

ROOF PLAN

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

These plans comply with 2020 Florida Building Code, 120 mph wind speed (3 sec. gust)

John K. Gentry, P.E.#16990  
P.O. Box 1034  
Perry, FL 32348  
(850) 672-0145

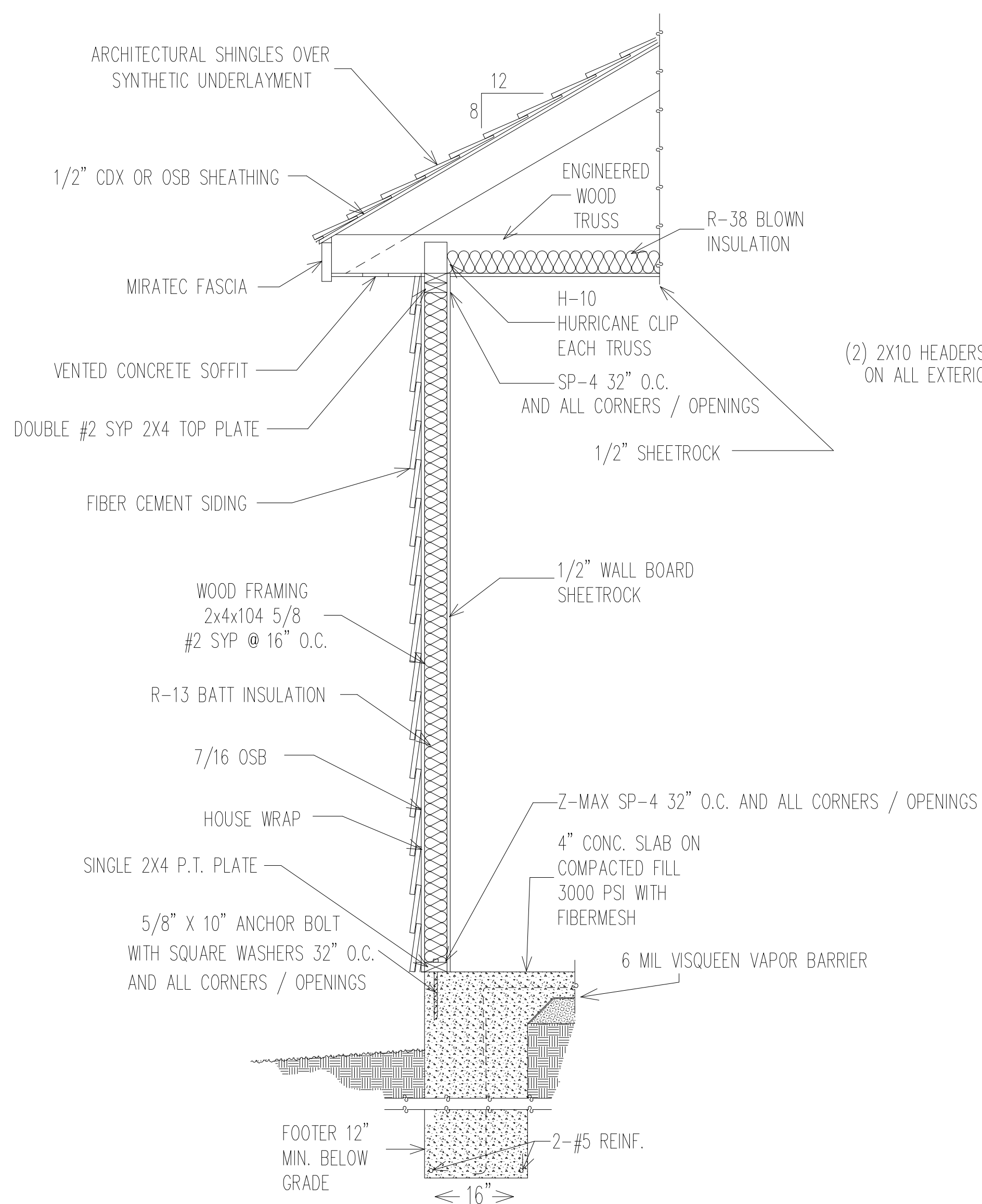
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SQUARE FOOTAGE	1999 S.F.	882 S.F.	149 S.F.	3030 S.F.
HEATED				
GARAGE				
PORCH				
TOTAL				

