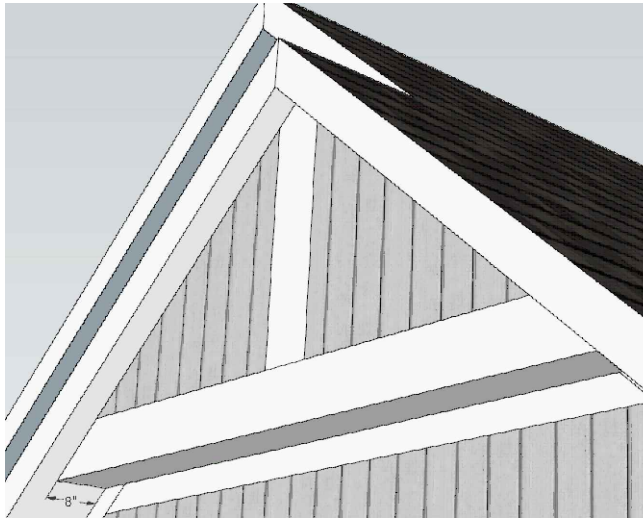
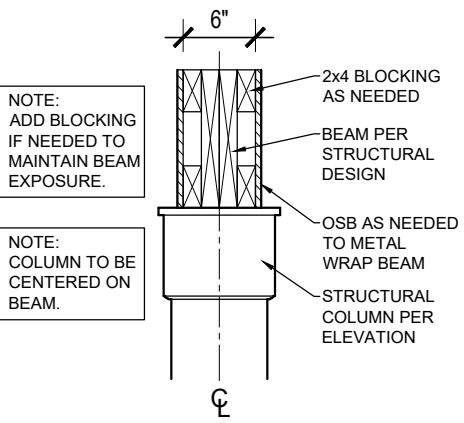




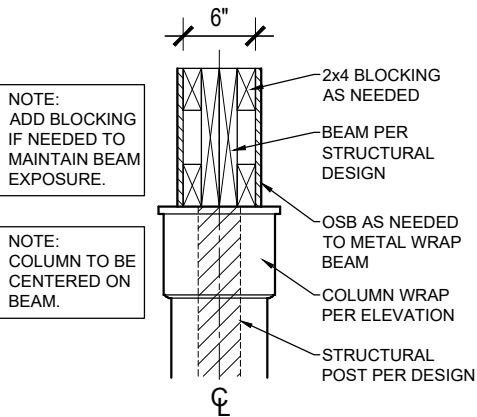
Boxed-Out Gable Detail

N.T.S.



Standard Front Porch Beam Detail w/ Aluminum Column

3/4" = 1'-0"



Alternate Front Porch Beam Detail w/ 4x4 Post & Wrap

3/4" = 1'-0"



FRONT ELEVATION

3/16" = 1'-0"

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

12" OVERHANG OPTION PER COMMUNITY REQUIREMENTS

- 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.

LISTS OF DRAWINGS

A1 Base Front Elevation	A2 Base Side & Rear Elevations	B1 First Floor Plan	E1 First Floor Electrical
A1b Front w/ 3rd Car Garage Opt.	A2b Elevations w/ 3rd Car Garage Opt.	B2 Second Floor Plan	E2 Second Floor Electrical
AA-1 Front w/ Brick/Stone Opt.	A2c Elevations w/ Alt. 2nd Floor Opt.	B2b 2nd Flr. w/ Alt. 2nd Flr. Option	E2b 2nd Flr. w/ Alt. 2nd Flr. Option
	A2d Elevations w/ Alt. 2nd Floor w/ 3rd Car Gar. Opt.	B2c 2nd Flr. w/ Alt. 2nd Flr. w/ 3rd Bath Opt.	E2c 2nd Flr. w/ Alt. 2nd Flr. w/ 3rd Bath Opt.
	A3 Elevations w/ Covered Porch Opt.	B3 Foundation Information Sheet	
	A-R1 Roof Plan	B4 Guest Suite Option	
		B5 3rd Car Garage Option	



D Square Footages:

1st Floor.....	1089
2nd Floor.....	1468
Garage.....	431
Front Porch.....	101
Covered Porch Option.....	120
3rd Car Garage Option.....	220

2557

4 LLP

Russell D
Genesis Series
v.03.03.00.00

Features:

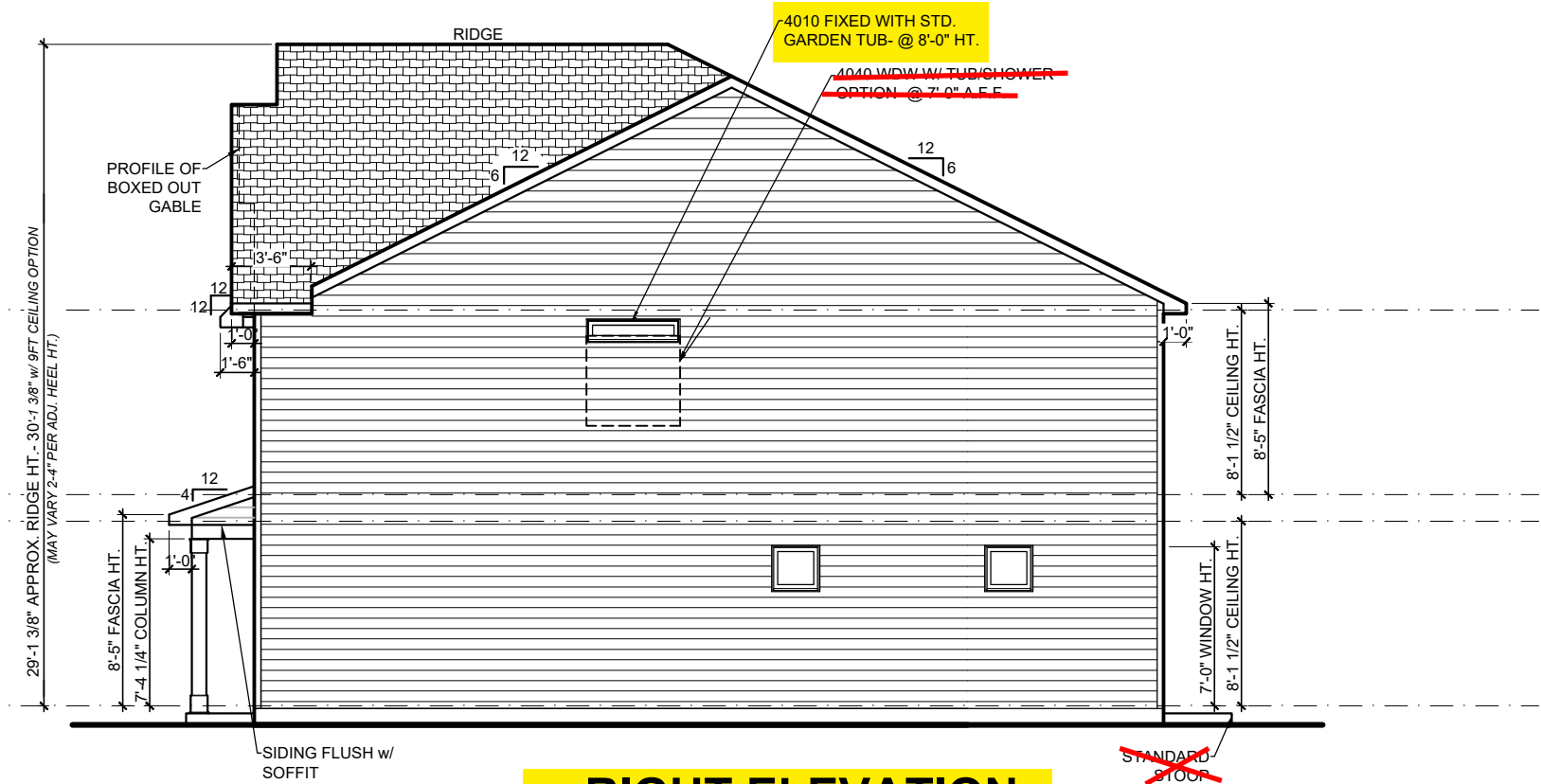
Rev By: CJA /AW EB
Drawn By: AM
Date: 5/16/2025

A1

9FT CEILING OPTION NOTES:

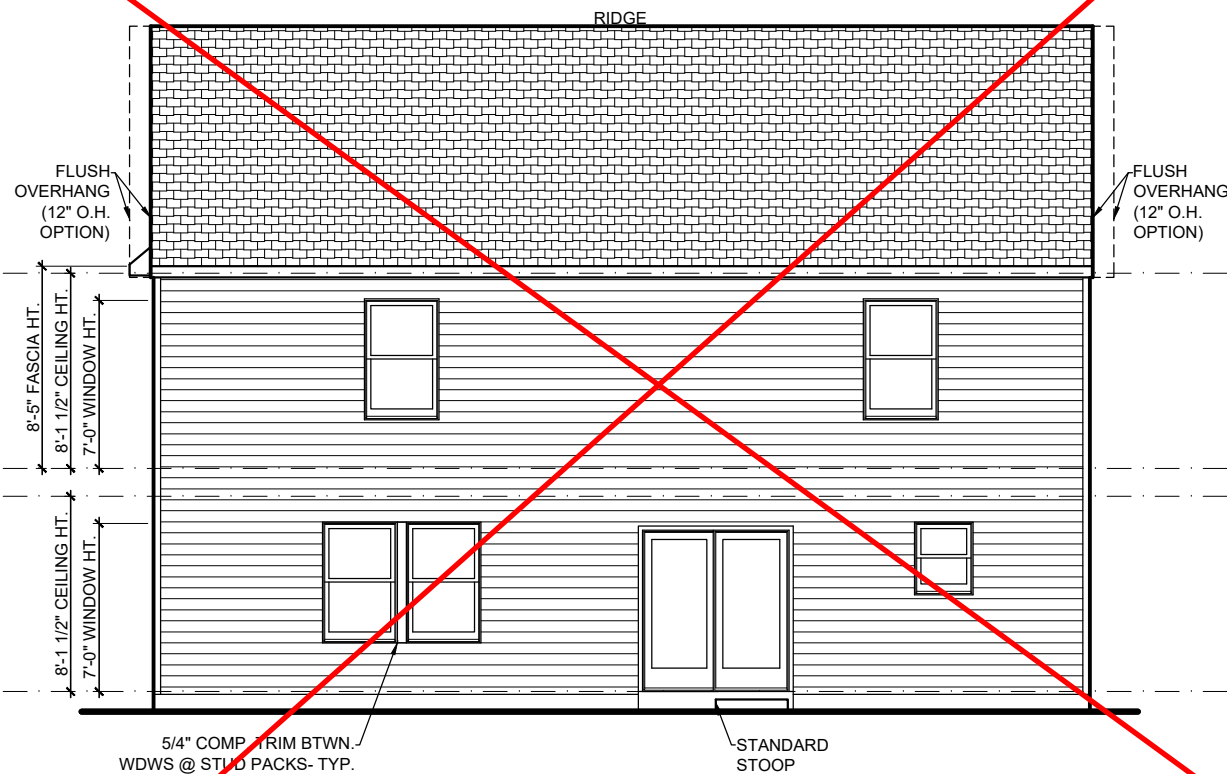
- 1. Fascia heights from 1st Flr of main house increase 12in.
Fascia heights from 2nd Flr of main house remain the same.
- 2. Fascia/beam/column heights at Front and Rear Porches remain the same (regardless of fascia @ main house.)
- 3. Roof pitch at porch may change. Follow notes at elevations.
- 4.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

12" OVERHANG OPTION PER
COMMUNITY REQUIREMENTS



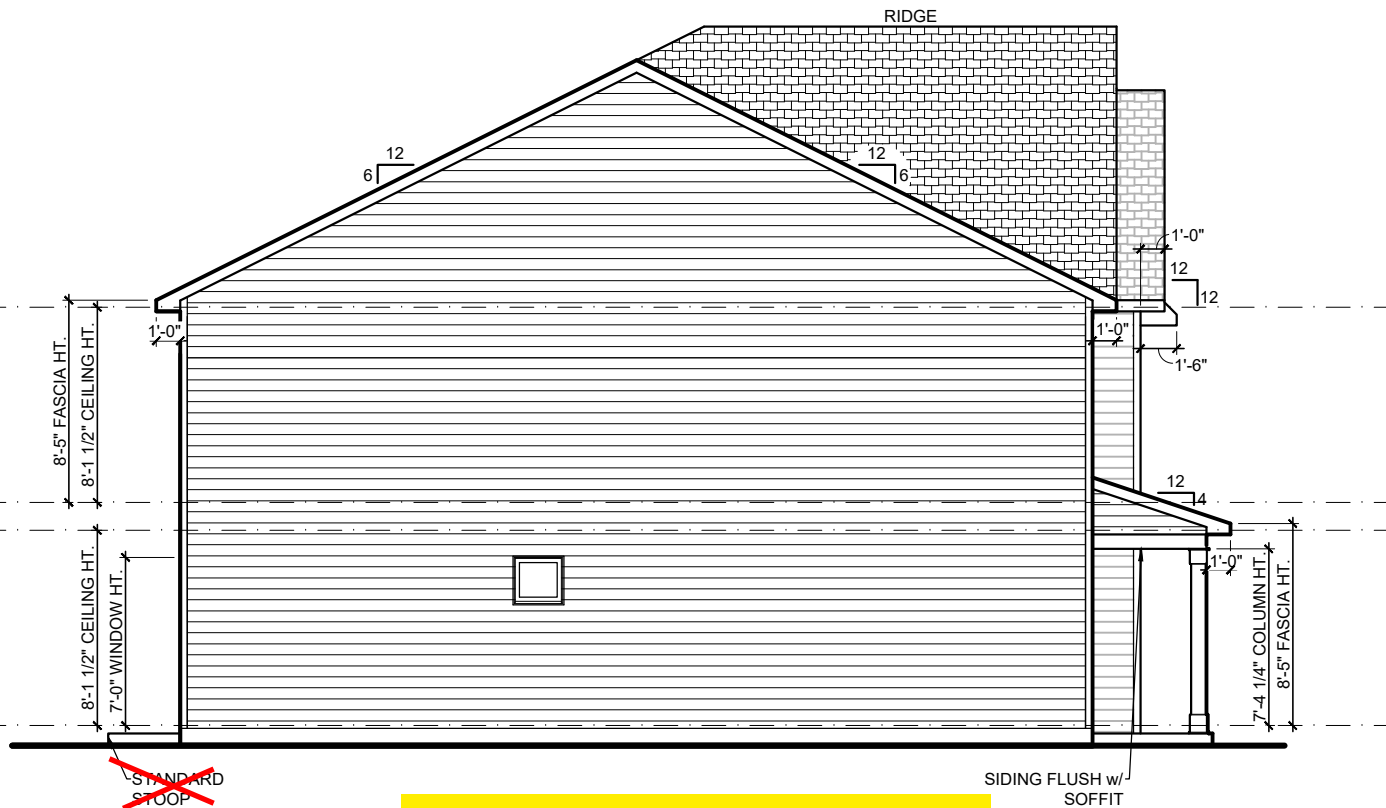
RIGHT ELEVATION

1/8" = 1'-0"



REAR ELEVATION

1/8" = 1'-0"



LEFT ELEVATION

1/8" = 1'-0"



D Square Footages:

1st Floor.....	1089
2nd Floor.....	1468
Alternate 2nd Floor.....	1472
Garage.....	431
Front Porch.....	101
Covered Porch Option.....	120
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Russell D

Genesis Series
v.03.03.00.00

Features:

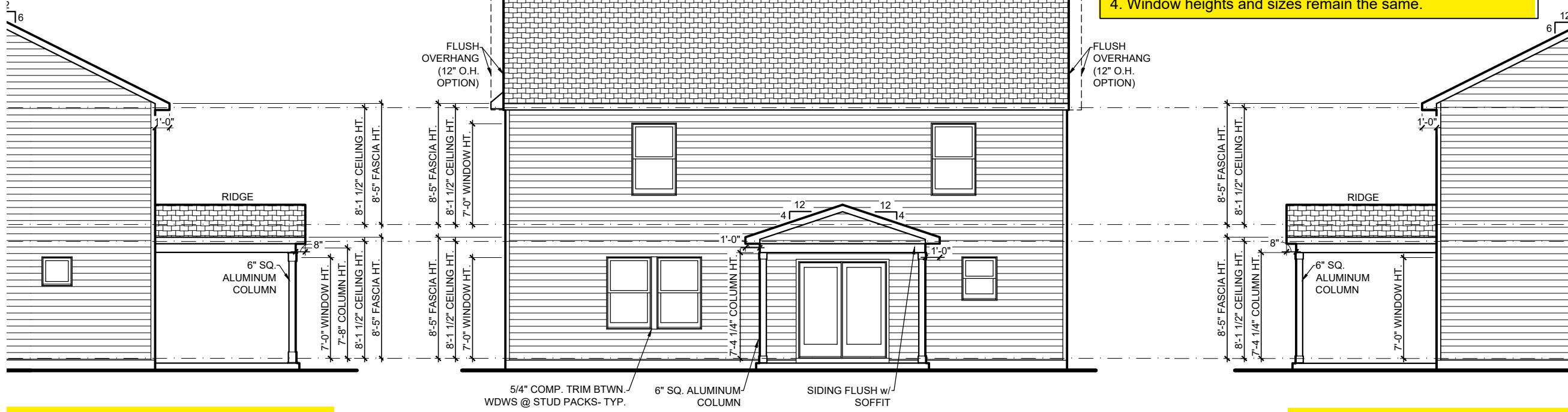
Rev By:
CJA /AW EB

Drawn By: AM

Date: 5/16/2025

A2

.TD.
-0" HT.
V/ TUB/SHOWER
7'-0" A.F.F.



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

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

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

12" OVERHANG OPTION PER
COMMUNITY REQUIREMENTS

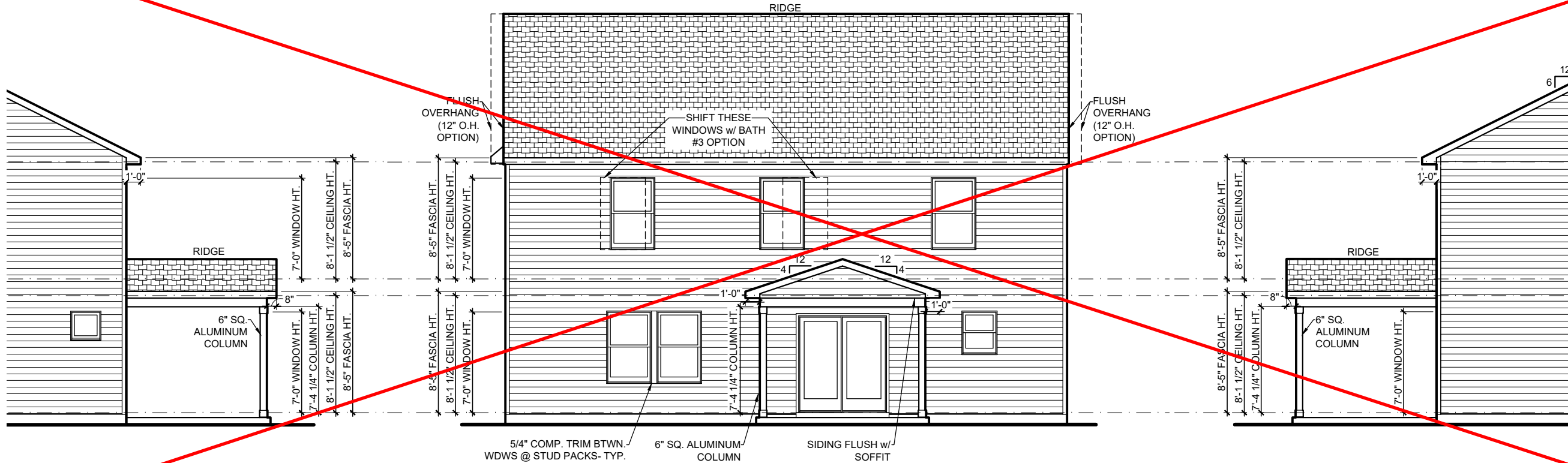
- 9FT CEILING OPTION NOTES:**
1. Fascia heights from 1st Flr of main house increase 12in.
Fascia heights from 2nd Flr of main house remain the same.
 2. Fascia/beam/column heights at Front and Rear Porches remain the same (regardless of fascia @ main house.)
 3. Roof pitch at porch may change. Follow notes at elevations.
 4. Window heights and sizes remain the same.

