TERMITE SPECIFICATIONS:

R318.1
TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS A PREVENTATIVE TREATMENT TO NEW CONSTRUCTION (SEE SECTION 202 , REGISTERED TERMITICIDE). UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

NOTES:

1. METHOD OF TREATMENT SHALL BE APPROVED BY THE GOVERNING JURISDICTION "LIQUID BORATE OR BOR-A-COR" PRODUCT METHODS MUST BE DETERMINED AT PERMIT STAGE AND PRODUCT APPROVAL DATA MUST BE ON FILE WITH THE BUILDING DEPARTMENT.
2. PRESSURE TREATED LUMBER THAT HAS BEEN CUT OR DRILLED THAT EXPOSES UNTREATED PORTIONS OF WOOD ARE REQUIRED TO BE FIELD TREATED TO PREVENT INSECT INFESTATION.
3. OPTIONAL BORATE APPLIED TO ALL FRAME MEMBERS WITHIN 24" A.F.F.

EXTERIOR COVERING

R703.7 EXTERIOR PLASTER.
INSTALLATION OF THESE MATERIALS SHALL BE IN COMPLIANCE WITH ASTM C926 AND ASTM C1063, OR ASTM C1787 AND THE PROVISIONS OF THIS CODE.

R703.7.1 LATH.
LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIALS. EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED WITH 1-1/2" LONG, 11 GAGE NAILS HAVING A 7/16" HEAD, OR 1-1/2" LONG, 16 GAGE STAPLES, SPACED IN ACCORDANCE WITH ASTM C1063 OR C1787, OR AS OTHERWISE APPROVED. (REFER TO PLAN SET FOR THE ENGINEERED METHOD FOR LATH ATTACHMENT)

LATHING ACCESSORIES:
ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIALS. WOOD APPLICATION; 16 GA X 1 1/2" LONG (3/4" - 1" CROWN) STAPLES @ 6" O.C. VERT/HORIZ INTO THE FRAMING MEMBERS. MASONRY APPLICATION; CONCRETE STUB NAIL, 3/8" (10 mm) HEAD DIA. MIN. @ 6" O.C. VERT/HORIZ. or COMPATIBLE ADHESIVES, EXTERIOR GUN-GRADE, CONSTRUCTION ADHESIVE WITH 1" DABS @ 6" O.C. or IN A SEMI-CONTINUOUS BEAD BETWEEN THE SOLID PLASTER BASE AND THE SOLID PORTION OF THE KEY ATTACHMENT FLANGE. CONTROLS JOINTS; INSTALL CONTROL JOINT LATHING ACCESSORIES IN CONFORMANCE WITH C1063. LATH SHALL NOT BE CONTINUOUS THROUGH CONTROL JOINTS, BUT SHALL BE STOPPED AND TIED AT EACH SIDE. All ACCESSORIES SHALL BE IN ACCORDANCE WITH THE LATEST ASTM C1063 & ASTM C1861.

R703.7.2 PLASTER.
PLASTERING WITH CEMENT PLASTER SHALL BE NOT LESS THAN THREE COATS WHERE APPLIED OVER ANY TYPE OF CODE-APPROVED LATH AND SHALL BE NOT LESS THAN TWO COATS WHERE DIRECTLY APPLIED OVER MASONRY, CONCRETE, CLAY BRICK, STONE, OR TILE. IF THE PLASTER SURFACE IS COMPLETELY COVERED BY VENEER OR OTHER FACING MATERIAL OR IS COMPLETELY CONCEALED, PLASTER APPLICATION NEED BE ONLY TWO COATS, PROVIDED TOTAL THICKNESS IS AS SET IN TABLE R702.1(1). CEMENT PLASTER SHALL BE IN ACCORDANCE WITH ASTM C926 AND MATERIAL SHALL BE IN ACCORDANCE WITH ONE OF THE TYPES LISTED IN R703.7.2.

R703.7.3 WATER-RESISTIVE BARRIERS.
WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED IN SECTION R703.2 AND, WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER. THE INDIVIDUAL LAYERS SHALL BE INSTALLED INDEPENDENTLY SUCH THAT EACH LAYER PROVIDES A SEPARATE CONTINUOUS PLANE AND ANY FLASHING (INSTALLED IN ACCORDANCE WITH SECTION R703.4) INTENDED TO DRAIN TO THE WATER-RESISTIVE BARRIER IS DIRECTED BETWEEN THE LAYERS.

R703.2 WATER-RESISTIVE BARRIER.
NOT FEWER THAN ONE LAYER OF WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS WITH FLASHING AS INDICATED IN SECTION R703.4, IN SUCH A MANNER AS TO PROVIDE A CONTINUOUS WATER-RESISTIVE BARRIER BEHIND THE EXTERIOR WALL VENEER. THE WATER-RESISTIVE BARRIER MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1. WATER-RESISTIVE BARRIER MATERIALS SHALL COMPLY WITH ONE OF THE FOLLOWING:
1. NO. 15 FELT COMPLYING WITH ASTM D226, TYPE 1.
2. ASTM E2568, TYPE 1 OR 2.
3. ASTM E331 IN ACCORDANCE WITH SECTION R703.11.
4. OTHER APPROVED MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NO. 15 ASPHALT FELT AND WATER-RESISTIVE BARRIERS COMPLYING WITH ASTM E2556 SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES (51MM), AND WHERE JOINTS OCCUR, SHALL BE LAPPED NOT LESS THAN 6 INCHES (152 mm).

R703.4 FLASHING.
APPROVED METAL FLASHING, VINYL FLASHING, SELF-ADHERED MEMBRANES AND MECHANICALLY ATTACHED FLEXIBLE FLASHING SHALL BE APPLIED SHINGLE-FASHION OR IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. METAL FLASHING SHALL BE CORROSION RESISTANT. FLUID-APPLIED MEMBRANES USED AS FLASHING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL FLASHING SHALL BE APPLIED IN A MANNER TO PREVENT THE ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA 711. ALL EXTERIOR FENESTRATION PRODUCTS SHALL BE SEALED AT THE JUNCTURE WITH THE BUILDING WALL WITH A SEALANT COMPLYING WITH AAMA 800 OR ASTM C920. CLASS 25 GRADE NS OR GREATER FOR PROPER JOINT EXPANSION AND CONTRACTION. ASTM C1281, AAMA 812, OR OTHER APPROVED STANDARD AS APPROPRIATE FOR THE TYPE OF SEALANT. FLUID-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY WITH AAMA 714. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH.
APPROVED FLASHINGS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS.
• EXTERIOR WINDOW/DOOR OPENINGS.
• INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME WALLS.
• UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
• CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
• WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.
• AT WALL AND ROOF INTERSECTION.
• AT BUILT-IN GUTTERS.

R703.12 ADHERED MASONRY VENEER INSTALLATION
ADHERED MASONRY VENEER [OR STONE VENEER] - INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF SECTION R703.7.3 AND THE REQUIREMENTS IN SECTIONS 12.1 AND 12.3 OF TMS 402/ACI 530/ASCE 5. ADHERED MASONRY VENEER SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R703.7.1, ARTICLE 3.3C OF TMS 602/ACI 530.1/ASCE 6 OR THE MANUFACTURER'S INSTRUCTIONS.

EXTERIOR CEILING LATH ATTACHMENT \
PER THE ASTM C
1063 7.10.2.2 DIAMOND-MESH EXPANDED METAL LATH, FLAT-RIB EXPANDED METAL LATH, AND WIRE LATH SHALL BE ATTACHED TO HORIZONTAL WOOD FRAMING MEMBERS WITH 1 1/2-IN. (38.1-MM) ROOFING NAILS DRIVEN FLUSH WITH THE PLASTER BASE AND ATTACHED TO VERTICAL WOOD FRAMING MEMBERS WITH 6D COMMON NAILS, OR 1-IN. (25-MM) ROOFING NAILS DRIVEN TO A PENETRATION OF NOT LESS THAN 3/4 IN. (19.1 MM), OR 1-IN. (25-MM) WIRE STAPLES DRIVEN FLUSH WITH THE PLASTER BASE. STAPLES SHALL HAVE CROWNS NOT LESS THAN 3/4 IN. (19.05 MM) AND SHALL ENGAGE NOT LESS THAN THREE STRANDS OF LATH AND PENETRATE THE WOOD FRAMING MEMBERS NOT LESS THAN 3/4 IN. (19.05 MM). WHEN METAL LATH IS APPLIED OVER SHEATHING, USE FASTNERS THAT WILL PENETRATE THE STRUCTURAL MEMBERS NOT LESS THAN 3/4 IN. (19 MM).

7.10.2.3. EXPANDED 3/8 IN. (9.5 MM) RIB LATH SHALL BE ATTACHED TO HORIZONTAL AND VERTICAL WOOD FRAMING MEMBERS WITH NAILS OR STAPLES TO PROVIDE NOT LESS THAN 1/34-IN. (44.5-MM) PENETRATION INTO HORIZONTAL WOOD FRAMING MEMBERS, AND 3/4-IN. (19.1-MM) PENETRATION INTO VERTICAL WOOD FRAMING MEMBERS.

7.10.2.4. COMMON NAILS SHALL BE BENT OVER TO ENGAGE NOT LESS THAN THREE STRANDS OF LATH OR BE BENT OVER A RIB WHEN RIB LATH IS INSTALLED.

7.10.2.5. SCREWS USED TO ATTACH METAL PLASTER BASE TO HORIZONTAL AND VERTICAL WOOD FRAMING MEMBERS SHALL PENETRATE NOT LESS THAN 5/8 IN. (15.9 MM) INTO THE MEMBER WHEN THE LATH IS INSTALLED AND SHALL ENGAGE NOT LESS THAN THREE STRANDS OF LATH. WHEN INSTALLING RIB LATH, THE SCREW SHALL PASS THROUGH, BUT NOT DEFORM, THE RIB.

COASTAL FLASHINGS:
ALL FLASHING MATERIAL FOR COASTAL LOCATIONS (EX: WITHIN 3,000 FEET OF THE OCEAN) SHALL BE CORROSION RESISTANT MATERIAL (EX: ZINC AND/OR STAINLESS STEEL) AND SHALL BE SELECTED FOR COMPATIBILITY WITH ADJACENT WOOD PRESERVATIVES PER THE MANUFACTURER'S RECOMMENDATIONS.

MASTER REVISIONS

DATE	DESCRIPTION

STRUCTURAL NOTES:

CAST IN PLACE CONCRETE

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI (SLABS) 3000 PSI (COLUMNS AND BEAMS), A SLUMP OF 5" PLUS OR MINUS 1", AND HAVE 2 TO 5% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.63.
2. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS.
3. HORIZONTAL FOOTING BARS SHALL BE BENT 25" AROUND CORNERS OR CORNER BARS WITH A 25" LAP PROVIDED EACH WAY.
4. CONCRETE COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1 1/2" TO FORM U.N.O.
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-1064/A-1064M. WWF SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6", OR POLYPROPYLENE FIBERS FOR SLABS ON GRADE TO BE MIN .75 LBS OF FIBER PER CUBIC YARD.
6. ALL REINFORCING STEEL / STIRRUPS AND TIES SHALL BE NEW DOMESTIC DEFORMED BARS FREE FROM RUST,SCALE & OIL & SHALL MEET ASTM 615, ASTM A706, OR ASTMA 996 GRADE 40 U.N.O. REINFORCING FOR FOOTING SHALL BE SUPPORTED ON PRE-CAST CONCRETE PADS, STEEL WIRE OR PLASTIC SUPPORTS. TOP REINFORCING SHALL BE POSITIVELY SUPPORTED BY TEMPORARY STRINGERS. DOWELS FOR COLUMNS & FILLED CELLS SHALL BE SECURED IN PLACE BY USING ADDITIONAL CROSS-REINFORCING TIED TO FOOTING REINFORCING. SPLICES IN REINFORCING WHERE PERMITTED SHALL BE AS PER DETAIL MS05/S-1.
7. HIGH STRENGTH SIMPSON "SET-3G" EPOXY-TIE ANCHORING ADHESIVE WAS USED IN THE DESIGN OF THIS PRODUCT. IF CONTRACTORS WISH TO USE A DIFFERENT EPOXY, THEY MUST FIRST CONTACT THE ENGINEER OF RECORD FOR WRITTEN APPROVAL.
8. WHERE PROJECT IS TO BE LOCATED IN KNOWN RADON GAS PREVALENT AREAS, APPENDIX "F" OF THE FLORIDA BUILDING CODE 8th. EDITION (2023) IS TO BE IMPLEMENTED. F303.4.1 CONCRETE STRENGTH IN THESE AREAS ARE TO BE A MINIMUM OF 3000 P.S.I. THEREFORE, ANY AND ALL NOTES ON THESE PLANS THAT INDICATE 2500 P.S.I. SHALL BE REPLACED WITH 3000 P.S.I. FOR THE CONCRETE STRENGTH.

MASONRY WALL CONST.

1. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90-2016A, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 2000 PSI (fm = 2000 PSI)
2. MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270-14A.
3. COARSE GROUT SHALL CONFORM TO ASTM C476-19 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI SLUMP 8" TO 11". CONTINUOUS MASONRY INSPECTIONS ARE REQUIRED DURING CONSTRUCTION.
4. GRADE 40 U.N.O. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT.
5. REINFORCING STEEL SHALL BE LAPPED PER DETAIL MS05/S-1, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
6. GROUT STOPS SHALL BE PROVIDED BELOW BOND BEAM. PLASTIC SCREEN, METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE FLOW OF GROUT INTO CELLS BELOW. THE USE OF FELT PAPER AS A STOP IS PROHIBITED.
7. TEMPORARY BRACING AND SHORING OF WALL TO PROVIDE STABILITY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
8. TYPICAL FILLED CELL REINFORCING SIZE AND SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
9. DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS AND NO CONCENTRATED LOADS FOR (7) DAYS. PER CODE ACI 318-19. 10. CONSOLIDATE AND RECONSOLIDATE GROUT POURS PER CODE. GROUT SHALL BE FLUSH WITH TOP OF WALL.

WOOD CONSTRUCTION

1. ALL EXTERIOR WOOD STUD WALLS, BEARING WALLS, SHEAR WALLS AND MISC, STRUCTURAL WOOD FRAMING MEMBERS, (I E BLOCKING OR GABLE END BRACING) SHALL BE EITHER AS SPECIFIED IN PLAN OR DETAILS. IF CONFLICTS OCCUR BETWEEN PLAN AND DETAILS, THE STRONGEST MATERIAL SHALL BE USED. AT A MINIMUM, ALL WOOD STRUCTURAL FRAMING MEMBERS SHALL BE S.P.F. #2.
2. ALL LUMBER SPECIFIED ON DRAWINGS ARE INTENDED FOR DRY USE ONLY (MOISTURE CONTENT 19% OR LESS), U.N.O. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
3. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIA. FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 STUD SHOES,TYP., U.N.O.
4. MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND TO SELECT APPROPRIATE CONNECTORS THAT RESIST CORROSION. FOR EXAMPLE, ACQ-C, ACQ-D, CBA-A OR CA-B REQUIRE HOT-DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS. DOT SODIUM BORATE (SBX) DOES NOT.
5. ALL EXPOSED WOOD OR WOOD IN CONTACT WITH EARTH OR CONCRETE TO BE PRESSURE TREATED.
6. UNTREATED WOOD SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE OR MASONRY. SEAT PLATES SHALL BE PROVIDED AT BEARING LOCATIONS WITHOUT WOODEN TOP PLATES.
7. SEE PLAN FOR STUD PACK AND BEAM NAILING PATTERNS.
8. ALL ENGINEERING LUMBER TO HAVE THE FOLLOWING MIN VALUES U.N.O.
PARALLAM COLUMNS: 1.8E Fb = 2400 PSI MICROLAM (LVL) BEAMS: 2.0E Fb= 2600 PSI GLULAM BEAMS: SP/SP 24F-V5 LAYUP 1.7E Fb=2400 PSI MIN.
9. SEE PLAN NOTE FOR ADDITIONAL ROOF, WALL, SHEAR WALL AND FLOOR SHEATHING REQUIREMENTS ALONG W/ NAILING INFORMATION OTHERWISE: ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR OR OSB FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24) SHEATHING SHALL FINISH FLUSH TO EXTERIOR WALL FACE. WALL SHEATHING: 7/16" STRUCTURAL I OSB EXPOSURE 1 OR 15/32" RATED OSB EXPOSURE 1 A MINIMUM 1/8" SPACE IS RECOMMENDED BETWEEN PANELS EDGES TO ALLOW FOR EXPANSION PER ASTM C1063 AND APA PLYWOOD DESIGN SPECIFICATIONS. SHEATHING SHALL NOT BE USED AS WEATHER RESISTANCE BARRIER UNLESS SPECIFIED BY MANUFACTURER.
10. LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIALS. EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED TO WOOD SHEATHING WITH 1 1/2" LONG, 11 GAGE NAILS HAVING A 7/16" HEAD, OR 1 1/2" LONG, 16 GAGE STAPLES IN ACCORDANCE WITH ASTM C1062 OR C1787, OR AS OTHERWISE APPROVED (REF. 2023 FBC-R-R703.7.1). (REFER TO SHEET WF138/S-1 FOR THE ENGINEERED METHOD FOR LATH ATTACHMENT)

PRE ENGINEERED WOOD TRUSSES

1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH HURRICANE CLIPS OR ANCHORS PER STRUCTURAL PLAN
2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS -GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPORTIONED (WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD.
4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS NOTED ON THE PLANS.
5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE FRAMING DESIGN LOADS.
6. DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION.
7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES. SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

UPLIFT CONNECTORS

1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT OR LATERAL 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 COORDINATE WITH THE TRUSS ENGINEER FOR THE LOCATION OF THESE WALLS, AND STRUCTURAL PLANS FOR MORE INFO.

FIELD REPAIR NOTES

1. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED WITH 1/2" DIA. EPOXY ANCHORS WITH 7" EMBEDMENT. SIMPSON "SET-3G" EPOXY ADHESIVE BINDER FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS OR SIMPSON 1/2" TITEN HD BOLTS WITH MINIMUM 7" EMBEDMENT. SEE PLAN FOR EMBEDMENT DEPTH AT FLOOR STEPS.
2. FOR MISSED VERT. DOWELS, 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 EMBEDMENT EPOXY (SIMPSON "SET-3G EPOXY-TIE ANCHORING ADHESIVE) MIXED PER THE MFGR'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO THE MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR.
3. FOR MORTAR 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).
4. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED WITH (1) SIMPSON MTSM16 TWIST STRAP W/ (4) 1/4"x 2 1/4" TITENS TO MASONRY AND (7)-10d NAILS TO TRUSS FOR UPLIFTS LESS THAN 860 LBS (USE (2) MTSM16 FOR UPLIFTS LESS THAN 1720#). IF CORNER STRAP IS MISSED CONTRACTOR TO INSTALL (2) SIMPSON HGAM10 W/ (4) 1/4" x 1 1/2" SDS SCREWS AND (5) 1/4" x 2 1/4" TITENS ONE EACH SIDE OF TRUSS.

   NO MORE THAN 10 STRAPS MAY BE SUBSTITUTED OR NO MORE THAN 3 IN A ROW WITHOUT APPROVAL FROM EOR. IF GIRDER TRUSS CONNECTIONS ARE MISSED, CONTACT THE EOR FOR SUBSTITUTION.
5. IF MISSED, MSTAM36 OR MSTAM40 STRAP IS MISSED FOR 2ND FLOOR JAMB STUD CONNECTION, CONTRACTOR MAY INSTALL SIMPSON HTT5 w/ (26) 16d x 2-1/2" NAILS AND 5/8" ANCHOR BOLT SET IN SIMPSON HIGH STRENGTH EPOXY W/ MIN 12" EMBEDMENT AND MIN 3" EDGE DISTANCE. CONTACT EOR IF STRAPS ARE MISSED UNDER GIRDER JAMB STUD LOCATIONS.

STRUCTURAL DESIGN CRITERIA

CODE CRITERIA

• FLORIDA BUILDING CODE 8TH EDITION (2023) RESIDENTIAL
• FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023)
• FLORIDA BUILDING CODE ACCESSIBILITY 8TH EDITION (2023) RESIDENTIAL
• NFPA 70-20, NATIONAL ELECTRICAL CODES (NEC 2020)
• BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE – (ACI 318-19)
• SPECIFICATIONS FOR STRUCTURAL CONCRETE – (ACI 301-20)
• BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES – (ACI 530-13)
• NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION – 2018 EDITION
• WOOD FRAMED CONSTRUCTION MANUAL 2018 EDITION
• APA PLYWOOD DESIGN SPECIFICATION E30-19
• AMERICAN SOCIETY OF CIVIL ENGINEERS: ASCE/SEI 7-22
• ALUMINUM DESIGN MANUAL – AAF-20 (AA ADM-2020)
1. CODE REQUIREMENTS: IT IS THE INTENT THAT ALL WORK SHALL CONFORM TO THE ADOPTED CODES, STANDARDS AND RULES OF THE ADMINISTRATIVE AUTHORITY HAVING JURISDICTION.
2. ALL WORK SHALL CONFORM WITH DRAWINGS AND SPECIFICATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL THE FOLLOWING WHERE APPLICABLE:
(A) GOVERNING MUNICIPAL AND REGULATORY AGENCIES
(B) LOCAL STATE AND FEDERAL BODIES

DEFLECTION CRITERIA

			COMMMENTS:
ROOF TRUSSES*	LL/360	TL/240	
ROOF RAFTERS	LL/180	TL/120	
ROOF RAFTERS (W/O CLG)	LL/360	TL/240	
FLOOR TRUSSES/ BEAMS **	LL/360	TL/240	
FLOOR I-JOIST***	LL/480	TL/240	

*TL MAX 2" UP TO 40FT SPAN
**TL MAX 3/4"
*** TL MAX 1/2"
**** TL MAX 1/4" DIFFERENTIAL BETWEEN ADJACENT TRUSSES

GENERAL ROOF LOADING

	SHINGLE/METAL ROOF (PSF)	FLAT ROOF (PSF)	TILE ROOF (PSF)	HEAVY ROOF (PSF)
TOP CHORD LL	20	30	20	20
TOP CHORD DL	10	10	15	25
BOTTOM CHORD LL*	0	0	0	0
BOTTOM CHORD DL	10	10	10	10
TOTAL (PSF)	40	50	45	55
BOTTOM CHORD LL (OPT) ATTICS W/ LIMITED STORAGE	20			
ATTICS W/ HEAVY STORAGE	50			
* ATTICS W/ NO STORAGE (NON-CONCURRENT)	10			

NOTE: LL REDUCTIONS ARE ALLOWED PER CODE BUT ONLY WITH WRITTEN APPROVAL FROM EOR OR INDICATED ON PLAN

GENERAL FLOOR LOADING

		COMMMENTS:
TOP CHORD LL	40 (PSF)	
TOP CHORD DL	10 (PSF)	
BOTTOM CHORD LL	0 (PSF)	
BOTTOM CHORD DL	5 (PSF)	

SPECIAL FLOOR LOADING

COMMENTS:
(PSF) = UNIFORM LOADS
(LBS) = CONCENTRATED LOADS
c. INDIVIDUAL STAIR TREADS SHALL BE CAPABLE OF SUPPORTING THE UNIFORMLY DISTRIBUTED LIVE LOAD OR A 300-POUND CONCENTRATED LOAD APPLIED ON AN AREA OF 2 INCHES BY 2 INCHES, WHICHEVER PRODUCES THE GREATER STRESSES.
d. A SINGLE CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. FOR A GUARD NOT REQUIRED TO SERVE AS A HANDRAIL, THE LOAD NEED NOT BE APPLIED TO THE TOP ELEMENT OF THE GUARD IN A DIRECTION PARALLEL TO SUCH ELEMENT.
f. BALUSTRADE AND PANELS FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA EQUAL TO 1 SQ. FT.
h. GLAZING USED IN HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED WITH A LOAD ADJUSTMENT FACTOR OF 4. THE LOAD ADJUSTMENT FACTOR SHALL BE APPLIED TO EACH OF THE CONCENTRATED LOADS APPLIED TO THE TOP OF THE RAIL, AND TO THE LOAD ON THE \ IN-FILL COMPONENTS. THESE LOADS SHALL BE DETERMINED INDEPENDENT OF ONE ANOTHER, AND LOADS ARE ASSUMED NOT TO OCCUR WITH ANY OTHER LIVE LOAD.
l. WHERE THE TOP OF A GUARD SYSTEM IS NOT REQUIRED TO SERVE AS A HANDRAIL, THE SINGLE CONCENTRATED LOAD SHALL BE APPLIED AT ANY POINT ALONG THE TOP, IN THE VERTICAL DOWNWARD DIRECTION AND IN THE HORIZONTAL DIRECTION AWAY FROM THE WALKING SURFACE. WHERE THE TOP OF A GUARD IS ALSO SERVING AS THE HANDRAIL, A SINGLE CONCENTRATED LOAD SHALL BE APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP.CONCENTRATED LOAD SHALL NOT BE APPLIED CONCURRENTLY.ANOTHER, AND LOADS ARE ASSUMED NOT TO OCCUR WITH ANY OTHER LIVE LOAD.

GAME ROOM		60 (PSF)
BALCONIES/ DECKS		40 (PSF)
BALCONIES OVER 100 SQ.FT		100 (PSF)
LIGHT STORAGE		125 (PSF)
LIBRARIES READING ROOMS		60 (PSF)
LIBRARIES STACK ROOMS		150 (PSF)
GUARDS		200 (LBS) (h,l)
HANDRAILS (d)		200 (PSF) (h)
GUARD RAILS IN FILL COMP. (f)		50 (PSF) (h)
STAIRS		40 (PSF) 300 (LBS)
NON SLEEPING ROOMS		40 (PSF)
SLEEPING ROOMS		30 (PSF)
HABITABLE ATTICS SERVED W/ FIXED STAIRS		30 (PSF)
PASSENGER VEHICLE GAR.		50 (PSF) 2000 (LBS)

GENERAL NOTES:

1. ALL EXTERIOR WALLS SHALL BE ASSUMED TO BE LOAD BEARING. SEE PLAN FOR C.M.U WALL REINFORCEMENT LOCATIONS.
2. WINDOW AND DOOR SUPPLIERS SHALL PROVIDE ROUGH OPENING INFO WHICH SHALL HAVE PRECEDENCE OVER THE PLAN.
3. CABINET MFRS. SHOP DRAWINGS SHALL HAVE PRECEDENCE OVER THE INTERIOR CABINET ELEVATIONS IF SHOWN.
4. DO NOT SCALE PLANS. DIMENSIONS ARE TO BE FOLLOWED AS INDICATED.
5. ALL GLASS LOCATED IN HAZARDOUS LOCATIONS SHALL COMPLY WITH SECTION R308 OF THE FLORIDA BUILDING

COLUMN SCHEDULE

MARK	COLUMN SIZE	(BASE) CONN. & FASTENER	UPLIFT(Lb)
C1	(3) 2 x 4 #2 SPF	(4) - 16d TOENAILS	0
C2	(3) 2 x 4 #2 SPF	DTT2Z W/ 1/2" WEDGE ANCHOR* & (8) 1/4" X 1 1/2" SDS SCREWS	2145
C3	(3) 2 x 4 SYP #1 -OR-	(4) - 16d TOENAILS	0
C4	(4) 2 x 4 SPF #2	DTT2Z W/ 1/2" WEDGE ANCHOR* & (8) 1/4" X 1 1/2" SDS SCREWS	2145
C5	4 x 4 P.T.#2 SYP POST	ABU44 W/ 5/8" ATR** & (12) - 16d NAILS	G = 6665 U = 2200
C6	6 x 6 P.T. #2 SYP POST	ABU66 W/ 5/8" ATR** & (12) - 16d NAILS	G = 12000 U = 2300
C7	8 x 8 P.T. #2 SYP POST	ABU88 W/ (2) - 5/8" ATR** & (18) - 16d NAILS	G = 24335 U = 2320
C8	3.5 x 3.5 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDU5-SDS2.5 W/ (14) 1/4" x 2 1/2" SDS WS & 5/8" EPOXY ANCHOR, OR ATR**	5645
C9	3.5 x 5.25 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDU5-SDS2.5 W/ (14) 1/4" x 2 1/2" SDS WS & 5/8" EXOPY ANCHOR, OR ATR**	5645
C10	3.5 x 7 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDU8-SDS2.5 W/ (20) 1/4" x 2 1/2" SDS WS & 7/8" EPOXY ANCHOR, OR ATR**	6970
C11	5.25 x 5.25 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDU8-SDS2.5 W/ (20) 1/4" x 2 1/2" SDS WS & 7/8" EPOXY ANCHOR, OR ATR***	7870
C12	7 x 7 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDU8-SDS2.5 W/ (20) 1/4" x 2 1/2" SDS WS & 7/8" EPOXY ANCHOR, OR ATR**	7870
C13	5.25" x 7" P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDU8-SDS2.5 W/ 7/8" ATR AND (20) 1/4" x 1/2" SDS WOOD SCREWS	7870

GENERAL COLUMN NOTES

1. SEE FLOOR PLAN FOR WALL WIDTH. STUD PACKS TO MATCH WALL WIDTH UNO.
2. ALL STRUCTURAL LUMBER TO BE SYP #1 OR SPF #2 UNO ON PLAN.
3. NAIL BUILT UP STUDS PER DETAIL WF37
4. MINIMUM BOLT EMBEDMENT:
   5" EMBEDMENT FOR 1/2" ATR
   6" EMBEDMENT FOR 5/8" ATR
   8" EMBEDMENT FOR 7/8" ATR
5. IF [C] COLUMN IS INDICATED ON SECOND FLOOR, THE BASE CONNECTION IS NOT REQUIRED. (SEE INDICATED CALL OUT ON PLAN FOR ATTACHMENT)
6. SEE WOOD CONSTRUCTION NOTE #4 ON COVER SHEET FOR CORROSION INFORMATION
7. SAME NOMINAL SIZE PARALLAM COLUMNS (1.8E) MAY BE SUBSTITUTED FOR ANY P.T. SYP POST NOTED IN THE PLANS

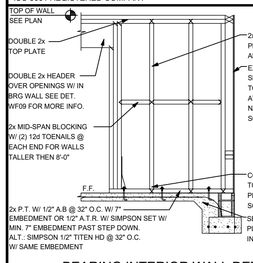
COMMON NAIL vs. PNEUMATIC GUN NAILS:

COMMON NAIL	DIA. / LENGTH	PNEUMATIC GUN NAIL DIA.-LENGTH	COMMON vs. GUN NAIL SPACING	APPLICATION
8d	0.131" X 2 1/2"	0.131" X 2 1/2"	SEE PLAN RING SHANK ON ROOF	SHEATHING ROOF & WALLS
10d OR 12d	0.148" X 3" 0.148"X. 3 1/4"	0.131" X 3" 0.131"X. 3 1/4"	SEE PLAN	BLOCKING & TOE NAILS & TOP PLATE
12d	0.148" X 3 1/4"	0.131" X 3 1/4"	8" O.C.(COMMON) 6" O.C.(GUN NAIL)	STUD WALL CORNERS
10d	0.148" X 3"	0.131" X 3"	8" O.C.(COMMON) 6" O.C.(GUN NAIL)	STUD PACK COLUMNS
16d	0.162" X 3 1/2"	0.131" X 3 1/4"	(2) 16D(COMMON) (3) 16D (GUN NAILS)	SEE PLAN

SIMPSON SDWC WOOD BEARING WALL SCHEDULE

MARK	STUD SPACE	CONNECTION & FASTENERS DBL TOP PLATE	SINGLE BOTTOM PLATE	LUMBER SPECIES	UPLIFT CAP. [plf]
BW1	16"	(2)16d TOENAILS	(3) 12d TOENAILS OR (2) 12d END OR BOX NAILS	#2 SPF	NO UPLIFT
BW2	16"	(2) SDWC 15600 SCREWS	(2) SDWC 15450 SCREWS	#2 SPF	446
BW3	16"	(2) SDWC 15600 SCREWS	(3) SDWC 15450 SCREWS	#2 SPF	670
BW4	16"	(2)16d TOENAILS	(3) 12d TOENAILS OR (2) 12d END OR BOX NAILS	#2 SYP	NO UPLIFT
BW5	16"	(2) SDWC 15600 SCREWS	(3) SDWC 15450 SCREWS	#2 SYP	775
BW6	16"	(3) SDWC 15600 SCREWS	(3) SDWC 15600 SCREWS	#2 SYP	970
BW7	12"	(2)16d TOENAILS	(3) 12d TOENAILS OR (2) 12d END OR BOX NAILS	#2 SPF	NO UPLIFT
BW8	12"	(2) SDWC 15600 SCREWS	(2) SDWC 15450 SCREWS	#2 SPF	595
BW9	12"	(2) SDWC 15600 SCREWS	(3) SDWC 15450 SCREWS	#2 SPF	895
BW10	12"	(2)16d TOENAILS	(3) 12d TOENAILS OR (2) 12d END OR BOX NAILS	#2 SYP	NO UPLIFT
BW11	12"	(2) SDWC 15600 SCREWS	(3) SDWC 15450 SCREWS	#2 SYP	1035
BW12	12"	(3) SDWC 15600 SCREWS	(3) SDWC 15600 SCREWS	#2 SYP	1295

NOTE: STRONG-DRIVE STRUCTURAL WOOD SCREWS FOR TRUSS/RAFTER, STUD-TO-PLATE, AND FLOOR-TO-FLOOR CONNECTIONS ARE MANUFACTURED AND TRANDEMARKED BY "SIMPSON STRONG-TIE COMPANY, INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA. 94588 TEL: (800) 888-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY



BEARING INTERIOR WALL DETAIL

GENERAL NOTES

1. SEE FLOOR PLAN FOR WALL SIZE, ASSUME 2x4 STUDS USED UNO.
2. ALL STRUCTURAL LUMBER TO BE SYP #1 OR SPF #2 UNO ON PLAN.
3. CONNECTIONS TO BE INSTALLED TO EACH STUD AS INDICATED
4. CONTACT E.O.R. IF SPF/S SPR'S OR SPF/S CONNECTORS ARE SUBSTITUTED, TO VERIFY THEY MEET THE STRUCTURAL REQUIREMENTS
5. IF "BW" IS INDICATED ON SECOND FLOOR BASE CONNECTION TO IGNORED. SEE WF06/S3.1 OR INDICATED DETAIL FOR PROPER CONNECTIONS FOR 2nd FLOOR TO FIRST FLOOR CONNECTIONS.(NOTE: THIS IS FOR 2 STORY PROJECTS ONLY)
6. IF "SW" IS INDICATED THE WALL IS CONSIDERED A SHEARWALL AND REQUIRES MIN. 7/16" OSB PLYWOOD W/ 8d NAILS AT 4" O.C. IN FIELD AND EDGE TO (1) SIDE OF WALL.
7. ALL 2x EXTERIOR WALLS W/ EXTERIOR SHEATHING ATTACHED PER NAILING SCHEDULE ACT AS SHEARWALLS. SEE PLAN AND WALLS SECTIONS FOR STUD SPACING AND GRADE.
8. IF THE BEARING WALL IS INDICATED WITH THE BW1, BW4, BW7, BW10 THESE WALLS ARE ONLY SUPPORTING THE FLOOR LOAD AND DO NOT HAVE UPLIFT. THE STUDS ARE TOE NAILED TO THE PLATE AND THE 2x PLATE CAN BE ATTACHED WITH HARD CASED NAILS (GUN NAILS) AND WILL NOT REQUIRE THE ANCHOR BOLT ATTACHMENT INDICATED IN THE BEARING WALL SCHEDULE.

BEAM SCHEDULE

MARK	BEAM SIZE	CONNECTIONS
BM1	(2) - 2 x 8 #2 SYP W/ 7/16" OSB FLITCH PLATE. NAIL BEAM TOGETHER USING (2) ROWS OF 12d NAILS @ 12" O.C. TYP EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA18 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM2	(2) - 2 x 10 #2 SYP W/ 7/16" OSB FLITCH PLATE. NAIL BEAM TOGETHER USING (2) ROWS OF 12d NAILS @ 12" O.C. TYP EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM3	(2) - 2 x 12 #2 SYP W/ 7/16" OSB FLITCH PLATE. NAIL BEAM TOGETHER USING (2) ROWS OF 12d NAILS @ 12" O.C. TYP EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM4	(2) - 1 3/4" x 11 1/4" LVL 2.0E Fb=2600 PSI. NAIL BEAM TOGETHER USING (2) ROWS 1/4" x 3 1/2" SDS WOOD SCREWS @ 16" O.C. TYP. EACH SIDE.	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM5	(2) - 1 3/4" x 11 7/8" LVL 2.0E Fb=2600 PSI. NAIL BEAM TOGETHER USING (2) ROWS 1/4" x 3 1/2" SDS WOOD SCREWS @ 16" O.C. TYP. EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM6	(2) - 1 3/4" x 16" LVL 2.0E Fb=2600 PSI. NAIL BEAM TOGETHER USING (2) ROWS 1/4" x 3 1/2" SDS WOOD SCREWS @ 16" O.C. TYP. EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.

GENERAL BEAM NOTES

1. VERIFY WITH PLAN CORRECT LENGTH OF BEAMS REQUIRED (MIN. 4" BEARING EACH END).
2. SEE PLAN FOR TOP OR BOTTOM OF BEAM INDICATIONS.
3. BEAMS ARE NOT TO BE DRILLED OR NOTCHED IN ANY WAY WITHOUT WRITTEN APPROVAL FROM THE E.O.R.

HEADER SCHEDULE

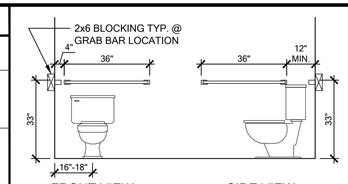
MARK	HEADER SIZE	REMARKS
H1	(2) - 2X6 #2 SYP W/ 1/2" INSULATION BOARD ON INTERIOR FACE	SEE GENERAL HEADER NOTE #5 THIS SHEET & HDR/S-2 DETAIL
H2	(2) - 2X8 #2 SYP W/ 1/2" INSULATION BOARD ON INTERIOR FACE	SEE GENERAL HEADER NOTE #5 THIS SHEET & HDR/S-2 DETAIL
H3	(2) - 2X10 #2 SYP W/ 1/2" INSULATION BOARD ON INTERIOR FACE	SEE GENERAL HEADER NOTE #5 THIS SHEET & HDR/S-2 DETAIL
H4	(2) - 2X12 #2 SYP W/ 1/2" INSULATION BOARD ON INTERIOR FACE	SEE GENERAL HEADER NOTE #5 THIS SHEET & HDR/S-2 DETAIL
H5	(2) - 1 3/4" X 11 1/4 LVL 2.0E Fb=2600 PSI	ATTACH TOGETHER W/ (2) ROWS 1/4" X 3 1/2" SDS WD SCREWS @ 16" O.C. TYP. EACH SIDE
H6	(2) - 1 3/4" X 9 1/4 LVL 2.0E Fb=2600 PSI	ATTACH TOGETHER W/ (3) ROWS 1/4" X 3 1/2" SDS WD SCREWS @ 16" O.C. TYP. EACH SIDE

HEADER SUPPORT NO. OF JACKS & STUDS REQ. AT OPENINGS

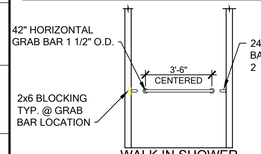
OPENING SIZE	2x4 WALL JACKS EA. END	2x4 WALL KINGS EA. END	2x6 OR 2x8 WALL JACKS EA. END	2x6 OR 2x8 WALL KINGS EA. END
1'-0" - 3'-11"	(1)	(2)	(1)	(2)
4'-0" - 9'-11"	(2)	(3)	(2)	(2)
10'-0" - 16'-0"	(3)	(4)	(3)	(4)

GENERAL HEADER NOTES

1. VERIFY W/ PLAN CORRECT LENGTH OF HEADER REQUIRED
2. IF HEADER IS ON THE 1st FLOOR SEE PLAN FOR BEARING WALL TYPE AND FOLLOW INSTRUCTIONS WITHIN BEARING WALL SCHEDULE FOR REQUIRED CORRECTIONS UNO ON PLAN
3. IF HEADER IS ON THE 2nd FLOOR SEE PLAN FOR INDICATED HEADER CONNECTION FOR REQUIRED CONNECTIONS.
4. ALL HEADER JACK AND KING STUDS SHALL BE FASTENED TO EACH PER DETAIL WF37.
5. FASTEN ALL MULT-PLY HEADERS TOGETHER W/ (2) ROWS 10d COMMON NAILS AT 12" o.c. ALONG EACH EDGE OR (3) ROWS IF 2x10 OR LARGER.
6. FASTEN ALL HEADERS TO KING STUDS WITH (3) 12d TOENAILS PER SIDE
7. IF HEADER IS NOT SPECIFIED CONTACT E.O.R.
8. REFER TO DETAIL HDR/S-2 & WF09/S-2 FOR HEADER CONNECTIONS

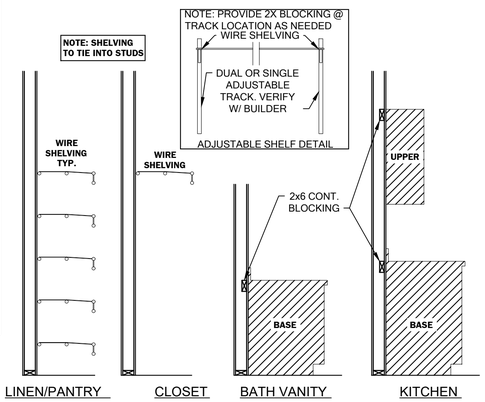


TYP.	GRAB BAR LOCATIONS DETAIL	N.T.S.



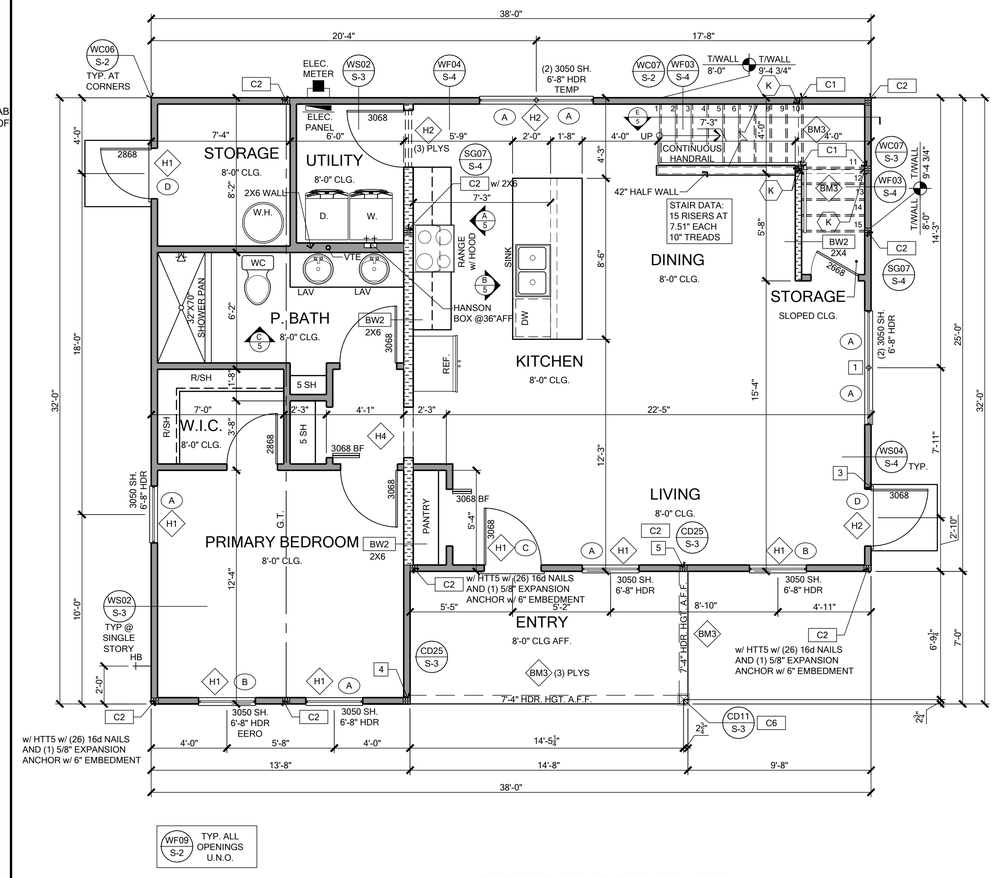
WALK IN SHOWER (NO RECESS)

TYP.	HANDICAP SHWR./TUB BLOCKING	N.T.S.



(VERIFY HEIGHTS W/ CABINET MANUFACTURER)

TYP.	CABINET/SHELF DETAIL	N.T.S.



FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0" @ 22X34

AREA TABULATION

FIRST FLOOR	1046	SQ.FT.
SECOND FLOOR	571	
TOTAL LIVING AREA	1617	
ENTRY	103	
TOTAL AREA UNDER ROOF	1720	SQ.FT.

NOTE:

INDICATES OPENINGS WIND PRESSURES. SEE WIND LOADING CRITERIA ON COVER SHEET FOR INFORMATION.

WALL LEGEND

FRAMED WALL

BEARING FRAME WALL

GENERAL NOTES

1. R302.6 (table 302.6) If water based ceiling texture material is used, Provide 1/2" gypsum board for 16" O.C. Framing, or 5/8" gypsum board for 24" O.C. Framing. Note 1/2" sag-resistant gypsum board may be used I.L.O. 5/8" gypsum board. 5/8" type "X" gypsum board must be installed on garage ceiling beneath habitable room(s).
2. R302.5.2 Duct Penetration. Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel, 1 inch minimum rigid nonmetallic class 0 or class 1 duct board, or other approved material and shall not have openings into the garage.
3. R302.5.1 Door from garage into house must be a minimum 1 3/8" solid wood door, solid or honeycomb core steel door, or 20 Minute fire rated door.
4. R302.7 Enclosed space under stairs that is accessed by a door or access panel shall have walls, under-stair surface and any soffits protected on the enclosed side with 1/2" gypsum board.
5. Outdoor swimming pools shall be provided with a barrier complying with R4501.17.1.1 through R4501.17.1.14.
6. Bathroom exhaust fans must vent to the exterior of the building, exhaust to attic space and soffits is not acceptable. Ventilation shall be permitted to exit through the soffit if solid soffit is installed 5'-0" on each side of the venting.
7. R302.6 The garage shall be separated from the residence and it's attic as required by Table R302.6. From the residence and attics by not less than 1/2-inch (12.7mm) gypsum board applied to the garage side. Garage beneath rooms shall be separated from all habitable rooms above by not less than 5/8 inch (15.9mm) type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also protected by not less than 1/2 inch (12.7mm) gypsum board or equivalent.
8. R312.2.1Window sills. In dwelling units, where the bottom of the clear opening of an operable window opening is located less than 24 inches (610 mm) above the finished floor and greater than 72 inches (1829 mm) above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following:
   1. Operable windows with openings that will not allow a 4-inch diameter (102 mm) sphere to pass through the opening where the opening is in its largest opened position.
   2. Operable windows that are provided with window fall prevention devices that comply with ASTM F2090.
   3. Operable windows that are provided with window opening control devices that comply with Section R312.2.2.
9. R308.4.2 All windows within 2'-0" of doors and in shower or tub areas will be safety tempered glass.
10. EC: R402.2.4 Vertical or horizontal access doors from conditioned spaces to unconditioned spaces such as attics and crawl spaces shall be weather stripped and insulated to a level equivalent to the insulation on the surrounding surfaces.
11. M1502.4.5 Duct length
    The maximum allowable exhaust duct length shall be determined by one of the methods specified in sections
    M1502.4.5.1 through M1502.4.5.3
    M1502.3 Duct termination.
    Exhaust ducts shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. If the manufacturer's instructions do not specify a termination location, the exhaust duct shall terminate not less than 3 feet (914 mm) in any direction from openings into buildings, including openings in ventilated soffits. Exhaust duct terminations shall be equipped with a backdraft damper. Screens shall not be installed at the duct termination.
12. Porch Ceilings: (See plan for the following options)
    Option 1. Gypsum:
    1/2" exterior gypsum soffit board shall be attached to all framing members with 2x blocking provided at perimeter and panel edges. The gypsum board shall be attached w/ Type "W" 1 1/4" drywall screws at 8" O.C. in filed and edges.
    Option 2. Plaster Base:
    7/16" OSB on underside of roof trusses shall be attached to all framing members with 2x blocking provided at perimeter and panel edges. The OSB shall be attached w/ 8d nails at 6" O.C. field and 4" O.C. at edges or 7d screw shank 3" O.C. field and 4" edges.
13. Energy Code Compliance Path is Performance Based Path. Code cycle is FBC 2023 8th Edition.

1. (2) - 1 3/4"x7 1/4" LVL 2.0E Fb=2600 PSI. ATTACH TOGETHER w/ (2) ROWS OF 10d NAILS @ 12" O.C STAGGERED 6" ON EA SIDE
2. (3) - 2x12 SYP w/ 7/16" OSB FLITCH PLATE. ATTACH TOGETHER w/ (2) ROWS OF 16d NAILS @ 12" O.C. TYP. EACH SIDE
3. PROVIDE DTT2Z AT BASE OF KING STUD w/ 1/2" WEDGE ANCHOR* & (8) 1/4"x1 1/2" SDS SCREWS
4. HU610 OPT HUC610 w/ (14) 0.162"x3 1/2" & (6) 0.162"x3 1/2" NAILS w/ C2 COLUMN OR POCKET INTO WALL w/ SOLID FRAMING BELOW PER CD30/S-5. HTT5 HOLDOWNS ARE REQUIRED AT THE BASE OF STUDS FOR EITHER CONDITION.

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100% Employee Owned
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ABD ATA fhba GOBA

MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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Orlando, Fl. 32808
office: (407) 648-4567
habitatorlandoosceola.org

LOT: BLK: UNIT:
Community:
Plan Name: 1400 Mercy Drive
Project Address: 1234 South Road City Florida 123456
Client No: Client No.
Elev: Garage: Version: 0.0

Project No: 25-09339
Sheet No: 2

Saved BY: ERNEST0.SOTO Date: 7/16/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing Files\25-09339 Mercy Drive Model.dwg

COLUMN SCHEDULE

MARK	COLUMN SIZE	(BASE) CONN. & FASTENER	UPLIFT(Lb)
C1	(3) 2 x 4 #2 SPF	(4) - 16d TOENAILS	0
C2	(3) 2 x 4 #2 SPF	DTT2Z W/ 1/2" WEDGE ANCHOR* & (8) 1/4" X 1 1/2" SDS SCREWS.	2145
C3	(3) 2 x 4 SYP #1 -OR-	(4) - 16d TOENAILS	0
C4	(4) 2 x 4 SPF #2	DTT2Z W/ 1/2" WEDGE ANCHOR* & (8) 1/4" X 1 1/2" SDS SCREWS	2145
C5	4 x 4 P.T.#2 SYP POST	ABU44 W/ 5/8" ATR** & (12) - 16d NAILS	G = 6665 U = 2200
C6	6 x 6 P.T. #2 SYP POST	ABU66 W/ 5/8" ATR** & (12) - 16d NAILS	G = 12000 U = 2300
C7	8 x 8 P.T. #2 SYP POST	ABU88 W/ (2) - 5/8" ATR** & (18) - 16d NAILS	G = 24335 U = 2320
C8	3.5 x 3.5 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDUS-SDS2.5 W/ (14) 1/4" x 2 1/2" SDS WS & 5/8" EPOXY ANCHOR, OR ATR**	5645
C9	3.5 x 5.25 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDUS-SDS2.5 W/ (14) 1/4" x 2 1/2" SDS WS & 5/8" EXOPY ANCHOR, OR ATR**	5645
C10	3.5 x 7 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDUS-SDS2.5 W/ (20) 1/4" x 2 1/2" SDS WS & 7/8" EPOXY ANCHOR, OR ATR**	6970
C11	5.25 x 5.25 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDUS-SDS2.5 W/ (20) 1/4" x 2 1/2" SDS WS & 7/8" EPOXY ANCHOR, OR ATR**	7870
C12	7 x 7 P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDUS-SDS2.5 W/ (20) 1/4" x 2 1/2" SDS WS & 7/8" EPOXY ANCHOR, OR ATR**	7870
C13	5.25" x 7" P.L. 1.8E Fb=2400 PSI (WOLMANIZED IF EXT.)	HDUS-SDS2.5 W/ 7/8" ATR AND (20) 1/4" x 1/2" SDS WOOD SCREWS	7870

GENERAL COLUMN NOTES

1. SEE FLOOR PLAN FOR WALL WIDTH. STUD PACKS TO MATCH WALL WIDTH UNO.
2. ALL STRUCTURAL LUMBER TO BE SYP #1 OR SPF #2 UNO ON PLAN.
3. NAIL BUILT UP STUDS PER DETAIL WF37
4. MINIMUM BOLT EMBEDMENT:
   5" EMBEDMENT FOR 1/2" ATR
   6" EMBEDMENT FOR 5/8" ATR
   8" EMBEDMENT FOR 7/8" ATR
5. IF [C] COLUMN IS INDICATED ON SECOND FLOOR, THE BASE CONNECTION IS NOT REQUIRED. (SEE INDICATED CALL OUT ON PLAN FOR ATTACHMENT)
6. SEE WOOD CONSTRUCTION NOTE #4 ON COVER SHEET FOR CORROSION INFORMATION
7. SAME NOMINAL SIZE PARALLAM COLUMNS (1.8E) MAY BE SUBSTITUTED FOR ANY P.T. SYP POST NOTED IN THE PLANS

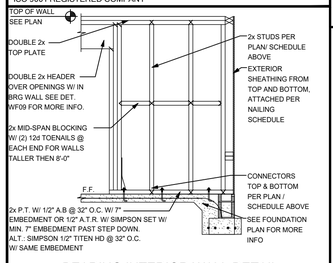
COMMON NAIL vs. PNEUMATIC GUN NAILS:

COMMON NAIL	DIA. / LENGTH	PNEUMATIC GUN NAIL DIA.-LENGTH	COMMON vs. GUN NAIL SPACING	APPLICATION
8d	0.131" X 2 1/2"	0.131" X 2 1/2"	SEE PLAN RING SHANK ON ROOF	SHEATHING ROOF & WALLS
10d OR 12d	0.148" X 3" 0.148" X 3 1/4"	0.131" X 3" 0.131" X 3 1/4"	SEE PLAN	BLOCKING & TOE NAILS & TOP PLATE
12d	0.148" X 3 1/4"	0.131" X 3 1/4"	8" O.C.(COMMON) 6" O.C.(GUN NAIL)	STUD WALL CORNERS
10d	0.148" X 3"	0.131" X 3"	8" O.C.(COMMON) 6" O.C.(GUN NAIL)	STUD PACK COLUMNS
16d	0.162" X 3 1/2"	0.131" X 3 1/4"	(2) 16D(COMMON) (3) 16D (GUN NAILS)	SEE PLAN

SIMPSON SDWC WOOD BEARING WALL SCHEDULE

MARK	STUD SPACE	CONNECTION & FASTENERS DBL TOP PLATE	SINGLE BOTTOM PLATE	LUMBER SPECIES	UPLIFT CAP. [plf]
BW1	16"	(2)16d TOENAILS	(3) 12d TOENAILS OR (2) 12d END OR BOX NAILS	#2 SPF	NO UPLIFT
BW2	16"	(2) SDWC 15600 SCREWS	(2) SDWC 15450 SCREWS	#2 SPF	446
BW3	16"	(2) SDWC 15600 SCREWS	(3) SDWC 15450 SCREWS	#2 SPF	670
BW4	16"	(2)16d TOENAILS	(3) 12d TOENAILS OR (2) 12d END OR BOX NAILS	#2 SYP	NO UPLIFT
BW5	16"	(2) SDWC 15600 SCREWS	(3) SDWC 15450 SCREWS	#2 SYP	775
BW6	16"	(3) SDWC 15600 SCREWS	(3) SDWC 15600 SCREWS	#2 SYP	970
BW7	12"	(2)16d TOENAILS	(3) 12d TOENAILS OR (2) 12d END OR BOX NAILS	#2 SPF	NO UPLIFT
BW8	12"	(2) SDWC 15600 SCREWS	(2) SDWC 15450 SCREWS	#2 SPF	595
BW9	12"	(2) SDWC 15600 SCREWS	(3) SDWC 15450 SCREWS	#2 SPF	895
BW10	12"	(2)16d TOENAILS	(3) 12d TOENAILS OR (2) 12d END OR BOX NAILS	#2 SYP	NO UPLIFT
BW11	12"	(2) SDWC 15600 SCREWS	(3) SDWC 15450 SCREWS	#2 SYP	1035
BW12	12"	(3) SDWC 15600 SCREWS	(3) SDWC 15600 SCREWS	#2 SYP	1295

NOTE: STRONG-DRIVE STRUCTURAL WOOD SCREWS FOR TRUSS/RAFTER, STUD-TO-PLATE, AND FLOOR-TO-FLOOR CONNECTIONS ARE MANUFACTURED AND TRANDEMARKED BY "SIMPSON STRONG-TIE COMPANY, INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA. 94588 TEL: (800) 888-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY



BEARING INTERIOR WALL DETAIL

GENERAL NOTES

1. SEE FLOOR PLAN FOR WALL SIZE, ASSUME 2x4 STUDS USED UNO.
2. ALL STRUCTURAL LUMBER TO BE SYP #1 OR SPF #2 UNO ON PLAN.
3. CONNECTIONS TO BE INSTALLED TO EACH STUD AS INDICATED
4. CONTACT E.O.R. IF SPF/S SPF/S OR SPF/S CONNECTORS ARE SUBSTITUTED, TO VERIFY THEY MEET THE STRUCTURAL REQUIREMENTS
5. IF "BW" IS INDICATED ON SECOND FLOOR BASE CONNECTION TO IGNORED. SEE WF06/S3.1 OR INDICATED DETAIL FOR PROPER CONNECTIONS FOR 2nd FLOOR TO FIRST FLOOR CONNECTIONS.(NOTE: THIS IS FOR 2 STORY PROJECTS ONLY)
6. IF "SW" IS INDICATED THE WALL IS CONSIDERED A SHEARWALL AND REQUIRES MIN. 7/16" OSB PLYWOOD W/ 8d NAILS AT 4" O.C. IN FIELD AND EDGE TO (1) SIDE OF WALL.
7. ALL 2x EXTERIOR WALLS W/ EXTERIOR SHEATHING ATTACHED PER NAILING SCHEDULE ACT AS SHEARWALLS. SEE PLAN AND WALLS SECTIONS FOR STUD SPACING AND GRADE.
8. IF THE BEARING WALL IS INDICATED WITH THE BW1, BW4, BW7, BW10 THESE WALLS ARE ONLY SUPPORTING THE FLOOR LOAD AND DO NOT HAVE UPLIFT. THE STUDS ARE TOE NAILED TO THE PLATE AND THE 2x PLATE CAN BE ATTACHED WITH HARD CASED NAILS (GUN NAILS) AND WILL NOT REQUIRE THE ANCHOR BOLT ATTACHMENT INDICATED IN THE BEARING WALL SCHEDULE.

BEAM SCHEDULE

MARK	BEAM SIZE	CONNECTIONS
BM1	(2) - 2 x 8 #2 SYP W/ 7/16" OSB FLITCH PLATE. NAIL BEAM TOGETHER USING (2) ROWS OF 12d NAILS @ 12" O.C. TYP EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA18 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM2	(2) - 2 x 10 #2 SYP W/ 7/16" OSB FLITCH PLATE. NAIL BEAM TOGETHER USING (2) ROWS OF 12d NAILS @ 12" O.C. TYP EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM3	(2) - 2 x 12 #2 SYP W/ 7/16" OSB FLITCH PLATE. NAIL BEAM TOGETHER USING (2) ROWS OF 12d NAILS @ 12" O.C. TYP EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM4	(2) - 1 3/4" x 11 1/4" LVL 2.0E Fb=2600 PSI. NAIL BEAM TOGETHER USING (2) ROWS 1/4" x 3 1/2" SDS WOOD SCREWS @ 16" O.C. TYP. EACH SIDE.	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM5	(2) - 1 3/4" x 11 7/8" LVL 2.0E Fb=2600 PSI. NAIL BEAM TOGETHER USING (2) ROWS 1/4" x 3 1/2" SDS WOOD SCREWS @ 16" O.C. TYP. EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.
BM6	(2) - 1 3/4" x 16" LVL 2.0E Fb=2600 PSI. NAIL BEAM TOGETHER USING (2) ROWS 1/4" x 3 1/2" SDS WOOD SCREWS @ 16" O.C. TYP. EACH SIDE	CONNECTION: PROVIDE (2) SIMPSON LSTA24 OR (2) SIMPSON HTS20 TO WOOD POST OR (2) SIMPSON HETA16 TO CMU COL. U.N.O. ON ROOF PLAN.

GENERAL BEAM NOTES

1. VERIFY WITH PLAN CORRECT LENGTH OF BEAMS REQUIRED (MIN. 4" BEARING EACH END).
2. SEE PLAN FOR TOP OR BOTTOM OF BEAM INDICATIONS.
3. BEAMS ARE NOT TO BE DRILLED OR NOTCHED IN ANY WAY WITHOUT WRITTEN APPROVAL FROM THE E.O.R.

HEADER SCHEDULE

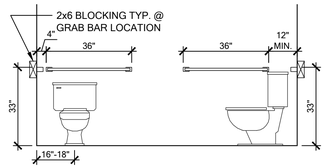
MARK	HEADER SIZE	REMARKS
H1	(2) - 2X6 #2 SYP W/ 1/2" INSULATION BOARD ON INTERIOR FACE	SEE GENERAL HEADER NOTE #5 THIS SHEET & HDR/S-2 DETAIL
H2	(2) - 2X8 #2 SYP W/ 1/2" INSULATION BOARD ON INTERIOR FACE	SEE GENERAL HEADER NOTE #5 THIS SHEET & HDR/S-2 DETAIL
H3	(2) - 2X10 #2 SYP W/ 1/2" INSULATION BOARD ON INTERIOR FACE	SEE GENERAL HEADER NOTE #5 THIS SHEET & HDR/S-2 DETAIL
H4	(2) - 2X12 #2 SYP W/ 1/2" INSULATION BOARD ON INTERIOR FACE	SEE GENERAL HEADER NOTE #5 THIS SHEET & HDR/S-2 DETAIL
H5	(2) - 1 3/4" X 11 1/4 LVL 2.0E Fb=2600 PSI	ATTACH TOGETHER W/ (2) ROWS 1/4" X 3 1/2" SDS WD SCREWS @ 16" O.C. TYP. EACH SIDE
H6	(2) - 1 3/4" X 9 1/4 LVL 2.0E Fb=2600 PSI	ATTACH TOGETHER W/ (3) ROWS 1/4" X 3 1/2" SDS WD SCREWS @ 16" O.C. TYP. EACH SIDE

HEADER SUPPORT NO. OF JACKS & STUDS REQ. AT OPENINGS

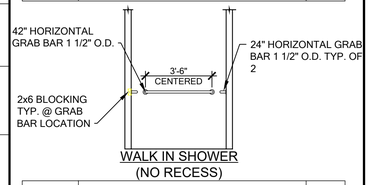
OPENING SIZE	2x4 WALL JACKS EA. END	2x4 WALL KINGS EA. END	2x6 OR 2x8 WALL JACKS EA. END	2x6 OR 2x8 WALL KINGS EA. END
1'-0" - 3'-11"	(1)	(2)	(1)	(2)
4'-0" - 9'-11"	(2)	(3)	(2)	(2)
10'-0" - 16'-0"	(3)	(4)	(3)	(4)

GENERAL HEADER NOTES

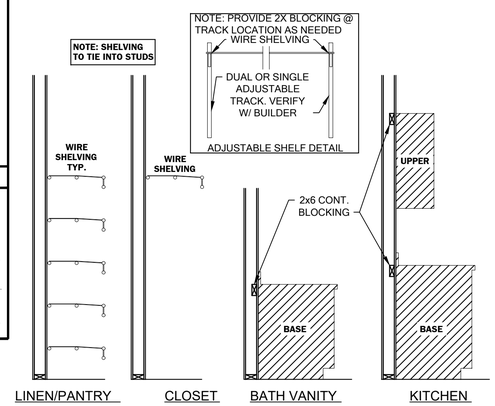
1. VERIFY W/ PLAN CORRECT LENGTH OF HEADER REQUIRED
2. IF HEADER IS ON THE 1st FLOOR SEE PLAN FOR BEARING WALL TYPE AND FOLLOW INSTRUCTIONS WITHIN BEARING WALL SCHEDULE FOR REQUIRED CORRECTIONS UNO ON PLAN
3. IF HEADER IS ON THE 2nd FLOOR SEE PLAN FOR INDICATED HEADER CONNECTION FOR REQUIRED CONNECTIONS.
4. ALL HEADER JACK AND KING STUDS SHALL BE FASTENED TO EACH PER DETAIL WF37.
5. FASTEN ALL MULT-PLY HEADERS TOGETHER W/ (2) ROWS 10d COMMON NAILS AT 12" o.c. ALONG EACH EDGE OR (3) ROWS IF 2x10 OR LARGER.
6. FASTEN ALL HEADERS TO KING STUDS WITH (3) 12d TOENAILS PER SIDE
7. IF HEADER IS NOT SPECIFIED CONTACT E.O.R.
8. REFER TO DETAIL HDR/S-2 & WF09/S-2 FOR HEADER CONNECTIONS



TYP.	GRAB BAR LOCATIONS DETAIL	N.T.S.

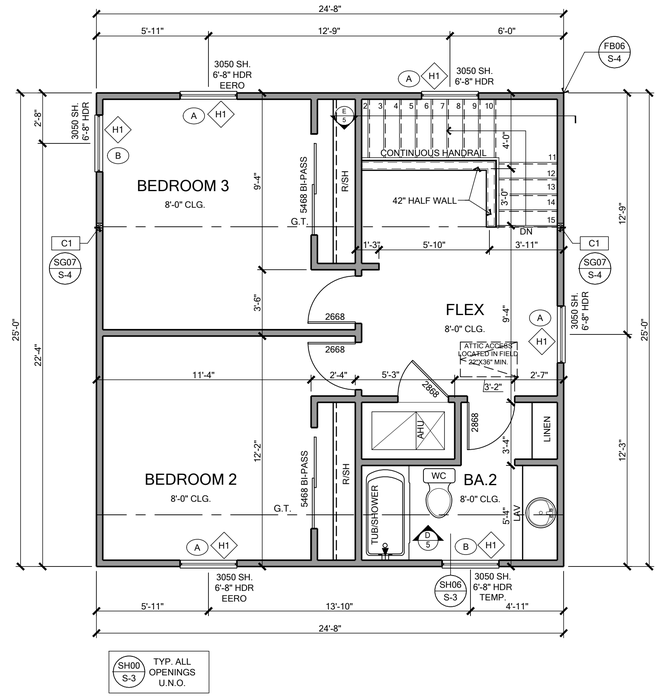


TYP.	HANDICAP SHWR./TUB BLOCKING	N.T.S.



(VERIFY HEIGHTS W/ CABINET MANUFACTURER)

TYP.	CABINET/SHELF DETAIL	N.T.S.



SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0" @ 22X34

AREA TABULATION		
FIRST FLOOR	1046	SQ.FT.
SECOND FLOOR	571	
TOTAL LIVING AREA	1617	
ENTRY	103	
TOTAL AREA UNDER ROOF	1720	SQ.FT.

NOTE:

INDICATES OPENINGS WIND PRESSURES. SEE WIND LOADING CRITERIA ON COVER SHEET FOR INFORMATION.

