

CONSTRUCT EXTERIOR WALLS W/ (2) TOP PLATES & 1 SILL PLATE, 2X 4 STUDS @ 16" O.C., SHEATH WALL W/ 1/2" OSB, APPLIED W/ 8d COMMON NAILS @ 4" O.C. ALONG EDGES & 8" O.C. ALONG INTERMEDIATE SUPPORTS

FASTEN TOP PLATE WITH 16d NAILS AT 12" O.C., TYPICAL T.O.

2 - 1 3/4" X 11 1/4" 2.0E MICRO-LAM L.V.L. BEAM, EXTEND TOP FLY OF WALL PLATE FULL LENGTH, LAP MIN. 32" TO ADJOINING WALL, ASSEMBLE W/ 16d NAILS @ 12" O.C., STAGGERED TOP & BOTTOM OF BEAM, EACH SIDE.

ANCHOR GIRDER BEAM TO WALL W/ (2) SIMPSON ST-22 STRAPS (EA. END OF BEAM)

ANCHOR BEAM TO END/LINE POSTS W/ "SIMPSON" EPC66/PC66

10'-0" TOP OF WALL

10'-0" TOP OF WALL

H2.5A STRAPS & 6 - 10" NAILS OR WITH "SIMPSON" 8DUC15600 MIN. 1 SCREW AT EA. POINT OF BEARING

DBL. 2X10 HEADER PER 5.4 MINIMUM TYPICAL HEADER

FALSE DORMER

2 - 1 3/4" X 11 1/4" 2.0E MICRO-LAM L.V.L. BEAM, EXTEND TOP FLY OF WALL PLATE FULL LENGTH, LAP MIN. 32" TO ADJOINING WALL, ASSEMBLE W/ 16d NAILS @ 12" O.C., STAGGERED TOP & BOTTOM OF BEAM, EACH SIDE.

ANCHOR GIRDER BEAM TO WALL W/ (2) SIMPSON ST-22 STRAPS (EA. END OF BEAM)

ANCHOR BEAM TO END/LINE POSTS W/ "SIMPSON" EPC66/PC66

10'-0" TOP OF WALL

Roof Framing PLAN

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

NOTE!
ANCHOR GIRDER TRUSS(ES) TO HEADER WITH 2 "SIMPSON" LGT2, 3 OR 4;
ANCHOR HEADER TO KING STUDS W/ 2 "SIMPSON" ST22 EA. END - TYP., T.O.

NOTE!
REFER TO THE WINDOW/DOOR HEADER REQUIREMENTS WITH THE TRUSS ENGINEERING SHOP DRAWINGS. SOME OF THE TRUSS TO TRUSS CONNECTIONS WILL REQUIRE ANCHOR STRAPS IN ADDITION TO TYPICAL NAILING. ANCHOR DEVICES SHALL BE REQUIRED FOR ALL JOINTS WITH AN UPLIFT OR GRAVITY LOAD OF 100 LBS OR GREATER.

THE CONTRACTOR SHALL COORDINATE THE TRUSS TO TRUSS ANCHOR REQUIREMENTS WITH THE TRUSS ENGINEERING SHOP DRAWINGS. SOME OF THE TRUSS TO TRUSS CONNECTIONS WILL REQUIRE ANCHOR STRAPS IN ADDITION TO TYPICAL NAILING. ANCHOR DEVICES SHALL BE REQUIRED FOR ALL JOINTS WITH AN UPLIFT OR GRAVITY LOAD OF 100 LBS OR GREATER.

TRUSSES BEARING ON INTERIOR PARTITIONS WHERE UPLIFT LOADS ARE PRESENT SHALL REQUIRE ANCHORS OF EQUAL OR GREATER LOAD CAPACITY THAN THAT INDICATED BY THE TRUSS SHOP DRAWINGS. THE UPLIFT ANCHOR SYSTEM SHALL BE CONTINUOUS TO THE FOUNDATION.

PROJECT COORDINATION REQUIREMENTS

NOTICE!

THESE PLANS ARE DRAWN FOR AVERAGE SITE CONDITIONS AND COMPLIANCE WITH APPLICABLE CODES AT THE TIME THEY ARE DRAWN. DUE TO VARYING STATE, LOCAL, AND NATIONAL CODES, RULES AND REGULATIONS, N.P. GEISLER, ARCHITECT CANNOT WARRANT COMPLIANCE WITH ALL APPLICABLE STATE, LOCAL, AND NATIONAL CODES IN YOUR AREA OR WITH YOUR PARTICULAR SITE CONDITIONS. IT IS THE RESPONSIBILITY OF THE PURCHASER AND/OR BUILDER TO SEE THAT THE STRUCTURE IS BUILT IN STRICT COMPLIANCE WITH ALL GOVERNING MUNICIPAL CODES (CITY, COUNTY, STATE, AND FEDERAL). IF YOUR CITY OR STATE REQUIRES AN ENGINEER'S SEAL FOR THE SITE/CIVIL PORTIONS OF THE WORK, YOU WILL NEED TO HAVE THAT DONE LOCALLY BY A QUALIFIED, LICENCED PROFESSIONAL ENGINEER.

ROOF PLAN NOTES

- R-1 SEE EXTERIOR ELEVATIONS FOR ROOF PITCH
- R-2 ALL OVERHANG 18" UNLESS OTHERWISE NOTED
- R-3 PROVIDE ATTIC VENTILATION IN ACCORDANCE WITH SCHEDULE ON 5.2
- R-4 SEE EXTERIOR ELEVATIONS AND FLOOR PLANS TO VERIFY PLATE AND HEEL HEIGHTS
- R-5 MOVE ALL VENTS AND OTHER ROOF PENETRATIONS TO REAR

NOTE!
SHEATH ROOF W/ 1/2" CDX PLYWOOD PLACED W/ LONG DIMENSION PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING W/ 8d NAILS - AS PER DETAIL ON SHEET 5D.4

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 130 MPH PER 2020 FBC (1TH EDITION) 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

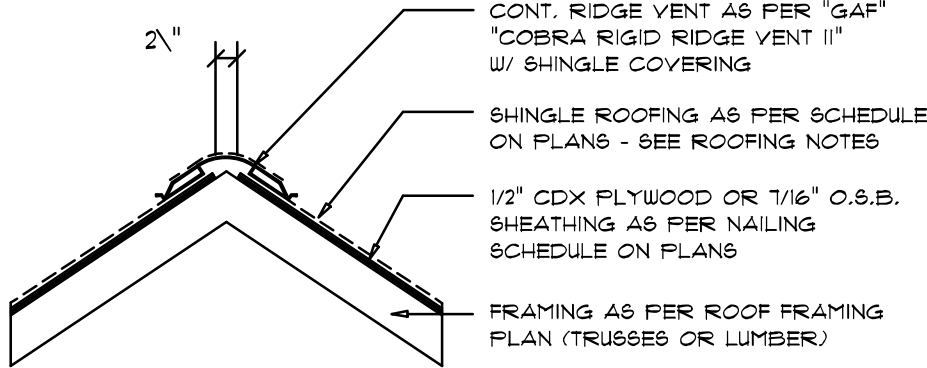
GENERAL TRUSS NOTES:

- 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.

