

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 G.D. 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<sub>c</sub> = 3000 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD PUMP MIX F<sub>c</sub> = 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<sub>m</sub> = 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 A325 / GRADE 1 OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.
11. 2x4 P/T WOOD SILL, CONT., ALL AROUND, W/ 5/8" A.B. W/ 3" SQ. X 1/4" PLATE WASHERS WITHIN 6" FROM EACH CORNER, E.A. WAY, 4 WITHIN 12"6" FROM ALL WALL OPENINGS / ENDS - 12" A.B. W/ 2" SQ. WASHERS ALONG EACH RUN @ 48" O.C. MAX. - ALL ANCHOR BOLTS SHALL HAVE A MINIMUM OF 8" EMBEDMENT INTO THE CONCRETE.

Technical drawing showing a cross-section of a column and footing assembly. The column is 18" wide and 8" thick. The footing is 20" wide and 3' high. The column is reinforced with 8" CMU bond beam w/ 2 #5 bar top & 3 OT. cont./25" min. LAF. The footing is reinforced with 2-#5 bars continuous on wire or plastic chairs. The footing is 2500 PSI conc. and has #5 dowels @ 36" O.C. max. The column has #5 ELLS X 18" X 18" @ 48" O.C. max. The footing has 7" wide sections on either side of the column.

Dimensions and specifications:

- Column width: 18"
- Column thickness: 8" CMU
- Footing width: 20"
- Footing height: 3'
- Footing reinforcement: 2-#5 BARS CONTINUOUS ON WIRE OR PLASTIC CHAIRS
- Footing concrete: 2500 PSI CONC.
- Footing dowels: #5 DOWELS @ 36" O.C. MAX.
- Column reinforcement: #5 ELLS X 18" X 18" @ 48" O.C. MAX.
- Column bond beam: 8" CMU BOND BEAM W/ 2 #5 BAR TOP & 3 OT. CONT./25" MIN. LAF.

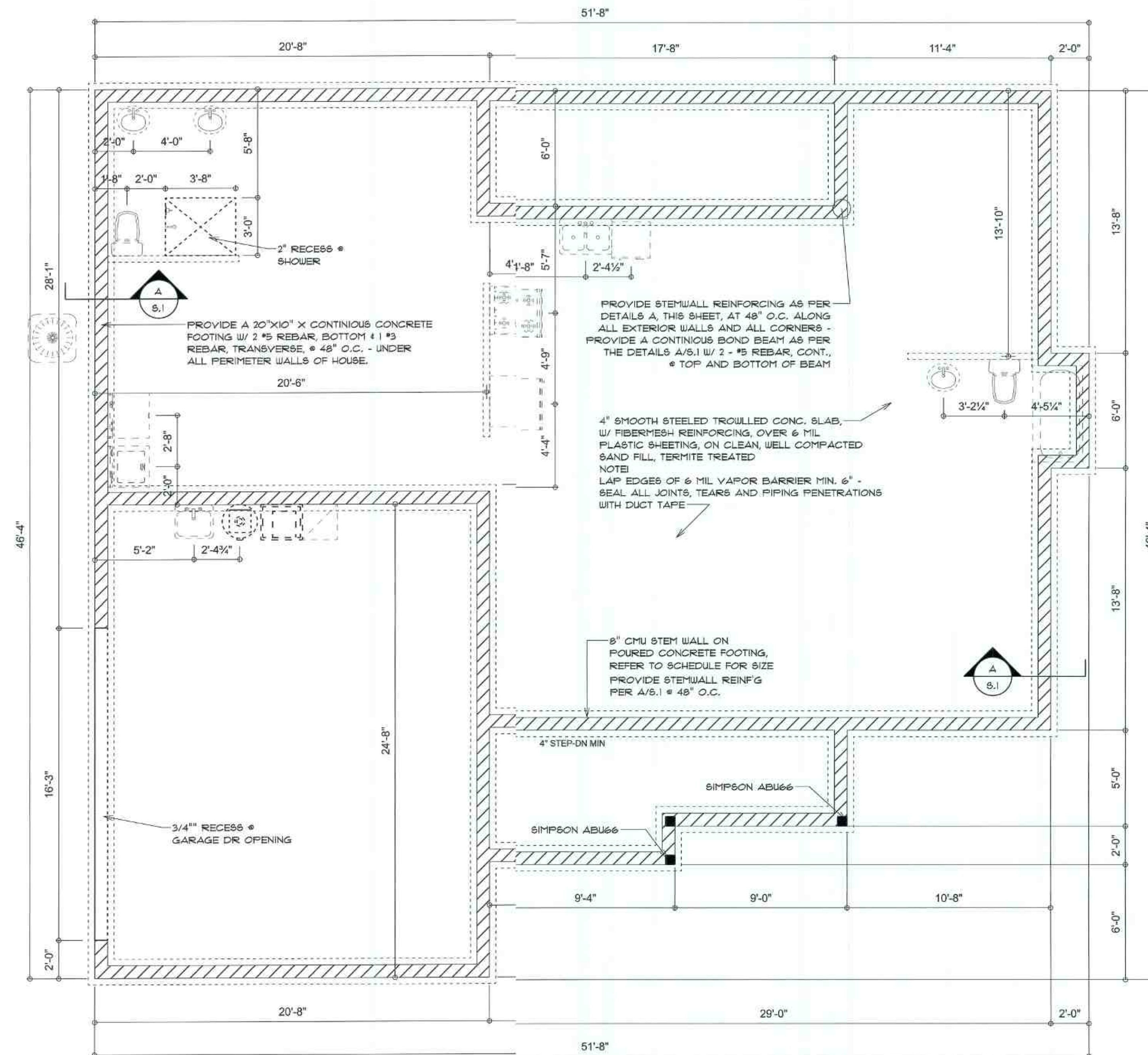
SCALE: 3/4" = 1'-0"

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

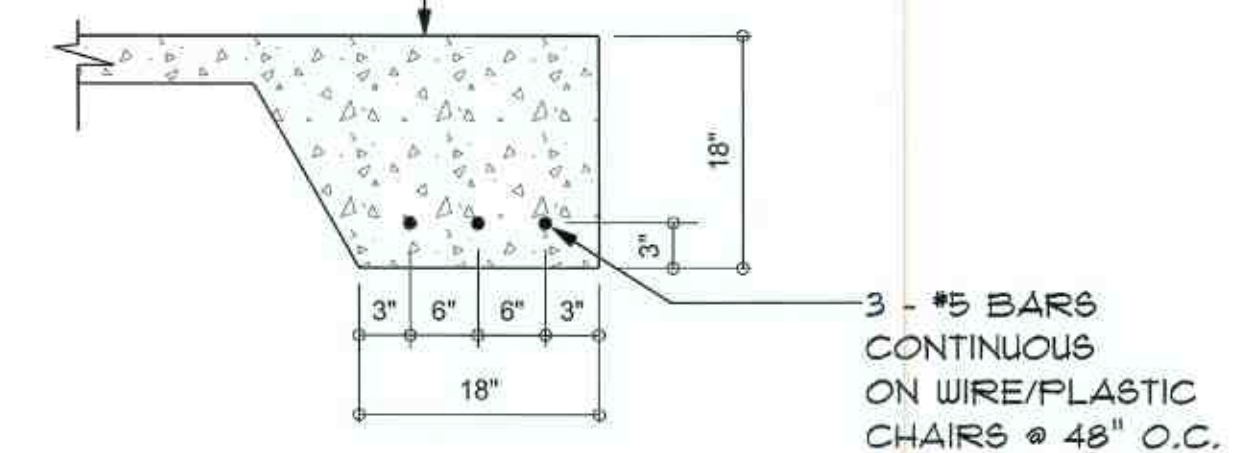
NOTE:  
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP  
DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL  
PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONTR'  
SHALL PROVIDE 1 COPY OF AS-BUILT DUGS TO OWNER AND  
1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:  
ADDED FILL SHALL BE APPLIED IN 8" LIFTS -  
EA. LIFT SHALL BE COMPACTED TO 98% DRY  
COMPACTION PER THE "MODIFIED PROCTOR"  
METHOD.

