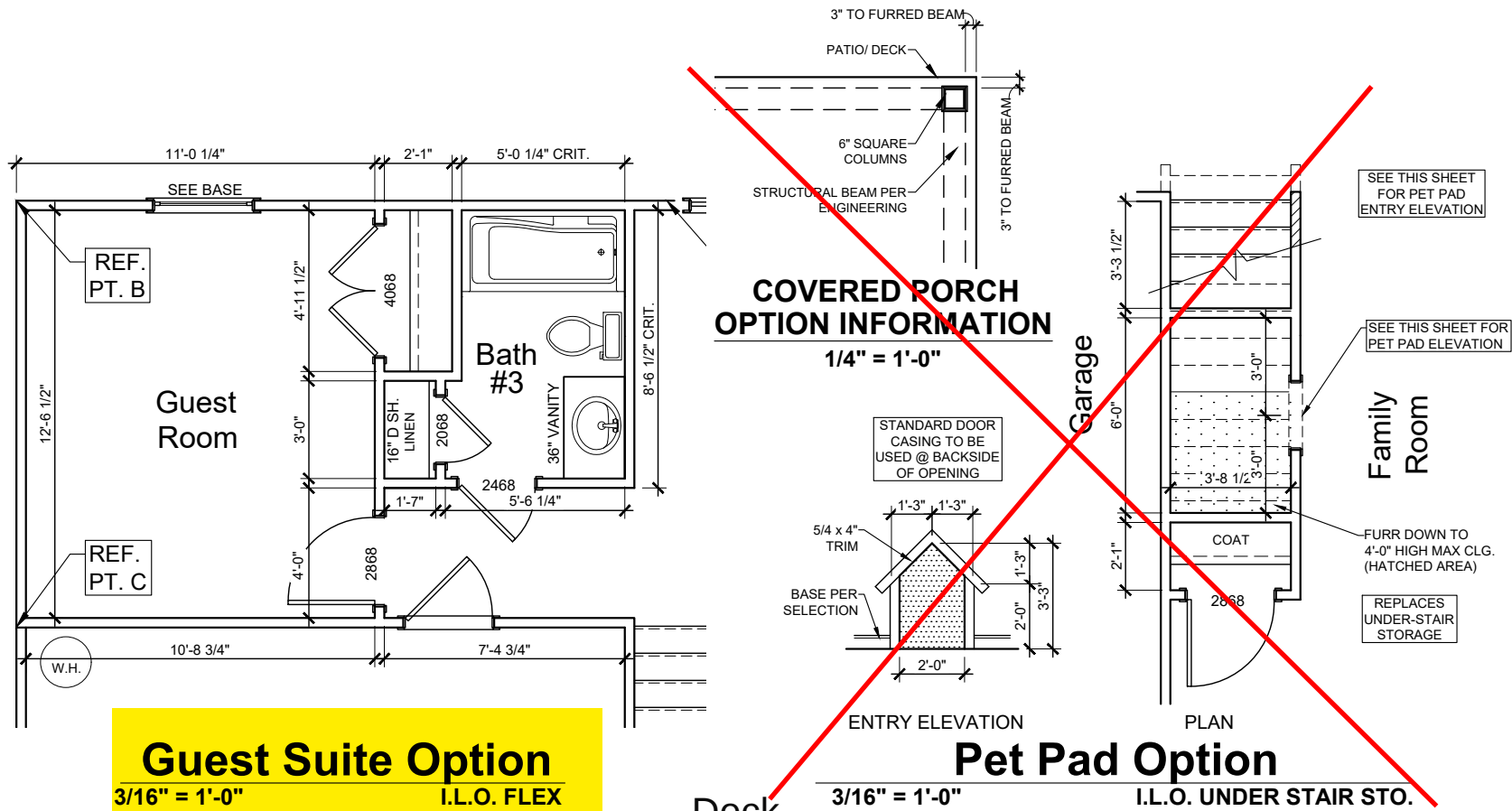
Rear Covered Porch Option:	
Attic Square Footage	116 sf
Flat Soffit	20 lf
Ridge	9 lf

ROOF PLAN

1/8" = 1'-0"

3-Car Garage Option

1/8" = 1'-0"



NOTES:
1. SEE ENGINEERING FOR FRAMING PLANS.
2. 8'-0" CEILING HEIGHTS @ 1ST FLOOR (9FT CLG. OPT.) U.N.O.
3. 8'-0" CEILING HEIGHTS @ 2ND FLOOR U.N.O.
4. WINDOW HEIGHTS VARY - FOLLOW ELEVATIONS CAREFULLY.
5. ALL ANGLES ARE 45° UNLESS NOTED OTHERWISE.

FIRST FLOOR

3/16" = 1'-0"

3- STUD PACK NOTE:
ALL FRAMING BETWEEN WINDOWS TO BE WRAPPED IN ICE & WATER SHIELD OR OTHER WEATHER RESISTANT BARRIER BEFORE WINDOWS ARE INSTALLED. MAINTAIN DRAINAGE PLAN FROM TOP TO BOTTOM WITH HOUSEWRAP- TYPICAL.

B1

Features:

Drawn By:ATW

Rev By:cja

Date: 12/2/2024

McDowell C

Genesis Series
v.05.03.00.00

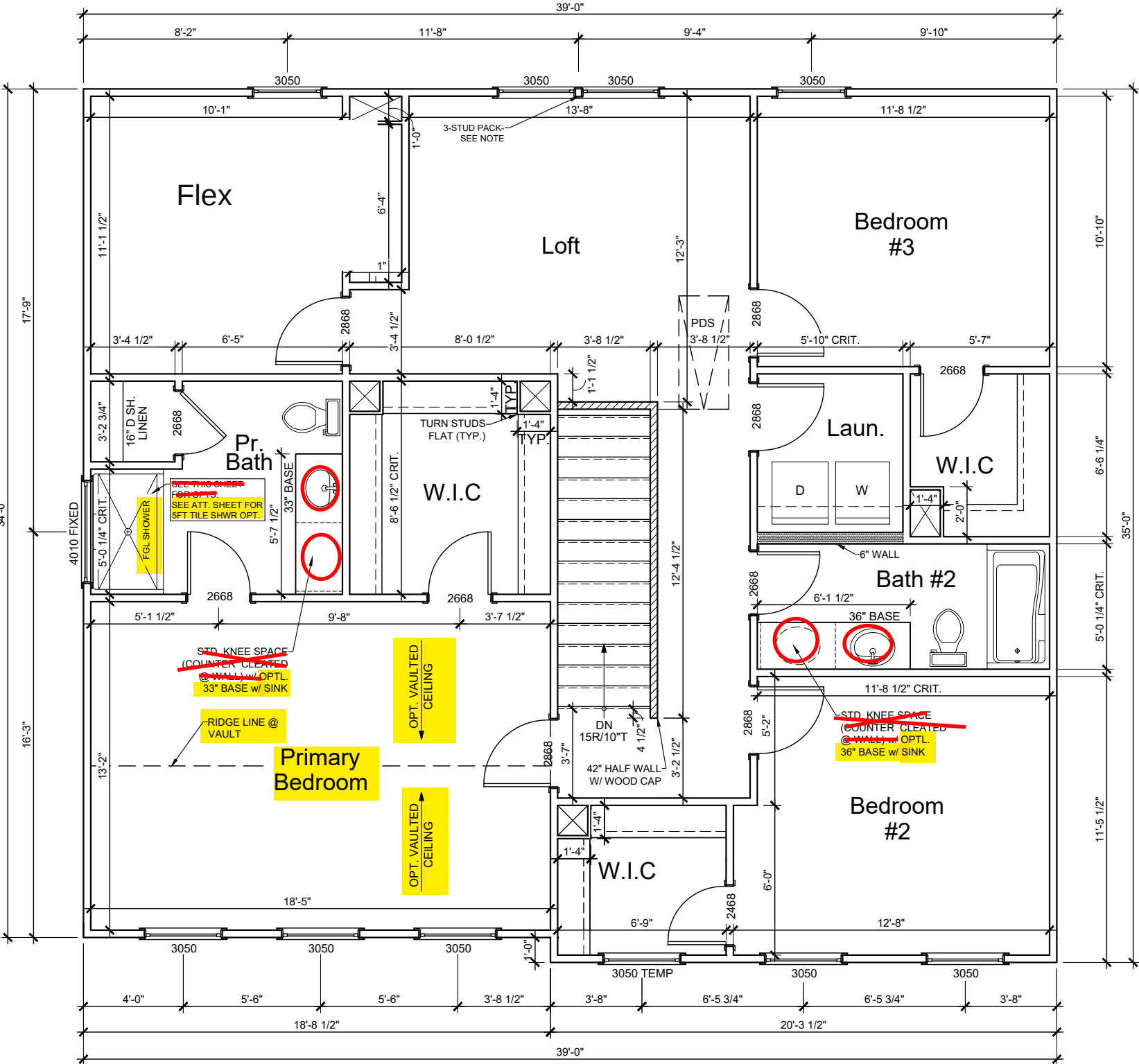
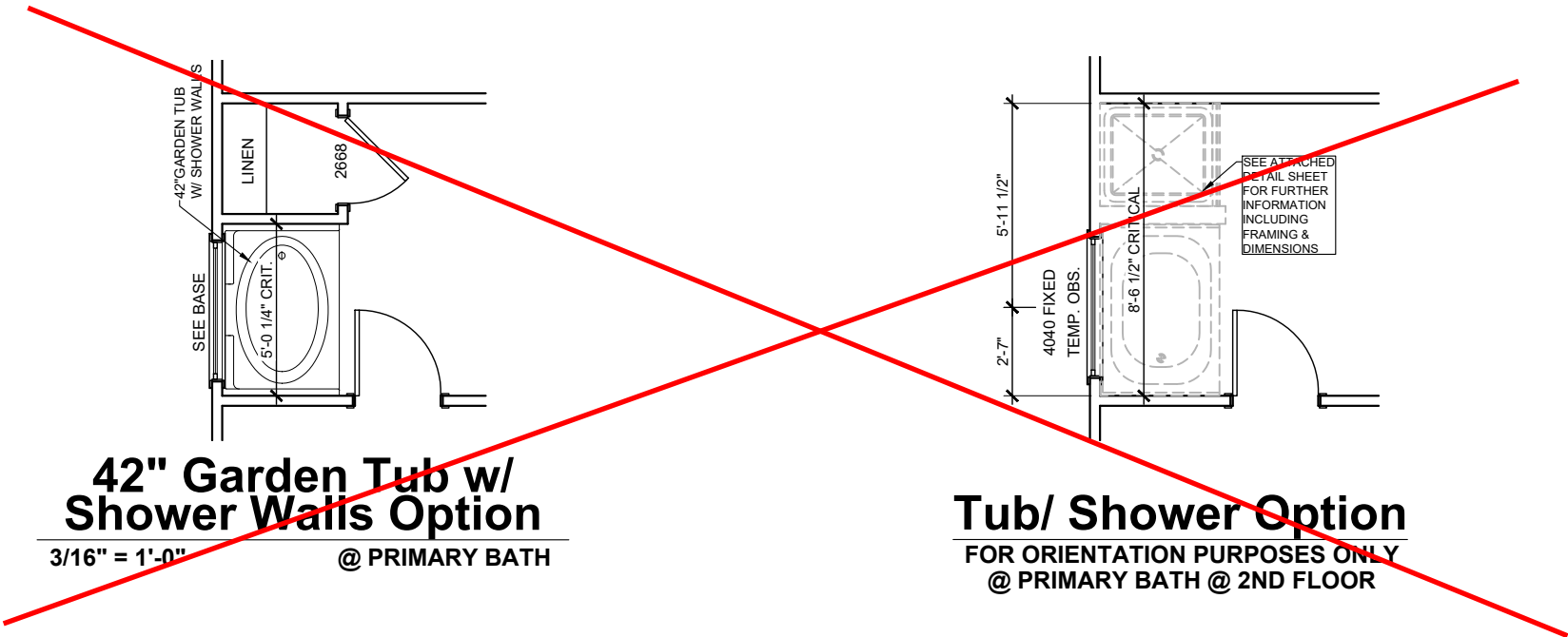
GARAGE LEFT

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2nd Floor.....	1302
Garage.....	391
Front Porch.....	83
Covered Porch Option.....	120
3rd Car Garage Option.....	220

C Square Footages:



3- STUD PACK NOTE:
ALL FRAMING BETWEEN WINDOWS TO BE WRAPPED IN ICE & WATER SHIELD OR OTHER WEATHER RESISTANT BARRIER BEFORE WINDOWS ARE INSTALLED. MAINTAIN DRAINAGE PLAN FROM TOP TO BOTTOM WITH HOUSEWRAP- TYPICAL.



SECOND FLOOR
3/16" = 1'-0"

B2

Features:		
Drawn By:ATW	Rev By:cja	am SH EB
Date: 12/2/2024		

McDowell C
Genesis Series
v.05.03.00.00
GARAGE LEFT

1st Floor.....	935
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Garage.....	391
Front Porch.....	83
Covered Porch Option.....	120
3rd Car Garage Option.....	220

C Square Footages:

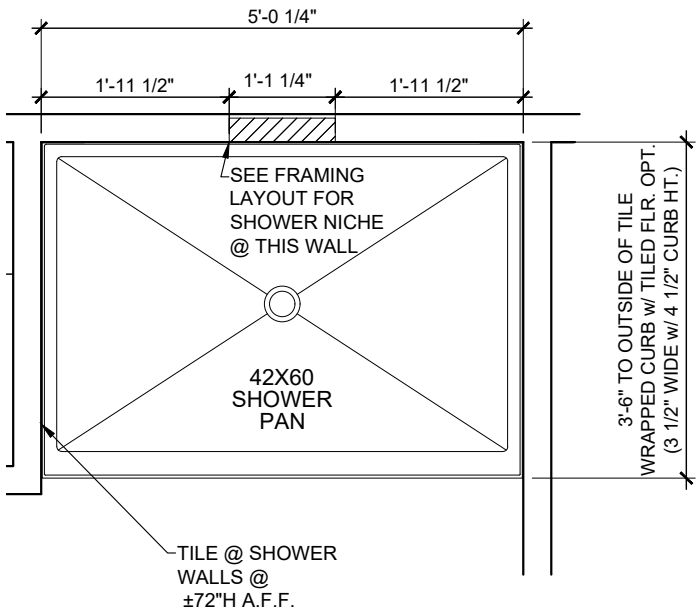




**PRIMARY BATH
5' TILE SHOWER ONLY OPTION
(42x60)**

SCALE: 1/2" = 1'-0"

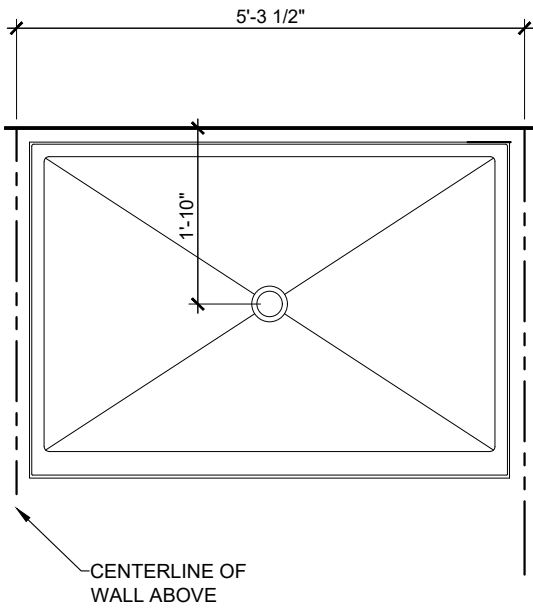
Drawn By: KBM
Date: 8/27/2024
Rev By: AM



**FLOOR
PLAN**

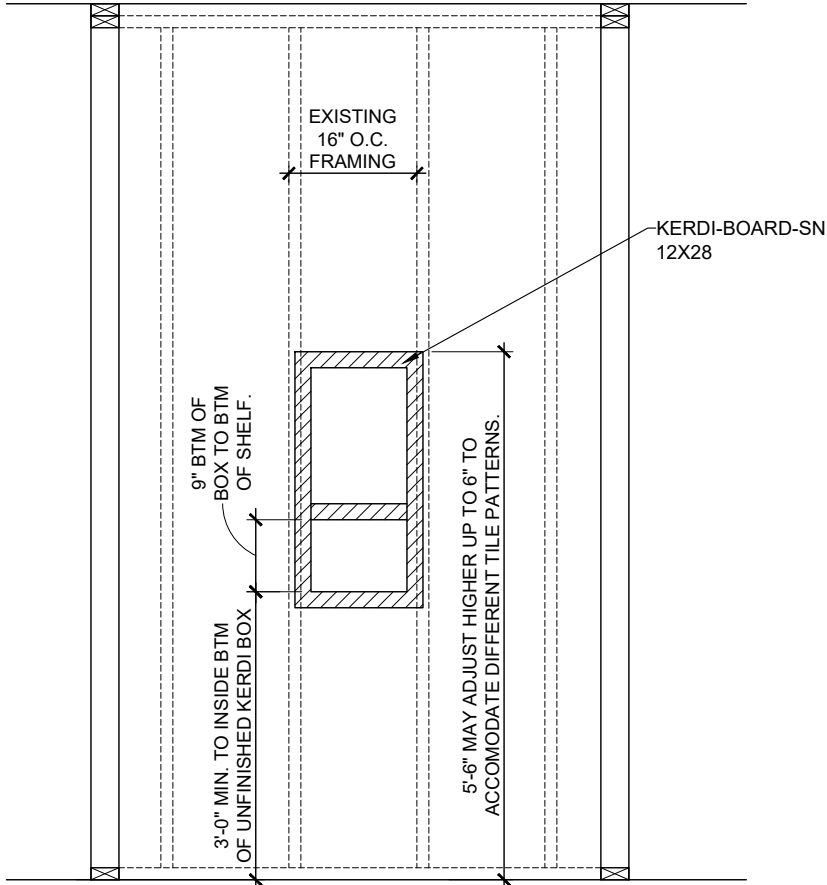
SCALE: 1/2" = 1'-0"

NOTE: THIS DETAIL IS NOT
PLAN SPECIFIC, BUT
SHOULD MATCH THE
SHOWER ORIENTATION ON
EACH PLAN SET.

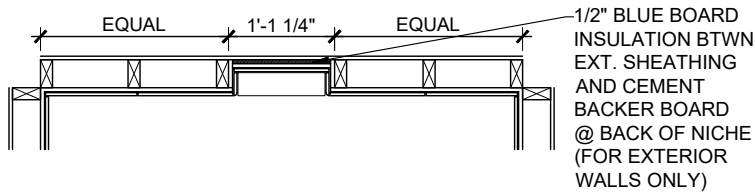


**FOUNDATION
INFORMATION**

SCALE: 1/2" = 1'-0"



ELEVATION VIEW



PLAN VIEW

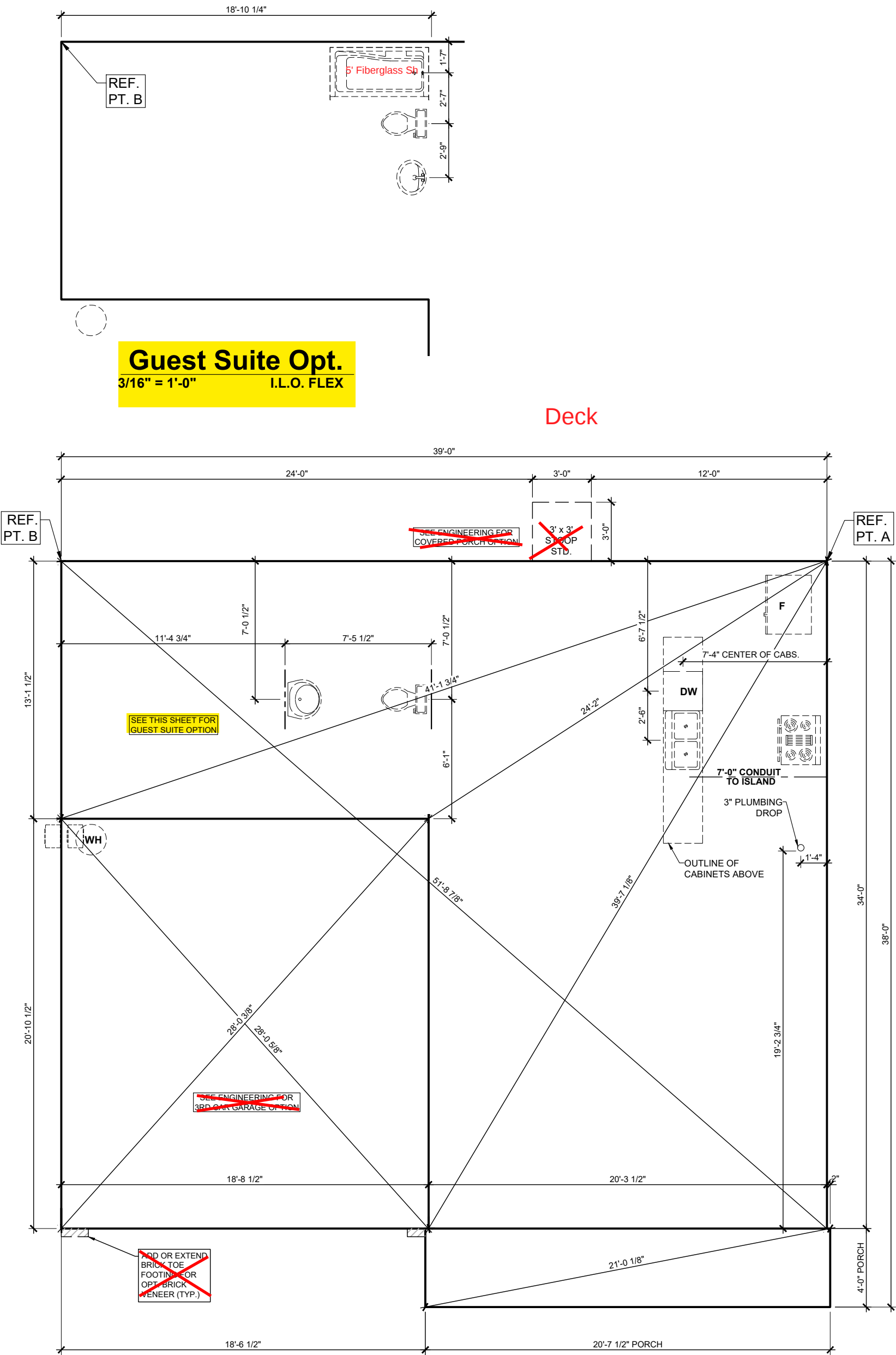
**KERDI SHOWER
NICHE DETAIL**

SCALE: 1/2" = 1'-0"

- NOTES:
1.