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 N-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.

AREA OF ATTIC	REQ'D L.F. OF VENT	NET FREE AREA OF INTAKE
1600 SF	20 LF	410 SQ.IN.
1800 SF	24 LF	490 SQ.IN.
2200 SF	28 LF	510 SQ.IN.
2500 SF	32 LF	550 SQ.IN.
2800 SF	36 LF	730 SQ.IN.
3100 SF	40 LF	820 SQ.IN.
3600 SF	44 LF	900 SQ.IN.

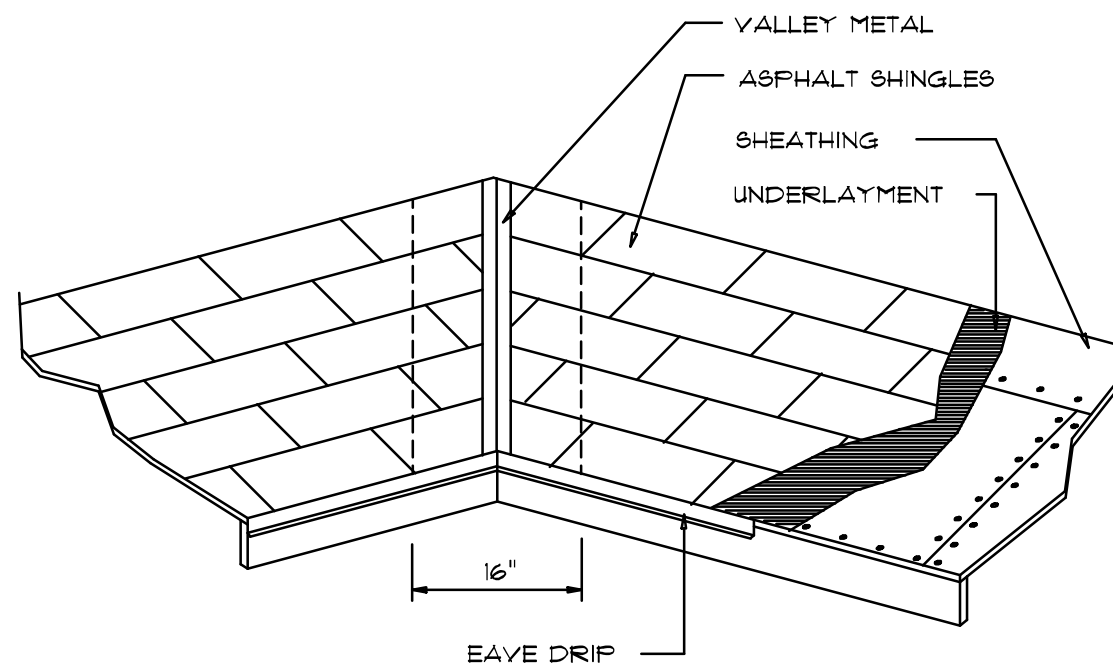


MIAMI/DADE PRODUCT APPROVAL REPORT: #58-0713.05

Ridge Vent DETAIL

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

B



VALLEY FLASHING

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 G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.021		40 20

Roofing/Flashing DETS.

SCALE: NONE

A

REVISIONS

June 06, 2023

SOFTPLAN

ARCHITECTURAL DRAFTING SOFTWARE

ROOF PLAN

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

A CUSTOM HOME DESIGN FOR:

Isaac & Marlene Hart

PROJECT ADDRESS: 159 SW GOVERNORS GLEN, LAKE CITY, FLORIDA 32024 (COLUMBIA COUNTY)

AR0001005

NICHOLAS PAUL ARCHITECT N.C.A.R.B. Certified

1755 NW Brown Rd. Lake City, FL 32085 (386) 365-4355

JOB NUMBER 20230503

SHEET NUMBER

S.2

OF 4 SHEETS

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

FLORIDA BUILDING CODE

Compliance Summary

TYPE OF CONSTRUCTION

Roof: Gable and/or Hip Construction, Wood Trusses @ 24" O.C.
Walls: 2x 4 or 2x 6 Wood Studs @ 16" O.C.
Floor: 4" Thk. Concrete Slab W/ 6x6/10:10 WWM ON CHAIRS @ 36" O.C.,
Foundation: Continuous monolithic footing or /Stem Wall foundation system

ROOF DECKING

Material: 19/32" CDX Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing
Fasteners: 10d Ring-Shank nails per schedule on sheet S.4

SHEARWALLS

Material: 1/2" CD Plywood or 7/16" O.S.B.
Sheet Size: 48"x96" Sheets Placed Vertical, stagger each sheet.
Fasteners: 8d Common Nails @ 4" O.C. Edges & 8" O.C. Interior
Dragstrut: Double Top Plate (S.Y.P.) W/16d Nails @ 12" O.C.
Wall Studs: 2x 4 or 6 Wood Studs @ 16" O.C.

HURRICANE UPLIFT CONNECTORS

Truss Anchors: SIMPSON H2.5A (OR EQUIVALENT), W/ 6 - 10d NAILS
Wall Tension: Wall Sheathing Nailing is Adequate - 8d @ 4" O.C. Top & Bot.
Porch Column Base Connector: Simpson ABU66/ABU66 @ each column
Porch Column to Beam Connector: Simpson EPC66/PC66 @ each column

FOOTINGS AND FOUNDATIONS

Footing: 20"x 10" Cont. W/ (2) #5 Bars Cont. on chairs or (1) #3 Transverse @ 24" O.C.
Stemwall: 8" C.M.U. W/1-#5 Vertical Dowel @ 48" O.C.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE (7TH EDITION) 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: "B"

BASED ON ANSI/AISC 7-16, 2020 FBC 1609-A WIND VELOCITY: V_{ULT} = 130 MPH
V_{DES} = 121 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: 40 PSF
RESIDENTIAL BALCONIES 60 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

TERMITE PROTECTION NOTES:

SOIL CHEMICAL BARRIER METHOD:

