



# CONSTRUCTION PLANS FOR NEW SINGLE FAMILY LOCATED AT

LOT 26 FOX HOLLOW DRIVE  
HAMPTON, FL 32044

## GENERAL NOTES:

- IT IS THE INTENT THAT THIS WORK BE IN CONFORMANCE WITH **THE 2023 FLORIDA BUILDING CODE, 8TH 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 AND SHALL INCLUDE INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- DIMENSIONS INDICATED ON THE DRAWINGS IN REFERENCE TO EXISTING CONDITIONS ARE THE BEST AVAILABLE DATA 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.
- A DESIGNATED LOCATION FOR STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT SHALL BE DETERMINED BY THE OWNER AND IDENTIFIED AT THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR PERSONNEL ARE CONFINED TO AREAS OF BUILDING NECESSARY FOR COMPLETION OF WORK. FREE ACCESS TO ALL PARTS OF THE BUILDING IS NOT ALLOWED.
- 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.
- 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.
- TERMITE PROTECTION TO BE DONE AFTER ALL EXCAVATION, BACKFILLING AND COMPACTION IS COMPLETE. ANY DISTURBED SOIL TREATMENT MUST BE RETREATED.
- TREATMENT SHALL BE PROTECTED FROM RAINFALL BY 6 MIL VAPOR BARRIER. IF RAINFALL OCCURS BEFORE BARRIER PLACEMENT, SOIL MUST BE RETREATED.
- 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:

- ALL ELECTRICAL WIRING TO BE IN ACCORDANCE WITH 2023 FLORIDA BUILDING CODE, 8TH EDITION, RESIDENTIAL AND NFPA 70 2023 NATIONAL ELECTRIC CODE (NEC).
- ALL SMOKE DETECTORS AND CARBON MONOXIDE DETECTORS SHALL BE IN ACCORDANCE WITH THE SECTION R314 OF 2023 FLORIDA BUILDING CODE, 8TH EDITION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION IN KITCHENS, BATHROOMS, LAUNDRY, GARAGES, AND OUTDOORS PER 2023 NEC 210.8 (A)
- ELECTRICAL CONTRACTOR SHALL PROVIDE ARC-FAULT CIRCUIT INTERRUPTER PROTECTION IN LIVING, DINING, HALLWAYS, AND BEDROOMS PER 2023 NEC 210.12 (A)
- ALL OUTDOOR RECEPTACLES SHALL BE PROTECTED FROM MOISTURE PER 2023 NEC 406.9
- ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS PER FBC-EENERGY CONSERVATION R404.
- ELEVATORS SHALL BE IN ACCORDANCE WITH FBC 2023, 8TH ED., SECTION R321.1

## MECHANICAL NOTES:

- ALL DUCT SIZING SHALL BE IN ACCORDANCE W/ ACCA MANUAL "D". PROVIDE DUCT TESTING IN ACCORDANCE W/ ASHRAE STANDARD 152.
- DUCT LAYOUT AND ALL OTHER MECHANICAL COMPONENTS ARE SHOWN ON THE APPROVED DUCT LAYOUT PLAN INCLUDED IN THE ENERGY CALCULATION PACKAGE PERFORMED BY OTHERS.
- ALL DUCTS & AIR HANDLERS NOT LOCATED IN CONDITIONED SPACE SHALL BE TESTED TO BE "SUBSTANTIALLY" LEAK FREE.
- 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
- 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.
- ELEVATORS SHALL BE IN ACCORDANCE WITH THE FBC 2023, 8TH ED., SECTION R321.1

## PLUMBING NOTES:

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

## BUILDING STRUCTURE INFORMATION:

CONDITIONED SPACE:	
1ST FLOOR.....	2,133 S.F.
UNCONDITIONED SPACE:	
FRONT PORCH.....	73 S.F.
REAR PATIO.....	235 S.F.
TOTAL SPACE.....	2,441 S.F.
CONDITIONED VOLUME.....	21,330 CU.FT.
TYPE OF CONSTRUCTION.....	5B
OCCUPANCY.....	R-3
FIRE SPRINKLERS:	NO
MAX HEIGHT OF STRUCTURE.....	<35'

Layout Page Table	
Label	Title
A-0	GENERAL NOTES
SITE	SITE PLAN
A-1	ELEVATIONS
A-2	FLOOR PLANS
A-3	SECTIONS & DETAILS
A-4	ROOF PLAN
A-5	ELECTRICAL LAYOUT
A-6	PLUMBING LAYOUT
A-7	FLASHING DETAILS
S-1	STRUCTURAL NOTES
S-2	FOUNDATION PLAN
S-3	FRAMING PLAN
S-4	FLOOR FRAMING
S-5	TRUSS PLAN
S-6	FRAMING DETAILS
S-7	FRAMING DETAILS

## GENERAL NOTES

NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32277

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-7156  
FL C.A.#2227

PROJECT #:24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024

A-0

OWNER:  
FREDERIC V DEPUYDT

**CONTRACTOR:**  
ATLANTIC PROPERTY BUILDERS, LLC.

## ZONING INFORMATION: SINGLE FAMILY- OR

FRONT B.R.L. - 25'  
LEFT B.R.L. - 10'  
RIGHT B.R.L. - 10'  
REAR B.R.L. - 10'  
MAX HEIGHT: 35'  
MAX LOT COVERAGE

## PROJECT STATISTICS:

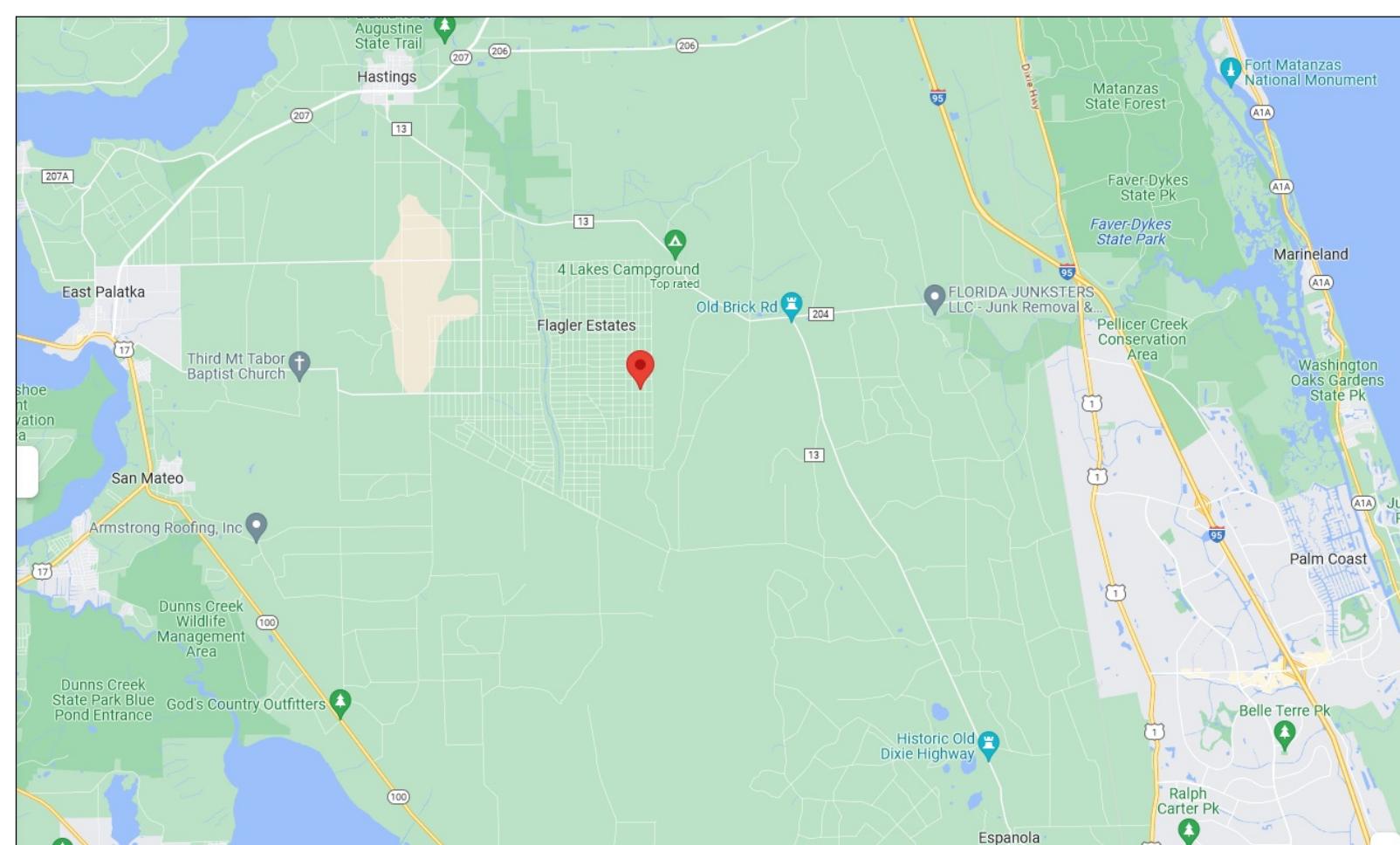
LOT SIZE: 49,500 SQFT  
BUILDING FOOTPRINT AREA: 2,054 SQFT.  
CONC. DRIVEWAY & WALKWAYS: 1,076 SQFT.  
MECH. PADS: 3 S.F.  
TOTAL LOT COVERAGE FOR STRUCTURES: 2  
TOTAL LOT COVERAGE FOR HARDCAPES: 1

## SCOPE OF WORK:

NEW SINGLE FAMILY RESIDENCE - 1 STORY

## SITE PLAN NOTES:

- 1 EAVES SHALL BE 16" BEYOND EDGE OF SLAB. SETBACKS ARE MEASURED TO WALLS. ROOF HEIGHT NOT TO EXCEED 35 FEET.
  - 2 · PROPOSED FILL = 4"-6" ABOVE EXISTING NATURAL GRADE. FILL LIMITS TO BE WITHIN 5' OF THE FOOTPRINT OF THE PROPOSED SFR.
  - 3 · A MINIMUM 1% SLOPE SHALL BE PROVIDED PER SECTION 6.04.06H IF THE ST. JOHNS COUNTY LAND DEVELOPMENT CODE.
  - 4 · EROSION CONTROL MEASURES (SILT FENCING SHALL BE USED AROUND THE PROPERTY BOUNDARY TO PREVENT IMPACT TO ADJACENT PROPERTIES.
  - 5 · WHEN PLANTING TREES, 70% ARE TO BE CANOPY TYPE WITH 50% OR MORE NATIVE SPECIES AND NOT MORE THAN 50% OF ONE SPECIES.
  - 6 · REQ. TREE INCHES =  $40" \times (49,500\text{-UPLANDS}/43560) = 45.5"$  TREE INCHES REQ-  
EXISTING NON-EXEMPT OR NEWLY PLANTED TREES (LAND DEVELOPMENT CODE 4.01.05.E)
  - 7 · THE APPLICANT OWNER SHALL IMMEDIATELY CONTACT ST. JOHNS COUNTY LOT GRADING STAFF SHOULD MODIFICATIONS TO THE DRAINAGE PLAN BE REQUIRED DURING SITE DEVELOPMENT, BASED ON ACTUAL FIELD CONDITIONS.
  9. SURVEY TO BE COMPLETED TO VERIFY PIN LOCATIONS AND HOME LOCATION PRIOR TO PLACEMENT OF ANY CONCRETE FOR FOUNDATIONS.
  10. ALL SITE PLAN INFORMATION IS BASED ON SURVEY PROVIDED BY IME CIVIL DATED 10/16/23
  11. CALL BEFORE YOU DIG: DIAL 811 (SUNSHINE LOCATES).
  12. RETAINING WALLS, ROOF GUTTERS WITH UNDERGROUND PIPING AND POP-UPS MAY BE REQUIRED BASED ON ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHOULD COORDINATE WITH ST. JOHNS COUNTY LOT GRADING STAFF.
  13. PROPOSED FOUNDATION TO BE A MONOLITHIC SLAB APPROX. 8-12 INCHES ABOVE EXISTING GRADE WITH MINIMAL FILL.



# SITE MAP

# SITE PLAN

SCALE: 1" = 20'

PROJECT #:24-1063	
DESIGNED: KCM	
DRAWN: KCM	
SCALE: AS NOTED	
DATE: 5/9/2024	

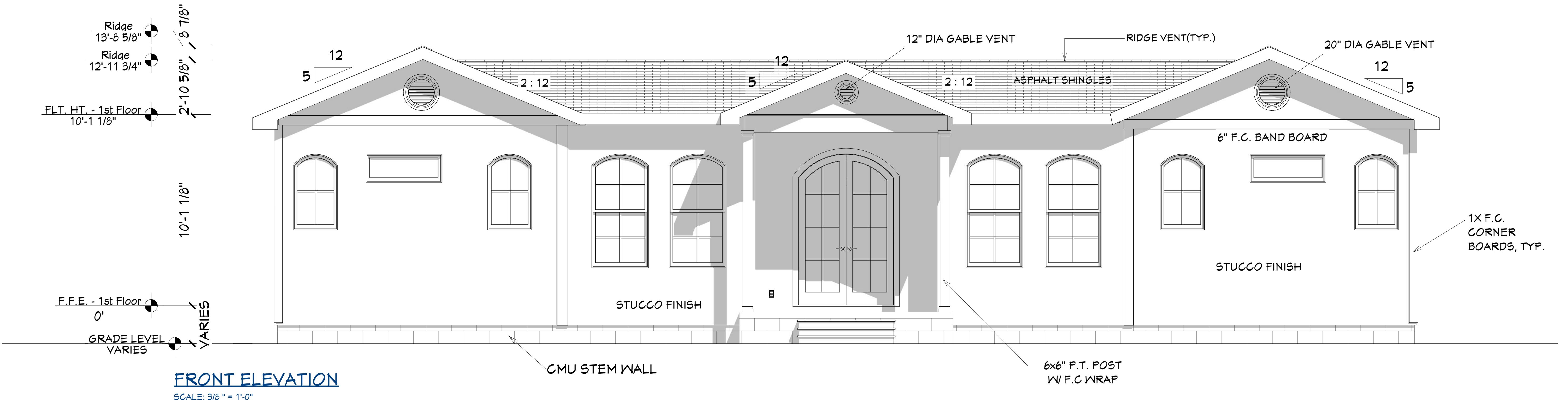
SITE



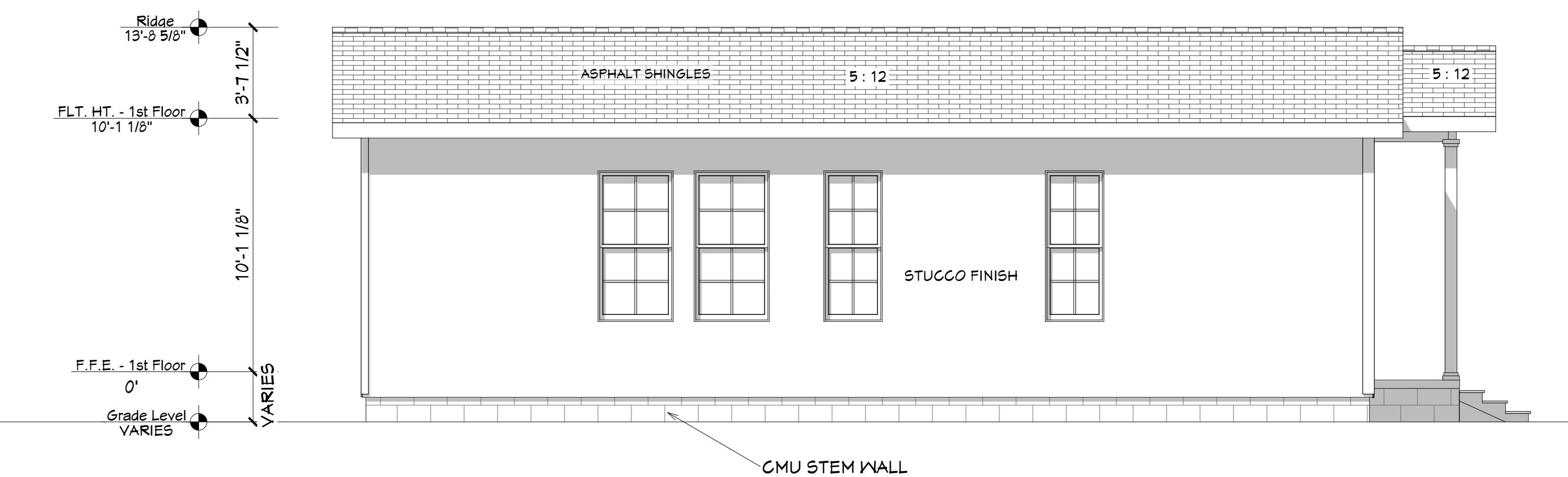
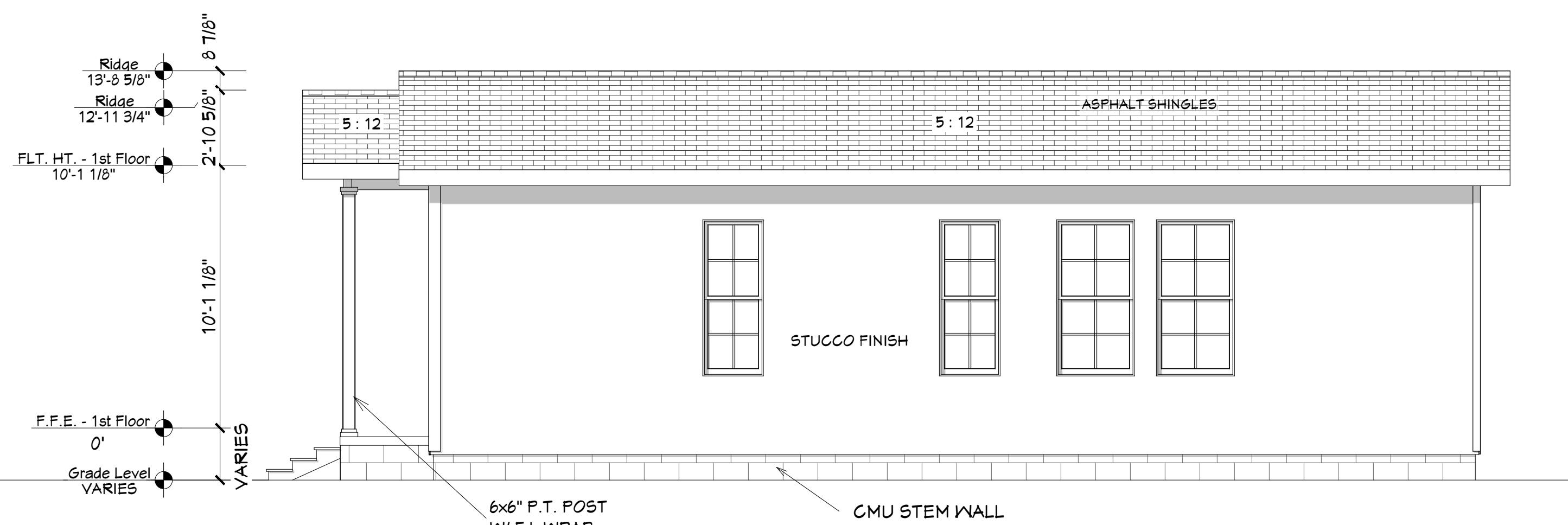
**SITE PLAN**  
NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32277

MARTIN ENGINEERING, LLC  
50 STATE ROAD 13 N., #106-3871  
JACKSONVILLE, FL 32259  
904-671-7156  
FL C.A.# 32027

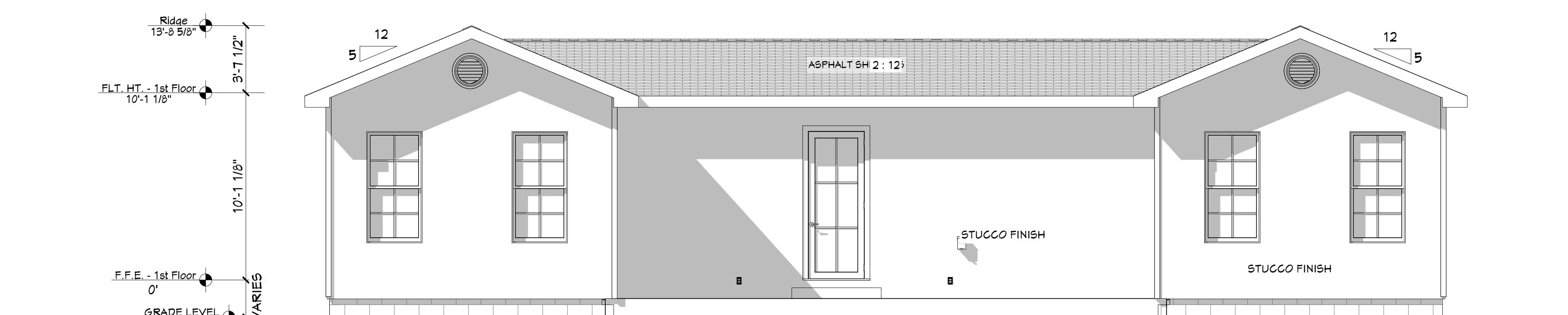
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Number	Date	Revised By	Description
			Revision Table



**ELEVATIONS**  
NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32227

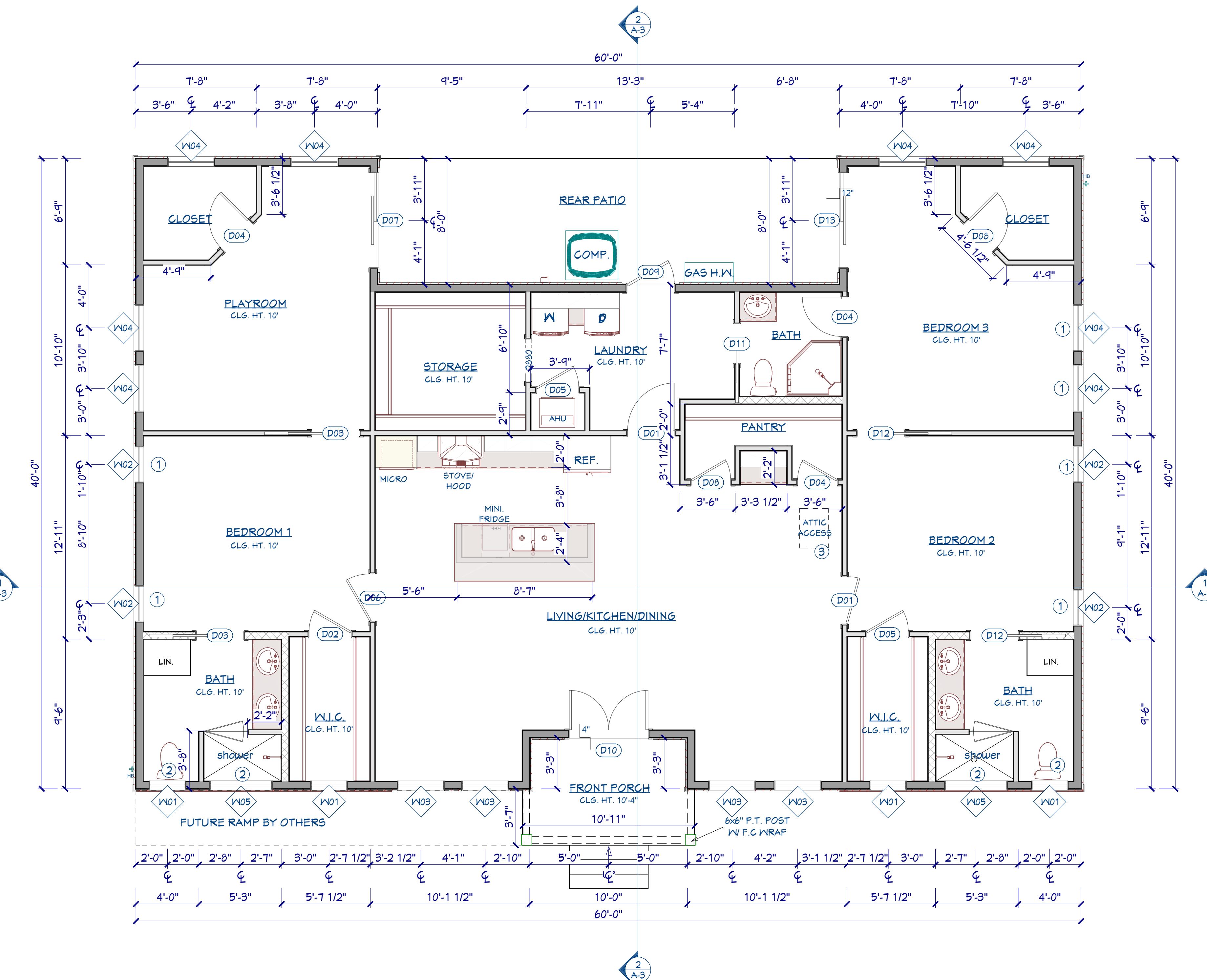


**REAR ELEVATION**

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

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-7156  
FL C.A.# 32027

PROJECT #:24-1063  
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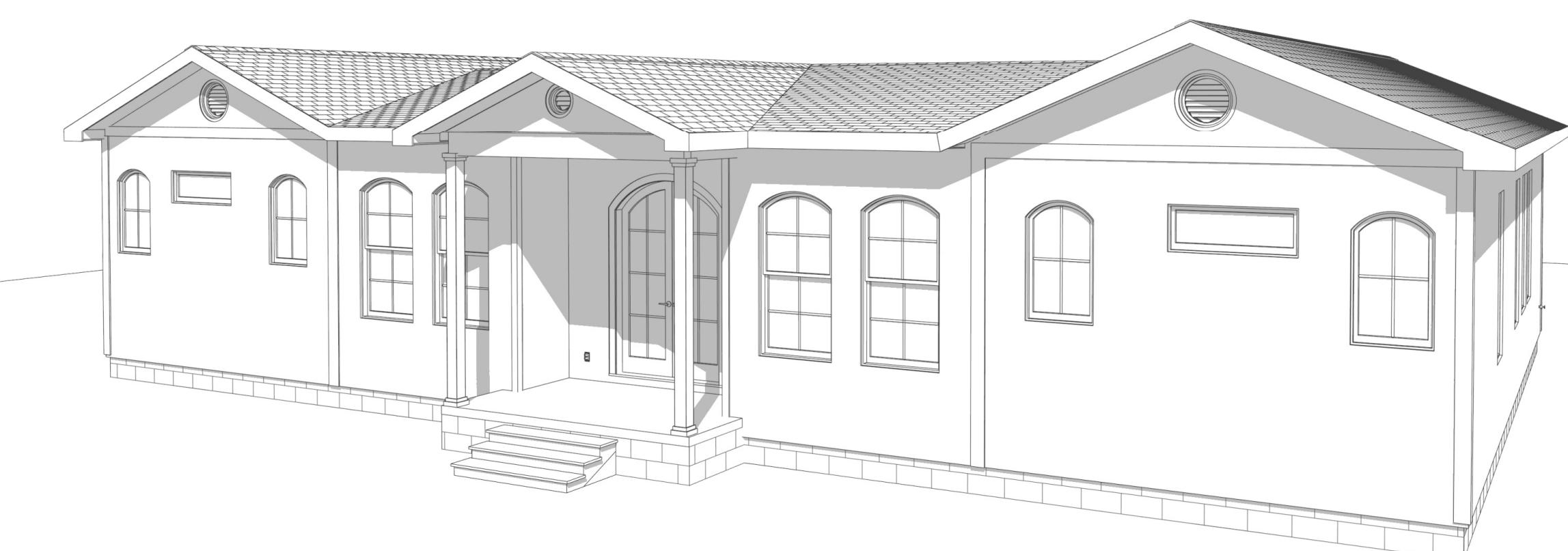
NUMBER	QTY	SIZE	WIDTH	HEIGHT	TOP	WINDOW SCHEDULE	
						DESCRIPTION	COMMENTS
W01	4	2440FX	28"	48"	96"	FIXED GLASS-	
W02	4	2460SH	28"	72"	96"	SINGLE HUNG	
W03	4	3060SH	36"	72"	96"	SINGLE HUNG-AT	
W04	8	3060SH	36"	72"	96"	SINGLE HUNG	
W05	2	4016FX	48"	18"	96"	FIXED GLASS	