SEE ENGINEERING FOR STRUCTURAL INFORMATION
2.

CONTROL JOINTS
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
- JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM).
- JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO.
- CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS.



FOUNDATION INFORMATION SHEET

3/16" = 1'-0"

B3

Features:
FOUNDATION INFO. SHEET

Drawn By:ATW Rev By:cja
am SH EB

Date: 12/2/2024

McDowell C

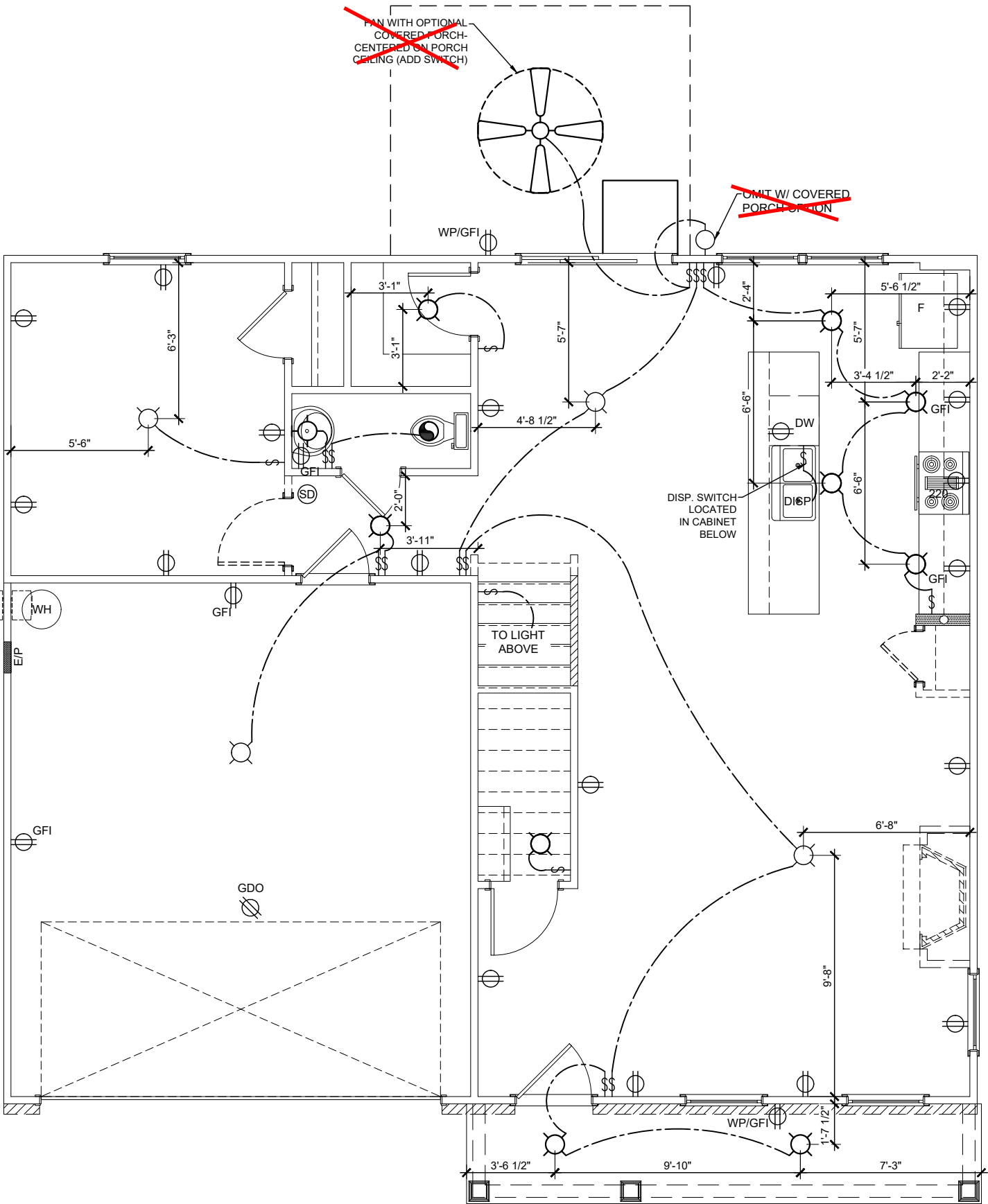
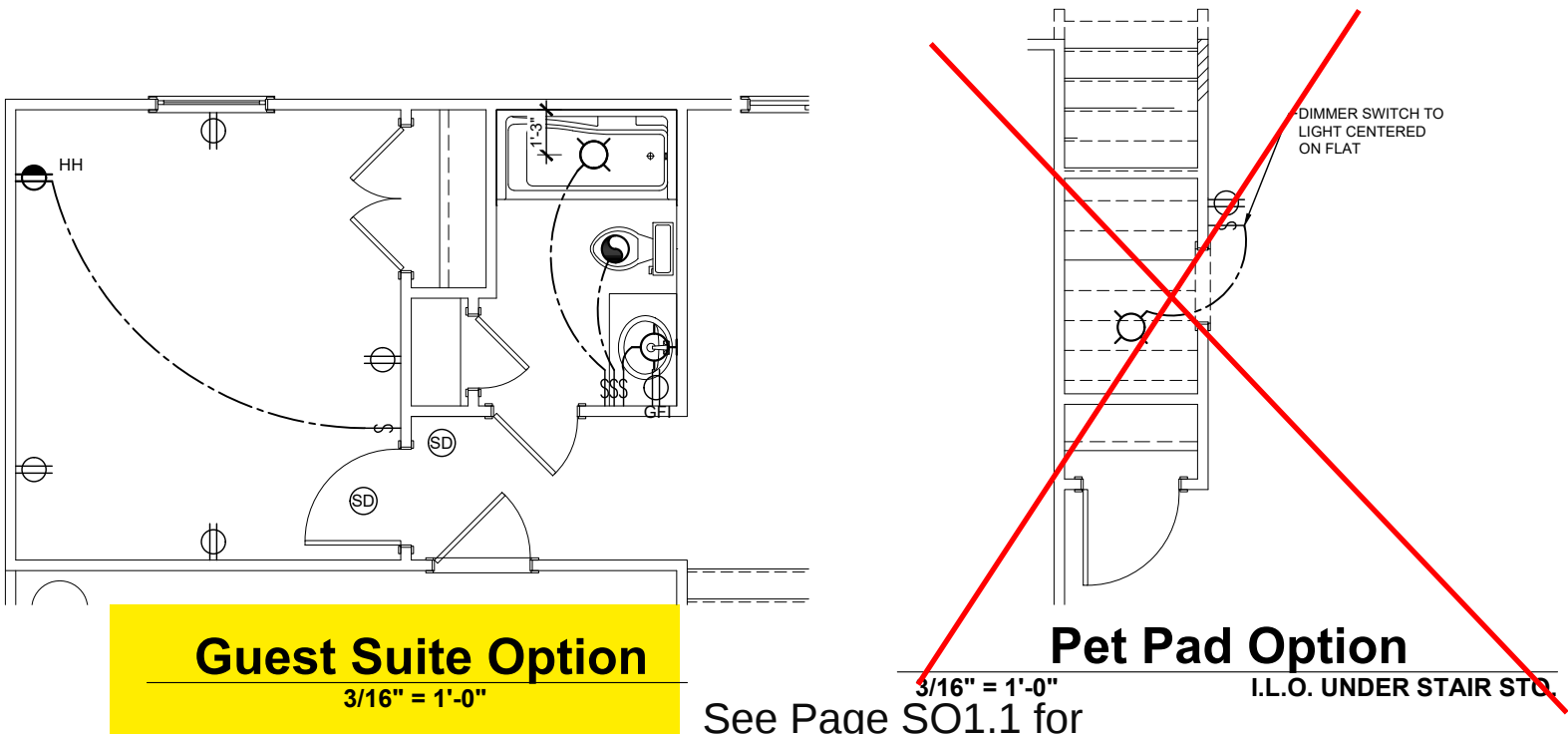
Genesis Series
v.05.03.00.00

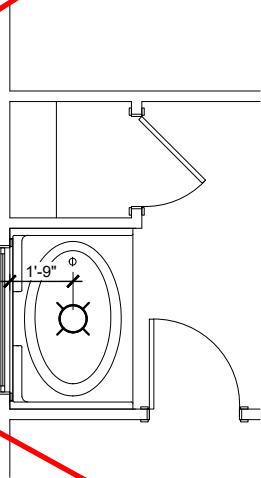
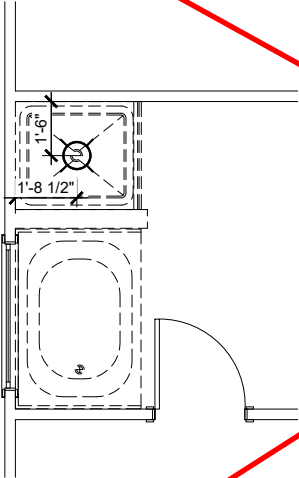
GARAGE LEFT

1st Floor.....	935
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3rd Car Garage Option.....	220

C Square Footages:







Tub/ Shower Option

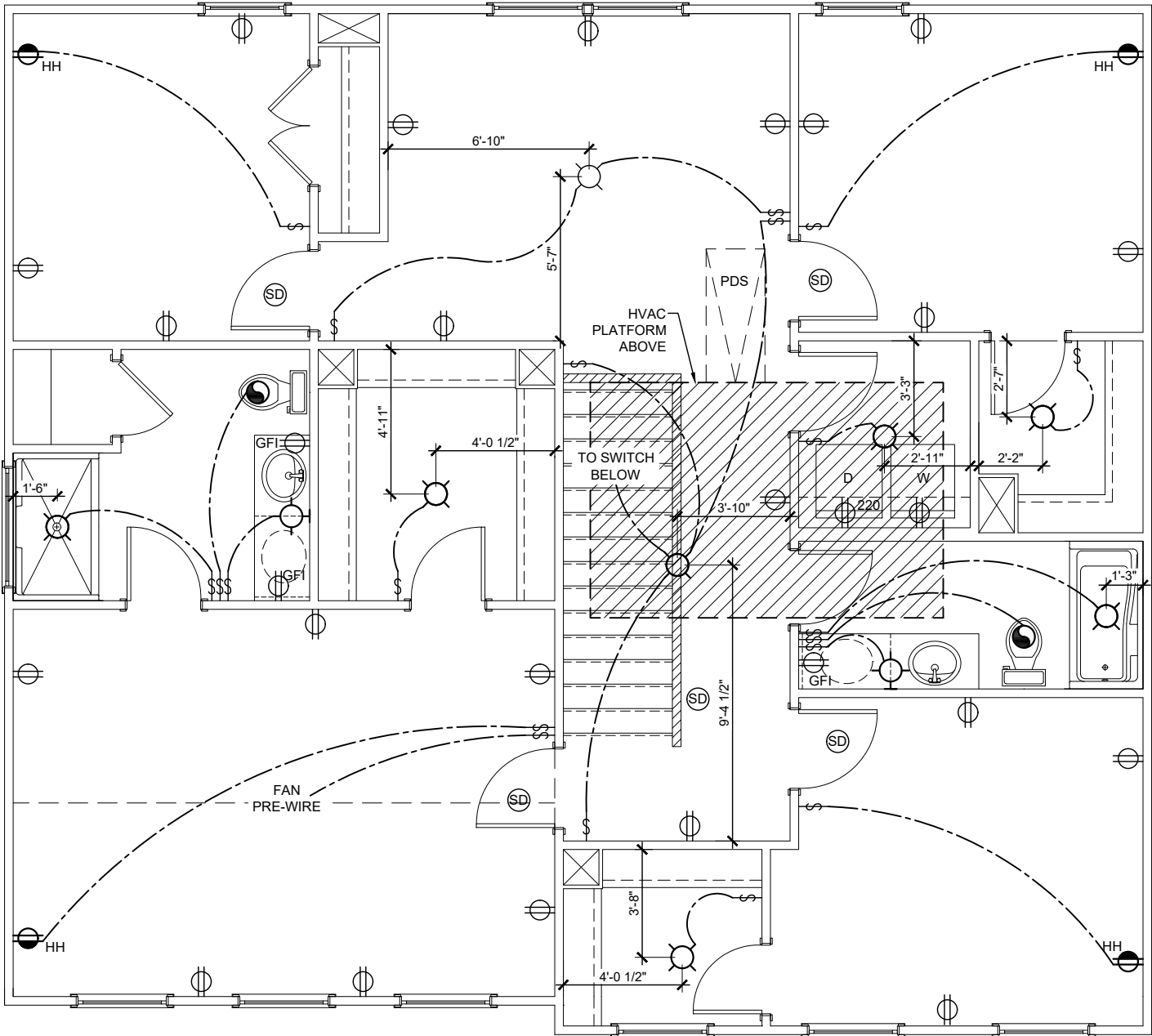
FOR ORIENTATION PURPOSES ONLY

@ PRIMARY BATH @ 2ND FLOOR

**42" Garden Tub w/
Shower Walls Option**

3/16" = 1'-0"

@ PRIMARY BATH



SECOND FLOOR - ELECTRICAL

3/16" = 1'-0"

CONNECTION SPECIFICATIONS (TYP. U.N.O.)

DESCRIPTION OF BLDG. ELEMENT	3"x0.131" NAILS	3"x0.120" NAILS
JOIST TO SOLE PLATE	(3) TOENAILS NAILS @ 6" O.C.	(3) TOENAILS* NAILS @ 4" O.C.
SOLE PL. TO JOIST/TRIM OR BLKG STUD TO PLATE	(4) TOENAILS/ (3)END NAILS	(4) TOENAILS/ (4)END NAILS*
RIM TO TOP PLATE	TOENAILS @ 6" O.C.	TOENAILS @ 4" O.C.*
BLKG. BTWN. JOISTS TO TOP PL.	(3) TOENAILS EA. END	(3) TOENAILS EA. END*
DOUBLE STUD	NAILS @ 16" O.C.	NAILS @ 16" O.C.
DOUBLE TOP PLATE	NAILS @ 12" O.C.	NAILS @ 8" O.C.
DOUBLE TOP PLATE LAP SPLICE	(12) NAILS IN LAPPED AREA (24" MIN.)	(15) NAILS IN LAPPED AREA (24" MIN.)
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(3) NAILS	(3) NAILS
ADJACENT FULL-HEIGHT STUD TO END OF HEADER	(4) NAILS	(4) NAILS
RAFTER/TRUSS TO TOP PLATE	(4) TOENAILS + (1) SIMPSON H2.5T	(4) TOENAILS + (1) SIMPSON H2.5T
GAB. END TRUSS TO DBL. TOP PL.	TOENAILS @ 8" O.C.	TOENAILS @ 6" O.C.
R.T. w/ HEEL HT. 9 1/4" TO 12"	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" O.C.	2x10 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. 12" TO 16"	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 6" O.C.	2x12 BLK EVERY 3RD BAY FASTENED TO DBL. TOP PLATE w/ TOENAILS @ 4" O.C.
R.T. w/ HEEL HT. UP TO 24"	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" O.C.	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" O.C.*
R.T. w/ HEEL HT. 24" TO 48"	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL	LAP WALL SHTG. w/ DBL. TOP PL. & INSTALL ON TRUSS VERT. - FASTEN w/ NAILS @ 6" O.C. PROVIDE 2x BLK @ EA. BAY AT TOP OF HEEL *
WALL TO FOUNDATION	WALL SHTG. LAP w/ SILL PL. & FASTENED PER SHEAR WALL FASTENING SPEC.	

* 2 1/2"x0.113 IS AN ACCEPTABLE ALTERNATIVE TO A 3"x0.120", SAME SPACING OR NUMBER OF NAILS. (ONLY ACCEPTABLE WHERE * ARE SHOWN)

VENEER LINTEL SCHEDULE

SPAN (MAX)	HEIGHT OF VENEER ABOVE LINTEL	STEEL ANGLE SIZE
3'-0"	20 FT. MAX	L3"x3"x 1/4"
	3 FT. MAX	L3"x3"x 1/4"
6'-0"	12 FT. MAX	L4"x3"x 1/4"
	20 FT. MAX	L5"x3 1/2"x 3/8"
8'-0"	3 FT. MAX	L4"x4"x 1/4" *
	12 FT. MAX	L5"x3 1/2"x 3/8" *
	16 FT. MAX	L6"x3 1/2"x 3/8" *
9'-6"	12 FT. MAX	L6"x3 1/2"x 3/8" *
	2 FT. MAX	L7"x4"x 1/2" **
16'-0"	3 FT. MAX	L8"x4"x 1/2" **

ALL LINTELS:
- SHALL SUPPORT 2 3/8" - 3 1/2" VENEER w/ 40 psf MAXIMUM HEIGHT.
> 16' SHALL HAVE 4" MIN. BEARING
> 16' SHALL HAVE 8" MIN. BEARING
> 16' SHALL NOT BE FASTENED BACK TO HEADER.
> 16' SHALL BE FASTENED BACK TO WOOD HEADER IN WALL @ 48" O.C. w/ 1/2" DIA. x 3 1/2" LONG LAG SCREWS IN 2" LONG VERTICALLY SLOTTED HOLES.
- MAX. VENEER HT. APPLIES TO ANY PORTION OF BRICK OVER THE OPENING.
- ALL LINTELS SHALL BE LONG LEG VERTICAL.
- WHEN SUPPORTING VENEER < 3" WIDE THE EXTERIOR TOE OF THE HORIZONTAL LEG MAY BE CUT IN THE FIELD TO BE 3 1/4" WIDE OVER THE BEARING LENGTH ONLY. THIS IS TO ALLOW FOR MORTAR JOINT FINISHING.
- SEE STRUCTURAL PLANS FOR ANY LINTEL CONDITION NOT ENCOMPASSED BY THE ABOVE PARAMETERS. FOR ANY LINTEL FASTENED BACK TO BEAM, FASTENERS SHALL MAINTAIN A 2 1/2" (MINIMUM) CLEAR DISTANCE FROM BOT. OF BEAM.
* FOR QUEEN VENEER USE L4x3x1/4".
** FOR 3 1/2" VENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < 3 1/2" THICK.

MKG STD. - MAY 2016

NON-BEARING HEADER SCHEDULE

SPAN	2x4 NON-BEARING PARTITION WALL	2x6 NON-BEARING PARTITION WALL
UP TO 3'-0"	(1)2x4 FLAT	(1)2x6 FLAT
UP TO 6'-0"	(2)2x4	(3)2x4
UP TO 8'-0"	(2)2x6	(3)2x6
UP TO 12'-0"	(2)2x10	(2)2x10

LEGEND

- INTERIOR BEARING WALL
- BEARING WALL ABOVE (B.J.A.) -AND/OR- SHEAR WALL ABOVE (S.J.A.)
- BEAM / HEADER
- EXTENT OF OVERFRAMING (O.F.)
- EXTENT OF TILE OVER FLOOR
- EXTENT OF BRACING PANELS/SHEARWALL w/ ADD'L CONNECTION REQUIREMENTS
- INDICATES HOLD-DOWN OR STRAP. REFER TO SCHEDULE.
- METAL HANGER
- INDICATES POST ABOVE (P.A.) PROVIDE SOLID BLOCKING UNDER POST OR JAMB ABOVE.

MEANS & METHODS NOTES

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FINISHED AND ALL PLAN, DETAIL, AND NOTE SPECIFICATIONS HAVE BEEN COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, AND TIE-DOWNS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES AND SYSTEMS DURING COURSE OF DEMOLITION AND CONSTRUCTION OF THE PROJECT.

STRUCTURAL DESIGN AND SPECIFICATIONS ASSUME THAT ALL SUPPORTING AND NON-SUPPORTING ELEMENTS IN CONTACT WITH FLOOR FRAMING ARE LEVEL, INCLUDING, BUT NOT LIMITED TO; FOUNDATIONS, SLABS ON GRADE, BEAMS, WALLS, AND NON-BEARING ELEMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LEVELNESS AND MAKE ADJUSTMENTS AS NECESSARY, INCLUDING CONSIDERATION OF THOSE AREAS THAT MAY BE WITHIN CONTRACTUAL, INDUSTRY, OR WARRANTY TOLERANCES.

GENERAL STRUCTURAL NOTES

FOUNDATION

- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE RESIDENTIAL CODE.
- FOOTING DESIGN - 2,000 PSF ALLOWABLE SOIL BEARING PRESSURE IS ASSUMED. BUILDER/CONTRACTOR MUST VERIFY.
- FASTEN 2x4/6 SILL PLATES TO CONC. FND WITH A MINIMUM OF 2 ANCHORS PER PLATE, 12" MAX. FROM PLATE ENDS - UTILIZING:
 - 1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C. w/ 1" MIN. EMBEDMENT OR SIMPSON MASA ANCHORS @ 6'-0" O.C.
 - SIMPSON STRONG-BOLT 2 WEDGE ANCHOR (STB2-50700 - 1/2" @ x 7") MAY BE USED IN PLACE OF ANCHOR BOLTS @ INTERIOR THICKENED SLABS ONLY.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT w/ PERIMETER FOUNDATION SHALL BE PRESERVATIVE TREATED SOUTHERN PINE #2.
- FOUNDATION WALLS & FOOTINGS SHALL BE PLAIN CONCRETE, U.N.O.
- CONCRETE DESIGN BASED ON ACI 318. CONCRETE SHALL ATTAIN THE FOLLOWING MIN. COMPRESSIVE STRENGTHS IN 28 DAYS, U.N.O.:
f'c = FOUNDATION WALLS (SEE FOUNDATION DETAILS)
2500 psi: FOOTINGS & INTERIOR SLABS ON GRADE
3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE
f'y = 60,000 psi
- TYPICAL REINFORCEMENT DETAILS: PROVIDE 3" MIN. CLEAR COVER WHERE CAST AGAINST EARTH, 1 1/2" MIN. CLEAR COVER AGAINST FORMS. INSTALL REBAR 4@ BAR DIAMETERS MIN. (24" FOR #4 BARS) @ BEND BARS AND LAP AT CORNERS. PROVIDE 6" HOOK INTO SUPPORTING FOOTINGS WHEN FOOTINGS INTERSECT.
- ALL CONCRETE EXPOSED TO THE WEATHER SHALL NOT HAVE LESS THAN 5% OR MORE THAN 1% AIR ENTRAINMENT.
- ALL FOOTINGS SHALL BEAR BELOW FROST LINE (TYP.) OR 12" MIN IN REGIONS WHERE CODE FROST DEPTH IS NOT APPLICABLE. CONSULT SOILS REPORT OR BUILDING DEPT. FOR MINIMUM DEPTH BELOW GRADE.
- FOOTINGS AND SLABS ON GRADE SHALL BEAR ON VIRGIN SOIL OR 15% COMPACTED FILL. (U.N.O.)
- PROVIDE CONTROL JOINTS AT ALL INSIDE CORNERS OF SLAB EDGES, AND OTHER LOCATIONS WHERE SLAB CRACKS ARE LIKELY TO DEVELOP.
 - JOINTS SHALL BE LOCATED @ 10'-0" O.C. (RECOMMENDED) OR 15'-0" O.C. (MAXIMUM)
 - JOINT GRID PATTERN SHALL BE AS CLOSE TO SQUARES AS POSSIBLE (1:1 RATIO), WITH A MAXIMUM OF 1:1.5 RATIO
 - CONTROL JOINTS SHALL NOT BE INSTALLED IN STRUCTURAL SLABS
- DIMENSIONS BY OTHERS, BUILDER TO VERIFY.
- BUILDER TO PROVIDE SUBTERRANEAN TERMITE PROTECTION MEETING THE REQUIREMENTS OF R318 OR LOCAL CODE REQUIREMENTS
- CRANLSPACE/BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY EITHER ADEQUATE TEMPORARY BRACING OR INSTALLATION OF FIRST FLOOR DECK.
- CRANLSPACE/BASEMENT WALL DESIGN IS BASED ON BACKFILL SOIL CLASSIFICATIONS OF GM, GP, SM, SP (30 pcf) OR GM, GC, SM, SM-SC, ML (45 pcf). IF SC, ML-CL, OR CL (60 pcf) SOIL IS ENCOUNTERED ON SITE, CONTACT MULHERN & KULP FOR FURTHER EVALUATION OF FOUNDATION DESIGN.
- CMU FOUNDATION WALLS SHALL BE ASTM C40 WITH A MIN. COMPRESSIVE STRENGTH OF 1900 psi (F'm=1500 psi). MORTAR SHALL BE ASTM C270, TYPE S. CMU DESIGN PER TMS 402/602.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 9 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL CRANL SPACE PIERS. TOP COURSE OF PIERS SHALL BE SOLID MASONRY OR FILLED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRANL SPACE WALLS, FASTENED PER ANCHORAGE SPECIFICATION NOTED ABOVE.
- BASEMENT FOUNDATION WALL DESIGN BASED ON:
 - 9' OR 10' HEIGHT (SEE PLAN)
 - ACTUAL WALL WIDTHS ASSUMED FOR DESIGN, NOMINAL WIDTHS SHALL NOT BE USED.
- PROVIDE (2) #5 BARS AROUND ALL SIDES OF OPENINGS IN CONCRETE BSMT. FND. WALL WITH 2" CLEAR. REINFORCEMENT SHALL EXTEND 12" PAST CORNER OF OPENING IN ALL DIRECTIONS.
 - FOR OPENINGS UP TO 36", PROVIDE MINIMUM 10" CONCRETE DEPTH OVER OPENING OR (3)2x10 w/ (2)2x6 JACK STUDS, U.N.O.
 - LARGER OPENINGS SHALL BE PER PLAN.

MKG - MAY 2017

EXTERIOR & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
115 MPH WIND IN 2018 NC5BC:RC
(115 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER NC5BC R301.2.1.1) EXP. B & SEISMIC CAT. A/B.

THE ENGINEERED DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1609) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NC5BC.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NC5BC:RC SECTION R802.11.1.1. THIS MODEL HAS BEEN DETAILED WHERE REQUIRED & ENGINEERED TO RESIST THE WIND UPLIFT LOAD PATH PER SECTIONS R602.3.5 & R802.11.

EXT. WALL SHEATHING SPECIFICATION

- 7/16" OSB OR 15/32" PLYWOOD: P1
FASTEN SHEATHING w/ 2 3/8"x0.113 NAILS @ 6" O.C. AT EDGES & @ 12" O.C. IN THE PANEL FIELD. (TYP. U.N.O.)
- ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT ALL UNSUPPORTED PANEL EDGES & EDGE FASTENINGS.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.

3" O.C. EDGE NAILING P3

- AT DESIGNATED AREAS - FASTEN PANEL EDGES OF WOOD STRUCTURAL WALL SHEATHING TO FRAMING w/ 2 3/8" x 0.113" NAILS @ 3" O.C. NO STAPLE ALTERNATIVE AVAILABLE AT THIS SPEC. ALL SHEATHING PANELS SHALL BE ORIENTED VERTICALLY (LONG DIRECTION PARALLEL TO STUDS) AND INSTALLED FULL HEIGHT OF SHEAR WALL - OR - 2x HORIZONTAL BLOCKING SHALL BE PROVIDED TO SUPPORT UNSUPPORTED PANEL EDGES AND 3" O.C. EDGE FASTENING.

NOTES

- SEE CONNECTION SPECIFICATIONS CHART FOR STANDARD SHEAR TRANSFER DETAILING. IF ADDITIONAL CAPACITY IS REQUIRED BY DESIGN, IT WILL BE SPECIFICALLY NOTED ON PLAN.
- REFER TO DETAIL SHEET.
- "NUMBERED" DETAILS ARE REFERENCED ON PLAN.
- DESIGN ASSUMES 16" O.C. MAX. STUD SPACING, U.N.O.
- DESIGN ASSUMES ALL INTERIOR SHEAR WALLS AND EXTERIOR WALLS ARE CONTINUOUS SHEATHED ABOVE AND BELOW OPENINGS.
- WHERE PANELS ARE APPLIED TO BOTH FACES OF WALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS.
- ALL STRUCTURAL PANELS ARE TO BE DIRECTLY APPLIED TO STUD FRAMING.
- PRE-MANUFACTURED PANELIZED WALLS: FASTEN TOGETHER END STUDS OF WALL PANELS SHEATHED w/ OSB OR PLYWOOD AS FOLLOWS
P1 SHEAR PANELS - 3" x 0.120" NAILS @ 6" O.C.
P3 SHEAR PANELS - 3" x 0.120" NAILS @ 4" O.C.

INDICATES LOCATION AND EXTENT OF SHEARWALL WHICH REQUIRES SHEATHING AND/ OR FASTENING SPECIFICATIONS BEYOND THAT OF STANDARD CONSTRUCTION

MKG - MAY 2017

GENERAL STRUCTURAL NOTES

FLOOR FRAMING

- TRUSSES SHALL BE DESIGNED BY MANUF. TO MEET OR EXCEED L/480 LIVE LOAD DEFLECTION CRITERIA. (EXCLUDES STONE/MARBLE OR WET BED CONSTRUCTED FLOORS - CONTACT MKK FOR EXCLUDED FLOOR DESIGNS)
- PER THE GUIDELINES OF THE TILE COUNCIL OF NORTH AMERICA (TCNA HANDBOOK), IT SHALL BE THE FLOOR FINISH INSTALLER'S RESPONSIBILITY TO VERIFY THAT THE FINISHES TO BE INSTALLED MATCH THE DESIGN CRITERIA NOTED ABOVE (UNDER "DESIGN LOADS") .
- METAL HANGERS SHALL BE SPECIFIED BY MANUFACTURER, U.N.O.
- FLOOR SHEATHING SHALL BE 23/32" A.P.A. RATED 'STURD-I-FLOOR' 24" O.C., EXPOSURE I (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS w/ GLUE AND:
 - 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 12" O.C. FIELD.
 - 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 8" O.C. FIELD.
 - 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. IN FIELD.
- PROVIDE 1 1/4" RIM BOARD @ ALL DECK LEDGER LOCATIONS. SEE PLANS OR DETAILS FOR LEDGER CONNECTION.

ROOF FRAMING

- ROOF SHEATHING SHALL BE 7/16" A.P.A. RATED SHEATHING 24/16 EXPOSURE I (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS - w/ 2 1/2" x 0.131" NAILS @ 6" O.C. @ PANEL EDGES & @ 6" O.C. FIELD. - w/ 2 3/8" x 0.120" NAILS @ 4" O.C. @ PANEL EDGES & @ 6" O.C. FIELD. - w/ 2 3/8" x 0.113" NAILS @ 3" O.C. @ PANEL EDGES & @ 6" O.C. FIELD.
- WITHIN 48" OF ALL ROOF EDGES, RIDGES, & HIPs FASTEN ROOF SHEATHING FIELDS PER EDGE NAILING SPEC.
- FASTEN EACH ROOF TRUSS TO TOP PLATE w/ SIMPSON H2.5A HURRICANE CLIP (OR APPROVED EQUAL) @ ALL BEARING POINTS. CLIPS MUST BE INSTALLED ON EXTERIOR FACE OF EXTERIOR WALLS OR THE SAME SIDE AS THE SHEAR WALL SHEATHING.
- ALL ROOF GIRDER TRUSSES AND FLUSH BEAMS WITHIN THE ROOF SYSTEM SHALL BE FASTENED TO THE DOUBLE TOP PLATES AND POST SUPPORT w/ (2) SIMPSON H2.5A CLIPS OR APPR. EQUAL (TYP. U.N.O. ON PLANS)
- TRUSS ALL VALLEY SETS. FASTEN TO TRUSS BELOW w/ SIMPSON H2.5A TIES AT EACH END AND AT EACH TRUSS BETWEEN.
- METAL HANGERS SHALL BE SPECIFIED BY THE MANUFACTURER, U.N.O.
- ERECT AND INSTALL ROOF TRUSSES PER MTGA & TPI'S BC01 I "GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
- SUPPORT SHORT SPAN ROOF TRUSSES w/ 2x4 LEDGER FASTENED TO FRAMING w/ (2) 3" x 0.120" NAILS @ 16" O.C. (UP TO 7' SPAN).

MKG - MAY 2017

ADDITIONAL NOTES FOR TRUSS & I-JOIST MANUFACTURER

ROOF TRUSS, FLOOR TRUSS AND ENGINEERED JOISTS SHALL BE DESIGNED TO MEET THE DIFFERENTIAL DEFLECTION CRITERIA BELOW, UNLESS NOTED OTHERWISE ON PLAN.

TRUSSES/JOISTS SHALL BE DESIGNED SO THAT DIFFERENTIAL DEFLECTION BETWEEN ADJACENT PARALLEL TRUSSES/JOISTS OR GIRDER TRUSSES/FLUSH BEAMS DO NOT EXCEED THE FOLLOWING:

- ROOF TRUSSES:
 - 1/4" DEAD LOAD
- FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
 - 1/8" DEAD LOAD
- FLOOR TRUSSES & ATTIC TRUSSES ADJACENT TO FLOOR FRAMING BY OTHERS:
 - LIMIT ABSOLUTE TRUSS DEFLECTION TO 3/16" DEAD LOAD. (NOT DIFFERENTIAL DEFLECTION)

LIST OF ABBREVIATIONS

•B.F.	BALLOON-FRAMED	•HDR	HEADER
•BM.	BEAM	•INT.	INTERIOR
•BOT.	BOTTOM	•J.	JACK STUD
•BRG.	BEARING	•J.T.	JACK TRUSS
•B.J.A.	BEARING WALL ABOVE	•K	KING STUD
•CANT'D	CANTILEVERED	•K	MANUF. MANUFACTURER
•CONC.	CONCRETE	•MAX.	MAXIMUM
•CONT.	CONTINUOUS	•MIN.	MINIMUM
•DBL.	DOUBLE	•N.T.S	NOT TO SCALE
•DIM.	DIMENSION	•OPT.	OPTIONAL
•D.J.	DECK JOISTS	•P.A.	POST ABOVE
•EA.	EACH	•P.T.	PRESSURE TREATED
•EQ.	EQUAL	•PKT	POCKET
•EXT.	EXTERIOR	•REQ'D	REQUIRED
•E.J.N	EACH WAY	•R.T.	ROOF TRUSS
•F.T.	FLOOR TRUSS	•SCHED.	SCHEDULE
•FND.	FOUNDATION	•SIM.	SIMILAR
•FTG.	FOOTING	•STRUCT.	STRUCTURAL
•G.T.	GIRDER TRUSS	•T.O.F	TOP OF FOOTING
•HD	HOLDOWN	•TYP.	TYPICAL

GENERAL STRUCTURAL NOTES

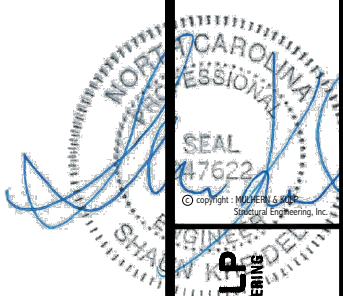
- DESIGN IS BASED ON 2018 NORTH CAROLINA STATE RESIDENTIAL CODE.
- WOOD FRAME ENGINEERING IS BASED ON NDS, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" - LATEST EDITION.
- MODEL IS CONSIDERED AS "FULLY ENCLOSED". OPENING PROTECTION PER BUILDER (MINIMUM STRUCTURAL PANELS PER CODE)
- DESIGN LOADS:
 - ROOF: LIVE = 20 PSF, DEAD = 17 PSF
ATTIC = 20 PSF AT HT. > 42"
LOAD DURATION FACTOR = 1.25
 - FLOOR: LIVE = 40 PSF (30 PSF AT SLEEPING AREAS)
DEAD = 15 PSF (10 PSF T.G., 5 PSF B.G.) (TRUSSES) = 10 PSF (1-JOISTS/SAWN)
(ADD'L 10 PSF AT TILE)
 - WIND: S115 MPH, EXPOSURE B
 - SEISMIC: DESIGN CATEGORY A/B

GENERAL FRAMING

- ALL TYP. NAIL FASTENER REQUIREMENTS ARE NOTED IN STANDARD CONNECTIONS TABLE (IRC TABLE R602.3(1)) OR ON PLANS. ALL NAILS SPECIFIED ARE MIN DIAMETER AND LENGTH REQUIRED FOR CONNECTION. ALL HANGER NAILS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS FOR MAX CHARTED CAPACITY. NOTE: HANGERS USE COMMON NAIL DIAMETERS NOT TYPICAL FRAMING GUN NAILS.
- EXT. & INT. BRG./SHEAR WALLS SHALL BE 2x4 OR 2x6 (AS SHOWN ON PLANS) @ 16" O.C. SPP/SP STUD GRADE LUMBER, OR BETTER, U.N.O..
 - WALLS OVER 12" TALL SHALL BE PER PLAN.
- ALL INTERIOR BEARING WALLS ARE ASSUMED TO BE SHEATHED w/ GYP WALL BOARD (ONE SIDE MIN.) OR PROVIDE MID HT. BLOCKING.
- ALL HEADERS, BEAMS & OTHER STRUCTURAL MEMBERS SHALL BE SPRUCE-PINE-FIR #2 (SPP) OR SOUTHERN PINE #2 (SP) LUMBER, OR BETTER. SUPPORT ALL HEADERS/ BEAMS w/ (1)2x JACK STUD & (1)2x KING STUD, MINIMUM.
 - THE NUMBER OF STUDS SPECIFIED AT A SUPPORT INDICATES THE NUMBER OF JACK STUDS REQUIRED, U.N.O..
- ALL NON-BEARING INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 2x STUD GRADE MEMBERS SPACED @ 16" O.C. (MAX., U.N.O.)
 - SEE "NON-BEARING HEADER SCHEDULE" HEADER SIZES IN NON-LOAD BEARING WALLS
- ALL FRAMING LUMBER SHALL BE DRIED TO 15% MC (KD-15).
- ENGINEERED LUMBER BEAMS TO MEET OR EXCEED THE FOLLOWING:
 - LVL' - Fb=2600 psi; Fv=285 psi; E=2.0x10⁹ psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
 - LVL' - Fb=2400 psi; Fc=1=2500 psi; E=1.8x10⁹ psi
- FOR 2 & 3 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 3"x0.120" NAILS @ 8" O/C OR 2 ROWS 1/4"x3/8" SIMPSON SDS SCREWS (OR 3/8" TRUSSLOK SCREWS) @ 16" O/C. ALT. FASTENING SPEC FOR 3 PLY BEAMS ONLY: FASTEN PLIES TOGETHER WITH 2 ROWS OF 1/2" DIA. THRU BOLTS @ 16" O.C. USE A MINIMUM OF 4 ROWS (NAILS/SCREWS) OR 3 ROWS (BOLTS) FOR BEAM DEPTHS OF 14" OR GREATER. APPLY NAIL/SCREW FASTENING AT BOTH FACES FOR 3-PLY CONDITION. LOCATE TOP & BOTTOM FASTENERS 2" FROM EDGE. SOLID 3 1/2" OR 5 1/4" BEAMS ARE ACCEPTABLE. USE 2 ROWS OF NAILS FOR 2x6 & 2x8 MEMBERS.
- FOR 4 PLY BEAMS OF EQUAL 1 3/4" MAX. WIDTH, FASTEN PLIES TOGETHER WITH 3 ROWS OF 1/4"x6" SIMPSON SDS SCREWS (OR 6 3/4" TRUSSLOK SCREWS) @ 16" O/C OR 2 ROWS OF 1/2" DIA. THRU BOLTS @ 16" O.C. USE A MINIMUM OF 4 ROWS (SCREWS) OR 3 ROWS (BOLTS) FOR BEAM DEPTHS OF 14" OR GREATER. APPLY SCREW FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSSLOK SCREWS). LOCATE TOP AND BOTTOM FASTENERS 2" FROM EDGE. A SOLID 7" BEAM IS ACCEPTABLE.
- REFER TO IRC FASTENING SCHEDULE TABLE R602.3(1) FOR ALL CONNECTIONS, TYP. U.N.O.
- FASTEN ALL METAL CONNECTORS (I.E. HANGERS, CLIPS, ETC) PER MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM TAIL LOAD VALUE U.N.O.
- PROVIDE SOLID BLOCKING IN FLOOR SYSTEM UNDER ALL POSTS CONTINUOUS TO FND/BEARING. BLOCKING TO MATCH POST ABOVE.
- CORROSION NOTES:
 - BUILDER RESPONSIBLE TO DETERMINE CORROSION-RESISTANCE REQUIREMENTS AND COMPATIBILITY OF HARDWARE, FASTENERS AND CONNECTORS FOR ENVIRONMENTAL EXPOSURE AND IN CONTACT w/ PRESERVATIVE-TREATED WOOD OF ACTUAL FINAL CONDITIONS AND SOURCED MATERIALS. CONTACT LUMBER & HARDWARE SUPPLIERS TO COORD.
- BASEMENT INTERIOR BEARING WALLS & EXTERIOR WALK-OUT BASEMENT WALLS SHALL BE 2x6 @ 16" O.C. SPP OR STP, "STUD" GRADE OR BETTER.
- MKK SHALL NOT BE RESPONSIBLE FOR ANY ISSUES RESULTING FROM OR RELATED TO ANY DELEGATED ENGINEERED COMPONENTS IF THE OWNER DOES NOT SUBMIT THE COMPONENT SHOP DRAWINGS TO MKK FOR A CONFORMANCE REVIEW PRIOR TO FABRICATION, DELIVERY, OR INSTALLATION.

MKG - MAY 2017

seal:



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING
380 Riverside Ave., Building 4 - Asheville, NC 28802
725-648-0001 - mulhern@mulhernkulp.com
NC License # C-3825



M&K project number:

192-17012

project mgr:

SMK

draw by:

MRG

issue date:

03-24-22

REVISIONS:

date:

initial:

ARCH: v.02.01.00.00



GENERAL STRUCTURAL NOTES

McDOWELL

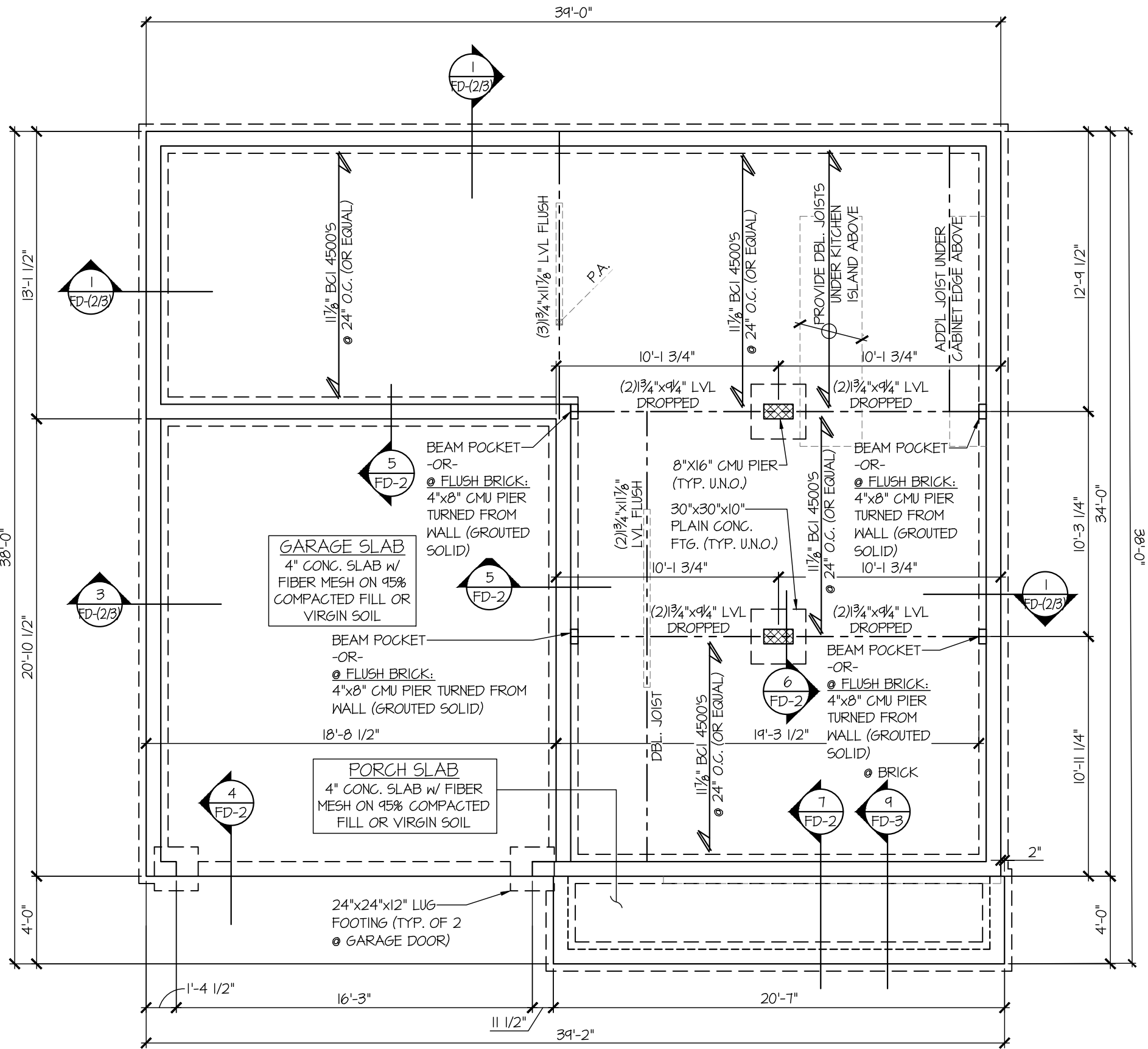
WIND SPEED < 115 MPH NORTH CAROLINA

sheet:

S0.0

DIMENSIONS REFLECT FACE OF WALL STUDS ABOVE OR CENTERLINES OF CRAWLSPACE PIERS (REFER TO DETAILS FOR FOUNDATION WALL PLACEMENT RELATIVE TO WALL FRAMING ABOVE

FOUNDATION HARDWARE SCHEDULE ELEVATION C	
QTY	PRODUCT
15	SIMPSON STRONG-BOLT 2
HARDWARE NOTES: - ALL NAIL HOLES FILLED - ALL COUNTS ESTIMATED - 15 ADDITIONAL STRONG-BOLT 2 ANCHORS INCLUDED FOR MISSED ANCHOR BOLTS	



CRAWLSPACE SLAB FOUNDATION PLAN
SCALE: 3/16"=1'-0"
ELEV. C

REFER TO S-0.0 FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES

SC1.2M

CRAWLSPACE FOUNDATION PLAN
McDOWELL
ELEVATION C
WIND SPEED < 115 MPH NORTH CAROLINA



ARCH: 02/10/2020

date: initial:

REVISIONS:

issue date: 03-24-22

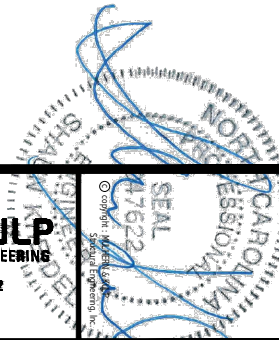
drawn by: MRG

project mgr: SMK

WMA project number: 192-17012

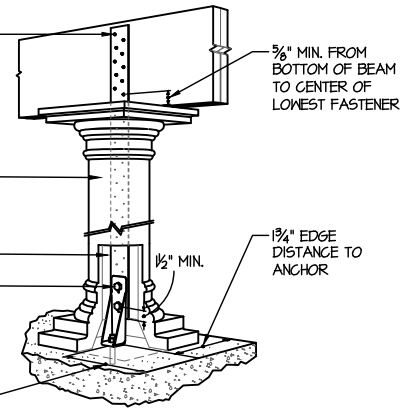


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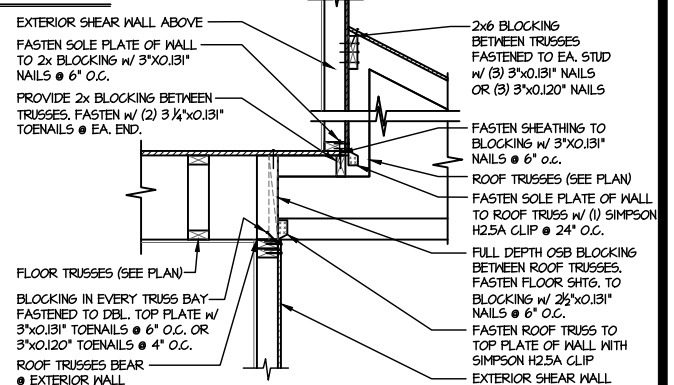
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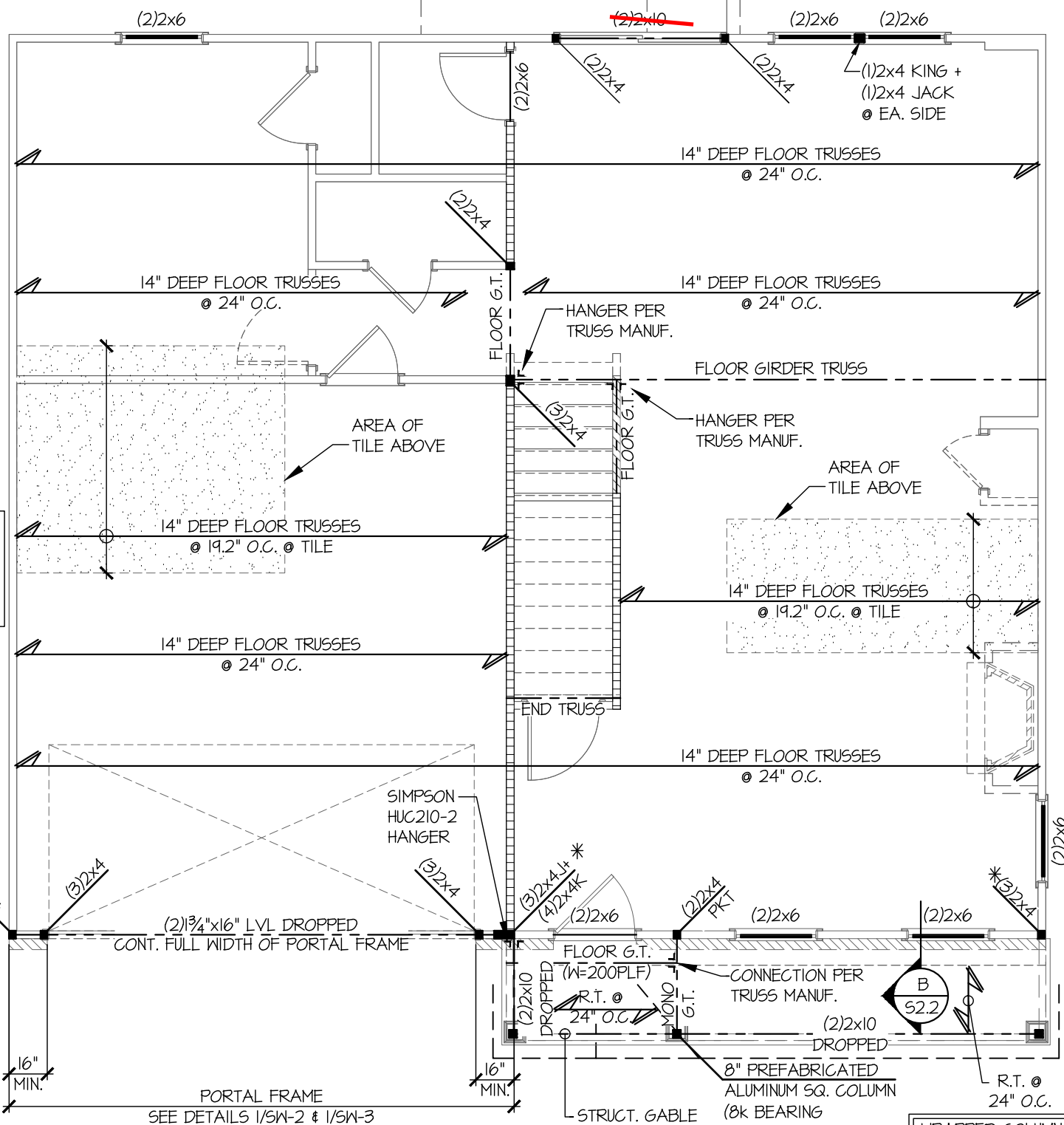
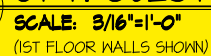


QTY	PRODUCT
20	SIMPSON H2.5A CLIP
3	SIMPSON HD3B HOLDDOWN
3	SIMPSON CMST14 STRAP

- ALL NAIL HOLES FILLED
- ALL COUNTS ESTIMATED
- HARDWARE COUNT DOES NOT INCLUDE TRUSS TO TRUSS CONNECTIONS



B @ EXTERIOR SHEAR WALL
SCALE: 3/8"=1'-0"

AREA OF
-TILE ABOVE

ON PE
NUF.

WRAPPED COLUMN ALTERNATIVE:
4x4 P.T. POST w/ SIMPSON LCE4
CAP + SIMPSON ABW44Z BASE

REFER TO S-O.O FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES

SCALE: 3/16"=1'-0"
(1ST FLOOR WALLS SHOWN)

ELEV. C

2ND FLOOR FRAMING PLAN
McDOWELL
ELEVATION C
WIND SPEED < 115 MPH NORTH CAROLINA



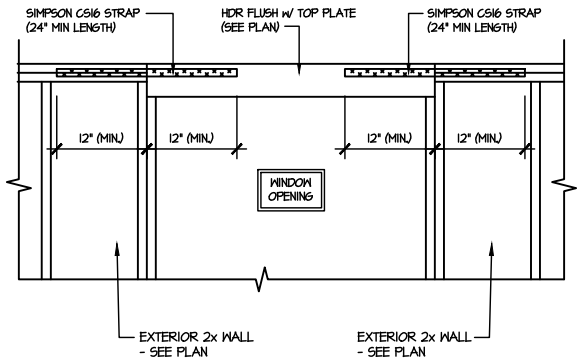
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REVISIONS: date: initial:	



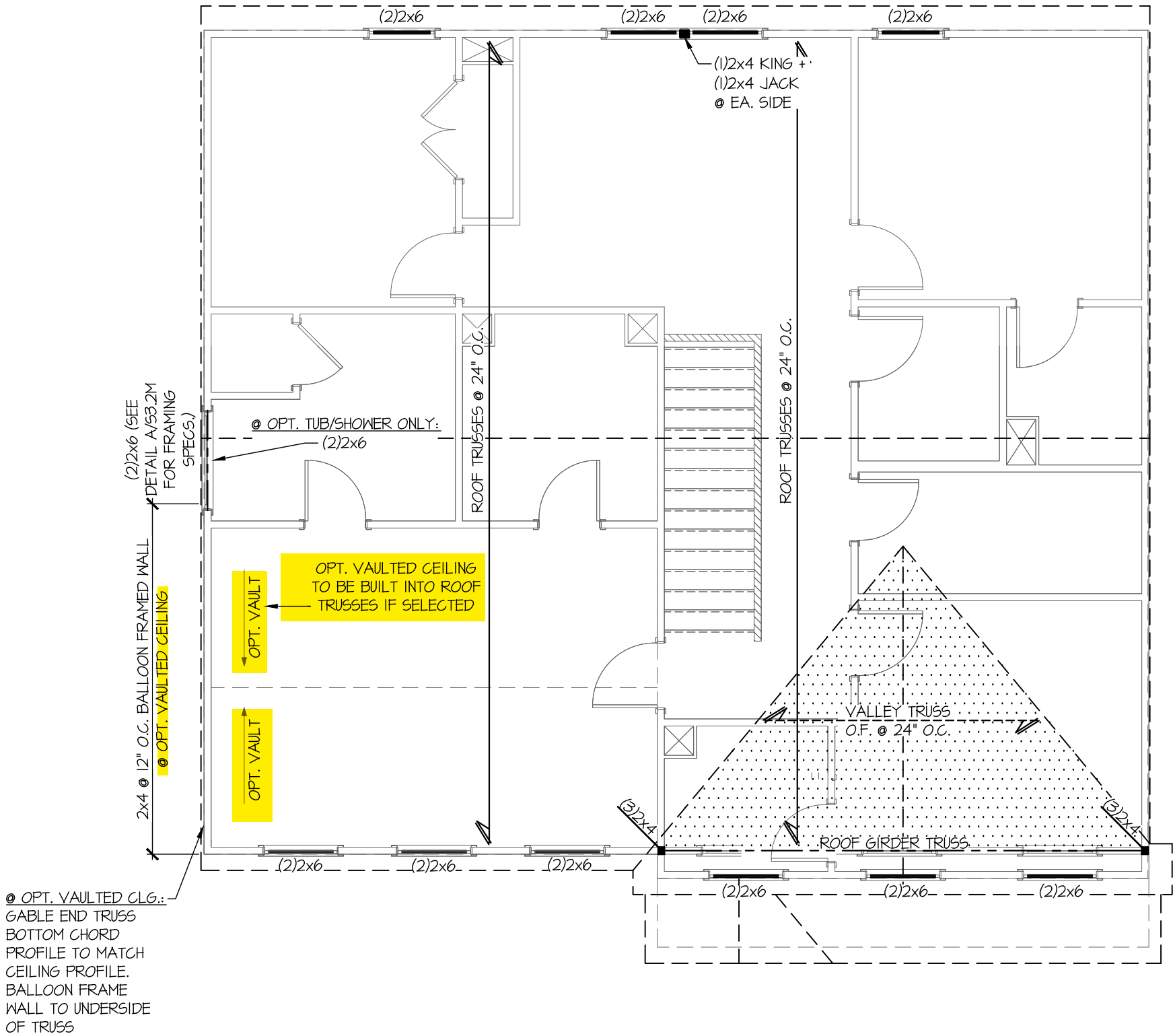
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2/19/24

ROOF HARDWARE SCHEDULE ELEVATION C	
QTY	PRODUCT
86	SIMPSON H2.5A CLIP
2	SIMPSON C616 (24" STRAP)
HARDWARE NOTES: - ALL NAIL HOLES FILLED - ALL COUNTS ESTIMATED - HARDWARE COUNT DOES NOT INCLUDE TRUSS TO TRUSS CONNECTIONS	



**SHEAR TRANSFER DETAIL
AT UPSET WINDOW**
SCALE: 3/8"=1'-0"



OPT. VAULTED CLG.:
GABLE END TRUSS
BOTTOM CHORD
PROFILE TO MATCH
CEILING PROFILE.
BALLOON FRAME
WALL TO UNDERSIDE
OF TRUSS

PLAN DESIGNED FOR
8' PLATE HEIGHT

REFER TO S-O.O FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES



ROOF FRAMING PLAN

SCALE: 3/16"=1'-0"
(2ND FLOOR WALLS SHOWN)

ELEV. C

S3.2M

ROOF FRAMING PLAN
McDOWELL
ELEVATION C
WIND SPEED < 115 MPH NORTH CAROLINA



ARCH: 02.01.00.00

date: 03-24-22

initials: MRG

issue date: 03-24-22

project mgr: SMK

192-17012

M&K project number:



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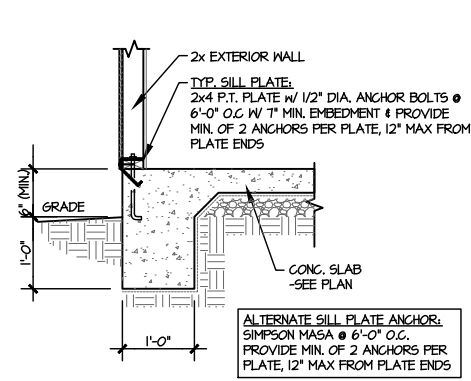
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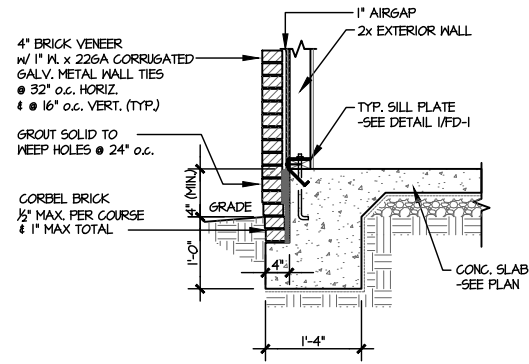
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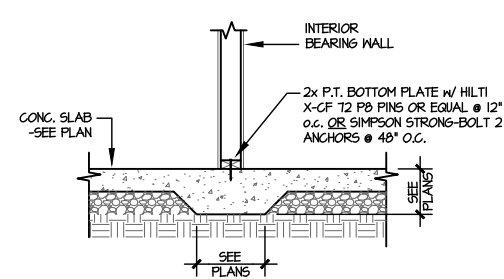
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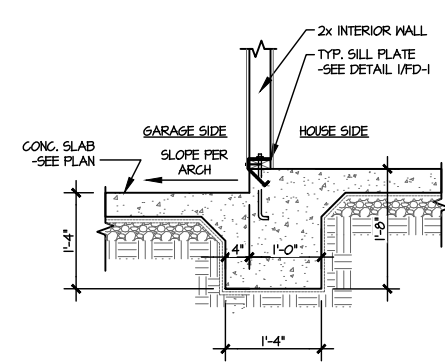
1 TYPICAL TURNDOWN
@ EXT. WALL
SCALE: 3/8"=1'-0"



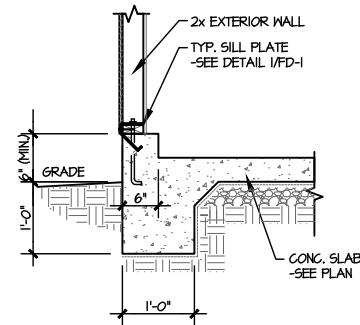
2 TYPICAL TURNDOWN
@ EXT. WALL (BRICK)
SCALE: 3/8"=1'-0"



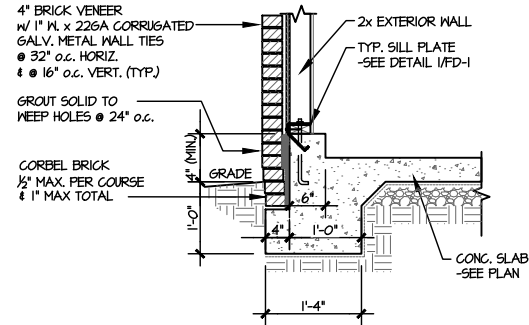
3 TYPICAL THICKENED SLAB @
INTERIOR BEARING WALL
SCALE: 3/8"=1'-0"



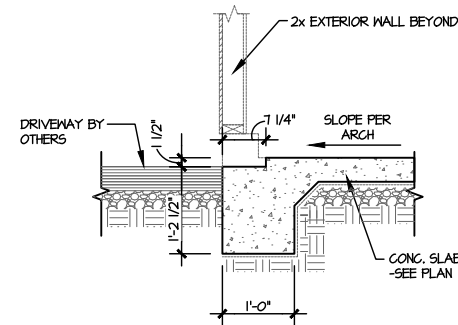
4 TYPICAL INT. FOOTING
BETWEEN HOUSE & GARAGE
SCALE: 3/8"=1'-0"



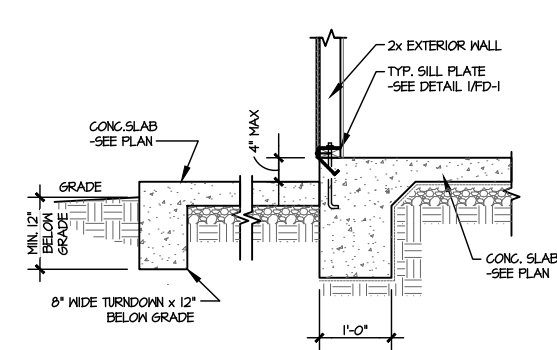
5 TYPICAL TURNDOWN
@ EXT. GARAGE WALL
SCALE: 3/8"=1'-0"



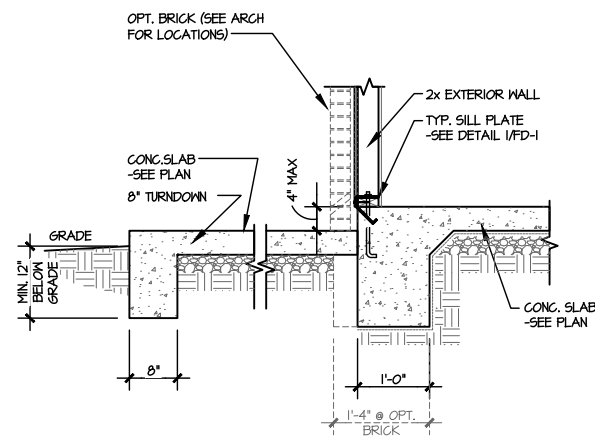
6 TYPICAL TURNDOWN
@ EXT. GARAGE WALL (BRICK)
SCALE: 3/8"=1'-0"



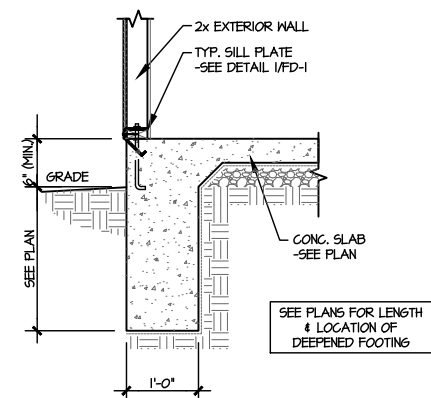
7 GARAGE OPENING
SCALE: 3/8"=1'-0"



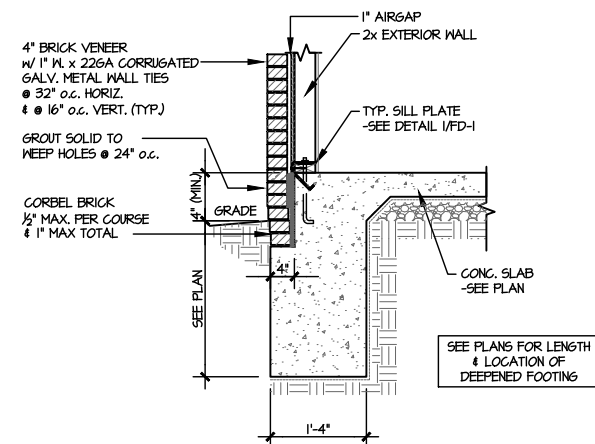
8 TYPICAL TURNDOWN
@ PATIO/PORCH
SCALE: 3/8"=1'-0"



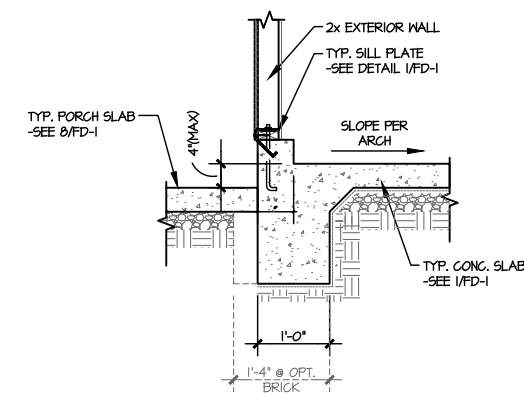
9 TYPICAL TURNDOWN @
PATIO/PORCH (BRICK)
SCALE: 3/8"=1'-0"



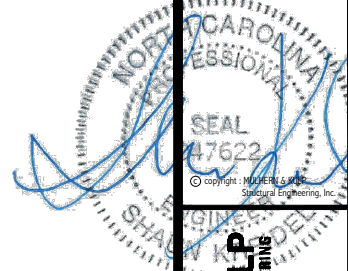
10 TYPICAL TURNDOWN W/
DEEPEMED FTG. @ EXT. WALL
SCALE: 3/8"=1'-0"



11 TYPICAL TURNDOWN
@ EXT. WALL (BRICK)
SCALE: 3/8"=1'-0"



12 TYPICAL TURNDOWN @ COVERED
PORCH/ATTACHED GARAGE
SCALE: 3/8"=1'-0"



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380 Riverside Ave., Building 4 - Asheville, NC 28802
919-255-9455 - mulhern+kulp.com
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drawn by: MRG
issue date: 03-24-22

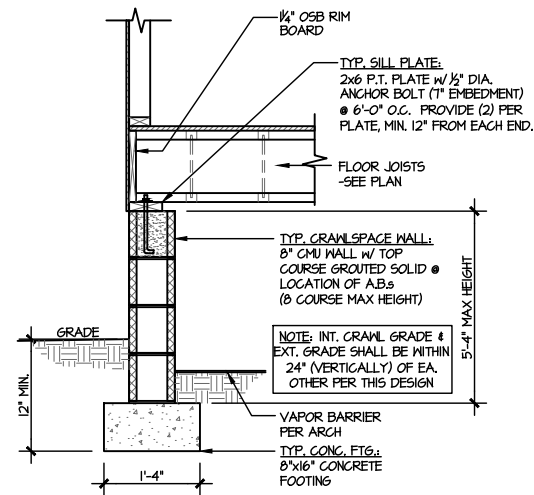
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ARCH: v.02.01.00.00



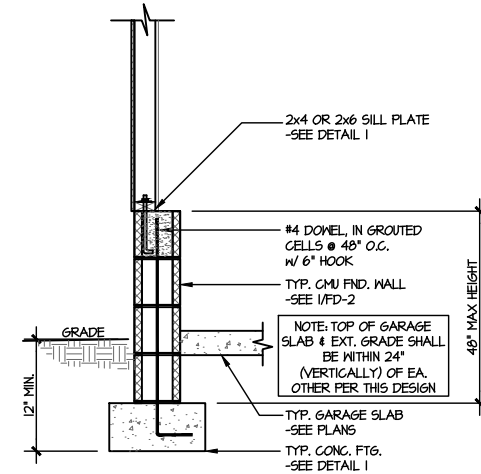
FOUNDATION DETAILS
McDOWELL
WIND SPEED < 115 MPH NORTH CAROLINA

sheet:
FD-1

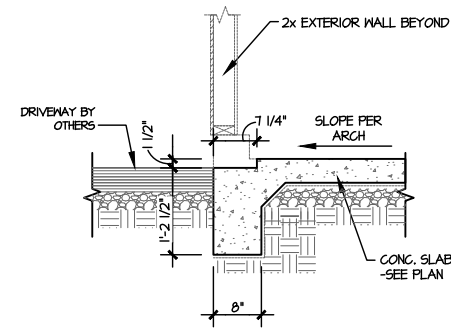


1 TYPICAL CRAWLSPACE FOUNDATION
SCALE: 3/8"=1'-0"

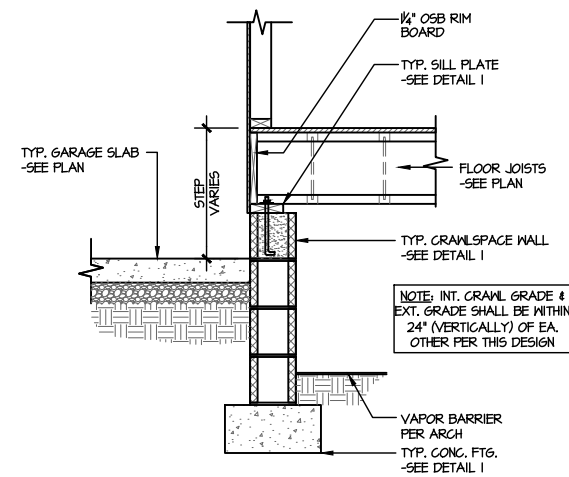
2 NOT USED
SCALE: 3/8"=1'-0"



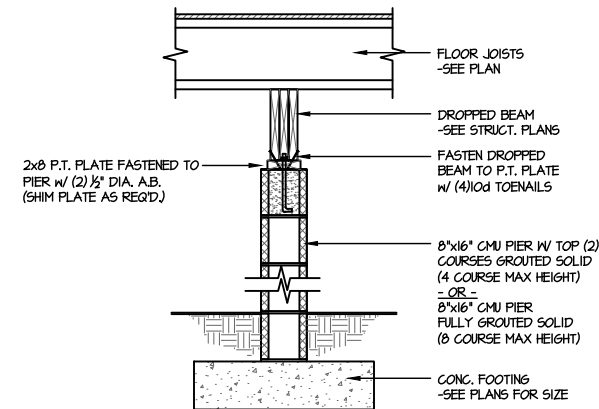
3 TYPICAL PERIMETER FOOTING @
EXTERIOR GARAGE WALL
SCALE: 3/8"=1'-0"



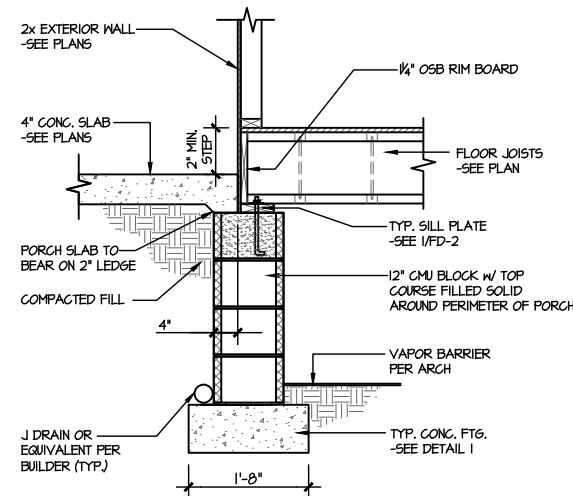
4 TYPICAL TURNDOWN FOOTING
AT EXTERIOR GARAGE APRON
SCALE: 3/8"=1'-0"



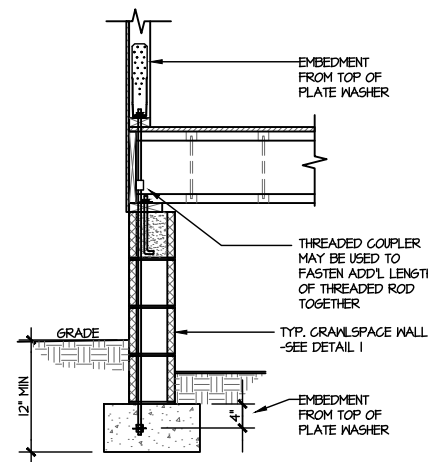
5 TYPICAL CRAWLSPACE FOUNDATION
@ INTERIOR GARAGE WALL
SCALE: 3/8"=1'-0"



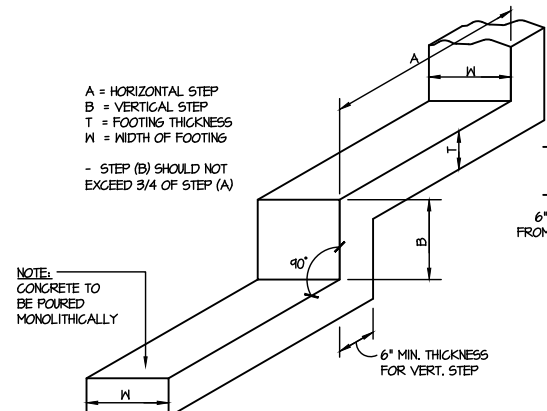
6 TYPICAL CRAWLSPACE
FOUNDATION @ INTERIOR PIER
SCALE: 3/8"=1'-0"



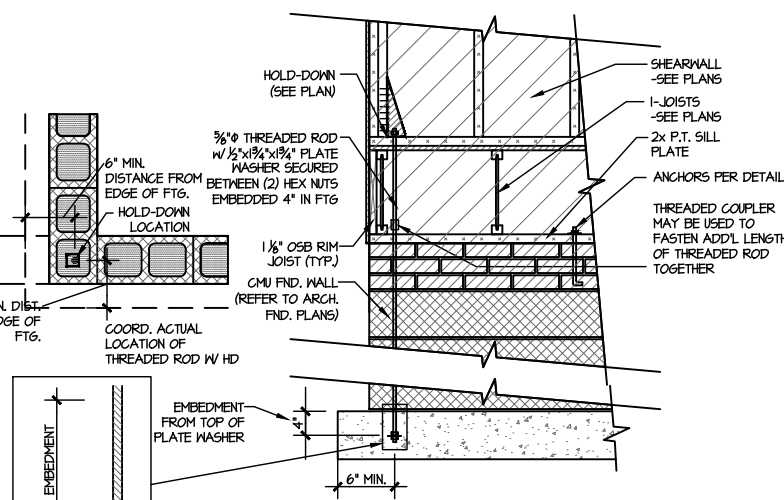
7 TYPICAL CRAWLSPACE FOUNDATION
@ PORCH SLAB
SCALE: 3/8"=1'-0"



A TYPICAL CRAWLSPACE FOUNDATION
HOLD-DOWN INSTALLATION
SCALE: 3/8"=1'-0"



B TYPICAL STEPPED FOOTING DETAIL
SCALE: NTS



C TYPICAL CMU FOUNDATION
HOLD-DOWN INSTALLATION
SCALE: 3/8"=1'-0"

M&K project number:
192-17012

project mgr: SMK
drawn by: MRG
issue date: 03-24-22

REVISIONS:
date: initial:

ARCH: v.02.01.00.00



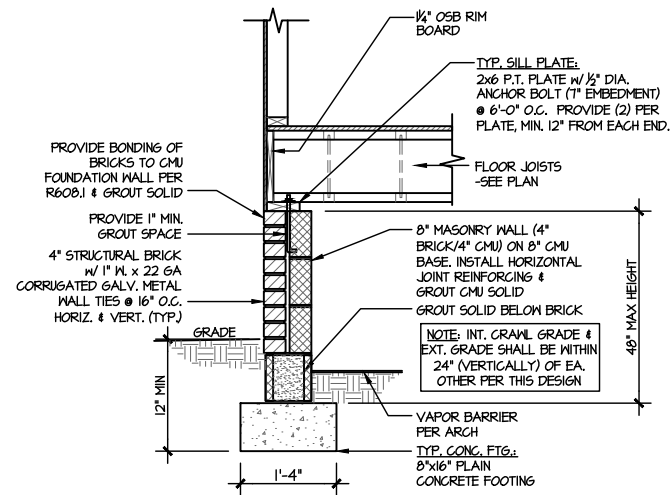
FOUNDATION DETAILS
McDOWELL
WIND SPEED < 115 MPH NORTH CAROLINA

sheet:

FD-2

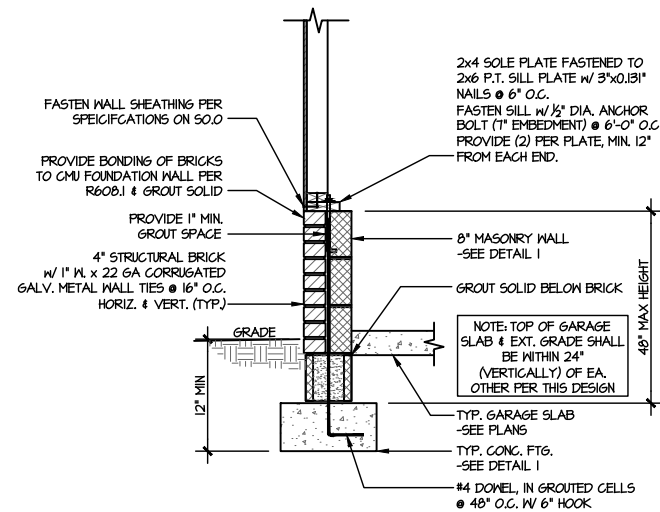


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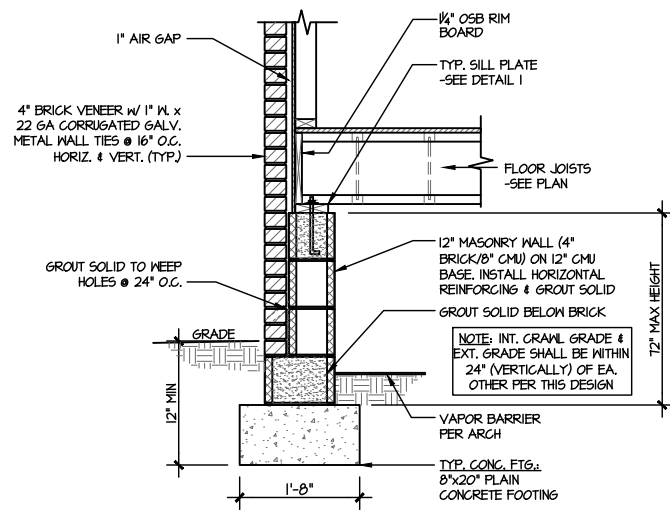
1 TYPICAL CRAWLSPACE FOUNDATION
SCALE: 3/8"=1'-0" W/ BRICK WATERTABLE

2 NOT USED
SCALE: 3/8"=1'-0"



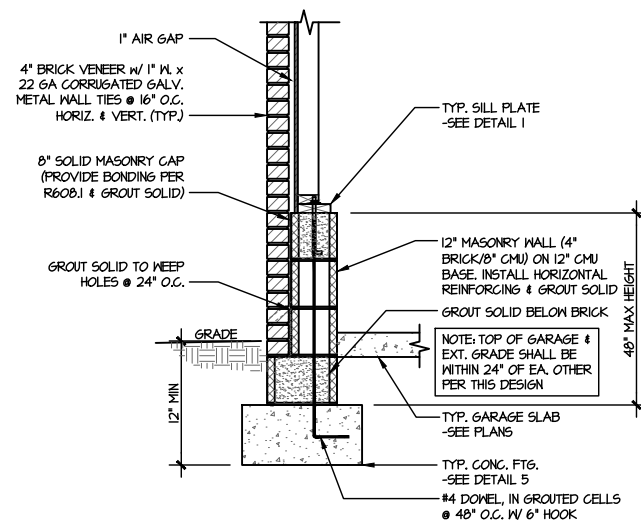
3 TYPICAL CRAWLSPACE FOUNDATION
@ EXTERIOR GARAGE WALL
SCALE: 3/8"=1'-0" W/ BRICK WATERTABLE

4 NOT USED
SCALE: 3/8"=1'-0"



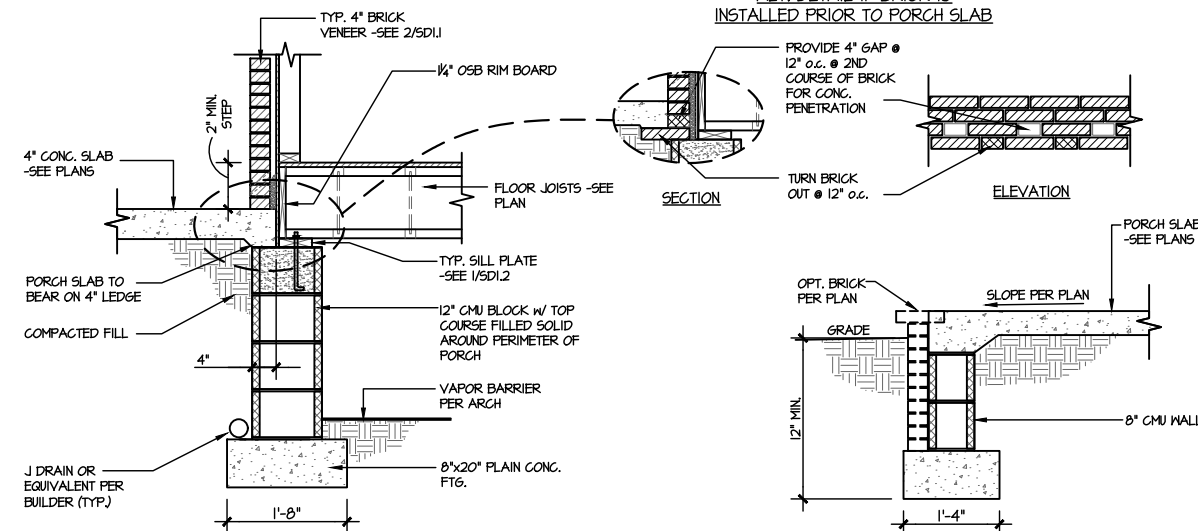
5 TYPICAL CRAWLSPACE FOUNDATION
SCALE: 3/8"=1'-0" W/ FULL BRICK VENEER

6 NOT USED
SCALE: 3/8"=1'-0"

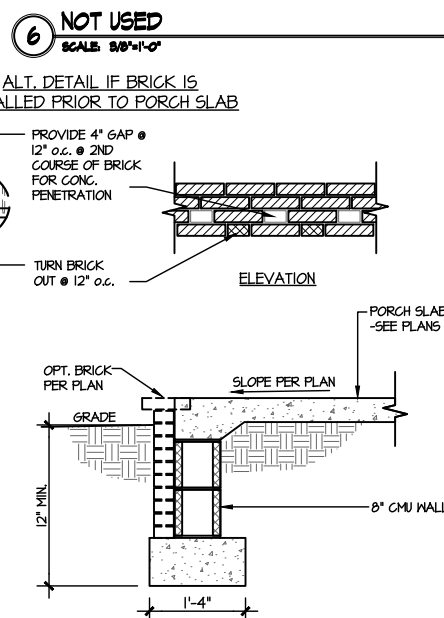


7 TYPICAL CRAWLSPACE FOUNDATION
@ EXTERIOR GARAGE WALL
SCALE: 3/8"=1'-0" W/ FULL BRICK VENEER

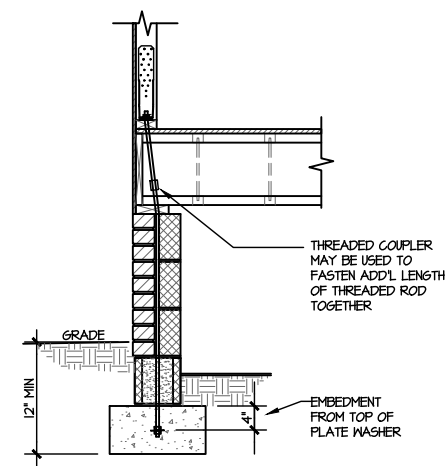
8 NOT USED
SCALE: 3/8"=1'-0"