- 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
- CONDENSATE AND FRODOWNSPOUTS 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 CEMENTIOUS 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 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
- 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 SOIL TREATMENT. FBC 1816.1.5
- SOIL TREATMENT MUST BE APPLIED UNDER 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 LANDSCAPING 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 # 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, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

FRAMING ANCHOR SCHEDULE

APPLICATION	MANUF'R/MODEL	CAP.
TRUSS TO WALL:	SIMPSON H2.5A (OR EQUIVALENT), W/ 6 - 10d NAILS	960#
GIRDER TRUSS TO POST/HEADER:	SIMPSON LGT, W/ 28 - 16d NAILS	1785#
HEADER TO KING STUD(S):	SIMPSON ST22	1370#
PLATE TO STUD:	SIMPSON SP2	1065#
STUD TO SILL:	SIMPSON SP1	585#
PORCH BEAM TO POST:	SIMPSON PC44/EPC44	1700#
PORCH POST TO FND.:	(6) LOG TOE-SCREWS	
MISC. JOINTS	SIMPSON A34	

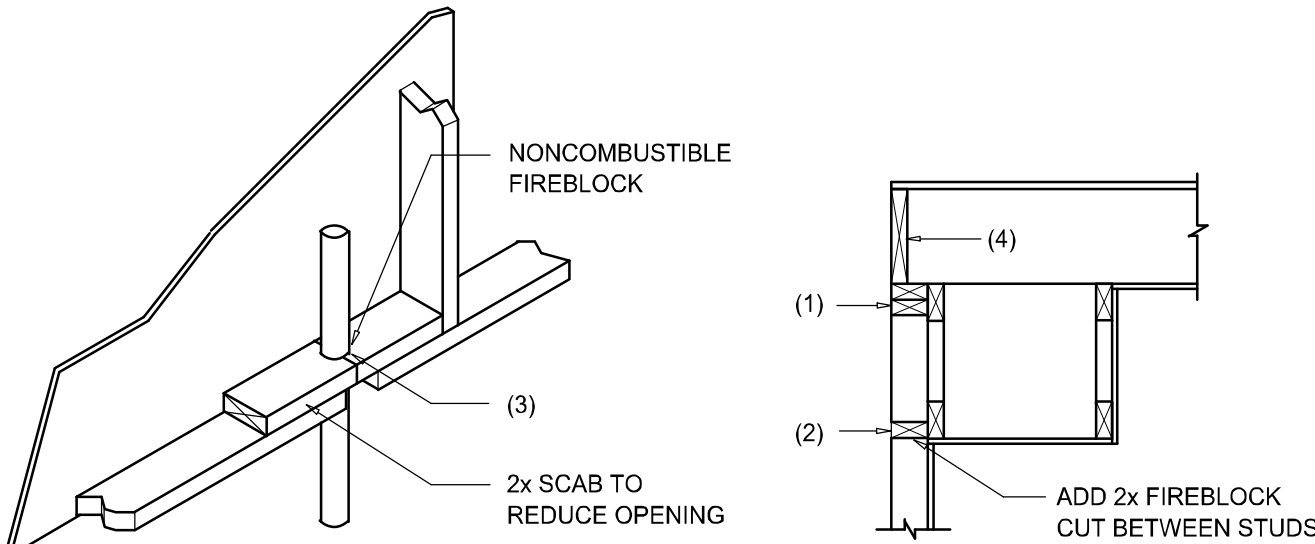
NOTE:
ALL ANCHORS SHALL BE SECURED W/ NAILS AS PRESCRIBED BY THE MANUFACTURER FOR MAXIMUM JOINT STRENGTH, UNLESS NOTED OTHERWISE.

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 #95-0818.15

NOTE:
"SIMPSON" PRODUCT APPROVALS:
MIAMI/DADE COUNTY REPORT #97-0107.05, #96-1126.11, #99-0623.04
SBC01 NER-443, NER-393



PENETRATIONS

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 CEILINGS, COVE CEILINGS, ETC.
- AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH "PYROPANEL 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

BUILDING COMPONENTS & CLADDING LOADS MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B" ROOF ANGLE 21° TO 45°									
ZONE #	AREA (ft. ²)	V _{ult} 115 MPH		V _{ult} 120 MPH		V _{ult} 130 MPH		V _{ult} 140 MPH	
		Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
1	10	10.2	-20.3	11.1	-21.1	13	-23	15.1	-30.1
1	20	10	-16	10	-16.6	11.3	-22	13.1	-26.7
1	10	10	-16	10	-16.3	10	-19.2	10.9	-22.2
1	100	10	-12.2	10	-12.9	10	-12.2	10	-12.9
20	10	10.2	-20.2	11.1	-20.3	13	-20.9	15.1	-20.9
20	20	10	-16.1	10	-20.8	11.3	-24.4	13.1	-25.3
20	30	10	-11.9	10	-12.9	10	-15.1	10.9	-17.6
20	100	10	-11.9	10	-12.9	10	-15.1	10	-17.6
21	10	10.2	-20.6	11.1	-20.3	13	-20.1	15.1	-21.4
21	20	10	-20.7	10	-20	11.3	-22.8	13.1	-26.1
21	30	10	-19.2	10	-20.9	10	-24.5	10.9	-25.4
21	100	10	-14.3	10	-15.5	10	-15.2	10	-21.2
3	10	10.2	-20.7	11.1	-20.6	13	-21.7	15.1	-24.4
3	20	10	-20.6	10	-20.7	11.3	-21.1	13.1	-24.4
3	30	10	-14.3	10	-15.5	10	-15.2	10.9	-21.2
3	100	10	-14.3	10	-15.5	10	-15.2	10	-21.2
4	10	14.3	-15.5	15.5	-16.9	18.2	-19.6	21.2	-25.9
4	20	13.6	-14.6	14.6	-16.1	17.4	-19	20.2	-24
4	30	12.9	-14	13.9	-15.2	16.3	-17.2	18	-21.7
4	100	12.1	-13.3	13.2	-14.5	15.5	-17.1	18	-19.4
4	500	10.6	-11.9	11.6	-12.9	13.6	-15.1	15.8	-17.6
5	10	14.3	-16.1	15.5	-20.6	18.2	-24.4	21.2	-28.3
5	20	13.6	-17.8	14.6	-19.4	17.4	-22.8	20.2	-26.4
5	30	13	-16.1	13.9	-17.6	16.3	-20.1	18	-21.9
5	100	12.1	-14.8	13.2	-16.1	15.5	-19	18	-22
5	500	10.6	-11.9	11.6	-12.9	13.6	-15.1	15.8	-17.6

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING			
BLDG HEIGHT (ft.)	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	.82	1.21	1.41
20	.89	1.29	1.55
25	.94	1.35	1.61
30	1.00	1.40	1.66