NUMBER	LABEL	QTY	SIZE	WIDTH	HEIGHT	DOOR SCHEDULE	
						DESCRIPTION	COMMENTS
D01	3080	2	3080 R IN	36"	96"		
D02	2880	1	2880 R IN	32"	96"		
D03	3080	2	3080 L	36"	96"		
D04	2680	3	2680 R IN	30"	96"		
D05	2880	2	2880 L IN	32"	96"		
D06	3080	1	3080 L IN	36"	96"		
D07	6080	1	6080 L EX	72"	96"		
D08	2680	2	2680 L IN	30"	96"		
D09	3080	1	3080 L EX	36"	96"		
D10	5080	1	5080 L/R EX	60"	96"		
D11	2680	1	2680 L	30"	96"		
D12	3080	2	3080 R	36"	96"		
D13	6080	1	6080 R EX	72"	96"		

SEE FL. PRODUCT APPROVALS AND STRUCTURAL PLANS FOR ALLOWABLE WIND PRESSURE REQ

2D SYMBOL	WALL TYPE	WALL SCHEDULE	
		2X6-STUCCO	2X6-INTERIOR
LIN.			
W.I.C.			
GASHW			
REF.			
MICRO			
STOVE/HOOD			
MINI FRIDGE			
PANTRY			
BATH			
BEDROOM 1			
BEDROOM 2			
BEDROOM 3			
LAUNDRY			
STORAGE			
PLAYROOM			
REAR PATIO			
ATTIC ACCESS			
FUTURE RAMP BY OTHERS			
FRONT PORCH			
EX6 P.T. POST W/F.C.WRAP			

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



PROJECT #:24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024

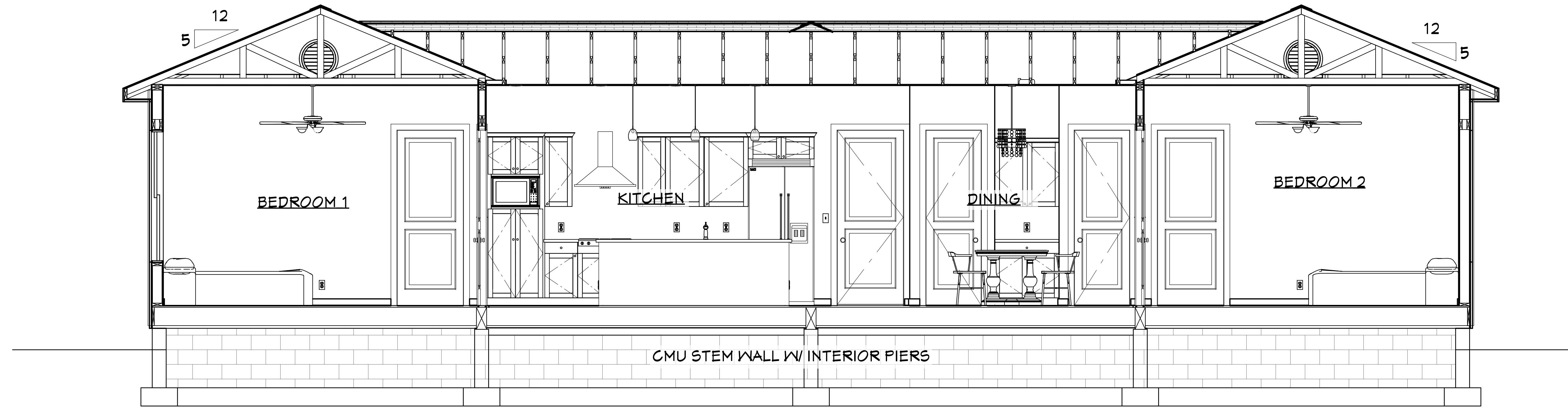
A-2

## FLOOR PLANS

NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32227

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #1063B  
JACKSONVILLE, FL 32259  
FL C.A.# 2207  
404-611-1156

Number	Date	Revised By	Description	
			Revision Table	Comments



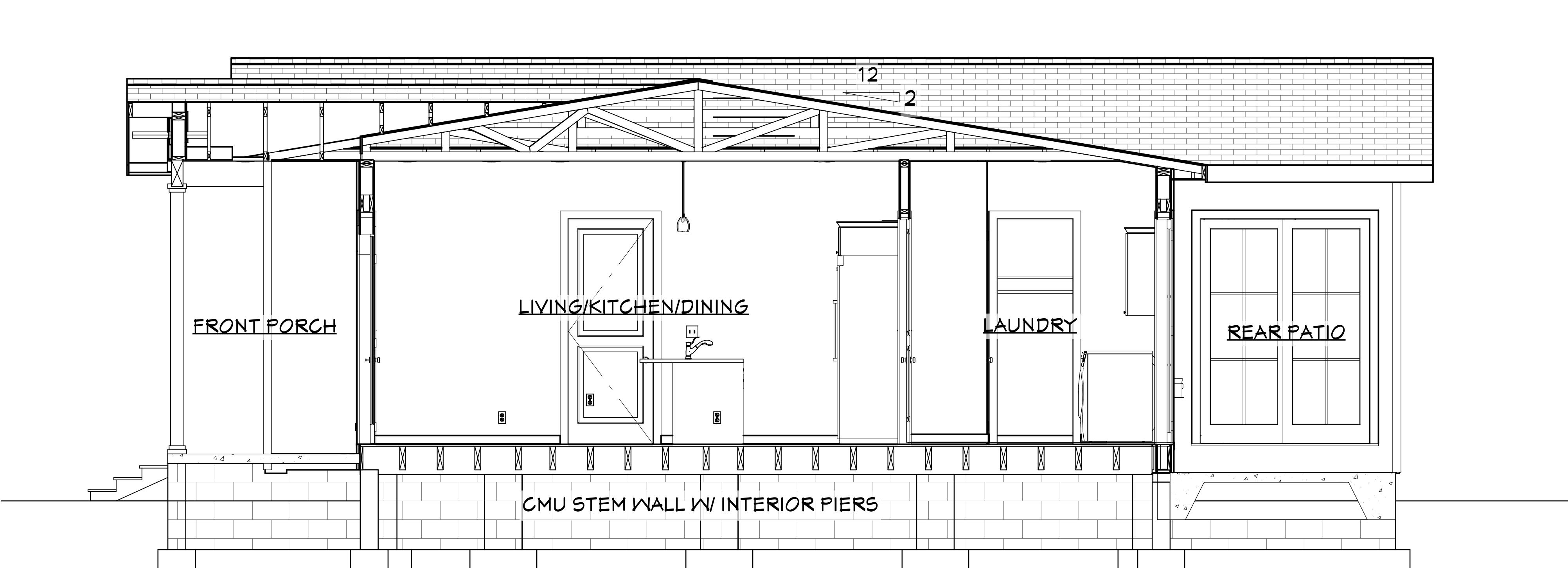
## SECTIONS & DETAILS

NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32227

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-7156  
FL C.A.# 22027

PROJECT #: 24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024

A-3



**3**  
**TYP. WALL SECTION**  
A-3  
SCALE: 1/2" = 1'-0"

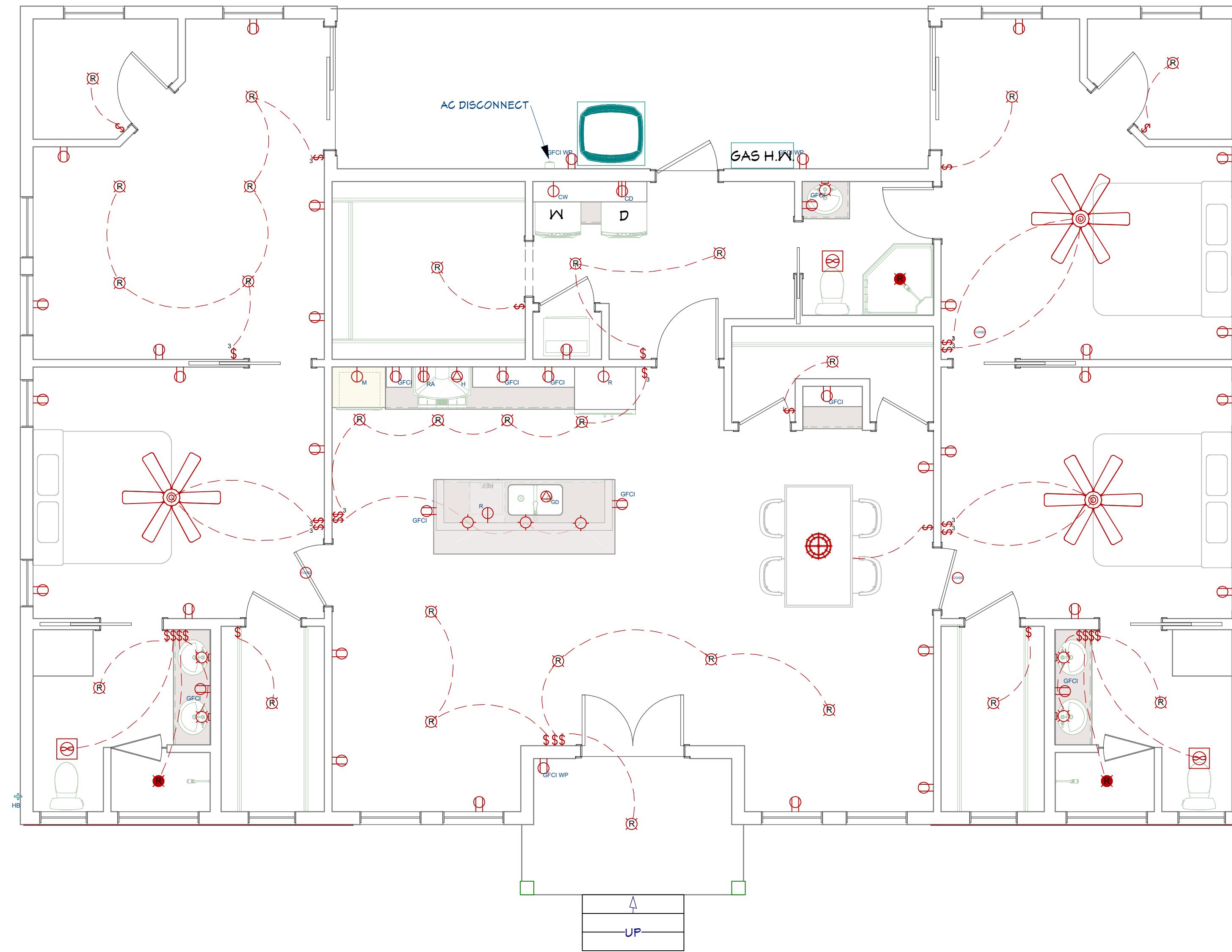
**2**  
**CROSS SECTION 2**  
A-3  
SCALE: 3/8" = 1'-0"

Number	Date	Revised By	Description



## ELECTRICAL PLAN

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



ELECTRICAL SCHEDULE			
2D SYMBOL	QTY	DESCRIPTION	COMMENTS
M	1	MICROWAVE	
RA	1	ELECTRIC RANGE	
H	1	HOOD W/ VENT	
CD	1	COIN CHANDELIER	PER OWNERS SPEC
R	26	RECESSED DOWN LIGHT 6	
	3	BLOWN GLASS PENDANT	
GD	1	GARBAGE DISPOSAL	SWITCH UNDER SINK
R	2	REFRIGERATOR	
D	24	DUPLEX	
CO/SD	3	CO/SMOKE DETECTOR	
GFCI	10	GFCI	
CD	1	CLOTHES DRYER	
CW	1	CLOTHES WASHER	
GFCI WP	3	GFCI WP	
R	3	RECESSED VAPOR LIGHT	
	3	EXHAUST	
	5	VANITY LIGHT IN BATH	
\$	21	SINGLE POLE	
\$3	10	THREE WAY	
X	3	CONTEMPORARY (3 LIGHTS)	

## ELECTRICAL LAYOUT

NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32227

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-7156  
FL C.A.# 32027

PROJECT #: 24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024

#### PLUMBING NOTES:

- ALL PLUMBING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE-RESIDENTIAL 8TH EDITION 2023, AND WITH ALL APPLICABLE REGULATIONS.
- 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.
- 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.
- 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, DWV 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.
- ALL AUTOMATIC ELECTRIC WATER HEATERS SHALL MEET THE STANDARDS OF THE LATEST ENERGY EFFICIENCY CODE.
- VALVES, DOMESTIC WATER VALVES SHALL BE OF BRONZE BODY, SWEAT ENDS.
- HOSE BIBS SHALL BE  $\frac{3}{4}$ " ROUGH BRASS CONSTRUCTION WITH SHUT OFF VALVE AND VACUUM BREAKER.
- ALL OUTDOOR FLOOR CLEAN OUTS SHALL BE TERMINATED UP TO GRADE AND SHALL BE MARKED.
- CLEANOUTS SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK, AS PER SECTION 108.3.4 FBCP.
- CONTRACTOR SHALL PROVIDE MAINTENANCE FREE MECHANICAL SHOCK ARRESTORS AT ALL FIXTURES WITH QUICK CLOSING VALVES.
- VENT SYSTEMS USING AIR ADMITTANCE VALVES SHALL COMPLY WITH THIS SECTION. INDIVIDUAL AND BRANCH-TYPE AIR ADMITTANCE VALVES SHALL CONFORM TO ASSE 1050.
- 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.
- 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 P2108.3 ACCESS PANEL FOR WHIRLPOOL BATHTUB PUMP SHALL BE PROVIDED PER FBCR 2120.L
- DISHWASHER CONNECTION. THE COMBINED DISCHARGE FROM A SINK DISHWASHER, AND WASTE GRINDER IS PERMITTED TO DISCHARGE THROUGH A SINGLE 1-1/2"(38 MM) TRAP. THE DISCHARGE PIPE FROM THE DISHWASHER SHALL BE INCREASED TO A MINIMUM OF  $\frac{3}{4}$ "(4MM) 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.
- THE CONTRACTOR SHALL FIELD VERIFY ALL INVERT ELEVATIONS AND SIZE OF EXISTING SEWER AND WATER MAINS FOR CONNECTION OF NEW SERVICES.
- ALL PLUMBING FIXTURES SHALL BE DETERMINED BY OWNER
- 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.
- THE PLUMBING CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL REQUIRED EQUIVALENT, UNLESS OTHERWISE NOTED.
- 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.
- 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 CORROSION 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 CORROSION MATERIAL. SHEATHING OR WRAPPING SHALL ALLOW FOR MOVEMENT INCLUDING EXPANSION AND CONTRACTION OF PIPING MINIMUM WALL THICKNESS OF MATERIAL SHALL BE 0.010 INCH

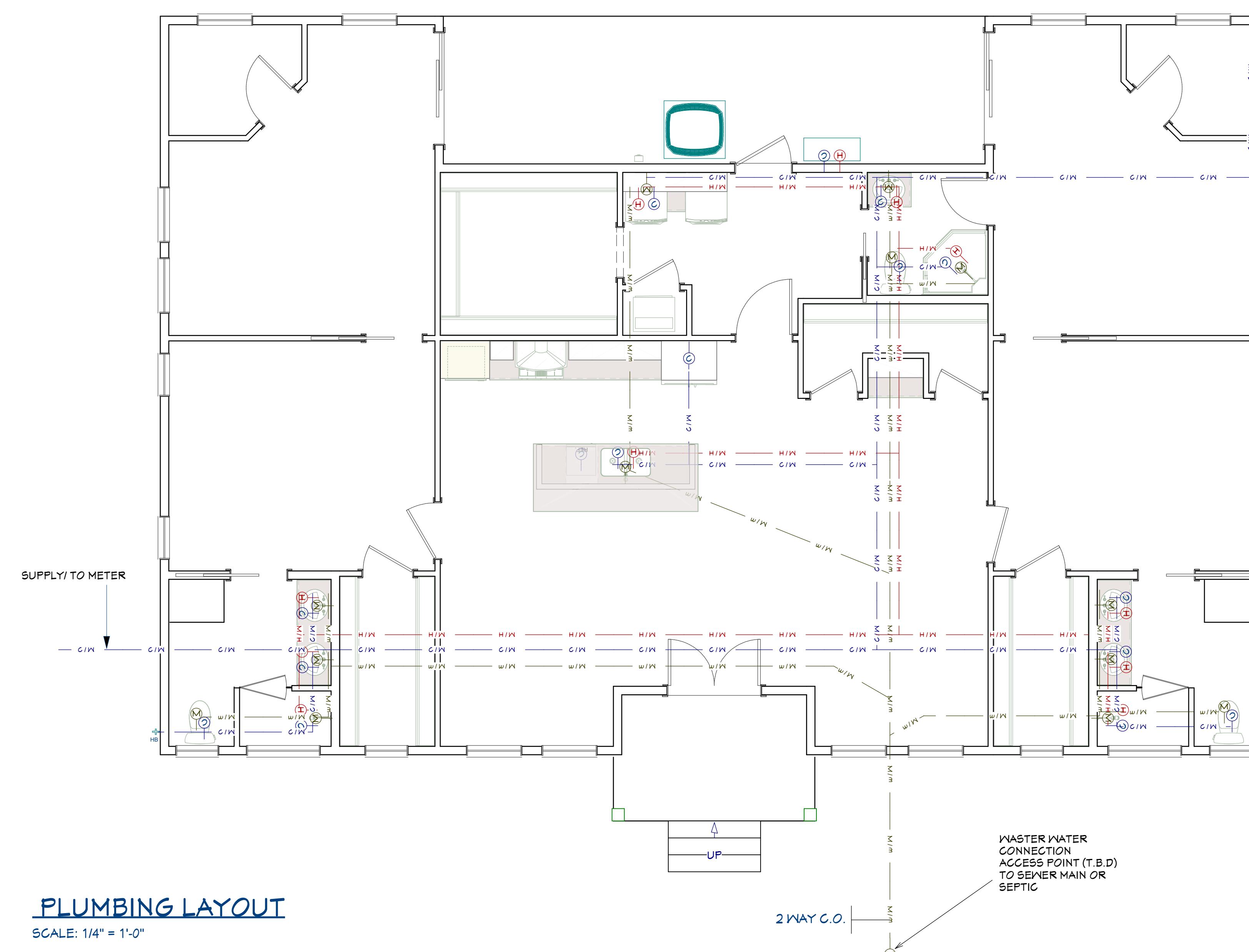
#### PLUMBING LEGEND:

	COLD WATER ACCESS
	HOT WATER ACCESS
	WASTE WATER ACCESS
	COLD WATER LINE
	HOT WATER LINE
	WASTE WATER

#### PLUMBING SCHEDULE

NO.	DESCRIPTION	WASTE	WATER	
			COLD	HOT
WC	WATER CLOSET	3"	1/2"	—
LAV.	LAVATORY	1 1/4"	1/2"	1/2"
TUB/SHUR	TUB / SHOWER	1 1/2"	1/2"	1/2"
G.T.	GARDEN TUB	1 1/2"	1/2"	1/2"
SHUR	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" DW	—	1/2"
REF.	REFRIGERATOR	—	1/2"	—

PROVIDE ANTI-SCALD VALVE.  
PROVIDE MECH SHOCK ABSORBER TO EA. SUPPLY

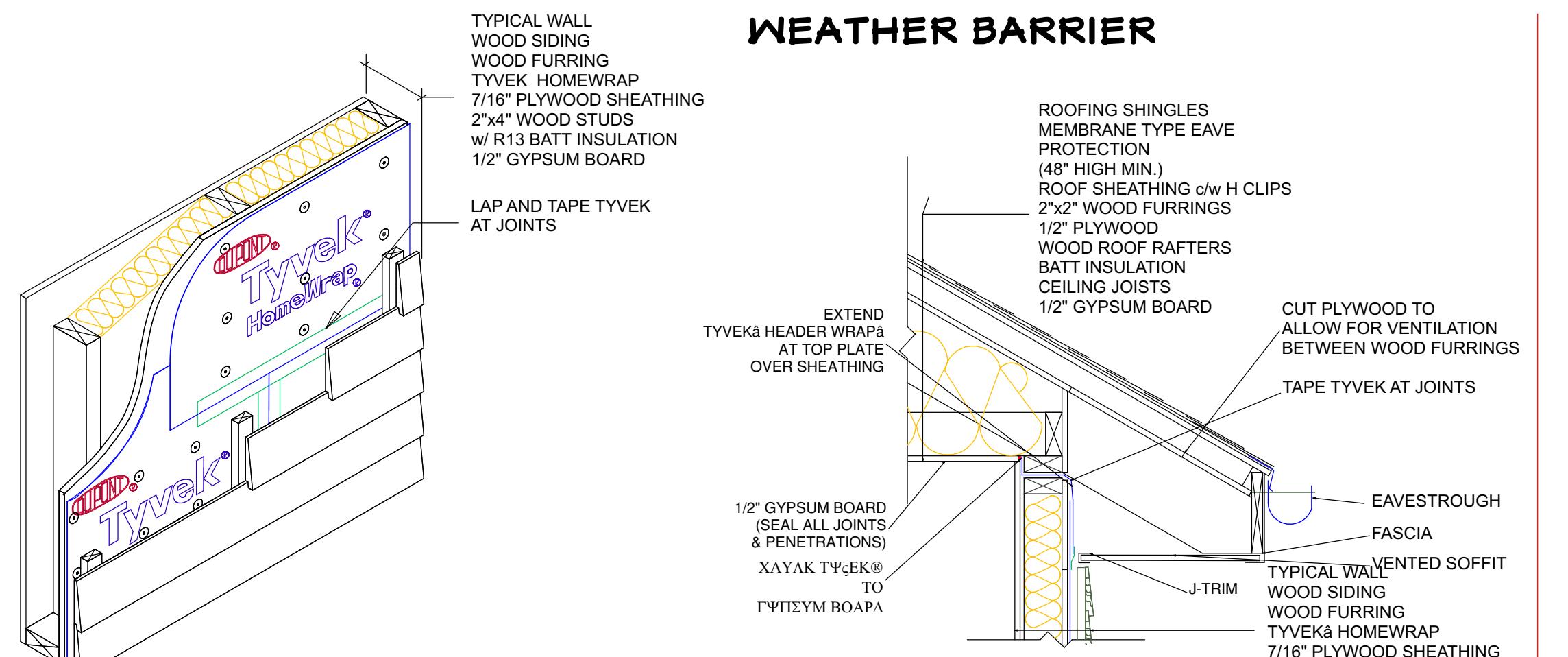


#### PLUMBING LAYOUT

NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32277

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
FL C.A.#2227

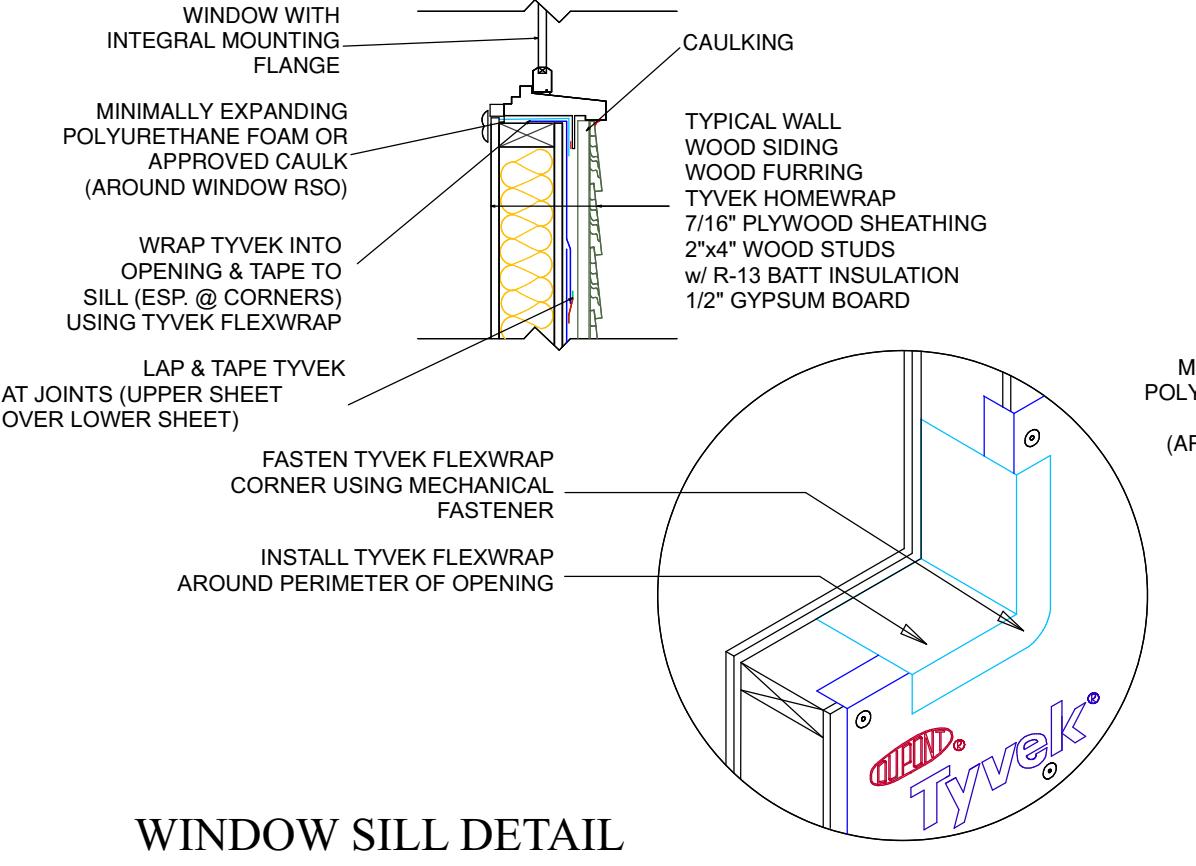
PROJECT #:24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024



