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KEVIN C. MARTIN LICENSE No 80359 STATE OF FLORIDA PROFESSIONAL ENGINEER

CONSTRUCTION PLANS

FOR

NEW SINGLE FAMILY

AT

PARCEL ID: 14-03S-12E-10270-003000

167TH ROAD

LIVE OAK, FLORIDA 32060

GENERAL NOTES:

1. IT IS THE INTENT THAT THIS WORK BE IN CONFORMANCE WITH THE **2020 FLORIDA BUILDING CODE, 7TH ED. RESIDENTIAL** AND ALL AUTHORITIES HAVING JURISDICTION OVER THIS TYPE OF CONSTRUCTION AND OCCUPANCY. CONTRACTOR SHALL DO THEIR WORK IN CONFORMANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT ALL DISCREPANCIES THE DRAWINGS AND EXISTING CONDITION TO THE ENGINEER PRIOR TO COMMENCING WORK.
3. THESE DOCUMENTS, AS INSTRUMENTS OF SERVICE, ARE THE PROPERTY OF THE ENGINEER AND MAY NOT BE USED OR REPRODUCED WITHOUT EXPRESSED WRITTEN CONSENT OF THE ENGINEER.
4. ALL DETAILS AND SECTIONS SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.
5. CONTRACTOR WILL INCORPORATE ALL NECESSARY LOCAL/STATE/FEDERAL BUILDING, FIRE, AND HANDICAP CODES INTO THE DESIGN AND BASE PROPOSAL FOR A COMPLETE TURN-KEY PROJECT.
6. PROJECT SHALL BE TURNED OVER TO OWNER IN A CLEAN CONDITION WITH ALL TRASH AND DEBRIS REMOVED FROM SITE. ALL WINDOWS AND GLASS CLEAN, ALL FLOORS CLEAN, ALL HORIZONTAL SURFACES DUSTED AND CLEANED, AND ALL PLUMBING AND TOILET FIXTURES CLEAN AND IN GOOD WORKING ORDER. CONTRACTOR SHALL HAUL ALL RUBBISH FROM SITE ON A REGULAR BASIS. DO NOT ALLOW TO ACCUMULATE.
7. CONTRACTOR TO OBTAIN ALL PERMITS, PAY ALL FEES AND TAXES. CONTRACTOR SHALL GUARANTEE ALL MATERIALS & WORKMANSHIP FREE FROM DEFECTS. FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE ION AND SHALL INCLUDE INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
8. DIMENSIONS INDICATED ON THE DRAWINGS IN REFERENCE TO EXISTING CONDITIONS ARE THE BEST AVAILABLE DATE OBTAINABLE, BUT ARE NOT GUARANTEED. BEFORE PROCEEDING WITH ANY WORK DEPENDENT ON THE DATA INVOLVED, THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS, GRADES, LINES, LEVELS, OR OTHER CONDITIONS OF LIMITATIONS AT THE SITE TO AVOID CONSTRUCTION ERRORS. IF ANY WORK IS PERFORMED BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS PRIOR TO ADEQUATE VERIFICATION OF APPLICABLE DATA, AT RESULTANT EXTRA COST FOR ADJUSTMENT OR WORK AS REQUIRED TO CONFORM TO EXISTING LIMITATIONS, SHALL BE ASSUMED BY THE CONTRACTOR WITHOUT REIMBURSEMENT OR COMPENSATION BY THE OWNER.
9. A DESIGNATED LOCATION FOR STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT SHALL BE DETERMINED BY THE OWNER AND IDENTIFIED AT THE PRE-CONSTRUCTION MEETING.
10. CONTRACTOR PERSONNEL ARE CONFINED TO AREAS OF BUILDING NECESSARY FOR COMPLETION OF WORK. FREE ACCESS TO ALL PARTS OF THE BUILDING IS NOT ALLOWED.
11. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, UNCRATING, SORTING, SETTING IN PLACE, AND PROTECTING FROM DAMAGE ALL NEW EQUIPMENT FURNISHED BY THE CONTRACTOR. THIS SHALL ALSO APPLY TO ITEMS FURNISHED BY THE OWNER TO THE CONTRACTOR.
12. 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. 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 THE RULES AND LAWS ESTABLISHED BY FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
13. TERMITE PROTECTION TO BE DONE AFTER ALL EXCAVATION, BACKFILLING AND COMPACTION IS COMPLETE. ANY DISTURBED SOIL TREATMENT MUST BE RETREATED.
14. TREATMENT SHALL BE PROTECTED FROM RAINFALL BY 6 MIL VAPOR BARRIER. IF RAINFALL OCCURS BEFORE BARRIER PLACEMENT, SOIL MUST BE RETREATED.
15. PROTECTIVE SLEEVES AROUND METALLIC PIPING PENETRATING CONCRETE SLAB-ON-GRADE FLOORS SHALL BE NON-CELLULOSE CONTAINING MATERIALS AND RECEIVE AN APPLICATION OF TERMITICIDE IN ANNULAR SPACE BETWEEN SLEEVE AND PIPE.

ELECTRICAL NOTES:

1. ALL ELECTRICAL WIRING TO BE IN ACCORDANCE WITH 2020 FLORIDA BUILDING CODE, 7TH EDITION, RESIDENTIAL AND 2018 NATIONAL ELECTRIC CODE (NEC).
2. ALL SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS SHALL BE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE, 7TH EDITION.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE ARC-FAULT CIRCUIT INTERRUPTERS IN LIVING, DINING, HALLWAYS, AND BEDROOMS PER 2020 FBC R3902.12
4. ALL OUTDOOR RECEPTACLES SHALL BE PROTECTED FROM MOISTURE PER 2017 FBC R3905.11
5. ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS PER FBC-ENERGY CONSERVATION R404.
6. ELEVATORS SHALL BE IN ACCORDANCE WITH FBC 2020, 7TH ED, SECTION R321.1

MECHANICAL NOTES:

1. ALL DUCT SIZING SHALL BE IN ACCORDANCE W/ ACCA MANUAL "D". PROVIDE DUCT TESTING IN ACCORDANCE W/ ASHRAE STANDARD 152.
2. DUCT LAYOUT AND ALL OTHER MECHANICAL COMPONENTS ARE SHOWN ON THE APPROVED DUCT LAYOUT PLAN INCLUDED IN THE ENERGY CALCULATION PACKAGE PERFORMED BY OTHERS.
3. ALL DUCTS & AIR HANDLERS NOT LOCATED IN CONDITIONED SPACE SHALL BE TESTED TO BE "SUBSTANTIALLY" LEAK FREE.
4. DUCTS IN GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE INSTALLED ACCORDING TO FBC R302.5.2
5. ALL INSULATION SPECIFICATIONS ARE INCLUDED IN THE ENERGY CALCULATION PACKAGE PERFORMED BY OTHERS. IF ANY INSTALLED INSULATION MATERIALS DO NOT MATCH THE ENERGY FORMS, NEW CALCULATIONS SHALL BE PERFORMED OR THE ORIGINAL APPROVED INSULATIONS SHALL BE INSTALLED.
6. ELEVATORS SHALL BE IN ACCORDANCE WITH THE FBC 2020, 7TH ED., SECTION R321.1

PLUMBING NOTES:

1. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE.
2. ALL EXCAVATION & BACK FILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT,
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO A VOID INTERFERENCE WITH THE PROCESS OF CONSTRUCTION.
4. VERIFY LOCATION, SIZE, TRAPS, INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES. ANY COST RES UL TING FROM DISCREPANCIES NOT REPORTED AT THIS TIME SHALL BE PAID BY THE CONTRACTOR.
5. WATER PIPING TO BE TYPE "M" OR TYPE "L" COPPER ABOVE OR BELOW GRADE.
6. SOIL, WASTE & VENT PIPING TO BE PVC. #40 DWV.
7. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS
8. WHERE DISSIMILAR METALS ARE TO BE JOINED, APPROVED INSULATING UNIONS SHALL BE USED.
9. INSULATE HOT WATER LINES WITH 1" THICK SNAP ON INSULATION FIRST 8 FEET FROM WATER HEATER.
10. CONDENSATE LINES TO BE COPPER/PVC DEPENDING ON PROJECT REQUIREMENTS.
11. INSULATE WITH 1/2" THICK ARMAFLEX INSULATION.

BUILDING STRUCTURE INFORMATION:

1st FLOOR CONDITIONED.....1,232 S.F.
TOTAL CONDITIONED: 1,232 S.F.

TOTAL SPACE.....1,232 S.F.
TOTAL COND. VOLUME:.....9,856 CU.FT.
TYPE OF CONSTRUCTION.....5B
OCCUPANCY:.....R-3
FIRE SPRINKLERS:.....NO
MAX HEIGHT OF STRUCTURE.....<35'

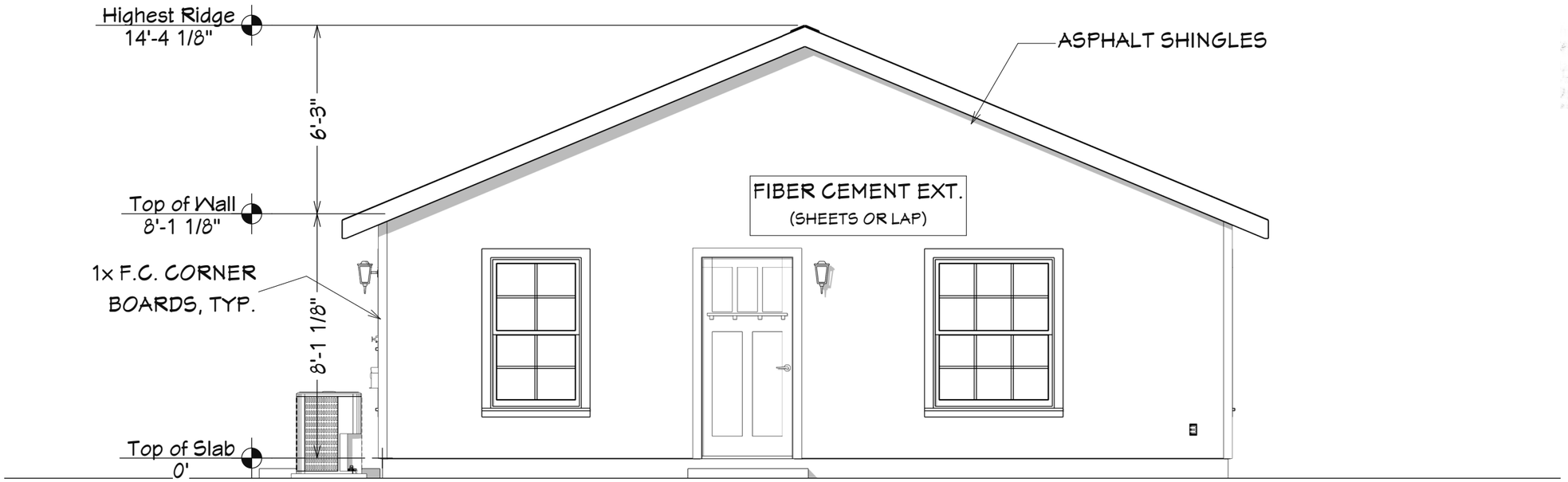
PLAN SHEETS	
Label	Title
A-0	GENERAL NOTES
A-1	ELEVATIONS
A-2	ELEVATIONS
A-3	FLOOR PLAN & SECTION
A-4	ROOF PLAN
A-5	ELECTRICAL LAYOUT
A-6	PLUMBING/FIXTURE LAYOUT
A-7	FLASHING DETAILS
A-8	FLASHING DETAILS
S-1 - S-8	STRUCTURAL PLANS

REVISION TABLE		
NO.	DESCRIPTION	DATE

GENERAL NOTES
NEW SINGLE FAMILY
167TH ROAD-(14-03S-12E-10270-003000)
LIVE OAK, FLORIDA 32060

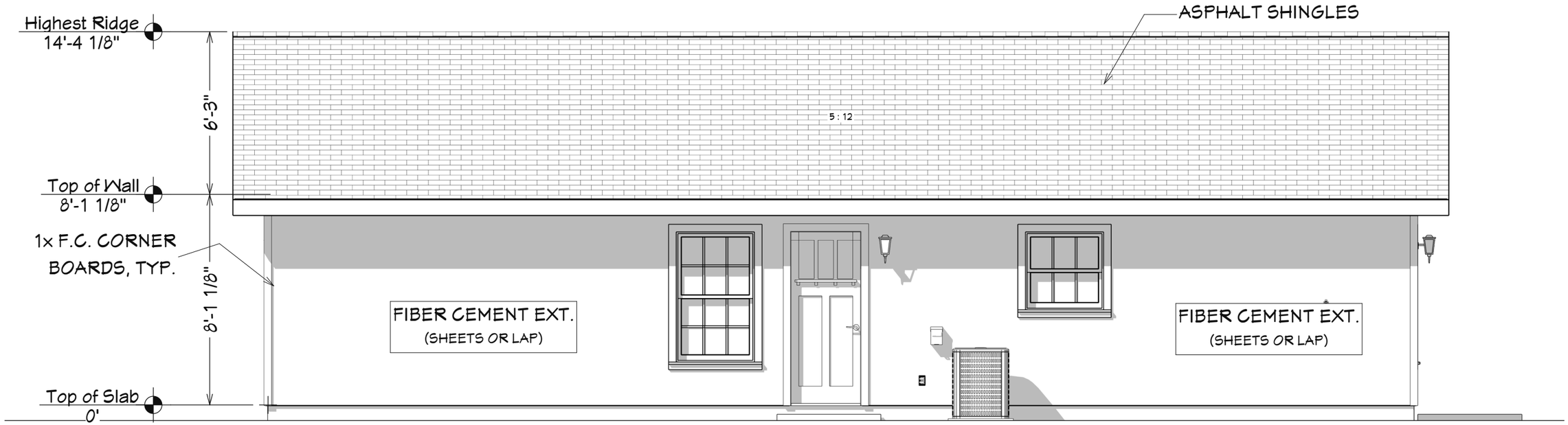
MARTIN ENGINEERING, LLC.
450 STATE RD. N #106-387
JACKSONVILLE, FL 32259
904-472-1454
FL CA#32027

PROJ.#: 22-880
DESIGNED:KCM
DRAWN: KCM
SCALE: NOTED
DATE:12/2/2022
SHEET NUMBER
A-0



FRONT ELEVATION

SCALE: 3/16" = 1'-0"



LEFT ELEVATION

SCALE: 3/16" = 1'-0"

KEVIN C. MARTIN
LICENSE
No 80359
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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FL CA#32027

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DESIGNED:KCM

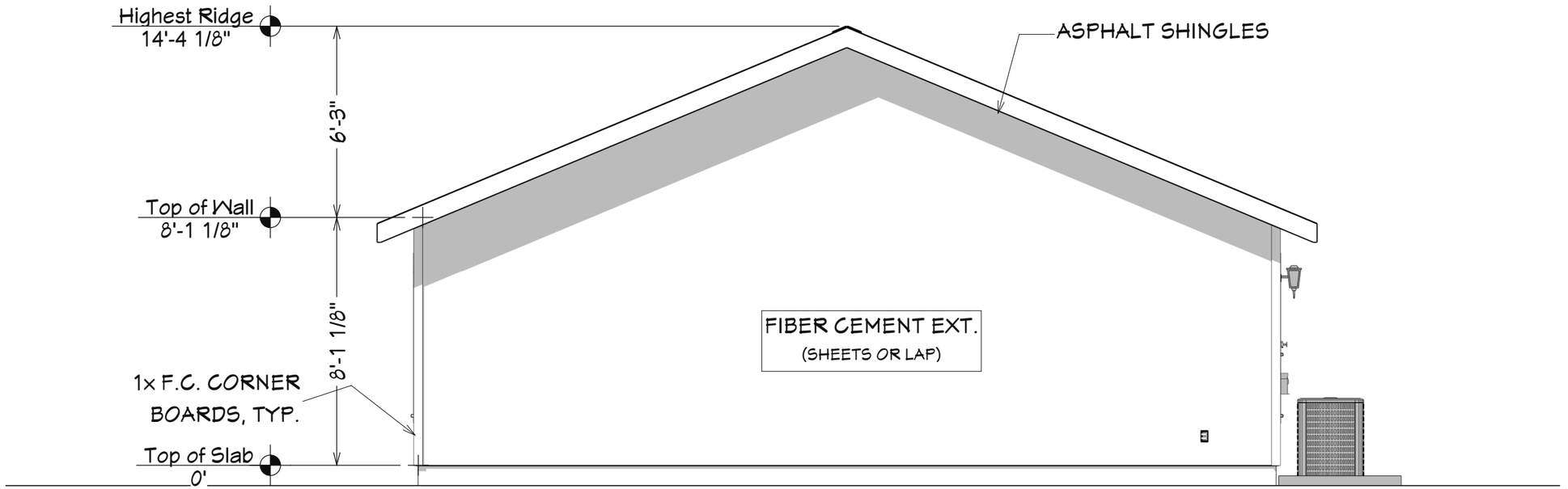
DRAWN: KCM

SCALE: NOTED

DATE:12/2/2022

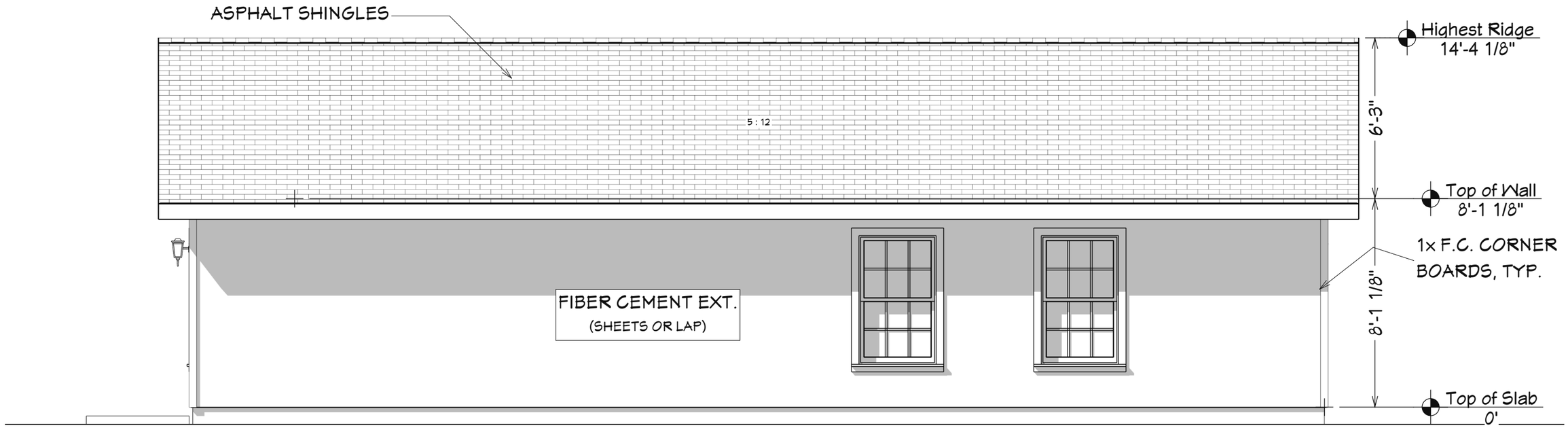
SHEET NUMBER

A-1



REAR ELEVATION

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



RIGHT ELEVATION

SCALE: 3/16" = 1'-0"