BUILDING COMPONENTS & CLADDING LOADS MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B" ROOF ANGLE 21° TO 45°									
ZONE #	AREA (ft. ²)	V _{ult} 115 MPH		V _{ult} 120 MPH		V _{ult} 130 MPH		V _{ult} 140 MPH	
		Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
1,20	10	10.6	-20.4	11.6	-20.7	13.6	-23.7	15.6	-30.1
1,20	20	10	-20.4	10	-20.7	11.7	-23.7	13.6	-29.1
1,20	10	10	-15.1	10	-17.2	10	-23.1	10.6	-23.1
1,20	100	10	-6.2	10	-6	10	-10.5	10	-12.2
20,21,26	10	10.6	-38.5	11.6	-41.9	13.6	-49.2	15.6	-57
20,21,26	20	10	-33.2	10	-36.5	11.7	-42.4	13.6	-49.2
20,21,26	30	10	-29.2	10	-29.5	10	-33.5	10.6	-38.9
20,21,26	100	10	-22.9	10	-22.9	10	-25.7	10	-27
31	10	10.6	-42.7	11.6	-46.9	13.6	-55.6	15.6	-67.8
31	20	10	-38.2	10	-42.7	11.7	-50	13.6	-58.1
31	30	10	-30.5	10	-33.2	10	-39	10.6	-45.2
31	100	10	-24	10	-26.1	10	-30.6	10	-35.5

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. PER R905, DOUBLE UNDERLAYMENT IS REQUIRED ON ROOF SLOPES GREATER THAN 4:12.

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

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 PA 107-95.

UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FROM 2:12 TO 4:12 AND GREATER, 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 TWO LAYERS 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 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 W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.
- 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 1507.3.9.2.
 - 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.
 - FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
 - BOTH TYPES 1 AND 2 ABOVE, COMBINED.
 - ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
 - SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

NOTE !!!
ROOFSHINGLES SHALL BE AS MANUFACTURED BY *TAMKO ROOFING PRODUCTS* OF THE FOLLOWING MODELS:

GLASS-SEAL AR
ELITE GLASS-SEAL AR
HERITAGE 30 AR
HERITAGE 40 AR
HERITAGE 50 AR

THESE SHINGLES MEET THE REQUIREMENTS OF ASTM D-3161
TYPE 1 MODIFIED TO 110 MPH WINDS & FBC TAS 100, USING
4 NAILS/SHINGLE

REVISIONS
June 06, 2023

SOFTPLAN
ARCHITECTURAL SOFTWARE

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

A CUSTOM HOME DESIGN FOR:
Isaac & Marlene Hart
PROJECT ADDRESS: 159 SW GOVERNORS GLEN, LAKE CITY, FLORIDA 32024 (COLUMBIA COUNTY)

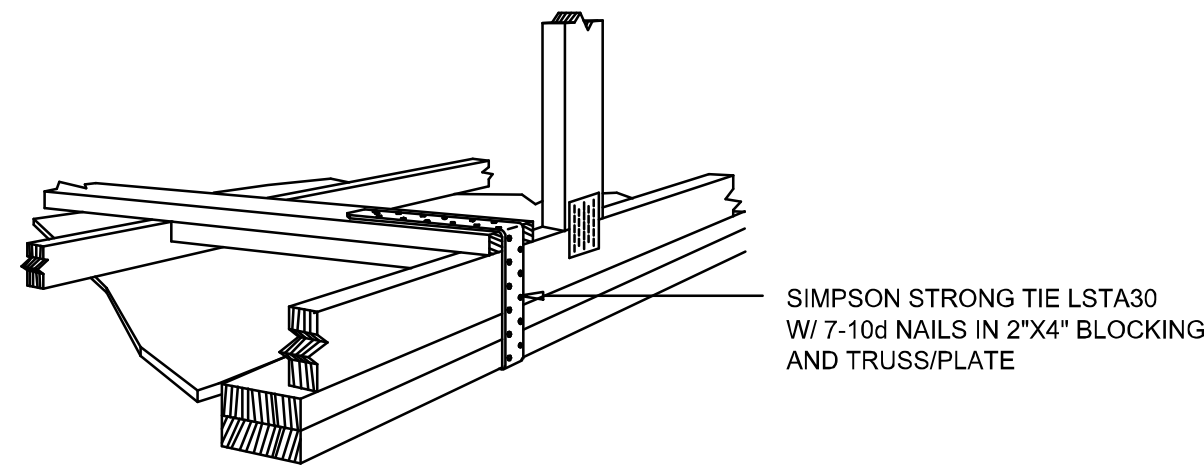
ARCHITECT
NICHOLAS PAUL
ARCHITECT
N.C.A.R.B. Certified

1759 NW Brown Rd.
Lake City, FL 32065
(386) 365-4355

JOB NUMBER
20230503

SHEET NUMBER
S.3
OF 4 SHEETS

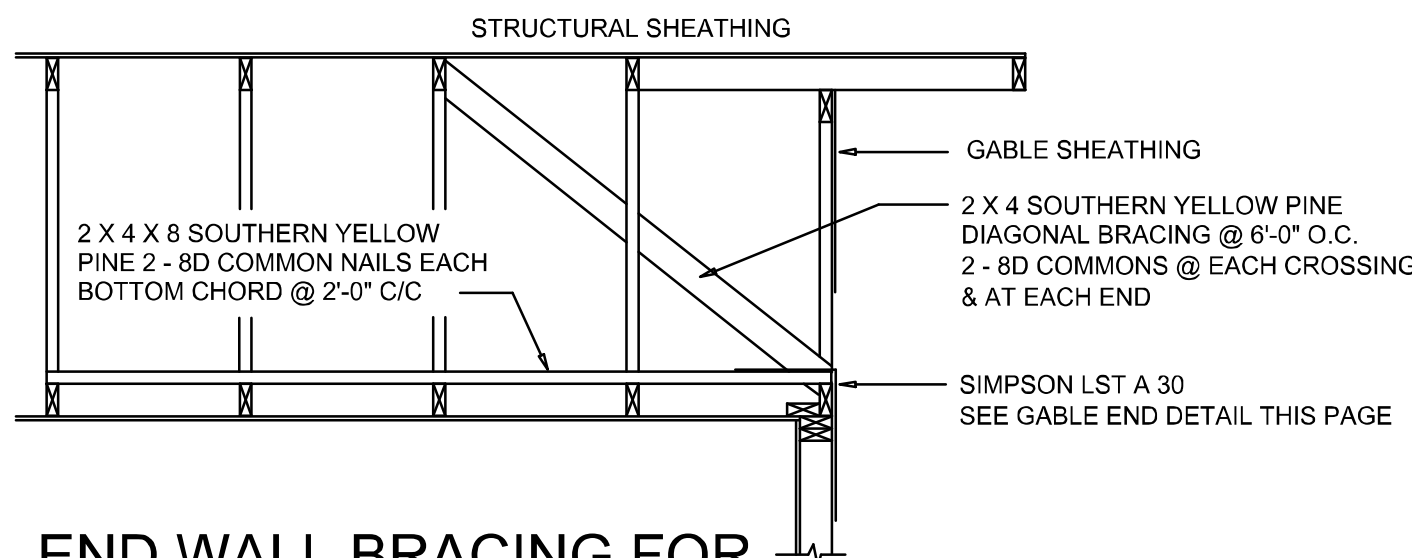
NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS



GABLE END GYPSUM DIAPHRAGM HOLDOWN CONNECTOR

SCALE: NONE

A.1



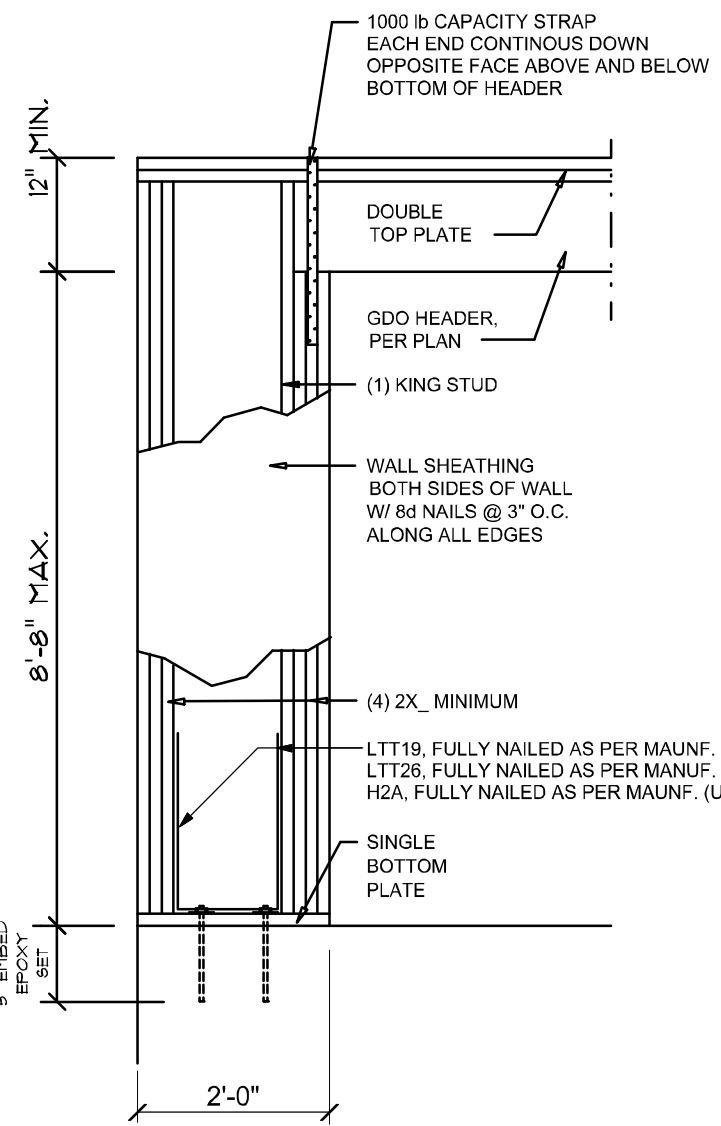
END WALL BRACING FOR CEILING DIAPHRAGM

NTS (ALTERNATIVE TO BALLOON FRAMING)

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

A

BUILDING COMPONENTS & CLADDING LOADS MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B" ROOF ANGLE 2° TO 45°									
ZONE	AREA (ft ²)	Vult 15 MPH		Vult 120 MPH		Vult 130 MPH		Vult 140 MPH	
		Fce	Neg	Fce	Neg	Fce	Neg	Fce	Neg
1	10	10.2	-26.3	11.1	-25.1	13	-26	15.1	-26.1
1	20	10	-18	10	-19.6	11.3	-23	13.1	-25.7
1	40	10	-16	10	-16.9	10	-19.2	10.6	-20.2
1	100	10	-12.7	10	-13.9	10	-16.2	10	-18.8
3a	10	10.2	-26.2	11.1	-25.3	13	-25.9	15.1	-26.9
3a	20	10	-18.1	10	-20.3	11.3	-24.4	13.1	-25.3
3a	40	10	-11.9	10	-12.9	10	-15.1	10.6	-17.6
3a	100	10	-11.9	10	-12.9	10	-15.1	10	-17.6
2	10	10.2	-26.3	11.1	-25.3	13	-26.1	15.1	-26.4
2	20	10	-20.7	10	-23	11.3	-22.5	13.1	-25.1
2	40	10	-19.2	10	-20.9	10	-21.5	10.5	-23.4
2	100	10	-14.3	10	-15.5	10	-19.2	10	-21.2
3	10	10.2	-26.7	11.1	-26.6	13	-41.7	15.1	-46.4
3	20	10	-24.1	10	-26.7	11.3	-31.4	13.1	-36.4
3	40	10	-14.3	10	-15.5	10	-19.2	10.5	-21.2
3	100	10	-14.3	10	-15.5	10	-19.2	10	-21.2
4	10	14.3	-15.5	15.5	-16.9	18.2	-18.8	21.2	-22.9
4	20	13.6	-14.9	14.9	-16.1	17.4	-19	20.2	-22
4	40	10.9	-14.1	10.9	-15.2	16.9	-17.6	19	-20.7
4	100	10.1	-13.3	10.2	-14.5	16.5	-17.1	18	-20.6
5	100	10.6	-11.9	11.6	-12.9	13.6	-15.1	15.6	-17.6
5	10	14.3	-15.1	15.5	-16.3	18.2	-24.4	21.2	-23.3
5	20	13.6	-17.8	14.9	-19.4	17.4	-22.8	20.2	-26.4
5	40	10	-16.9	-16.1	-16.9	-17.6	-18.9	-20.6	-20.6
5	100	10.1	-14.9	10.2	-16.1	16.5	-19	18	-22
5	500	10.6	-11.9	11.6	-12.9	13.6	-15.1	15.6	-17.6