## WEATHER BARRIER

### TYPICAL WALL ISOMETRIC

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

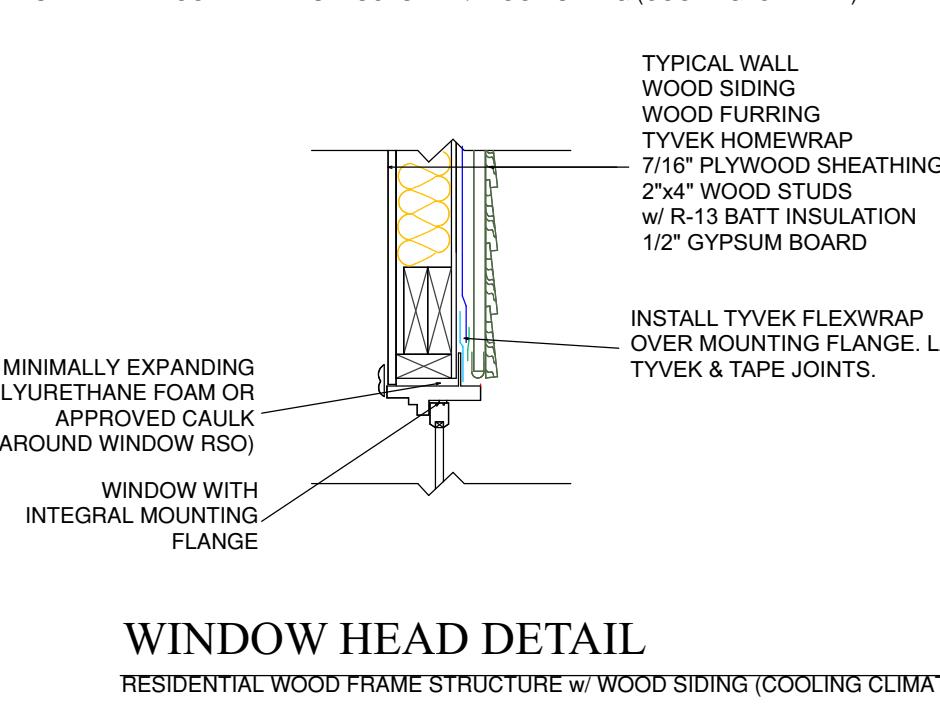


### WINDOW SILL DETAIL

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

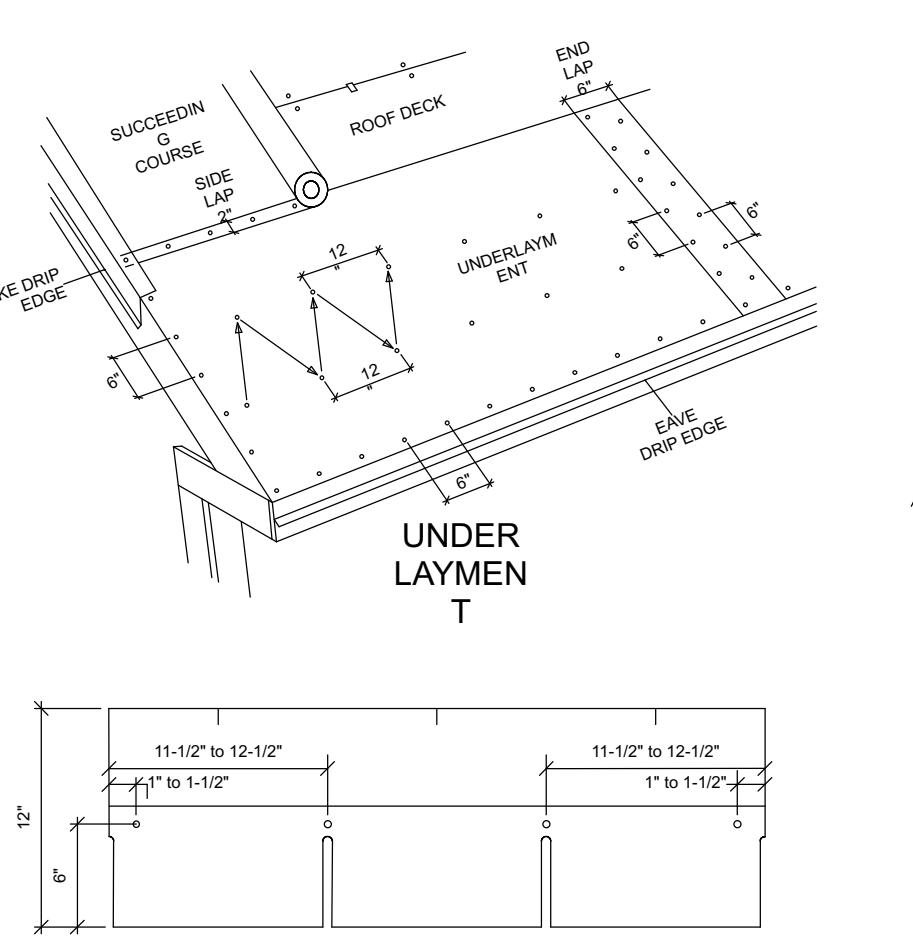
### ROOF/ WALL INTERFACE DETAIL

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



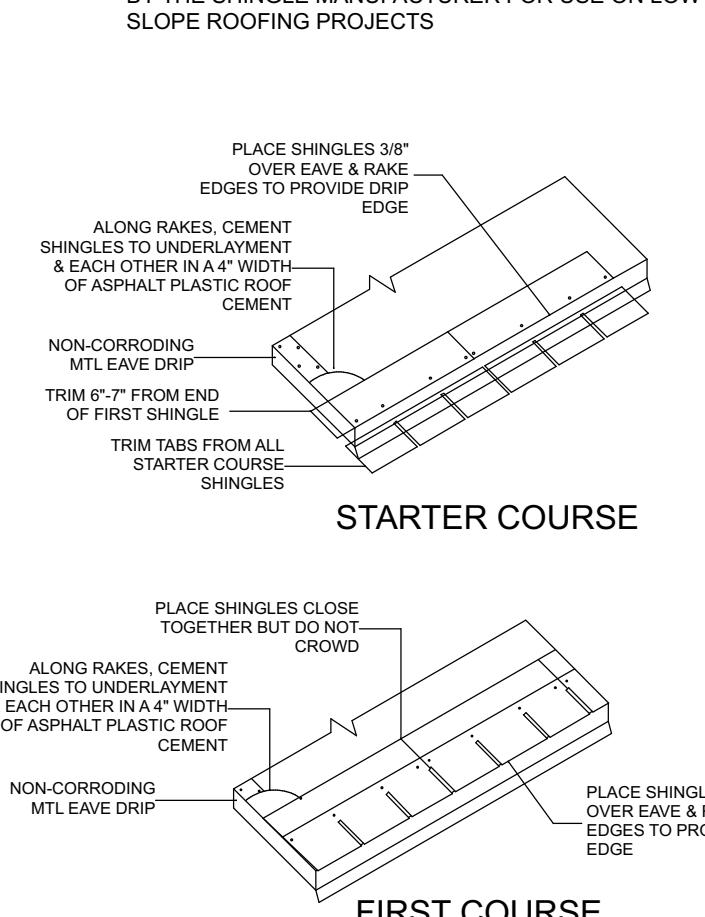
### WINDOW HEAD DETAIL

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

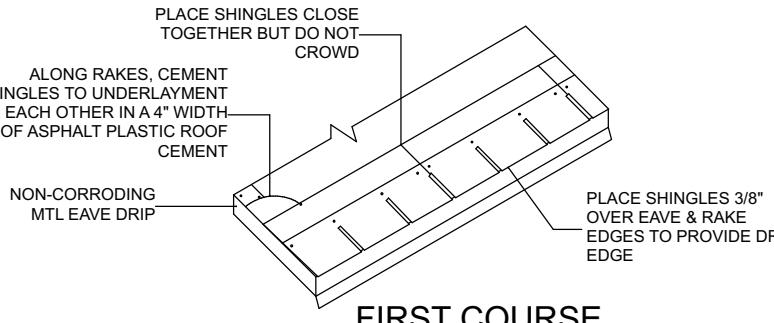


### SHINGLE NAILING

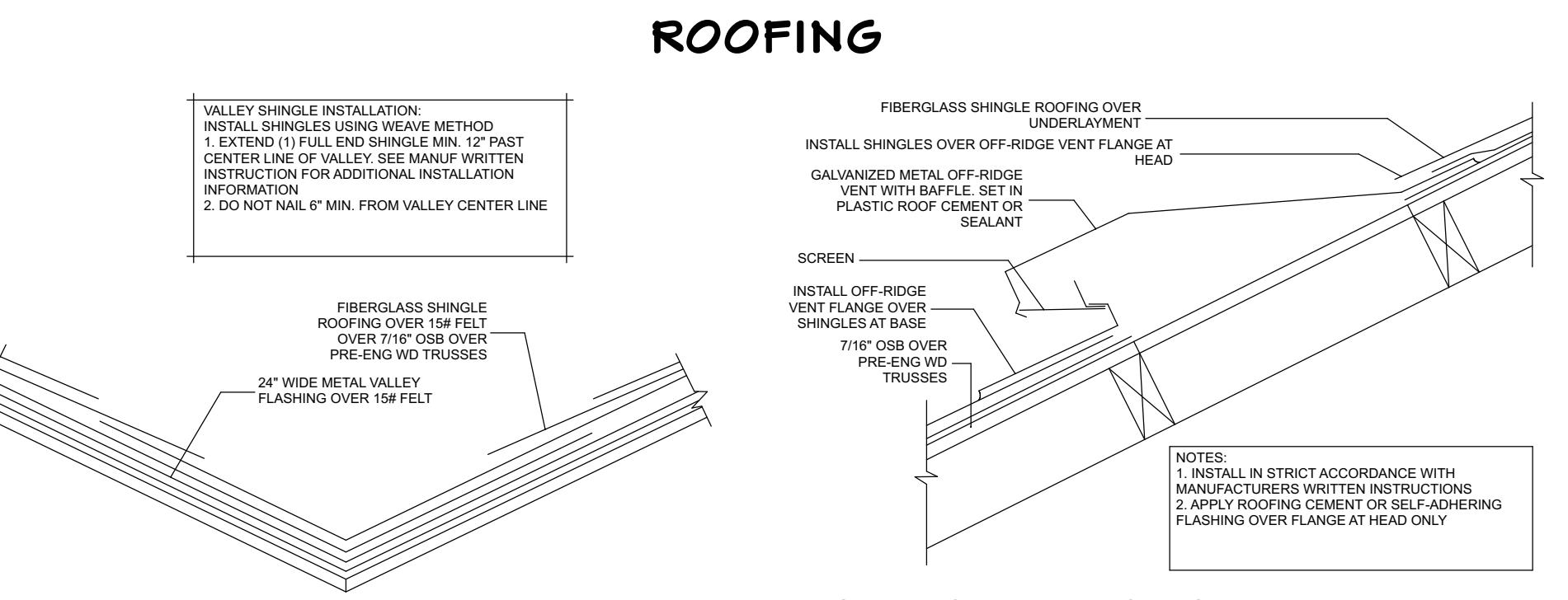
NOTE: DETAILS ARE FOR SLOPES OF 3:12 OR GREATER. FOR SLOPES BELOW 3:12, ALSO ROOFING UNDERLAYMENT SHALL BE SELF-PERFORATED. SEE MANUFACTURER APPROVED BY THE SHINGLE MANUFACTURER FOR USE ON LOW SLOPE ROOFING PROJECTS



### STARTER COURSE

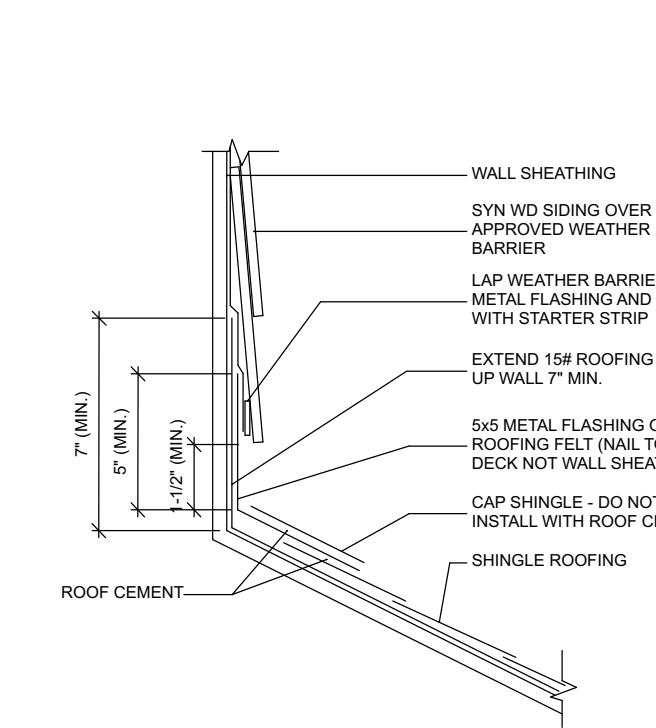


### FIRST COURSE



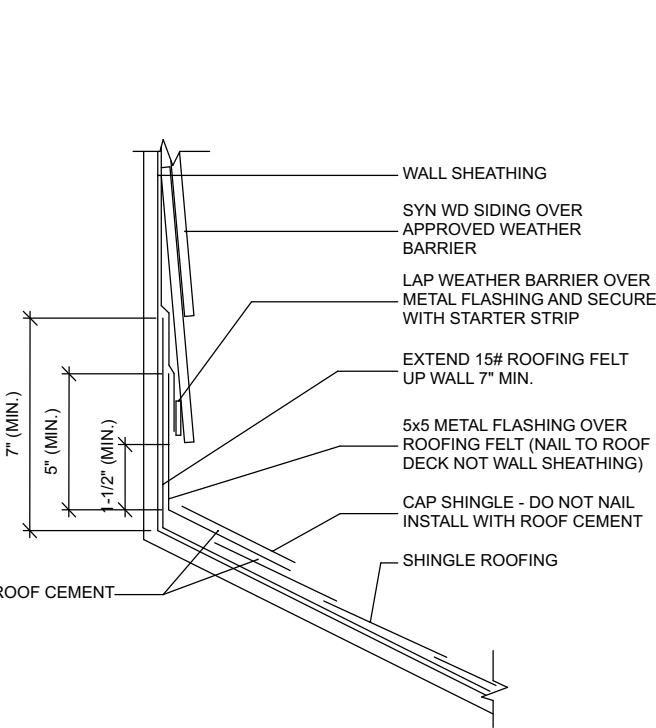
### VALLEY FLASHING DETAIL

N.T.S.



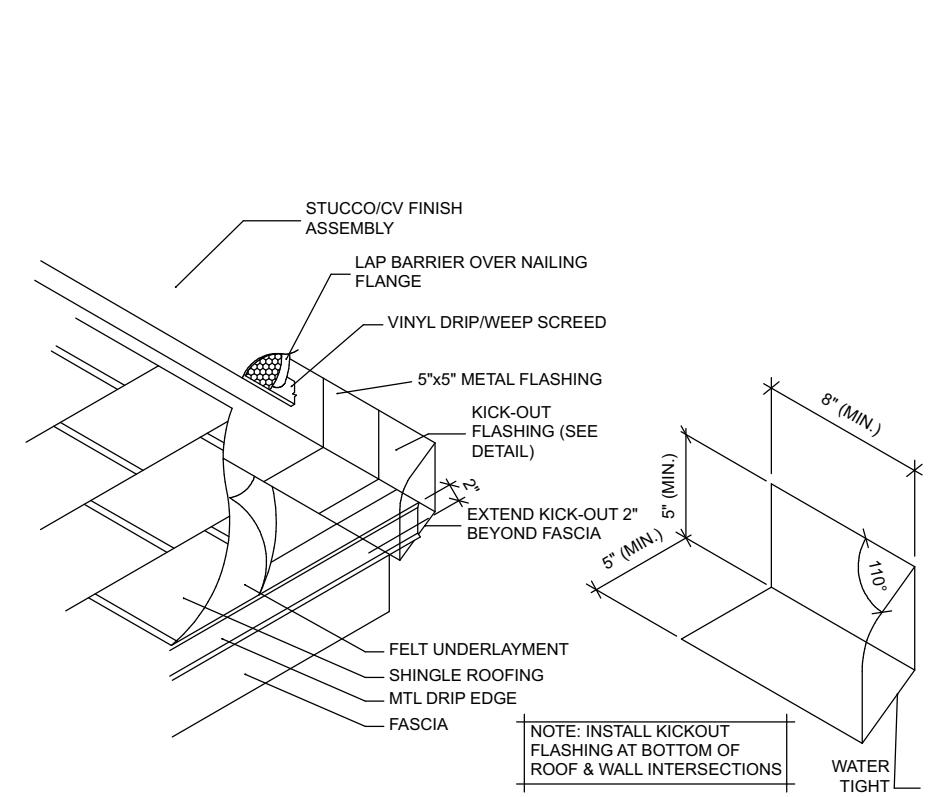
### OFF-RIDGE VENT FLASHING DETAIL

N.T.S.



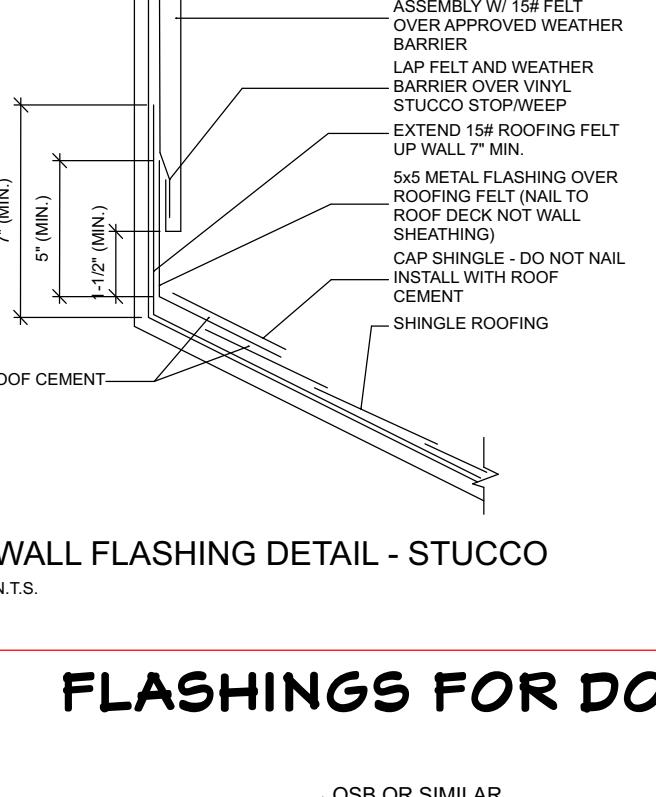
### WALL FLASHING DETAIL - LAP SIDING

N.T.S.



### WALL/KICKOUT FLASHING DETAIL

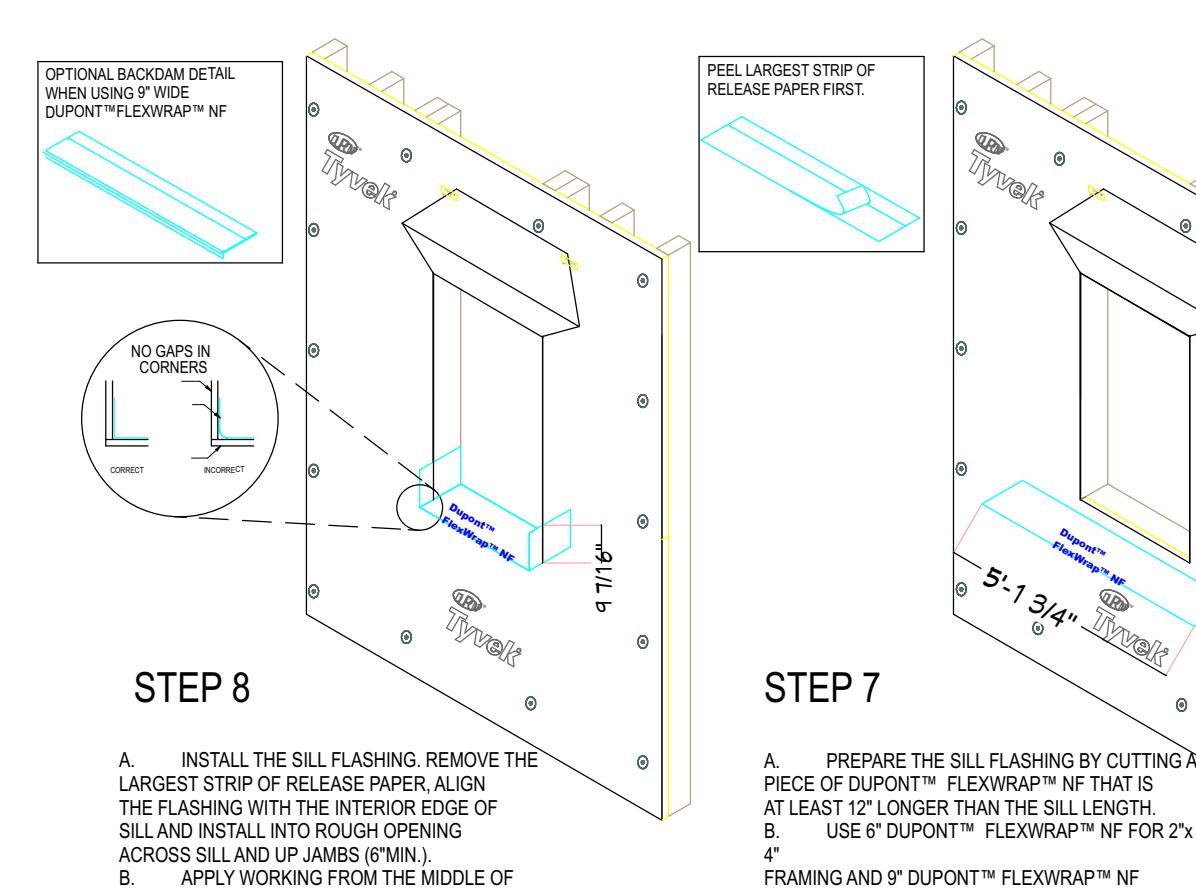
N.T.S.



### WALL FLASHING DETAIL - STUCCO

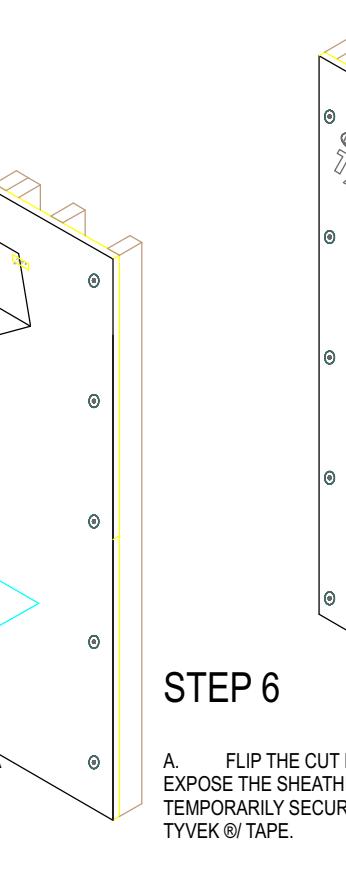
N.T.S.

## FLASHINGS FOR DOORS



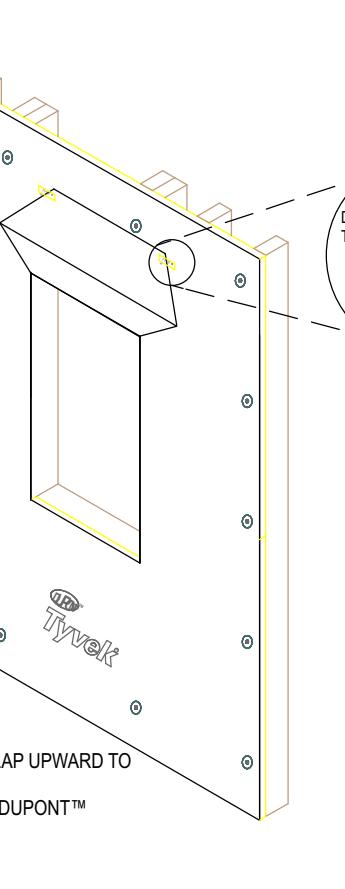
### STEP 8

A. INSTALL THE SILL FLASHING. REMOVE THE LARGEST STRIP OF RELEASE PAPER. ALIGN THE FLASHING WITH THE INTERIOR EDGE OF THE SILL AND INSTALL INTO ROUGH OPENING ACROSS THE SILL AND UP TO 60" MIN. B. APPLY TYVEK FROM MIDDLE OF THE SILL TOWARD THE JAMB. SECURE DUONT™ FLEXWRAP™ NF TIGHTLY INTO THE CORNERS BY FIRST WORKING IN ALONG THE SILL BEFORE ADHERING UP THE JAMB. C. DO NOT STRETCH MATERIAL ALONG THE SILL OR JAMBS.



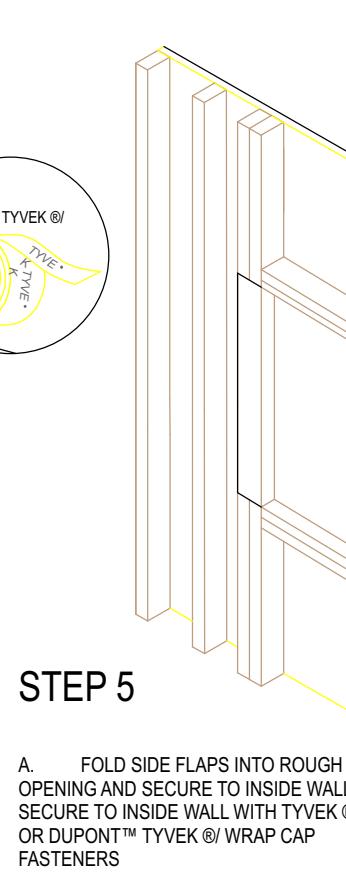
### STEP 7

A. PREPARE THE SILL FLASHING BY CUTTING A PIECE OF DUPONT™ FLEXWRAP™ NF THAT IS AT LEAST 12' LONGER THAN THE SILL LENGTH. B. USE 2" DUPONT™ FLEXWRAP™ NF FOR 2"x6" FRAMING AND 4" DUPONT™ FLEXWRAP™ NF FOR 2"x8" FRAMING. C. INSPECT INSTALLATION SURFACE TO ENSURE IT IS FREE OF DIRT AND SUBSTANCES THAT COULD INTERFERE WITH ADHESION AS WELL AS ANY SHARP PROTRUSIONS.



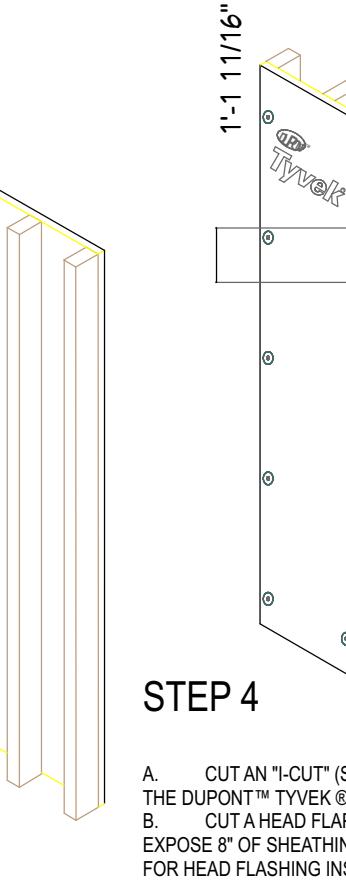
### STEP 6

A. FLIP THE CUT HEAD FLAP UPWARD TO EXPOSE THE SHEATHING AND TEMPORARILY SECURE WITH DUPONT™ TYVEK® TAPE OR DUPONT™ WRB CAP FASTENERS.



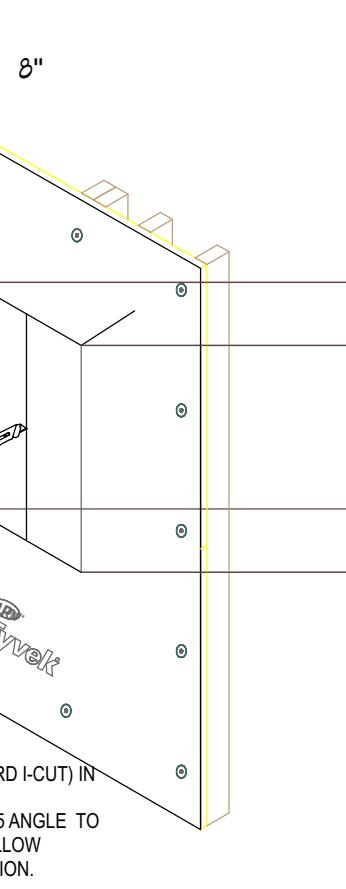
### STEP 5

A. FOLD SIDE FLAPS INTO ROUGH OPENING AND SECURE TO INSIDE WALL WITH TYVEK® TAPE OR DUPONT™ TYVEK® WRB CAP FASTENERS.



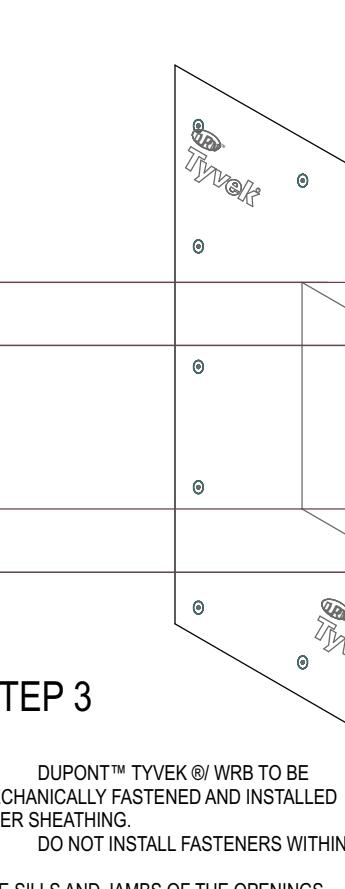
### STEP 4

A. CUT AN I-CUT (STANDARD I-CUT) IN THE DUONT™ TYVEK® WRB TO BE MECHANICALLY FASTENED AND INSTALLED OVER SHEATHING. B. CUT HEAD FLAP AT A 45 ANGLE TO EXPOSE SHEATHING TO ALLOW FOR HEAD FLASHING INSTALLATION.



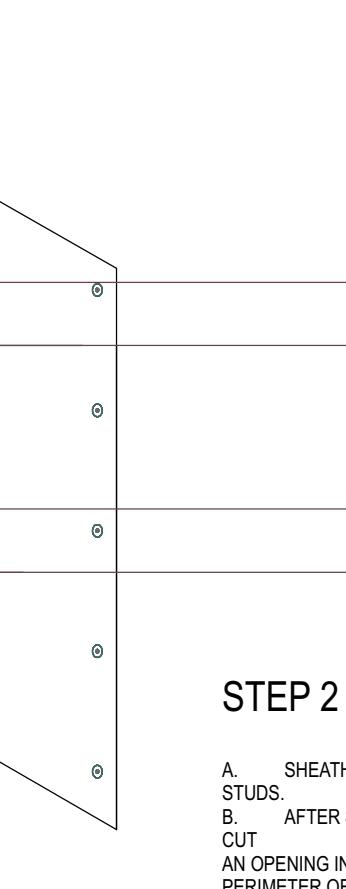
### STEP 3

A. DUPOINT™ TYVEK® WRB TO BE MECHANICALLY FASTENED AND INSTALLED OVER SHEATHING. B. AFTER SHEATHING HAS BEEN INSTALLED, CUT AN OPENING IN THE SHEATHING ALONG THE PERIMETER OF THE ROUGH OPENING FOR WINDOW. C. ENSURE THE SHEATHING IS CUT FLUSH WITH OR SLIGHTLY BELOW THE SILL FRAMING TO ALLOW FOR POSITIVE DRAINAGE.



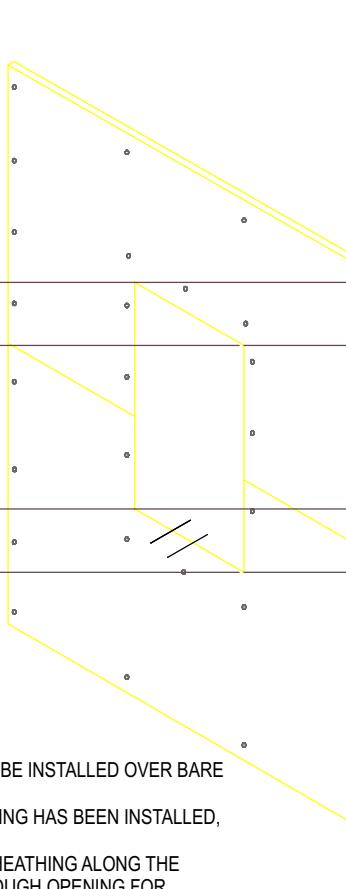
### STEP 2

A. SHEATHING TO BE INSTALLED OVER BARE STUDS PRIOR TO SHEATHING INSTALLATION. SLOPE SHEATHING TO EXTERIOR FRAMING AND INSIDE JAMB. B. AFTER SHEATHING HAS BEEN INSTALLED, CUT AN OPENING IN THE SHEATHING ALONG THE PERIMETER OF THE ROUGH OPENING FOR WINDOW. C. ENSURE THE SHEATHING IS CUT FLUSH WITH OR SLIGHTLY BELOW THE SILL FRAMING TO ALLOW FOR POSITIVE DRAINAGE.



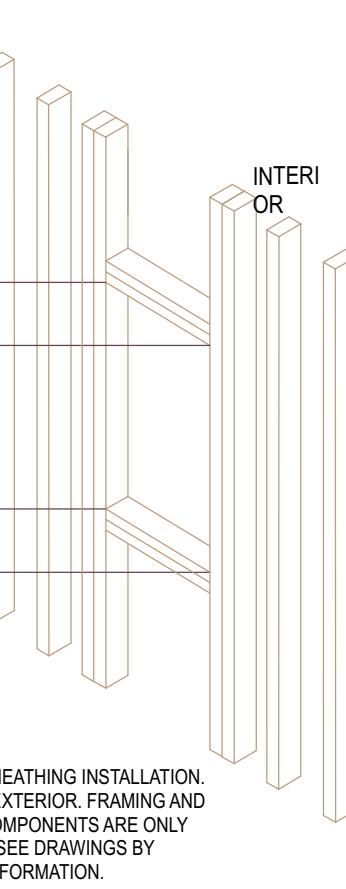
### STEP 1

A. SHEATHING TO BE INSTALLED OVER BARE STUDS PRIOR TO SHEATHING INSTALLATION. SLOPE SHEATHING TO EXTERIOR FRAMING AND INSIDE JAMB. B. AFTER SHEATHING HAS BEEN INSTALLED, CUT AN OPENING IN THE SHEATHING ALONG THE PERIMETER OF THE ROUGH OPENING FOR WINDOW. C. ENSURE THE SHEATHING IS CUT FLUSH WITH OR SLIGHTLY BELOW THE SILL FRAMING TO ALLOW FOR POSITIVE DRAINAGE.



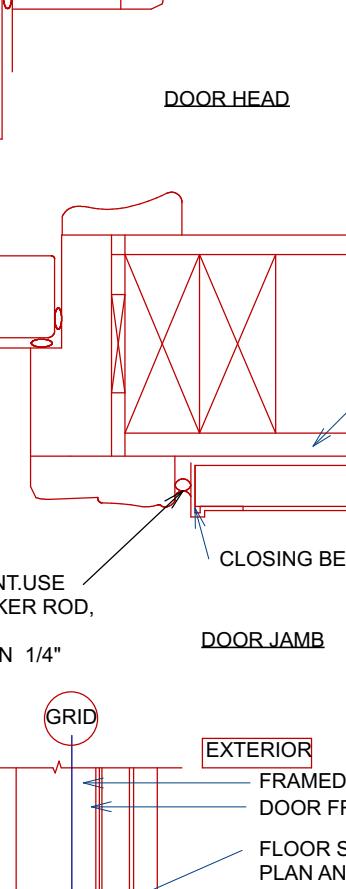
### STEP 16

A. TAPE DOWN ALL CUTS IN DUPONT™ TYVEK® WRB AND TAPE ACROSS HEAD OF THE WINDOW OPENING WITH DUPONT™ TYVEK® TAPE, 4" DUPONT™ FLASHING TAPE OR DUPONT™ STRAIGHTFLASH™.



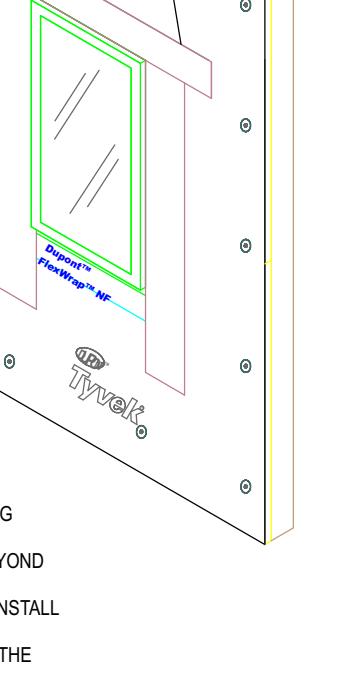
### STEP 15

A. TRIM THE DUPONT™ TYVEK® WRB 1"-2" ABOVE THE WINDOW OPENING. B. WHEN TRIMMING THE DUPONT™ TYVEK® WRB SO IT LAYS FLAT ACROSS THE HEAD FLASHING THAT HAS BEEN INSTALLED BEHIND IT.



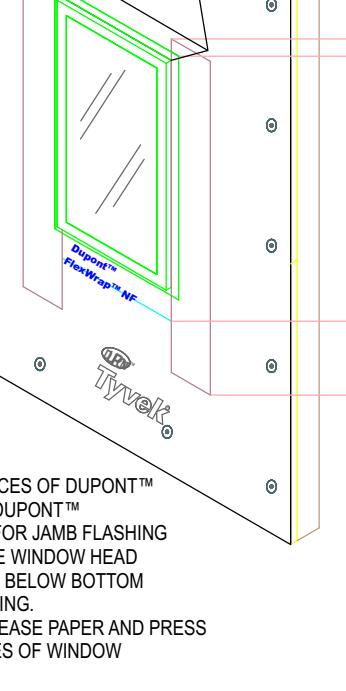
### STEP 14

A. FLIP DOWN UPPER FLAP OF DUPONT™ TYVEK® WRB SO IT LAYS FLAT ACROSS THE HEAD FLASHING THAT HAS BEEN INSTALLED BEHIND IT.



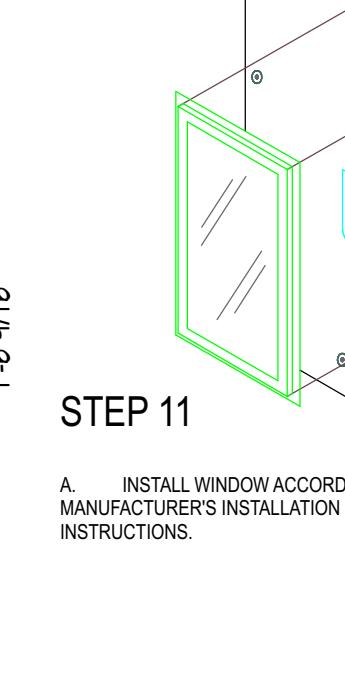
### STEP 13

A. CUT TWO PIECES OF DUPONT™ STRAIGHTFLASH™ OR DUPONT™ TYVEK® WRB TO EXTEND BEYOND OUTER EDGES OF JAMB FLASHING. C. CUT A STRAIGHTFLASH™ AND INSTALL COMPLETELY COVERING WINDOW MOUNTING FLANGE AND ADHERING TO THE EXPOSED SHEATHING.



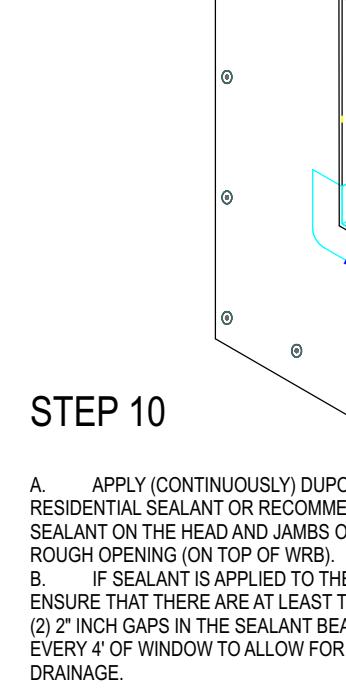
### STEP 12

A. REMOVE RELEASE PAPER AND PRESS TIGHTLY ALONG SIDES OF WINDOW FRAME.



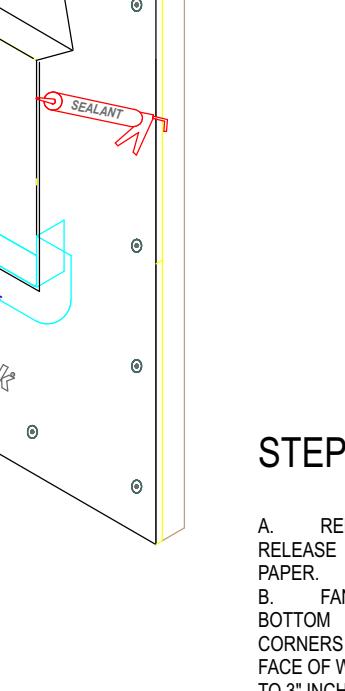
### STEP 11

A. INSTALL WINDOW ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.



### STEP 10

A. APPLY CONTINUOUSLY DUPONT™ RESIDENTIAL SEALANT OR RECOMMENDED SEALANT ON THE HEAD AND JAMB OF THE WINDOW. B. ENSURE THAT THERE ARE AT LEAST TWO (2) 2" INCH GAPS IN THE SEALANT BEAD FOR EVERY 4' OF WINDOW TO ALLOW FOR DRAINAGE.



### STEP 9

A. REMOVE NARROW PIECE OF THE RELEASE PAPER. B. FAN DUPONT™ FLEXWRAP™ NF AT BOTTOM AND ADHERE onto EXTERIOR FACE OF WALL. COVERAGE SHOULD BE 2" TO 3" IN

# STRUCTURAL NOTES

NEW SINGLE FAMILY  
O'DENFIELD ROAD  
JACKSONVILLE, FL 32227

MARTIN ENGINEERING, LLC  
450 STATE ROAD 3 N. #106-387  
JACKSONVILLE, FL 32259  
FL C.A.#2227

PROJECT #: 24-1063

DESIGNED: KCM

DRAWN: KCM

SCALE: AS NOTED

DATE: 5/9/2024

S-1

## GENERAL STRUCTURAL NOTES

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 INVOVED, THE CONTRACTOR SHALL FILE 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.

CENTER ALL FOOTINGS AND PIERS UNDER COLUMNS ABOVE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.

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 2023 FLORIDA BUILDING CODE, 8TH EDITION. OTHER CODES IMPLEMENTED FOR DESIGN INCLUDE: ACI 318-18/B30, 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 COMPAKTED 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 2023 FLORIDA BUILDING CODE, 8TH EDITION, 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:

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

CEMENT SHALL CONFORM TO ASTM C150, TYPE F OR TYPE G, 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, PROVIDED 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" CHAMBERS 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.

## WEATHER RESISTANCE:

ALL CONCRETE INCLUDING BALCONY CONCRETE EXPOSED TO CHLORIDES SHALL CONTAIN A CALCIUM-NITRITE BASED CORROSION-INHIBITING ADMIXTURE. THE DOSEAGE FOR CONCRETE EXPOSED TO AIRBORNE CHLORIDES SHALL BE MINIMUM TWO GALLONS PER CUBIC YARD. THE WATER CONTAINED IN THE CORROSION-INHIBITING ADMIXTURE SHALL BE USED IN THE CALCULATION OF THE WATER-TO-CEMENTITIOUS RATIO OF THE CONCRETE. PROVIDE RHOCRETIC CNI BY MASTER BUILDERS OR APPROVED EQUIVALENT.

CONCRETE BALCONIES OR OTHER CONCRETE FLAT SURFACES EXPOSED TO THE WEATHER THROUGHOUT THE LIFE OF THE BUILDING, SHALL BE TREATED WITH A CLEAR NONFLAMMABLE PENETRATING SEALER OF THE ALKYL ALKOXY SILANE CLASSIFICATION, SUCH AS SONNEBORN PENETRATING SEALER 20, HYDROZO ENVIREOSEAL 20, OR OTHER APPROVED WEATHER RESISTANT SYSTEM. APPLICATION AND SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

## SHORING AND RESHORING:

SHORING AND RESHORING SHALL CONFORM TO ACI 347R-88. SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH IS AT LEAST 10 PERCENT OF DESIGN STRENGTH, AS DETERMINED BY FIELD CURE CYLINDERS. IN ADDITION, SHORING SHALL NOT BE REMOVED SOONER THAN RECOMMENDED BY ACI 347R-88, SECTION 3.7.2.3. FORMWORK SHALL NOT BE REMOVED IN LESS THAN TEN (10) DAYS.

## PREFAB CONCRETE LINTELS:

UNLESS INDICATED OTHERWISE, ALL LINTELS TO BE "U" TYPE PREFAB CONCRETE UNITS EQUAL TO UNITS MANUFACTURED BY CAST\_CRETE CORP. AND PRESTRESSED (AND ADDITIONALLY REINFORCED AS REQUIRED) IN ACCORDANCE WITH CAST\_CRETE CORP. "DESIGN MANUAL", LATEST EDITION, FOR THE SPAN AND LOADING CONDITION RELATIVE TO LINTEL LOCATION. LINTEL SIZE IF NOT SHOWN ON THE PLANS SHALL BE 8#8-1B FOR OPENINGS LESS THAN 10 FEET AND 8#16-1B/1T FOR OPENINGS 10 FEET TO 20 FEET. PROVIDE 3" MINIMUM BEARING FOR LINTELS UNLESS NOTED OTHERWISE.

## WOOD:

SAWN LUMBER SHALL BE SOUTHERN PINE #2 WITH THE ALLOWABLE FIBER STRESSES FOR THE AWC NATIONAL DESIGN SPECIFICATION. ALL MANUFACTURED LUMBER SHALL BE 2.0E GLUED LAMINATED GEORGIA PACIFIC (OR EQUIV.) AND INSTALLED ACCORDING TO MANUFACTURE'S RECOMMENDATIONS. ALL HEADER/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 USF (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE SIMPSON HU OR 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 (ARGYLC-TIE) BY SIMPSON STRONG-TIE AND INSTALLED ACCORDING TO THE MANUFACTURE'S 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

ACG & 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)

ALL DECKS, GUARDS, RAILS, STAIRS AND OTHER ACCESSORY DECK COMPONENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AWC DCA6 PRESCRIPTIVE GUIDE FOR DECK CONSTRUCTION & THE 2023 FLORIDA BUILDING CODE, 8TH EDITION. ALL FASTENERS AND CONNECTORS EXPOSED TO SALT WATER OR LOCATED WITHIN 300 FEET OF A SALT WATER SHORE LINE SHALL BE STAINLESS STEEL GRADE 304 OR 316

ALL EXTERIOR WOOD WALLS WITHOUT OPENINGS SHALL BE CONSIDERED SHEAR WALLS. ALL WOOD DESIGN SHALL BE IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 & WITH THE FLORIDA BUILDING CODE, 2023.

PLYWOOD PANELS SHALL CONFORM TO THE REQUIREMENTS OF "U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD" OR APA PRP-108 PERFORMANCE STANDARDS. UNLESS OTHERWISE NOTED, PANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS.

PLYWOOD INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL SUB-FLOORING, ROOF, AND SHEARWALL SHEATHING SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. STAGGER ENDS OF ADJACENT PANELS 4"-0".

ROOF SHEATHING SHALL BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY FLYCLIPS. ATTACH PLYWOOD PANELS TO SUPPORTING MEMBERS WITH 10d NAILS SPACED 4" ON CENTER ALONG THE PANEL EDGES AND AT 6" ON CENTER ALONG INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.

SUB-FLOORING SHEATHING SHALL BE UNBLOCKED, EXCEPT AS INDICATED ON DRAWINGS. ATTACH PLYWOOD PANELS TO SUPPORTING MEMBERS WITH 8d NAILS SPACED 4" ON CENTER ALONG THE PANEL EDGES AND AT 6" ON CENTER ALONG INTERMEDIATE SUPPORTS, UNLESS NOTED OTHERWISE.

## PREFABRICATED WOOD TRUSSES:

SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW.

DESIGN AND MANUFACTURE IN ACCORDANCE WITH TPI "DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES", LATEST EDITION.

ROOF TRUSS LOADING: SEE TRUSS MANUFACTURES SIGNED AND SEAL TRUSS SHOP DRAWINGS FOR APPLICABLE TRUSS DESIGN LOADS. TRUSS LOADINGS SHALL BE BASED ON THE PROJECT'S DESIGN LOADS AND THE MINIMUM LOAD REQUIREMENTS SET FORTH BY ASCE 7-10 AND THE FLORIDA BUILDING CODE, 2023 RESIDENTIAL.

ALL TRUSS TO TRUSS CONNECTIONS TO BE DESIGNED BY TRUSS MANUFACTURER AND MADE USING TRUSS HANGERS. TRUSS DIAGRAMS, IF SHOWN, ARE DIAGRAMMATIC ONLY. TRUSS DESIGNER TO DETERMINE AND ESTABLISH EXACT HEIGHT, LENGTH, LOCATION, SPACING, AND WEB MEMBER FOR EACH TRUSS. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL ITEMS INCLUDING AIR HANDLER LOCATIONS, MECHANICAL ROOMS AND DUCT SPACE AND ROUTING.

BUILDER SHALL COORDINATE WITH TRUSS DESIGNER FOR PERMANENT TRUSS BRACING. IF NO BRACING INFORMATION IS PROVIDED, BOTTOM CHORD LATERAL BRACING SHALL BE CONTINUOUS FROM ONE END OF THE BUILDING TO THE OTHER AND SHOULD OVERLAP AT LEAST ONE TRUSS SPACE FOR CONTINUITY. LATERAL BRACING SHALL BE NAILED TO EACH TRUSS WITH A MIN. OF (2) 16d NAILS INCLUDING INTERMEDIATE TRUSSES. SEE TRUSS SHOP DRAWINGS FOR OTHER DETAILS AND SPECIFICATIONS FOR BRACING.

## REINFORCING STEEL:

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FOR DEFORMED BAR AND ASTM A185 FOR SMOOTH WELDED WIRE FABRIC (WVF), 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. "NET-STICKING" OF REINFORCING IS PROHIBITED.

REQUIRED CONCRETE COVER FOR REINFORCING STEEL (UNLESS NOTED OTHERWISE):

FOOTINGS	3" BOTTOM AND SIDES, 2" TOP
SLABS	3/4" 1-1/2" TO TIES, 2" TOP
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) #8 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.

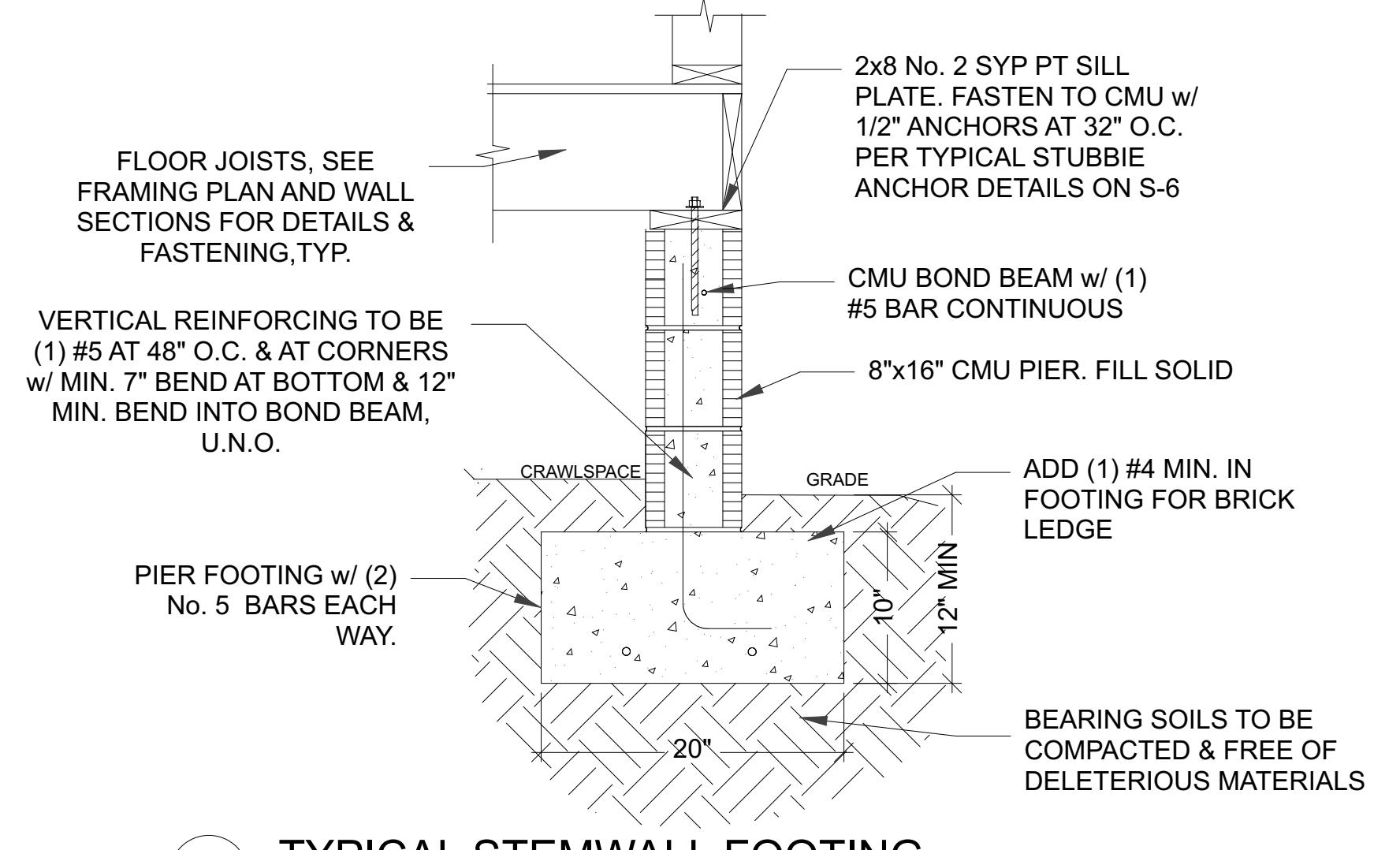
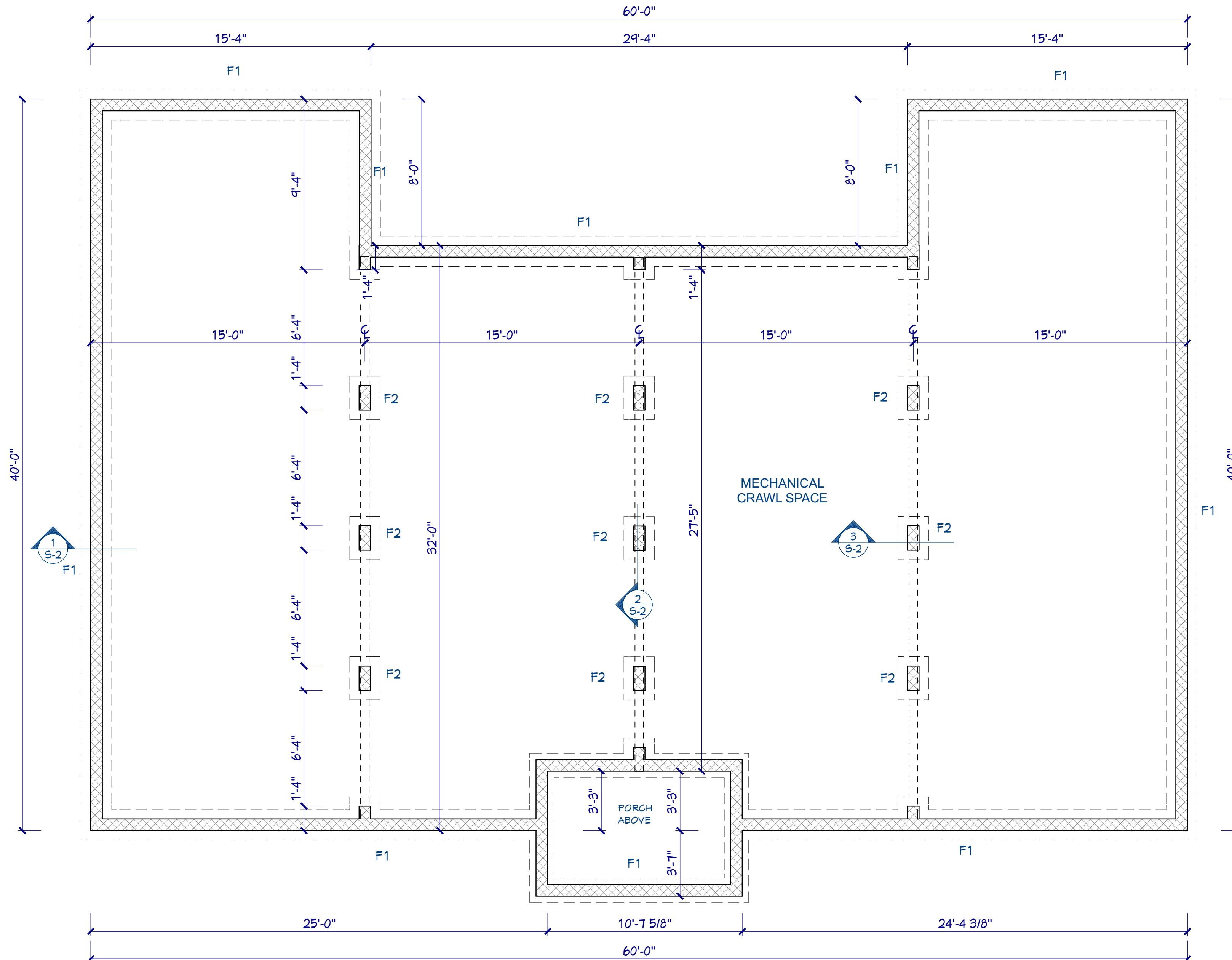
DOVEL ALL WALLS AND COLUMNS TO FOOTINGS WITH BAR SIZE AND SPACING TO MATCH VERTICAL REINFORCING UNLESS OTHERWISE SHOWN.

## MASONRY WALLS:

MASONRY UNITS SHALL MEET ASTM C90, TYPE 2. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF Fm=1500. MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C210. GROUT SHALL BE 2000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IN ACCORDANCE WITH ASTM C476. GROUT SHALL CONSIST OF A MIXTURE OF CEMENTITIOUS MATERIALS AND AGGREGATE TO WHICH SUFFICIENT WATER HAS BEEN ADDED TO GAUGE THE MIXTURE TO FLOW WITHOUT SEGREGATION OF THE CONSTITUENTS. GROUT SHALL HAVE A MAX. COURSE ASGR. SIZE OF 3/8" & SHALL BE PLACED WITH A SLUMP OF 6 TO 11 INCHES. ALL CELLS CONTAINING VERTICAL BARS, BOND BEAMS, AND ALL CELLS BELOW GRADE SHALL BE FILLED WITH GROUT. MAXIMUM HEIGHT OF GROUT POUR ALLOWED IS 5'-0" UNLESS CLEAN-OUT OPENING IS PROVIDED AT BOTTOM OF CELLS TO BE FILLED. LOCATE CLEAN-OUT OPENINGS IN AREAS NOT EXPOSED TO VIEW. CLEAN OUT OPENINGS SHALL HAVE A MIN. OPENING DIMENSION OF 3 INCHES.

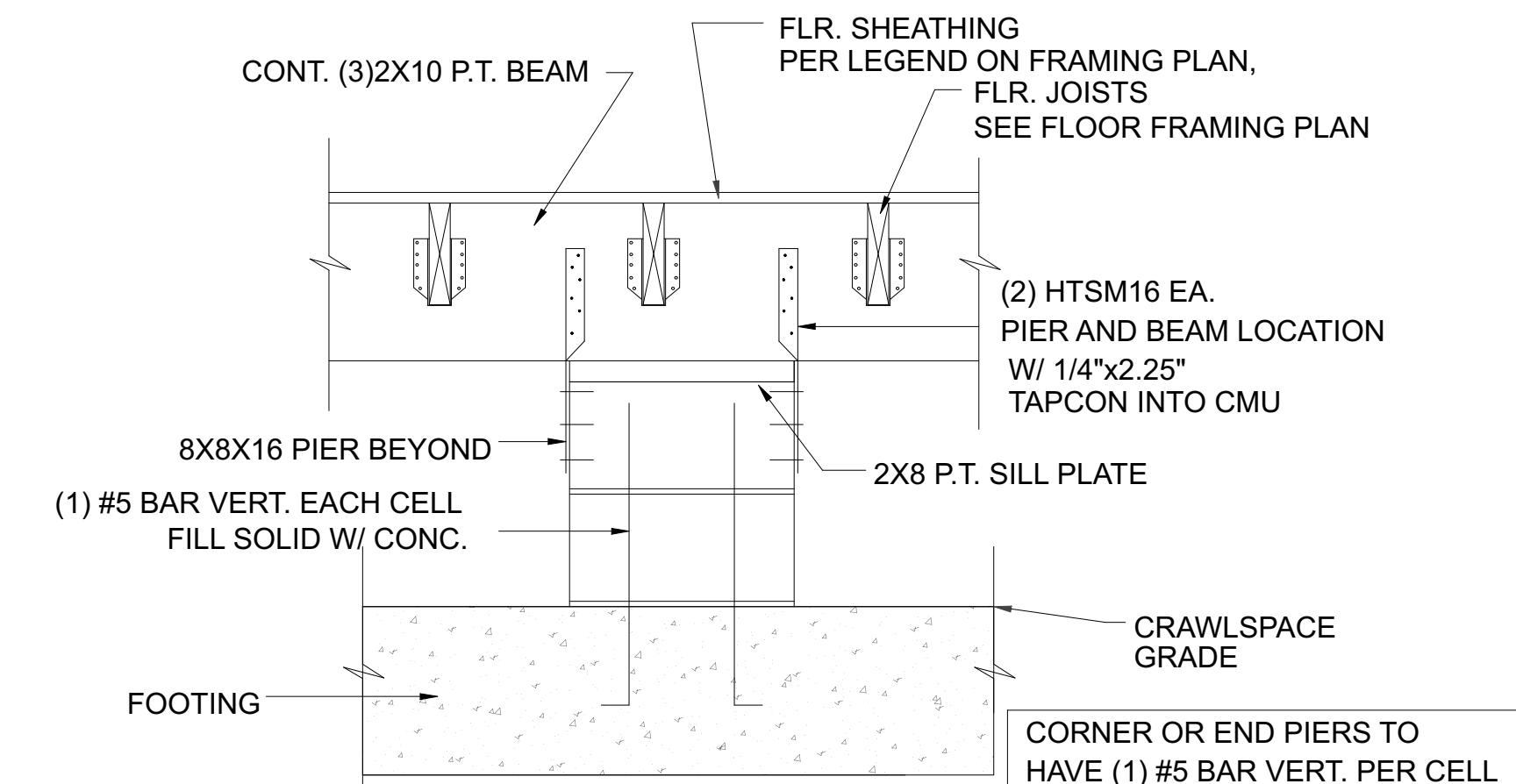
UNLESS NOTED OTHERWISE EIGHT INCH MASONRY WALLS SHALL BE PARTIALLY REINFORCED MASONRY WALL CONSTRUCTION WITH #5 AT 48 INCH O.C. IN GROUT FILLED CELLS. ADD (1) #5 REINFORCING BAR EACH SIDE OF OPENINGS EXCEEDING 3 FEET.

PROVIDE REINFORCING BARS AT CORNERS, INTERSECTIONS, AND EACH SIDE OF OPENINGS. PROVIDE (2) REINFORCING BARS EACH SIDE OF OPENINGS OVER 4 FEET WIDE, AND AS SHOWN ON THE PLANS. PROVIDE HOOKED DOWELS INTO FOOTINGS AND STRUCTURE ABOVE AND/OR BELOW TO PROVIDE CONTINUITY. PROVIDE 9 GAGE GALVANIZED HORIZONTAL JOINT REINFORCING (DUR-O-NAIL OR ENGINEER-APPROVED EQUAL) AT 16" O.C.

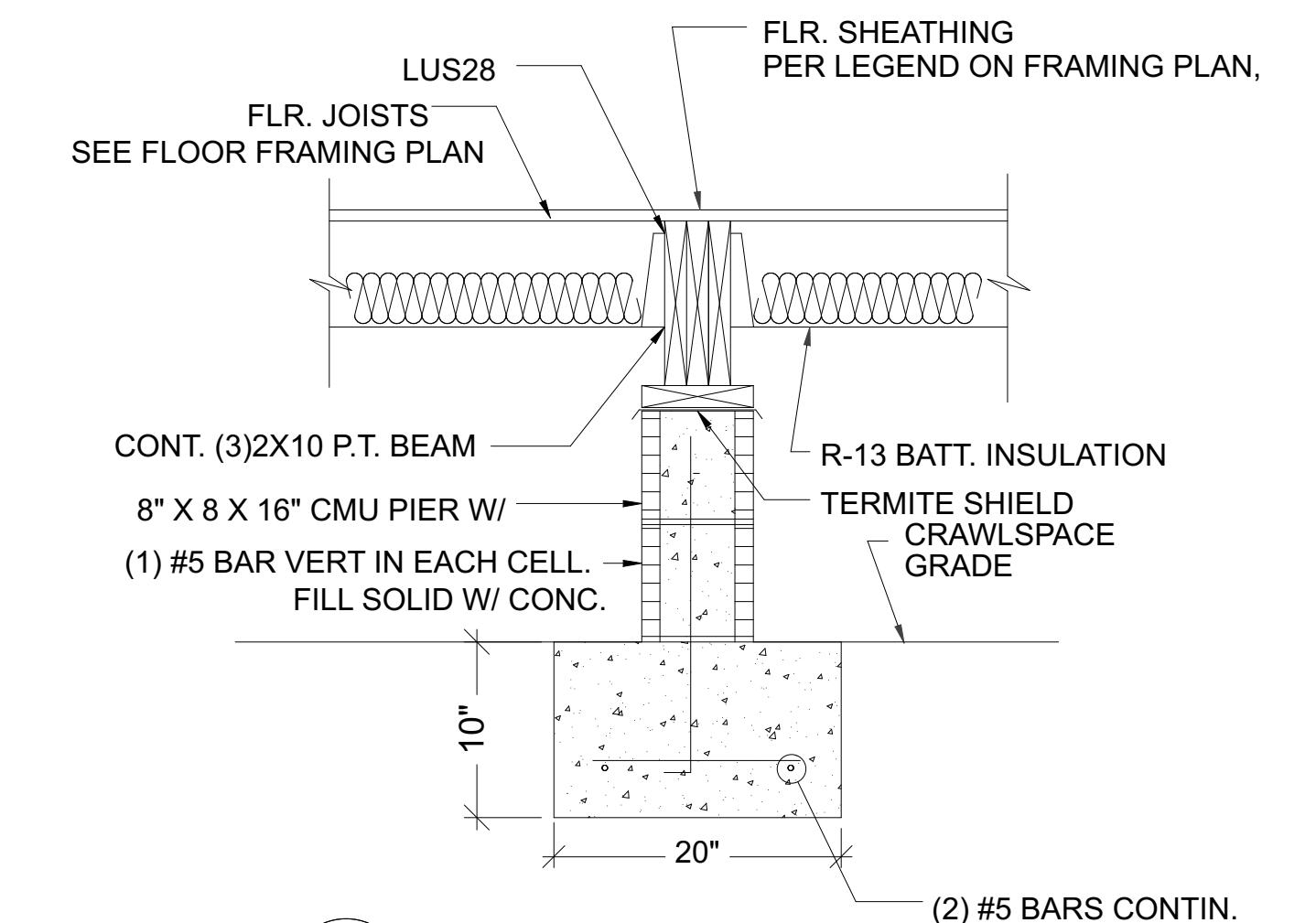


**1 TYPICAL STEMWALL FOOTING**

NOTE: CONTACT ENGINEER IF STEMWALL EXCEEDS 48", FROM T.O.S TO FOOTER (6 COURSES).



**2 PIER / BEAM CONNECTION**



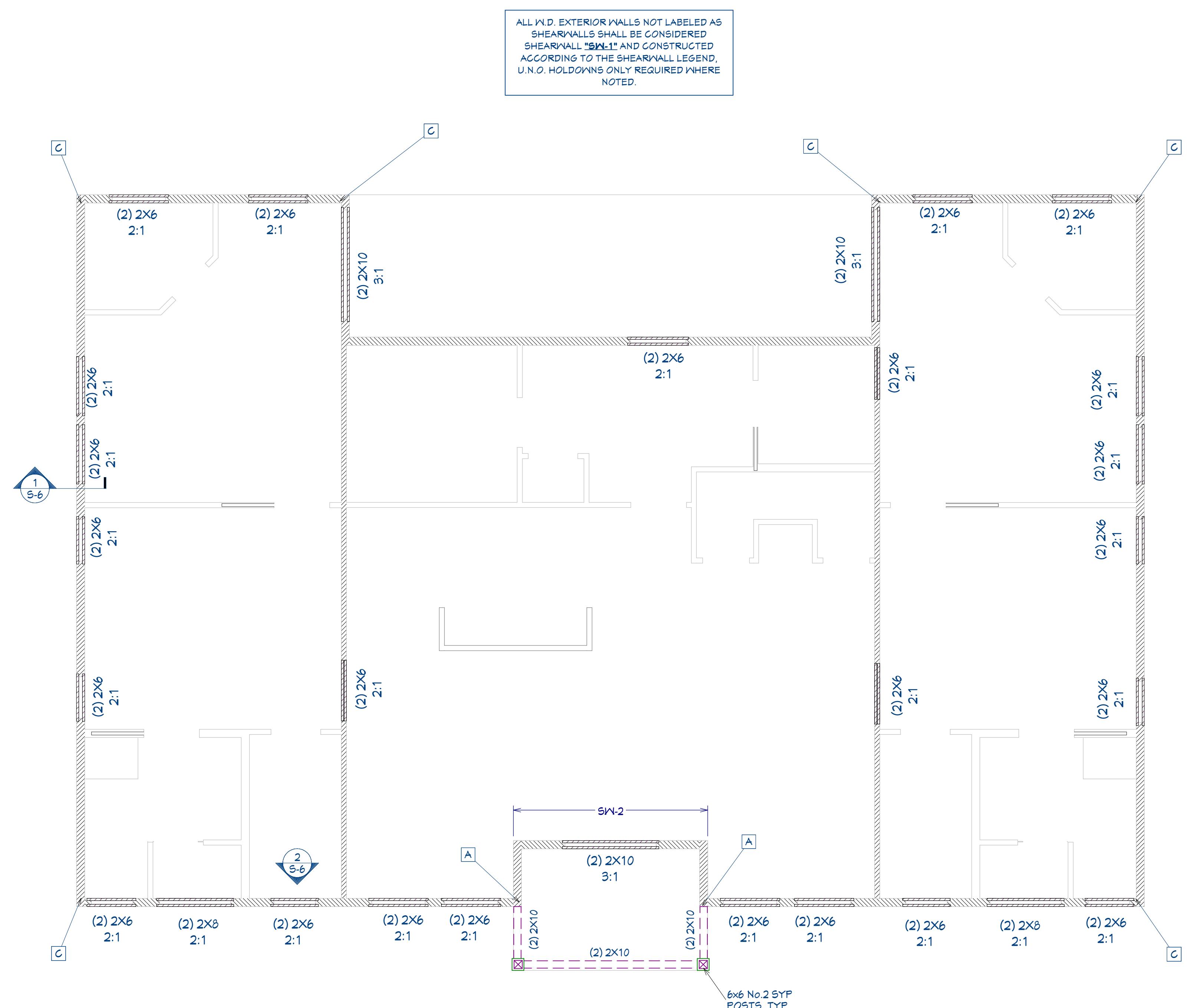
**3 CMU PIER DETAIL**

**FOUNDATION PLAN**

NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32277

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-1156  
FL C.A.# 32227

PROJECT #:24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024



### FRAMING PLAN

SCALE: 3/8" = 1'-0"

### SHEATHING LEGEND

TYPE	SHEATHING	FASTENERS	SHEATHING FASTENING		
			EDGES	FIELD	GABLE ENDS
ROOF	15/32" OSB/PLY.	8d RING SHANK	6" O.C.	6" O.C.	4" O.C. FIELD & EDGES, 4' FROM ROOF
FLOOR	23/32" OSB/PLY.	10d COM. (GLUED & NAILED)	6" O.C.	6" O.C.	
PORCH CLG.	3/8" OSB/PLY.	8d COM./BOX	3" O.C.	6" O.C.	EDGE/END WALL
WALLS	7/16" (MIN.) OSB/PLY.	8d COM./BOX (U.N.O.)			PER SHEAR WALL LEGEND.

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

### SHEAR WALL LEGEND

ID	SHEATHING	FASTENING			SILL ANCHORS (STUBBIES)	# END STUDS/HOLDOWNS
		VERTICAL EDGES	HORIZONTAL EDGES	FIELD		
SW-1	7/16"	8d AT 6"	8d AT 6"	8d AT 12"	32" O.C.	2/DTT2Z
SW-2	7/16"	8d AT 3"	8d AT 3"	8d AT 6"	24" O.C.	2/DTT2Z

- ALL SHEATHING MUST BE MINIMUM OF 7/16" RATED OSB OR PLYWOOD & FASTENED PER THE TYPICAL DETAILS.
- SEATING 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.
- A MINIMUM GAP OF 1/8" AT SHEATHING JOINTS MUST BE MAINTAINED.
- HOLDOWNS MUST BE PLACED AT EACH END OF SHEARWALL, U.N.O. SEE FRAMING PLAN/DETAILS FOR HOLDOWNS TYPES, LOCATIONS, & INSTALLATION Specs.
- MINIMUM END STUDS & HOLDOWNS FOR EACH SHEAR WALL SECTION ARE SHOWN IN TABLE ABOVE AND SHALL BE CONSTRUCTED PER THE TYPICAL CORNER FRAMING DETAIL.
- ALL SILL ANCHORS(STUBBIES) SHALL BE A MIN. OF 1/2" IN DIA. w/ 3" x 3" x 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 IS MAINTAINED.
- EXTERIOR STUCCO FINISH REQUIRES A MIN. 15/32" RATED SHEATHING INSTALLED HORIZONTALLY w/ 2x FLAT WISE BLOCKED EDGES.
- SHEARWALL FASTENING SHOULD BE CONSTRUCTED PER THE TYPICAL SHEATHING FASTENING DETAILS AND NOTES.

### FRAMING LEGEND

2X4/6 No. 1/2 SPF STUDS AT 16" O.C. STUDS w/ (1) SDWC15600 TO TOP PLT. & (2) SDWC15450 SCREWS TO BOT. PLT. AT 32" O.C. 1/2" STUBBIE ANCHORS AT 48" O.C. SEE SW. LEGEND FOR DESIGNATED S.W. Specs.

2X4/6 No. 1/2 SPF STUDS AT 16" O.C. STUDS w/ (1) SDWC15600 TO TOP PLT. & (1) SDWC15450 SCREW TO BOT. PLT. AT 16" O.C. 1/2" STUBBIE ANCHORS AT 32" O.C. SEE SW. LEGEND FOR DESIGNATED S.W. Specs.