NOTE:  
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP  
DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL  
DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING  
REPORT - CONTR. SHALL PROVIDE 1 COPY OF AS-BUILT DWGS  
TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.



—4" THK. 3000 PSI CONCRETE SLAB  
W/ FIBERMESH CONCRETE ADDITIVE.



SCALE: not to scale

REVISIONS
APRIL 9th, 2020

CARTER RESIDENCE  
COLUMBIA COUNTY, FLORIDA

**NICHOLAS PAUL  
GEISLER  
ARCHITECT**

■ ■ ■ ■ ■  
1188 NW Brown Rd.  
Lakeland, FL 32056

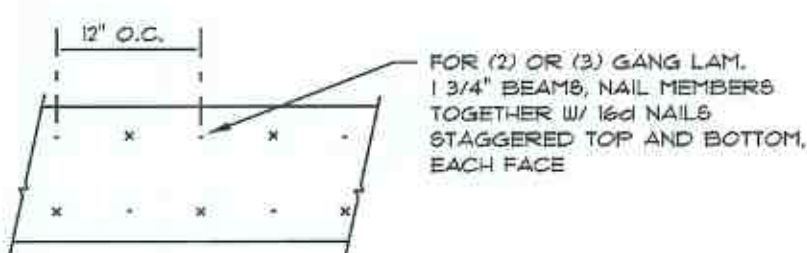
SHEETNUMBER

S.1

OF 4 SHEETS

AR0007005






MULTIPLE GANG LAM. DETAIL

### B/U Beam DETAILS

SCALE: NONE



GENERAL TRUSS NOTES:

1. 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 EDITION, ALONG WITH THE TRUSS PLATE INSTITUTE'S SUGGESTED GUIDELINES. TENSILE MEMBER DESIGN SHALL BE BASED ON THE STRESS RATED TRUSS SHOP DRAWINGS SHALL INCLUDE TRUSS DESIGN, PLACEMENT PLANS, DETAILS, 4 TRUSS TO TRUSS CONNECTIONS.
2. TRUSS SHOP DRAWINGS SHALL BE SIGNED & SEALED BY THE DESIGNING ENGINEER.
3. FOLLOWING DEVELOPMENT OF TRUSS SHOP DRAWINGS, ADJUSTMENTS TO THE ANCHOR REQUIREMENTS MAY BE REQUIRED DEPENDING ON THE ENGINEERED GRAVITY AND WIND LOADS. THEREFORE, THE ARCHITECT SHALL PROVIDE THE CONTRACT DOCUMENTS THAT WILL 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 REQUIRED CHANGE SHALL BE INCORPORATED INTO THE CONSTRUCTION OF THIS STRUCTURE.

## 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 NILED WITH 10d x 3" NAIL IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON 18TA15 TOP AND 1 - SIMPSON 9FH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND FULL HEIGHT STUD EACH SIDE OF OPENING

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

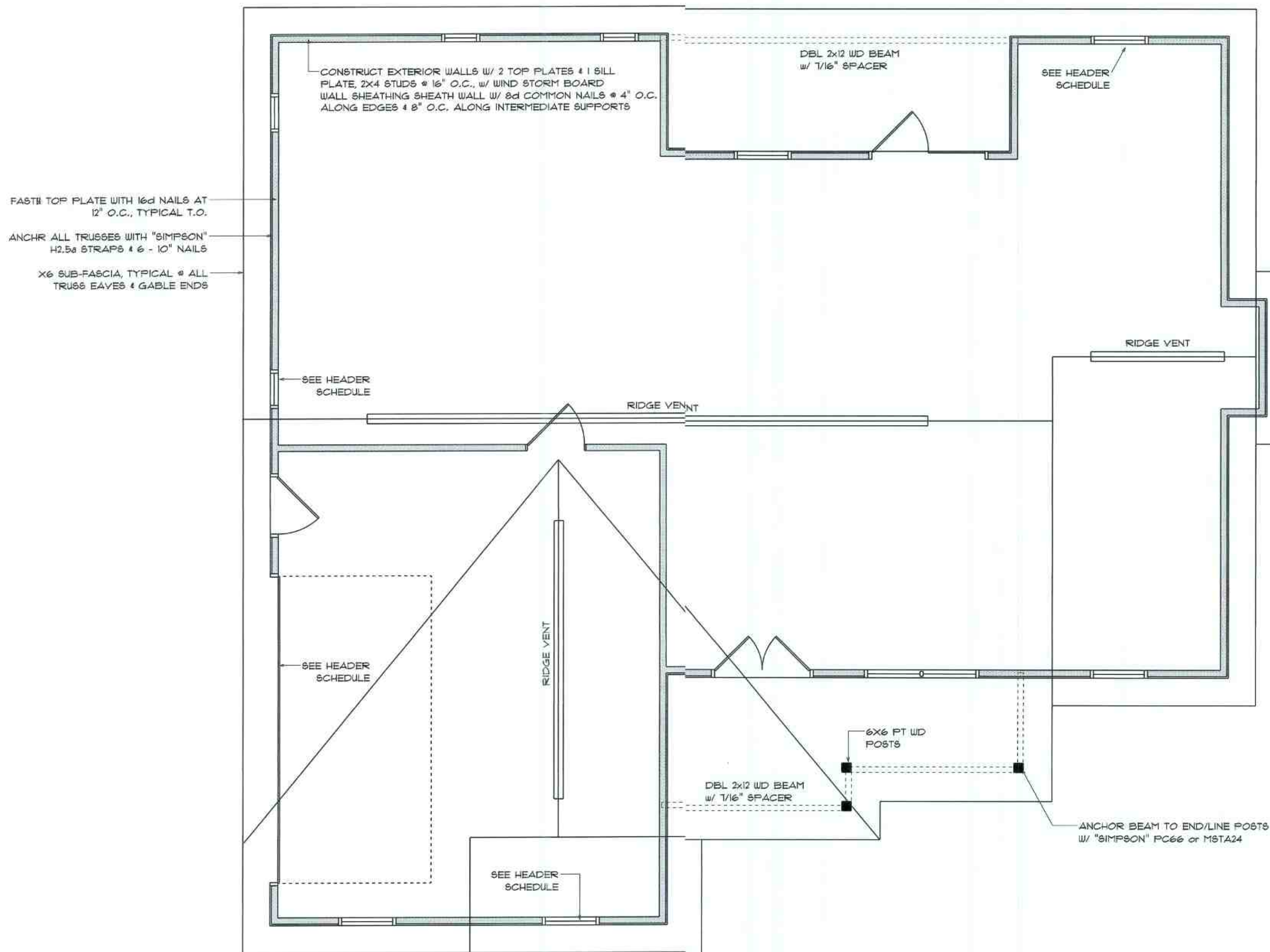
DOUBLE 2x12 No.2 SOUTHERN PINE WITH 1/2" OSB SOLID CONTINUOUS SPACER GLUED AND NILED WITH 10d x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 1 - SIMPSON 18T424 TOP AND 2 - SIMPSON 5PH4R BOTTOM EACH SIDE OF OPENING WITH 1 - HEADER STUD AND FULL HEIGHT STUDS EACH SIDE OF OPENING

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

DOUBLE 2x12 No.2 SOUTHERN PINE WITH 1/2" O8B SOLID CONTINUOUS SPACER GLUED AND NILED WITH 10d x 0.125" x 3" NAILS IN 2 ROWS @ 12" O.C. STAGGERED EACH SIDE WITH 3 - SIMPSON161A1B EACH SIDE OF OPENING WITH 2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING

16'-0" GARAGE DOOR OPENINGS

2 PLY 1/4" X 11 7/8" 2.0E MICROLAMM 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 M8TA15 EACH SIDE OF OPENING WITH  
2 - HEADER STUDS AND 3 FULL HEIGHT STUDS EACH SIDE OF OPENING



### ROOF FRAMING PLAN

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

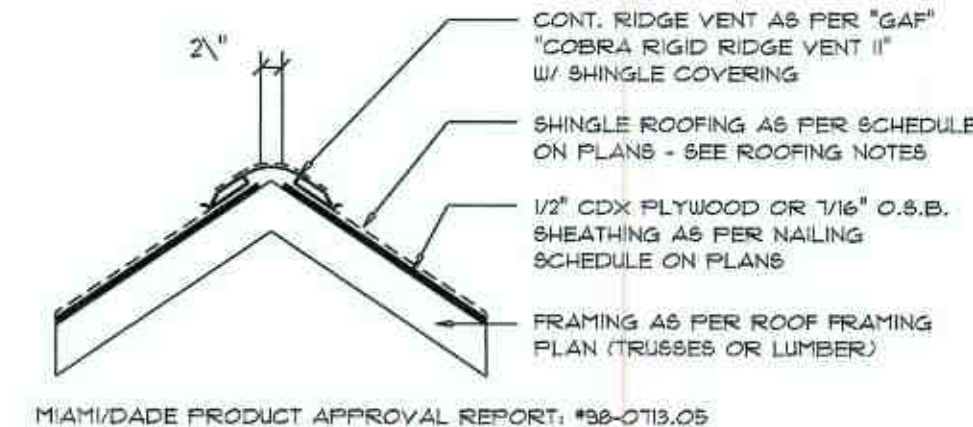
### ROOF PLAN NOTES

- |     |   |
|-----|---|
| R-1 | SEE ELEVATIONS FOR ROOF PITCH   |
| R-2 | ALL OVERHANG 18" (12" on gable/s)<br>UNLESS OTHERWISE NOTED                 |
| R-3 | PROVIDE ATTIC VENTILATION IN AC-<br>CORDANCE WITH SCHEDULE ON SD.3          |
| R-4 | SEE EXTERIOR ELEVATIONS AND FLOOR<br>PLANS TO VERIFY PLATE AND HEEL HEIGHTS |
| R-5 | MOVE ALL VENTS AND OTHER<br>ROOF PENETRATIONS TO REAR                       |

WOOD STRUCTURAL NOTES

1. 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 GUIDE LINES OF THE "TRUSS PLATE INSTITUTE".
2. ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER, DRAWN, CALCULATED AND SEALED BY SAME. TRUSS DESIGN SHALL INCLUDE ALL NECESSARY RIGID TRUSS DETAIL, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE "TRUSS PLATE INSTITUTE".
3. WOOD STUDS IN EXTERIOR WALLS & INTERIOR BEARING WALLS SHALL BE NOT LESS THAN No.2 HEM-FIR OR BETTER.
4. 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.

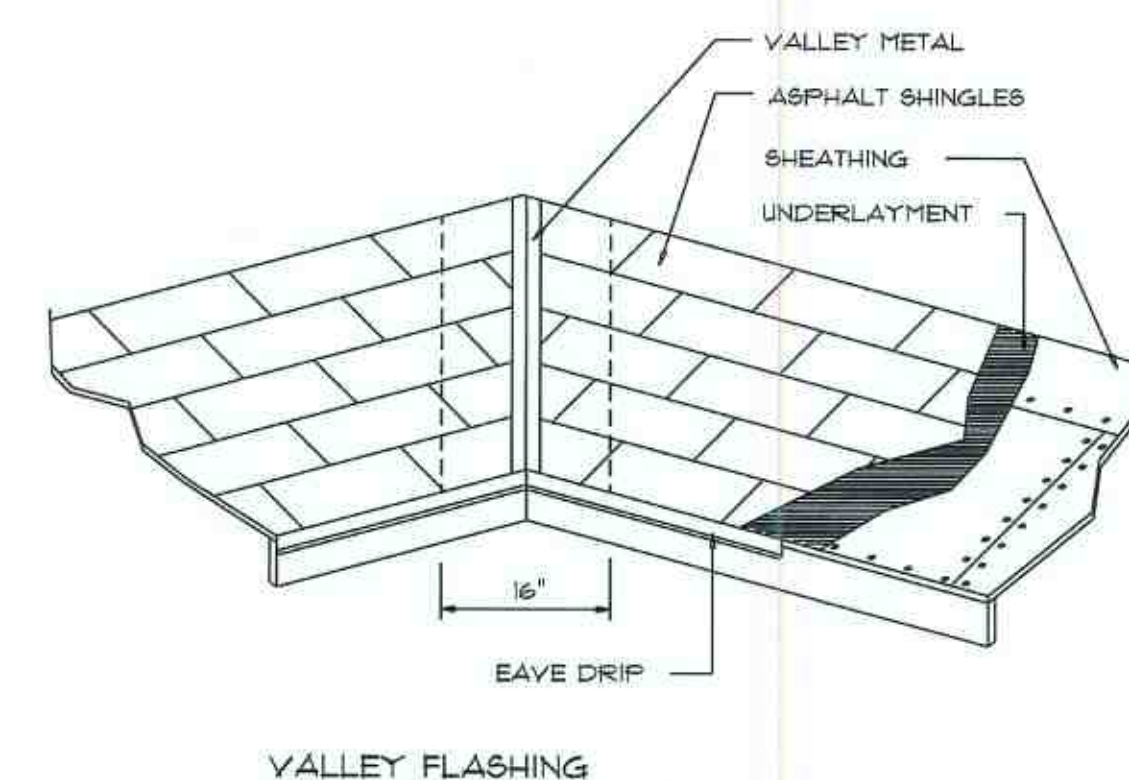
AREA OF ATTIC	REQ'D L.F. OF VENT	NET FRE AREA O INTAKE
1600 SF	20 LF	410 SQ.
1900 SF	24 LF	490 SQ.
2200 SF	28 LF	570 SQ.
2500 SF	32 LF	650 SQ.
2800 SF	36 LF	730 SQ.
3100 SF	40 LF	820 SQ.
3600 SF	44 LF	900 SQ.



### Ridge Vent DETAIL

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

**B**




ROOFING METALS for FLASHING/ROOFING  
MINIMUM THICKNESS REQUIREMENTS

MATERIAL	MINIMUM THICKNESS (in)	GAGE	WEIGHT (OZ.)
COPPER			16
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0175	26 (ZINC COATED G30)	
ZINC ALLOY LEAD PAINTED TERNE	0.021		40 20

## Roofing/Flashing DETS.

SCALE: NONE



REVISIONS
APRIL 9th, 2020

CARTER RESIDENCE  
COLUMBIA COUNTY, FLORIDA

**PAUL  
GEISLER  
ARCHITECT**

SHEET NUMBER

## §.2

OF 4SHEETS

AD0007007



FLORIDA BUILDING CODE	
Compliance Summary	
TYPE OF CONSTRUCTION	
Roof: Gable Construction, Wood Joists @ 24" O	
Walls: 2x4 Wood Studs @ 16" O.C.	
Floor: 4" Thk. Concrete Slab w/ Fiberglass Concrete Additive	
Foundation: Continuous Footer/Sim Wall	
ROOF DECKING	
Material: 1/2" CD Plywood or 7/16 O.S.B.	
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing	
Fasteners: 8d Common Nails per schedule on sheet A.1	
SHEAR WALLS	
Material: 1/2" CD Plywood or 7/16 O.S.B.	
Sheet Size: 48"x96" Sheets Placed Vertical	
Fasteners: 8d Common Nails @ 12" O.C. Edges @ 6" O.C. Interior	
Drag Strut: Double Top Plate (S.P.) Welded Nails @ 12" O.C.	
Wall Studs: 2x4 Studs @ 16" O.C.	
HURRICANE UPLIFT CONNECTORS	
Truss Anchors: SIMPSON H2.5a @ 8" Truss End (Typ. U.O.N.)	
Wall Tension: Wall Sheathing Nails is Adequate - 8d @ 4" O.C. Top & Bot.	
Anchor Bolts: 1/2" A307 Bolts @ 8" O.C. - 1st Bolt 12"-16" from corner	
Corner Hold-down Device: (1) D5a @ each corner	
Porch Column Base Connector: Simpson ABU66 @ each column	
Porch Column to Beam Connector: Simpson EPC66/PC66 @ each column	
FOOTINGS AND FOUNDATIONS	
Footings: 20"x10" x CONT., CONCRETE FOOTING w/ 2 #5 REBAR.	

STRUCTURAL DESIGN CRITERIA:

- THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.
- WIND LOAD CRITERIA: RISK CATEGORY: EXPOSURE: "B"  
BASED ON ANSI/ASCE 7-10, 2017 FBC 1609-WIND VELOCITY: V<sub>ULT</sub> = 130 MPH  
V<sub>ASCE</sub> = 101 MPH
- ROOF DESIGN LOADS:  
SUPERIMPOSED DEAD LOADS: 20 SF  
SUPERIMPOSED LIVE LOADS: 20 SF
- FLOOR DESIGN LOADS:  
SUPERIMPOSED DEAD LOADS: 25 SF  
SUPERIMPOSED LIVE LOADS:  
RESIDENTIAL 40 PSF  
BALCONIES 60 PSF
- WIND NET UPLIFT: ARE AS INDICATED IN PLANS

TERMITE PROTECTION NOTE:

SOIL CHEMICAL BARRIER METHOD:

- A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINJECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6
- CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
- IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4
- TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT AND DECORATIVE ORIENTED FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1403.1.6
- INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
- SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
- BOXED AREAS IN CONCRETE FLOOR OR SUBSEQUENT INSTALLATION OF TRAP, 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
- 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
- CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR OIL TREATMENT. FBC 1816.1.5
- SOIL TREATMENT MUST BE APPLIED OVER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING SCAFFOLDING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. FBC 1816.1.6
- ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT. FBC 1816.1.7
- 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
- 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, SHOING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
- NO WOOD, VEGETATION, STUMPS, CARBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

FRAMING ANCHOR SCHEDULE

APPLICATION	MANUFACTURER/MODEL	CAP.
TRUSS TO WALL:	SIMPSON H2.5a OR SUDC15600 SCREWS	600*
GIRDER TRUSS TO POST/HEADER:	SIMPSON LGT, W/ 28 - 16d NAILS	1785*
HEADER TO KING STUD(S):	SIMPSON ST22	1370*
PLATE TO STUD:	NO CONNECTION REQ. WHEN USING WINDSTORM BOARD	
STUD TO SILL:	NO CONNECTION REQ. WHEN USING WINDSTORM BOARD	
PORCH BEAM TO POST:	SIMPSON PC66 or MSTA24	1700*
PORCH POST TO FND.:	SIMPSON ABU66	2200*
MISC. JOINTS	SIMPSON A34	315*/240*

NOTE:  
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

NOTE:  
REFER TO THE INCLUDED STRUCTURAL DETAILS FOR ADDITIONAL ANCHORS/ JOINT REINFORCEMENT AND FASTENERS.

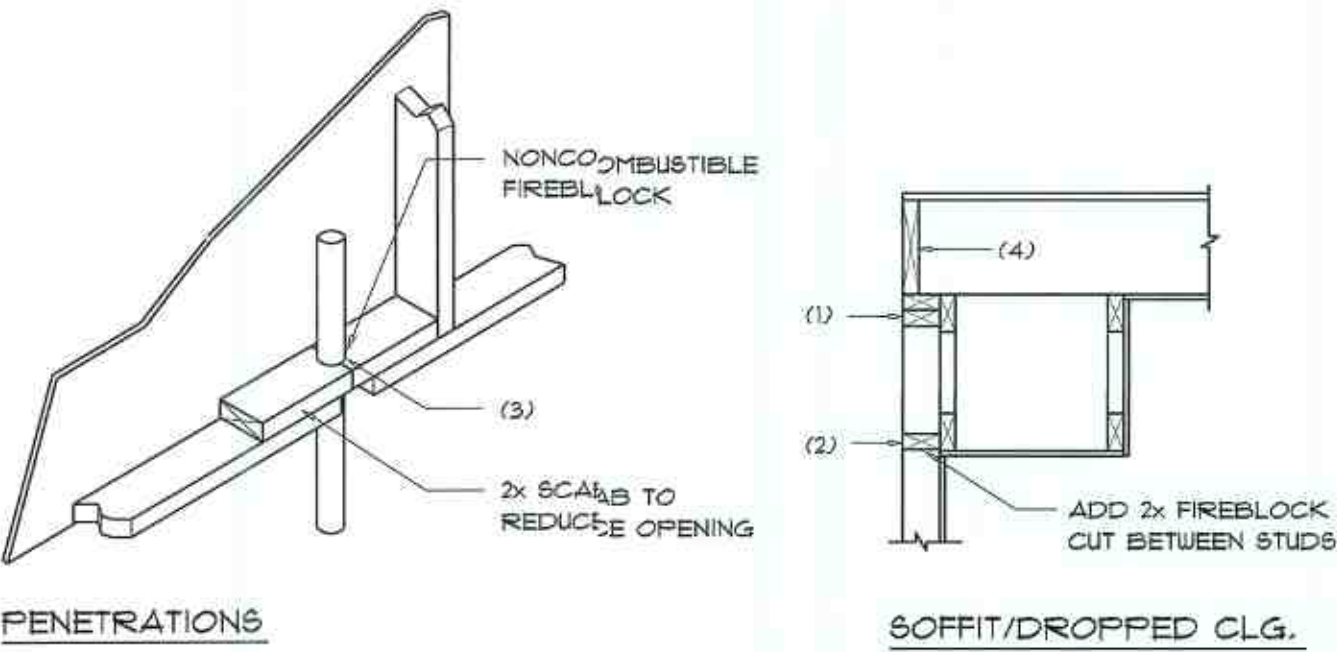
NOTE:  
ALL UNLISTED JOINTS IN THE LOAD PATH SHALL BE REINFORCED WITH SIMPSON A34 FRAMING ANCHORS, TYPICAL T.O.

NOTE:  
"SEMCO" PRODUCT APPROVAL:  
MIAMI/DADE COUNTY REPORT #35-0818.3.15

NOTE:  
"SIMPSON" PRODUCT APPROVALS:  
MIAMI/DADE COUNTY REPORT #37-0107.1.05, #36-1126.11, #99-0623.04  
SBCCI NER-443, NER-393

		BUILDING COMPONENTS & CLADDING LOADS		MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"		ROOF ANGLE 1° TO 21°	
WIND DIRECTION	WIND SPEED (MPH)	WIND DIRECTION	WIND SPEED (MPH)	WIND DIRECTION	WIND SPEED (MPH)	WIND DIRECTION	WIND SPEED (MPH)
ROOF TO FLOOR	10	10	12.0 / -19.9	14.9 / -25.1	17.5 / -27.8	20.3 / -32.5	
	20	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4	
	30	30	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2	
	40	40	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2	
	50	50	11.4 / -31.9	13.6 / -36.0	16.0 / -44.6	18.5 / -51.7	
	60	60	10.0 / -29.2	11.9 / -33.6	13.9 / -39.4	16.1 / -49.7	
WALL	10	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1	
	20	20	11.4 / -47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7	
	30	30	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5	
	40	40	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2	
	50	50	20.8 / -22.6	24.7 / -26.9	28.0 / -31.6	33.7 / -36.7	
	60	60	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6	
WALL	10	10	21.8 / -29.1	25.9 / -34.7	30.4 / -40.7	35.3 / -47.2	
	20	20	20.8 / -27.2	24.7 / -32.4	28.0 / -38.0	33.7 / -44.0	
	30	30	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8	
	40	40	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2	
	50	50	20.8 / -22.6	24.7 / -26.9	28.0 / -31.6	33.7 / -36.7	
	60	60	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6	

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING			
BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.47
20	1.00	1.29	1.59
25	1.00	1.35	1.61
30	1.00	1.40	1.66



FIREBLOCKING NOTES:

- FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
- IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
  - AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILING, COVE CEILING, ETC.
  - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYRO-PANEL MULTIFLEX SEALANT"
  - 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

A

General Roofing NOTES:

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

SLOPE:  
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DBL. UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:  
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM W/ ASTM D 226, TYPE I, OR ASTM D 4869, TYPE I.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:  
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY W/ 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 THE 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 FA 107-95.

UNDERLAYMENT APPLICATION:  
FOR ROOF SLOPES FROM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:  
1. STARTING AT THE EAVE, A 18 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 18 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 FLASHING:  
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFG'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 71 LB5 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 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" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.3.2.  
2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLYS 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.

REVISIONS
APRIL 9th, 2020

CARTER RESIDENCE

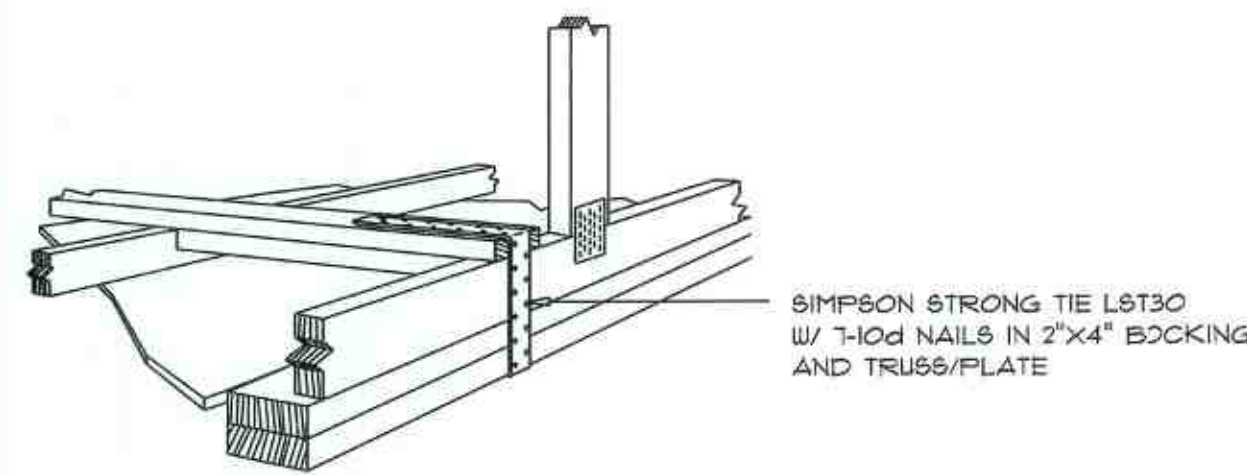
COLUMBIA COUNTY, FLORIDA

NICHOLAS PAUL GEISLER ARCHITECT  
1105 NW Brown Rd.,  
Lakeland, FL 34095  
N.C.A.R.S. Certified

SHEET NUMBER  
S.3  
OF 4 SHEETS

APR 10 2020  
AR0007005

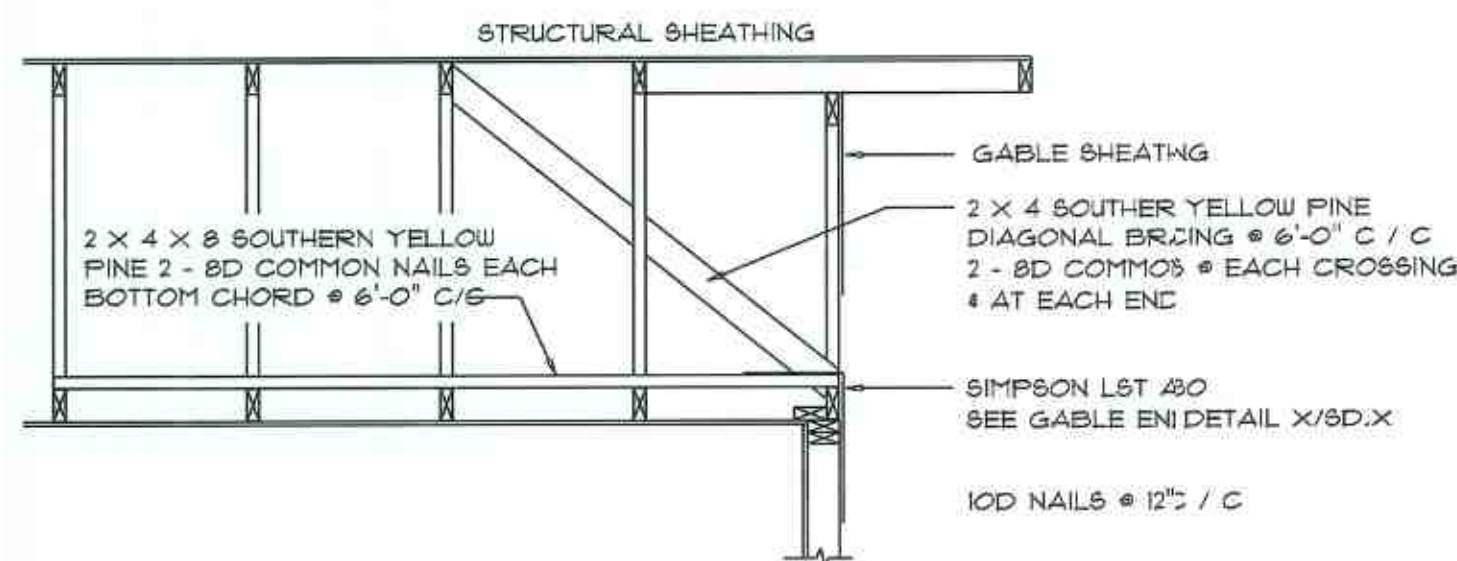




**GABLE END GYPSUM DIAPHRAGM  
HOLDOWN CONNECTOR**

SCALE: NONE

A.1



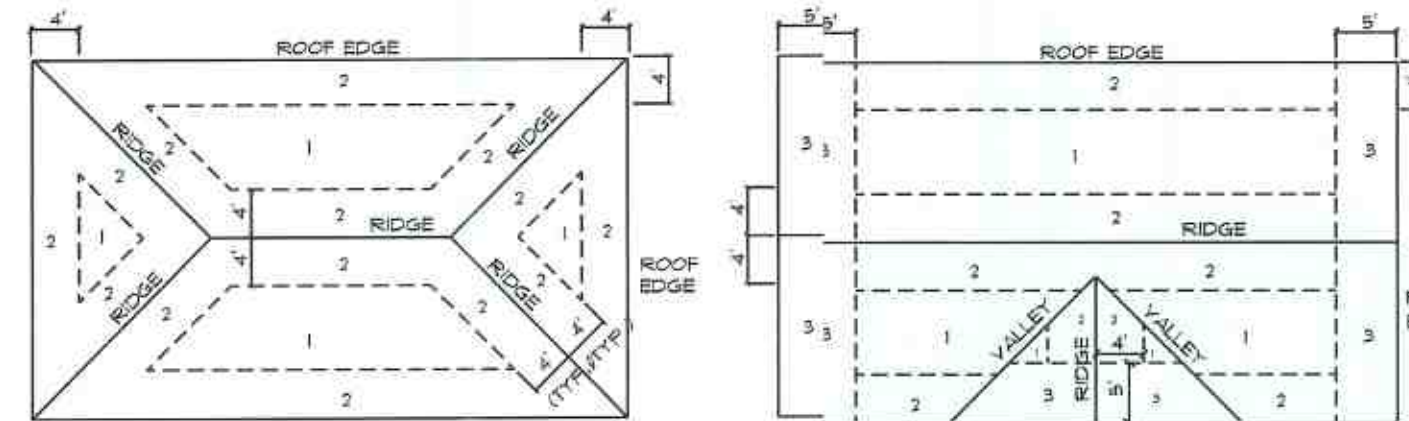
**END WALL BRACING FOR  
CEILING DIAPHRAGM**

NTS (ALTERNATIVE TO BALLOON FRAMING)

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

A

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1			6 in. o.c. EDGES 12 in. o.c. FIELD
2	1/2" O.S.B. OR 15/32 CDX	10d RING SHANKED NAILS	6 in. o.c. EDGES 6 in. o.c. FIELD
3			4 in. o.c. GABLE ENDWALL OR GABLE TRUSS 6 in. o.c. EDGES 6 in. o.c. FIELD