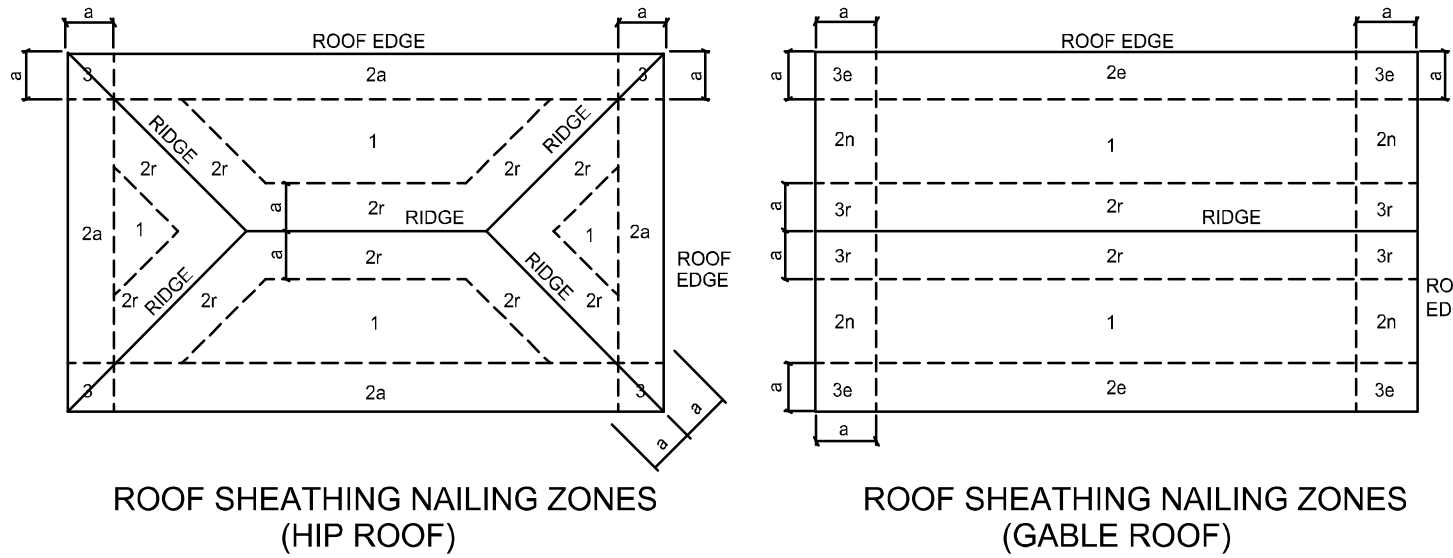
Garage End Wall DETAIL

SCALE: NTS

G

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	7/16" O.S.B. OR 19/32 CDX PLYWOOD	10d RING SHANK	6 in. o.c. EDGE 6 in. o.c. FIELD
2			4 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

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING			
BLDG HEIGHT (ft)	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	.82	1.21	1.41
20	.89	1.29	1.55
25	.94	1.35	1.61
30	1.00	1.40	1.66



ROOF SHEATHING NAILING ZONES
(HIP ROOF)

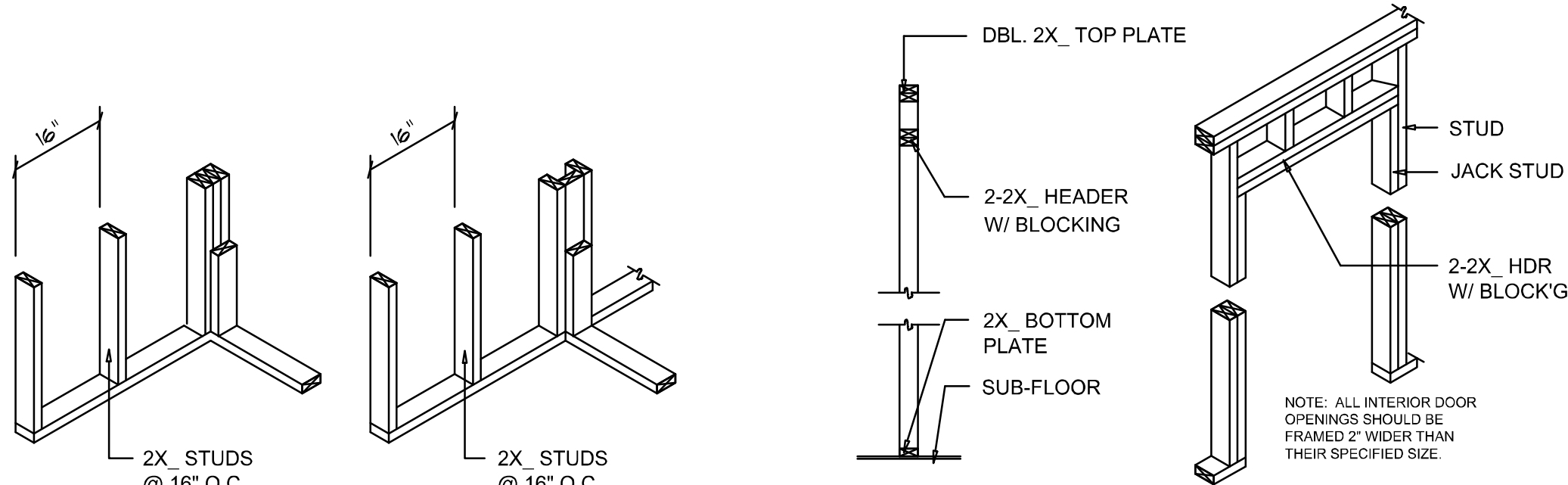
ROOF SHEATHING NAILING ZONES
(GABLE ROOF)

Roof Nail Pattern DET.

SCALE: NONE

B

HEADER SPANS FOR EXTERIOR BEARING WALLS							
HEADERS SUPPORTING:	HEADER SIZE	BUILDING WIDTH (FT)					
		20'		28'		36'	
ROOF, CEILING	2-2x4	SPAN	# JACKS	SPAN	# JACKS	SPAN	# JACKS
	2-2x4	3'-6"	1	3'-2"	1	2'-10"	1
	2-2x6	5'-5"	1	4'-8"	1	4'-2"	1
	2-2x8	6'-10"	1	5'-11"	2	5'-4"	1
	2-2x10	8'-5"	2	7'-3"	2	6'-6"	2
	2-2x12	9'-9"	2	8'-5"	2	7'-6"	2
	3-2x8	8'-4"	1	7'-5"	1	6'-8"	1
	3-2x10	10'-6"	1	9'-1"	2	8'-2"	1
	3-2x12	12'-2"	2	10'-7"	2	9'-5"	2
	4-2x8	9'-2"	1	8'-4"	1	9'-2"	1
	4-2x10	11'-8"	1	10'-6"	1	9'-5"	1
4-2x12	14'-1"	1	12'-2"	2	10'-11"	1	