WALL LEGEND

FRAMED WALL

BEARING FRAME WALL

GENERAL NOTES

1. R302.6 (table 302.6) If water based ceiling texture material is used, Provide 1/2" gypsum board for 16" O.C. Framing, or 5/8" gypsum board for 24" O.C. Framing. Note 1/2" sag-resistant gypsum board may be used I.L.O. 5/8" gypsum board. 5/8" type "X" gypsum board must be installed on garage ceiling beneath habitable room(s).
2. R302.5.2 Duct Penetration. Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel, 1 inch minimum rigid nonmetallic class 0 or class 1 duct board, or other approved material and shall not have openings into the garage.
3. R302.5.1 Door from garage into house must be a minimum 1 3/8" solid wood door, solid or honeycomb core steel door, or 20 Minute fire rated door.
4. R302.7 Enclosed space under stairs that is accessed by a door or access panel shall have walls, under-stair surface and any soffits protected on the enclosed side with 1/2" gypsum board.
5. Outdoor swimming pools shall be provided with a barrier complying with R4501.17.1.1 through R4501.17.1.14.
6. Bathroom exhaust fans must vent to the exterior of the building, exhaust to attic space and soffits is not acceptable. Ventilation shall be permitted to exit through the soffit if solid soffit is installed 5'-0" on each side of the venting.
7. R302.6 The garage shall be separated from the residence and it's attic as required by Table R302.6. From the residence and attics by not less than 1/2-inch (12.7mm) gypsum board applied to the garage side. Garage beneath rooms shall be separated from all habitable rooms above by not less than 5/8 inch (15.9mm) type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also protected by not less than 1/2 inch (12.7mm) gypsum board or equivalent.
8. R312.2.1Window sills. In dwelling units, where the bottom of the clear opening of an operable window opening is located less than 24 inches (610 mm) above the finished floor and greater than 72 inches (1829 mm) above the finished grade or other surface below on the exterior of the building, the operable window shall comply with one of the following:
   1. Operable windows with openings that will not allow a 4-inch diameter (102 mm) sphere to pass through the opening where the opening is in its largest opened position.
   2. Operable windows that are provided with window fall prevention devices that comply with ASTM F2090.
   3. Operable windows that are provided with window opening control devices that comply with Section R312.2.2.
9. R308.4.2 All windows within 2'-0" of doors and in shower or tub areas will be safety tempered glass.
10. EC: R402.2.4 Vertical or horizontal access doors from conditioned spaces to unconditioned spaces such as attics and crawl spaces shall be weather stripped and insulated to a level equivalent to the insulation on the surrounding surfaces.
11. M1502.4.5 Duct length
    The maximum allowable exhaust duct length shall be determined by one of the methods specified in sections M1502.4.5.1 through M1502.4.5.3
    M1502.3 Duct termination.
    Exhaust ducts shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. If the manufacturer's instructions do not specify a termination location, the exhaust duct shall terminate not less than 3 feet (914 mm) in any direction from openings into buildings, including openings in ventilated soffits. Exhaust duct terminations shall be equipped with a backdraft damper. Screens shall not be installed at the duct termination.
12. Porch Ceilings: (See plan for the following options)
    Option 1. Gypsum:
    1/2" exterior gypsum soffit board shall be attached to all framing members with 2x blocking provided at perimeter and panel edges. The gypsum board shall be attached w/ Type "W" 1 1/4" drywall screws at 8" O.C. in filed and edges.
    Option 2. Plaster Base:
    7/16" OSB on underside of roof trusses shall be attached to all framing members with 2x blocking provided at perimeter and panel edges. The OSB shall be attached w/ 8d nails at 6" O.C. field and 4" O.C. at edges or 7d screw shank 3" O.C. field and 4" edges.
13. Energy Code Compliance Path is Performance Based Path. Code cycle is FBC 2023 8th Edition.

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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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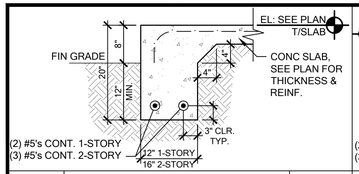
habitatorlandoosceola.org

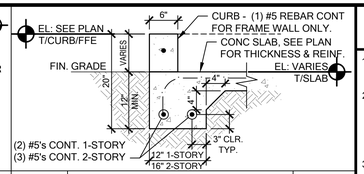
LOT: BLK: UNIT:
Community:
Plan Name: 1400 Mercy Drive
Project Address: 1234 South Road City Florida 123456
Client No: Client No.
Elev: Garage: Version: 0.0

Project No: 25-09339
Sheet No: 3

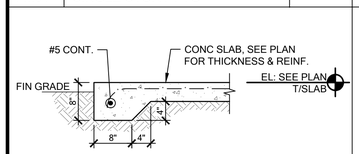
Saved By: ERNESTO.SOTO Date: 7/10/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing files\25-09339 Mercy Drive Model.dwg



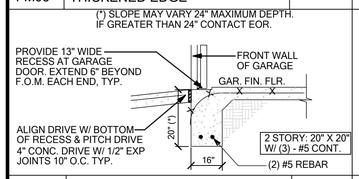
FM01 | SINGLE STORY FTG | 3/4" = 1'-0"



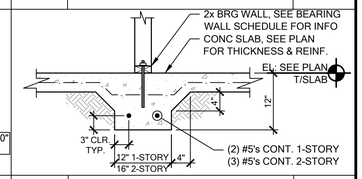
FM02 | SECTION @ GARAGE | 3/4" = 1'-0"



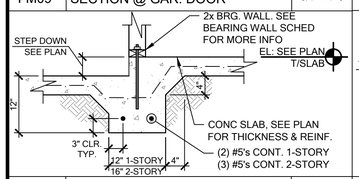
FM03 | THICKENED EDGE | 3/4" = 1'-0"



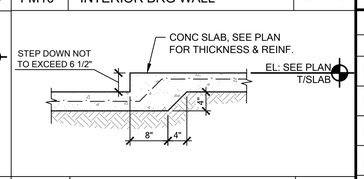
FM09 | SECTION @ GAR. DOOR | 3/4" = 1'-0"



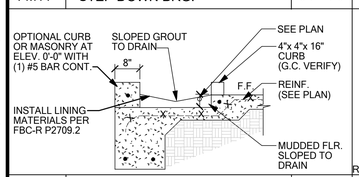
FM10 | INTERIOR BRG WALL | 3/4" = 1'-0"



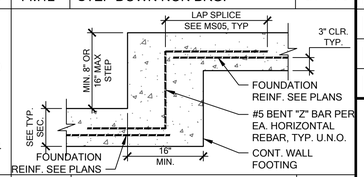
FM11 | STEP DOWN BRG. | 3/4" = 1'-0"



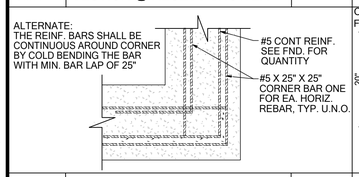
FM12 | STEP DOWN NON BRG. | 3/4" = 1'-0"



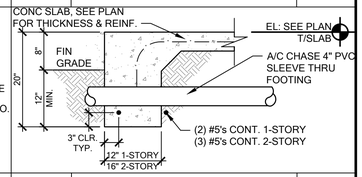
FM14 | SECTION @ RECESS SHOWER | 3/4" = 1'-0"



FM18 | TYP. STEP FTG. DETAIL | 3/4" = 1'-0"



FM19 | TYP. CORNER BAR DETAIL | 3/4" = 1'-0"

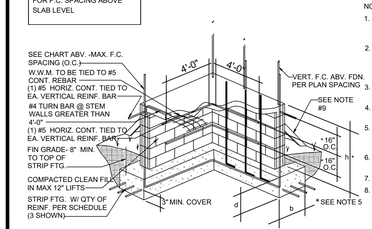


FM23 | TYP. FND PENETRATION | 3/4" = 1'-0"

STEMWALL SCHEDULE

STEMWALL HEIGHT (h)	FOOTING DIMENSION d 1 STORY	d 2 STORY	b 1 STORY	b 2 STORY	NUMBER/SIZE OF BARS	LAT.	MAXIMUM F.C. SPACING (O.C.) IN STEM WALL
0'-0"-2'-0"	8"	10"	16"	20"	W/ (2) #5 BARS	<674#	6'-8"
>2'-0"-3'-4"	10"	10"	20"	24"	W/ (3) #5 BARS	674#	5'-4"
>3'-4" - 4'-0"	12"	12"	32"	32"	W/ (4) #5 BARS	845#	4'-0"
>4'-0" - 5'-4"	16"	16"	48"	48"	W/ (5) #5 BARS CONT. & #5 @ 18" O.C. TRANSV.	1162#	2'-8"

SEE FOUNDATION PLAN FOR F.C. SPACING ABOVE SLAB LEVEL



NOTES:

1. VERTICAL REINF. IN SOLID GROUTED CELLS AT ALL CORNERS, JAMBS, WALL INTERSECTIONS, BELOW GIRDER TRUSS LOCATIONS, AND AT THE MAXIMUM SPACING STATED IN SCHEDULE
2. W.W.M. IS REQUIRED TO MAKE ADEQUATE CONNECTION BETWEEN SLAB AND WALL WHEN STEM WALL EXCEEDS 4'-0" FIBERMESH CAN NOT BE USED AND #4 TURN BARS ARE REQUIRED @ EACH FILLED CELL LOCATION. EACH BAR TO TIE INTO VERTICAL BAR AND EXTEND OUT A MIN. 4'-0" INTO SLAB/ STEM
3. IF STEM IS REQ'D TO BE HIGHER CONTACT ENGINEER OF RECORD PRIOR TO CONSTRUCTION FOR MORE INFORMATION
4. G.C. TO PROVIDE ADEQUATE BRACING OF STEM WALL WHEN UNEVEN BACK FILLING IS TAKING PLACE
5. #5 HORIZONTAL CORNER BARS WITH 4'-0" LEGS IN KNOCKOUT BLOCK @ 16" O.C. VERTICAL. GROUTED SOLID WHEN STEM WALL IS GREATER THAN 4'-0" TALL (TYPICAL ALL CORNERS)
6. IF STEMWALL IS WITH IN 5'-0" OF POOL OR WATER FEATURE FOUNDATIONS TO BE A MINIMUM 12" BELOW BOTTOM OF POOL OR WATER FEATURE.
7. ALL STEM WALLS GREATER THAN (4) COURSES SHALL BE FULLY GROUTED.
8. R403.1.4 MINIMUM DEPTH. EXTERIOR FOOTINGS SHALL BE PLACED NOT LESS THAN 12 INCHES (305 MM) BELOW THE FINISHED GRADE OF GROUND SURFACE. WHERE APPLICABLE, THE DEPTH OF FOOTINGS SHALL ALSO CONFORM TO SECTIONS R403.1.4.1.
9. EXTERIOR SHORING BY CONTRACTOR AS REQ'D WHEN STEM IS OVER 4'-0" TALL

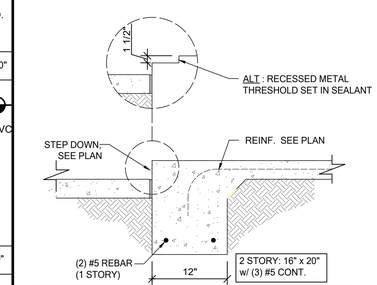
FMASW | STEM WALL SCHEDULE | NTS

GENERAL FOUNDATION NOTES UNLESS NOTED OTHERWISE

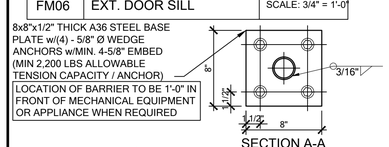
1. PROVIDE MIN. 6 MIL. APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MIN. 6" AND SEALED.
2. 4" 2500 PSI CONC. SLAB W/ 6X6 10/10 W W F, OR MININUM .75 LBS 2 OF FIBER PER CUBIC YARD FIBERMESH/FIBERMIX ADDED TO THE CONCRETE. IN ACCORDANCE W/ MANUF'S INSTRUCTIONS AND NER-284 FOR FIBERMESH OR NER-414 FOR FIBERMIX, OVER 6 MIL VISQUEEN VAPOR BARRIER & TREATED FOR TERMITES.
3. CONSULT W/ MANUF. SPECIFICATIONS PRIOR TO POURING OR 3 RECESSING DOOR SILLS OR SLIDING GLASS DOOR SILLS.
4. EXTERIOR SLABS SHALL SLOPE MIN. 2% OR 1/4" PER FOOT AWAY FROM HOUSE U.N.O. ON PLAN.
5. CONTROL JOINTS (IF SHOWN) ARE NOT REQUIRED BY CODE BUT ARE SUGGESTED (ESPECIALLY WHEN USING FIBER REINF. CONCRETE OR IN EXTERIOR CONDITIONS). CONTROL JOINTS TO BE 1/8" SAW CUT A DEPTH OF |/4 OF THE THICKNESS OF THE SLAB. FILL CUT W/ APPROVED JOINT MATERIAL OR USE ALTERNATE APPROVED METHOD.
6. NO WOOD STAKES PERMITTED IN FOUNDATION.
7. PENDING SITE CONDITIONS, FOUNDATION MAY HAVE TO BE STEPPED DOWN. G.C. TO DETERMINE STEP LOCATIONS IF REQUIRED.
8. R403.1.4 MINIMUM DEPTH. EXTERIOR FOOTINGS SHALL BE PLACED NOT LESS THAN 12 INCHES BELOW THE FINISHED GRADE OF GROUND SURFACE. WHERE APPLICABLE, THE DEPTH OF FOOTINGS SHALL ALSO CONFORM TO SECTION R403.1.4.1..
9. MASON TO COORDINATE WITH BUILDER ANY ELECTRICAL REQUIREMENT THROUGH SLAB.
10. PROVIDE 4" STEPDOWN TO SIDEWALK FROM ENTRY.
11. ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 2000 PSF SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN. SOIL TO BE COMPACTED TO AT LEAST 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTM - 1557 (MODIFIED PROCTOR) THE FOUNDATION SIZES INDICATED ON THE FOUNDATION PLAN HAS BEEN DESIGNED FOR A MINIMUM SOIL BEARING CAPACITY OF 2000 PSF.

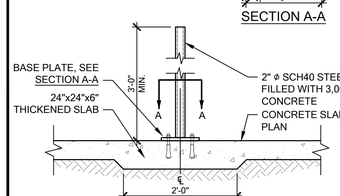
FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING	GRAVITY CAP. [lbs]
F2.0	2'-0" X 2'-0"	1'-0"	3 #5 E.W. BOT.	7200
F2.5	2'-6" X 2'-6"	1'-0"	3 #5 E.W. BOT.	11000
F3.0	3'-0" X 3'-0"	1'-0"	4 #5 E.W. BOT.	15600
F3.5	3'-6" X 3'-6"	1'-0"	4 #5 E.W. BOT.	21500
F4.0	4'-0" X 4'-0"	1'-0"	5 #5 E.W. BOT.	28000
F4.5	4'-6" X 4'-6"	1'-4"	5 #5 E.W. BOT.	34500
F5.0	5'-0" X 5'-0"	1'-4"	6 #5 E.W. BOT.	42500
F6.0	6'-0" X 6'-0"	1'-4"	7 #5 E.W. BOT.	61500



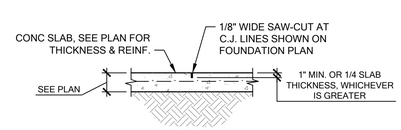
FM06 | EXT. DOOR SILL | SCALE: 3/4" = 1'-0"



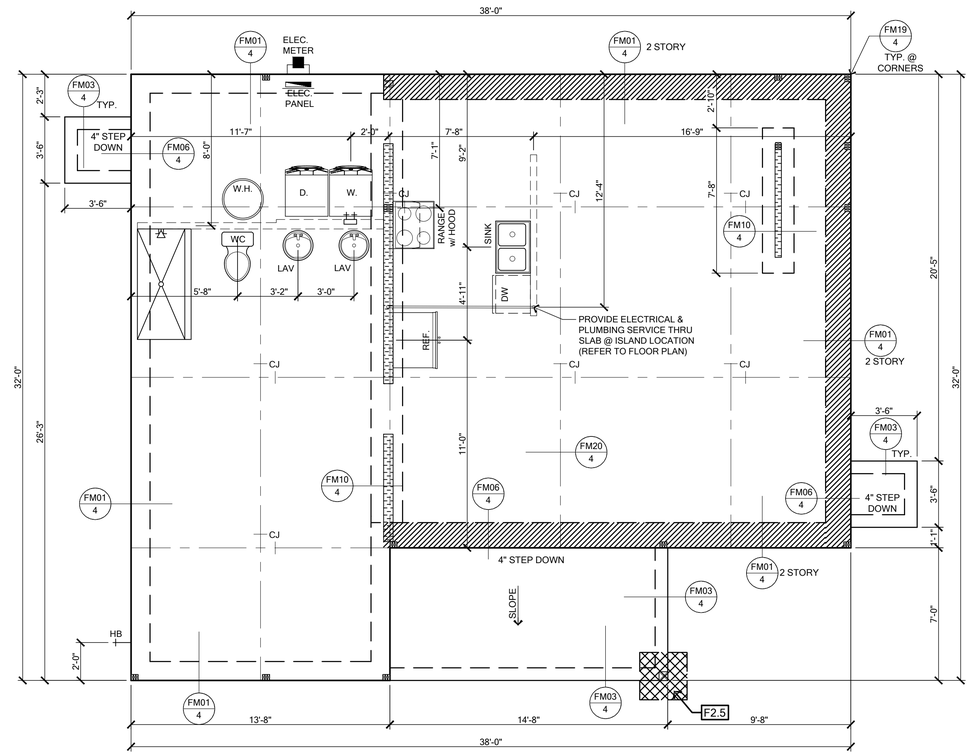


FOR USE AT ELECTRICAL EQUIPMENT OR APPLIANCE

1 | BOLLARD DETAIL | SCALE: 3/4" = 1'-0"



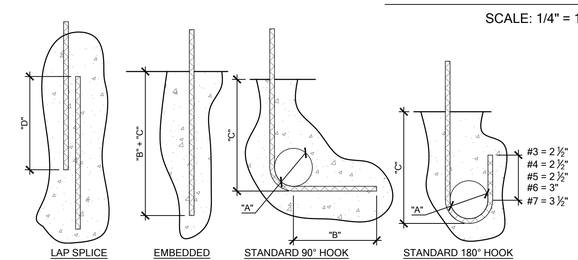
FM20 | CONTROL JOINT | SCALE: N.T.S.



HATCH DENOTES 2 STORY FOOTING

FOUNDATION PLAN

SCALE: 1/4" = 1'-0" @ 22X34



REQUIRED SPLICE, EMBEDMENT, AND HOOKED REINFORCED STEEL (INCHES)

GRADE 40 BAR SIZE	BEND	LENGTH "B"	LENGTH "C"	LAP SPLICE	GRADE 60 BAR SIZE	BEND	LENGTH "B"	LENGTH "C"	LAP SPLICE
Ø	"A"	"B"	"C"	"D"	Ø	"A"	"B"	"C"	"D"
#3	1 7/8"	4 1/4"	7"	15"	#3	2 1/4"	4 1/4"	9 1/4"	18"
#4	2 1/2"	5 5/8"	9 1/2"	20"	#4	3"	5 5/8"	12 1/2"	24"
#5	3 1/8"	7"	11 3/4"	25"	#5	3 3/4"	7"	15 1/2"	30"
#6	3 3/4"	8 1/2"	14"	30"	#6	4 1/2"	8 1/2"	18 1/2"	36"
#7	4 3/8"	9 13/16"	16 1/2"	35"	#7	5 1/4"	9 13/16"	21 3/4"	42"

MS05 | REBAR SPLICE DETAIL | N.T.S.

TSG
CA No: 9161 AA26003115
Making Dreams Come True
TOTAL SOLUTIONS GROUP
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Maitland, Florida, 32751
(407) 880 2333
CARL A. BROWN, PE - FL # 56126
SCOTT LEWKOWSKI, PE - FL #78750
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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code – Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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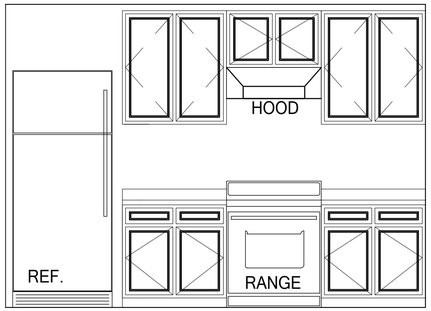
Habitat for Humanity® Greater Orlando & Osceola County
4166 Silver Star Rd.
Orlando, Fl. 32808
office: (407) 648-4567
habitatorlandoosceola.org

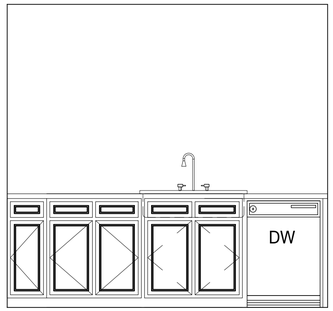
LOT: | BLK: | UNIT:
Community:
Plan Name: 1400 Mercy Drive
Project Address: 1234 South Road City Florida 123456
Client No.: Client No.
Elev: | Garage: | Version: 0.0

Project No: 25-09339
Sheet No: 4

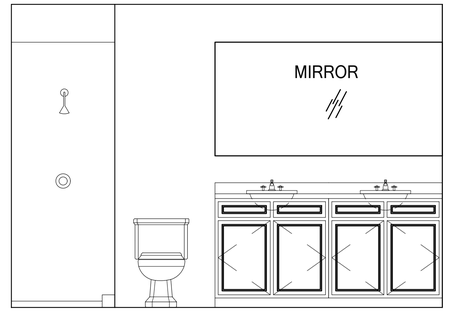
Saved By: ERNEST0.SOTO Date: 7/10/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing Files\25-09339 Mercy Drive Model.dwg



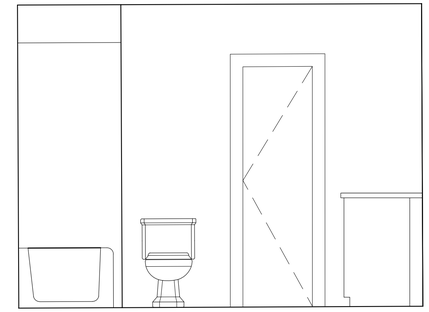
A
KITCHEN



B
KITCHEN



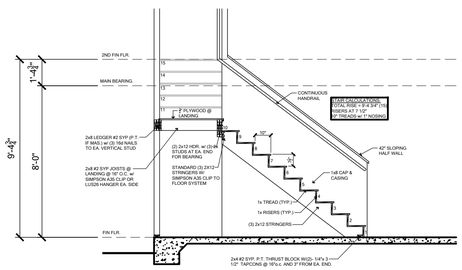
C
P. BATH



D
BATH 2

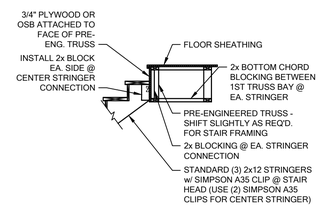
INTERIOR ELEVATIONS

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



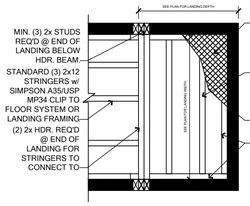
STAIR SECTION

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



TYP. HEAD OF STAIR FRAMING SECTION

NOTE: SEE ARCH. DWG'S. FOR ALL RISER AND TREAD DIMENSIONS, HANDRAIL & GUARDRAIL INFORMATION, AND FINISH REQUIREMENTS. ALL HANDRAILS & GUARDRAILS SHALL BE SUPPLIED BY THE CONTRACTOR AND SHALL BE DESIGNED TO RESIST SINGLE LOADING 200-POUND CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP RAIL AS SPECIFIED IN TABLE R301.5 OF THE 2023 FLORIDA RESIDENTIAL BUILDING CODE.



GENERAL LANDING FRAMING INFO.

SCALE: NTS.

A RETURN TO WALL DETAIL

SCALE: NTS.

LOAD CALCULATIONS

COOLING GREATER THAN HEATING

GENERAL LIGHTING & RECEPTACLES

3 WATTS PER SQUARE FOOT OF LIVING

S.F. LIVING	1617	X3
=	4851	

APPLIANCE CIRCUITS

1	RANGE	8500
1	OVEN	2500
0	PEP TANK	0
1	MICRO / HOOD	1000
1	WATER HEATER	4500
0	WHIRL POOL	0
1	WASHER	1500
1	DRYER	5000
1	DISHWASHER	1500
0	WELL PUMP	0
0	IRRIGATION PUMP	0
1	DISPOSAL	600
	SMALL APPPLIANCE CIRCUITS	4500
5	BATH FANS (100 WATTS / EACH)	500

GENERAL LIGHT'G & RECEPT. + APP. CIR.		34951
SUBTRACT 100% OF FIRST 10,000		-10000
	A	24951

HVAC CIRCUITS

1 A/C (AIR HANDLER & COMP.)		10000
1 A/C (AUXILIARY HEAT STRIP)		10000
	B	20000

CIRCUIT CALCULATIONS

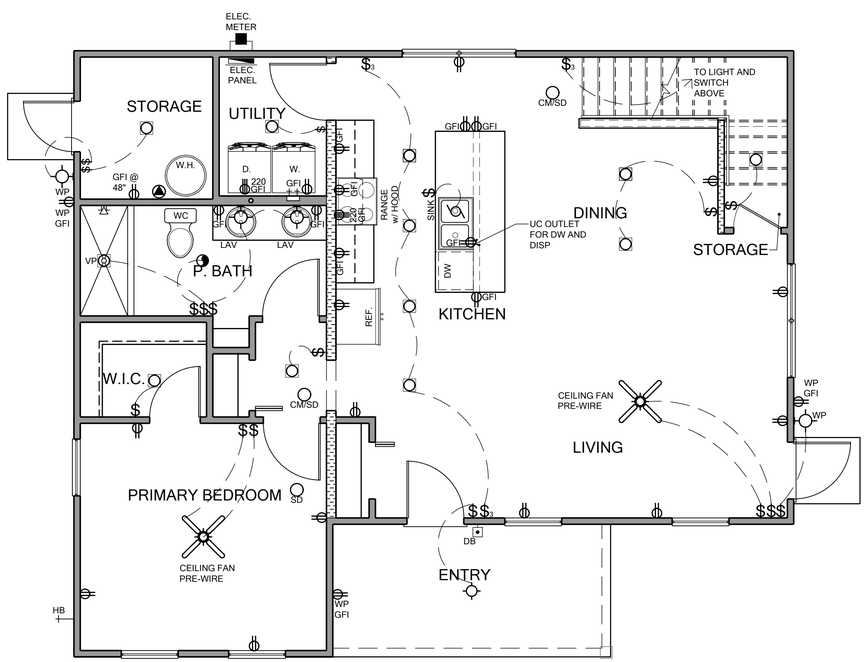
FIRST 10,000 AMPS @ 100%		10000
+ 40% OF "A" = (.40 X A)	=	9980.4
+ 100% OF "B 20000	=	20000
TOTAL WATTAGE	=	**39980.4**

WATTS DIVIDED BY 240 = AMPS

CALCULATED SERVICE AMPS = **166.585**

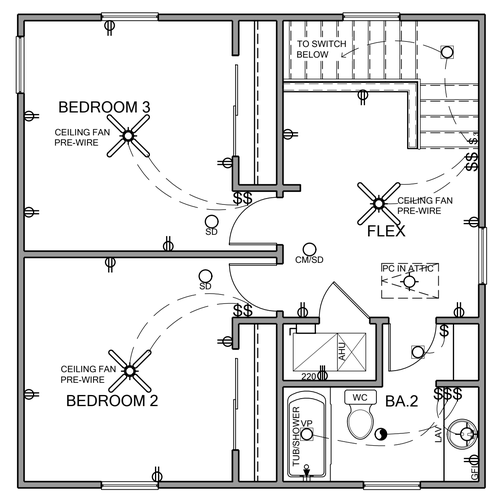
MIN. PANEL BOX SIZE TO BE 200 AMP

Licensed Electrician to verify all loads and modify as needed



FIRST FLOOR ELECTRICAL PLAN

SCALE: 1/4" = 1'-0" @ 22X34



SECOND FLOOR ELECTRICAL PLAN

SCALE: 1/4" = 1'-0" @ 22X34

ELECTRICAL NOTES:

UNLESS OTHERWISE NOTED.

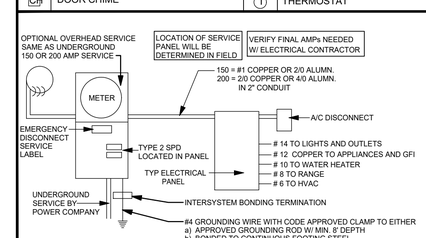
1. ELECTRICAL OUTLET HEIGHTS AS MEASURED FROM FINISHED FLOOR TO CENTER LINE OF THE BOX TO BE: 16" AFF (GENERAL). IN A FLOOD ZONE, ALL ELECTRICAL EQUIPMENT TO BE AT OR ABOVE DFE. KITCHEN 44" AFF BATHROOM 39" AFF LAUNDRY ROOM 36" AFF EXTERIOR WATERPROOF 12" AFF GARAGE – GENERAL PURPOSE 42" AFF RANGE 2" AFF
2. ALL TRIM PLATES AND DEVICES TO BE GANGED, WHERE POSSIBLE.
3. ELECTRICAL SWITCHES TO BE AT 42" CENTERLINE ABOVE FINISHED FLOOR.
4. ELECTRICAL PLAN IS INTENDED FOR BID PURPOSES ONLY. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), LATEST EDITION, BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION & SIZING OF ALL ELECTRICAL, WIRING & ACCESSORIES.
5. SMOKE ALARMS SHALL COMPLY WITH NFPA 72 AND SECTION R314 AND SHALL BE LISTED IN ACCORDANCE WITH UL 217. COMBINATION SMOKE AND CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND UL 2034.
6. PROVIDE AFCI'S (ARC-FAULT CIRCUIT INTERRUPTERS) COMBINATION TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUITS IN ALL DWELLING UNITS PER NFPA 70 (CURRENT EDITION) AND THE NEC AND AS DEFINED IN UL 1699.
7. PROVIDE TAMPER RESISTANT RECEPTACLES AS REQUIRED BY THE NFPA 70 (CURRENT EDITION).
8. CARBON MONOXIDE PROTECTION: CARBON MONOXIDE ALARMS OR DETECTORS SHALL BE INSTALLED IN ALL DWELLING UNITS IN ACCORDANCE WITH FBC R315 AND NFPA 70. SUCH DEVICES SHALL BE LISTED BY THE APPROPRIATE STANDARD, EITHER ANSI/UL 2034, STANDARD FOR SINGLE AND MULTIPLE STATION CO ALARMS OR UL 2075, GAS AND VAPOR DETECTOR SENSOR, ACCORDING TO THE INSTALLATION.
9. R315.1.2 COMBINATION ALARMS: COMBINATION SMOKE/CARBON MONOXIDE ALARMS SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
10. KEEP ALL SMOKE DETECTORS MINIMUM OF 36" FROM BATHROOM DOORS.
11. IN NEW CONSTRUCTION, SMOKE DETECTORS SHALL BE HARDWIRED INTO AN A/C ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP.
12. BATHROOM EXHAUST FANS MUST VENT TO THE EXTERIOR OF THE BUILDING, VENTILATION TO ATTIC SPACE AND SOFFITS IS NOT ACCEPTABLE.
13. CHAPTER 45 PRIVATE SWIMMING POOLS – OUTDOOR SWIMMING POOLS SHALL BE PROVIDED WITH A BARRIER COMPLYING WITH R4501.17.1.1 THROUGH R4501.17.1.14.
14. ADD GFCI PROTECTION TO RECEPTACLES IN LAUNDRY ROOMS AND UTILITY ROOMS OF DWELLINGS WHERE INSTALLED WITHIN 6' OF THE OUTSIDE EDGE OF A SINK. THIS WOULD INCLUDE THE RECEPTACLE INSTALLED FOR A WASHING MACHINE. RECEPTACLE OUTLETS SHALL NOT BE REQUIRED ON A WALL DIRECTLY BEHIND A RANGE OR SINK TO FULFILL THE REQUIREMENT OF AN OUTLET EVERY 24". THE WIDTH OF THE SINK OR RANGE IS NOT TO BE INCLUDED IN THE SPACING OF THE OUTLETS UNLESS THE DISTANCE FROM THE SINK OR RANGE IS GREATER THAN 12" FOR STRAIGHT COUNTER TOPS AND 18" FOR SINKS AND RANGES INSTALLED IN CORNER COUNTERS.
15. WHERE MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT IN ACCORDANCE WITH SECTION R314.3, THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL DWELLING UNIT. PHYSICAL INTERCONNECTION OF SMOKE ALARMS SHALL NOT BE REQUIRED WHERE LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF ONE ALARM.
16. FOR ONE- AND TWO-FAMILY DWELLING UNITS, ALL SERVICE CONDUCTORS SHALL TERMINATE IN DISCONNECTING MEANS HAVING A SHORT-CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT, INSTALLED IN A READILY ACCESSIBLE OUTDOOR LOCATION. EACH DISCONNECT SHALL BE ONE OF THE FOLLOWING: (1) SERVICE DISCONNECTS MARKED AS FOLLOWS: EMERGENCY DISCONNECT, SERVICE DISCONNECT (2) METER DISCONNECTS INSTALLED PER 230.82(3) AND MARKED AS FOLLOWS: EMERGENCY DISCONNECT, METER DISCONNECT, NOT SERVICE EQUIPMENT (3) OTHER LISTED DISCONNECT SWITCHES OR CIRCUIT BREAKERS ON THE SUPPLY SIDE OF EACH SERVICE DISCONNECT THAT ARE SUITABLE FOR USE AS SERVICE EQUIPMENT AND MARKED AS FOLLOWS: EMERGENCY DISCONNECT, NOT SERVICE EQUIPMENT MARKINGS SHALL COMPLY WITH 110.21(B).
17. ALL PERMANENTLY INSTALLED LUMINARIES, EXCLUDING THOSE IN KITCHEN APPLIANCES, SHALL HAVE AN EFFICACY OF AT LEAST 45 LUMENS-PER-WATT OR SHALL UTILIZE LAMPS WITH AN EFFICACY OF NOT LESS THAN 65 LUMENS-PER-WATT.

ELECTRICAL LEGEND

POWER SYMBOLS			
	110-115 RECEPTACLE	VP	VAPOR PROOF
	GROUND FAULT INTERRUPT RECEPTACLE	GFI	GROUND FAULT INTERRUPT
	SWITCHED RECEPTACLE	AFI	ARC FAULT INTERRUPT
	QUAD RECEPTACLE	G.D.O.	GARAGE DOOR OPENER
	SOFFIT RECEPTACLE	PS	PULL STRING
	FLOOR RECEPTACLE		MOTOR
	220 RECEPTACLE		BATH FAN
	SPECIAL PURPOSE RECEPTACLE		BATH FAN AND LIGHT COMBINATION
WP	WATER PROOF	$	SINGLE POLE SWITCH
SD	SMOKE DETECTOR	$3	THREE WAY SWITCH
CM	CARBON MONOXIDE DETECTOR	$4	FOUR WAY SWITCH
SD/CM	COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR	$D	DIMMER SWITCH
	CEILING FAN PREWIRE		DISCONNECT SWITCH
	INSTALLATION PER CONTRACT. LED LIGHT FLUSH MOUNT (VERIFY W/ BUILDER)	J	JUNCTION BOX
	CEILING FAN WITH LIGHT KIT		ELECTRIC PANEL
	INSTALLATION PER CONTRACT		METER BASE

LIGHTING SYMBOLS			
	CEILING MOUNTED LIGHT		
	WALL MOUNTED LIGHT		FLOUR. SINGLE BULB
	WALL WASH FIXTURE		FLOUR. DOUBLE BULB
	RECESSED LIGHT		FLOUR. WRAP
	BATH FAN WITH LIGHT		EMERGENCY LIGHT
	DOUBLE FLOOD LIGHT		

LOW VOLTAGE SYMBOLS			
	SPEAKER		PUSH BUTTON
TV	TV OUTLET		DATA OUTLET
	TELEPHONE	IC	INTERCOM SYSTEM
CH	DOOR CHIME	T	THERMOSTAT



ELECTRICAL RISER

N.T.S.

