



1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING AROUND ALL FOUR EDGES WITH JOISTS FOR ADJACENT PANELS OCCURRING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.
5. TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. THE MAXIMUM HEIGHT OF OPENINGS SHALL BE 50% OF THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 ie. FOR 8'-0" WALLS - (2'-3").

NOTE:
A SOLID MEMBER OF EQUAL OR
GREATER SIZE THAN MULTIPLE
MEMBERS MAY BE USED.
IF RATED SHEATHING IS APPLIED
TO NARROW EDGES, NAILED TO
EACH STUD AT 12" O.C. MAXIMUM,
THE LAMINATION NAILING SHOWN
HERE IS NOT REQUIRED.



SCALE: 1/2" = 1'-0"

notch beam 3" to fit under double top plate

simpson LTS12

stud bearing wall

1/2" ATR 6" - 12" from porch beam

double 2x beam

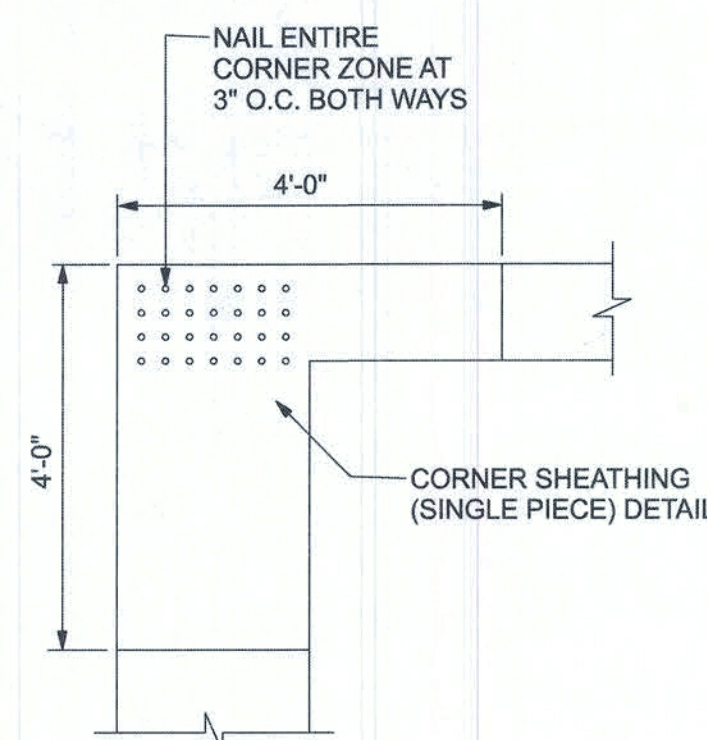
double 2x or solid 4x post

6" - 12"

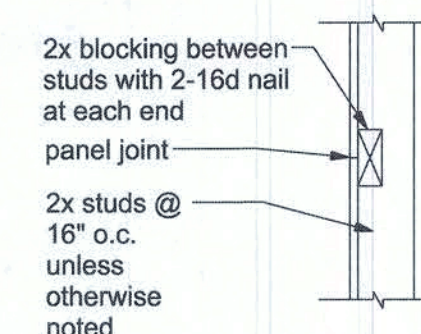
BEAM/WALL CONNECTION

NTS

BEAM/WALL CONNECTION



SCALE: 1/2" = 1'-0"



SCALE: 3/4" = 1'-0"



mark description

● all thread rod location



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

LOT 52, MAYFAIR SUBDIVISION

SHEARWALL DETAILS

P.O. BOX 860125
ST. AUGUSTINE, FL. 32086
(904) 429-7536
C.O.A. # 00008701



COASTAL
ENGINEERING
AND TESTING, INC.

DATE 1/26/18	DRAWN BY W.H.F.
	APPROVED W.H.F.

