

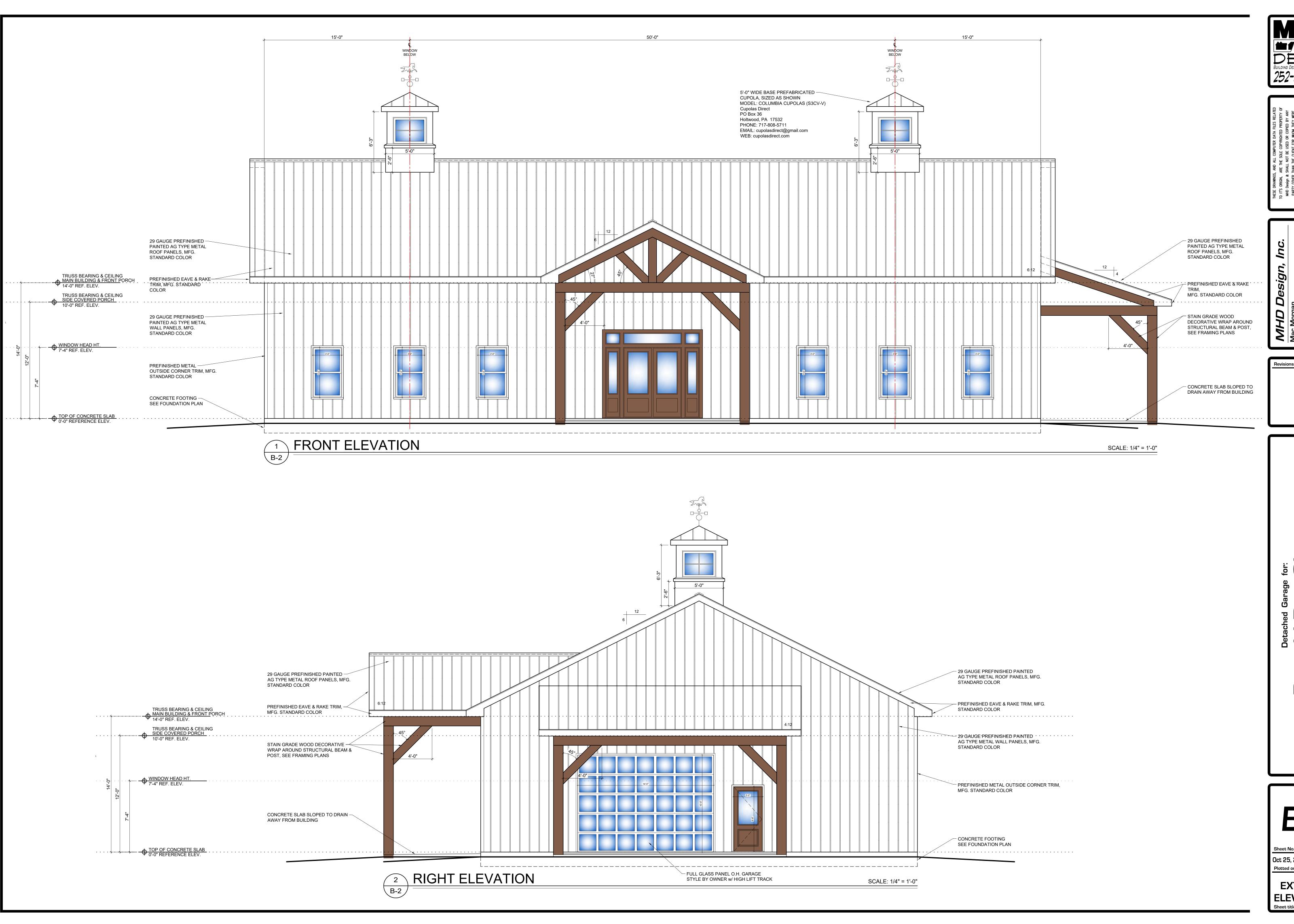


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Oct 25, 2020, 6:21pm

FLOOR PLAN



DESIGN BUILDING DESIGN & DRAFTING SERVICES 252-813-3491

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Revisions:

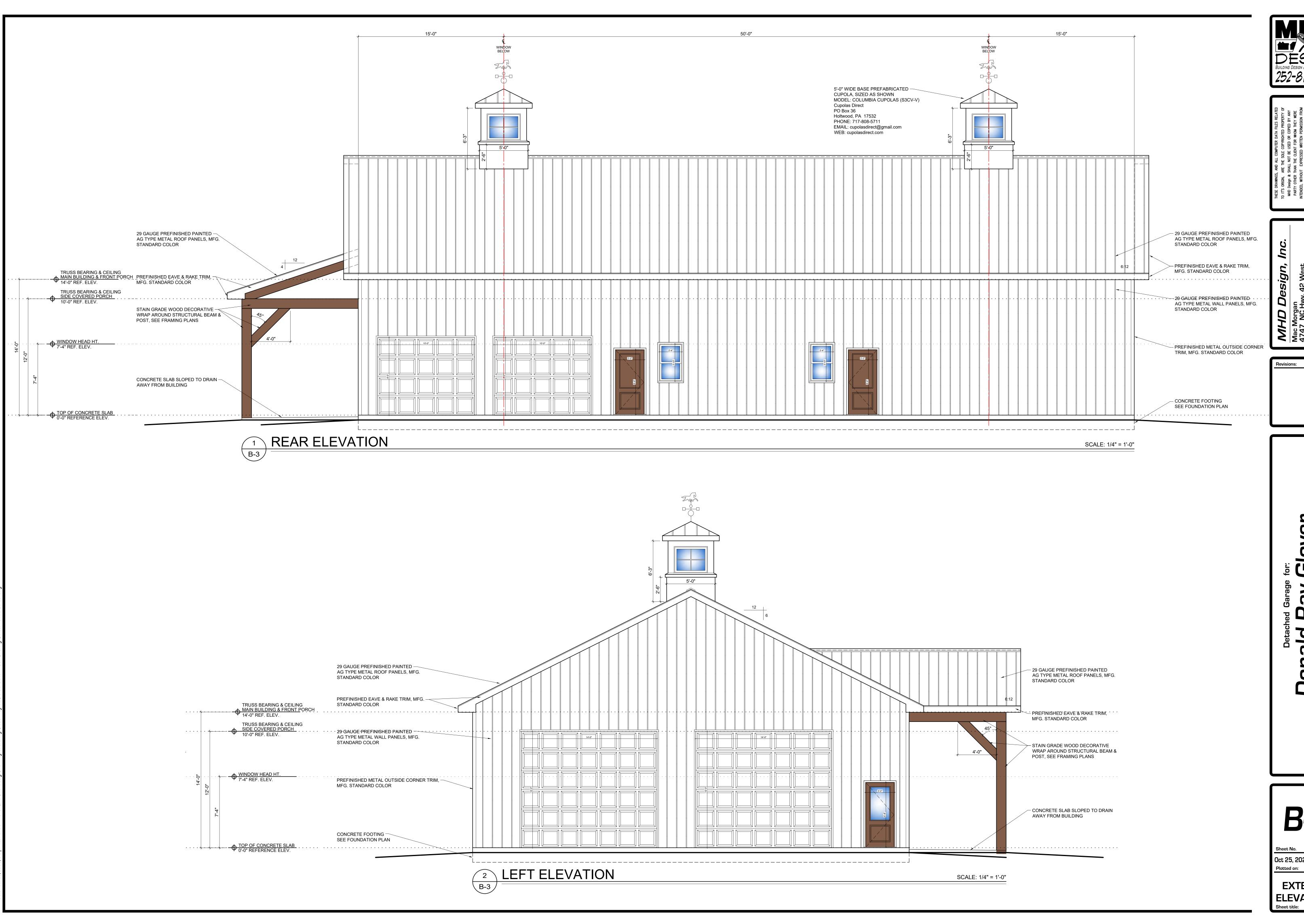
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Sheet No.
Oct 25, 2020, 6:21pm