NOTE:
ELECTRICAL MATERIAL AND INSTALLATIONS SHALL COMPLY WITH APPLICABLE PROVISIONS AS STATED ON STRUCTURAL NOTES SHEET LOCAL CODES AND THE LOCAL POWER CO.

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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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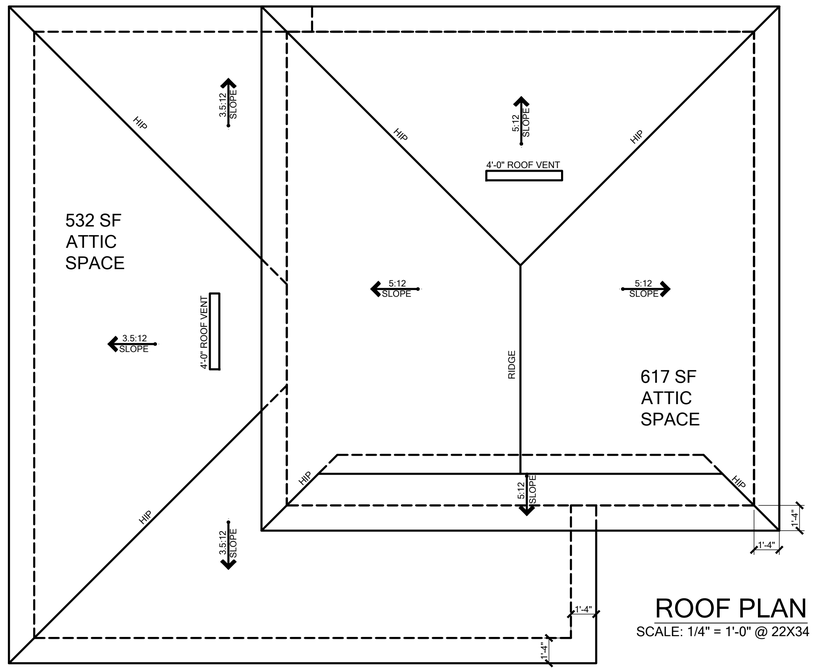
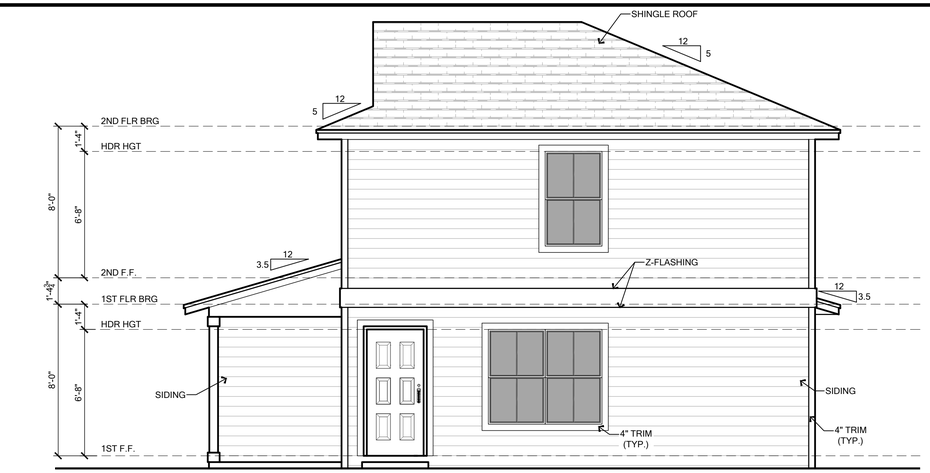
LOT: BLK: UNIT:
Community: Elev: Garage: Version: 0.0
Plan Name: 1400 Mercy Drive
Project Address: 1234 South Road City Florida 123456
Client No.: Client No.

Project No: 25-09339
Sheet No: 5

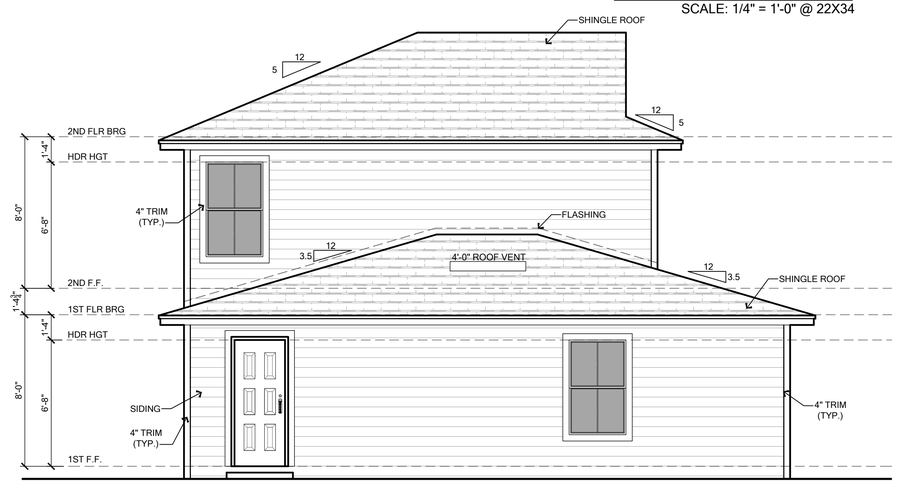
Saved By: ERIKESTO.SOTO Date: 7/10/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing Files\25-09339 Mercy Drive Model.dwg



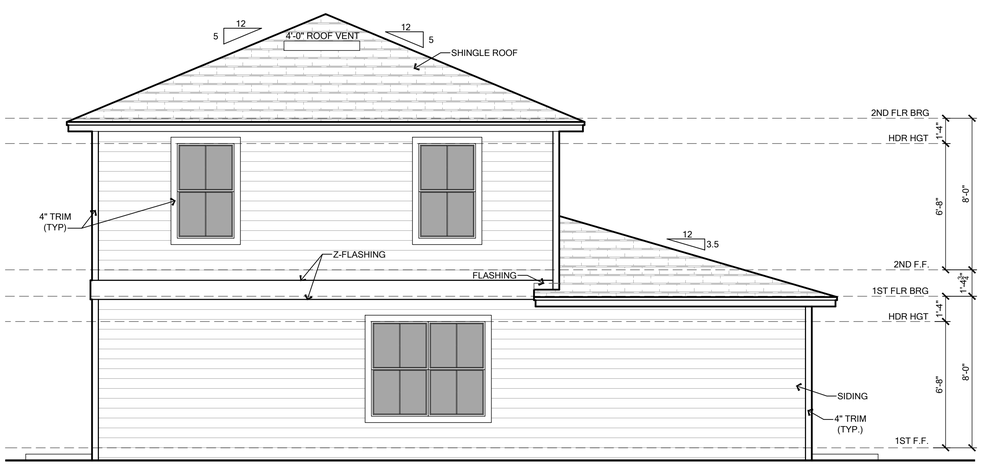
ROOF PLAN
SCALE: 1/4" = 1'-0" @ 22X34



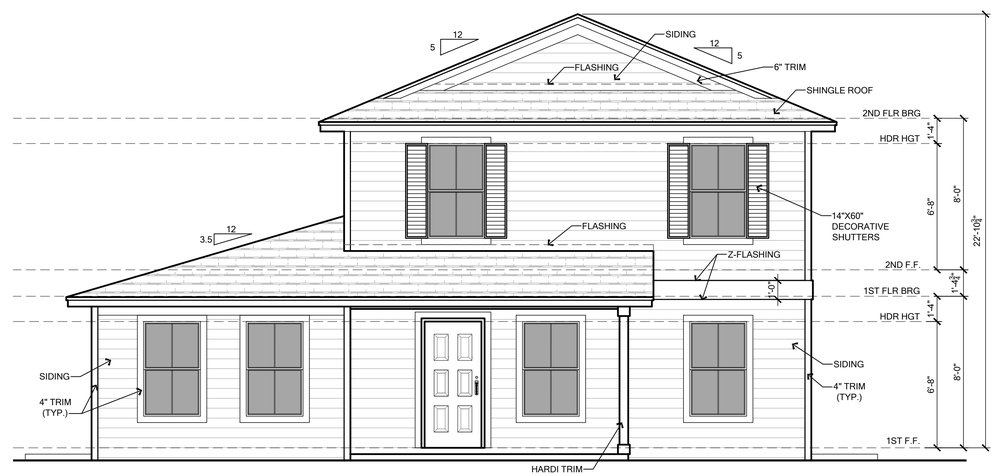
RIGHT ELEVATION
SCALE: 1/4" = 1'-0" @ 22X34



LEFT ELEVATION
SCALE: 1/4" = 1'-0" @ 22X34



REAR ELEVATION
SCALE: 1/4" = 1'-0" @ 22X34



FRONT ELEVATION
SCALE: 1/4" = 1'-0" @ 22X34

VENTILATION CALCULATION

Calculations shown below are for both, off ridge and ridge vent systems. Only ONE system is required. See builder's specs for product used.
Formula = SF / 300 / 2 * 144 = net sq. inches of venting needed.
(Based on the 1/300 exception for the minimum vent area).

S.F. of Area to be vented (SF)	532	
Total needed for exhaust for upper 1/3 Upper = 45% approx.	115	net sq inches
Total needed for intake (soffit area, lower) Lower = 55% approx.	140	net sq inches
Total needed combined to be no less than 40% and no more than 50%)	**255**	upper 1/3= **45%**
Soffit product provides	6.57	net sq in / sf
Overhang distance	1.00	ft
Net sq in per linear feet of soffit	6.57	sq in / lf
Lineal Feet of Soffit needed to meet required	**22**	
Lineal Feet of Soffit provided by plan	**146**	
Option one (Ridge vents)		
Ridge vent provides	18.00	net sq in / lf
L.F. of Ridge Vent needed	**7**	
Option two (Off ridge vents)		
Off ridge vent provides	138.00	net sq in / sf
Number of Off Ridge Vents for upper 1/3	**1**	

Calculations shown below are for both, off ridge and ridge vent systems. Only ONE system is required. See builder's specs for product used.
Formula = SF / 300 / 2 * 144 = net sq. inches of venting needed.
(Based on the 1/300 exception for the minimum vent area).

S.F. of Area to be vented (SF)	617	
Total needed for exhaust for upper 1/3 Upper = 45% approx.	133	net sq inches
Total needed for intake (soffit area, lower) Lower = 55% approx.	163	net sq inches
Total needed combined to be no less than 40% and no more than 50%)	**296**	upper 1/3= **45%**
Soffit product provides	6.57	net sq in / sf
Overhang distance	1.00	ft
Net sq in per linear feet of soffit	6.57	sq in / lf
Lineal Feet of Soffit needed to meet required	**25**	
Lineal Feet of Soffit provided by plan	**146**	
Option one (Ridge vents)		
Ridge vent provides	18.00	net sq in / lf
L.F. of Ridge Vent needed	**8**	
Option two (Off ridge vents)		
Off ridge vent provides	138.00	net sq in / sf
Number of Off Ridge Vents for upper 1/3	**1**	

ROOF CRITERIA
- **-12" OVERHANG @ EAVES U.N.O.**
- **-12" OVERHANG @ GABLES U.N.O.**
- **-PLUMB FASCIA**
- **-ROOF PITCH PER ELEVATION**
- **-SHINGLE LOADING**

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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

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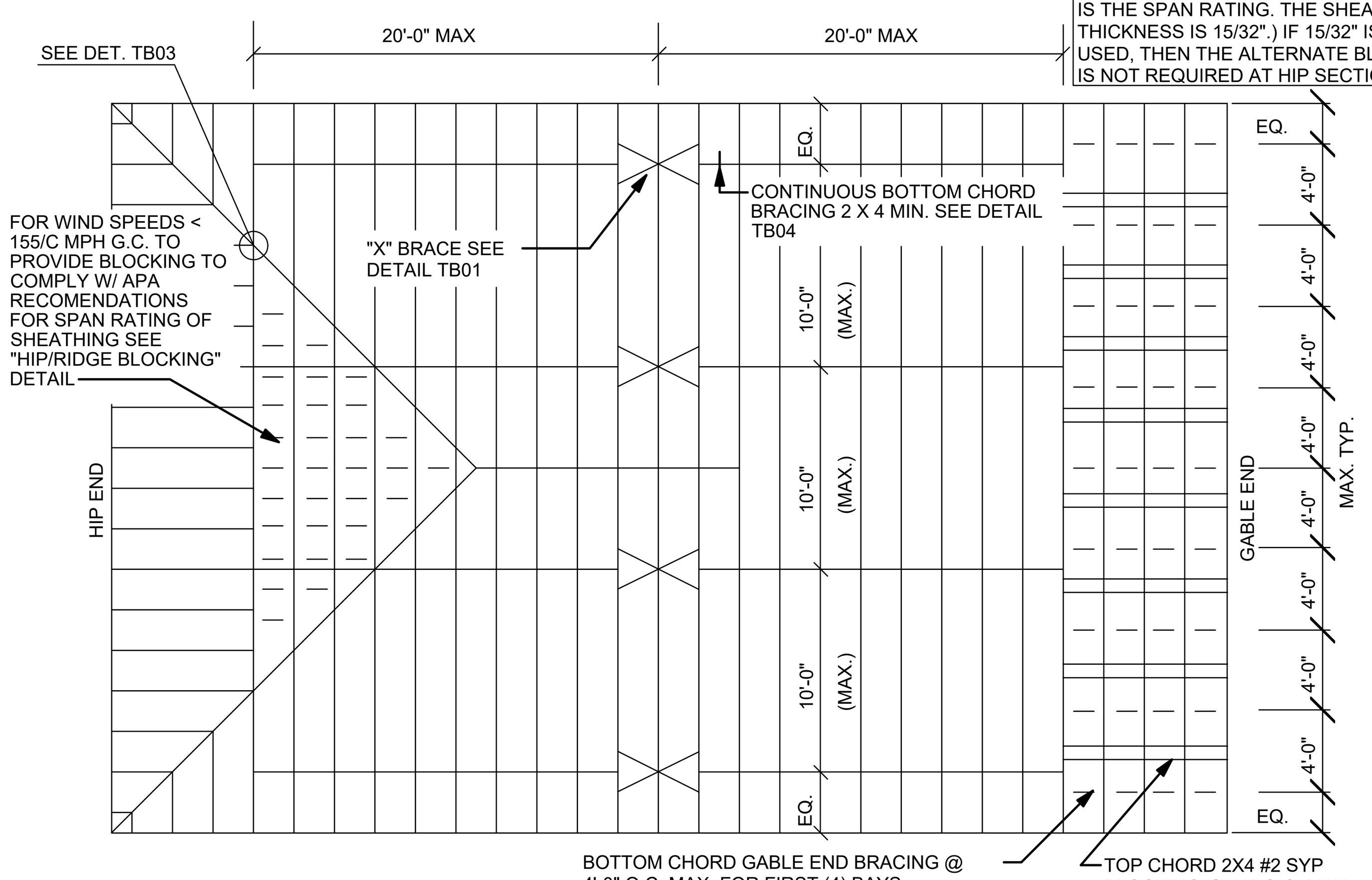
TB05 REQUIRED MINIMUM PERMANENT TRUSS BRACING PLAN (NTS)



FOR WIND SPEEDS < 155/C MPH

** ALTERNATE SPAN RATED 32/16 SHEATHING MAY BE USED (32/16 IS THE SPAN RATING. THE SHEATHING THICKNESS IS 15/32".) IF 15/32" IS USED, THEN THE ALTERNATE BLOCKING IS NOT REQUIRED AT HIP SECTIONS

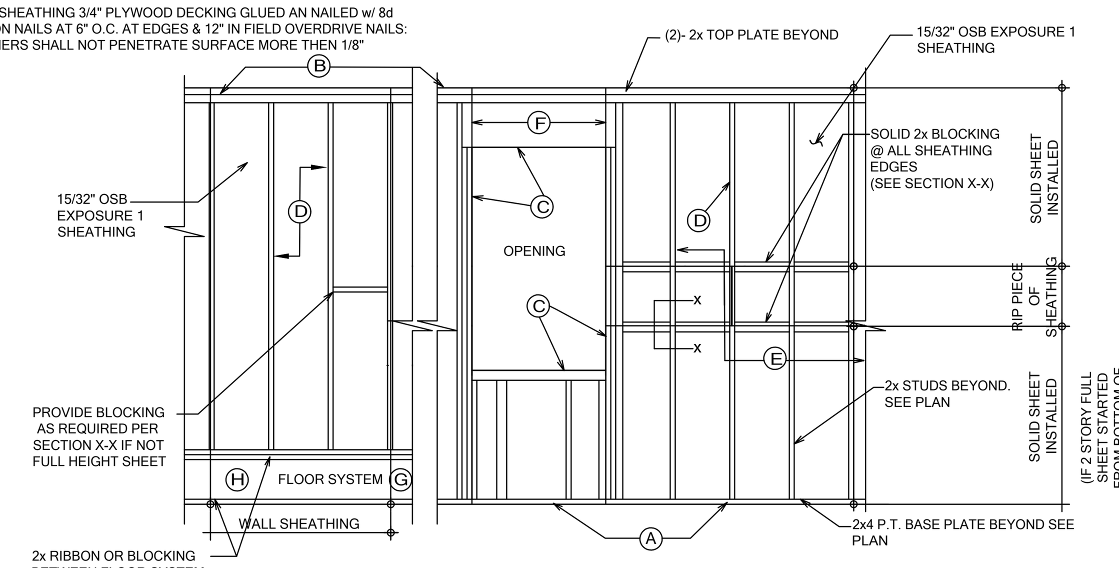
NOTE:
1) SEE TRUSS MANUFACTURER'S TRUSS ENGINEERING CUT SHEETS FOR ADDITIONAL PERMANENT BRACING THAT MAY BE REQUIRED
2) "T" BRACING MAY BE USED IN PLACE OF PERMANENT BRACING PROVIDED IT EXTENDS OVER AT LEAST 90% OF THE WEB.

TB05	REQUIRED MINIMUM PERMANENT TRUSS BRACING PLAN	NTS

WALL SHEATHING MAY BE INSTALLED VERTICALLY OR HORIZONTALLY, ATTACH PER NAILING SCHEDULE. PANEL EDGES WILL NEED TO BE ATTACHED TO STUD AND OR BLOCKING AT ALL EDGES. A MINIMUM 1/8" SPACE IS RECOMMENDED BETWEEN PANELS AT EDGES AND END JOINTS TO ALLOW FOR EXPANSION. FASTENERS SHALL NOT PENETRATE SURFACE MORE THAN 1/8".

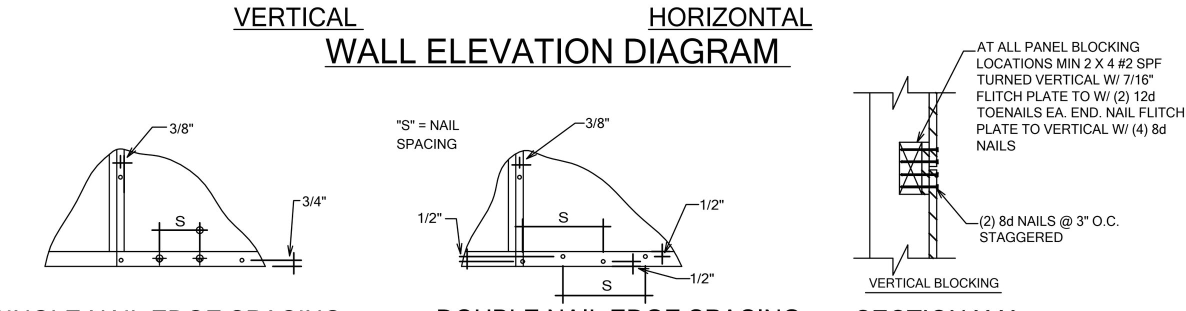
- (A) NAIL AT BASE 2 ROWS @ 4" O.C. w/ 8d COMMON NAIL.
- (B) NAIL AT TOP PLATE TWO ROWS @ 4" O.C. w/ 8d COMMON NAIL.
- (C) NAIL OPENING PERIMETER w/ (2) ROWS @ 4" O.C. w/ 8d COMMON NAIL.
- (D) NAIL INTERIOR AT 6" O.C. w/ 8d COMMON NAIL.
- (E) STAGGER ALL VERTICAL JOINTS & NAIL @ 4" O.C. w/ 8d COMMON NAIL.
- (F) PLYWOOD SPLICES @ HEADER - NAIL SHEATHING TO HEADER w/ 8d COMMON NAILS @ 4" O.C. (2) ROWS @ TOP & BOTT.
- (G) (2) 8d NAILS @ 3" O.C. TO EACH TRUSS END OR @ VERTICAL MEMBER IF GABLE END.
- (H) FLOOR SHEATHING 3/4" PLYWOOD DECKING GLUED AN NAILED w/ 8d COMMON NAILS AT 6" O.C. AT EDGES & 12" IN FIELD OVERDRIVE NAILS: FASTENERS SHALL NOT PENETRATE SURFACE MORE THEN 1/8"

NOTE: 8d NAILS FOR WALL SHEATHING MUST BE MIN .131" X 2 1/2". DO NOT OVERDRIVE NAILS: FASTENERS SHALL NOT PENETRATE SURFACE MORE THAN 1/8"



VERTICAL — HORIZONTAL

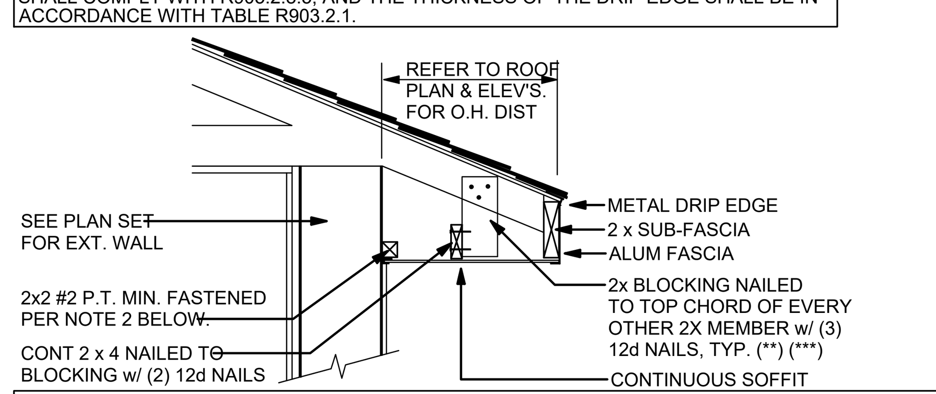
WALL ELEVATION DIAGRAM



SINGLE NAIL EDGE SPACING — DOUBLE NAIL EDGE SPACING — SECTION X-X

TB13	WALL SHEATHING INSTALLATION AND NAILING SCHEDULES	N.T.S.

R704.3 ALUMINUM FASCIA
ALUMINUM FASCIA SHALL HAVE A MINIMUM THICKNESS OF 0.019" AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THIS CODE. FASTENERS SHALL BE ALUMINUM OR STAINLESS STEEL. ALUMINUM FASCIA SHALL BE ATTACHED IN ACCORDANCE WITH SECTION R704.3.2 OR R704.3.3. THE DRIP EDGE SHALL COMPLY WITH R905.2.8.5, AND THE THICKNESS OF THE DRIP EDGE SHALL BE IN ACCORDANCE WITH TABLE R903.2.1.



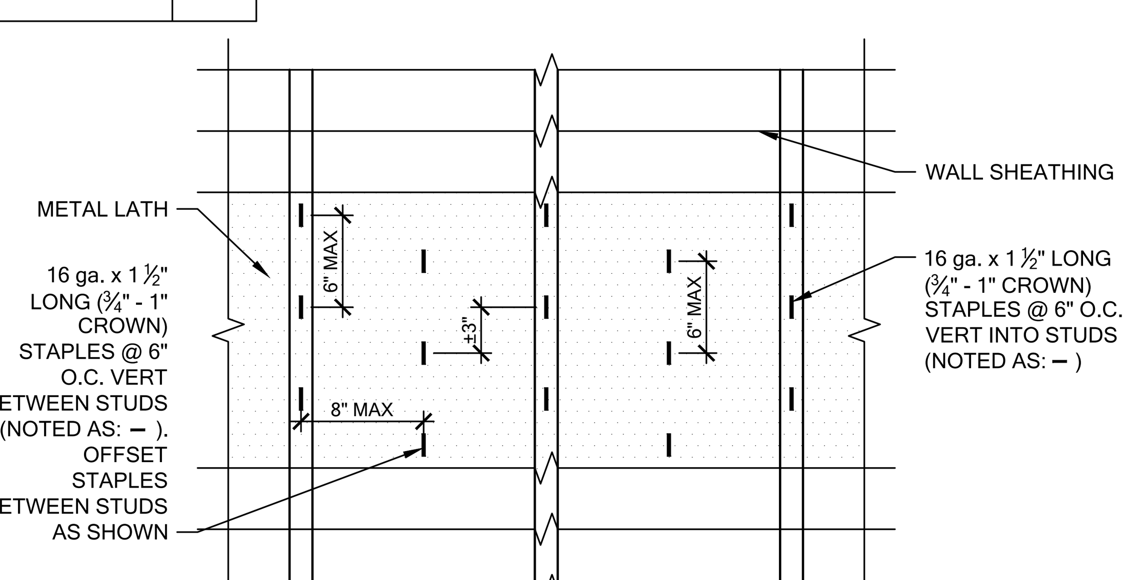
1. G.C. TO VERIFY SOFFIT MATERIAL SPAN CAPACITIES BASED ON THE DESIGN PRESSURES SPECIFIED FOR COMPONENT AND CLADDING LISTED IN THE DESIGN CRITERIA ON COVER PAGE.
2. 2x2 #2 MIN. P.T. W/ J-CHANNEL SECURED @ 24" O.C. FASTEN TO CMU W/ 3/16"x3" TITEN 2 @ 16" O.C. (ALT. PAF 0.145/0.157 & 0.300 WASHER W/ MIN. 1" EMBEDMENT @ 16" O.C. IF WOOD WALL, DIRECT APPLY TO STRUCTURE W/ 0.148"x3 1/4" NAILS @ 16"O.C.
3. (F) CHANNEL APPLICATION: 2x2 NOT REQUIRED SEE (PA) INSTALLATION GUIDE

(*) REFER TO THE PRODUCT APPROVAL FOR INSTALLATION DETAILS

(**) ALUMINUM SOFFITS > 1'-4" BLOCKING REQUIRED. FOR SOFFITS < 1'-4" MID BLOCKING NOT REQUIRED

(***) VINYL SOFFITS > 1'-0" SHALL HAVE MID BLOCKING PER R704.2.1

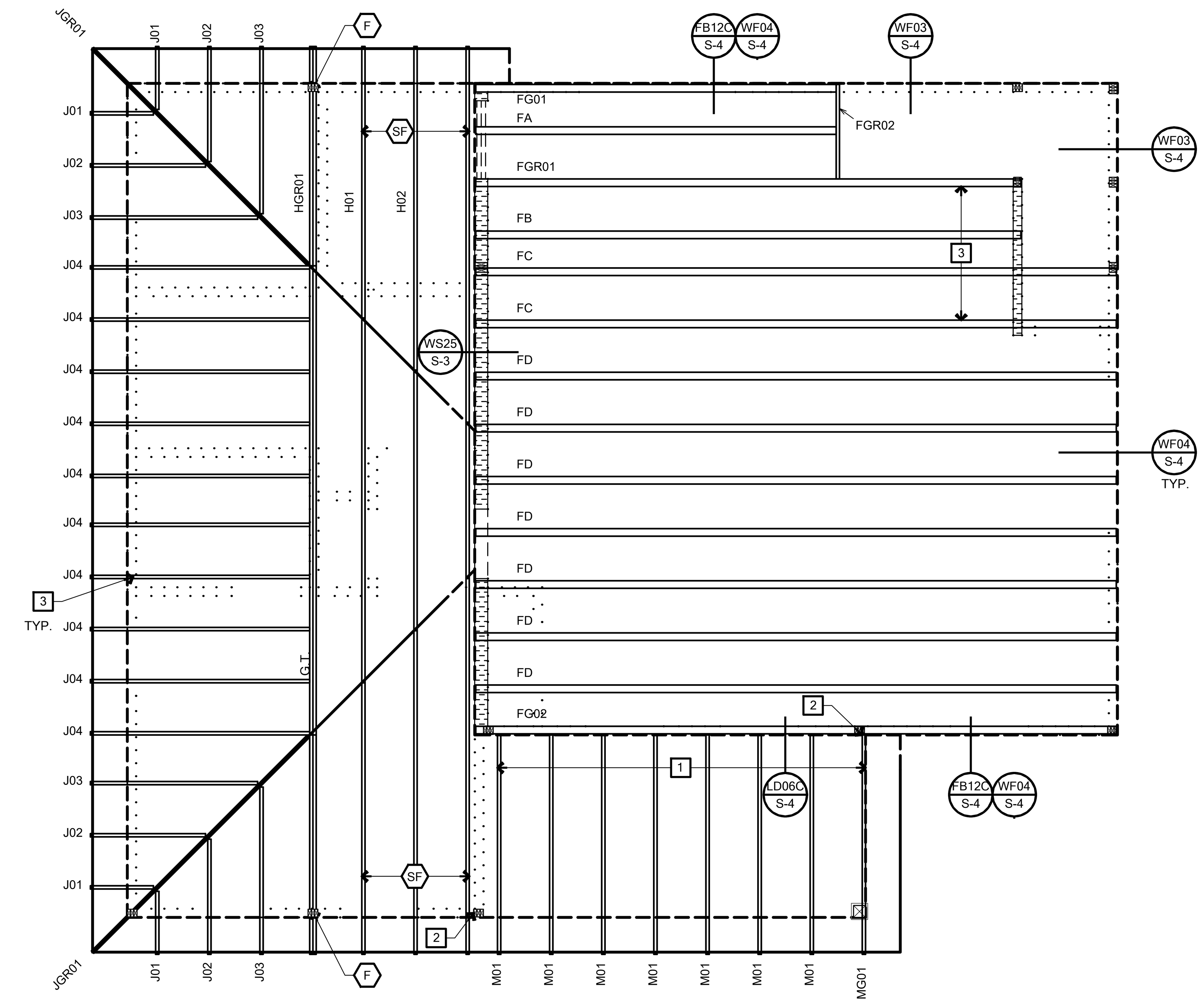
SF	TYPICAL SOFFIT SUPPORT DETAIL	3/4" = 1'-0"



THIS DETAIL ONLY REFERS TO THE DIAMOND-MESH EXPANDED METAL LATH ATTACHMENT.

DETAIL EXCEEDS THE REQUIREMENTS FOR FBCR 703.7.1 LATH

WF138	METAL LATH ATTACHMENT DETAIL	N.T.S.



FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0" @ 22X34

MARK	SIMPSON - CONNECTOR SCHEDULE: TYPE	CONNECTOR & FASTENERS	SPF	SYP	USP - CONNECTOR SCHEDULE: CONNECTOR & FASTENERS	SPF	SYP
B	FRAME TO FRAME	H2.5A w/ (10)8d NAILS	615	700	RT7A w/ (10)8d NAILS	515	585
C	FRAME TO FRAME	H10A w/(18)10d x 1 1/2" H10A-2 w/(18)10d x 1 1/2" AT 2 PLY TRUSSES	1015 930	1040 1080	RT16A w/(17)10d x 1 1/2" RT16-2 w/(16)10d x 1 1/2" AT 2 PLY TRUSSES	895 935	1020 1060
D	FRAME TO FRAME	MTS12 w/(14)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (3) 12d TOENAILS)	860	990	MTW12 w/(14)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (3) 12d TOENAILS)	1005	1195
F	FRAME TO FRAME	HTS20 w/(24)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (3)12d TOENAILS	1215	1415	HTW20 w/(24)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (3)12d TOENAILS	1285	1530
F.1	FRAME TO FRAME	(2) HTS20 w/(48)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (6)12d TOENAILS	2430	2830	(2) HTW20 w/(48)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (6)12d TOENAILS (EA)	2570	3060
J2	FRAME TO MASONRY / FRAME	(2) LGT2 w/ (32) 16d SINKERS & (14) 1/4" x 2 1/4" TITEN (2 PLY TRUSS) OR (28) 16d SINKERS FOR FRAME (EA)	3500-M 3510-F	4060-M 4080-F	(2) LUGT2 w/ (32) 16d SINKERS & (10) 1/4" x 3" WEDGE-BOLT (2 PLY TRUSS) OR (32) 16d SINKERS FOR FRAME (EA)	3100-M 3800-F	3100-M 4520-F
J3	FRAME TO MASONRY / FRAME	(2) LGT3 w/ (24) 1/4" x 3" SDS SCREWS & (8) 3/8" x 5" TITEN (2 PLY TRUSS) OR (52) 16d SINKERS FOR FRAME (EA)	4730-M 5010-F	6570-M 6960-F	(2) LUGT3 w/ (24) 1/4" x 2 1/2" WS25 SCREWS & (4) 3/8" x 5" WB (2 PLY TRUSS) OR (56) 16d SINKERS FOR FRAME (EA)	6480-M 6480-F	7050-M 7710-F
K	BEAM TO BEAM	HU410 OPT HUC410 w/ (18) 16d & (10) 10d NAILS		G#2680 U#1895	HD410 OPT HD410IF w/ (20) 16d & (10) 10d NAILS		G#3080 U#1950
L2	BEAM TO MASONRY / FRAME	HU46 OPT HUC46 w/ (6) 10d NAILS & (12) 1/4" x 2 3/4" TITEN (TO MAS.) OR (12) 16d & (6) 10d (FOR FRAME)	G#2165 U#1135 SYP-F	G#3000 U#1135 SYP-M	HD46 OPT HU46 w/ (6) 10d NAILS & (12) 1/4" x 2 3/4" TAPCONS (TO MAS.) OR (12) 16d & (6) 10d (FOR FRAME)	G#1625 U#1030 SYP-F	G#2015 U#850 SYP-M
X	FRAME TO FRAME	VGT w/ (16) 1/4"x3" SDS WOOD SCREWS & HUDE5-SDS3 w/ (10) 1/4"x3" SDS WOOD SCREWS & (1) 5/8" Ø A.T.R.	3555	4940	MUGT15 w/ (22) 10d NAILS & HTT45 w/ (18) 10d NAILS & (1) 5/8" Ø A.T.R.	-	4160
Y		NOT USED					

CONNECTOR SCHEDULE (TRUSS TO TOP PLATE)

SIMPSON SDWC SCREWS				UPLIFT		LATERAL F1		LATERAL F2	
MARK	NOMENCLATURE	QTY	TRUSS PLY	SYP	SPF	SYP	SPF	SYP	SPF
SC	SDWC15600	1	1	645	485	360	235	225	190
SF	SDWC15600	2	1	905	850	535	330	790	595
SM	SDWC15600	2	2 OR 3	1160	870	535	330	790	595

NOTES:
1. SDWC IS TO BE INSTALLED THROUGH A DOUBLE 2x TOP PLATE INTO A MINIMUM 2x4 TRUSS OR RAFTER.
2. SDWC SCREWS SHALL BE DRIVEN SUCH THAT THE SHANK IS FULLY EMBEDDED IN THE CONNECTION MEMBERS, THE HEAD IS IN CONTACT WITH OR EMBEDDED IN THE SIDE MEMBER, AND THE POINT DOES NOT PROTRUDE FROM THE LATERAL SURFACE OF THE MAIN MEMBER. WHEN EMBEDDED, THE TOP SURFACE OF THE HEAD SHALL BE NO MORE THAN 1/8" BEYOND FLUSH.
3. SCREW INSTALLATION ON THE EXTERIOR SIDE OF THE WALL ARE ACCEPTABLE WHEN THE RAFTER/TRUSS OVERHANGS THE TOP PLATES A MINIMUM OF 3-1/2"
4. DIRECTIONS: F1 IS A FORCE PARALLEL TO THE TOP PLATE; F2 IS A FORCE PERPENDICULAR TO THE TOP PLATE; UPLIFT IS A VERTICAL UPWARD FORCE.
5. SDWC SCREWS MUST BE OFFSET MIN. 1/4" FROM TOP-PLATE SPLICES FOR FULL VALUES.
6. STRONG-DRIVE STRUCTURAL WOOD SCREWS FOR TRUSS/RAFTER, STUD-TO-PLATE, AND FLOOR-TO-FLOOR CONNECTIONS ARE MANUFACTURED AND TRANDEMARKED BY "SIMPSON STRONG-TIE COMPANY, INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA. 94588 TEL: (800) 888-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY.