KEVIN C. MARTIN
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No 80359
STATE OF
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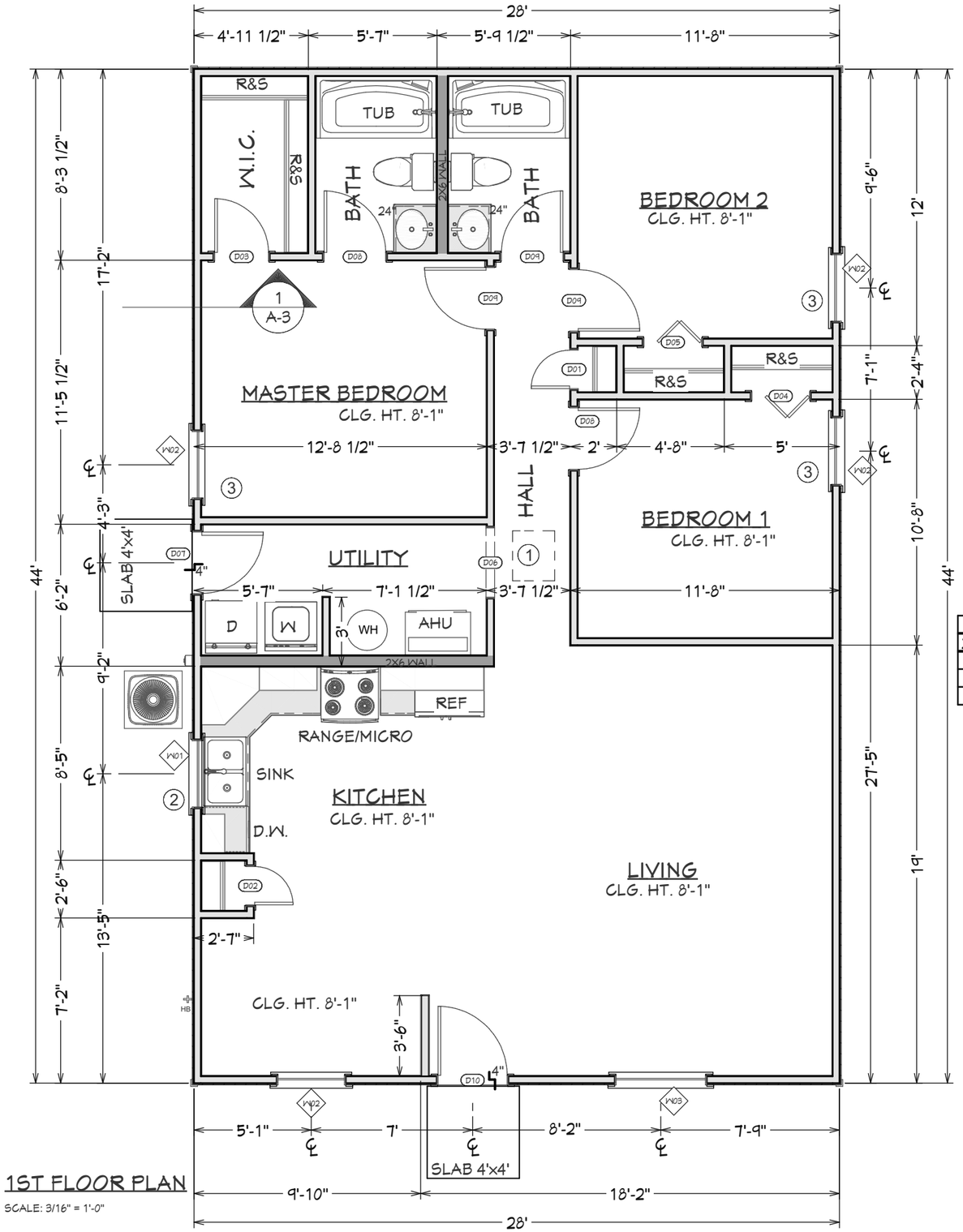
A-2



1ST FLOOR PLAN

SCALE: 3/16" = 1'-0"

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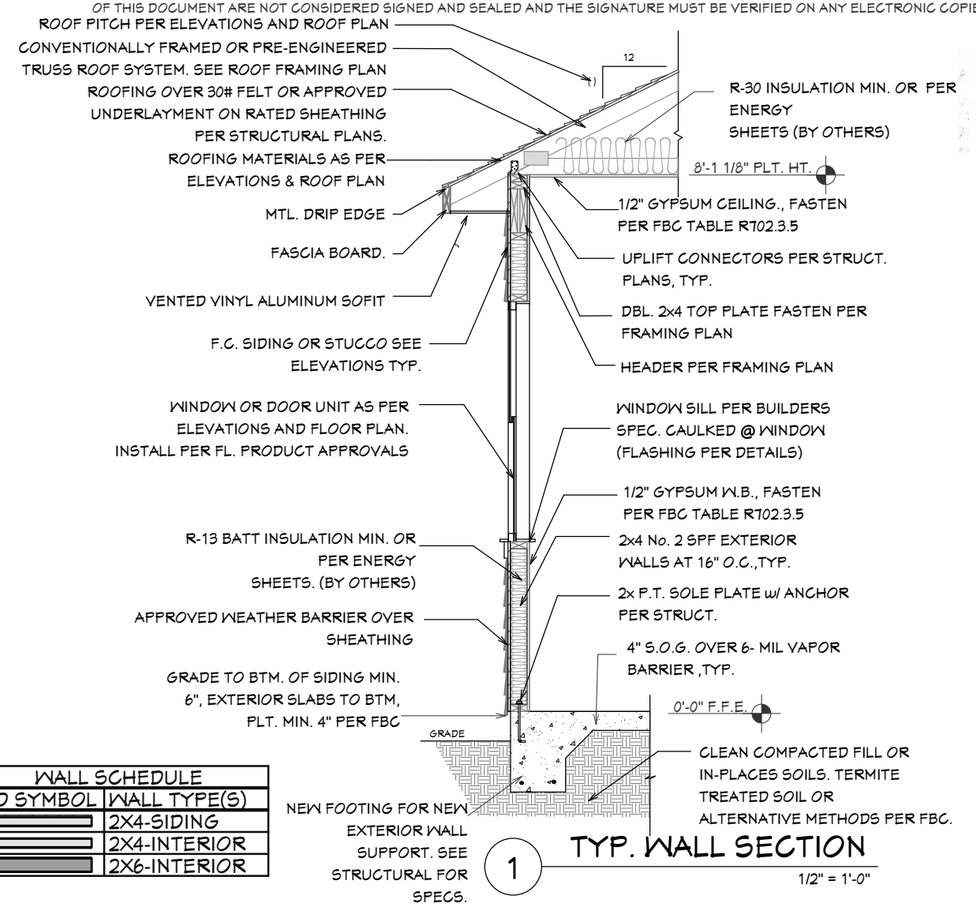

TYP. WALL SECTION

1/2" = 1'-0"

WALL SCHEDULE	
2D SYMBOL	WALL TYPE(S)
	2X4-SIDING
	2X4-INTERIOR
	2X6-INTERIOR

DOOR SCHEDULE

NUMBER	LABEL	QTY	SIZE	WIDTH	HEIGHT	DESCRIPTION	COMMENTS
D01	1868	1	1868 L IN	20 "	80 "	HINGED-DOOR P04	
D02	1868	1	1868 R IN	20 "	80 "	HINGED-DOOR P04	
D03	2468	1	2468 L IN	28 "	80 "	HINGED-DOOR P04	
D04	2668	1	2668 L	30 "	80 "	2 DR. BIFOLD-DOOR P04	
D05	2668	1	2668 R	30 "	80 "	2 DR. BIFOLD-DOOR P04	
D06	3068	1	3068	36 "	80 "	DOORWAY	
D07	2868	1	2868 L EX	32 "	80 "	EXT. HINGED-DOOR E21	
D08	2868	2	2868 L IN	32 "	80 "	HINGED-DOOR P04	
D09	2868	3	2868 R IN	32 "	80 "	HINGED-DOOR P04	
D10	3068	1	3068 L EX	36 "	80 "	EXT. HINGED-DOOR E21	

WINDOW SCHEDULE

NUMBER	LABEL	QTY	SIZE	WIDTH	HEIGHT	BOTTOM	DESCRIPTION	COMMENTS	AREA, ACTUAL (SQ FT)
W01	3030SH	1	3030SH	36 "	36 "	44"	SINGLE HUNG		9.0
W02	3050SH	4	3050SH	36 "	60 "	20"	SINGLE HUNG		15.0
W03	4050SH	1	4050SH	48 "	60 "	20"	SINGLE HUNG		20.0
TOTALS:									89.0

FLORIDA BUILDING CODE NOTE SCHEDULE

(1)	FBC-R807.1-ATTIC ACCESS TO BE A MIN. 22"X30" IN SIZE IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION
(2)	HAZARDOUS. GLAZING. PER FBCR-308.4.3
(3)	R310.2.1-EMERGENCY ESCAPE AND RESCUE OPENINGS (EGRESS)

KEVIN C. MARTIN LICENSE No 80359 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISION TABLE

NO	DESCRIPTION	DATE

FLOOR PLAN & SECTION
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JACKSONVILLE, FL 32259
904-412-1459
FL CA#32027

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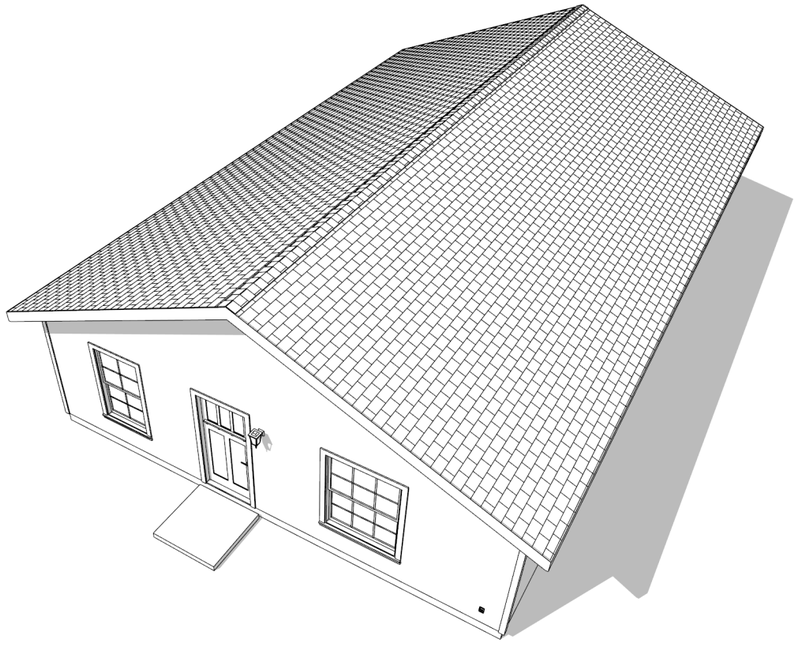
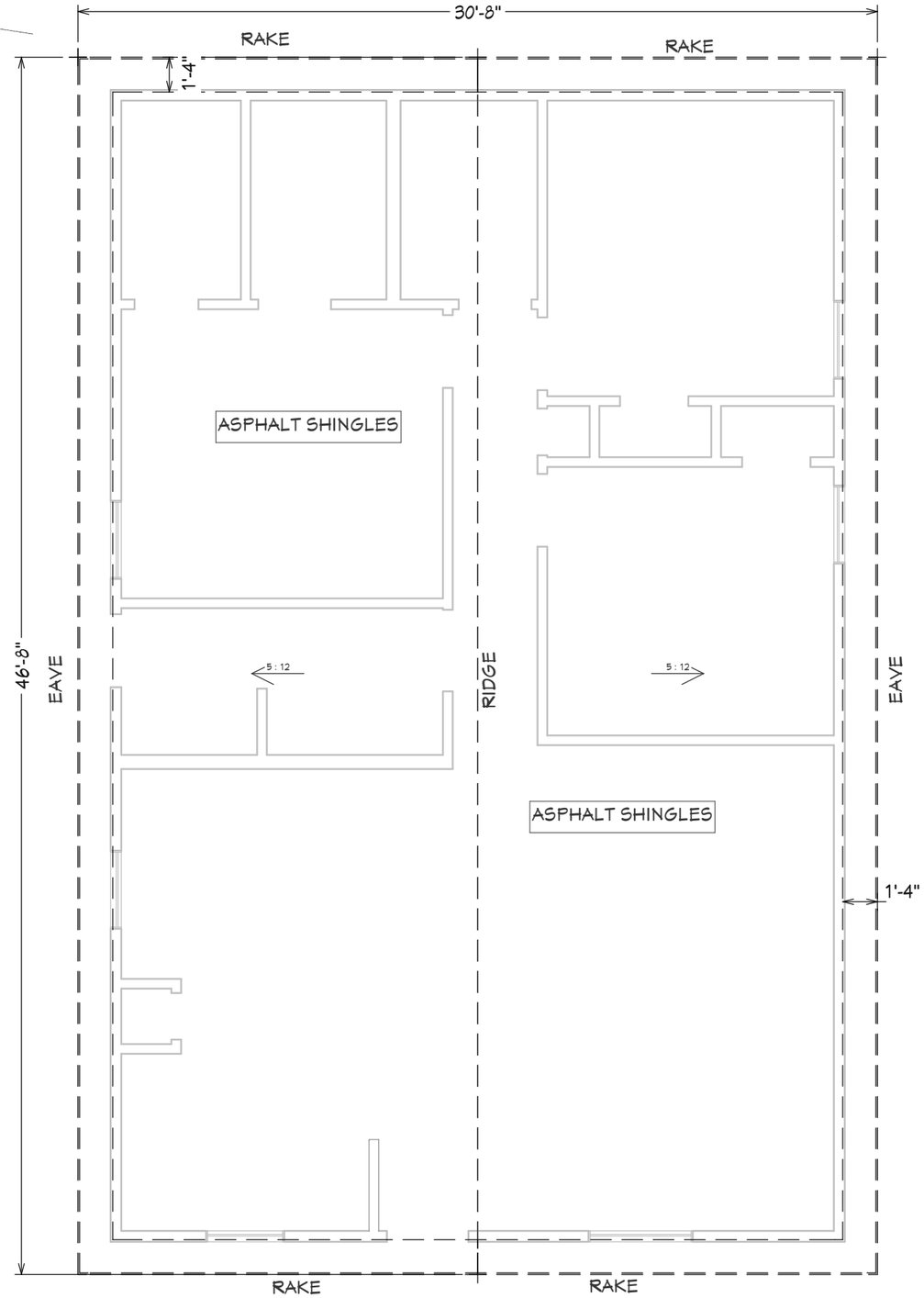
A-3



ROOF ISOMETRIC

SCALE: N.T.S.



ROOF PLAN

SCALE: 3/16" = 1'-0"

VENTILATION CALCULATIONS

VENTILATION REQUIRED:
ATTIC SPACE = 1,233 SQFT
1,232 / 150 = 8.2 SQFT
8.2 X 144 = 1,181 SQIN
1,181 X 0.5(50%) = 591 SQIN NET FREE ROOF VENT REQ'D
1,181X 0.5(50%) = 591 SQIN NET FREE SOFFIT VENT REQ'D
UPPER ROOF VENT SPECS:
TYP. RIDGE VENT PROVIDES 15 SQIN/LIN. FT. NET FREE SPACE
UPPER ROOF VENT REQUIREMENTS:
591 SQIN / 15 SQIN-LIN FT = 40 LIN FT. OF RIDGE VENT REQUIRED
SOFFIT VENTS REQUIREMENTS:
LIN. FT OF SOFFIT AVAILABLE = 154'
AIR FLOW PER LIN. FT. = (3"x12") VENTS AT 6' O.C. = 6 SQIN
TOTAL = 6 SQIN/FT * 154'= 924SQIN NET FREE SOFFIT AREA PROVIDED >591 SQIN REQUIRED

VENTILATION REQUIREMENTS SHALL BE IN ACCORDANCE W/ SECTION R806.1 OF THE 2020 RESIDENTIAL FLORIDA BUILDING CODE.

KEVIN C. MARTIN LICENSE No 80359 STATE OF FLORIDA PROFESSIONAL ENGINEER

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ROOF PLAN
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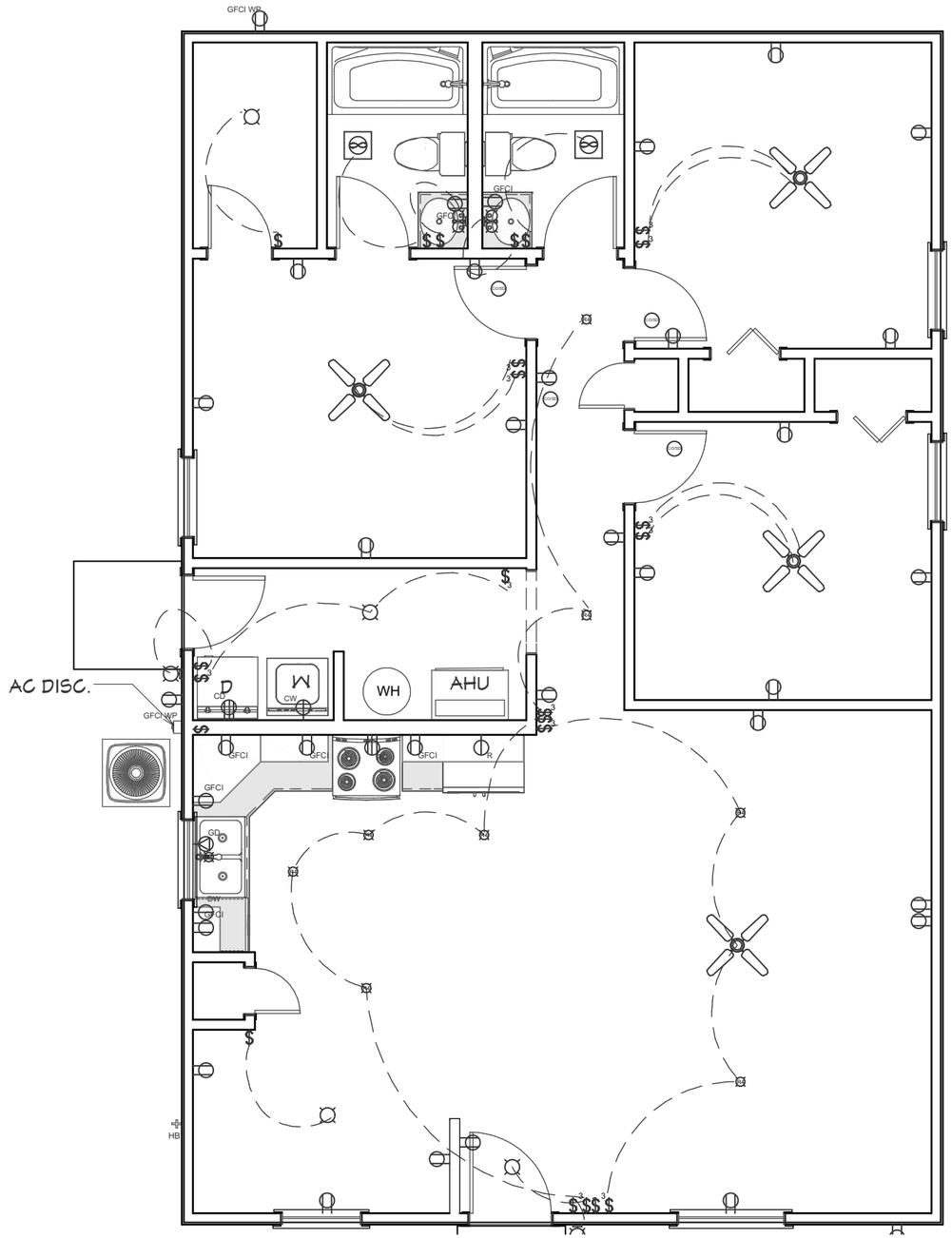
ELECTRICAL - DATA - AUDIO LEGEND	
SYMBOL	DESCRIPTION
	CEILING FAN
	VENTILATION FANS: CEILING MOUNTED, WALL MOUNTED
	CEILING MOUNTED LIGHT FIXTURES: SURFACE/PENDANT, RECESSED, HEAT LAMP, LOW VOLTAGE
	WALL MOUNTED LIGHT FIXTURES: FLUSH MOUNTED, WALL SCONCE
	CHANDELIER LIGHT FIXTURE
	FLUORESCENT LIGHT FIXTURE
	240V RECEPTACLE
WP GFCI	110V RECEPTACLES: DUPLEX, WEATHER PROOF, GFCI
$ WP $3 $4	SWITCHES: SINGLE POLE, WEATHER PROOF, 3-WAY, 4-WAY
DM $T	SWITCHES: DIMMER, TIMER
AV Control $A	AUDIO VIDEO: CONTROL PANEL, SWITCH
SP SP	SPEAKERS: CEILING MOUNTED, WALL MOUNTED
CS CS/TV TV	WALL JACKS: CAT5, CAT5 + TV, TV/CABLE
	TELEPHONE JACK
	INTERCOM
T	THERMOSTAT
	DOOR CHIME, DOOR BELL BUTTON
SD	SMOKE DETECTORS: CEILING MOUNTED, WALL MOUNTED
EP	ELECTRICAL BREAKER PANEL



ELECTRICAL LAYOUT

SCALE: 3/16" = 1'-0"

ELECTRICAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL PROVIDE ARC-FAULT CIRCUIT INTERRUPTERS IN ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE PHASE, 15 & 20 AMP OUTLETS IN LIVING ROOMS, DINING ROOMS, HALLWAYS, BEDROOMS, DENS, SUNROOMS, RECREATION ROOMS, CLOSETS, OR SIMILAR AREAS PER 2017 FBC R3902.16

2. ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS FOR HIGH-EFFICACY LAMPS PER FBC-ENERGY CONSERVATION R404

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ELECTRICAL LAYOUT
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JACKSONVILLE, FL 32259
904-472-1454
FL CA#32027

PROJ.#: 22-880

DESIGNED:KCM

DRAWN: KCM

SCALE: NOTED

DATE:12/2/2022

SHEET NUMBER

A-5

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PLUMBING NOTES:

1. ALL PLUMBING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE-RESIDENTIAL 7TH EDITION 2020. AND WITH ALL APPLICABLE REGULATIONS.
2. ALL HORIZONTAL SANITARY PIPING SHALL SLOPE AT 1-1/8" PER FOOT MINIMUM FOR 3' AND LARGER AND AT 1-1/4" SLOPE FOR 2-1/2" PIPES AND SMALLER
3. PLUMBING FIXTURES, FIXTURES SHALL BE AS SELECTED BY OWNER AND SHALL BE COMPLETE WITH DRAINS, TRAPS, SUPPLIES AND ANY OTHER ACCESSORY REQUIRED. FIXTURES AND FAUCETS SHALL COMPLY WITH THE FBC WATER SAVING STANDARDS.
4. MATERIALS:

PIPING, UPONOR PEX PIPING OR PVC:

A. SOIL, WASTE AND VENT, AND STORM, SANITARY PIPE, PVC, DWV SCHEDULE 40 UNDER GROUND, AND ABOVE GROUND.

B. DOMESTIC WATER PVC PIPE AND FITTINGS INSIDE BUILDING WALLS, PVC OUTSIDE UNDER GROUND.

C. CONDENSATE DRAIN, DWC PVC PIPE AND FITTINGS. INSULATE ALL ABOVE GROUND CONDENSATE PIPING WITH 1-1/2" FOAM PLASTIC INSULATION WITH SOLVENT SEALED SEAMS.

D. DOMESTIC WATER SUPPLY ASSEMBLY, CHROME FINISH TUBING WITH ANGLE SHUT OFF VALVES.

E. P & T RELIEF LINES COPPER PIPE AND FITTINGS.

F. DRAIN PAN LINES, DWV PVC AND FITTINGS.

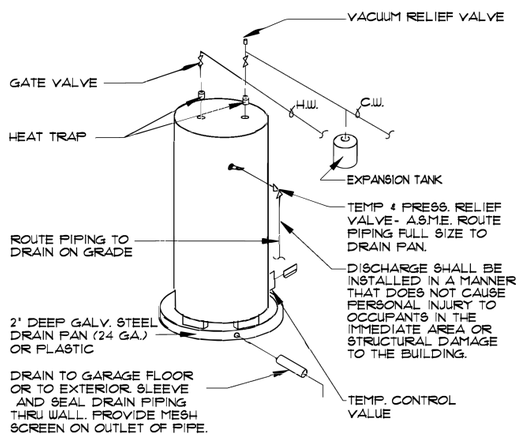
5. ALL AUTOMATIC ELECTRIC WATER HEATERS SHALL MEET THE STANDARDS OF THE LATEST ENERGY EFFICIENCY CODE.
6. VALVES, DOMESTIC WATER VALVES SHALL BE OF BRONZE BODY, SWEAT ENDS.
7. HOSE BIBS, SHALL BE ¾" ROUGH BRASS CONSTRUCTION WITH SHUT OFF VALVE AND VACUUM BREAKER.
8. ALL OUTDOOR FLOOR CLEAN OUTS SHALL BE TERMINATED UP TO GRADE AND SHALL BE MARKED.
9. CLEANOUTS SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK. AS PER SECTION 108.3.4 FBCP
10. CONTRACTOR SHALL PROVIDE MAINTENANCE FREE MECHANICAL SHOCK ARRESTORS AT ALL FIXTURES WITH QUICK CLOSING VALVES.
11. VENT SYSTEMS USING AIR ADMITTANCE VALVES SHALL COMPLY WITH THIS SECTION. INDIVIDUAL AND BRANCH-TYPE AIR ADMITTANCE VALVES SHALL CONFORM TO ASSE 1050.
12. THE FLOW VELOCITY OF THE WATER DISTRIBUTION SYSTEM SHALL BE CONTROLLED TO REDUCE THE POSSIBILITY OF WATER HAMMER A WATER HAMMER ARRESTOR SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS, WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
13. BATHTUB, SHOWER AND WHIRLPOOL BATHTUB VALVES. THE HOT WATER SUPPLIED TO BATHTUBS AND WHIRLPOOL BATHTUBS SHALL BE LIMITED TO A MAXIMUM TEMPERATURE OF 120 F (49 C) BY A WATER-TEMPERATURE-LIMITING DEVICE THAT CONFORMS TO ASSE 1010, EXCEPT WHERE SUCH PROTECTION IS OTHERWISE PROVIDED BY A COMBINATION TUB/ SHOWER VALVE IN ACCORDANCE WITH SECTION P2708.3 ACCESS PANEL FOR WHIRLPOOL BATHTUB PUMP SHALL BE PROVIDED PER FBCR 2120.L
14. DISHWASHER CONNECTION. THE COMBINED DISCHARGE FROM A SINK DISHWASHER, AND WASTE GRINDER IS PERMITTED TO DISCHARGE THROUGH A SINGLE 1- ½"(38 MM) TRAP. THE DISCHARGE PIPE FROM THE DISHWASHER SHALL BE INCREASED TO A MINIMUM OF ¾"(19MM) IN DIAMETER AND SHALL CONNECT WITH A WYE FITTING BETWEEN THE DISCHARGE OF THE FOOD-WASTE GRINDER AND THE TRAP INLET OR TO THE HEAD OF THE FOOD GRINDER. THE DISHWASHER WASTE LINE SHALL RISE AND BE SECURELY FASTENED TO THE UNDERSIDE OF THE COUNTER BEFORE CONNECTING TO THE SINK TAIL PIECE OR THE FOOD GRINDER.
15. THE CONTRACTOR SHALL FIELD VERIFY ALL INVERT ELEVATIONS AND SIZE OF EXISTING SEWER AND WATER MAINS FOR CONNECTION OF NEW SERVICES.
16 - ALL PLUMBING FIXTURES SHALL BE DETERMINED BY OWNER
17- THESE DRAWINGS ONLY PROVIDE DESIGN LOCATIONS FOR THE EQUIVALENT DEPICTED HEREIN, THE PLUMBING CONTRACTOR SHALL OBTAIN SHOP DRAWINGS/ CUT SHEETS FROM THE EQUIVALENT SUPPLIER IN ORDER TO PLACE ROUGH-IN LINES AT OPTIMUM LOCATIONS FOR THE SPECIFIED EQUIPMENT.
18- THE PLUMBING CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL REQUIRED EQUIVALENT, UNLESS OTHERWISE NOTED.
19- NECESSARY, OBVIOUSLY REQUIRED PLUMBING ITEMS THAT ARE NOT SHOWN ON THESE DRAWINGS DOES NOT RELIEVE THE PLUMBING CONTRACTOR FROM THEIR RESPONSIBILITY OF INSTALLING A COMPLETELY OPERATING AND SAFE PLUMBING SYSTEM APPLICABLE w/ ALL CODES AS PREVIOUSLY DESCRIBED IN NOTE 1 ABOVE.
20-PIPE PROTECTION AS PER SECTION 305 FBCP ANY PIPE THAT PASSES UNDER A FOOTING OR THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE PIPE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL PIPES PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM THE LIME AND ACID OF CONCRETE, CINDER, OR OTHER CORROSIVE MATERIAL. SHEATHING OR WRAPPING SHALL ALLOW FOR MOVEMENT INCLUDING EXPANSION AND CONTRACTION OF FIFING MINIMUM WALL THICKNESS OF MATERIAL SHALL BE 0.010 INCH

PLUMBING LEGEND:

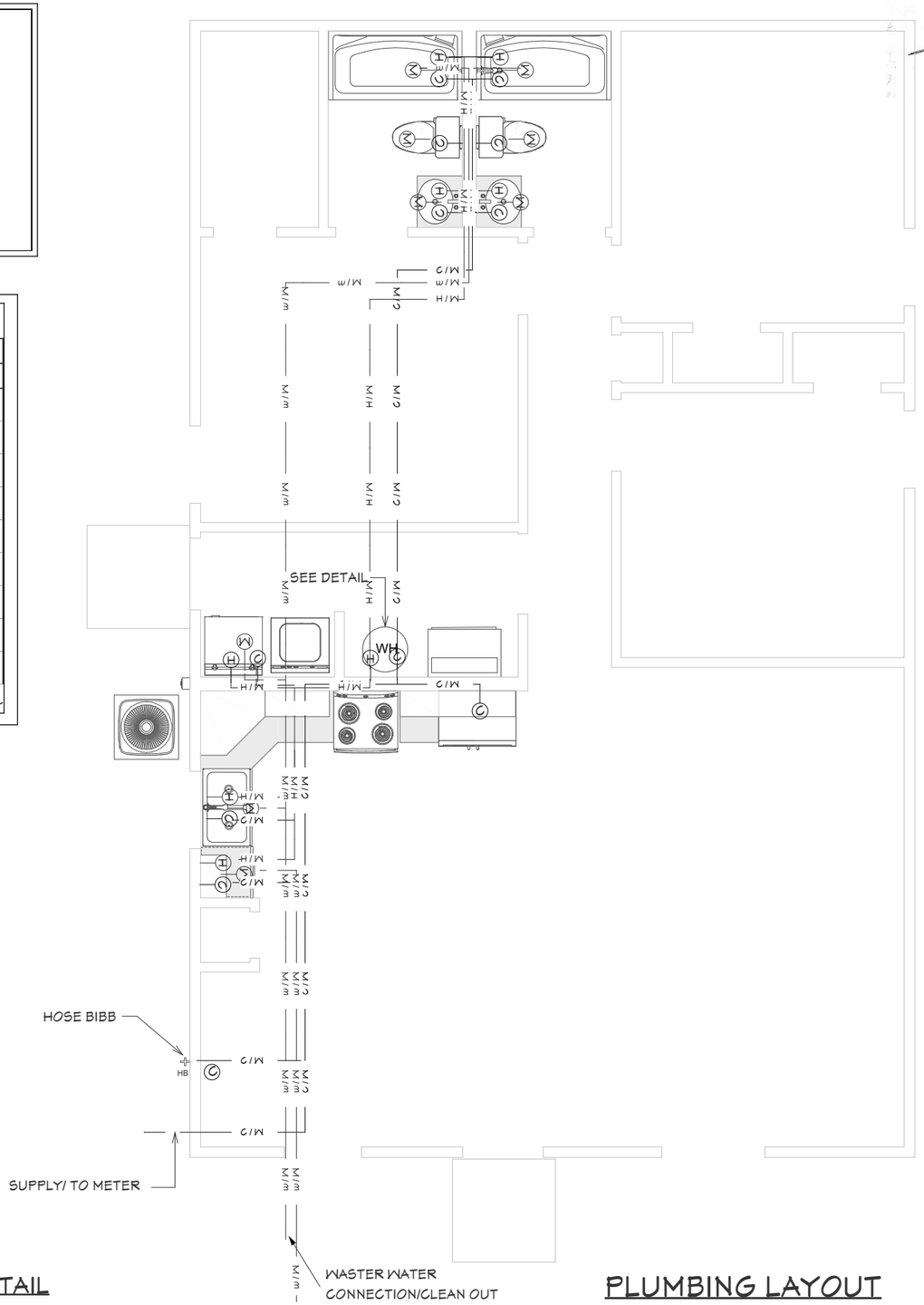
C	COLD WATER ACCESS
H	HOT WATER ACCESS
W	WASTE WATER ACCESS
C / W	COLD WATER LINE
H / W	HOT WATER LINE
W / W	WASTE WATER

PLUMBING SCHEDULE

NO.	DESCRIPITION	WASTE	WATER	
			COLD	HOT
WC	WATER CLOSET	3"	1/2"	—
LAV.	LAVATORY	1 1/4"	1/2"	1/2"
TUB/ SHWR	TUB / SHOWER	1 1/2"	1/2"	1/2"
G.T.	GARDEN TUB	1 1/2"	1/2"	1/2"
SHWR	SHOWER	2"	1/2"	1/2"
SINK	KITCHEN SINK	2"	1/2"	1/2"
W	CLOTHES WASHER	2"	1/2"	1/2"
DW	DISH WASHER	1" IW	—	1/2"
REF.	REFRIGERATOR	—	1/2"	—
PROVIDE ANTI-SCALD VALVE.		PROVIDE MECH SHOCK ABSORBER TO EA. SUPPLY		



TYPICAL WATER HEATER DETAIL



PLUMBING LAYOUT

SCALE: 3/16" = 1'-0"

REVISION TABLE

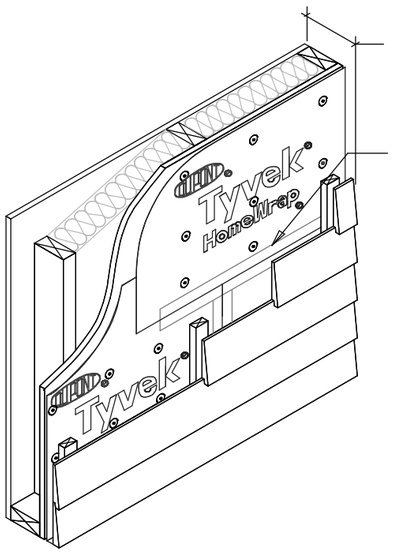
NO.	DESCRIPTION	DATE

PLUMBING/FIXTURE LAYOUT
NEW SINGLE FAMILY
167TH ROAD-(14-035-12E-10270-003000)
LIVE OAK, FLORIDA 32060

MARTIN ENGINEERING, LLC.
450 STATE RD. N #106-387
JACKSONVILLE, FL 32259
904-472-1454
FL CA#32027

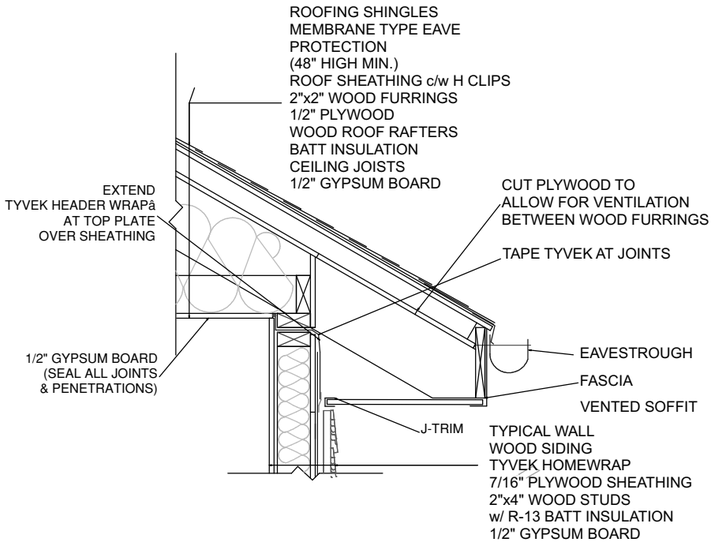
PROJ.#: 22-880
DESIGNED:KCM
DRAWN: KCM
SCALE: NOTED
DATE:12/2/2022
SHEET NUMBER
A-6

WEATHER BARRIER



TYPICAL WALL ISOMETRIC

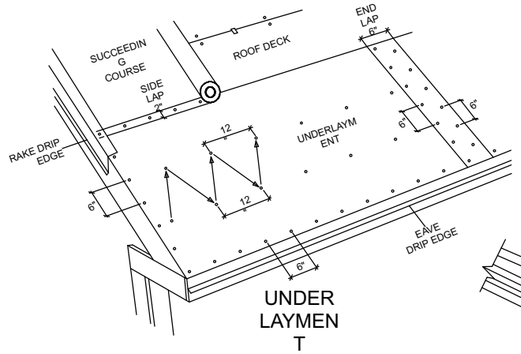
RESIDENTIAL WOOD FRAME STRUCTURE w/ WOOD SIDING (COOLING CLIMATE)



ROOF/ WALL INTERFACE DETAIL

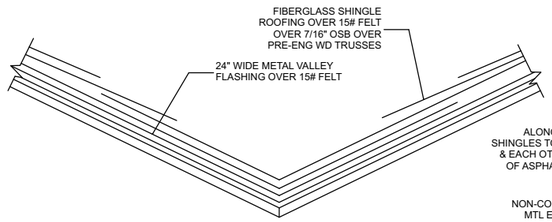
RESIDENTIAL WOOD FRAME STRUCTURE w/ WOOD SIDING (COOLING CLIMATE)

ROOFING



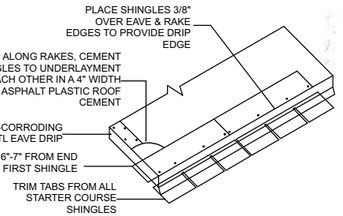
UNDER LAYMEN T

VALLEY SHINGLE INSTALLATION:
INSTALL SHINGLES USING WEAVE METHOD
1. EXTEND (1) FULL END SHINGLE MIN. 12" PAST CENTER LINE OF VALLEY. SEE MANUF WRITTEN INSTRUCTION FOR ADDITIONAL INSTALLATION INFORMATION
2. DO NOT NAIL 6" MIN. FROM VALLEY CENTER LINE

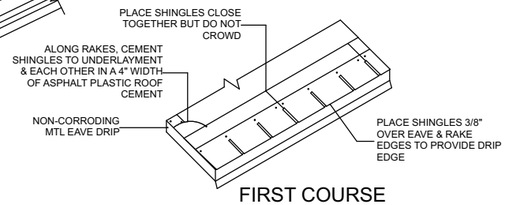


VALLEY FLASHING DETAIL

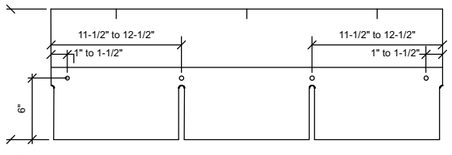
N.T.S.



STARTER COURSE

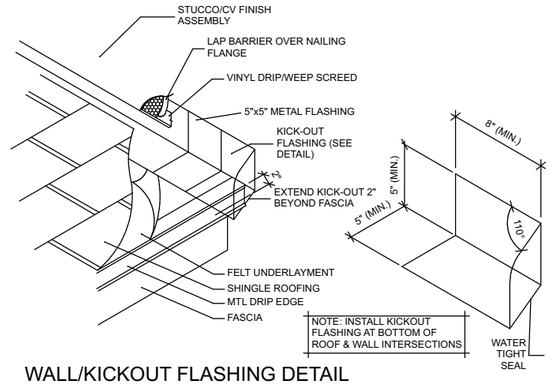


FIRST COURSE



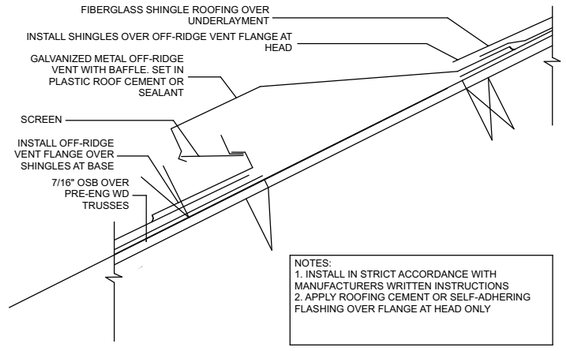
SHINGLE NAILING

NOTE: DETAILS ARE FOR SLOPES OF 3:12 OR GREATER, FOR SLOPES BELOW 3:12, ALL ROOFING UNDERLAYMENT SHALL BE SELF ADHERING SHEET MEMBRANE APPROVED BY THE SHINGLE MANUFACTURER FOR USE ON LOW SLOPE ROOFING PROJECTS



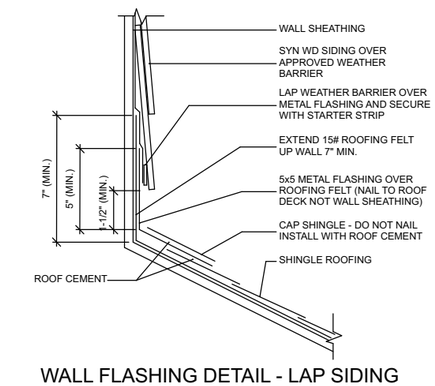
WALL/KICKOUT FLASHING DETAIL

N.T.S.



OFF-RIDGE VENT FLASHING DETAIL

N.T.S.



WALL FLASHING DETAIL - LAP SIDING

N.T.S.

KEVIN C. MARTIN
LICENSE
No 80359
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REVISION TABLE

NO	DESCRIPTION	DATE

FLASHING DETAILS
NEW SINGLE FAMILY
16TTH ROAD-(14-05S-12E-10270-003000)
LIVE OAK, FLORIDA 32060

MARTIN ENGINEERING, LLC.
450 STATE RD. N #106-387
JACKSONVILLE, FL 32259
904-472-1454
FL CA#32027

PROJ.#: 22-880
DESIGNED:KCM
DRAWN: KCM
SCALE: NOTED
DATE:12/2/2022
SHEET NUMBER
A-7

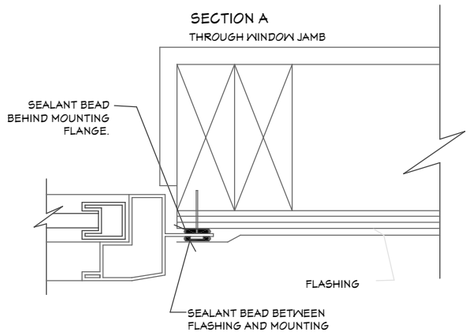
FLASHINGS FOR EXT. OPENINGS

STEPS

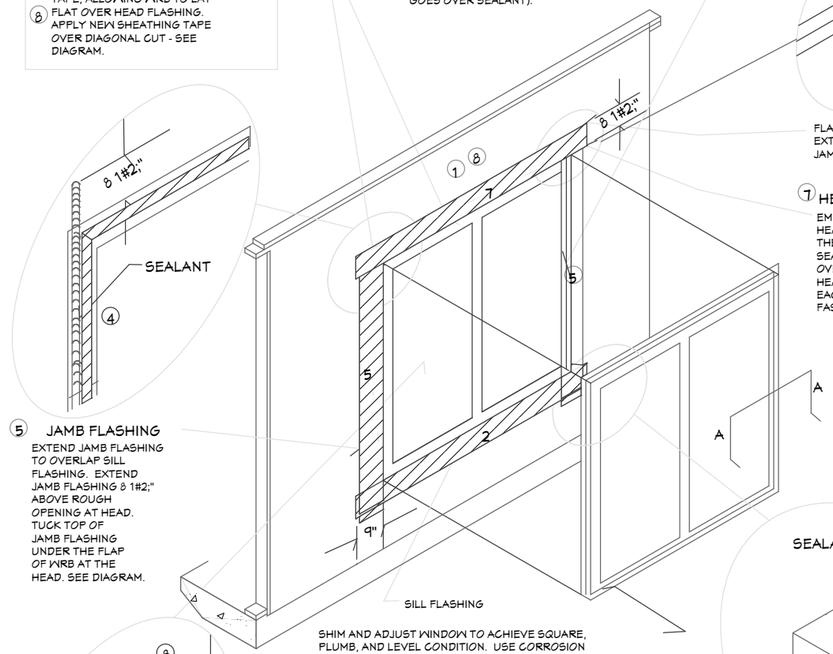
1. IN WATER SHEDDING FASHION, STARTING AT THE BASE OF THE WALL & WORKING TOWARDS THE TOP, INSTALL THE WRB TO THE FACE OF THE SHEATHING.
2. APPLY SILL FLASHING
3. APPLY BEAD OF SEALANT AT BACK OF WINDOW FLANGE & SET WINDOW USING PAN HEAD SCREWS TO FACILITATE INSPECTION. APPLY BEAD OF SEALANT AT SIDE JAMBS. EXTEND 8 1#2;"
4. APPLY JAMB FLASHING
   APPLY BEAD OF SEALANT AT HEAD
5. APPLY HEAD FLASHING
6.
7. REMOVE PREVIOUSLY APPLIED TAPE, ALLOWING WRB TO LAY
8. FLAT OVER HEAD FLASHING. APPLY NEW SHEATHING TAPE OVER DIAGONAL CUT - SEE DIAGRAM.

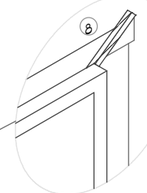
SEAL THE WINDOW FRAME TO OPENING. APPLY A 3#8;" NOM. DIA. TO THE BACKSIDE (INTERIOR) OF THE WINDOW FLANGE, IN LINE WITH ANY PRE-PUNCHED HOLES OR SLOTS.

SECTION A
THROUGH WINDOW JAMB



5 JAMB FLASHING
APPLY CONT. SEAL TO THE MOUNTING FLANGES AT THE TOP (HEAD) AND SIDES (JAMBS) OF WINDOW. EXTEND SEALANT AT JAMBS 8 1#2;" ABOVE THE R.O. AT HEAD. EMBED JAMB FLASHING INTO SEALANT AND FASTEN IN PLACE. (FLASHING GOES OVER SEALANT).



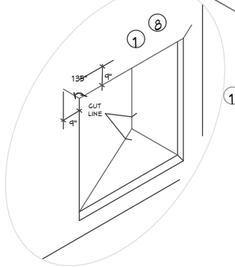


SECURE WRB AT HEAD

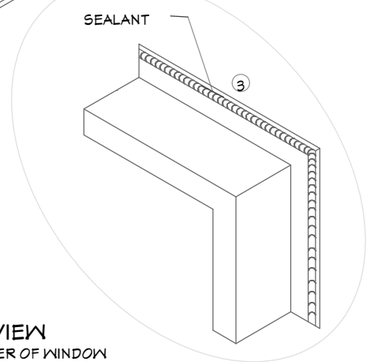
FLASHING AT HEAD EXTENDS 1" BEYOND JAMB FLASHING.

7 HEAD FLASHING
EMBED BOTTOM OF THE HEAD FLASHING AGAINST THE PREVIOUSLY APPLIED SEALANT (FLASHING GOES OVER SEALANT). EXTEND HEAD FLASHING BEYOND EACH JAMB FLASHING. FASTEN IN PLACE.

5 JAMB FLASHING
EXTEND JAMB FLASHING TO OVERLAP SILL FLASHING. EXTEND JAMB FLASHING 8 1#2;" ABOVE ROUGH OPENING AT HEAD. TUCK TOP OF JAMB FLASHING UNDER THE FLAP OF WRB AT THE HEAD. SEE DIAGRAM.



1 WEATHER RESISTANT BARRIER (WRB)
AT A 45 DEGREE ANGLE, CAREFULLY CUT THE BARRIER ON A DIAGONAL. GENTLY RAISE THE TOP EDGE OF THE BARRIER UP AND TAPE THE TOP CORNERS AND CENTER TO THE EXTERIOR WRB SURFACE ABOVE.



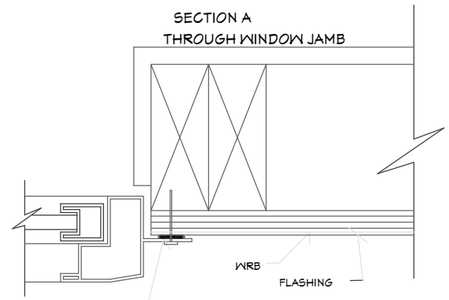
INTERIOR VIEW
TOP LEFT CORNER OF WINDOW

WINDOW INSTALLATION (METHOD A-1)
WEATHER RESITIVE BARRIER (WRB) APPLIED PRIOR TO THE WINDOW INSTALLATION. FLASHING APPLIED OVER THE FACE OF THE MOUNTING FLANGE.

STEPS

1. IN WATER SHEDDING FASHION, STARTING AT THE BASE OF THE WALL & WORKING TOWARDS THE TOP, INSTALL THE WRB TO THE FACE OF THE SHEATHING.
2. APPLY SILL FLASHING
   APPLY JAMB FLASHING
3. APPLY BEAD OF SEALANT AROUND THE PERIMETER OF THE BACK SIDE (INTERIOR SURFACE) OF WINDOW MOUNTING FLANGE. IMMEDIATELY INSTALL WINDOW USING PAN HEAD SCREWS TO FACILITATE INSPECTION. APPLY BEAD OF SEALANT
4. ACROSS THE FACE OF MOUNTING FLANGE AT HEAD APPLY HEAD FLASHING
5.
6.
7. REMOVE PREVIOUSLY APPLIED TAPE, ALLOWING WRB TO LAY
8. FLAT OVER HEAD FLASHING. APPLY NEW SHEATHING TAPE OVER DIAGONAL CUT - SEE DIAGRAM.

SECTION A
THROUGH WINDOW JAMB



SEALANT BEAD BETWEEN MOUNTING FLANGE AND FLASHING.