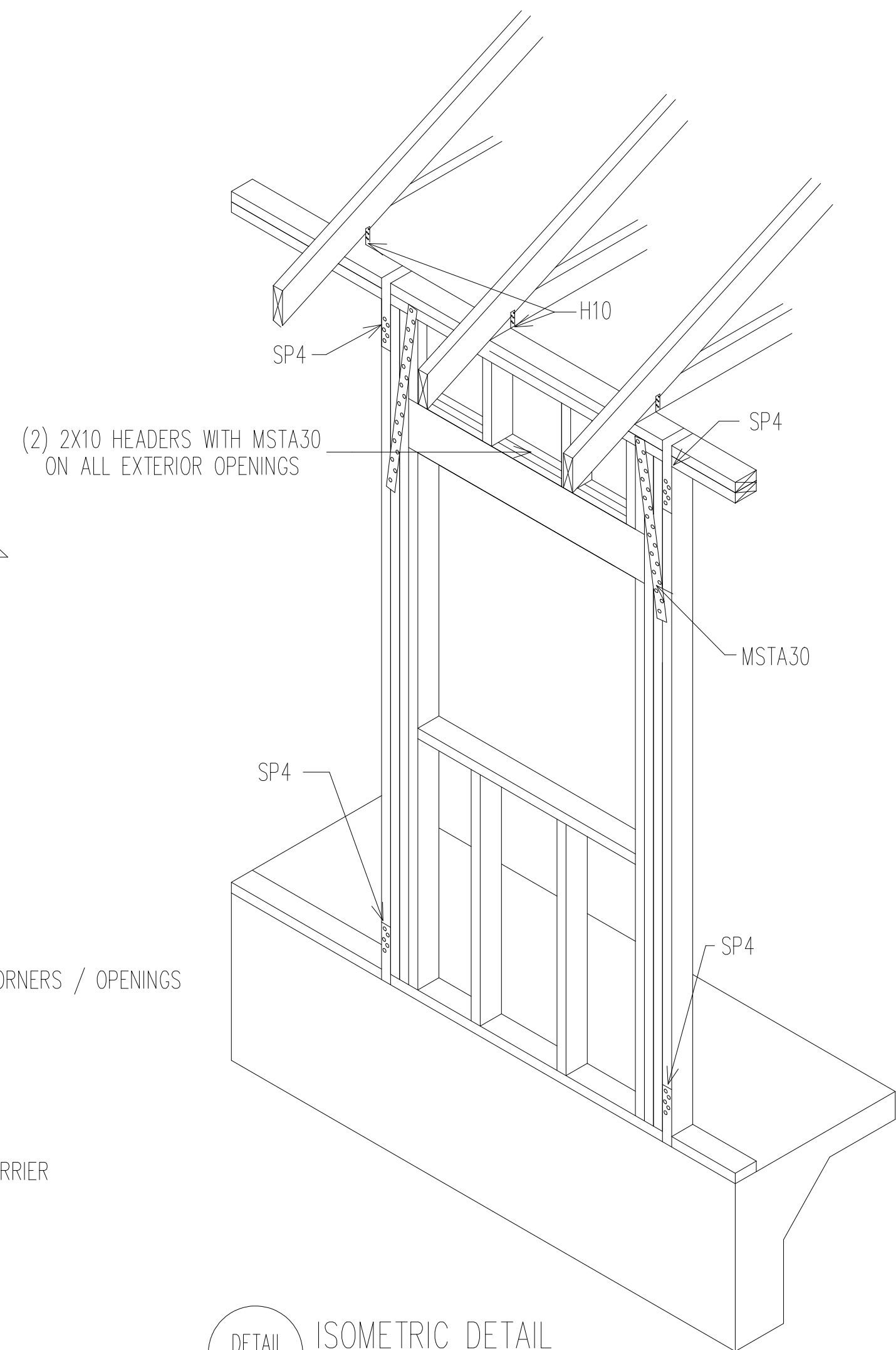
Chandra Miller	Lake City, Florida
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CHRISMILL HOMES
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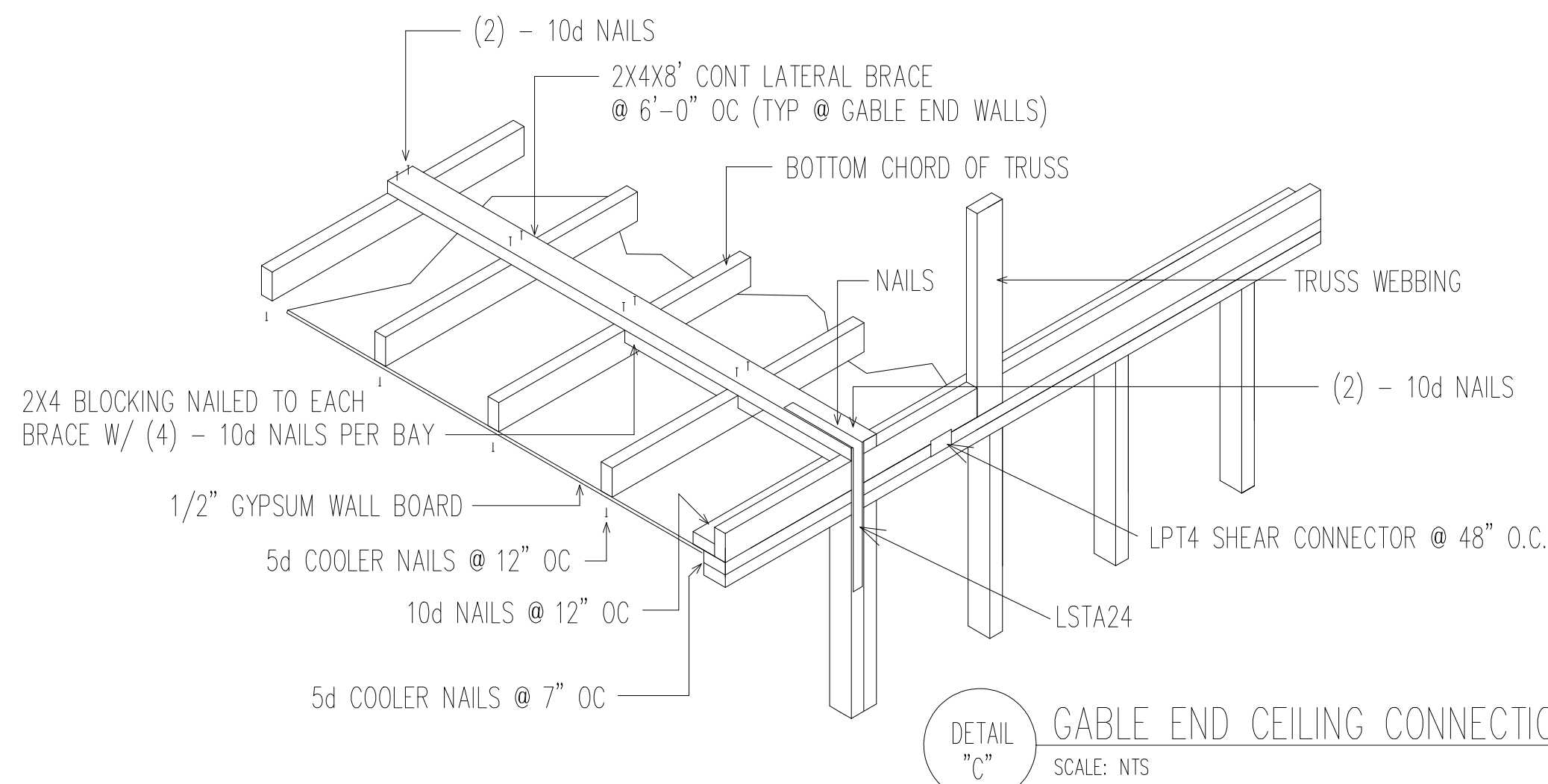
Current Plans as of 5/2/22