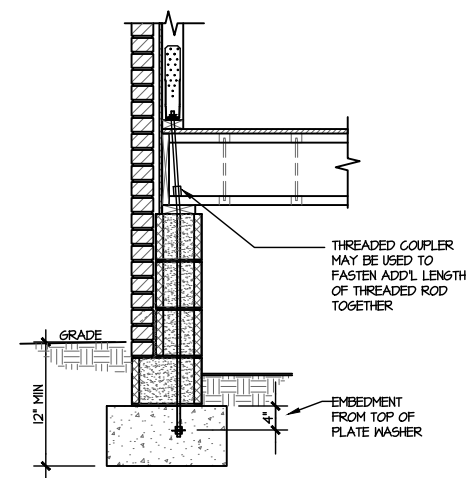
9 TYPICAL CRAWLSPACE FOUNDATION
@ PORCH/PATIO SLAB
SCALE: 3/8"=1'-0" W/ BRICK VENEER



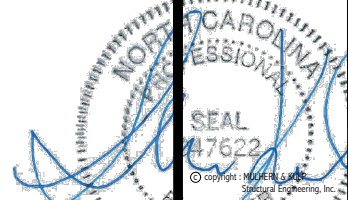
10 TYPICAL FOOTING @ PORCH SLAB
SCALE: 3/8"=1'-0"



D TYPICAL CRAWLSPACE FOUNDATION
HOLD-DOWN INSTALLATION
SCALE: 3/8"=1'-0" W/ BRICK WATERTABLE



E TYPICAL CRAWLSPACE FOUNDATION
HOLD-DOWN INSTALLATION
SCALE: 3/8"=1'-0" W/ FULL BRICK VENEER



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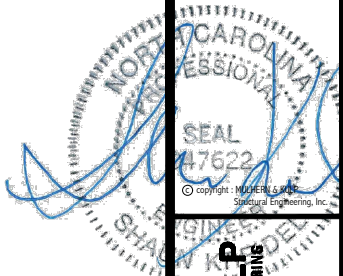
M&K project number:
192-17012
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drawn by: MRG
issue date: 03-24-22

REVISIONS:
date: initial:

ARCH: v.02.01.00.00



FOUNDATION DETAILS
McDOWELL
WIND SPEED < 115 MPH NORTH CAROLINA



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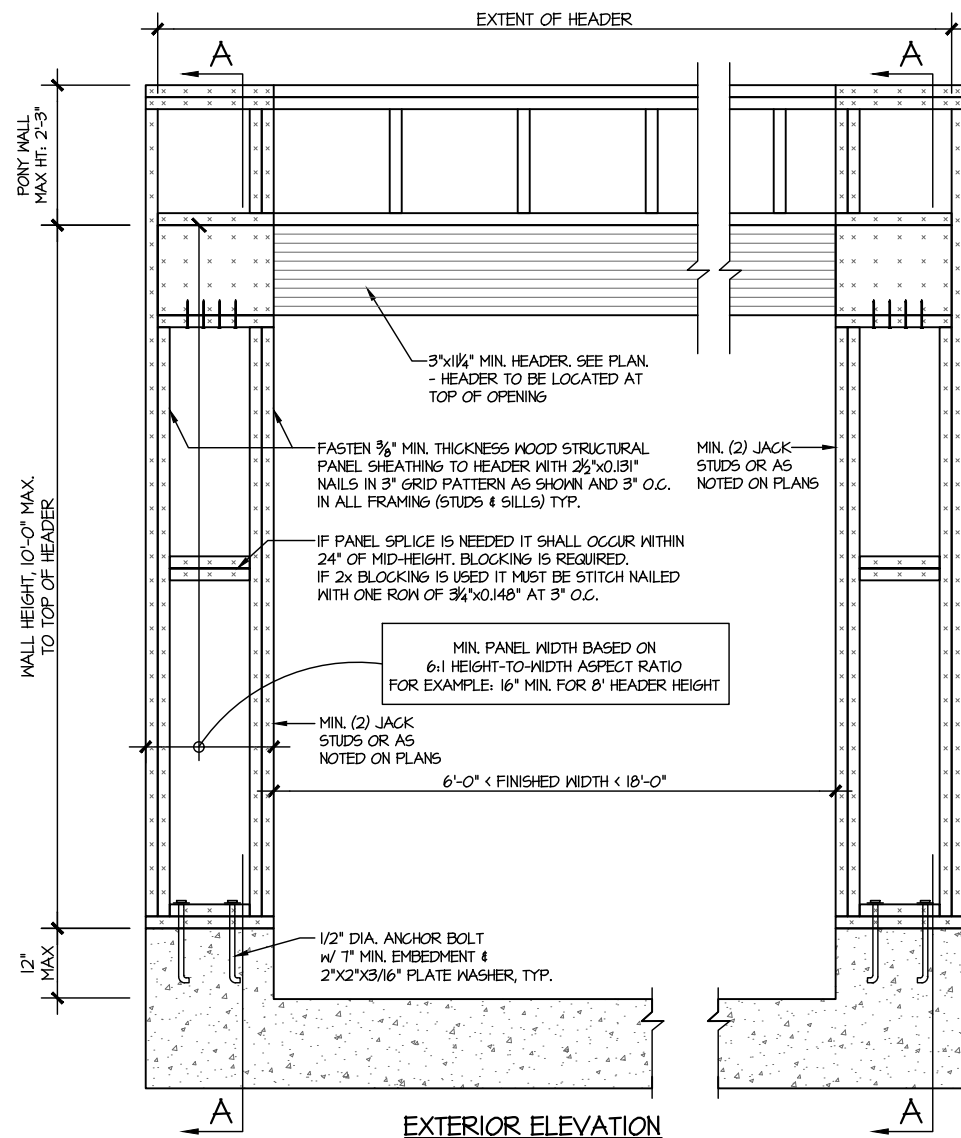
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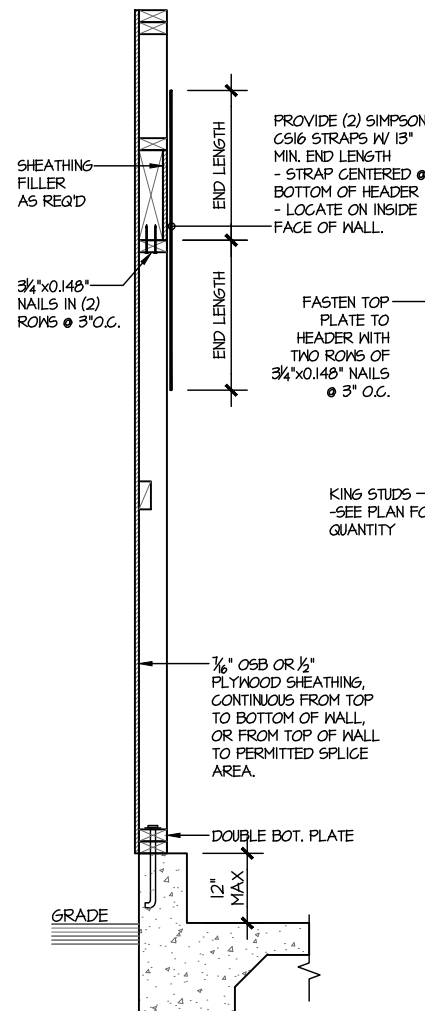
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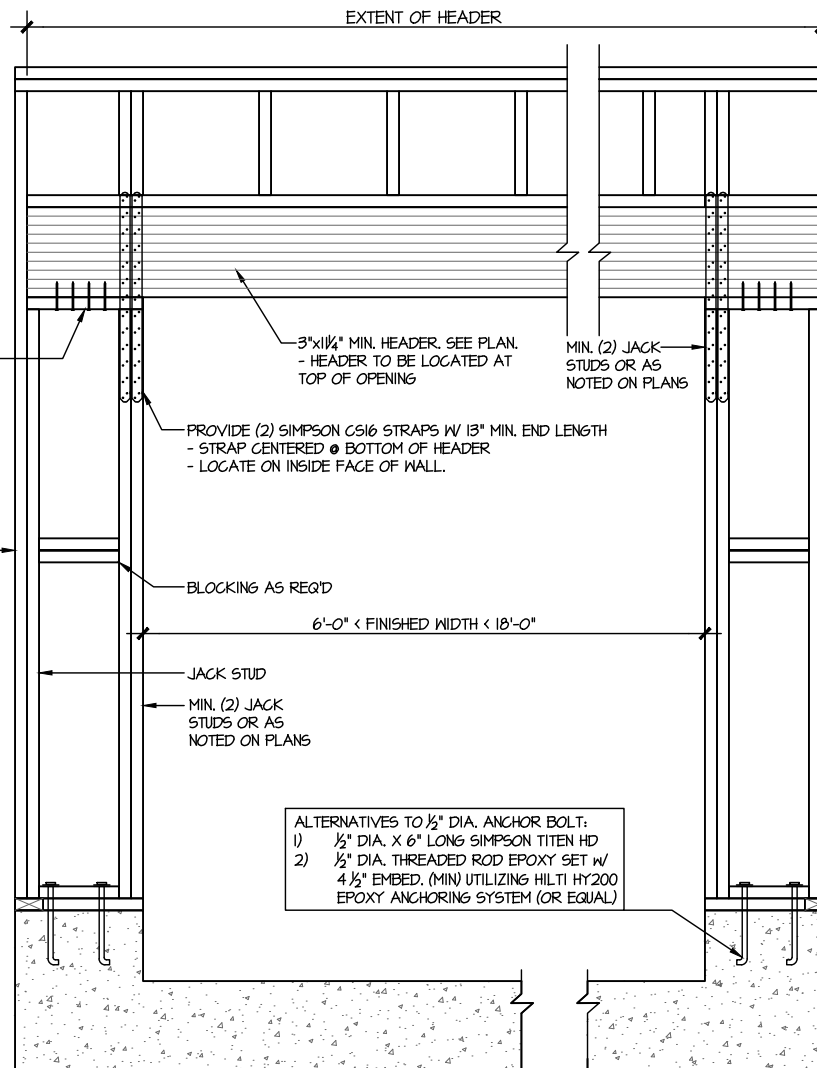
STRUCTURAL DETAILS
McDOWELL
WIND SPEED < 115 MPH NORTH CAROLINA



EXTERIOR ELEVATION

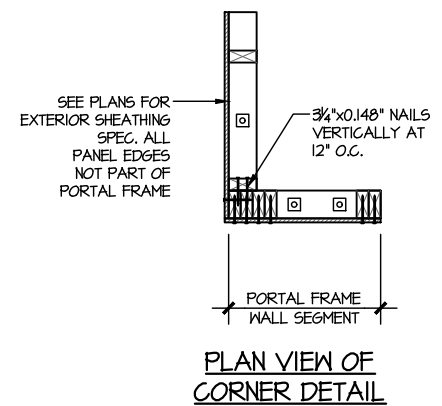


SECTION A-A
THROUGH PIER
MONOSLAB FOUNDATION

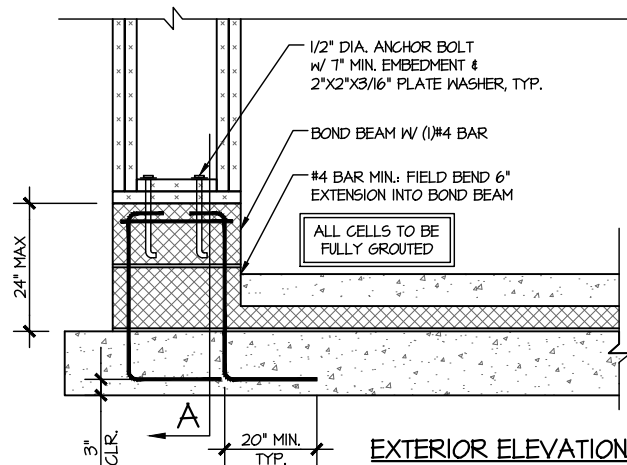


INTERIOR ELEVATION

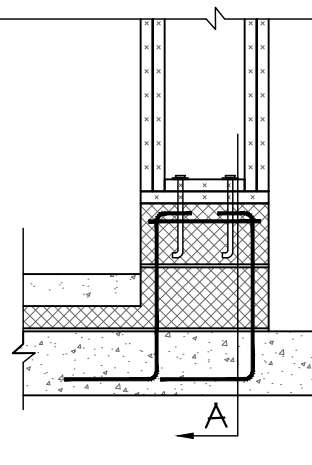
WALL FRAMING SPECIFICATION:
• 2x4 WALL: USE SP/SPF #2 GRADE STUDS (OR BETTER)
• 2x6 WALL: USE SP/SPF #2 GRADE STUDS (OR BETTER)



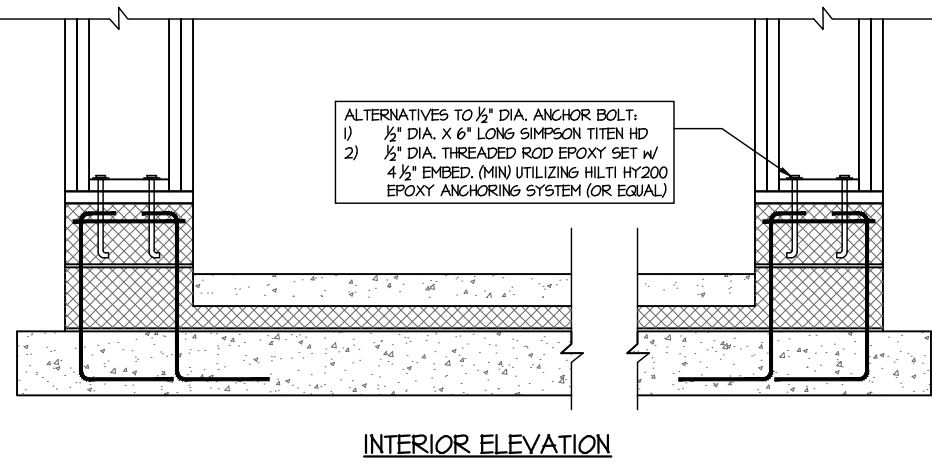
PLAN VIEW OF
CORNER DETAIL



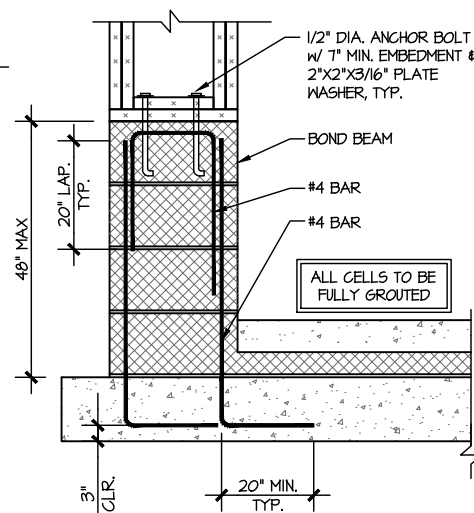
EXTERIOR ELEVATION



SECTION A-A
THROUGH PIER



INTERIOR ELEVATION



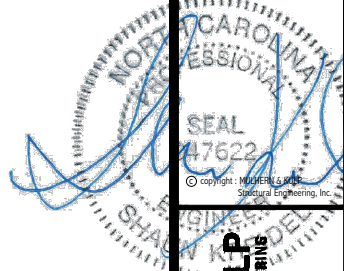
STEM ≤ 48" TALL

PORTAL FRAME DETAIL
SCALE: N.T.S.

BOTH SIDES OF GARAGE DOOR
1 KING STUD & RETURN WALLS

2/19/24

seal:



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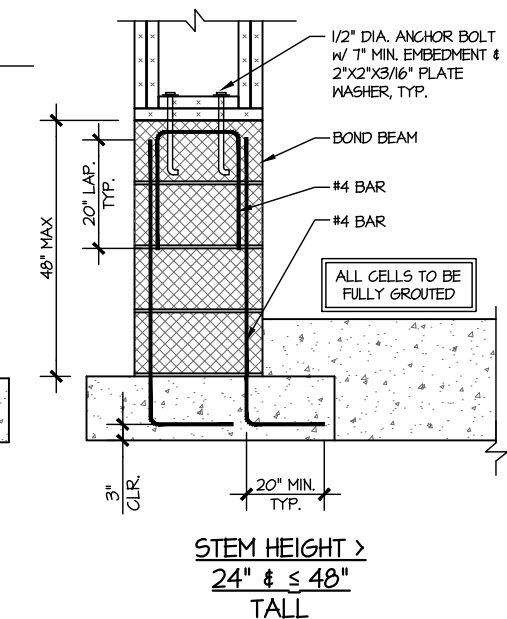
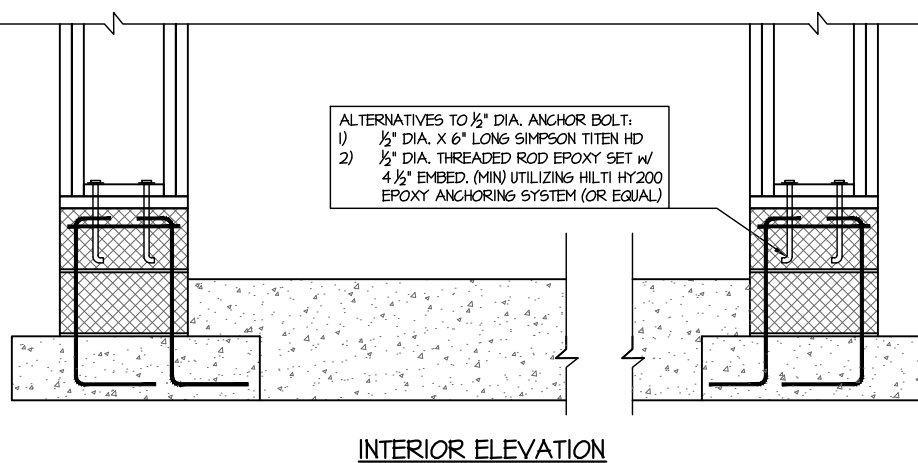
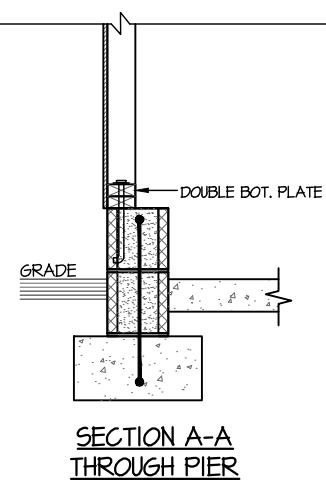
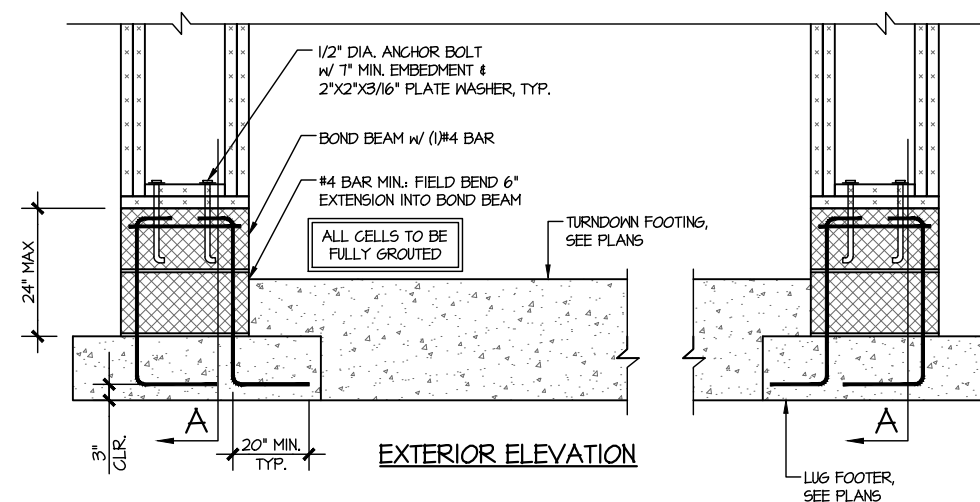
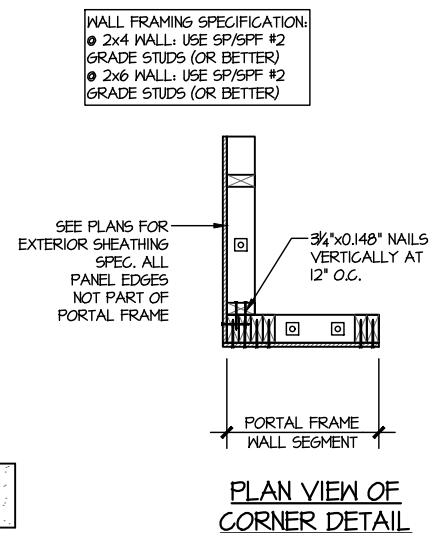
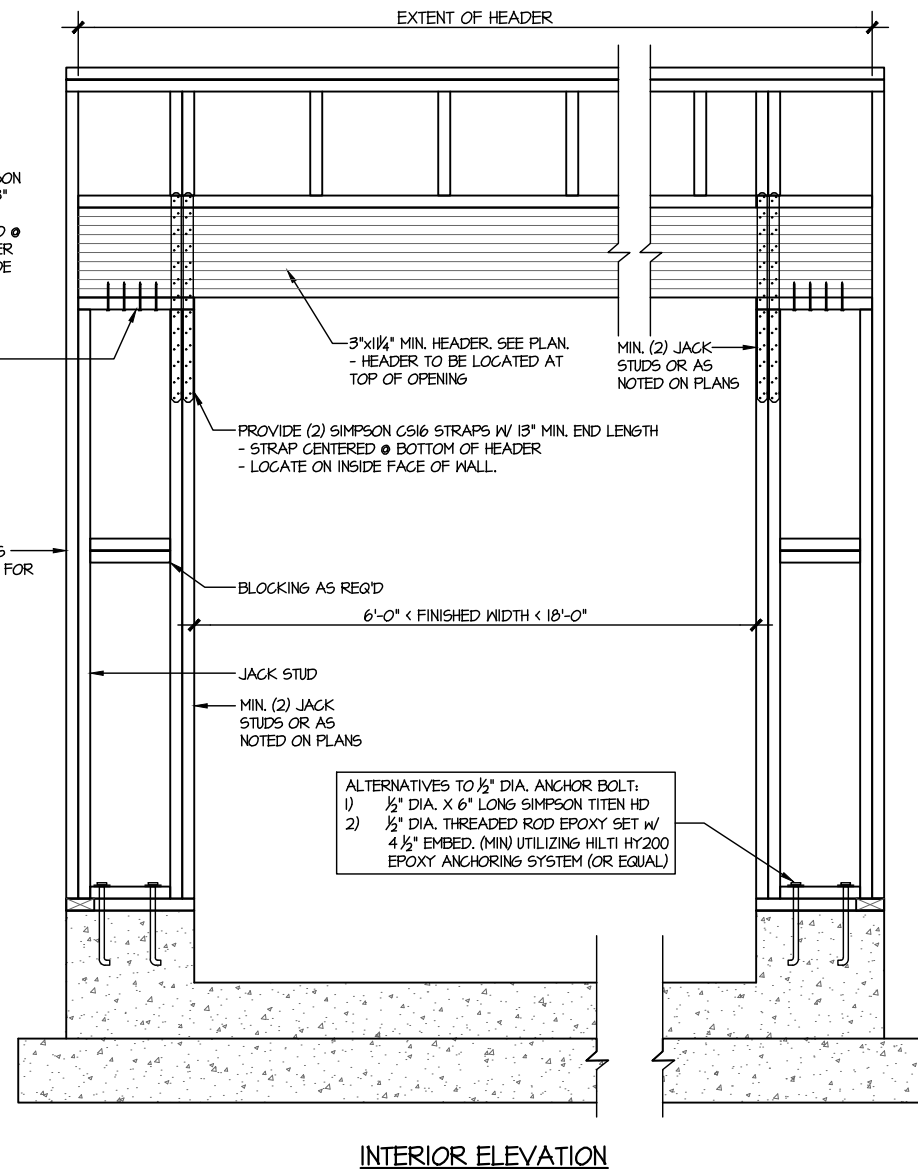
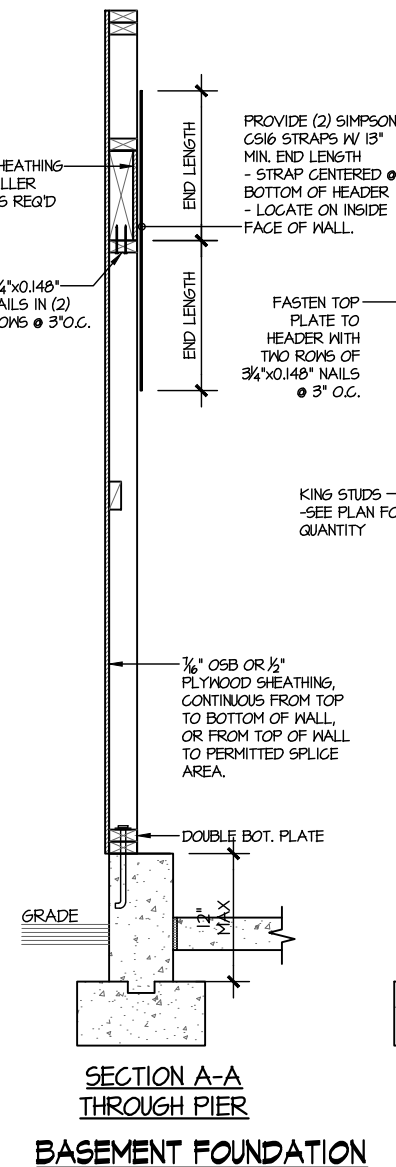
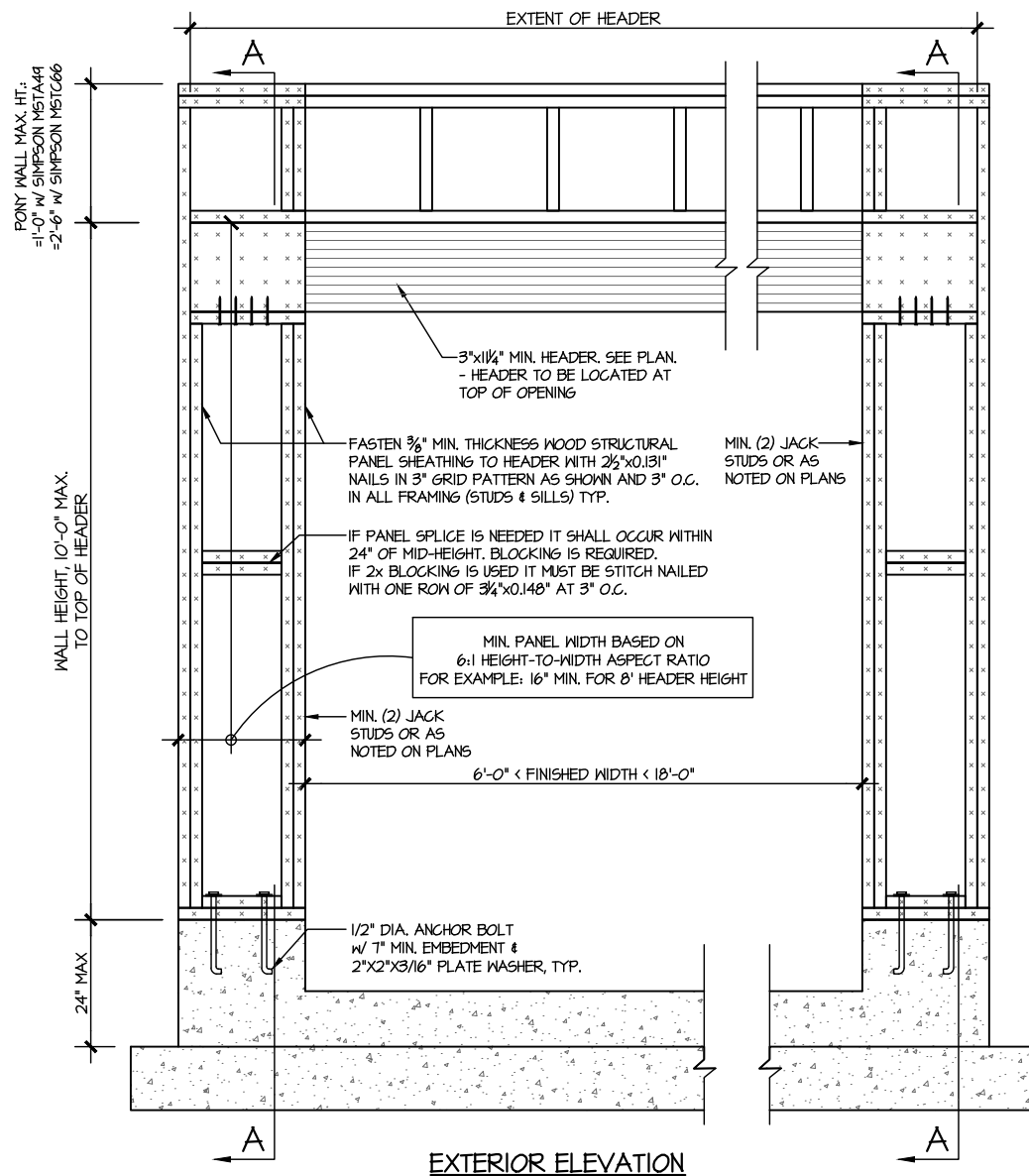
STRUCTURAL DETAILS

McDOWELL

WIND SPEED < 115 MPH NORTH CAROLINA

sheet:

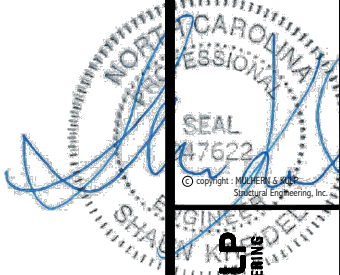
SW-3



PORTAL FRAME DETAIL

SCALE: N.T.S.

BOTH SIDES OF GARAGE DOOR
1 KING STUD & RETURN WALLS



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date: initial:

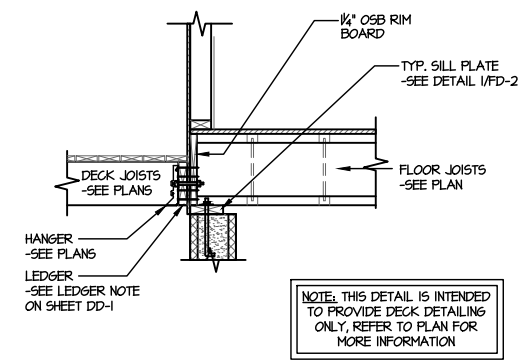
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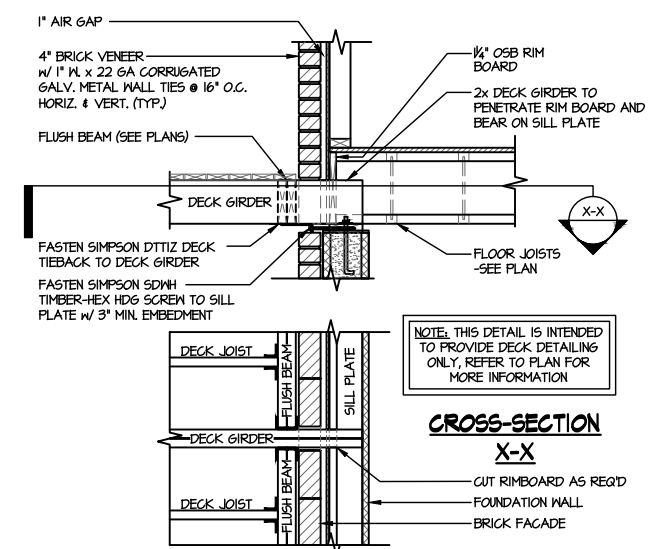
FOUNDATION DETAILS
McDOWELL
WIND SPEED < 115 MPH NORTH CAROLINA

sheet:
DD-1

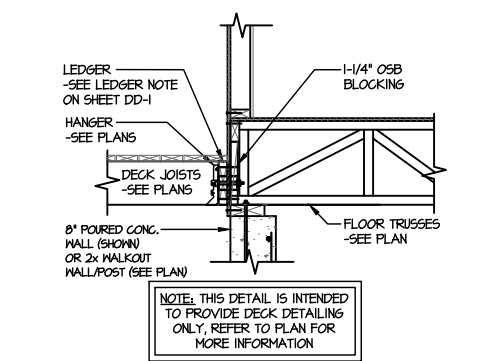
- LEDGER NOTE**
- **LEDGER TO END TRUSS:**
-FASTEN 2x LEDGER (MATCH D.J.) TO END TRUSS VERTICALS w/ (1) 1/2" DIA. THRU BOLT + (4) 2 1/2"x0.135" NAILS @ 16" O.C. PACK OUT END TRUSS AS REQ'D FOR LEDGER FASTENING.
 - **LEDGER TO RIMBOARD/BLOCKING:**
-FASTEN 2x LEDGER (MATCH D.J.) TO RIMBOARD/BLOCKING w/ (1) 1/2" DIA. THRU BOLT + (4) 2 1/2"x0.135" NAILS @ 16" O.C.
 - **PROVIDE (2) BOLTS IN END (2) JOIST BAYS @ EACH END OF DECK**
 - **INSTALL (1) SIMPSON H8 CLIP ON LAST (2) DECK JOISTS @ EACH END OF DECK, CONNECTING SIDE OF JOIST TO TOP OF LEDGER (IRC R502.2.2)**
 - **ALT. LEDGER SPEC:**
FASTEN 2x10 LEDGER TO RIMBOARD w/ (2) 1/4" DIA. X 3 1/2" LONG SIMPSON SD5 SCREWS @ 16" O.C.
 - **NOT APPLICABLE AT BRICK CONDITIONS**



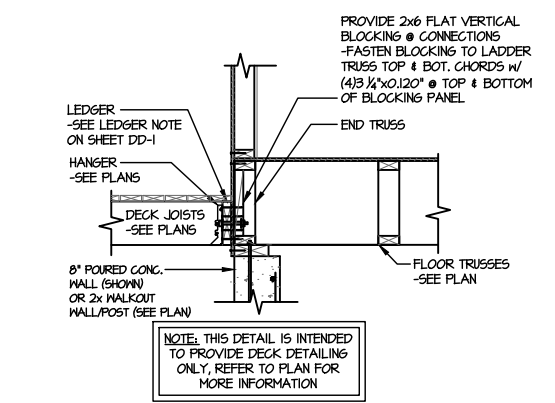
1 TYPICAL DECK CONNECTION
@ CRAWLSPACE
SCALE: 3/8"=1'-0"



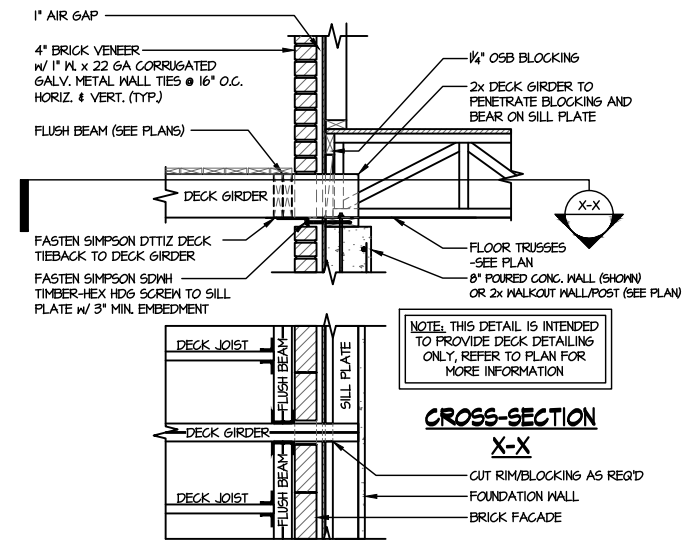
2 TYPICAL DECK CONNECTION
@ CRAWLSPACE w/ BRICK
SCALE: 3/8"=1'-0"