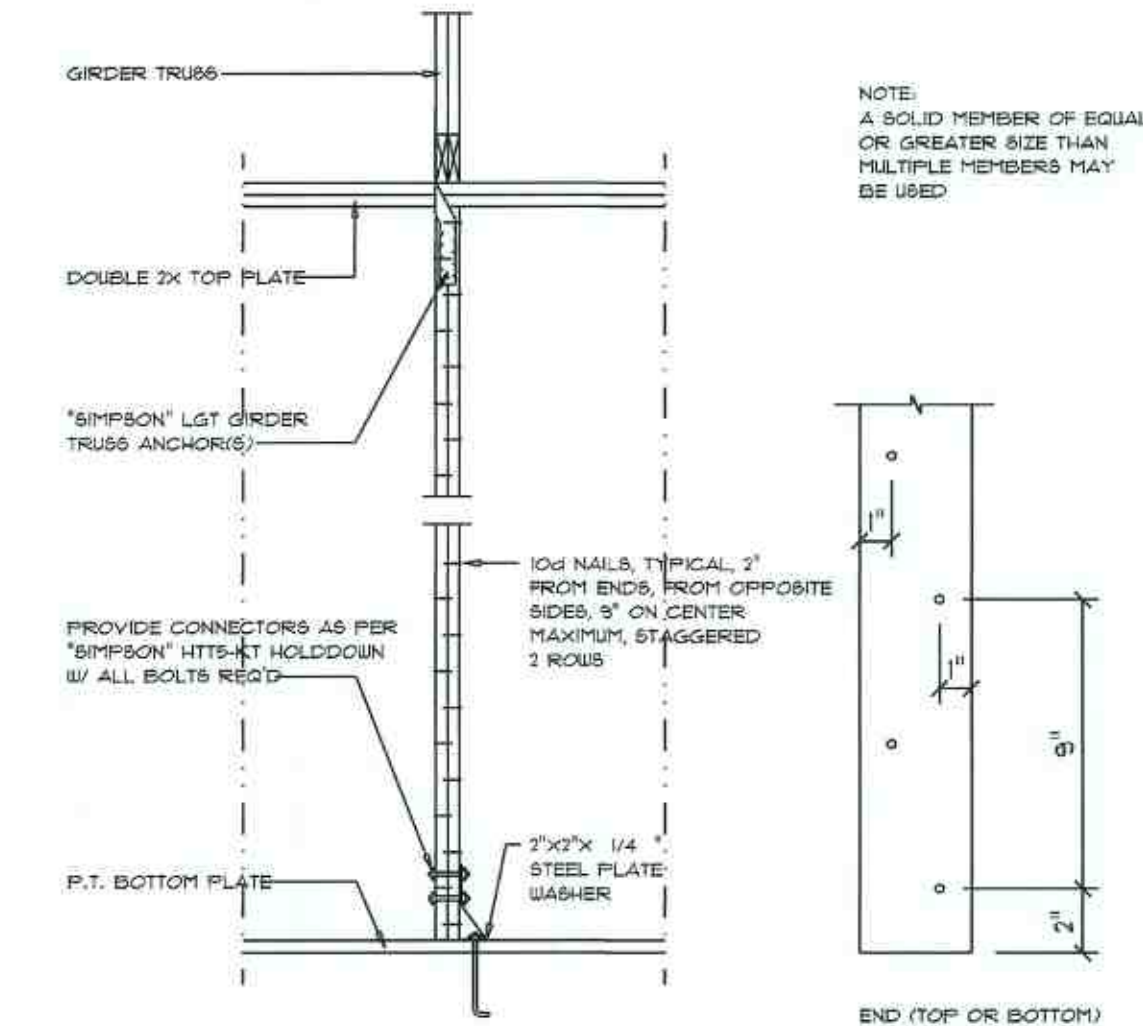


**Roof Sheathing Nailing Zones (HIP ROOF)**  
**Roof Sheathing Nailing Zones (GABLE ROOF)**

**Roof Nail Pattern DET.**

SCALE: NONE

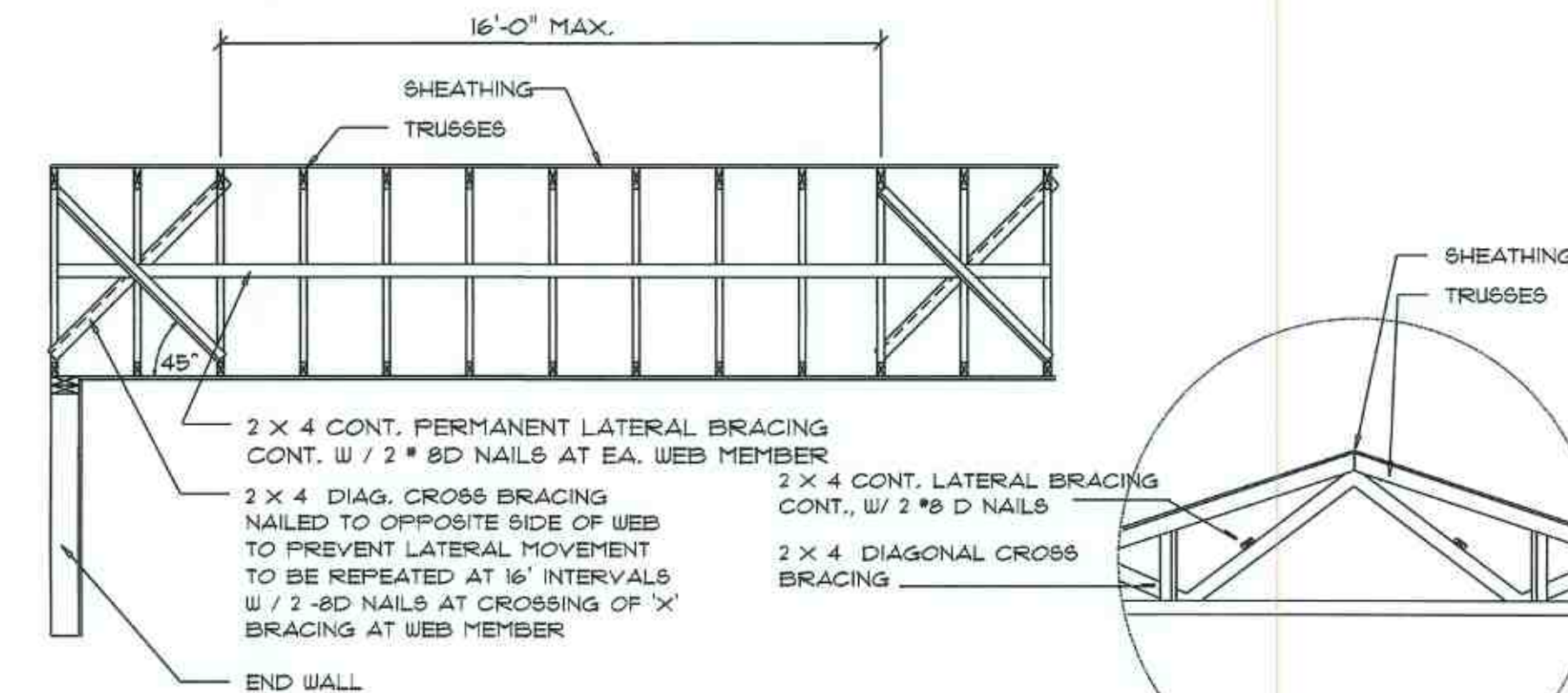
B



**Girder Truss Column DET.**

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

C



**TYP. PERMANENT TRUSS BRACING DIA.**

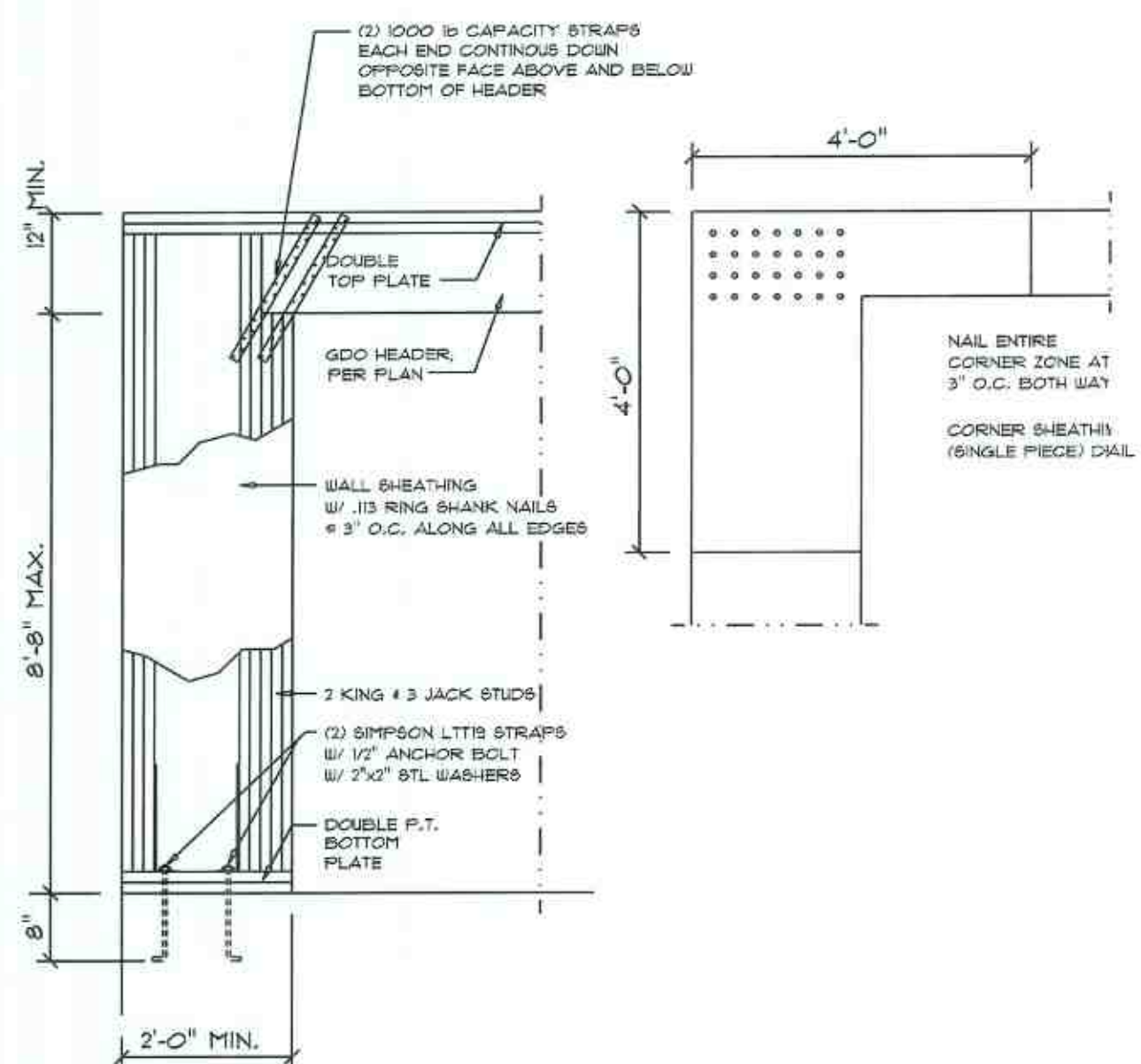
NTS

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

**Truss Bracing DETAILS**

SCALE: AS NOTED

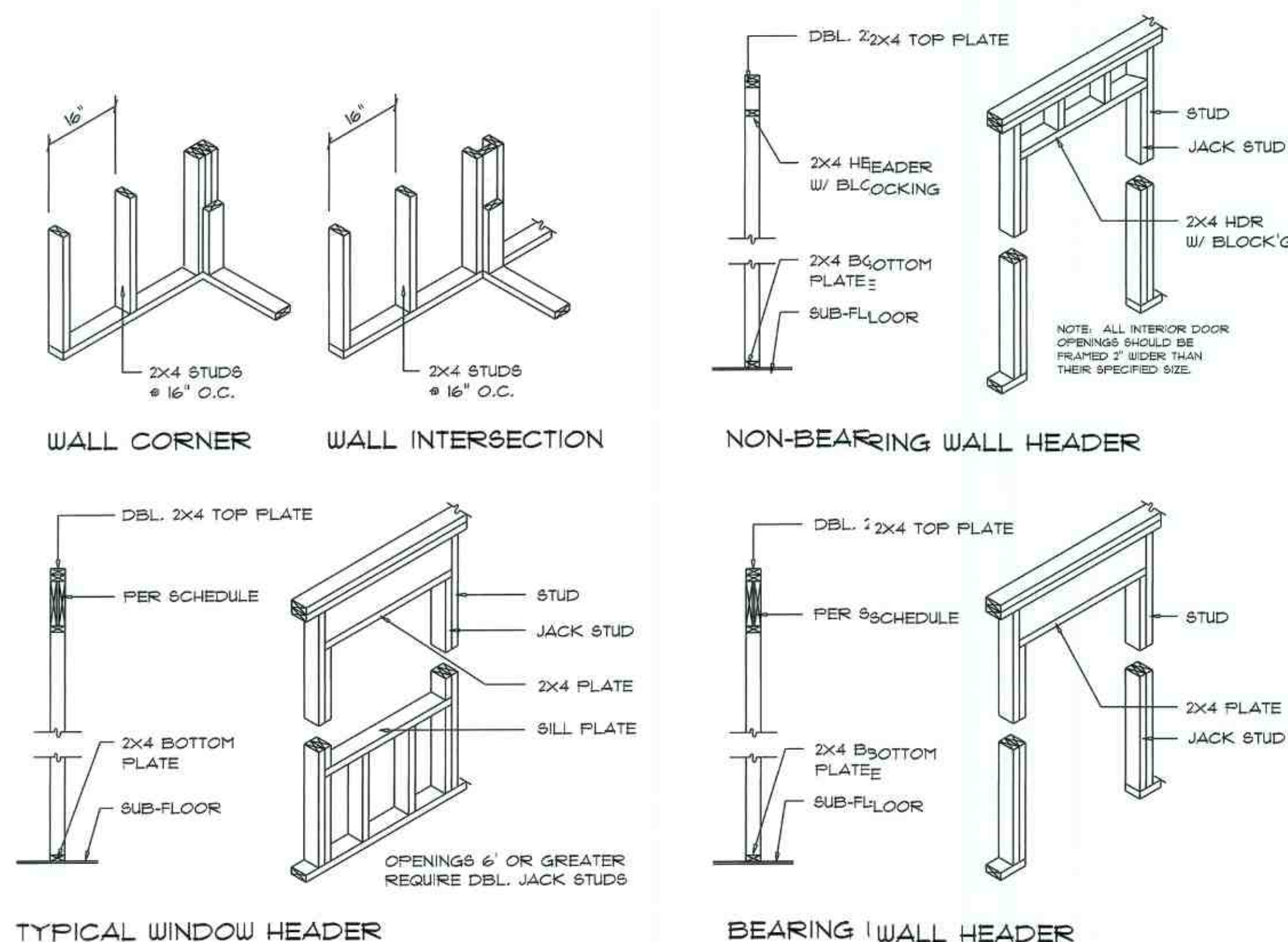
D



**Garage Side Wall DETAILS**

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

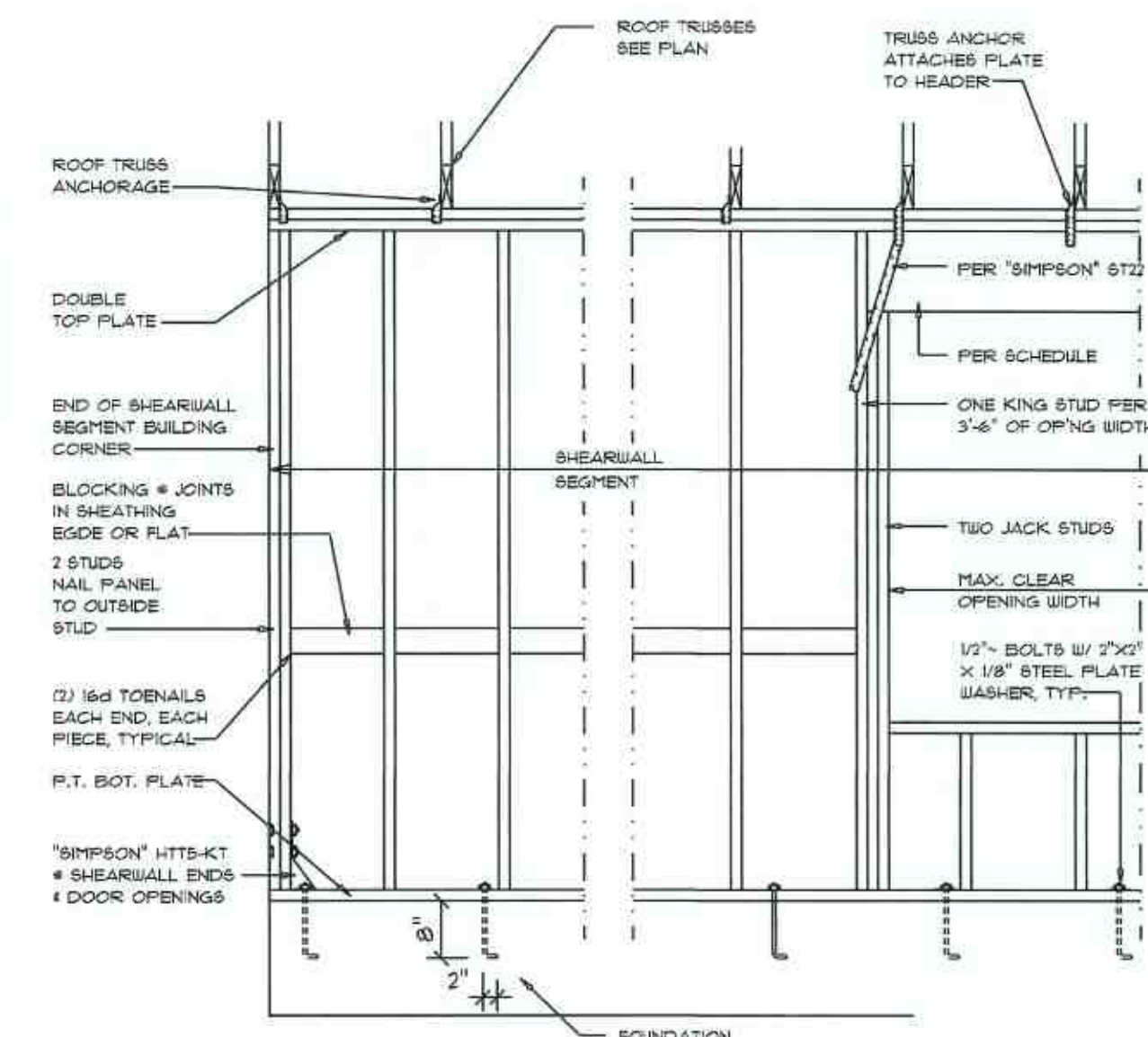
G



**Wall Framing/Header DETAILS**

SCALE: NONE

F



**Shear Wall DETAILS**

SCALE: NONE

- SHEARWALL NOTES:**
- ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS
  - THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" WINDSTORM BO INCLUDING AREAS ABOVE AND BELOW OPENINGS
  - ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING
  - 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 FOR 8'-0" WALLS (7'-3")

OPENING WIDTH	SILL PLATES	1/2" TOE NAILS EACH END
UP TO 4'-0"	(1) 2x4 OR (1) 2x6	1
4'-0" TO 8'-0"	(3) 2x4 OR (1) 2x6	2
8'-0" TO 12'-0"	(5) 2x4 OR (2) 2x6	3

REVISIONS	DATE	BY	CHKD
1	APRIL 9th, 2020		

**CARTER RESIDENCE**  
COLUMBIA COUNTY, FLORIDA

**NICHOLAS PAUL GEISLER ARCHITECT**  
1105 NW Brown Rd.,  
Lakeland, FL 33805

**SHEET NUMBER**  
**S.4**  
OF 4 SHEETS

*Handwritten signature and date: 11/10/20, 2020*  
AR0007005