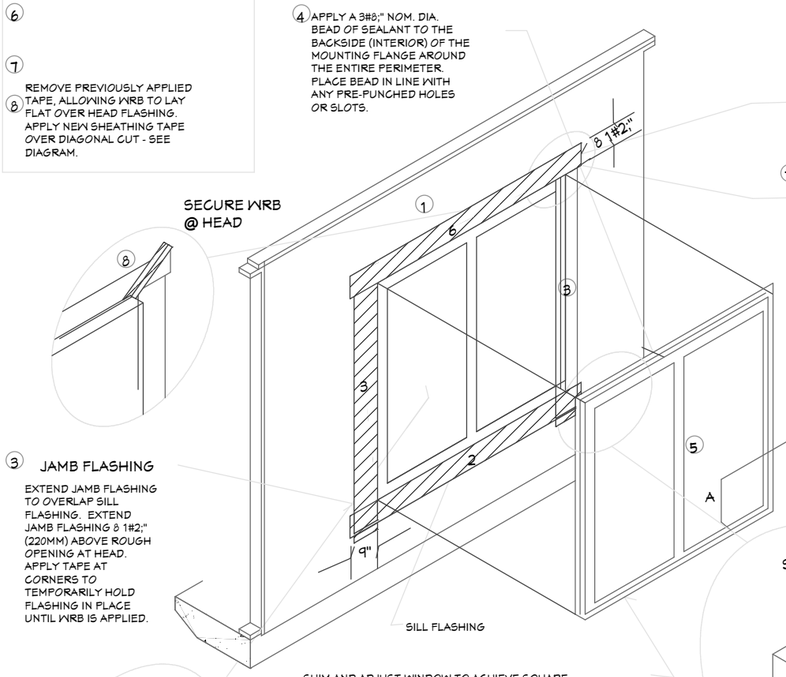
AFTER INSTALLATION
SEAL ALL CORNERS OF MECHANICALLY JOINED FRAMES TO SEAL FRAME SEAM JUNCTURE.

4 APPLY A 3#8;" NOM. DIA. BEAD OF SEALANT TO THE BACKSIDE (INTERIOR) OF THE MOUNTING FLANGE AROUND THE ENTIRE PERIMETER. PLACE BEAD IN LINE WITH ANY PRE-PUNCHED HOLES OR SLOTS.

FLASHING AT HEAD EXTENDS 1" BEYOND JAMB FLASHING.

7 HEAD FLASHING
APPLY A CONT. SEAL ALONG MOUNTING FLANGE AT THE HEAD. FLASHING GOES OVER MOUNTING FLANGE. EMBED BOTTOM OF HEAD FLASHING AGAINST SEALANT (FLASHING GOES OVER SEALANT). EXTEND HEAD FLASHING BEYOND EACH JAMB FLASHING. FASTEN IN PLACE.

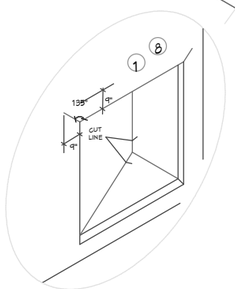
SECURE WRB @ HEAD



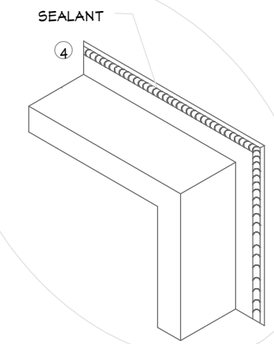
3 JAMB FLASHING
EXTEND JAMB FLASHING TO OVERLAP SILL FLASHING. EXTEND JAMB FLASHING 8 1#2;" (220MM) ABOVE ROUGH OPENING AT HEAD. APPLY TAPE AT CORNERS TO TEMPORARILY HOLD FLASHING IN PLACE UNTIL WRB IS APPLIED.

SILL FLASHING

SHIM AND ADJUST WINDOW TO ACHIEVE SQUARE, PLUMB, AND LEVEL CONDITION. USE CORROSION RESISTANT FASTENERS. FASTEN WINDOWS PER WINDOW MANUFACTURER FASTENER SPECIFICATIONS.



1 WEATHER RESISTANT BARRIER (WRB)
AT A 45 DEGREE ANGLE, CAREFULLY CUT THE BARRIER ON A DIAGONAL. GENTLY RAISE THE TOP EDGE OF THE BARRIER UP AND TAPE THE TOP CORNERS AND CENTER TO THE EXTERIOR WRB SURFACE ABOVE.



INTERIOR VIEW
TOP LEFT CORNER OF WINDOW

WINDOW INSTALLATION (METHOD B-1)
WEATHER RESITIVE BARRIER (WRB) APPLIED PRIOR TO THE WINDOW INSTALLATION. FLASHING APPLIED BEHIND THE MOUNTING FLANGE.

REVISION TABLE

NO	DESCRIPTION	DATE

FLASHING DETAILS
NEW SINGLE FAMILY
167TH ROAD-(14-035-12E-10270-003000)
LIVE OAK, FLORIDA 32060

MARTIN ENGINEERING, LLC.
450 STATE RD. N #106-387
JACKSONVILLE, FL 32254
904-472-1459
FL CA#32027

PROJ.#: 22-880
DESIGNED:KCM
DRAWN: KCM
SCALE: NOTED
DATE:12/2/2022
SHEET NUMBER
A-8

GENERAL STRUCTURAL NOTES

THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOBSITE PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT ALL DISCREPANCIES THE DRAWINGS AND EXISTING CONDITION TO THE ENGINEER PRIOR TO COMMENCING WORK.

DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE, EXCEPT AS OTHERWISE INDICATED. ADAPT REQUIREMENTS OF DETAILS, SECTIONS, PLANS, AND NOTES AT LOCATIONS WHERE CONDITIONS ARE SIMILAR.

DIMENSIONS INDICATED ON THE DRAWINGS IN REFERENCE TO EXISTING CONDITIONS ARE THE BEST AVAILABLE DATE OBTAINABLE, BUT ARE NOT GUARANTEED. BEFORE PROCEEDING WITH ANY WORK DEPENDENT ON THE DATA INVOLVED, THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS, GRADES, LINES, LEVELS, OR OTHER CONDITIONS OF LIMITATIONS AT THE SITE TO AVOID CONSTRUCTION ERRORS. IF ANY WORK IS PERFORMED BY THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS PRIOR TO ADEQUATE VERIFICATION OF APPLICABLE DATA, AT RESULTANT EXTRA COST FOR ADJUSTMENT OR WORK AS REQUIRED TO CONFORM TO EXISTING LIMITATIONS, SHALL BE ASSUMED BY THE CONTRACTOR WITHOUT REIMBURSEMENT OR COMPENSATION BY THE OWNER.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES PRIOR TO EXCAVATION FOR BUILDING FOUNDATIONS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN FOUNDATIONS AND BURIED UTILITIES.

CODE REQUIREMENTS:

THE BUILDING STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE **2020 FLORIDA BUILDING CODE 7TH EDITION**, OTHER CODES IMPLEMENTED FOR DESIGN INCLUDE: ASCE7-16, ACI 315/318/530, NDS 2018, APA, A.I.S.C., ANSI. FOLLOW ALL APPLICABLE PROVISIONS OF THE FLORIDA BUILDING CODE AND OTHER RELATED CODES FOR ALL PHASES OF CONSTRUCTION.

TEMPORARY CONDITIONS:

THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS ON INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER FINAL CONFIGURATION ONLY.

FOUNDATIONS:

FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF ON COMPACTED FILL. NO GEOTECHNICAL REPORTS AND/OR IN-SITU SOIL DATA WAS GIVEN TO THE STRUCTURAL ENGINEER PRIOR TO DESIGN. THE BEARING CAPACITY USED FOR DESIGN IS BASED ON ALLOWABLE LOADS FROM THE 2020 FLORIDA BUILDING CODE FOR SANDY SOILS WITH NO CLAY, ORGANIC MATERIAL, OR OTHER DELETERIOUS MATERIALS THAT WOULD AFFECT DESIGN BEARING PRESSURE AND THE PERFORMANCE OF THE FOUNDATIONS.

BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION,AS WELL AS FIELD AND LABORATORY TESTS PERFORMED BY A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.

CONCRETE:

REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO THE FBC AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, AND SHALL BE AS FOLLOWS:

f'c	ABS W/C	MIN CEMENT	SLUMP	USE
2,500 PSI	0.58	470 LBS	5" +/- 1	ALL SLABS, MONOLITHIC FOOTINGS, SPREAD FOOTINGS
3,000 PSI	0.58	470 LBS	5" +/- 1	TIEBEAMS, COLUMNS, WALLS, ELEVATED SLABS

CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. FLY ASH CONFORMING TO ASTM C618, TYPE F OR TYPE C, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA. COARSE AGGREGATE SHALL CONFORM TO ASTM C33 WITH A MAXIMUM SIZE OF 3/4". FINE AGGREGATE SHALL BE CLEAN, DURABLE, NATURAL SAND CONFORMING TO ASTM C33.

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES, PROVIDING THAT THE SLUMP DOES NOT EXCEED 8".

SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE POURING. NO SLEEVE, OPENING, OR INSERT MAY BE PLACED IN BEAMS, JOISTS, OR COLUMNS UNLESS APPROVED BY THE ENGINEER. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE. WHERE INDICATED OR REQUIRED, SLOPE CONCRETE SLABS TO DRAINS SHOWN ON PLUMBING AND/OR ARCHITECTURAL DRAWINGS. ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS.

WOOD:

SAWN LUMBER SHALL BE SOUTHERN PINE #2 WITH THE ALLOWABLE FIBER STRESSES PER THE AWC NATIONAL DESIGN SPECIFICATION. ALL MANUFACTURED LUMBER SHALL BE 2.0E GLUED LAMINATED GEORGIA PACIFIC (OR EQUIV.) AND INSTALLED ACCORDING TO MANUFACTURES RECOMMENDATIONS. ALL HEADERS/BEAMS SHOULD BEAR FULLY ON POSTS AND/OR MULTI STUD GROUPS UNLESS NOTED OTHERWISE ON PLANS. CONTACT ENGINEER OF RECORD IF HEADER/BEAMS SIZE IS NOT SPECIFIED.

FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON COMPANY OR USP (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HU OF SIZE RECOMMENDED FOR MEMBER. ALL CONNECTORS SHALL BE GALVANIZED. UNLESS SHOWN OTHERWISE, INSTALL MAXIMUM SIZE AND NUMBER OF FASTENERS SHOWN IN LATEST SIMPSON CATALOG

ALL FRAMING NAILS SHALL BE COMMON NAILS AND SHALL BE OF THE SIZE AND NUMBER INDICATED ON THE DRAWINGS. MINIMUM NAILING REQ. NOT SHOWN SHALL BE AS INDICATED IN TABLE 2304.9.1 OF THE FBC. INSTALL 10d NAILS UNLESS OTHERWISE SPECIFIED ON THE PLANS OR DETAILS. BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.1. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS.

ALL ANCHOR BOLTS AND THREADED ANCHOR RODS SHALL BE IN ACCORDANCE WITH ASTM A307, GRADE A, OR ASTM F1554, GRADE 36. ANCHOR ADHESIVES SHALL BE EITHER SET (EPOXY-TIE) OR AT (ARCYLIC-TIE) BY SIMPSON STRONG-TIE AND INSTALLED ACCORDING TO THE MANUFACTURES INSTRUCTIONS. ALL DRILLED ANCHOR HOLES SHALL BE CLEANED OF ALL DEBRIS AND BRUSHED OUT PRIOR TO INSTALLATION OF ANCHOR ADHESIVE.

ALL WOOD MEMBERS EXPOSED TO EXTERIOR CONCRETE, MASONRY, WEATHER, OR EARTH SHALL BE PRESSURE TREATED LUMBER. ALL NAILS DIRECTLY EXPOSED TO WEATHER SHALL BE GALVANIZED. FASTENER REQUIREMENTS IN PRESSURE TREATED LUMBER ARE AS FOLLOWS:
- ACZA PRESERVATIVE: STANDARD CARBON STEEL.
- ACQ & MCQ PRESERVATIVE: HOT DIPPED GALVANIZED.
- SODIUM BORATE: STAINLESS STEEL CONNECTORS & FASTENERS (NOT REQ. FOR SILL PLATES OVER CONCR.& VAPOR BARRIER NOT DIRECTLY EXPOSED TO EARTH OR WEATHER)

REINFORCING STEEL:

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR AND ASTM A185 FOR SMOOTH WELDED WIRE FABRIC (WWF), UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

ALL DETAILING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL SP_66. PROVIDE CHAIRS, SPACERS, BOLSTERS, AND ITEMS IN CONTACT WITH FORMS WITH HOT_DIP GALVANIZED LEGS OR PLASTIC LEGS. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT BY FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT OPERATIONS. "WET-STICKING" OF REINFORCING IS PROHIBITED.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):
FOOTINGS 3" BOTTOM AND SIDES, 2" TOP
SLABS 3/4"
COLUMNS 1-1/2" TO TIES, 2" TOP
BEAMS 1-1/2" TO STIRRUPS
WALLS 1-1/2"

LAP SPLICE CONTINUOUS VERTICAL OR HORIZONTAL BARS IN CONCRETE MEMBERS IN ACCORDANCE WITH ACI 318, LATEST EDITION, FOR CLASS "B" TENSION LAP SPLICES. DO NOT SPLICE CONTINUOUS TOP BARS IN BEAMS AT ENDS OF CLEAR SPANS. DO NOT SPLICE CONTINUOUS BOTTOM BARS IN BEAMS IN CLEAR SPANS BETWEEN SUPPORTS. SHOW ALL SPLICES ON SHOP DRAWINGS. SPLICE LOCATIONS AND METHODS SUBJECT TO APPROVAL OF STRUCTURAL ENGINEER.

AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF (2) #5 BARS ALL FOUR SIDES AND DIAGONALLY; EXTEND THESE BARS A LAP DISTANCE OR A MINIMUM OF 24" PAST THE OPENING OR HOOK BARS IF DISCONTINUOUS.

DOWEL ALL WALLS AND COLUMNS TO FOOTINGS WITH BAR SIZE AND SPACING TO MATCH VERTICAL REINFORCING UNLESS OTHERWISE SHOWN.

DESIGN CRITERIA:

DESIGN WAS BASED ON STRENGTH AND DEFLECTION CRITERIA OF THE 2020 FLORIDA BUILDING CODE 7th EDITION. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS REDUCED PER THE 2020 FBC:

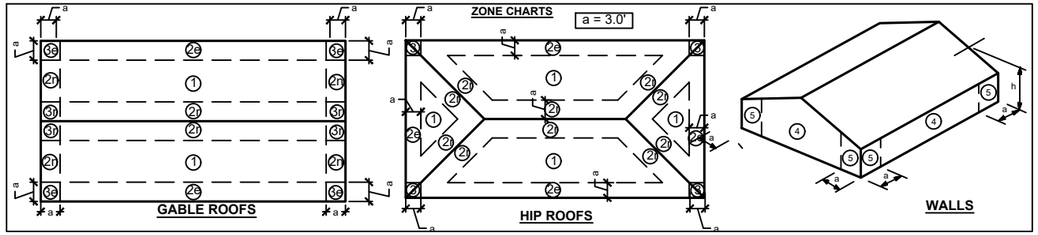
	LIVE LOAD	DEAD LOAD	DEFLECTION
ROOF:	20 PSF	15 PSF	L/240 - L/180
FLOORS:	40 PSF	10 PSF	L/360 - L/240
DECKS:	60 PSF	10 PSF	L/360 - L/240
WALLS:	PER C&C BELOW	PER ASCE7-10 TBLE. C3-1	L/240 - BRITTLE L/180 - FLEXIBLE

ULTIMATE WIND SPEED	120 MPH	PER ASCE 7-16
NOMINAL WIND SPEED:	93 MPH	PER FBC R301.2.1.3
EXPOSURE	C	PER ASCE 7-16
IMPORTANCE FACTOR	1.0	CATEGORY II
INTERNAL PRESSURE COEFF +/- 0.18	ENCLOSED (PROTECTED OPENINGS)	
COMPONENTS & CLADDING PRESSURES PER TABLE & CHARTS ON THIS PAGE.		
WIND-BORNE DEBRIS REGION	NO	

WIND PRESSURES ON WALLS & ROOFS [3]

EFFECTIVE AREA OF OPENING/ROOF ZONE	ROOF ZONES						EXTERIOR WALLS			
	ZONE 1, 2e		ZONE 2n, 2r, 3e		ZONE 3r		ZONE 4		ZONE 5	
0 TO 10	16.2	-30.9	16.2	-49.4	16.2	-58.7	21.7	-23.7	21.7	-29.1
10.1 TO 20	14.0	-30.9	14.0	-43.4	14.0	-49.4	20.7	-22.5	20.7	-27.2
20.1 TO 50	14.0	-26.3	14.0	-35.3	14.0	-36.5	19.5	-21.3	19.5	-24.6
50.1 TO 100	14.0	-22.7	14.0	-29.1	14.0	-36.5	18.5	-20.3	18.5	-22.5
100.1 TO 500	-	-	-	-	-	-	16.2	-18.1	16.2	-18.1

1. WIND PRESSURES SHOWN ABOVE ARE FOR STRUCTURES WITH A MEAN ROOF HEIGHT OF 30 FEET OR LESS WITH A ROOF PITCH BETWEEN 2/12 & 12/12 (VERT./HORIZ.). IF THE STRUCTURE IS OUTSIDE THESE PARAMETER PLEASE CONTACT THE ENGINEER.
2. THE EFFECTIVE AREA IS EQUAL TO THE LENGTH * WIDTH OF THE PROPOSED OPENING OR SPAN. THE WIDTH SHALL BE PERMITTED TO BE NOT LESS THAN $\frac{1}{3}$ OF THE SPAN LENGTH. THE EFFECTIVE AREA FOR FASTENERS SHALL NOT BE GREATER THAN THE TRIBUTARY AREA B/T FASTENERS.
3. ALL WIND PRESSURE VALUES IN POUNDS PER SQ. FT(PSF) & ARE CONSIDERED NOMINAL VALUES(ASD) IN ACCORDANCE w/ FBC TABLE R301.2(2)