WALL CORNER

WALL INTERSECTION

NON-BEARING WALL HEADER

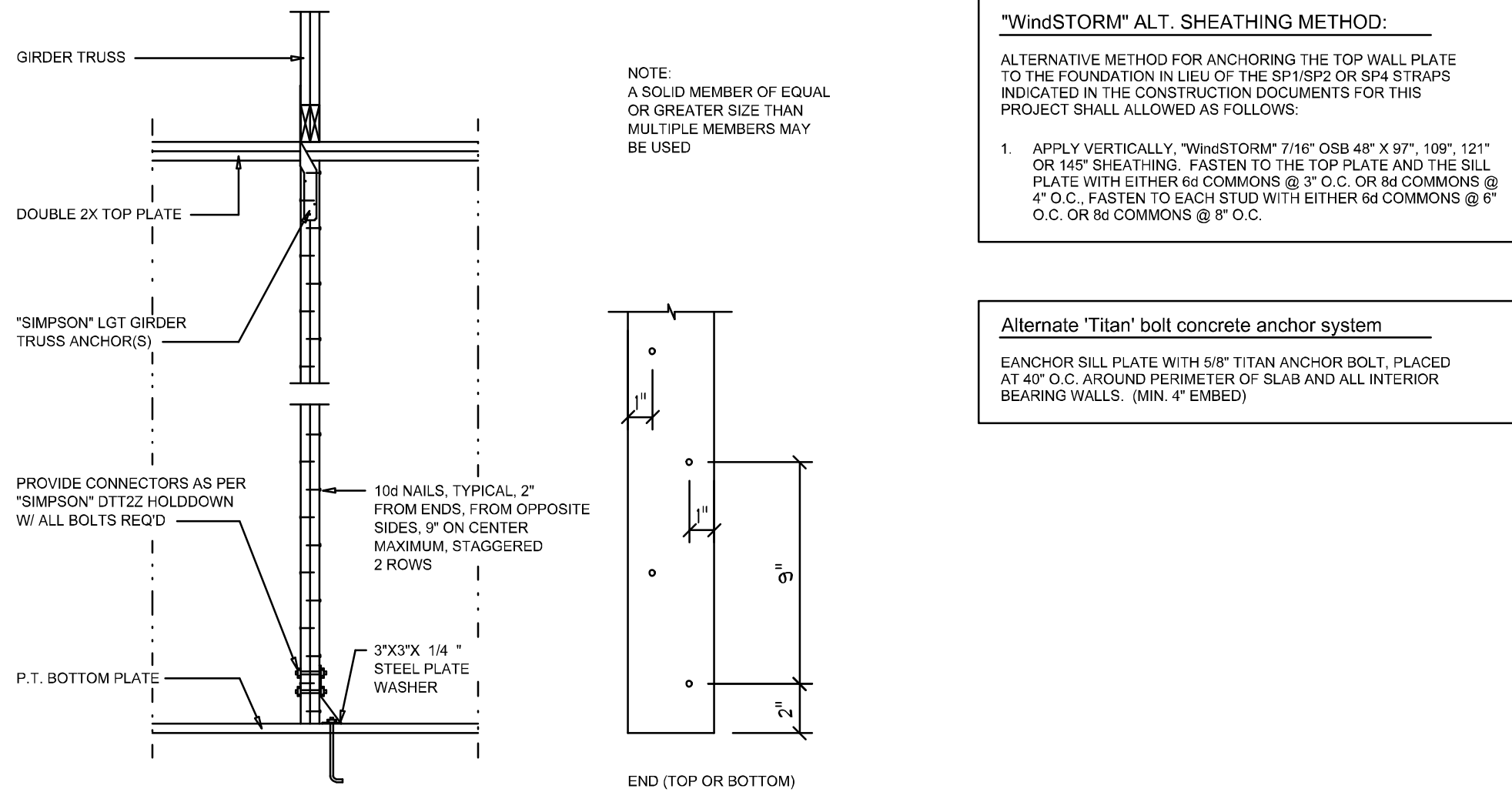
BEARING WALL HEADER

TYPICAL WINDOW HEADER

Wall Framing/Header DETAILS

SCALE: NONE

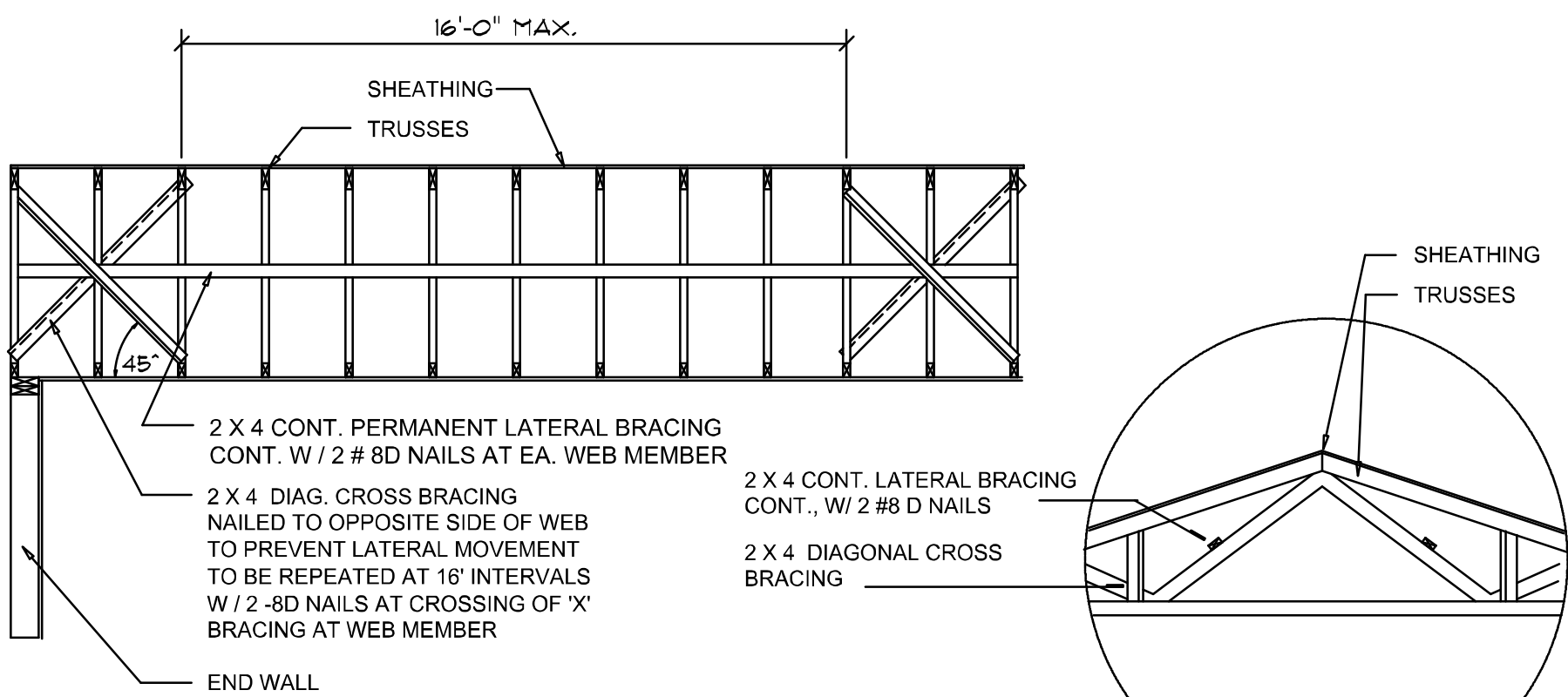
F



Girder Truss Column DET.

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

C



TYP. PERMANENT TRUSS BRACING DIA.

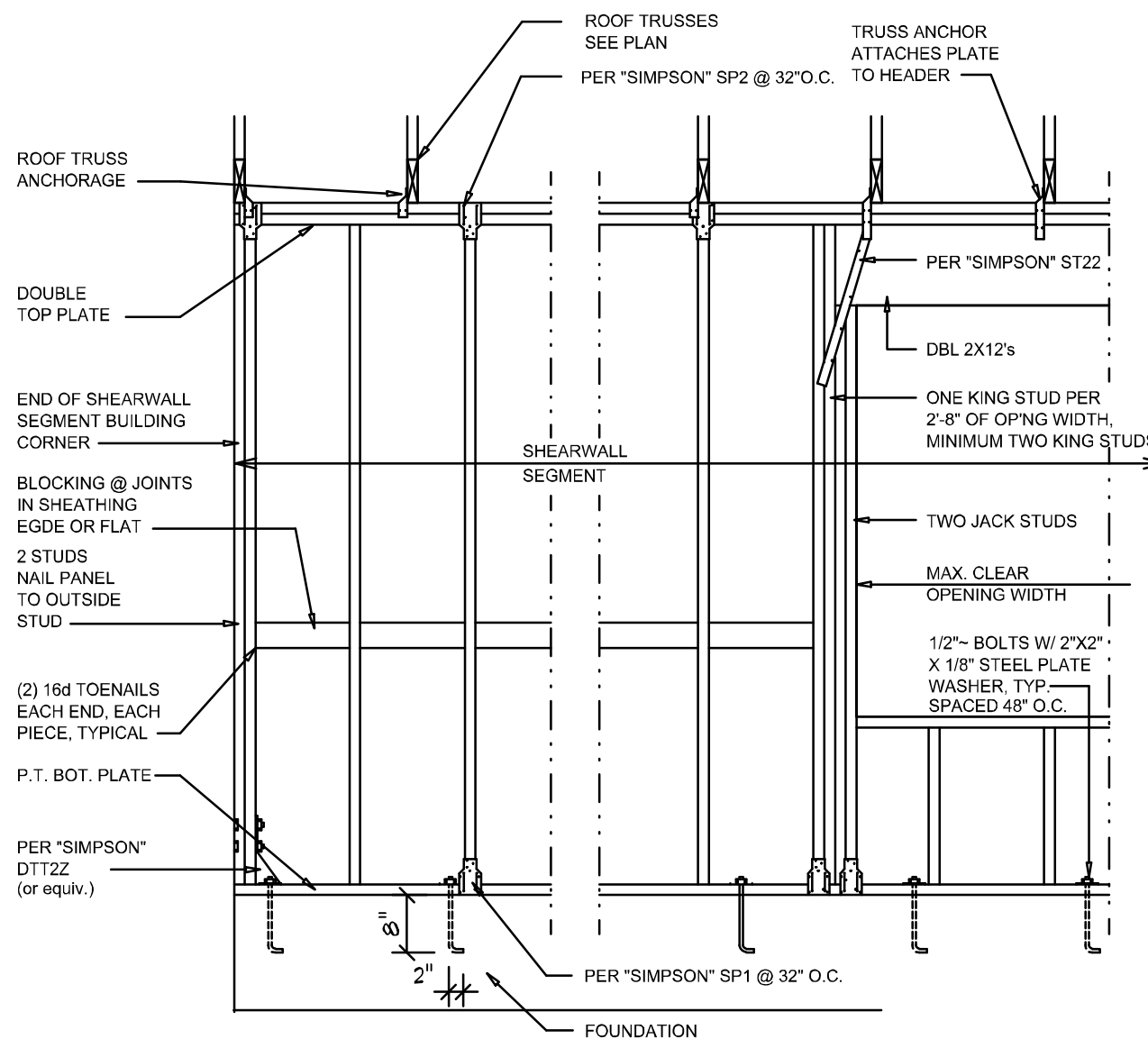
NTS

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

Truss Bracing DETAILS

SCALE: AS NOTED

D



SHEARWALL NOTES:

- ALL SHEARWALLS SHALL BE TYPE 2 SHEARWALLS AS DEFINED BY STD 10-97 SBCI 305.4.3.
- THE WALL SHALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. INCLUDING AREAS ABOVE AND BELOW OPENINGS.
- ALL SHEATHING SHALL BE ATTACHED TO FRAMING ALONG ALL FOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCCURRING OVER COMMON FRAMING MEMBERS OR ALONG BLOCKING.
- NAIL SPACING SHALL BE 4" O.C. EDGES AND 8" O.C. IN THE FIELD.
- TYPE 2 SHEARWALLS ARE DESIGNED FOR THE OPENING IT CONTAINS. MAXIMUM HEIGHT OF OPENING SHALL BE 5/8 TIMES THE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN OPENINGS SHALL BE THE WALL HEIGHT/3.5 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

Shear Wall DETAILS

SCALE: NONE

E

REVISIONS
June 06, 2023

SOFTPLAN
ARCHITECTURAL DESIGN SOFTWARE

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

A CUSTOM HOME DESIGN FOR:
Isaac & Marlene Hart
PROJECT ADDRESS: 159 SW GOVERNORS GLEN, LAKE CITY, FLORIDA 32024 (COLUMBIA COUNTY)

ARCOO1005

NICHOLAS PAUL ARCHITECT
N.C.A.R.B. Certified
1755 NW Brown Rd.
Lake City, FL 32065
(386) 365-4355

JOB NUMBER
20230503

SHEET NUMBER
S.4
OF 4 SHEETS

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS