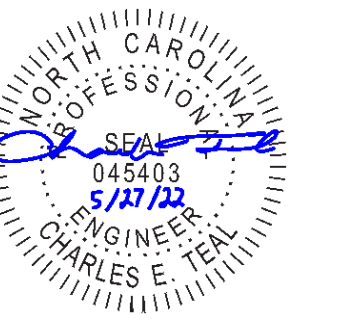


STRUCTURAL PLANS FOR:

BELMONT 2.0 LH

Purfoy Place Lot 4



P-0961



JDS Consulting, PLLC
 ENGINEERING · DESIGN · ENERGY
 JDS Consulting, PLLC: 8600 'D' JERSEY COURT, RALEIGH, NC 27617-9194-8017
 INFO@JDSCONSULTING.NET, WWW.JDSCONSULTING.NET
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REVISION LOG

DATE	REVISED BY	REVISION
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NOTES

- ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT, INCLUDING ROOF GEOMETRY. JDS CONSULTING, PLLC ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. ENGINEER TO BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS.
- PLANS MUST HAVE SIGNED SEAL TO BE VALID AND ARE LIMITED TO THE FOLLOWING USES:
 - IF THESE PLANS ARE ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR 18 MONTHS FROM THE DATE ON THE SEAL, UNLESS ANY CODE-REQUIRED UPDATES ARE PLACED IN EFFECT BY THE MUNICIPALITY.
 - IF THESE PLANS ARE NOT ISSUED AS A MASTER-PLAN SET, THE SET IS VALID FOR A CONDITIONAL, ONE-TIME USE FOR THE LOT OR ADDRESS SPECIFIED ON THE TITLE BLOCK.

CODE

ALL CONSTRUCTION, WORKMANSHIP, AND MATERIAL QUALITY AND SELECTION SHALL BE PER:

2018
 NORTH CAROLINA
 STATE BUILDING CODE:
 RESIDENTIAL CODE

ENGINEER OF RECORD

JDS CONSULTING, PLLC
 ENGINEERING · DESIGN · ENERGY
 8600 'D' JERSEY COURT
 RALEIGH, NC 27617
 FIRM LIC. NO: P-0961
 PROJECT REFERENCE: 22900802

CLIENT: TRIANGLE BUILDING & PROPERTIES

PROJECT: BELMONT 2.0 LH

LOCATION: NORTH CAROLINA

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO:
22900802

DATE: 05/27/2022

DRAWN BY:
CAR

TITLE SHEET

T

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE RESIDENTIAL CODE (SEE TITLE SHEET).

GENERAL

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDS CONSULTING, PLLC IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.
2. BRACED-WALL DESIGN IS BASED ON SECTION R602.10 - WALL BRACING, PRIMARY PRESCRIPTIVE METHOD TO BE CS-WSP. SEE WALL BRACING PLANS AND DETAILS FOR ADDITIONAL INFORMATION.
ALL NON-PRESCRIPTIVE SOLUTIONS ARE BASED ON GUIDELINES ESTABLISHED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION ASCE 7 AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC.
3. SEISMIC DESIGN SHALL BE PER SECTION R301.2.2 - SEISMIC PROVISIONS, INCLUDING ASSOCIATED TABLES AND FIGURES, BASED ON LOCAL SEISMIC DESIGN CATEGORY.

DESIGN LOADS

Table with 2 columns: Assumed Soil Bearing-Capacity (2,000 PSF), Live Load (115 MPH, Exposure B), Ultimate Design Wind Speed (15 PSF), Ground Snow Roof (20 PSF).

Table titled 'RESIDENTIAL CODE TABLE R301.5 LIVE LOAD (PSF)' listing various areas and their corresponding live load values (e.g., Dwelling Units: 40, Sleeping Rooms: 30, Decks: 40).

COMPONENT AND CLADDING LOADS, INCLUDING THOSE FOR DOORS AND WINDOWS, SHALL BE DERIVED FROM TABLES R301.2(2) AND R301.2(3) FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 35 FEET, LOCATED IN EXPOSURE B.

ABBREVIATIONS

Table mapping abbreviations to full names (e.g., ABV ABOVE, AFF ABOVE FINISHED FLOOR, LVL KING STUD COLUMN).

MATERIALS

- 1. INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):
Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI
2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:
Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI
3. LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI
4. PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI
5. LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI
6. STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 50 KSI
7. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60.
8. POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157.
9. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER TABLE R301.2(1) SHALL BE AIR-ENTRAINED WHEN REQUIRED BY TABLE R402.2.
10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND THE MASONRY SOCIETY PUBLICATION TMS 402/402: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.
11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD C270.
12. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.
13. REFER TO I-JOIST EQUIVALENCES CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.

FOUNDATION

- 1. MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.
2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.
3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/402: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.
4. CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER TABLE R404.1.2(1) OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.2(3) AND 4) OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.
5. PLAIN-MASONRY WALL DESIGN TO BE PER TABLE R404.1.1(1) OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.
A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.
6. WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE SECTION R403.1.6 FOR SPECIFIC CONDITIONS.
7. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED, HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
8. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS.
9. ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).
10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.
11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.
12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

FRAMING

- 1. ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.
2. ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.
3. NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.
4. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
5. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
7. PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED LUMBER.
A. ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA, ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
B. ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND DETAILS.
8. ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.
9. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:
A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
C. INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
D. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.
10. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.
11. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO.
12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.
13. WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).
14. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).
15. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.
16. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF THE APPLICABLE CODE (SEE TITLE SHEET). REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.

FASTENER SCHEDULE table with columns: CONNECTION, 3" x 0.131" NAIL, 3" x 0.120" NAIL. Rows include JOIST TO SILL PLATE, SOLE PLATE TO JOIST / BLOCKING, STUD TO SOLE PLATE, etc.

SEE TABLE R602.3(1) FOR ADDITIONAL STRUCTURAL-MEMBER FASTENING REQUIREMENTS. DETAILS AND NOTES ON DRAWINGS GOVERN.

BALLOON WALL FRAMING SCHEDULE table with columns: FRAMING MEMBER SIZE, MAX HEIGHT (PLATE TO PLATE), 115 MPH ULTIMATE DESIGN WIND SPEED. Rows include 2x4 @ 16" OC, 2x6 @ 16" OC, etc.

- a. ALL HEIGHTS ARE MEASURED SUBFLOOR TO TOP OF WALL PLATE.
b. WHEN SPLIT-FRAMED WALLS ARE USED FOR HEIGHTS OVER 12', THE CONTRACTOR SHALL ADD 6' MINIMUM OF CS16 COIL STRAPPING (FULLY NAILED), CENTERED OVER THE WALL BREAK.
c. FINGER-JOINTED MEMBERS MAY BE USED FOR CONTINUOUS HEIGHTS WHERE TRADITIONALLY MILLED LUMBER LENGTHS ARE LIMITED.
d. FOR GREATER WIND SPEED, SEE ENGINEERED SOLUTION FOR CONDITION IN DRAWINGS.

ROOF SYSTEMS

TRUSS ROOF - STRUCTURAL NOTES

- 1. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
2. DENOTES OVER-FRAMED AREA
3. MINIMUM 7/16" OSB ROOF SHEATHING
4. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
5. MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
6. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
7. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

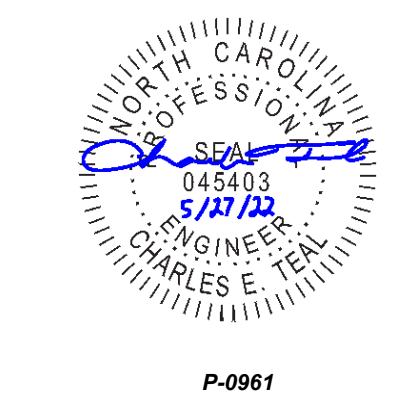
STICK-FRAMED ROOF - STRUCTURAL NOTES

- 1. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
2. FUR RIDGES FOR FULL RAFTER CONTACT.
3. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
4. DENOTES OVER-FRAMED AREA
5. MINIMUM 7/16" OSB ROOF SHEATHING
6. PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
7. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
8. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

BRICK VENEER LINTEL SCHEDULE table with columns: SPAN, STEEL ANGLE SIZE, END BEARING LENGTH. Rows include UP TO 42", UP TO 72", OVER 72".

* FOR QUEEN BRICK: LINTELS AT THIS CONDITION MAY BE 5"x3-1/2"x5/16"

NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"x3-1/2"x1/4" STEEL ANGLE WITH 16d NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" OC TO TRIPLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3"x3"x1/4" PLATES SHALL BE WELDED AT 24" OC ALONG THE STEEL ANGLE.



JDS Consulting Engineering + Design + Energy logo and contact information: 8600 TP JERRY CT, RALEIGH, NC 27617, 919.498.0075, info@jdsconsulting.net, www.jdsconsulting.net

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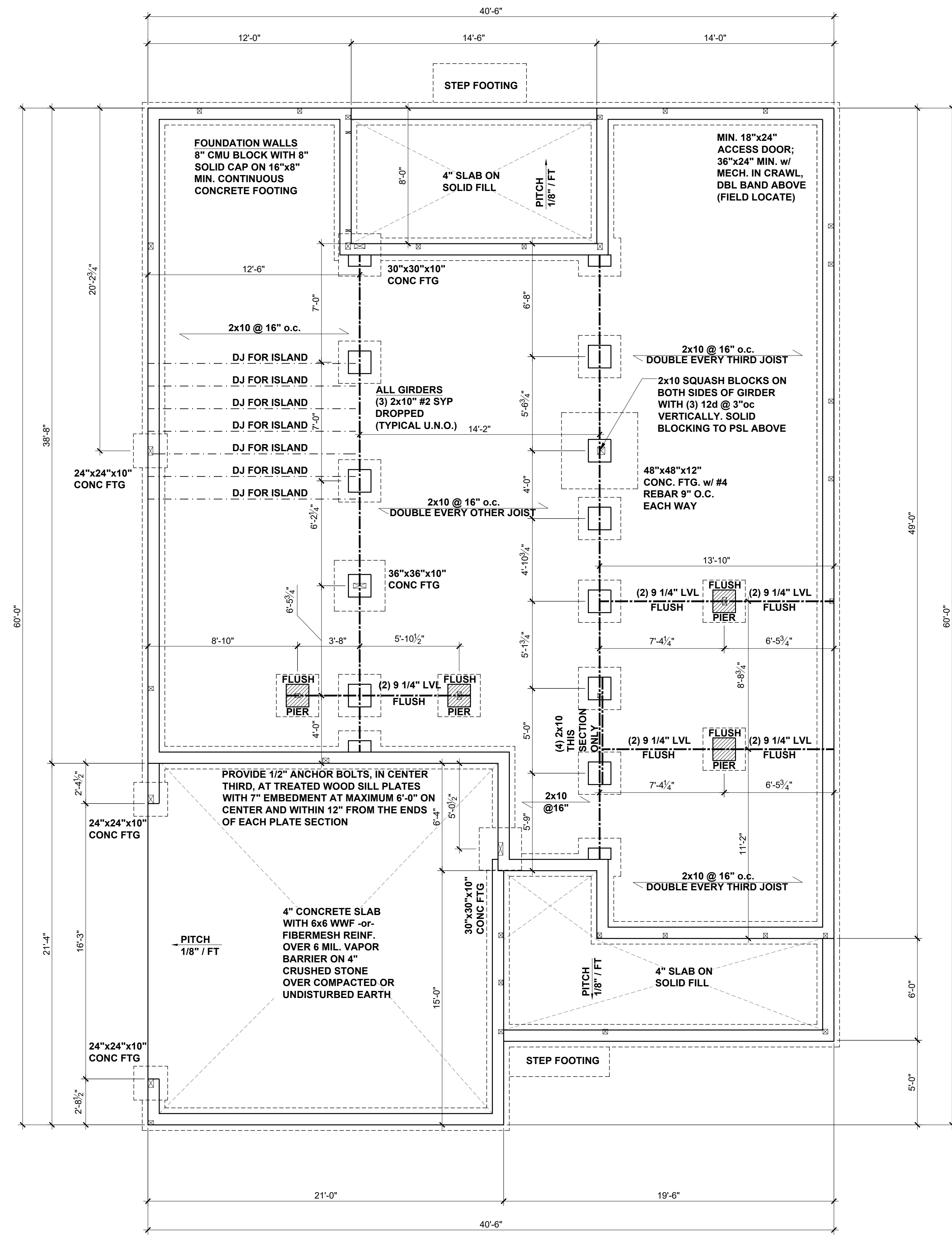
CLIENT: TRIANGLE BUILDING & PROPERTIES, PROJECT: BELMONT 2.0 LH, LOCATION: NORTH CAROLINA, SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO: 22900802

DATE: 05/27/2022, DRAWN BY: CAR

GENERAL NOTES

GN1.0



CRAWL SPACE FOUNDATION PLAN
 SCALE: 1/4"=1'-0" STANDARD VERSION

BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- - - ROOF RAFTER / TRUSS SUPPORT
- - - DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- ⊠ POINT LOAD TRANSFER
- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

CRAWL SPACE VENTILATION

THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDERFLOOR SPACE AREA, AND ONE SUCH OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING.

EXCEPTION: THE TOTAL AREA OF VENTILATION MAY BE REDUCED TO 1/1500 OF THE UNDERFLOOR AREA WHERE THE GROUND SURFACE IS TREATED WITH AN APPROVED VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION.

1604	SQUARE FEET OF TOTAL CRAWL SPACE / 150 =
10.7	SQUARE FEET OF NET-FREE VENTILATION REQUIRED

FOUNDATION STRUCTURAL NOTES:

1. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE	HOLLOW MASONRY	SOLID MASONRY
8x16	UP TO 32" HIGH	UP TO 5'-0" HIGH
12x16	UP TO 48" HIGH	UP TO 9'-0" HIGH
16x16	UP TO 64" HIGH	UP TO 12'-0" HIGH
24x24	UP TO 96" HIGH	

WITH 30" x 30" x 10" CONCRETE FOOTING, UNO.

8"x16" PIERS AT FOUNDATION WALL SUPPORTING DROPPED GIRDER TO HAVE A 30"x10"x8" FOOTING PROJECTION FROM THE MAIN WALL FOOTING.

EXTRA JOISTS UNDER ALL NON LOAD BEARING WALLS THAT RUN AT LEAST 30% OF THE JOIST SPAN.

P-0961

JDS Consulting LLC: 8600 D. JERSEY CT. RALEIGH, NC 27617 919.480.0775
 INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET

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CLIENT: **TRIANGLE BUILDING & PROPERTIES**

PROJECT: **BELMONT 2.0 LH**

LOCATION: **NORTH CAROLINA**

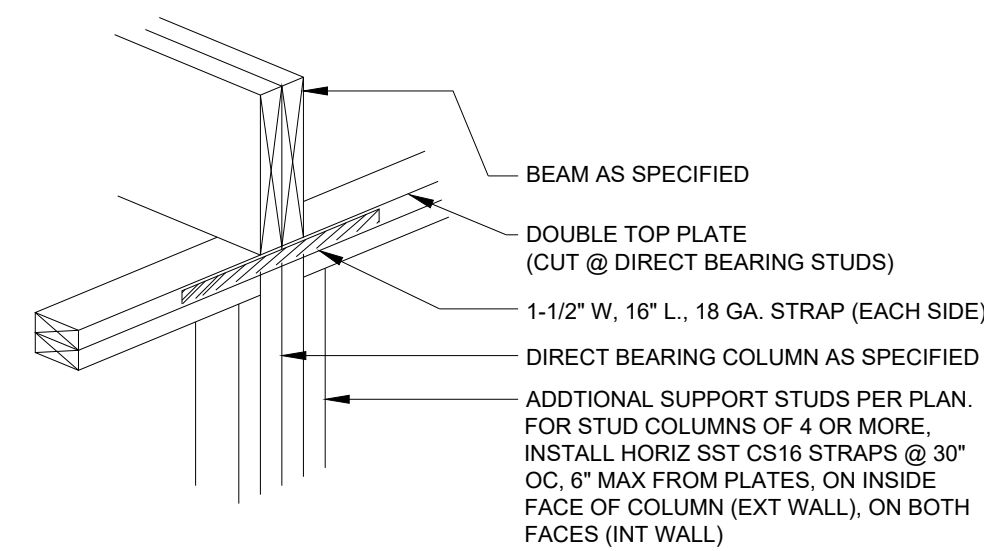
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO: **22900802**

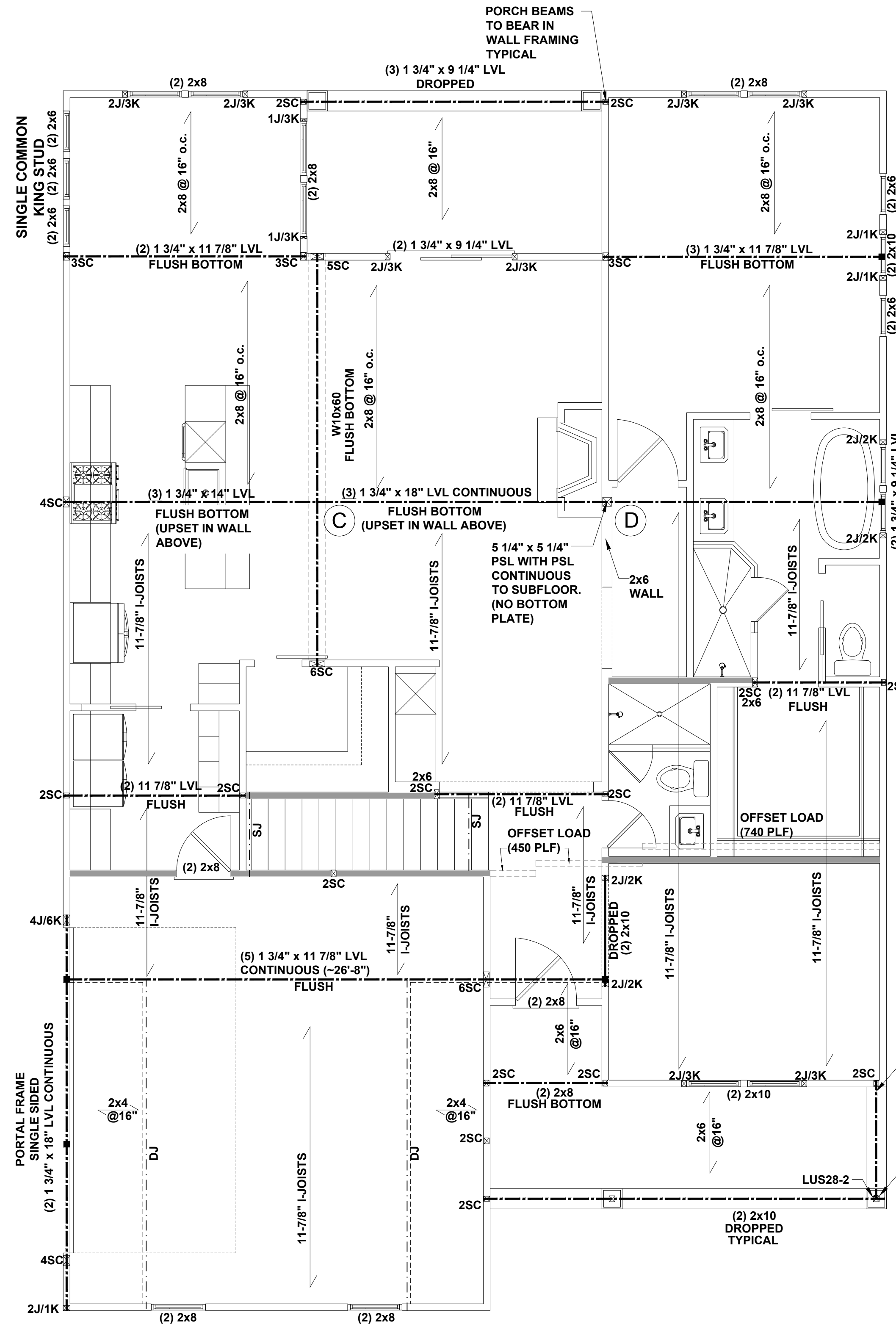
DATE: **05/27/2022** DRAWN BY: **CAR**

STANDARD FOUNDATION PLAN

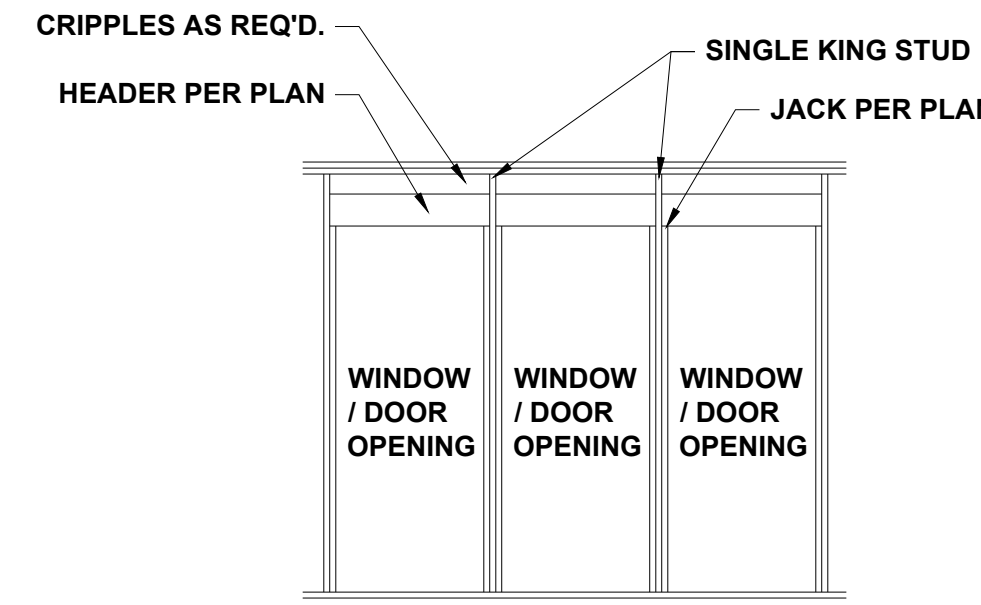
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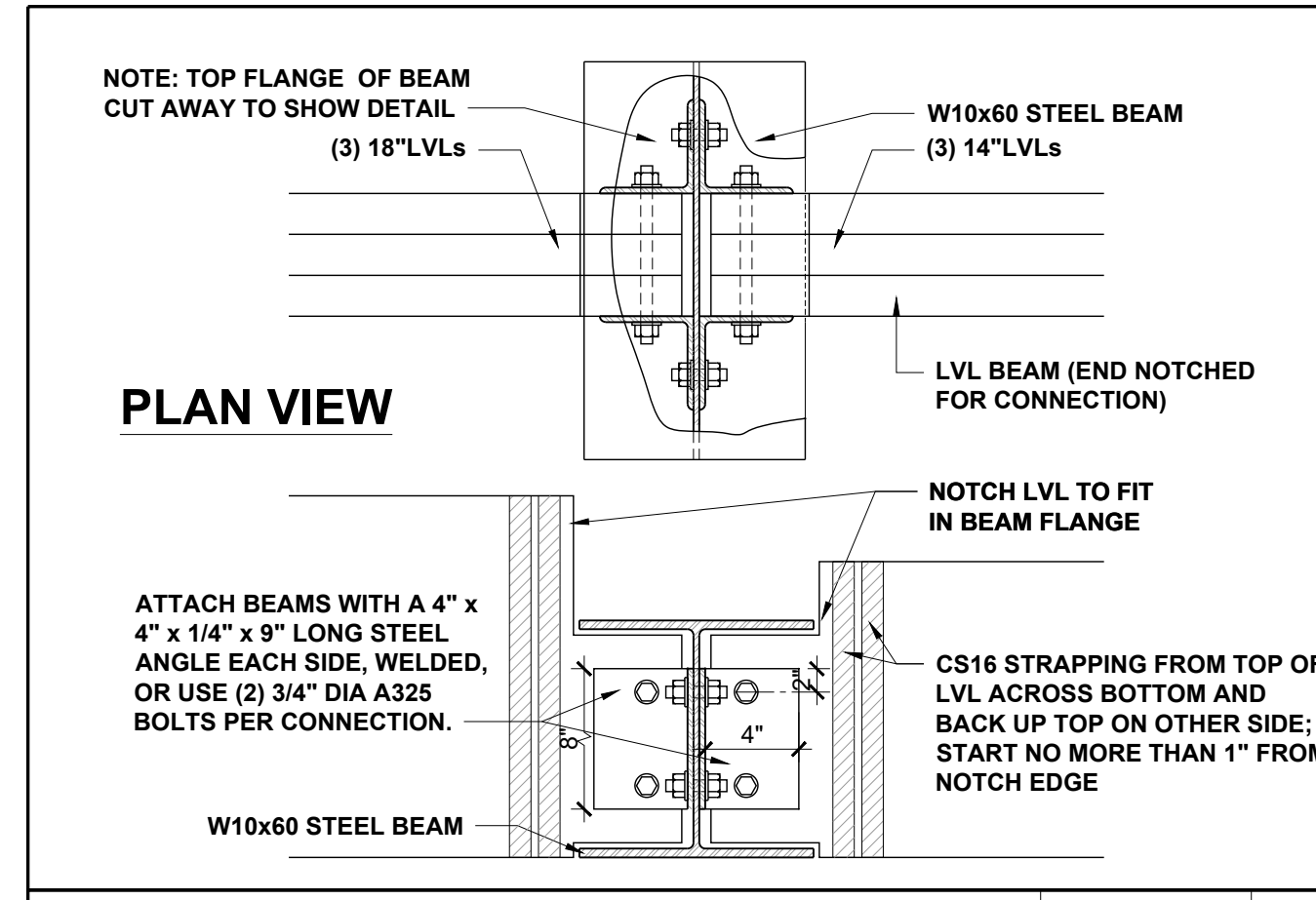
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NTS



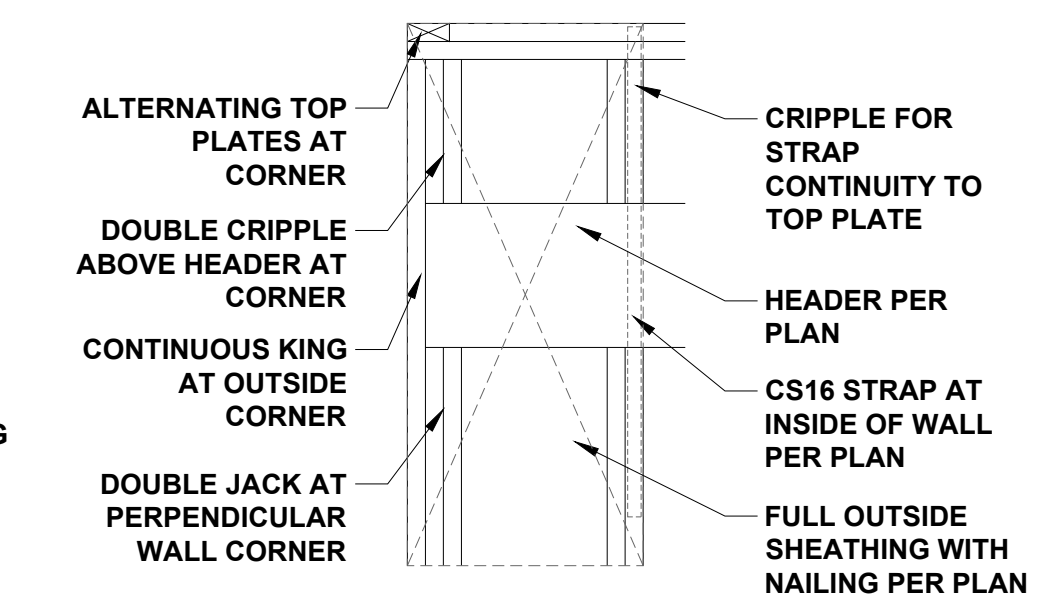
FIRST FLOOR CEILING FRAMING PLAN
SCALE: 1/4"=1'-0" STANDARD LAYOUT



MULTI HEADER DETAIL
SINGLE COMMON KING STUD NTS



LVL-TO-STEEL BEAM CONNECTION NTS



PORTAL FRAMED OR ENGINEERED OPENING OUTSIDE CORNER DETAIL
NTS

BEAM & POINT LOAD LEGEND

	INTERIOR LOAD BEARING WALL
	ROOF RAFTER / TRUSS SUPPORT
	DOUBLE RAFTER / DOUBLE JOIST
	STRUCTURAL BEAM / GIRDER
	WINDOW / DOOR HEADER
	POINT LOAD TRANSFER
	POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

- STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)**
- ALL FRAMING TO BE #2 SPF MINIMUM.
 - ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
 - EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
 - ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
 - PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
 - ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
 - ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
 - ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
 - FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) ATTACH44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
 - PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
 - WHEN A 4-PLY LVL IS USED, ATTACH WITH (1) 1/2" Ø BOLT 12" OC STAGGERED, TOP AND BOTTOM, 1-1/2" MIN FROM ENDS. ALTERNATE ATTACHMENT EQUIVALENT METHOD MAY BE USED, SUCH AS SDW OR TRUSLOK SCREWS (SEE MANUFACTURER'S SPECIFICATIONS).
 - FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

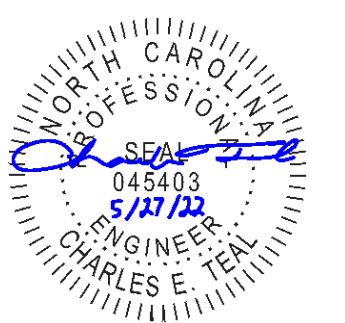
- STICK-FRAMED ROOF - STRUCTURAL NOTES**
- FRAMING SHALL BE #2 SPF OR BETTER, UNO.
 - PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE ON PLAN.
 - FUR RIDGES FOR FULL RAFTER CONTACT.
 - PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
 - DENOTES OVER-FRAMED AREA
 - MINIMUM 7/16" OSB ROOF SHEATHING
 - PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
 - PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
 - UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

ALL FLUSH BEAMS TO BE DIRECTLY SUPPORTED BY (2) 2x STUDS UNLESS OTHERWISE NOTED. STUD COLUMNS TO BE SUPPORTED BY SOLID BLOCKING TO FOUNDATION OR TO BEARING COMPONENT BELOW.

FLOOR FRAMING TO BE 11 7/8" DEEP TJI 210 SERIES OR EQUAL, 19.2" OC MAXIMUM SPACING UNLESS OTHERWISE NOTED ON THE PLANS

**REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES

EXTRA JOISTS UNDER ALL NON LOAD BEARING WALLS THAT RUN AT LEAST 30% OF THE JOIST SPAN.



