

CONCRETE / MASONRY / METALS GENERAL NOTES:

1. DESIGN SOIL BEARING PRESSURE: 1500 PSF.

2. EXPANSIVE SOILS: WHERE DIRECTED BY THE SOILS ENGINEER, SOIL AUGMENTATION PER THE SOILS ENGINEER'S SPECIFICATIONS SHALL BE IMPLEMENTED PRIOR TO PLACING ANY FOUNDATIONS - TESTS AS SPECIFIED SHALL BE PERFORMED TO DETERMINE THE SUITABILITY OF THE SUB-GRADE TO SUPPORT THE DESIGN LOADS.

3. CLEAN SAND FILL OVER STRIPPED AND COMPACTED EXISTING GD. SHALL BE PLACED IN 12" LIFTS. BOTH SUB-SOIL AND FILL COMPACTION SHALL BE NOT LESS THAN 98% AS MEASURED BY A MODIFIED PROCTOR TEST AT THE RATE OF ONE TEST FOR EACH 1500 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.

4. REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE REQUIREMENTS OF ASTM A615, ALL BENDS SHALL BE MADE COLD.

5. WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A185 - MIN. YIELD STRESS = 85 KSI.
6. CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.

7. CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - F'm = 1500 PSI.

8. MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.

9. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH, BOLTS SHALL BE ASTM A307 / GRADE I OR A325, AS PER PLAN REQUIREMENTS.

10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.

- NOTE:

1. FOUNDATION SHOWN IS FOR CLEAN SAND OR ROCK FILL ONLY. OTHER CONDITIONS SHOULD BE DESIGNED BY A LICENSED ENGINEER.

2. ASSUMED SOIL BEARING CAPACITY 2000 PSF.

3. ALL CONCRETE SHALL BE 3000 PSI.

4. PROVIDE ACCESS AND VENTS AS PER CODE.

5. FLOOR SYSTEM IS FLOOR TRUSSES BY OTHERS

6. DOUBLE FLOOR JOIST UNDER ALL PARALLEL PARTITION WALLS.

7. ALL EXPOSED FRAMING ON PORCHES AND DECKS SHALL BE PRESSURE TREATED.

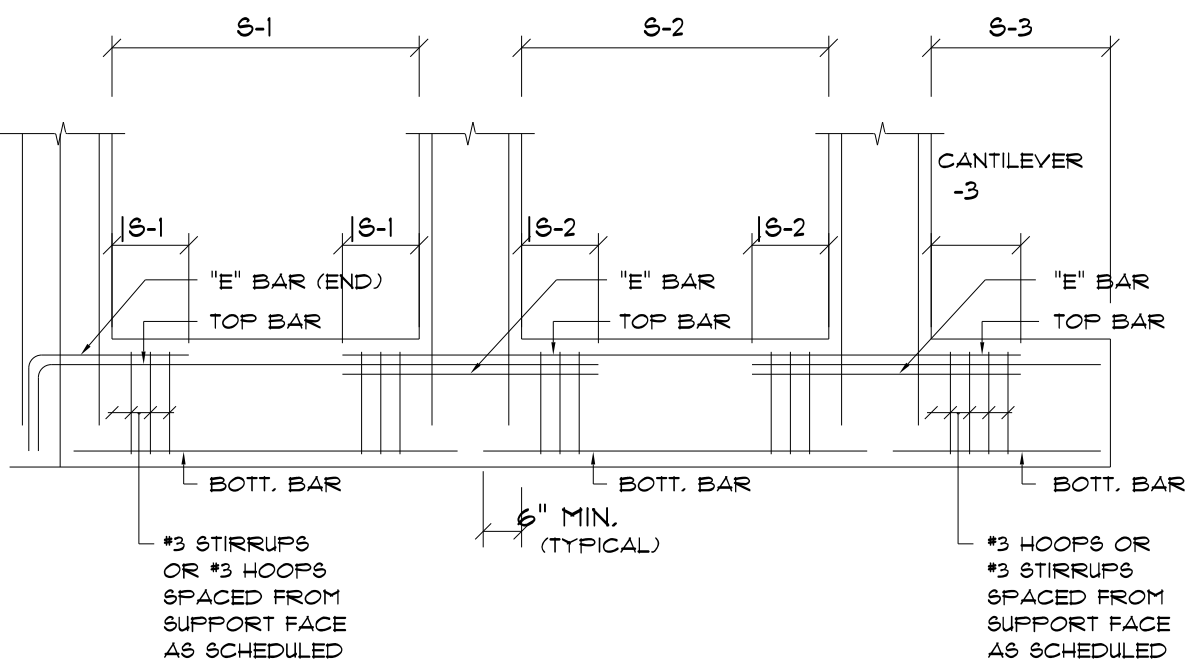
8. PROVIDE SOLID BLOCKING UNDER ALL BEARING POINTS.
9. ALL ANCHOR STRAPS, POST BASES, ANCHOR BOLTS AND ALL OTHER ASSOCIATED METAL CONNECTORS REQUIRED TO BE PLACED PRIOR TO POURING CONCRETE BY THE PLANS AND/OR PERMIT ISSUING AUTHORITY, SHALL BE PROVIDED BY THE CONTRACTOR.

NOTE:
THE DESIGN WIND SPEED FOR THIS PROJECT IS 150 MPH PER FBC 1603 AND LOCAL JURISDICTION REQUIREMENTS

DISCLAIMER
FOOTING SIZES ARE PRELIMINARY DESIGN ONLY!
FINAL FOOTING SIZES WILL BE CALCULATED UPON REVIEW OF SEALED TRUSS DESIGN!

GENERAL CONCTETE BEAM NOTES:

1. SCHEDULED HOOPS OR STIRRUPS SHALL BE PLACED AT EACH END OF BEAM UNLESS NOTED OTHERWISE. STIRRUPS SHALL BE TYPE S-6 & HOOPS SHALL BE TYPE T-2 TYPICAL CRS! BAR BENDS UNLESS NOTED OTHERWISE.
2. BUNDLE ALL STRUCTURAL BEAM TOP BARS IN PAIRS OVER SUPPORTS WITH TOP BARS FROM ADJACENT BEAMS.
3. ALL CONCRETE BEAMS OTHER THAN THOSE WITH THE PREFIX TB SHALL BE POURED PRIOR TO PLACING OF BLOCK BELOW.
4. ALL TIE BEAM REINFORCING SHALL BE CONTINUOUS THROUGH TIE BEAMS ONLY. ALL SPLICES SHALL BE A MINIMUM OF 30 BAR DIAMETERS.
5. ALL TIE BEAM TOP REINFORCING SHALL EXTEND INTO SPAN OF ANY ADJACENT STRUCTURAL BEAM AS PER BENDING DIAGRAM.
6. DROP BOTTOM OF TIE BEAMS AS REQUIRED AT WINDOW AND DOOR HEADS (28" MAXIMUM) AND ADD 2 #5 BOTTOM IF DROP EXCEEDS 8".
7. TIE BEAM SCHEDULED DEPTHS ARE MINIMUM AND MAY BE INCREASED (8" MAXIMUM) TO FIT BLOCK WORK.
8. ALL ADDED LONGITUDINAL BEAM REINFORCING SHALL EXTEND A MINIMUM OF 6" INTO SUPPORT UNLESS NOTED OTHERWISE.
9. MARK "C" IN REINFORCING COLUMN BETWEEN TWO BEAMS INDICATES THAT REINFORCING SHALL BE CONTINUOUS THROUGH THESE TWO BEAMS.



BOTTOM BARS - TOP BARS - "E" BARS
BENDING DIA.: CAST-IN-PLACE
CONCRETE BEAMS & SLABS

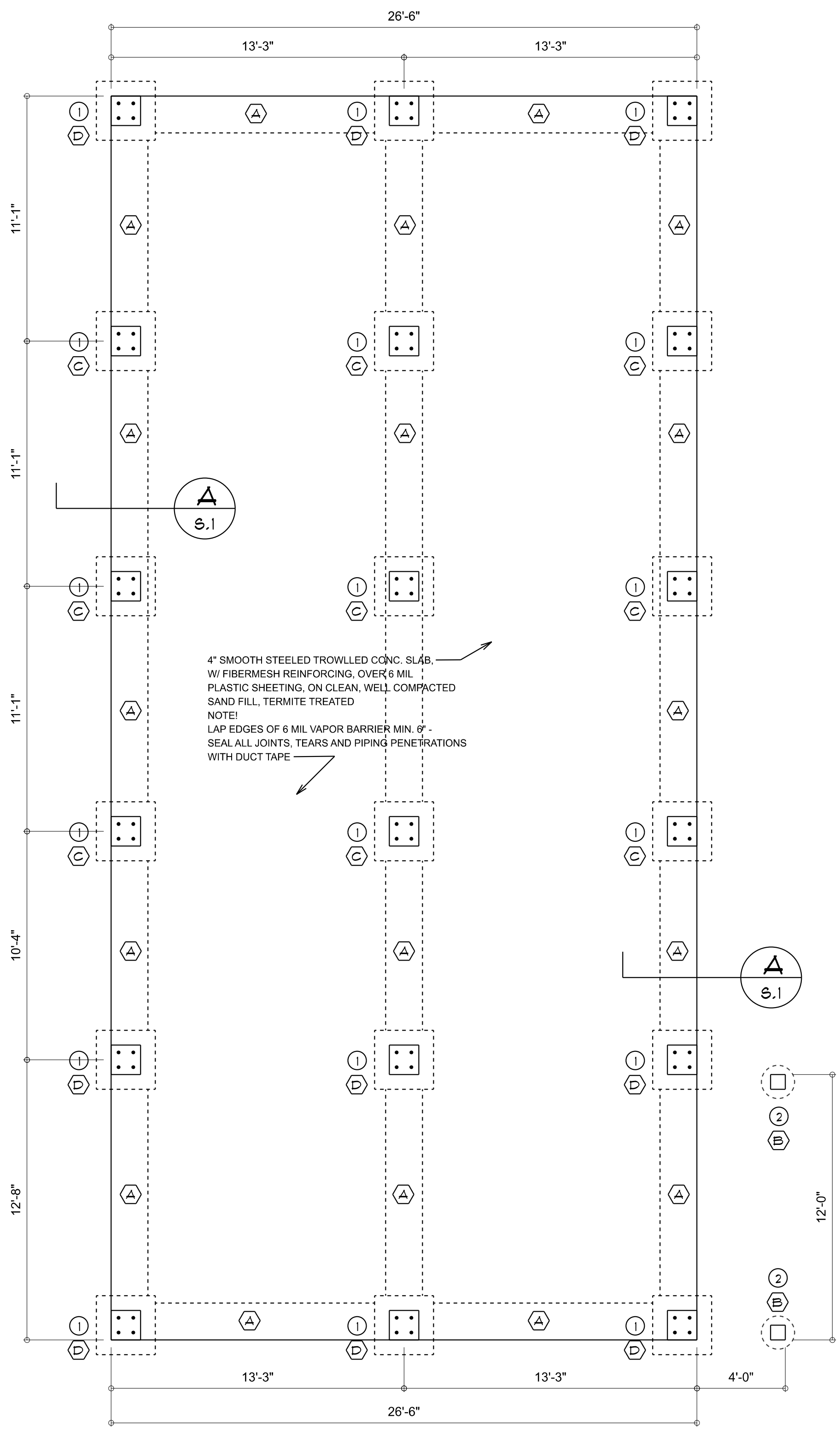
SCALE: NONE

PIER / POST SCHEDULE

- ① 16" X 16" CONC. FILLED CONC. BLOCK W/ 4 #5 VERT. REBAR HOOKED TO FTG USE "O" BLOCK, FOR POST ANCHOR PLACEMENT & USE 2 - HETA STRAPS TO FLOOR BEAM LAP VERT. 12" MIN.
- ② 8X8 FT WOOD POST SET IN CONCRETE

FOOTING SCHEDULE

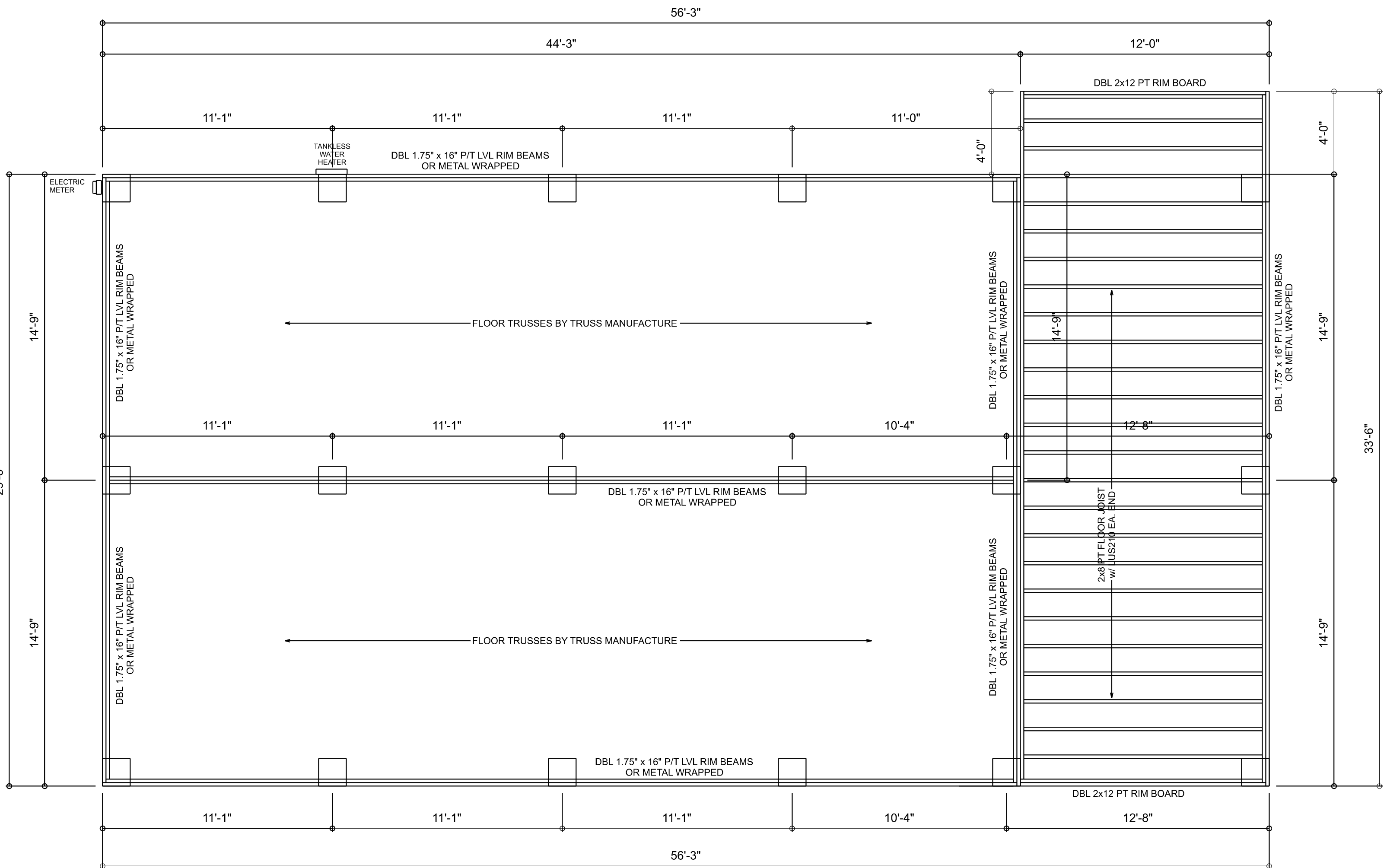
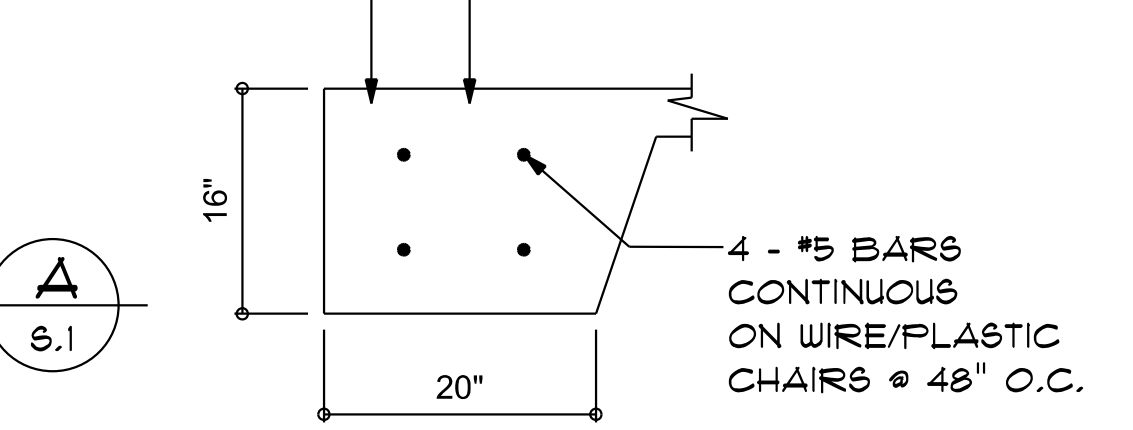
- Ⓐ 16" X 20" X GRADE BEAM FOOTING, W/ 2 #5 REBAR, TOP & BOTTOM, CONTINUOUS W/ #3 STIRRUPS: 4 @ 4" THEN 6 @ 6" EACH END, EACH BEAM
- Ⓑ 18" ROUND X 36" DEEP FOOTING, W/ #5 DRILLED THRU POST EA. WAY
- Ⓒ 48" SQ. X 16" THK. PAD FOOTING, W/ 6 #5 EA. WAY, TOP & BOTTOM
- Ⓓ 32" SQ. X 12" THK. PAD FOOTING, W/ 4 #5 EA. WAY, TOP & BOTTOM



FOUNDATION PLAN
SCALE 1/4" = 1'-0"

SECTION

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



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

REVISIONS
Dec. 2nd, 2022

CUSTOM HOME FOR:
FUTRAL RESIDENCE
Columbia County, Florida

NICHOLAS PAUL GEISLER ARCHITECT
1755 NW Brown Rd.
Lakes City, FL 32055
NCARB Certified

SHEET NUMBER
S.1
OF 4 SHEETS

Nicholas P. Geisler
Digitally signed by Nicholas P. Geisler
DN: cn=Nicholas P. Geisler email=npgeisler4@gmail.com C=US
Date: 2022.12.06 17:10:56 -0500'
AR0007005



WOOD STRUCTURAL NOTES

- TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SO ENGAGED. TEMPORARY & PERMANENT BRACING OF ROOF TRUSSES SHALL BE AS PER THE STANDARD GUIDELINES OF THE "TRUSS PLATE INSTITUTE".
- ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER & SHALL BE SIGNED AND SEALED BY SAME. TRUSS DESIGN SHALL INCLUDE PLACEMENT PLANS, TRUSS DETAILS, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE "TRUSS PLATE INSTITUTE".
- WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESS THAN No.2 HEM-FIR OR BETTER.
- CONNECTORS FOR WOOD FRAMING SHALL BE GALVANIZED METAL OR BLACK METAL AS MANUFACTURED OR AS CALLED FOR IN THE PLANS AND BE OF A DESIGN SUITABLE FOR THE LOADS AND USE INTENDED. REFER TO THE JOINT REINFORCEMENT SCHEDULE FOR PRINCIPLE CONNECTIONS.