OPENING HEADER BEAMS

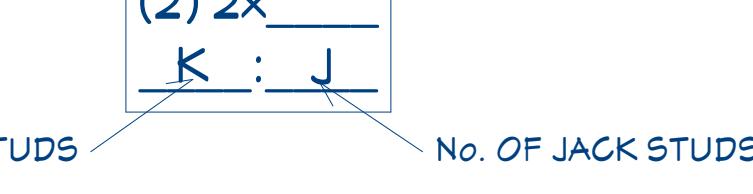
PORCH BEAMS & OTHERS

SHEAR WALL SEGMENTS

GIRDER ROOF/FLOOR TRUSS ABV.

POST/COLUMNS

No. OF PLIES



A  
PLACE STUD GROUP UNDER PORCH BEAM BEARING IN EXTERIOR WALL. NOTCH TOP OF BEAM MAX 3" AT TOP PLT. BEAM TO STUD GROUP. SEE DETAIL 3/5-6 FOR ALL OTHER FASTENING Specs

B  
PLACE 3-PLY STUD GROUP UNDER PORCH BEAM BEARING. FASTEN STUDS T/G w/ 8d NAILS AT 6" O.C. STAGG. EACH SIDE. FASTEN STUDS TO FND. w/ (1) DTT2Z

C  
INSTALL SIMPSON DTT2Z HOLDOWN AT BASE OF CORNER OR OPENING KING STUD GROUP WHERE SHOWN. INSTALL PER TYPICAL ANCHOR DETAILS (DETAIL 3/5-6)

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-7156  
FL C.A.#2227

PROJECT #: 24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024

S-3

Number	Date	Revised By	Description

FRAMING PLAN  
NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32277

Number	Date	Revised By	Description



## FLOOR FRAMING

NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32227

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-7156  
FL C.A.# 22027

PROJECT #:24-1063

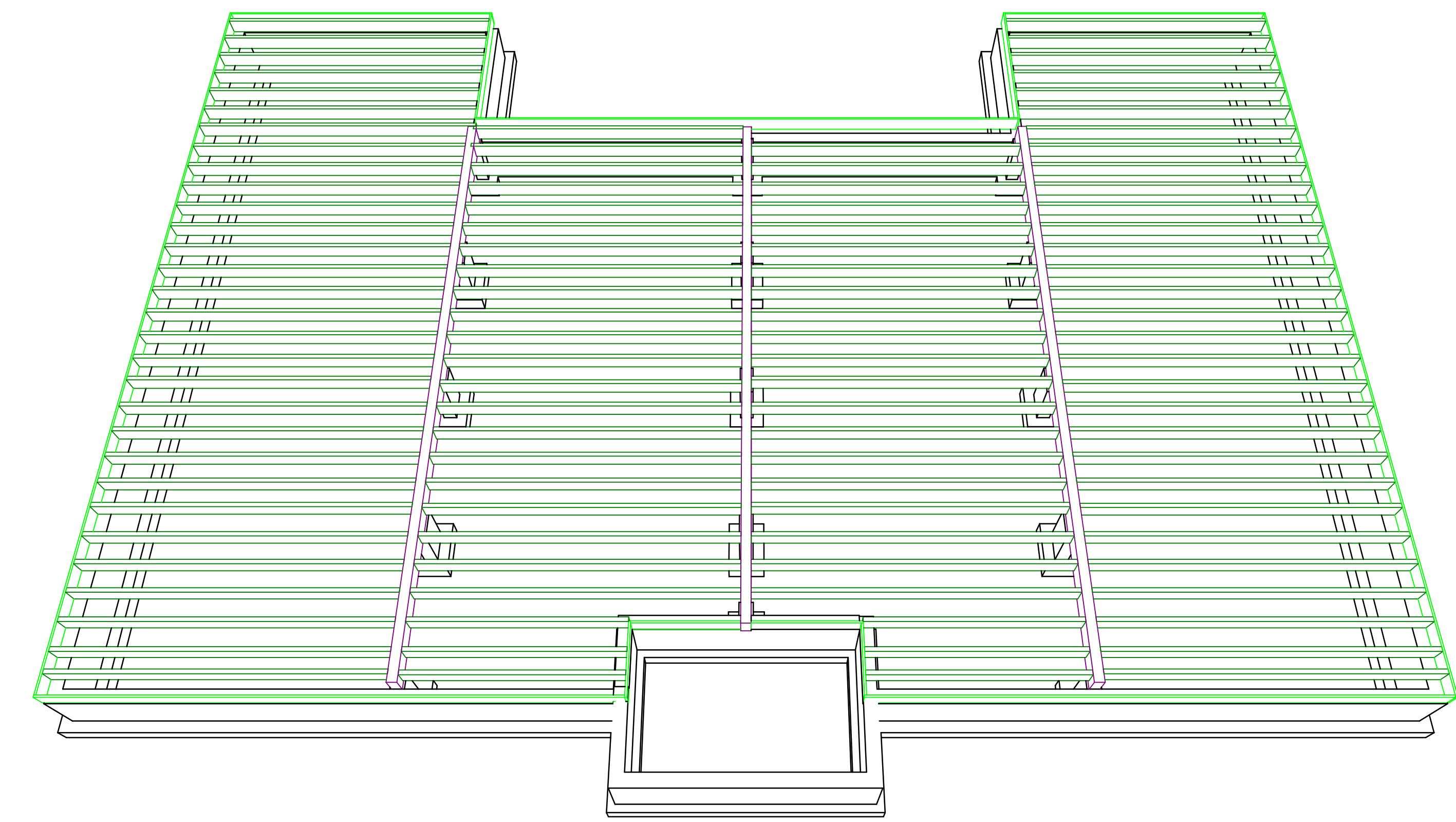
DESIGNED: KCM

DRAWN: KCM

SCALE: AS NOTED

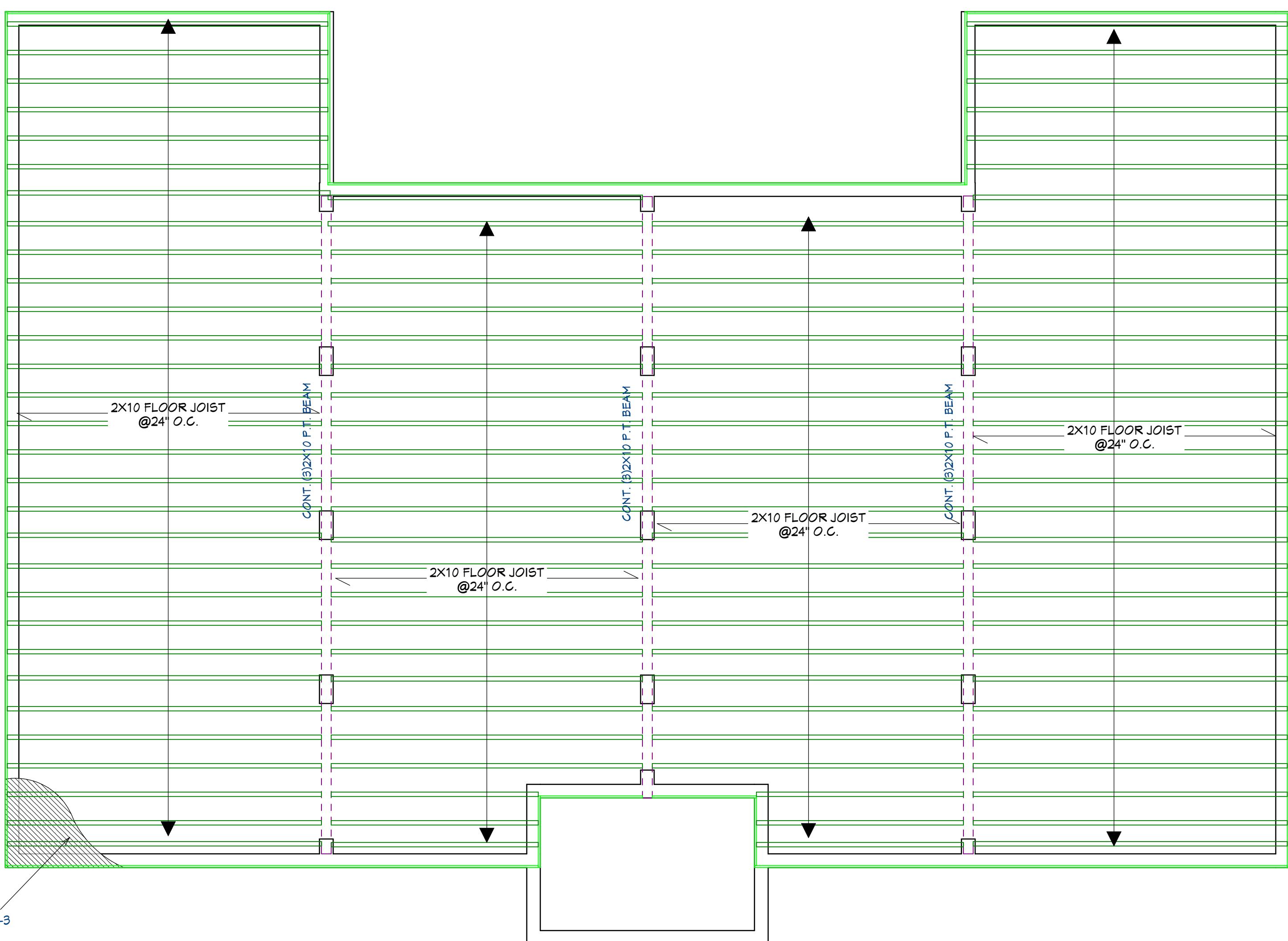
DATE: 5/9/2024

S-4



## FLOOR FRAMING ISO.

SCALE: N.T.S.



### 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 R102.3.5 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. BEHIND 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 SBGA 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 2x6 NO. 2 SYP FASTENED TO EACH TRUSS/RAFTER BELOW w/ (3) 1 1/4"X4 SDS SCREWS.
- 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) 16d NAILS AT EACH END.
- 6 COLLAR TIES SHALL NOT TO BE FASTENED HIGHER THAN 2/3 OVERALL ROOF RAFTER HEIGHT.

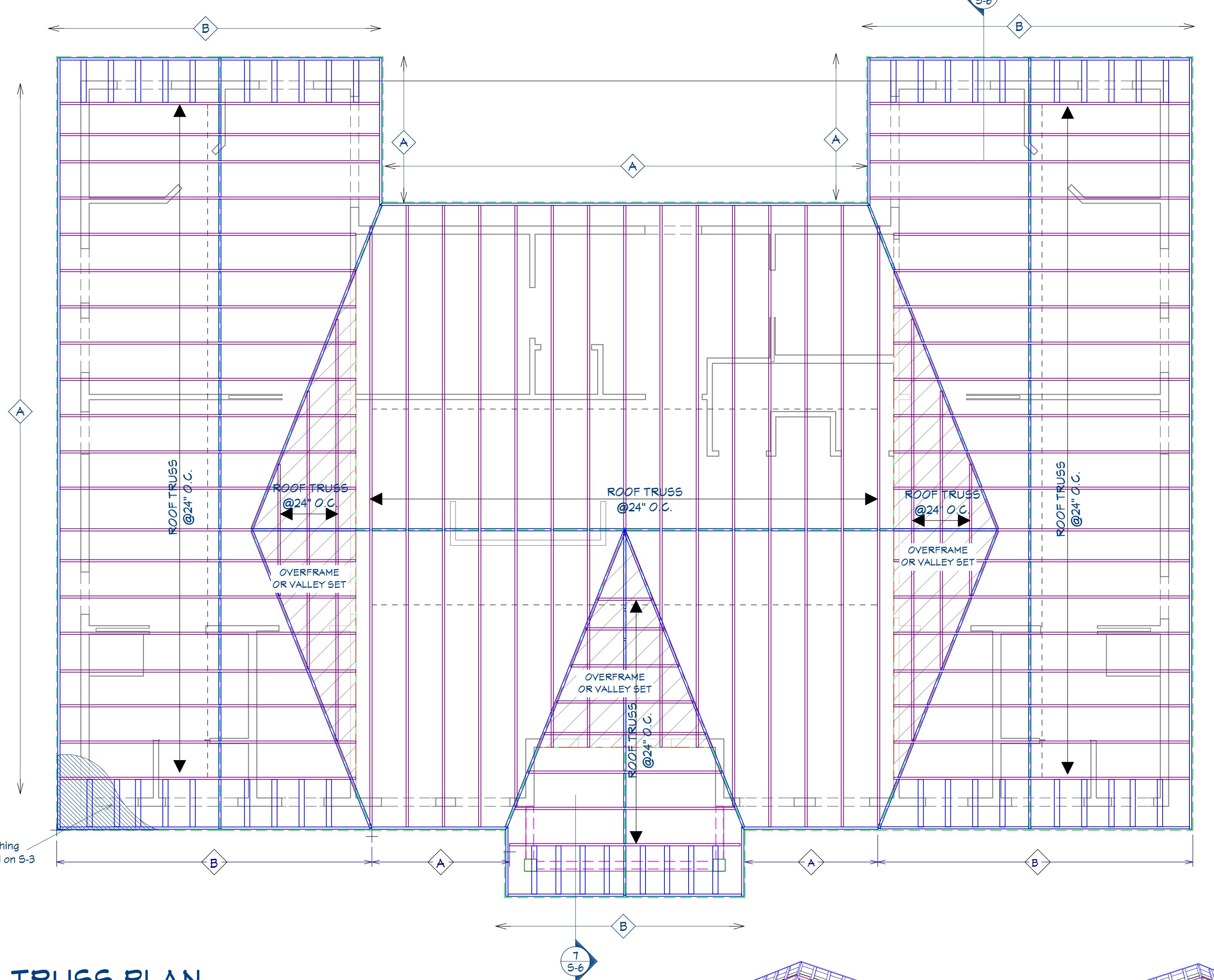
### ROOF & FLOOR FRAMING LEGEND

- ROOF TRUSSES
- 2x4 OUTLOOKERS AT 24" O.C.
- FLR. GIRDER TRUSSES
- UPLIFT CONNECTOR CALLOUT
- TRUSS BRACING(Per PLAN & SHOP DRAWINGS)

### UPLIFT CONNECTOR LEGEND

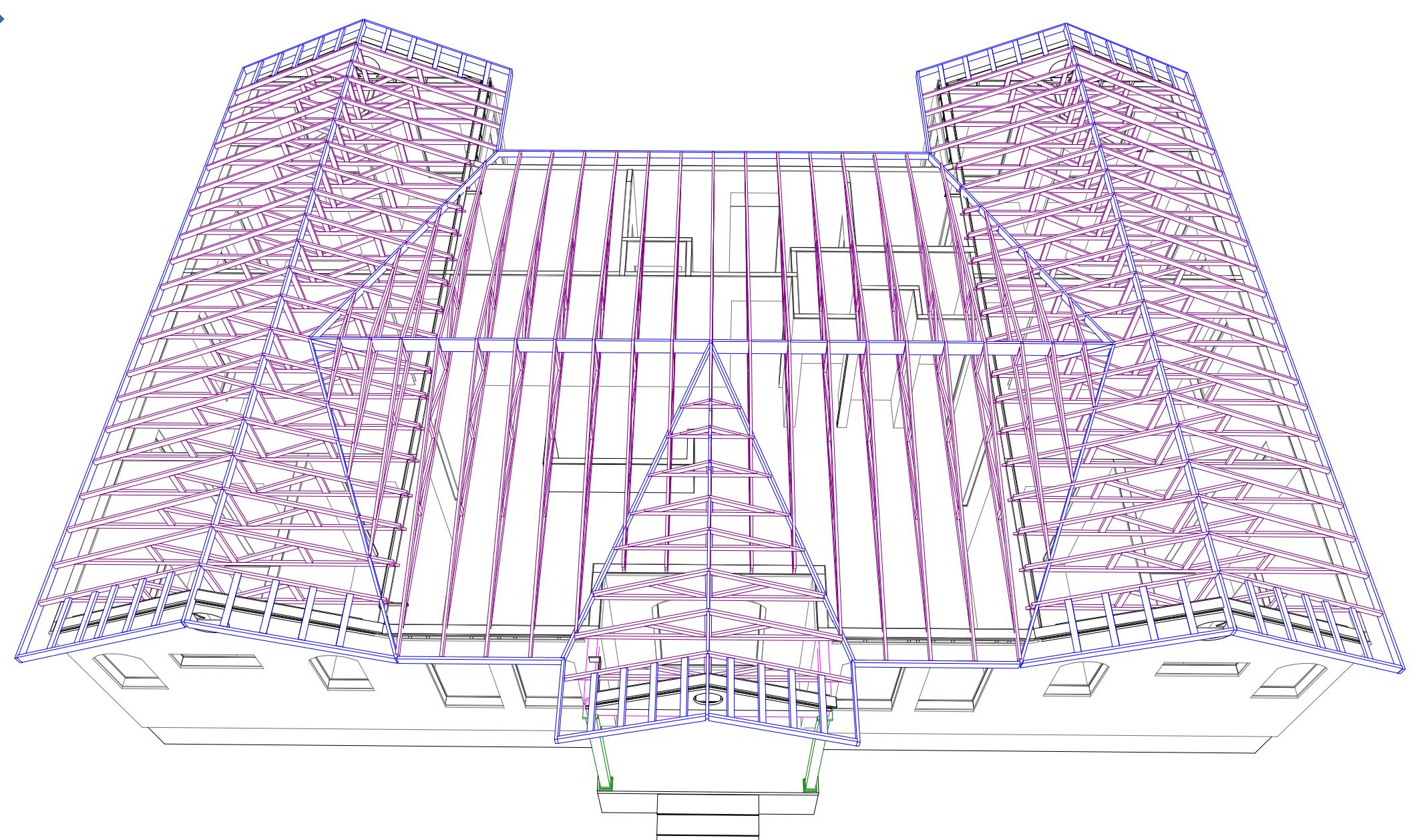
- A** SIMPSON SDWC15600 TRUSS SCREWS THROUGH TOP PLATES/HEADERS INTO TRUSSES. INSTALL PER DETAIL 1 THROUGH 4 ON S-7 (605# UPLIFT)
- B** SIMPSON SDWC15600 TRUSS SCREWS AT 32" O.C. TO GABLE END TRUSS
- C** DOUBLE SIMPSON HTS16 TWIST STRAPS TO GIRDER TRUSS AND STUD GROUP BELOW. FILL ALL HOLES w/ 10d NAILS.

NOTES:  
 1 SEE APPROVED TRUSS SHOP DRAWINGS FOR TRUSS TO TRUSS CONNECTORS.  
 2 MULTI-PLY TRUSSES SHALL HAVE SDWC15600 SCREWS INSTALLED PER PLY (SINGLE OR DOUBLE AS SPECIFIED)



**TRUSS PLAN**

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



**TRUSS LAYOUT ISO.**  
SCALE: N.T.S.

**TRUSS PLAN**  
NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32227

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-7156  
FL C.A.# 220227

PROJECT #: 24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024

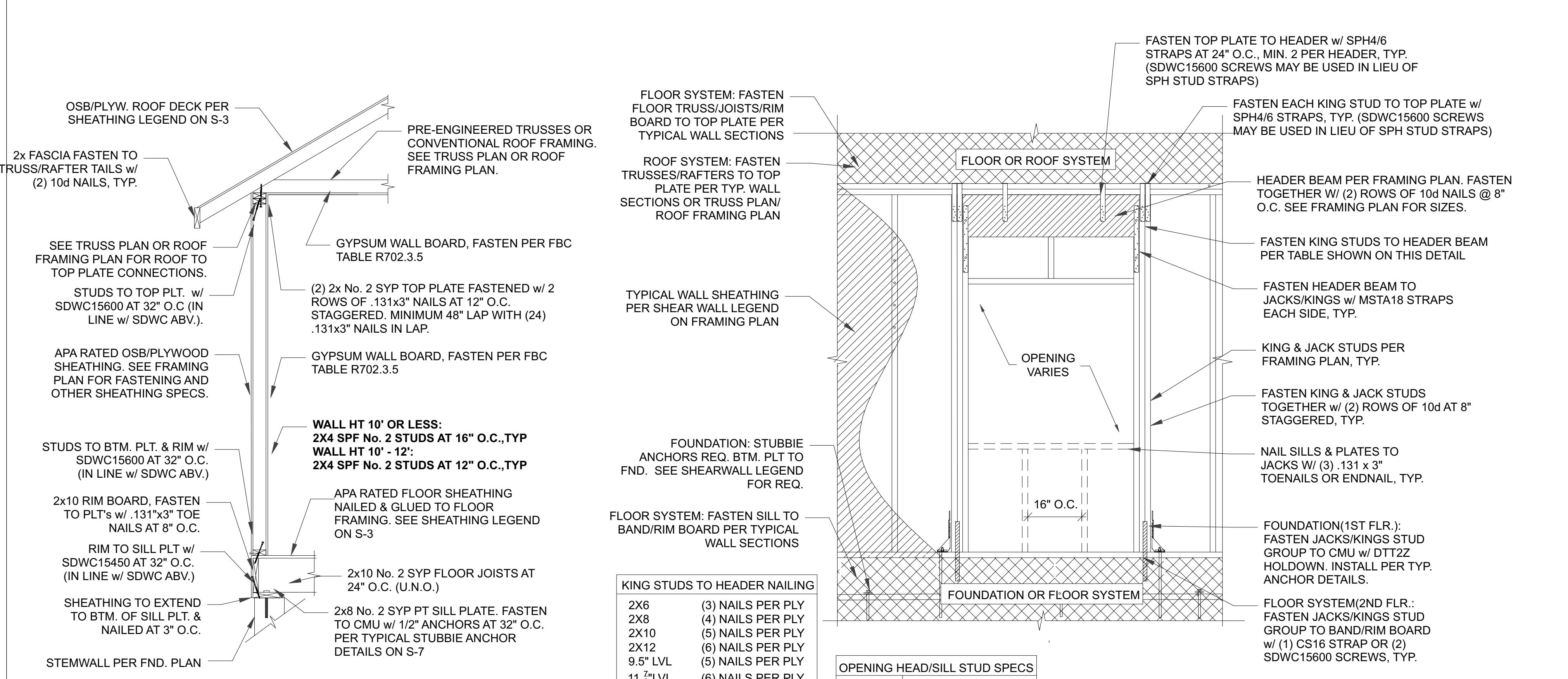
## FRAMING DETAILS

NEW SINGLE FAMILY  
O'EDENFIELD ROAD  
JACKSONVILLE, FL 32277

MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
FL C.A.#32277

PROJECT #:24-1063  
DESIGNED: KCM  
DRAWN: KCM  
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DATE: 5/9/2024

S-6



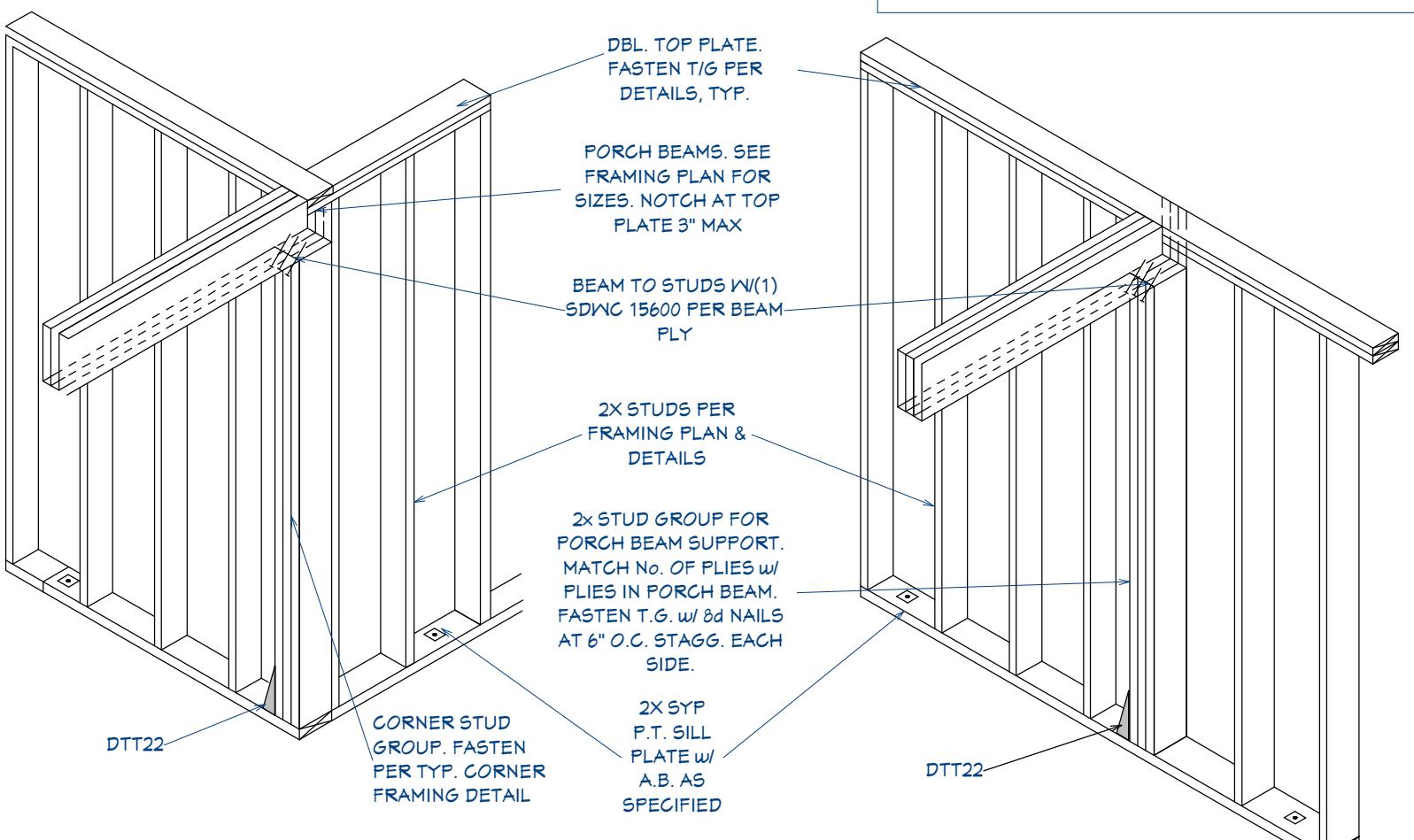
### 1 TYPICAL WALL SECTION

NOTE: DETAIL TO BE USED FOR BOTH WINDOW AND DOOR OPENINGS.

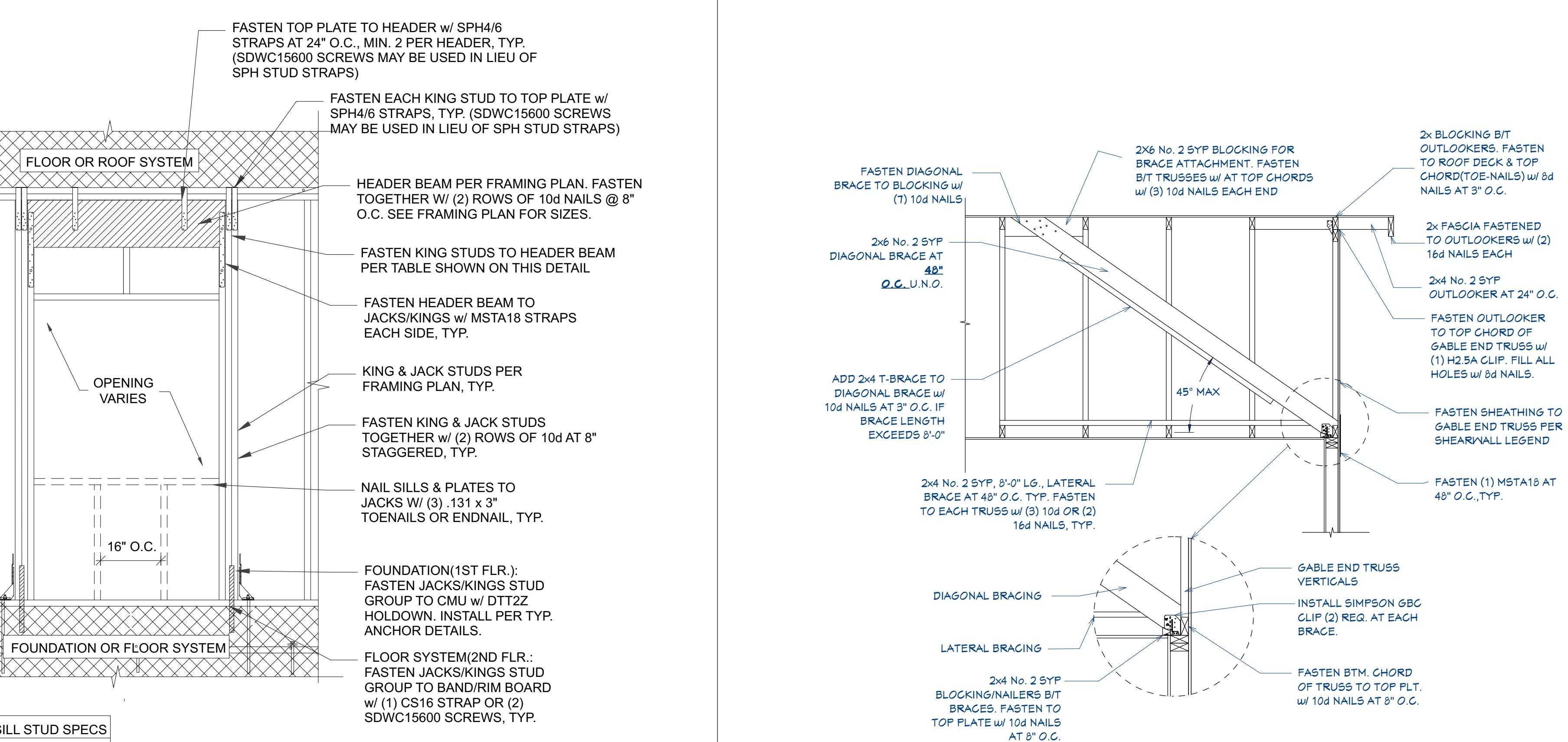
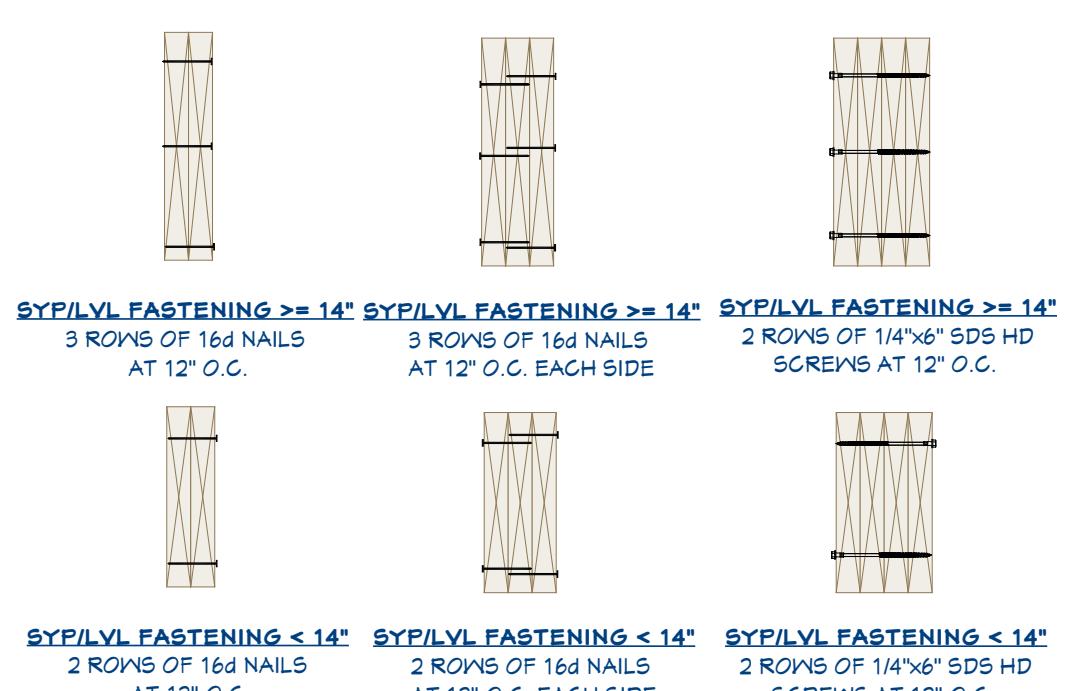
**ALL SDWC15600/15450 TOP PLATE TRUSSES AND STUDS TO TOP/BOTTOM PLATE FASTENING PER DETAILS ON S-7(STUD TO PLT.'S WIDE FACE ONLY)**

OPENING WIDTH	ATTACHMENT
0'-8"	(3) .131x3" TOE-NAILS
8'-12'	(6) .131x3" TOE-NAILS
12'-18'	(2) A35 CLIPS

2-PLY HEAD/SILL STUDS: 6'-10'  
3-PLY HEAD/SILL STUDS: 10'-18'

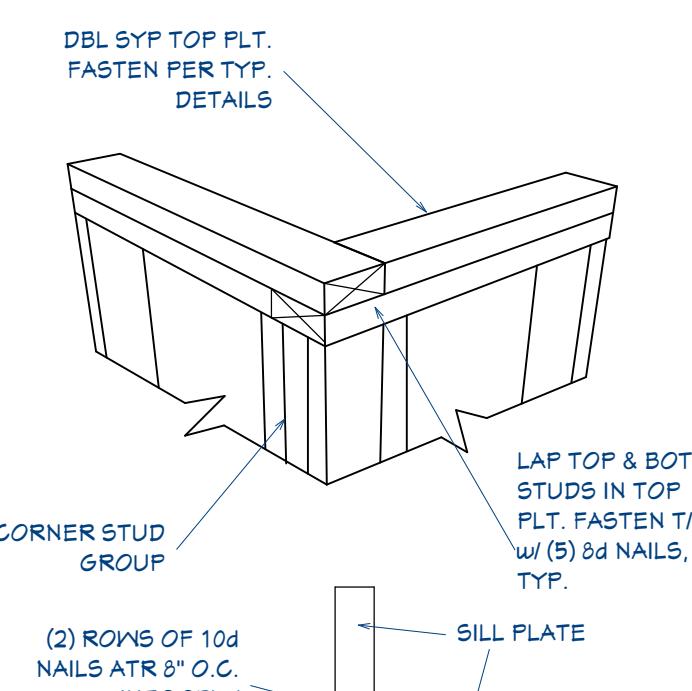


### 3 PORCH BEAM TO WALL FRAMING

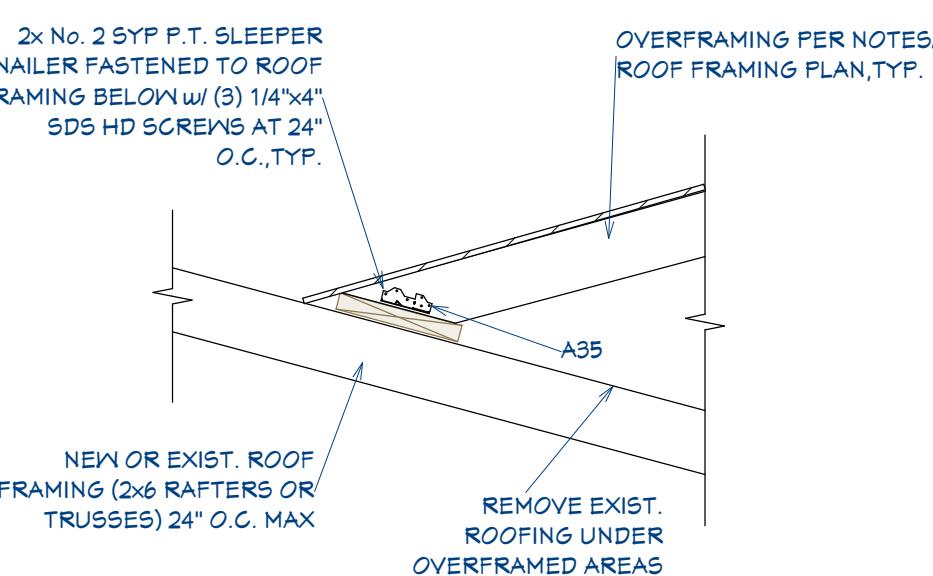


### 2 TYPICAL HEADER DETAIL

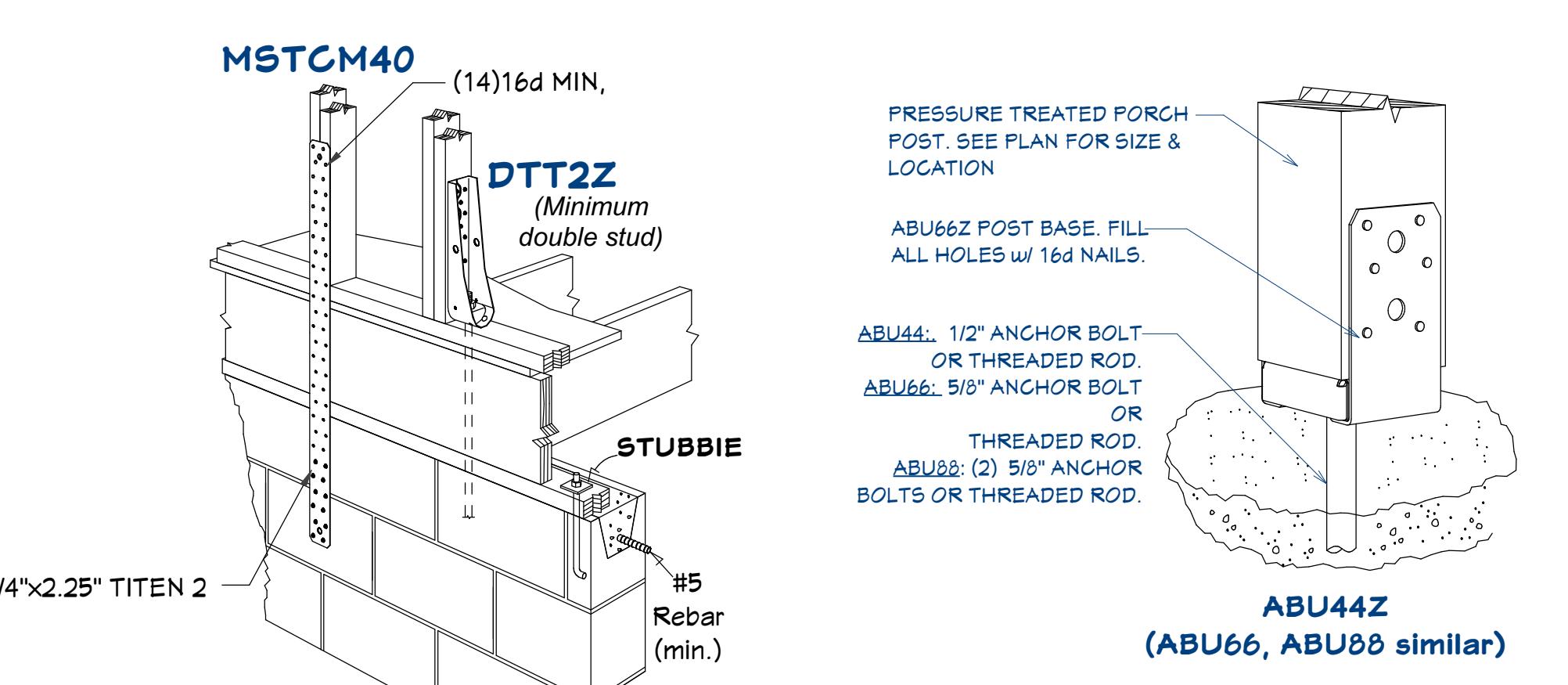
NOTE: DETAIL TO BE USED FOR BOTH WINDOW AND DOOR OPENINGS.



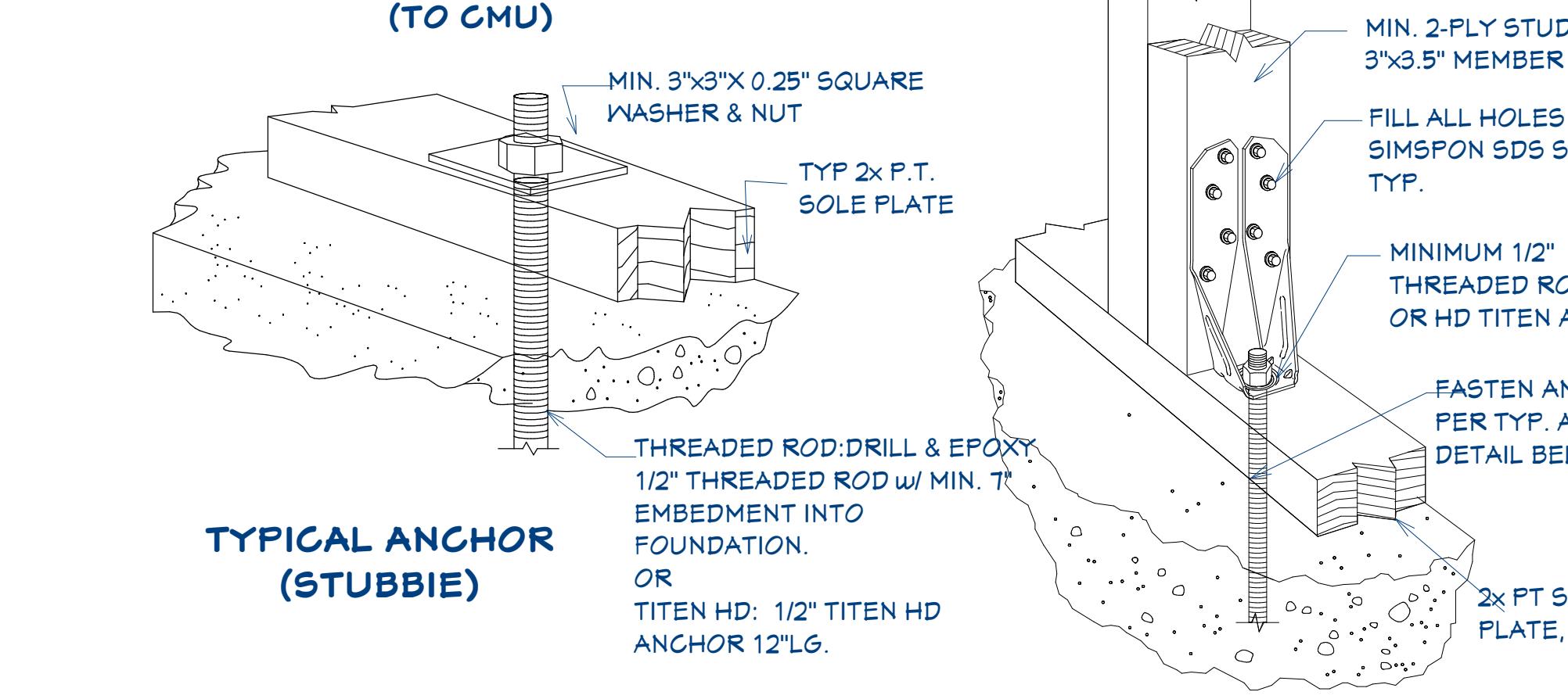
### 5 CORNER STUD FRAMING



### 6 TYP. ROOF OVER FRAMING



### 7 GABLE END BRACING DETAIL



### 8 TYPICAL ANCHOR DETAILS

Number	Date	Revised By	Description

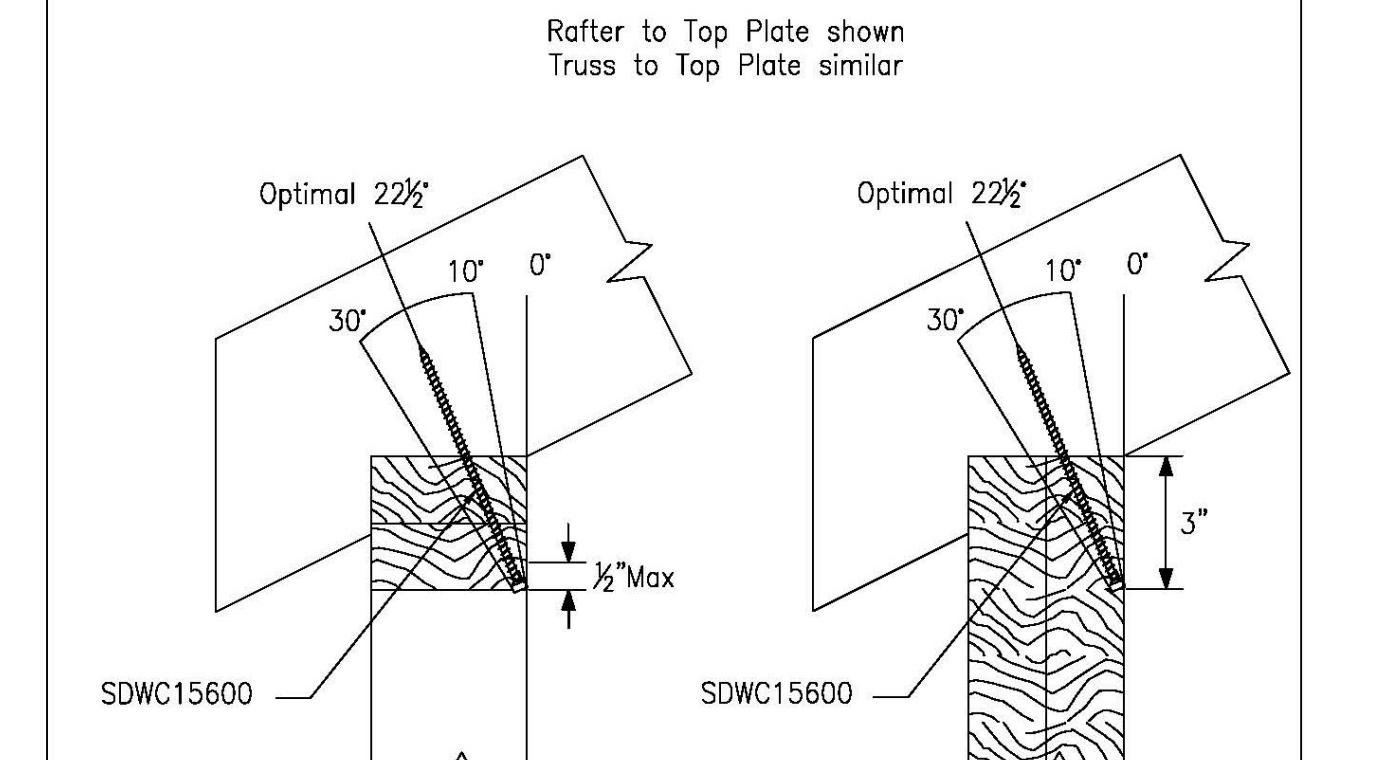
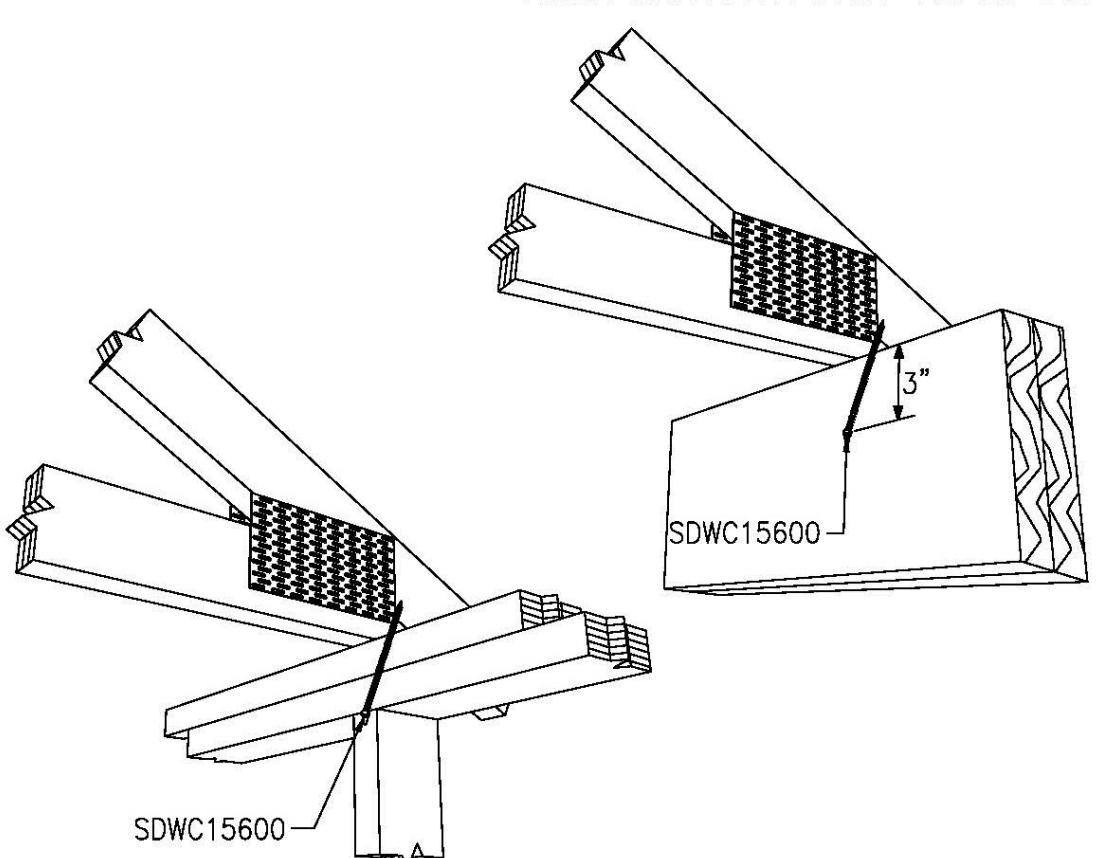
## FRAMING DETAILS

NEW SINGLE FAMILY  
0 EDENFIELD ROAD  
JACKSONVILLE, FL 32227

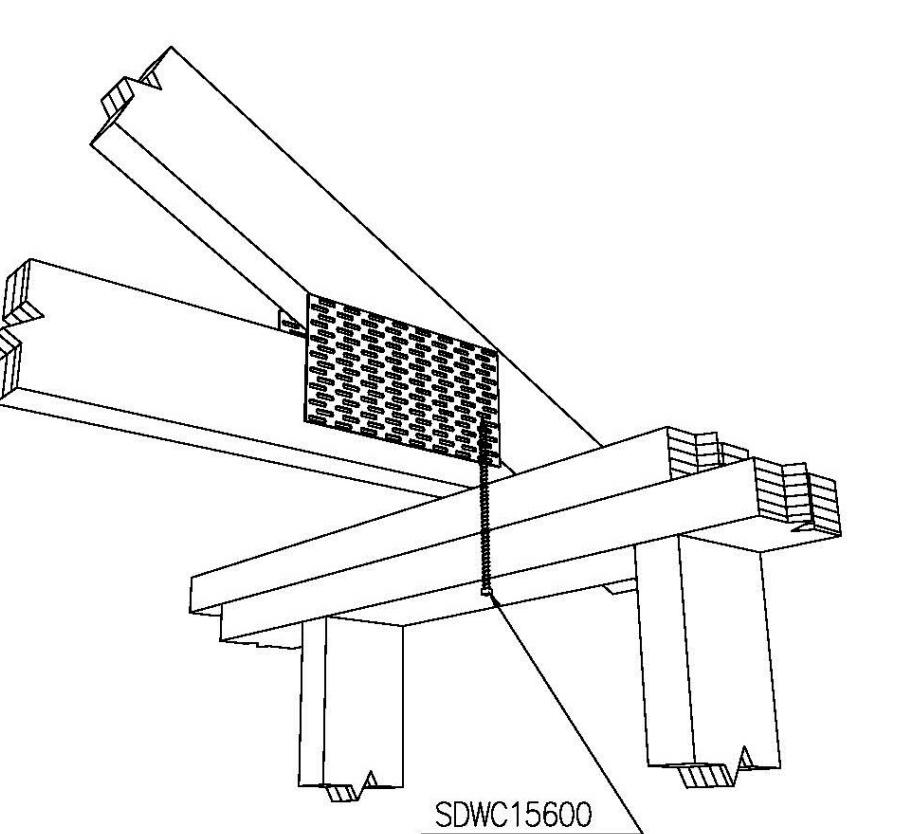
MARTIN ENGINEERING, LLC  
450 STATE ROAD 13 N. #106-387  
JACKSONVILLE, FL 32259  
404-611-1156  
FL C.A.# 2227

PROJECT #: 24-1063  
DESIGNED: KCM  
DRAWN: KCM  
SCALE: AS NOTED  
DATE: 5/9/2024

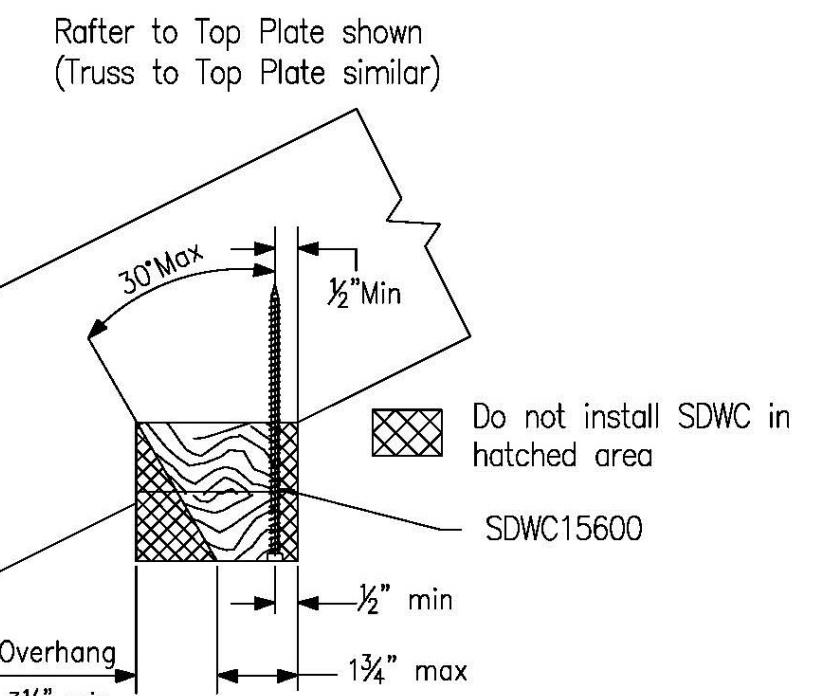
CODES: SDWC15600; IAPMO-UES ER-262



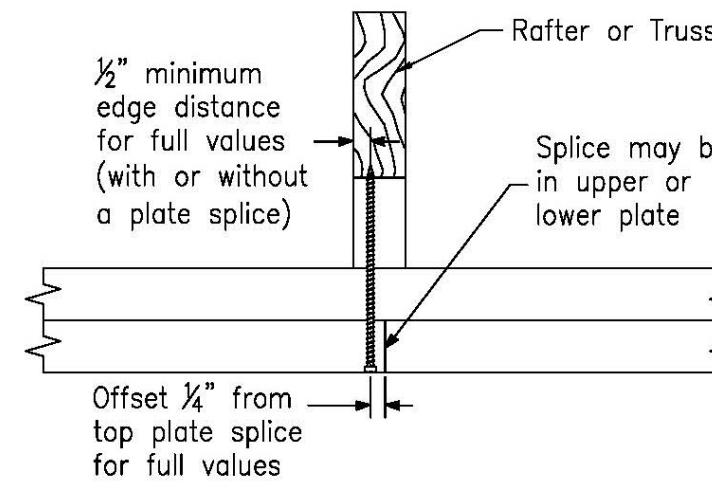
- Note:  
1. Sloped-roof rafters may be sloped up to and including a 12:12 pitch and must be "birdsmouth" cut.  
2. Reference detail 4 for installation instructions.