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CLIENT:	TRIANGLE BUILDING & PROPERTIES
PROJECT:	BELMONT 2.0 LH
LOCATION:	NORTH CAROLINA

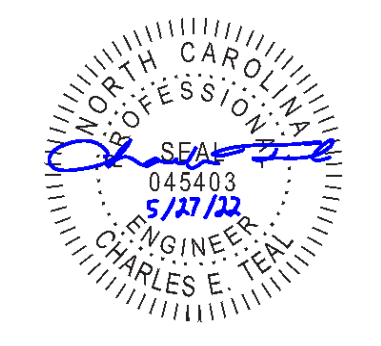
PROJECT NO: 22900802

DATE: 05/27/2022 DRAWN BY: CAR

STANDARD FIRST FLOOR CEILING FRAMING PLAN

S1.0

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED



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BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- ROOF RAFTER / TRUSS SUPPORT
- - - DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- ⊗ POINT LOAD TRANSFER
- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

- STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)**
- ALL FRAMING TO BE #2 SPF MINIMUM.
 - ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED w/ MIN (1) JACK AND (1) KING EACH END, UNO.
 - EXTERIOR WALL OPENINGS OVER 3' TO HAVE MULTIPLE KING STUDS AS NOTED ON PLAN.
 - ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
 - PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
 - ALL HANGERS AND CONNECTORS SPECIFIED ARE TO BE SIMPSON STRONG-TIE OR EQUIVALENT.
 - ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. MINIMUM BEAM SUPPORT IS (1) 2x4 STUD.
 - ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.
 - FRONT PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT TOP AND BOTTOM USING SIMPSON (OR EQUIV) COLUMN BASE OR SST A24 BRACKETS. TRIM OUT PER BUILDER.
 - PORCH COLUMNS TO BE MIN 4x4 PT ATTACHED AT BOTTOM USING SIMPSON (OR EQUIV) ABA44 AND AT TOP USING CS 16 STRAPPING (12" MIN) TO PORCH HEADER / BAND.
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 - FOR STUD COLUMNS OF 4 OR MORE, INSTALL SST CS16 STRAPS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

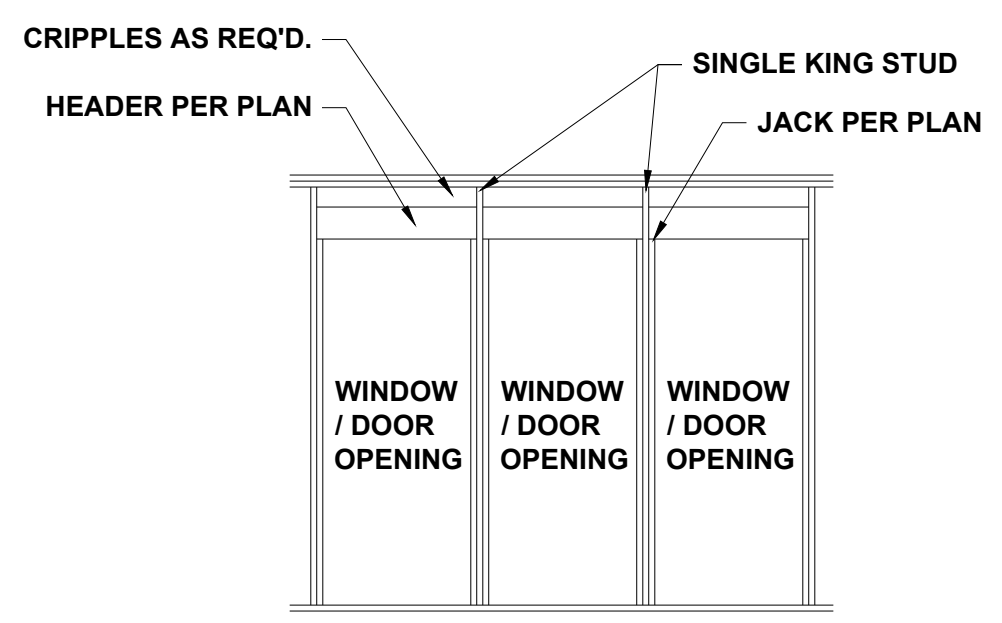
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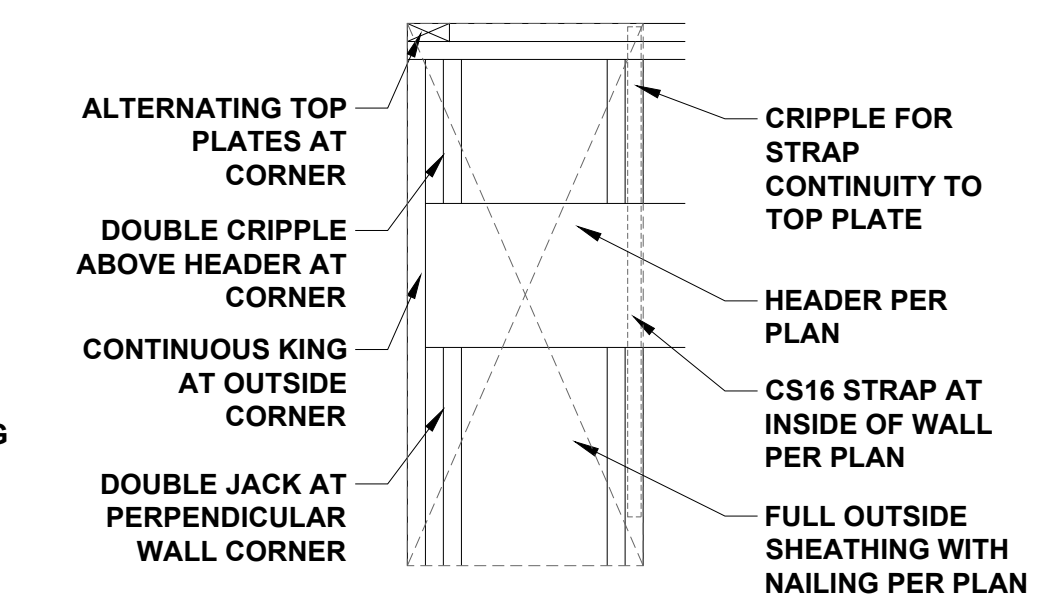
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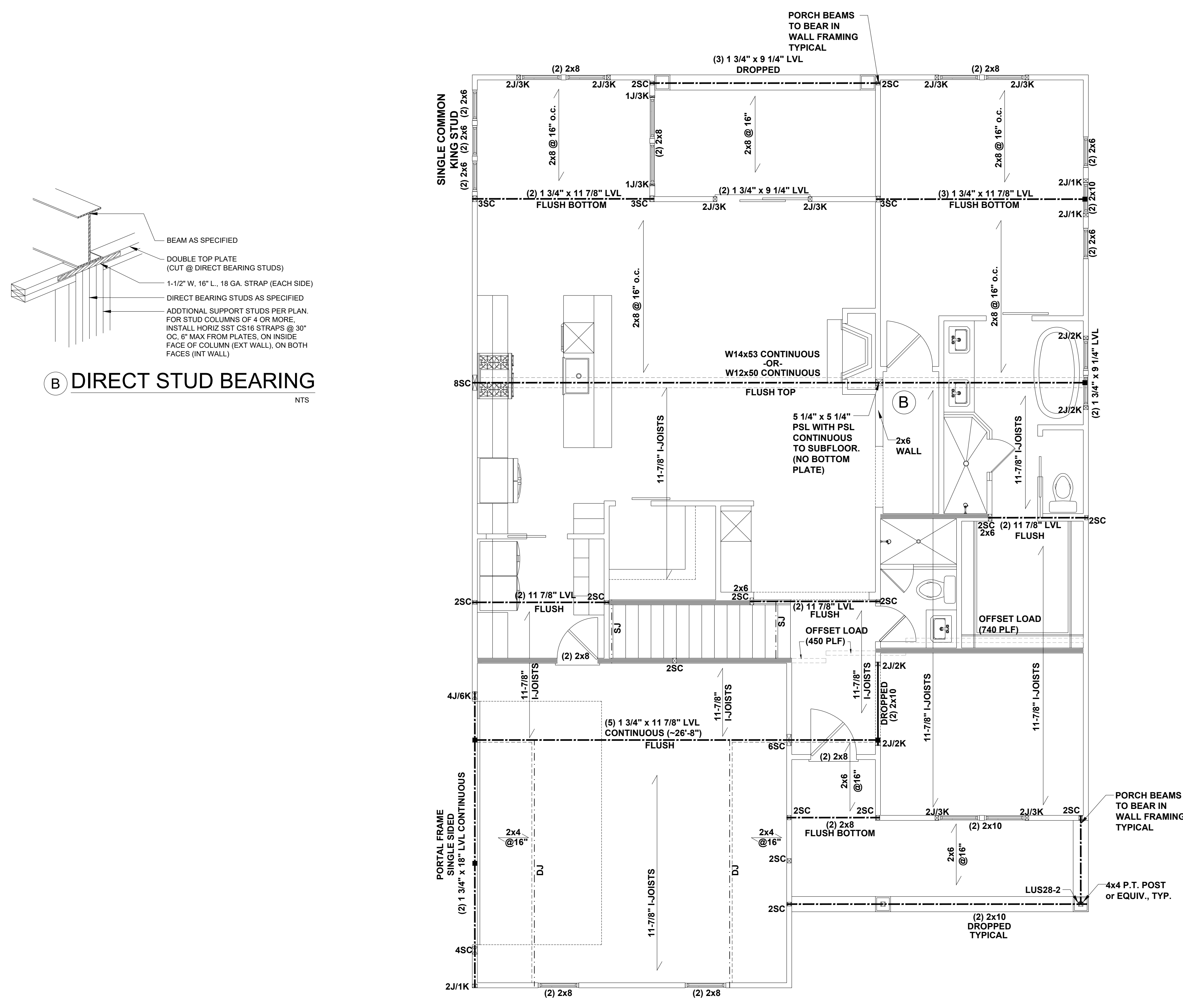
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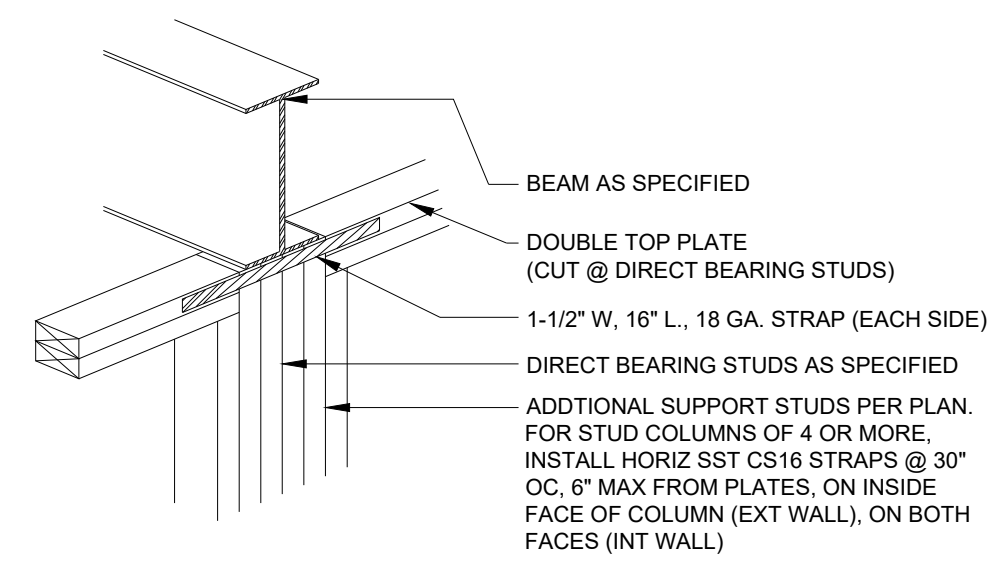
**MULTI HEADER DETAIL
SINGLE COMMON KING STUD NTS**



**PORTAL FRAMED OR
ENGINEERED OPENING
OUTSIDE CORNER DETAIL
NTS**



**FIRST FLOOR CEILING FRAMING PLAN
SCALE: 1/4"=1'-0" ALTERNATE VERSION**



**DIRECT STUD BEARING
NTS**

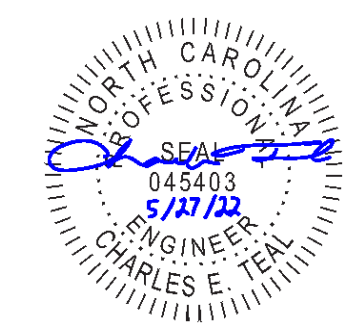
CLIENT: **TRIANGLE BUILDING & PROPERTIES**
PROJECT: **BELMONT 2.0 LH**
LOCATION: **NORTH CAROLINA**

PROJECT NO.: **22900802**
DATE: **05/27/2022** DRAWN BY: **CAR**

ALTERNATE FIRST FLOOR
CEILING FRAMING PLAN

S1.1

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED



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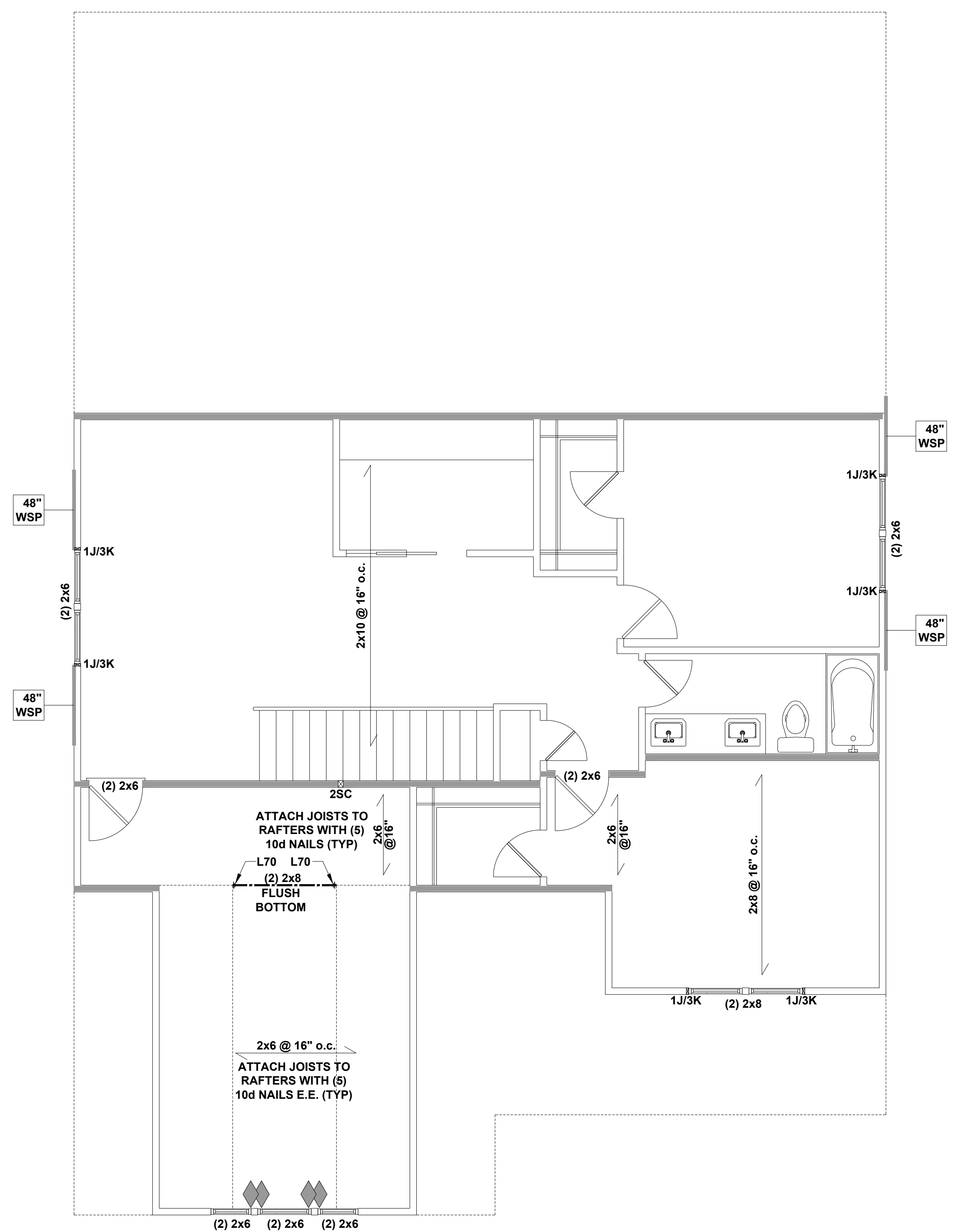
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BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- - - ROOF RAFTER / TRUSS SUPPORT
- - - DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
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- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

- STRUCTURAL FRAMING NOTES - (SEE GENERAL NOTES SHEET FOR ADDITIONAL REQUIREMENTS.)**
- ALL FRAMING TO BE #2 SPF MINIMUM.
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 - ALL NON-BEARING HEADERS TO BE (2) 2x4 (1) J / (1) K, UNO.
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◆ CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 24" LONG MINIMUM

SECOND FLOOR CEILING FRAMING PLAN

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

CLIENT: TRIANGLE BUILDING & PROPERTIES
PROJECT: BELMONT 2.0 LH
LOCATION: NORTH CAROLINA

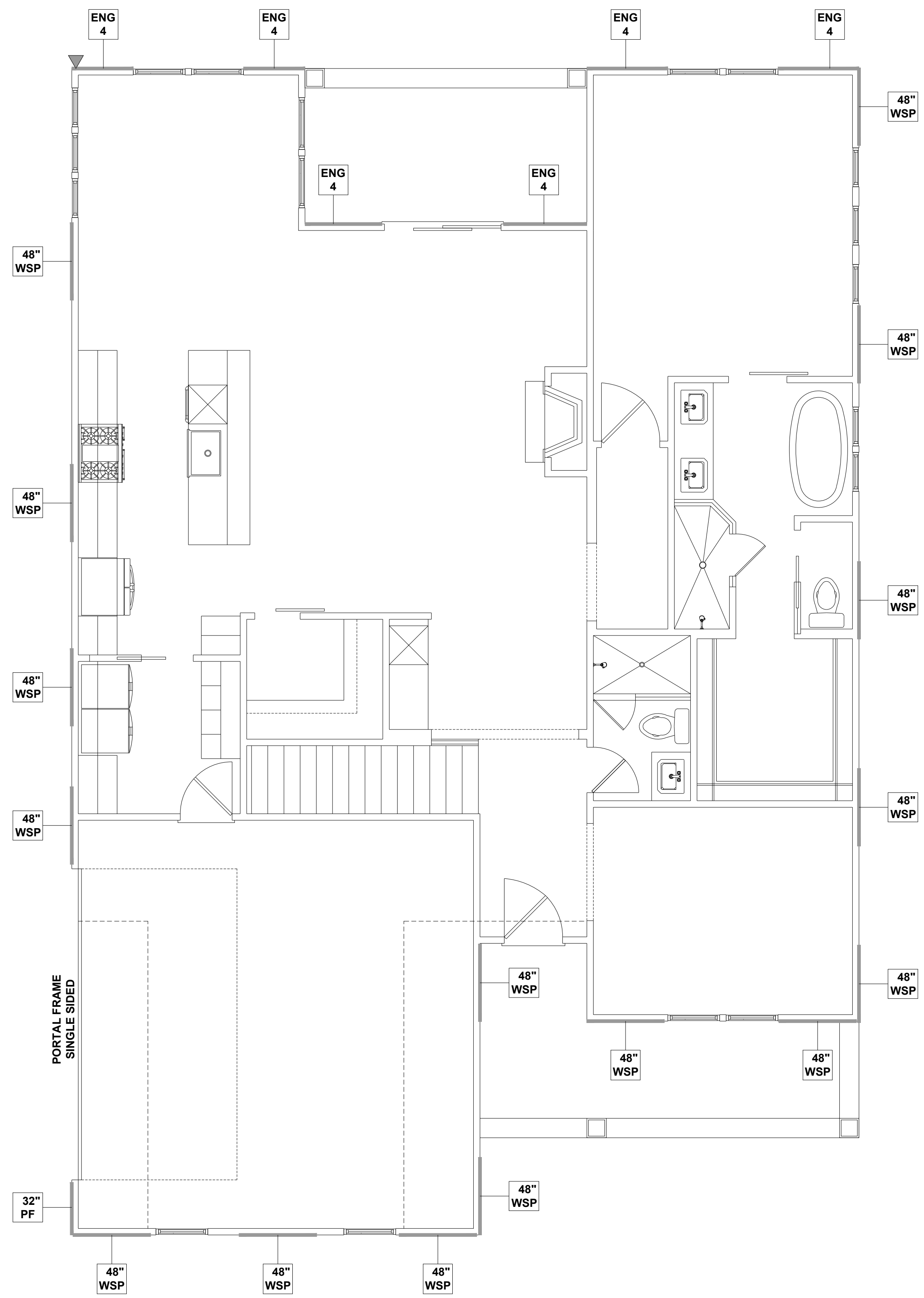
PROJECT NO.: 22900802

DATE: 05/27/2022 DRAWN BY: CAR

SECOND FLOOR CEILING FRAMING PLAN

S2.0

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED



FIRST FLOOR WALL BRACING PLAN
SCALE: 1/4"=1'-0"

WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- ALL WSP NOTED ON PLAN ARE TO BE CONSIDERED CS-WSP
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:

- ◆ CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM
- ▶ SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED w/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH OF WALL PANEL AT LOCATION

NUMERICAL LENGTH OF PANEL

PANEL TYPE

WALL BRACING NOTE:

WALLS WITH PROVIDED LENGTH LISTED AS "N/A" DO NOT MEET THE REQUIREMENTS OF PRESCRIPTIVE WALL BRACING FOUND IN THE NCRC. THESE WALLS ARE ENGINEERED DESIGN BASED ON DESIGN GUIDELINES ESTABLISHED IN ASCE-07 AND THE NDS: WIND & SEISMIC PROVISIONS SUPPLEMENT.

ENGINEERED WALL SCHEDULE

ENG1: CONTINUOUSLY SHEATH WITH 7/16" OSB ATTACHED WITH 8d NAILS @ 6" OC EDGE AND 12" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG2: CONTINUOUSLY SHEATH WITH 7/16" OSB WITH 10d NAILS @ 3" OC EDGE AND 3" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG3: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED BOTH SIDES WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

ENG4: CONTINUOUSLY SHEATH 7/16" OSB ATTACHED WITH 8d NAILS @ 4" OC EDGE AND 8" OC FIELD. FULLY BLOCKED AT ALL PANEL EDGES.

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	16.0 FT.	20.0 FT.
RIGHT	11.0 FT.	20.0 FT.
REAR	16.0 FT.	N/A
LEFT	11.0 FT.	20.0 FT.

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CLIENT: **TRIANGLE BUILDING & PROPERTIES**

PROJECT: **BELMONT 2.0 LH**

LOCATION: **NORTH CAROLINA**

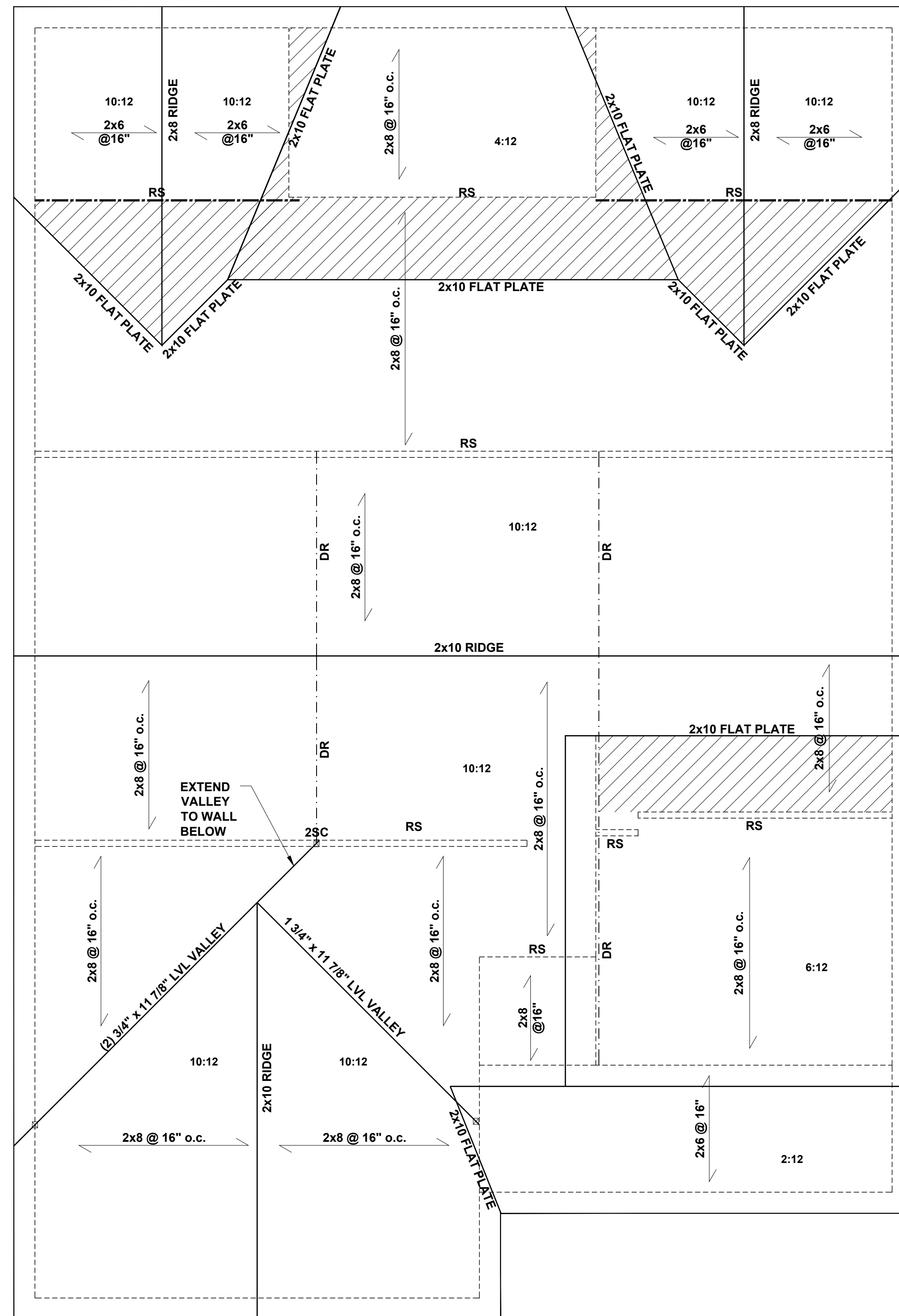
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PROJECT NO.: **22900802**

DATE: **05/27/2022** DRAWN BY: **CAR**

FIRST FLOOR
WALL BRACING PLAN

S4.0



ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"

BEAM & POINT LOAD LEGEND

- INTERIOR LOAD BEARING WALL
- - - ROOF RAFTER / TRUSS SUPPORT
- - - DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- ⊠ POINT LOAD TRANSFER
- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

STICK-FRAMED ROOF - STRUCTURAL NOTES

1. FRAMING SHALL BE #2 SPF OR BETTER, UNO.
2. PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE ON PLAN.
3. FUR RIDGES FOR FULL RAFTER CONTACT.
4. PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
5. DENOTES OVER-FRAMED AREA
6. MINIMUM 7/16" OSB ROOF SHEATHING
7. PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
8. PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
9. UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

ATTIC VENTILATION

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

2684	SQUARE FEET OF TOTAL ATTIC / 150 =
18	SQUARE FEET OF NET-FREE VENTILATION REQUIRED

NORTH CAROLINA
PROFESSIONAL
SEAL
145403
5/17/22
ENGINEER
CHARLES E. TEAL

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CLIENT: **TRIANGLE BUILDING & PROPERTIES**

PROJECT: **BELMONT 2.0 LH**

LOCATION: **NORTH CAROLINA**

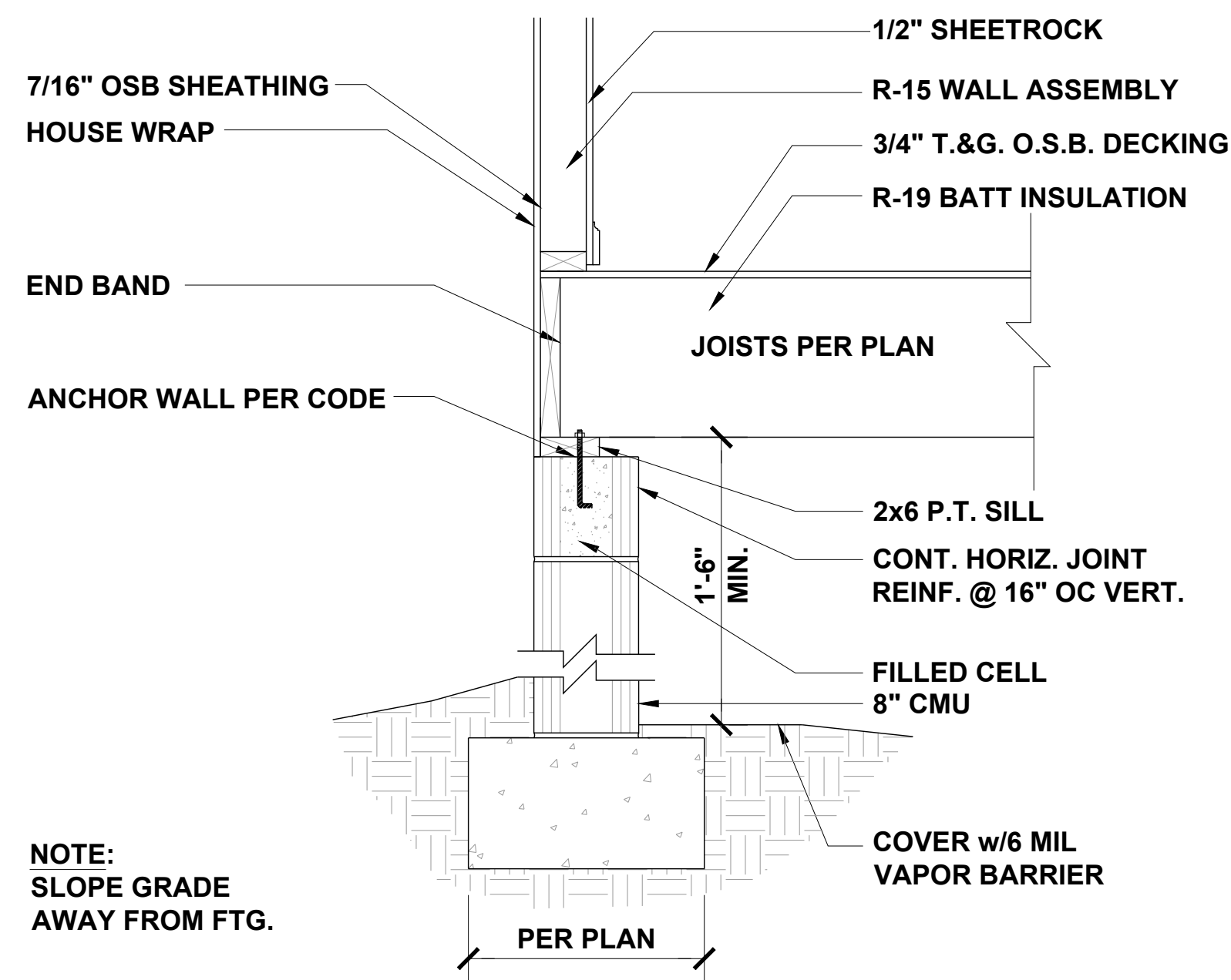
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.: **22900802**

DATE: **05/27/2022** DRAWN BY: **CAR**

ROOF
FRAMING PLAN

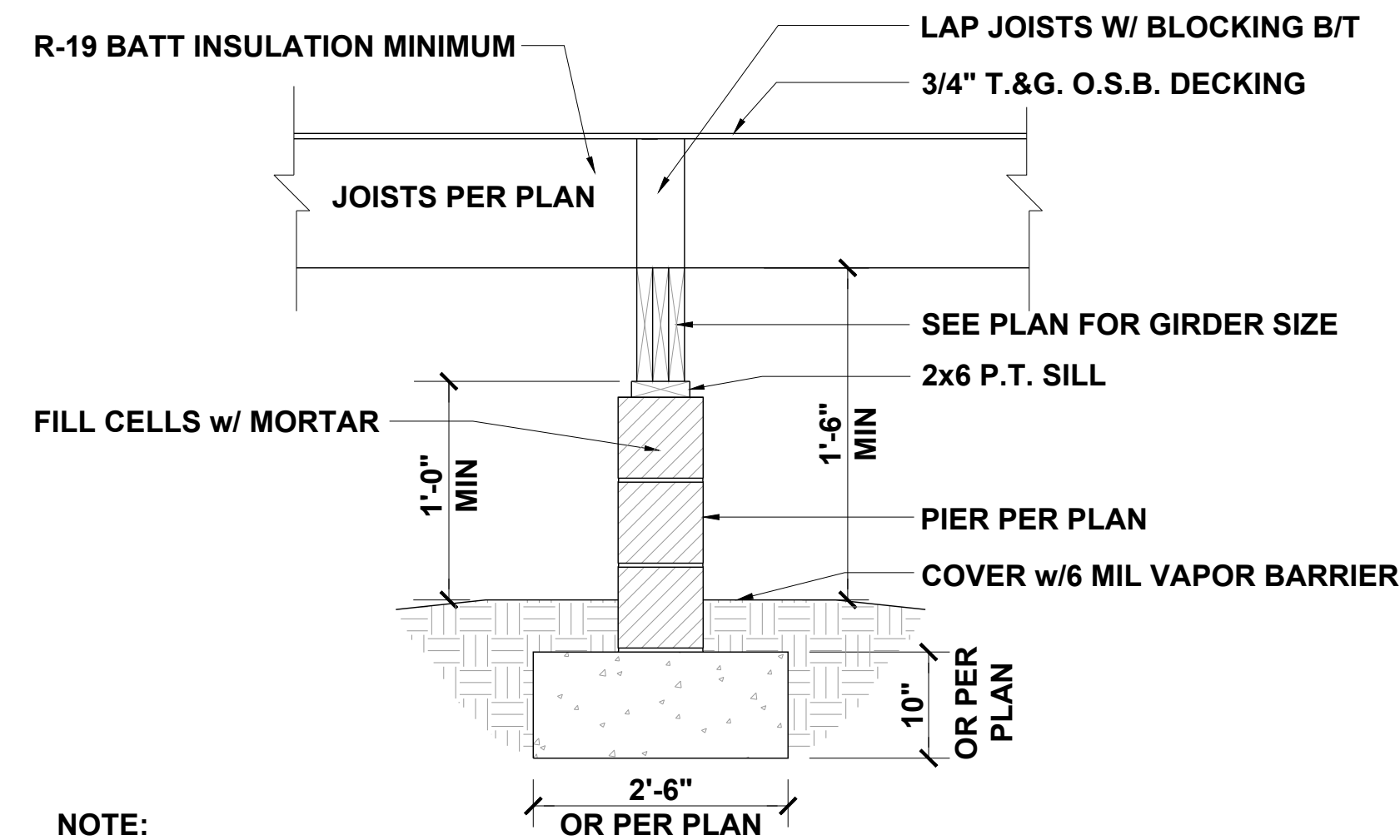
S6.0



CRAWL AT EXTERIOR WALL

1/2" = 1'-0"

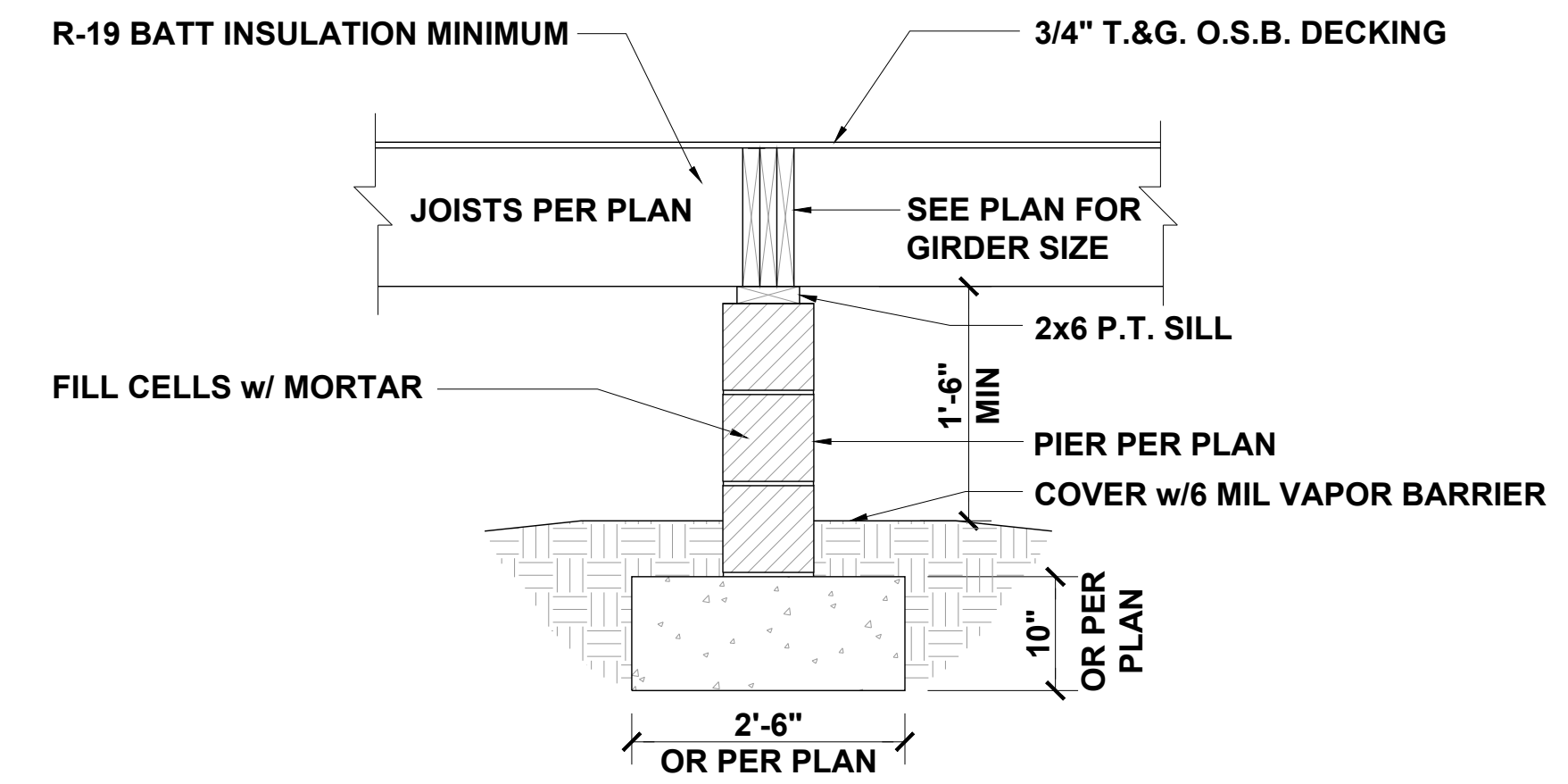
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PIER AND GIRDER

1/2" = 1'-0"

2

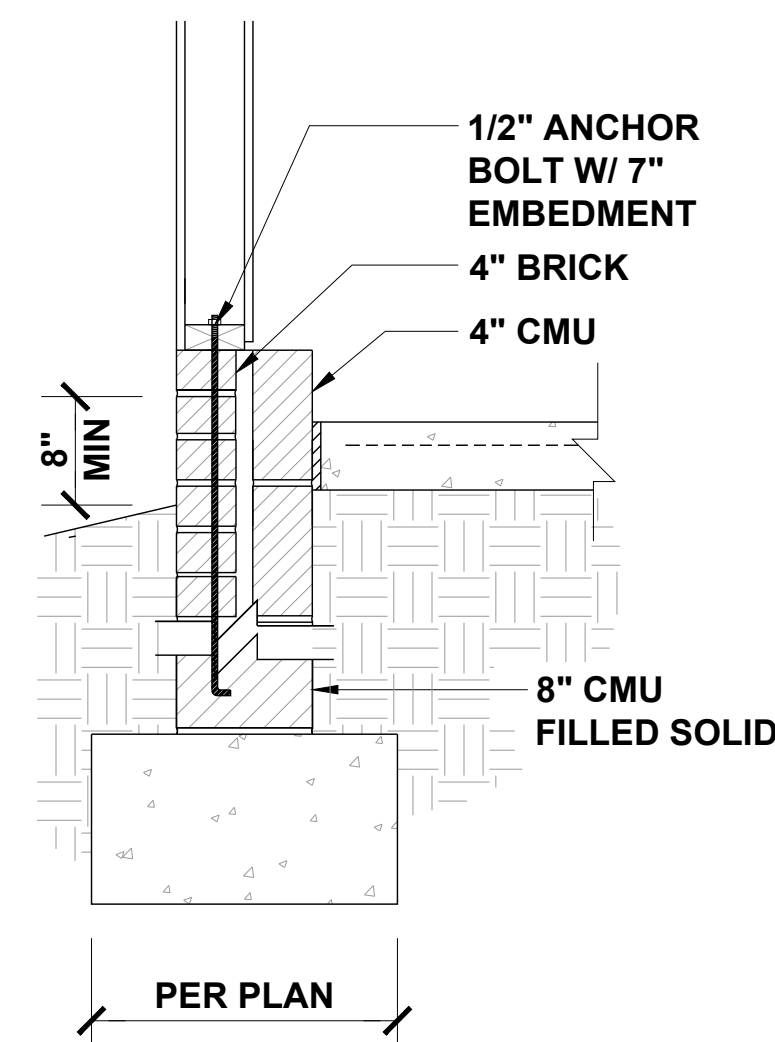


PIER AND FLUSH GIRDER

3/8" = 1'-0"

3

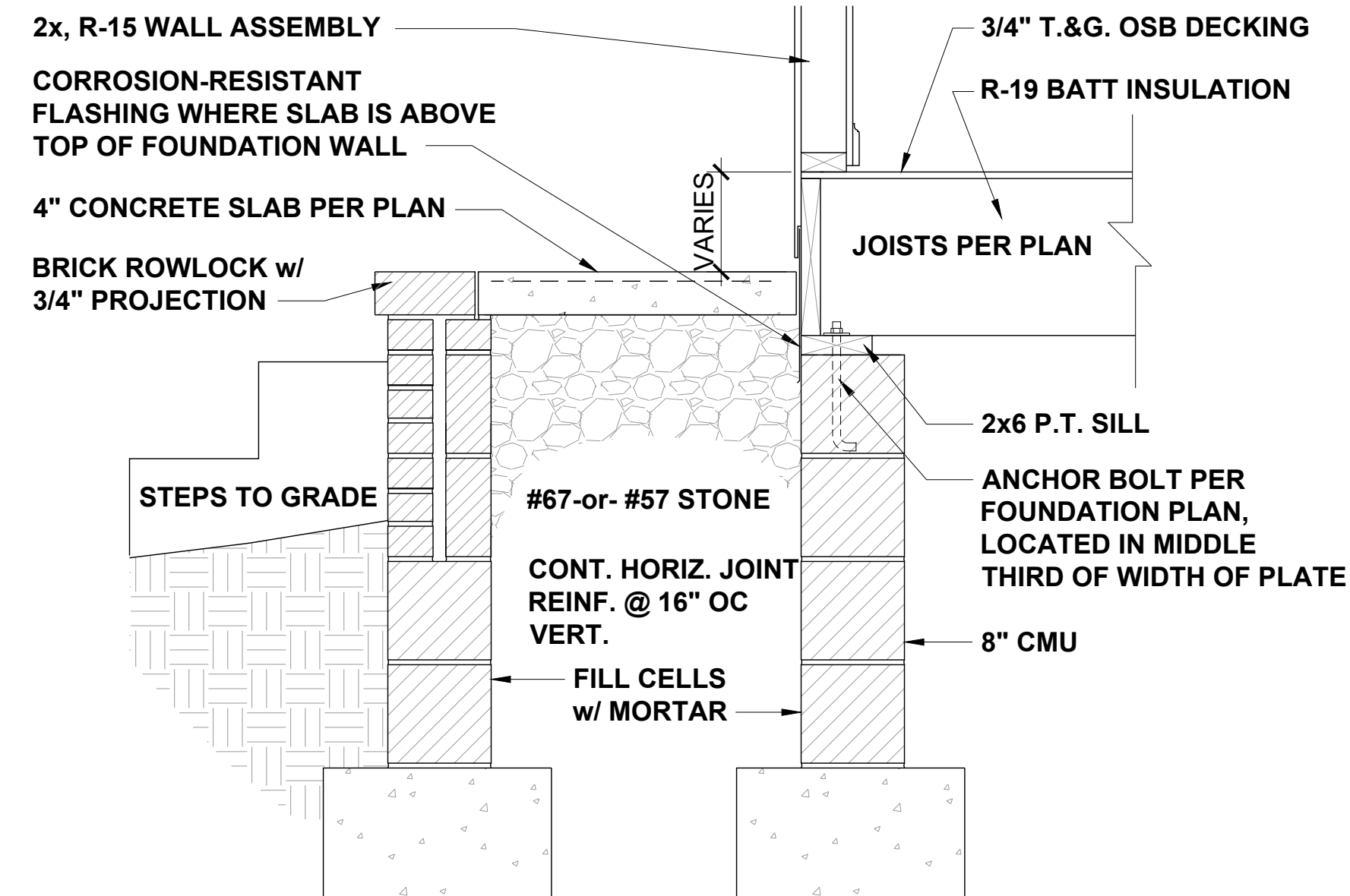
NOTE:
1/2" DRYWALL SEPARATION
F/CLG. & HEATED AREA WALLS.