GENERAL CONNECTOR NOTES:
1. CONNECT ALL FLOOR TRUSSES TO INTERIOR BEARING WOOD WALLS / BEAMS w/ (2) 12d TOENAILS.
2. ALL TRUSS TO TRUSS CONNECTIONS ARE PROVIDED BY TRUSS MANUFACTURER, U.N.O ON PLAN.
3. G.C. MAY USE EITHER SIMPSON OR USP CONNECTIONS, SEE FRAMING PLAN FOR CONNECTOR CALL OUT.
4. FOR SINGLE PLY TRUSSES, SCAB ON FULL HEIGHT SYP #1 2"x4" TO TRUSS VERTICAL WEB w/ (2) ROWS OF 10d NAILS @ 3" O.C. STAGGERED.
5. 12" MIN. A.T.R. EMBEDMENT @ CMU BOND BEAM U.N.O.
6. SCAB TRUSS CHORD w/ 4'-0" 2x SYP #2 (MATCH CHORD LUMBER SIZE) w/ (2) ROWS 10d @ 4" FROM END & 4" O.C. STAGGERED; CENTER AT CONNECTOR LOCATION AS MUCH AS POSSIBLE.

(SC) MINIMAL CONNECTOR UNO ON FRAMING PLAN
1. CONNECTION FOR ALL ROOF / FLOOR TRUSSES TO FRAME WALLS & BEAMS UNO ON PLAN
2. CONNECTION AT 24" OR 32" O.C. PENDING VERTICALS FOR ALL FLOOR TRUSSES PARALLEL TO FRAME WALLS.
3. CONNECTION FOR ALL HIP JACK (CORNER JACK) TO FRAME WALLS & BEAMS
4. CONNECTION FOR ALL CONTINUOUS RIM BOARD TO TOP OF MASONRY AT 32" O.C MAX. w/ (2) AT EACH CORNER. G.C. TO VERIFY LOCATION DOES NOT CONFLICT w/TJI (IF APPLICABLE) LAYOUT
5. CONNECT ALL FLOOR TRUSSES TO INTERIOR BEARING WOOD WALL/BEAMS w/ (2) 12d TONAILS

(SC) MINIMAL CONNECTOR UNO ON FRAMING PLAN
1. CONNECTION FOR JACK TRUSS TO WOOD WALL OR BEAM

(SC) MINIMAL CONNECTOR UNO ON FRAMING PLAN
1. CONNECTION FOR ALL TRUSSES TO INTERIOR/EXTERIOR BEARING WOOD WALLS AND/OR BEAMS

ROOF FRAMING NOTES

1. SHINGLE OR METAL ROOFING SYSTEM (SEE ARCH.) SHEATHING - SEE [RSH] SCHEDULE THIS SHT. FOR SHT'G & FASTENERS ON PRE- ENGINEERED WOOD TRUSSES AT 2'-0" O.C. MAX. OR CONVENTIONAL FRAME ROOF.(SEE PLAN FOR SIZE AND SPACING. SEE ARCHITECTURAL PLAN FOR TYPICAL ROOF SLOPE AND OTHER INFORMATION. TILE ROOFING SYSTEM (SEE ARCH.) SEE [RSH] SCHEDULE THIS SHEET THE EXTERIOR CEILING FOR THE ENTRIES AND PORCHES SHALL HAVE EITHER 7/16" OSB.
2. EXPOSURE 1 SHEATHING OR 1/2" DENSGLASS TO THE UNDERSIDE OF THE ROOF TRUSSES. ALL PANEL EDGES ARE TO BE BLOCKED SOLID WITH 2x4 #2 SYP WITH (3) 10d TOENAILS EACH END. THE SHEATHING IS TO BE NAILED WITH 8d NAILS AT 4" ON CENTER AT ALL EDGES AND THEN 8" ON CENTER IN FIELD.
3. FOR UNDERLAYMENT REQUIREMENTS SEE R905.1.1.1

- - - NOTE TO FRAMER - - -

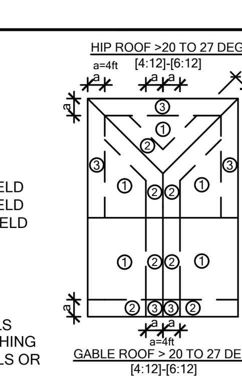
IF ROOF TRUSS LAYOUT SHOWS TRUSS ID'S, THIS LAYOUT HAS BEEN PROVIDED BY THE CLIENT/ DESIGNER OR ARCHITECT TO USE FOR THE DESIGN OF THIS PROJECT. OTHERWISE A GENERIC LAYOUT HAS BEEN DETERMINED, BUT PRIOR TO CONSTRUCTION OR TRUSS FABRICATION, FINAL TRUSS LAYOUT AND TRUSS SHOP DRAWINGS ARE TO BE SUBMITTED TO ENGINEER OF RECORD (E.O.R.) FOR REVIEW AND APPROVAL. AT THIS TIME THE E.O.R. RESERVES THE RIGHT TO REVISE THE PLAN AS REQUIRED PER THE REVIEW OF THE FINAL TRUSS LAYOUT AND TRUSS SHOP DRAWINGS, ADDITIONAL FEE'S MAY APPLY. STARTING CONSTRUCTION OR TRUSS FABRICATION PRIOR TO THIS REVIEW IS NOT ADVISED, AND THE E.O.R. IS NOT RESPONSIBLE FOR ADDITIONAL COSTS DUE TO REVISIONS OF THE PLAN. IF CONVENTIONAL FRAMING IS SHOWN, NO TRUSS APPROVAL IS REQUIRED, UNLESS LAYOUT IS REVISED W/OUT WRITTEN APPROVAL FROM TSG.

SEE PLAN SET FOR TRUSS BRACING AND ADDITIONAL ROOF INFORMATION

RSH — ENGINEERED ROOF PER ASCE 7-22 ROOF DESIGN ALLOWABLE COMPONENTS AND CLADDING WIND PRESSURES AND SUCTIONS FOR MEAN ROOF HEIGHT ≤ 25 ft

WIND SPEED (ULTIMATE)	140 MPH
WIND SPEED (ALLOWABLE)	108 MPH
EXPOSURE CATEGORY	B

EFFECTIVE WIND AREA (SQ FEET)	WIND PRESSURE AND SUCTION (PSF) (-) VALUE DENOTES SUCTION			
AREA	ROOF	1	2	3
10	HIP	-26.60	-36.75	-36.75
	GABLE	-28.29	-45.12	-53.58



ROOF NAILING SCHEDULE/ NAILING ZONES (SHINGLE AND TILE):
ZONE 1: ASTM F1667 RSRS-01 (8d) NAILS @ 6" O.C. ON EDGE & 6" O.C IN FIELD
ZONE 2: ASTM F1667 RSRS-01 (8d) NAILS @ 4" O.C. ON EDGE & 4" O.C IN FIELD
ZONE 3: ASTM F1667 RSRS-01 (8d) NAILS @ 4" O.C. ON EDGE & 4" O.C IN FIELD

ROOF SHEATHING:
SHINGLE: 7/16" EXP. 1 (24/16) or 15/32" EXP. 1 (32/16)
TILE: 15/32" EXP. 1 (32/16)

NOTE:
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1. SIMPSON LUS26 w/ (4) 0.148"x3" TO TRUSS AND (4) 0.148"x3" TO LEDGER
2. HU610 OPT HUC610 w/ (14) 0.162"x3 1/2" & (6) 0.162"x3 1/2" NAILS
3. MIN. (1) SDWC15600 OPT. H10A

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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

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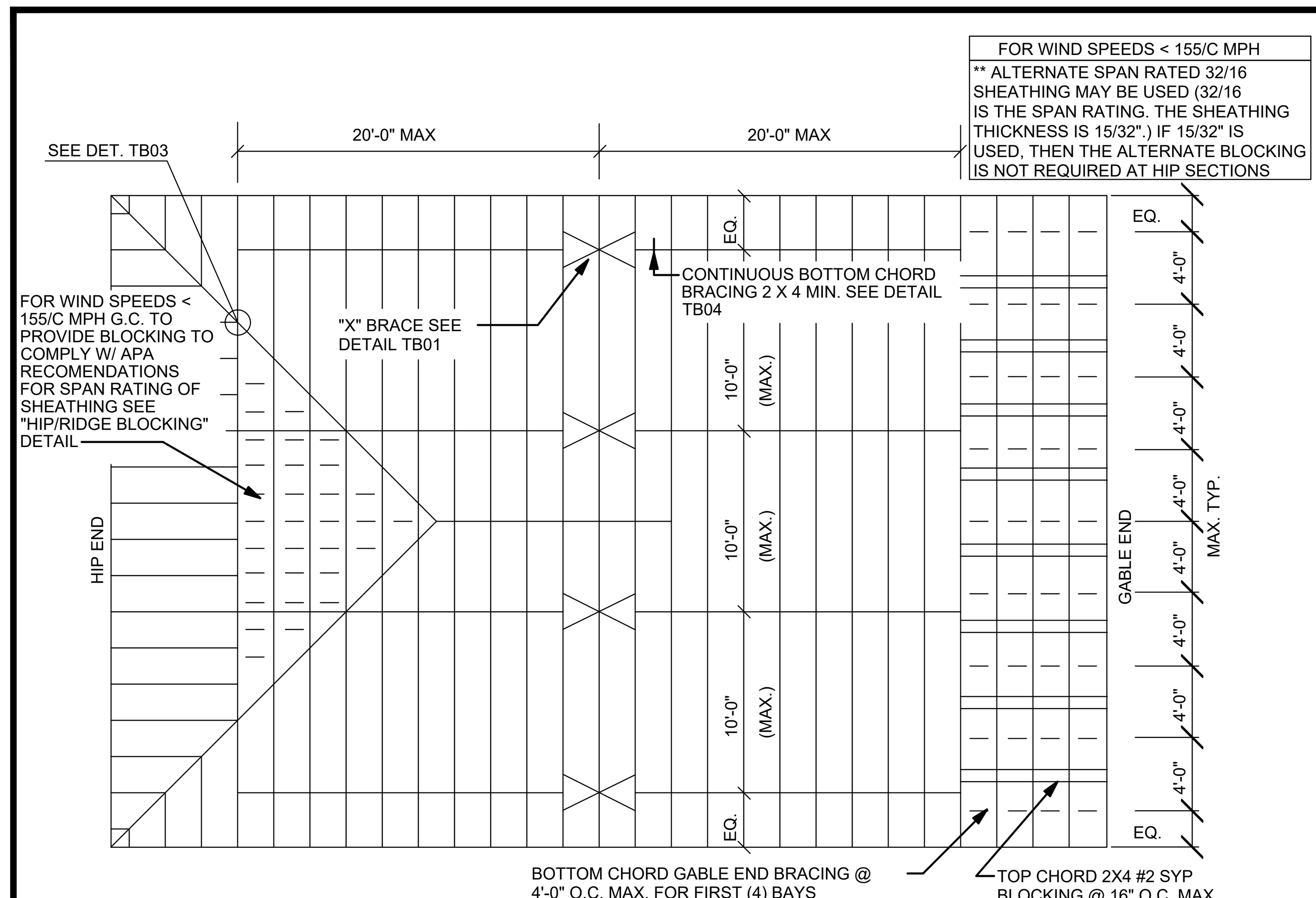
4166 Silver Star Rd.
Orlando, Fl. 32808
office: (407) 648-4567
habitatorlandoosceola.org

LOT: | BLK: | UNIT:
Community:
Plan Name: 1400 Mercy Drive
Elev:
Garage:
Version: 0.0
Project Address: 1234 South Road, City Florida 123456
Client No.: Client No.

Project No: 25-09339
Sheet No: S-1

Saved BY: ERNESTO.SOTO Date: 7/10/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing files\25-09339 Mercy Drive Model.dwg



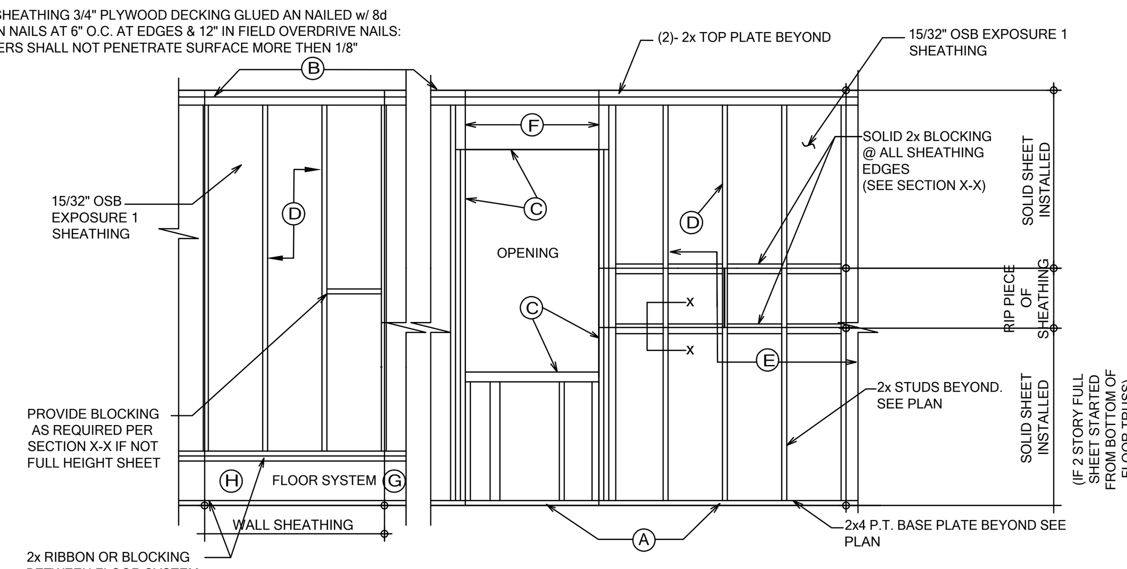
NOTE:
1) SEE TRUSS MANUFACTURER'S TRUSS ENGINEERING CUT SHEETS FOR ADDITIONAL PERMANENT BRACING THAT MAY BE REQUIRED
2) "T" BRACING MAY BE USED IN PLACE OF PERMANENT BRACING PROVIDED IT EXTENDS OVER AT LEAST 90% OF THE WEB.

TB05	REQUIRED MINIMUM PERMANENT TRUSS BRACING PLAN	NTS

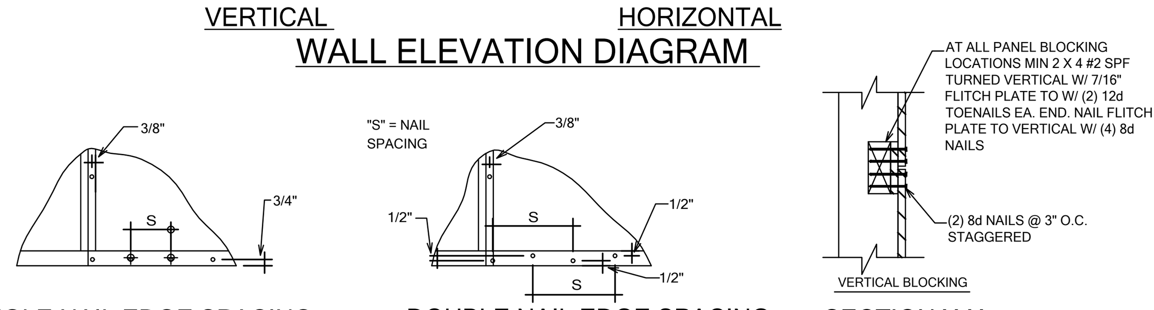
WALL SHEATHING MAY BE INSTALLED VERTICALLY OR HORIZONTALLY, ATTACH PER NAILING SCHEDULE. PANEL EDGES WILL NEED TO BE ATTACHED TO STUD AND OR BLOCKING AT ALL EDGES. A MINIMUM 1/8" SPACE IS RECOMMENDED BETWEEN PANELS AT EDGES AND END JOINTS TO ALLOW FOR EXPANSION. FASTENERS SHALL NOT PENETRATE SURFACE MORE THAN 1/8".

- (A) NAIL AT BASE 2 ROWS @ 4" O.C. w/ 8d COMMON NAIL.
- (B) NAIL AT TOP PLATE TWO ROWS @ 4" O.C. w/ 8d COMMON NAIL.
- (C) NAIL OPENING PERIMETER w/ (2) ROWS @ 4" O.C. w/ 8d COMMON NAIL.
- (D) NAIL INTERIOR AT 6" O.C. w/ 8d COMMON NAIL.
- (E) STAGGER ALL VERTICAL JOINTS & NAIL @ 4" O.C. w/ 8d COMMON NAIL.
- (F) PLYWOOD SPLICES @ HEADER - NAIL SHEATHING TO HEADER w/ 8d COMMON NAILS @ 4" O.C. (2) ROWS @ TOP & BOTT.
- (G) (2) 8d NAILS @ 3" O.C. TO EACH TRUSS END OR @ VERTICAL MEMBER IF GABLE END.
- (H) FLOOR SHEATHING 3/4" PLYWOOD DECKING GLUED AN NAILED w/ 8d COMMON NAILS AT 6" O.C. AT EDGES & 12" IN FIELD OVERDRIVE NAILS: FASTENERS SHALL NOT PENETRATE SURFACE MORE THEN 1/8"

NOTE: 8d NAILS FOR WALL SHEATHING MUST BE MIN .131" X 2 1/2". DO NOT OVERDRIVE NAILS: FASTENERS SHALL NOT PENETRATE SURFACE MORE THAN 1/8"



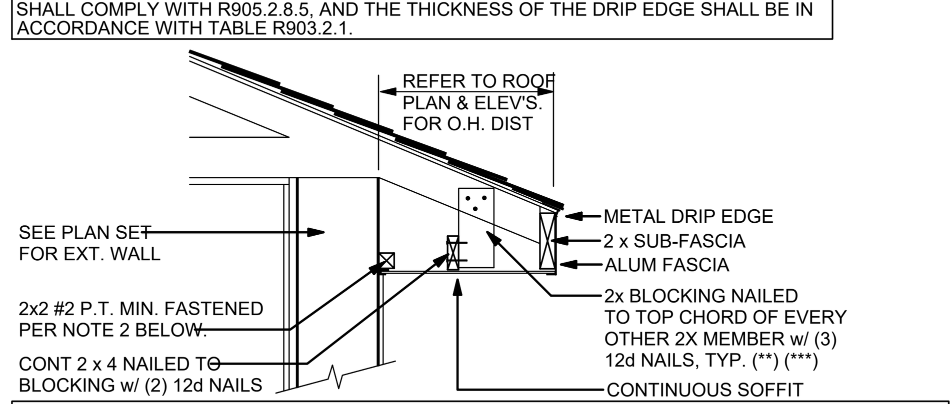
WALL ELEVATION DIAGRAM



SINGLE NAIL EDGE SPACING — DOUBLE NAIL EDGE SPACING — SECTION X-X

TB13	WALL SHEATHING INSTALLATION AND NAILING SCHEDULES	N.T.S.

R704.3 ALUMINUM FASCIA
ALUMINUM FASCIA SHALL HAVE A MINIMUM THICKNESS OF 0.019" AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THIS CODE. FASTENERS SHALL BE ALUMINUM OR STAINLESS STEEL. ALUMINUM FASCIA SHALL BE ATTACHED IN ACCORDANCE WITH SECTION R704.3.2 OR R704.3.3. THE DRIP EDGE SHALL COMPLY WITH R905.2.8.5, AND THE THICKNESS OF THE DRIP EDGE SHALL BE IN ACCORDANCE WITH TABLE R903.2.1.



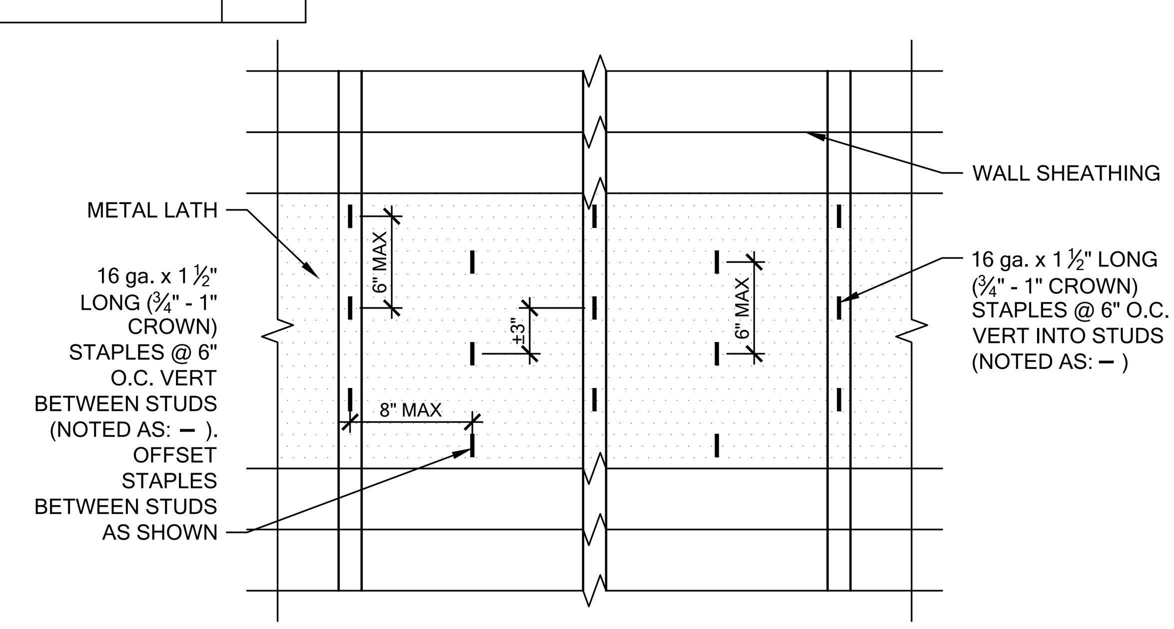
1. G.C. TO VERIFY SOFFIT MATERIAL SPAN CAPACITIES BASED ON THE DESIGN PRESSURES SPECIFIED FOR COMPONENT AND CLADDING LISTED IN THE DESIGN CRITERIA ON COVER PAGE.
2. 2x2 #2 MIN. P.T. W/ J-CHANNEL SECURED @ 24" O.C. FASTEN TO CMU W/ 3/16"x3" TITEN 2 @ 16" O.C. (ALT. PAF 0.145/0.157 & 0.300 WASHER W/ MIN. 1" EMBEDMENT @ 16" O.C. IF WOOD WALL, DIRECT APPLY TO STRUCTURE W/ 0.148"x3 1/4" NAILS @ 16"O.C.
3. (F) CHANNEL APPLICATION: 2x2 NOT REQUIRED SEE (PA) INSTALLATION GUIDE

(*) REFER TO THE PRODUCT APPROVAL FOR INSTALLATION DETAILS

(**) ALUMINUM SOFFITS > 1'-4" BLOCKING REQUIRED. FOR SOFFITS < 1'-4" MID BLOCKING NOT REQUIRED

(***) VINYL SOFFITS > 1'-0" SHALL HAVE MID BLOCKING PER R704.2.1

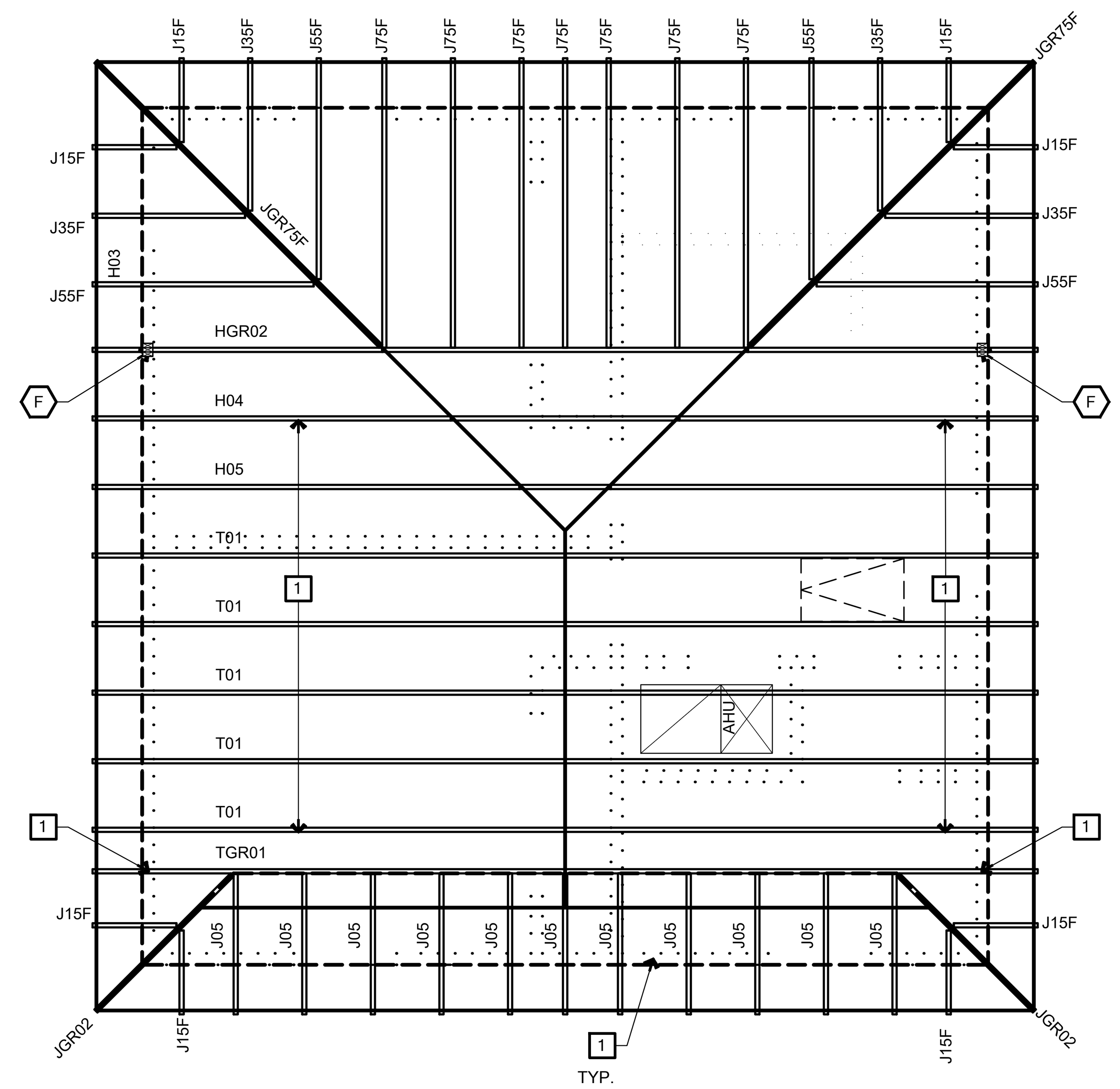
SF	TYPICAL SOFFIT SUPPORT DETAIL	3/4" = 1'-0"



THIS DETAIL ONLY REFERS TO THE DIAMOND-MESH EXPANDED METAL LATH ATTACHMENT.

DETAIL EXCEEDS THE REQUIREMENTS FOR FBCR 703.7.1 LATH

WF138	METAL LATH ATTACHMENT DETAIL	N.T.S.



ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0" @ 22X34

MARK	TYPE	SIMPSON - CONNECTOR SCHEDULE: CONNECTOR & FASTENERS	SPF	SYP	USP - CONNECTOR SCHEDULE: CONNECTOR & FASTENERS	SPF	SYP
B	FRAME TO FRAME	H2.5A w/ (10)8d NAILS	615	700	RT7A w/ (10)8d NAILS	515	585
C	FRAME TO FRAME	H10A w/(18)10d x 1 1/2" H10A-2 w/(18)10d x 1 1/2" AT 2 PLY TRUSSES	1015 930	1040 1080	RT16A w/(17)10d x 1 1/2" RT16-2 w/(16)10d x 1 1/2" AT 2 PLY TRUSSES	895 935	1020 1060
D	FRAME TO FRAME	MTS12 w/(14)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (3) 12d TOENAILS)	860	990	MTW12 w/(14)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (3) 12d TOENAILS)	1005	1195
F	FRAME TO FRAME	HTS20 w/(24)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (3)12d TOENAILS	1215	1415	HTW20 w/(24)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (3)12d TOENAILS	1285	1530
F1	FRAME TO FRAME	(2) HTS20 w/(48)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (6)12d TOENAILS	2430	2830	(2) HTW20 w/(48)10d x 1 1/2" (AT EXTERIOR LOCATION INCLUDE (6)12d TOENAILS (EA)	2570	3060
J2	FRAME TO MASONRY / FRAME	(2) LGT2 w/ (32) 16d SINKERS & (14) 1/4" x 2 1/4" TITEN (2 PLY TRUSS) OR (28) 16d SINKERS FOR FRAME (EA)	3500-M 3510-F	4060-M 4080-F	(2) LUGT2 w/ (32) 16d SINKERS & (10) 1/4" x 3" WEDGE-BOLT (2 PLY TRUSS) OR (32) 16d SINKERS FOR FRAME (EA)	3100-M 3800-F	3100-M 4520-F
J3	FRAME TO MASONRY / FRAME	(2) LGT3 w/ (24) 1/4" x 3" SDS SCREWS & (8) 3/8" x 5" TITEN (2 PLY TRUSS) OR (52) 16d SINKERS FOR FRAME (EA)	4730-M 5010-F	6570-M 6960-F	(2) LUGT3 w/ (24) 1/4" x 2 1/2" WS25 SCREWS & (4) 3/8" x 5" WB (2 PLY TRUSS) OR (56) 16d SINKERS FOR FRAME (EA)	6480-M 6480-F	7050-M 7710-F
K	BEAM TO BEAM	HU410 OPT HUC410 w/ (18) 16d & (10) 10d NAILS		G#2680 U#1895	HD410 OPT HD410IF w/ (20) 16d & (10) 10d NAILS		G#3080 U#1950
L2	BEAM TO MASONRY / FRAME	HU46 OPT HUC46 w/ (6) 10d NAILS & (12) 1/4" x 2 3/4" TITEN (TO MAS.) OR (12) 16d & (6) 10d (FOR FRAME)	G#2165 U#1135 SYP-F	G#3000 U#1135 SYP-M	HD46 OPT HU46 w/ (6) 10d NAILS & (12) 1/4" x 2 3/4" TAPCONS (TO MAS.) OR (12) 16d & (6) 10d (FOR FRAME)	G#1625 U#1030 SYP-F	G#2015 U#850 SYP-M
X	FRAME TO FRAME	VGT w/ (16) 1/4"x3" SDS WOOD SCREWS & HUDE5-SDS3 w/ (10) 1/4"x3" SDS WOOD SCREWS & (1) 5/8" Ø A.T.R.	3555	4940	MUGT15 w/ (22) 10d NAILS & HTT45 w/ (18) 10d NAILS & (1) 5/8" Ø A.T.R.	-	4160
Y		NOT USED					

CONNECTOR SCHEDULE (TRUSS TO TOP PLATE)

SIMPSON SDWC SCREWS				UPLIFT		LATERAL F1		LATERAL F2	
MARK	NOMENCLATURE	QTY	TRUSS PLY	SYP	SPF	SYP	SPF	SYP	SPF
SC	SDWC15600	1	1	645	485	360	235	225	190
SF	SDWC15600	2	1	905	850	535	330	790	595
SM	SDWC15600	2	2 OR 3	1160	870	535	330	790	595

NOTES:
1. SDWC IS TO BE INSTALLED THROUGH A DOUBLE 2x TOP PLATE INTO A MINIMUM 2x4 TRUSS OR RAFTER.
2. SDWC SCREWS SHALL BE DRIVEN SUCH THAT THE SHANK IS FULLY EMBEDDED IN THE CONNECTION MEMBERS, THE HEAD IS IN CONTACT WITH OR EMBEDDED IN THE SIDE MEMBER, AND THE POINT DOES NOT PROTRUDE FROM THE LATERAL SURFACE OF THE MAIN MEMBER. WHEN EMBEDDED, THE TOP SURFACE OF THE HEAD SHALL BE NO MORE THAN 1/8" BEYOND FLUSH.
3. SCREW INSTALLATION ON THE EXTERIOR SIDE OF THE WALL ARE ACCEPTABLE WHEN THE RAFTER/TRUSS OVERHANGS THE TOP PLATES A MINIMUM OF 3-1/2"
4. DIRECTIONS: F1 IS A FORCE PARALLEL TO THE TOP PLATE; F2 IS A FORCE PERPENDICULAR TO THE TOP PLATE; UPLIFT IS A VERTICAL UPWARD FORCE.
5. SDWC SCREWS MUST BE OFFSET MIN. 1/4" FROM TOP-PLATE SPLICES FOR FULL VALUES.
6. STRONG-DRIVE STRUCTURAL WOOD SCREWS FOR TRUSS/RAFTER, STUD-TO-PLATE, AND FLOOR-TO-FLOOR CONNECTIONS ARE MANUFACTURED AND TRANDEMARKED BY "SIMPSON STRONG-TIE COMPANY, INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA. 94588 TEL: (800) 888-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY.