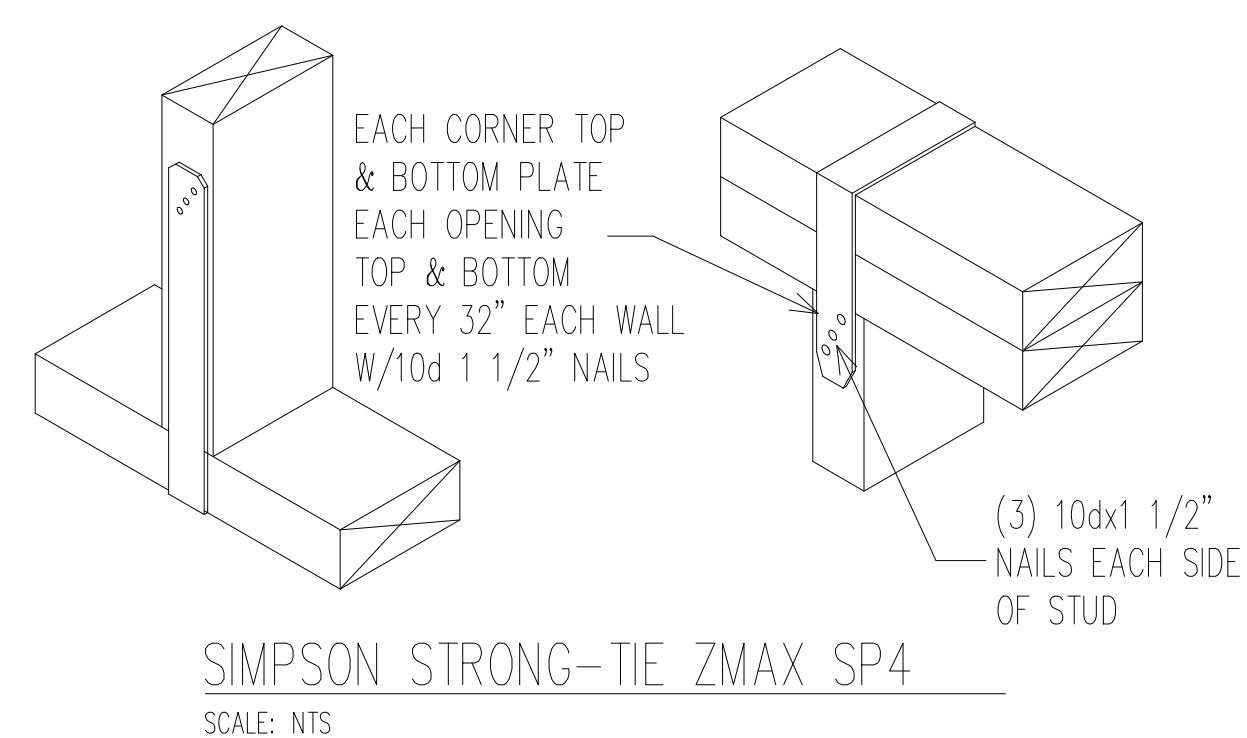
DETAIL "B" WALL SECTION FOR 120 WINDLOAD



DETAIL "D" ISOMETRIC DETAIL SCALE: NTS



DETAIL "C" GABLE END CEILING CONNECTION DETAIL SCALE: NTS



GENERAL NOTES:

- DESIGN LOAD
1. LIVE LOAD = 40 PSF
  2. DEAD LOAD = 10 PSF
  3. WIND LOADS  
BASIC WIND SPEED 120 MPH (3 SEC. GUST)  
IMPORTANCE (I) = 1.0  
WIND EXPOSURE = "B"  
INTERNAL PRESSURE = 5 +/- PSF  
ROOF COMPONENTS AND CLADDING = 50 +/- PSF  
WALL COMPONENTS AND CLADDING = -27 +/- PSF