ABBREVIATIONS	
BM	BEAM
CONT.	CONTINUOUS
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
DL	DEAD LOAD
EOR	ENGINEER OF RECORD
EXT.	EXTERIOR
FBC	FLORIDA BUILDING CODE (2020, 7TH EDITION)
FFE	FINISHED FLOOR ELEVATION
FTG	FOOTING
FPA	FLORIDA PRODUCT APPROVAL
INT.	INTERIOR
LG	LENGTH
LL	LIVE LOAD
LVL	LAMINATED VENEER LUMBER (2.0E, 1 $\frac{3}{4}$" WIDE MIN. U.N.O.)
MAX.	MAXIMUM
MIN.	MINIMUM
OR	"OR" MEANS THAT EITHER OPTION PROVIDED IS SUFFICE FOR THE APPLICATION
O.C.	ON CENTER SPACING
OPT	OPTIONAL
OSB	ORIENTED STAND BOARD (APA RATED MIN.)
PCF	POUNDS PER SQUARE FEET
PLYW.	PLYWOOD (APA RATED MIN.)
PSF	POUNDS PER SQUARE FEET
PSI	POUNDS PER SQUARE INCH
SS	STAINLESS STEEL
SPF	SPRUCE-PINE-FIR
SYP	SOUTHERN YELLOW PINE (No. 2 MIN.)
SW	SHEAR WALL
TYP	TYPICAL
U.N.O.	UNLESS OTHERWISE NOTED
w/	WITH
w/o	WITHOUT
W.W.M/F	WELDED WIRE MESH OR FABRIC

SHEET INDEX	
S-1	GENERAL NOTES & SPECIFICATIONS
S-2	FOUNDATION PLAN
S-3	FRAMING PLAN
S-4	TRUSS LAYOUT PLAN
S-5 - S-8	STRUCUTRAL DETAILS

SYMBOL LEGEND

WALL SECTION	VIEW DIRECTION; DETAIL/SECTION NUMBER; LOCATION OF SECTION CUT; SHEET No. WHERE SECTION IS LOCATED.
ELEVATION	DETAIL/SECTION NUMBER; VIEW DIRECTION; SHEET No. WHERE SECTION IS LOCATED.
DETAIL	DETAIL/SECTION NUMBER; SHEET No. WHERE SECTION IS LOCATED.
CALL OUT	A
CUT/MATCH LINE	
ELEVATION DATUM	
SLAB STEP (INCHES)	X

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NOTES

NEW SINGLE FAMILY
PARCEL#14-03S-12E-10270-003000-167th RD
LIVE OAK, FL 32060

PROJECT#:	22-880
DATE:	12/2/22
DRAWN:	KCM
DESIGNED:	KCM
SCALE:	AS SHOWN

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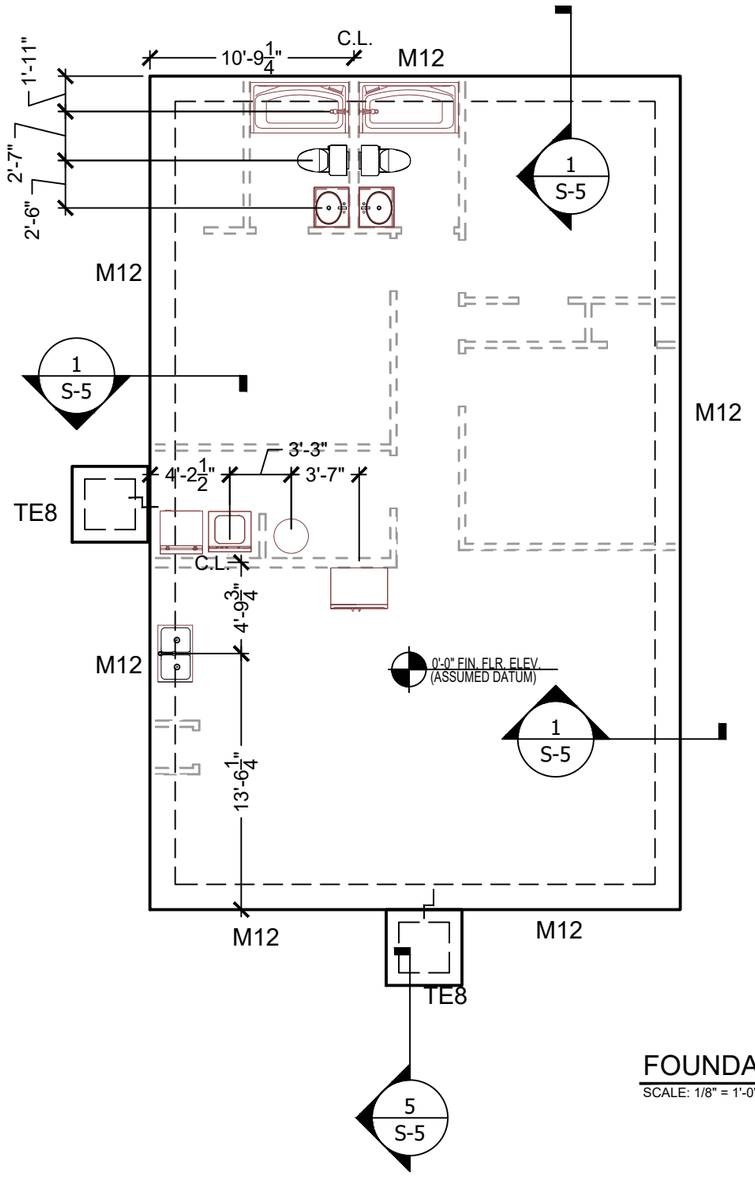
SHEET
S-1

FOUNDATION LEGEND	
	MONOLITHIC FOOTINGS
	INTERIOR PARTITION WALLS

ALL SLABS:

4" DEEP POURED CONC, SLAB W/ 6X6, #10/10 W.W.W. OR FIBERMESH REINF. OVER 6 MIL VAPOR BARRIER OVER CLEAN COMPACTED FILL. SEE DETAIL 6 ON S-5 FOR TYP. JOINT DETAILS

NOTE TO CONTRACTOR:THE PLAN SHOWN ON THIS SHEET IS FOR STRUCTURAL FOUNDATION REQUIREMENTS AND LOCATIONS ONLY. REFER TO THE ARCHITECTURAL PLANS FOR SLAB AND FOUNDATION DIMENSIONS.



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

FOUNDATION SCHEDULE

TYPE MARK	WIDTH	LENG.	DEPTH	REINFORCING		TYPE
				BOTTOM	TRANSVERSE	
M12	1' - 0"	CONT.	1' - 0"	(2) #5 CONTINUOUS	N/A	EXTERIOR MONOLITHIC
TE8	8"	CONT.	1' - 0"	(1) #5 CONTINUOUS	N/A	THICKENED EDGE

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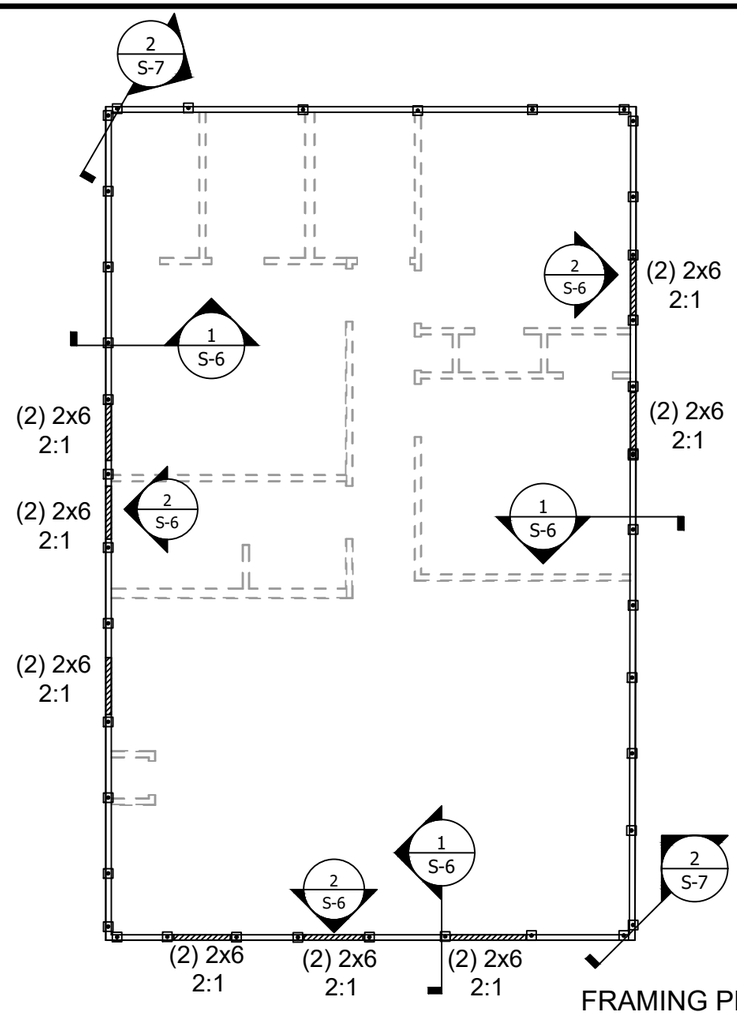
SHEET
S-2



FRAMING PLAN

SCALE: 1/8" = 1'-0"

ALL W.D. EXTERIOR WALLS NOT LABELED AS SHEARWALLS SHALL BE CONSIDERED SHEARWALL "**SW-1**" AND CONSTRUCTED ACCORDING TO THE SHEARWALL LEGEND, U.N.O.

STRUCTURAL SHEATHING LEGEND

TYPE	SHEATHING	FASTENERS	SHEATHING AREAS		
			EDGES	FIELD	GABLE ENDS
ROOF	7/16" OSB/PLY	8d RING SHANK	6" o.c.	6" o.c.	4" o.c. FIELD & EDGES 4' FROM ROOF EDGE/END WALL
FLOOR	23/32" T&G OSB/PLY	10d COMMON (GLUED & NAILED)	6" o.c.	6" o.c.	
**PORCH CEILINGS	3/8" OSB/PLY	8d COM./BOX	3" o.c.	6" o.c.	
WALLS	7/16"(MIN.) OSB/PLY	8d COM./BOX (U.N.O.)	SEE SHEAR WALL LEDGED		

1. ALL WOOD STRUCTURAL SHEATHING SHALL BE APA RATED, EXPOSURE 1.
2. STRUCTURAL WOOD PANELS NOMINAL THICKNESS & SPAN RATINGS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   - 7/16" = .437" THICKNESS - 24/16 SPAN RATING
   - 15/32" = .469" THICKNESS - 32/16 SPAN RATING
   - 19/32" = .594" THICKNESS - 40/20 SPAN RATING
   - 23/32" = .719" THICKNESS - 48/24 SPAN RATING
3. ALL ROOF SHEATHING SHALL BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO THE ROOF SUPPORTS.
4. SHEATHING/SUBSTRATES & FASTENINGS FOR EACH ROOFING TYPE SHALL BE IN ACCORDANCE w/ THE FLORIDA PRODUCT APPROVAL.
5. FASTENERS FOR ROOF SHEATHING GREATER THAN $\frac{15}{32}$" SHALL BE 8d COMMON(.131x2 $\frac{1}{2}$") RING SHANK NAILS U.N.O.
6. 2x BLOCKING FOR EDGE NAILING SHALL BE INSTALLED IF NOTED ON THE PLANS.

SHEAR WALL LEGEND

ID	SHEATHING	FASTENING				SILL ANCHORS (STUBBIES)	END STUD GROUPS
		VERTICAL EDGES	HORIZONTAL EDGES		FIELD		
			NAIL/SPACING	ROW			
SW-1	7/16"	8d AT 6"	8d AT 6"	SINGLE	8d AT 12"	48" O.C.	2

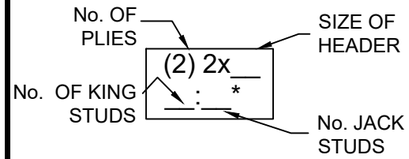
1. ALL SHEATHING MUST BE MINIMUM OF $\frac{7}{16}$" RATED OSB OR PLYWOOD & FASTENED PER THE TYPICAL DETAILS.
2. SHEATHING MAY BE INSTALLED HORIZONTALLY(U.N.O.). ALL HORIZONTAL EDGES MUST BE FULLY BLOCKED w/ 2x FRAMING LAID FLAT AGAINST BACK SIDE OF SHEATHING FOR NAILING.
3. A MINIMUM GAP OF $\frac{1}{8}$" AT SHEATHING JOINTS MUST BE MAINTAINED.
4. HOLDOWNS MUST BE PLACED AT EACH END OF SHEARWALL, U.N.O. SEE FRAMING PLAN/DETAILS FOR HOLDOWNS TYPES, LOCATIONS, & INSTALLATION SPECS.
5. ALL SILL ANCHORS(STUBBIES) SHALL BE A MIN. OF 3/8" IN DIA. w/ 3"x3"x$\frac{1}{8}$" SQUARE WASHER & NUT. PLACE ANCHORS ON EACH SIDE OF PLATE SPLICE. SEE TYPICAL ANCHOR DETAILS FOR INSTALLATION SPECS. FULL HT. ALL THREAD RODS MAY BE USED IN LIEU OF STUBBIES PROVIDED THE MINIMUM STUBBIE SPACING IN MAINTAINED.
6. EXTERIOR STUCCO FINISH REQUIRES A MIN. 15/32" RATED SHEATHING INSTALLED HORIZONTALLY w/ 2x FLAT WISE BLOCKED EDGES.
7. MINIMUM END STUDS FOR EACH SHEAR WALL SECTION ARE SHOWN IN TABLE ABOVE AND SHALL BE CONSTRUCTED PER THE TYPICAL CORNER FRAMING DETAIL.
8. SHEARWALL FASTENING SHOULD BE CONSTRUCTED PER THE TYPICAL SHEATHING FASTENING DETAILS AND NOTES.

FRAMING LEGEND

STRUCTURAL BEARING WALLS

OPENING HEADER BEAMS

SW-1 SHEARWALL SEGMENTS



3/8" THREADED ROD AT 48" O.C.(U.N.O.) w/ 3"x3"x0.229" SQ. WASHER FROM DBL. TOP PLATE TO FTG. DRILL & EPOXY w/ MIN. 7" EMBEDMENT. PLACE WITHIN 3" OF HEADER STUD GROUP,TRUSS BEARINGS, AND AT END OF EACH SHEARWALL SEGMENT WHERE SHOWN. SEE TYP. ANCHOR DETAILS (2/S-7) FOR INSTALL SPECS.

FASTENER LEGEND

NAIL	DIAMETER	LENGTH
8d COM./BOX	0.131"/0.113"	2 $\frac{1}{2}$"
8d RINGSHANK	0.113"	2 $\frac{3}{8}$"
10d x 1 $\frac{1}{2}$"	0.148"	1 $\frac{1}{2}$"
10d COMMON	0.148"	3"
10d RINGSHANK	0.120"	2 $\frac{7}{8}$"
12d COMMON	0.148"	3 $\frac{1}{4}$"
16d COMMON	0.162"	3 $\frac{1}{2}$"

1. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED ON THE PLANS.
2. INSTALL 10d NAILS IF NOT OTHERWISE NOTED ON THE PLANS.
3. INSTALL THE APPROPRIATE FASTENERS FOR PRESSURE TREATED LUMBER. SEE NOTES ON SHEET S-1.