STANDARD HEADER SCHEDULE

0'-0" UP TO 6'-0" OPENINGS

DOUBLE 2x8 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON MSTA24 TOP AND 1 - SIMPSON SPH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND 1 FULL HEIGHT STUD EACH SIDE OF OPENING

6'-0" UP TO 9'-0" OPENINGS

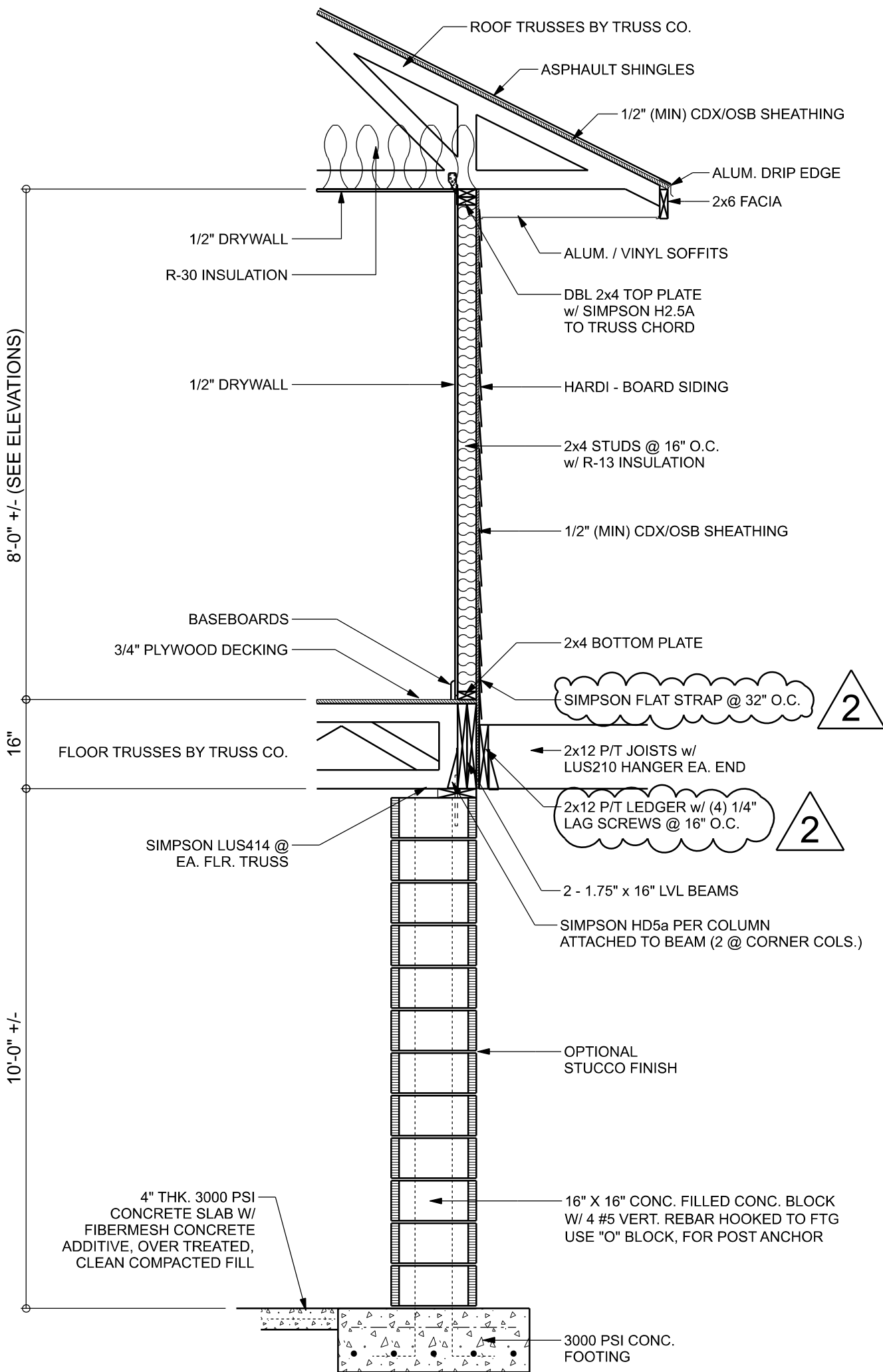
DOUBLE 2x12 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON MSTA24 TOP AND 2 - SIMPSON SPH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND 2 FULL HEIGHT STUDS EACH SIDE OF OPENING

9'-0" UP TO 16'-0" OPENINGS

DOUBLE 2x12 No.#2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 3 - SIMPSON MSTA15 EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING

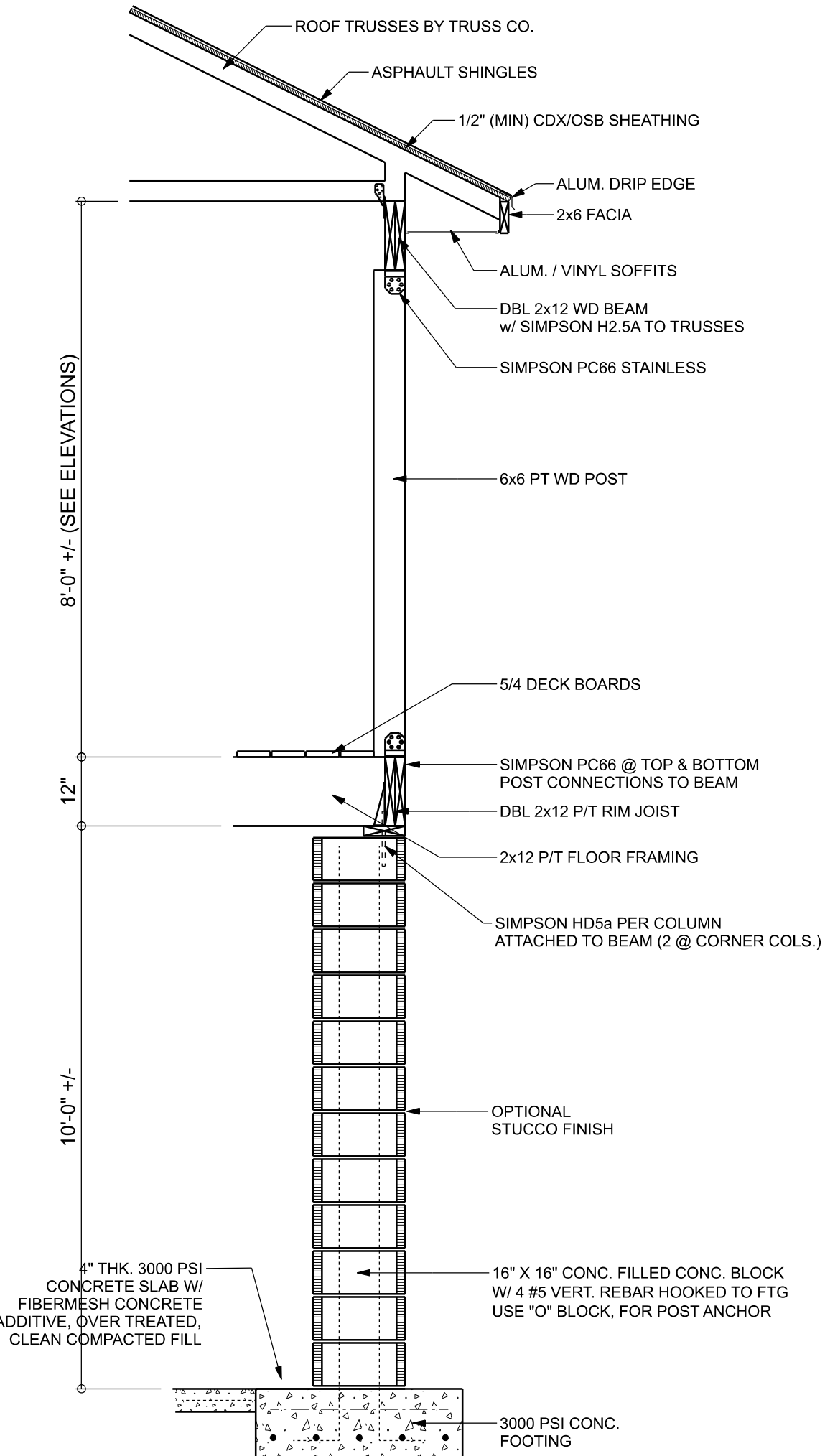
16'-0" GARAGE DOOR OPENINGS

2 FLY 1 1/4" x 11 1/8" 2.0E MICROLAM LVL HEADER GLUED AND NAILED WITH 10d x 0.128" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 3 - SIMPSON MSTA15 EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING



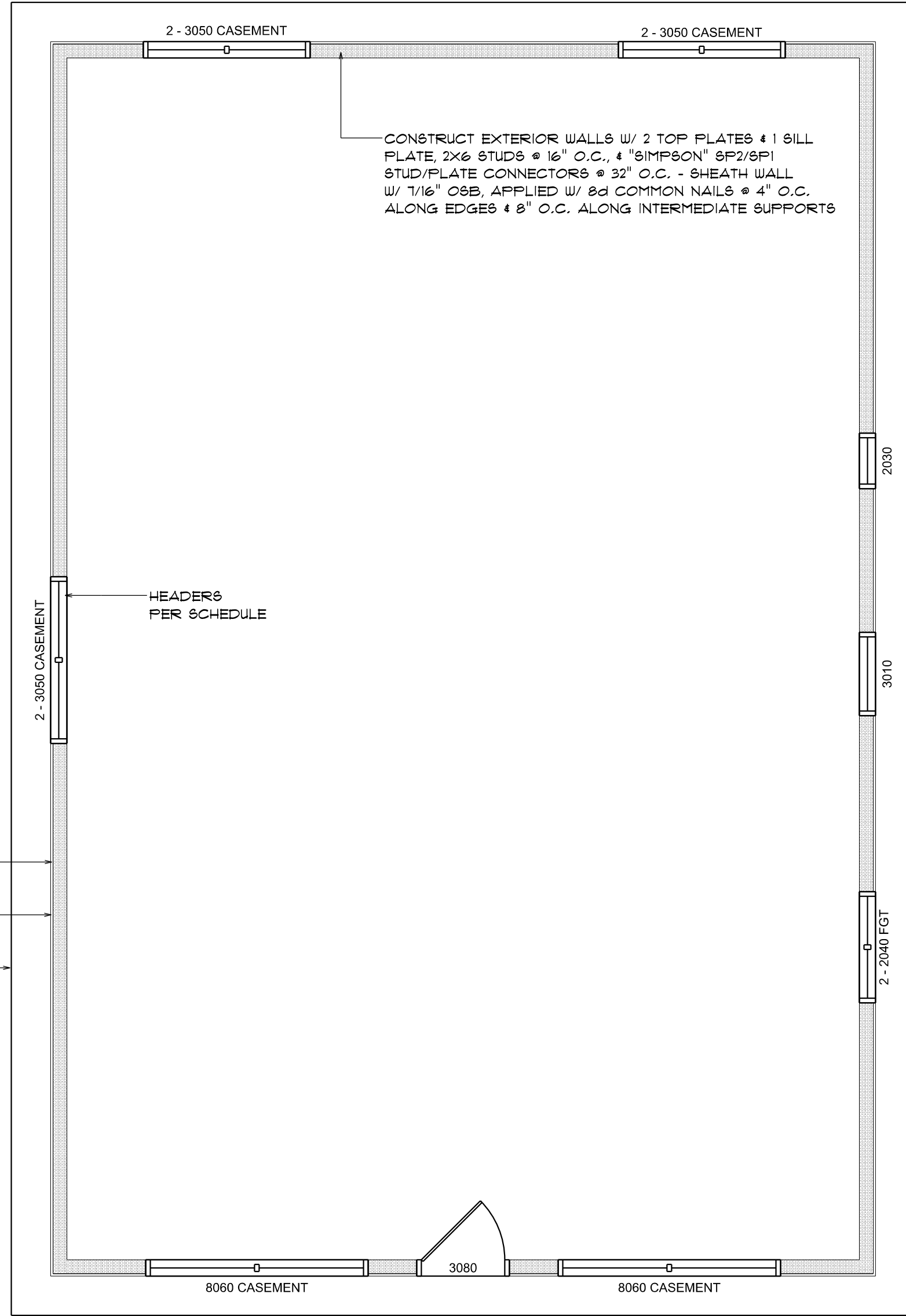
WALL SECTION

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



PORCH SECTION

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



ROOF FRAMING PLAN

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

NOTE!
ANCHOR GIRDER TRUSS(ES) TO HEADER WITH 2 "SIMPSON" LGT(2, 3 OR 4).
ANCHOR HEADER TO KING STUDS W/ 2 "SIMPSON" ST22 EA. END - TYP., T.O.

NOTE!
SHEATH ROOF W/ 1/2" CDX PLYWOOD or 7/16" OSB PLACED W/ LONG DIMENSION PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING W/ 8d NAILS - AS PER DETAIL ON SHEET SD.4

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL PENETRATIONS OF THE TOP PLATE OF ALL LOAD BEARING WALLS SHALL BE SEALED WITH FIRE RETARDANT CAULKING, INCLUDING WIRING, PLUMBING OR OTHER SUCH PENETRATIONS. WALLS OVER 8'-0" TALL SHALL HAVE CONTINUOUS BLOCKING TO LIMIT CAVITY HEIGHT TO 8'-0". PENETRATIONS THROUGH SUCH BLOCKING SHALL BE TREATED IN THE SAME MANNER AS TOP PLATES, NOTED ABOVE

GENERAL TRUSS NOTES:

- TRUSSES SHALL BE DESIGNED BY A LICENSED ENGINEER, AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE "NATIONAL FOREST PRODUCTS ASSOCIATION" MANUAL FOR "STRESS RATED LUMBER AND ITS CONNECTIONS", LATEST Ed., ALONG W/ THE "TRUSS PLATE INSTITUTE" SUGGESTED GUIDELINES FOR TEMPORARY AND PERMANENT BRACING, AND HANDLING OF TRUSSES. TRUSS SHOP DRAWINGS SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, DETS, & TRUSS TO TRUSS CONNECTIONS.
- TRUSS SHOP DRAWINGS SHALL BE SIGNED & SEALED BY THE DESIGNING ENGINEER.
- FOLLOWING DEVELOPMENT OF TRUSS SHOP DRAWINGS, ADJUSTMENTS TO THE ANCHOR REQUIREMENTS MAY BE REQUIRED DEPENDING ON THE ENGINEERED GRAVITY AND WIND UPLIFT REQUIREMENTS OF TRUSSES OR GIRDERS. THE CONTRACTOR SHALL MAKE AVAILABLE A COMPLETE SET OF TRUSS SHOP DRAWINGS TO THE ARCHITECT FOR THE PURPOSE OF REVIEW OF LOADS IMPOSED ON THE BALANCE OF THE STRUCTURE. ANY SUCH REQUIRED CHANGE SHALL BE INCORPORATED INTO THE CONSTRUCTION OF THIS STRUCTURE.

REVISIONS

Dec. 2nd, 2022

CUSTOM HOME FOR:
FUTRAL RESIDENCE

Columbia County, Florida

NICHOLAS PAUL GEISLER
ARCHITECT
1755 NW Brown Rd.
Lakes City, FL 32055



SHEET NUMBER

S.2

OF 4 SHEETS

Nicholas P. Geisler

Digitally signed by Nicholas P. Geisler
DN: cn=Nicholas P. Geisler email= ngeisler47@gmail.com C=US
Date: 2022.12.06 17:10:56 -0500'

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General Roofing NOTES:

DECK REQUIREMENTS:
METAL PANELS MUST BE FASTENED TO MIN. 1/2" CDX PLYWOOD.

SLOPE:
METAL PANELS SHALL BE USED ONLY ON ROOF SLOPES OF 3/12 OR GREATER TO INSURE PROPER DRAINAGE.

CAULKING:
MUST BE APPROVED BY THE MANUFACTURER, BUTYL SEALANT SUPPLIED IN TAPE OR GUN-GRADE FORM.

METAL PANEL:
METAL PANELS SHALL BE
MIN. 26 GAUGE AND COMPLY WITH ASTM A-792 AND D 7-98
EXPOSURE C AS ADOPTED IN SOUTH FLORIDA.

FASTENERS:
FASTENERS FOR METAL PANELS SHALL BE GALVANIZED
WOOD FAST SCREW, MINIMUM OF #3 X 1 1/2" HEX HEAD.

ATTACHMENT:
METAL PANELS SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN 24" O.C. WHERE ROOF IS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF METAL PANELS SHALL CONFORM WITH ASTM E 330 OR F.A. 125.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S
INSTALLATION INSTRUCTIONS.

1. RC-1 - RIDGE CAP
2. ED-1 - EAVE DRIP
3. EF-3 - EAVE FLASHING
4. SW-1 - SIDEWALL FLASHING
5. EW-1 - ENDWALL FLASHING
6. GR-4 - GABLE END OR RAKE BOARD FLASHING
7. TF-1 - TRANSITION FLASHING
8. PV-2 - PREFORMED VALLEY FLASHING
9. BUTYL TAPE
10. SEALANT TAPE
11. PIPEBOOT

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.

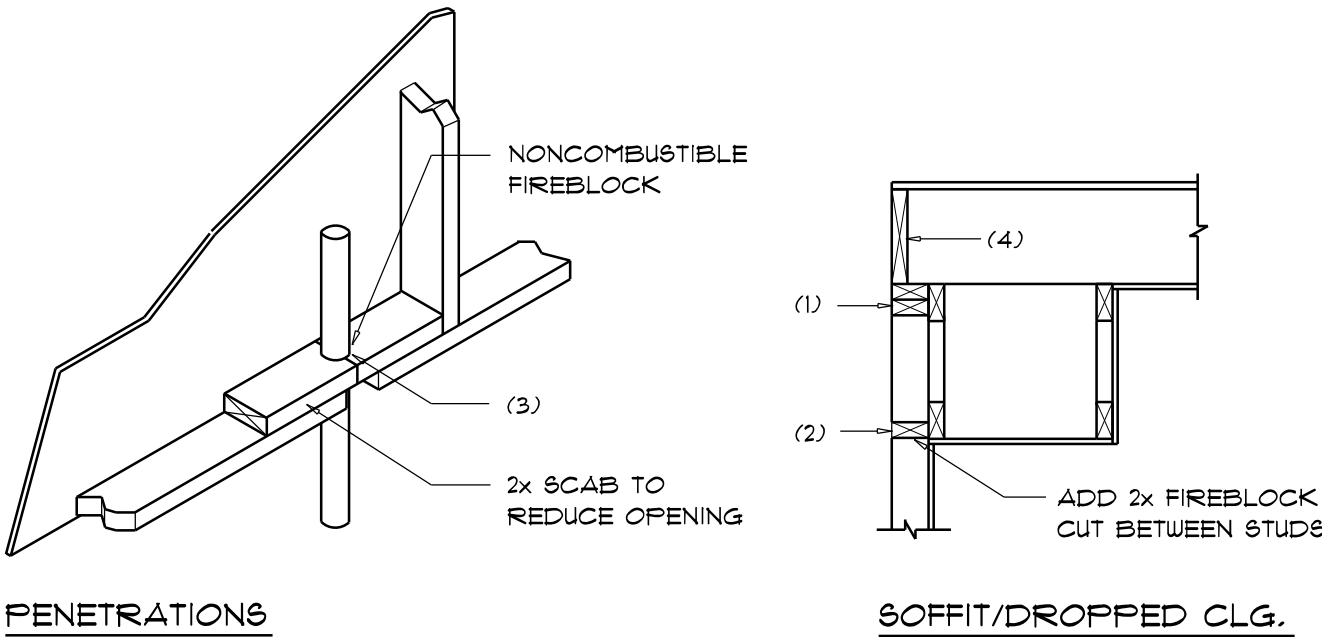
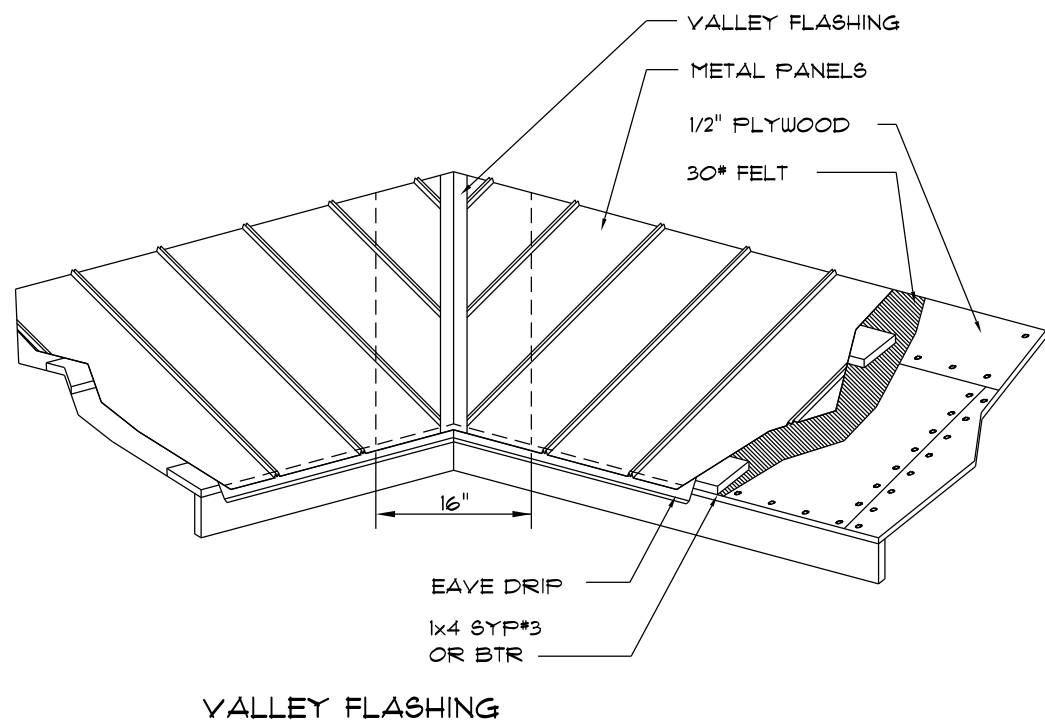
2. STARTING AT THE EAVE, 3/8 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

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 W/ MFGR'S
INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION
RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL
SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 71 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 W/ MANUFACTURER'S
INSTALLATION INSTRUCTIONS BEFORE APPLYING ROOFING MATERIAL. VALLEY
LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:
1. OPEN VALLEYS LINED WITH METAL: THE VALLEY LINING SHALL BE
AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS
IN FBC TABLE 1501.3.3.2.
2. OPEN VALLEYS: VALLEY LINING OF TWO PLIES OF MINERAL SURFACE
ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 19
INCHES AND THE TOP LAYER A MINIMUM OF 3/8 INCHES WIDE.
3. 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 3/8 INCHES WIDE AND
COMPLYING WITH ASTM D 224.
3. SPECIALTY UNDERLAYMENT AT LEAST 3/8 INCHES WIDE & COMPLYING
WITH ASTM D 1910.

5M-RIB METAL ROOFING PANELS ALTERNATE FASTENER SCHEDULE FOR VARIOUS WIND VELOCITIES									
MANUFACTURER'S RECOMMENDED FASTENER SCHEDULE FOR BUILDINGS W/ 35' MEAN ROOF HEIGHT, MIN. 3/12 PITCH BASED ON ASCE 7-98, EXPOSURE "C"									
ROOF ZONE	FASTENER TYPE	FASTENER SIZE	PLACEMENT TO	100 - 110 O/C SPACING	TRIM	120 - 130 O/C SPACING	TRIM	140 - 150 O/C SPACING	TRIM
1	WD. SCREW	#9 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	12"
	MTL. SCR.	#12 X 1" #14 X 1/8"	< 18 GA > 18 GA	36"	18"	24"	12"	24"	12"
2 & 3	WD. SCREW	#9 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	8"
	MTL. SCR.	#12 X 1" #14 X 1/8"	< 18 GA > 18 GA	36"	18"	24"	12"	24"	8"



PENETRATIONS

SOFFIT/DROPPED CLG.

FIREBLOCKING NOTES:

- FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
 2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
 3. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL MULTIFLEX SEALANT"
 4. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS. FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

Fire Stopping DETAILS

SCALE: NONE

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TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4
4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
7. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3
8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4

9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6
12. ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT. FBC 1816.1.7
13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1816.1.7
14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

FLORIDA BUILDING CODE

Compliance Summary

TYPE OF CONSTRUCTION

Roof: Gable Construction, Wood Trusses @ 24" O
Walls: 2x6 Wood Studs @ 16" O.C.
Floor: Floor Trusses by Others
Foundation: Raised Pier Foundation

ROOF DECKING

Material: 1/2" CD Plywood or 7/16" O.S.B.
Sheet Size: 48"x36" Sheets Perpendicular to Roof Framing
Fasteners: .113 RING SHANKED Nails per schedule on sheet 5.4

SHEARWALLS

Material: 1/2" CD Plywood or 7/16" O.S.B.
Sheet Size: 48"x36" Sheets Placed Vertical
Fasteners: .113 RING SHANKED Nails @ 4" O.C. Edges & 8" O.C. Interior
Dragstrut: Double Top Plate (S.T.P.) W/16d Nails @ 12" O.C.
Wall Studs: 2x6 Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS

Truss Anchors: SIMPSON H2.5a @ Ea. Truss End (Typ. U.O.N.)
Wall Tension: Wall Sheathing Nailing is Adequate - 8d @ 4" O.C. Top & Bot.
Anchor Bolts: 1/2" A307 Bolts @ 48" O.C. - 1st Bolt 6' from corner
Corner Hold-down Devices: (1) HD5a @ each corner
Forch Column to Beam Connector: Simpson MSTA20 (2 ea. side) or Simpson EPC66 or 2 - 5/8" thru bolts

FOOTINGS AND FOUNDATIONS

SEE FLOOR FRAMING & FOUNDATION PLAN 5.1

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.
2. WIND LOAD CRITERIA: RISK CATEGORY: 2, EXPOSURE: "C"

BASED ON ANSI/ASCE 7-16, 2020 FBC 1609-A WIND VELOCITY: V_{ULT} = 130 MPH
V_{ASCE} = 128 MPH
3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: 20 PSF
SUPERIMPOSED LIVE LOADS: 20 PSF
4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: 25 PSF
SUPERIMPOSED LIVE LOADS:
RESIDENTIAL 40 PSF
BALCONIES 60 PSF
5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

		45° 27° 0°		BUILDING COMPONENTS & CLADDING LOADS MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B" ROOF ANGLE 1° TO 27°			
		W	E	VULT	VULT	VULT	VULT
		10	10	120 MPH	120 MPH	130 MPH	140 MPH
ROOF 1° TO 27°	1	10	10	12.0 / -19.9	14.9 / -23.1	17.5 / -27.8	20.3 / -32.3
	1	20	1	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4
	1	30	1	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2
	2	10	2	12.5 / -34.1	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2
	2	20	2	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6	18.5 / -51.1
	2	30	2	10.0 / -28.2	11.9 / -33.6	13.9 / -39.4	16.1 / -45.1
WALL	3	10	3	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1
	3	20	3	11.4 / -47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.1
	3	30	3	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
	4	10	4	21.8 / -23.6	25.9 / -34.1	30.4 / -33.0	35.3 / -38.2
	4	20	4	20.8 / -22.6	24.1 / -26.9	28.0 / -31.6	33.1 / -36.1
	4	30	4	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6
5	10	5	5	21.8 / -29.1	25.9 / -34.1	30.4 / -40.1	35.3 / -47.2
	20	5	5	20.8 / -27.2	24.1 / -32.4	28.0 / -38.0	33.1 / -44.0
	30	5	5	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS
FOR BUILDING COMPONENTS & CLADDING

BUILDING HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.41
20	1.00	1.29	1.53
25	1.00	1.35	1.61
30	1.00	1.40	1.66



REVISIONS
Dec. 2nd, 2022

CUSTOM HOME FOR:
FUTRAL RESIDENCE
Columbia County, Florida

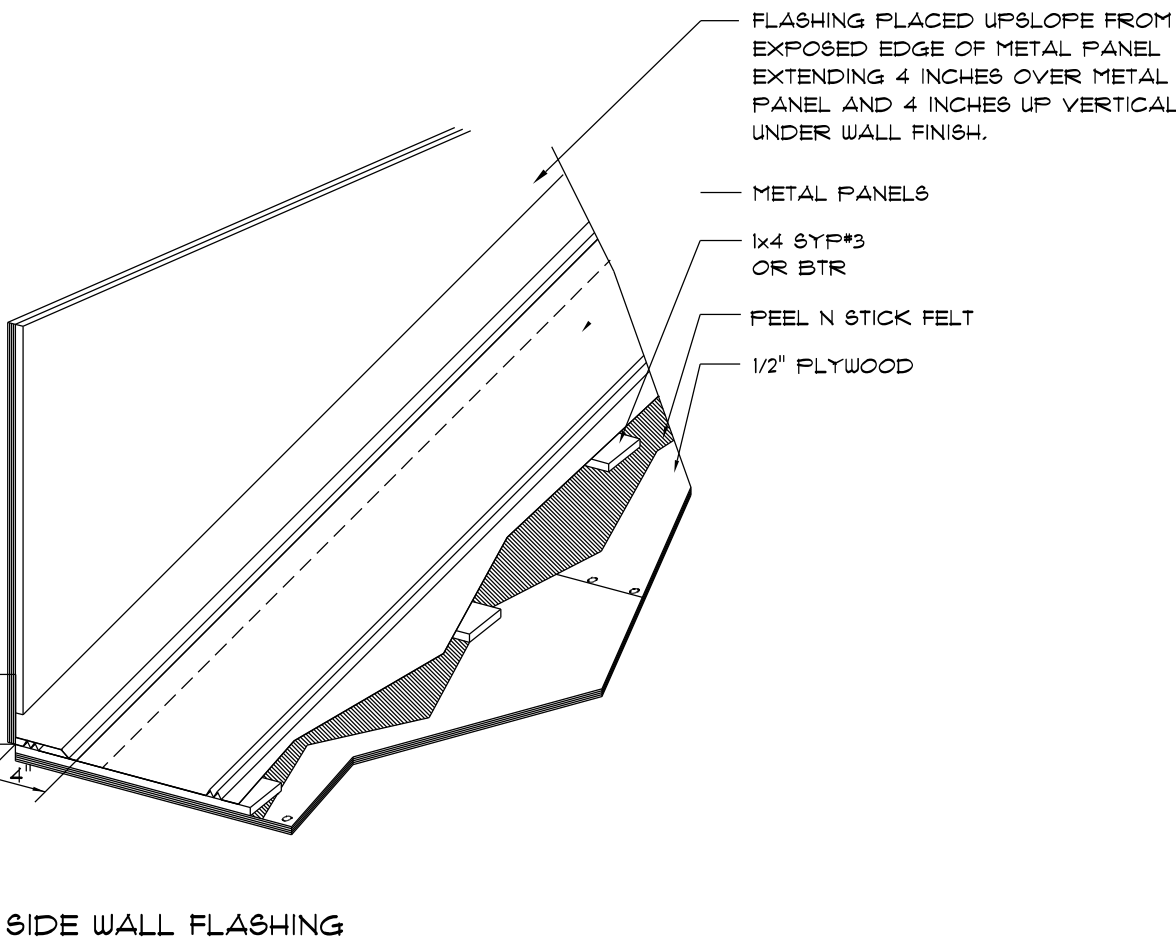
NICHOLAS P. GEISLER
ARCHITECT
1755 NW Brown Rd.
Lakes City, FL 32055

SHEET NUMBER

S.3

OF 4 SHEETS

Nicholas P. Geisler
Digitally signed by Nicholas P. Geisler
DN: cn=Nicholas P. Geisler email = ngeisler4@gmail.com c = US
Date: 2022.12.06 17:10:56 -0500'
AR0007005

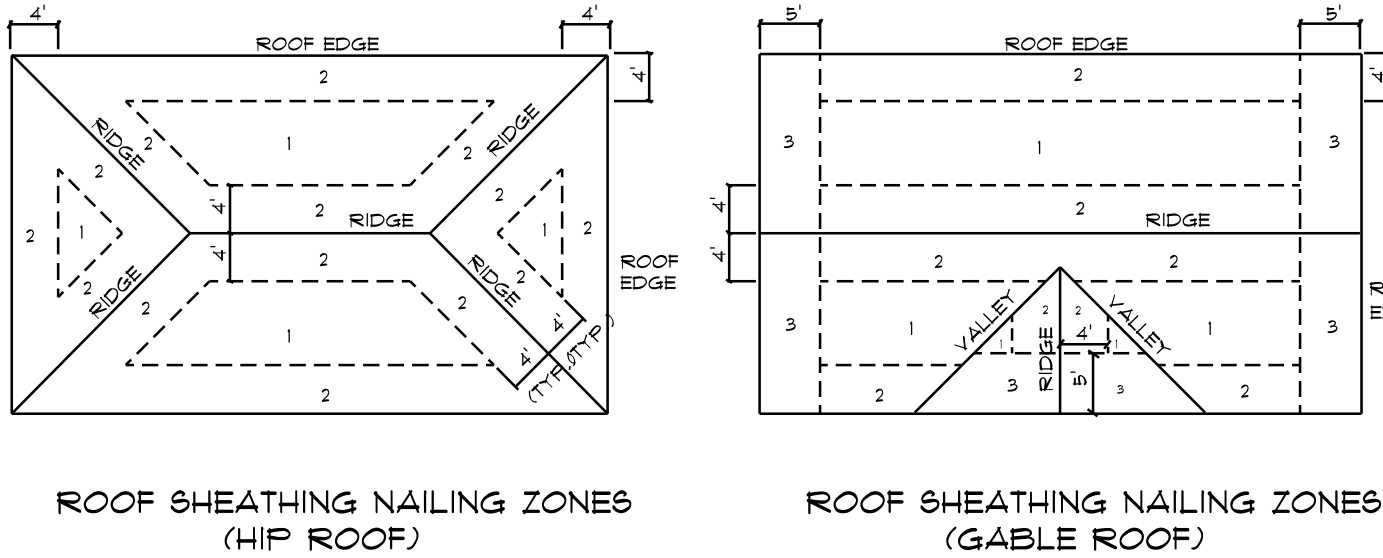


SIDE WALL FLASHING

METAL ROOFING. DET.

SCALE: NONE

SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	7/16" O.S.B. OR 15/32 CDX	.113 RING SHANKED NAILS	8 in. o.c. EDGE 12 in. o.c. FIELD
2			6 in. o.c. EDGE 6 in. o.c. FIELD
3			4 in. o.c. * GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGE 6 in. o.c. FIELD



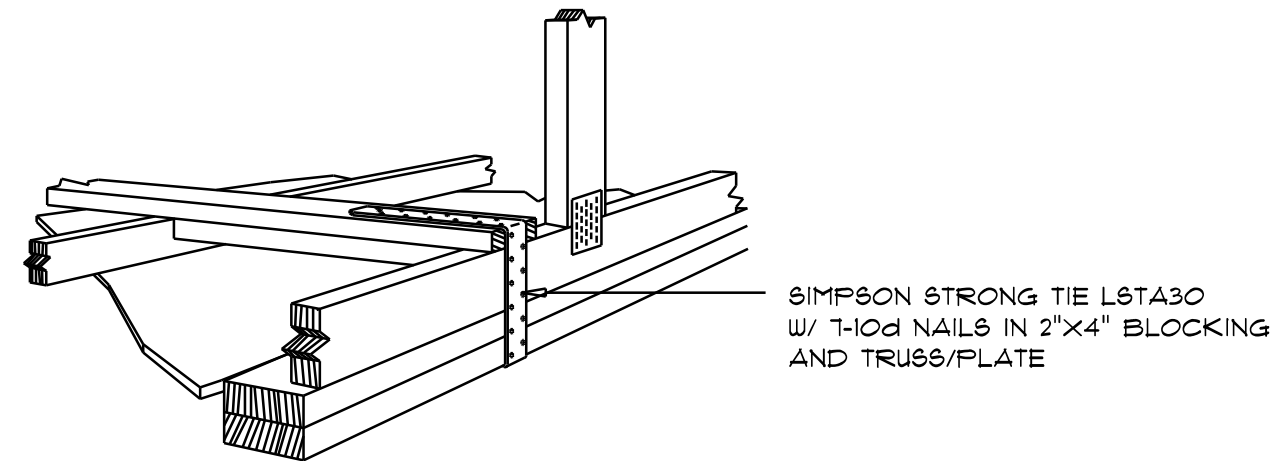
ROOF SHEATHING NAILING ZONES
(HIP ROOF)

ROOF SHEATHING NAILING ZONES
(GABLE ROOF)

Plywood Nail Pattern DET.

SCALE: NONE

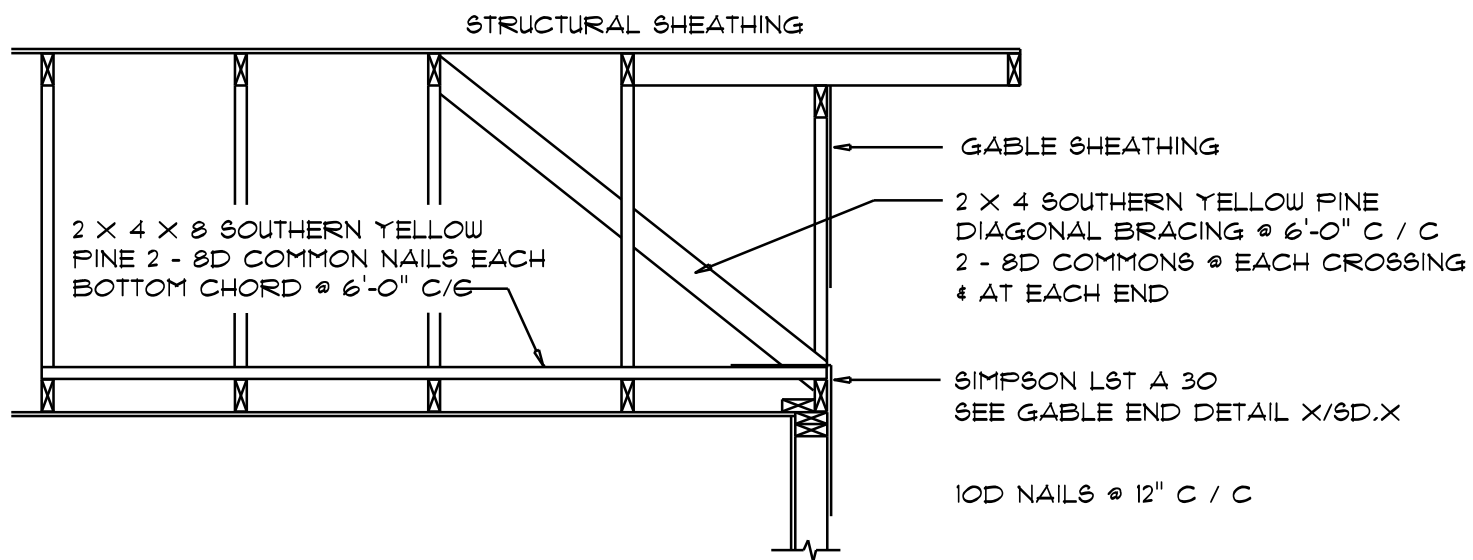
B



GABLE END GYPSUM DIAPHRAGM
HOLDOWN CONNECTOR

SCALE: NONE

A

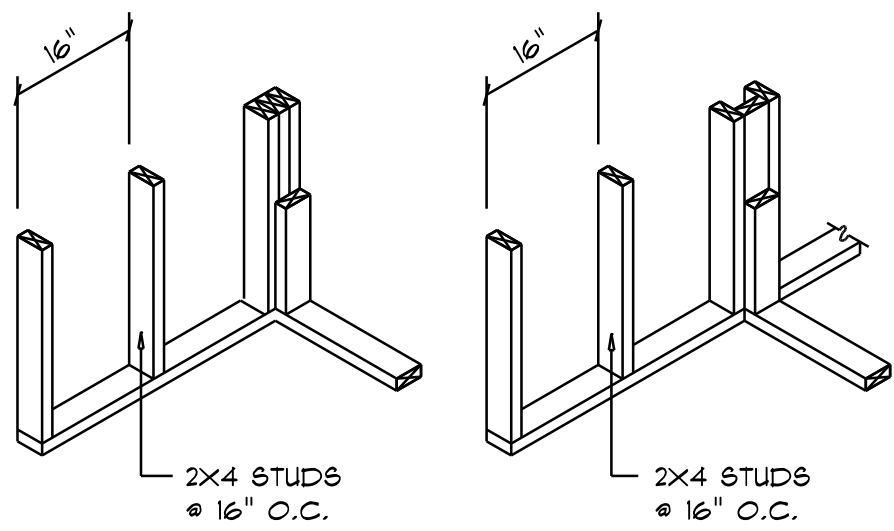


END WALL BRACING FOR
CEILING DIAPHRAGM

NTS (ALTERNATIVE TO BALLOON FRAMING)

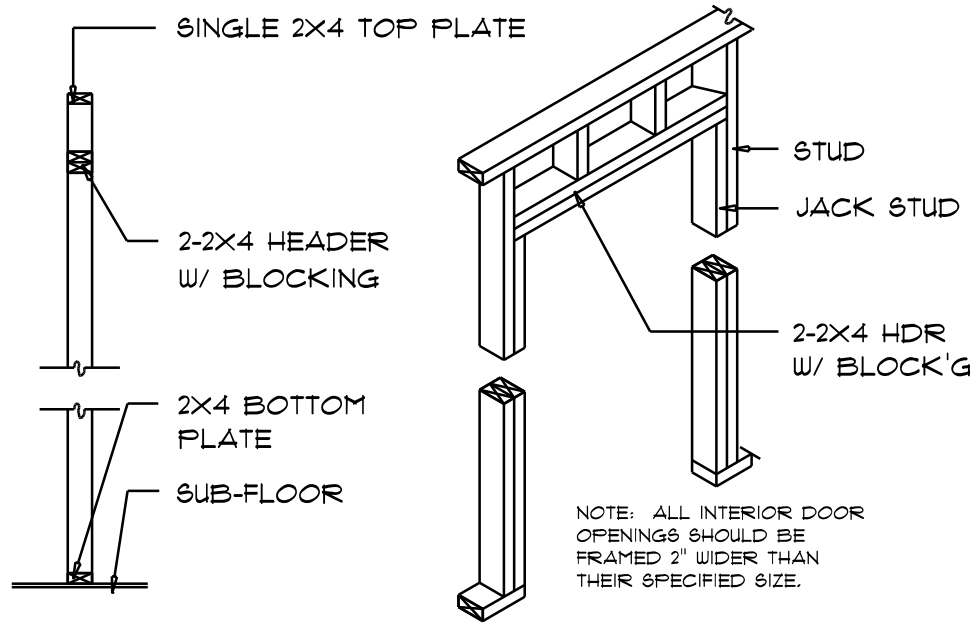
NOTE: ALL WOOD TO BE NUMBER 2 GRADE SOUTHERN YELLOW PINE

E

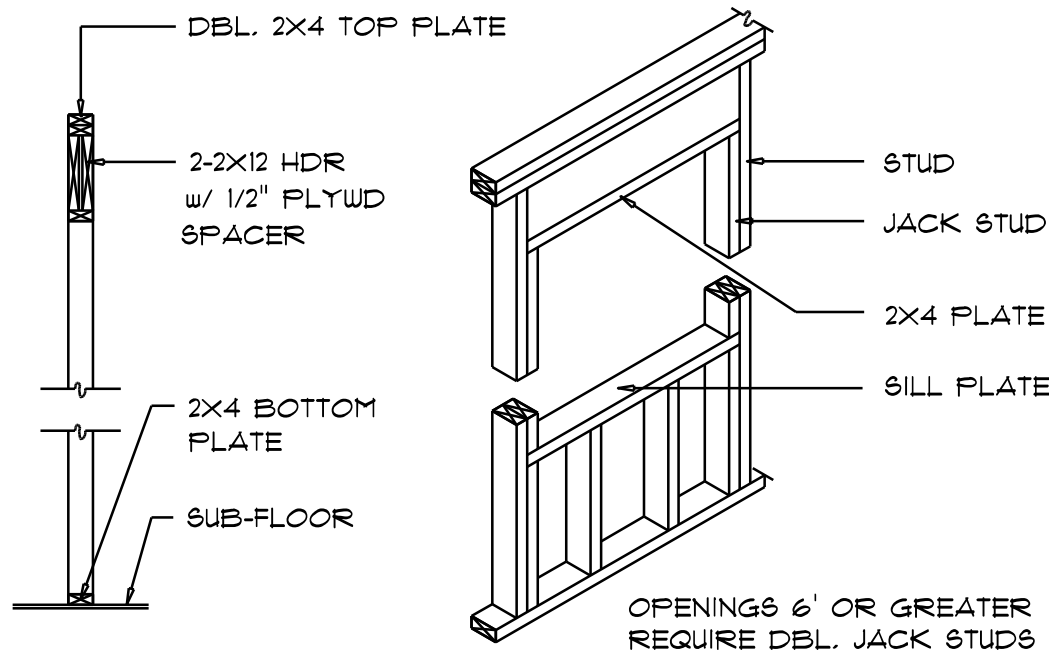


WALL CORNER

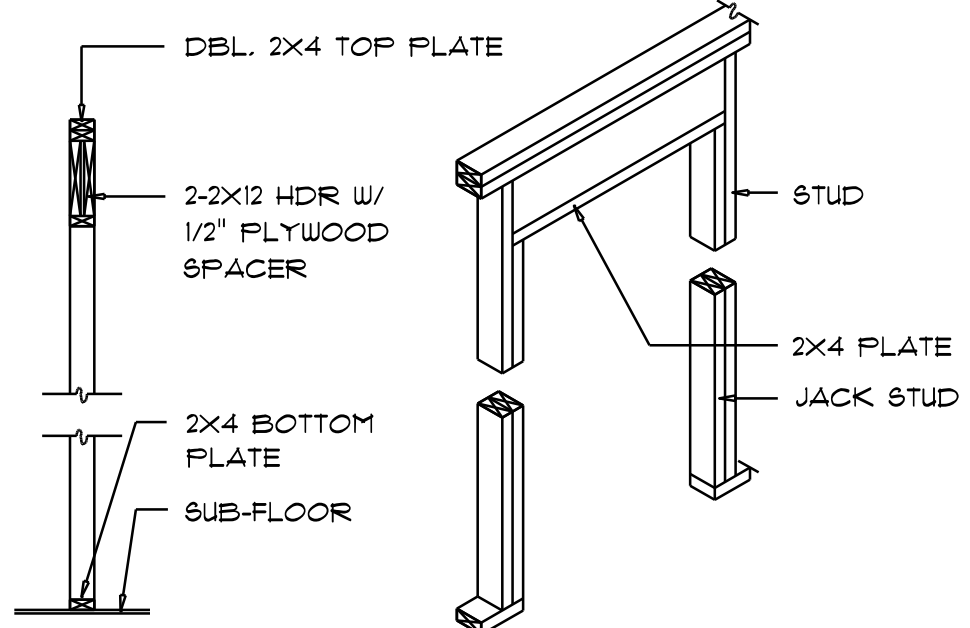
WALL INTERSECTION



NON-BEARING WALL HEADER



TYPICAL WINDOW HEADER

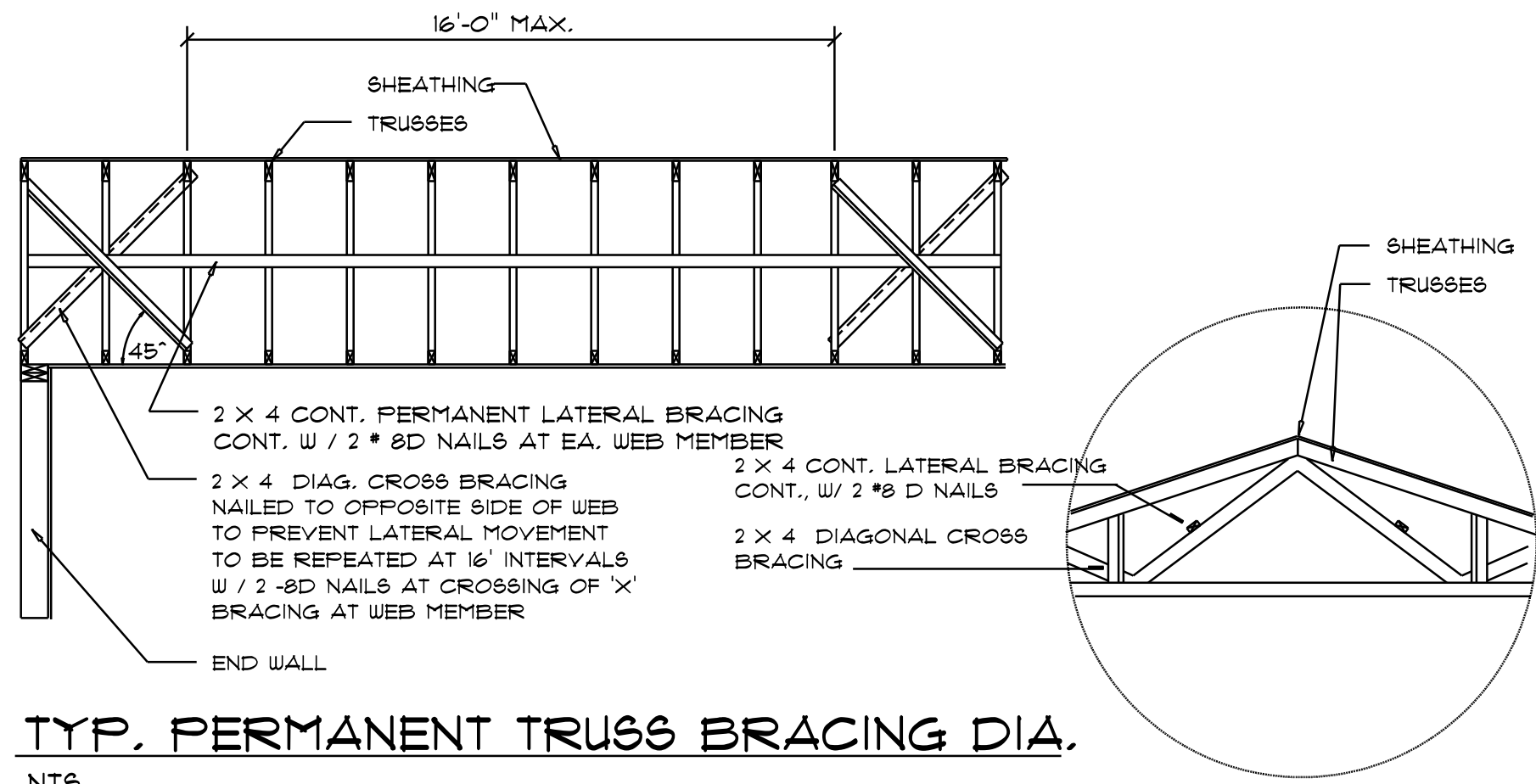


BEARING WALL HEADER

Wall Framing/Header DETAILS

SCALE: NONE

H



TYP. PERMANENT TRUSS BRACING DIA.