**COVERED PORCH
OPTION**



D Square Footages:

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2nd Floor.....	1468
Alternate 2nd Floor.....	1472
Garage.....	431
Front Porch.....	101
Covered Porch Option.....	120
3rd Car Garage Option.....	220



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

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

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

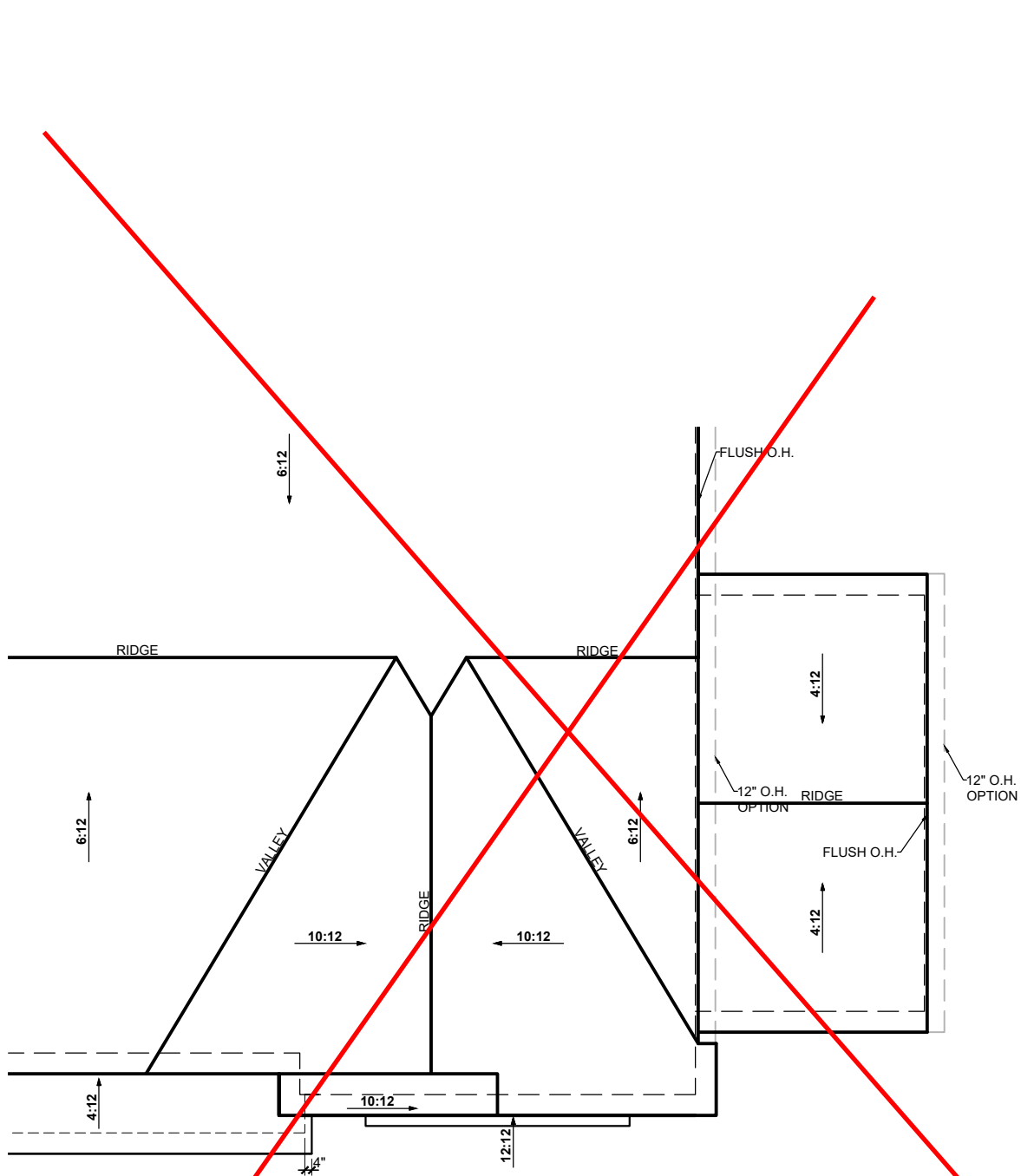
**COVERED PORCH w/
ALT. 2ND FLOOR
OPTION**

Russell D
Genesis Series
V.03.03.00.00

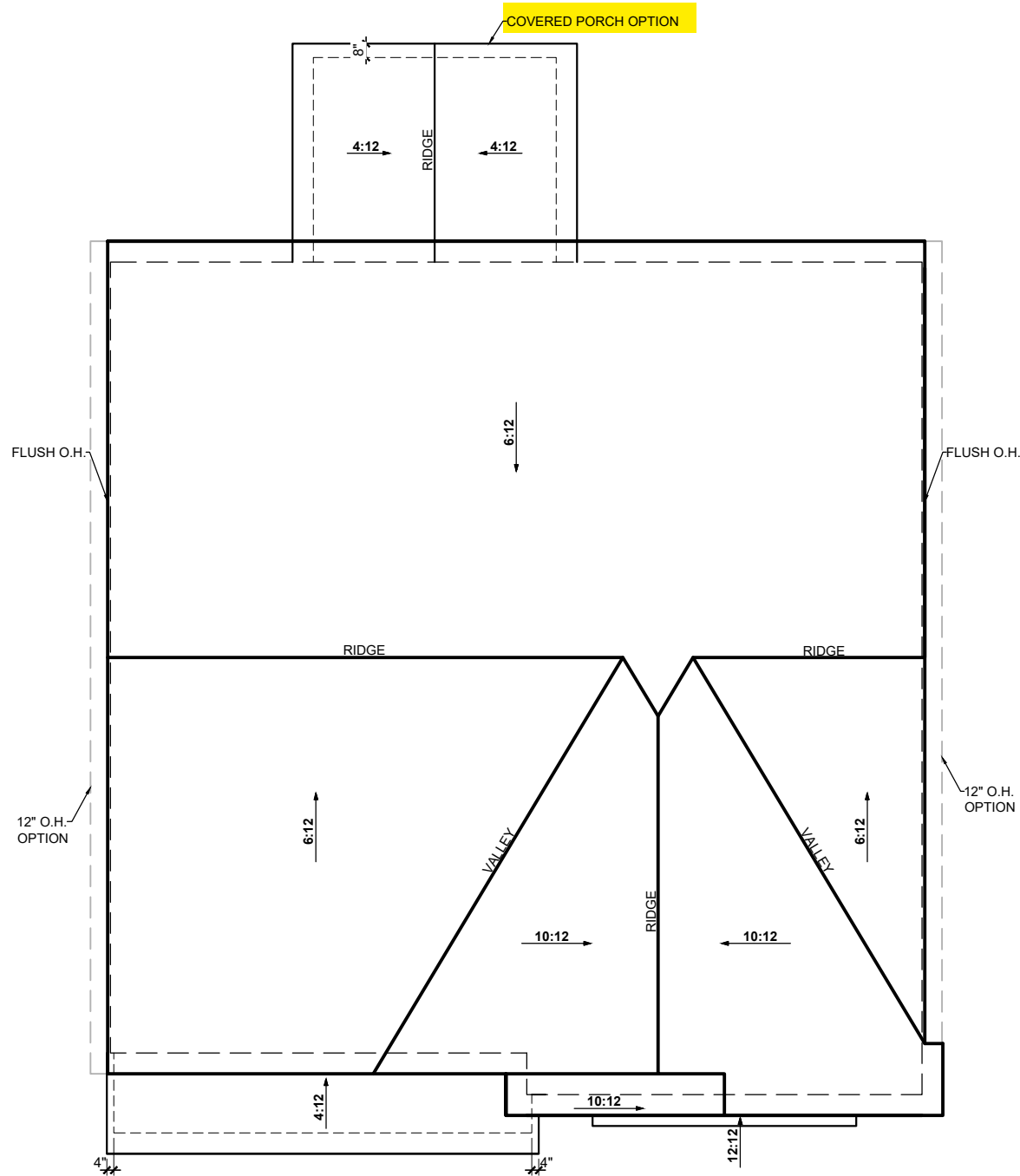
Features:

Drawn By: AM
Rev By: CJA /AW EB
Date: 5/16/2025

A3



3rd Car Garage Option
1/8" = 1'-0"



ROOF PLAN
1/8" = 1'-0"

- 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



D Square Footages:

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Russell D
Genesis Series
v.03.03.00.00

ROOF INFORMATION SUMMARY

MAIN ROOF-

Base House:	
Attic Square Footage.....	1520 sf
Flat Soffit.....	56 lf
Ridge.....	49 lf

AREA(S) NOT AFFECTING MAIN ROOF-

Front Porch:	
Attic Square Footage.....	76 sf
Flat Soffit.....	20 lf
Roof to Wall Ridge.....	19 lf

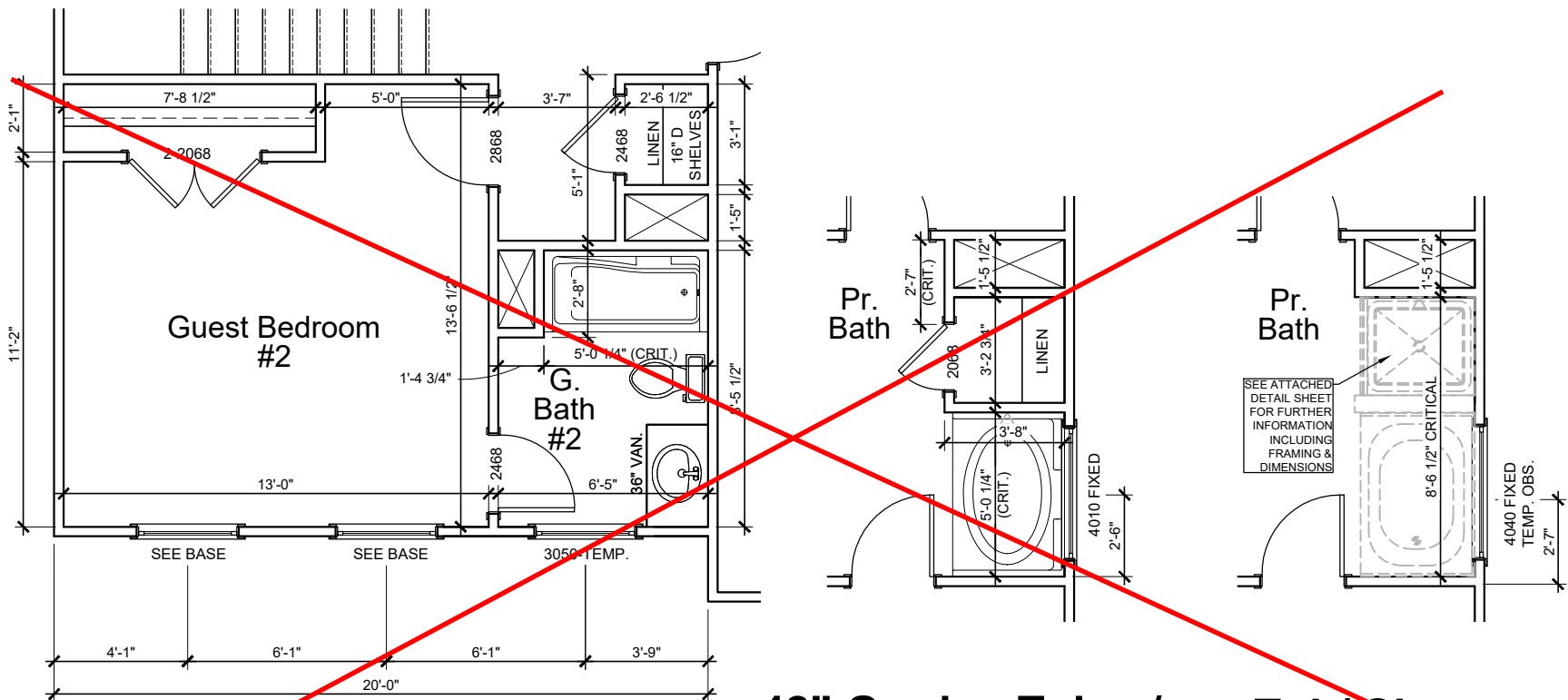
Rear Covered Porch Option:	
Attic Square Footage.....	115 sf
Flat Soffit.....	20 lf
Ridge.....	9 lf

3rd Car Garage Option :	
Attic Square Footage.....	220 sf
Flat Soffit.....	22 lf
Ridge.....	10 lf

Features:

Drawn By: AM
Rev By: CJA AW EB
Date: 5/16/2025

A-R 1



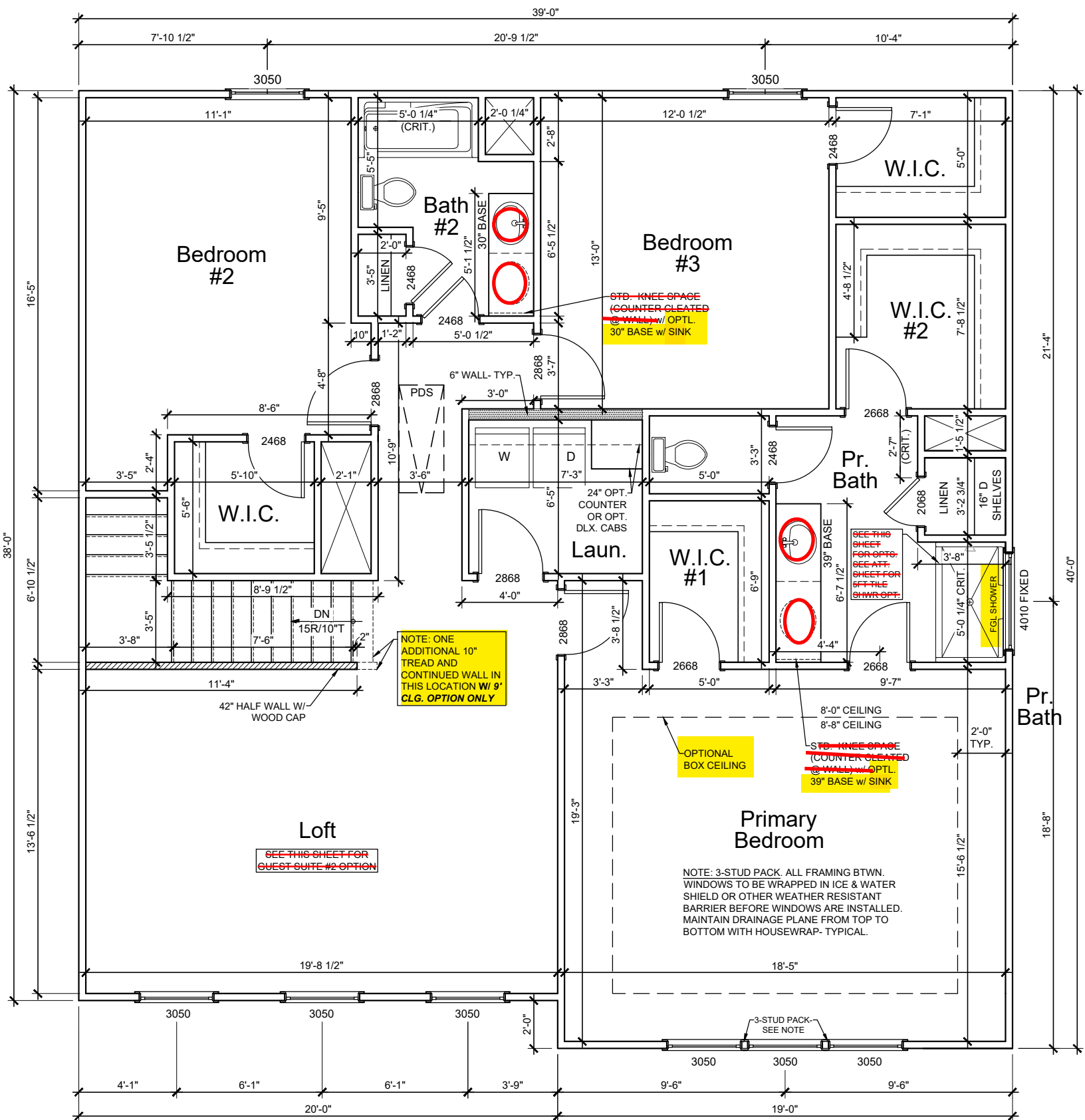
Guest Suite #2 Option
3/16" = 1'-0"
(*NOT AVAILABLE w/ ALT. 2ND FLOOR OPTIONS)

**42" Garden Tub w/
Shower Walls Opt.**
3/16" = 1'-0"

@ PR. BATH

**Tub/ Shower
Option**

FOR ORIENTATION PURPOSES ONLY
@ PRIMARY BATH @ 2ND FLOOR



SECOND FLOOR
3/16" = 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.