GARAGE FOUNDATION

1/2" = 1'-0"

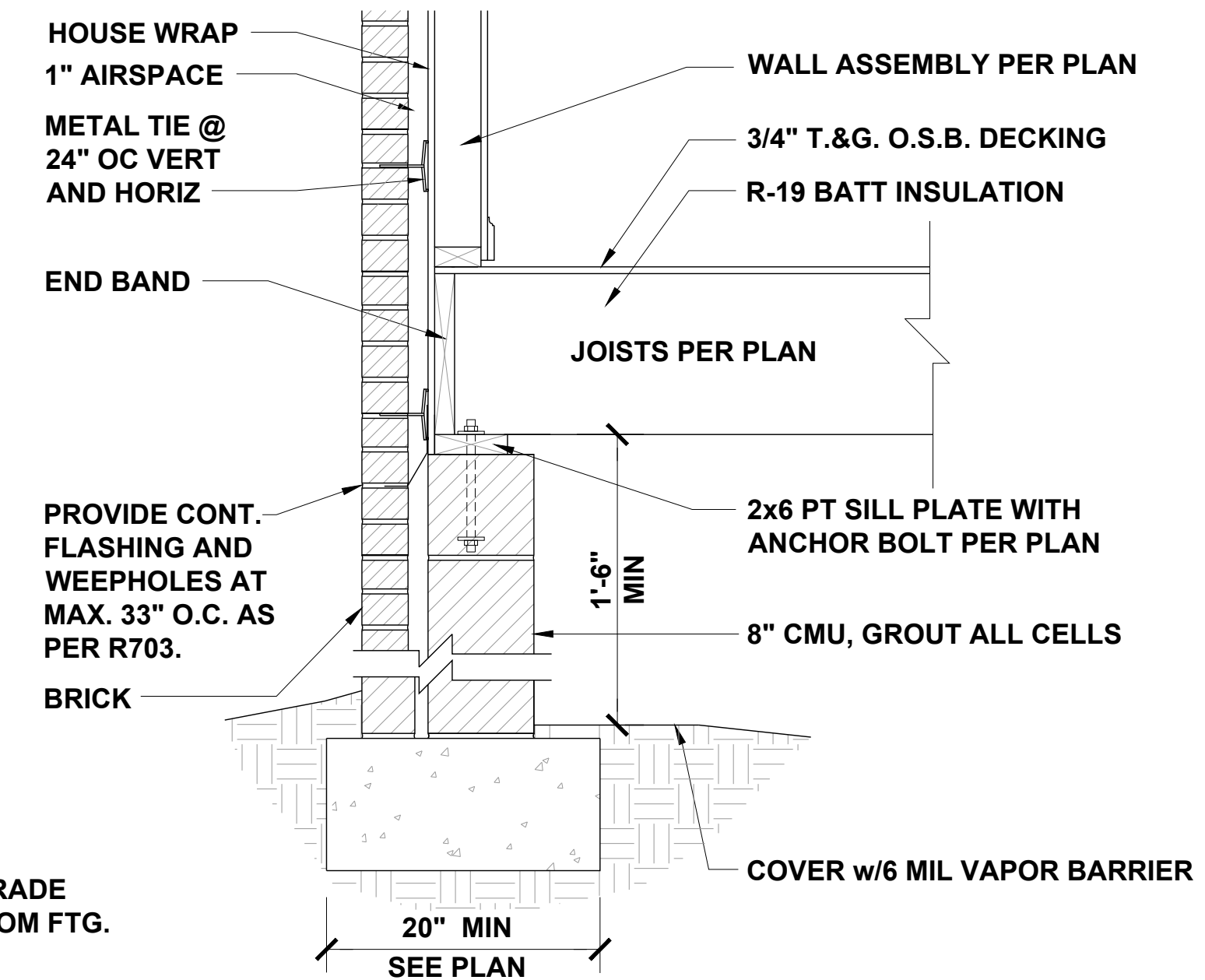
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FRONT PORCH SECTION

1/2" = 1'-0"

5

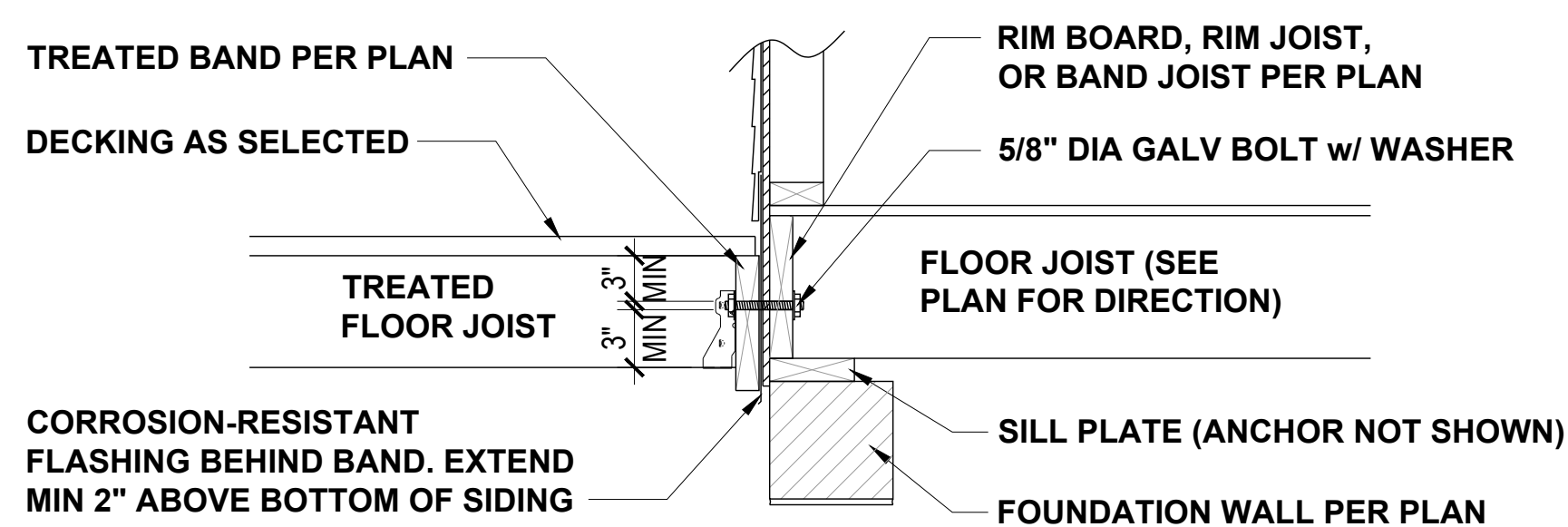


CRAWL AT EXTERIOR WALL

1/2" = 1'-0"

6

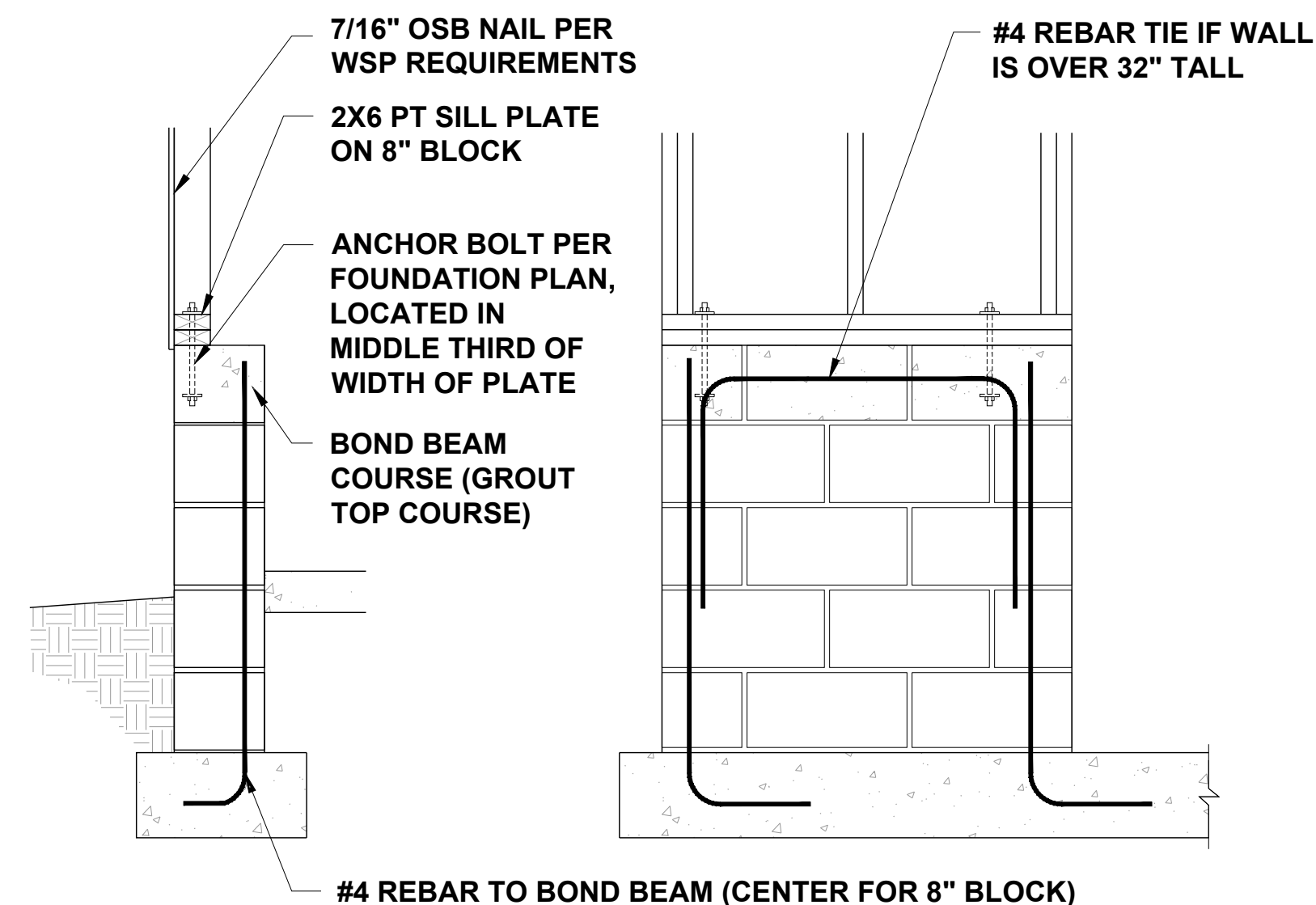
(3) 12d GALV. NAILS @ 6" O.C. AND 5/8" dia.
GALV. BOLTS W/ WASHER @ 20" O.C.
FOR BRICK VENEER STRUCTURES: 5/8" dia.
GALV. BOLTS W/ WASHER @ 16" O.C.



DECK ATTACHMENT

1/2" = 1'-0"

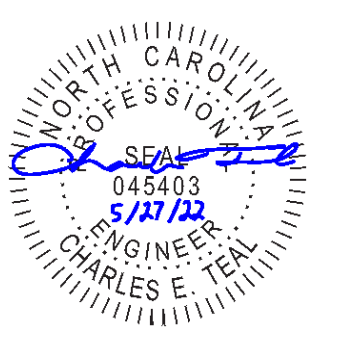
7



GARAGE WING WALL

3/8" = 1'-0"

8



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SHEET: DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL
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CLIENT: TRIANGLE BUILDING & PROPERTIES

PROJECT: BELMONT 2.0 LH

LOCATION: NORTH CAROLINA

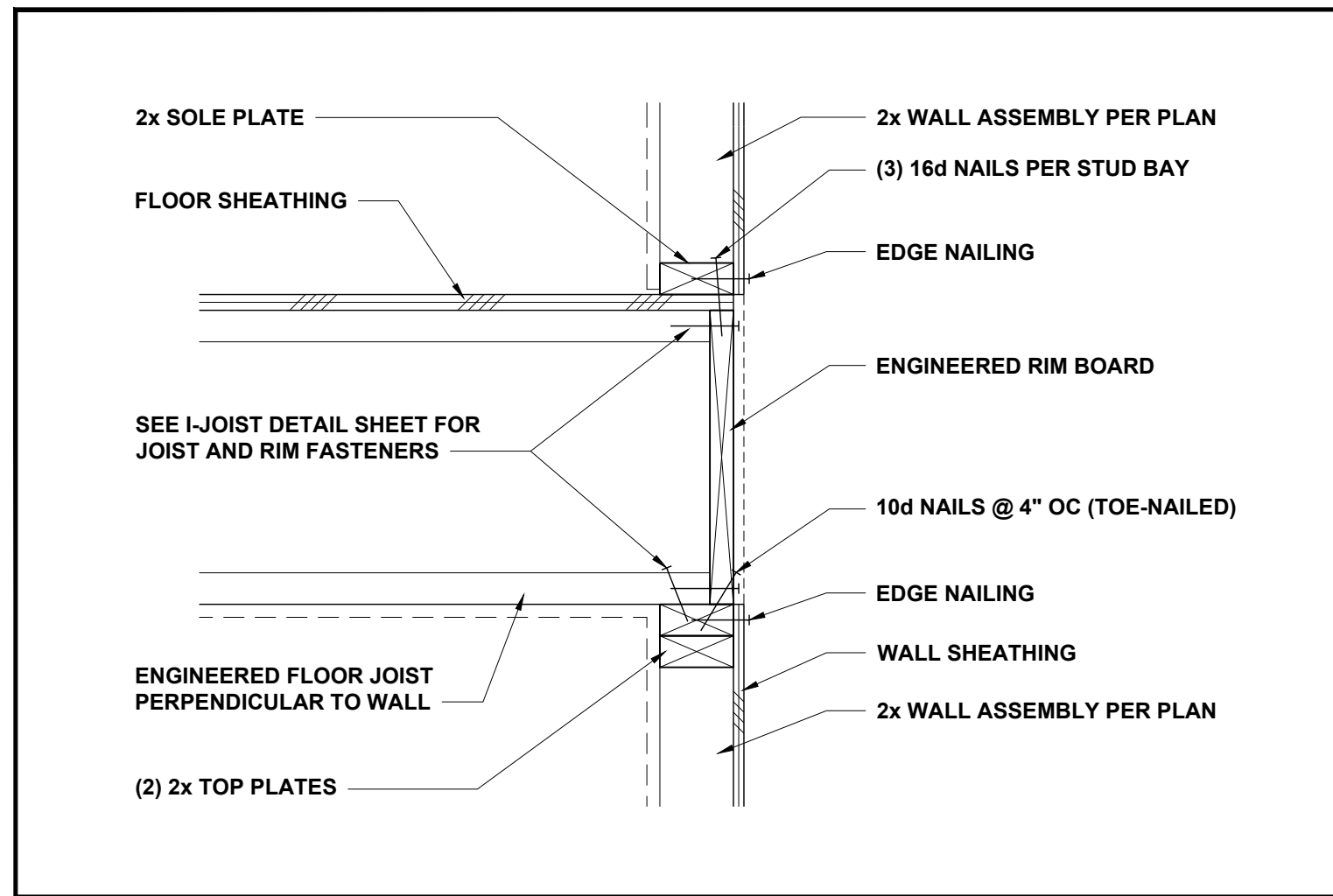
PROJECT NO.: 22900802

DATE: 05/27/2022 DRAWN BY: CAR

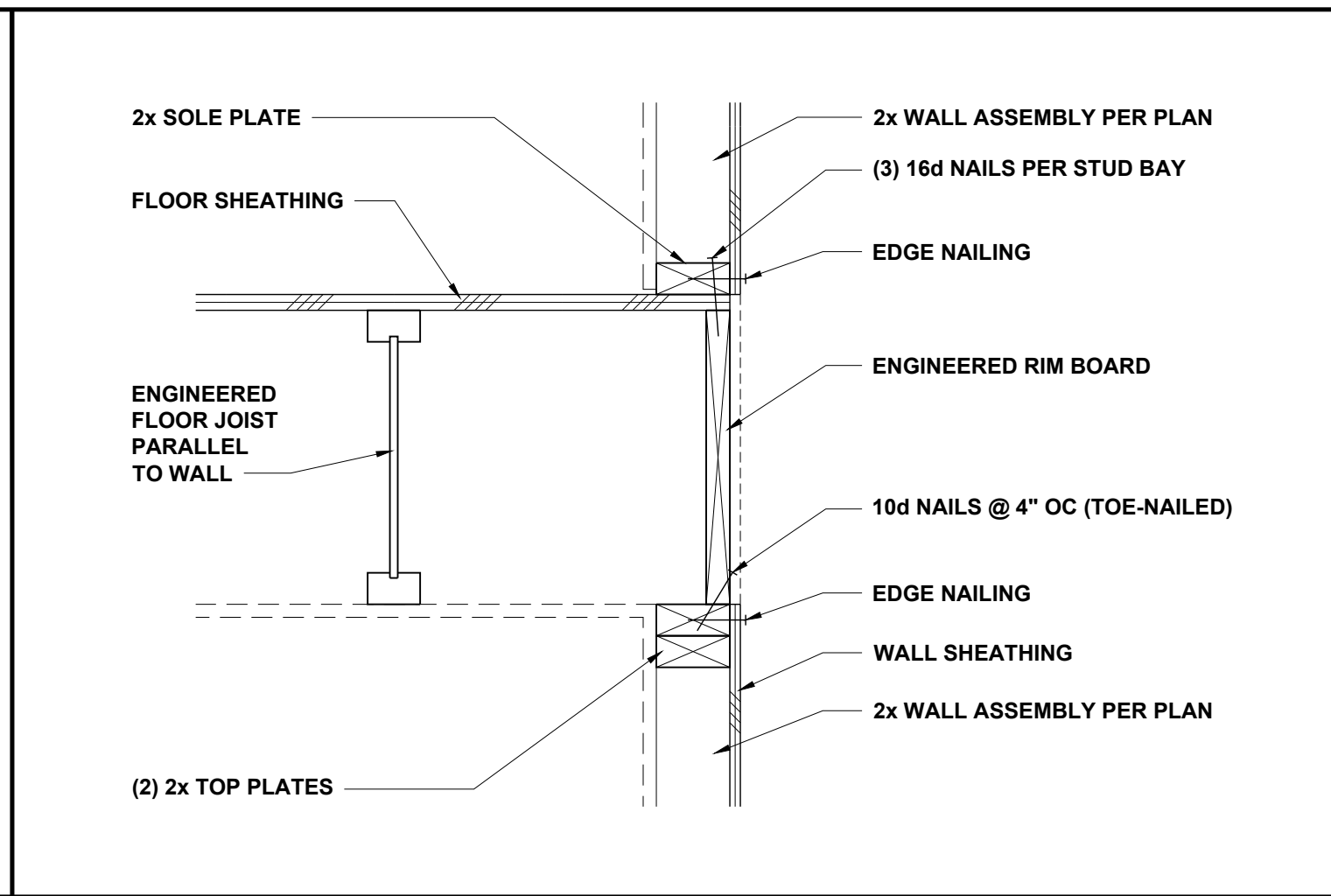
CRAWL SPACE
FOUNDATION
DETAILS

D1.0

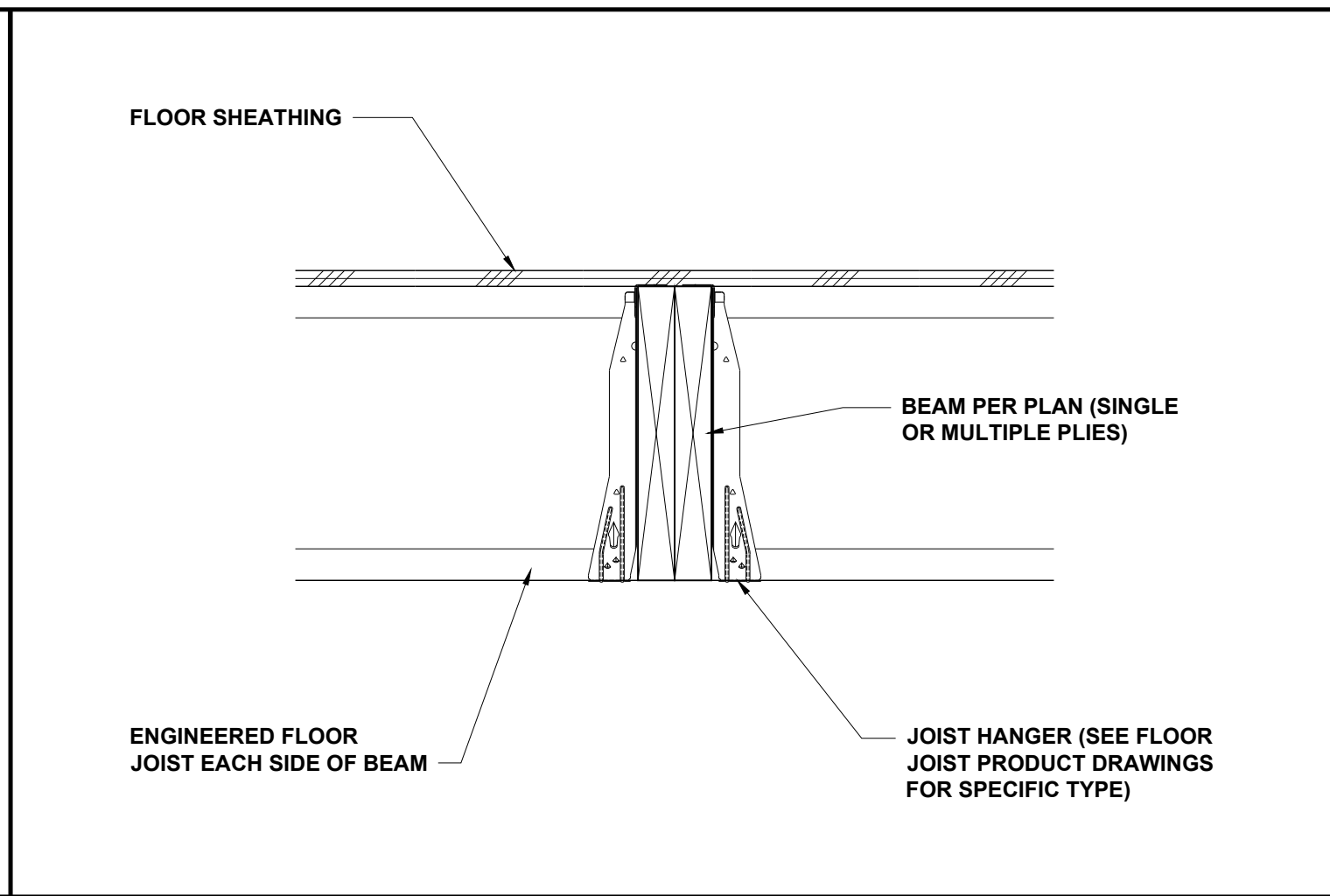
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED



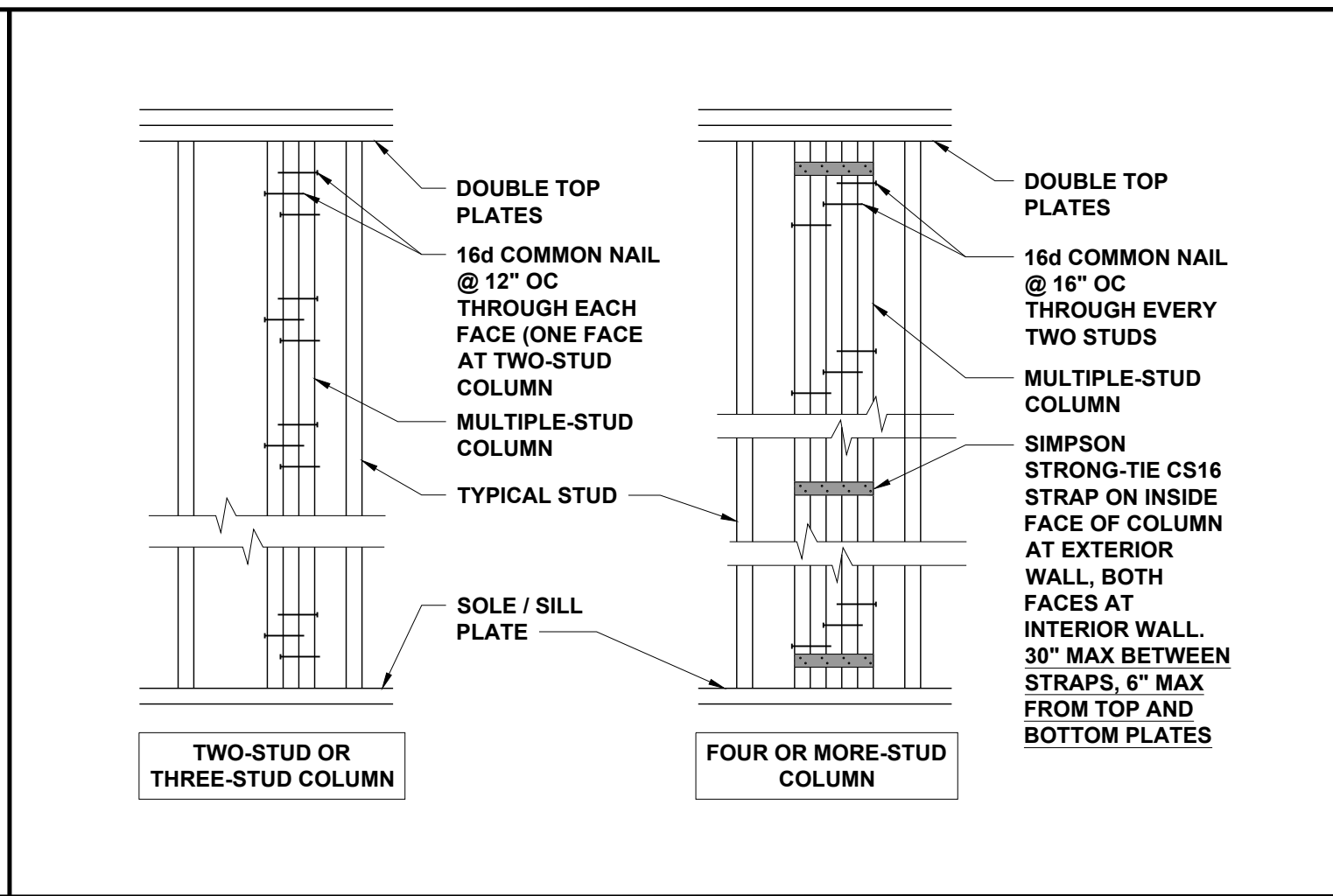
FLOOR JOISTS PERP TO WALL 1 1/2" = 1'-0" **1**



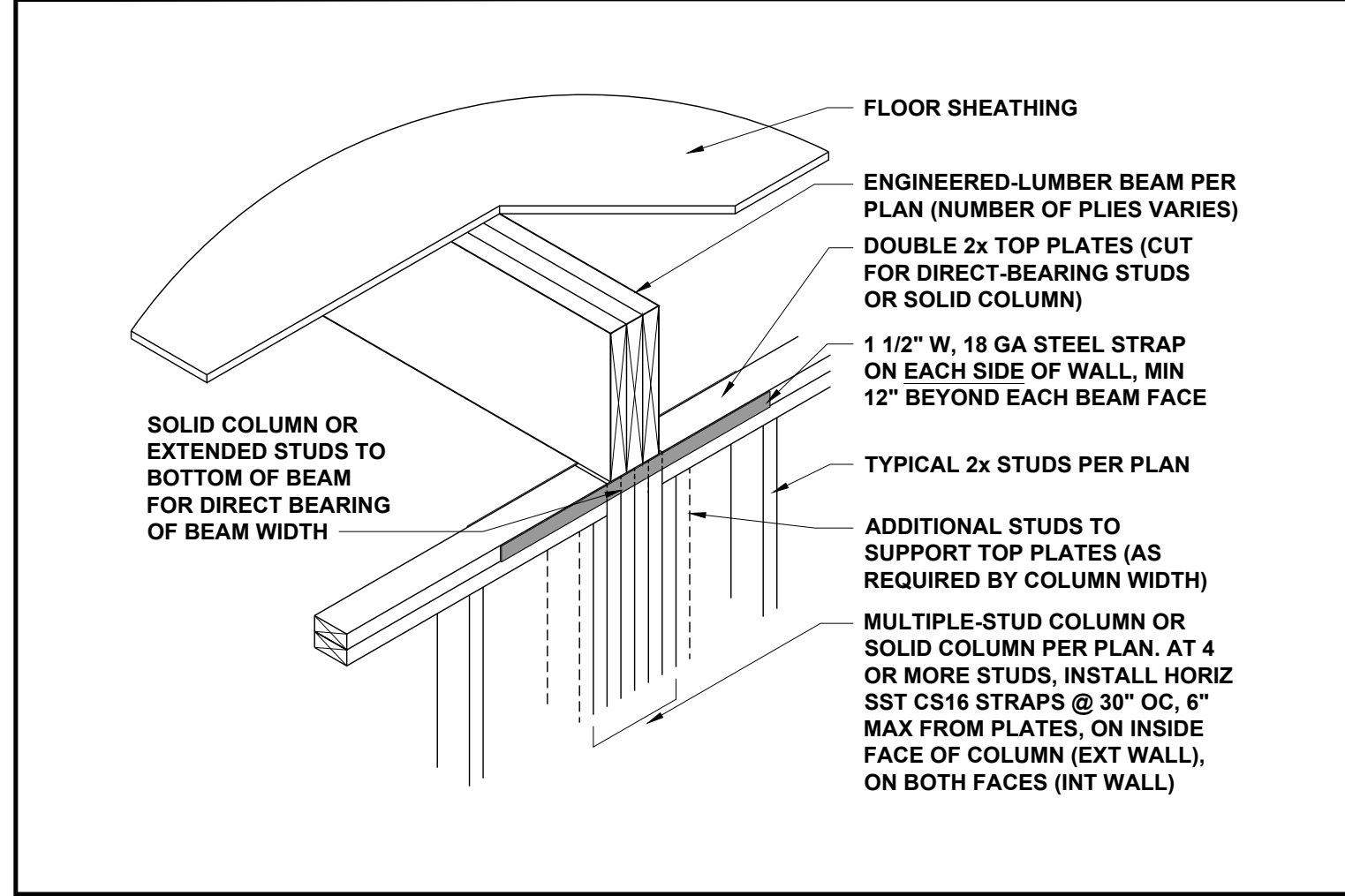
FLOOR JOISTS PARALLEL TO WALL 1 1/2" = 1'-0" **2**



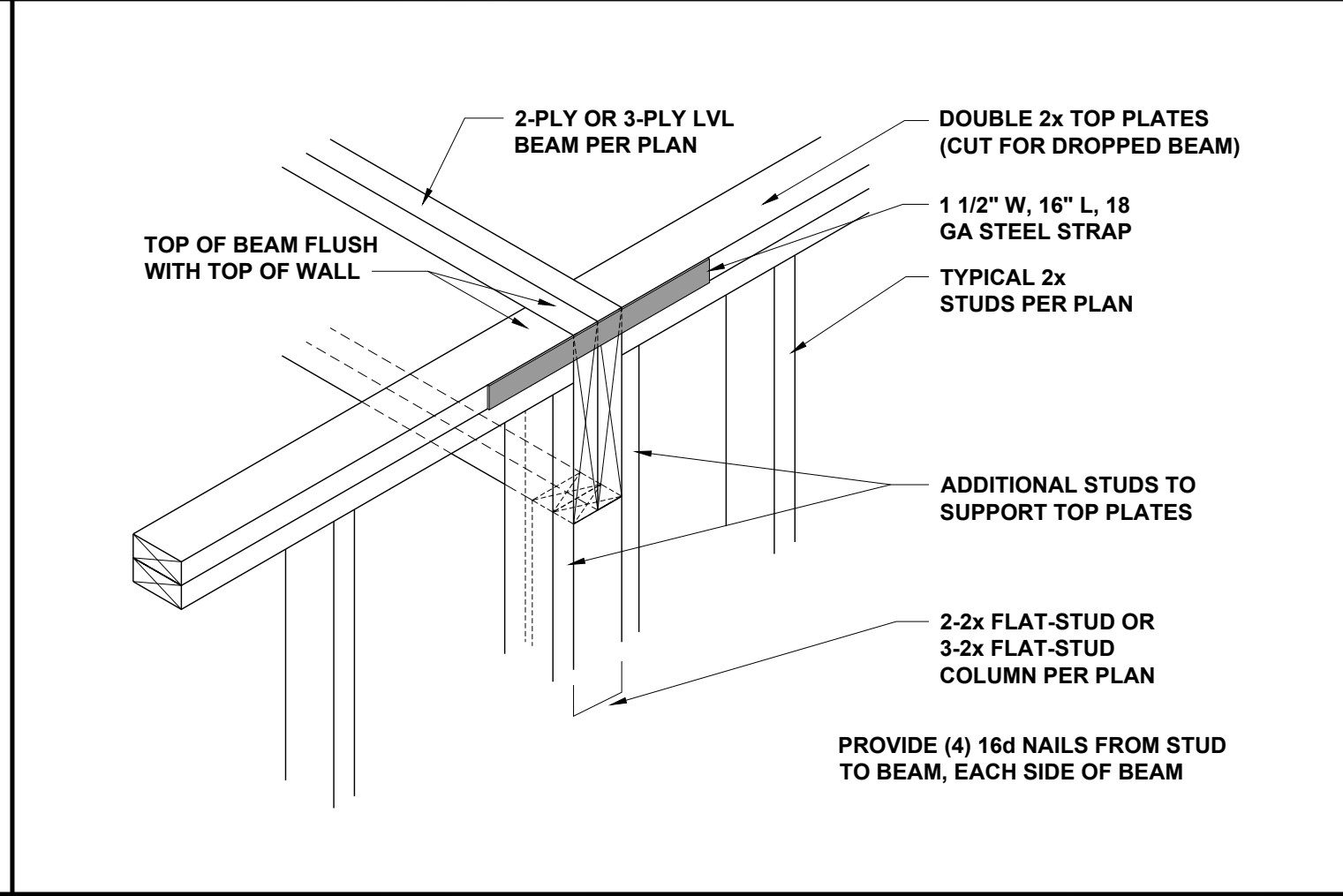
FLOOR JOISTS AT FLUSH BEAM NTS **3**



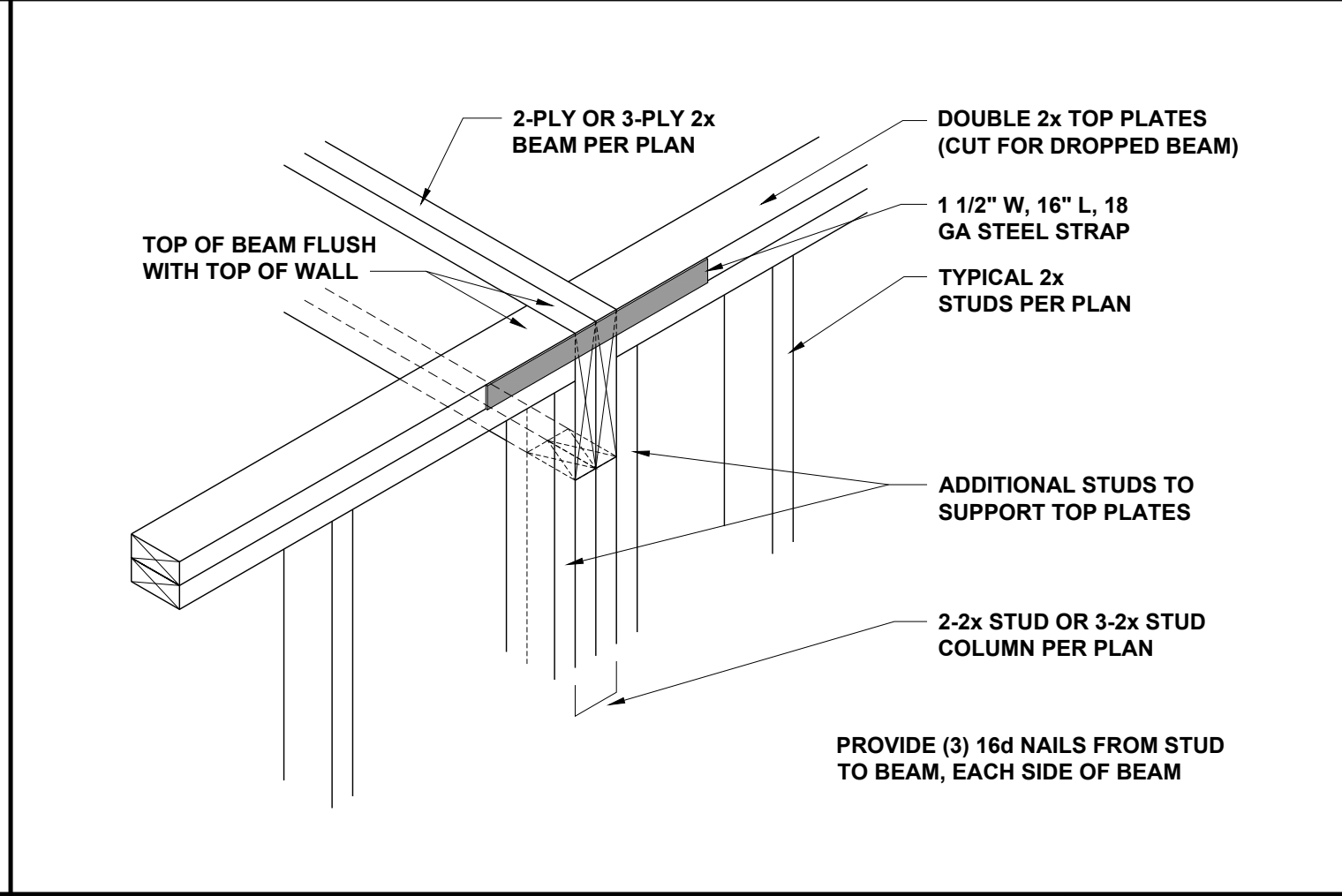
MULTIPLE-STUD COLUMN FASTENING 3/4" = 1'-0" **4**



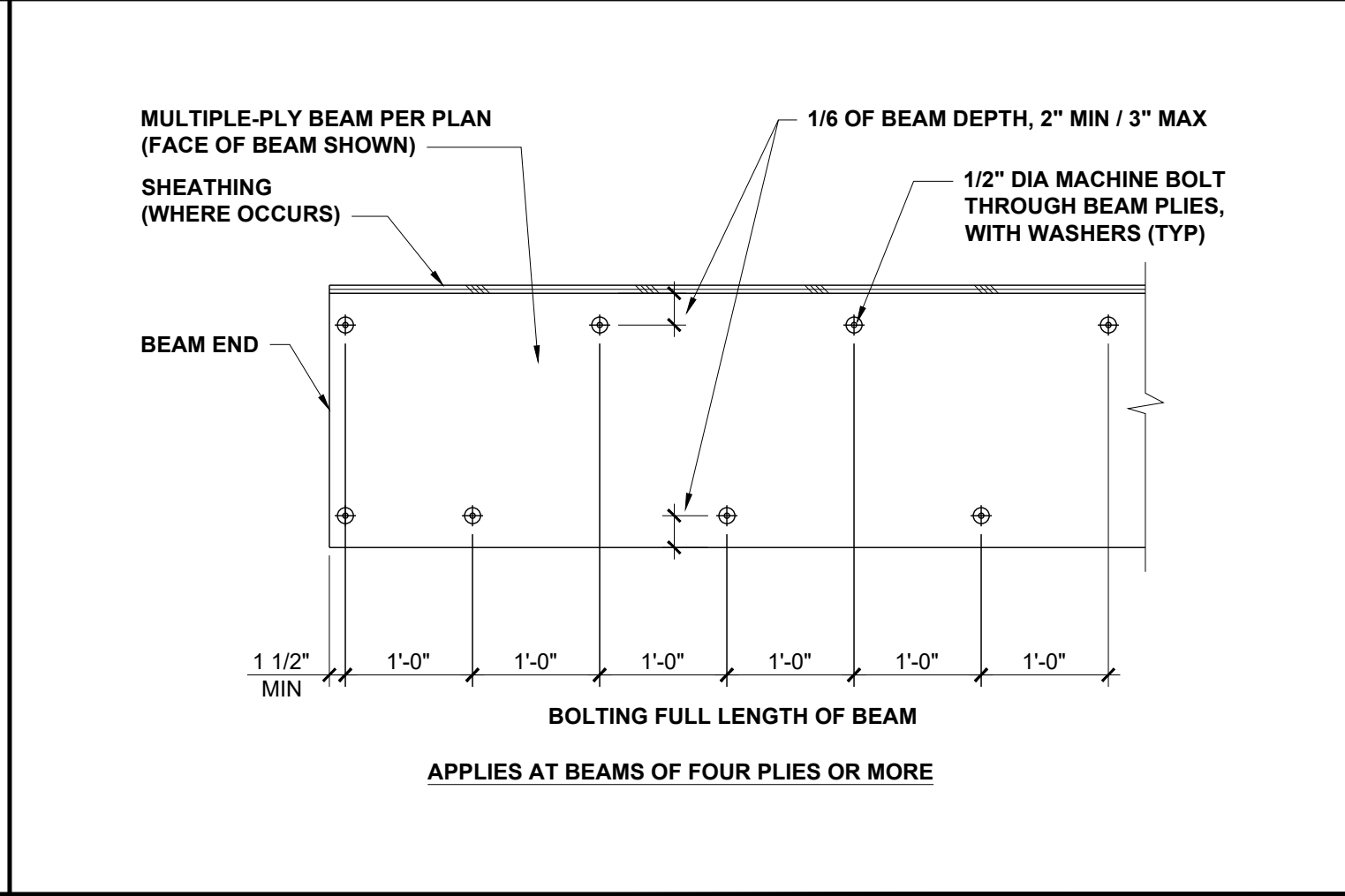
FLUSH BEAM AT WALL 3/4" = 1'-0" **5**



DROPPED LVL BEAM AT WALL NTS **6**



DROPPED 2x BEAM AT WALL NTS **7**



MULTIPLE-PLY BEAM BOLTING 3/4" = 1'-0" **8**

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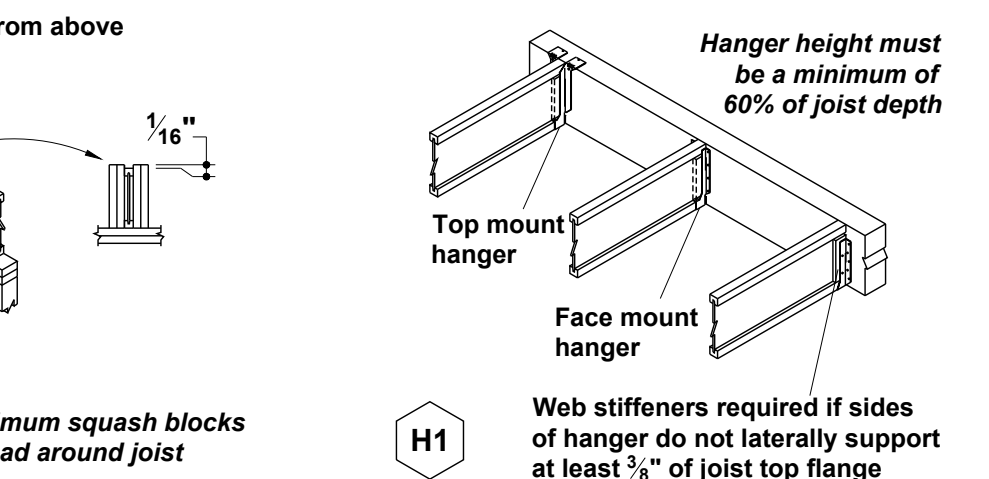
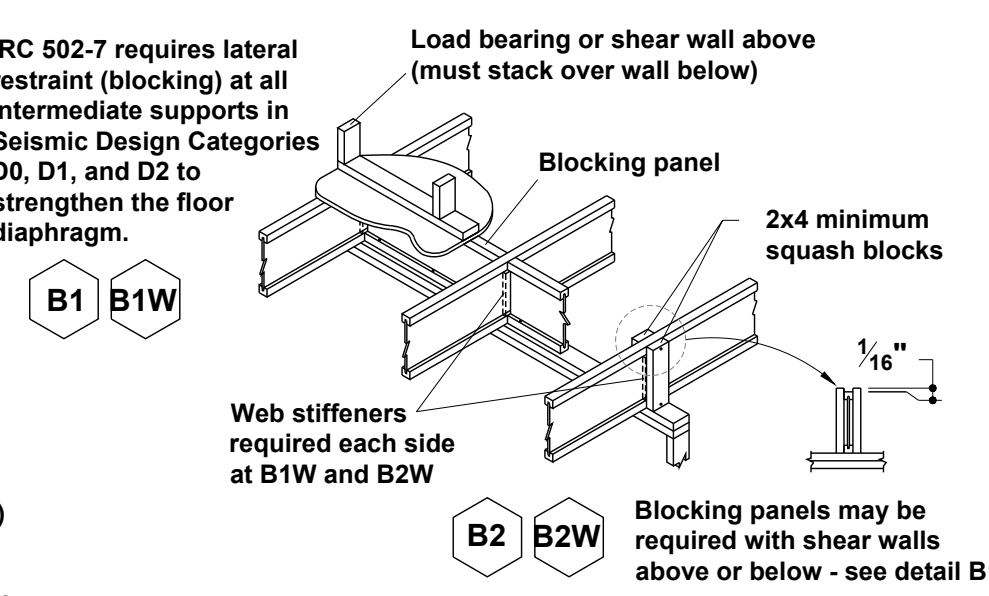
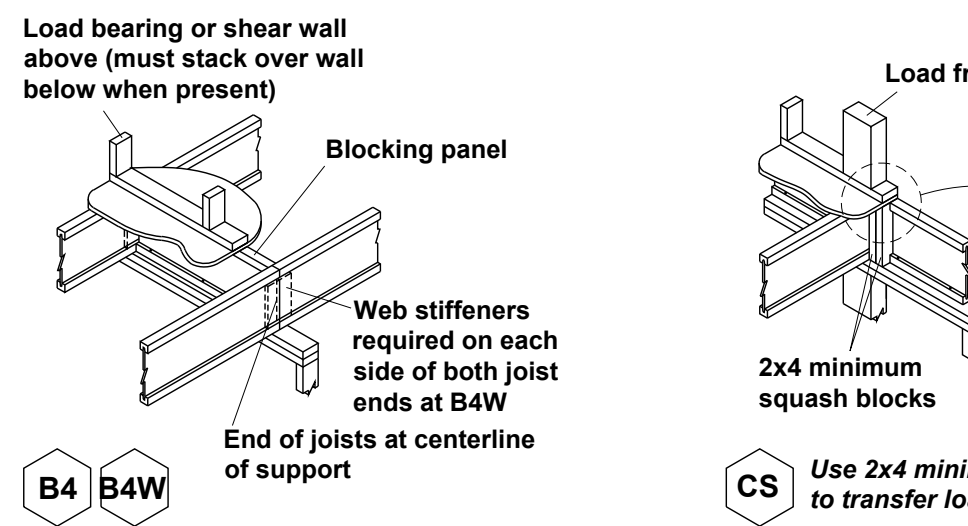
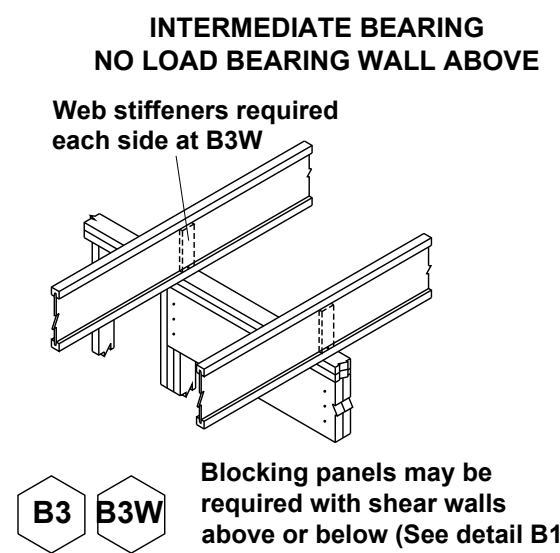
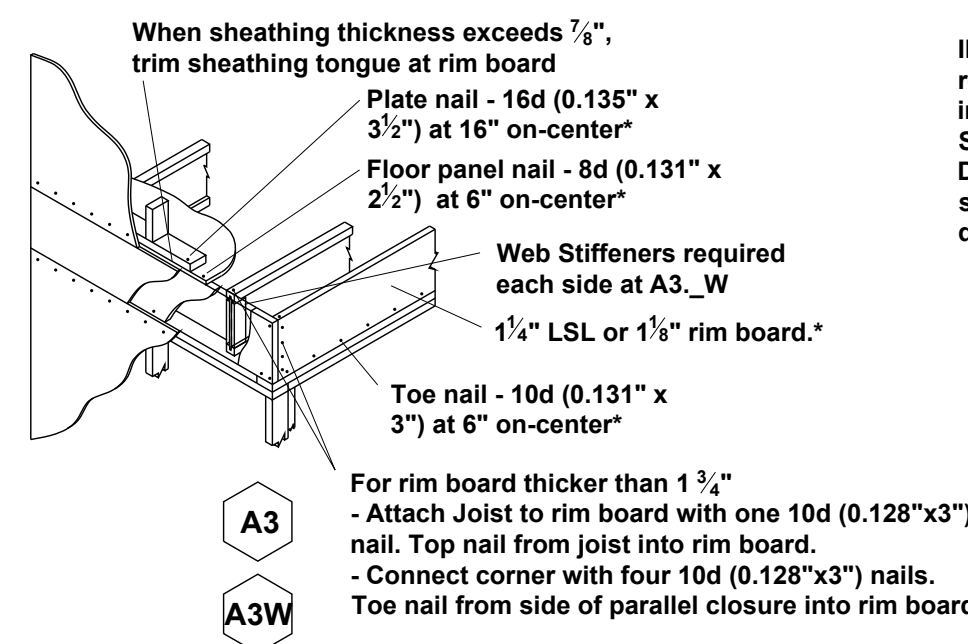
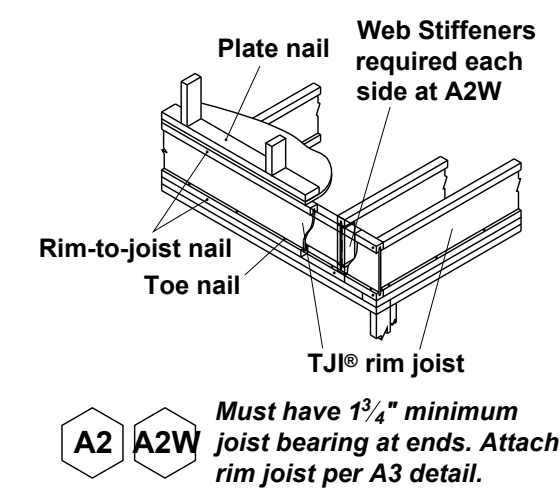
CLIENT: **TRIANGLE BUILDING & PROPERTIES**
 PROJECT: **BELMONT 2.0 LH**
 LOCATION: **NORTH CAROLINA**

PROJECT NO.: **22900802**
 DATE: **05/27/2022** DRAWN BY: **CAR**

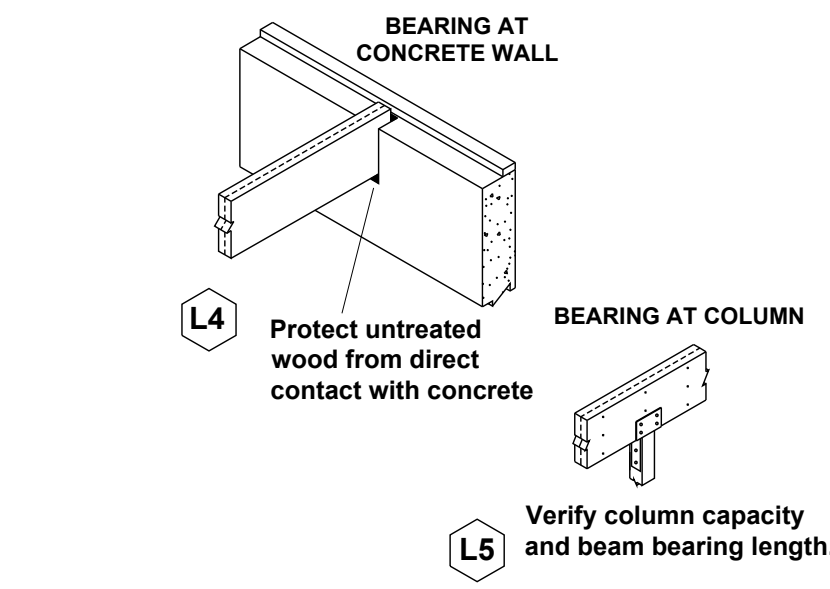
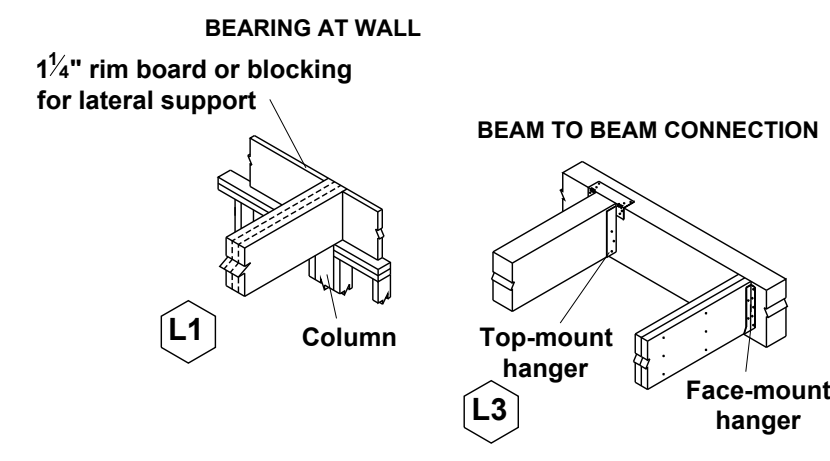
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

MISCELLANEOUS FRAMING DETAILS
D2.0

JOIST DETAILS



BEAM and COLUMN DETAILS



FASTENING of FLOOR PANELS

Guidelines for Closest On-Center Spacing per Row

Nail Size	I-JOIST*		Rim Board 1 1/4" LSL	1 1/2" LSL or wider	LVL	PSL
	110, 210, and 230 EQ.	360 and 560 EQ.				
8d (0.131" x 2 1/2")	4"	3"	4"	3"	3"	3"
10d (0.148" x 3"), 12d (0.148" x 3 1/4")	4"	4"	4"	4"	4"	4"
16d (0.162" x 3 1/2")	6"	6"	6" ⁽²⁾	6" ⁽²⁾	8"	6"

(1) One row of fasteners permitted (two at abutting panel edges) for diaphragms. Stagger nails when using 4" on-center spacing and maintain 3/8" joist and panel edge distance. For other applications, multiple rows of fasteners are permitted if the rows are offset at least 1/2" and staggered.
(2) Can be reduced to 4" on-center if nail penetration into the narrow edge is no more than 1 3/8" (to avoid splitting).

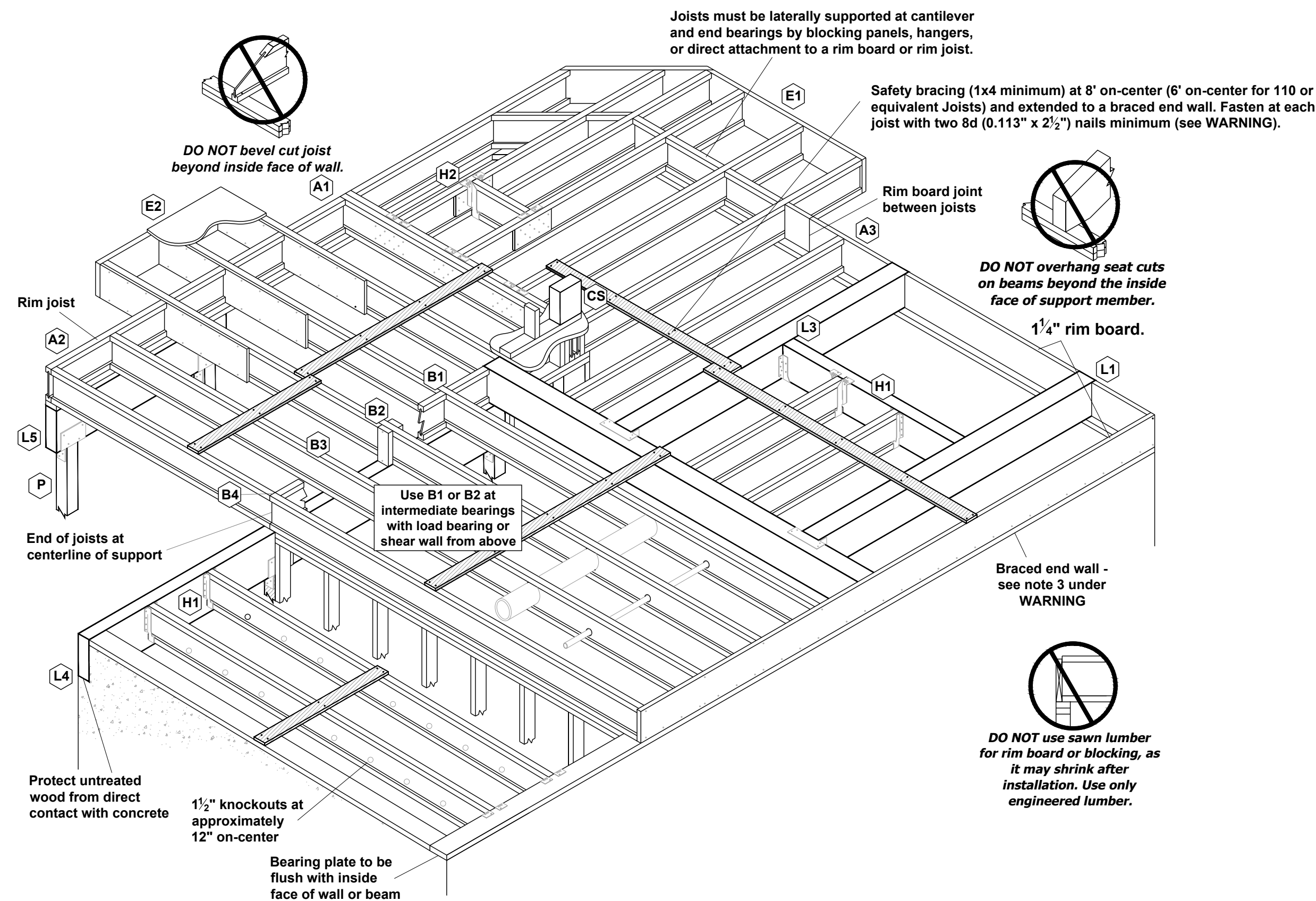
- Recommended nailing is 12" on-center in field and 6" on-center along panel edge. Fastening requirements on engineered drawings supersede recommendations listed above.
- Recommended use of a non-polyurethane subfloor adhesive on all contact points between panels and floor framing.
- Nailing rows must be offset at least 1/2" and staggered.
- 14 ga. staples may be substituted for 8d (0.113" x 2 1/2") nails if minimum penetration of 1" into the joist or rim board is achieved.
- Maximum spacing of nails is 18" on-center for joists.

* SEE I-JOIST EQUIVALENCY CHART

FILLER and BACKER BLOCK SIZES

I-Joists	110 EQ. *		210 EQ. *		230 or 360 EQ. *			560 EQ. *		
	Depth	9 1/2" or 11 7/8"	9 1/2" or 11 7/8"	14" or 16"	9 1/2" or 11 7/8"	14" or 16"	18" or 20"	11 7/8"	14" or 16"	18" or 20"
Filler Block ⁽¹⁾ (Detail H2)	2x6	2x8	2x6 + 3/8" sheathing	2x8 + 3/8" sheathing	2x6 + 1/2" sheathing	2x8 + 1/2" sheathing	2x12 + 1/2" sheathing	Two 2x6	Two 2x8	Two 2x12
Cantilever Filler (Detail E4)	2x6	2x10	2x6 + 3/8" sheathing	2x10 + 3/8" sheathing	2x6 + 1/2" sheathing	2x10 + 1/2" sheathing	Not applicable	Not applicable		
Backer Block ⁽¹⁾ (Detail F1 or H2)	5/8" or 3/4"	3/4" or 7/8"	3/4" or 7/8"		1" Net			2x6	2x8	2x12

(1) If necessary, increase filler and backer block height for face mount hangers and maintain 1/8" gap at top of joist; see detail W. Filler and backer block lengths should accommodate required nailing without splitting (12" minimum for backer blocks and 24" minimum for filler blocks).



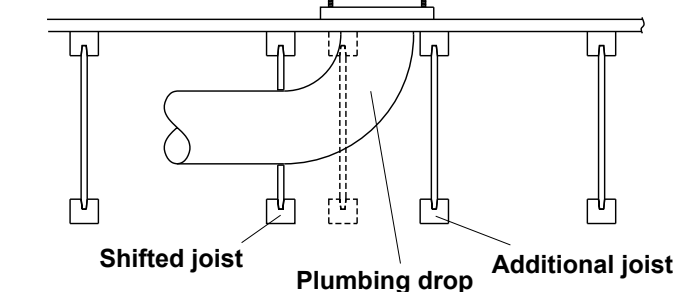
INSTALLATION TIPS

Subfloor adhesive will improve floor performance, but may not be required.

Squash blocks and blocking panels carry stacked vertical loads (details B1 and B2). Packing out the web of a joist (with web stiffeners) is not a substitute for squash blocks or blocking panels.

When joists are doubled at non-load bearing parallel partitions, space joists apart the width of the wall for plumbing or HVAC.

Additional joist at plumbing drop (see detail).

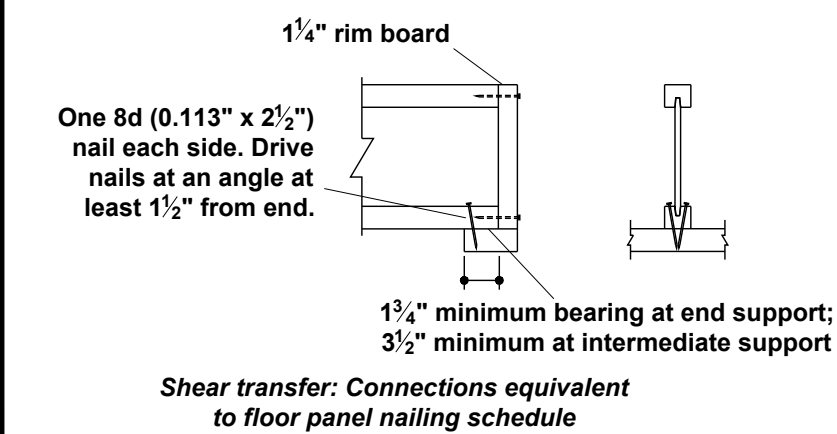


* I-JOIST EQUIVALENCY CHART

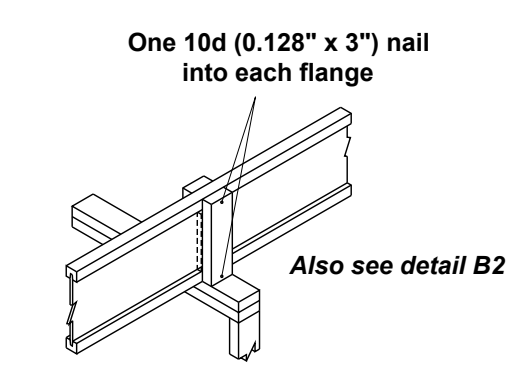
Depth	EQUIVALENT IN SPAN AND SPACING		
	Mfr & Series	Mfr & Series	Mfr & Series
9 1/2"	TJI - 110	BCI 4500	
	TJI - 210	BCI 5000	EverEdge 20
	TJI - 230	BCI 6000	EverEdge 20
11 7/8"	TJI - 110	BCI 4500	
	TJI - 210	BCI 5000	EverEdge 20
	TJI - 230	BCI 6000	EverEdge 20
	TJI - 360	BCI 60'S	EverEdge 30
	TJI - 560	BCI 90'S	EverEdge 50/60
	TJI - 110	BCI 4500	
14"	TJI - 210	BCI 5000	EverEdge 20
	TJI - 230	BCI 6000	EverEdge 20
	TJI - 360	BCI 60'S	EverEdge 30
16"	TJI - 560	BCI 90'S	EverEdge 50/60
	TJI - 110	BCI 4500	
	TJI - 210	BCI 5000	EverEdge 20
	TJI - 230	BCI 6000	EverEdge 20
	TJI - 360	BCI 60'S	EverEdge 30
	TJI - 560	BCI 90'S	EverEdge 50/60

JOIST NAILING REQUIREMENTS at BEARING

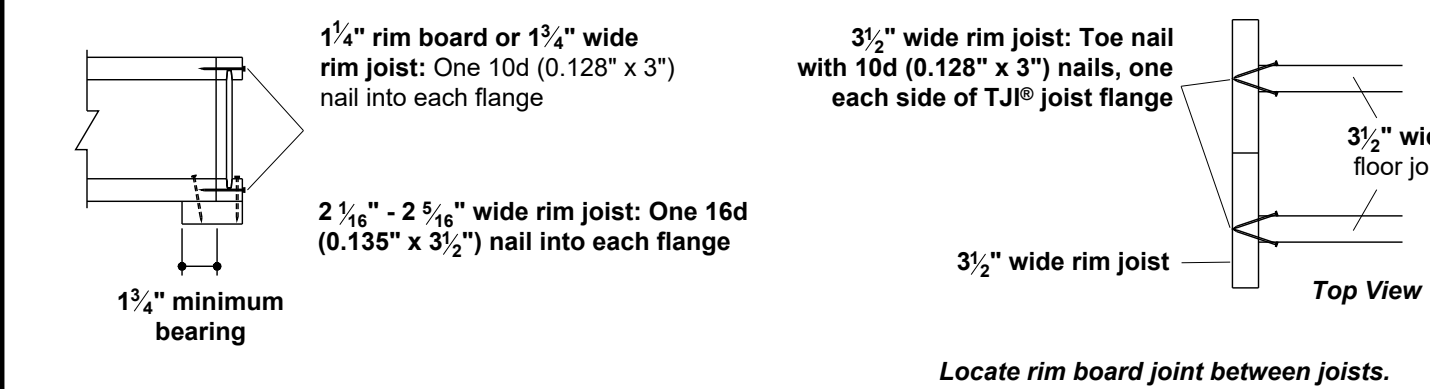
Joist to Bearing Plate



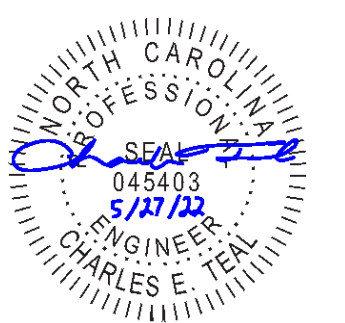
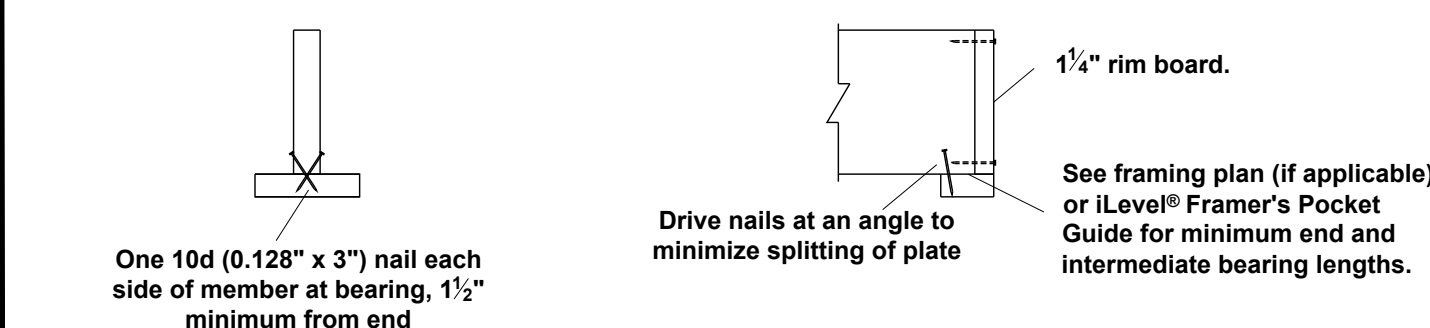
Squash Blocks to Joist (Load bearing wall above)



RIM TO JOIST



BEAM ATTACHMENT at BEARING



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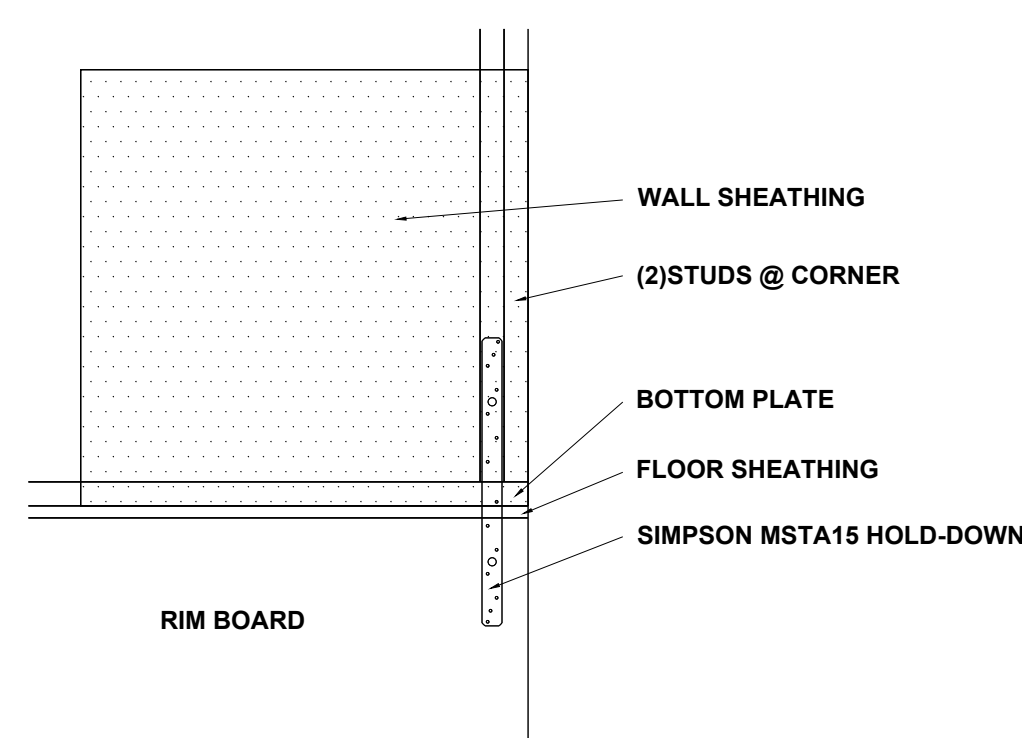
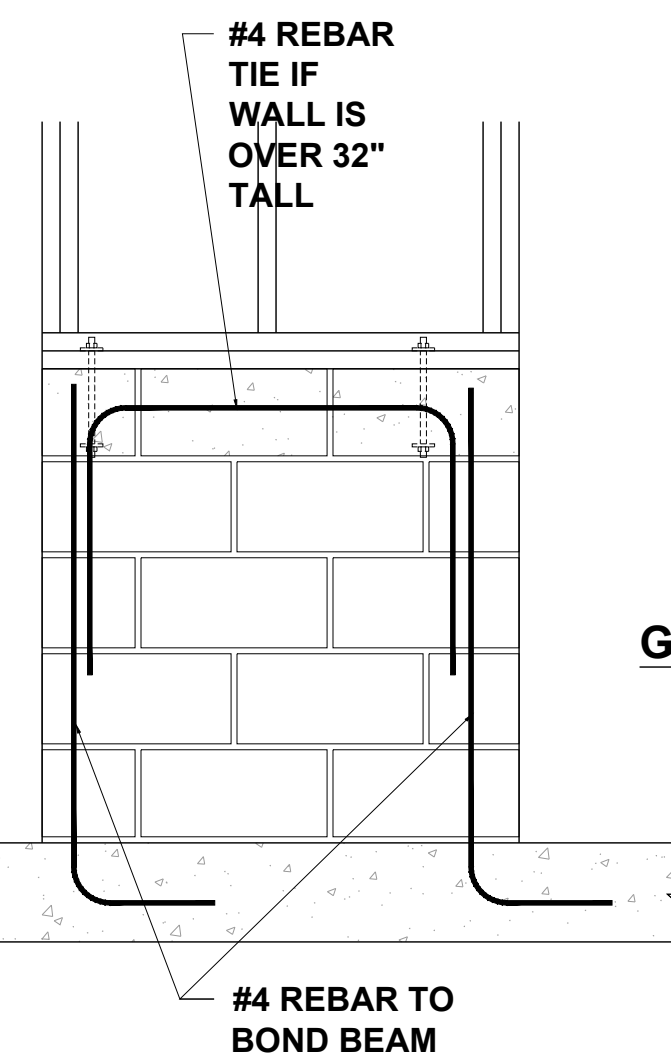
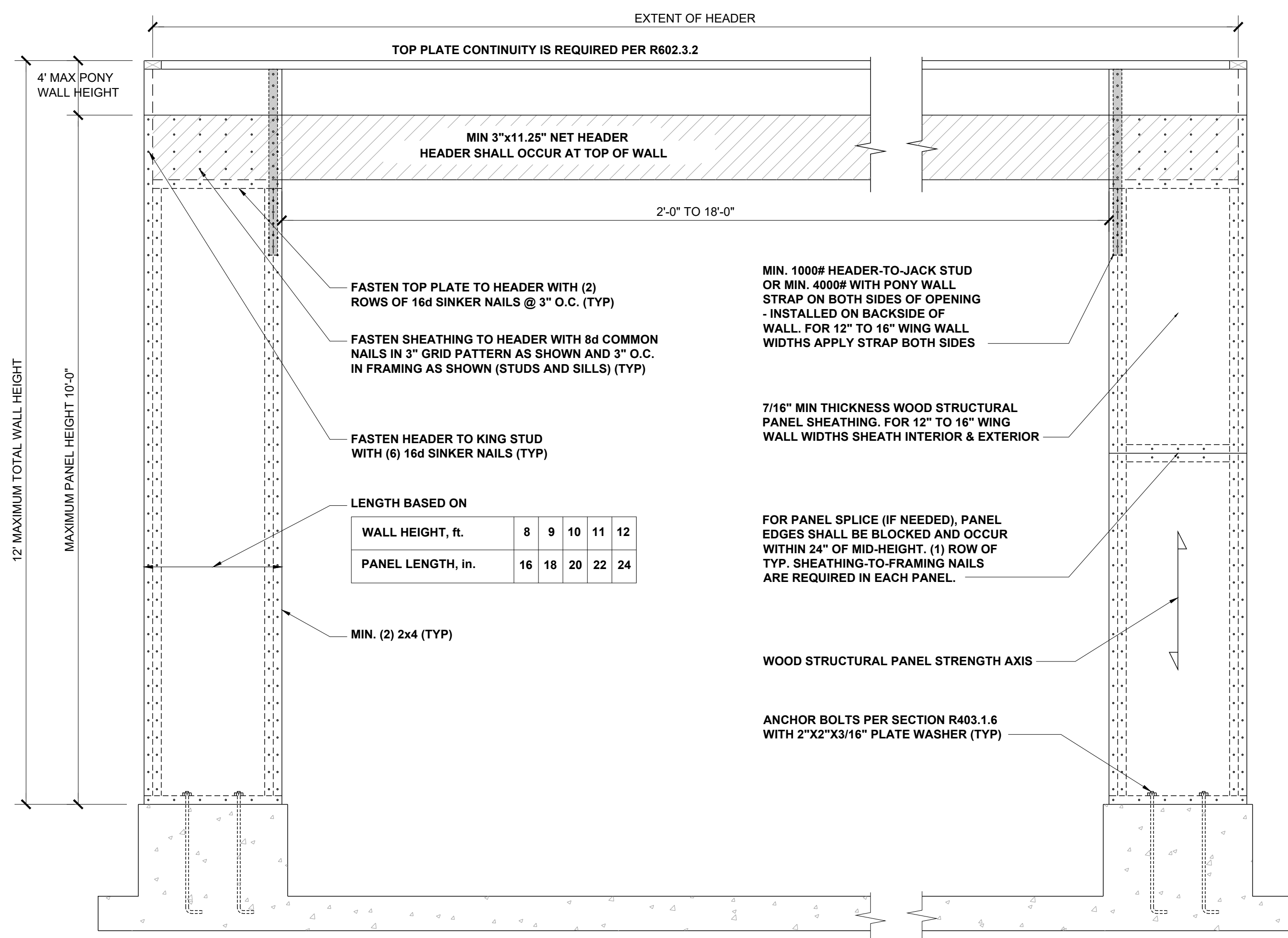
CLIENT:	TRiangle BUILDING & PROPERTIES
PROJECT:	BELMONT 2.0 LH
LOCATION:	NORTH CAROLINA

SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PROJECT NO.:	22900802
DATE:	05/27/2022
DRAWN BY:	CAR

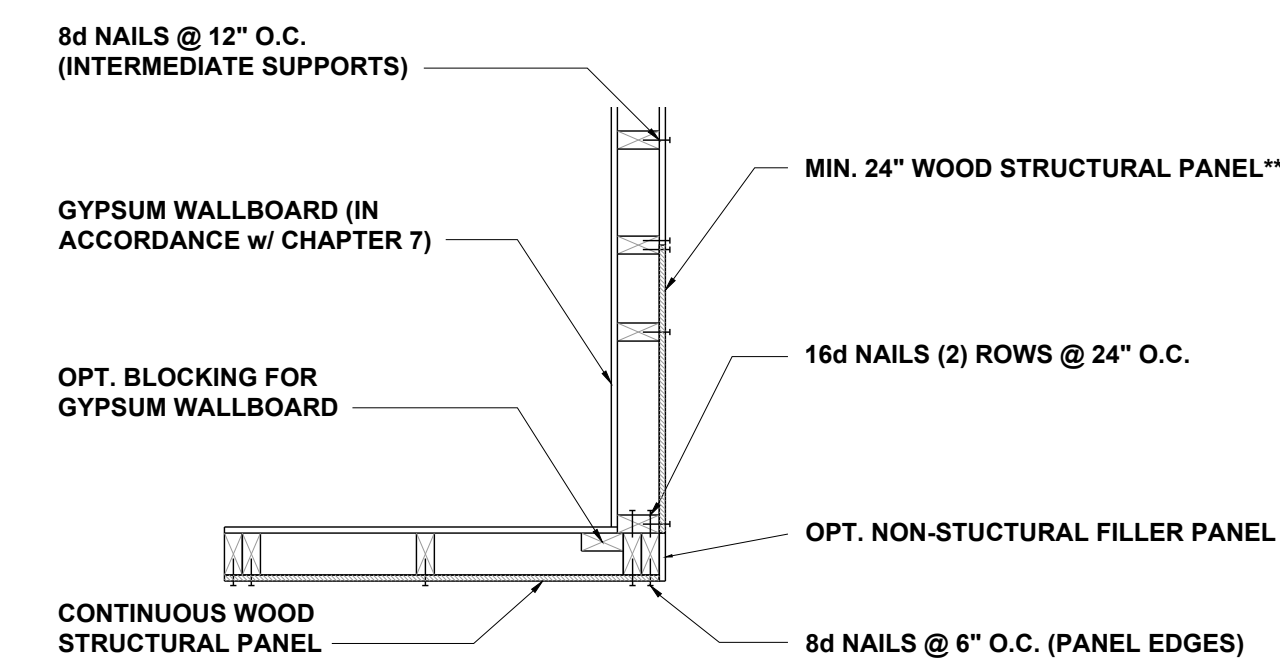
ENGINEERED JOIST DETAILS

D3.0

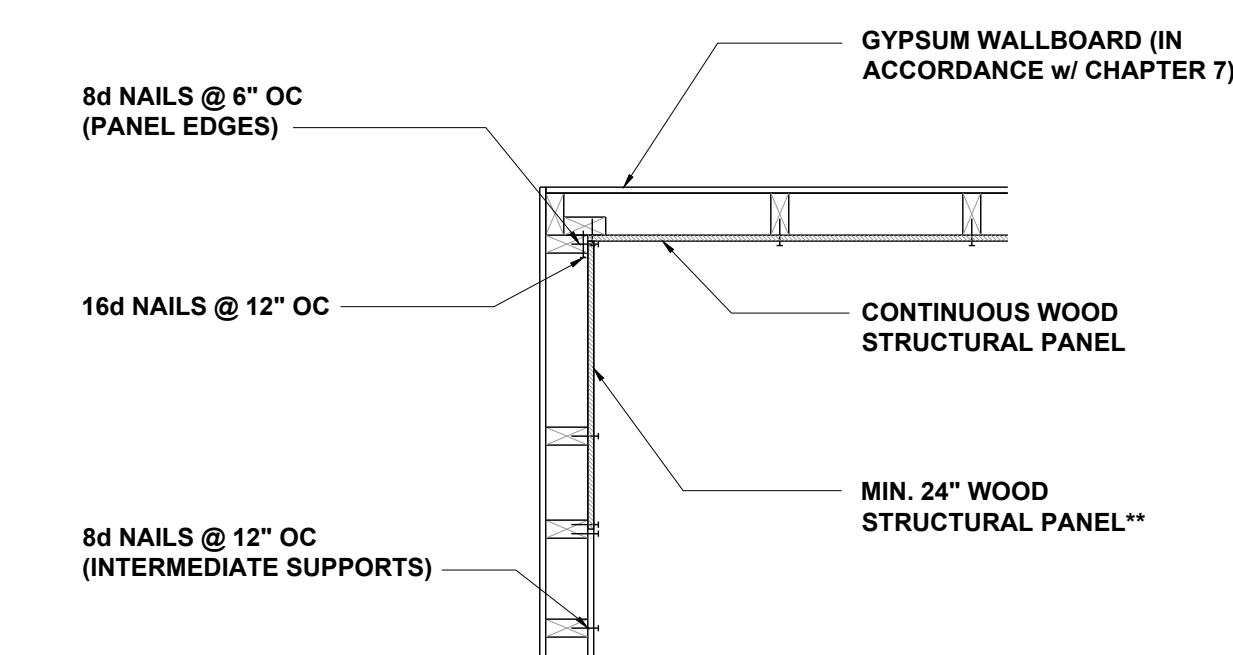


▶ SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL.

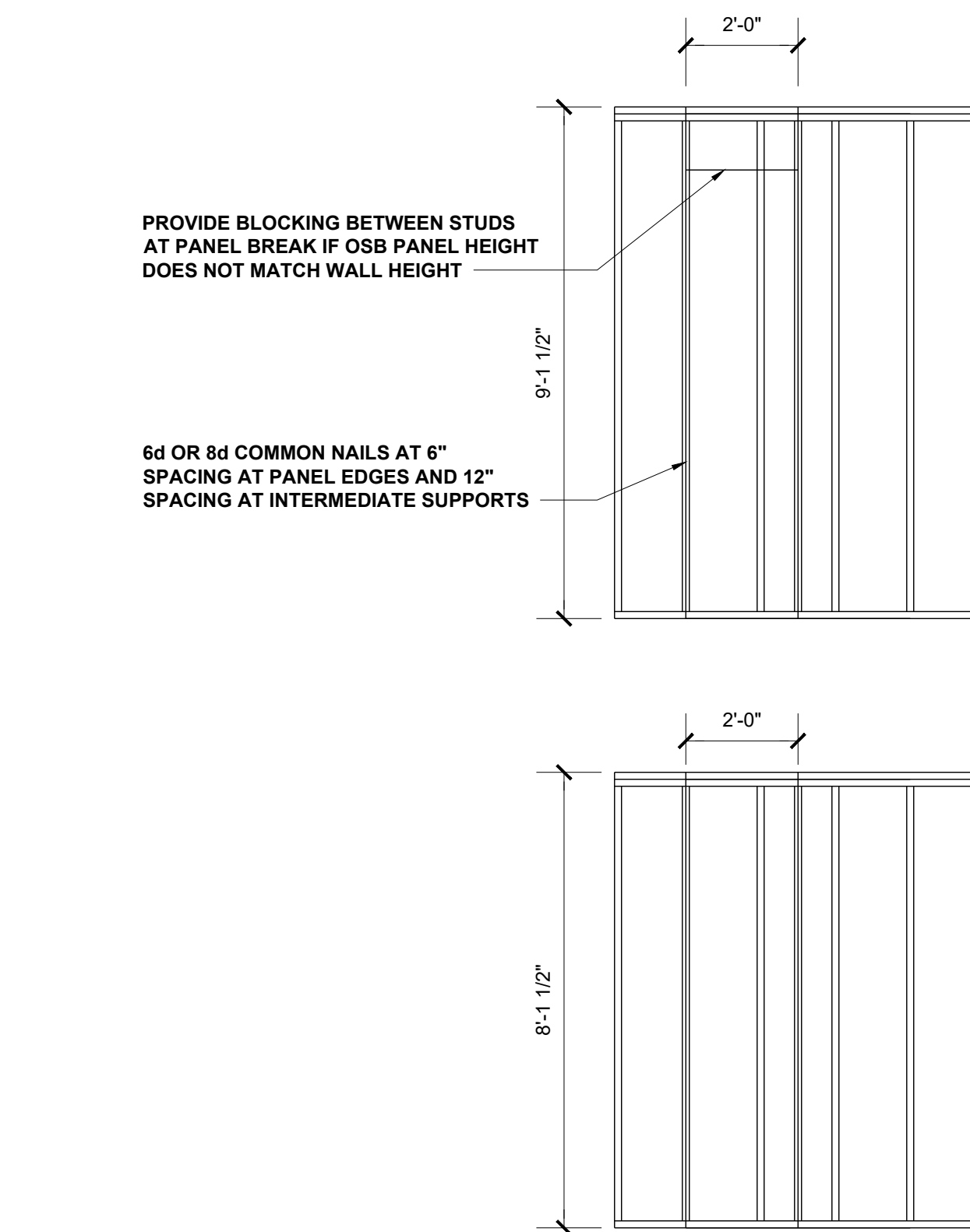
METHOD PF: PF PANEL CONSTRUCTION 3/4" = 1'-0" **1**



A) GARAGE DOOR CORNER



D) ALTERNATE INSIDE CORNER DETAIL

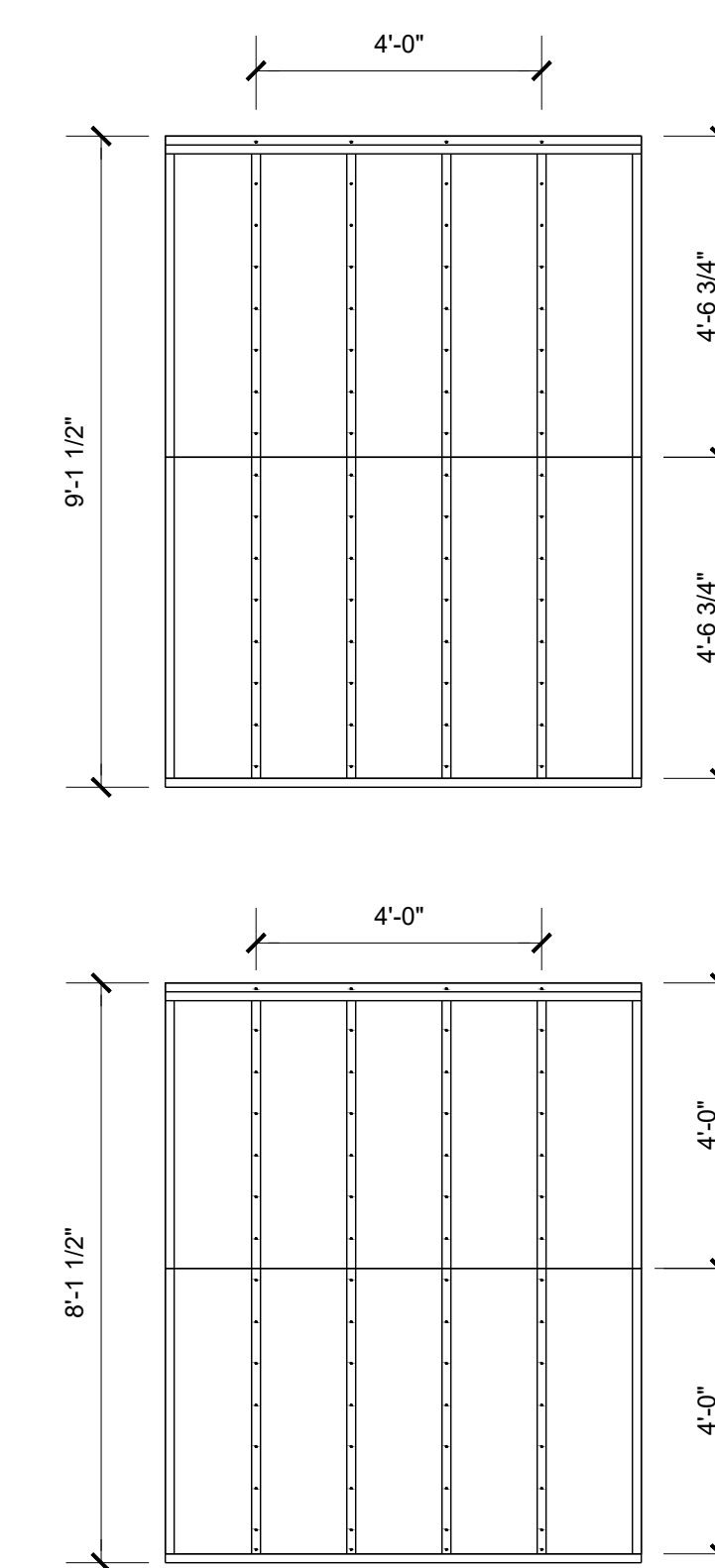


CS-WSP - WOOD STRUCTURAL PANEL (CONTINUOUSLY SHEATHED)

BRACED WALL PANEL 7/16" MIN OSB SHEATHING ON ONE SIDE OF WALL. MINIMUM PANEL LENGTH 24".

HIGH-SPEED WIND ZONES

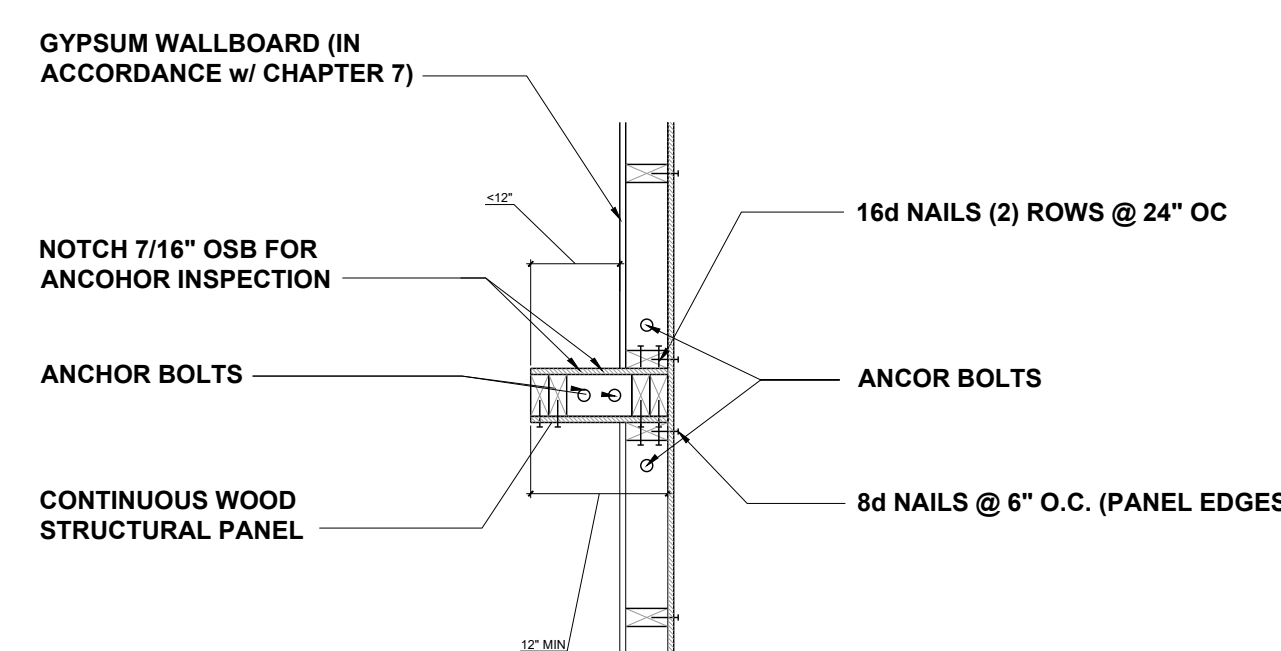
FOR LOCATIONS OF 130 MPH OR MORE ULTIMATE DESIGN WIND SPEED (110 MPH OR MORE BASIC WIND SPEED IN VIRGINIA AND GEORGIA), WALLS SHALL BE BRACED PER THE LATEST ADOPTED EDITION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION ASCE 7 OR STANDARD FOR RESIDENTIAL CONSTRUCTION IN HIGH-WIND REGIONS (ICC 600).



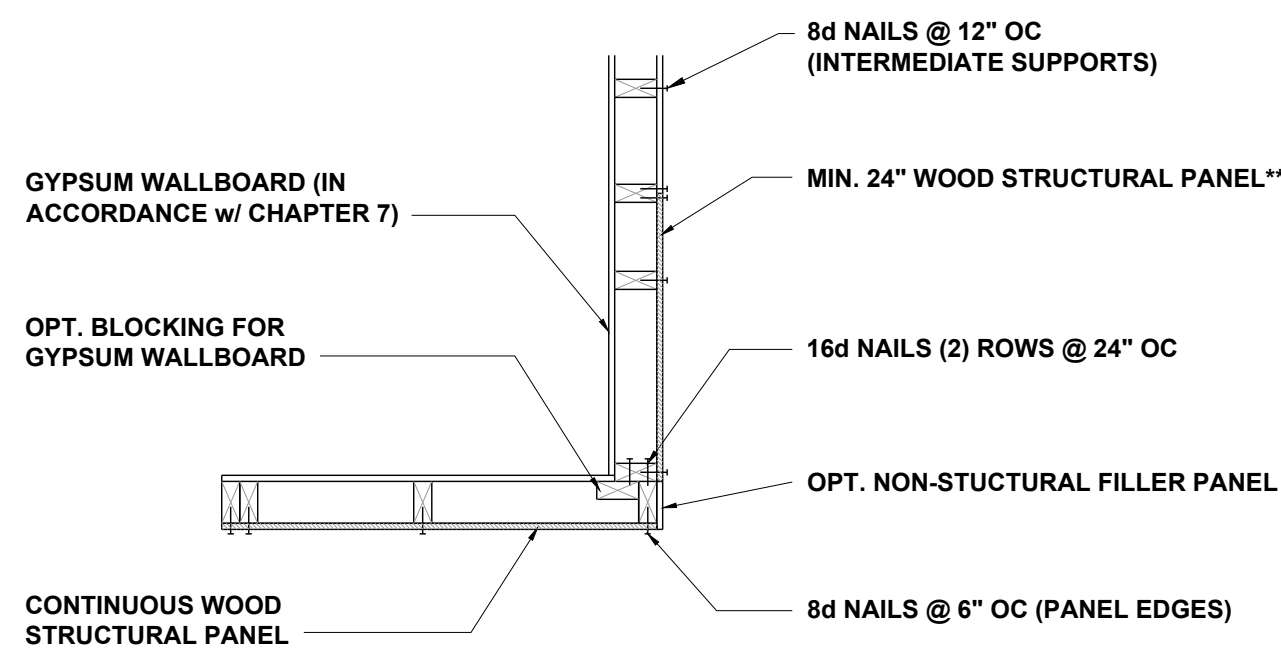
GB - GYPSUM BOARD

BRACED WALL PANEL 1/2" GYPSUM BOARD NAILED TO STUDS AT 7" OC USING 5d COOLER NAILS OR #6 SCREWS. MINIMUM PANEL LENGTH 48" WHEN APPLIED TO BOTH SIDES OF WALL AND 96" WHEN APPLIED TO ONE SIDE OF WALL.

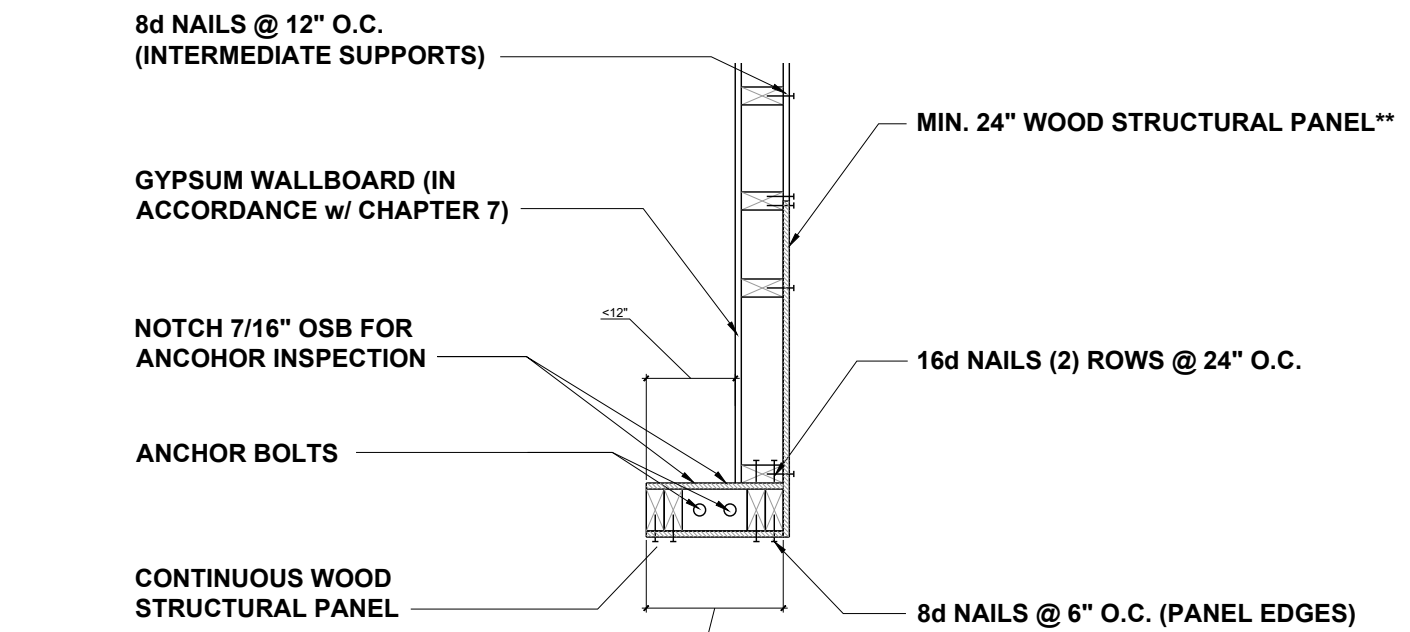
BRACING METHODS 3/8" = 1'-0" **2**



B) GARAGE T-WALL PORTAL FRAMING 16"-12"



E) ALTERNATE OUTSIDE CORNER DETAIL

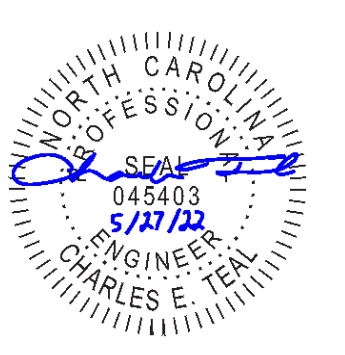


C) GARAGE DOOR CORNER PORTAL FRAMING 16"-12"

** IN LIEU OF THE CORNER RETURN, A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE CORNER STUD AND TO THE FOUNDATION OR FRAMING BELOW.

BRACED WALL HOLD-DOWN 1" = 1'-0" **3**

CORNER FRAMING FOR CONTINUOUS SHEATHING 3/4" = 1'-0" **4**



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CLIENT: **TRIANGLE BUILDING & PROPERTIES**

PROJECT: **BELMONT 2.0 LH**

LOCATION: **NORTH CAROLINA**

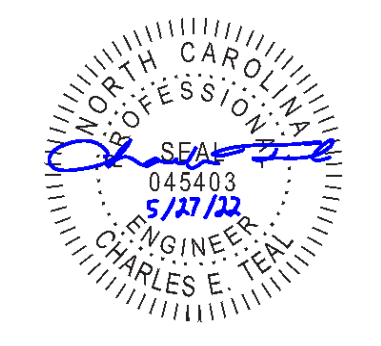
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PROJECT NO: **22900802**

DATE: **05/27/2022** DRAWN BY: **CAR**

WALL BRACING DETAILS

D4.0

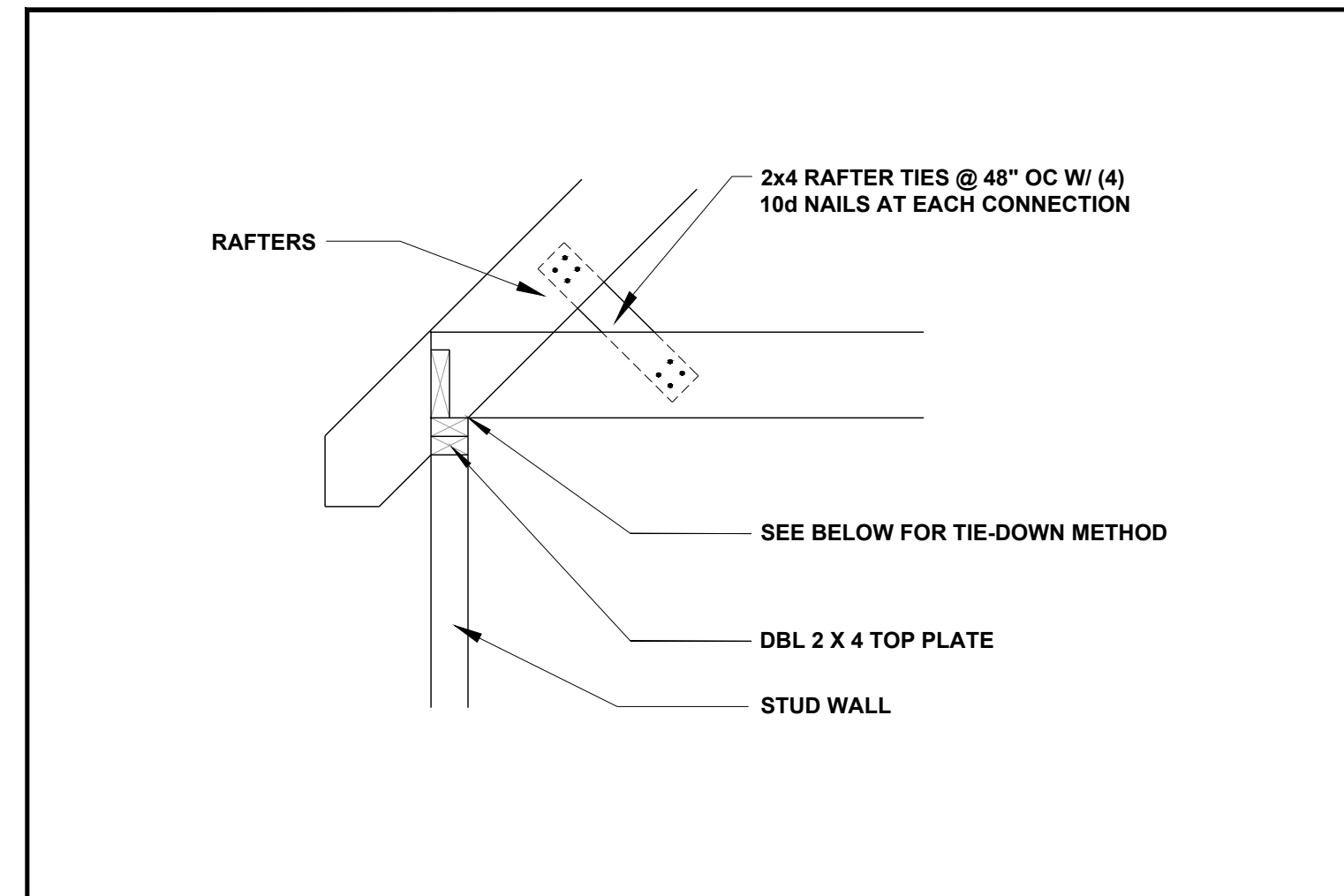


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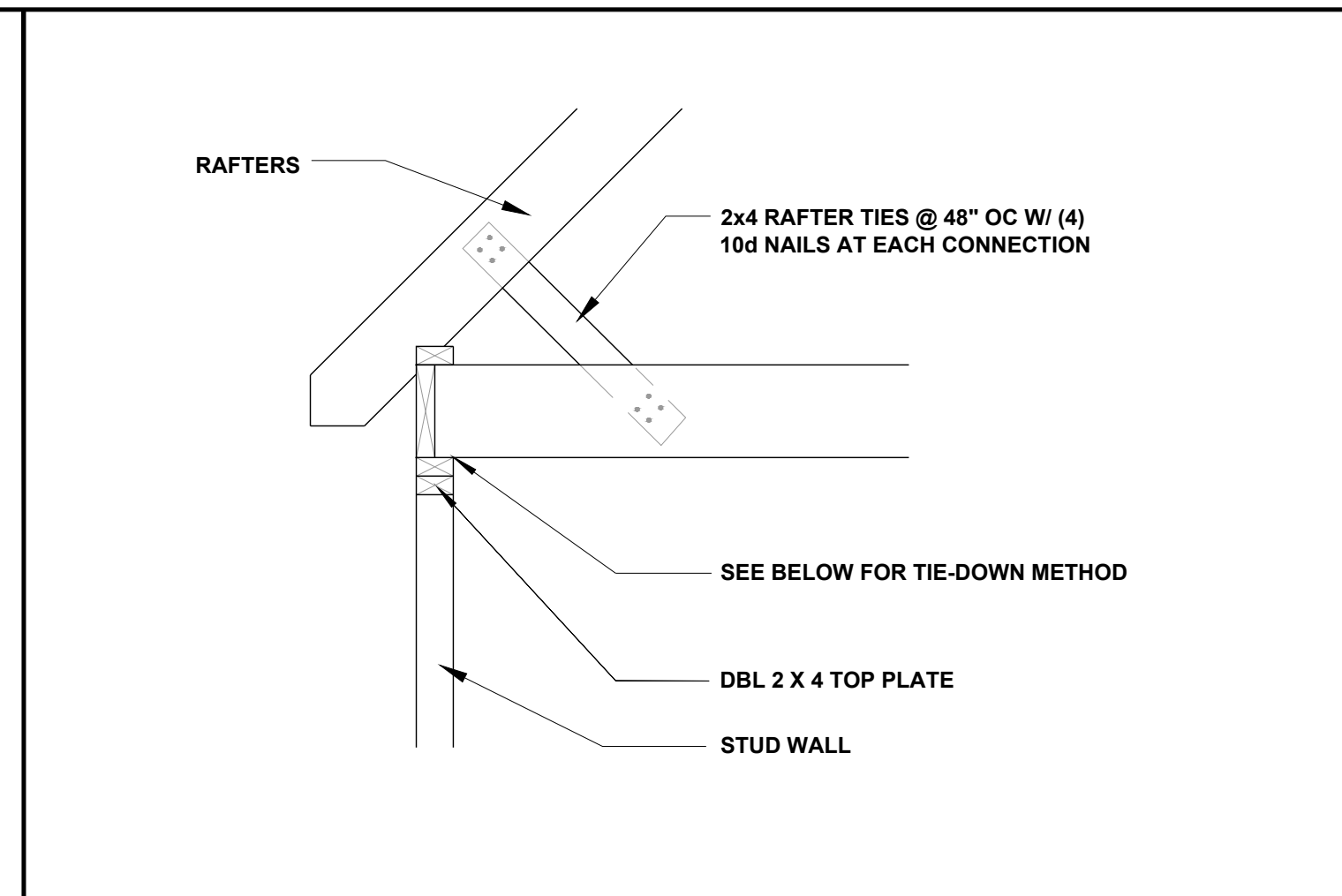
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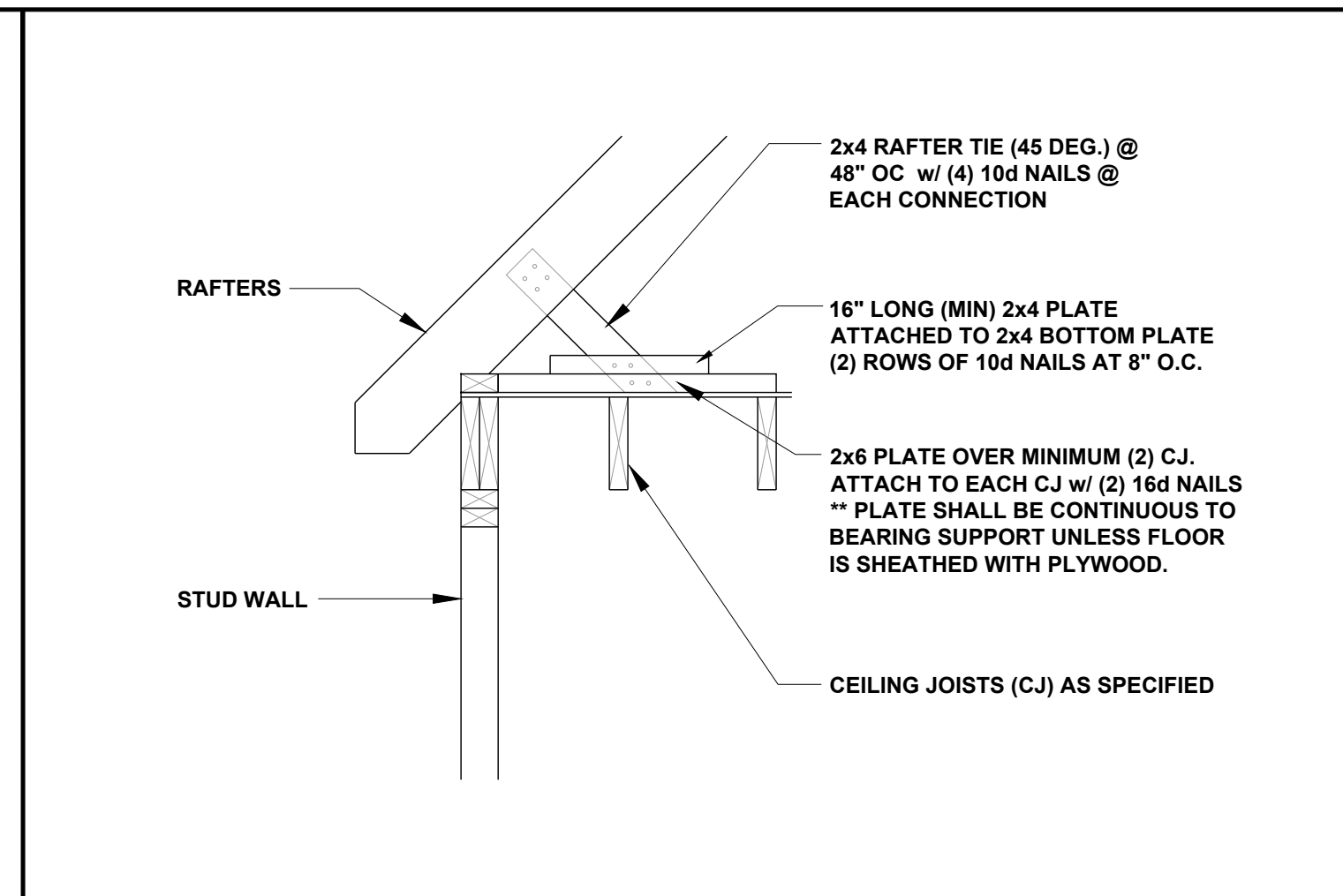
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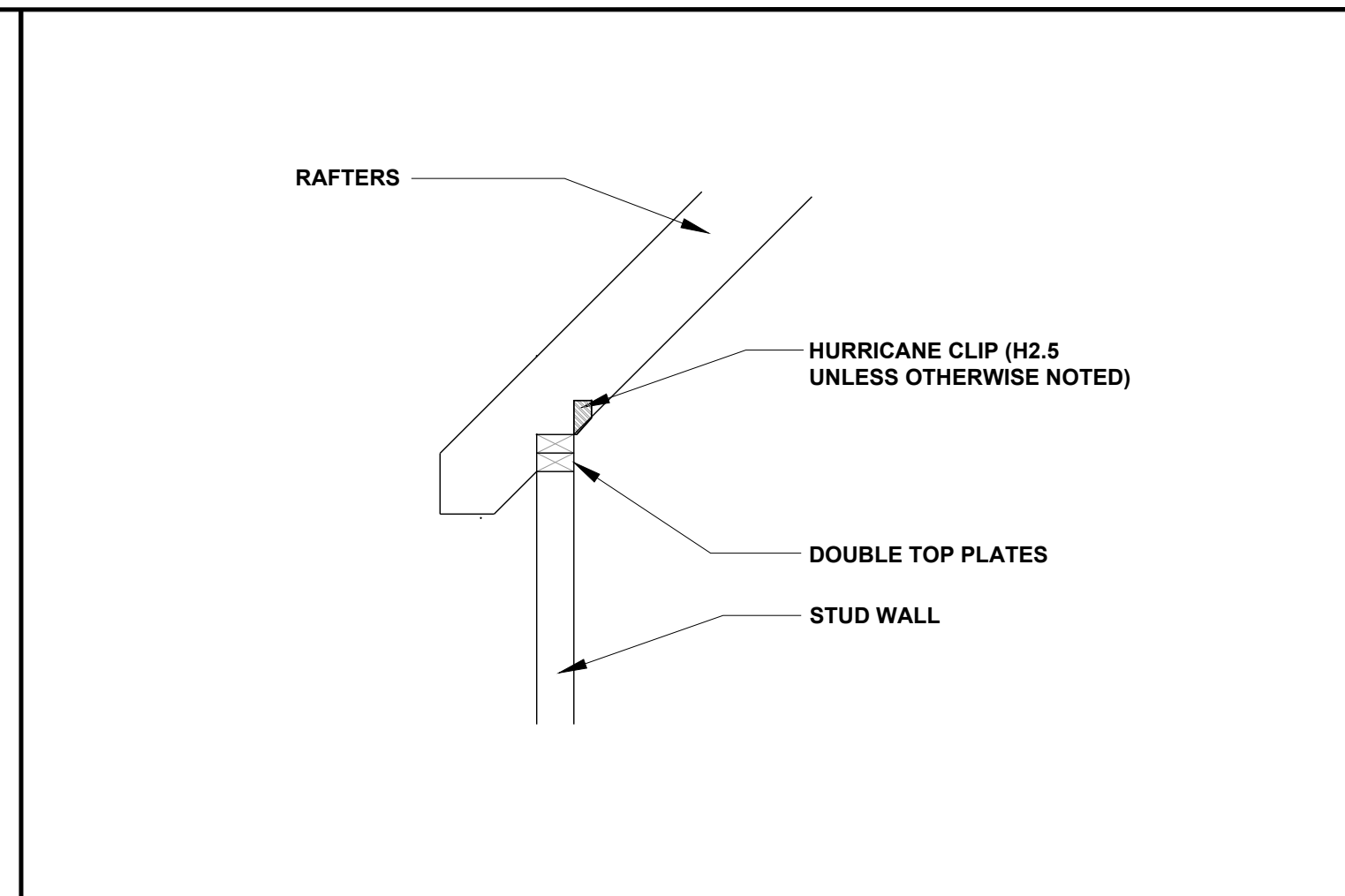
RAFTER TIE 3/4" = 1'-0" **1**



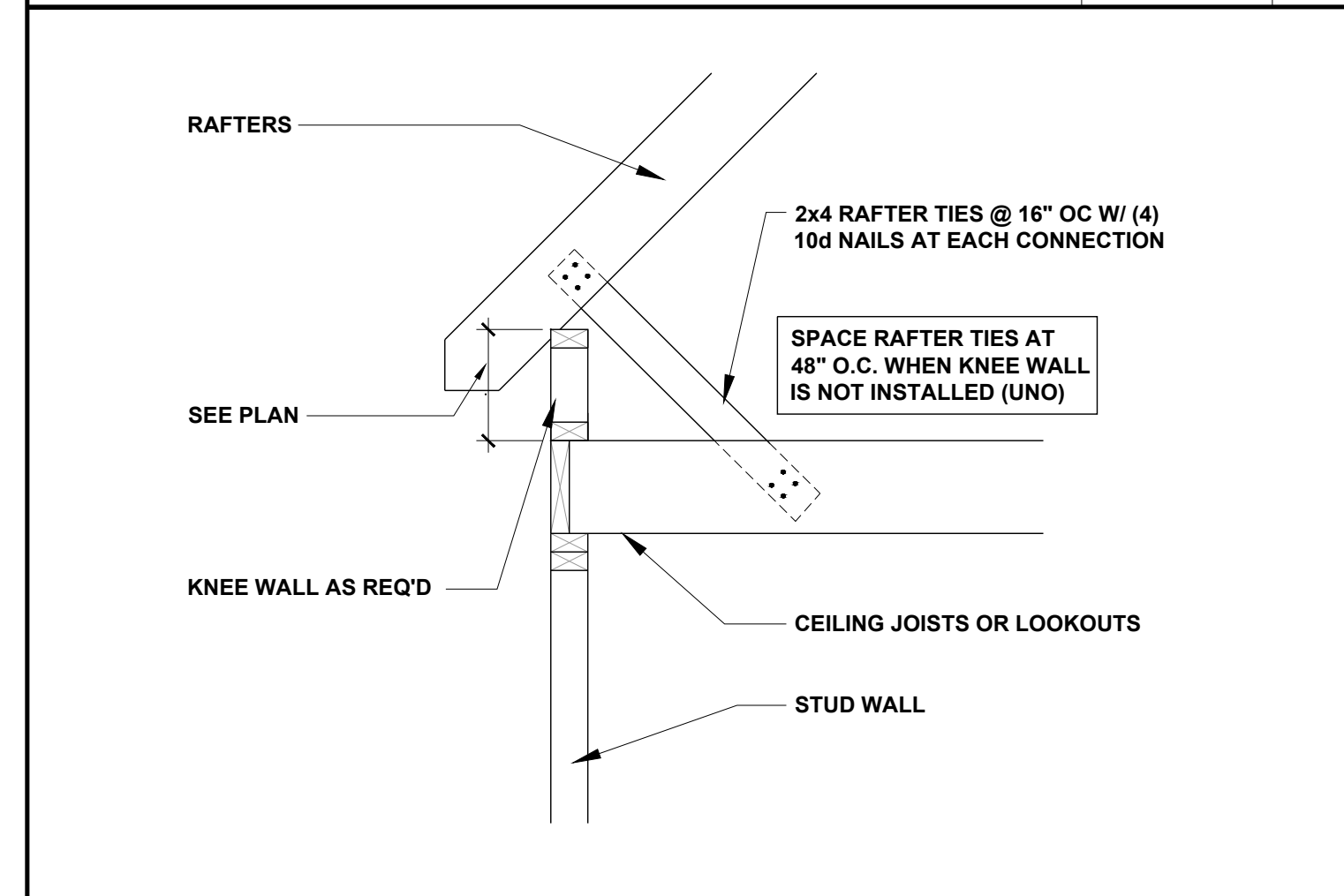
RAFTER TIE 3/4" = 1'-0" **2**



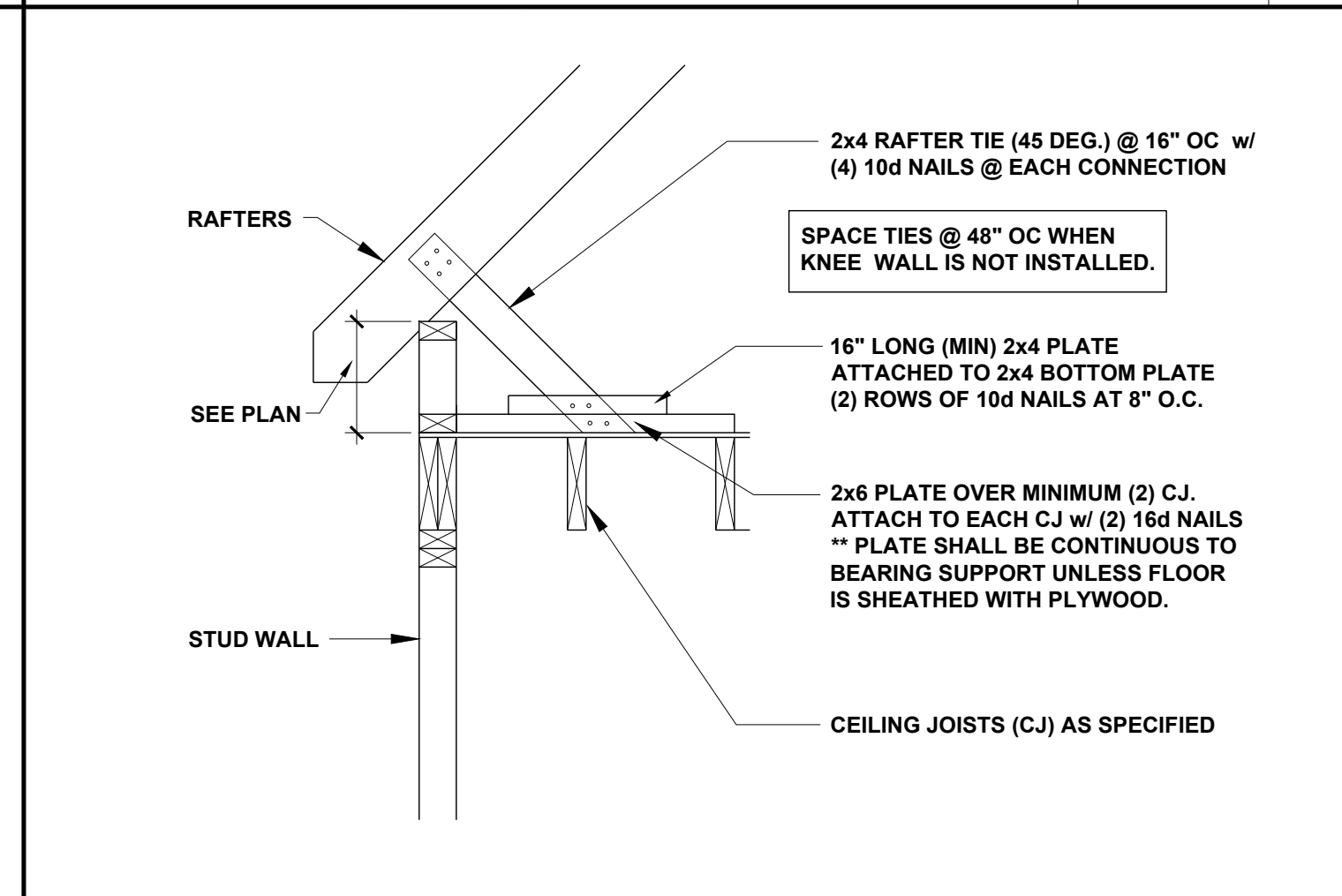
RAFTER TIE 3/4" = 1'-0" **3**



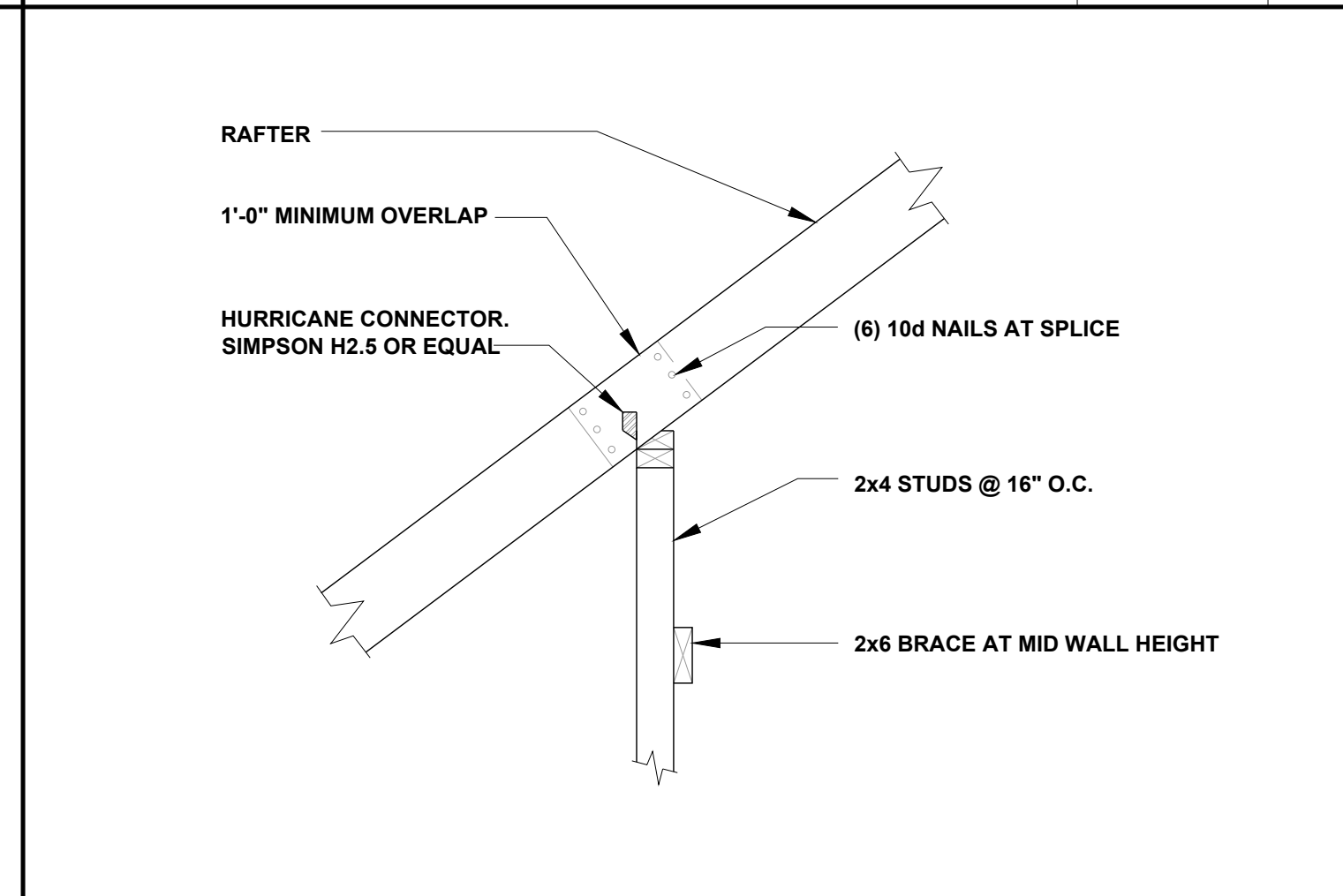
RAFTER-TO-PLATES CONNECTION 3/4" = 1'-0" **4**



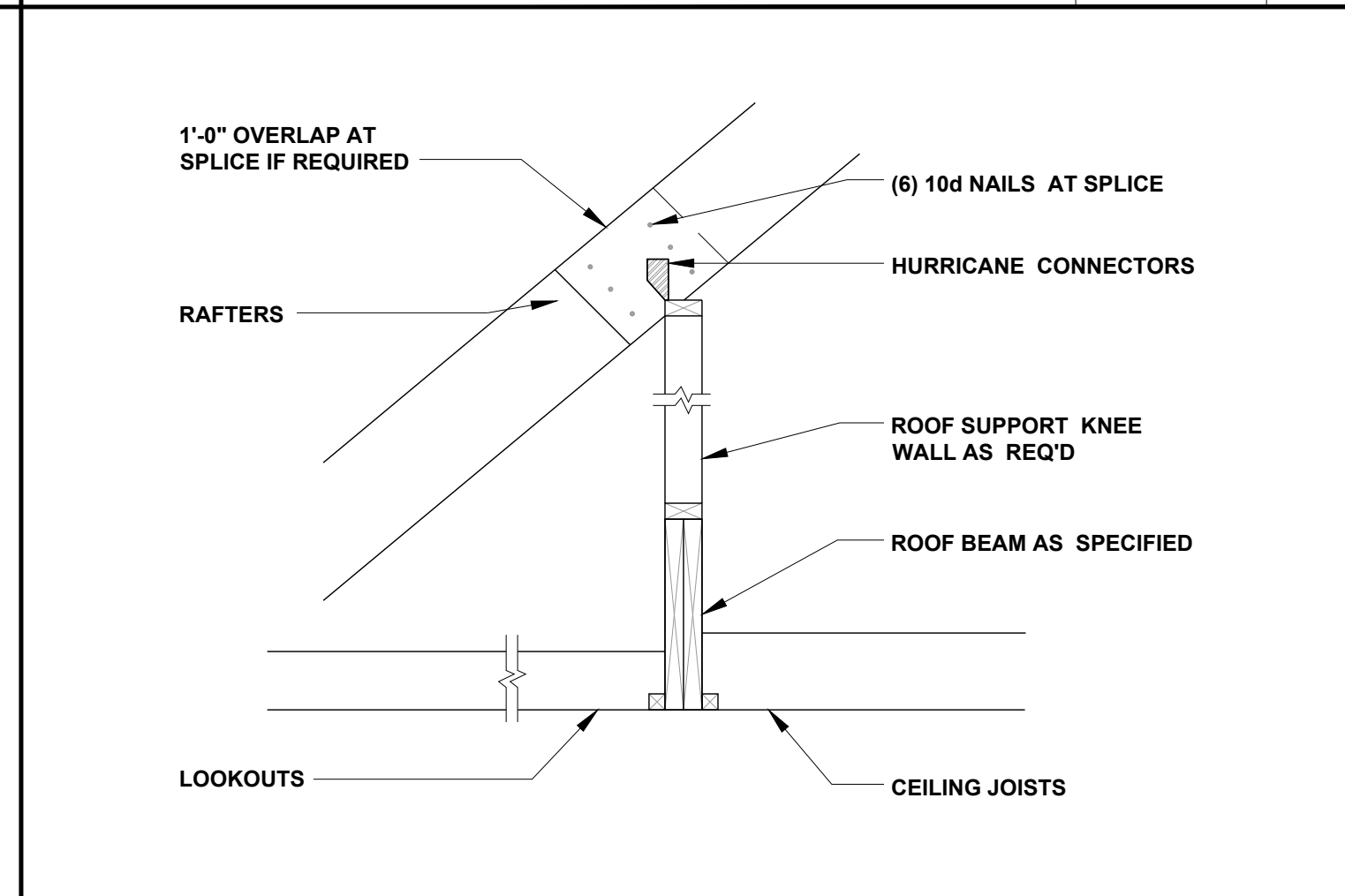
RAFTER AT KNEE WALL 3/4" = 1'-0" **5**



RAFTER AT KNEE WALL 3/4" = 1'-0" **6**



RAFTER SPLICE AT BEARING WALL 3/4" = 1'-0" **7**



ROOF BEAM 3/4" = 1'-0" **8**

A SIMPSON H2.5A HOLD-DOWN: CAPACITY OF 535 POUNDS PER ANCHOR

A2 SIMPSON H2.5A HOLD-DOWN CAPACITY OF 1070 POUNDS WITH TWO ANCHORS

K SIMPSON HUS26 HANGER: UPLIFT CAPACITY OF 1550 POUNDS PER ANCHOR. ALLOWABLE VERTICAL LOAD 2720 POUNDS.

NOTES:
ALL HOLD DOWN VALUES ARE BASED ON SPF LUMBER AND ARE FROM SIMPSON C-2011 CATALOG

PLAN VIEW

FRAMING CONNECTORS NTS **9**

CLIENT: **TRIANGLE BUILDING & PROPERTIES**

PROJECT: **BELMONT 2.0 LH**

LOCATION: **NORTH CAROLINA**

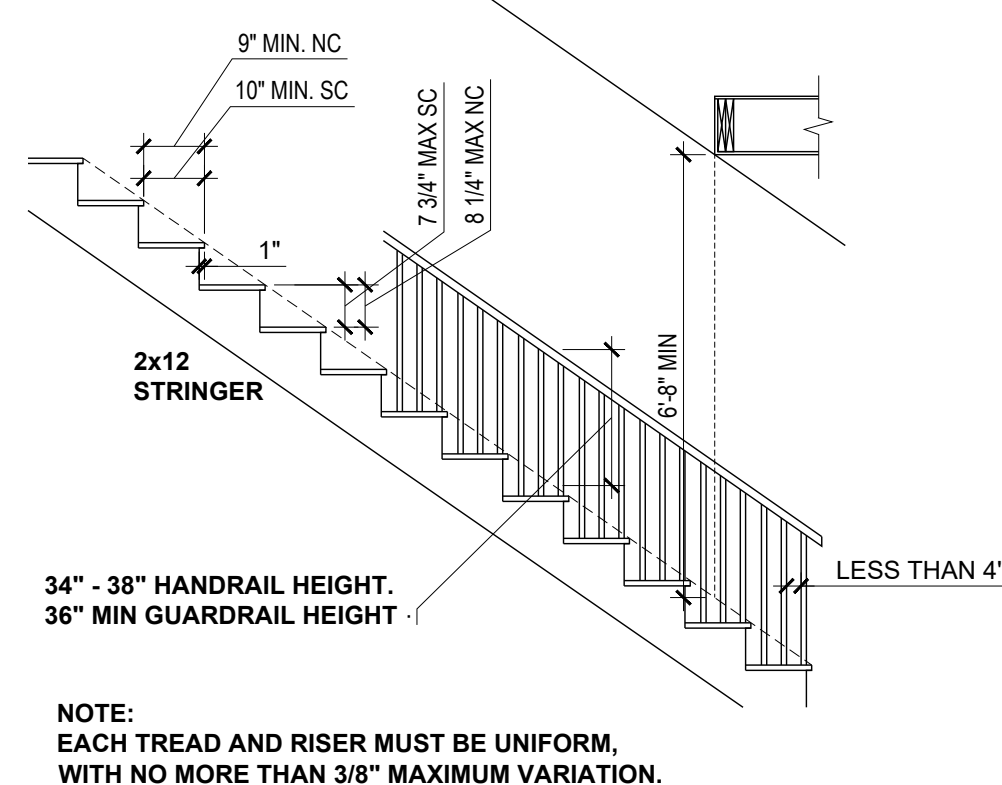
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PROJECT NO.: **22900802**

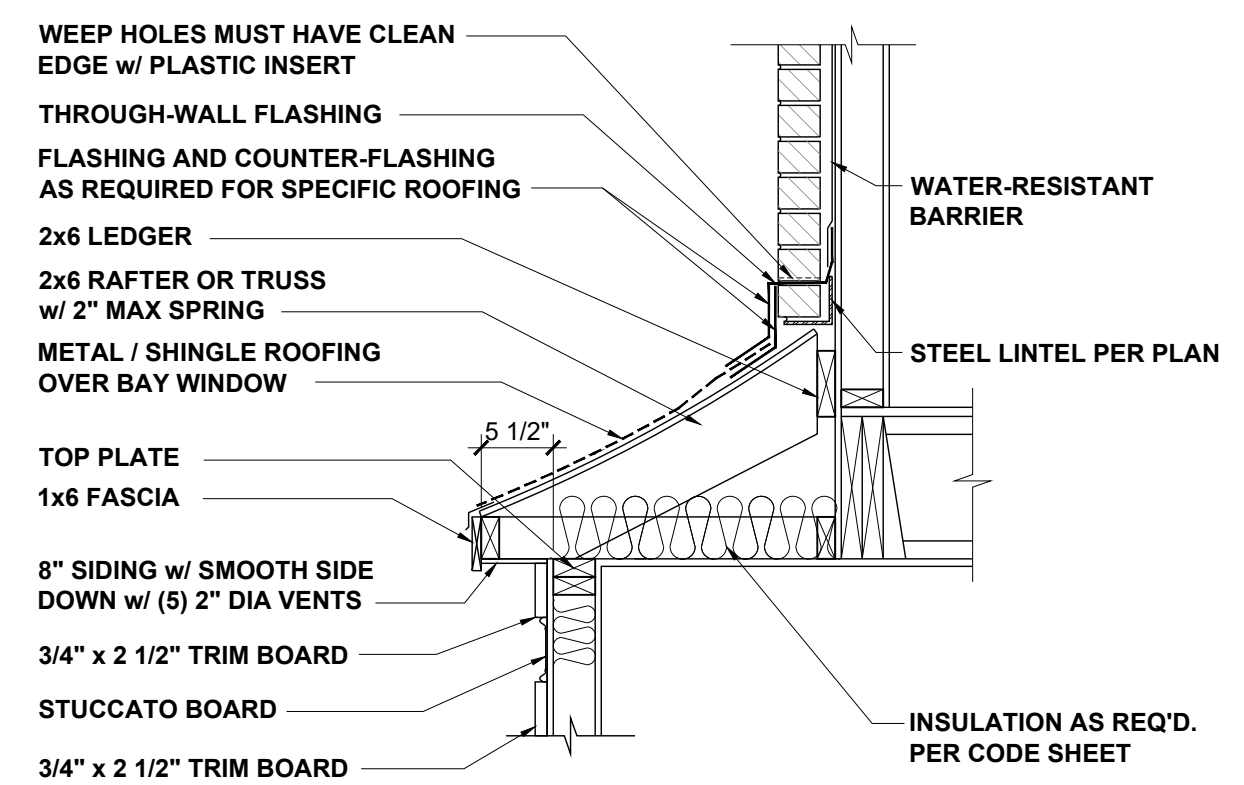
DATE: **05/27/2022** DRAWN BY: **CAR**

CONVENTIONAL FRAMING DETAILS

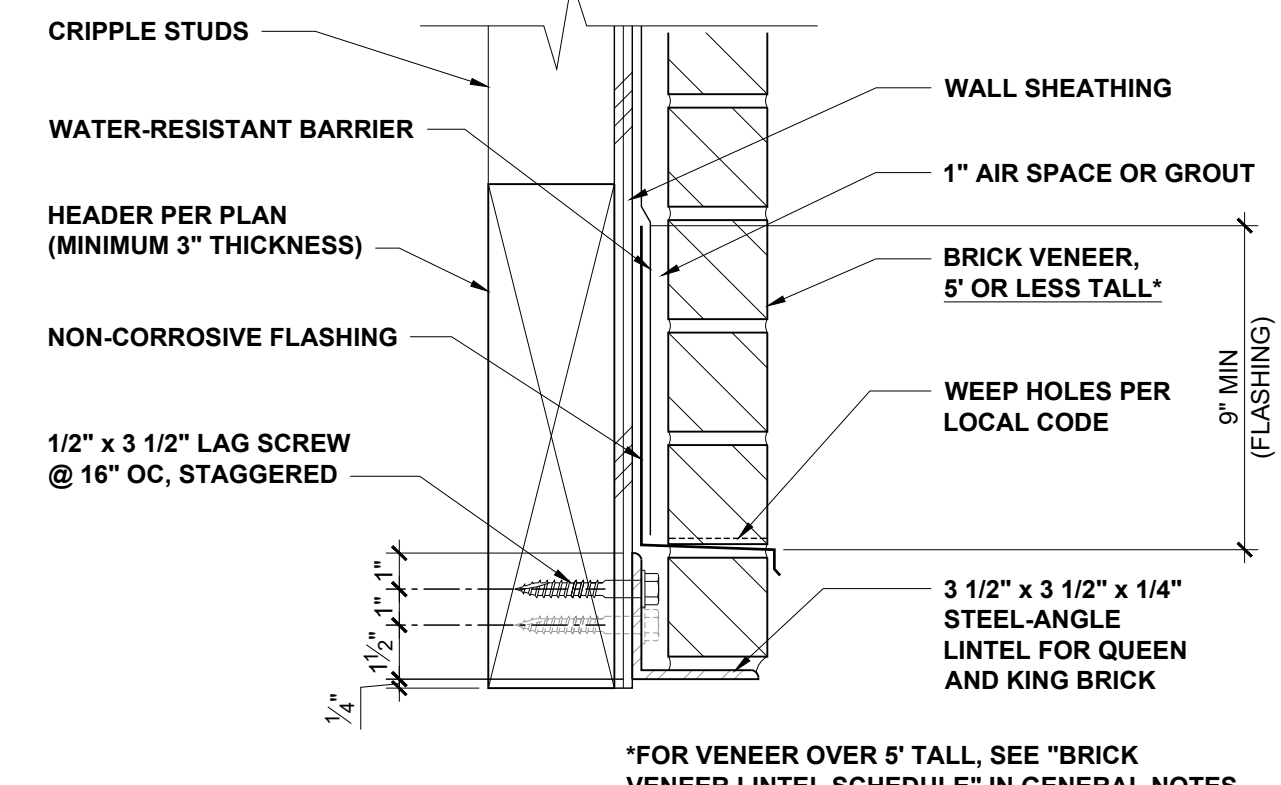
D5.0



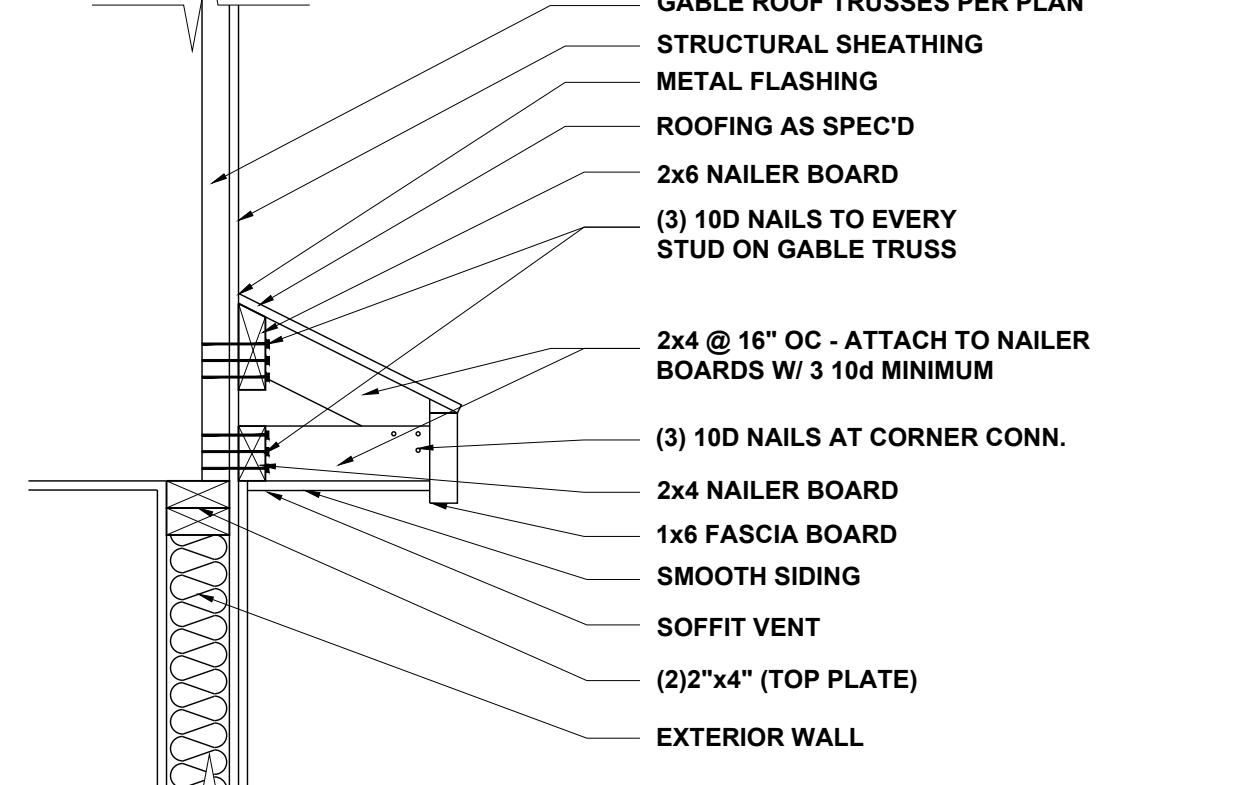
TYPICAL STAIR REQUIREMENTS 3/8" = 1'-0" **1**



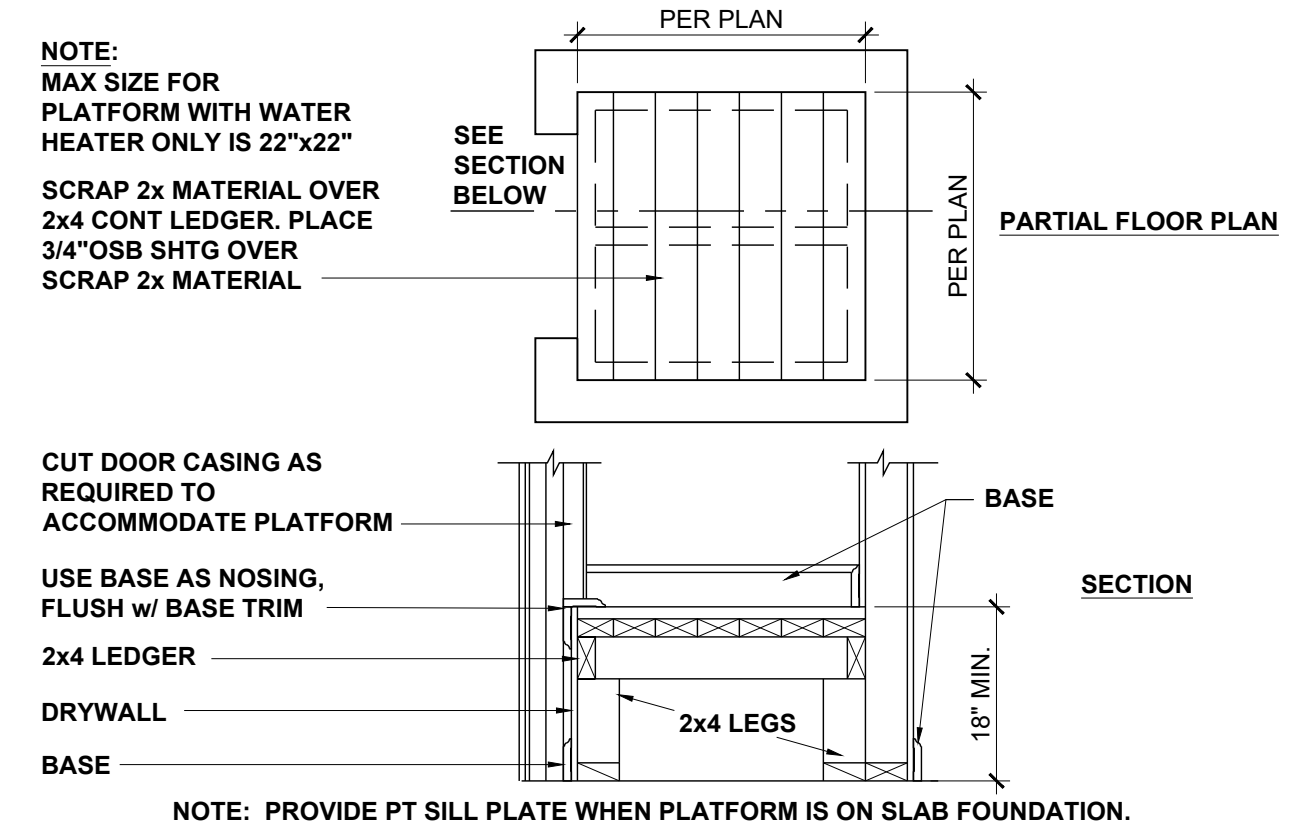
BAY ROOF 3/4" = 1'-0" **2**



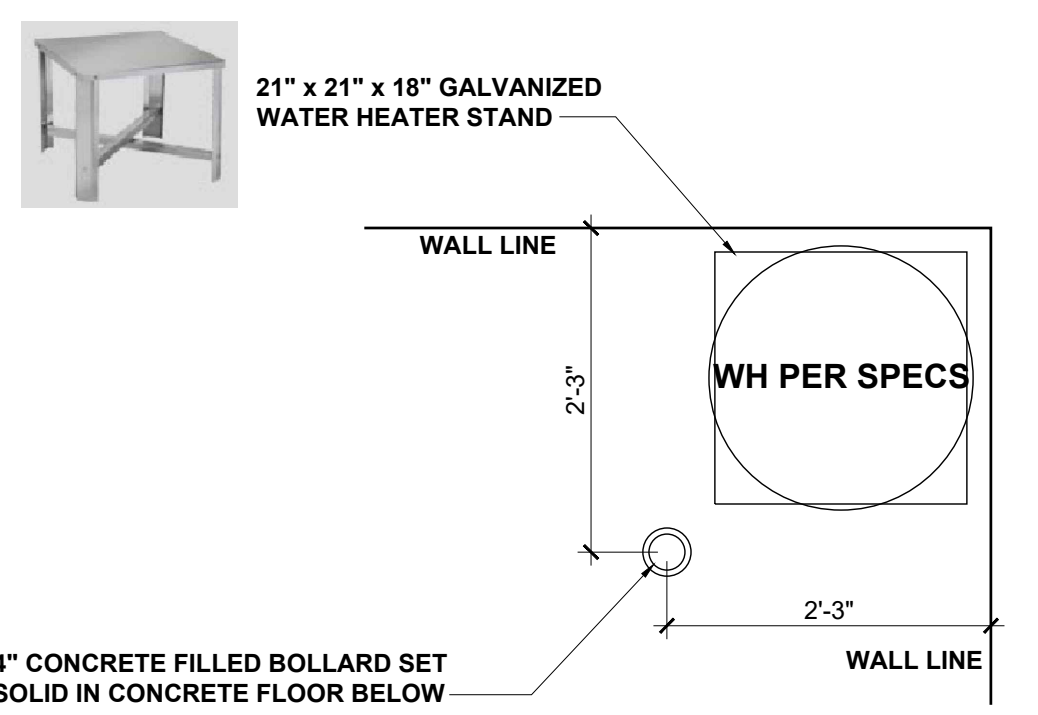
ALTERNATE LINTEL AT WIDE OPENING NTS **3**



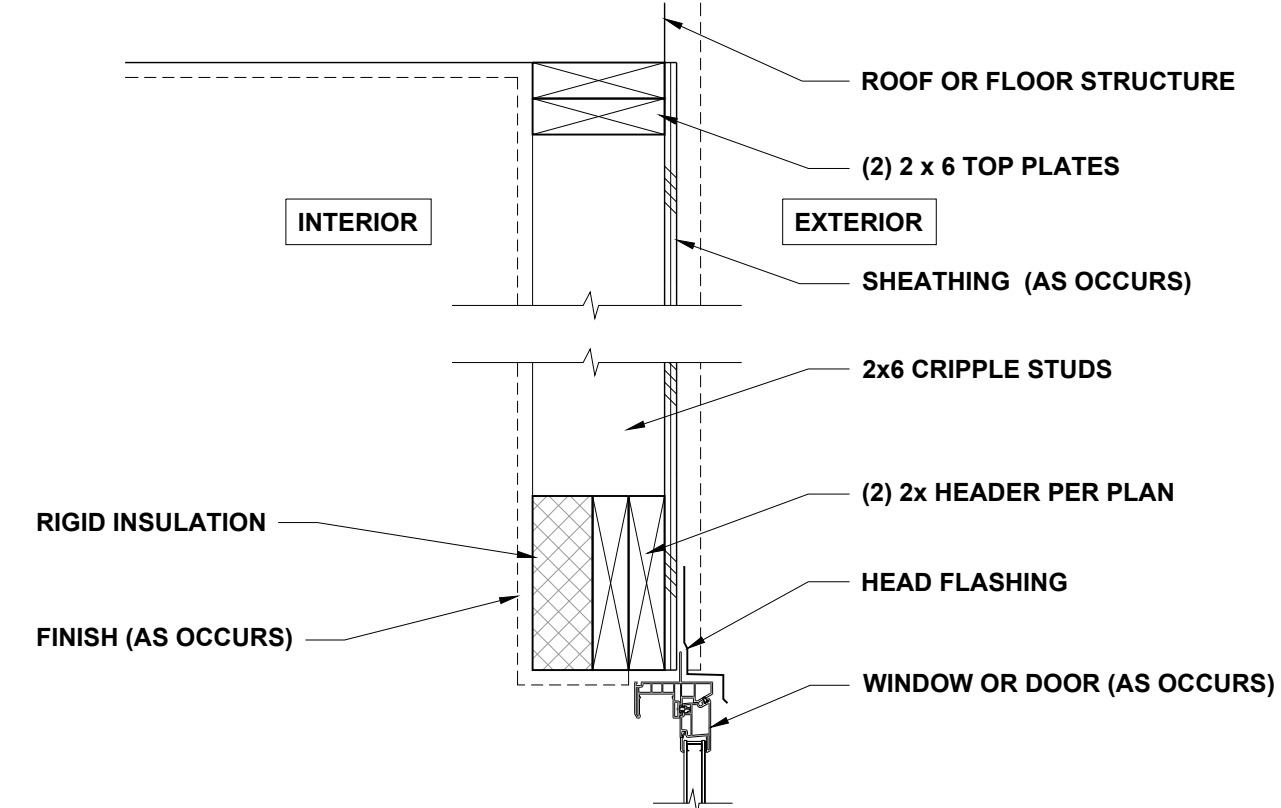
GABLE ROOF RETURN NTS **4**



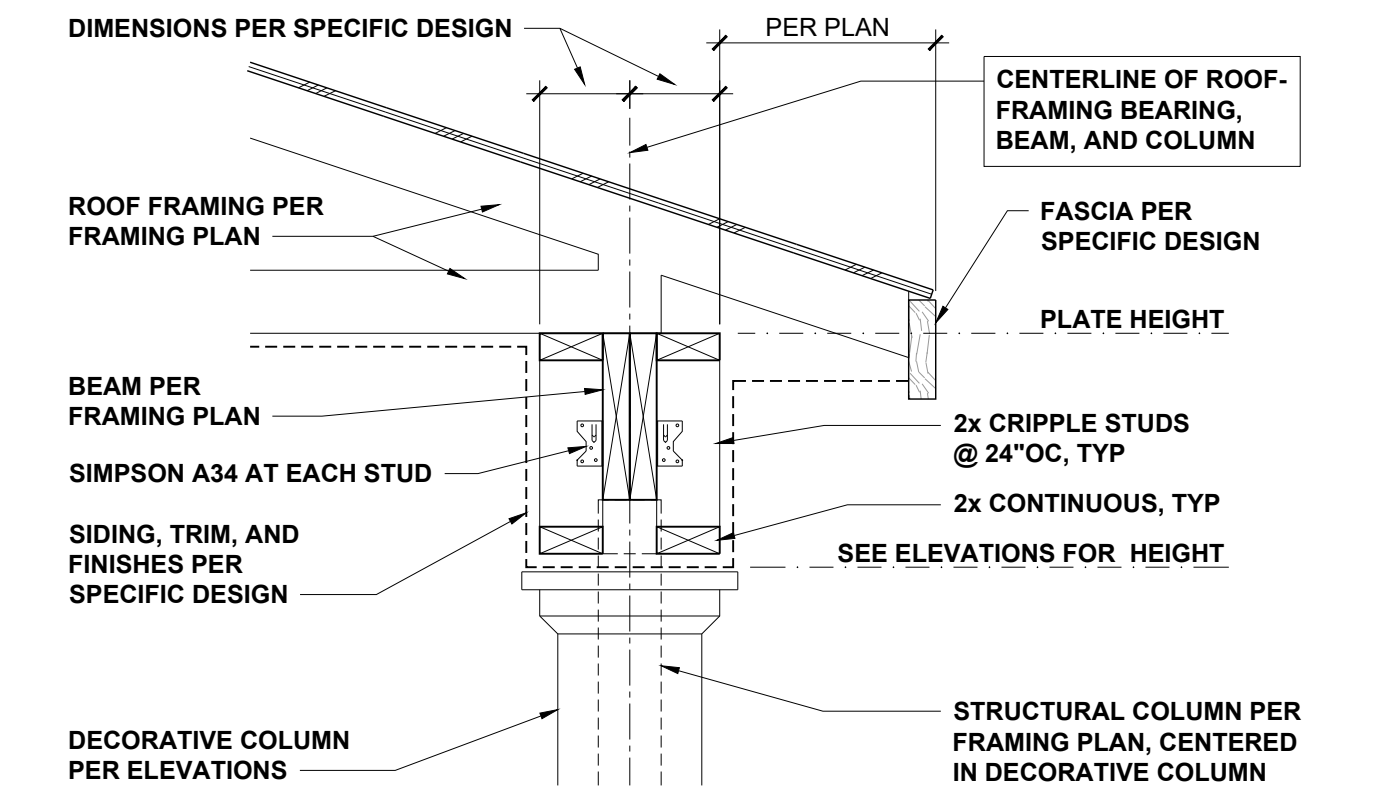
HVAC / WATER HEATER CLOSET 3/4" = 1'-0" **5**



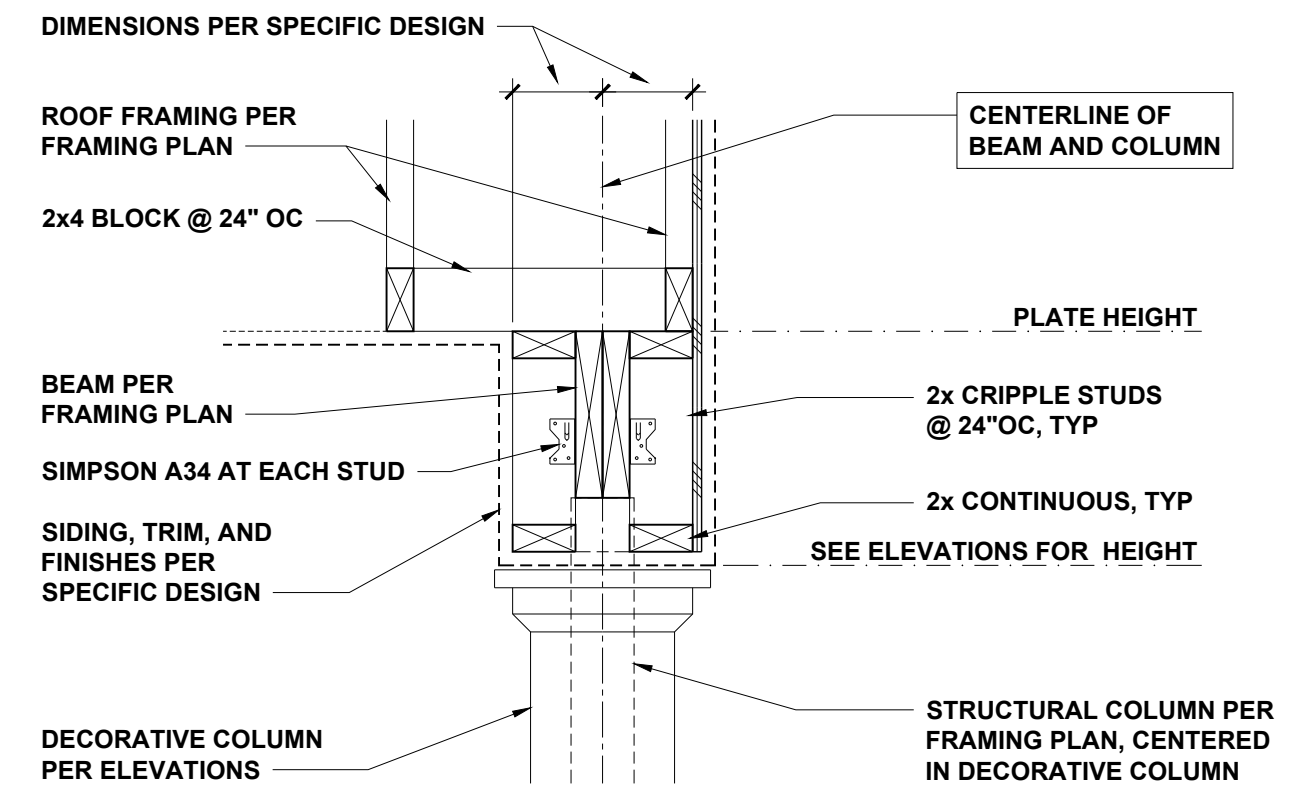
WATER HTR PLATFORM IN GARAGE 3/4" = 1'-0" **6**



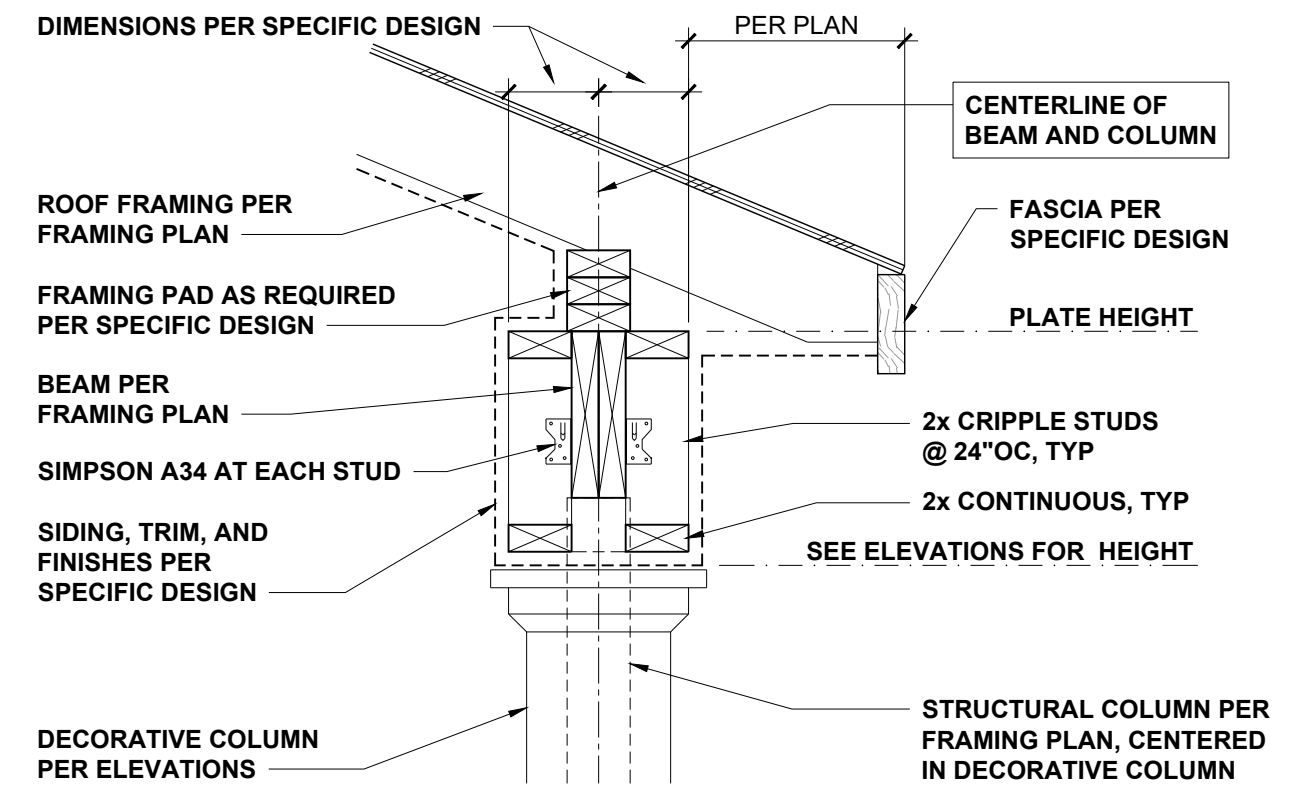
HEADER WITH INSULATION 1 1/2" = 1'-0" **7**



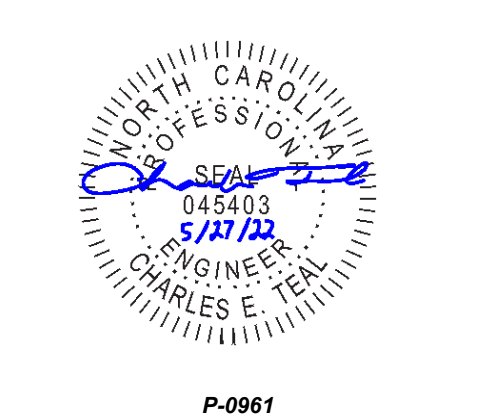
COVERED PORCH EAVES NTS **8**



COVERED PORCH RAKE NTS **9**



COVERED PORCH WITH SLOPING CEILING NTS **10**



JDS Consulting
ENGINEERING • DESIGN • ENERGY
JDS Consulting PLLC, 8600 TP JERSEY CT, RALEIGH, NC 27617 919.480.0705
INFO@JDSCONSULTING.NET WWW.JDSCONSULTING.NET
JDS Consulting PLLC IS NOT LIABLE FOR CHANGES MADE TO PLANS DUE TO CONSTRUCTION METHODS OR ANY CHANGES TO PLANS MADE IN THE FIELD. THE CLIENT ASSUMES ALL RESPONSIBILITY FOR ANY CHANGES TO PLANS. THE SHEET NUMBER, PROJECT, OR AS A MASTER PLAN AS SPECIFIED ON TITLE SHEET. DIMENSIONS SHALL GOVERN OVER SCALE, AND CODE SHALL GOVERN OVER DIMENSIONS ON DRAWINGS.

CLIENT: **TRIANGLE BUILDING & PROPERTIES**
PROJECT: **BELMONT 2.0 LH**
LOCATION: **NORTH CAROLINA**

PROJECT NO.: **22900802**

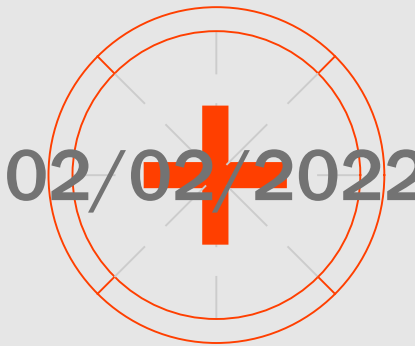
DATE: **05/27/2022** DRAWN BY: **CAR**

MISCELLANEOUS FRAMING DETAILS

D6.0

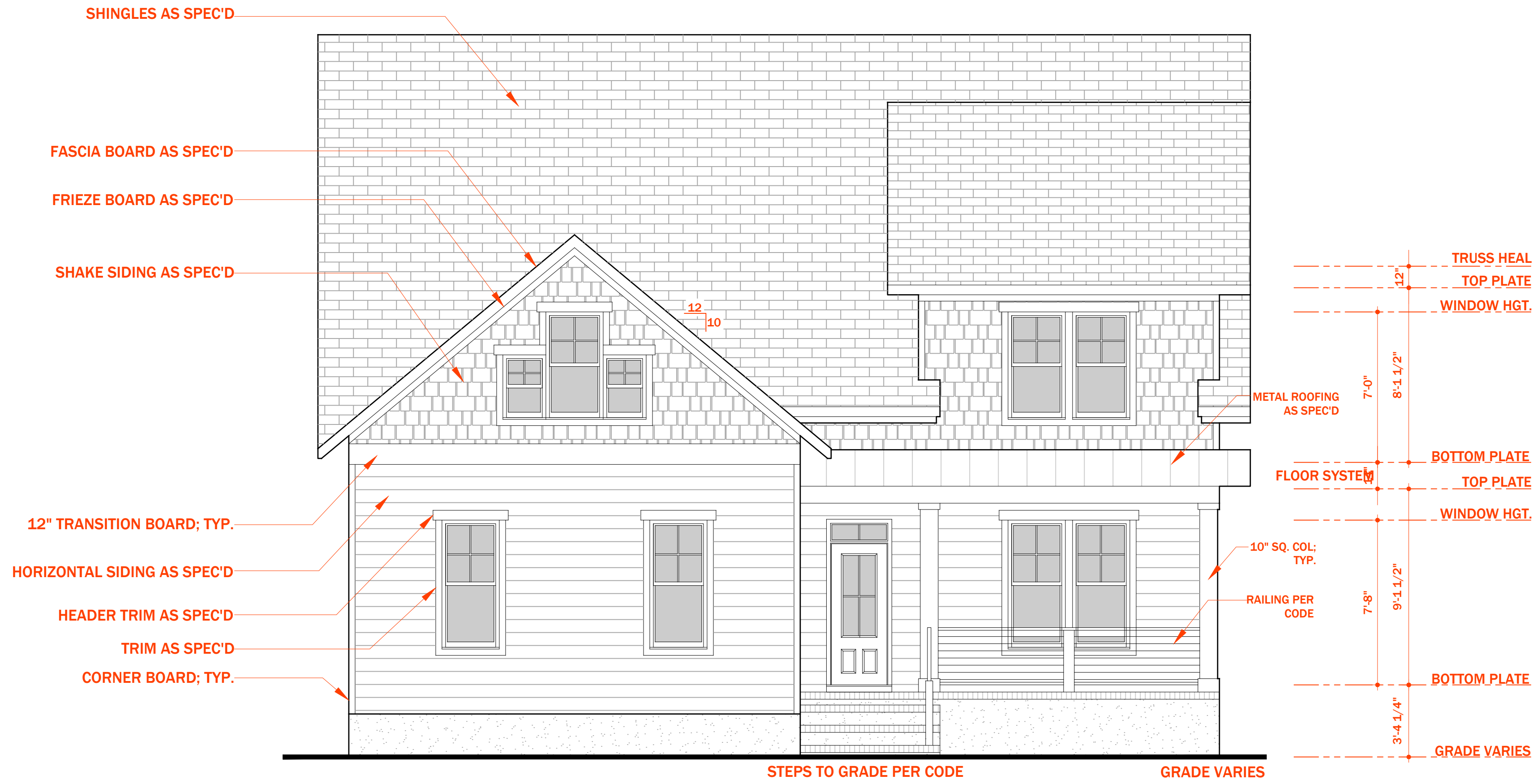
SCALE: 1/4" = 1'-0" FOR 24x36 PAPER, NOT TO SCALE FOR 11x17 PAPER, OR AS NOTED

PLANS DESIGNED TO THE 2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE



Revisions

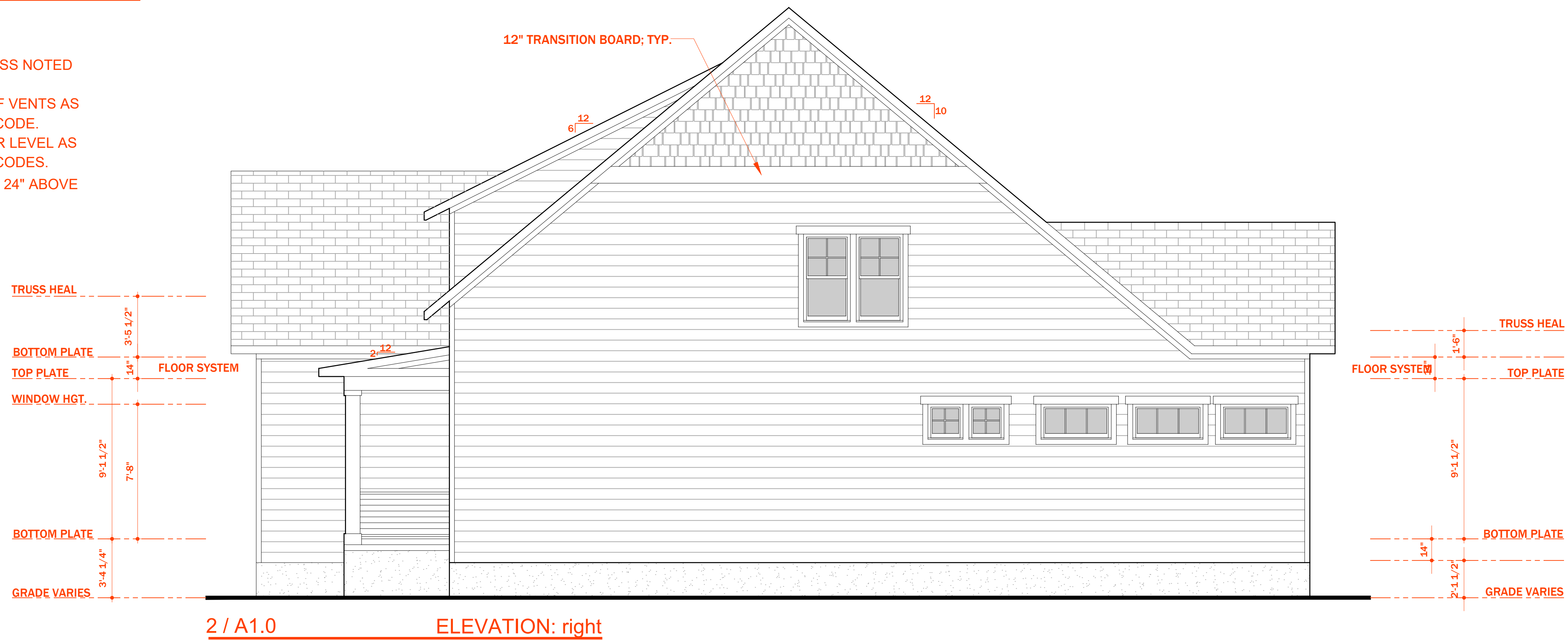
1	Mirrored plan, ADA Primary Suite
2	Removed upstairs laundry
3	02.28.2022



1 / A1.0 ELEVATION: front

GENERAL ELEVATION NOTES:

1. ROOF OVERHANGS ARE 12" UNLESS NOTED OTHERWISE.
2. PROVIDE FOUNDATION AND ROOF VENTS AS REQUIRED BY STATE BUILDING CODE.
3. PROVIDE STEPS TO FINISH FLOOR LEVEL AS REQUIRED BY STATE BUILDING CODES.
4. SECOND FLOOR WINDOWS TO BE 24" ABOVE FINISH FLOOR.



Notes

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Project North

Drawing Title
Elevation
Scale 1/4"=1'-0"

Sheet No.
A1.0

TRIANGLE BUILD. & PROP.
 Purfoy Place Lot 4

02/02/2022 

Revisions

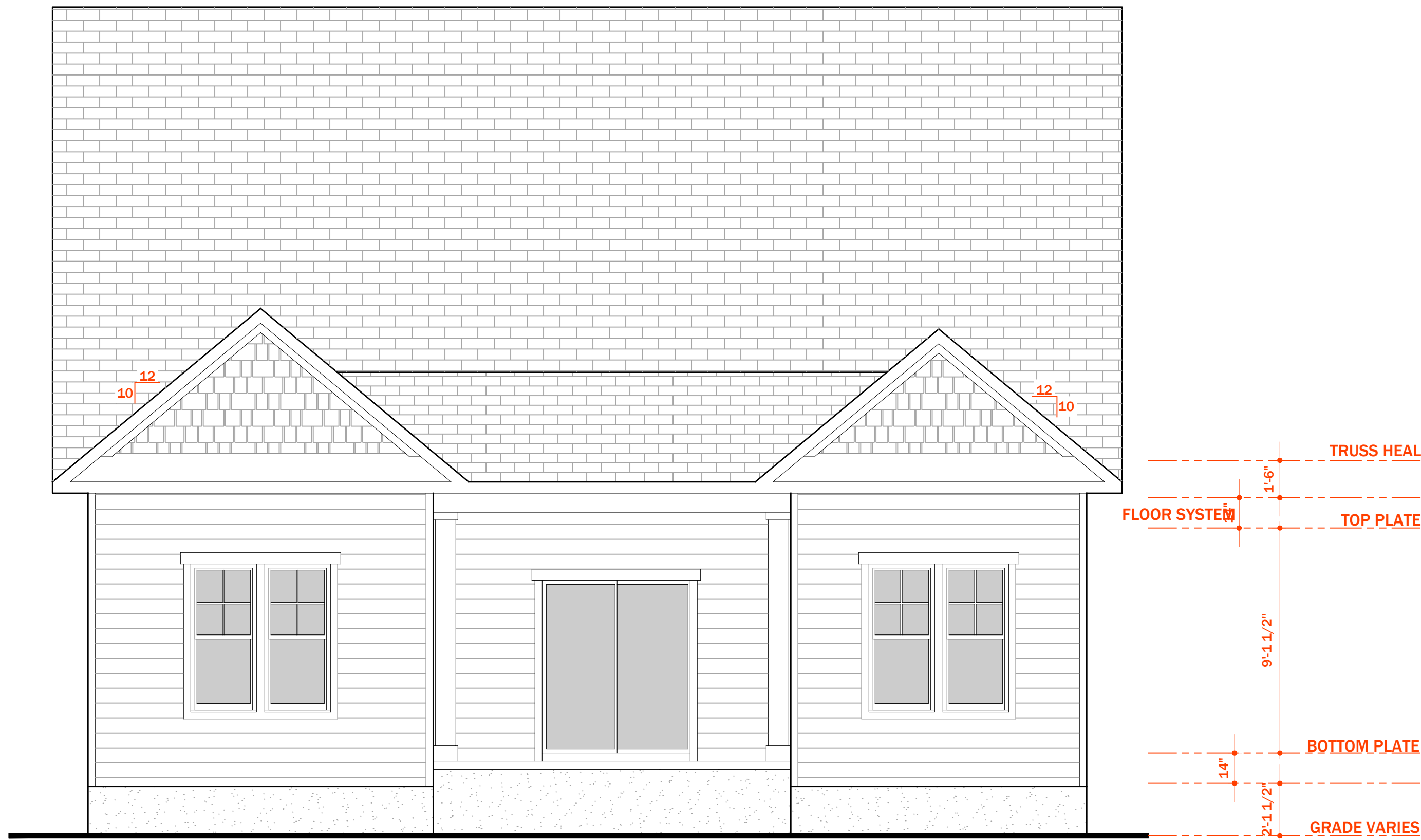
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Project North

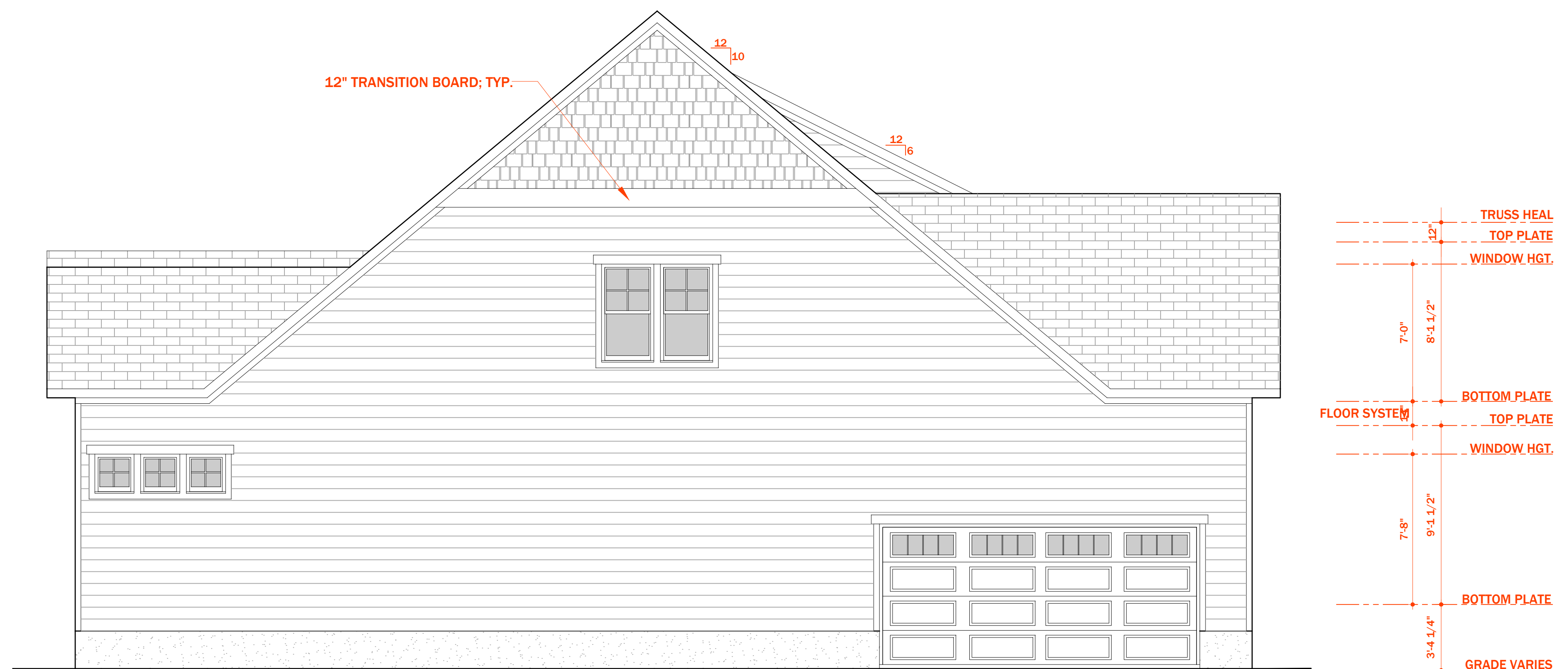

Drawing Title
 Elevation
 Scale: 1/4"=1'-0"
 Sheet No:
A2.0
 © SBDS, LLC 2021



1 / A2.0 ELEVATION: rear

GENERAL ELEVATION NOTES:

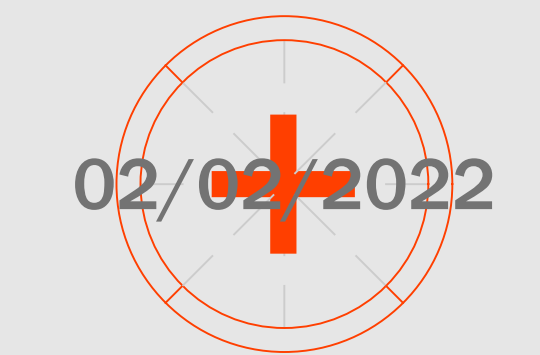
1. ROOF OVERHANGS ARE 12" UNLESS NOTED OTHERWISE.
2. PROVIDE FOUNDATION AND ROOF VENTS AS REQUIRED BY STATE BUILDING CODE.
3. PROVIDE STEPS TO FINISH FLOOR LEVEL AS REQUIRED BY STATE BUILDING CODES.
4. SECOND FLOOR WINDOWS TO BE 24" ABOVE FINISH FLOOR.




2 / A2.0 ELEVATION: left

TRIANGLE BUILD. & PROP.

Purfoy PPlace Lot 4



Revisions

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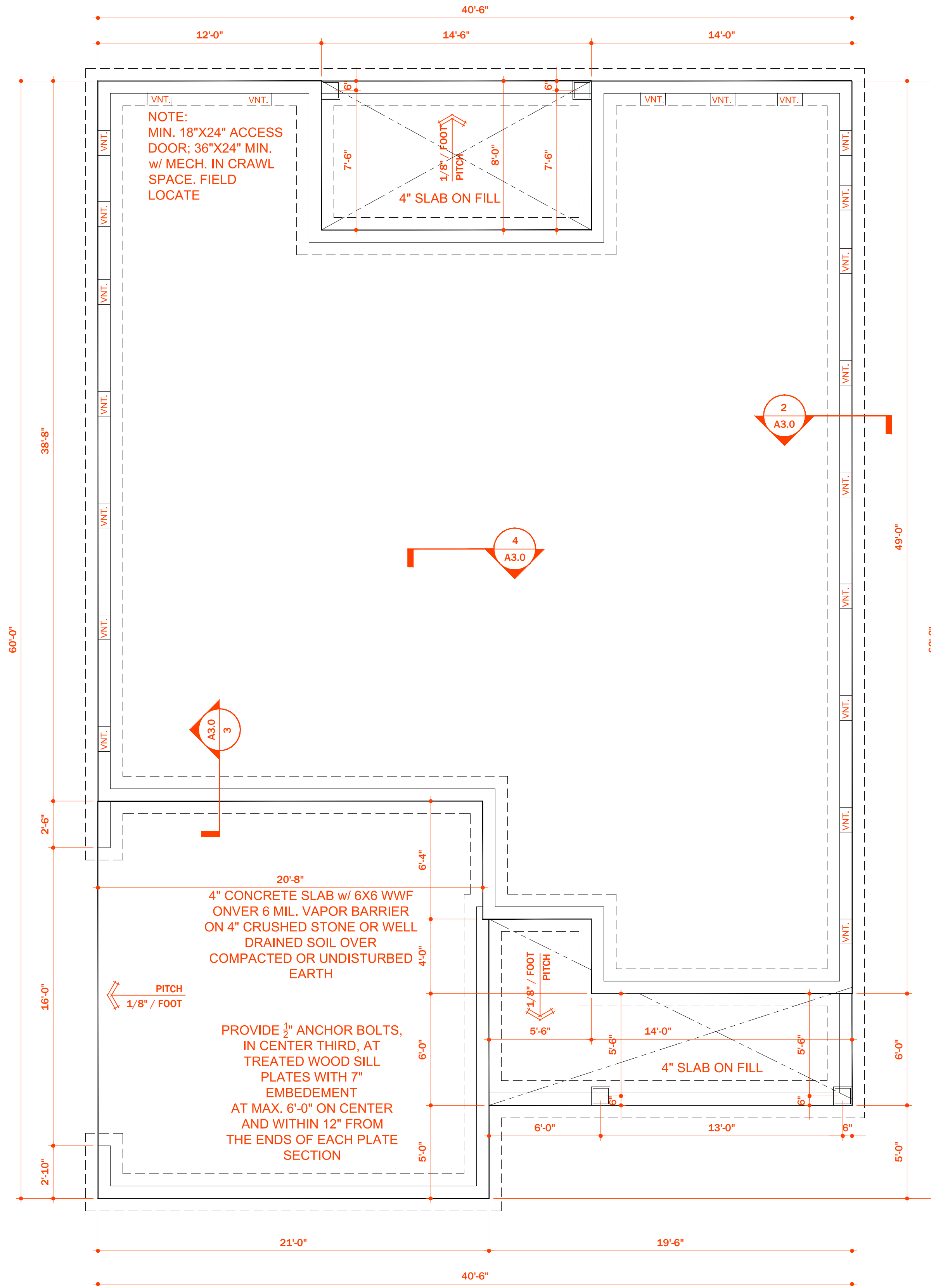
Drawing Title
Foundation

Scale 1/4"=1'-0"

Sheet No.

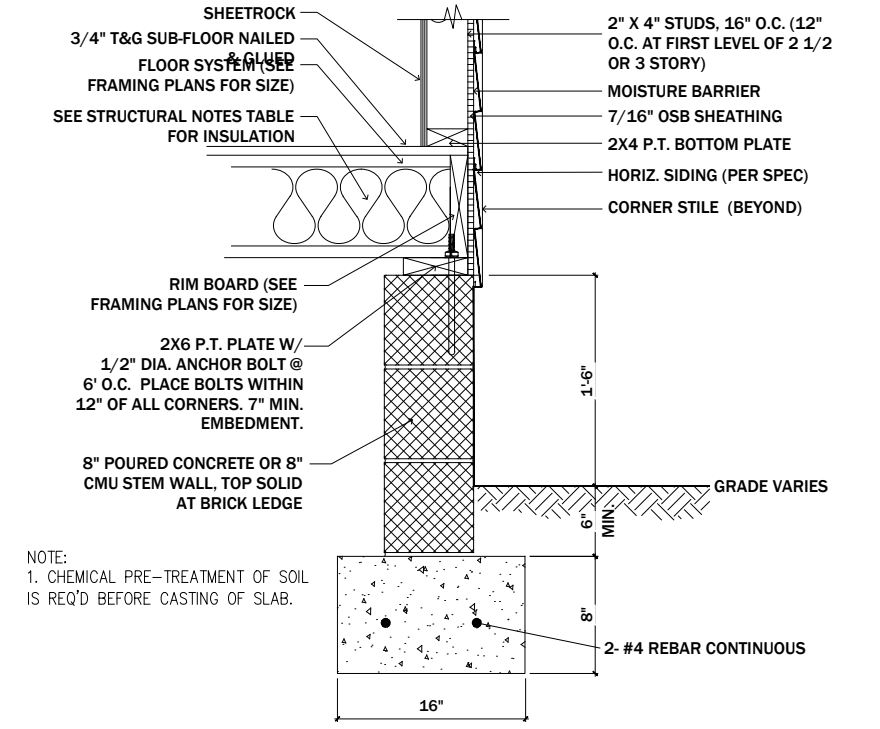
A3.0

© 2022

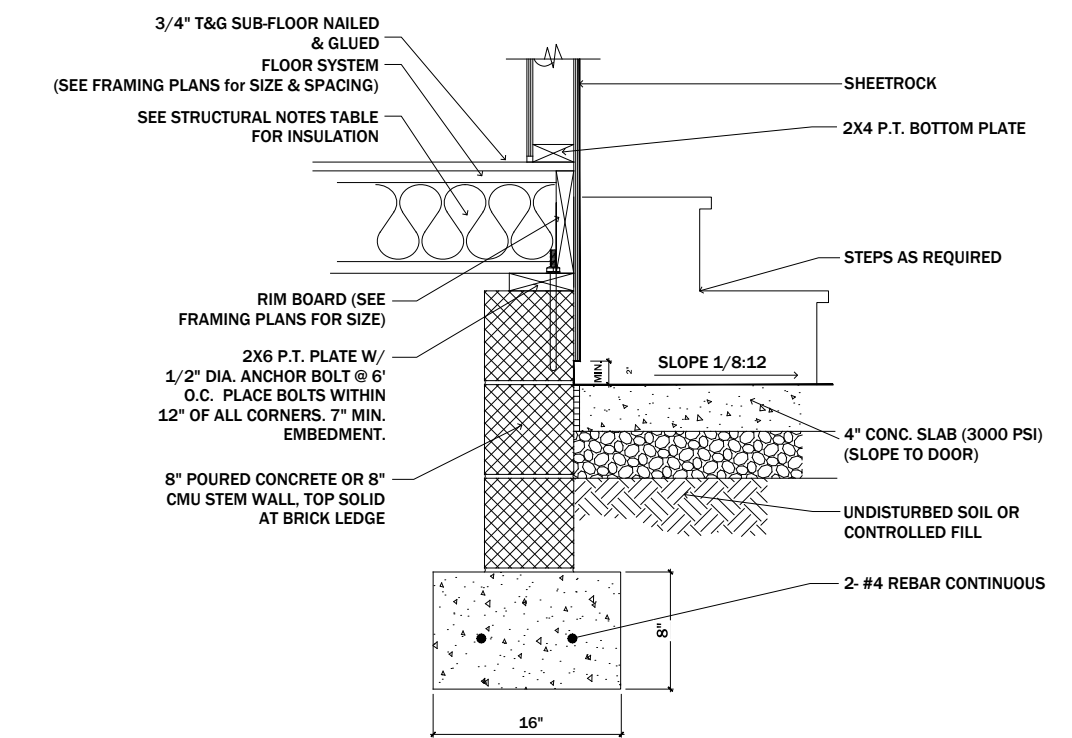


1 / A3.0 PLAN: foundation

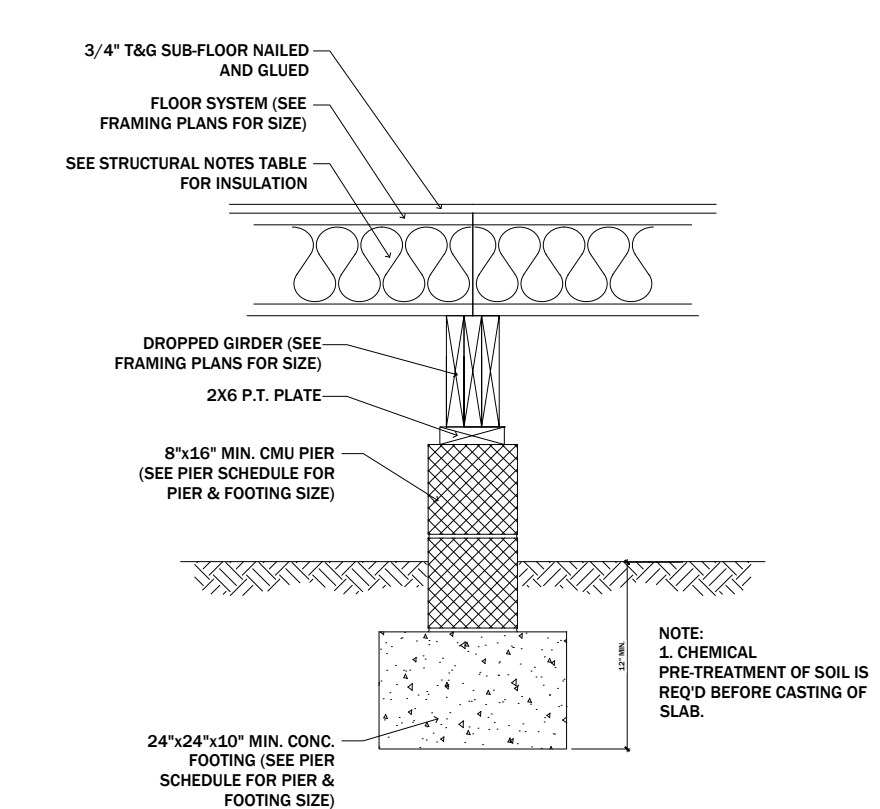
WALL VENTED CRAWL SPACE	
REQUIRED	
<u>1631</u> SQ. FT. / 150 = <u>10.9</u> SQ. FT. OF VENTILATION	
PROVIDED	
<u>.52</u> SQ. FT. / VENT x <u>21</u> VENTS = <u>10.9</u> (SQ. FT. OF VENTILATION)	
ONE VENTILATING OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER.	



2 / A3.0 PLAN: detail



3 / A3.0 PLAN: detail



4 / A3.0 PLAN: detail

TRIANGLE BUILD. & PROP.
 Lot 42 - Purfoy




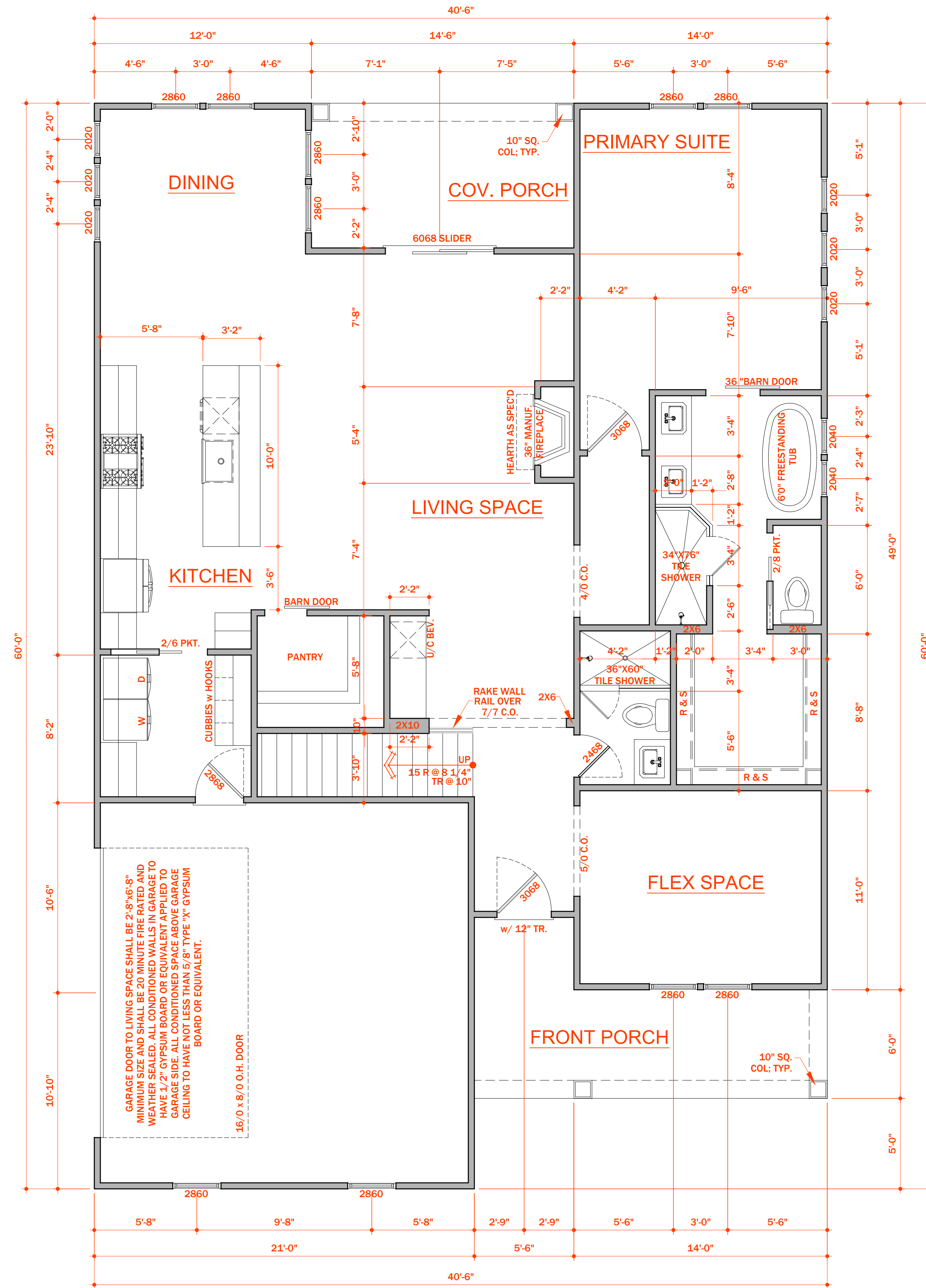
Revisions

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Project North

1 / A4.0 PLAN: first floor
1,632 HEATED SQUARE FEET
446 SQUARE FEET - GARAGE
139 SQUARE FEET - FRONT PORCH
116 SQUARE FEET - REAR PORCH

- GENERAL PLAN NOTES:**
- 9'-0" CEILING HGT. 9'-1 1/2" PLATE HGT.) U.N.O.
 - ALL WALLS FIGURED AT 4" WIDTHS U.N.O.
 - SET WINDOWS AT 7'-8" A.F.F. UNLESS NOTED OTHERWISE
 - DIMENSIONS ARE TO FRAMING UNLESS NOTED OTHERWISE
 - CONSULT WINDOW MANUFACTURERS SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPNG'S.
 - ALL DIMENSIONS SHOWN ARE TO FACE OF FOUNDATION AND/OR FACE OF STUD (FRAMING) UNLESS NOTED OTHERWISE.
 - PROVIDE WOOD BLOCKING IN WALL FRAMING FOR ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO: TOWEL BARS, TOILET PAPER HOLDERS, SHELVING ATTACHMENT, ROBE HOOKS, GRAB BARS, ETC.

TRIANGLE BUILD. & PROP.
Lot 42 - Purfoy

02/02/2022

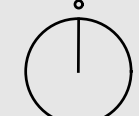
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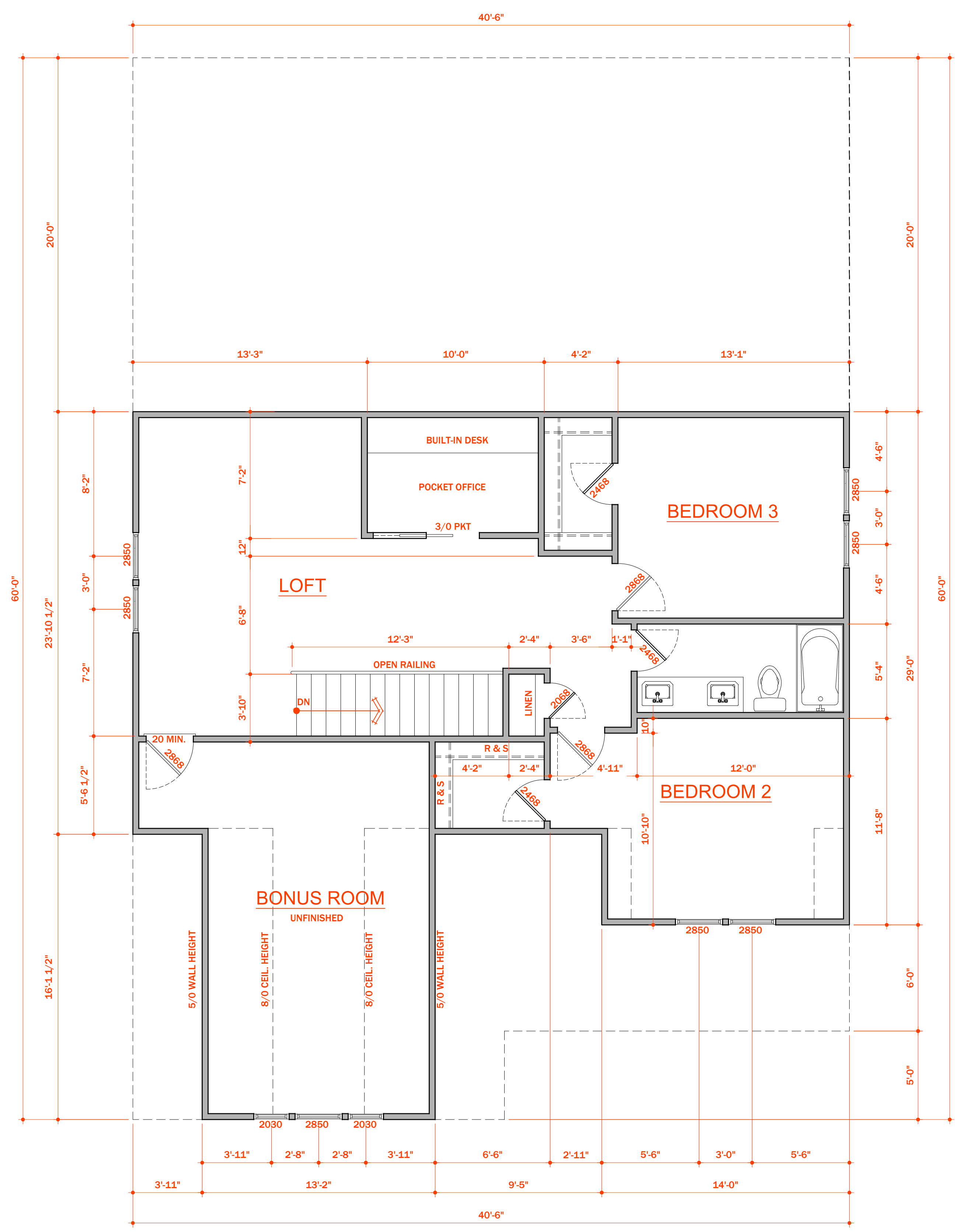


Drawing Title
Floor Plan

Scale 1/4"=1'-0"

Sheet No.
A4.1

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1 / A4.1 PLAN: second floor
946 HEATED SQUARE FEET
305 SQUARE FEET - UNFINISHED BONUS
GENERAL PLAN NOTES:

- 1) 8'-0" CEILING HGT. 8'-1 1/2" PLATE HGT. U.N.O.
- 2) ALL WALLS FIGURED AT 4" WIDTHS U.N.O.
- 3) SET WINDOWS AT 7'-0" A.F.F. UNLESS NOTED OTHERWISE.
- 4) DIMENSIONS ARE TO FRAMING UNLESS NOTED OTHERWISE.
- 5) CONSULT WINDOW MANUFACTURER'S SPECS. FOR EGRESS REQUIREMENTS, PRESSURE RATINGS, & ROUGH OPNG'S.
- 6) ALL DIMENSIONS SHOWN ARE TO FACE OF FOUNDATION AND/OR FACE OF STUD (FRAMING) UNLESS NOTED OTHERWISE.
- 7) PROVIDE WOOD BLOCKING IN WALL FRAMING FOR ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO: TOWEL BARS, TOILET PAPER HOLDERS, SHELVING ATTACHMENT, ROBE HOOKS, GRAB BARS, ETC.

TRIANGLE BUILD. & PROP.
Lot 42 - Purfoy

02/02/2022

Revisions

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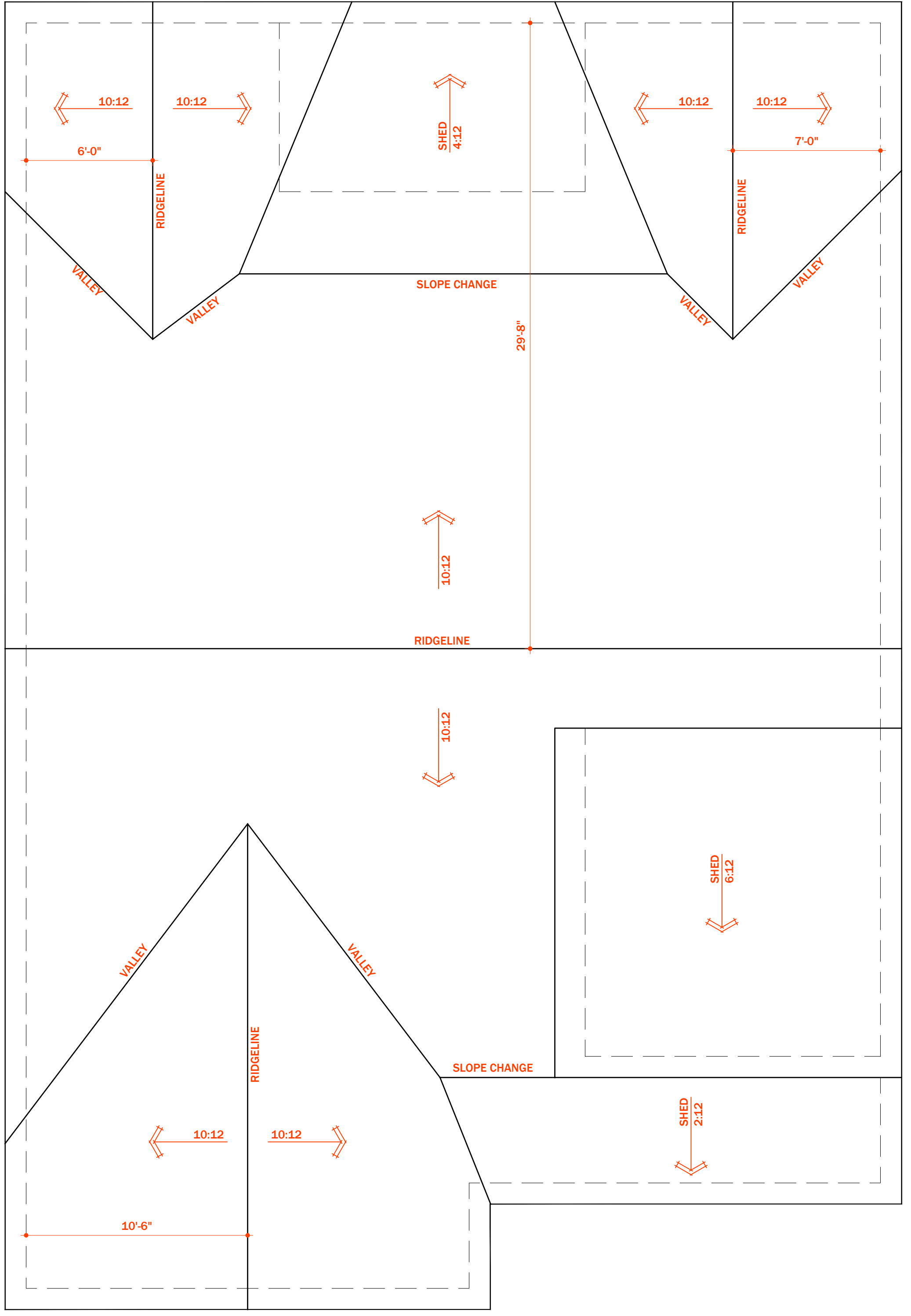
Project North

Drawing Title
Roof Plan

Scale 1/4"=1'-0"

Sheet No.
A5.0

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1 / A5.0 PLAN: roof

ATTIC VENTILATION			
REQUIRED			
2538 SQ. FT. OF ATTIC / 300 = 8.46 SQ. FT. OF INLET & OUTLET			
PROVIDED (INLET)			(TOTAL OF INLET)
SOFFIT .07 SQ. FT. PER LINEAR FT. x 60 LINEAR FT. = 4.2 OF VENT.			SQ. FT. 49 %
(OUTLET)			(TOTAL OF OUTLET)
RIDGE .11 SQ. FT. PER LINEAR FT. x 40 LINEAR FT. = 4.4 OF VENT.			SQ. FT. 51 %
GABLE _____ SQ. FT. PER VENT. x _____ NO. VENTS = _____			SQ. FT. OF VENT. _____ %
			TOTAL SQ. FT. OF VENT. 8.6