

Date: 01/25/2020 6:21pm User: CAD6 File: D:\CAD\MHD Design\1\100\Projects\Donald Glover - Barn\Drawings\Latest\_Rev\100\B-1.dwg

SEE SHEET "S-2" FOR TYPICAL FOUNDATION & FRAMING DETAILS AND GENERAL NOTES

AREA CALC'S	
SQUARE FTG'S TO STUD	
FLOOR AREA - HEATED	3,160 SQ. FT.
FLOOR AREA - UNHEATED (LAWN)	450 SQ. FT.
TOTAL ENCLOSED AREA	3,600 SQ. FT.
FRONT COVERED PORCH	
	200 SQ. FT.
SIDE COVERED PORCH	
	288 SQ. FT.
TOTAL UNHEATED	
	488 SQ. FT.
GROSS	
(HEATED, UNHEATED, PORCH & DECK, GARAGE, UNFINISHED AREA)	4,088 SQ. FT.
AREA NOTES:	
ALL CALCULATIONS ABOVE ARE FOR AREAS UNDER COVER FROM ROOF STRUCTURE ABOVE.	
SQUARE FOOTAGE CALCULATED FOR ALL HEATED AREAS ABOVE 5'-0" HEAD HEIGHT, AND TO EXTERIOR WALLS, OR PERIMETERS OF STRUCTURE DIMENSIONS AS SHOWN ON FLOOR PLANS.	
OPEN TO BELOW AREAS ARE OMITTED.	
STAIRWAYS COUNTED ONCE PER TWO STORIES, AND INCLUDED ON LOWER STORY LEVEL OF STAIRS.	

**MHD DESIGN**  
BUILDING DESIGN & DRAFTING SERVICES  
252-813-3491

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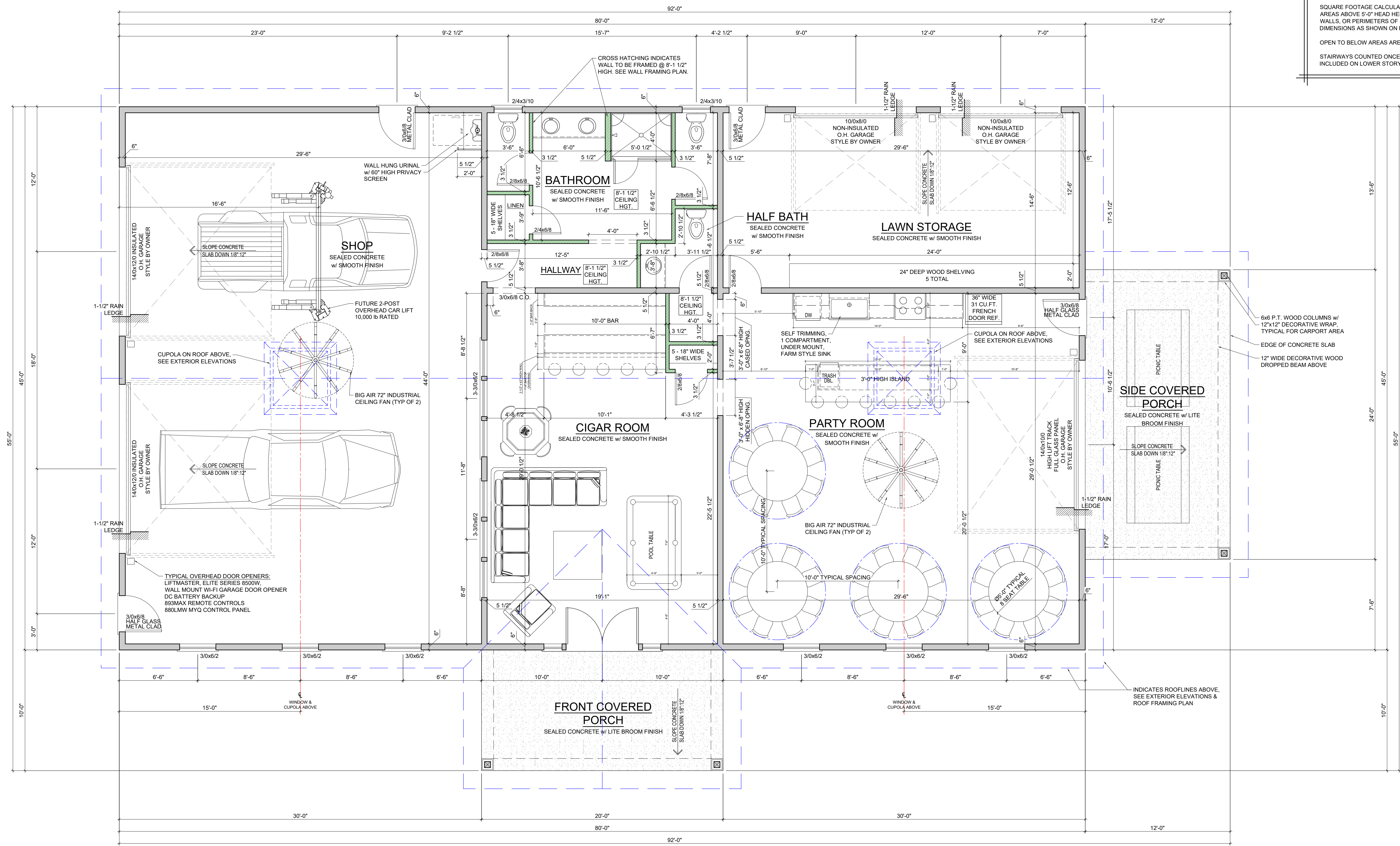
**MHD Design, Inc.**  
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Revisions:

Detached Garage for:  
**Donald Ray Glover**  
155 Addie Webb Lane  
Dunn, NC 28334

**B-1**

Sheet No.  
Oct 25, 2020, 6:21pm  
Plotted on:  
**FLOOR PLAN**  
Sheet title:



**1 FLOOR PLAN**  
B-1  
14'-0" HIGH CEILING (NOMINAL) U.N.O.  
7'-4" TYPICAL WINDOW HEAD HGT. U.N.O.

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

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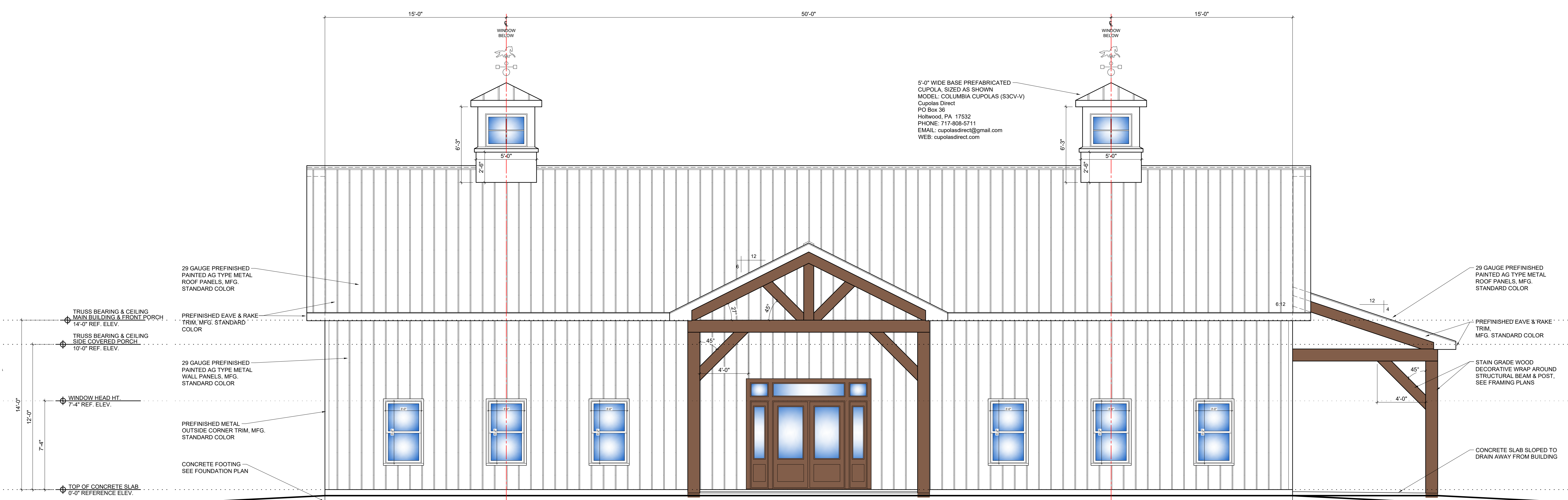
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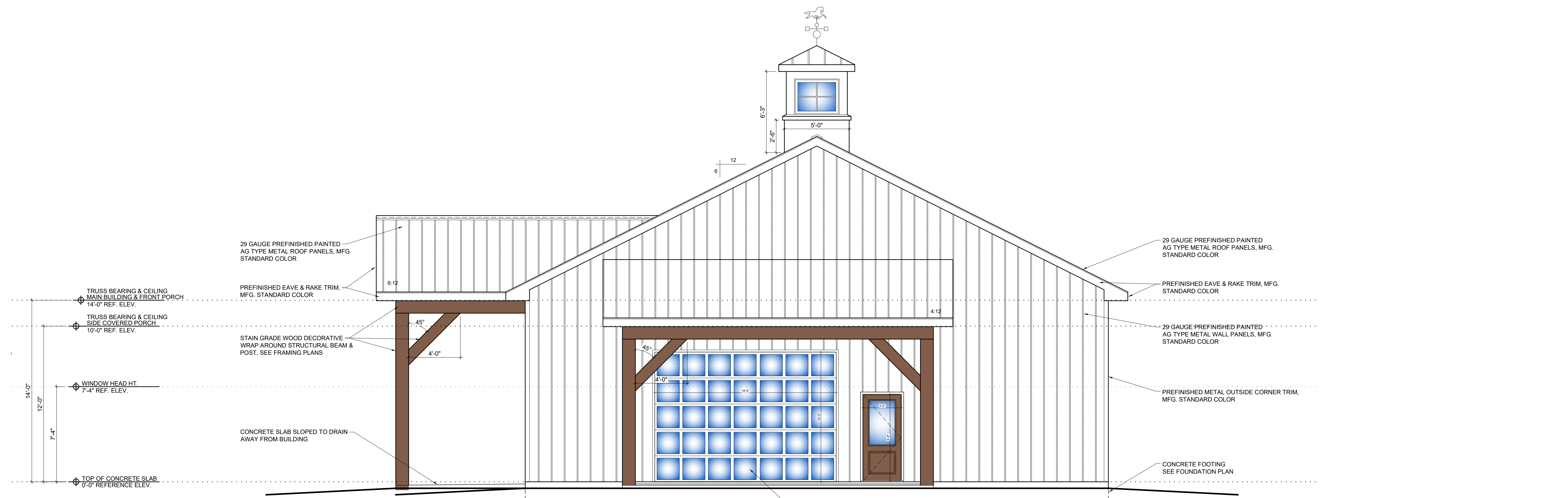
**B-2**  
Sheet No.  
Oct 25, 2020, 6:21pm  
Plotted on:  
**EXTERIOR ELEVATIONS**  
Sheet title:

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1 FRONT ELEVATION

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



2 RIGHT ELEVATION

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

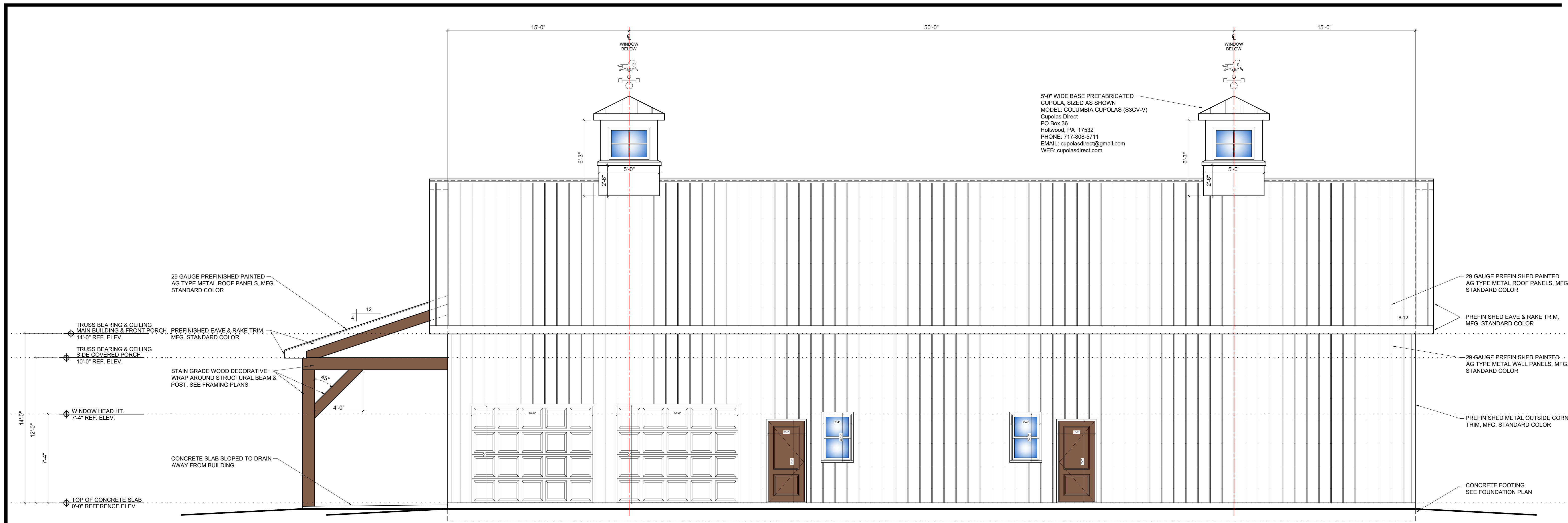
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Revisions:

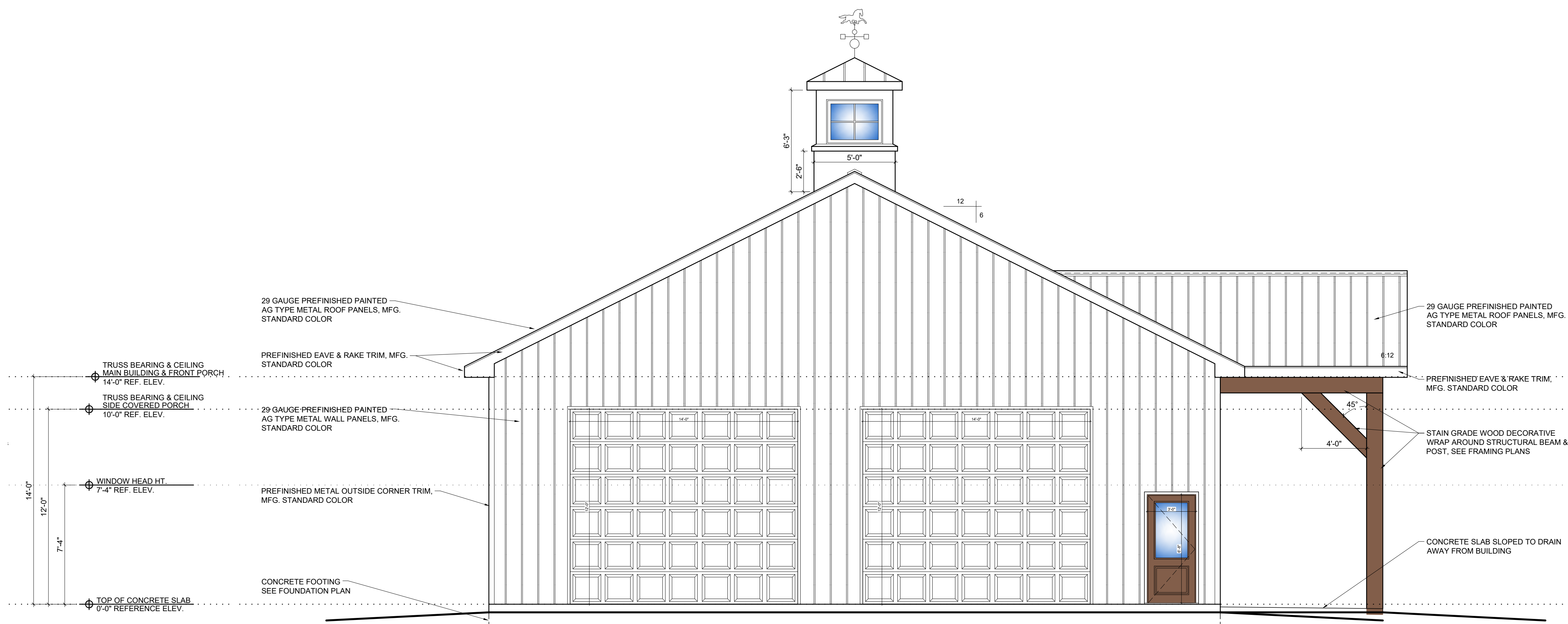
Detached Garage for:  
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Dunn, NC 28334

**B-3**  
Sheet No.  
Oct 25, 2020, 6:21pm  
Plotted on:  
**EXTERIOR ELEVATIONS**  
Sheet title:



1 REAR ELEVATION

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

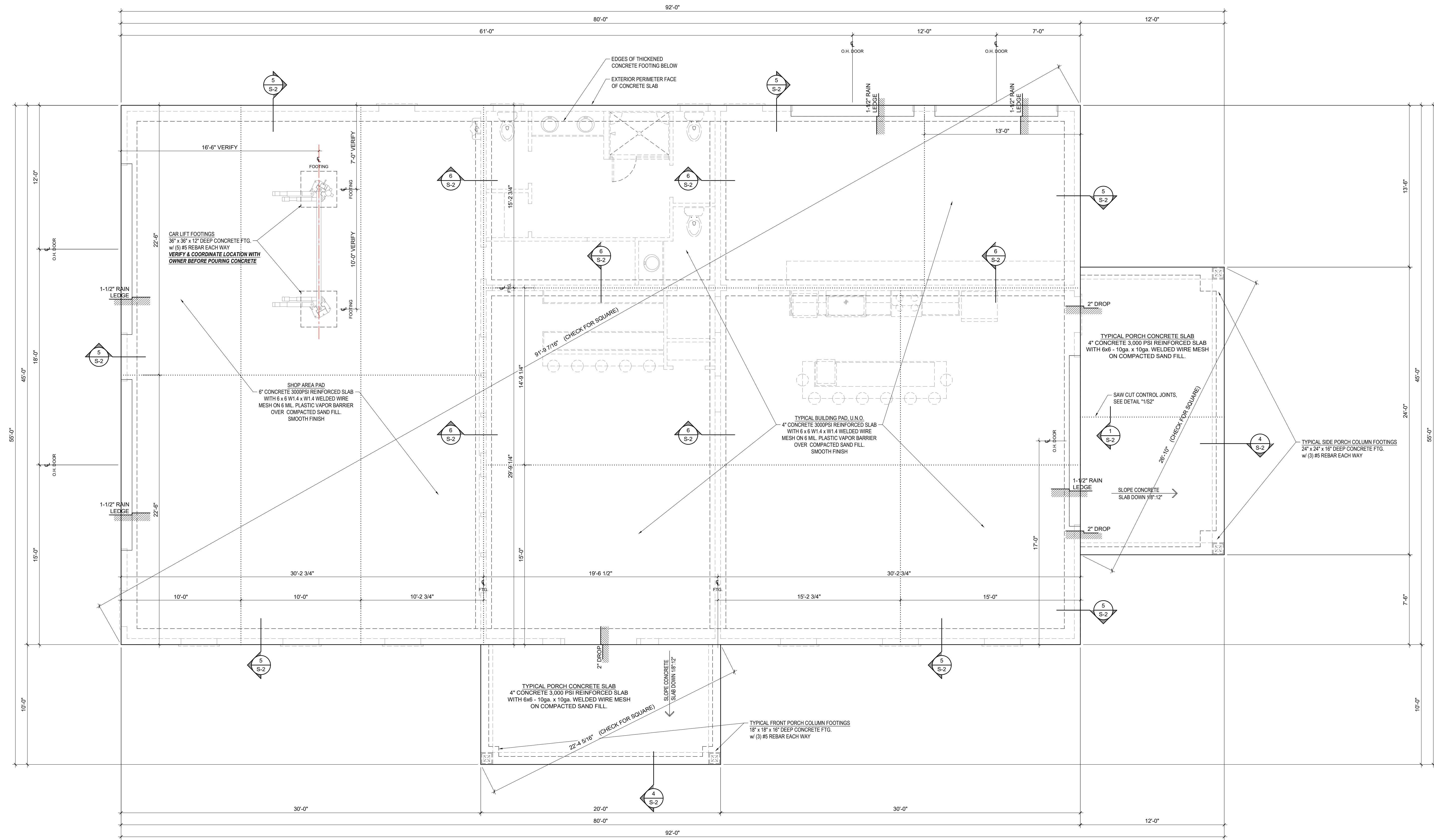


2 LEFT ELEVATION

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

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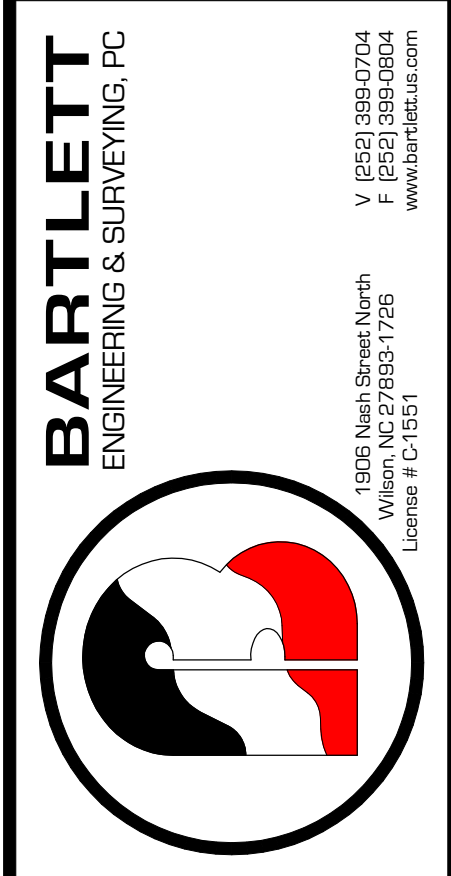
SEE SHEET "S-2" FOR TYPICAL FOUNDATION & FRAMING DETAILS AND GENERAL NOTES