GENERAL CONNECTOR NOTES:
1. CONNECT ALL FLOOR TRUSSES TO INTERIOR BEARING WOOD WALLS / BEAMS w/ (2) 12d TOENAILS.
2. ALL TRUSS TO TRUSS CONNECTIONS ARE PROVIDED BY TRUSS MANUFACTURER, U.N.O ON PLAN.
3. G.C. MAY USE EITHER SIMPSON OR USP CONNECTIONS, SEE FRAMING PLAN FOR CONNECTOR CALL OUT.
4. FOR SINGLE PLY TRUSSES, SCAB ON FULL HEIGHT SYP #1 2"x4" TO TRUSS VERTICAL WEB w/ (2) ROWS OF 10d NAILS @ 3" O.C. STAGGERED.
5. 12" MIN. A.T.R. EMBEDMENT @ CMU BOND BEAM U.N.O.
6. SCAB TRUSS CHORD w/ 4'-0" 2x SYP #2 (MATCH CHORD LUMBER SIZE) w/ (2) ROWS 10d @ 4" FROM END & 4" O.C. STAGGERED; CENTER AT CONNECTOR LOCATION AS MUCH AS POSSIBLE.

(SC) MINIMAL CONNECTOR UNO ON FRAMING PLAN
1. CONNECTION FOR ALL ROOF / FLOOR TRUSSES TO FRAME WALLS & BEAMS UNO ON PLAN
2. CONNECTION AT 24" OR 32" O.C. PENDING VERTICALS FOR ALL FLOOR TRUSSES PARALLEL TO FRAME WALLS.
3. CONNECTION FOR ALL HIP JACK (CORNER JACK) TO FRAME WALLS & BEAMS
4. CONNECTION FOR ALL CONTINUOUS RIM BOARD TO TOP OF MASONRY AT 32" O.C MAX. w/ (2) AT EACH CORNER. G.C. TO VERIFY LOCATION DOES NOT CONFLICT w/TJI (IF APPLICABLE) LAYOUT
5. CONNECT ALL FLOOR TRUSSES TO INTERIOR BEARING WOOD WALL/BEAMS w/ (2) 12d TONAILS

(SC) MINIMAL CONNECTOR UNO ON FRAMING PLAN
1. CONNECTION FOR JACK TRUSS TO WOOD WALL OR BEAM

(SC) MINIMAL CONNECTOR UNO ON FRAMING PLAN
1. CONNECTION FOR ALL TRUSSES TO INTERIOR/EXTERIOR BEARING WOOD WALLS AND/OR BEAMS

ROOF FRAMING NOTES

1. SHINGLE OR METAL ROOFING SYSTEM (SEE ARCH.) SHEATHING - SEE [RSH] SCHEDULE THIS SHT. FOR SHT'G & FASTENERS ON PRE- ENGINEERED WOOD TRUSSES AT 2'-0" O.C. MAX. OR CONVENTIONAL FRAME ROOF.(SEE PLAN FOR SIZE AND SPACING. SEE ARCHITECTURAL PLAN FOR TYPICAL ROOF SLOPE AND OTHER INFORMATION. TILE ROOFING SYSTEM (SEE ARCH.) SEE [RSH] SCHEDULE THIS SHEET THE EXTERIOR CEILING FOR THE ENTRIES AND PORCHES SHALL HAVE EITHER 7/16" OSB.
2. EXPOSURE 1 SHEATHING OR 1/2" DENSGLASS TO THE UNDERSIDE OF THE ROOF TRUSSES. ALL PANEL EDGES ARE TO BE BLOCKED SOLID WITH 2x4 #2 SYP WITH (3) 10d TOENAILS EACH END. THE SHEATHING IS TO BE NAILED WITH 8d NAILS AT 4" ON CENTER AT ALL EDGES AND THEN 8" ON CENTER IN FIELD.
3. FOR UNDERLAYMENT REQUIREMENTS SEE R905.1.1.1

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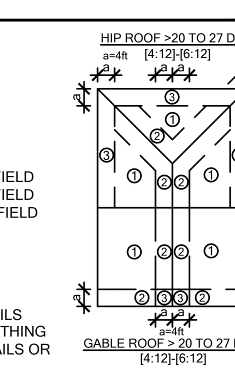

[1] MIN. (1) SDWC15600 OPT. H10A

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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

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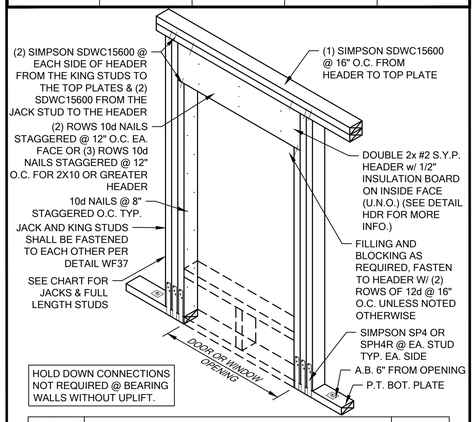
Orlando, Fl. 32808
office: (407) 648-4567
habitatorlandoosceola.org

LOT: | BLK: | UNIT:
Community:
Plan Name: 1400 Mercy Drive
Elev: | Garage:
Project Address: 1234 South Road City Florida 123456
Version: 0.0
Client No.: Client No.

Project No: 25-09339
Sheet No: S-1.1

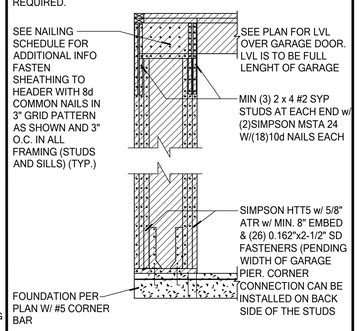
HEADER SUPPORT # OF JACKS & STUDS REQ'D AT OPENINGS

OPENING SIZE	2x4 WALL		2x6 WALL	
	JACKS (EA END)	KINGS (EA END)	JACKS (EA END)	KINGS (EA END)
> 4'-0"	(1)	(2)	(1)	(2)
> 4'-0" BUT > 9'-0"	(2)	(3)	(2)	(2)
10'-0" - 16'-0"	(3)	(4)	(3)	(4)

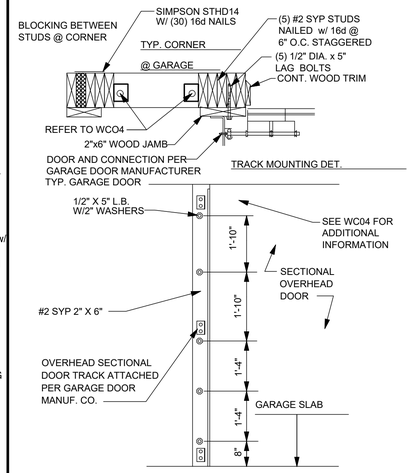


WF09	WALL HEADER DETAIL	N.T.S.

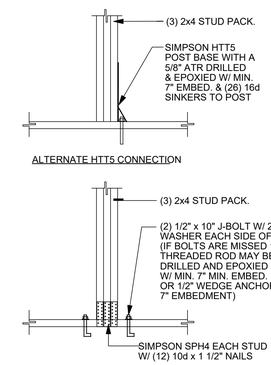
NOTE: IF PANEL SPLICE IS NEEDED IT SHALL OCCUR WITHIN 24" OF MID-HEIGHT. BLOCKING IS NOT REQUIRED.



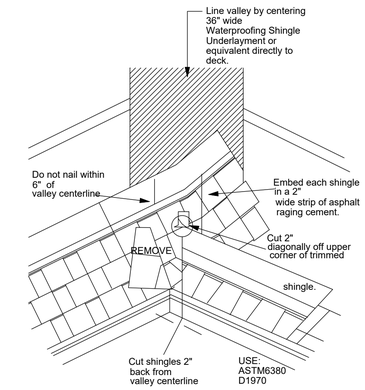
WC04	GARAGE HEADER ANCHOR	3/4" = 1'-0"



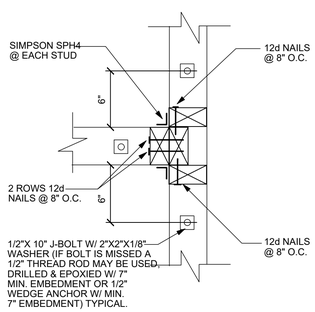
WC05	SECT. OVERHEAD GAR. DOOR INSTALL	N.T.S.



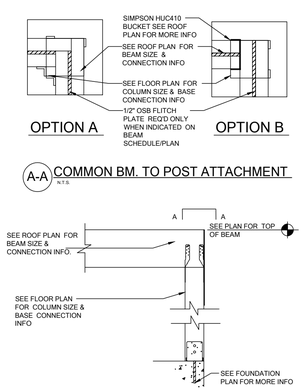
CD26	GIRDER BASE CONNECTION	1/2" = 1'-0"



RD01	VALLEY FLASHING DETAIL	N.T.S.

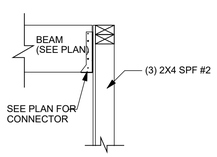


WC03	WALL TO WALL CONN. @ END OF SHEARWALL	1 1/2" = 1'-0"



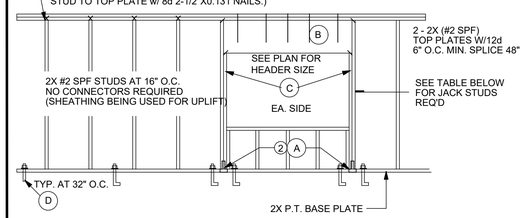
CD11	PORCH POST DETAIL	N.T.S.

NOTE: @ ALL EXT. CONDITIONS ATTACH 2x STUDS TO TOP PLATE W/ (2) SIMPSON SDWC15600 SCREWS (1) ON EA. SIDE TYP.



CD25	BEAM TO WALL CONNECTION	N.T.S.

NOTE: @ ALL EXT. CONDITIONS ATTACH 2x STUDS TO TOP PLATE W/ (2) SIMPSON SDWC15600 SCREWS (1) ON EA. SIDE TYP.
(MAY BE SUBSTITUTED W/ (1) SIMPSON H2.5A CONNECTOR 2 EA. STUD TO TOP PLATE w/ 8d 2-1/2"X0.131 NAILS.)

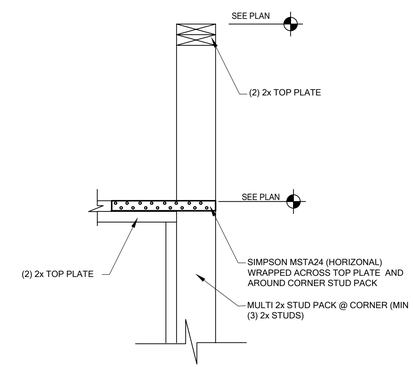


CONNECTOR LEGEND	
A	SIMPSON SPH4 W/ 12-10d x 1/2
B	(1) SIMPSON SDWC15600 @ 16" O.C.
C	(2) SIMPSON SDWC15600 @ EACH SIDE OF HEADER FROM KING STUDS TO TOP PLATE & (2) SDWC15600 FROM JACK STUD TO HEADER.
D	1/2"X10" J-BOLT W/ 2"x2"x1/8" WASHER @ 32" O.C. PLUS (2) WITHIN 6" EACH SIDE OF JACK STUDS @ HEADER

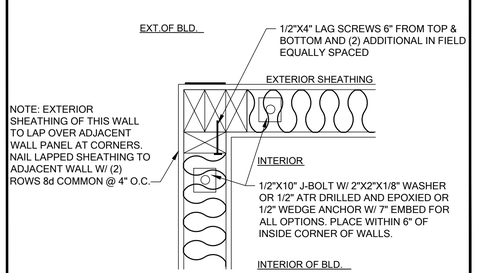
WINDOW & DOOR JACK TABLE
PROVIDE JACKS @ EACH END AS FOLLOWS
(2) WHEN OPN'GS ARE GREATER THEN 4'-0"
(3) WHEN OPN'GS ARE GREATER THEN 10'-0" BUT LESS THAN 16'-0"

NOTE:
FOR EXTERIOR OR SHEAR WALL SEE SHEET S1 FOR WALL & ROOF SHEATHING INSTALLATION & NAILING SCHEDULES

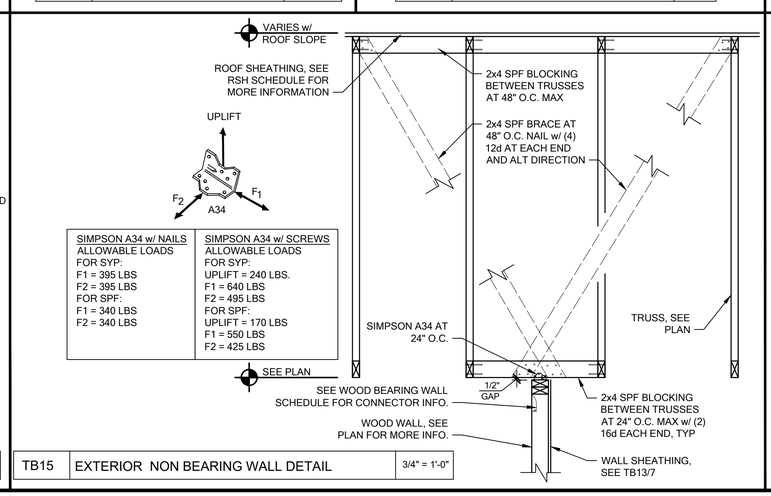
WF66	TYPICAL BEARING WALL	N.T.S.



WC09	WALL STEP @ CORNER	3/4" = 1'-0"

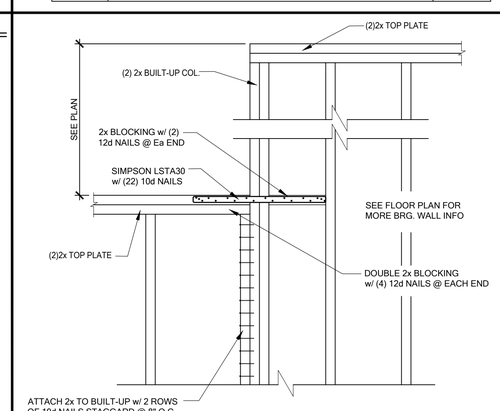


WC06	EXTERIOR FRAME CORNER w/ PANELS	3/4" = 1'-0"



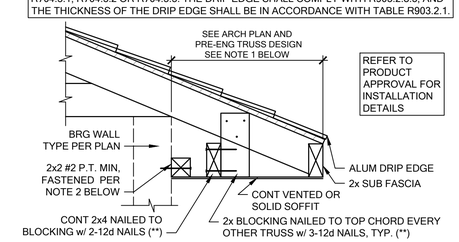
SIMPSON A34 w/ NAILS ALLOWABLE LOADS	SIMPSON A34 w/ SCREWS ALLOWABLE LOADS
FOR SYP:	FOR SYP:
F1 = 395 LBS	UPLIFT = 240 LBS.
F2 = 395 LBS	F1 = 640 LBS
FOR SPF:	F2 = 495 LBS
F1 = 340 LBS	FOR SPF:
F2 = 340 LBS	UPLIFT = 170 LBS
	F1 = 550 LBS
	F2 = 425 LBS

TB15	EXTERIOR NON BEARING WALL DETAIL	3/4" = 1'-0"



WC07	WALL STEP @ BRG FRAME WALL SOFFIT	3/4" = 1'-0"

R704.3 ALUMINUM FASCIA.ALUMINUM FASCIA SHALL HAVE A MINIMUM THICKNESS OF 0.019 INCHES AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THIS CODE. FASTENERS SHALL BE ALUMINUM OR STAINLESS STEEL. ALUMINUM FASCIA SHALL BE ATTACHED IN ACCORDANCE WITH SECTION R704.3.1, R704.3.2 OR R704.3.3. THE DRIP EDGE SHALL COMPLY WITH R905.2.8.5, AND THE THICKNESS OF THE DRIP EDGE SHALL BE IN ACCORDANCE WITH TABLE R903.2.1.



(**) FOR ALUMINUM SOFFITS >1'-4" BLOCKING REQUIRED, FOR SOFFITS <1'-4" MID BLK'G NOT REQUIRED. VINYL SOFFITS >1'-0" SHALL HAVE MID BLOCKING PER R704.2.1

1. G.C / BUILDER TO VERIFY/PROVIDE SOFFIT MATERIAL SPAN CAPACITIES BASED ON THE DESIGN PRESSURES SPECIFIED FOR COMPONENTS AND CLADDING LISTED IN THE DESIGN CRITERIA ON **SHEET S0**.
2. 2x2 #2 MIN. P.T. w/ J-CHANNEL SECURED @ 24" O.C. FASTEN TO:
   - CMU w/ 3/16" x 3" TITEN @ 16" O.C. (ALT. PAF 0.145/0.157 & 0.300 WASHER w/ MIN. 1" EMBEDMENT @ 16" O.C.)
   - WOOD w/ 0.148"x 3 ½" @ 16" O.C.
3. [F] CHANNEL APPLICATION: 2X2 NOT REQUIRED SEE (PA) INSTALLATION GUIDE

SF01	STRUCTURAL SOFFIT	3/4" = 1'-0"

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100% Employee Owned
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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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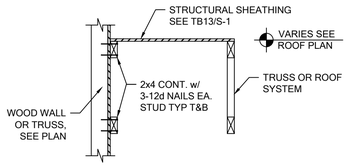
office: (407) 648-4567
habitatorlandoosceola.org

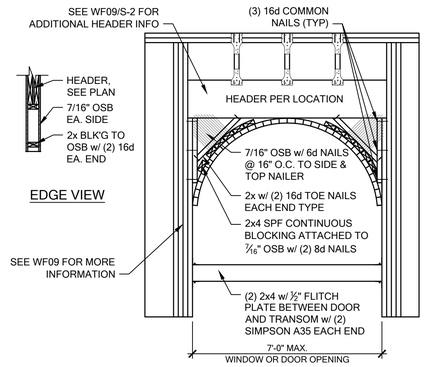
LOT: BLK: UNIT:
Community:
Plan Name: 1400 Mercy Drive
Project Address: 1234 South Road City Florida 123456
Client No: Client No.
Elev: Garage: Version: 0.0

Project No: 25-09339
Sheet No: S-2

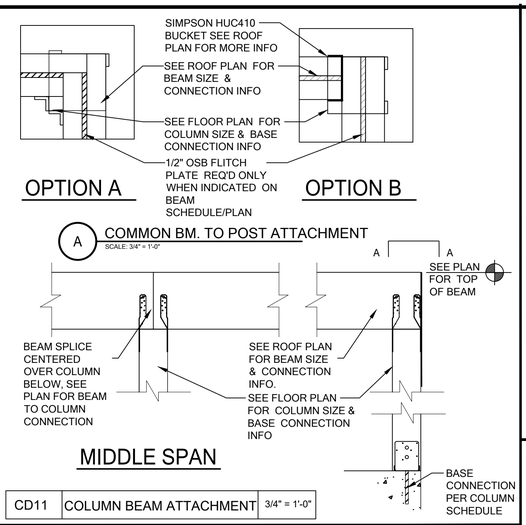
Saved BY: EINKSTO.SOTO Date: 7/10/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing Files\25-09339 Mercy Drive Model.dwg



LD02	EXTERIOR WALL SHEAR TRANSFER	3/4" = 1'-0"

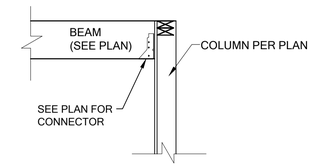


WF39	DETAIL AT ARCH WINDOW FRAMING	3/4" = 1'-0"

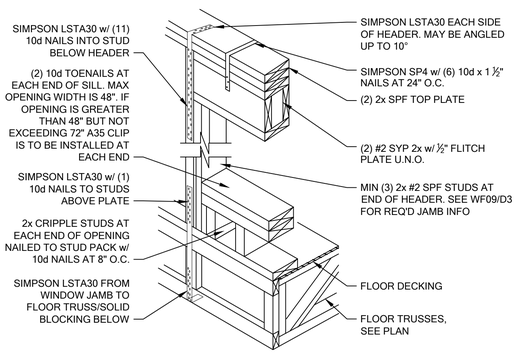


CD11	COLUMN BEAM ATTACHMENT	3/4" = 1'-0"

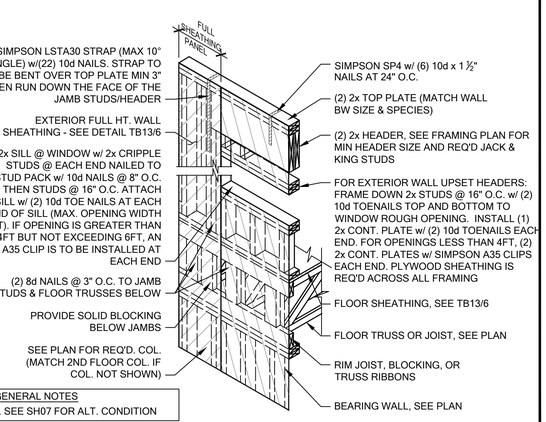
NOTE: ALL EXT. CONDITIONS ATTACH 2x STUDS TO TOP PLATE w/(4) 16d NAILS (2) ON EA. SIDE TYP. TOE NAILS MAY BE SUBSTITUTED w/(1) SIMPSON H2.5A CONNECTOR @ EA. STUD TO TOP PLATE w/ 8d 2 1/2" x 0.131" NAILS



CD25	BEAM TO WALL CONNECTION	3/4" = 1'-0"

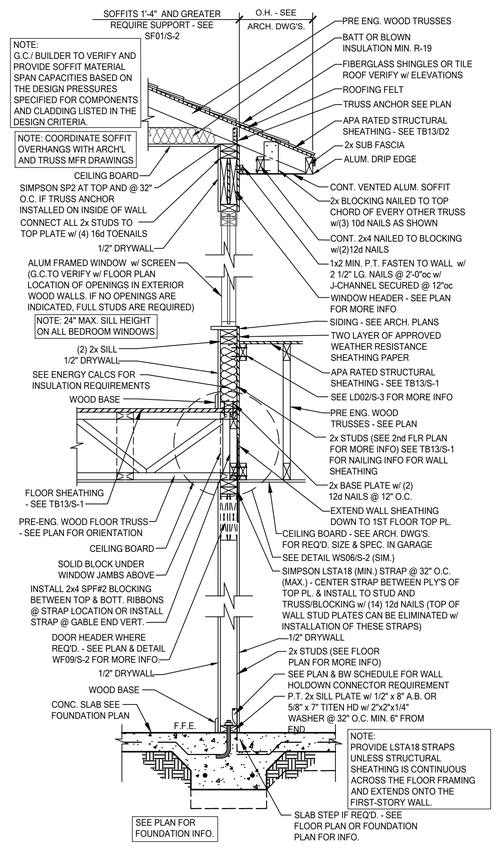


SH06	HEADER CONNECTION @ 2ND FLOOR	3/4" = 1'-0"

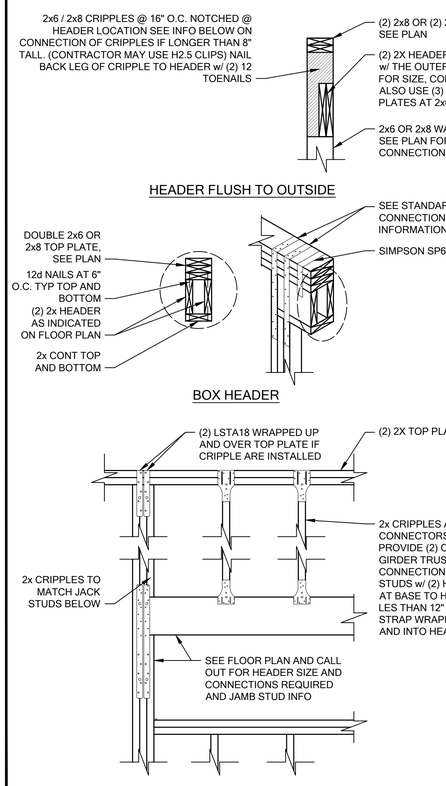


GENERAL NOTES
1. SEE SH07 FOR ALT. CONDITION

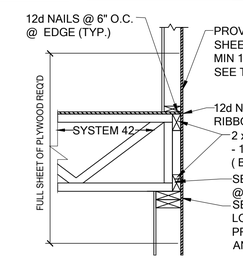
SH00	HEADER CONNECTION @ 2ND FLOOR	3/4" = 1'-0"



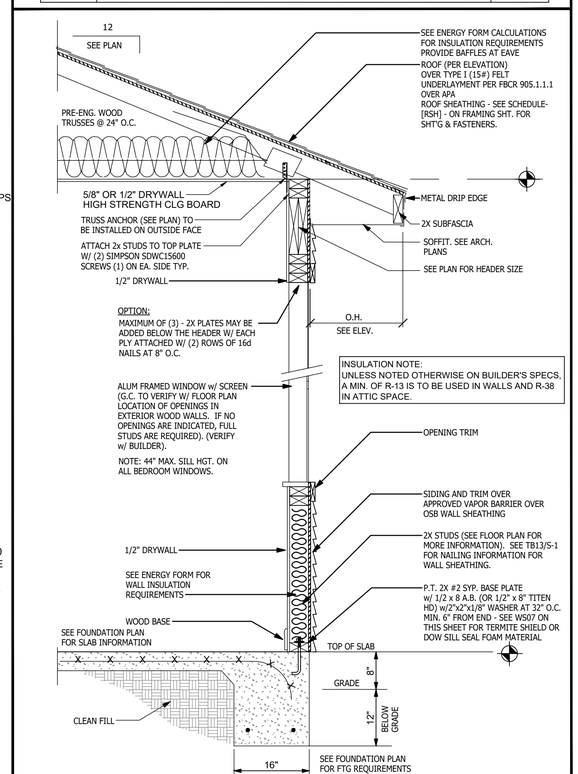
WS25	2-STORY FRAME WALL SECTION	3/4" = 1'-0"



SH07	ALTERNATE HEADER CONDITIONS	3/4" = 1'-0"



WS06	FLOOR ATTACHMENT DETAIL	3/4" = 1'-0"



WS02	TYPICAL WALL SECTION EXTERIOR FRAME	3/4" = 1'-0"

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ABD ATA fhba GOBA

MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

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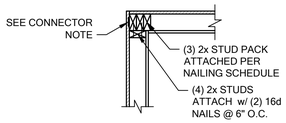
LOT: BLK: UNIT:
Community: Elev: Garage:
Plan Name: 1400 Mercy Drive
Project Address: 1234 South Road City Florida 123456
Client No.: Client No.
Version: 0.0

Project No: 25-09339
Sheet No: S-3

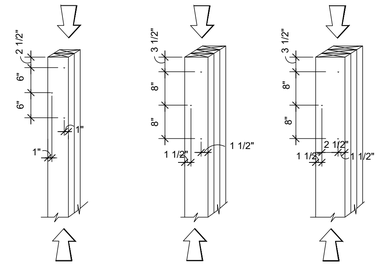
Saved By: ERNESTO.SOTO Date: 7/16/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing Files\25-09339 Mercy Drive Model.dwg

CONNECTOR NOTE:
IF WOOD WALL OR BEAM BELOW CONTRACTOR TO INSTALL SIMPSON MSTC40 w/ (36) 16d SINKERS. IF FLOOR SYSTEM IS 18" TO 26" DEEP USE MSTC66 w/ (60) 16d SINKERS FOR WOOD/BEAM OR MSTCM60 w/ (22) 16d SINKERS AND (14) ¼" x 2 ½" TITENS TO MASONRY

SIMPSON MSTA36 w/ (7) 10d NAILS AND (4) ¼" x 2 ½" TITENS (IF SCREWS ARE NOT IN LINTEL COURSE OR INTO FILLED CELL USE ¼" X 1 ¾" TITENS, MAX (2) SCREWS) IF FLOOR TRUSSES ARE 20" TO 26" DEEP CONTRACTOR TO USE SIMPSON MSTCM60 STRAP w/ (20) 16d SINKERS & (14) ¼" X 2 ½" TAPCONS INSTEAD OF MSTAM36 STRAP. (IF SCREWS ARE NOT IN LINTEL COURSE OR INTO FILLED CELL USE ¼" x 1 ¾" TITENS)



STANDARD CORNER A-A



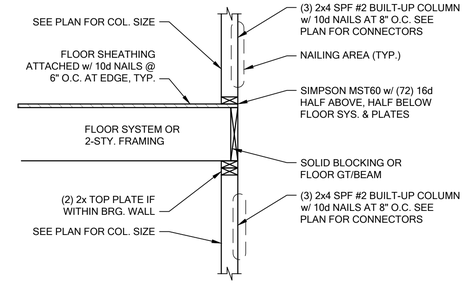
(2) 2 x 4 LAMINATIONS W/(1) ROW OF STAGGERED 10d COMMON WIRE NAILS (D = 0.148", L= 3") OR EQUAL

(3) 2 x 4 LAMINATIONS W/ (2) ROWS OF STAGGERED 16d COMMON WIRE NAILS (ONE INTO EACH OUTSIDE FACE) (D = 0.162", L= 3-1/2") OR EQUAL

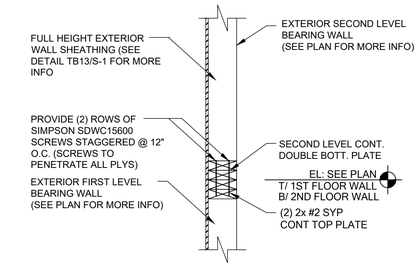
(3) 2 x 6 LAMINATIONS W/ (2) ROWS OF STAGGERED 16d COMMON WIRE NAILS (ONE INTO EACH OUTSIDE FACE) (D = 0.162", L= 3-1/2") OR EQUAL

NOTES:
1.) ADJACENT NAILS ARE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN.
2) ALL NAILS PENETRATE AT LEAST 3/4" OF THE THICKNESS OF THE LAST LAMINATION.
3) FOR 4-PLY, PROVIDE 1/4"DIA. x 5 1/2" LAG SCREWS OR EQUAL (SPACE AS SHOWN FOR 3-PLY)
4) REFER TO NDS SECTION 15.3 FOR ADDITIONAL INFO.

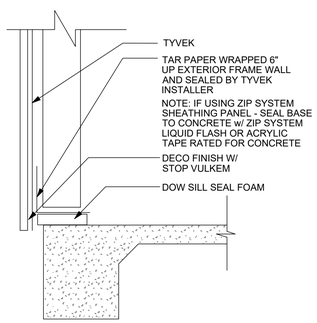
WF37	TYPICAL COLUMNS DETAILS	N.T.S.



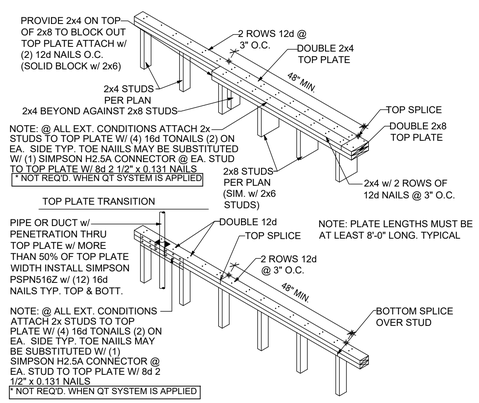
SG07	2 STORY COLUMN @ GIRDER	N.T.S.



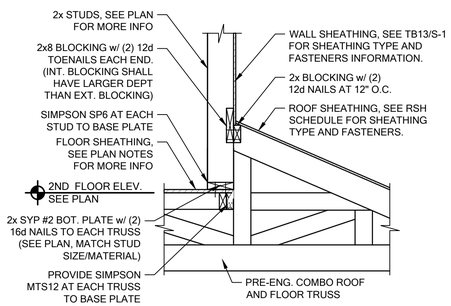
WF03	WALL SPLICE DETAILS	3/4" = 1'-0"



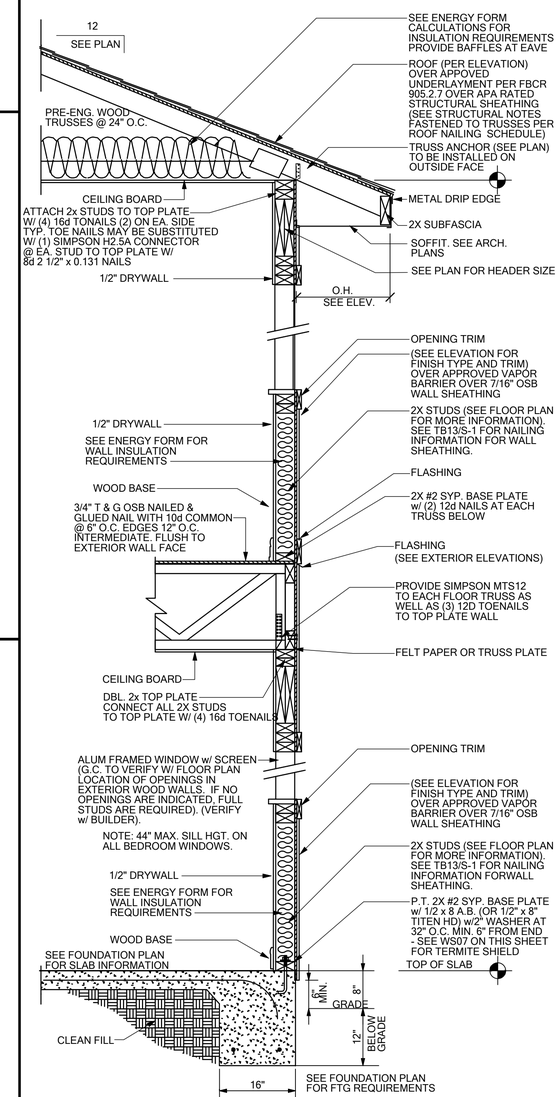
WS07	EXT. FRAME WALL TERMITE DETAIL	3/4" = 1'-0"



WF17	TOP PLATE SPLICE DETAIL	3/4" = 1'-0"

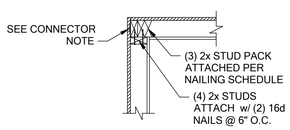


CT04	SECTION @ COMBINATION TRUSS	3/4" = 1'-0"

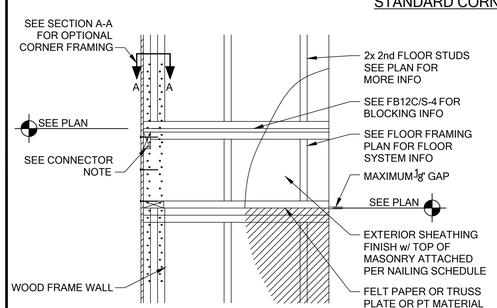


WF04	TYPICAL WALL SECTION EXTERIOR FRAME	3/4" = 1'-0"

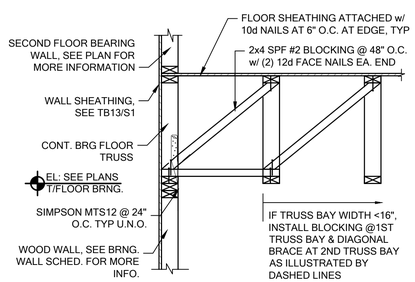
CONNECTOR NOTE:
IF WOOD WALL OR BEAM BELOW CONTRACTOR TO INSTALL SIMPSON (2) SIMPSON CS18 w/ (22) 10d NAILS EXTENDED MIN 12" INTO STUDS ABOVE AND BELOW OR (1) SIMPSON MSTC40 w/ (36) 16d SINKERS.