B2

Features:	
Drawn By: AM	Rev By: CJA AW EB
Date: 5/16/2025	

Russell D
Genesis Series
v.03.03.00.00

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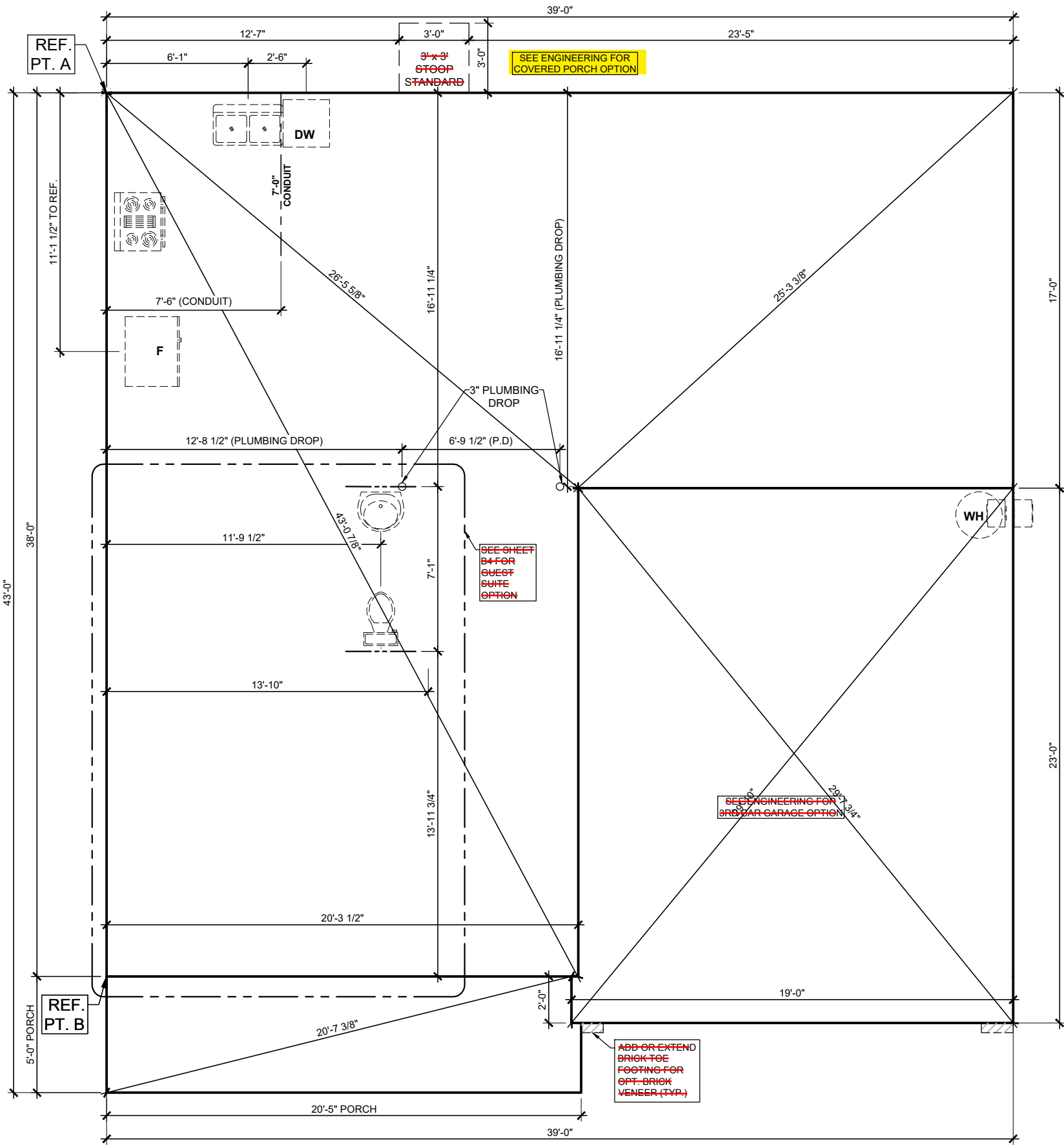
D Square Footages:



- 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

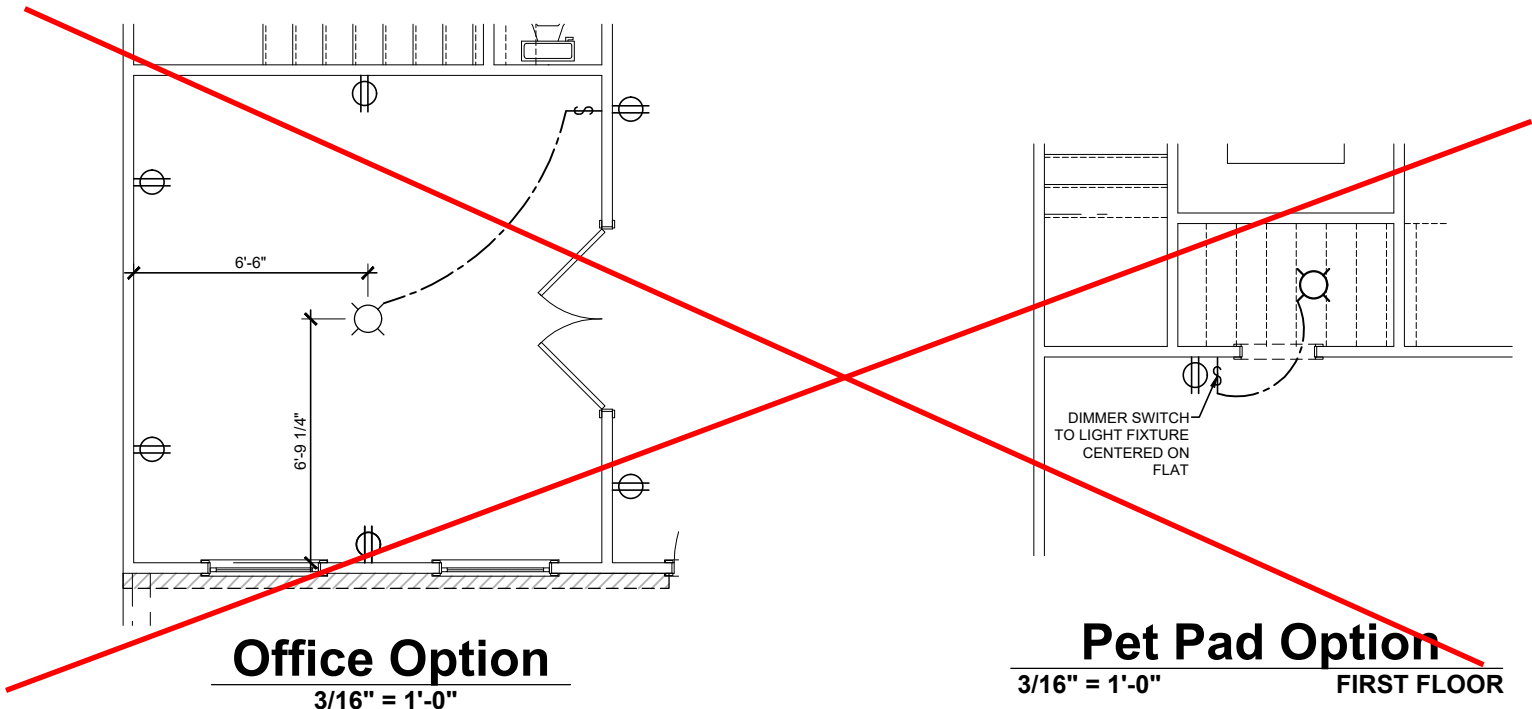
Drawn By: AM
Rev By: CJA AW EB
Date: 5/16/2025

Russell D
Genesis Series
v.03.03.00.00

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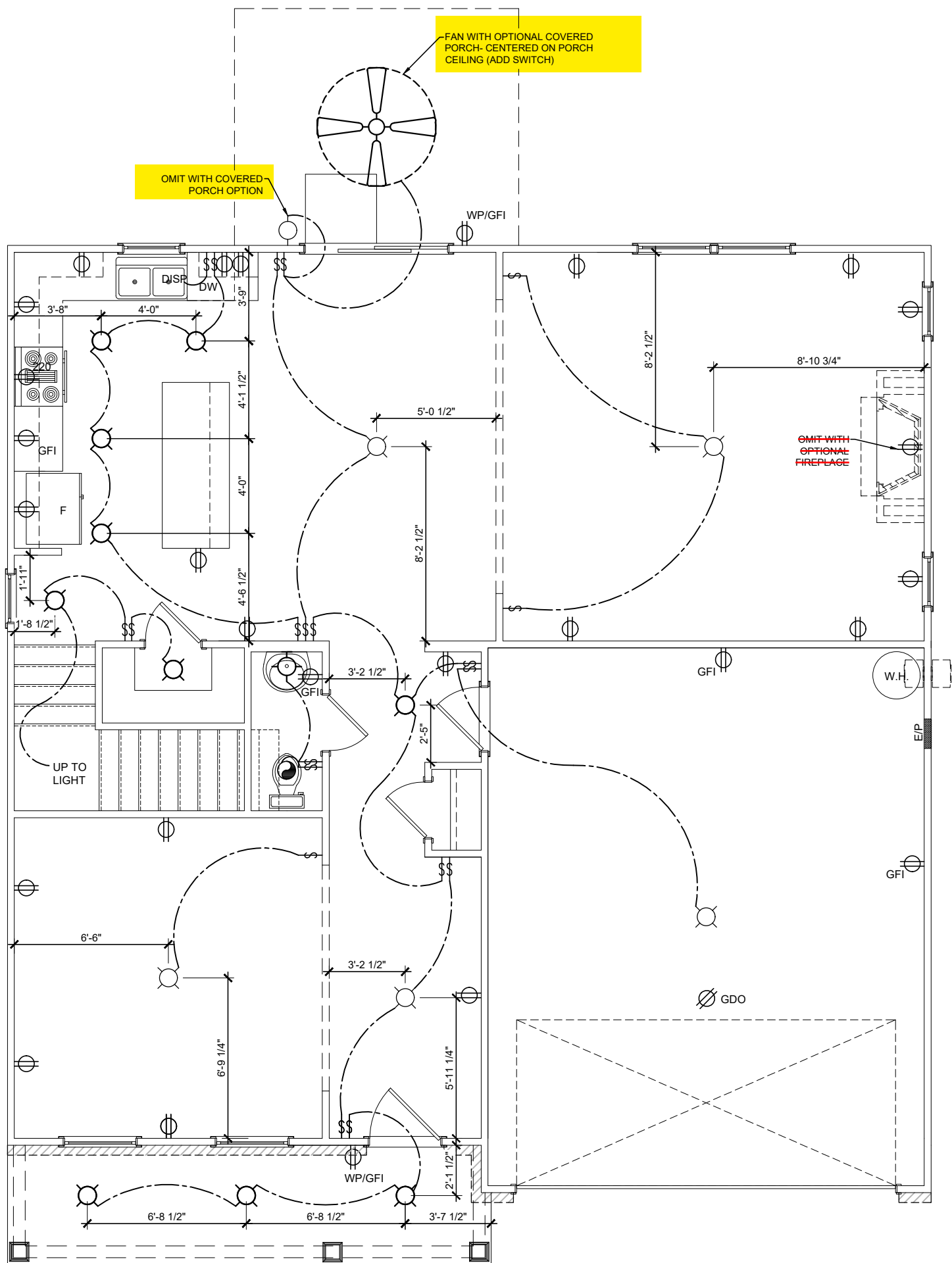
D Square Footages:



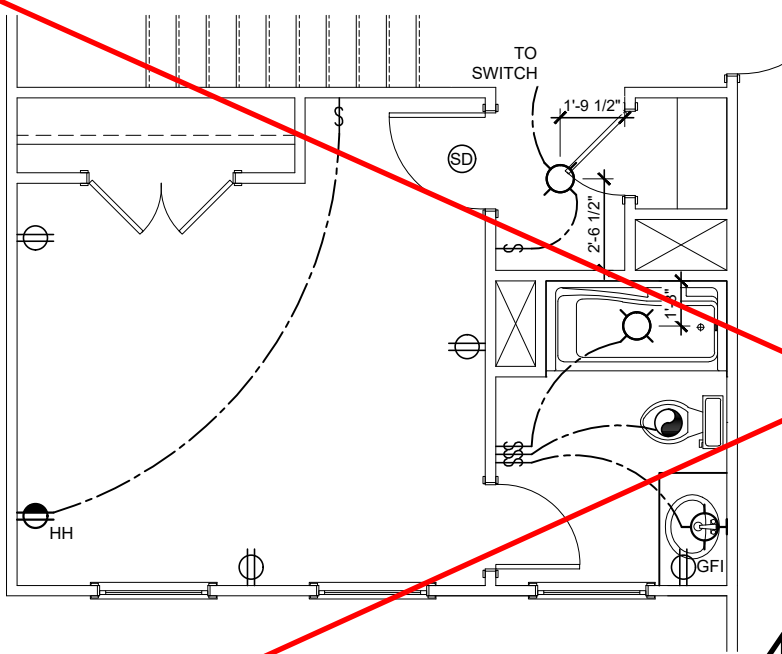


Office Option
3/16" = 1'-0"

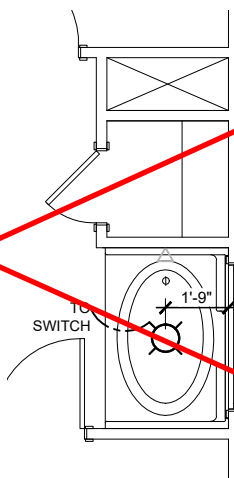
Pet Pad Option
3/16" = 1'-0" **FIRST FLOOR**



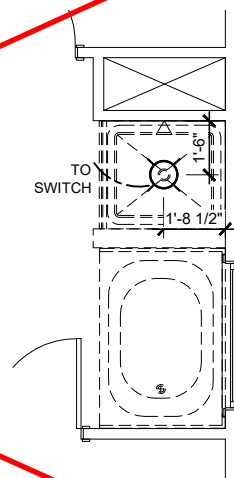
FIRST FLOOR - ELECTRICAL
3/16" = 1'-0"



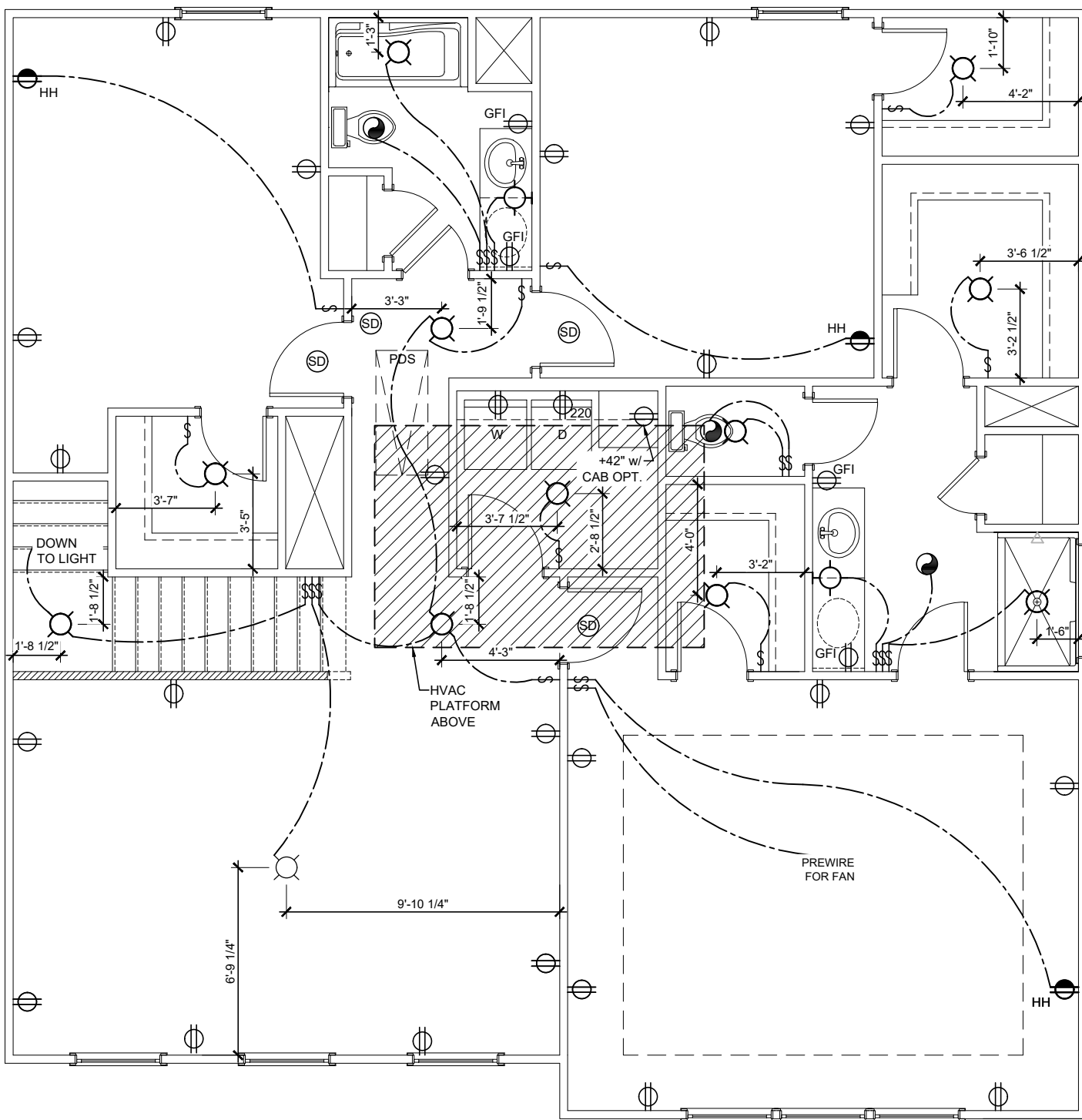
Guest Suite #2 Option
3/16" = 1'-0"
(*NOT AVAILABLE w/ ALT. 2ND FLOOR OPTIONS)



**42" Garden Tub w/
Shower Walls Opt.**
3/16" = 1'-0" @ PR. BATH



**Tub/ Shower
Option**
FOR ORIENTATION PURPOSES ONLY
@ PRIMARY BATH @ 2ND FLOOR



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

E2

Features:

Drawn By: AM

Rev By:
CJA AW EB

Date: 5/16/2025

Russell D

Genesis Series
v.03.03.00.00

1st Floor.....	1089
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Front Porch.....	101
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3rd Car Garage Option.....	220

D Square Footages:



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/RIM OR BLK'G	(4) TOENAILS/ (3)END NAILS	(4) TOENAILS/ (4)END NAILS*
STUD TO PLATE	TOENAILS @ 6" o.c.	TOENAILS @ 4" o.c.*
RIM TO TOP PLATE	(3) TOENAILS EA. END	(3) TOENAILS EA. END*
BLK'G, BTWN. JOISTS TO TOP PL.	NAILS @ 16" o.c.	NAILS @ 16" o.c.
DOUBLE STUD	NAILS @ 12" o.c.	NAILS @ 8" o.c.
DOUBLE TOP PLATE	(12) NAILS IN LAPPED AREA (24" MIN.)	(15) NAILS IN LAPPED AREA (24" MIN.)
DOUBLE TOP PLATE LAP SPLICE	(3) NAILS	(3) NAILS
TOP PLATE LAP @ CORNERS & INTERSECTING WALLS	(4) NAILS	(4) NAILS
ADJACENT FULL-HEIGHT STUD TO END OF HEADER	(4) NAILS	(4) NAILS
RAFTER/TRUSS TO TOP PLATE	(4) TOENAILS + (1) SIMPSON H25T	(4) TOENAILS + (1) SIMPSON H25T
GAB. END TRUSS TO DBL. TOP PL.	TOENAILS @ 8" o.c.	TOENAILS @ 6" o.c.
R.T. w/ HEEL HT. 4 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"
6'-0"	3 FT. MAX	L3"x3"x 1/4"
	12 FT. MAX	L4"x3"x 1/4"
8'-0"	20 FT. MAX	L5"x3 1/2"x 3/8"
	3 FT. MAX	L4"x4"x 1/4" *
12'-0"	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"
16'-0"	2 FT. MAX	L7"x4"x 1/2" **
	3 FT. MAX	L8"x4"x 1/2" **

ALL LINTELS:
- SHALL SUPPORT 2 3/8" - 3 1/2" VENEER w/ 40 psf MAXIMUM WEIGHT.
-> 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 L4x3 1/4".
** FOR 3 1/2" VENEER ONLY. SEE PLAN FOR VENEER SUPPORT IF VENEER < 3 1/2" THICK.

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.W.A.) -AND/OR- SHEAR WALL ABOVE (S.W.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 (STB2-50100 - 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.:
fc = FOUNDATION WALLS (SEE FOUNDATION DETAILS)
2500 psi: FOOTINGS @ INTERIOR SLABS ON GRADE
3,000 psi: GARAGE & EXTERIOR SLABS ON GRADE
fy = 60,000 psi
- TYPICAL REINFORCEMENT DETAILS: PROVIDE 3" MIN. CLEAR COVER WHERE CAST AGAINST EARTH, 1 1/2" MIN. CLEAR COVER AGAINST FORMS. LAP ALL REBAR 48 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 95% 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 TERMITES PROTECTION MEETING THE REQUIREMENTS OF R318 OR LOCAL CODE REQUIREMENTS
- CRAWLSPACE/BASEMENT WALLS SHALL BE BRACED, PRIOR TO BACKFILLING, BY EITHER ADEQUATE TEMPORARY BRACING OR INSTALLATION OF FIRST FLOOR DECK.
- CRAWLSPACE/BASEMENT WALL DESIGN IS BASED ON BACKFILL SOIL CLASSIFICATIONS OF GM, GP, SM, SP (30 pcfr) OR GM, GC, SM, SM-SC, ML (45 pcfr). IF SC, ML-CL, OR CL (60 pcfr) SOIL IS ENCOUNTERED ON SITE, CONTACT MULHERN & KULP FOR FURTHER EVALUATION OF FOUNDATION DESIGN.
- CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C40 WITH A MIN. COMPRESSIVE STRENGTH OF 1400 psi (Fm=1500 psi). MORTAR SHALL BE ASTM C210, TYPE S. CMU DESIGN PER TMS 402/602.
- CMU FOUNDATION WALLS SHALL HAVE 'DUR-O-WALL' HORIZONTAL JOINT REINFORCEMENT (OR EQUAL) - 1 GA. MINIMUM @ 16" O.C.
- PROVIDE 2x8 x 16" LONG P.T. PLATE ON TOP OF ALL CRAWL SPACE PIERS. TOP COURSE OF PIERS SHALL BE SOLID MASONRY OR FILLED SOLID.
- PROVIDE 2x6 P.T. PLATE ON INTERIOR CRAWL 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.