1 FOUNDATION PLAN  
S-1 CONCRETE SLAB ON GRADE

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

Owner:  
**Donald Ray Glover**  
Mobile 910.984.4823  
155 Addie Webb Lane Dunn, NC 28334

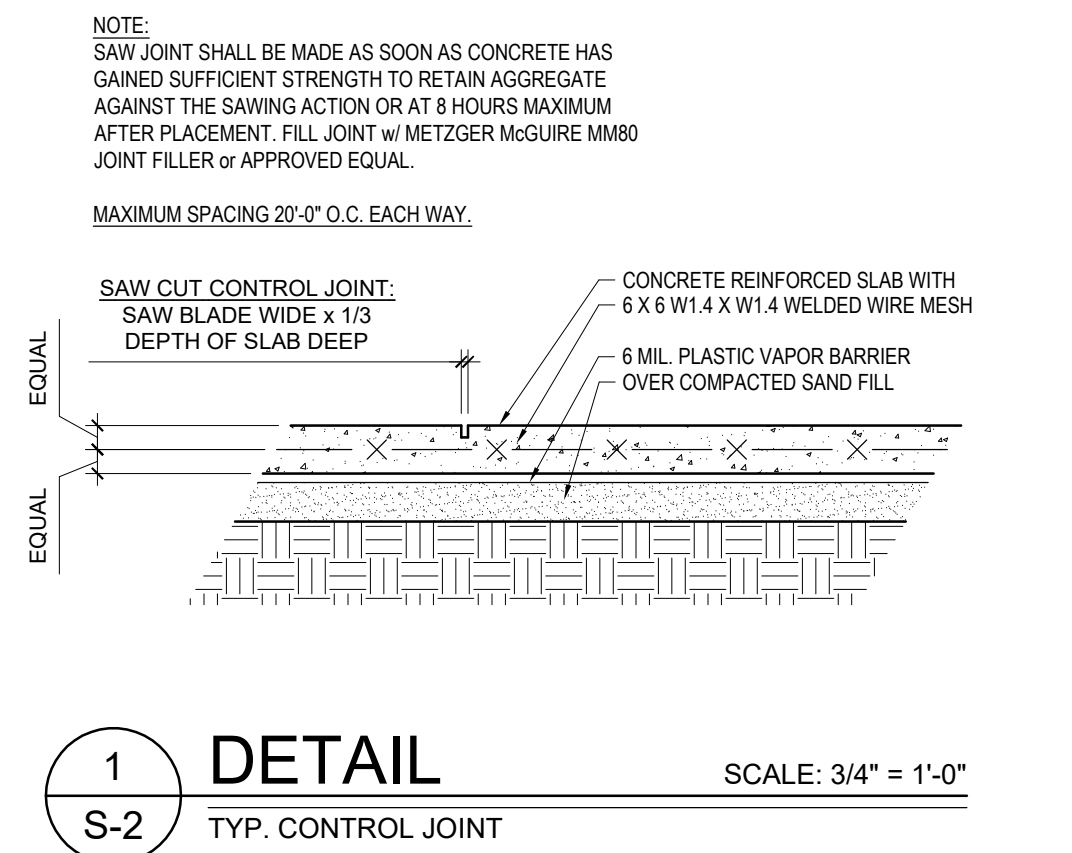


1-22-2021

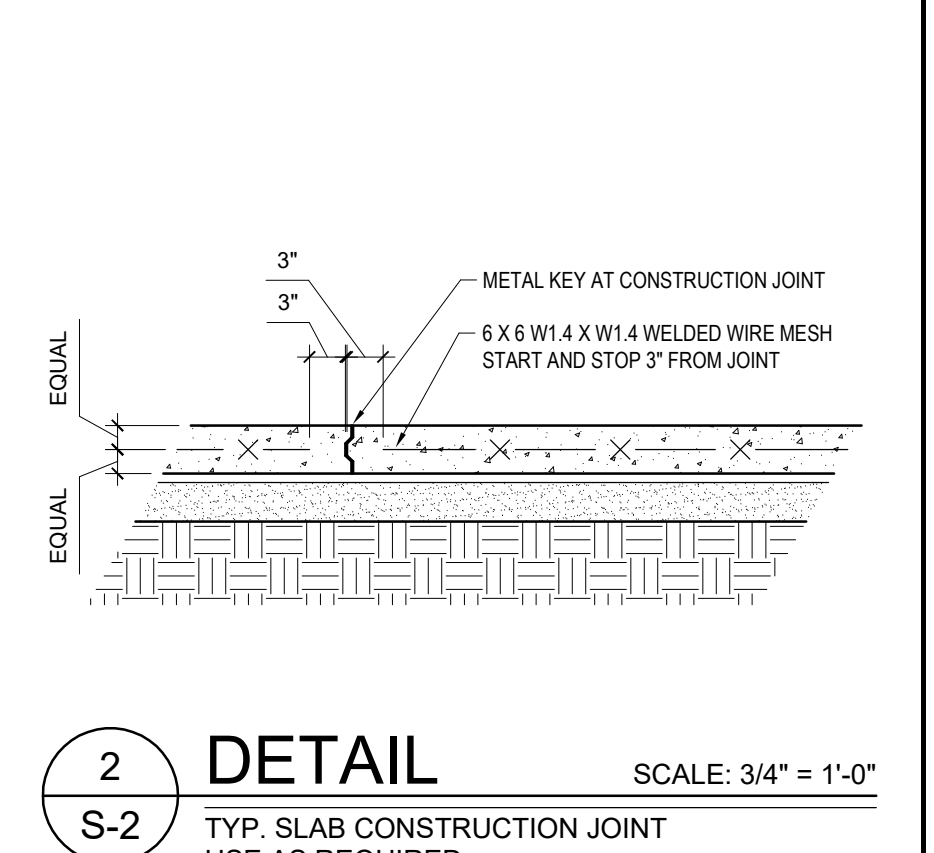
Rev.	Date	Description

Title Sheet: **FOUNDATION PLAN**  
Project: Structural plans for Detached Garage for:  
**Donald Ray Glover**  
155 Addie Webb Lane Dunn, NC 28334

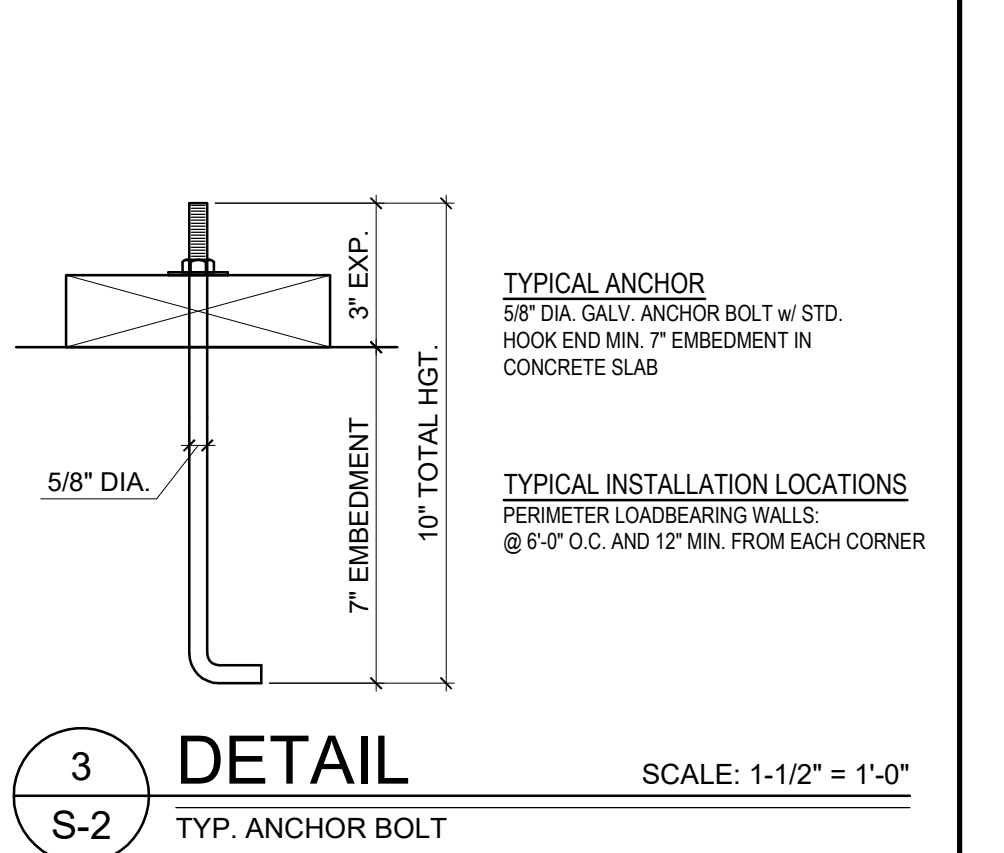
Drawn by: M. Morgan  
Issue Date: 1-22-2021  
Project Number:  
Sheet: **S-1**



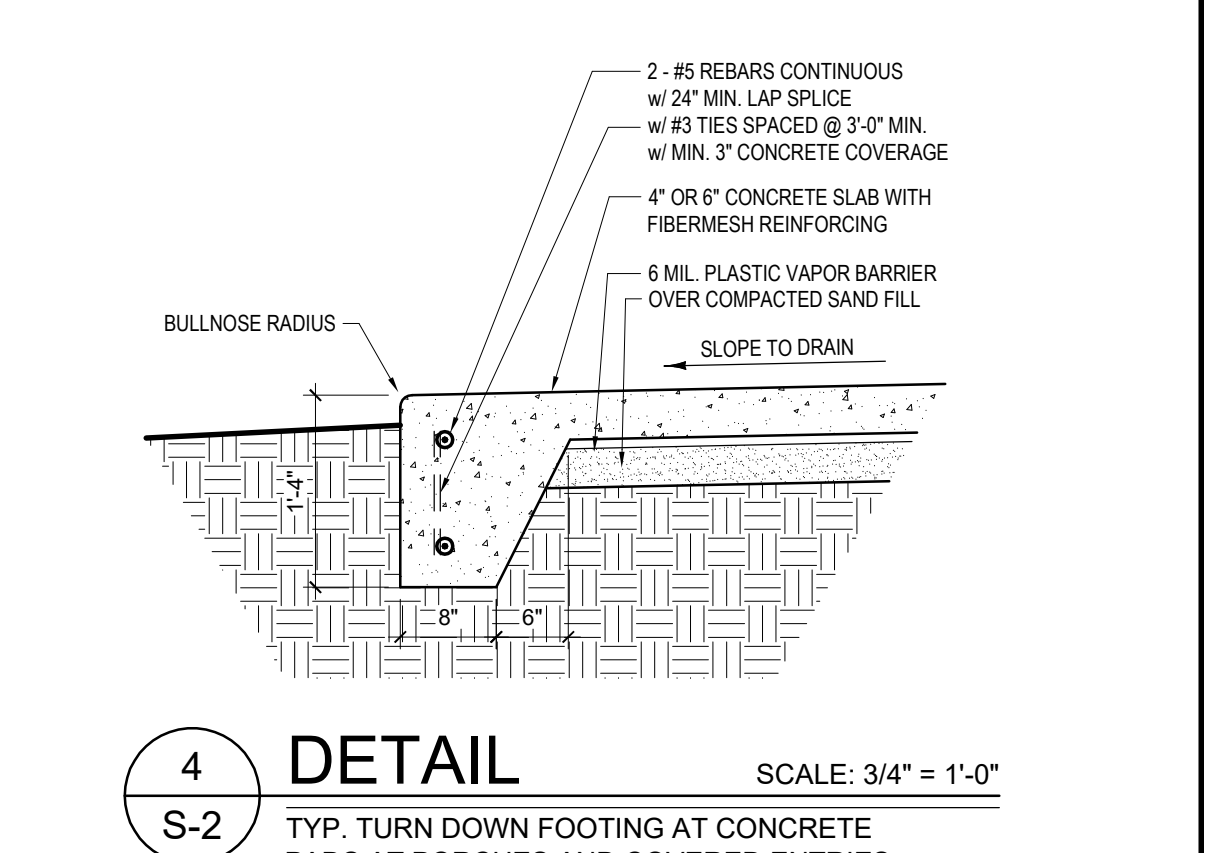
**1 DETAIL** SCALE: 3/4" = 1'-0"  
S-2 TYP. CONTROL JOINT



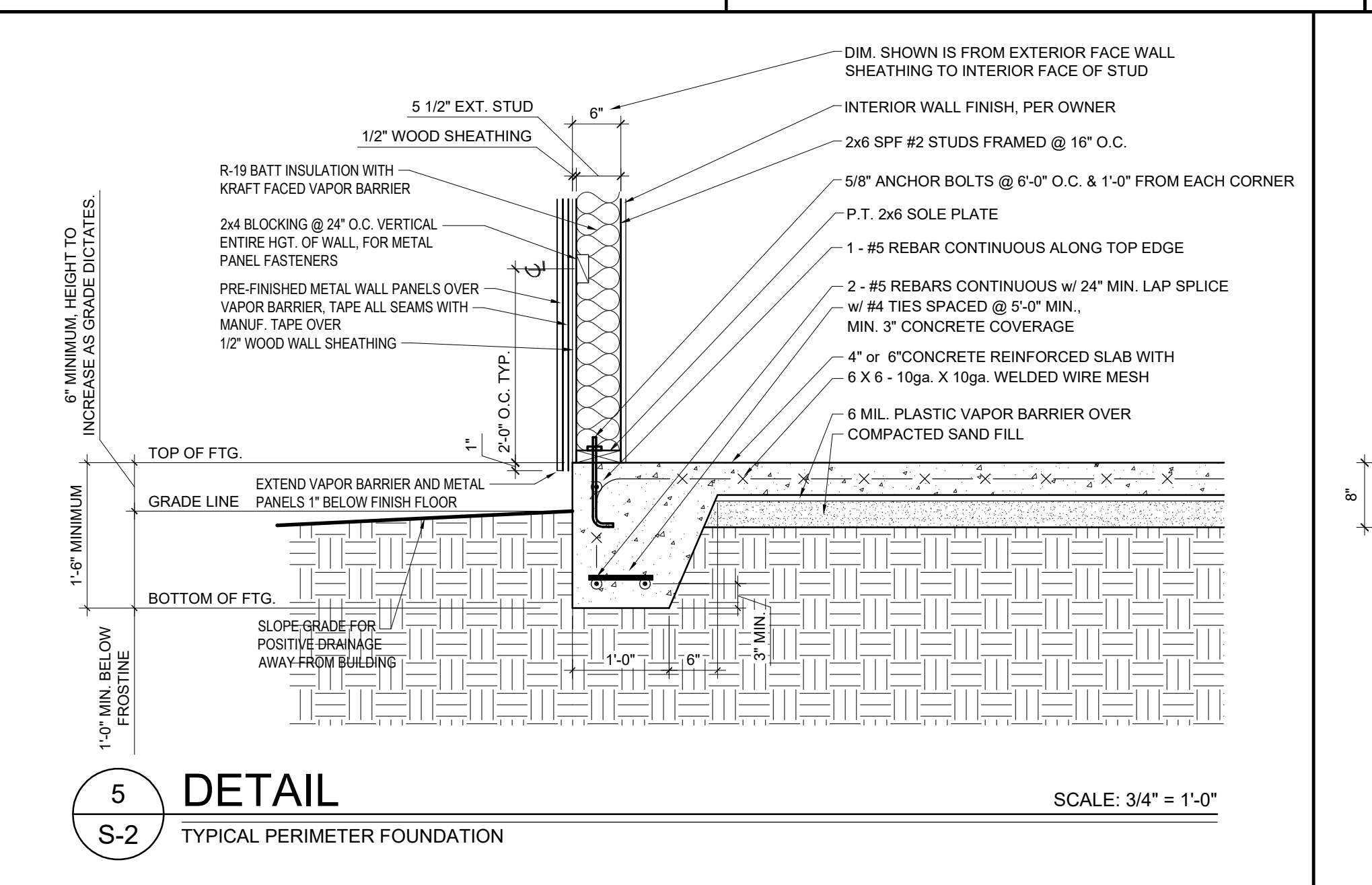
**2 DETAIL** SCALE: 3/4" = 1'-0"  
S-2 TYP. SLAB CONSTRUCTION JOINT USE AS REQUIRED



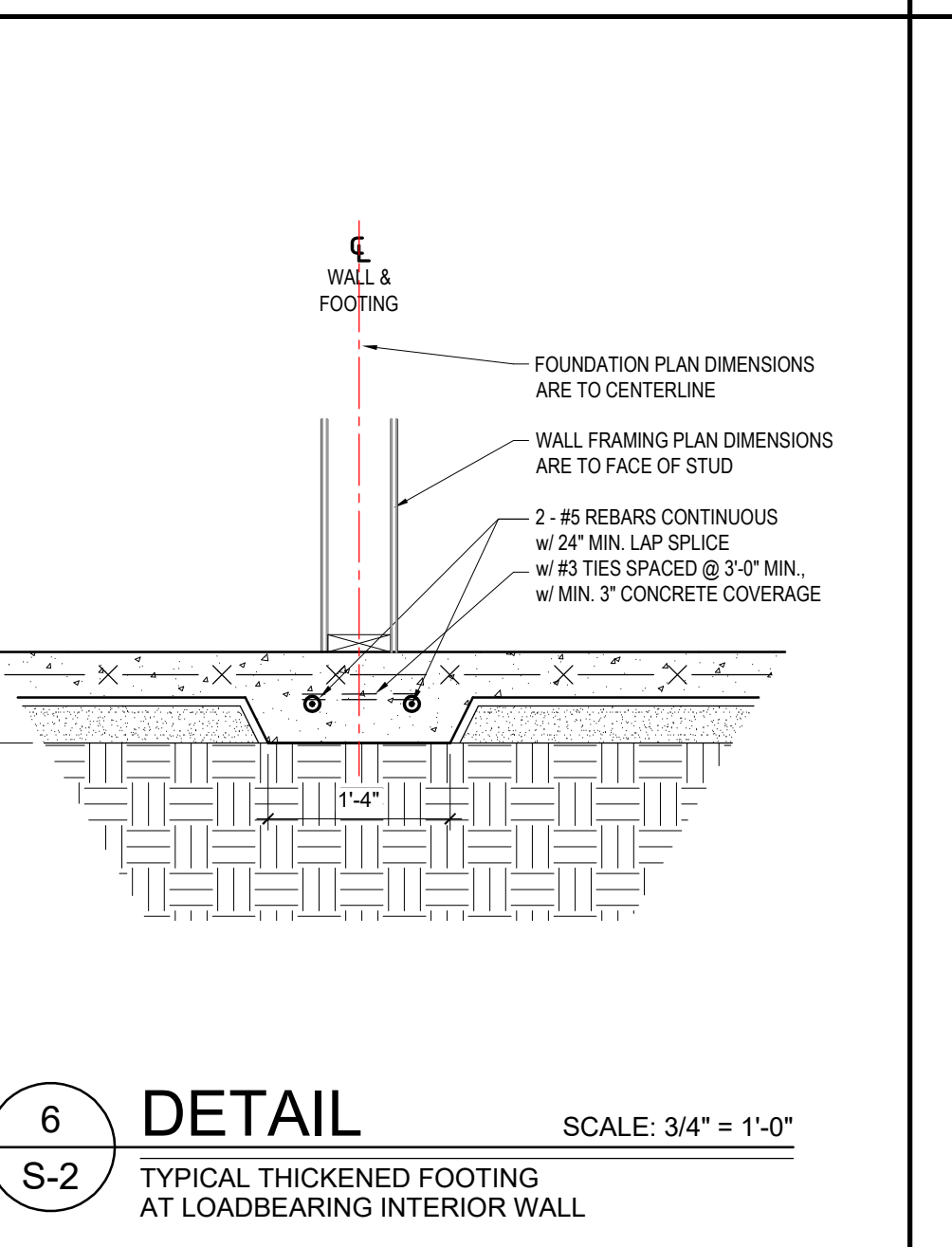
**3 DETAIL** SCALE: 1-1/2" = 1'-0"  
S-2 TYP. ANCHOR BOLT



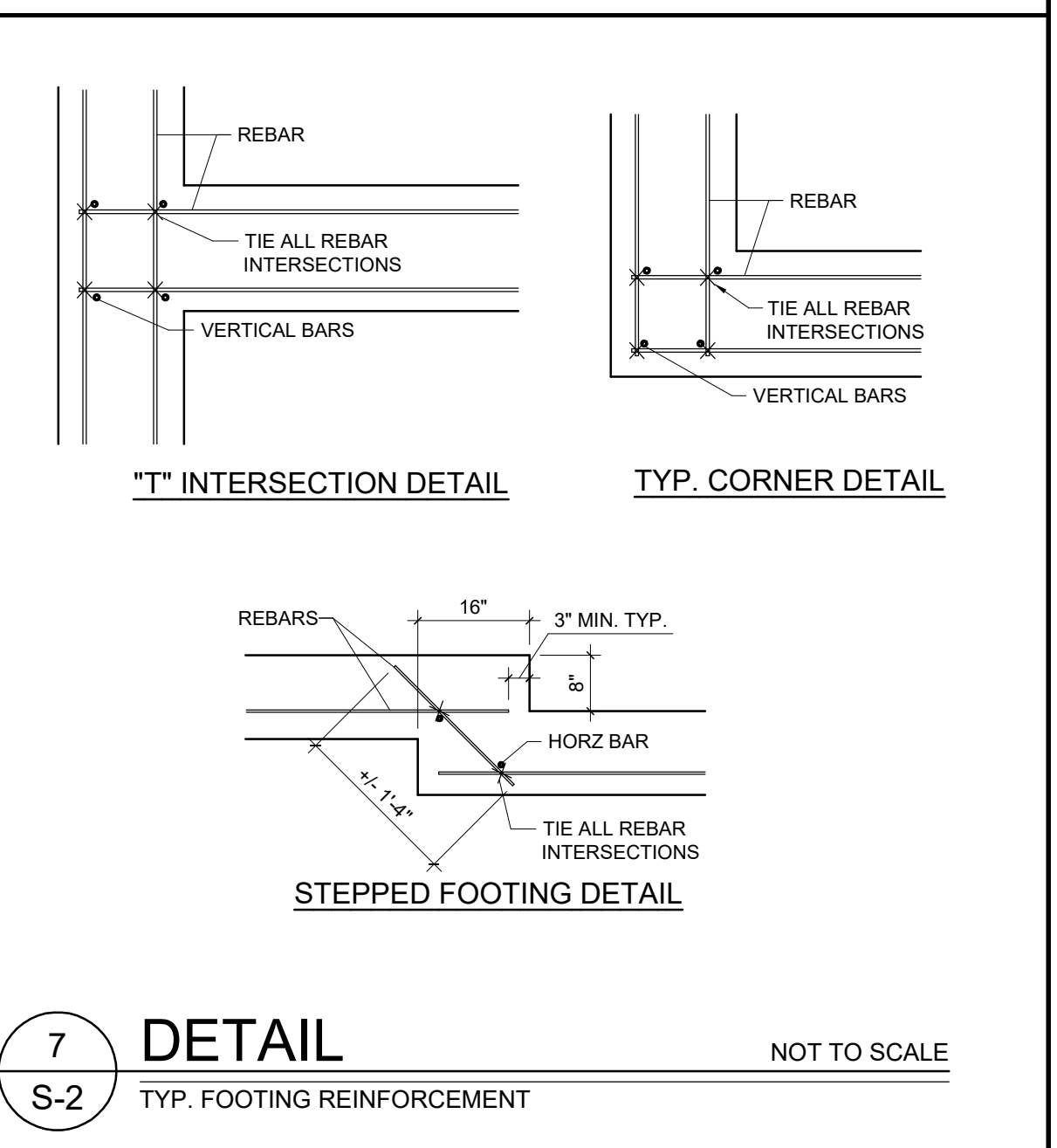
**4 DETAIL** SCALE: 3/4" = 1'-0"  
S-2 TYP. TURN DOWN FOOTING AT CONCRETE PADS AT PORCHES AND COVERED ENTRIES



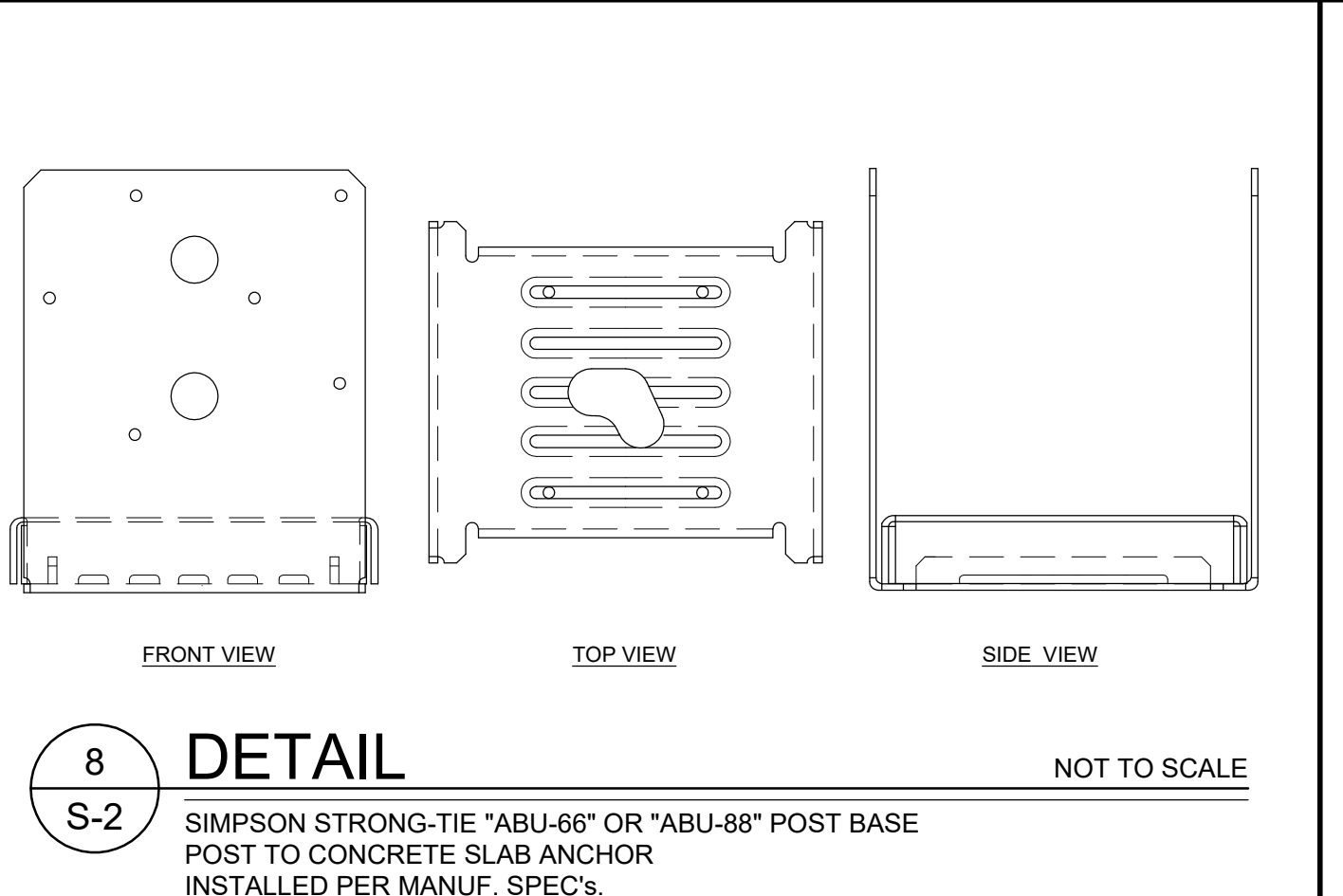
**5 DETAIL** SCALE: 3/4" = 1'-0"  
S-2 TYPICAL PERIMETER FOUNDATION



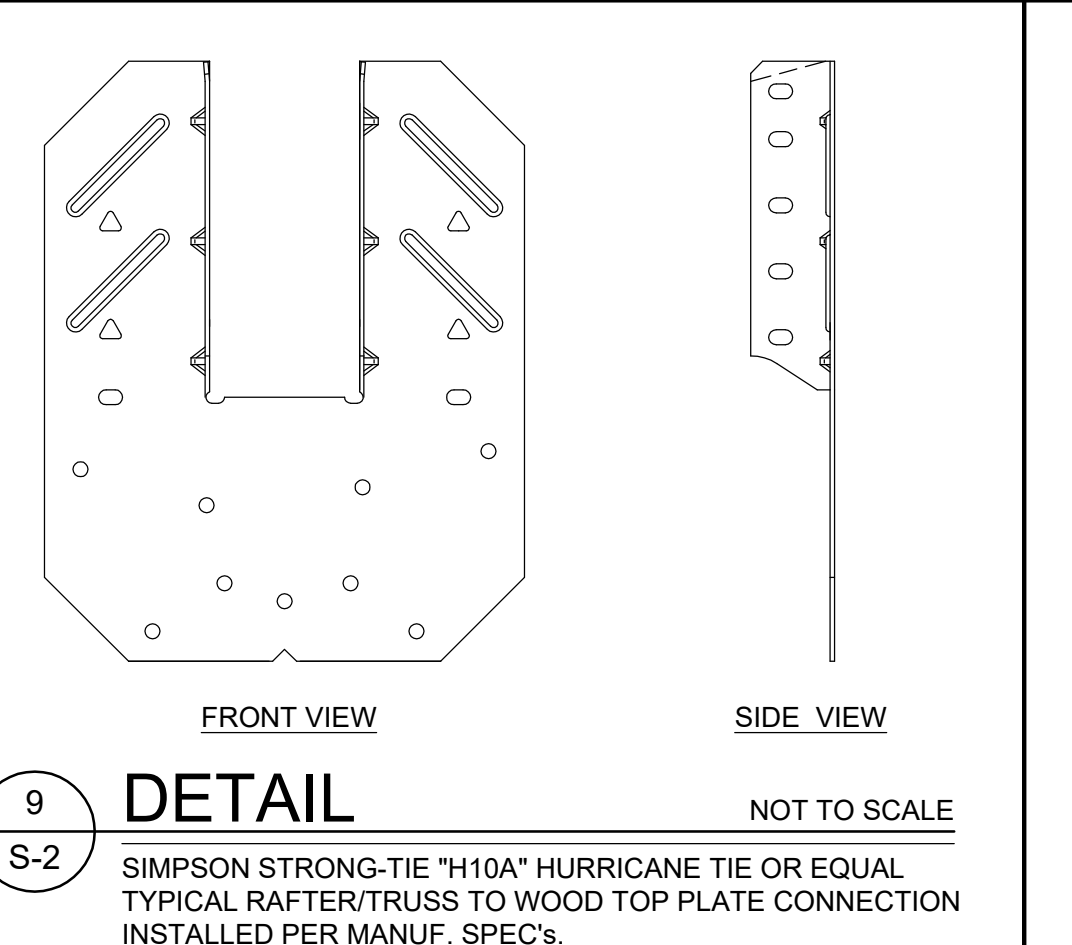
**6 DETAIL** SCALE: 3/4" = 1'-0"  
S-2 TYPICAL THICKENED FOOTING AT LOADBEARING INTERIOR WALL



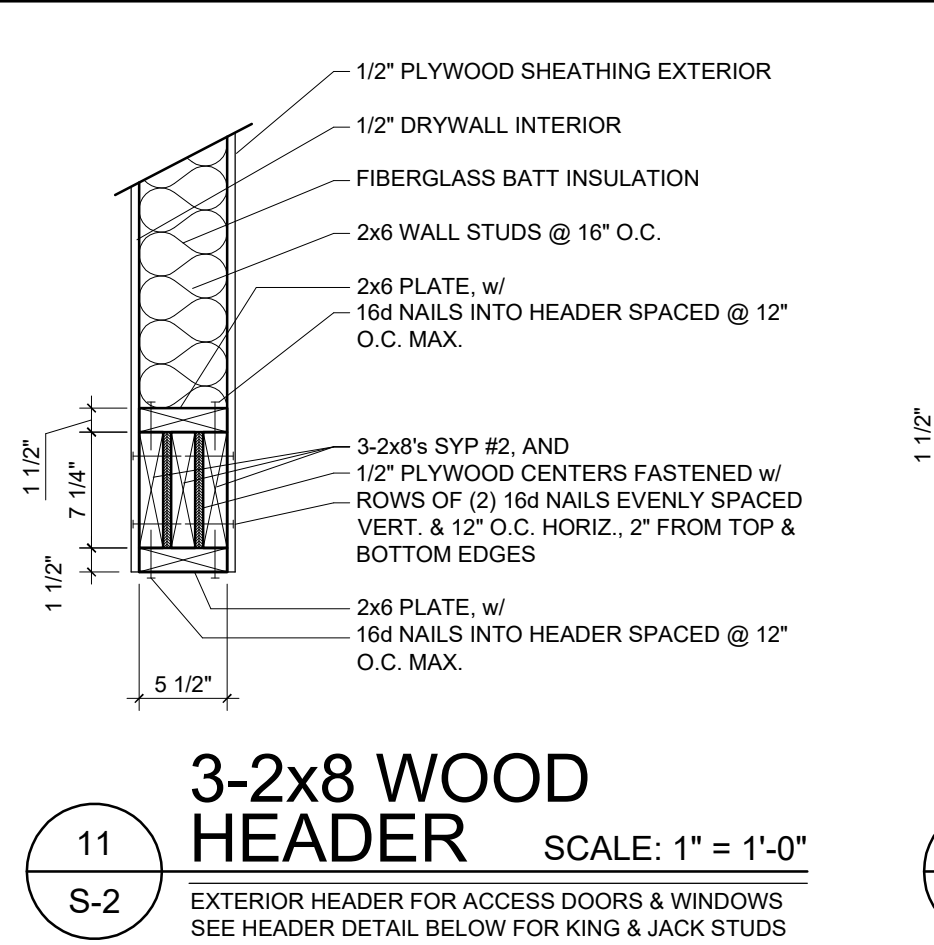
**7 DETAIL** NOT TO SCALE  
S-2 TYP. FOOTING REINFORCEMENT



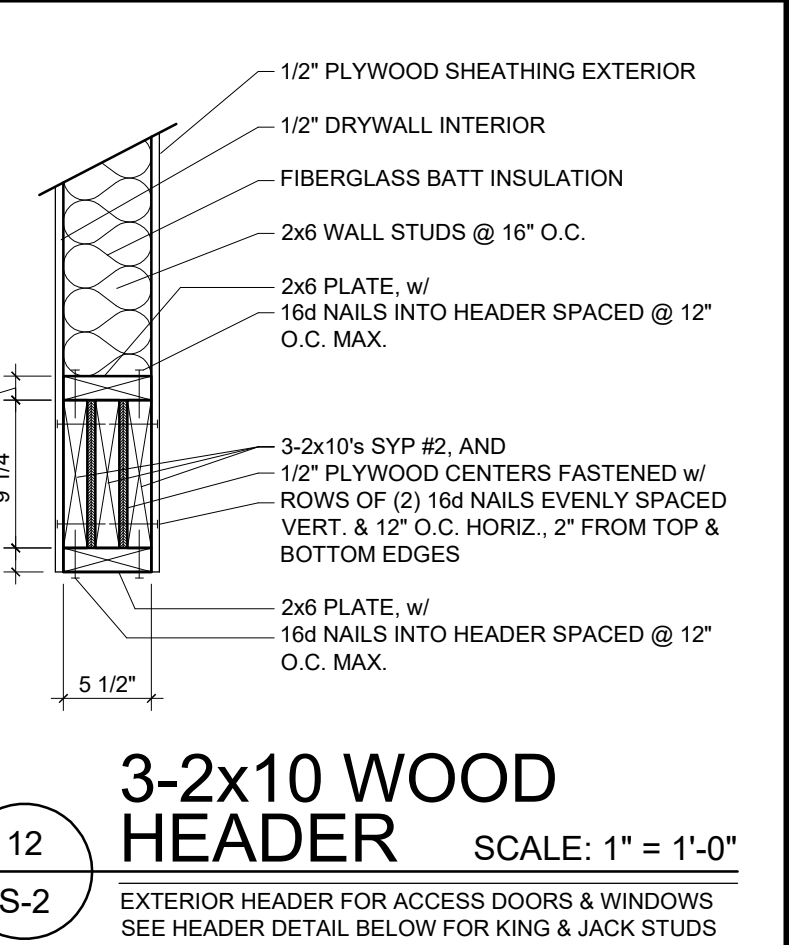
**8 DETAIL** NOT TO SCALE  
S-2 SIMPSON STRONG-TIE "ABU-66" OR "ABU-88" POST BASE POST TO CONCRETE SLAB ANCHOR INSTALLED PER MANUF. SPEC'S.



**9 DETAIL** NOT TO SCALE  
S-2 SIMPSON STRONG-TIE "H10A" HURRICANE TIE OR EQUAL TYPICAL RAFTER/TRUSS TO WOOD TOP PLATE CONNECTION INSTALLED PER MANUF. SPEC'S.



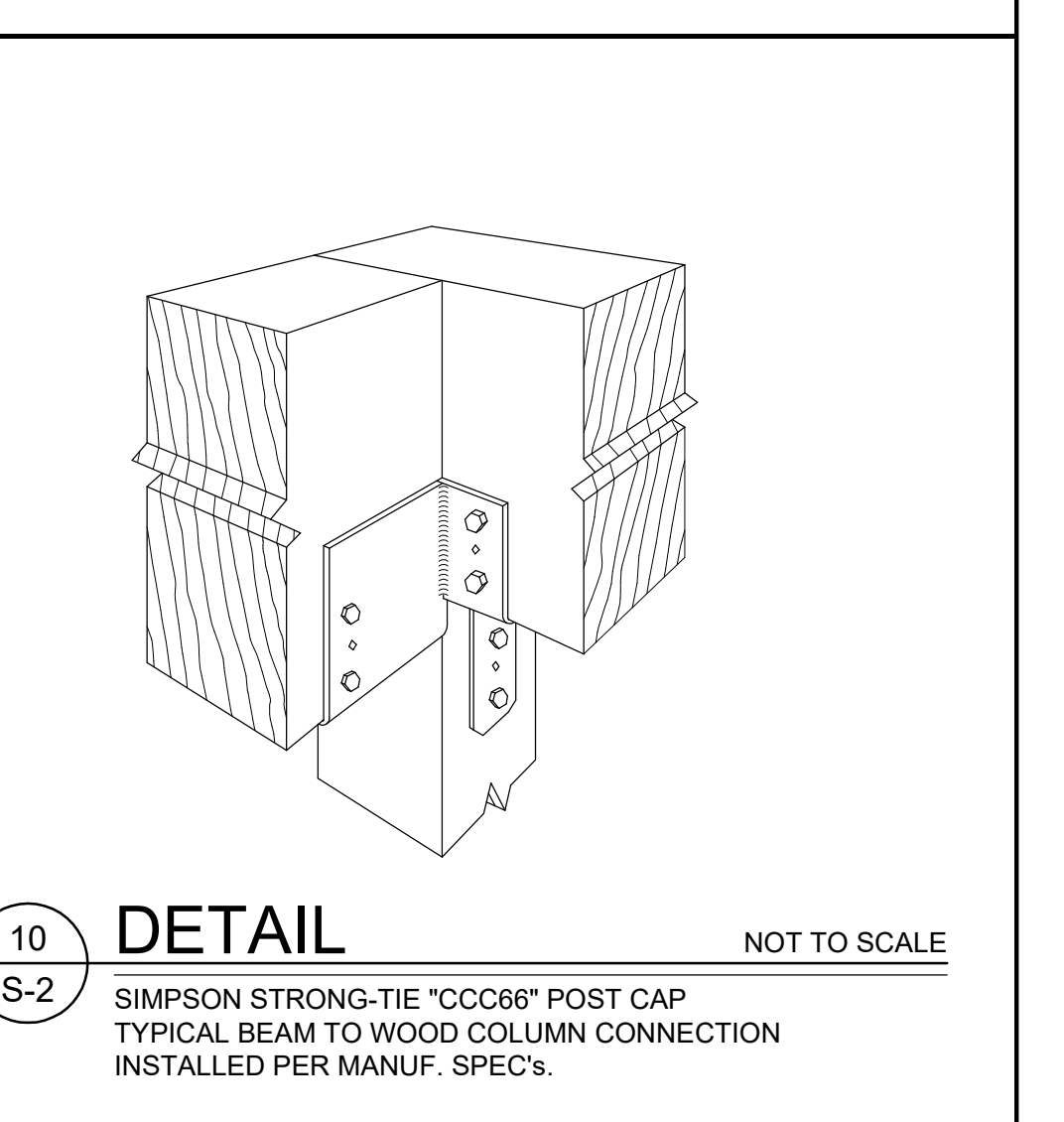
**11** SCALE: 1" = 1'-0"  
S-2 EXTERIOR HEADER FOR ACCESS DOORS & WINDOWS SEE HEADER DETAIL BELOW FOR KING & JACK STUDS NOT FOR OVERHEAD GARAGE DOORS



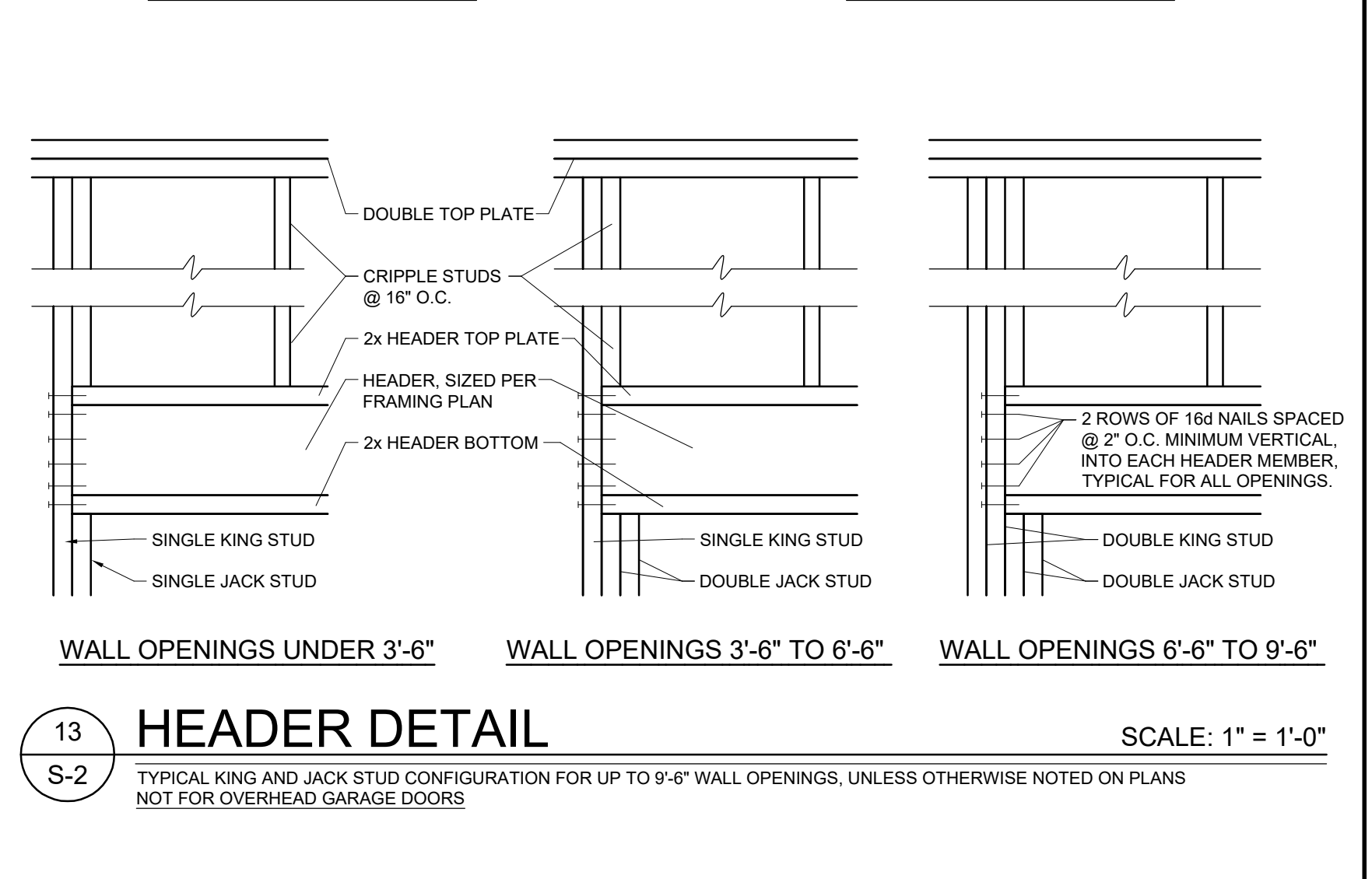
**12** SCALE: 1" = 1'-0"  
S-2 EXTERIOR HEADER FOR ACCESS DOORS & WINDOWS SEE HEADER DETAIL BELOW FOR KING & JACK STUDS NOT FOR OVERHEAD GARAGE DOORS



**10 DETAIL** NOT TO SCALE  
S-2 SIMPSON STRONG-TIE "CCC66" POST CAP TYPICAL BEAM TO WOOD COLUMN CONNECTION INSTALLED PER MANUF. SPEC'S.



**13** SCALE: 1" = 1'-0"  
S-2 TYPICAL KING AND JACK STUD CONFIGURATION FOR UP TO 9'-6" WALL OPENINGS, UNLESS OTHERWISE NOTED ON PLANS NOT FOR OVERHEAD GARAGE DOORS

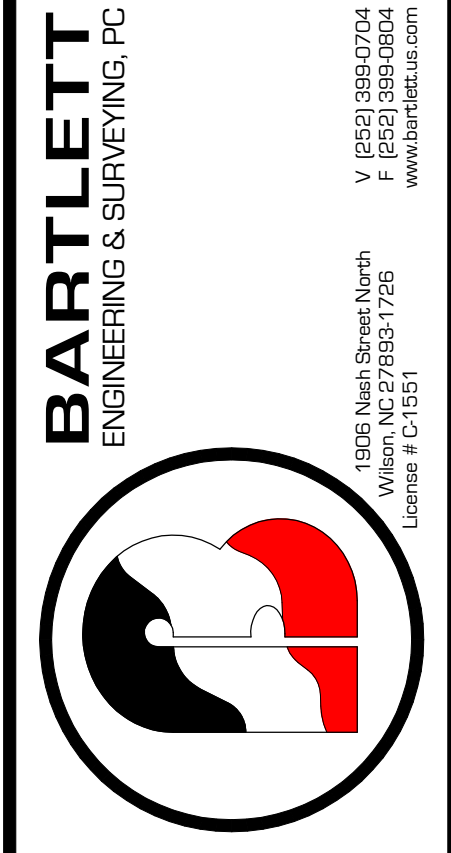


**14** SCALE: 1" = 1'-0"  
S-2 WALL OPENINGS UNDER 3'-6" WALL OPENINGS 3'-6" TO 6'-6" WALL OPENINGS 6'-6" TO 9'-6"

**STRUCTURAL NOTES**

- FOUNDATIONS**
- ALLOWABLE DESIGN SOIL BEARING PRESSURE OF 1500 PSF ASSUMED SHALL BE VERIFIED IN THE FIELD BEFORE START OF CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
  - FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE ENGINEER IN ORDER TO REACH FIRM SOIL.
  - COMPACT ALL FILL UNDER BUILDING TO 98 PERCENT MAXIMUM DENSITY AS DETERMINED BY ASTM D998. PLACE IN LAYERS 8" MAXIMUM LOOSE THICKNESS. VERIFY FIELD DENSITY. ASTM D1556, WITH AT LEAST ONE TEST PER 1,000 SQUARE FOOT PER LAYER.
- CONCRETE**
- CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS = 3,000 PSI.
  - REINFORCING: ASTM A615 - STIRRUPS AND TIES GRADE 40, ELSEWHERE GRADE 60.
  - GROUT UNDER BASE PLATES SHALL BE NON-SHRINKING TYPE AS APPROVED BY THE ENGINEER.
  - BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES 48 TIMES THE BAR DIAMETER, U.N.O.
  - COVERAGE FROM FACE OF CONCRETE TO STEEL: FOOTINGS \_\_\_\_\_ 3 INCHES SLABS EXPOSED TO EARTH AND WEATHER \_\_\_\_\_ 1 1/2 INCHES
  - PROVIDE WWF REINFORCING IN ALL SLABS ON GROUND: 4" SLAB \_\_\_\_\_ 6 X 6 - W/ 4 X W/ 4 PLACE WWF AT MID DEPTH OF SLAB, TYPICAL U.N.O.
  - ALL EXPANSION STRIPS SHALL BE 1/2" THICK U.N.O.
- STRUCTURAL STEEL**
- STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS. STRUCTURAL TUBE SHAPES, PLATES AND BARS: ASTM A36. "W" STRUCTURAL STEEL SHAPES: ASTM A992, GRADE 50. STRUCTURAL TUBE SHAPES: ASTM A500, GRADE B. ANCHOR BOLTS: ASTM A307.
  - DESIGN, FABRICATION AND ERECTION: AISC SPECIFICATIONS FOR BUILDINGS.
  - CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR LOADS SHOWN ON DRAWINGS OR FOR LOADS GIVEN IN STANDARD AISC LOAD TABLES FOR SPAN, SECTION AND STRENGTH SPECIFIED. BOLTED CONNECTIONS WITH 3/4" DIAMETER A325 BOLTS U.N.O. TIGHTEN NUTS TO A MINIMUM OF 200 FT-LB OF TORQUE.
  - WELDS SHALL BE IN ACCORDANCE WITH AWS D1.1 AND SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELD REQUIRED.
  - RETURN ALL WELDS AT THE CORNERS TWICE THE NORMAL SIZE OF THE WELD MINIMUM.
  - WHERE PLATES ARE FILLET WELDED TO MEMBERS AND NO WELD SIZE IS SPECIFIED PROVIDE FULL LENGTH FILLET WELDS BOTH SIDES OF PLATE AS FOLLOWS:
- |       |       |       |       |      |       |       |       |       |
|-------|-------|-------|-------|------|-------|-------|-------|-------|
| PLATE | 3/16" | 1/4"  | 5/16" | 3/8" | 7/16" | 1/2"  | 9/16" | 5/8"  |
| WELD  | 3/16" | 3/16" | 3/16" | 1/4" | 1/4"  | 5/16" | 3/8"  | 7/16" |
- METAL ROOF TIE OPTIONS**
- ROOF RAFTERS, REPETITIVE MEMBERS:
- SIMPSON H16 HURRICANE TIE EACH RAFTER EACH END FASTENED W/ SIMPSON 10d x1-1/2" NAILS IN EACH HOLE OF CONNECTOR "OR"
  - SIMPSON H2.5A HURRICANE TIE EACH RAFTER (OPPOSITE SIDES) EACH END FASTENED W/ SIMPSON 10d x1-1/2" NAILS IN EACH HOLE OF CONNECTORS
- ROOF HIP & VALLEY MEMBERS:
- SIMPSON H10 HURRICANE TIE EACH MEMBER EACH END FASTENED W/ SIMPSON 10d x1-1/2" NAILS IN EACH HOLE OF CONNECTOR
- ENGINEERED WOOD FRAMING**
- ALL ENGINEERED WOOD LVL'S SPECIFIED ARE TO GEORGIA PACIFIC BRAND RATED AT 2.0E OR EQUAL.
  - ALL ASPECTS OF ENGINEERED WOOD INSTALLATION SHALL BE DONE STRICTLY ACCORDING TO THE MANUFACTURERS SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE BUILDER TO BECOME AWARE AND WELL VERSED OF SAME.
  - ALL METAL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD TO HAVE MANUFACTURERS FACTORY APPLIED ADDITIONAL CORROSION PROTECTION FROM PRESSURE TREATED WOOD PRESERVATIVES. SEE MANUF. SPEC'S. FOR MORE INFORMATION.
  - MIN. 2 BEARING STUDS ARE TO BE USED UNDER EACH END OF ALL BEAMS AND HEADERS UNLESS NOTED WITH THIS SYMBOL. EX IF BEARING LOCATION IS NOTED WITH THIS SYMBOL, IT INDICATES THE NUMBER OF BEARING STUDS TO BE USED. (MIN. #2 SPF UNLESS NOTED OTHERWISE)

**Donald Ray Glover**  
Mobile 910.984.4823  
155 Addie Webb Lane Dunn, NC 28534

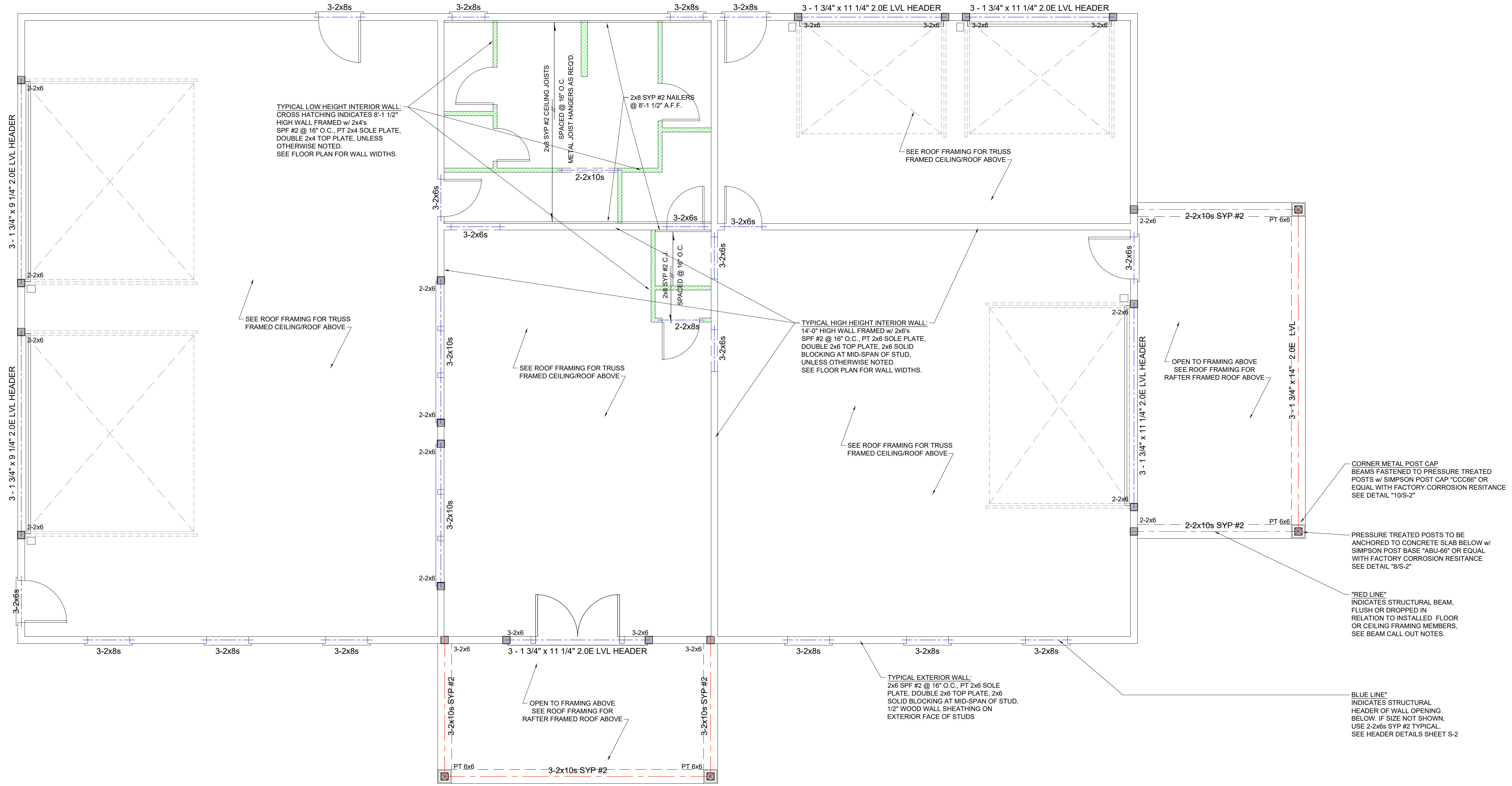


Rev.	Date:	Description:

Title Sheet: **FOUNDATION DETAILS**  
Project: Structural plans for Detached Garage for:  
**Donald Ray Glover**  
155 Addie Webb Lane Dunn, NC 28534

Drawn by: M. Morgan  
Issue Date: 1-22-2021  
Project Number:  
Sheet: **S-2**

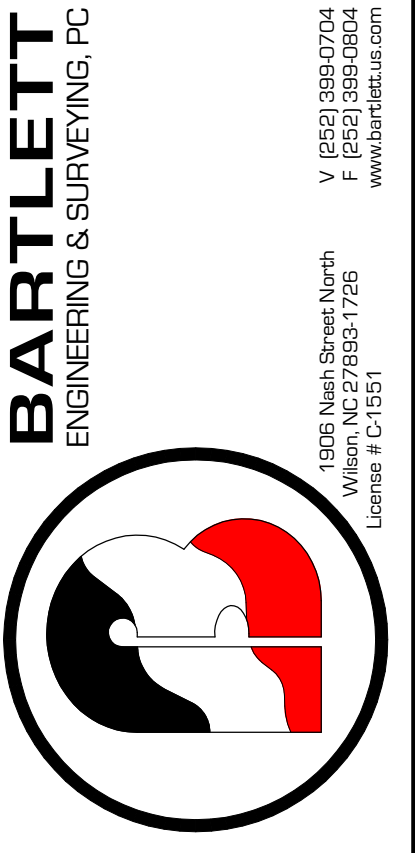
SEE SHEET "S-2" FOR TYPICAL FOUNDATION & FRAMING DETAILS AND GENERAL NOTES



1 WALL FRAMING PLAN  
S-3

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

**Donald Ray Glover**  
Mobile 910.984.4823  
155 Addie Webb Lane Dunn, NC 28334



Rev:	Date:	Description:

Title Sheet: **WALL FRAMING PLAN**  
Structural plans for Detached Garage for:  
**Donald Ray Glover**  
155 Addie Webb Lane Dunn, NC 28334

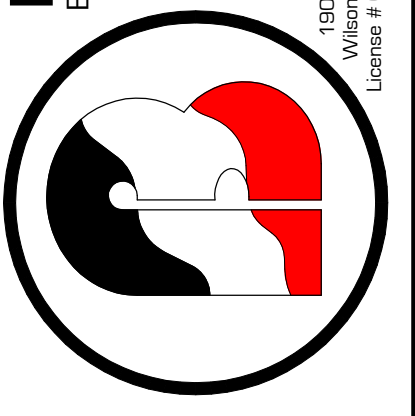
Drawn by: M. Morgan  
Issue Date: 1-22-2021  
Project Number:  
Sheet: **S-3**

SEE SHEET "S-2" FOR TYPICAL FOUNDATION & FRAMING DETAILS AND GENERAL NOTES

**Donald Ray Glover**  
 Mobile 910.984-4823  
 155 Addie Webb Lane Dunn, NC 28334

Owner:

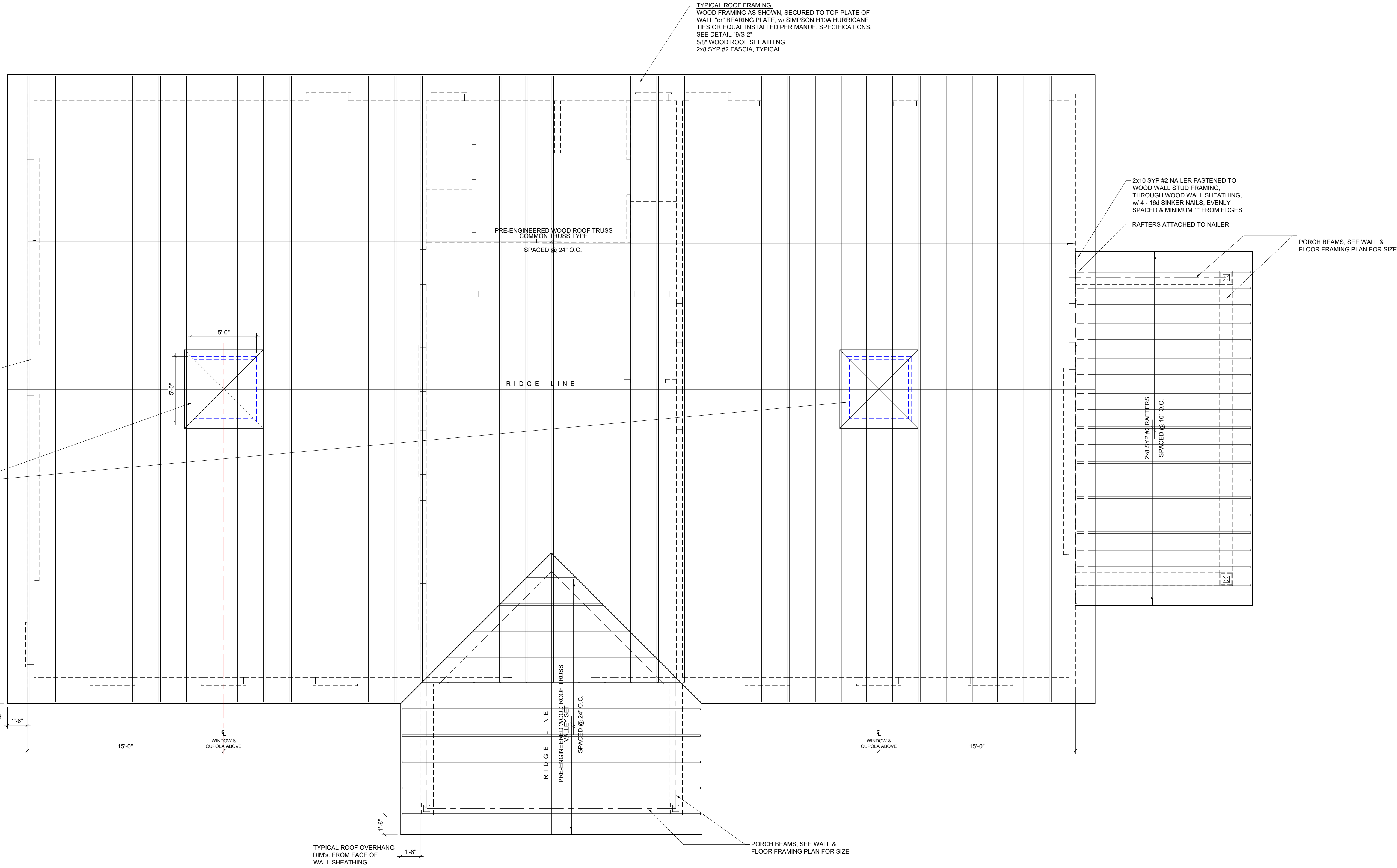
**BARTLETT**  
 ENGINEERING & SURVEYING, PC



Rev.	Date:	Description:

Title Sheet: **ROOF FRAMING PLAN**  
 Project: Structural plans for Detached Garage for:  
**Donald Ray Glover**  
 155 Addie Webb Lane Dunn, NC 28334

Drawn by: M. Morgan  
 Issue Date: 1-22-2021  
 Project Number:  
 Sheet: **S-4**



**1 ROOF FRAMING PLAN**  
 S-4

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