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FRAMING PLAN

NEW SINGLE FAMILY
PARCEL#14-03S-12E-10270-003000-167th RD
LIVE OAK, FL 32060

PROJECT#:	22-880
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DRAWN:	KCM
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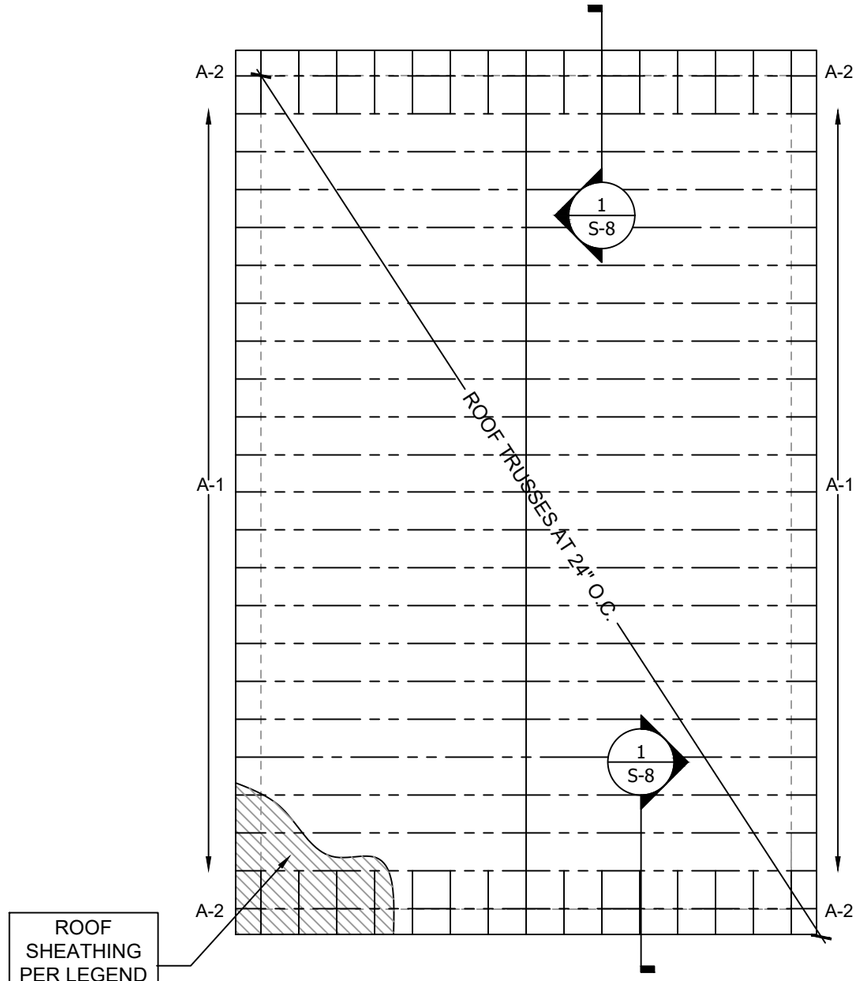
SHEET

S-3



ROOF TRUSS LAYOUT
SCALE: 1/8" = 1'-0"

TRUSS TO TOP PLATE CONNECTOR SCHEDULE

TRUSS	TRUSS END	INTERIOR BEARING POINTS		TRUSS END
	UPLIFT/CONNECTOR	UPLIFT/CONNECTOR	UPLIFT/CONNECTOR	UPLIFT/CONNECTOR
ALL TRUSSES	<615# / 1	N/A	N/A	<615# / 1

1. SIMPSON SDWC15600 TRUSS SCREWS THROUGH TOP PLATES/HEADERS INTO TRUSSES. INSTALL PER DETAILS AT S-8

** MULTI-PLY TRUSSES MUST HAVE (1) UPLIFT CONNECTOR PER TRUSS PLY UNLESS NOTED OTHERWISE.

TRUSS NOTES:

1. ALL TRUSSES SHALL BE DESIGNED AND APPROVED BY THE DELEGATED TRUSS ENGINEER AND BE LICENSED IN THE STATE OF FLORIDA.
2. ALL TRUSSES SHALL BE DESIGNED TO MEET OR EXCEED THE ULTIMATE WIND SPEED, EXPOSURE CATEGORY, AND LOADINGS SPECIFIED ON THE STRUCTURAL NOTES PAGE S-1.
3. ALL ROOF AND FLOOR TRUSS ENGINEERING SHALL MATCH THE PROVIDED LAYOUT SHOWN IN THESE PLANS. ANY VARIATIONS FROM THE PROVIDED LAYOUTS SHOULD BE REPORTED TO THE ENGINEER OF RECORD BEFORE CONSTRUCTION BEGINS.
4. TRUSSES MUST BE CAPABLE OF TRANSFERRING LATERAL LOADS TO THE STRUCTURAL LOAD BEARING WALLS SHOWN ON THE FRAMING PLAN.
5. UPLIFTS HAVE BEEN CALCULATED BY THE ENGINEER OF RECORD AND ALL CONNECTIONS FROM TRUSSES TO STRUCTURE HAVE BEEN SPECIFIED AND SHOULD BE FOLLOWED. ANY QUESTIONS AS TO THE SIZE, TYPE, OR VALUE OF A NAIL, STRAP OR CLIP SHOULD BE VERIFIED BY THE STRUCTURAL ENGINEER.
6. PERMANENT TRUSS WEB BRACING SHALL BE INSTALLED WITH THE SAME QUANTITY AND LOCATIONS SHOWN ON THE TRUSS ENGINEERING SHOP DRAWINGS. CONTINUOUS LATERAL BRACING SHALL BE IN ACCORDANCE WITH THE DETAILS
7. GYPSUM CEILING: FASTENING SHALL BE IN ACCORDANCE w/ TABLE R702.3.5 OF THE FBC.
8. TABLE 2304.9.1 OF THE FLORIDA BUILDING CODE NAILING REQUIREMENTS ARE IN ADDITION TO THE STRAPPING REQUIREMENTS.
9. PROVIDE 5/8" TYPE X GYP. BD. @ GARAGE CLG. BENEATH HABITABLE SPACE & 1/2" MIN GYP. BD. @ GARAGE SIDE WALLS & UNDERSIDE OF STAIRWAY IF USED AS ACCESSIBLE SPACE.
10. ALL TRUSS FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING SHALL BE IN ACCORDANCE WITH BCSI 1-03 MANUAL (BUILDING COMPONENT SAFETY INFORMATION) PRODUCED BY THE SBCA AND TPI.

OVER FRAMING NOTES:

1. ALL ROOF FRAMING MATERIALS SHALL BE No. 2 SOUTHERN YELLOW PINE (SYP) AT 24" O.C., U.N.O.
2. ALL ROOF RAFTERS AND COLLAR TIES TO BE A MIN. OF 2x6 No. 2 SYP. RIDGE BOARDS TO BE MIN. OF 2x8 No. 2 SYP.
3. ALL SLEEPERS TO BE A MIN. OF 2x8 No. 2 SYP FASTENED TO EACH TRUSS/RAFTER BELOW w/ (2) #10x3.5" W.D. SCREWS & WASHERS.
4. FASTEN ROOF RAFTERS TO RIDGE BOARDS AND "SLEEPERS" W/ SIMPSON A35 CLIPS, U.N.O.
5. FASTEN COLLAR TIES TO ROOF RAFTERS W/ (5) 10d NAILS AT EACH END.
6. COLLAR TIES SHALL NOT TO BE FASTENED LOWER THAN 2/3 OVERALL ROOF RAFTER HEIGHT.

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TRUSS LAYOUT PLAN

NEW SINGLE FAMILY
PARCEL#14-03S-12E-10270-003000-167th RD
LIVE OAK, FL 32060

PROJECT#:	22-880
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DRAWN:	KCM
DESIGNED:	KCM
SCALE:	AS SHOWN

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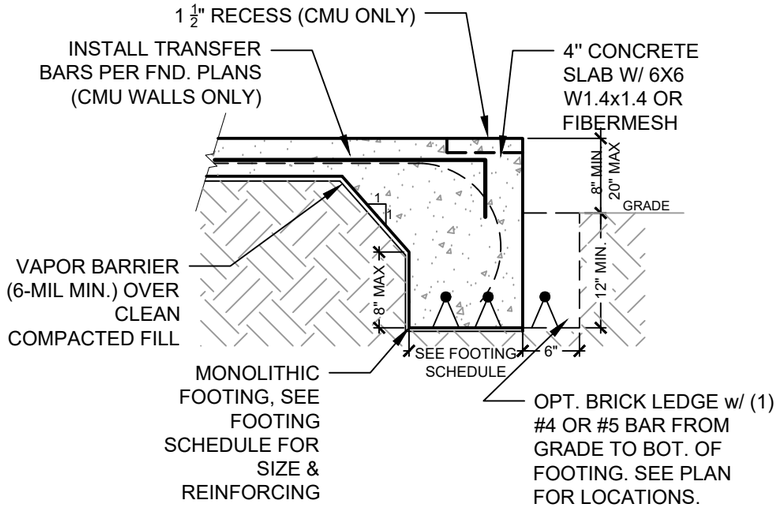
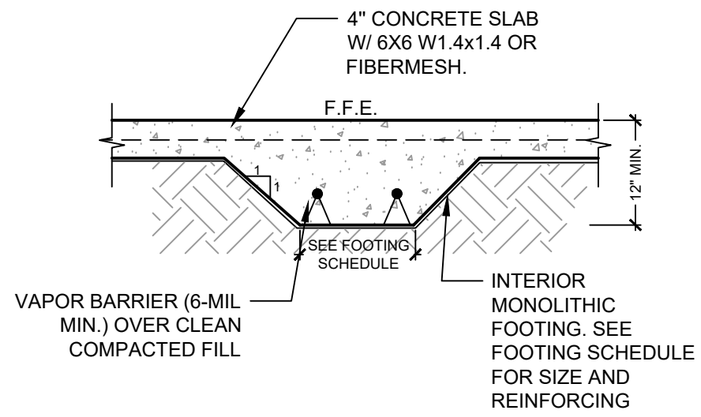
KEVIN C. MARTIN, P.E# 80359

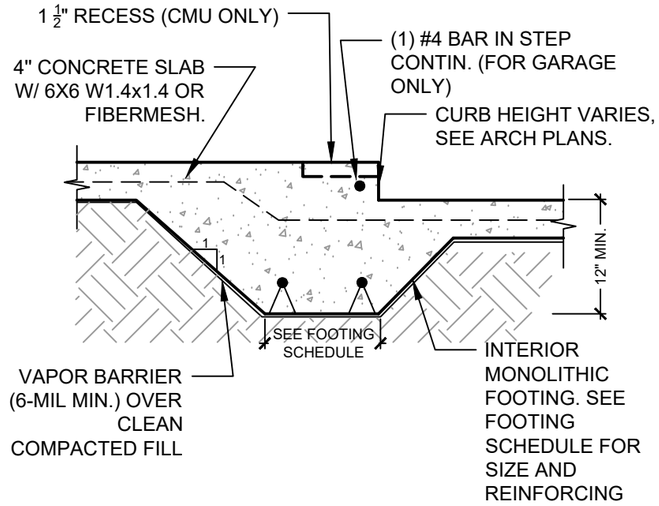
SHEET
S-4



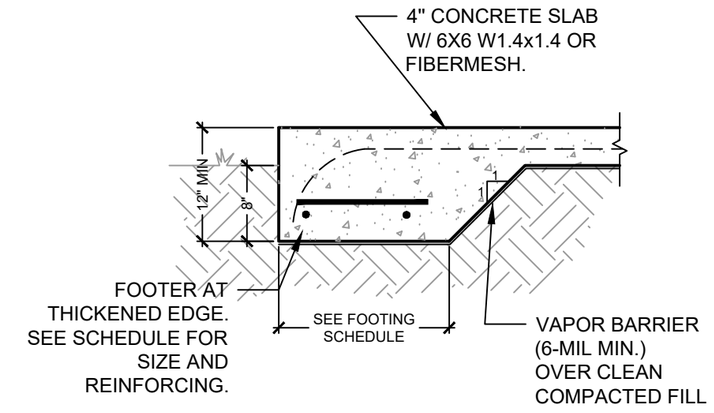
1 EXTERIOR MONOLITHIC FOOTING



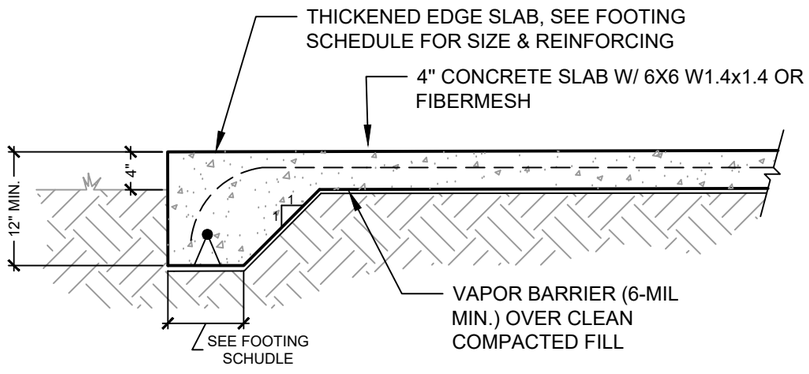
2 INTERIOR MONOLITHIC FOOTING



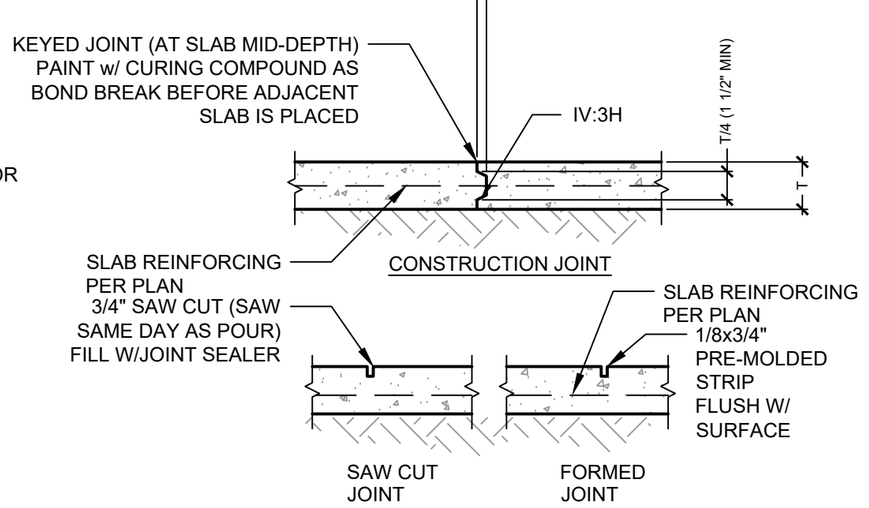
3 INTERIOR MONOLITHIC FTG.



4 SPREAD FTG. AT THICKENED EDGE



5 THICKENED EDGE SLAB



6 TYPICAL JOINT DETAILS

MARTIN ENGINEERING, LLC.
450 STATE ROAD 13 N., #106-387
JACKSONVILLE, FL 32259
904-472-1459
FL C.A# 32027

REVISIONS

No.	DATE	DESCRIPTION	APPROVED

FOUNDATION DETAILS

NEW SINGLE FAMILY
PARCEL#14-03S-12E-10270-003000-167th RD
LIVE OAK, FL 32060

PROJECT#:	22-880
DATE:	12/2/22
DRAWN:	KCM
DESIGNED:	KCM
SCALE:	AS SHOWN

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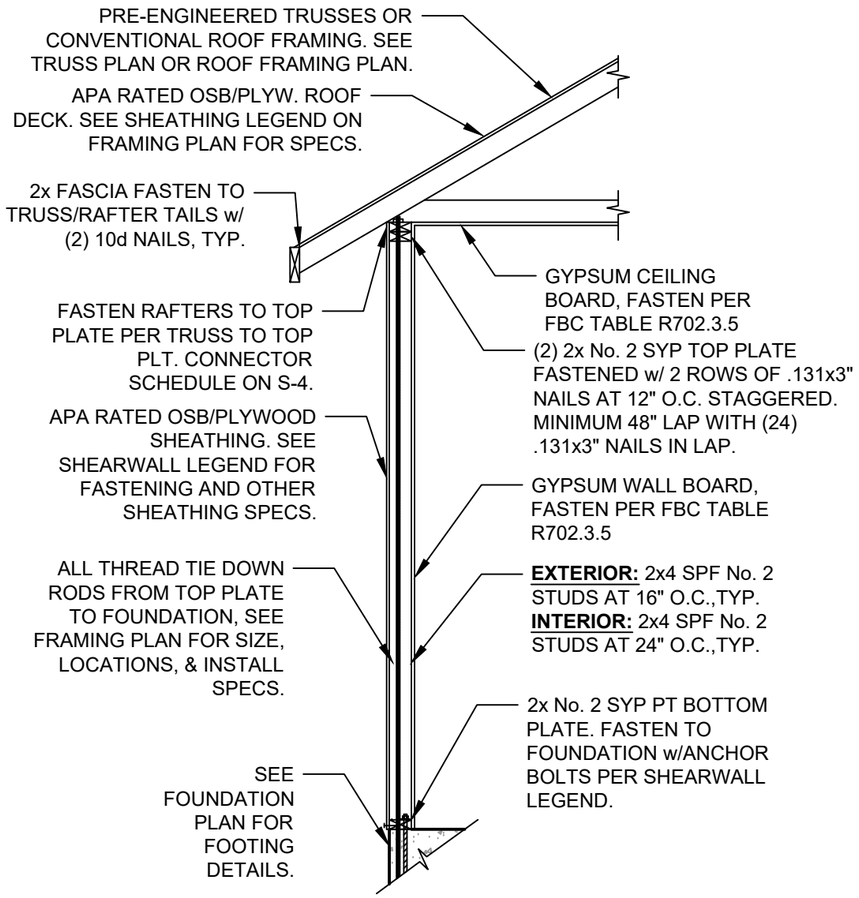
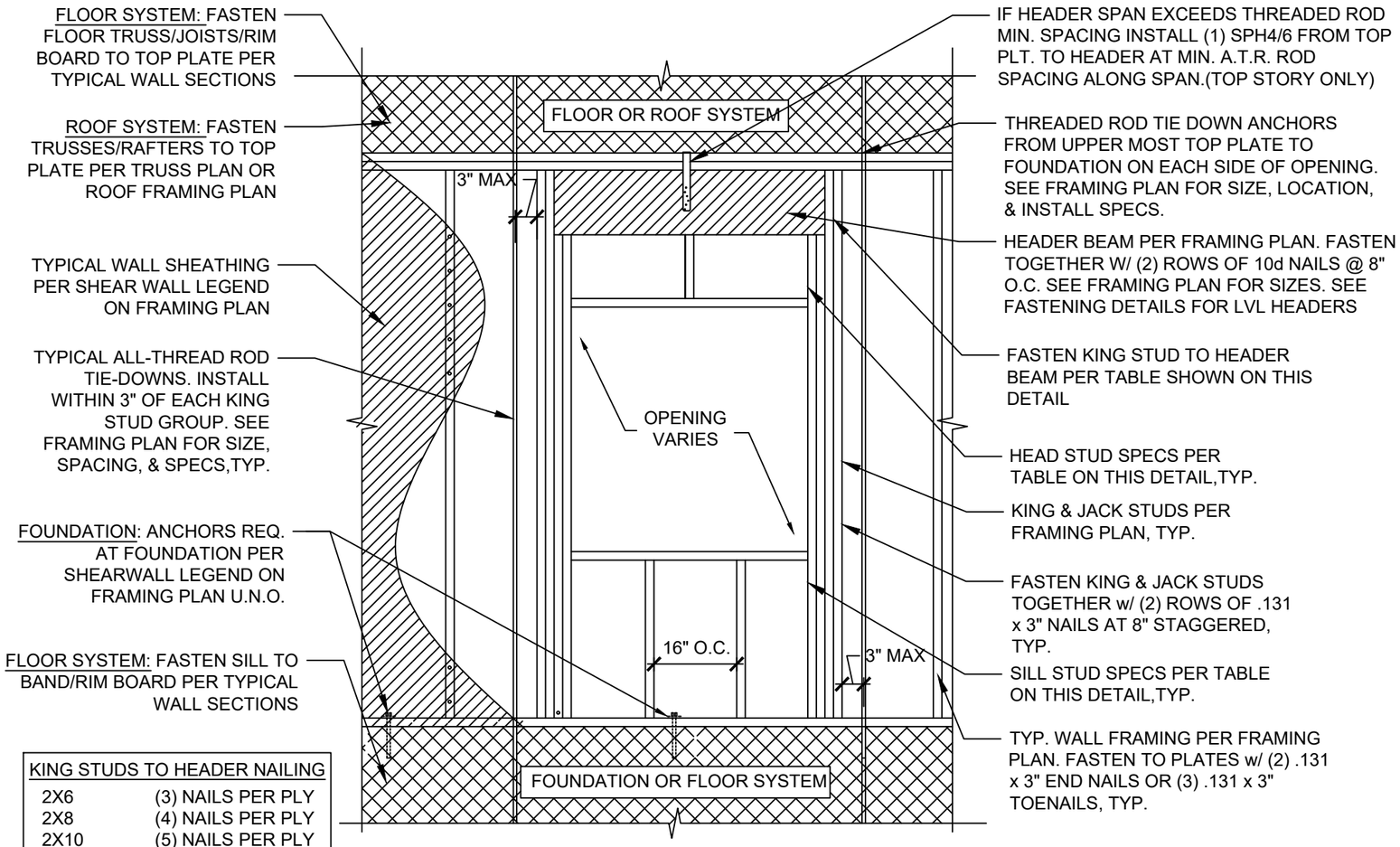
SHEET
S-5