EXTERIOR & SHEAR WALL SHEATHING SPECIFICATIONS

THIS MODEL HAS BEEN DESIGNED TO RESIST LATERAL FORCES RESULTING FROM:
115 MPH WIND IN 2018 NCSBG:RC
(115 MPH WIND SPEED IN ASCE 7-10 WIND MAP, PER NCSBG R301.2.1.1) EXP. B & SEISMIC CAT. A/B.
THE ENGINEERED DESIGN WAS COMPLETED PER 2015 IBC (SECTION 1604) & ASCE 7-10, AS PERMITTED BY R301.1.3 OF THE 2018 NCSBG.

DESIGN WIND UPLIFT LOADS HAVE BEEN CALCULATED UTILIZING ASCE 7-10 (ACCEPTED ENGINEERING PRACTICE) AS ALLOWED PER 2018 NCSBG: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: 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 FASTENING.
- ALL EXT. WALLS SHALL BE CONTINUOUSLY SHEATHED AND ARE CONSIDERED SHEAR WALLS.

3" O.C. EDGE NAILING

- 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

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 NET 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 1 (OR APPROVED EQUAL) WITH TONGUE AND GROOVE EDGES. FASTEN TO FRAMING MEMBERS w/ GLUE AND:
 - 2 1/4" 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 1 (OR APPROVED EQUAL). FASTEN TO FRAMING MEMBERS - w/ 2 1/4" 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 H25A 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 H25A CLIPS OR APPR. EQUAL (TYP. U.N.O. ON PLANS)
- TRUSS ALL VALLEY SETS. FASTEN TO TRUSS BELOW w/ SIMPSON H25A 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 WTC A & TP's BCS1 1 "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 1' 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:
A. ROOF TRUSSES:
1/4" DEAD LOAD
B. FLOOR TRUSSES, ATTIC TRUSSES, & I-JOISTS:
1/8" DEAD LOAD
C. 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. BEAM	BALLOON-FRAMED	• HDR. INTERIOR	HEADER
• BOT. BOTTOM		• J. JACK STUD	JACK STUD
• BRG. BEARING		• J.T. JACK TRUSS	JACK TRUSS
• B.W.A. BEARING WALL ABOVE		• K. KING STUD	KING STUD
• CANT'D CANTILEVERED		• MANUF. MANUFACTURER	MANUFACTURER
• CONC. CONCRETE		• MAX. MAXIMUM	MAXIMUM
• CONT. CONTINUOUS		• MIN. MINIMUM	MINIMUM
• DBL. DOUBLE		• N.T.S. NOT TO SCALE	NOT TO SCALE
• DIM. DIMENSION		• OPT. OPTIONAL	OPTIONAL
• D.J. DECK JOISTS		• P.A. POST ABOVE	POST ABOVE
• EA. EACH		• P.T. PRESSURE TREATED	PRESSURE TREATED
• EQ. EQUAL		• PKT. POCKET	POCKET
• EXT. EXTERIOR		• REQ'D REQUIRED	REQUIRED
• E.W. EACH WAY		• R.T. ROOF TRUSS	ROOF TRUSS
• F.T. FLOOR TRUSS		• SCHED. SCHEDULE	SCHEDULE
• FND. FOUNDATION		• SIM. SIMILAR	SIMILAR
• FTG. FOOTING		• STRUCT. STRUCTURAL	STRUCTURAL
• G.T. GIRDER TRUSS		• T.O.F. TOP OF FOOTING	TOP OF FOOTING
• HD. HOLDOWN		• TYP. TYPICAL	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/SAVN) (ADD'L 10 PSF AT TILE)

WIND S115 MPH, EXPOSURE B

SEISMIC DESIGN CATEGORY A/B

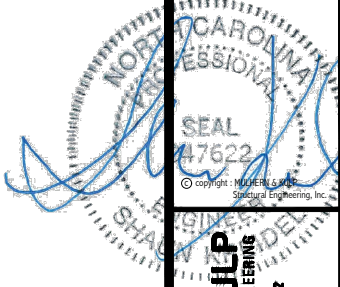
GENERAL FRAMING

- 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. SFP/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 (SFP) 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 @ 24" 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=2.0x10⁶ psi
- ENGINEERED LUMBER POSTS TO MEET OR EXCEED THE FOLLOWING:
 - 'LVL' - Fb=2400 psi; Fc11=2500 psi; E=1.8x10⁶ 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" TRUSLOK 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/SCREEN 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" TRUSLOK 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 SCREEN FASTENING AT BOTH FACES (ONE SIDE ONLY FOR TRUSLOK SCREWS). LOCATE TOP AND BOTTOM FASTENERS 2" FROM EDGE. A SOLID 1" 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 TABLE 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. SFP OR GYP, "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

3/29/25

seal:



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING



M&K project number:

192-19039

project mgr:

SMK

drawn by:

JPP

issue date:

12-20-19

REVISIONS:

date:

initial:

ARCH: v.01.00.00.00



GENERAL STRUCTURAL NOTES

RUSSELL

WIND SPEED < 115 MPH NORTH CAROLINA

sheet:

SO.0



MULHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING

3655 Brookside Parkway, Suite 250 ▶ Alpharetta, GA 30022
p 770-777-0074 ▶ mulhernkulp.com

June 19, 2025

Benito Carreon

MUNGO HOMES

2521 Schieffelin Rd #116
Apex NC 27502

CAMBRIDGE, LANGDON, LEANDER LEE AND OLIVET COMMUNITIES

Russell Model (192-19039), Telfair Model (192-17017), McDowell Model (192-17012),
Meriwether (192-17013), Rutherford Model (192-17016), & Turner Model (192-19040)

PORTAL FRAME EVALUATION (120 MPH MAX WIND SPEED)

M+K Project #: 192-25000

References

Structural drawings, provided by Mulhern + Kulp

Benito:

Pursuant to your request, we have prepared this letter to address concerns with regard to portal frame requirements for the above referenced models being built in the above mentioned communities. The structural plans specify that portal frames are to be constructed where indicated on plan with a 2'-3" maximum pony wall height atop the portal frame header. In addition (2) Simpson CS16 strap ties are to be fastened from the portal frame jack studs to the pony wall studs above. It has been reported in the field that a few portal frames have been constructed with pony walls exceeding the plan specified maximum height. Each portal frame exceeding the 2'-3" maximum pony wall height requires additional reinforcement.

To provide additional reinforcement at 2x4 stud framed portal frames, (1) additional Simpson CS16 strap shall be installed adjacent to each pair of existing/plan specified straps at the inside face of wall for a total of (3) straps on each side of the opening. The additional strap shall have the same length and fastening requirements as the straps specified in the portal frame detail. Where not already present, studs above and below the header shall be added and fastened to the existing stud packs for strap installation. For 2x6 stud framed portal frames, no additional strapping is required. Please note, this applies to portal frames with a maximum wall height from top of foundation to top of double top plate less than or equal to 12'-0".

Please feel free to call if you have any questions.

Respectfully,

MULHERN & KULP STRUCTURAL ENGINEERING, INC.

Matthew Fowler,

Project Engineer I

Shaun Kreidel, P.E.

Associate Owner & Atlanta Office Director



Signature + Seal 06/19/2025



MULHERN+KULP

RESIDENTIAL STRUCTURAL ENGINEERING

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June 6, 2025

Damon Banfield

MUNGO HOMES

447 Western Lane
Irmo, SC 29063

NON-BEARING INTERIOR WALL STUD SPACING REQUIREMENTS

M+K Project #: 192-25000

Reference

Structural Plans, prepared by Mulhern & Kulp

Damon,

Pursuant to your request, we have prepared this letter to address non-bearing interior wall stud spacing requirements for structural plans designed by Mulhern + Kulp for Mungo Homes. Sheet S0.0 of the structural plans may specify that all non-bearing interior stud walls be constructed with 2x studs at 16" o.c. (maximum). You have requested if non-bearing interior stud walls could be spaced at 24" o.c.

All non-bearing interior stud walls are permitted to be constructed at 24" o.c. (maximum). Please note, this does not include interior shear walls, shear walls are to be constructed at 16" o.c. (maximum) unless noted otherwise on plan.

Please feel free to call if you have any questions.

Respectfully,

MULHERN & KULP STRUCTURAL ENGINEERING, INC.

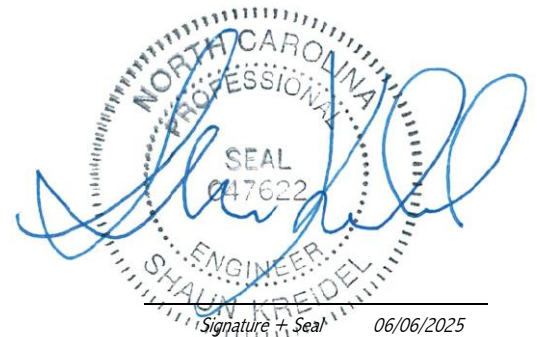
NC Firm License #: C-3825

Matthew Fowler

Project Engineer

Shaun Kreidel, P.E.

Associate Owner + Atlanta Office Director



INSTALL (8) #10x2½" STRONG-DRIVE SD SCREWS TO SIDE OF THE BEAM

MIN. 3¼" INSIDE COLUMN DIAMETER

SIMPSON CMST4 STRAP

SIMPSON HD3B w/ (2) ¾" Ø STRAP BOLTS w/ THD501200H w/ 10" EMBEDMENT INTO SLAB

4¾" MIN. END DISTANCE TO ANCHOR

5/8" MIN. FROM BOTTOM OF BEAM TO CENTER OF LOWEST FASTENER

1¾" EDGE DISTANCE TO ANCHOR

1/2" MIN.

EXTERIOR SHEAR WALL ABOVE

FASTEN SOLE PLATE OF WALL
TO 2x BLOCKING w/ 3"x0.131"
TOENAILS @ 6" O.C.

PROVIDE 2x BLOCKING BETWEEN
TRUSSES, FASTEN w/ (3) 1/4"x0.131"
TOENAILS @ EA. END.

2x6 BLOCKING
BETWEEN TRUSSES
FASTENED TO EA. STUD
w/ (3) 3"x0.131" NAILS
OR (3) 3"x0.120" NAILS

FASTEN SHEATHING TO
BLOCKING w/ 3"x0.131"
NAILS @ 6" O.C.

ROOF TRUSSES (SEE PLAN)

FASTEN SOLE PLATE OF WALL
TO ROOF TRUSS w/ (1) SIMPSON
H2.5A CLIP @ 24" O.C.

FLOOR TRUSSES (SEE PLAN)

BLOCKING IN EVERY TRUSS BAY
FASTENED TO DBL. TOP PLATE w/
3"x0.131" TOENAILS @ 6" O.C. OR
3"x0.120" TOENAILS @ 4" O.C.

ROOF TRUSSES BEAR
● EXTERIOR WALL

FULL DEPTH OSB BLOCKING
BETWEEN ROOF TRUSSES.
FASTEN FLOOR SHEET.
TO BLOCKING w/ 2 1/2"x0.131"
NAILS @ 6" O.C.

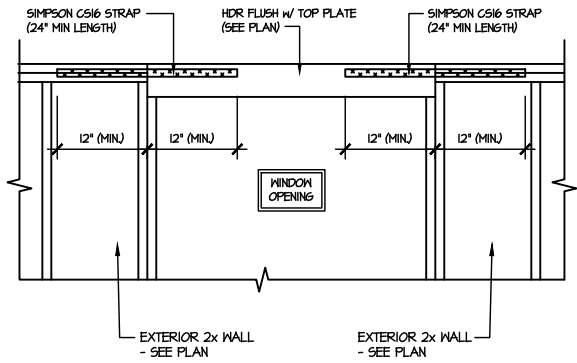
FASTEN ROOF TRUSS TO
TOP PLATE OF WALL WITH
SIMPSON H2.5A CLIP

EXTERIOR SHEAR WALL

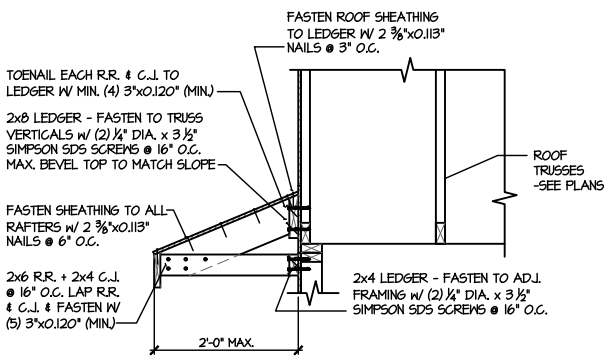
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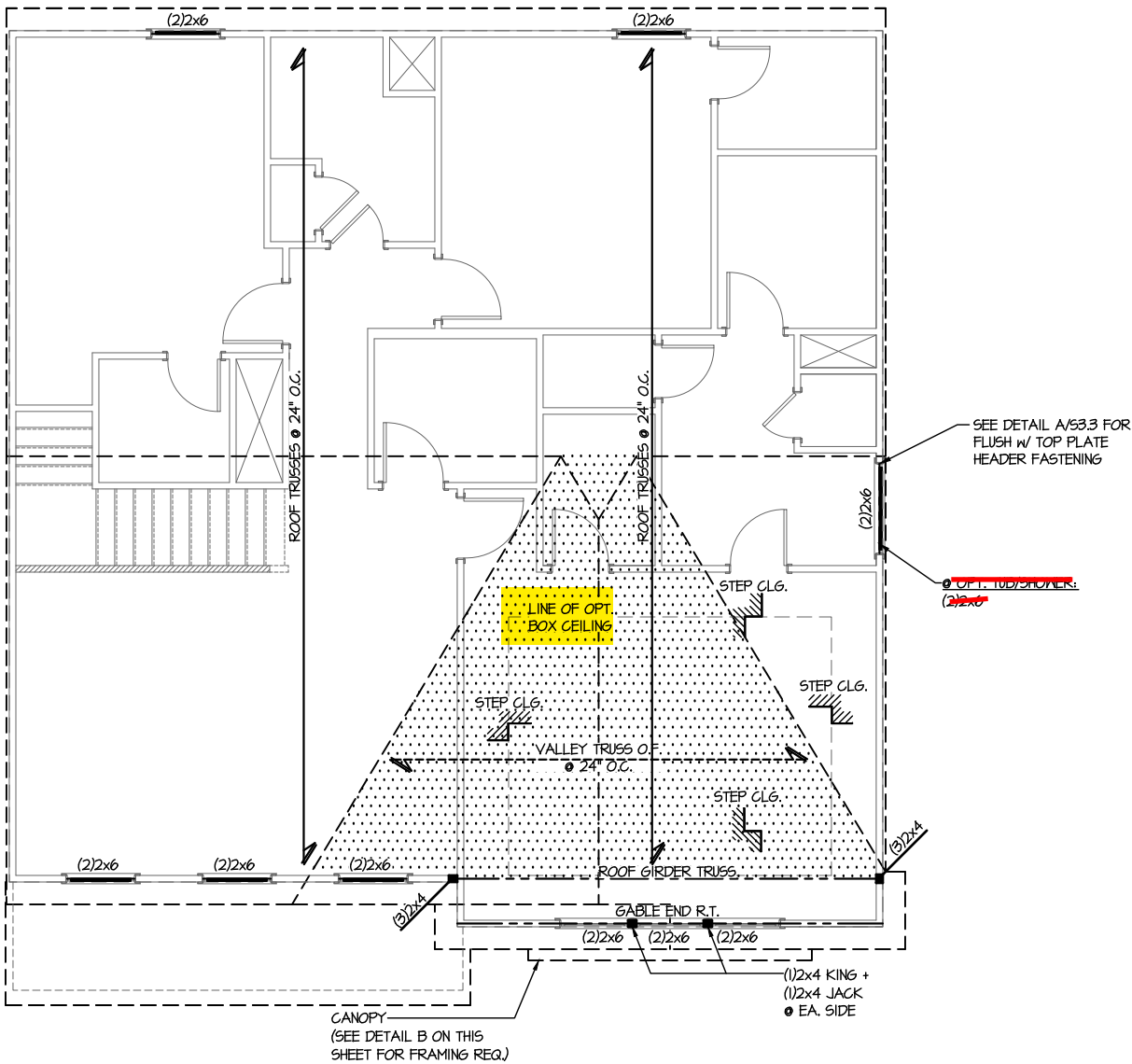
ROOF HARDWARE SCHEDULE ELEVATION D	
QTY	PRODUCT
112	SIMPSON H2.5A CLIP
2	SIMPSON CSI6 (24" STRAP)
HARDWARE NOTES: - ALL NAIL HOLES FILLED - ALL COUNTS ESTIMATED - HARDWARE COUNT DOES NOT INCLUDE TRUSS TO TRUSS CONNECTIONS	



A SHEAR TRANSFER DETAIL
AT UPSET WINDOW
SCALE: 5/8"=1'-0"



B DETAIL @ SHED ROOF
SCALE: 5/8"=1'-0"



ROOF FRAMING PLAN

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

(2ND FLOOR WALLS SHOWN)

ELEV. D

PLAN DESIGNED FOR
8' PLATE HEIGHT

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

S3.3

ROOF FRAMING PLAN

RUSSELL
ELEVATION D

WIND SPEED < 115 MPH NORTH CAROLINA



ARCH:01.00.00.00

date: initial:

REVISIONS:

issue date: 12-20-19

drawn by: JPP

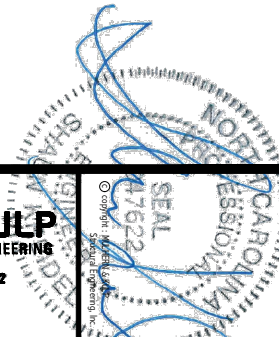
project mgr: SMK

MAK project number: 192-19039



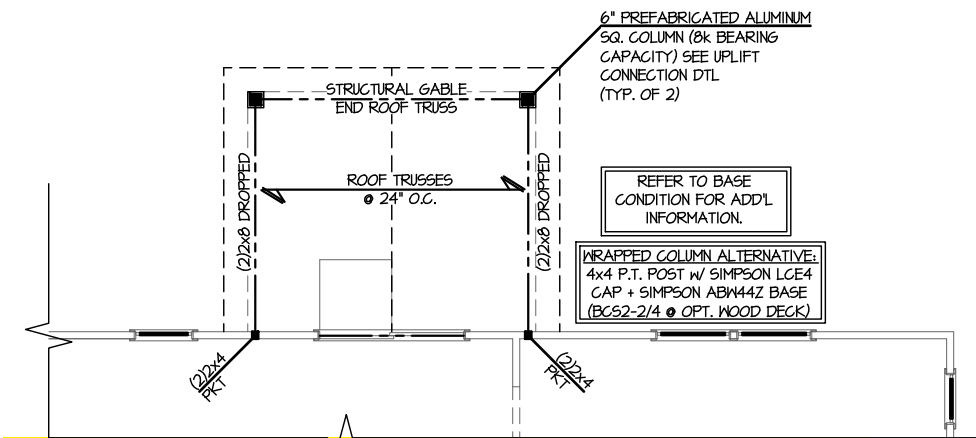
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3/29/25