SPECIFICATIONS

DESIGN MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING STANDARDS, UNLESS OTHERWISE MODIFIED ON THE DRAWINGS:

ASCE 7 MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES.  
ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.  
AC315 MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES.  
ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.  
CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING STEEL.  
ACI 530/ASCE 5/TMS 402 BUILDING CODE FOR MASONRY STRUCTURES.  
2020 FLORIDA BUILDING CODE

BUILDING MATERIAL

1. ROOF  
A.) ROOF SHEATHING SHALL BE 1/2" APA RATED SHEATHING W 8d NAILS SPACED 4" MAXIMUM AT SUPPORTED EDGES. SPACE NAILS MAXIMUM 6" ALONG INTERMEDIATE FRAMING MEMBERS. FASTENERS SHALL BE LOCATED 3/8" FROM PANEL EDGES. MINIMUM NAIL PENETRATION SHALL BE 1-3/8" TYPICAL.  
B.) NAIL SPACING SHALL BE 4" O.C. WITH 8d RING SHANK NAILS ALONG ROOFING MEMBER OVER GABLE END TRUSS.  
C.) PER APA, STRUCTURAL DIAPHRAGM CAPACITY = 240 PSF (NOT INCLUDING 40% INCREASE PER FBC 2323.2.4)
2. TRUSSES  
A.) TRUSSES SHALL BE PRE-ENGINEERED ACCORDING TO DESIGN LOAD.  
B.) TRUSSES SHALL BE BRACED PER TRUSS PLATE INSTITUTE (TP)HB-91

3. INTERIOR FINISHES  
A.) ALL GYPSUM BOARD SHALL HAVE A MINIMUM THICKNESS OF 1/2".
4. EXTERIOR WALLS  
A.) WALL SHEATHING SHALL BE 7/16" APA RATED SHEATHING W 8d NAILS SPACED 6" MAXIMUM AT SUPPORTED EDGES. SPACE NAILS MAXIMUM 6" ALONG INTERMEDIATE FRAMING MEMBERS. FASTENERS SHALL BE LOCATED 3/8" FROM PANEL EDGES. MINIMUM NAIL PENETRATION SHALL BE 1-3/8" TYPICAL.
5. CONCRETE FOOTING AND SLABS  
A.) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSF IN 28 DAYS.  
B.) REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 40.  
C.) PROVIDE A MINIMUM COVER OF 3" FOR REINFORCING STEEL WHEN CONCRETE IS PLACED DIRECTLY AGAINST THE GROUND. CONCRETE EXPOSED TO EARTH OR WEATHER SHALL HAVE A MINIMUM COVER OF 1/2"
- D.) FIBERMESH TO BE USED IN CONCRETE IN LIEU OF WELDED WIRE MESH.  
E.) A VAPOR RETARDER CONSISTING OF 6 MIL MINIMUM POLYETHYLENE WITH JOINTS LAPPED 6" AND SEALED WITH 2" APPROVED TAPE OR MASTIC, OR OTHER APPROVED MATERIALS HAVING A MAXIMUM PERM RATING OF 0.5.  
F.) ANCHOR BOLTS SHALL BE SPACED A MAX OF 4' LOCATED NOT MORE THAN 12" FROM CORNERS
6. SOIL PREPARATION AND PROPERTIES  
A.) AREA UNDER FOOTINGS, FOUNDATIONS, AND CONCRETE SLABS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATTERS REMOVED PRIOR TO THEIR CONSTRUCTION.  
B.) FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL.  
C.) ALLOWABLE BEARING PRESSURE = 1500 PSF.