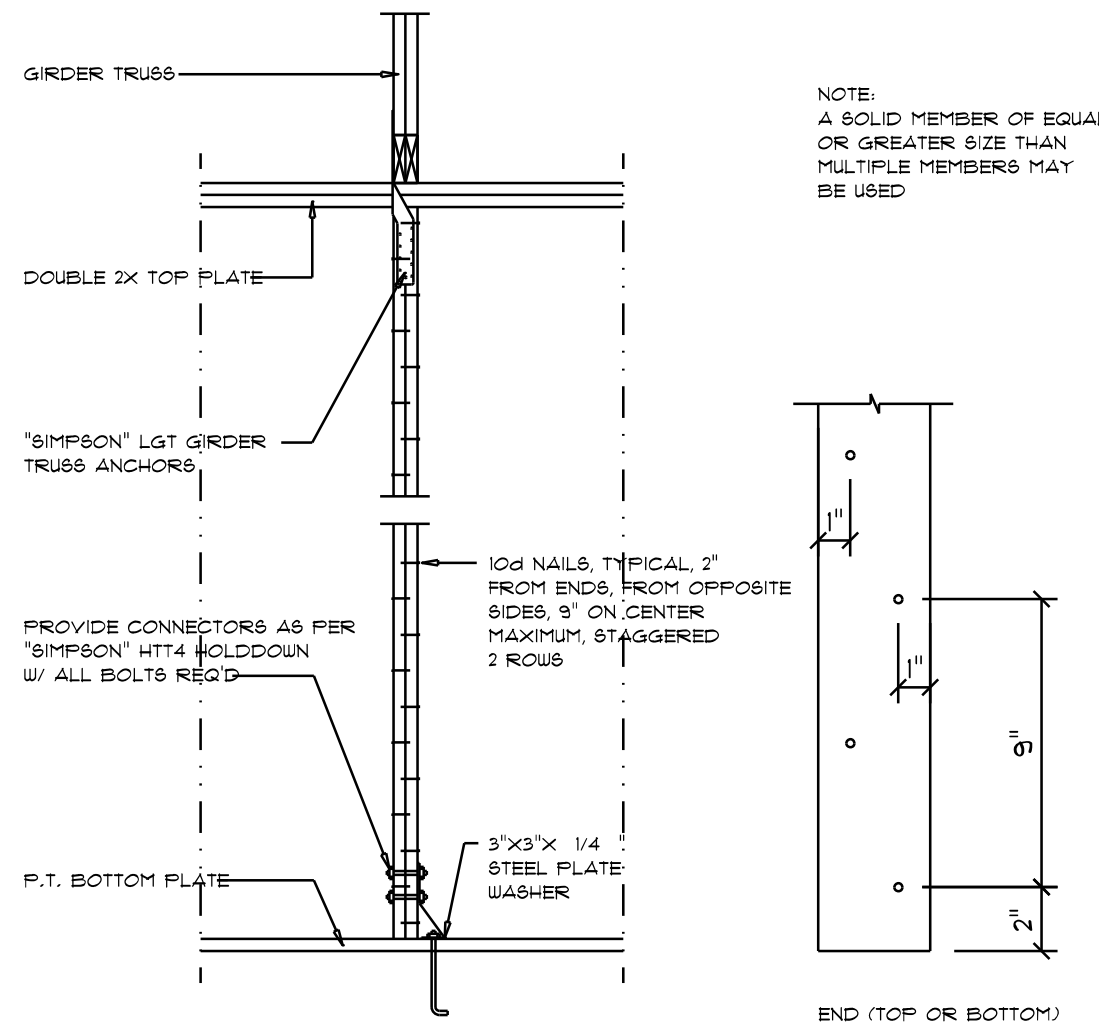
NTS

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

Truss Bracing DETAILS

SCALE: AS NOTED

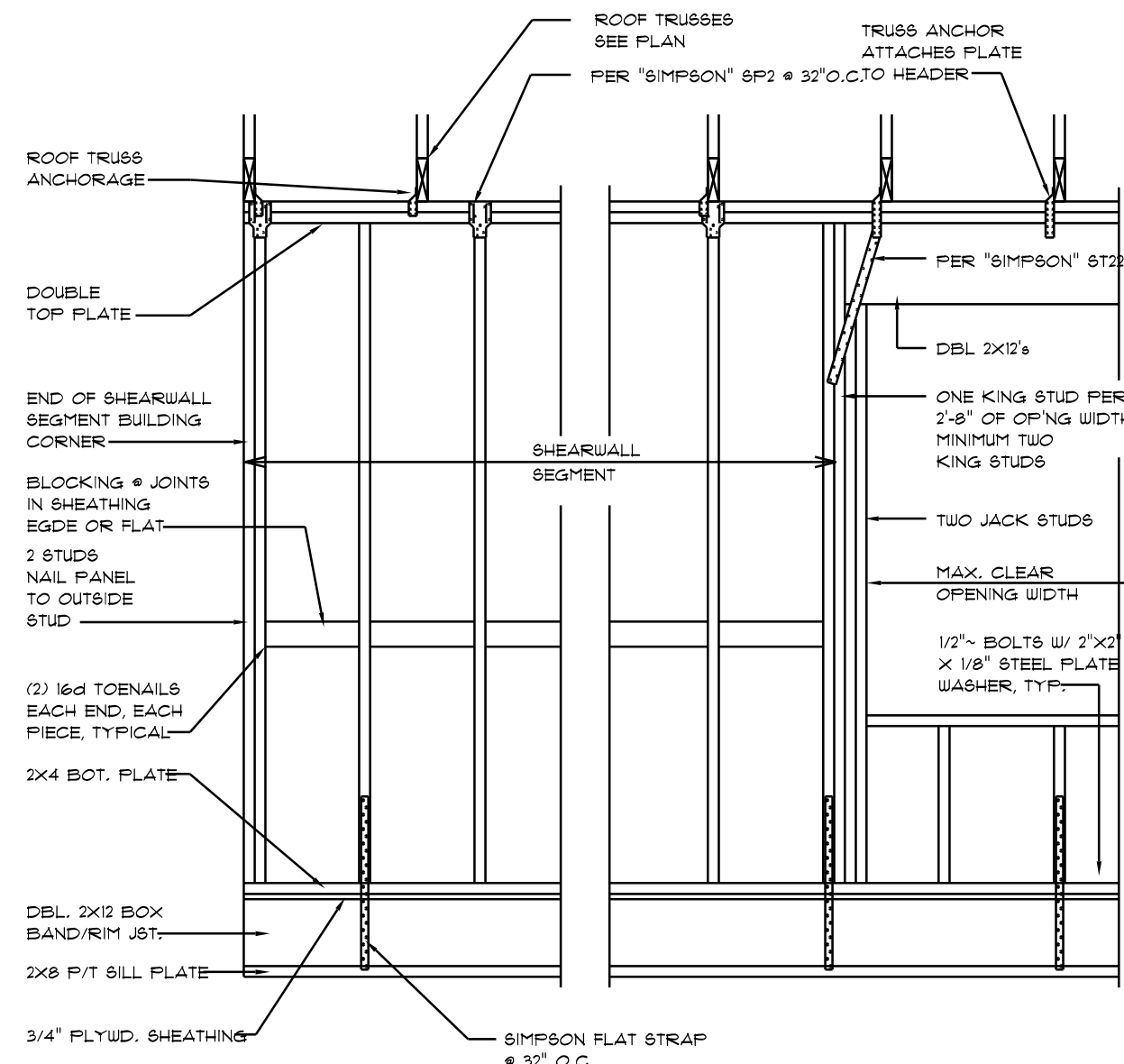
B



Girder Truss Column DET.

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

G



- SHEARWALL NOTES:**
- ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS
 - THE WALL SHALL BE ENTIRELY SHEATHED WITH 1/8" O.B.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS
 - ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER CORNER OR ALONG BLOCKING
 - NAIL SPACING SHALL BE 6" C 12" O.C. IN THE FIELD
 - TYPE 2 SHEARWALLS ARE DEFINED AS IT CONTAINS MAXIMUM HEIGHT 5/6 TIMES THE WALL HEIGHT. BETWEEN OPENINGS SHALL BE 8'-0" (WALLS 7'-3")

OPENING WIDTH	SILL PLATE	
UP TO 6'-0"	(1) 2x4 OR (1) 2x6	1
3' 6" TO 9'-0"	(3) 2x4 OR (1) 2x6	2
3' 9" TO 12'-0"	(5) 2x4 OR (2) 2x6	3

Shear Wall DETAILS

SCALE: NONE

J

REVISIONS
Dec. 2nd, 2022

CUSTOM HOME FOR:
FUTRAL RESIDENCE
Columbia County, Florida

NICHOLAS PAUL GEISLER
ARCHITECT
1755 NW Brown Rd.
Lakes City, FL 32055

SHEET NUMBER
S.4
OF 4 SHEETS

Nicholas P. Geisler

Digitally signed by Nicholas P. Geisler
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Date: 2022.12.06 17:10:56 -05'00'

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