REVISIONS

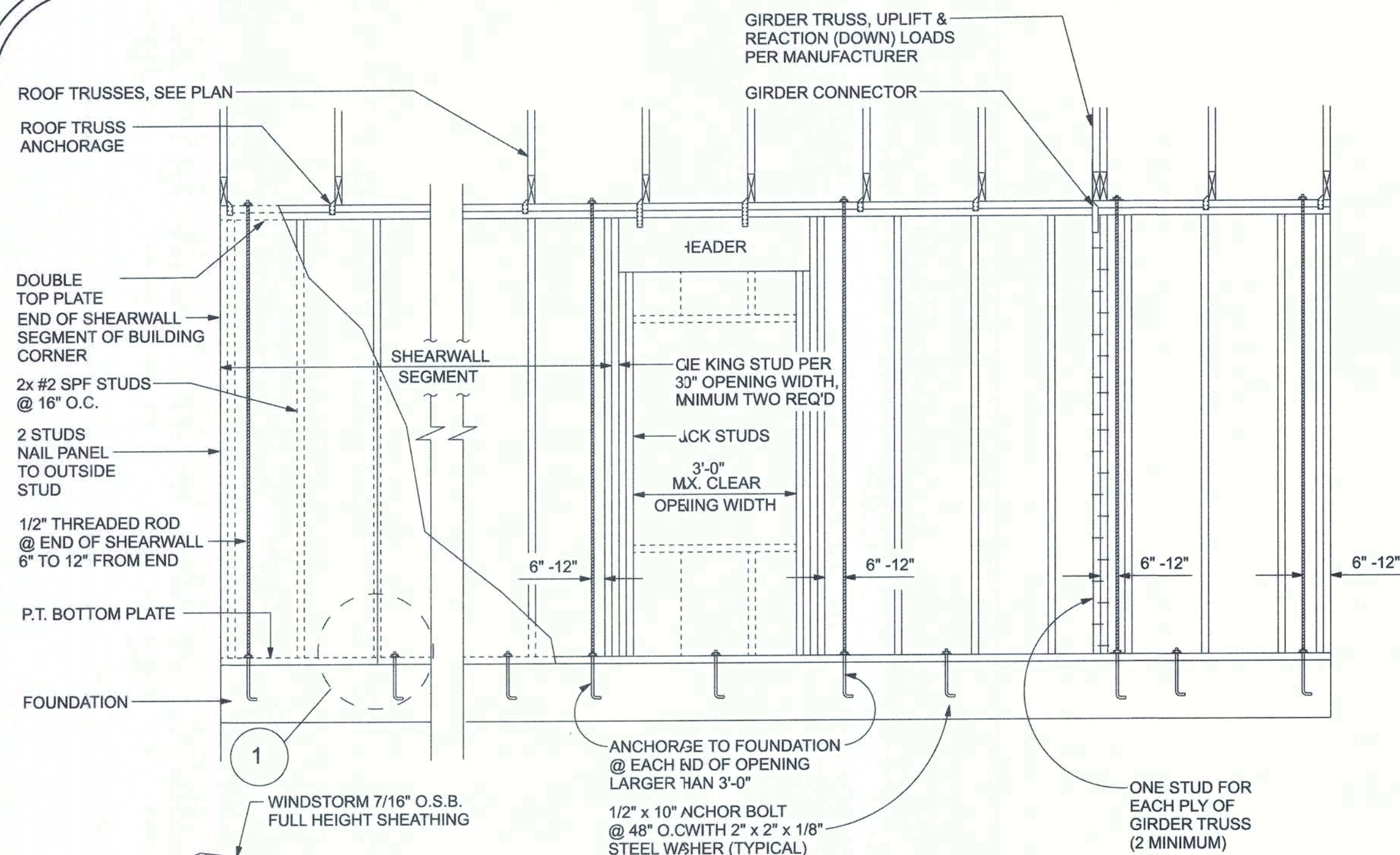
NO.	DATE	REVISION
1	3/1/20	changed from side entry to front entry

SHEET A-8

OF 9

PROJECT NO.
19.R027

permit #
39110



SHEARWALL DETAILS
SCALE: 1/2" = 1'-0"

1 DOUBLE NAIL EDGE SPACING
TOP AND BOTTOM PLATE
UPLIFT CAPACITY = 474 plf
(TABLE 305S1 SST10-99)

- RULES:**
1. One all-thread rod at each corner.
 2. One all-thread rod at each end of shearwalls.
 3. One all-thread rod at each end of opening headers greater than 3'-0".
 4. Check sub-sheathing to top plate connection for horizontal transfer capability.
 5. If necessary, add all-thread rods to girders individually to exclude the from average uplift plf.
 6. Check sole plate to slab connection, additional anchors may be required for lateral and shear load transfer.

ALLOWABLE VALUES	
Connection Type	Allowable Value
Foundation / S.Y.P. Top Plate	3840 lbs.
Foundation / Spruce-Pine-Fir Top Plate	3840 lbs.
Lintel or Bond Beam / S.Y.P. Top Plate	3840 lbs.
Lintel or Bond Beam / Spruce-Pine-Fir Top Plate	3840 lbs.