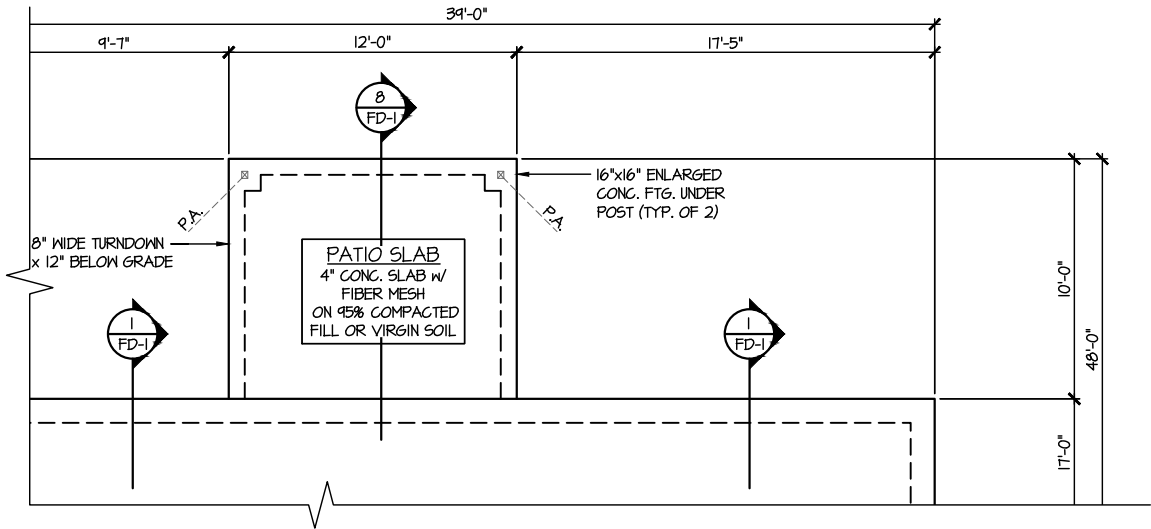
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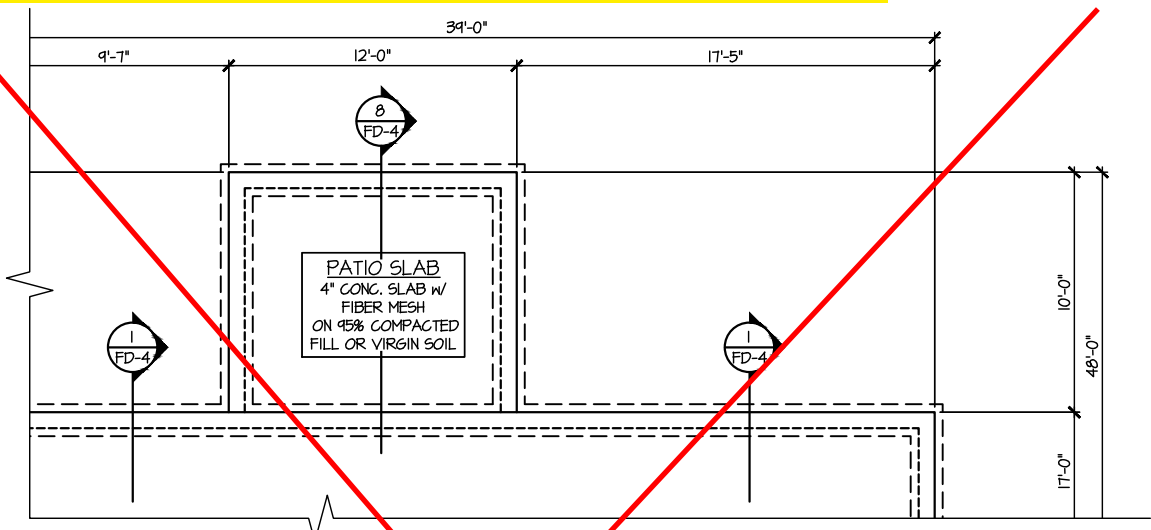
ADD'L. HARDWARE SCHEDULE OPT. COVERED PORCH	
QTY	PRODUCT
12	SIMPSON H25A CLIP
2	SIMPSON HD3B HOLDOWN
2	SIMPSON CM5T14 STRAP

ADD'L. HARDWARE SCHEDULE FOR OPT. WOOD DECK	
QTY	PRODUCT
24	SIMPSON U210 HANGER
3	SIMPSON LCE4 POST CAP
3	SIMPSON ABM44Z POST BASE
4	SIMPSON H8 CLIP
3	SIMPSON BCS2-2/4 POST BASE

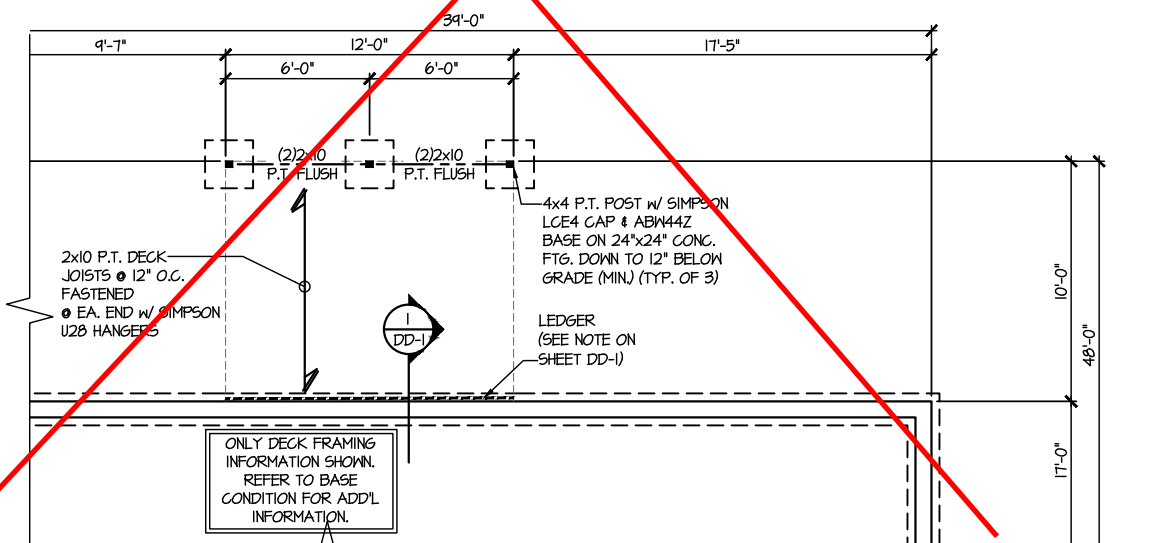
PARTIAL 2ND FLOOR FRAMING PLAN
OPT. COVERED PORCH
SCALE: 1/8"=1'-0"
ALL ELEV. SIM.
(1ST FLOOR WALLS SHOWN)



PARTIAL MONOSLAB FOUNDATION PLAN
OPT. COVERED PORCH
SCALE: 1/8"=1'-0"
ALL ELEV. SIM

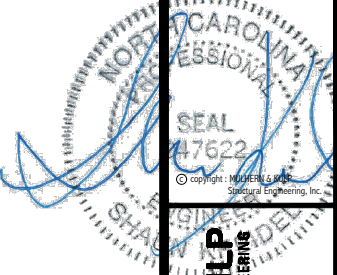


PARTIAL RAISED SLAB FOUNDATION PLAN
OPT. COVERED PORCH
SCALE: 1/8"=1'-0"
ALL ELEV. SIM



PARTIAL CRAWLSPACE FOUNDATION PLAN
OPT. COVERED PORCH
SCALE: 1/8"=1'-0"
ALL ELEV. SIM

REFER TO S-0.0 FOR
TYPICAL STRUCTURAL NOTES
& SCHEDULES



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M&K project number:
192-19039
project mgr: **SMK**
drawn by: **JPP**
issue date: **12-20-19**

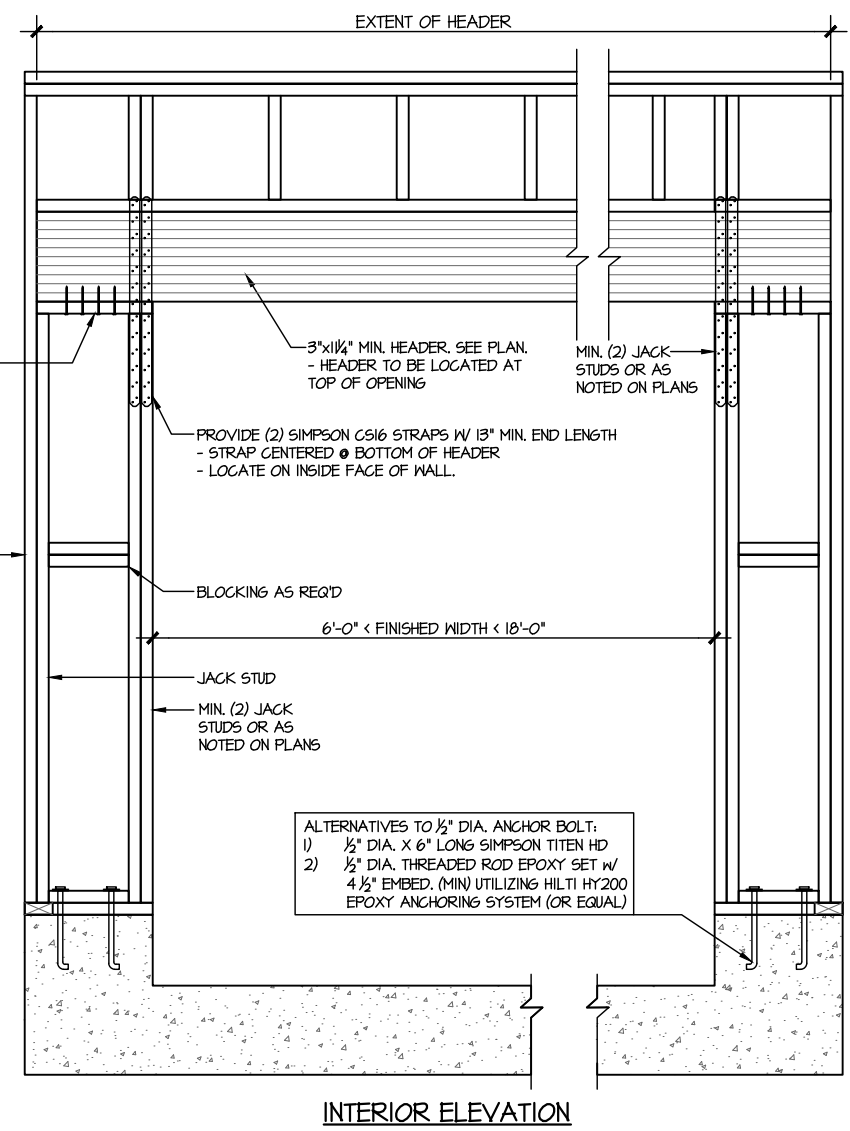
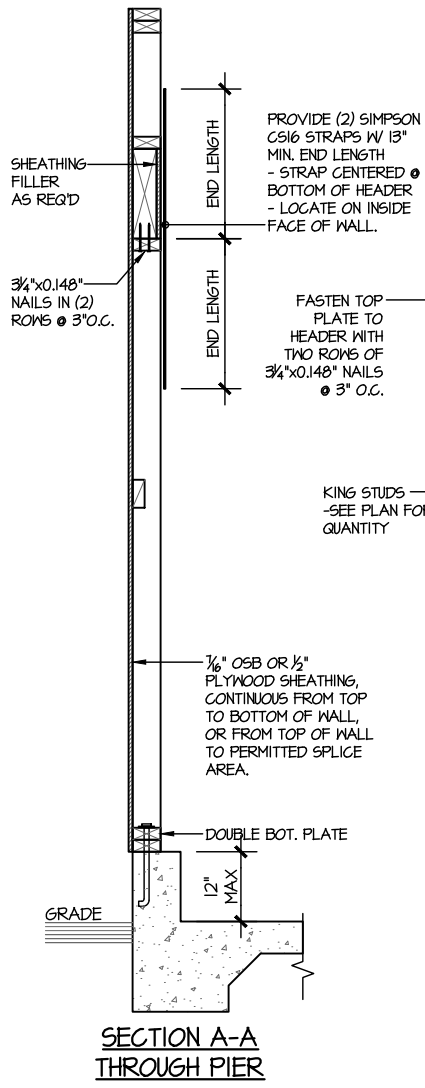
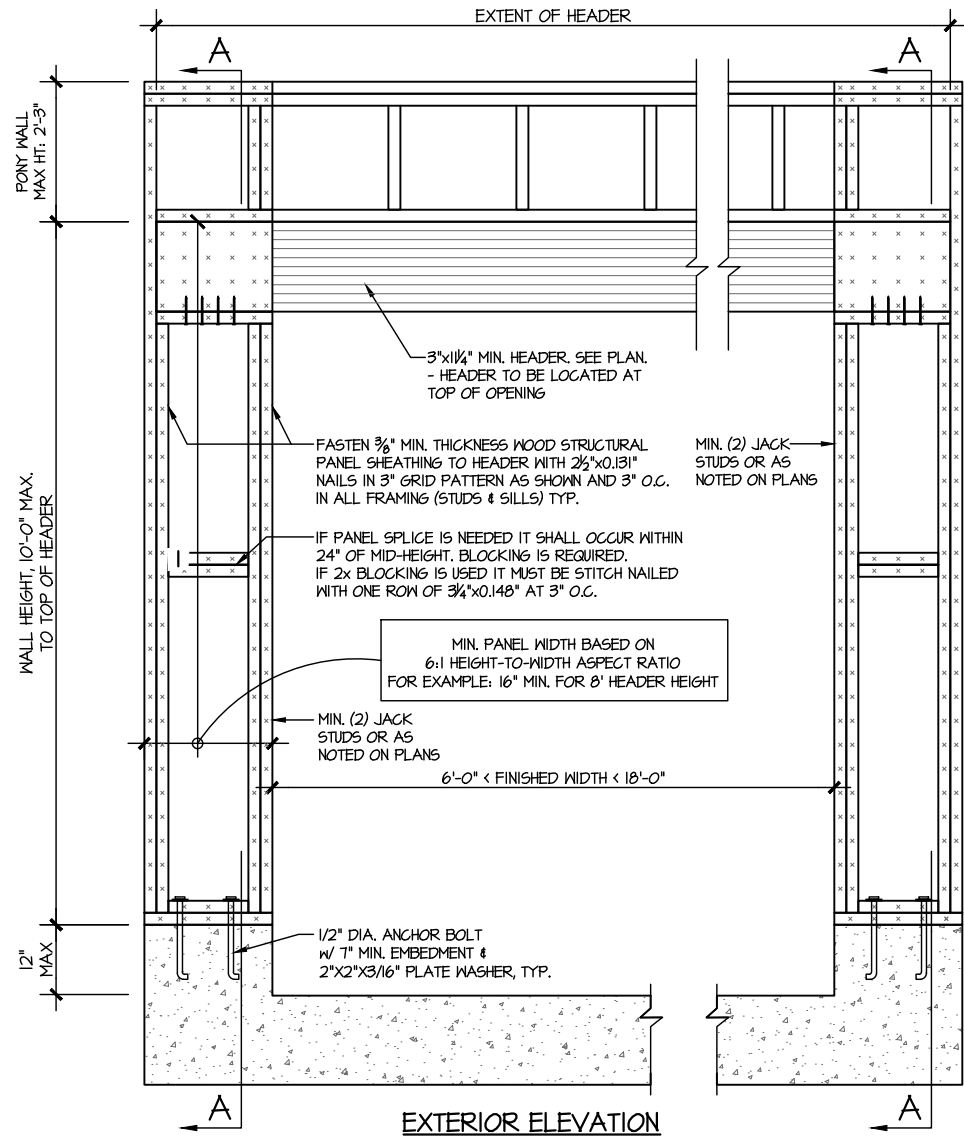
REVISIONS:
date: initial:

ARCH: v.01.00.00.00

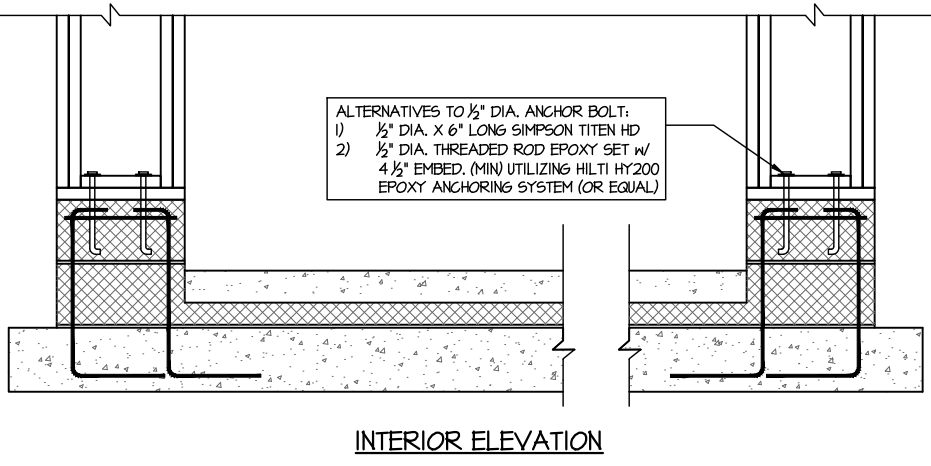
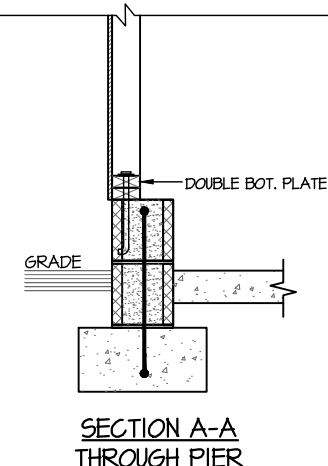
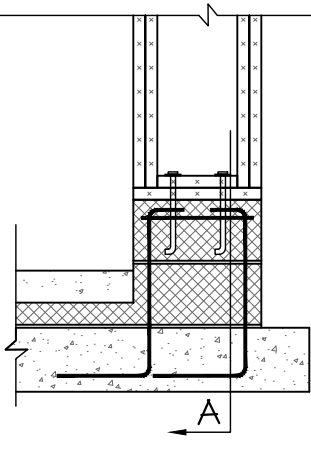
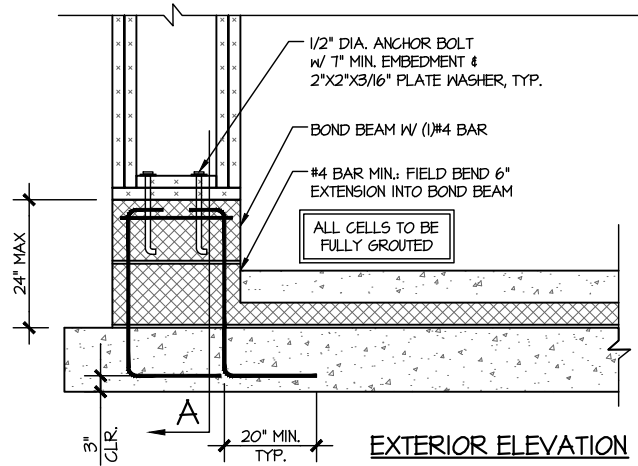
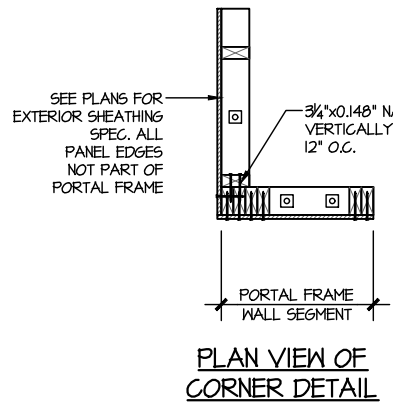


STRUCTURAL DETAILS
RUSSELL
WIND SPEED < 115 MPH NORTH CAROLINA

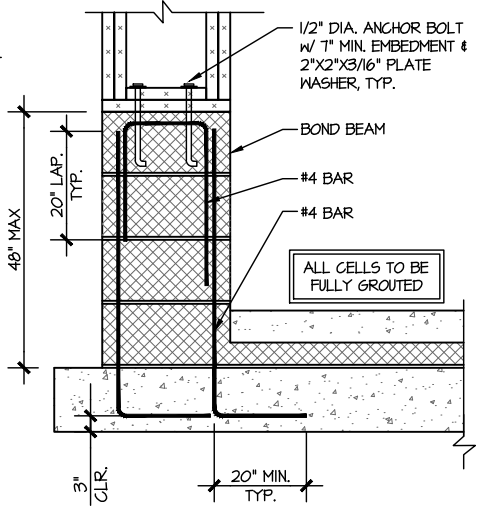
sheet:
SW-1



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



ALTERNATIVES TO 1/2" DIA. ANCHOR BOLT:
1) 1/2" DIA. X 6" LONG SIMPSON TITEN HD
2) 1/2" DIA. THREADED ROD EPOXY SET W/
4 1/2" EMBED. (MIN) UTILIZING HILTI HY200 EPOXY ANCHORING SYSTEM (OR EQUAL)

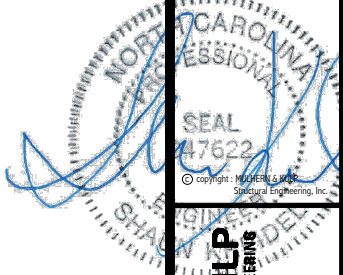


1 PORTAL FRAME DETAIL
SCALE: N.T.S.

BOTH SIDES OF GARAGE DOOR
1 KING STUD & RETURN WALLS

3/29/25

seal:



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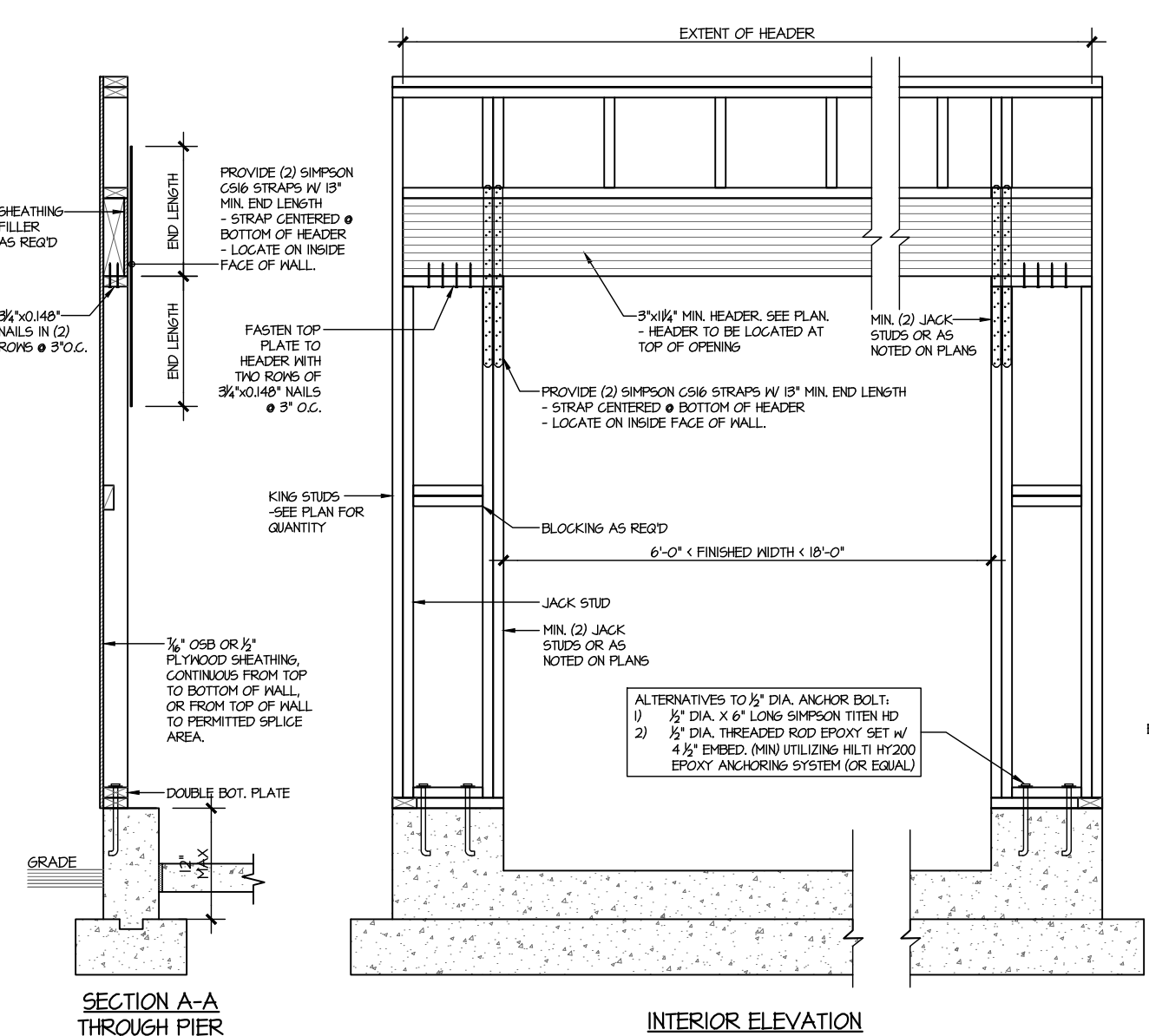
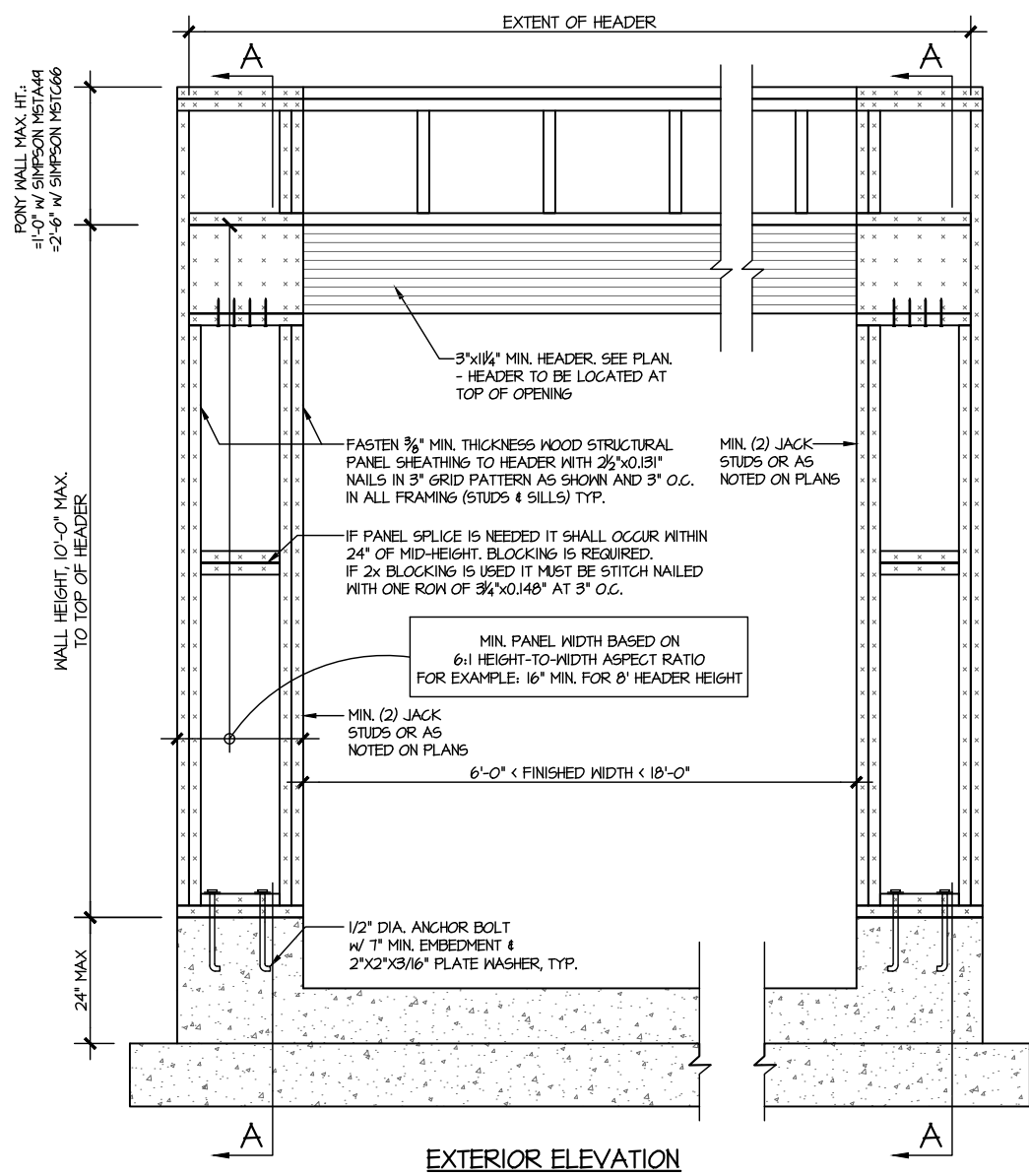
REVISIONS:
date: initial:

ARCH: v.01.00.00.00

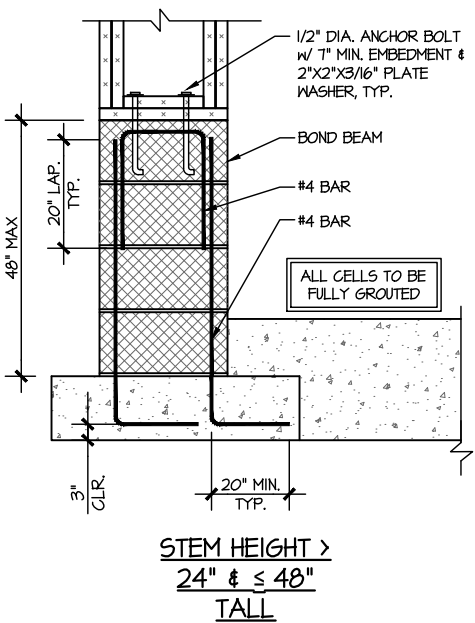
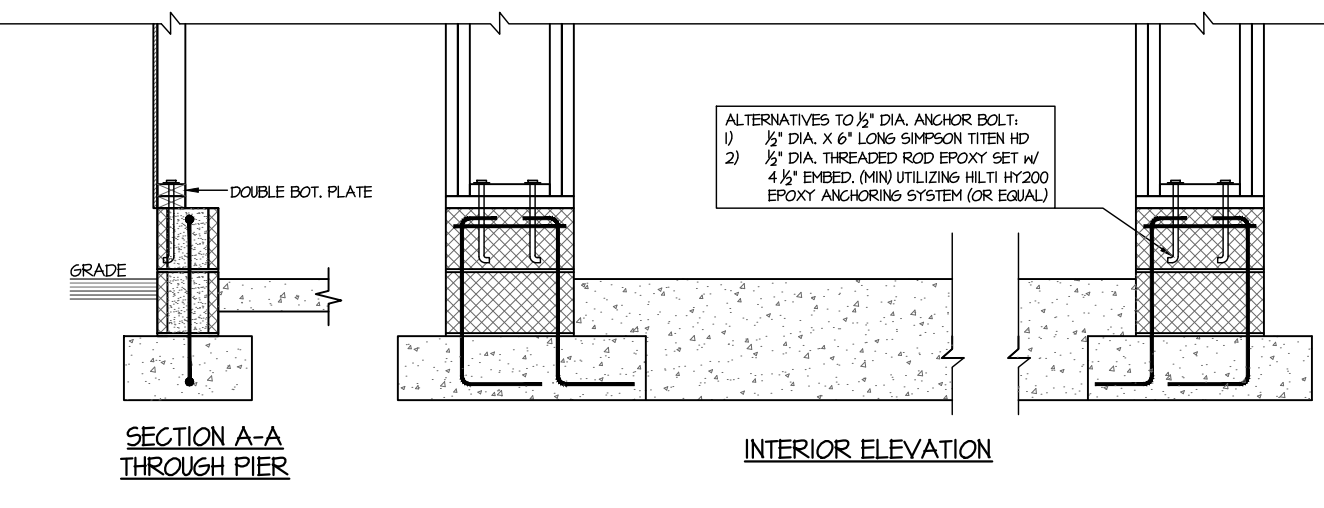
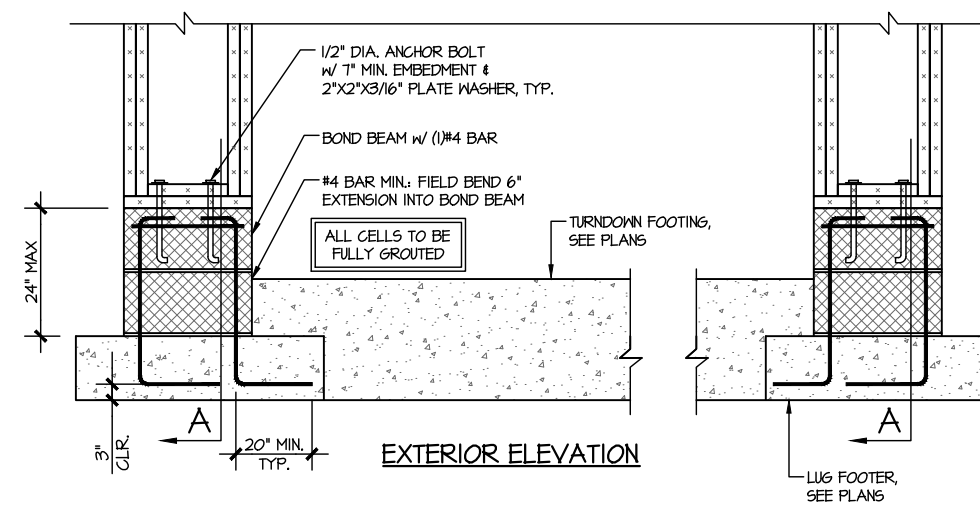
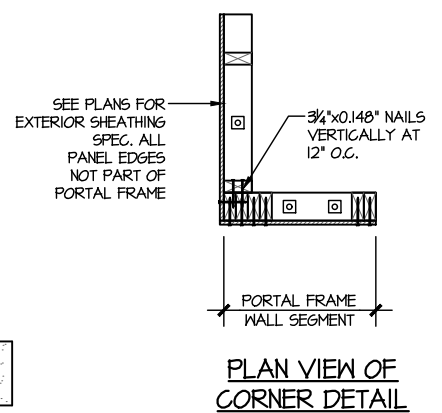


STRUCTURAL DETAILS
RUSSELL
WIND SPEED < 115 MPH NORTH CAROLINA

sheet:
SW-2

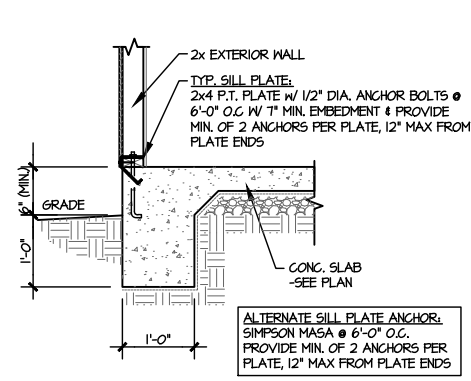


WALL FRAMING SPECIFICATION:
• 2x4 WALL: USE SP/SPF #2 GRADE STUDS (OR BETTER)
• 2x6 WALL: USE SP/SPF #2 GRADE STUDS (OR BETTER)

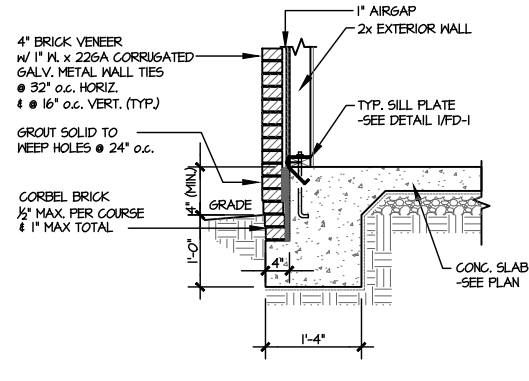


CRAWLSPACE FOUNDATION

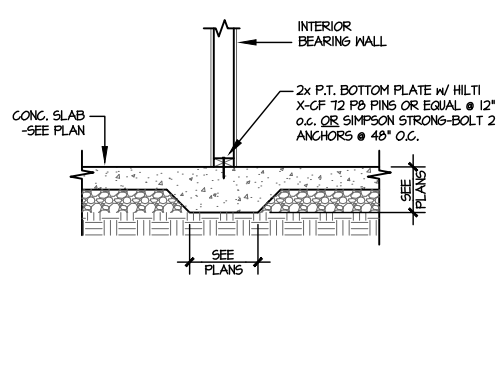
BOTH SIDES OF GARAGE DOOR
1 KING STUD & RETURN WALLS



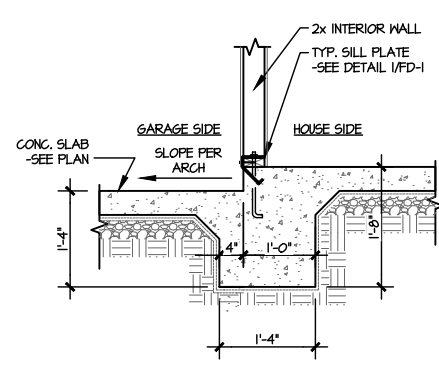
1 TYPICAL TURNDOWN @ EXT. WALL
SCALE: 3/8"=1'-0"



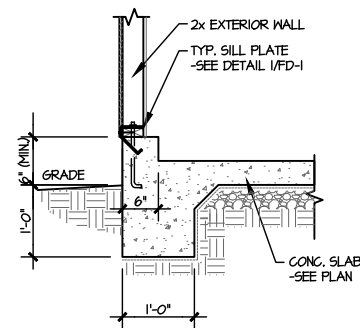
2 TYPICAL TURNDOWN @ EXT. WALL (BRICK)
SCALE: 3/8"=1'-0"



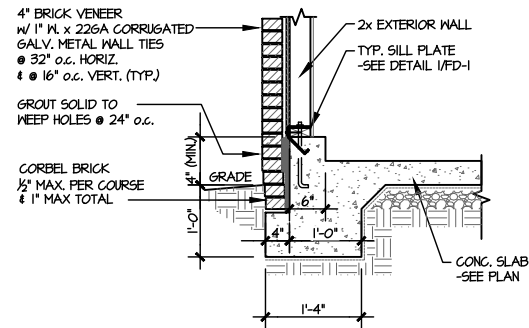
3 TYPICAL THICKENED SLAB @ INTERIOR BEARING WALL
SCALE: 3/8"=1'-0"



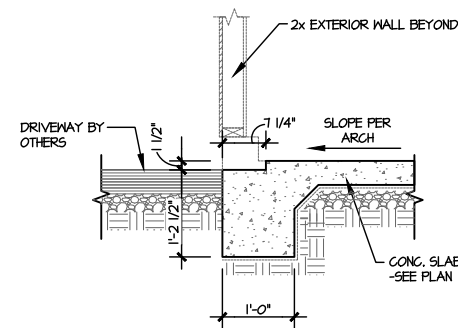
4 TYPICAL INT. FOOTING BETWEEN HOUSE & GARAGE
SCALE: 3/8"=1'-0"



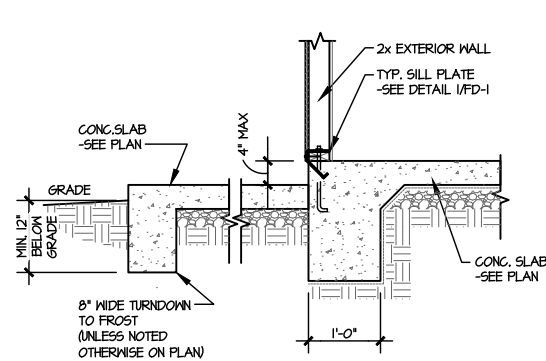
5 TYPICAL TURNDOWN @ EXT. GARAGE WALL
SCALE: 3/8"=1'-0"



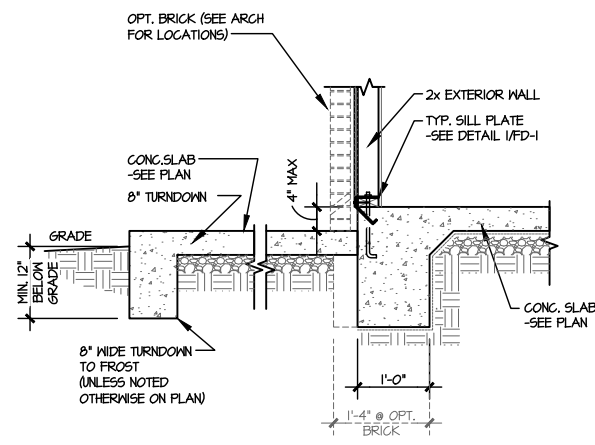
6 TYPICAL TURNDOWN @ EXT. GARAGE WALL (BRICK)
SCALE: 3/8"=1'-0"



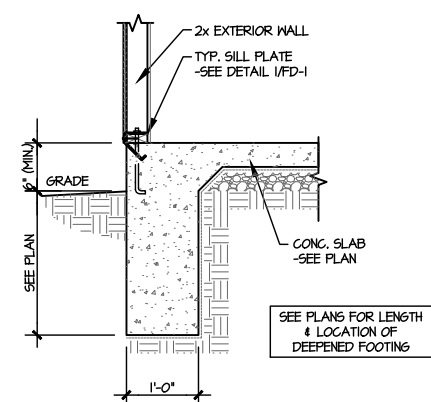
7 GARAGE OPENING
SCALE: 3/8"=1'-0"



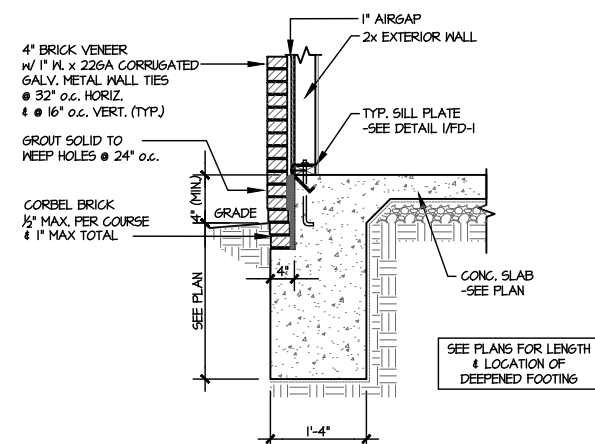
8 TYPICAL TURNDOWN @ PATIO/PORCH
SCALE: 3/8"=1'-0"



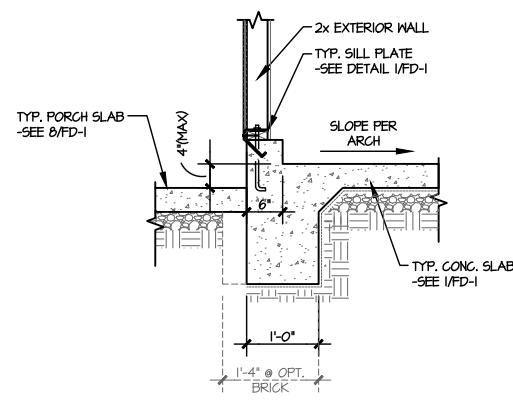
9 TYPICAL TURNDOWN @ PATIO/PORCH (BRICK)
SCALE: 3/8"=1'-0"



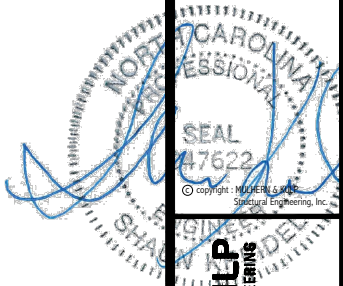
10 TYPICAL TURNDOWN W/ DEEPEMED FTG. @ EXT. WALL
SCALE: 3/8"=1'-0"



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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M&K project number: 192-19039

project mgr: SMK
drawn by: JPP
issue date: 12-20-19

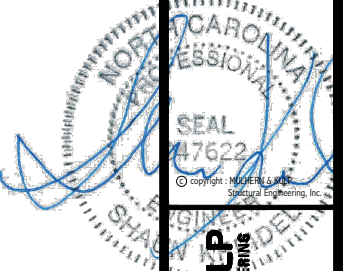
REVISIONS:

date:	initial:

ARCH: v.01.00.00.00



FOUNDATION DETAILS
RUSSELL
WIND SPEED < 115 MPH NORTH CAROLINA



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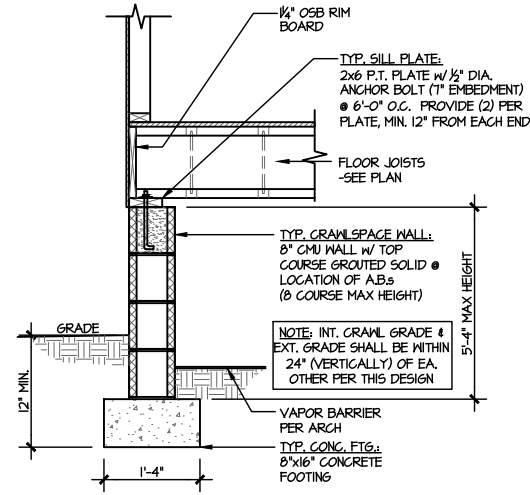
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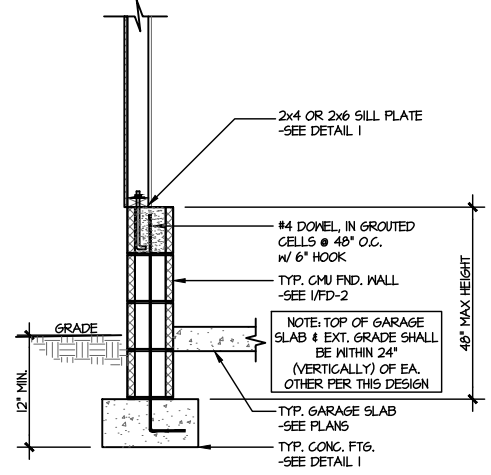
FOUNDATION DETAILS
RUSSELL
WIND SPEED < 115 MPH NORTH CAROLINA

sheet:
FD-2

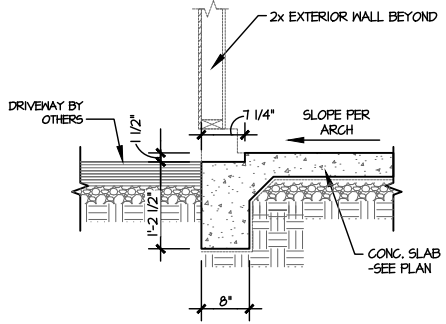


1 TYPICAL CRAWLSPACE FOUNDATION
SCALE: 3/8"=1'-0"

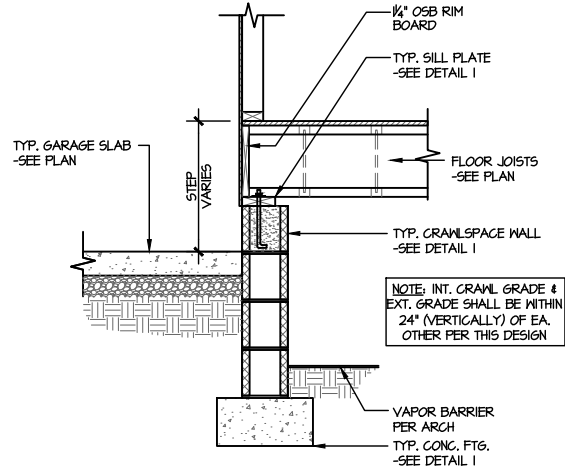
2 NOT USED
SCALE: 3/8"=1'-0"



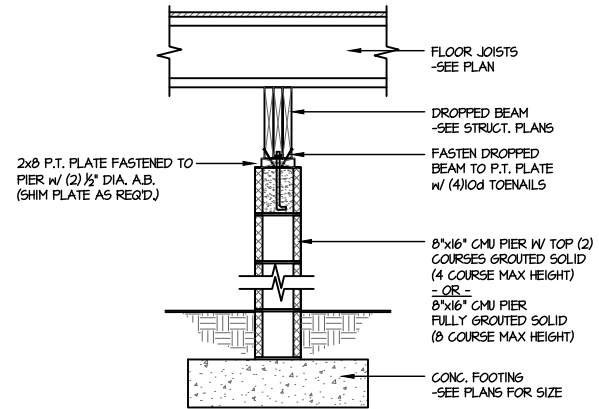
3 TYPICAL PERIMETER FOOTING @ EXTERIOR GARAGE WALL
SCALE: 3/8"=1'-0"



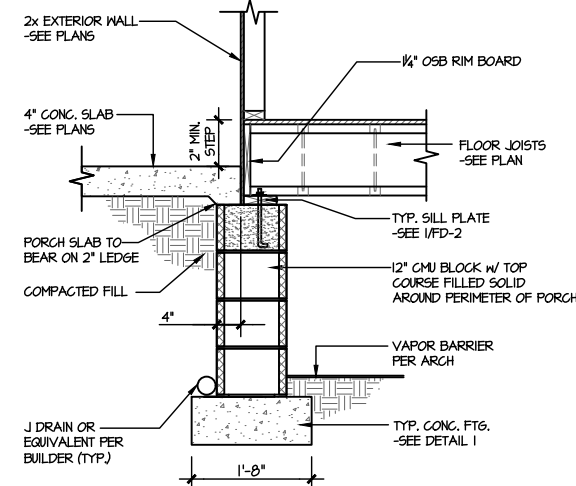
4 TYPICAL TURNDOWN FOOTING AT EXTERIOR GARAGE APRON
SCALE: 3/8"=1'-0"



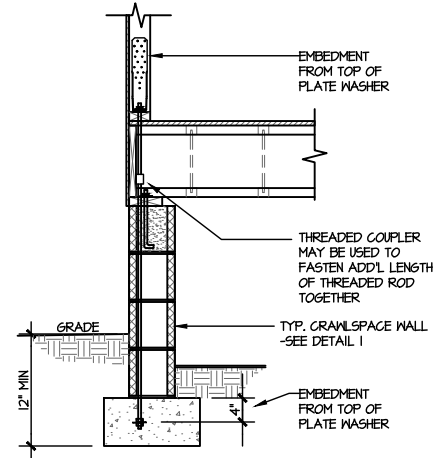
5 TYPICAL CRAWLSPACE FOUNDATION @ INTERIOR GARAGE WALL
SCALE: 3/8"=1'-0"



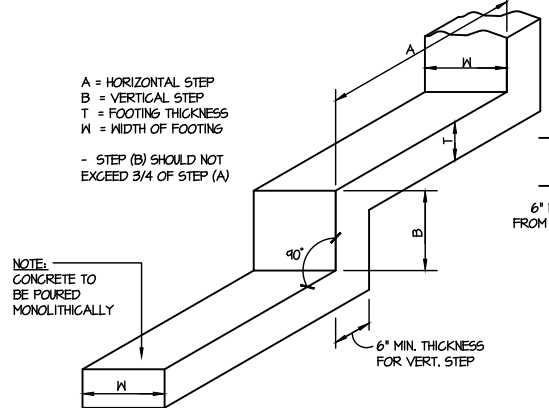
6 TYPICAL CRAWLSPACE FOUNDATION @ INTERIOR PIER
SCALE: 3/8"=1'-0"



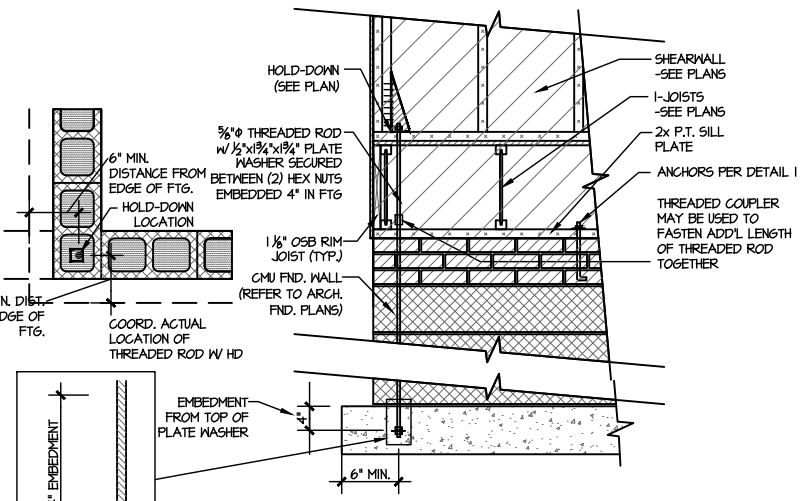
7 TYPICAL CRAWLSPACE FOUNDATION @ PORCH SLAB
SCALE: 3/8"=1'-0"



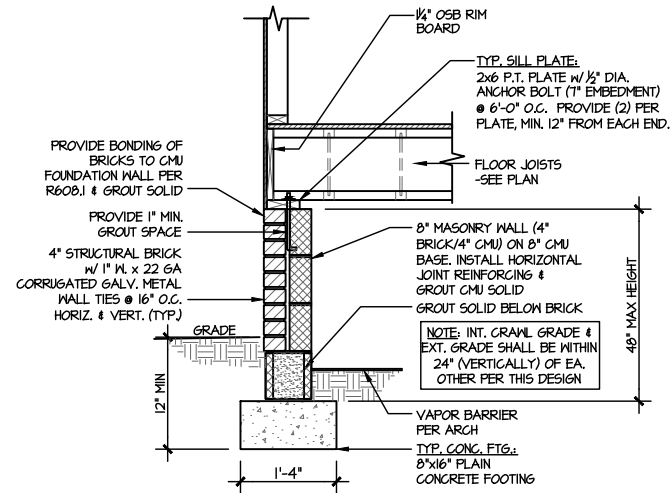
A TYPICAL CRAWLSPACE FOUNDATION HOLD-DOWN INSTALLATION
SCALE: 3/8"=1'-0" W/ STONE VENEER OR SIDING



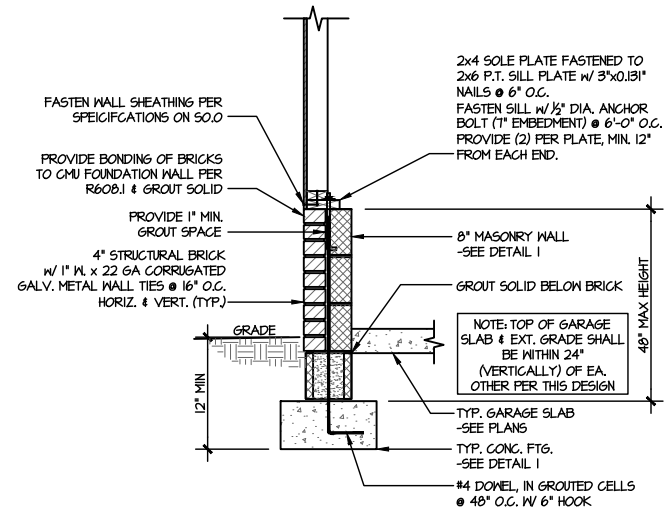
B TYPICAL STEPPED FOOTING DETAIL
SCALE: NTS



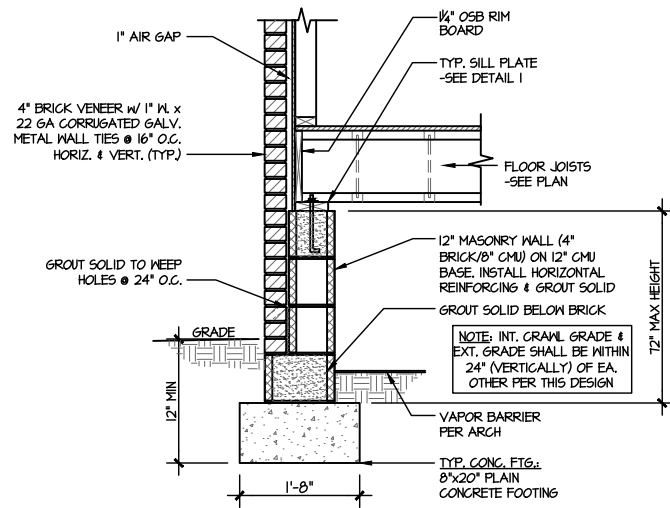
C TYPICAL CMU FOUNDATION HOLD-DOWN INSTALLATION
SCALE: 3/8"=1'-0" (CORNER SHOWN - APPLICABLE TO ALL CONDITIONS)



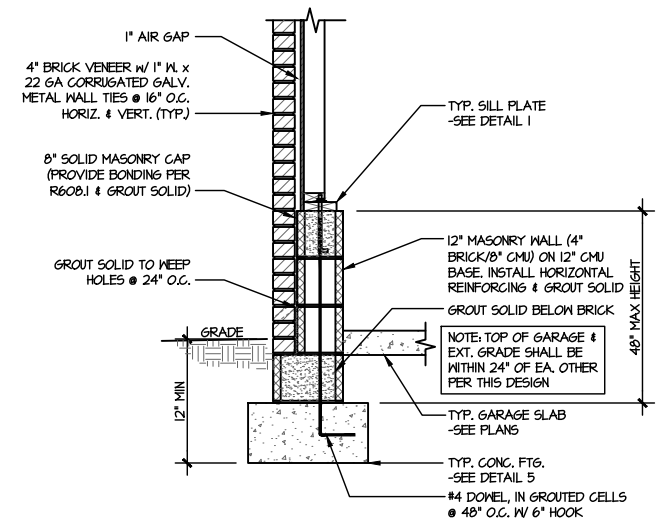
1 TYPICAL CRAWLSPACE FOUNDATION
SCALE: 3/8"=1'-0"
w/ BRICK WATERTABLE



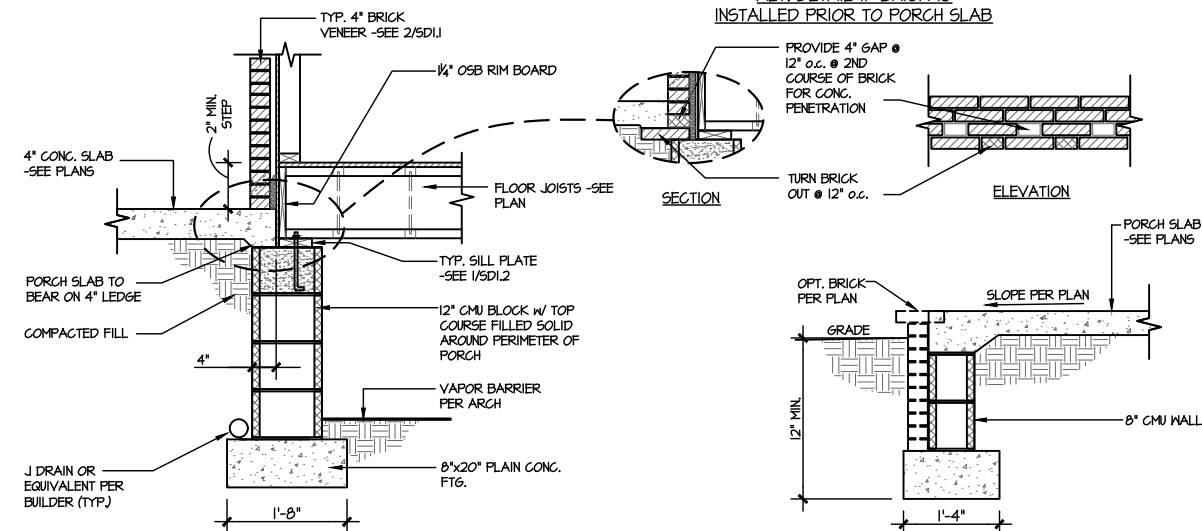
3 TYPICAL CRAWLSPACE FOUNDATION
@ EXTERIOR GARAGE WALL
SCALE: 3/8"=1'-0"
w/ BRICK WATERTABLE