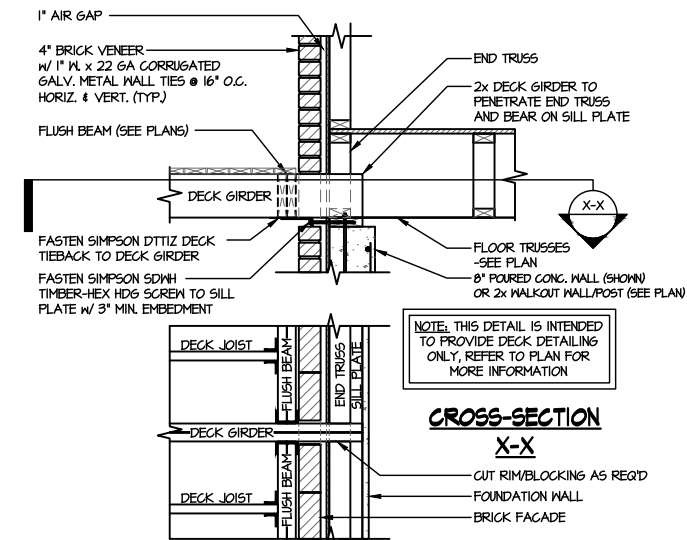
3 TYPICAL DECK CONNECTION
@ BASEMENT
SCALE: 3/8"=1'-0" PERPENDICULAR FRAMING



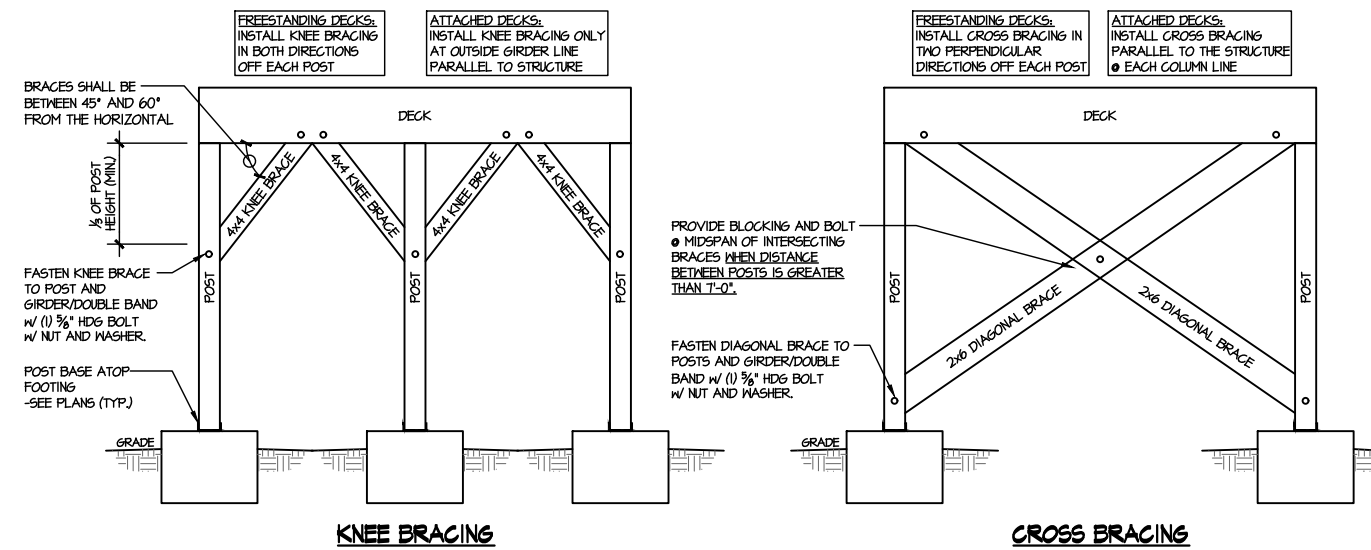
4 TYPICAL DECK CONNECTION
@ BASEMENT
SCALE: 3/8"=1'-0" PARALLEL FRAMING



5 TYPICAL DECK CONNECTION
@ BASEMENT w/ BRICK
SCALE: 3/8"=1'-0" PERPENDICULAR FRAMING



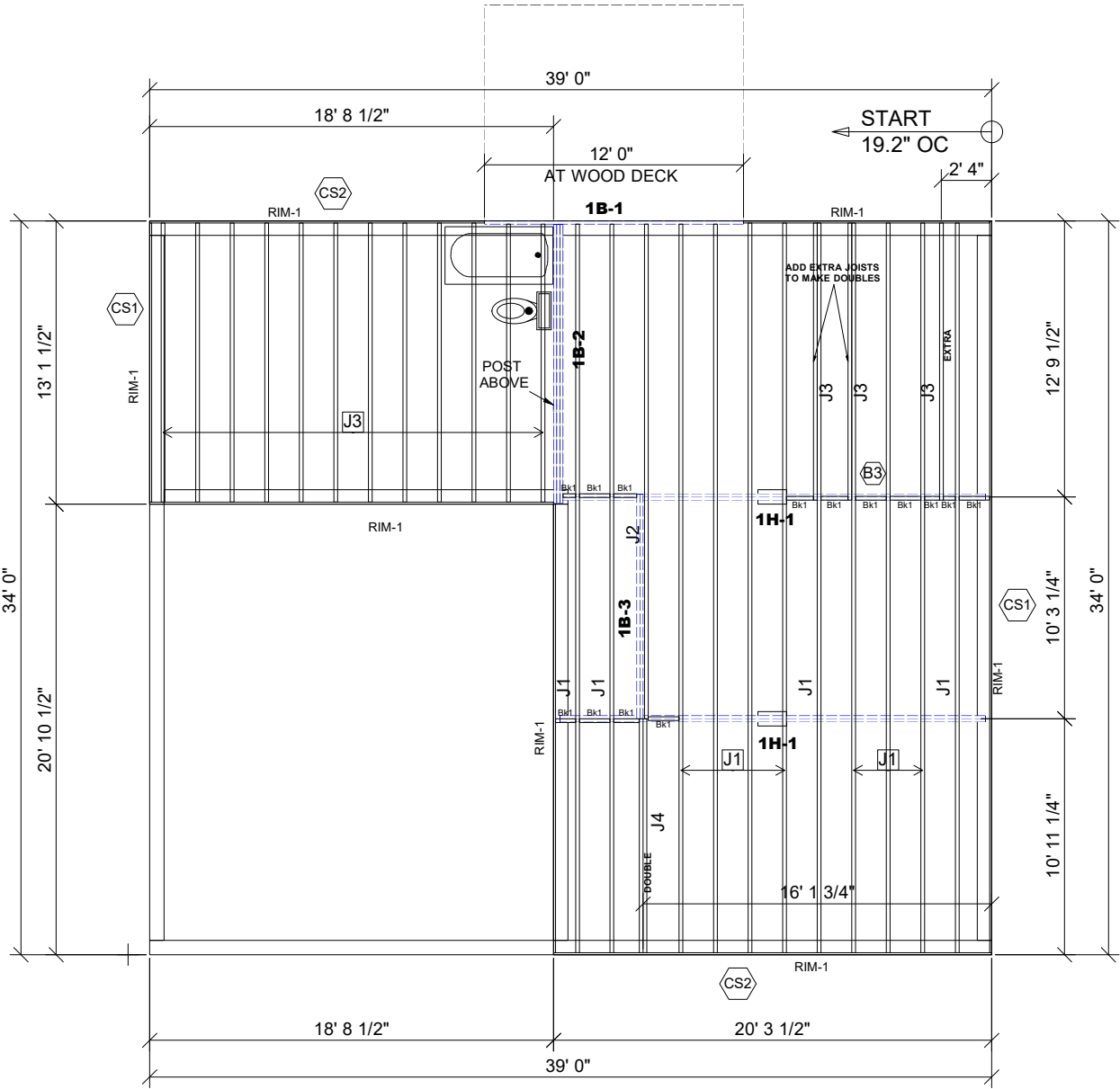
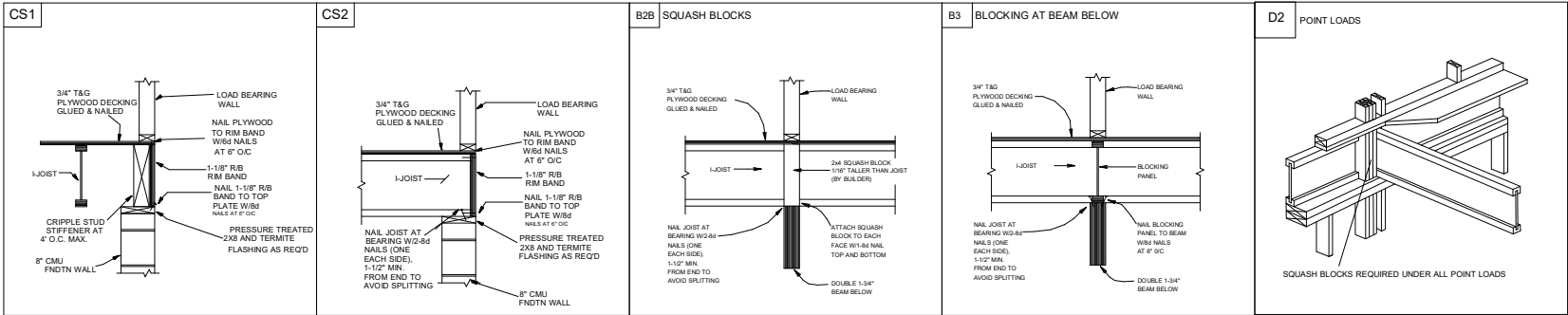
6 TYPICAL DECK CONNECTION
@ BASEMENT w/ BRICK
SCALE: 3/8"=1'-0" PARALLEL FRAMING



A TYPICAL LATERAL BRACING DETAILS FOR DECKS GREATER THAN 4' HIGH
SCALE: NTS

THIS IS AN ENGINEERED WOOD PRODUCT (EWP) MEMBER PLACEMENT DIAGRAM ONLY; NOT AN ENGINEERED DOCUMENT. EWP members are designed as individual building components to be incorporated into the building design at the specification of the building designer. The Contractor is responsible for the temporary bracing of the floor system, and the building designer is responsible for the permanent bracing and blocking of the floor system and the overall structure. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. It is the responsibility of the General Contractor to verify that the provided layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" EWP MEMBERS IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framer is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not joist to joist are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not joist to joist as they apply to this specific structure.

FLOOR PLACEMENT PLAN



● Avoid Plumbing Drops

**FIELD LOCATE
PLUMBING DROPS/CAN
LIGHTS, ETC... PRIOR
TO JOIST
SECUREMENT TO
AVOID INTERFERENCE.**

LAYOUT FOR 19.2" O/C

1= 19-3/16"	9= 172-13/16"
2= 38-3/8"	10= 192"
3=57-5/8"	11= 211-3/16"
4= 76-13/16"	12= 230-3/8"
5= 96"	13= 249-13/16"
6= 115-3/16"	14= 268-13/16"
7= 134-3/8"	15= 288"
8= 153-5/8"	

FRAMER NOTE
1. GLUE AND NAIL PLYWOOD SUBFLOOR TO BEAMS AND GIRDERS AT 6" O/C WHERE NO WALL IS ABOVE.
2. FILL HANGER SEAT WITH GLUE BEFORE SETTING JOIST IN HANGER. FILL ROUND HOLES WITH NAILS.

CRITICAL !!
INSTALL 2X4 SQUASH BLOCKS IN FLOOR TRUSS SPACE BELOW ALL EXTERIOR DOOR HEADER JACKS. CUT 1/16" TALLER THAN TRUSS.

FIELD VERIFY DIMENSIONS TO
JOISTS LOCATED UNDER WALLS!!

1ST FLOOR LAYOUT

SCALE: 1/8"=1'

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	34' 0"	11 7/8" TJI@ 210	1	11	MFD
J2	23' 0"	11 7/8" TJI@ 210	1	1	MFD
J3	13' 0"	11 7/8" TJI@ 210	1	15	MFD
J4	11' 0"	11 7/8" TJI@ 210	2	2	MFD
1B-1	12' 0"	1 3/4" x 11 7/8" 1.55E TimberStrand® LSL	1	1	MFD
1H-1	20' 0"	1 3/4" x 9 1/4" 2.0E Microllam® LVL	2	4	MFD
1B-2	13' 0"	1 3/4" x 11 7/8" 2.0E Microllam® LVL	3	3	MFD
1B-3	11' 0"	1 3/4" x 11 7/8" 2.0E Microllam® LVL	2	2	MFD
RIM-1	16' 0"	1 1/8" x 11 7/8" TJI@ Rim Board	1	10	FF
Bk1	2' 0"	11 7/8" TJI@ 210	1	14	MFD
Connector Summary					
PlotID	Qty	Manuf	Product		
H1	8	Simpson	IUS2.06/11.88		

GENERAL NOTES:	
1.) TOP CHORD OF JOISTS ARE PAINTED RED AT NUMBERED END. PLACE PAINTED END AS NOTED ON PLAN.	
2.) FOLLOW SPECIAL SPACING AND LOCATION DIMENSIONS FOR EXTRAS OR SHIFTED JOISTS AS SHOWN ON PLAN.	
3.) ALL INTERIOR WALL PLATES MUST BE LEVEL WITH OUTSIDE WALL TOP PLATES.	
4.) DO NOT STACK CONSTRUCTION LOADS ON UN-BRACED JOISTS.	
5.) PROVIDE SOLID SUPPORT BELOW ALL BEAM AND HEADER BEARING POINTS IN WALL AND JOIST SPACES CONTINUOUS DOWN TO THE FOUNDATION.	
6.) LOCATE CRIPPLE STUDS IN JOIST SPACE DIRECTLY BELOW HEADER JACKS AT ALL FIRST FLOOR EXTERIOR DOOR LOCATIONS.	
7.) INSTALL NAILS IN ALL HOLES PROVIDED IN JOIST HANGERS EXCEPT AT BOTTOM CHORD SEAT. PLACE A DAB OF GLUE IN THE HANGER SEAT BEFORE SETTING JOISTS.	
8.) IMPORTANT NOTE! NO STRUCTURAL ANALYSIS OF CONVENTIONAL HEADERS HAS BEEN CONDUCTED IF NOT NOTED. THEY ARE CONSIDERED TO BE ADEQUATE TO SUPPORT THE APPLIED LOADS.	
PLAN LEGEND	
1B-, 2B-	*INDICATES BEAM ABOVE TOP PLATE (FLUSH WITH FLOOR SYSTEM)
H-, 1H-, GDH-	INDICATES BEAM BELOW TOP PLATE (DROPPED BELOW FLOOR SYSTEM)
*BEAMS MAY PROTRUDE ABOVE OR BELOW DECKING OR TOP PLATE RESPECTIVELY. REFER TO DETAIL IF BEAM IS A DIFFERENT DEPTH THAN FLOOR SYSTEM	
	SINGLE PLY BEAM (ADD LINE FOR EACH ADDITIONAL PLY)
SHIFT	SHIFT JOIST TO MISS PLUMBING, ALIGN WITH WALL OR SUPPORT FURNITURE
EXTRA	A JOIST ADDED TO THE LAYOUT IN ADDITION TO THE ON CENTER JOISTS
DOUBLE	TWO JOISTS SIDE BY SIDE (ONLY ASSEMBLED IF NOTED)
ALL DIMENSIONS TO CENTERLINE UNLESS OTHERWISE NOTED	

REVISIONS	DESCRIPTION	DATE	DSN						

DESIGNER GB1
LAYOUT DATE 12/9/24
ARCH DATE
STRUC DATE

JOB #: 25010401F1

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LANGDON PRESERVE

MCDOWELL

LOT 31
ANGIER, NC

UFP SITE BUILT

A UFP INDUSTRIES COMPANY



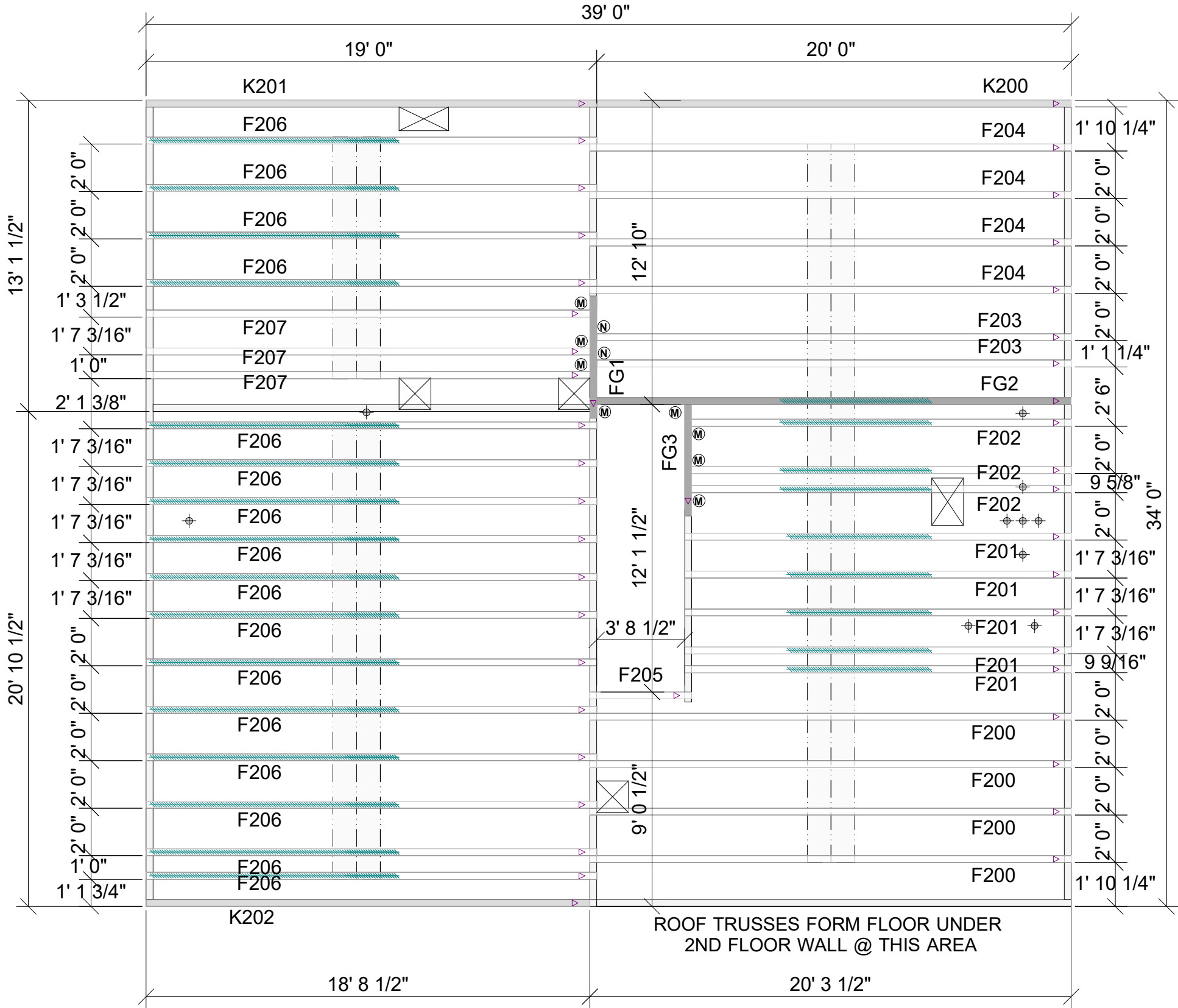
Burlington, NC Locust, NC
Chesapeake, VA Liberty, NC
Clinton, NC Ooltewah, TN
Conway, SC Pearisburg, VA
Jefferson, GA Stanfield, NC

Customer Service (800) 476-9356

THIS IS A TRUSS PLACEMENT DIAGRAM (TPD) ONLY; NOT AN ENGINEERED DOCUMENT. Trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual truss design drawings (TDD's) for each truss design identified on the TPD. The Contractor is responsible for the temporary bracing of the roof and floor system, and requirements for the permanent restraint/bracing of truss systems may be met by following the methods outlined in ANSI-TPI 1-2014 - 2.3.3. The design of the support structure including but not limited to headers, beams, walls, and columns is also the responsibility of the building designer. For general guidance regarding installation and bracing, consult "Building Component Safety Information" (BCSI) available from the SBC Association (www.sbcassociation.com). It is the responsibility of the General Contractor to verify that the provided component layout matches the final intended construction plans, loading conditions, and use. If they do not, it is the responsibility of the General Contractor to notify UFP and provide plans containing the latest specifications and designs. UFP will not be responsible for plan changes by others after final approval of shop drawings, or for errors or modifications made on-site during construction. DO NOT CUT, NOTCH, DRILL, OR OTHERWISE "REPAIR" MANUFACTURED TRUSSES IN ANY WAY WITHOUT PRIOR WRITTEN AUTHORIZATION BY A LICENSED PROFESSIONAL DESIGNATED BY UFP. The Framing is responsible to verify all dimensions, including adjusting member spacing within tolerances to allow for the drop and rise of plumbing/HVAC, unless noted otherwise. Truss-to-wall connections, if shown, are for uplift only and do not consider lateral loads. All connectors on this project are to be installed per the connector manufacturer's specifications. All connectors shown that are not truss-to-truss are suggestions only and are to be verified by the Building Designer or Engineer of Record for suitability to this particular project. UFP accepts no responsibility for the specific application or suitability of any connector that is not truss-to-truss as they apply to this specific structure.

2ND FLOOR PLACEMENT PLAN

72501359 31 LANGDON PRESERVE



Floor Hanger List		
MARK	TYPE	QTY
(M)	THA422	8
(N)	THAC422	2

△ INDICATES LEFT END OF TRUSS SCALE: N.T.S

ROOF AREA: 0 ft² sqft

RIDGE LINE: 0 ft

VALLEY LINES: 0 ft

HIP LINES: 0 ft

THESE VALUES ARE APPROXIMATE ONLY

REVISIONS

DATE	DESCRIPTION	DSN
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

DESIGNER LJP

LAYOUT DATE 11/25/2024

ARCH DATE -

STRUC DATE -

JOB #: 24111627F2

MCDOWELL C 2ND FLR

MUNGO HOMES

TRUSS TRAX

UPCONSTRUCTION

TrustTraxUFP.com

UFP SITE BUILT

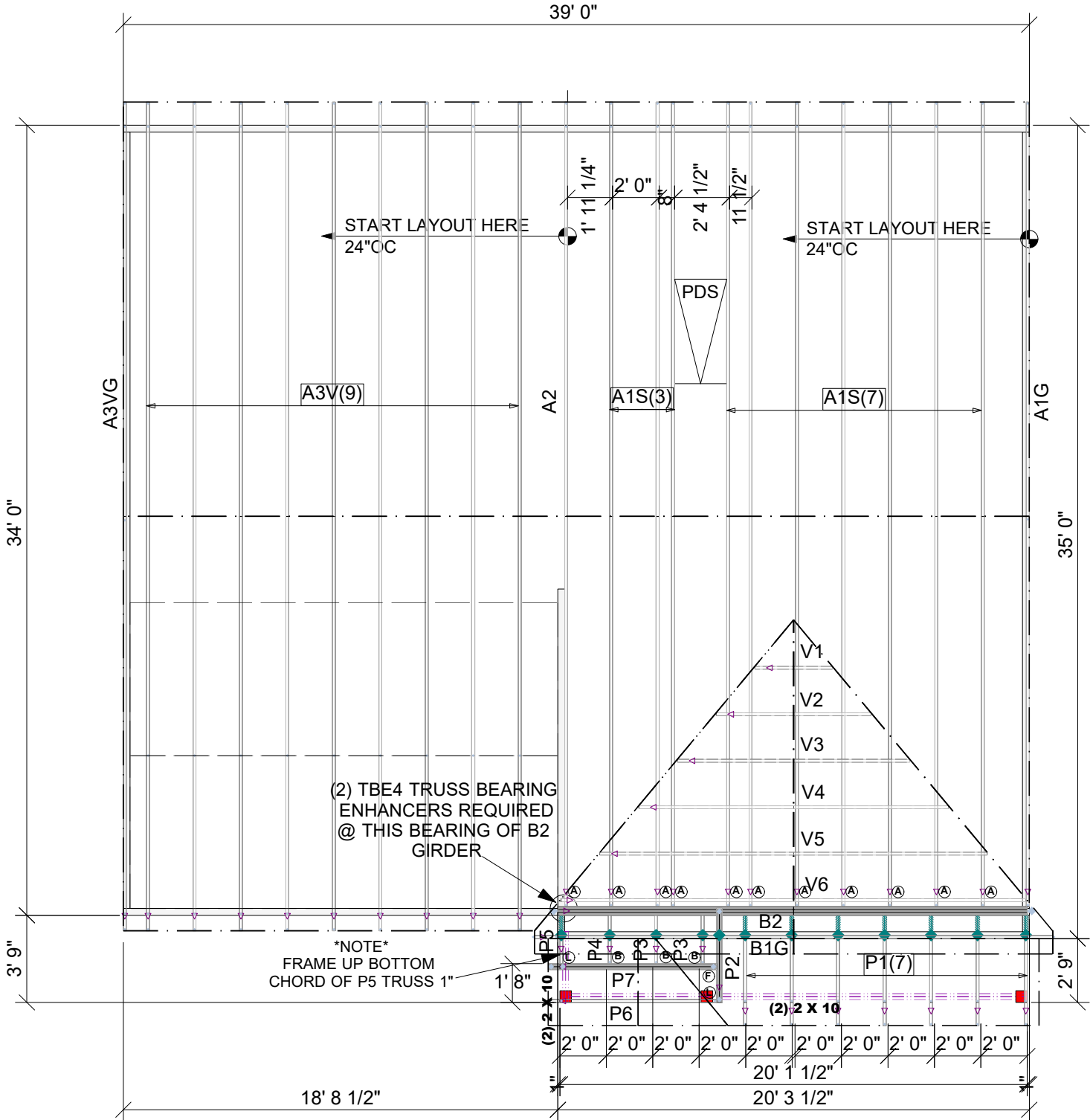
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ROOF PLACEMENT PLAN



****NOTE****
(4) LUS26 HANGERS TO BE USED @ PDS HEADERS (NOT SHOWN)
ADD 2X4 BLOCKING IN FIELD FOR ROOF SHEATHING AND DRYWALL @ PULL DOWN STAIR AREA AS NEEDED

Roof Hanger List		
MARK	TYPE	QTY
(A)	HUS26	11
(B)	LUS26	3
(F)	HHUS26-2	1
(L)	TJC37	2

△ INDICATES LEFT END OF TRUSS SCALE: N.T.S

ROOF AREA: 1624.29 ft² sqft

RIDGE LINE: 57.13 ft

VALLEY LINES: 41.69 ft

HIP LINES: 0 ft

THESE VALUES ARE APPROXIMATE ONLY

REVISIONS

DATE	DESCRIPTION	DSN
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

DESIGNER LJP

LAYOUT DATE 01/15/2025

ARCH DATE -

STRUC DATE -

JOB #: 25010401

MCDOWELL C RF

MUNGO HOMES

TRUSS TRAX

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