Placement at slab level:

Corners
When presetting the all-thread rod at a building corner, the rod should be placed 8 to 12 inches away from the corner so it does not set under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

Header ends
When presetting the all-thread rod at a header end, the rod should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members.

Top Connections
Top connections made at corners and header ends shall be made within 2 inches of the framing pack. A nut and 3X3 washer shall be applied to the top plates and tightened securely.

Intermediate Coupler Connections
When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end, then threading the coupler back over the rod joint so each rod is halfway into the coupler.

Retro-fits
In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.

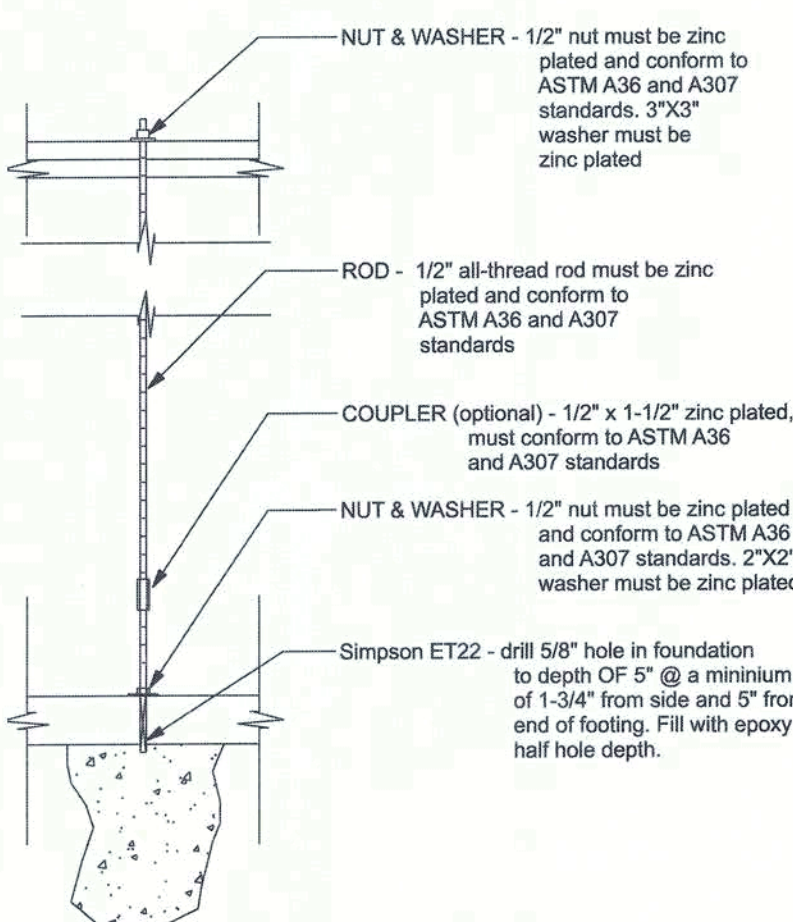
Sole plate to slab connection:
The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a sole plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.

System Tightening:
On multiple story applications, the all-thread rod system shall be rechecked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.

SHEARWALL NOTES:

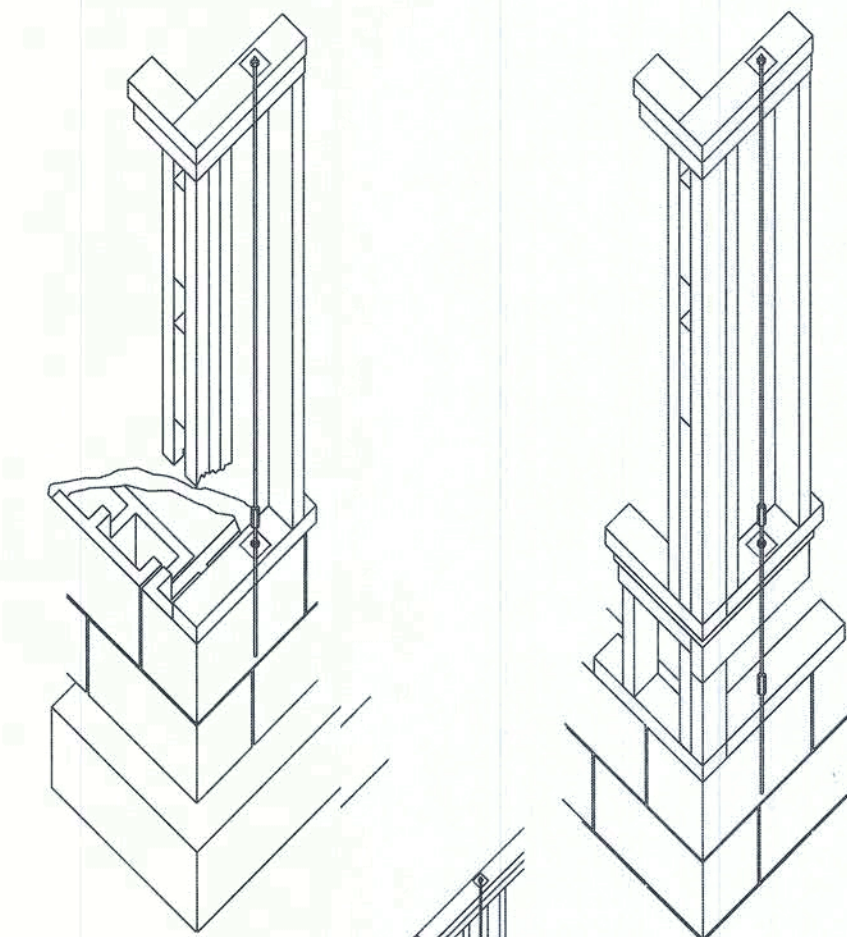
1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.
 2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
 3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURRING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
 4. NAIL SPACING SHALL BE 6" O.C. EDGES AND 12" O.C. IN THE FIELD.
- TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 ie. FOR 8'-0" WALLS - (2'-3").

OPENING WIDTH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-0"	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'-0"	(5) 2x4 OR (2) 2x6	3



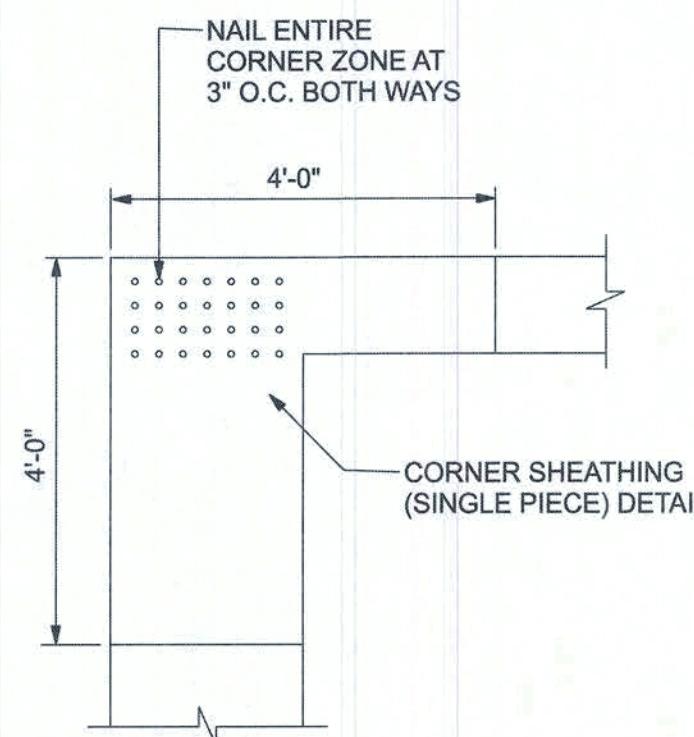
GIRDER COLUMN DETAIL
SCALE: 1/2" = 1'-0"

OPENING CONNECTION REQUIREMENTS				
CLEAR OPENING WIDTH	HEADER SIZE (unless noted otherwise) #2 GRADE OR BETTER	END BEARING	CONNECTOR AT EACH END OF OPENING	ANCHORAGE TO FOUNDATION @ EACH END OF OPENING
0' - 3'	(2) 2x8	1.5"	N/A	N/A
>3' - 6'	(2) 2x10	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>6' - 9'	(2) 2x12	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>9' - 12'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>12' - 15'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	3"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD
>15' - 18'	(2) 1 3/4" x 11 1/4" LVL - 2.0E	4.5"	1/2" ALL THREAD ROD	1/2" ALL THREAD ROD

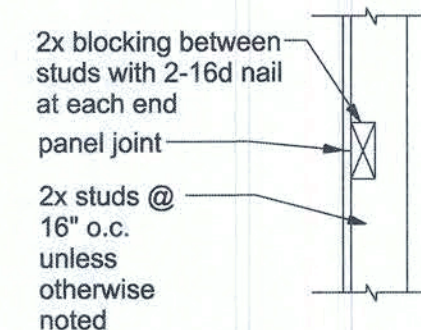


BEAM/WALL CONNECTION
NTS

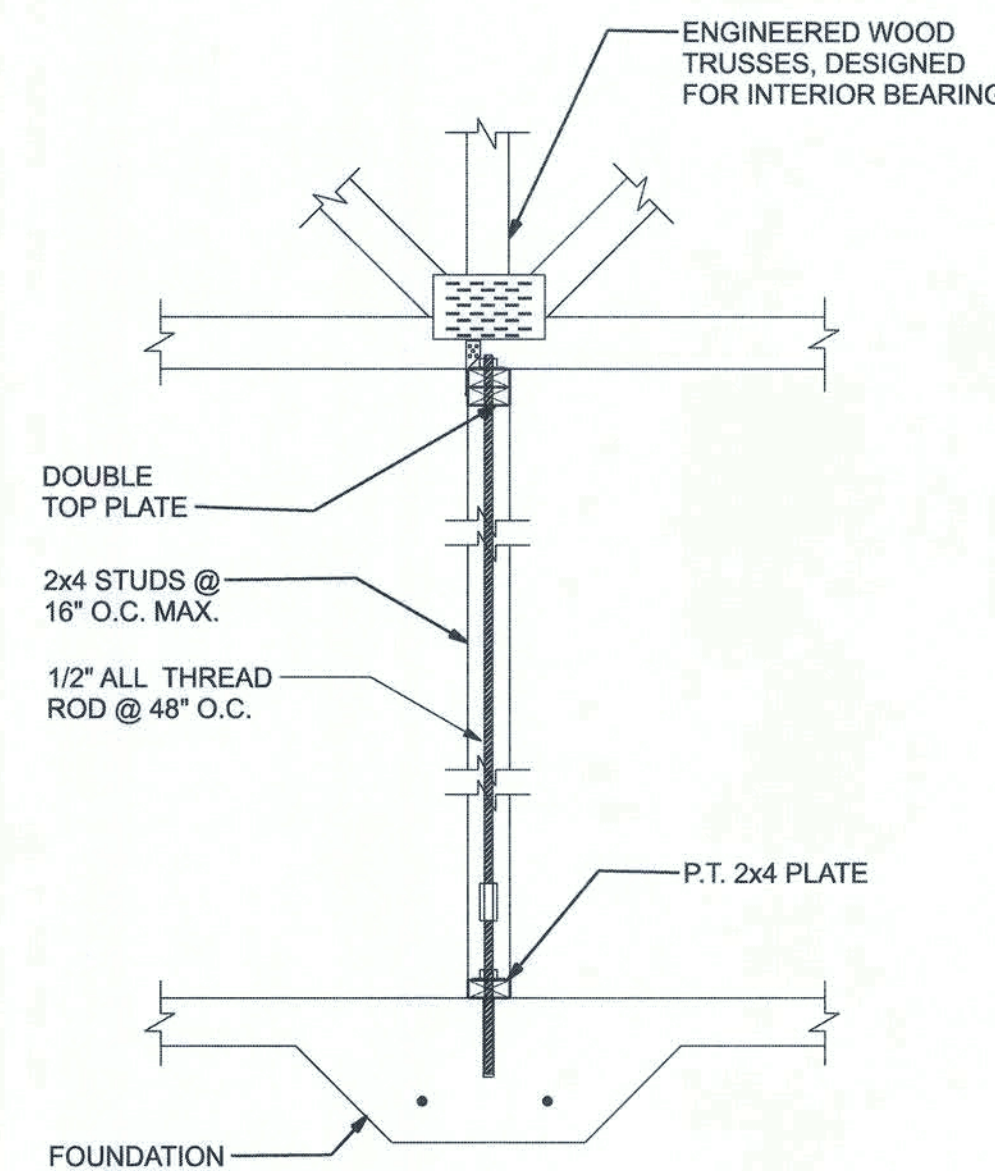
NOTE:
SHEATHING ON BOTH SIDES OF WALL DOUBLES THE EFFECTIVE SHEARWALL LENGTH



GARAGE ENDWALL DETAILS
SCALE: 1/2" = 1'-0"

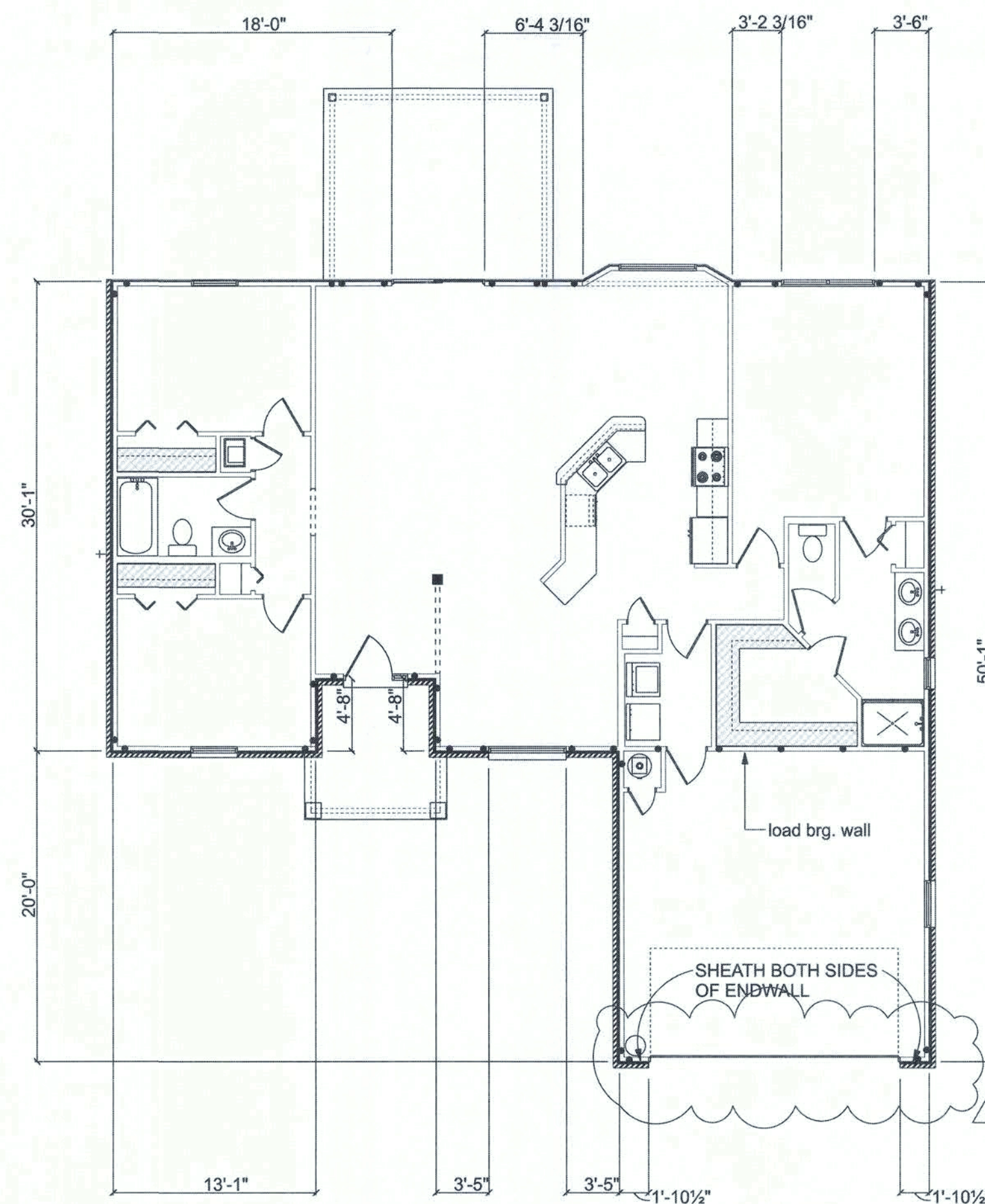


BLOCKING SECTION
SCALE: 3/4" = 1'-0"



INTERIOR BRG. WALL DETAIL

LEGEND
mark description
● all thread rod location



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



LOT 52, MAYFAIR SUBDIVISION

SHEARWALL DETAILS

P.O. BOX 860125
ST. AUGUSTINE, FL. 32086
(904) 429-7536
C.O.A.# 0008701



DATE
2/26/18
DRAWN BY
W.H.F.
APPROVED
W.H.F.

REVISIONS
3/1/20
changed from side entry to front entry

SHEET
A-8
9

PROJECT NO.
19.R027

Permit #
39110