STANDARD CORNER A-A

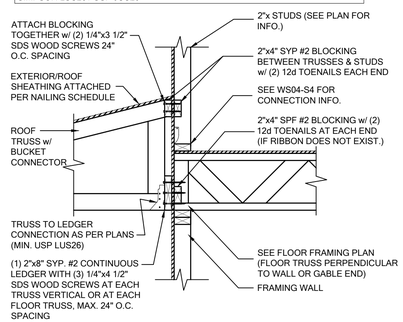


FB06	SECTION @ CORNER FRAMING	3/4" = 1'-0"



FB12C	BLOCKING DETAIL	3/4" = 1'-0"

CROSS REFERENCE CHART
SIMPSON 1/4"x3 1/2" SDS WOOD SCREWS / USP 1/4"x3 1/2" WS35 WOOD SCREWS
SIMPSON 1/4"x4 1/2" SDS WOOD SCREWS / USP 1/4"x4 1/2" WS45 WOOD SCREWS
SIMPSON LUS26 / USP JUS26



LD06C	LEDGER SECTION	3/4" = 1'-0"

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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code - Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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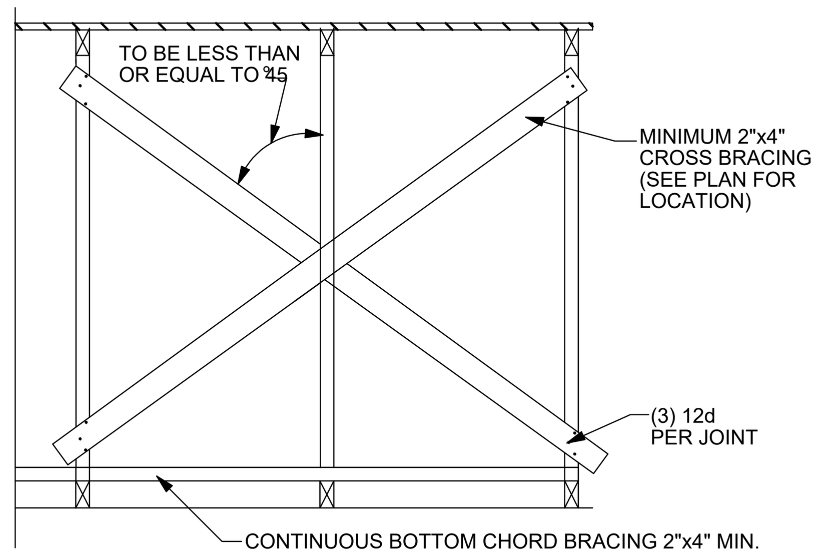
habitatorlandoosceola.org

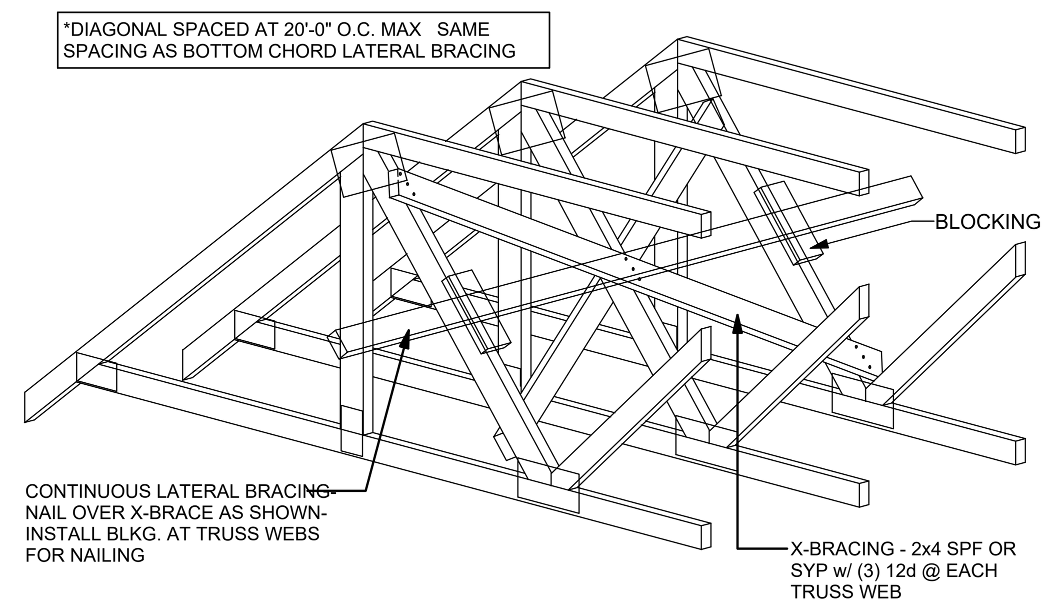
LOT: BLK: UNIT:
Community:
Plan Name: 1400 Mercy Drive
Project Address: 1234 South Road City Florida 123456
Client No: Client No.
Elev: Garage: Version: 0.0

Project No: 25-09339
Sheet No: S-4

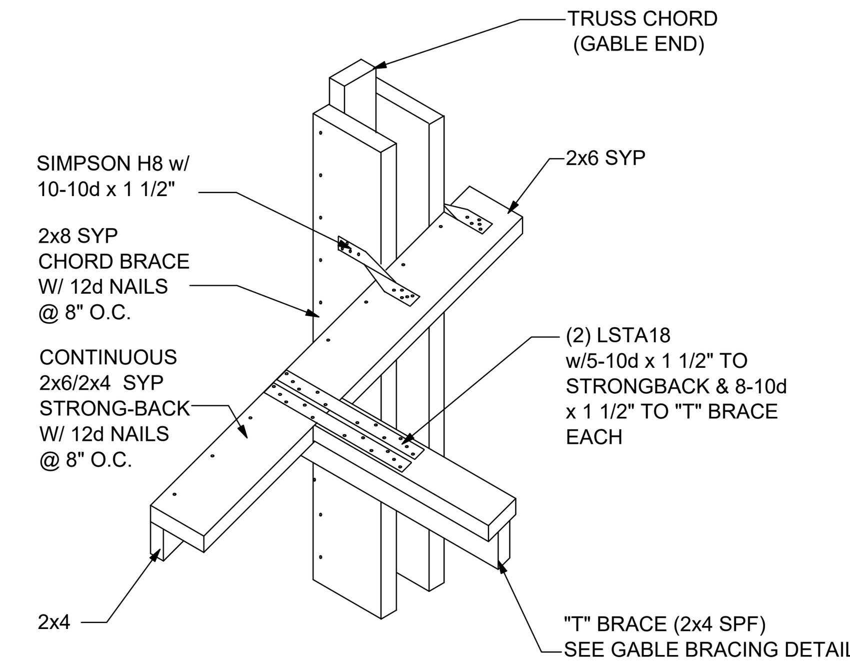
Saved BY: ERNESTO.SOTO Date: 7/10/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing Files\25-09339 Mercy Drive Model.dwg



TB01	TYPICAL CROSS BRACING DETAIL	N.T.S.

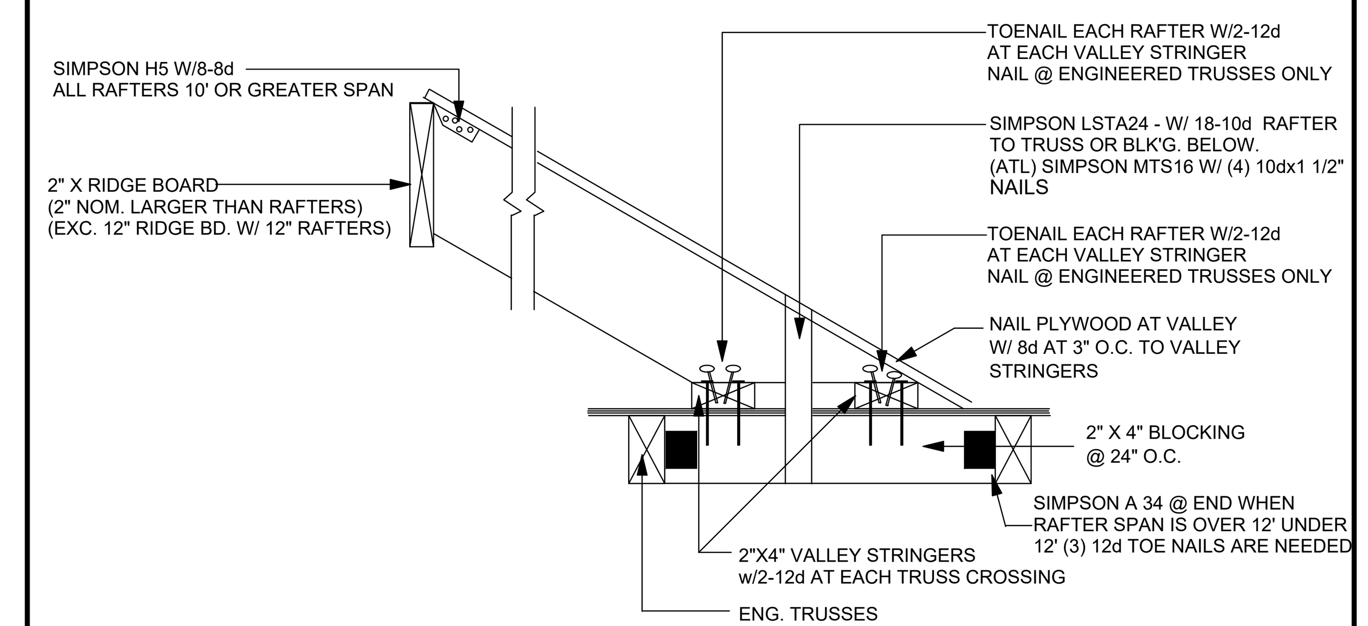


TB02	TYPICAL CROSS BRACING DETAIL	N.T.S.

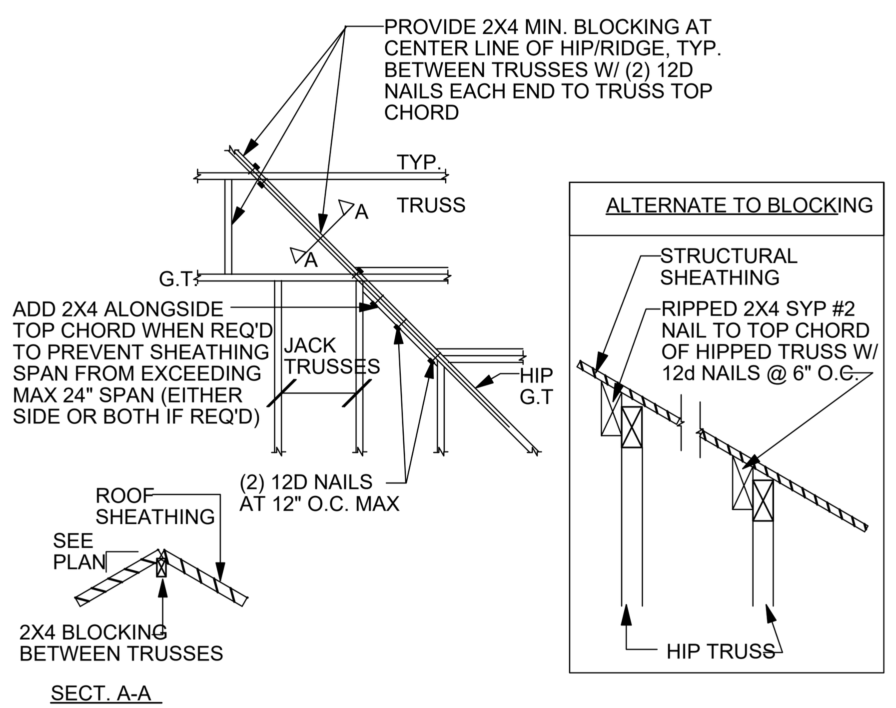


GE04	"T" BRACE CONNECTION @ GABLE END W/ VOLUME CEILING	3/4" = 1'-0"

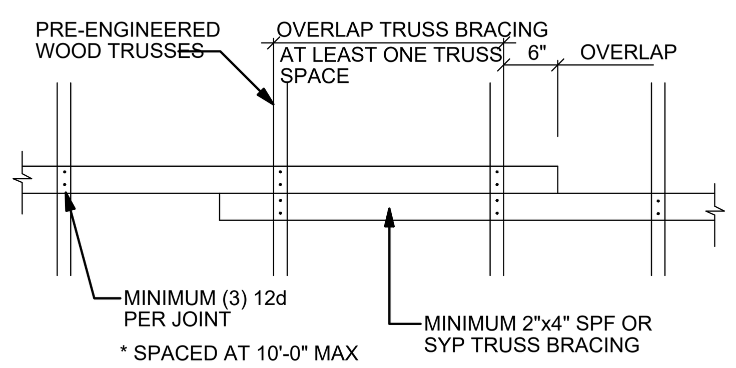
RAFTER SIZE	
0'-8' SPAN -	2"X6" W/4-12d EACH END
8'-12' SPAN -	2"X8" W/4-12d EACH END
12'-15' SPAN -	2"X10" W/ SIMPSON A 34 @ EA. END
15'-18' SPAN -	2"X12" W/SIMPSON A 34 @ EA. END



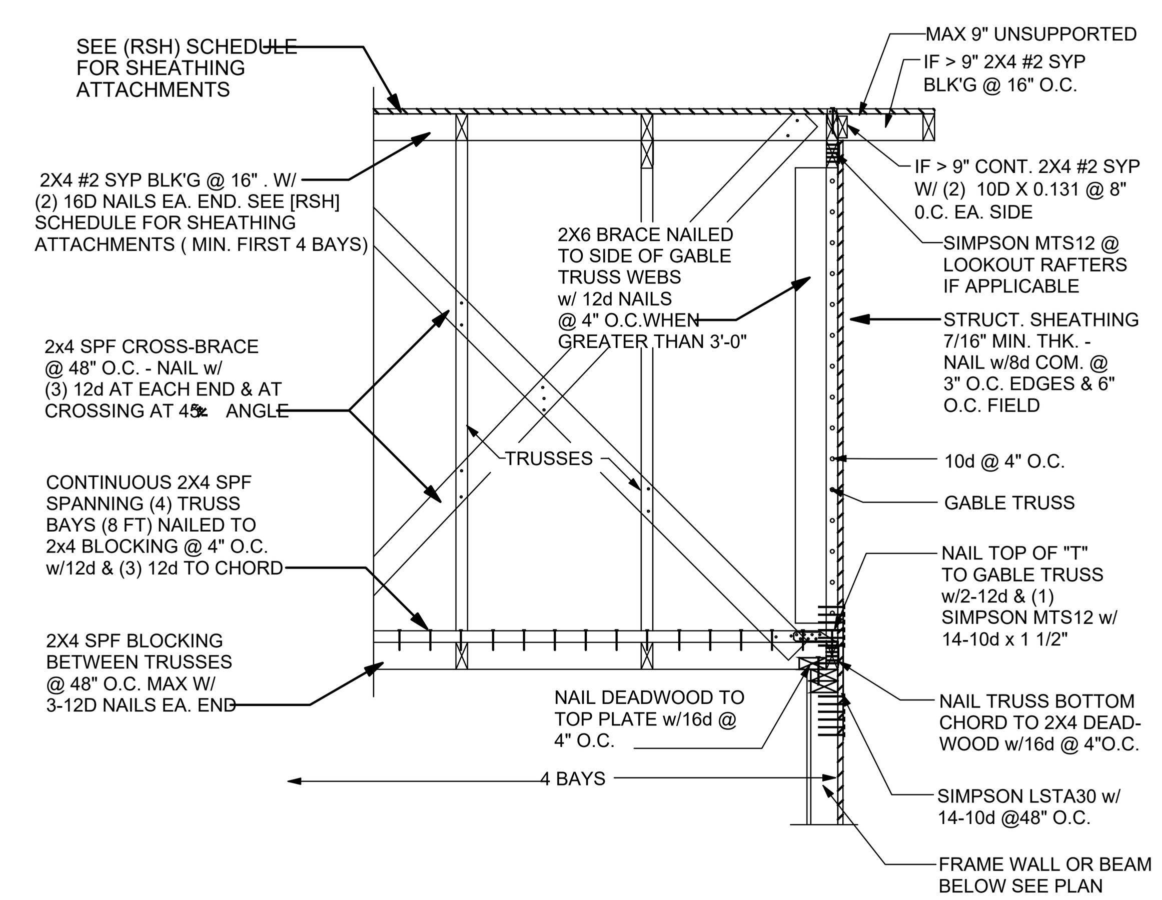
TB17	CONV. FRAMING & VALLEY FRAMING	N.T.S.



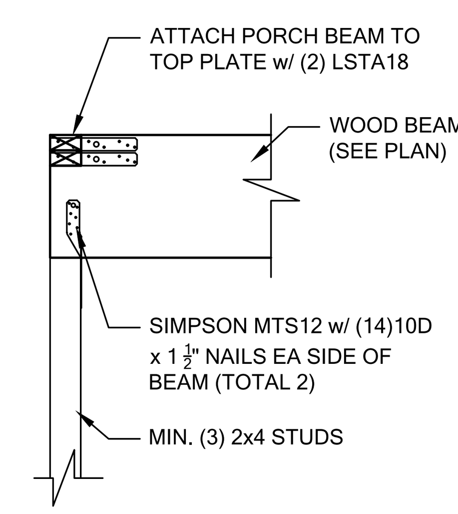
TB03	HIP / RIDGE BLOCKING DETAIL	N.T.S.



TB04	TRUSS BRACING OVERLAP DETAIL (TYP)	N.T.S.



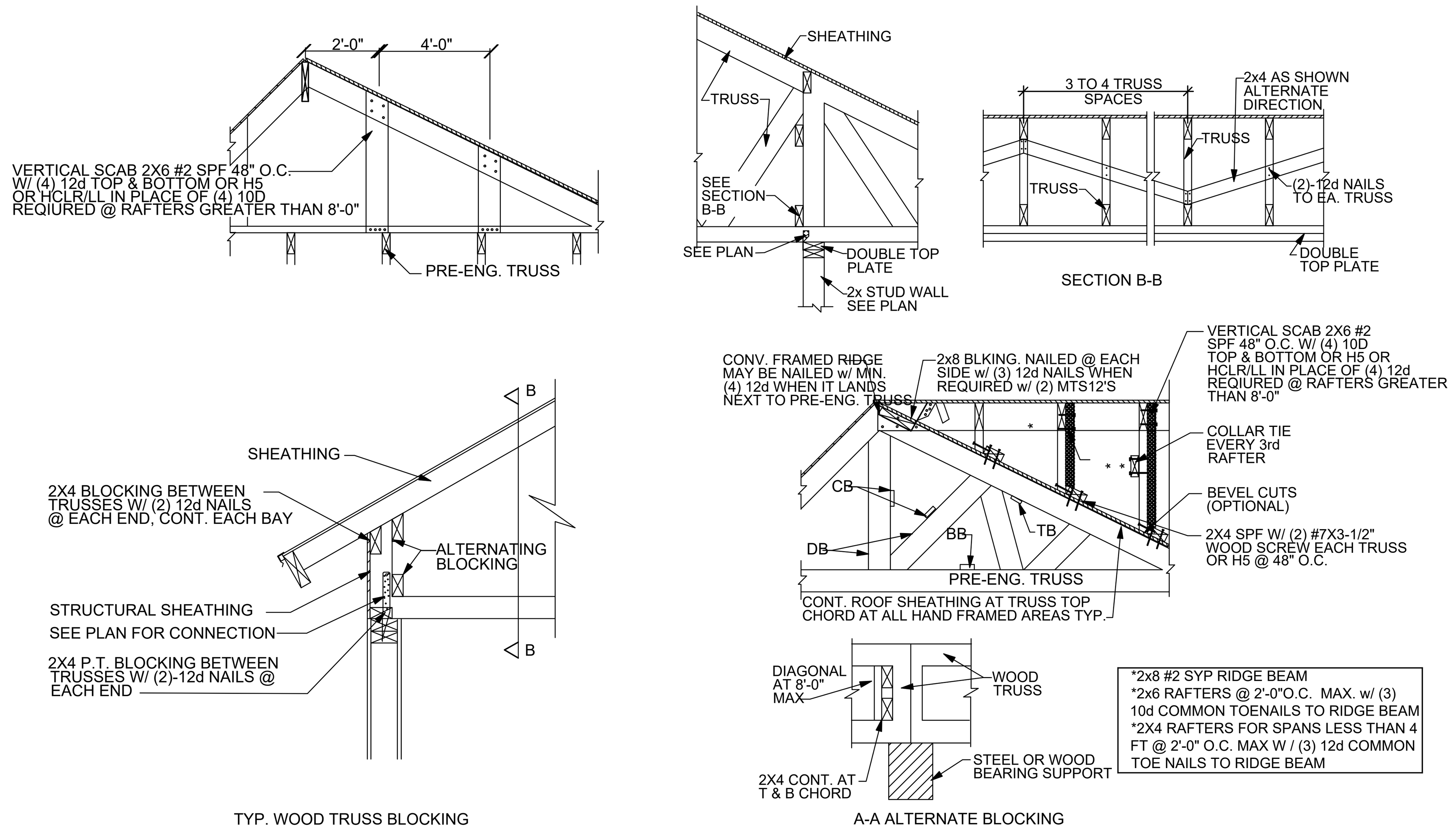
GE05	GABLE END BRACING - FRAME WALL	N.T.S.



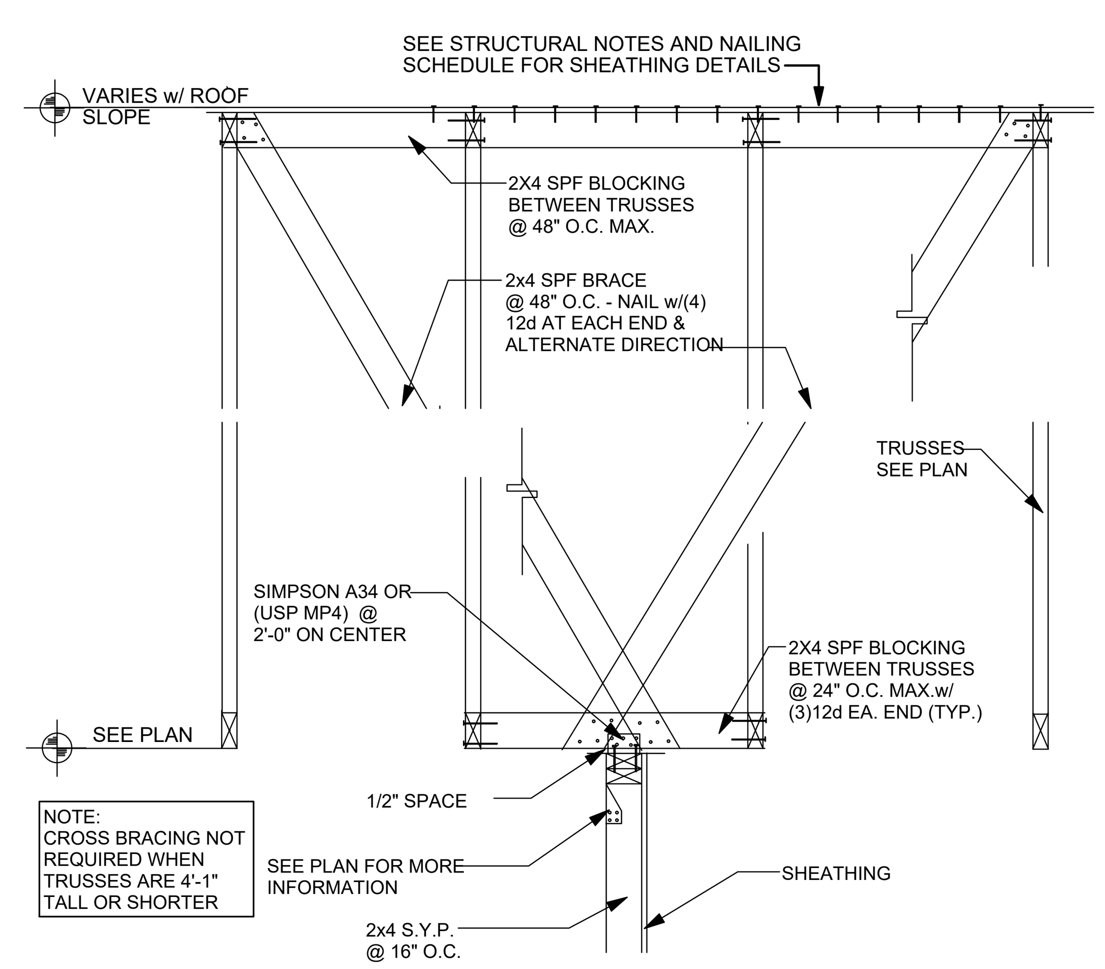
CD30	COLUMN TO BEAM DETAIL	3/4" = 1'-0"

TRUSS NOTES:

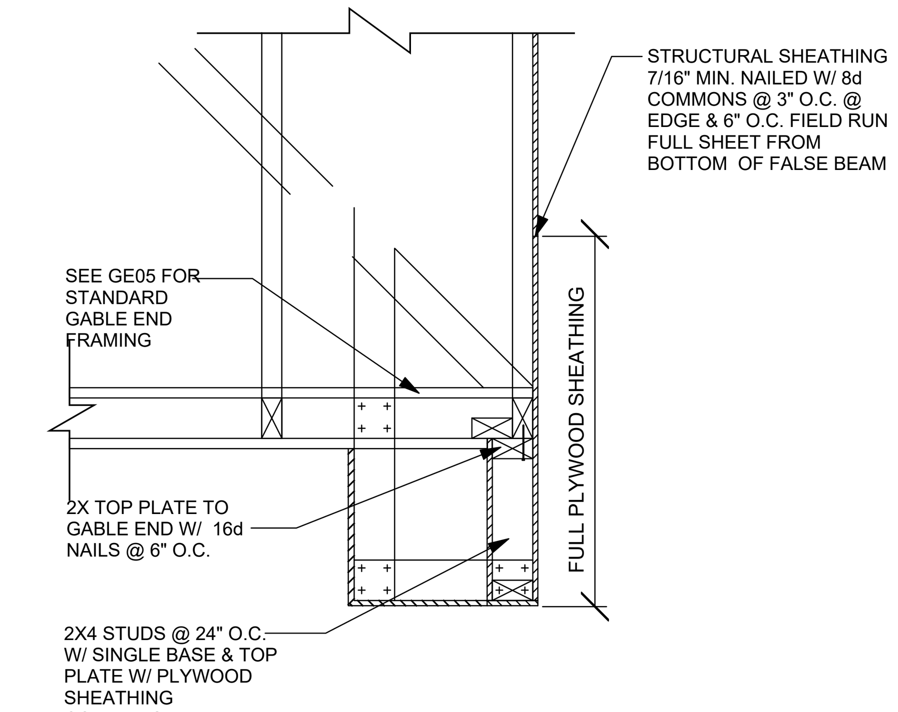
1. WOOD TRUSS ERECTOR SHALL PROVIDE BRACING ACCORDING TO ANSI/TP1-2014 (TRUSS PLATE INSTITUTE) NOTE THAT THE COMBINED WIND AREA IS GREATER BEFORE THE ROOF SHEATHING IS APPLIED, AND BRACING SHALL THEREFORE BE INSTALLED AS THE TRUSSES ARE ERECTED. INADEQUATE BRACING IS THE MOST COMMON CAUSE OF ACCIDENT IN WOOD TRUSS CONSTRUCTION. FULL BUNDLES OF SHEATHING SHALL NOT BE PLACED ON TRUSSES. THIS CONSTRUCTION LOAD SHOULD BE LIMITED TO 8 SHEETS OF SHEATHING ON ANY PAIR OF TRUSSES & SHALL BE LOCATED ADJACENT TO THE SUPPORTS. NO EXCESS CONCENTRATION OF ANY CONSTRUCTION MATERIAL (SUCH AS GRAVEL OR SHINGLES) SHALL BE PLACED ON THE TRUSSES IN ANY ONE AREA THEY SHALL BE SPREAD OUT EVENLY OVER A LARGE AREA SO AS TO AVOID OVERLOADING ANY ONE TRUSS.
2. ALL BRACING (DB,CB,BB) SHOWN ABOVE SHALL BE IN ADDITION TO CONTINUOUS LATERAL BRACING SPECIFIED BY THE TRUSS MANUFACTURER ALL LATERAL BRACING SPECIFIED BY TRUSS MANUF. SHALL HAVE ADDITIONAL DIAGONAL BRACES AT 20'-0" O.C. MAXIMUM.
3. ALL BRACES SHALL BE 2X4 NOMINAL DIMENSION LUMBER & SHALL BE ATTACHED W/ (3) 12d NAILS AT EACH TRUSS INTERSECTION.
4. ADDITIONAL BOTTOM CHORD BRACING SHALL BE INSTALLED AS REQUIRED BY TRUSS DESIGN WHEREVER ADEQUATE STRUCTURAL CEILING ARE NOT ATTACHED DIRECTLY TO THE BOTTOM CHORD OF THE TRUSS.
5. PROVIDE TRUSS BLOCKING AT ALL TRUSS BEARING SUPPORTS WHERE TRUSS DEPTH EXCEEDS STANDARD HEEL HEIGHT. SEE TYP. TRUSS BLOCKING DETAILS



TB06	BLOCKING AND CONVENTIONAL FRAME DETAILS	3/4" = 1'-0"



TB15	EXTERIOR NON-BEARING WALL DETAIL	N.T.S.



GE15	FALSE BEAM @ GABLE END	1/2" = 1'-0"

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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

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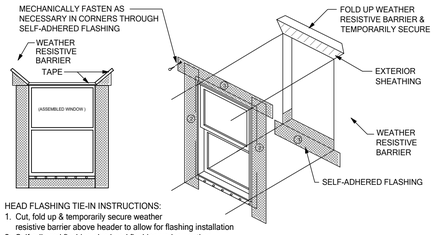
BLK:
UNIT:
Community:
Plan Name: 1400 Mercy Drive
Elev:
Garage:
Project Address: 1234 South Road City Florida 123456
Version: 0.0
Client No.: Client No.

Project No: 25-09339
Sheet No: S-5

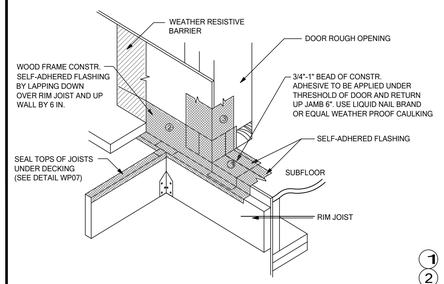
Saved BY: ERNESTO SOTO Date: 7/10/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing files\25-09339_Mercy_Drive_Model.dwg



HEAD FLASHING TIE-IN INSTRUCTIONS:
1. Cut, fold up & temporarily secure weather resistive barrier above header to allow for flashing installation
2. Self-adhered flashing plus head flashing under weather resistive barrier
3. Fold weather resistive barrier back over head flashing and seal with tape

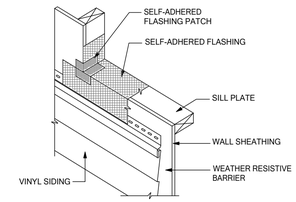
1 2

SELF-ADHERED FLASHING FLANGED WINDOW FLASHING INSTALLATION AFTER WEATHER RESISTIVE BARRIER — WP01



1 2

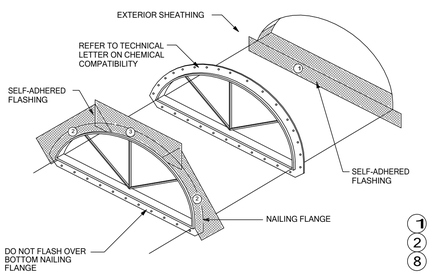
SELF-ADHERED FLASHING EXTERIOR DOOR WITH DECK - SECTION A — WP02



NOTES:
1. INSTALL WEATHER RESISTIVE BARRIER TO FORM WATER-SHEDDING LAPS.
2. FOR SILL PAN DEPTHS GREATER THAN 6 INCHES, A SLOPED SILL IS REQUIRED IN ACCORDANCE WITH ASTM E 2112
3. A BACK DAM CAN BE ACCOMPLISHED USING A WOODEN FURRING STRIP OR BY FOLDING THE ADHESIVE LAYER ONTO ITSELF.
4. EXTEND SELF-ADHERED FLASHING OVER NAILING FLANGE OF THE LAST COMPLETE COURSE OF SIDING PANEL AND TRIM TO PROTECT FROM PERMANENT EXPOSURE TO UV.