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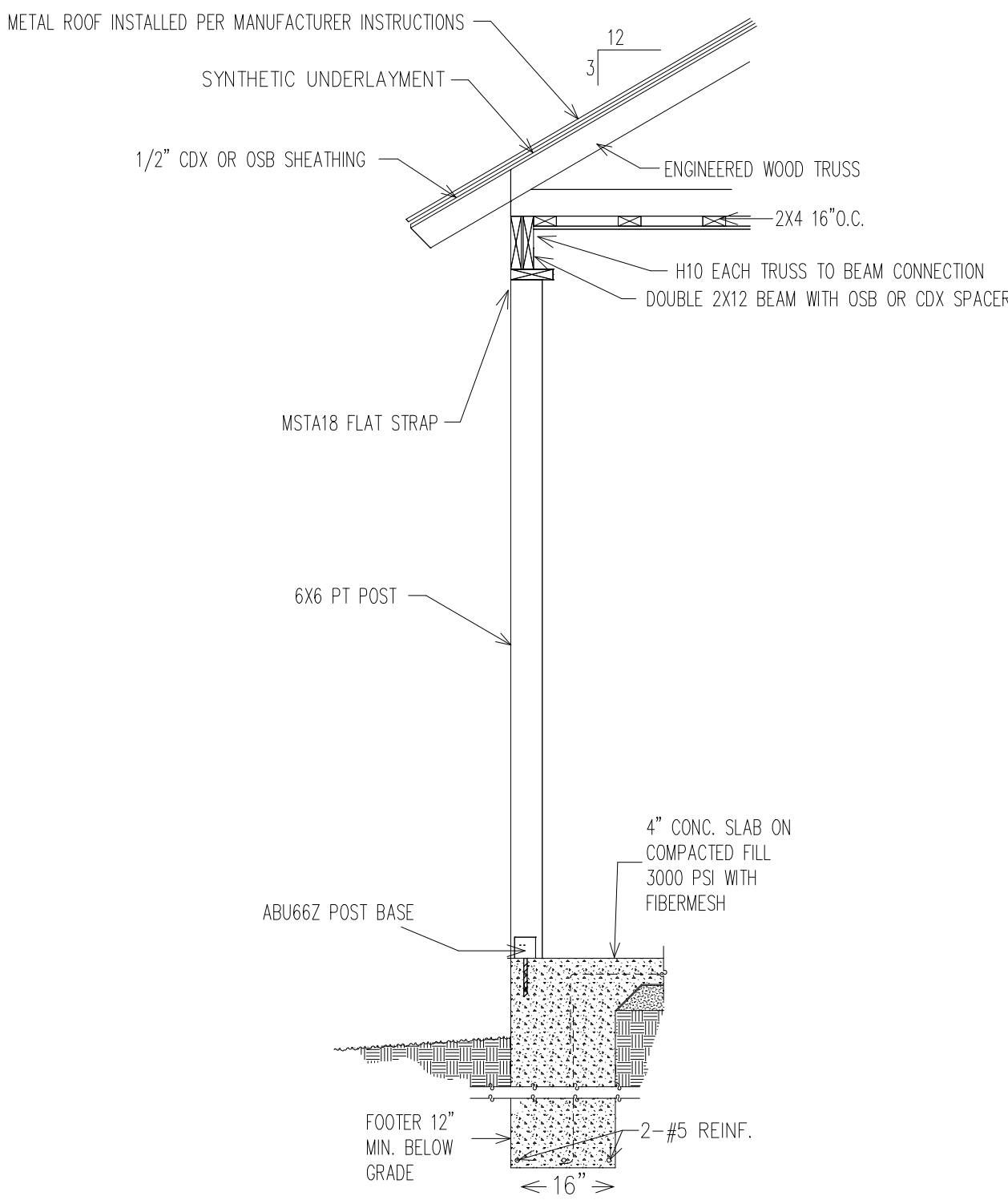
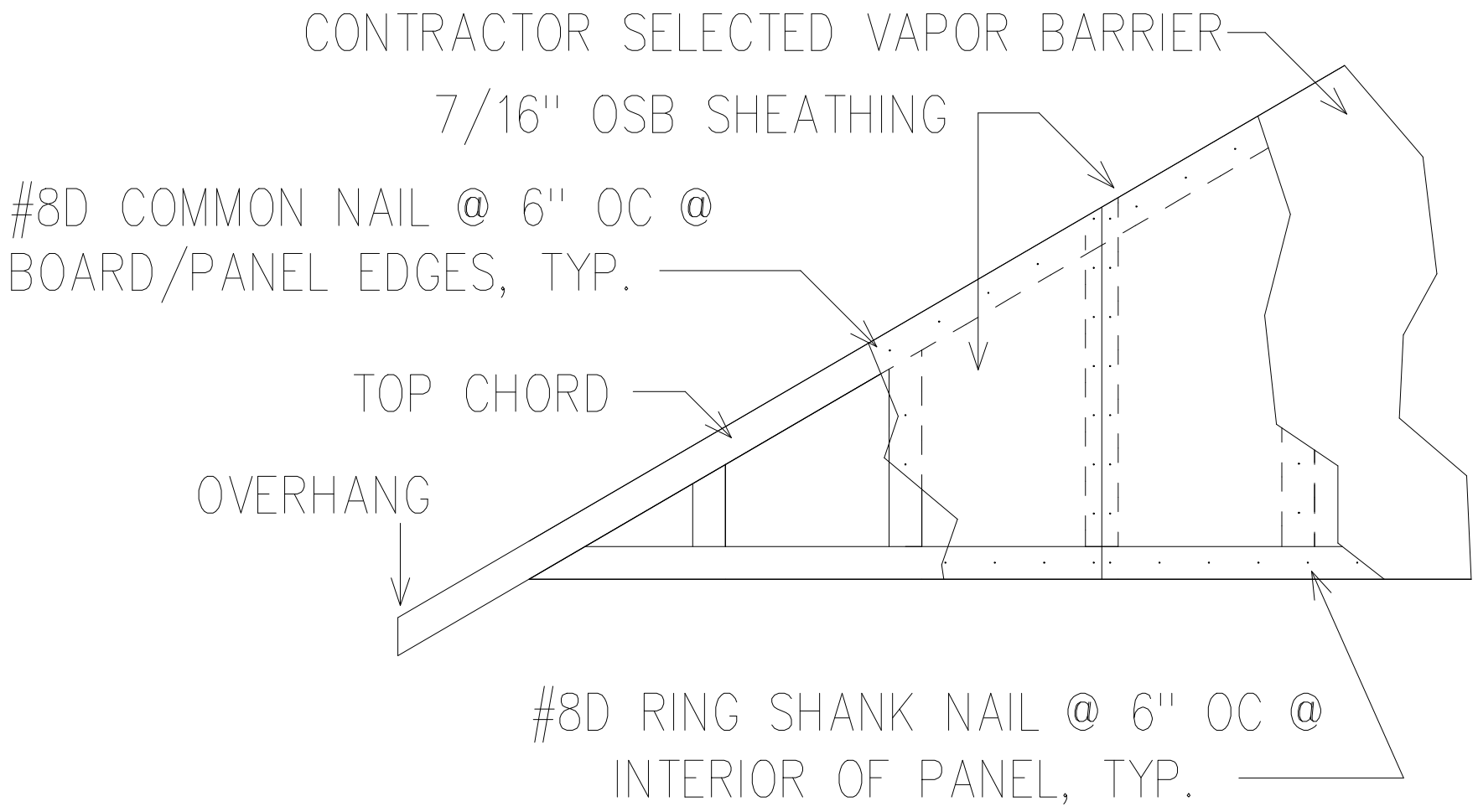
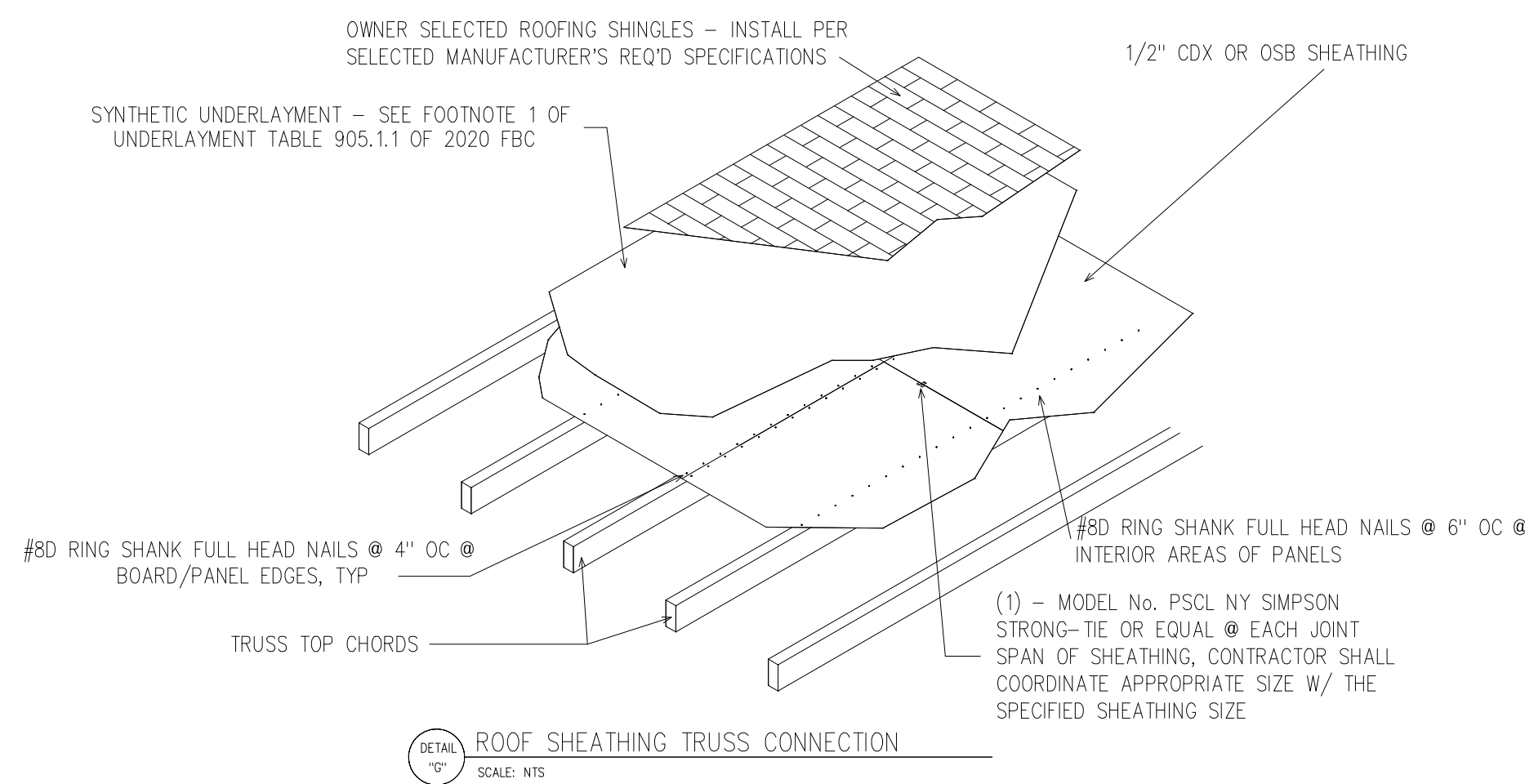
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HEATED GARAGE	882 S.F.		
PORCH	149 S.F.		
TOTAL	3030 S.F.		

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Lake City, Florida	

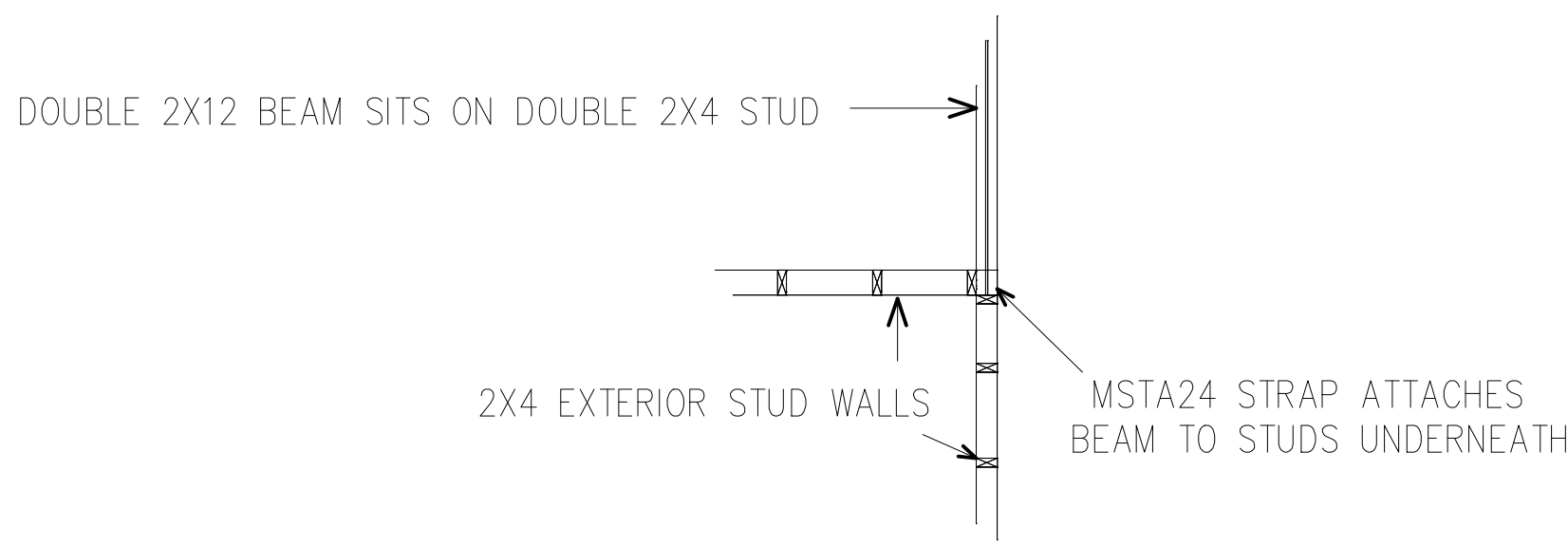
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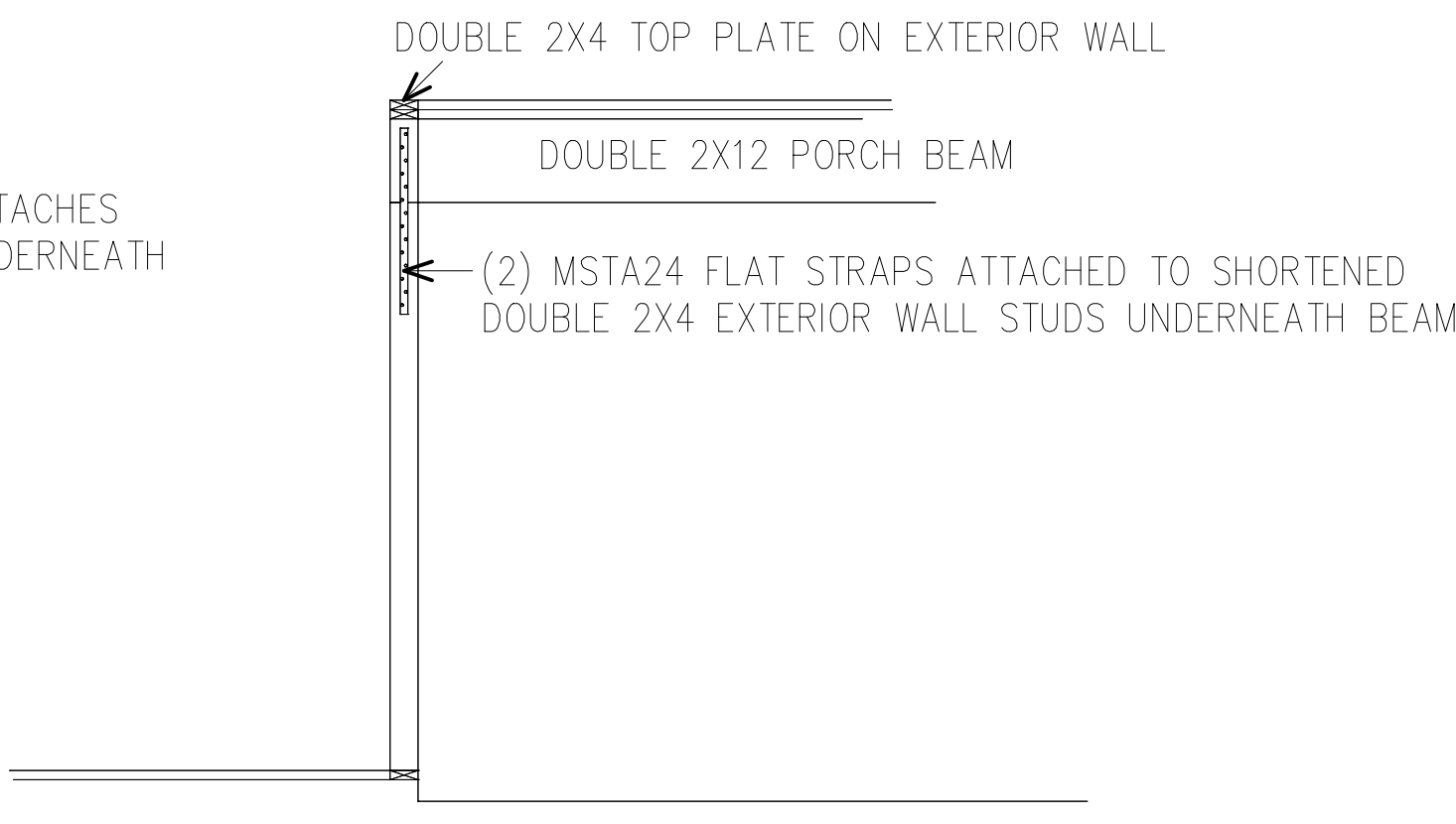
Current Plans as of 5/2/22



TOP VIEW OF PORCH BEAM CORNER CONNECTION

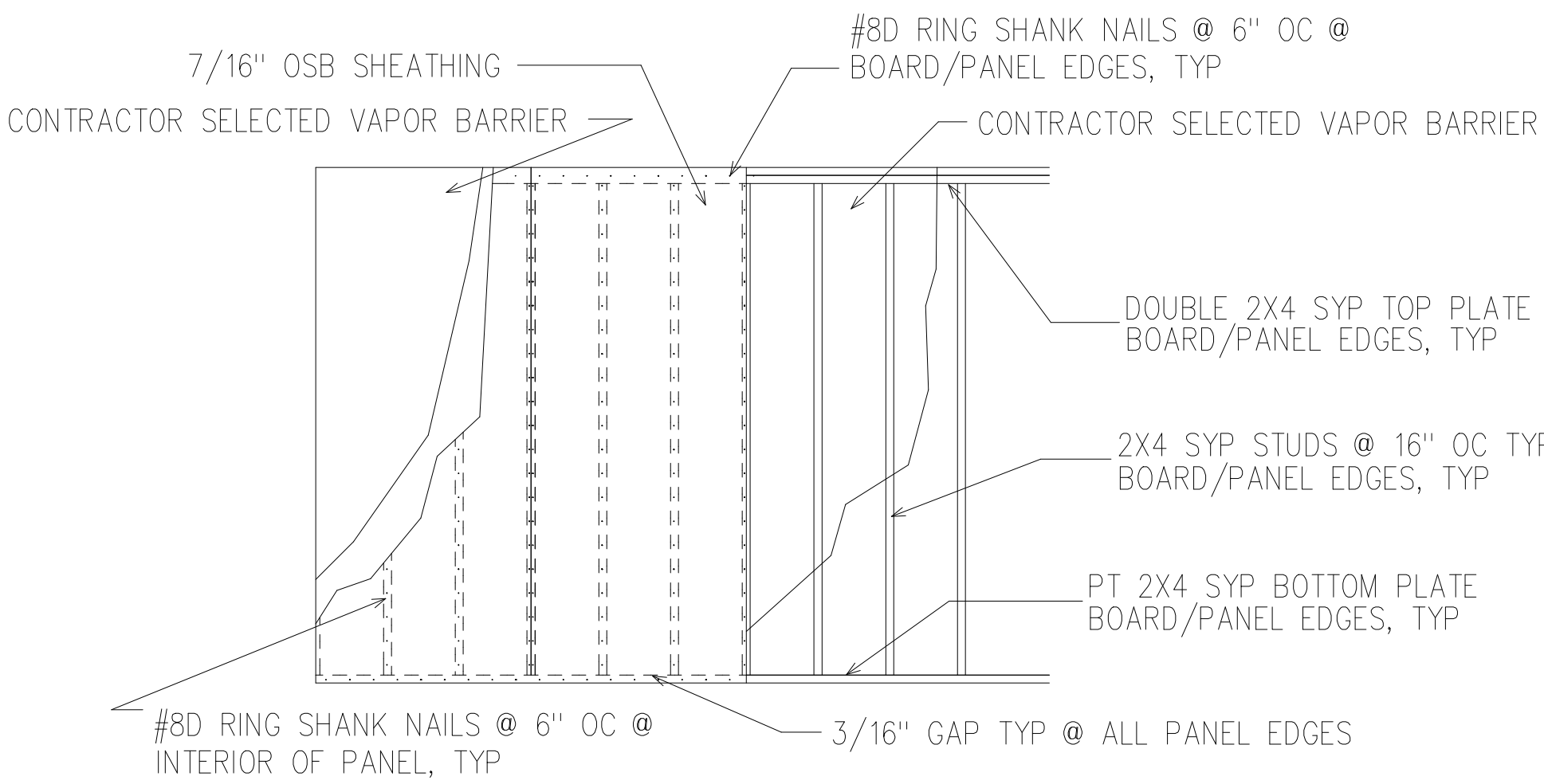


SIDE VIEW OF PORCH BEAM CONNECTION



DETAIL "H" SCALE: NTS

PORCH BEAM CONNECTION IN EXTERIOR WALL DETAIL



NOTE: SHEARWALL SHEATHING NAILING PATTERN IS 4" O.C. EDGES, 6" O.C. FIELD

DETAIL "F" SCALE: NTS

TYPICAL WALL SHEATHING ATTACHMENT

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SQUARE FOOTAGE

HEATED 1999 S.F.

GARAGE 882 S.F.

PORCH 149 S.F.

TOTAL 3030 S.F.

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Lake City, Florida

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HOMES