EXTERIOR ELEVATIONS



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Oct 25, 2020, 6:21pm

EXTERIOR ELEVATIONS

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



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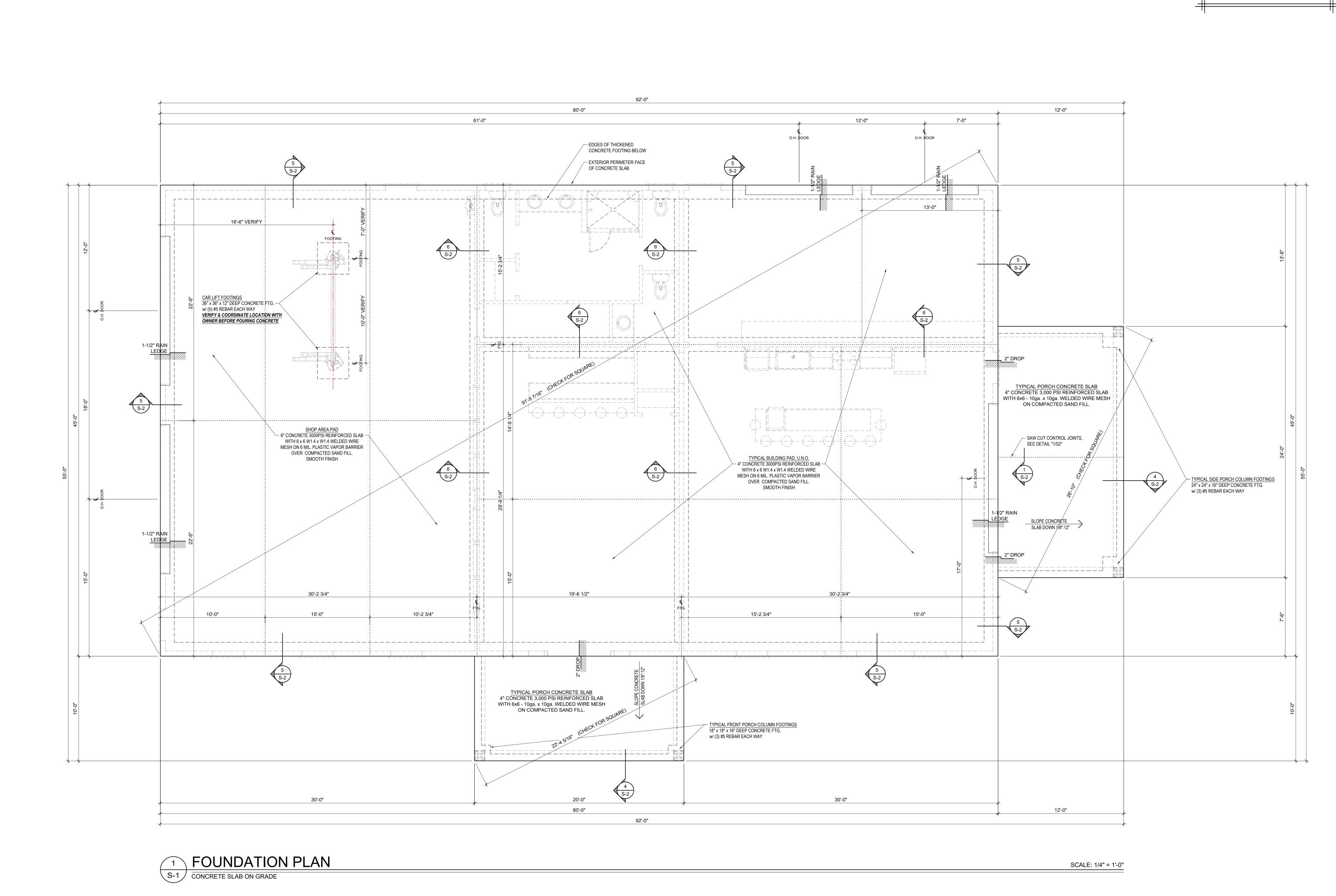
Detached Garage for:

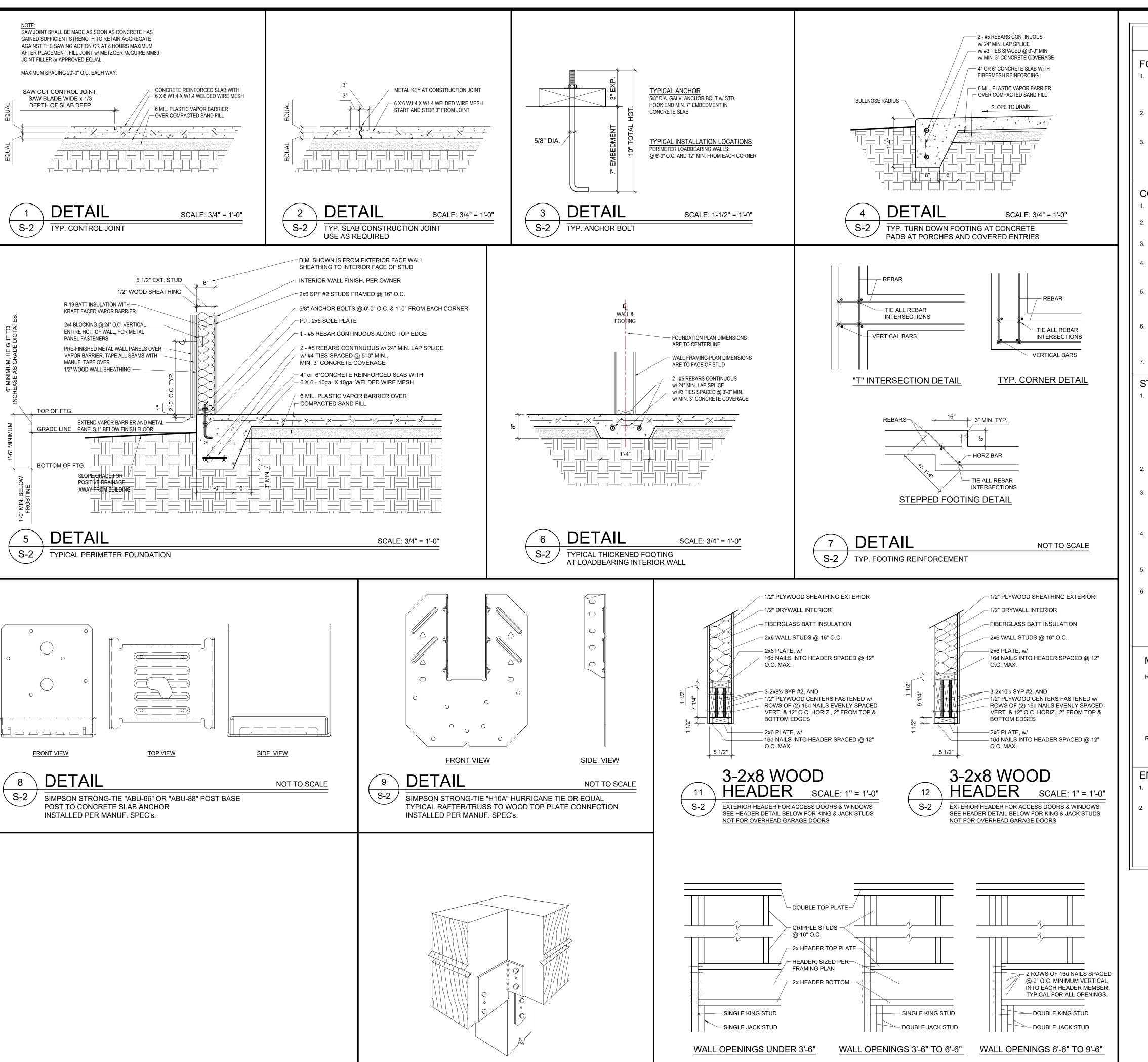
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Sheet No.
Oct 25, 2020, 6:22pm

FOUNDATION PLAN





NOT TO SCALE

HEADER DETAIL

NOT FOR OVERHEAD GARAGE DOORS

TYPICAL KING AND JACK STUD CONFIGURATION FOR UP TO 9'-6" WALL OPENINGS, UNLESS OTHERWISE NOTED ON PLANS

DETAIL

SIMPSON STRONG-TIE "CCC66" POST CAP

INSTALLED PER MANUF. SPEC's.

TYPICAL BEAM TO WOOD COLUMN CONNECTION

STRUCTURAL NOTES

FOUNDATIONS

1. 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 D698. PLACE IN LAYERS 8" MAXIMUM LOOSE THICKNESS. VERIFY FIELD DENSITY, ASTM D1556, WITH AT LEAST ONE TEST PER 1,000 SQUARE FOOT PER

CONCRETE

- 1. 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 6. APPROVED BY THE ENGINEER.
 - BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES 48 TIMES THE BAR DIAMETER,
- 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 - W1.4 X W1.4 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 STEEL 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 6. 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.
- 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: 1 - SIMPSON H16 HURRICANE TIE EACH RAFTER EACH END FASTENED w/ SIMPSON 10d x1-1/2" NAILS IN EACH
 - HOLE OF CONNECTOR 2 - SIMPSON H2.5A HURRICANE TIE EACH RAFTER (OPPOSITE SIDES) EACH END FASTENED w/ SIMPSON 10dx1-1/2" NAILS IN EACH HOLE OF CONNECTORS
- **ROOF HIP & VALLEY MEMBERS:** 1 - SIMPSON H10 HURRICANE TIE EACH MEMBER EACH END FASTENED w/ SIMPSON 10d x1-1/2" NAILS IN EACH

ENGINEERED WOOD FRAMING

HOLE OF CONNECTOR

SCALE: 1" = 1'-0"

- 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 MANUFACTURES SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE BUILDER TO BECOME AWARE AND WELL VERSED OF SAME.

STRUCTURAL MASONRY

- MASONRY WALLS, FOUNDATION WALLS, AND OTHER MASONRY SO DESIGNATED ON THE DRAWINGS ARE CONSIDERED HERE TO BE STRUCTURAL MASONRY.
- COMPRESSIVE STRENGTH OF MASONRY UNITS:

TYPE II AND BE MADE WITH LIGHTWEIGHT AGGREGATE. SOLID CLAY UNITS_

CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90,

- 2,000 PSI ON NET AREA CONCRETE UNITS
- MORTAR TYPE S ASTM C 270, AGGREGATE FOR MORTAR SHALL COMPLY WITH ASTM C 144
- MORTAR FOR REINFORCED MASONRY TYPE S ASTM C270.
- GROUT FOR REINFORCED MASONRY: 9" TO 11" SLUMP, 3/8" MAXIMUM SIZE PEA GRAVEL. CONCRETE FOR GROUT SPACE 3"X4" AND GREATER. 5" SLUMP FINE GROUT ASTM C476 FOR GROUT SPACE 2"X4" TO 3"X4". COMPRESSIVE STRENGTH - 3000 PSI.
- PROVIDE CLEAN-OUT OPENINGS AT THE BOTTOM OF EACH GROUT LIFT. CLEAN-OUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO FILLED WITH GROUT.
- REINFORCING GRADE AND DETAILS AS FOR CONCRETE. TIE IN POSITION AND PLACE CONCRETE AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMII ARI Y
- PROVIDE STANDARD 9 GAGE TRUSS TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16" O.C. VERTICAL AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS.
- CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1-99 /
- REINFORCING STEEL SHALL COMPLY WITH ASTM A-615, GRADE 6 SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.

SOLID SAWN WOOD FRAMING

- UNLESS NOTED ALL WOOD BEAMS, GIRDERS, SILLS, HEADERS, & JOISTS ARE TO BE #2 SOUTHERN YELLOW PINE, KII NED DRIED.
- 2. ALL WOOD IN CONTACT W/ CONCRETE OR MASONRY, TO BE .40 WOLVANIZED, OR SEPERATED BY METAL FLASHING.
- 3. ALL WOOD POSTS TO BE .60 WOLVANIZED.
- 4. ALL WOOD EXPOSED TO THE EXTERIOR EXCEPT TRIM TO BE .40 WOLVANIZED.
- ALL WOOD DECKING TO BE .40 WOLVANIZED REDRIED SYP UNLESS NOTED OTHERWISE.
- EXTERIOR LOADBEARING WALLS FRAMED FROM 2x4 WOOD STUDS SYP #2 @ 16" O.C. MIN. WITH 1/2" WOOD SHEATHING EXTERIOR CONTINUOUS FROM SOLE PLATE AT TOP OF FND. WALL TO RAFTER BEARING PLATE ABOVE.
- INTERIOR LOADBEARING WALLS FRAMED FROM 2x4 WOOD STUDS SPF #2 "or" SYP #2 @ 16" O.C. MIN.
- 6. WHERE PLATES ARE FILLET WELDED OT MEMBERS AND NO WELD 8. ALL OTHER NON-LOADBEARING INTERIOR WALLS TO BE TO HAVE 2x BLOCKING AT MID-SPAN OF WALL HEIGHT.
 - 10. ALL ROOF SHEATHING TO BE 1/2" WOOD ROOF SHEATHING
 - 12. NOTCHING OR DRILLING OF ALL FRAMING TO COMPLY W/ THE
 - CURRENT EDITION OF N.C. RESIDENTIAL BUILDING CODE
 - 13. ALL EXTERIOR FASTENERS TO BE GALVANIZED OR STAINLESS

 - 14. ROOF FRAMING (REPETITIVE MEMBERS) TO BE 2x8 RAFTERS @ 16" O.C. SYP #2, WITH 2x10 RIDGES, HIPS, AND VALLEYS UNLESS OTHERWISE NOTED ON PLANS.
 - 16. ALL HEADERS SPANNING 6'-0" OR LESS TO BE MIN. 2-2x10's #2
 - SYP, w/ 1/2" PLYWOOD CENTER, UNLESS NOTED OTHERWISE.
 - 17. ALL ROOF RAFTERS, HIPS, AND VALLEY MEMBERS TO BE ATTACHED TO DOUBLE 2x WOOD BEARING PLATES WITH SIMPSON METAL TIES, INSTALLED PER MANUF. SPEC's. OR

OTHER MANUFACTURES EQUAL, UNLESS NOTED OTHERWISE

- 18. ALL METAL CONNECTORS TO BE "SIMPSON STRONG-TIE" BRAND OR OTHER MANUFACTURES EQUAL AND MUST BE INSTALLED PER MANUFACTURES SPECIFICATIONS.
- 19. ALL METAL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD TO HAVE MANUFACTURES FACTORY APPLIED ADDITIONAL CORROSION PROTECTION FROM PRESSURE TREATED WOOD PRESERVATIVES, SEE MANUF. SPEC's. FOR MORE INFORMATION.
- 20. MIN. 2 BEARING STUDS ARE TO BE USED UNDER EACH END OF ALL BEAMS AND HEADERS UNLESS NOTED WITH THIS SYMBOL: □X IF BEARING LOCATION IS NOTED WITH THIS SYMBOL, IT INDICATES THE NUMBER OF BEARING STUDS TO BE USED. (MIN. #2 SPF UNLESS NOTED OTHERWISE)

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Oct 25, 2020, 6:22pm

FOUNDATION DETAILS

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



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Revisions:

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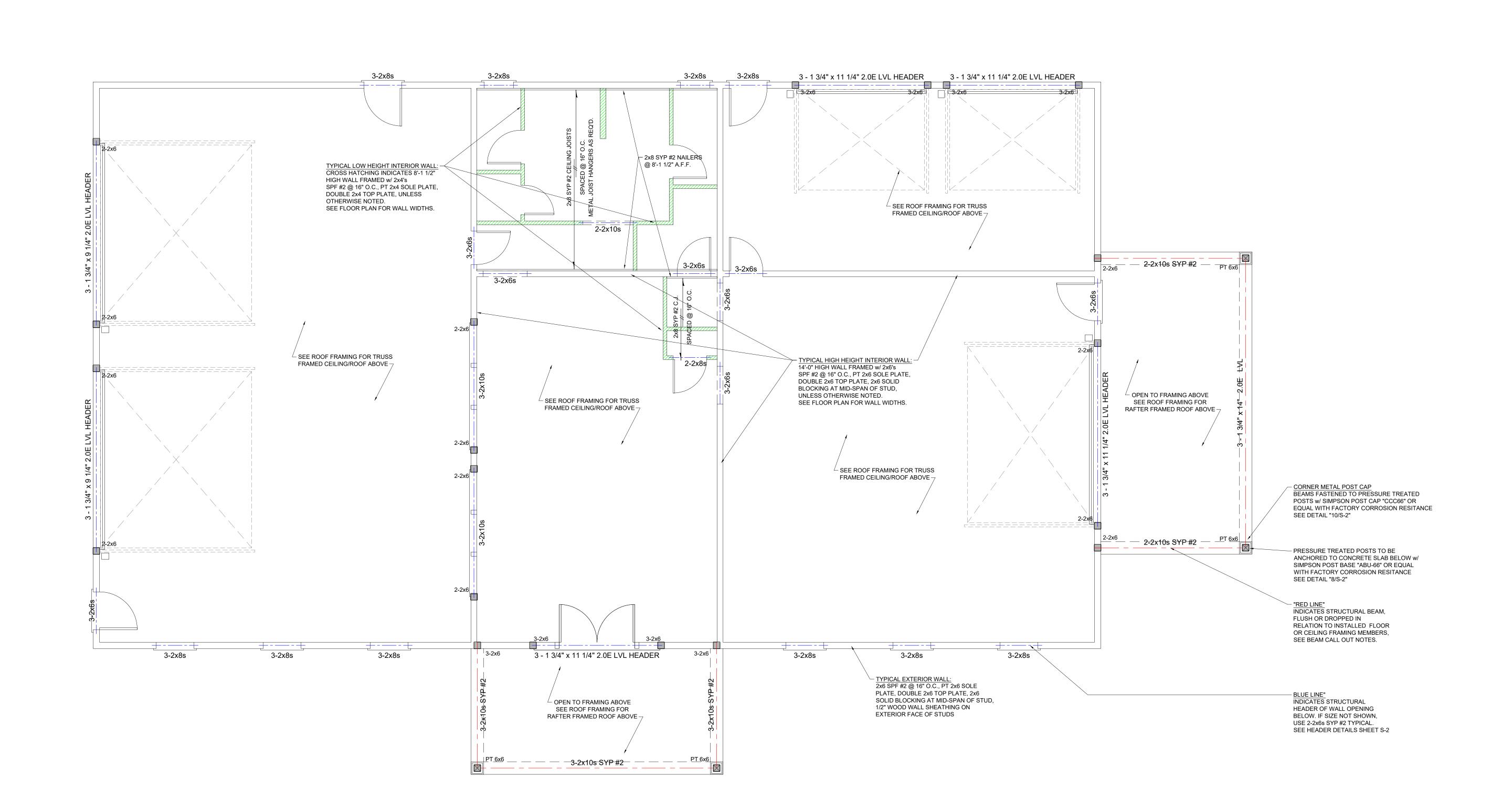
S-3

Sheet No

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

Oct 25, 2020, 6:22pm

WALL
FRAMING PLAN
Sheet title:



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



Mac Morgan 4747 NC Hwy. 42 W' Macclesfield, Nr M 252.81? ~ mmore~

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Donald

Oct 25, 2020, 6:23pm

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

ROOF FRAMING PLAN