1 1-STORY WOOD



KING STUDS TO HEADER NAILING	
2X6	(3) NAILS PER PLY
2X8	(4) NAILS PER PLY
2X10	(5) NAILS PER PLY
2X12	(6) NAILS PER PLY
9.5" LVL	(5) NAILS PER PLY
11 7/8"LVL	(6) NAILS PER PLY
14" LVL	(7) NAILS PER PLY
16" LVL	(8) NAILS PER PLY

OPENING HEAD/SILL STUD SPECS	
OPENING WIDTH	ATTACHMENT
0' - 8"	(3) .131"x3" TOE-NAILS
8' - 12'	(6) .131"x3" TOE-NAILS
12' - 18'	(2) A35 CLIPS
2-PLY HEAD/SILL STUDS: 6' - 10'	
3-PLY HEAD/SILL STUDS: 10' - 18'	

2 TYPICAL HEADER DETAIL

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FRAMING DETAILS

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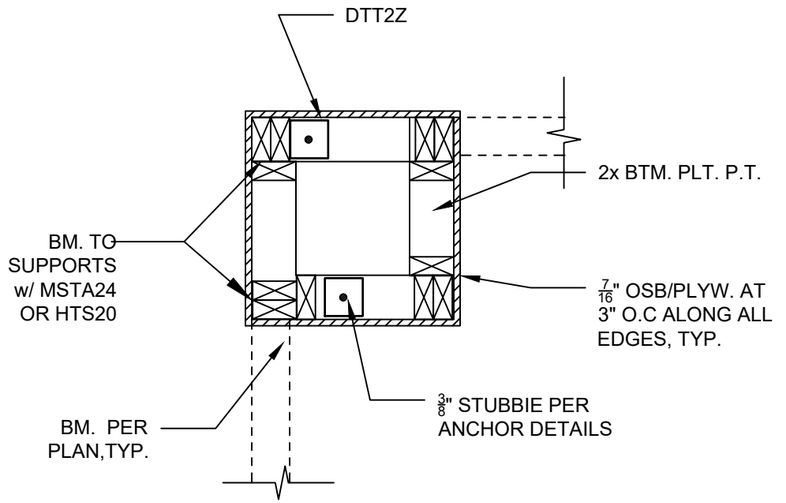
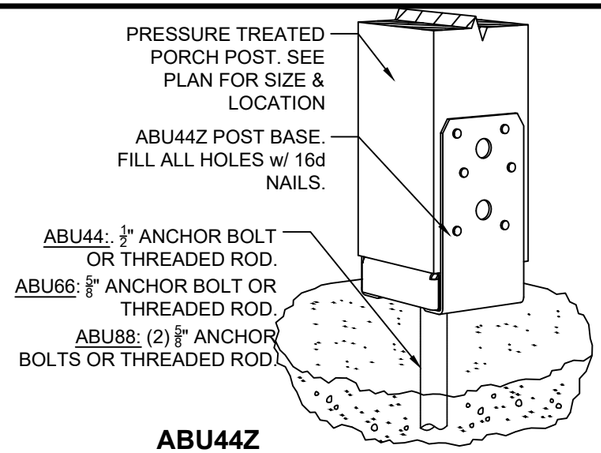
SHEET
S-6

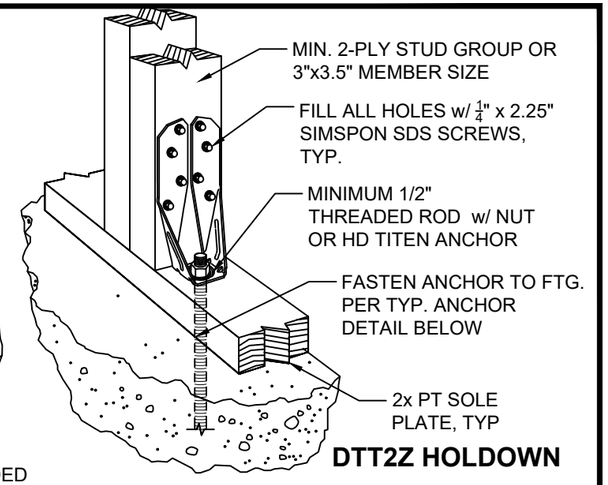


1 TYP. BOX COLUMN DETAIL

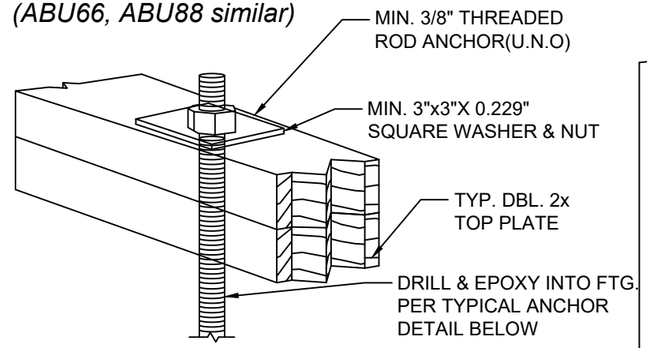
NOTE: ANY FRAMING/SHEATHING WITHIN 6" OF EXIST. GRADE SHALL BE PRESSURE TREATED PER FBC.



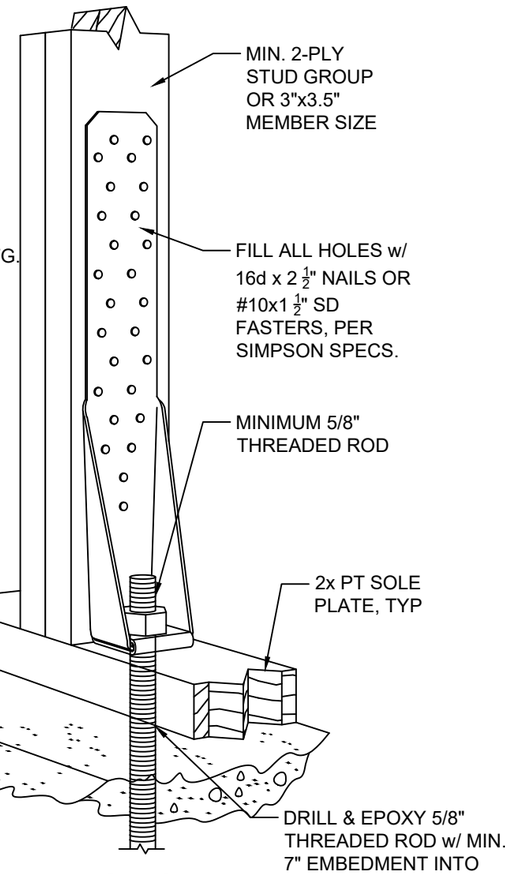
ABU44Z
(ABU66, ABU88 similar)



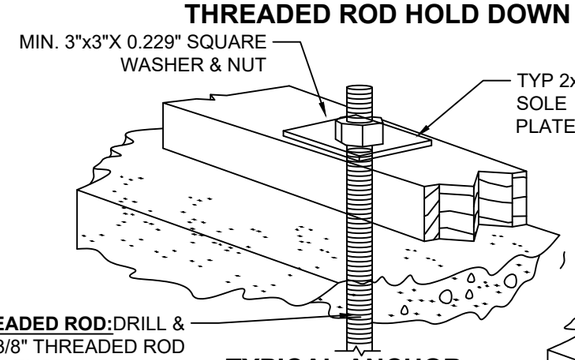
DTT2Z HOLDOWN



THREADED ROD HOLD DOWN



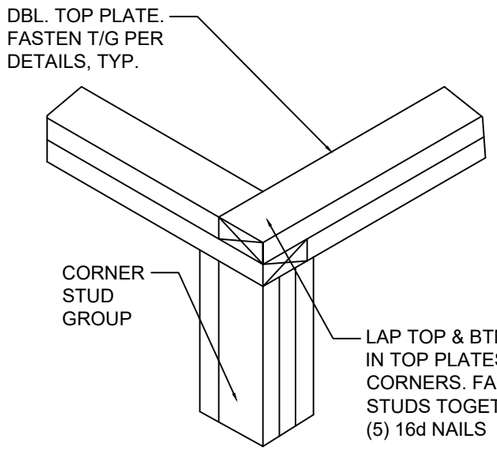
HTT5 HOLDOWN

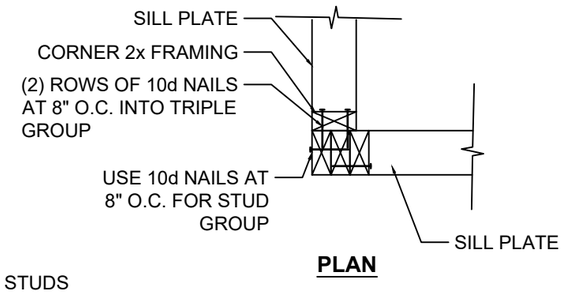


THREADED ROD: DRILL & EPOXY 3/8" THREADED ROD w/ MIN. 7" EMBEDMENT INTO FOUNDATION. OR
TITEN HD: 3/8" TITEN HD ANCHOR 8"LG.

TYPICAL ANCHOR (STUBBIE)

2 TYPICAL ANCHOR DETAILS





PLAN

NOTE: ADD (1) ADDITIONAL ROW OF NAILS AT EACH STUD FACE FOR 2X6 & 2X8 FRAMING

2 CORNER FRAMING DETAIL

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FRAMING DETAILS

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LIVE OAK, FL 32060

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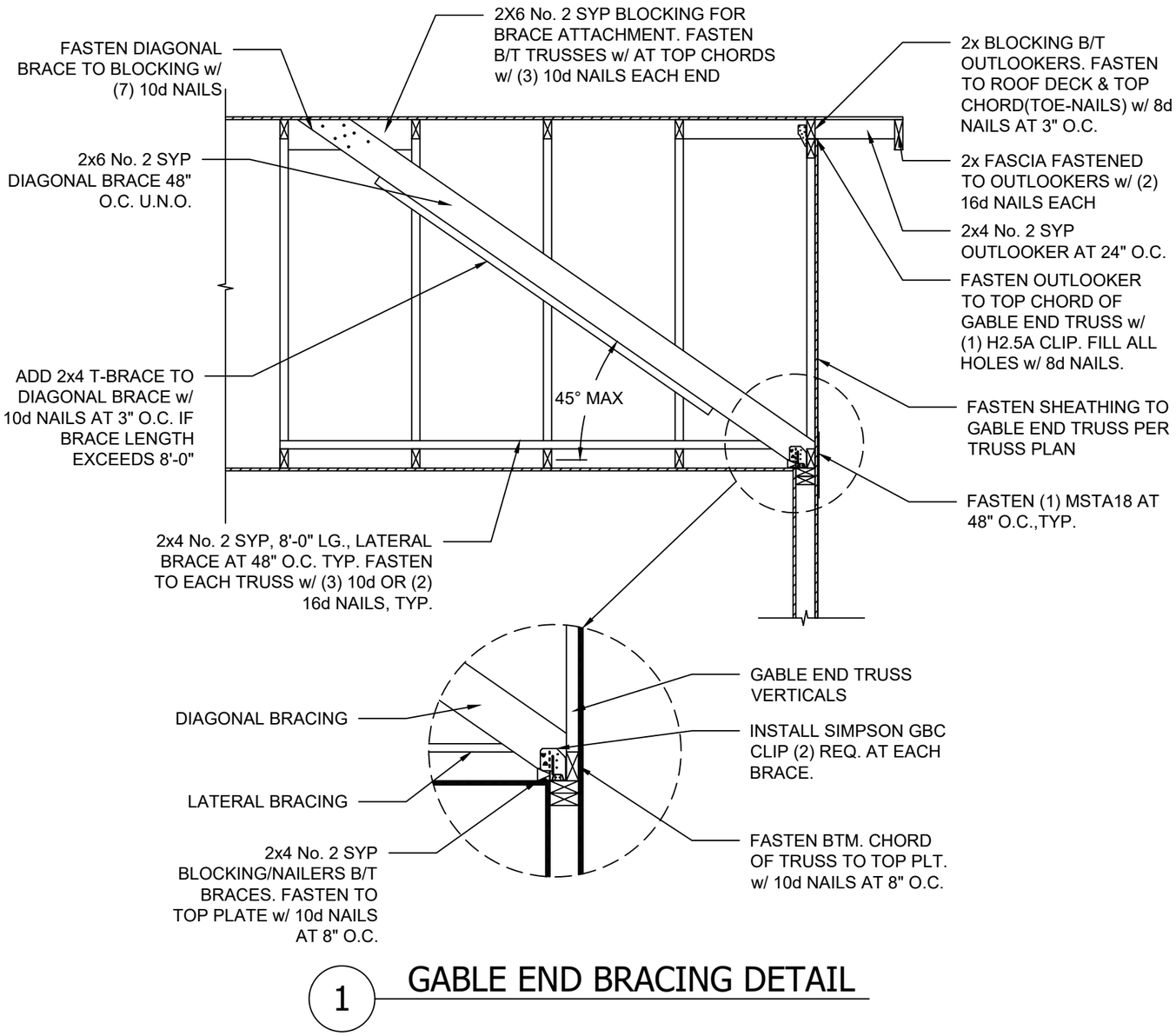
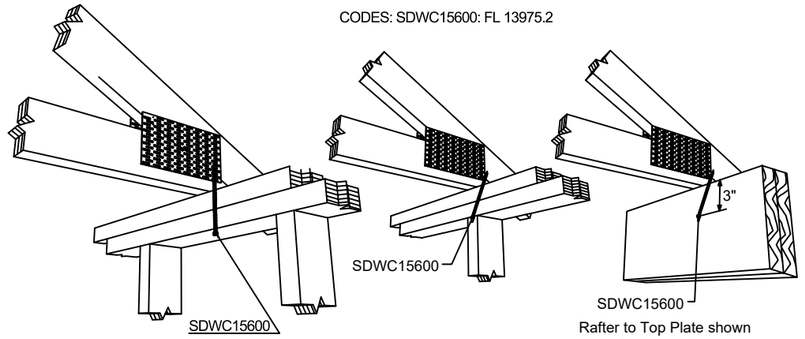
SHEET
S-7

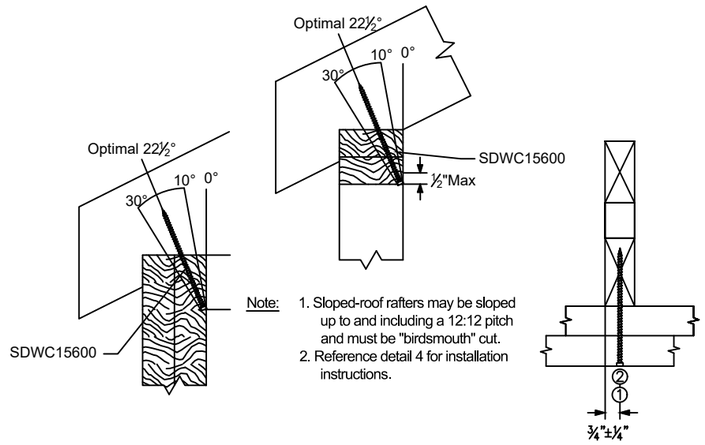


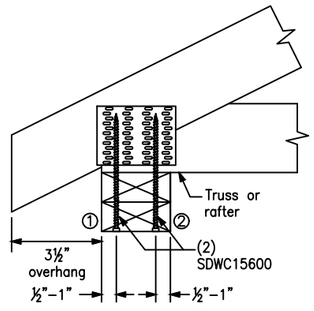
1 GABLE END BRACING DETAIL

CODES: SDWC15600: FL 13975.2



Note: Reference detail 2a for installation angle limit





DOUBLE SDWC INSTALL: CONFIGURATION B

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