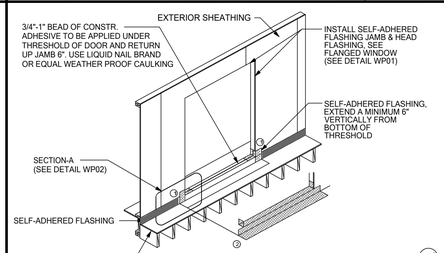
1 2

TIE-IN WITH VINYL SIDING AT WINDOW SILL — WP03



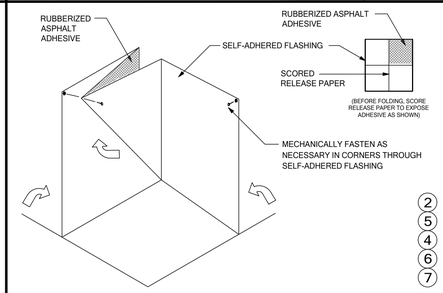
1 2 8

SELF-ADHERED FLASHING HALF ROUND WINDOW — WP04



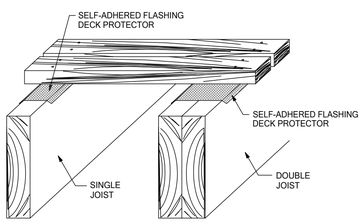
1 2

SELF-ADHERED FLASHING EXTERIOR DOOR WITH DECK — WP05



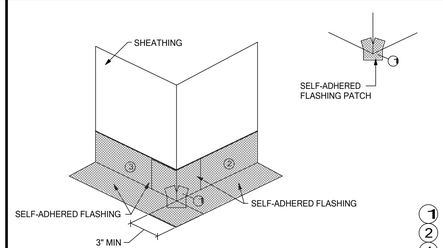
2 5 4 6 7

SELF-ADHERED FLASHING INSIDE CORNER — WP06



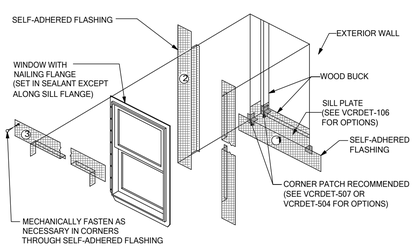
2

SELF-ADHERED FLASHING AT DECK JOIST — WP07



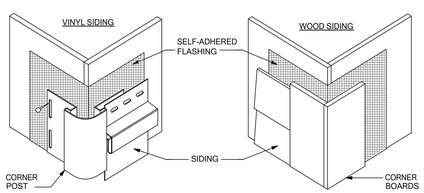
1 2 4 5

SELF-ADHERED FLASHING OUTSIDE CORNER — WP08



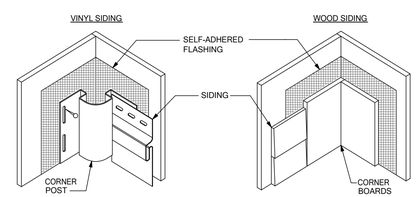
NOTES:
1. INSTALL WINDOW PER MANUFACTURER'S RECOMMENDATION AND USE APPROPRIATE SEALANT FOR WINDOW AND WOOD BUCK
2. WEATHER RESISTIVE BARRIER TO FORM WATER-SHEDDING LAPS.

RECESSED WINDOW — WP10



NOTES:
1. EXTEND SELF-ADHERED FLASHING BEYOND JOINT BETWEEN SIDING AND CORNER POST/BOARDS.
2. INSTALL SELF-ADHERED FLASHING ON OUTSIDE CORNER FOR THE HEIGHT OF THE WALL.

WALL-TO-WALL OUTSIDE CORNER — WP11



NOTES:
1. EXTEND SELF-ADHERED FLASHING BEYOND JOINT BETWEEN SIDING AND CORNER POST/BOARDS.
2. INSTALL SELF-ADHERED FLASHING ON OUTSIDE CORNER FOR THE HEIGHT OF THE WALL.

WALL-TO-WALL INSIDE CORNER — WP12

THESE DETAILS ARE GENERIC AND MEANT TO SHOW GENERAL FLASHING AND WATERPROOFING METHODS TO BE USED.

SELF-ADHERED FLASHING PRODUCTS DETAILS

WATER RESISTIVE BARRIERS ARE REQUIRED BEHIND STUCCO. PER FBCR (CURRENT EDITION)

DETAIL INSTRUCTIONS

REFER TO THE NUMBER MARKED AS (#) IN EACH DETAIL THAT CORRESPONDS TO THE NUMBERED ITEMS IN THE LIST OF INSTRUCTIONS BELOW:
1. INSTALL SELF-ADHERED FLASHING IN ORDER AS SHOWN BY NUMBERS.
2. INSTALL FLASHING AND WEATHER RESISTIVE BARRIER TO FORM WATER SHEDDING LAPS.
3. SELF-ADHERED FLASHING CAN BE SUBSTITUTED FOR BUILDING PAPER.
4. SPLIT THE RELEASE PAPER USING THE RIPCORD (SPLIT RELEASE ON DEMAND, EMBEDDED IN THE ADHESIVE LAYER) - FOR EASE OF INSTALLATION AND TO MINIMIZE SCORING CUTS.
5. REMOVE ALL RELEASE PAPER PER STANDARD INSTALLATION INSTRUCTIONS AND ADHERE TO SUBSTRATE USING A SQUARE PIECE. OF FLASHING MATERIAL (6" X 6" MINIMUM).
6. FOLD AS SHOWN BY ARROWS.
7. ANGLE OF CORNER MAY VARY, ADJUST FOLDING OF THE FLASHING ACCORDINGLY TO FIT TIGHT TO CORNER.
8. MECHANICALLY FASTEN AS NECESSARY.

FLASHING REQUIREMENTS

R703.1 General. Exterior walls shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing as described in Section R703.4.

R703.1.1 Water resistance. The exterior wall envelope shall be designed and constructed in a manner that prevents the accumulation of water within the wall assembly by providing a water-resistant barrier behind the exterior cladding as required by Section R703.2 and a means of draining to the exterior water that penetrates the exterior cladding.

R703.2 Water-resistive barrier. Not fewer than one layer of water-resistive barrier shall be applied over studs or sheathing of all exterior walls with flashing as indicated in Section R703.4, in such a manner as to provide a continuous water-resistive barrier behind the exterior wall veneer. The water-resistive barrier material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1. Water-resistive barrier materials shall comply with one of the following:
1. No. 15 felt complying with ASTM D226, Type 1.
2. ASTM E2568, Type 1 or 2.
3. ASTM E331 in accordance with Section R703.11.
4. Other approved materials in accordance with the manufacturer's installation instructions.
   No. 15 asphalt felt and water-resistive barriers complying with ASTM E2556 shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches (51mm), and where joints occur, shall be lapped not less than 6 inches (152 mm).

R703.7.3 Water-resistive barriers Water-resistive barriers shall be installed as required in Section R703.2 and, where applied over wood-based sheathing, shall include a water-resistive vapor-permeable barrier with a performance at least equivalent to two layers of Grade D paper. The individual layers shall be installed independently such that each layer provides a separate continuous plane and any flashing (installed in accordance with Section R703.4) intended to drain to the water-resistive barrier is directed between the layers.

Exception: Where the water-resistive barrier that is applied over wood-based sheathing has a water resistance equal to or greater than that of 60-minute Grade D paper and is separated from the stucco by an intervening, substantially nonwater-absorbing layer or designed drainage space.

R703.4 Flashing. Approved metal flashing, vinyl flashing, self-adhered membranes and mechanically attached flexible flashing shall be applied shingle-fashion or in accordance with the manufacturer's instructions. Metal flashing shall be corrosion resistant. Fluid-applied membranes used as flashing shall be applied in accordance with the manufacturer's instructions. All flashing shall be applied in a manner to prevent the entry of water into the wall cavity or penetration of water to the building structural framing components. Self-adhered membranes used as flashing shall comply with AAMA 711. All exterior fenestration products shall be sealed at the juncture with the building wall with a sealant complying with AAMA 800 or ASTM C920 Class 25 Grade NS or greater for proper joint expansion and contraction. ASTMC1281, AAMA 812, or other approved standard as appropriate for the type of sealant. Fluid-applied membranes used as flashing in exterior walls shall comply with AAMA 714. The flashing shall extend to the surface of the exterior wall finish. Approved flashings shall be installed at the following locations:
1. Exterior window and door openings. Flashing at exterior window and door openings shall extend to the surface of the exterior wall finish or to the water-resistive barrier complying with Section 703.2 for subsequent drainage. Mechanically attached flexible flashings shall comply with AAMA 712. Flashing at exterior window and door openings shall be installed in accordance with one or more of the following:
   1.1 The fenestration manufacturer's installation and flashing instructions, or for applications not addressed in the fenestration manufacturer's instructions, in accordance with the flashing or water-resistive barrier manufacturer's instructions. Where flashing instructions or details are not provided, pan flashing shall be installed at the sill of exterior window and door openings. Pan flashing shall be sealed or sloped in such a manner as to direct water to the surface of the exterior wall finish or to the water resistive barrier for subsequent drainage. Openings using pan flashing shall incorporate flashing or protection at the head and sides.
   1.2 In accordance with the flashing design or method of a registered design professional.
   1.3 In accordance with other approved methods.
   1.4 In accordance with FMA/AAMA 100, FMA/ AAMA 200, FMA/WDMA 250, FMA/AAMA/ WDMA 300 or FMA/AAMA/WDMA 400 or FMA/AAMA/WDMA 2710.
2. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.
3. Under and at the ends of masonry, wood or metal copings and sills.
4. Continuously above all projecting wood trim.
5. Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
6. At wall and roof intersections.
7. At built-in gutters.

THESE DETAILS ARE GENERIC AND MEANT TO SHOW GENERAL FLASHING AND WATERPROOFING METHODS TO BE USED.

FIGURE 1: FLASHING INSTALLATION

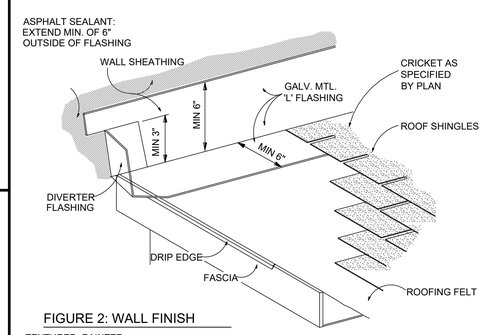
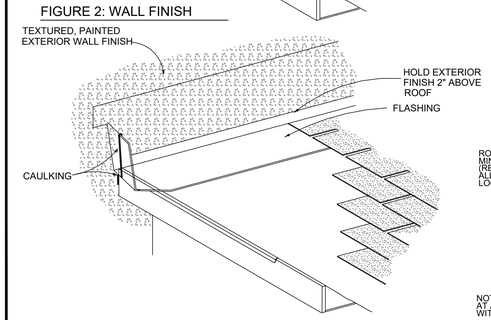


FIGURE 2: WALL FINISH



FLASHING INSTALLATION

WHERE ROOF MEETS VERTICAL WALL

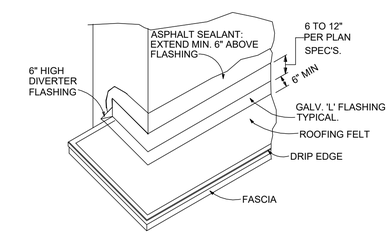
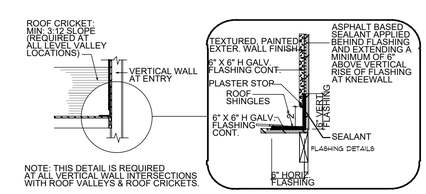


FIGURE 3: CORNER DETAIL



NOTE: THIS DETAIL IS REQUIRED AT ALL VERTICAL WALL INTERSECTIONS WITH ROOF VALLEYS & ROOF CRICKETS.

FLASHING DETAIL AT CRICKET / KNEEWALL INTERSECTION

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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code – Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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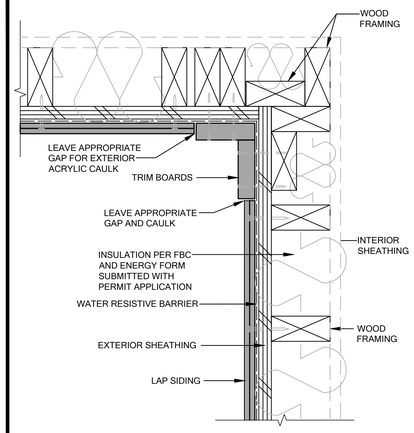
Orlando, Fl. 32808
office: (407) 648-4567
habitatorlandoosceola.org

LOT: | BLK: | UNIT:
Community:
Plan Name: 1400 Mercy Drive
Project Address: 1234 South Road, City Florida 123456
Elev: | Garage: | Version: 0.0
Client No.: Client No.

Project No: 25-09339
Sheet No: WP1

Saved By: ERNEST.SOTO Date: 7/16/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing Files\25-09339 Mercy Drive Model.dwg



A INSIDE CORNER

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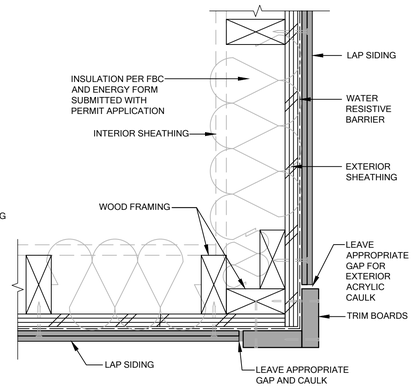
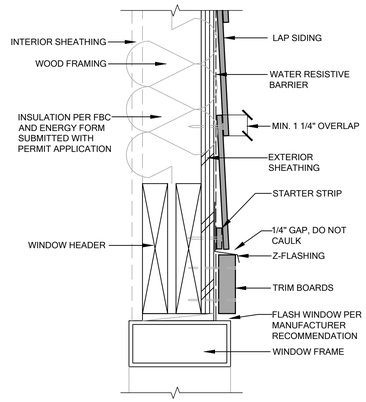


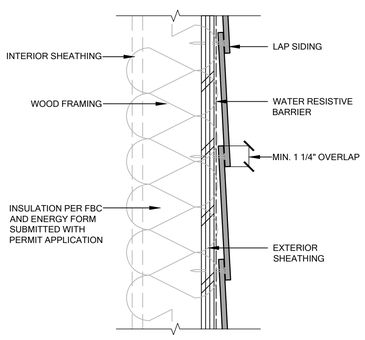
B OUTSIDE CORNER

SCALE: 3"=1'-0"



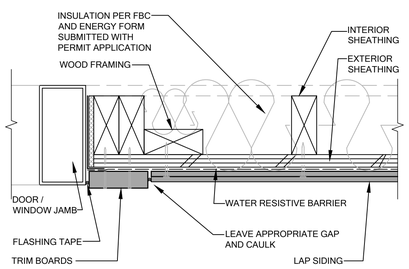
C WINDOW/DOOR HEAD

SCALE: 3"=1'-0"



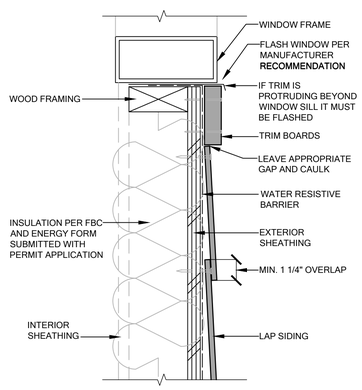
D HORIZONTAL LAP VIEW

SCALE: 3"=1'-0"



E DOOR / WINDOW JAMB

SCALE: 3"=1'-0"



F WINDOW SILL

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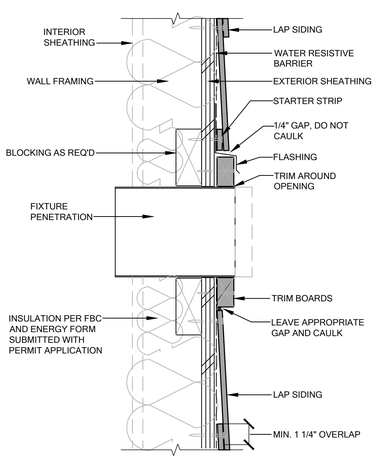

G FIXTURE PENETRATION

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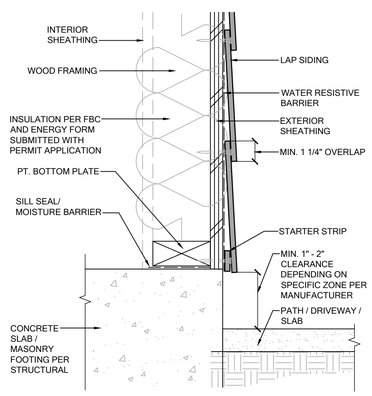
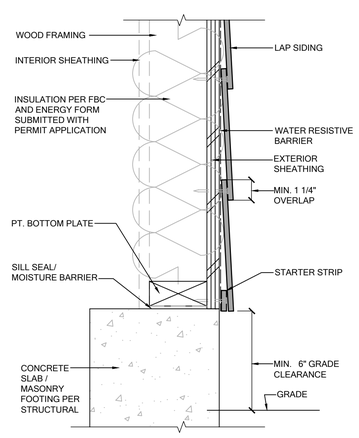


HARDSCAPE CLEARANCES, DECKS, PORCHES, PATIOS, WALKWAYS, ROOFS, ETC.

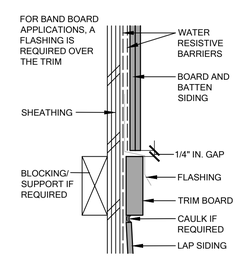
H

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



I GRADE CLEARANCE

SCALE: 3"=1'-0"



L DETAIL AT BAND BOARD

SCALE: 3"=1'-0"

FLASHING REQUIREMENTS

R703.1 General. Exterior walls shall provide the building with a weather-resistant exterior wall envelope. The exterior wall envelope shall include flashing as described in Section R703.4.

R703.1.1 Water resistance. The exterior wall envelope shall be designed and constructed in a manner that prevents the accumulation of water within the wall assembly by providing a water-resistant barrier behind the exterior cladding as required by Section R703.2 and a means of draining to the exterior water that penetrates the exterior cladding.

R703.2 Water-resistive barrier. Not fewer than one layer of water-resistive barrier shall be applied over studs or sheathing of all exterior walls with flashing as indicated in Section R703.4, in such a manner as to provide a continuous water-resistive barrier behind the exterior wall veneer. The water-resistive barrier material shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1. Water-resistive barrier materials shall comply with one of the following:

1. No. 15 felt complying with ASTM D226, Type 1.
2. ASTM E2568, Type 1 or 2.
3. ASTM E331 in accordance with Section R703.11.
4. Other approved materials in accordance with the manufacturer's installation instructions.

No. 15 asphalt felt and water-resistive barriers complying with ASTM E2556 shall be applied horizontally, with the upper layer lapped over the lower layer not less than 2 inches (51mm), and where joints occur, shall be lapped not less than 6 inches (152 mm).

R703.7.3 Water-resistive barriers Water-resistive barriers shall be installed as required in Section R703.2 and, where applied over wood-based sheathing, shall include a water-resistive vapor-permeable barrier with a performance at least equivalent to two layers of Grade D paper. The individual layers shall be installed independently such that each layer provides a separate continuous plane and any flashing (installed in accordance with Section R703.4) intended to drain to the water-resistive barrier is directed between the layers.

Exception: Where the water-resistive barrier that is applied over wood-based sheathing has a water resistance equal to or greater than that of 60-minute Grade D paper and is separated from the stucco by an intervening, substantially nonwater-absorbing layer or designed drainage space.

R703.4 Flashing. Approved metal flashing, vinyl flashing, self-adhered membranes and mechanically attached flexible flashing shall be applied shingle-fashion or in accordance with the manufacturer's instructions. Metal flashing shall be corrosion resistant. Fluid-applied membranes used as flashing shall be applied in accordance with the manufacturer's instructions. All flashing shall be applied in a manner to prevent the entry of water into the wall cavity or penetration of water to the building structural framing components. Self-adhered membranes used as flashing shall comply with AAMA 711. All exterior fenestration products shall be sealed at the juncture with the building wall with a sealant complying with AAMA 800 or ASTM C920 Class 25 Grade NS or greater for proper joint expansion and contraction, ASTMC1281, AAMA 812, or other approved standard as appropriate for the type of sealant. Fluid-applied membranes used as flashing in exterior walls shall comply with AAMA 714. The flashing shall extend to the surface of the exterior wall finish. Approved flashings shall be installed at the following locations:

1. Exterior window and door openings. Flashing at exterior window and door openings shall extend to the surface of the exterior wall finish or to the water-resistive barrier complying with Section 703.2 for subsequent drainage. Mechanically attached flexible flashings shall comply with AAMA 712. Flashing at exterior window and door openings shall be installed in accordance with one or more of the following:
   - 1.1 The fenestration manufacturer's installation and flashing instructions, or for applications not addressed in the fenestration manufacturer's instructions, in accordance with the flashing or water-resistive barrier manufacturer's instructions. Where flashing instructions or details are not provided, pan flashing shall be installed at the sill of exterior window and door openings. Pan flashing shall be sealed or sloped in such a manner as to direct water to the surface of the exterior wall finish or to the water resistive barrier for subsequent drainage. Openings using pan flashing shall incorporate flashing or protection at the head and sides.
   - 1.2 In accordance with the flashing design or method of a registered design professional.
   - 1.3 In accordance with other approved methods.
   - 1.4 In accordance with FMA/AAMA 100, FMA/ AAMA 200, FMA/WDMA 250, FMA/AAMA/ WDMA 300 or FMA/AAMA/WDMA 400 or FMA/AAMA/WDMA 2710.
2. At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.
3. Under and at the ends of masonry, wood or metal copings and sills.
4. Continuously above all projecting wood trim.
5. Where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction.
6. At wall and roof intersections.
7. At built-in gutters.

THESE DETAILS ARE GENERIC AND MEANT TO SHOW GENERAL FLASHING AND WATERPROOFING METHODS TO BE USED.

CLEARANCE AND FLASHING REQUIREMENTS

Figure 3
Roof to Wall

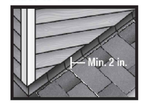


Figure 4
Horizontal Flashing

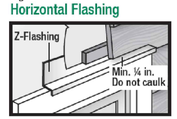


Figure 5
Kickout Flashing

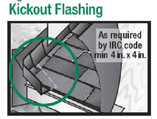


Figure 6
Slabs, Path, Steps to Siding

Figure 7
Deck to Wall

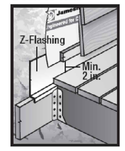


Figure 8
Ground to Siding

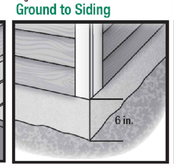


Figure 9
Gutter to Siding

Figure 10
Sheltered Areas

Figure 11
Mortar/Masonry

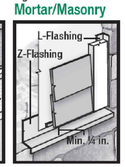


Figure 12
Drip Edge

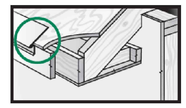


Figure 13
Block Penetration

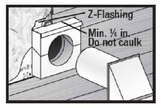
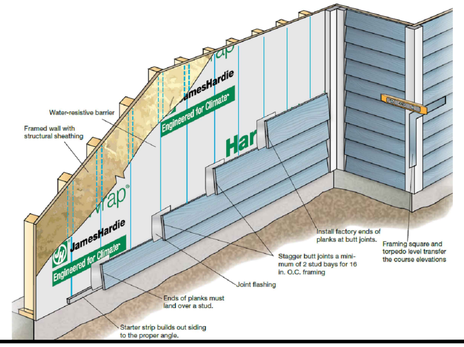


Figure 14
Valley/Shingle Extension

OVERVIEW OF HARDIEPLANK LAP SIDING



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MUNICIPAL STAMP AREA

SIGNATURE & SEAL
07/15/2026

To the best of the Engineer's knowledge, information and belief, the structural plans and specifications contained within these drawings comply with the 2023 Florida Building Code – Residential 8th Edition. Engineer's signature and seal is only for the structural engineering portions of the drawing pages bearing Engineer's signature and seal.

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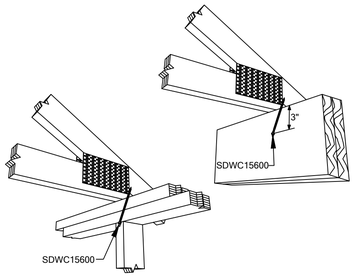
Orlando, Fl. 32808
office: (407) 648-4567
habitatorlandosceola.org

LOT: | BLK: | UNIT:
Community:
Plan Name: 1400 Mercy Drive
Elev: | Garage:
Project Address: 1234 South Road City Florida 123456
Version: 0.0
Client No.: Client No.

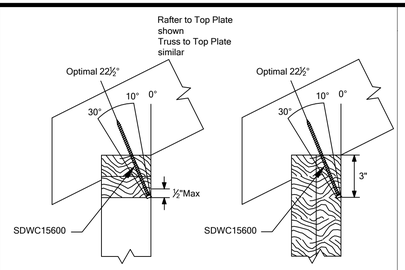
Project No: 25-09339
Sheet No: WP2

Saved By: ERNESTO.SOTO Date: 7/16/2026 | Plot Date: 7/15/2026 | File Location: \\FS01\Public\Habitat Orlando_base plans_New Plans\25-09339 Mercy Drive (Wood Frame)\Drawing Files\25-09339 Mercy Drive Model.dwg

CODES: SDWC15600: IAPMO-UES ER-262

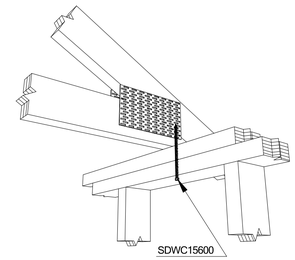


1 SINGLE SDWC ROOF TO WALL OR BEAM INSTALLTION



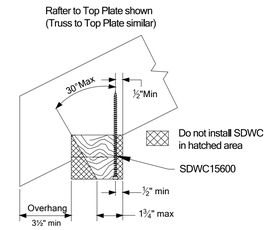
Note: 1. Sloped-roof rafters may be sloped up to and including a 12:12 pitch and must be "birdsmouth" cut.
2. Reference detail 4 for installation instructions.

1a SINGLE SDWC ROOF TO WALL OR BEAM INSTALLATION RANGE



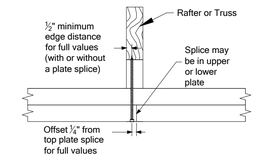
Note: Reference detail 2a for installation angle limit

2 OPT. SDWC INSTALLATION - TRUSS/RAFTER OFFSET FROM STUD

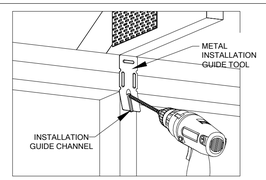


Note: Sloped-roof rafters may be sloped up to and including a 12:12 pitch and must be "birdsmouth" cut.

2a OPT. SDWC INSTALLATION RANGE



3 SDWC MIN. EDGE DISTANCE FOR TOP PLATE SPLICE

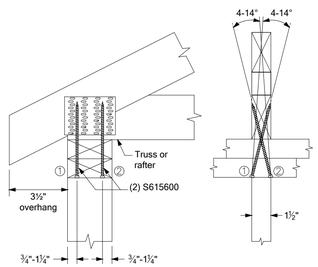


Step 1 - Align the metal installation guide tool (included) with the truss or rafter, and drive the tip of the Strong-Drive SDWC to engage the threads.

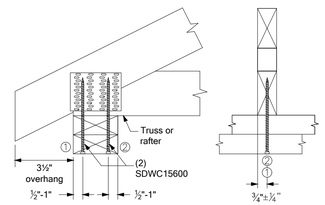
Step 2 - While continuing to drive the SDWC, "drop" the fastener head into the guide channel to ensure optimal installation angle of 22.5°. The installation angle range is 10°-30° (see detail 1a). Once the installation angle is established, the metal installation guide tool may be removed.

Step 3 - Drive the SDWC until the head of the fastener is fully countersunk into the double top plate. Verify that the entire shank of the fastener is installed into a wood member.

4 SDWC INSTALLATION INSTRUCTIONS (ROOF TO WALL)

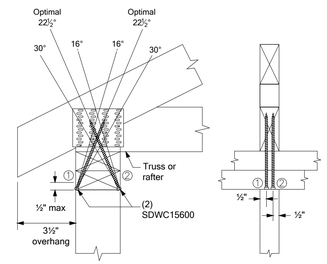


5 DOUBLE SDWC INSTALL: CONFIGURATION A



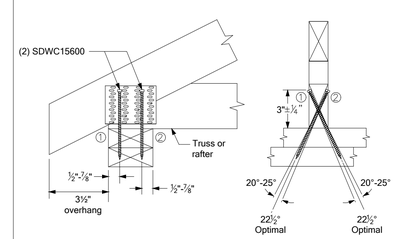
Both screws installed ±5°.

6 DOUBLE SDWC INSTALL: CONFIGURATION B



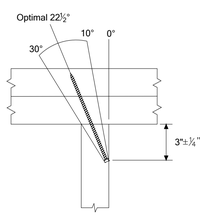
Use metal installation guide included in screw kits for optimal 22.5° installation.

7 DOUBLE SDWC INSTALL: CONFIGURATION C



Use metal installation guide included in screw kits for optimal 22.5° installation. To predrill through truss plates, use a ⅛" drill bit.

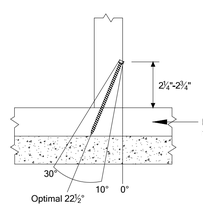
8 DOUBLE SDWC INSTALL: CONFIGURATION D



SDWC15600 at Stud to Double Top Plates
(Wide Face of Stud)

Note: Stud-to-double top plates shown. Stud-to-single/double bottom plates over wood floor similar.

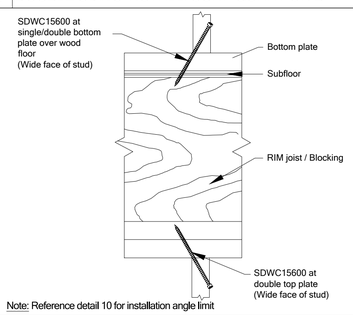
9 SDWC STUD-TO-TOP/BOTTOM PLATES CONNECTION



SDWC15450 at Sill Plate Connection
Finish: Black E-Coat™
(Wide Face of Stud)

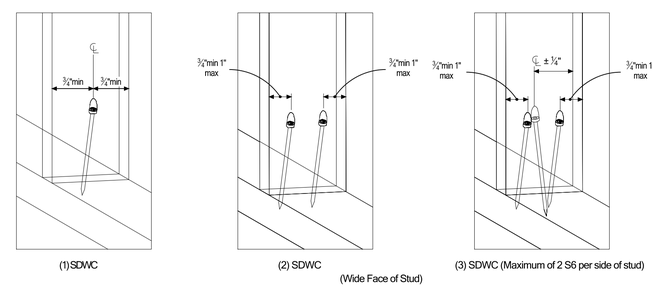
Note: Sill plate anchor to foundation not shown for clarity.

10 S6 STUD-TO-SILL PLATE CONNECTION



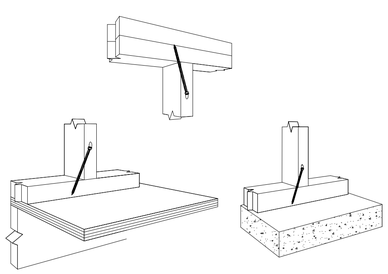
Note: Reference detail 10 for installation angle limit

11 SDWC STUD-TO-BOTT. PLATE CONNECTION OVER WOOD FLOOR

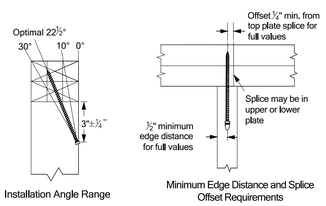


Note: Stud-to-Bottom Plate shown. All other installations similar.

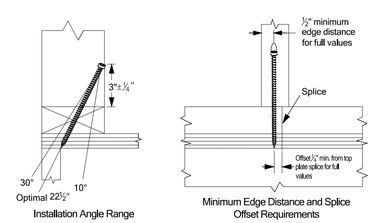
12 SDWC EDGE DISTANCE AND SPACING INFORMATION



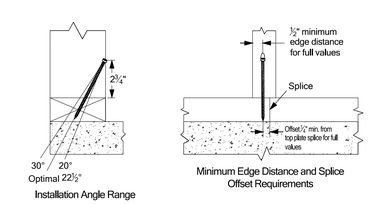
13 NARROW FACE OF STUD CONNECTIONS



14 NARROW FACE OF STUD TO TOP PLATE INSTALLATION



15 NARROW FACE OF STUD TO BOTTOM PLATE INSTALLATION



16 NARROW FACE OF STUD TO SILL PLATE INSTALLATION

14 NOTES

1. STRONG-DRIVE STRUCTURAL WOOD SCREWS FOR TRUSS/RAFTER, STUD-TO-PLATE, AND FLOOR-TO-FLOOR CONNECTIONS ARE MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY, INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY.
2. USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
3. THESE PRODUCTS ARE PART OF THE OVERALL WIND UPLIFT FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S MAIN WIND FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER UPLIFT FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE SPECIFIER.
4. ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ETC. PRIOR TO INSTALLATION OF ANY STRONG-DRIVE SCREWS FOR THE WIND UPLIFT RESISTING SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE SPECIFIER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
6. INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE SPECIFIER.
7. SIMPSON STRONG-TIE COMPANY, INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
8. ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.

NOTE:
SIMPSON SDWC ATTACHMENT DETAILS HAVE BEEN INCLUDED FOR INFORMATION PURPOSES ONLY. ALL SPECIFICATIONS FOR PRE-ENGINEERED COMPONENTS ARE THE RESPONSIBILITY OF THE MANUFACTURER.
SIMPSON SDWC SCREWS ARE TO BE USED IN LIEU OF STRAPPING WHERE AVAILABLE. HOWEVER, WHERE SDWC SCREWS CANNOT BE INSTALLED IN ACCORDANCE W/ MANUFACTURERS SPECIFICATIONS, STRAPPING SHALL BE USED.
MORE STRINGENT MANUF. REQUIREMENTS SHALL CONTROL. CONTRACTOR SHALL CONSULT WITH MANUFACTURER TO CONFIRM REQUIREMENTS PRIOR TO INSTALLATION OF SYSTEM.

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WIND UPLIFT RESISTING STRONG-DRIVE® SCREW FASTENING SYSTEMS
THERE IS NO EQUAL.

THIS SHEET DESCRIBES THE USE OF THE SDWC SCREW SYSTEM. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

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07/15/2026

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office: (407) 648-4567
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LOT: BLK: UNIT:
Community:
Plan Name: 1400 Mercy Drive
Elev: Garage:
Version: 0.0
Project Address: 1234 South Road City Florida 123456
Client No: Client No.

Project No: 25-09339
Sheet No: SDWCS

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