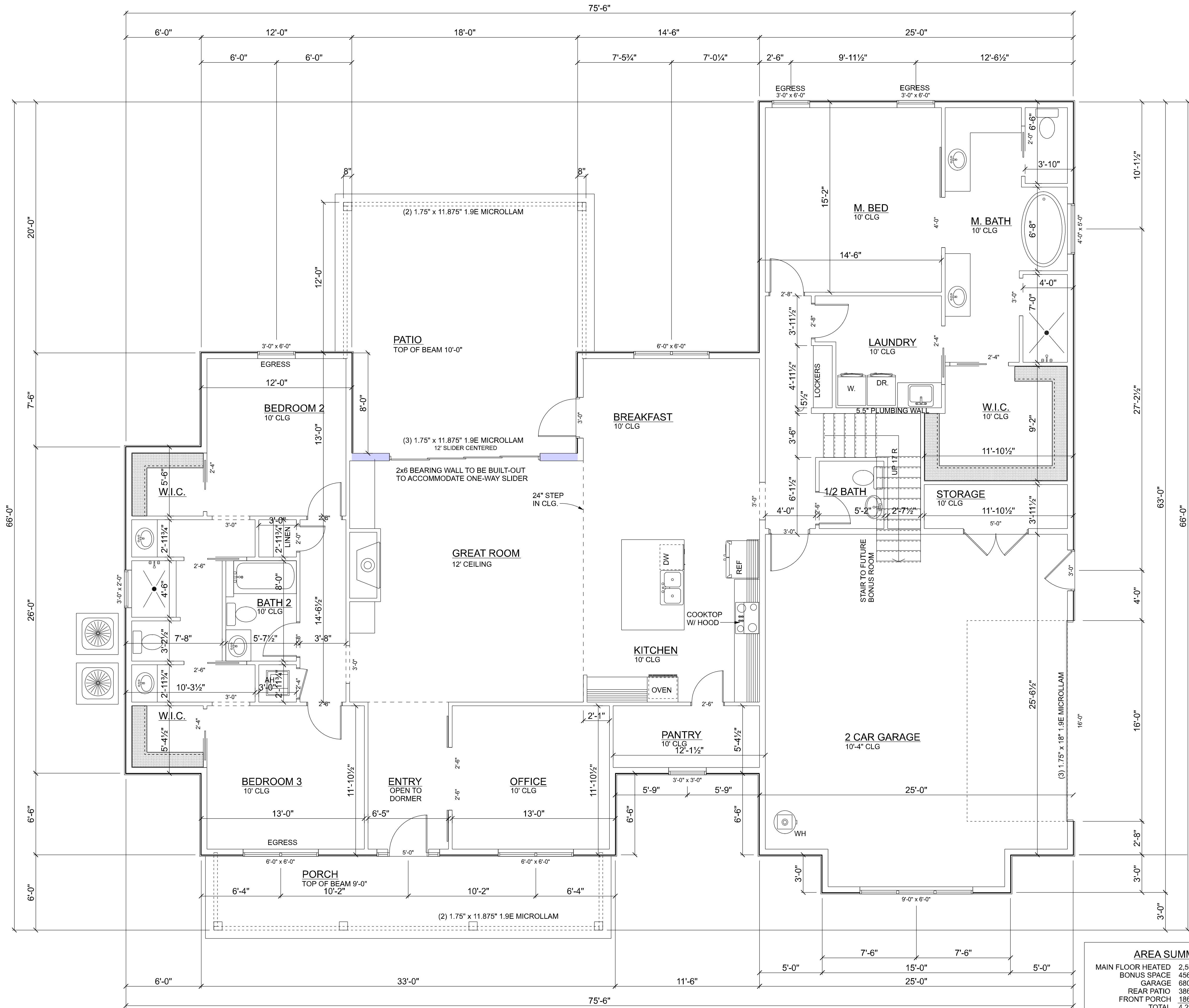
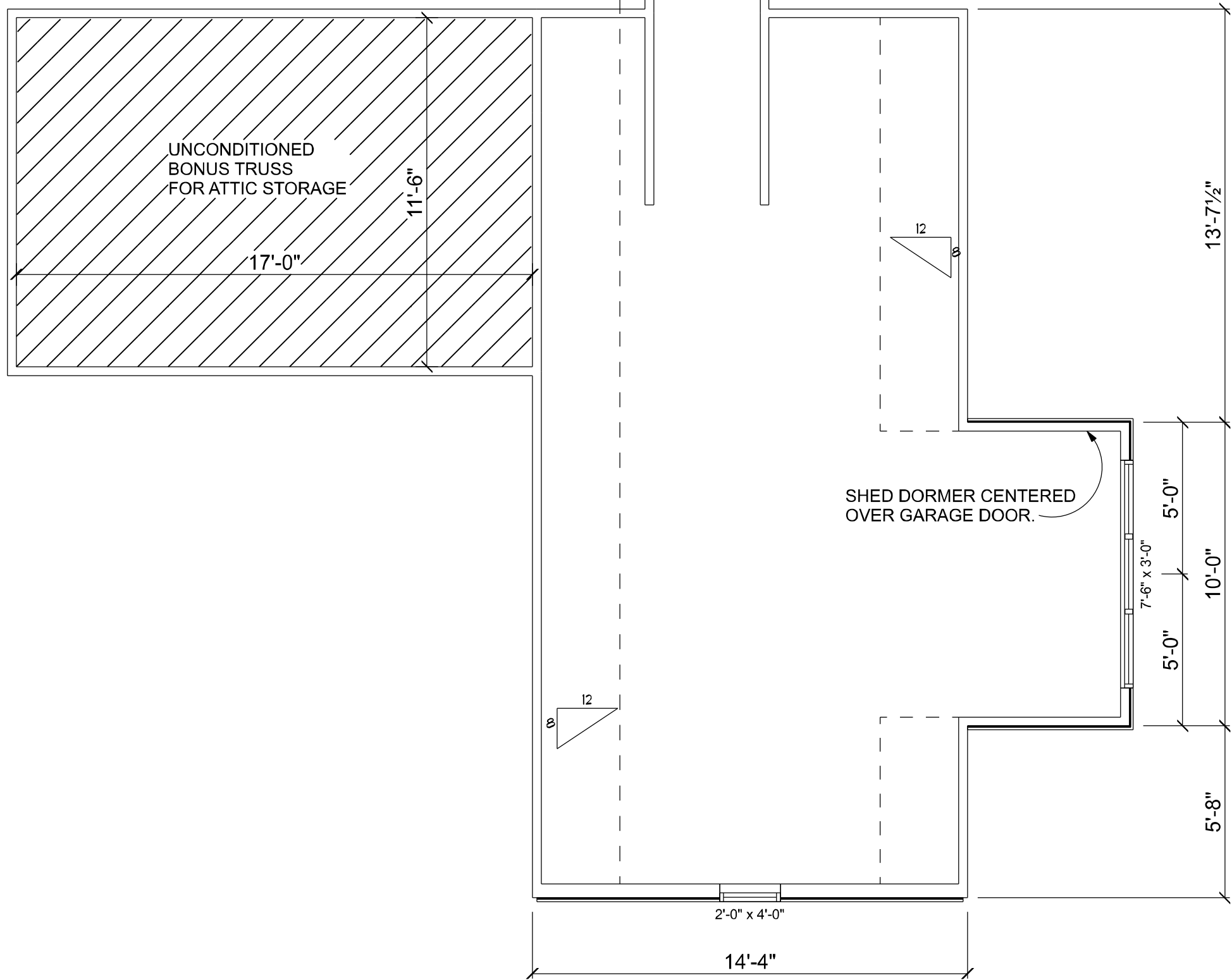








FLOOR PLAN  
SCALE: 1/4" = 1'-0"



OPTIONAL BONUS  
ROOM LAYOUT  
SCALE: 1/4" = 1'-0"

| AREA SUMMARY      |          |
|-------------------|----------|
| MAIN FLOOR HEATED | 2,590 SF |
| BONUS SPACE       | 456 SF   |
| GARAGE            | 680 SF   |
| REAR PATIO        | 386 SF   |
| FRONT PORCH       | 186 SF   |
| TOTAL             | 4,298 SF |

| REVISIONS |    |             |
|-----------|----|-------------|
| DATE      | BY | DESCRIPTION |
|           |    |             |

DESIGN BY:

**TRADEMARK**  
Construction Group, Inc.

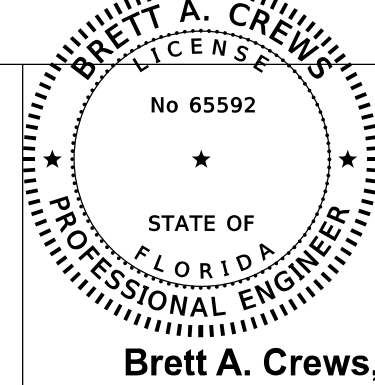
CERTIFIED GENERAL CONTRACTOR  
CGC1514780

163 SW MIDTOWN PL.  
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(386)755-5254

**CES**  
Crews Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION  
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Brett A. Crews, P.E. 65592

DRAWN BY:

TM

APPROVED BY:

BC

**LAY RESIDENCE**

FLOOR PLAN

PROJECT NO.:

R22.013

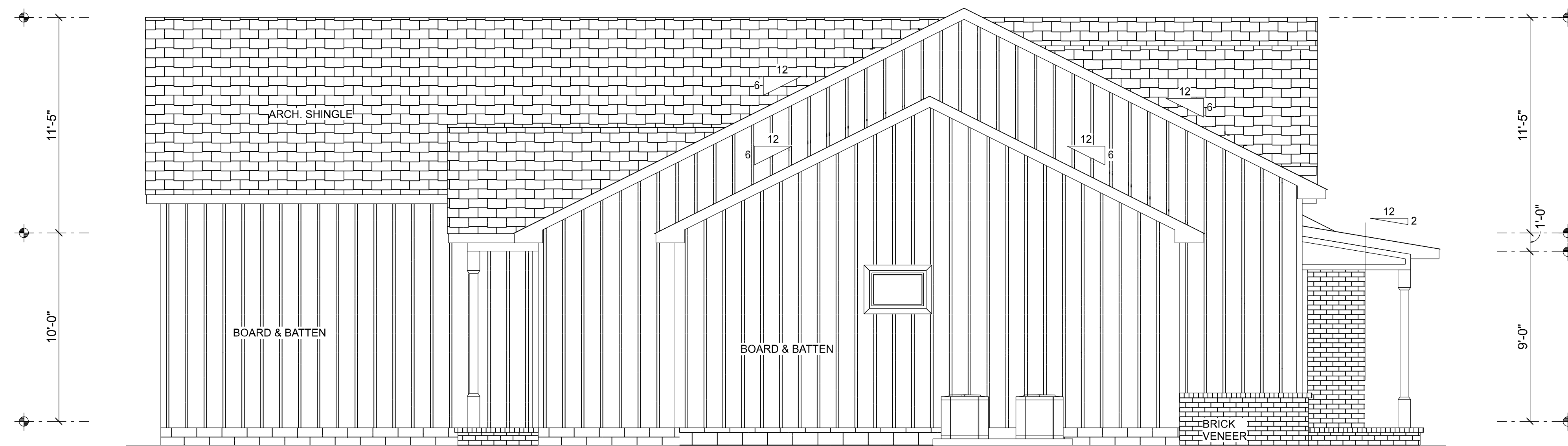
SHEET:

A-2

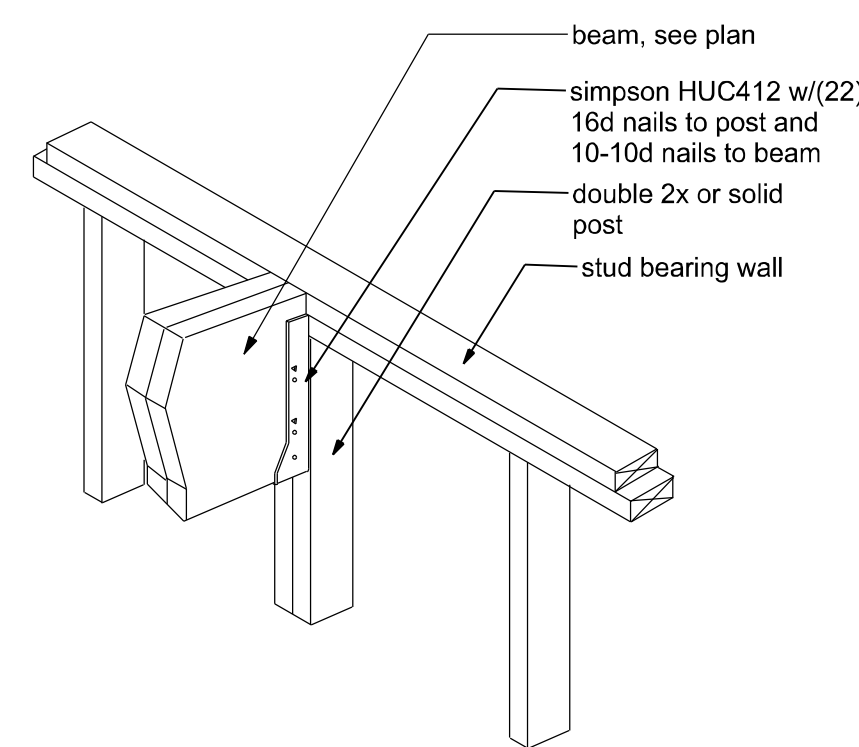




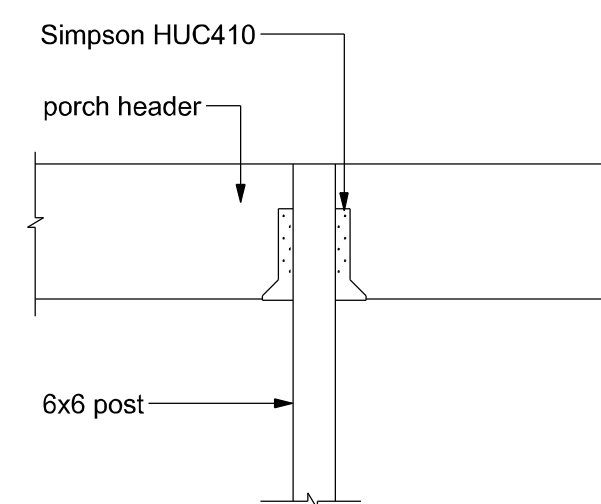




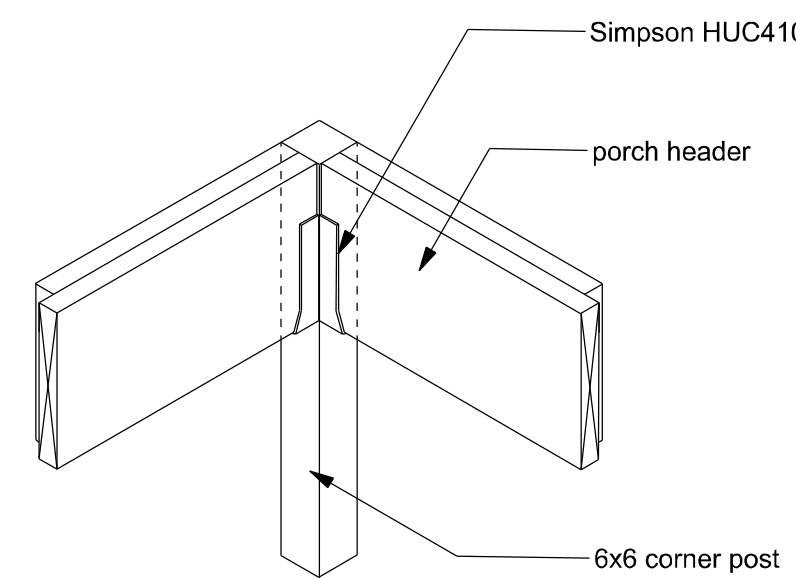
**LEFT ELEVATION**  
SCALE: 1/4" = 1'-0"



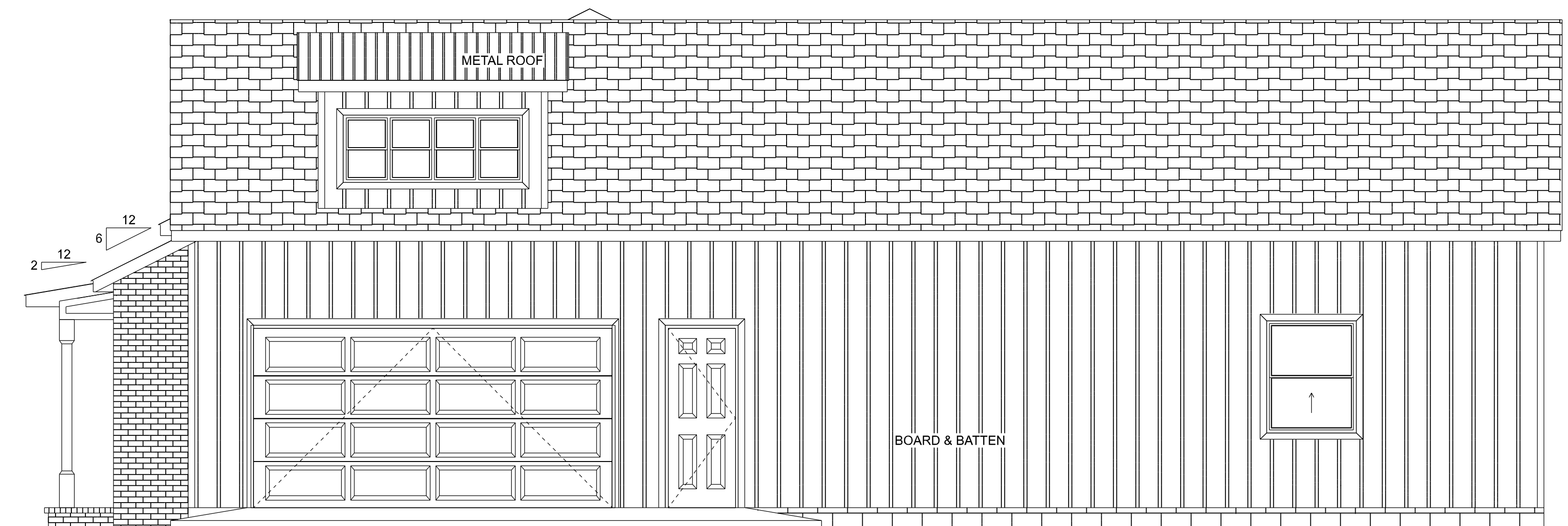
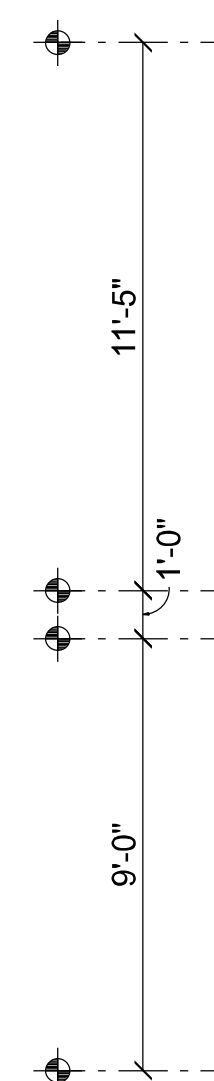
**BEAM/WALL CONNECTION**  
MAX. CAPACITY - 3640# DOWN; 1810# UPLIFT NOT TO SCALE



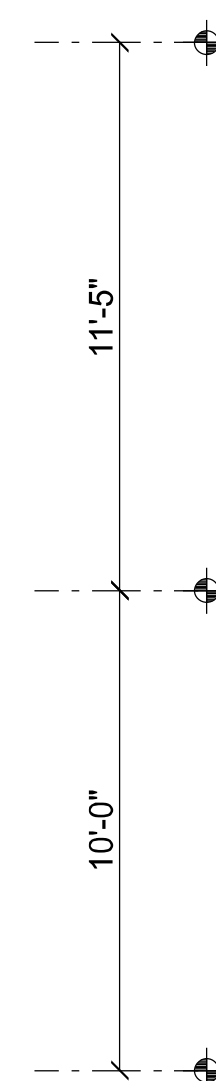
**INTERMEDIATE POST**  
NTS



**CORNER POST**  
NTS



**RIGHT ELEVATION**  
SCALE: 1/4" = 1'-0"



**REVISIONS**

| DATE | BY | DESCRIPTION |
|------|----|-------------|
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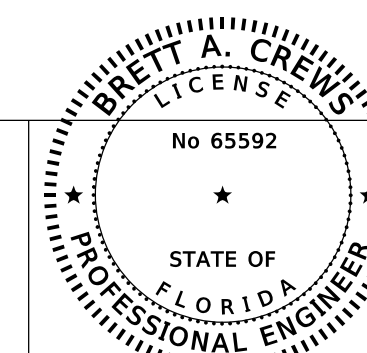
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Brett A. Crews, P.E. 65592

DRAWN BY:

**TM**

APPROVED BY:

**BC**

**LAY RESIDENCE**

**ELEVATIONS SIDES**

PROJECT NO.:

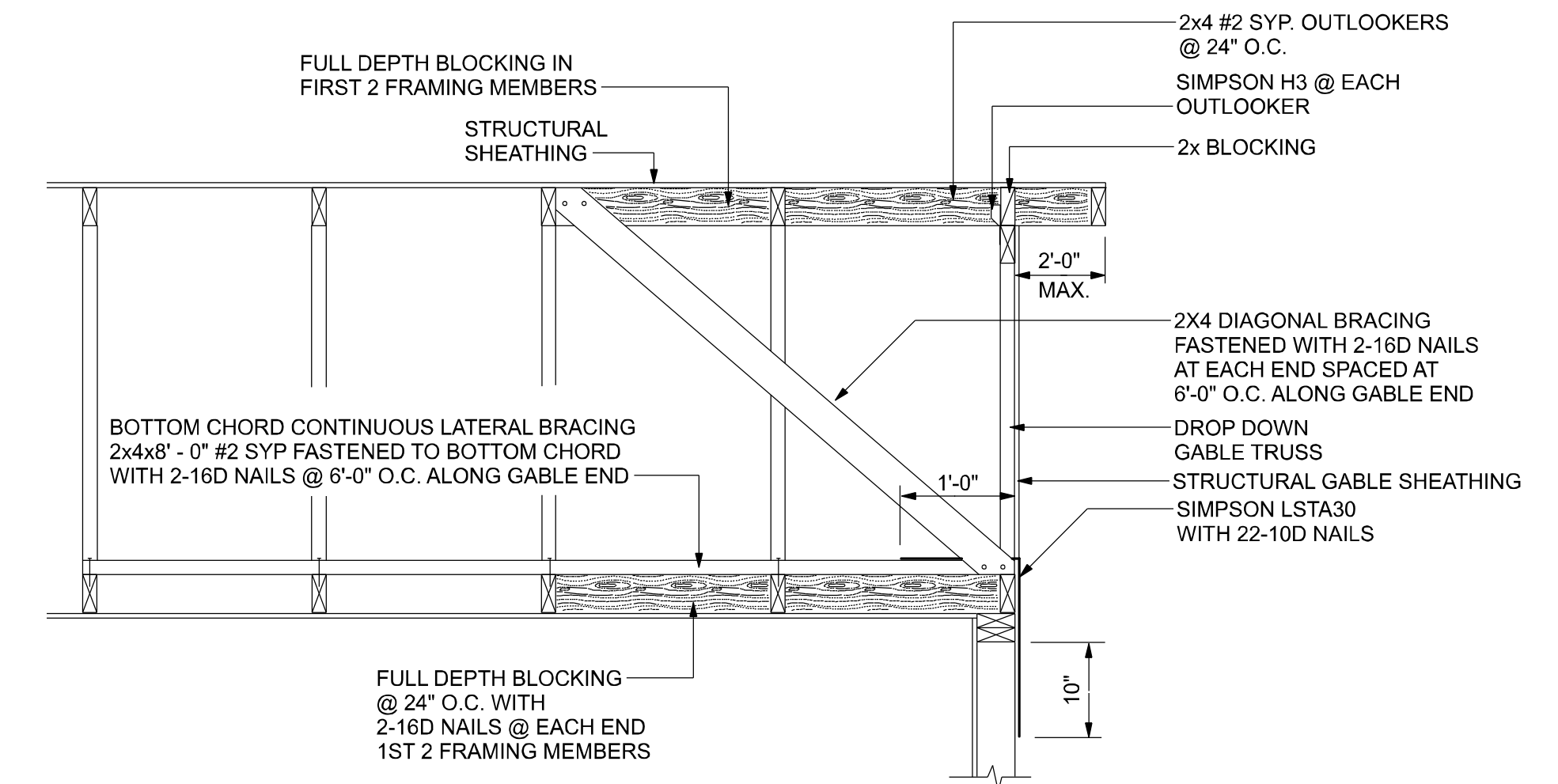
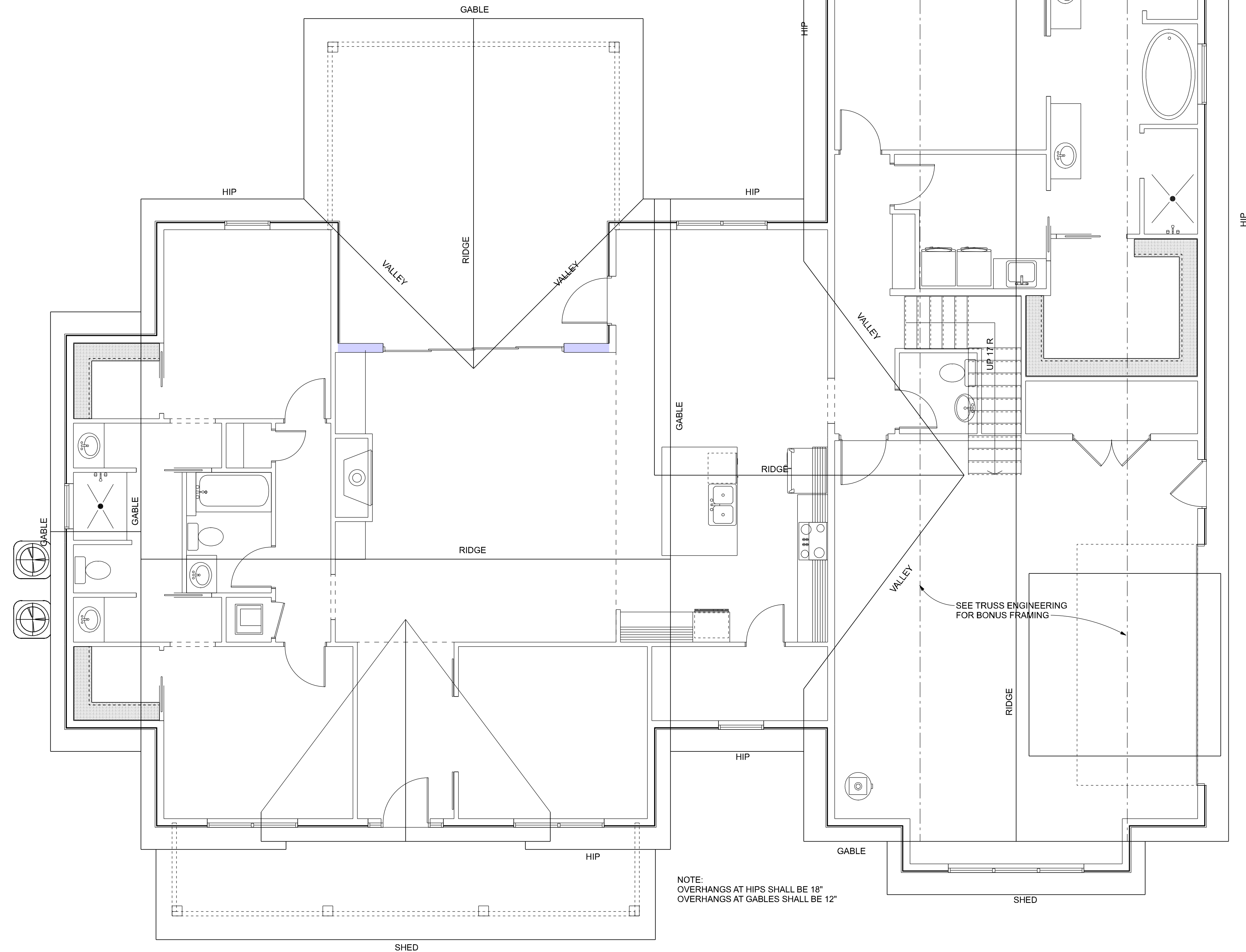
**R22.013**

SHEET:

**A-4**



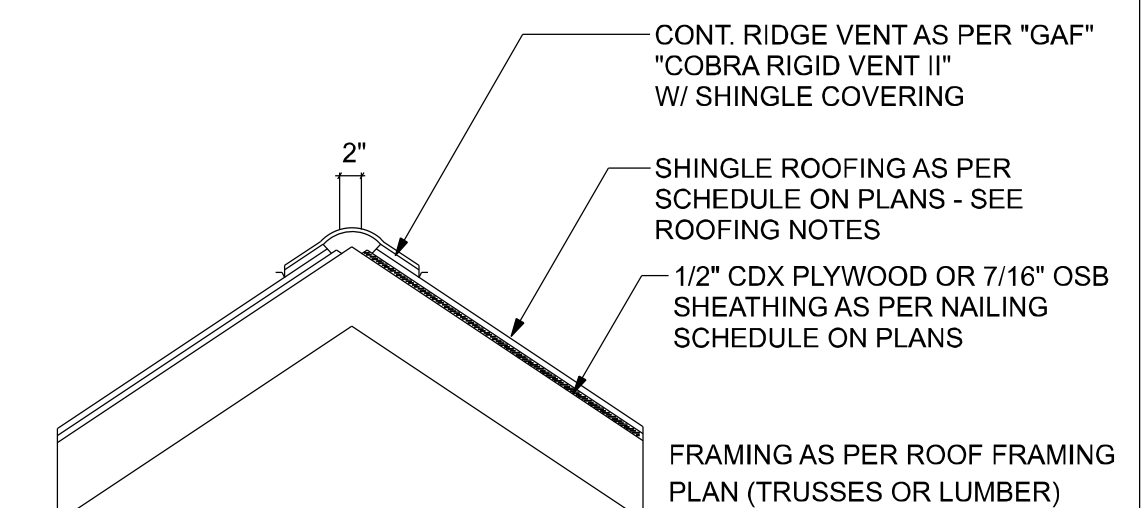
| CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE |              |              |                       |              |
|----------------------------------------|--------------|--------------|-----------------------|--------------|
| CONNECTOR                              | TRUSS        | TOP PLATE    | UPLIFT PROVIDED       | MANUFACTURER |
| H2.5                                   | 5-8d NAILS   | 5-8d NAILS   | 365 LBS               | SIMPSON      |
| H10                                    | 8-8d NAILS   | 8-8d NAILS   | 850 LBS               | SIMPSON      |
| MTS12                                  | 7-10d NAILS  | 7-10d NAILS  | 1,000 LBS             | SIMPSON      |
| H16                                    | 2-10d NAILS  | 10-10d NAILS | 1,300 LBS             | SIMPSON      |
| (2)HTS20                               | 10-10d NAILS | 10-10d NAILS | 2 x 1,450 = 2,900 LBS | SIMPSON      |



### END WALL BRACING FOR CEILING DIAPHRAGM

NTS NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

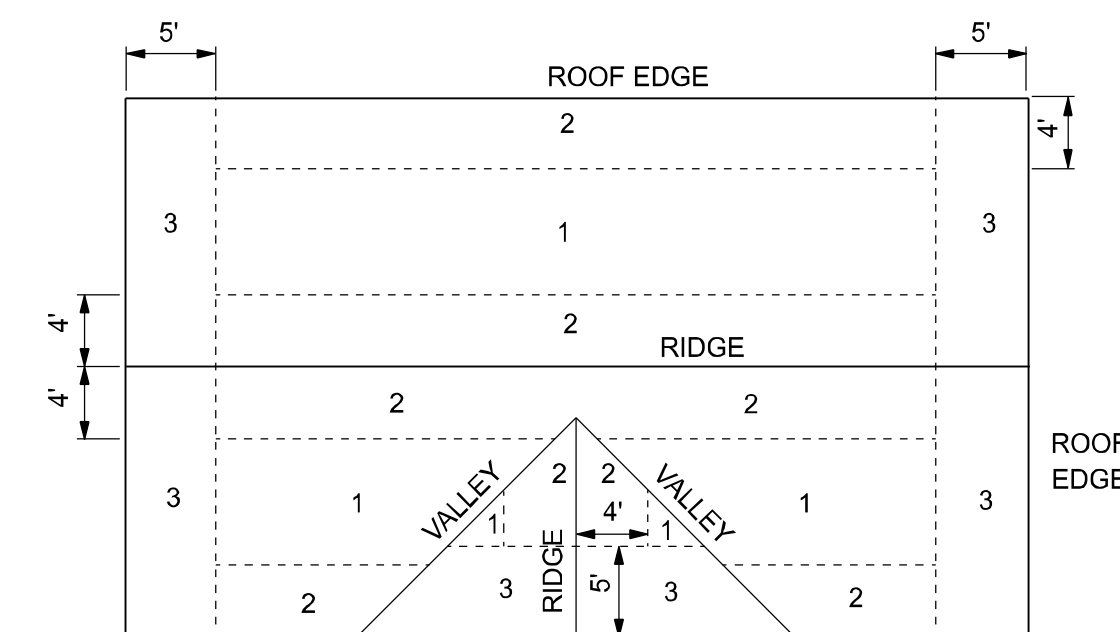
| ROOF SHEATHING FASTENERS |                |                                 |                                                   |
|--------------------------|----------------|---------------------------------|---------------------------------------------------|
| NAILING ZONE             | SHEATHING TYPE | FASTENER                        | SPACING                                           |
| 1                        |                |                                 | 6" O.C. EDGE<br>12" O.C. FIELD                    |
| 2                        | 7/16" OSB      | 8D GALV.<br>RING SHANK<br>NAILS | 6" O.C. EDGE<br>6" O.C. FIELD                     |
| 3 (N/A)                  |                |                                 | 4" O.C. @ GABLES<br>6" O.C. EDGE<br>6" O.C. FIELD |



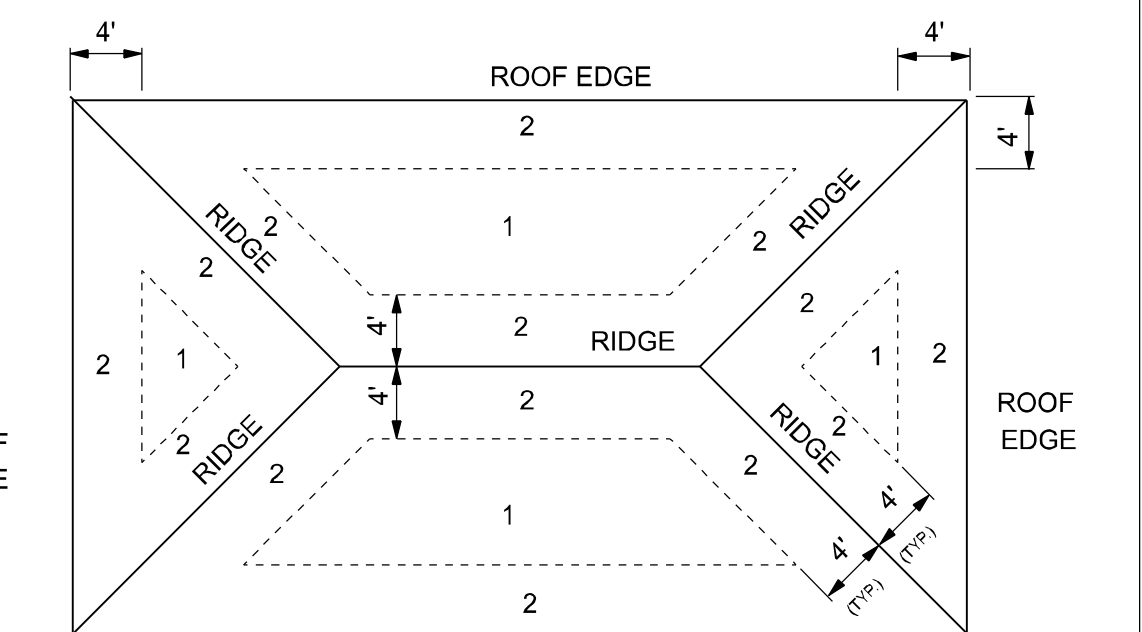
### RIDGE VENT DETAIL

NOTE:  
VENTING SHALL BE PROVIDED SUCH THAT TOTAL  
NET FREE VENTILATING AREA SHALL NOT BE  
LESS THAN 1/150 OF THE AREA OF THE SPACE  
VENTILATED

## ROOF SHEATHING FASTENING



## ROOF SHEATHING NAILING ZONES (GABLE ROOF)



## ROOF SHEATHING NAILING ZONES (HIP ROOF)

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

| REVISIONS |    |             |
|-----------|----|-------------|
| DATE      | BY | DESCRIPTION |
|           |    |             |

**DESIGN BY:**

**TRADEMARK**  
**Construction Group, Inc.**

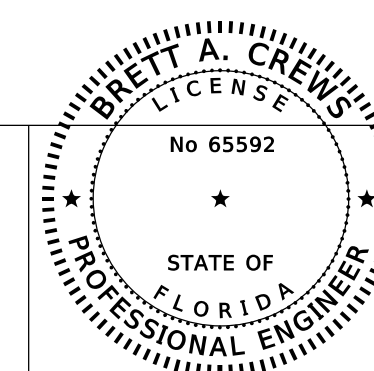
CERTIFIED GENERAL CONTRACTOR  
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**Brett A. Crews, P.E. 65592**

DRAWN BY:

TM

APPROVED BY:

BC

**LAY RESIDENCE**

## ROOF PLAN

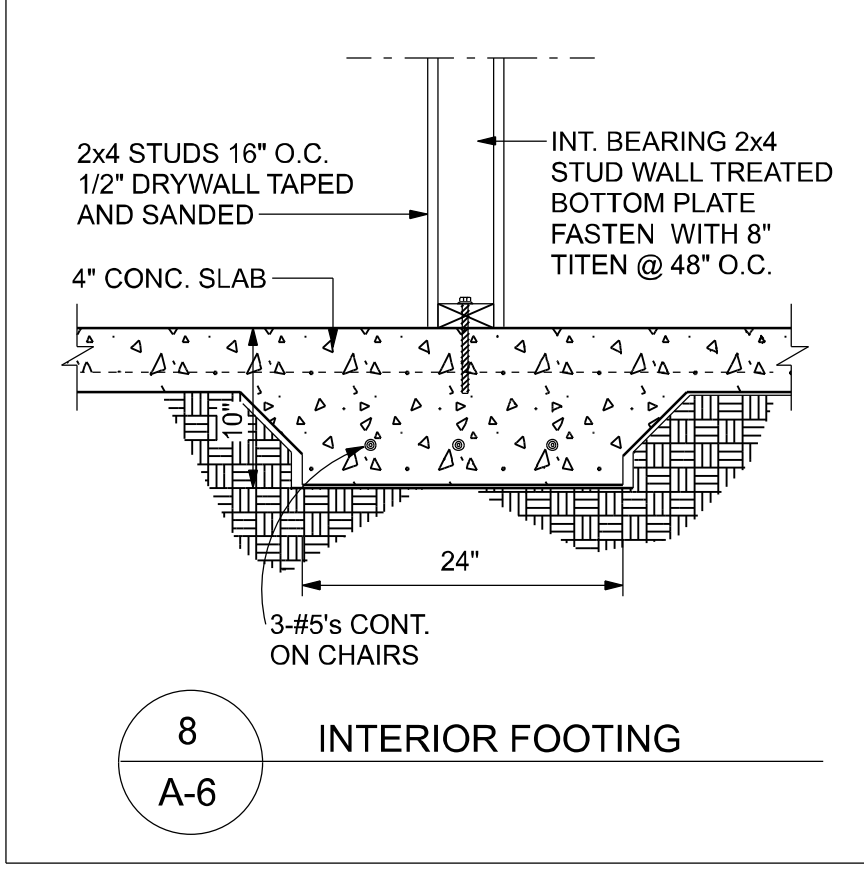
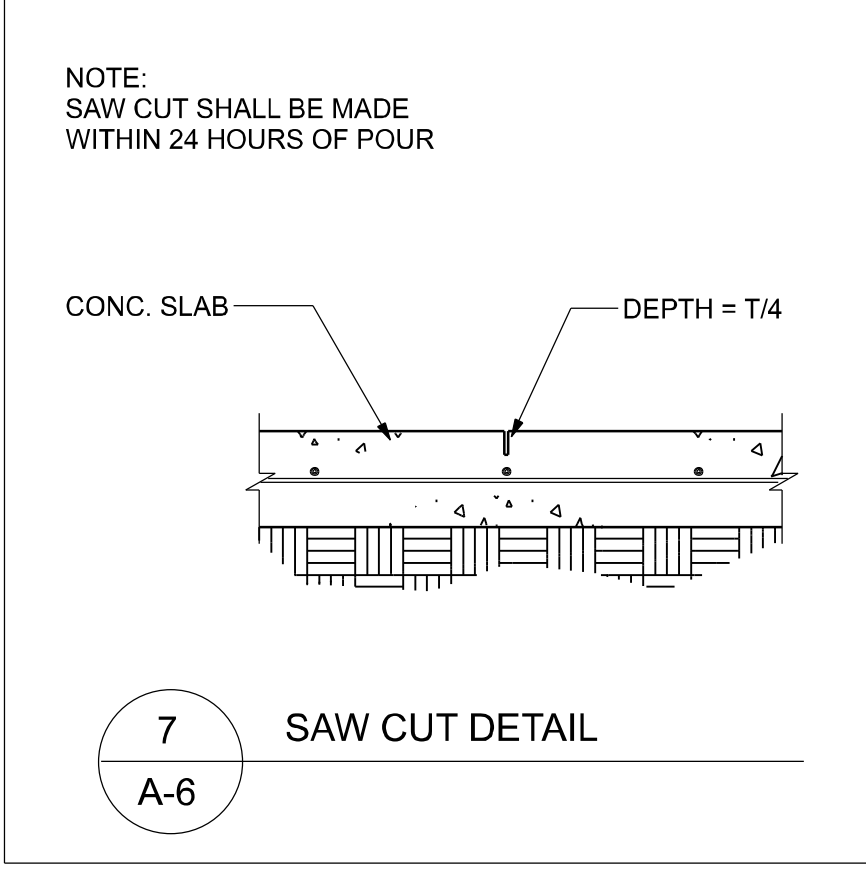
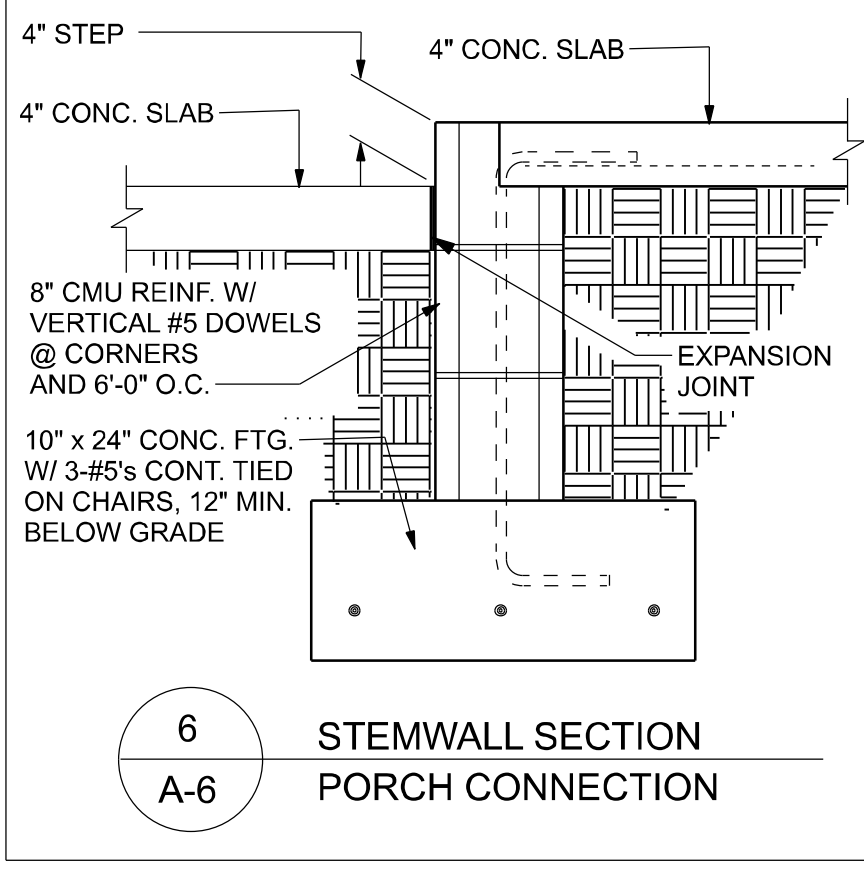
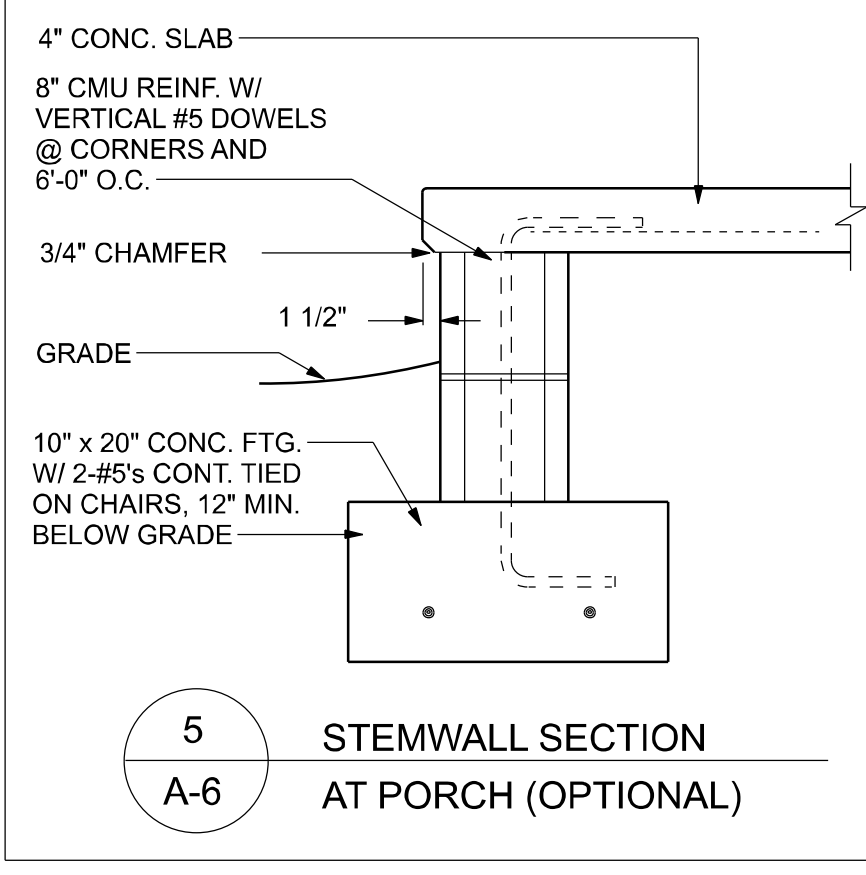
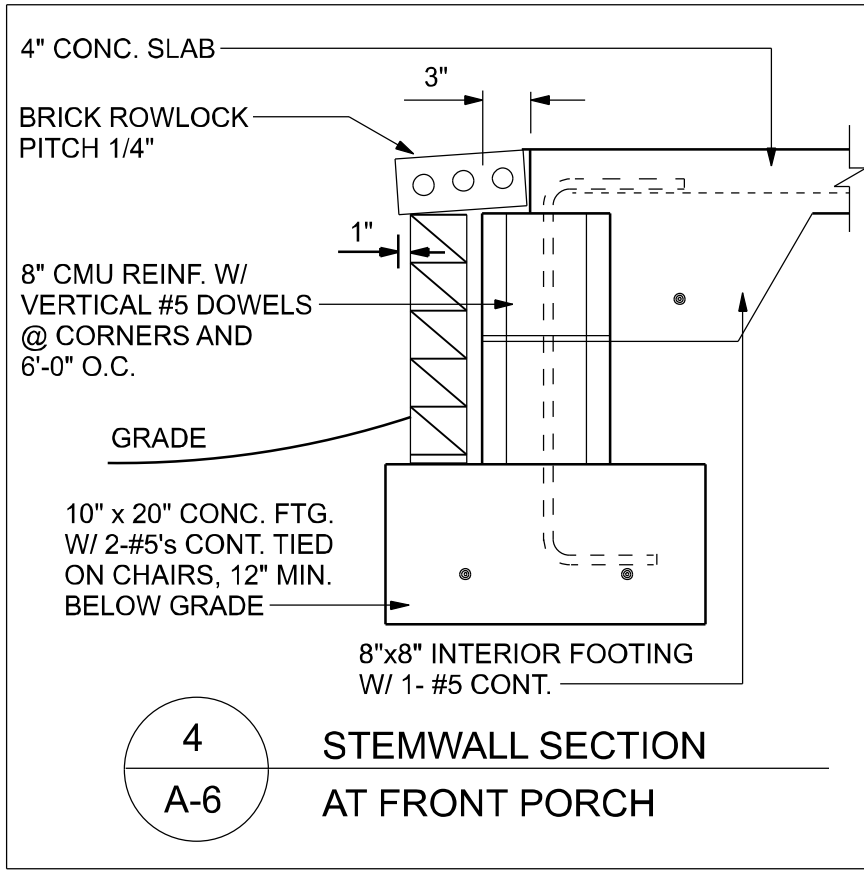
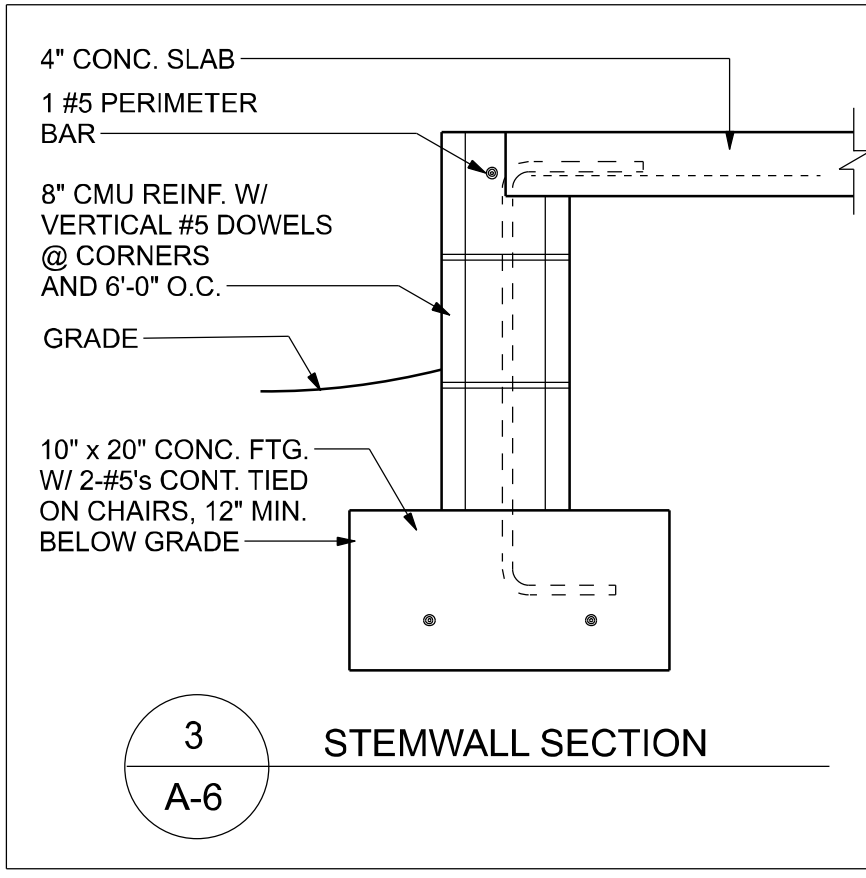
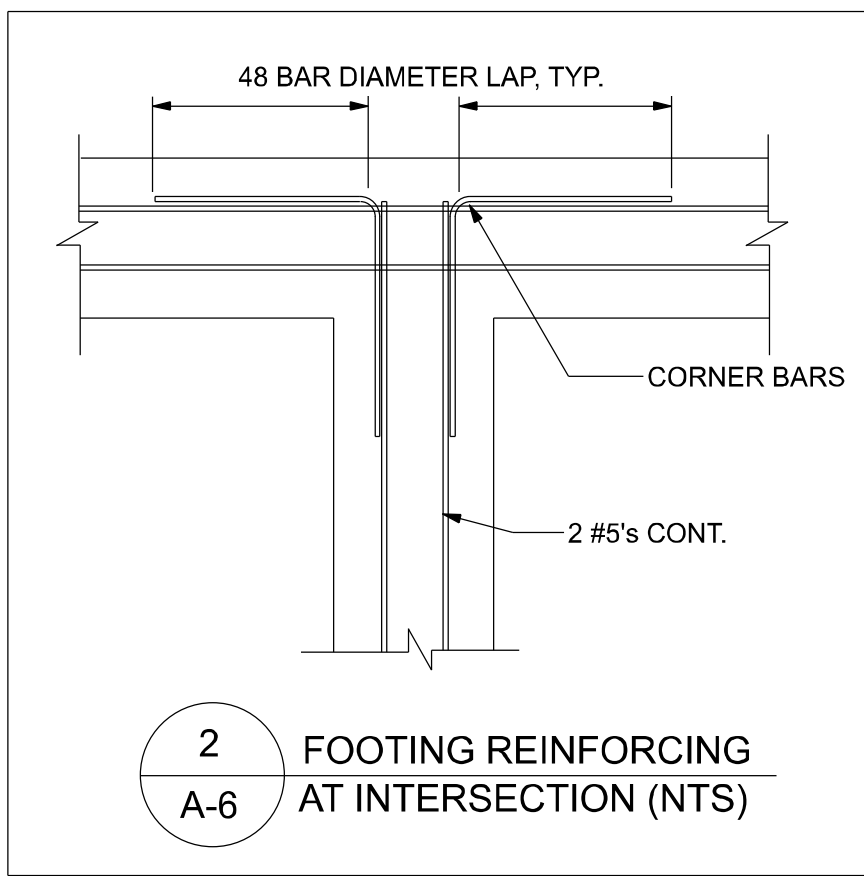
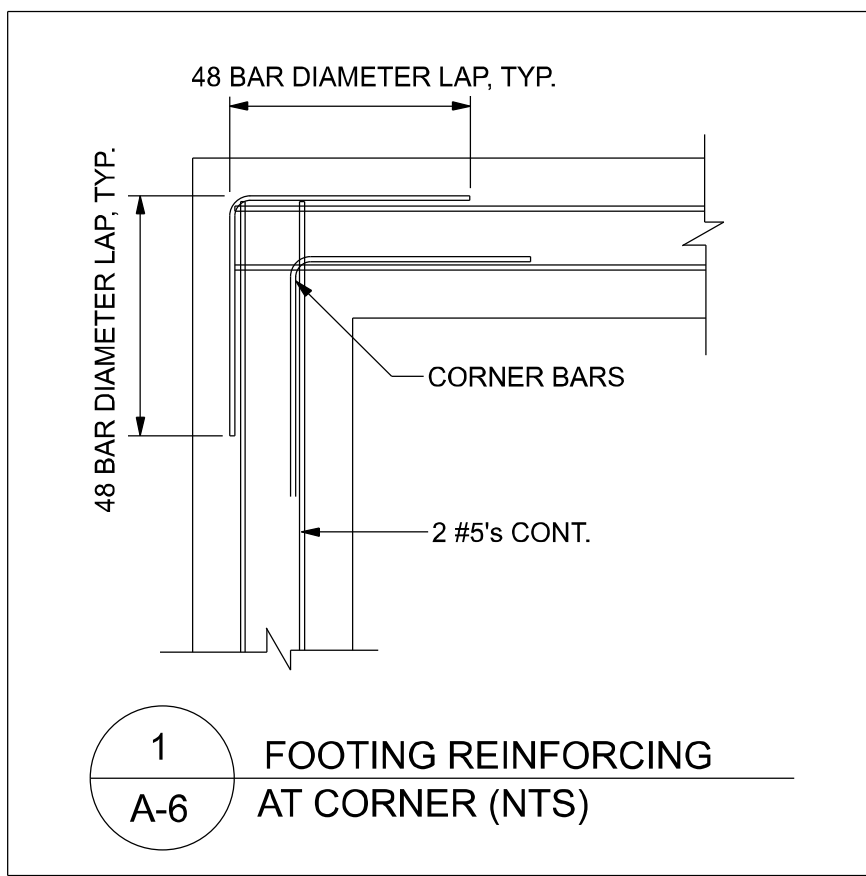
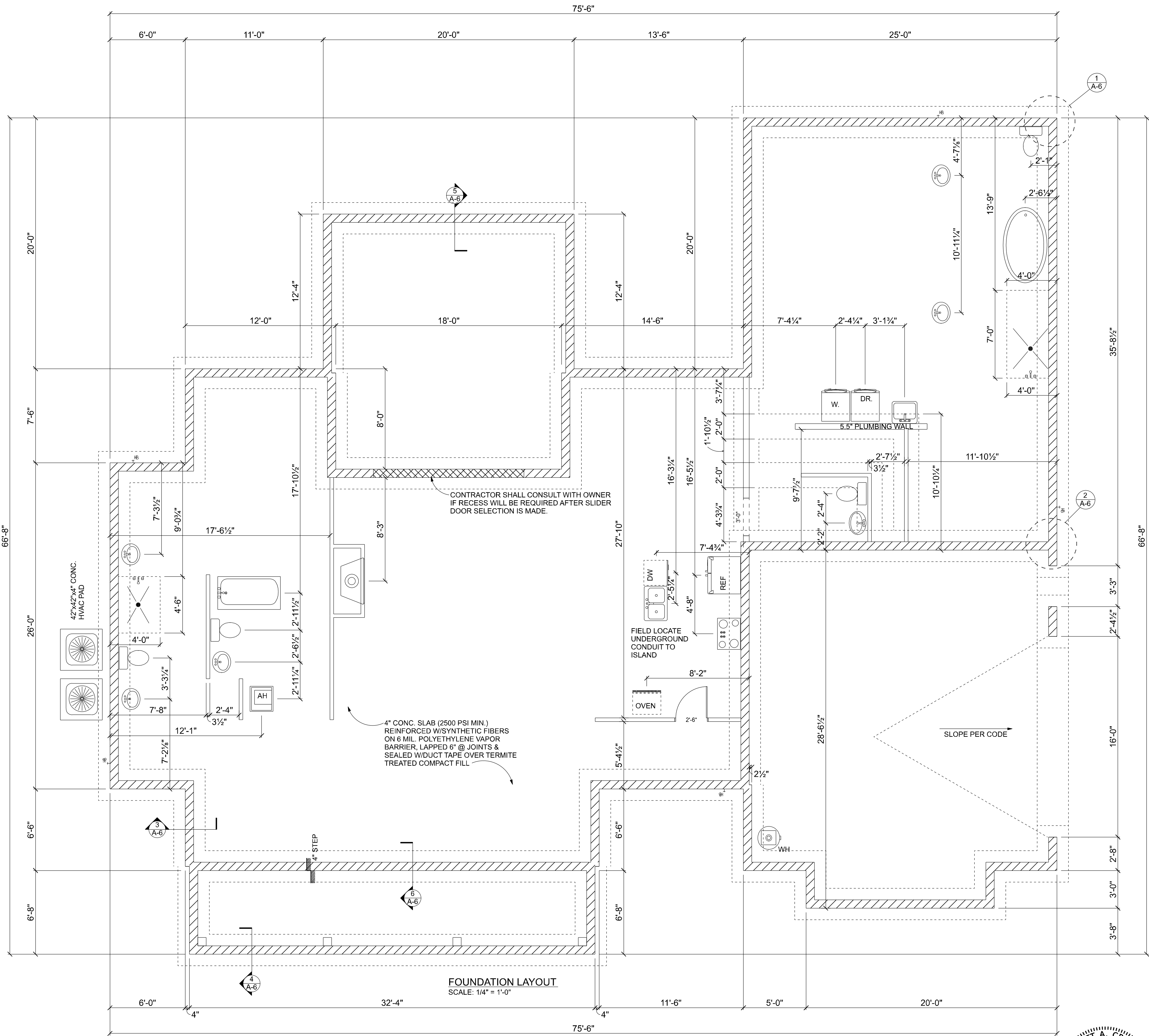
PROJECT NO.:

R22.013

SHEET:

A-5





NOTE:  
STEMWALL HEIGHTS MAY DIFFER IN THE FIELD BUT  
SHALL NOT EXCEED 5'-4" UNLESS APPROVED BY  
THE ENGINEER.

| REVISIONS |    |             |
|-----------|----|-------------|
| DATE      | BY | DESCRIPTION |
|           |    |             |

DESIGN BY:

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Construction Group, Inc.

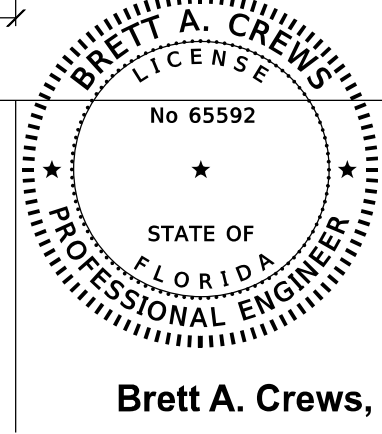
CERTIFIED GENERAL CONTRACTOR  
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|                           |                      |                         |
|---------------------------|----------------------|-------------------------|
| DRAWN BY:<br><b>TM</b>    | <b>LAY RESIDENCE</b> | PROJECT NO.:<br>R22.013 |
| APPROVED BY:<br><b>BC</b> |                      | SHEET:<br>A-6           |

FOUNDATION PLAN



SHINGLE NOTES:

DECK REQUIREMENTS:  
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:  
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 4:12 OR GREATER. FOR ROOF SLOPES FROM 3:12 TO 4:12, DOUBLE UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:  
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:  
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

ASPHALT SHINGLES:  
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:  
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:  
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

UNDERLAYMENT APPLICATION:  
FOR ROOF SLOPES FROM 3:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:  
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:  
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

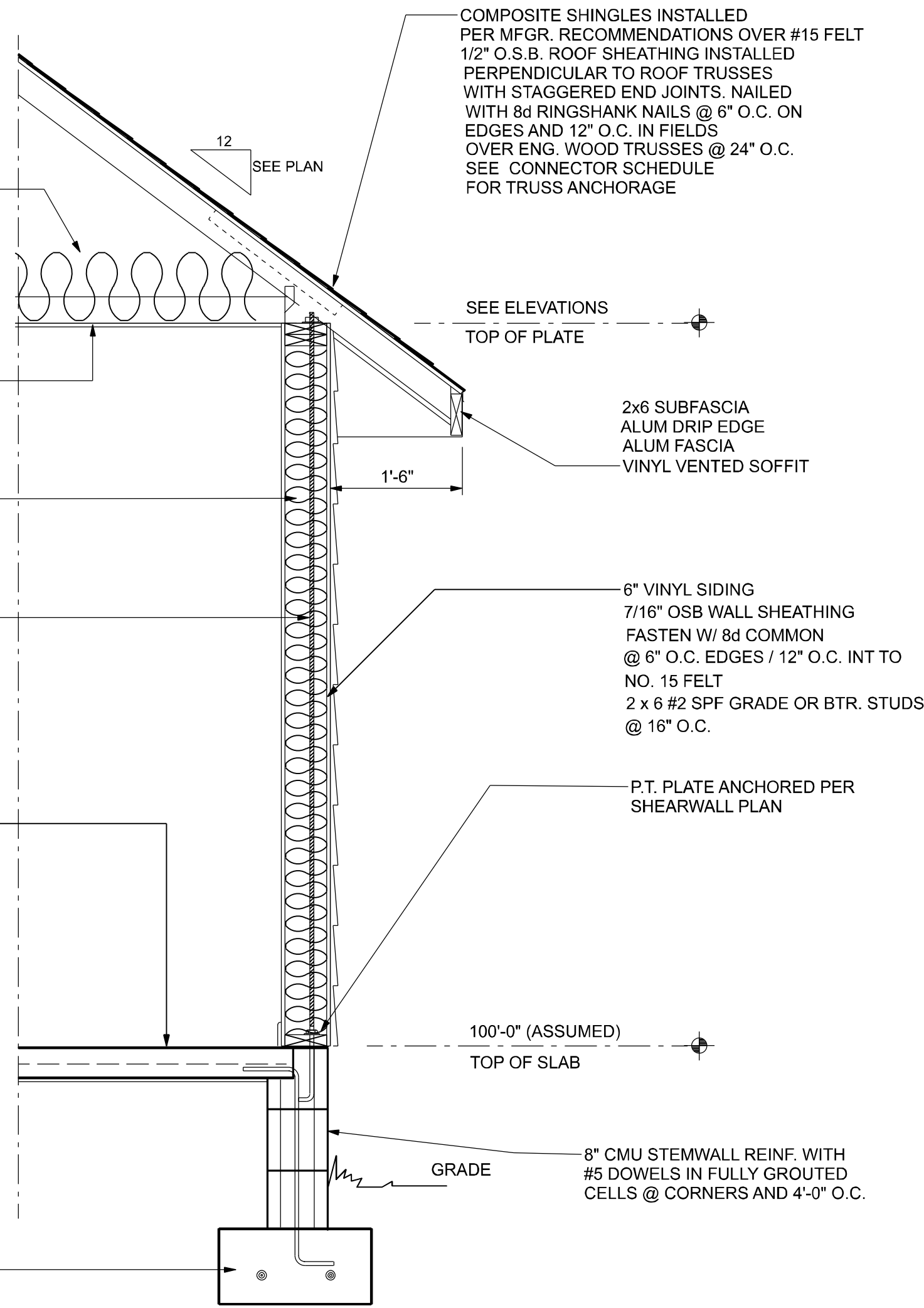
BASE AND CAP FLASHINGS:  
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEYS:  
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.  
1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2.  
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.  
3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:  
1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.  
2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.  
3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

| MATERIAL                      | MINIMUM THICKNESS (in) | GAGE                 | WEIGHT (LB) |
|-------------------------------|------------------------|----------------------|-------------|
| COPPER                        |                        |                      | 1           |
| ALUMINUM                      | 0.024                  |                      |             |
| STAINLESS STEEL               |                        | 28                   |             |
| GALVANIZED STEEL              | 0.0179                 | 26 (zinc coated G90) |             |
| ZINC ALLOY LEAD PAINTED TERNE | 0.027                  |                      | 2 1/2 20    |

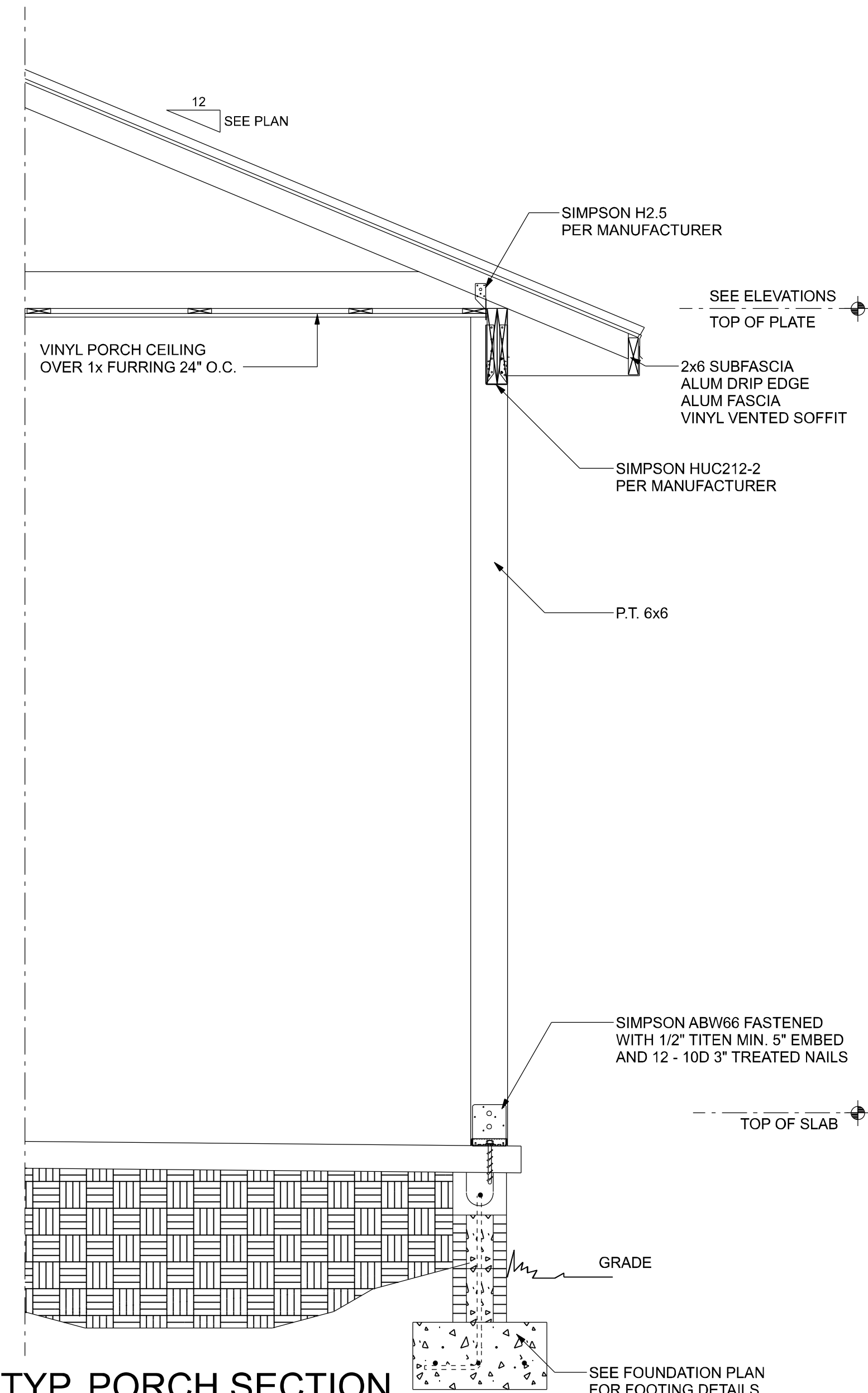
GENERAL NOTES:

- THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
- THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORK-MANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
- AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
- THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
- ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
- ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.



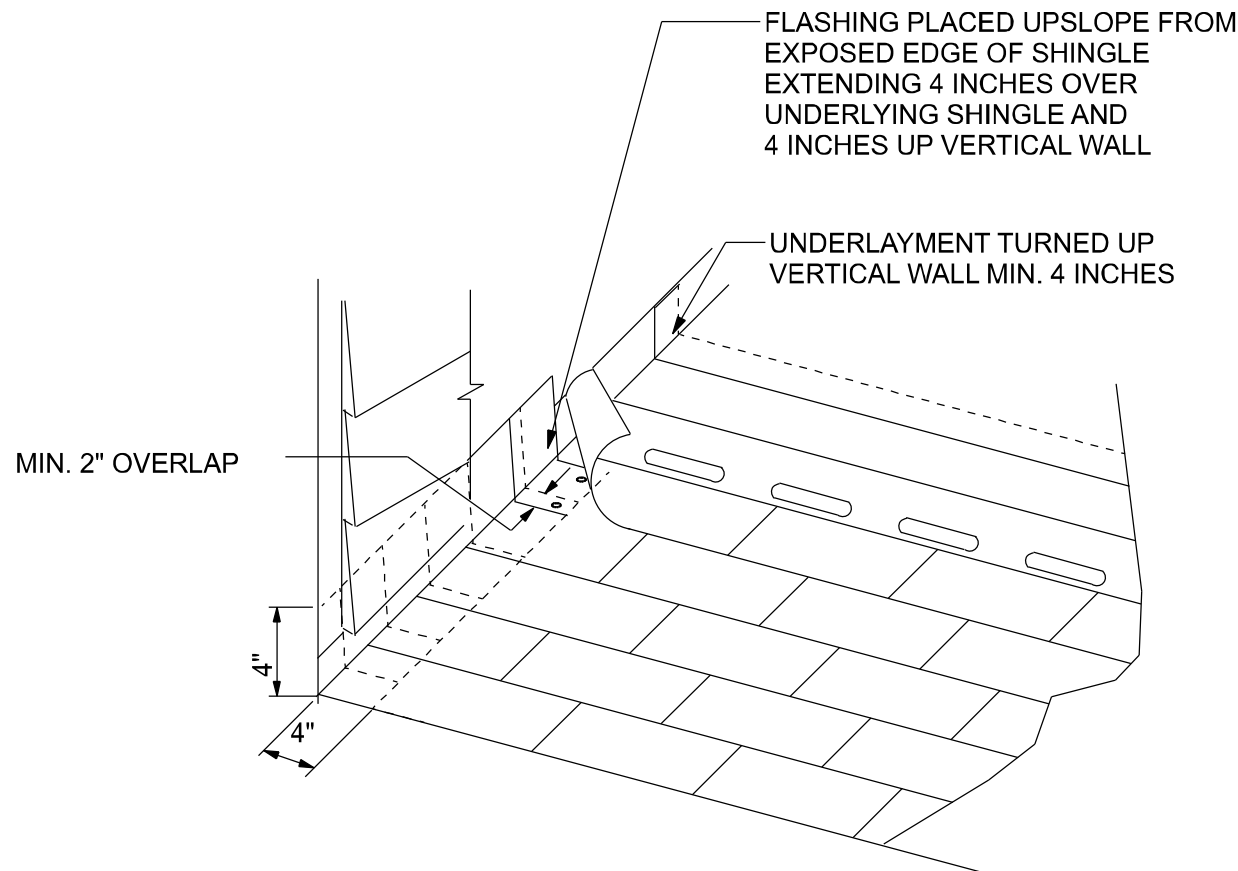
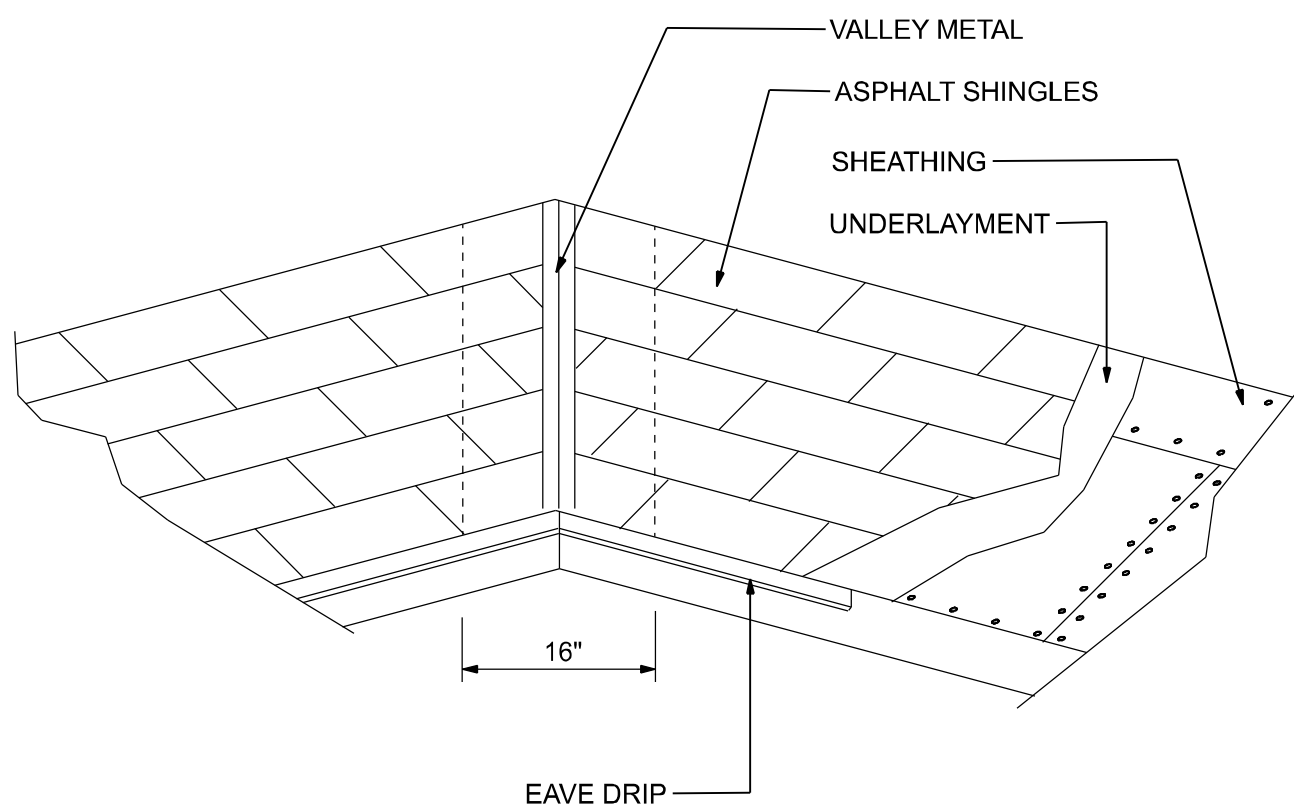
TYPICAL WALL SECTION

3/4" = 1'-0"



TYP. PORCH SECTION

SCALE: NTS



UPLIFT CONNECTORS

- UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCATION OF THESE WALLS.

FIELD REPAIR NOTES

- MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTS16 TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TITENS TO THE BOND BEAM BLOCK AND (7) 10d TO THE TRUSS FOR UPLIFTS OF 1000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASIS.
- MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED W/ 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA. X 8" DEEP UNITEX "PROPOXY" 300 ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS ( OR 1/2" X 6" RAWL STUD EXPANSION ANCHORS. )
- REGARDING MISSED REBAR IN VERTICAL FILLED CELLS: DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDDMENT EPOXY ( SIMPSON "EPOXY TIE SET", OR HILTI " 2 PART" EMBEDDMENT EPOXY ). MIXED PER MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR.
- HURRICANE STRAPS MAY BE SUBSTITUTED WITH A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT VALUE IN THE FIELD WITHOUT VERIFICATION, PROVIDED ALL MANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.
- FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT ( BAR DOES NOT HAVE TO BE CONT. TO FOOTING )

| REVISIONS |    |             |
|-----------|----|-------------|
| DATE      | BY | DESCRIPTION |
|           |    |             |

DESIGN BY:

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Construction Group, Inc.

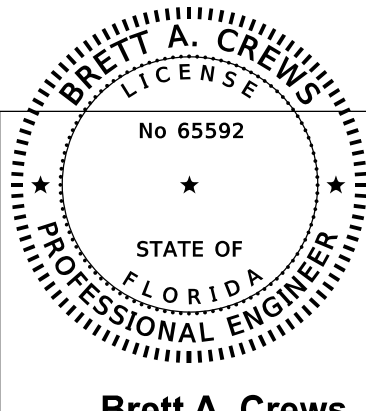
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Brett A. Crews, P.E. 65592

DRAWN BY:

TM

APPROVED BY:

BC

**LAY RESIDENCE**

SECTIONS AND FRAMING DETAILS

PROJECT NO.:

R22.013

SHEET:

A-7



- 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.

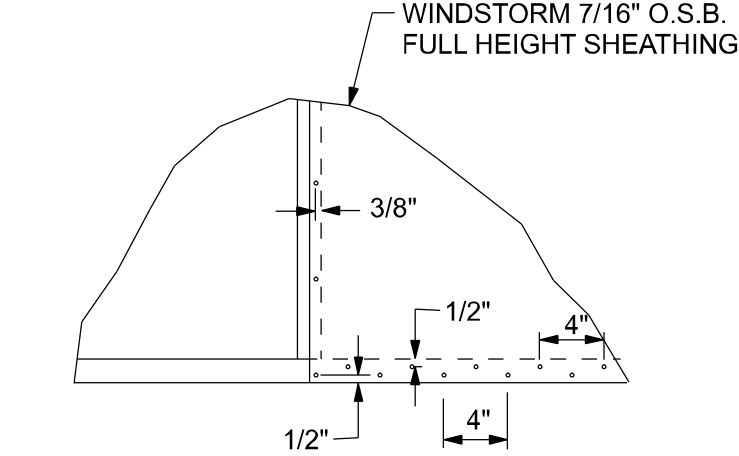
Sole plate to slab connection:  
The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will 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:

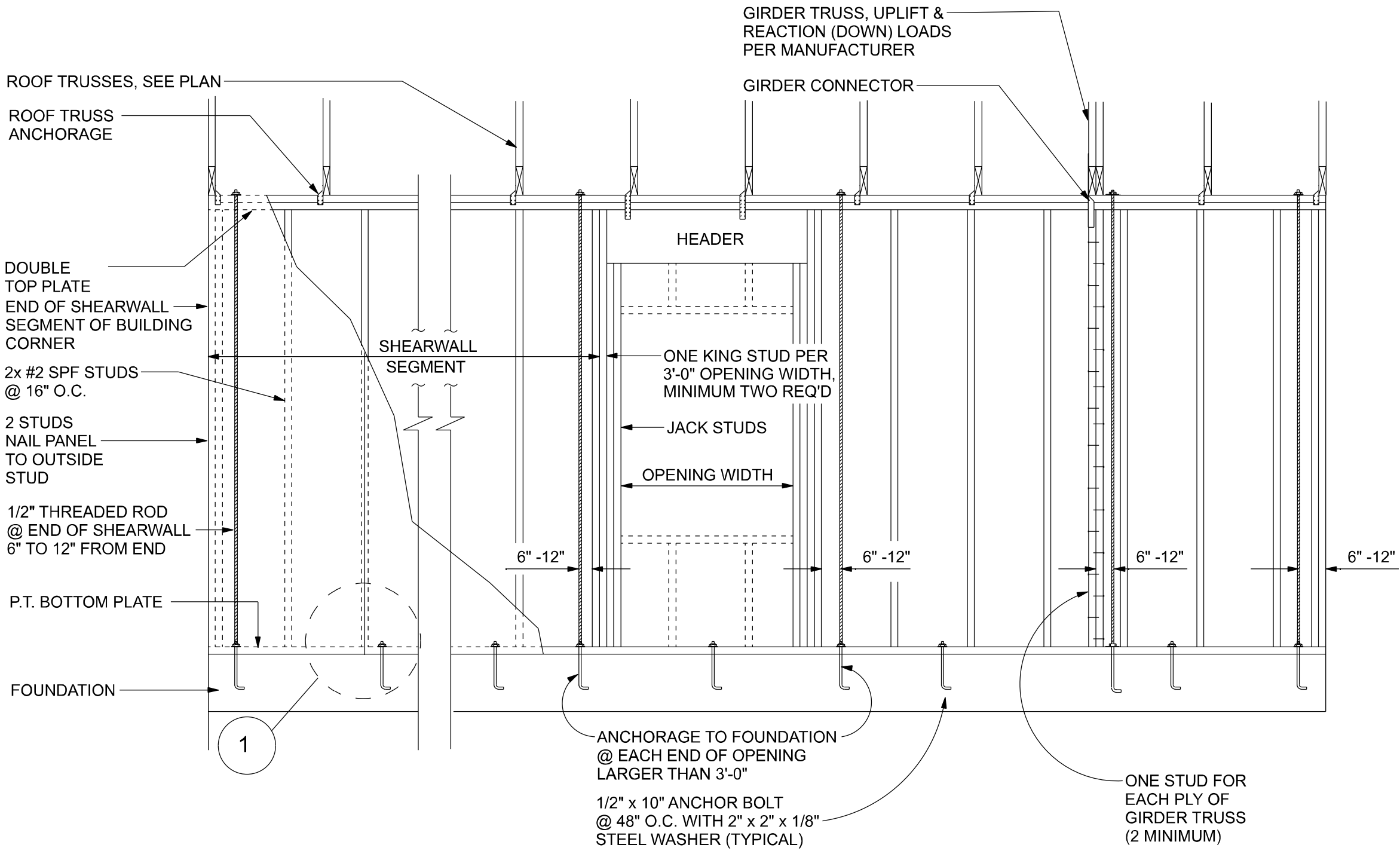
1. ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-99 305.4.3.
2. THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
3. ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER COMMON FRAMING 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. 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                      |



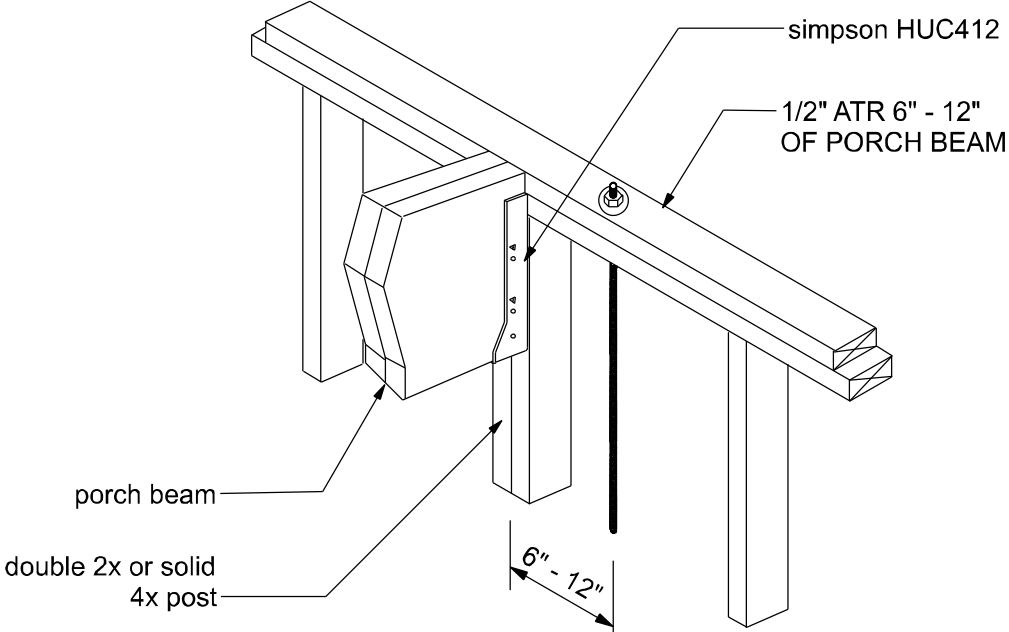
DOUBLE NAIL EDGE SPACING  
TOP AND BOTTOM PLATE  
UPLIFT CAPACITY = 474 plf  
(TABLE 305S1 SSTD10-99)

NOTE:  
ALL WALL SHEATHING SHALL BE WINDSTORM  
1 1/8" FULL HEIGHT SHEATHING-  
SEE DETAIL 1 FOR NAILING



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

NOTE:  
VERIFY GIRDER TRUSS LOCATION  
ON TRUSS LAYOUT FOR REQ'D  
ALL THREAD AT GIRDER LOCATION



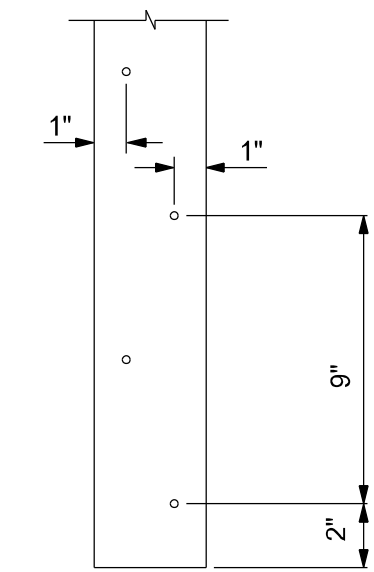
ALL THREAD @ PORCH BEAM  
NTS

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

| STRUCTURAL MEMBER                                                                    | ALLOWABLE DEFLECTION |
|--------------------------------------------------------------------------------------|----------------------|
| rafters having slopes greater than 2/12 with no finished ceiling attached to rafters | L/180                |
| interior walls and partitions                                                        | H/180                |
| floors and plastered ceilings                                                        | L/360                |
| all other structural members                                                         | L/240                |
| exterior walls with plaster or stucco finish                                         | H/360                |
| exterior walls - wind loads with brittle finishes                                    | L/240                |
| exterior walls - wind loads with flexible finishes                                   | L/120                |

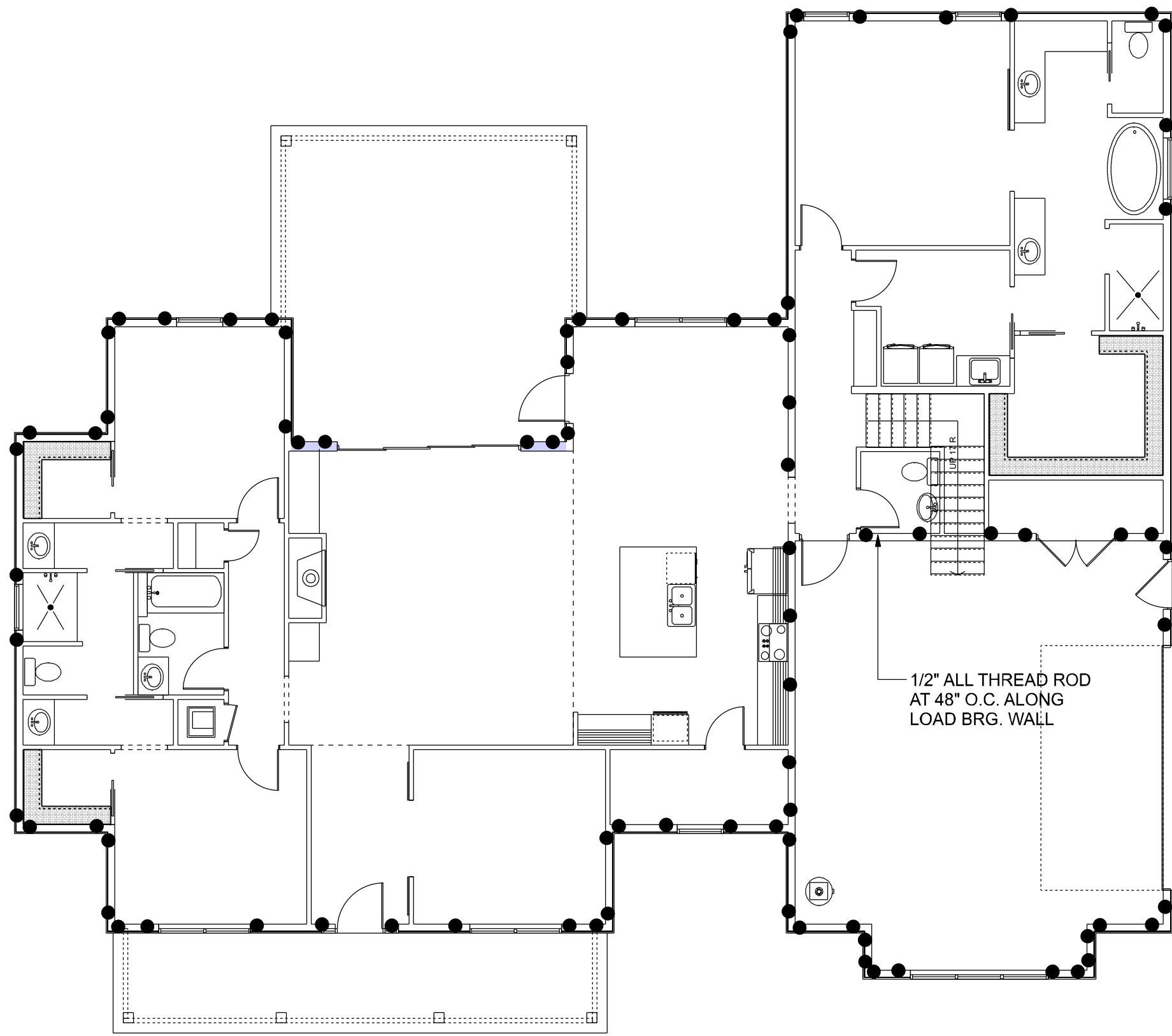
| OPENING CONNECTION REQUIREMENTS |                                 |             |                                  |                                               |
|---------------------------------|---------------------------------|-------------|----------------------------------|-----------------------------------------------|
| CLEAR OPENING WIDTH             | HEADER SIZE #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                           |

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.

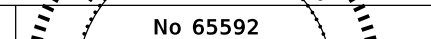


END (TOP OR BOTTOM)

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



ALL THREAD DETAIL  
● ALL THREAD LOCATION

| REVISIONS |    |             | DESIGN BY:                                                                                                      | CERTIFIED GENERAL CONTRACTOR<br>CGC1514780                              | <br>Crews Engineering Services, LLC | CERTIFICATE OF AUTHORIZATION<br>NO. 28022 | <br>Brett A. Crews, P.E. 65592 | DRAWN BY:<br><br>TM | APPROVED BY:<br><br>BC | LAY RESIDENCE     | PROJECT NO.:<br><br>R22.013 |
|-----------|----|-------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|-------------------|-----------------------------|
| DATE      | BY | DESCRIPTION |                                                                                                                 |                                                                         |                                                                                                                          |                                           |                                                                                                                     |                     |                        |                   |                             |
|           |    |             | <br>Construction Group, Inc. | 163 SW MIDTOWN PL.<br>STE. 101<br>LAKE CITY, FL. 32025<br>(386)755-5254 |                                                                                                                          |                                           |                                                                                                                     |                     |                        | SHEARWALL DETAILS |                             |