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

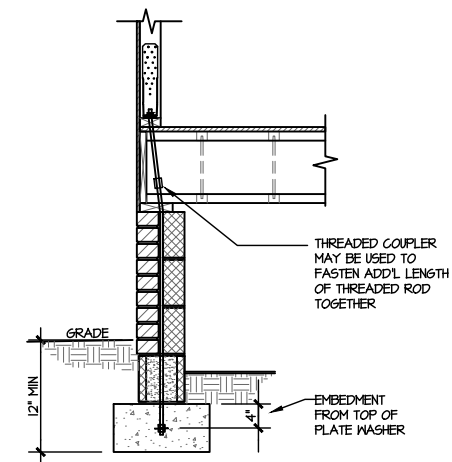


7 TYPICAL CRAWLSPACE FOUNDATION
@ EXTERIOR GARAGE WALL
SCALE: 3/8"=1'-0"
w/ FULL BRICK VENEER

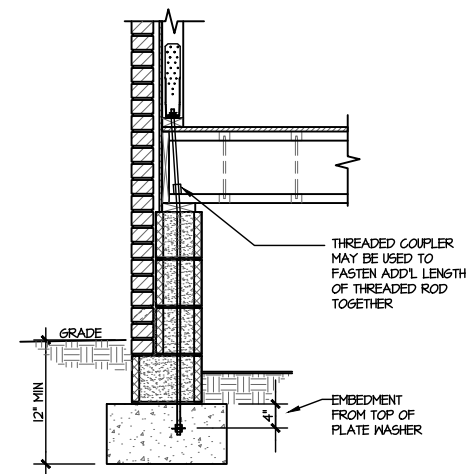


9 TYPICAL CRAWLSPACE FOUNDATION
@ PORCH/PATIO SLAB
SCALE: 3/8"=1'-0"
w/ BRICK VENEER

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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REVISIONS:
date: initial:

ARCH: v.01.00.00.00



FOUNDATION DETAILS
RUSSELL
WIND SPEED < 115 MPH NORTH CAROLINA



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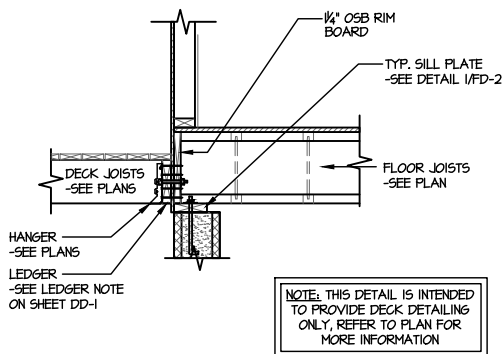


FOUNDATION DETAILS
RUSSELL
WIND SPEED < 115 MPH NORTH CAROLINA

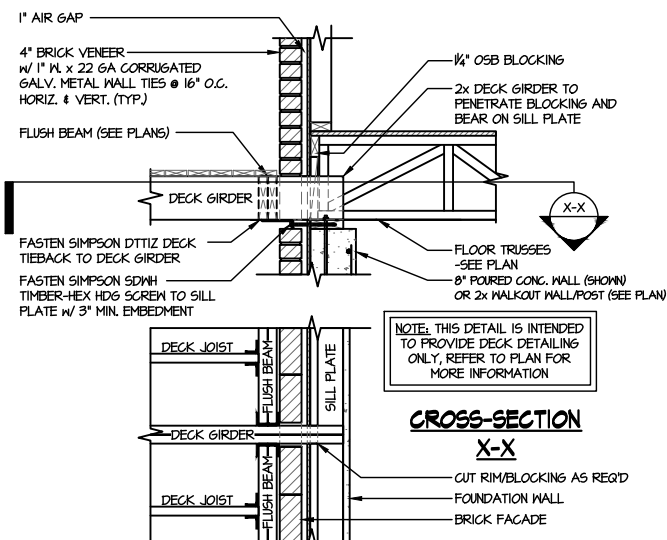
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DD-1

LEDGER NOTE

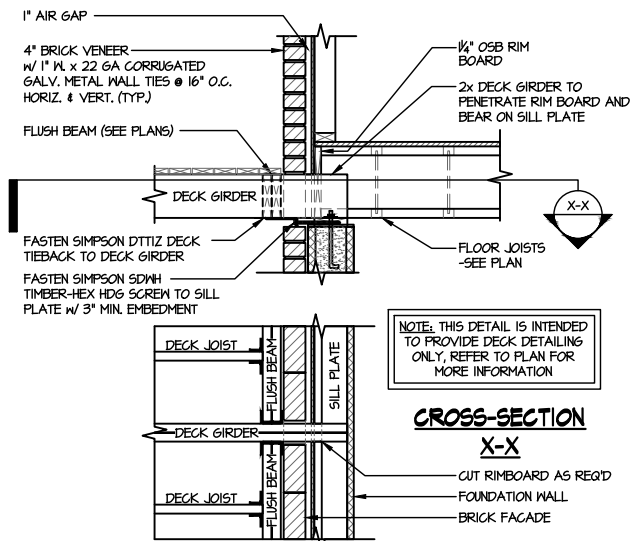
- **LEDGER TO END TRUSS:**
-FASTEN 2x LEDGER (MATCH D.J.) TO END TRUSS VERTICALS w/ (1) 1/2" DIA. THRU BOLT + (4) 2 1/2"x0.135" NAILS @ 16" O.C. PACK OUT END TRUSS AS REQ'D FOR LEDGER FASTENING.
- **LEDGER TO RIMBOARD/BLOCKING:**
-FASTEN 2x LEDGER (MATCH D.J.) TO RIMBOARD/BLOCKING w/ (1) 1/2" DIA. THRU 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 H3 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 SDS SCREENS @ 16" O.C.
- **NOT APPLICABLE AT BRICK CONDITIONS**



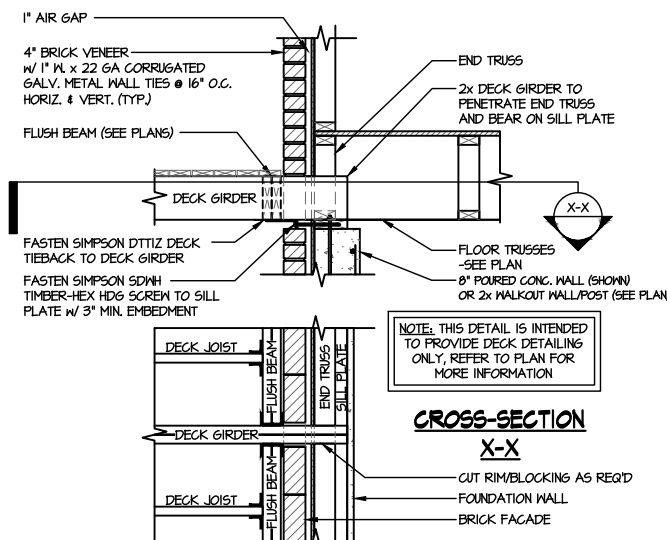
1 TYPICAL DECK CONNECTION
@ CRAWLSPACE
SCALE: 3/8"=1'-0"



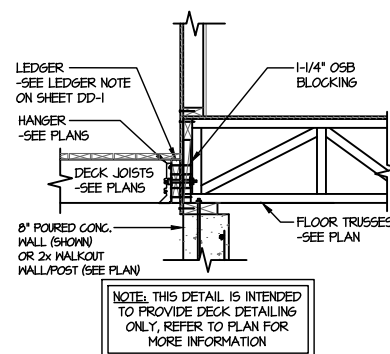
2 TYPICAL DECK CONNECTION
@ CRAWLSPACE w/ BRICK
SCALE: 3/8"=1'-0"



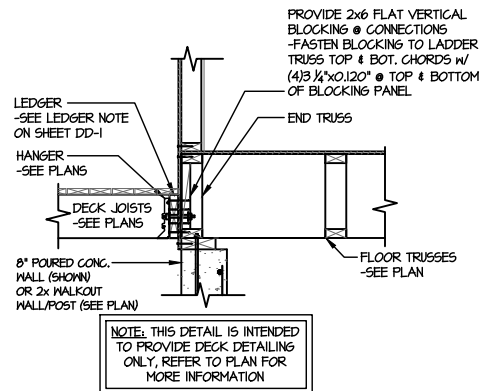
3 TYPICAL DECK CONNECTION
@ BASEMENT
SCALE: 3/8"=1'-0"



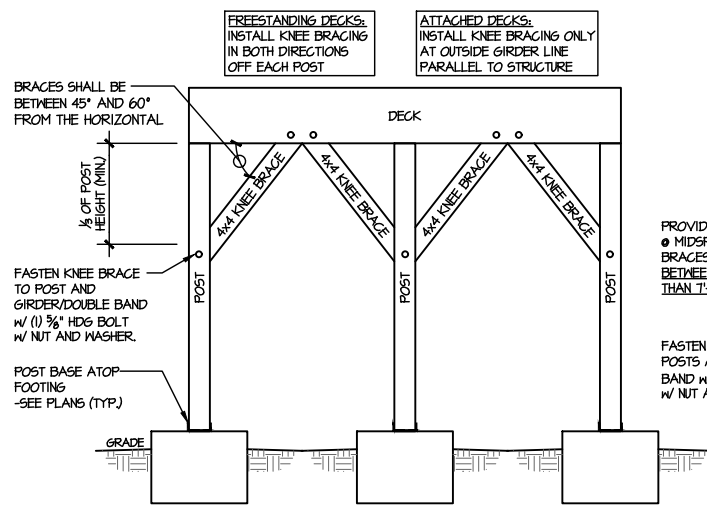
4 TYPICAL DECK CONNECTION
@ BASEMENT w/ BRICK
SCALE: 3/8"=1'-0"



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

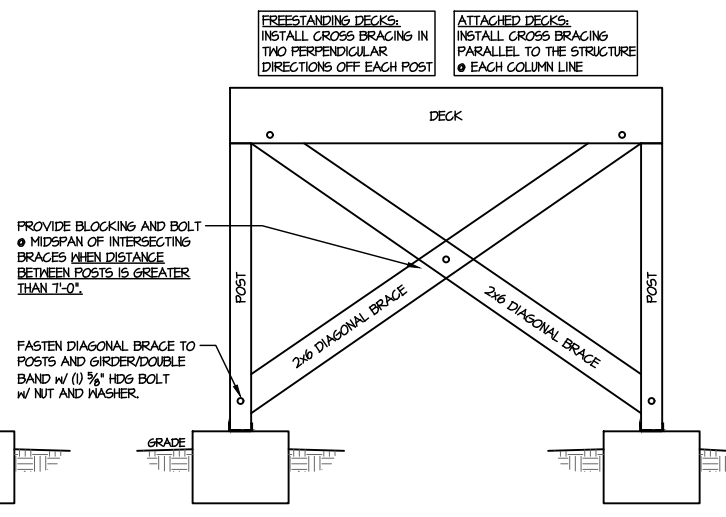


6 TYPICAL DECK CONNECTION
@ BASEMENT
SCALE: 3/8"=1'-0"



KNEE BRACING

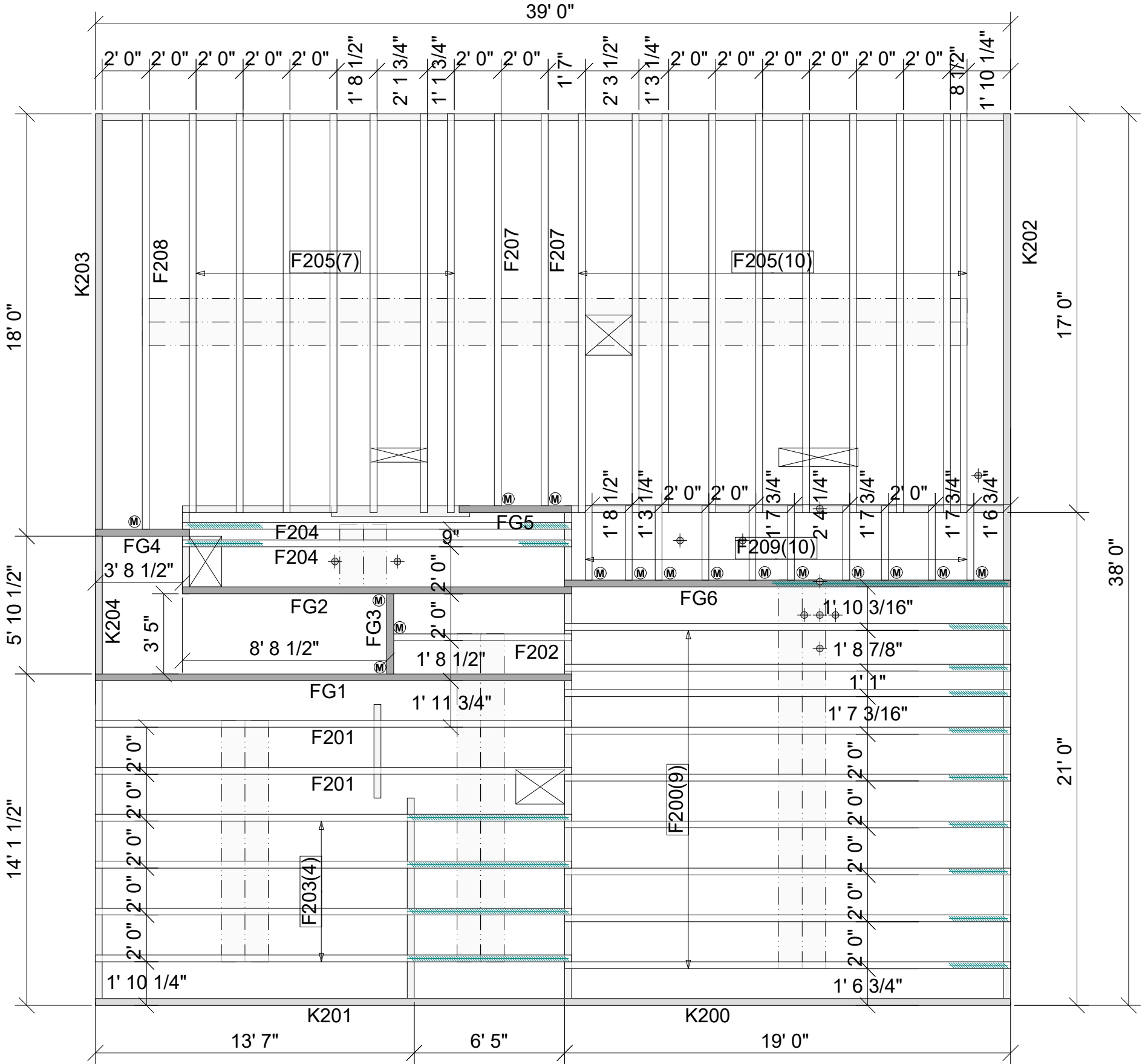
A TYPICAL LATERAL BRACING DETAILS FOR DECKS GREATER THAN 4' HIGH
SCALE: NTS



CROSS BRACING

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.sbcacomponents.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



Floor Hanger List		
MARK	TYPE	QTY
(M)	THA422	16

△ 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
07/21/2025	REVISED F205 TRUSSES TO LIP	-
-	HAVE NO CANTILEVER	-
-	ADDED F209 TRUSSES	-
-	CHANGED QUANTITY OF F209	-
-	ADDED F66	-
-	ADDED TH4422 HANGERS @ F209 TRUSSES	-

DESIGNER

LAYOUT DATE

ARCH DATE

STRUC DATE

JOB #: 25022103F2

LJP

03/05/2025

-

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RUSSELL B 2ND FLR

MUNGO HOMES

TRUSS TRAX

UPCONSTRUCTION

UFP SITE BUILT

A UFP INDUSTRIES COMPANY

Burlington, NC

Chesapeake, VA

Clinton, NC

Conway, SC

Jefferson, GA

Stanfield, NC

Locust, NC

Liberty, NC

Ooltewah, TN

Pearisburg, VA

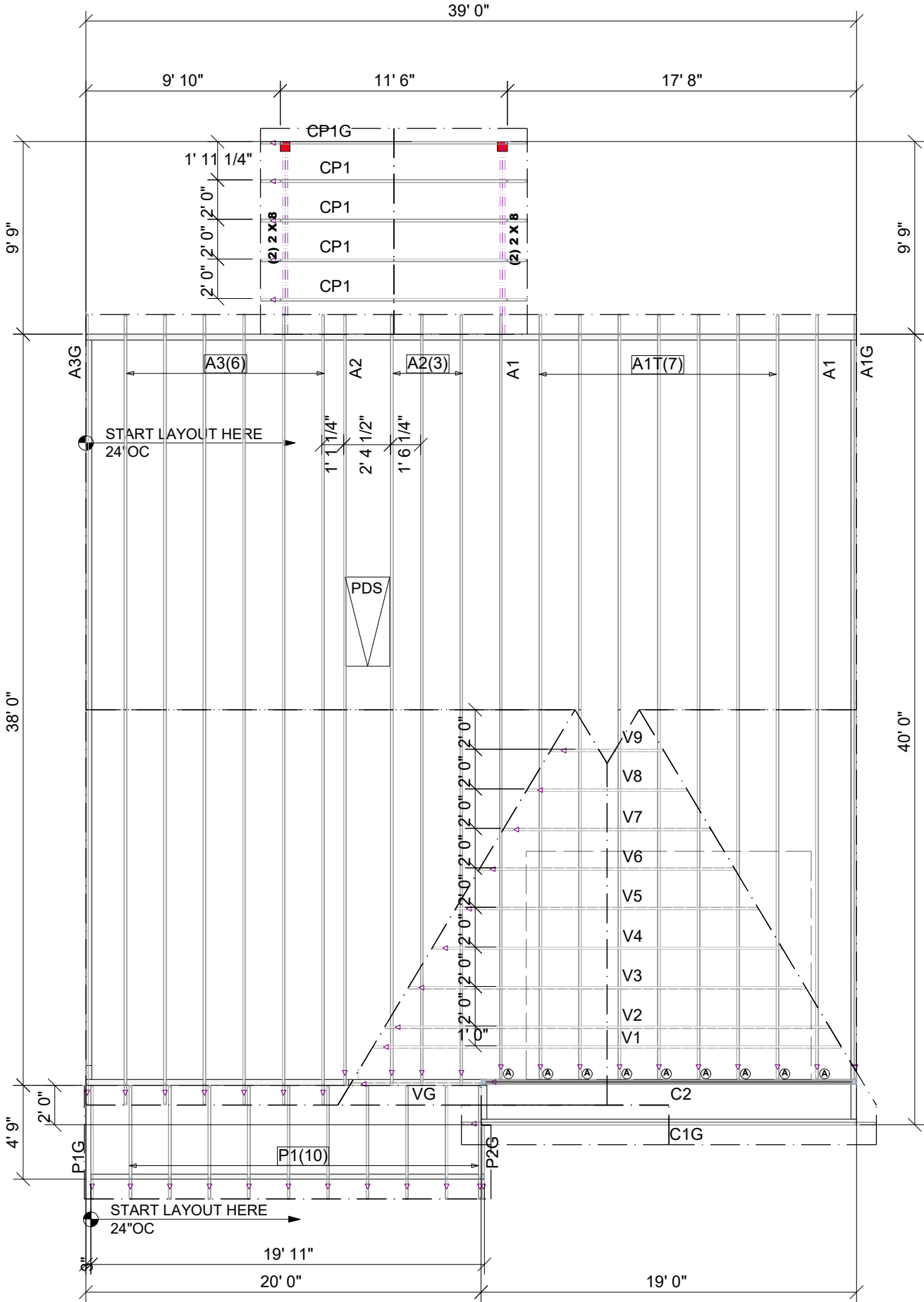
Starfield, NC

Customer Service (800) 476-9356

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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.sbcacomponents.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 repairs 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.

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	DESCRIPTION	QTY
(A)	HUS26	FACE MOUNT HANGER	9

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

ROOF AREA: 2126.88 ft² sqft

RIDGE LINE: 65.46 ft

VALLEY LINES: 50.75 ft

HIP LINES: 6.87 ft

THESE VALUES ARE APPROXIMATE ONLY

REVISIONS

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

RUSSELL D RF

MUNGO HOMES

DESIGNER LJP

LAYOUT DATE 06/20/2025

ARCH DATE -

STRUC DATE -

JOB #: 25061261

TRUSS TRAX

UPF CONSTRUCTION

TrussTraxUFP.com

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