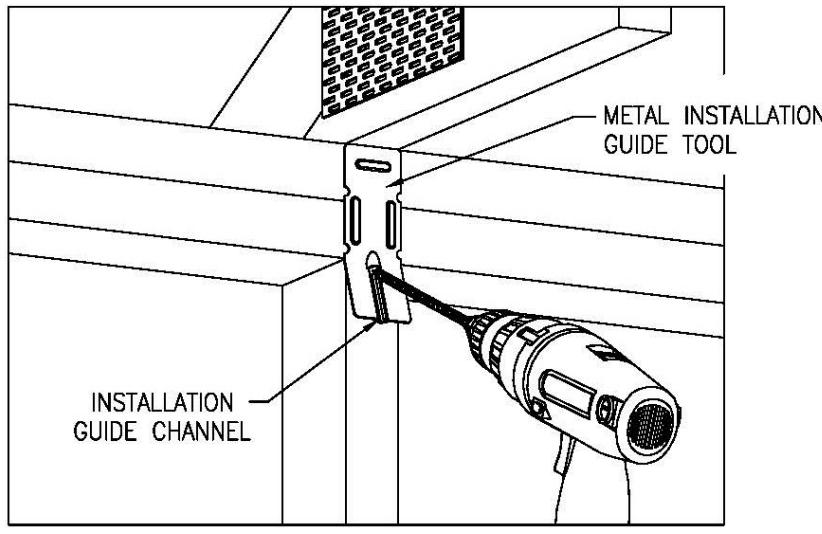
Note: Reference detail 2a for installation angle limit



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



### 1 SINGLE SDWC ROOF TO WALL OR BEAM INSTALLATION

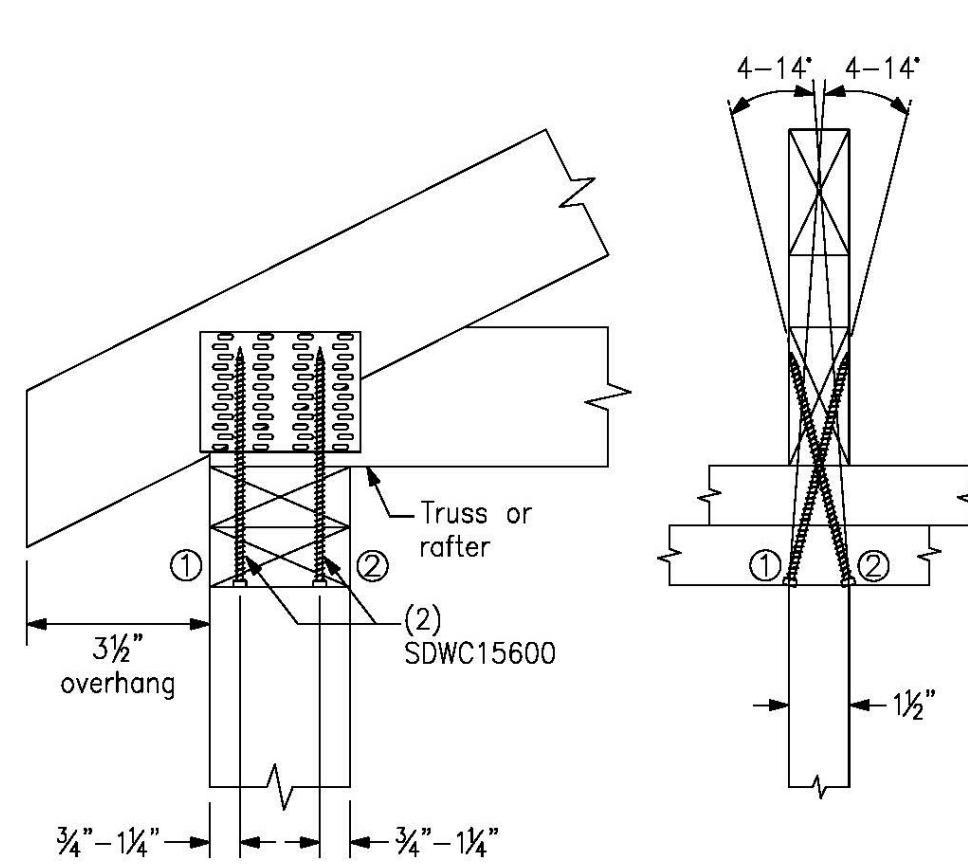


Step 1 - Align the metal installation guide tool (included) with the truss or rafter, and drive the tip of the Strong-Drive SDWC to engage the threads.

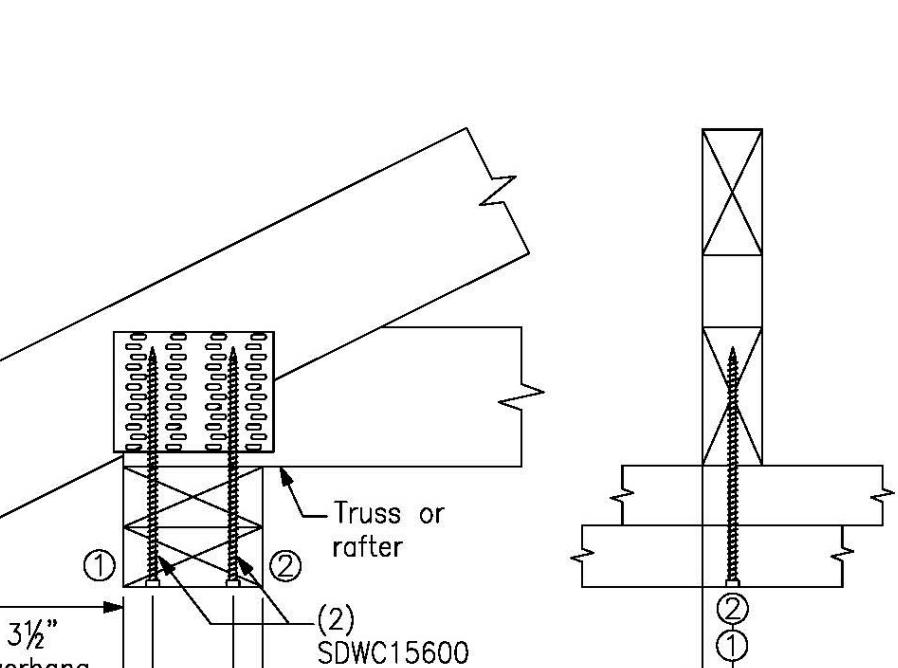
Step 2 - While continuing to drive the SDWC, "drop" the fastener head into the guide channel to ensure optimal installation angle of 22.5°. The installation angle range is 10°-30° (see detail 1a). Once the installation angle is established, the metal installation guide tool may be removed.

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.

### 1a SINGLE SDWC ROOF TO WALL OR BEAM INSTALLATION RANGE

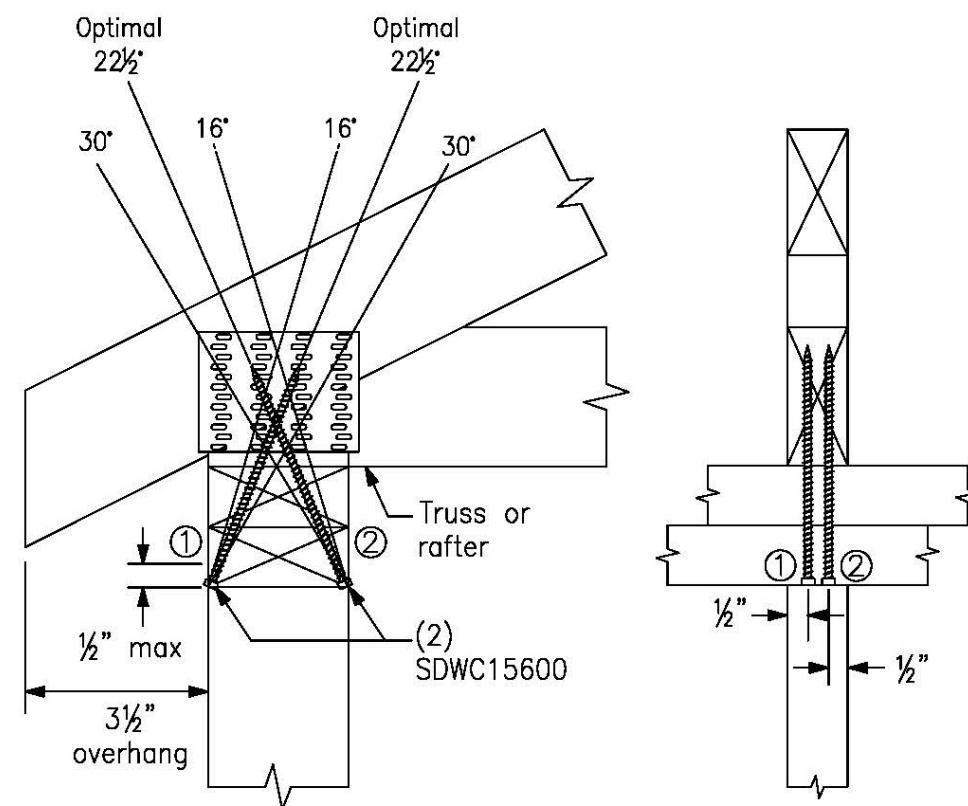


### 2 OPT. SDWC INSTALLATION - TRUSS/RAFTER OFFSET FROM STUD



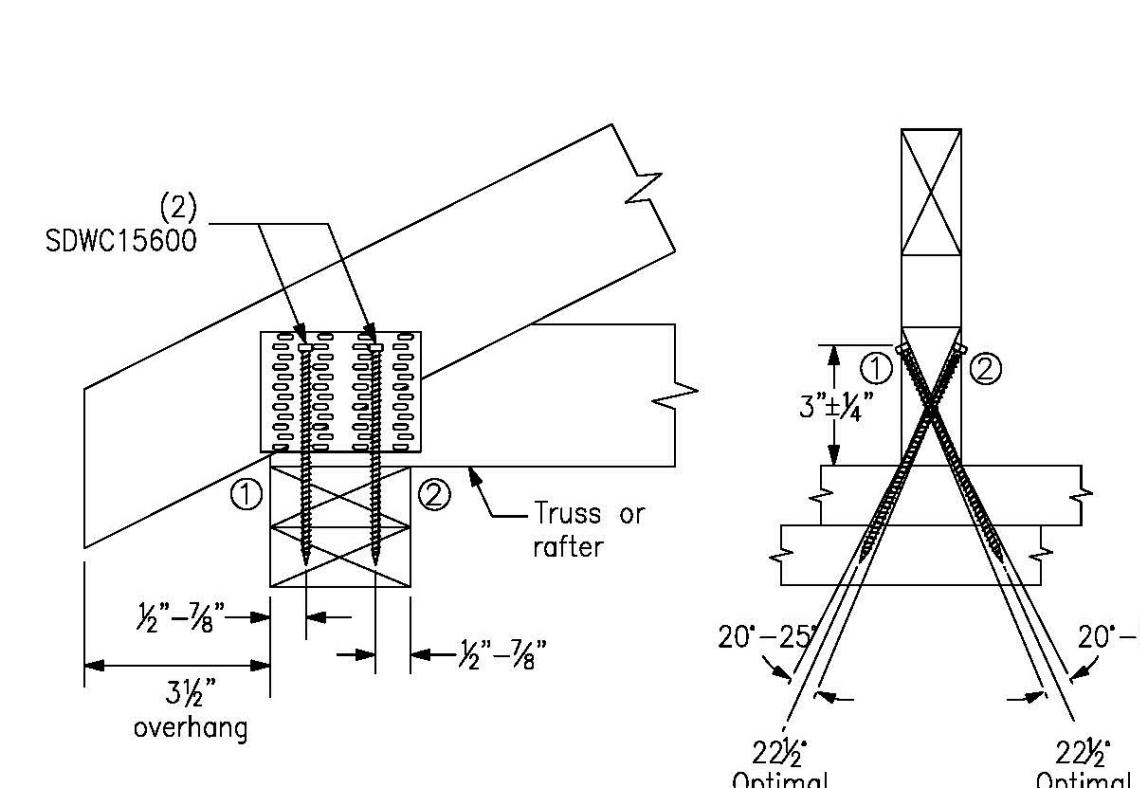
Both screws installed ±5°.

### 2a OPT. SDWC INSTALLATION RANGE



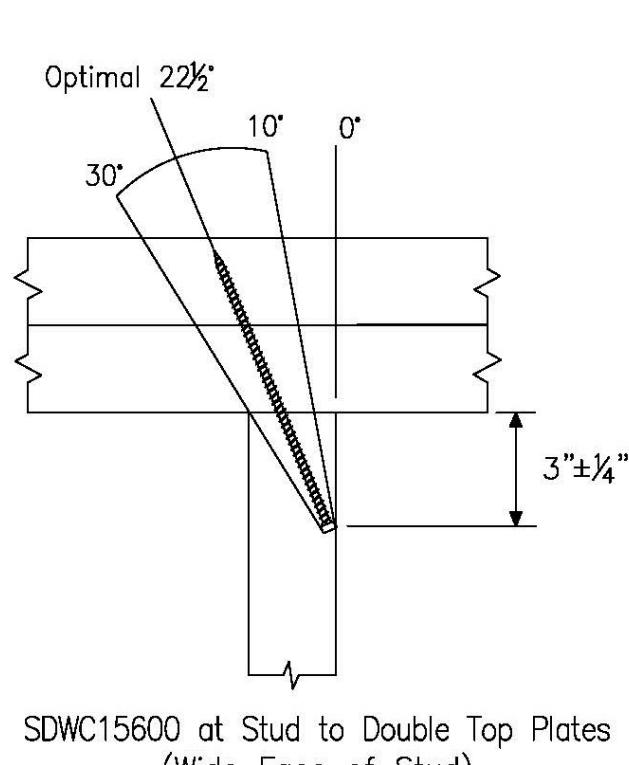
Use metal installation guide included in screw kits for optimal 22.5° installation.

### 3 SDWC MIN. EDGE DISTANCE FOR TOP PLATE SPLICE



Use metal installation guide included in screw kits for optimal 22.5° installation. To predrill through truss plates, use a  $\frac{1}{8}$ " drill bit.

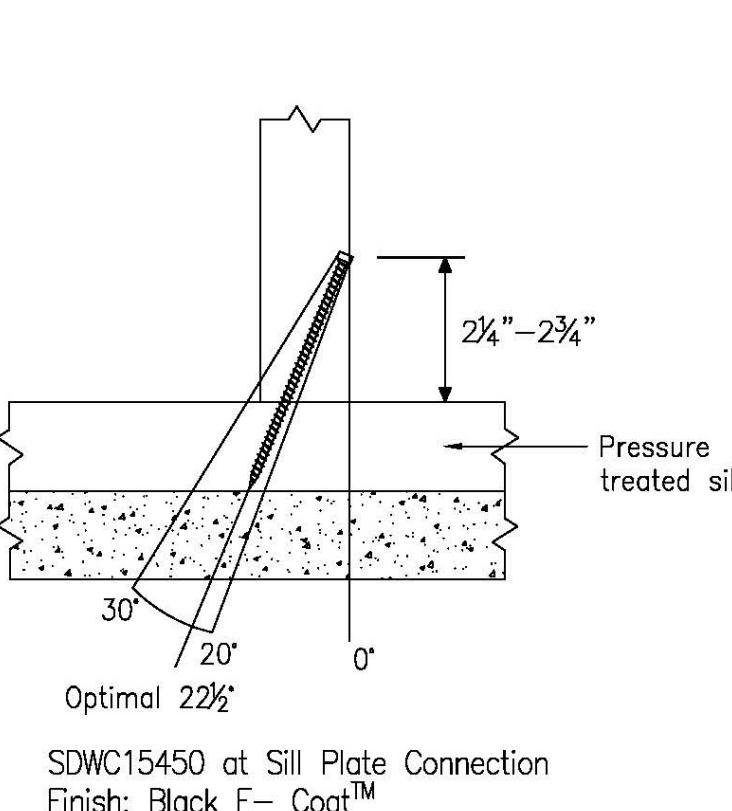
### 4 SDWC INSTALLATION INSTRUCTIONS (ROOF TO WALL)



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.

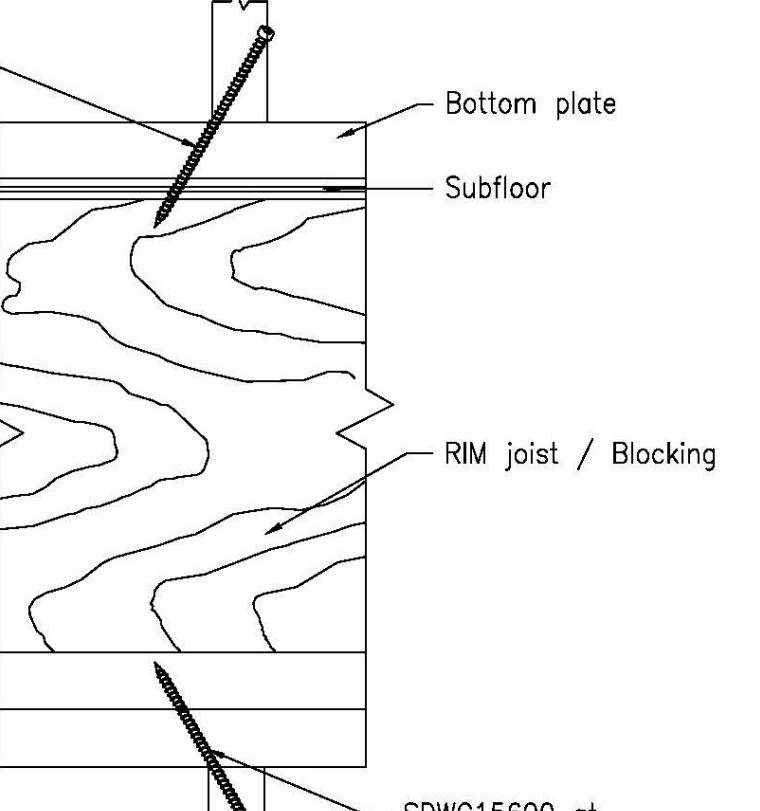
### 5 DOUBLE SDWC INSTALL: CONFIGURATION A



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

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

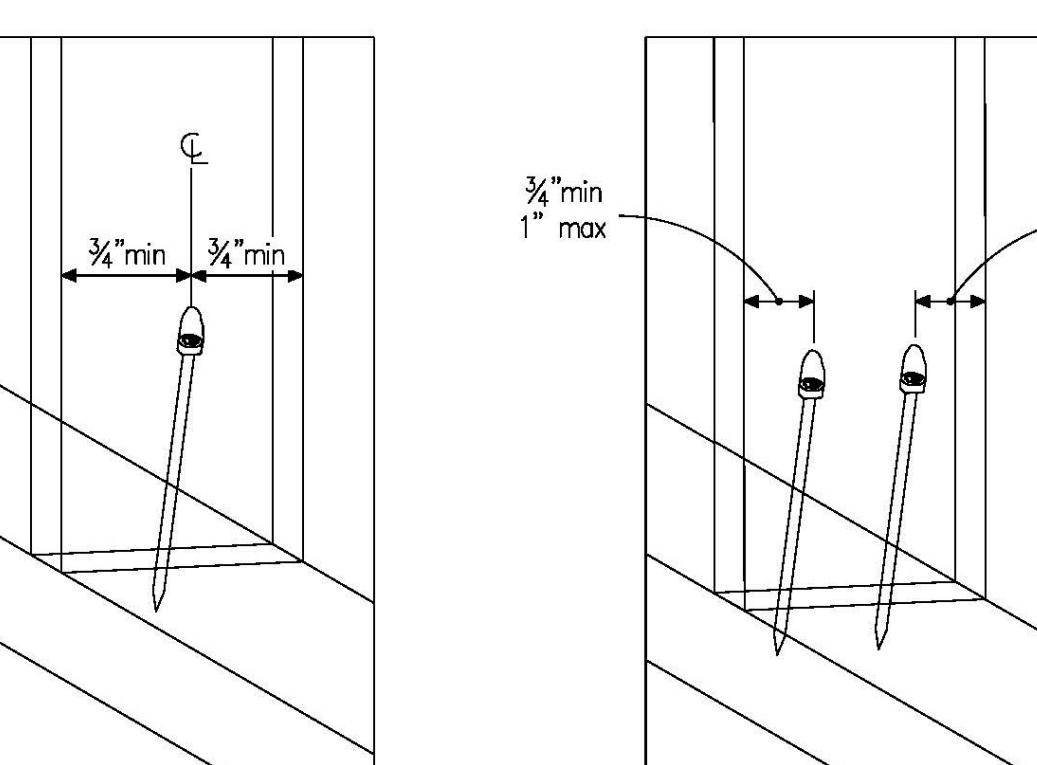
### 6 DOUBLE SDWC INSTALL: CONFIGURATION B



SDWC15600 at single/double bottom plate over wood floor (Wide face of stud)  
Bottom plate  
Subfloor

Note: Reference detail 9 for installation angle limit

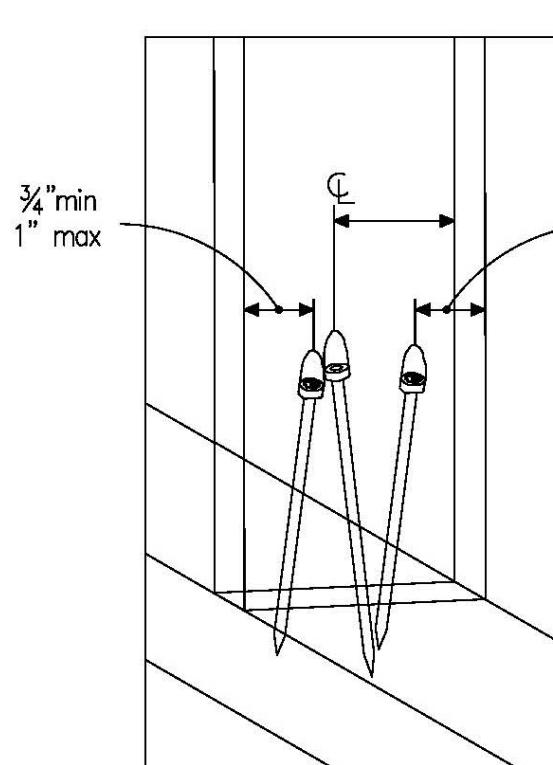
### 7 DOUBLE SDWC INSTALL: CONFIGURATION C



(1) SDWC  
(2) SDWC  
(Wide Face of Stud)

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

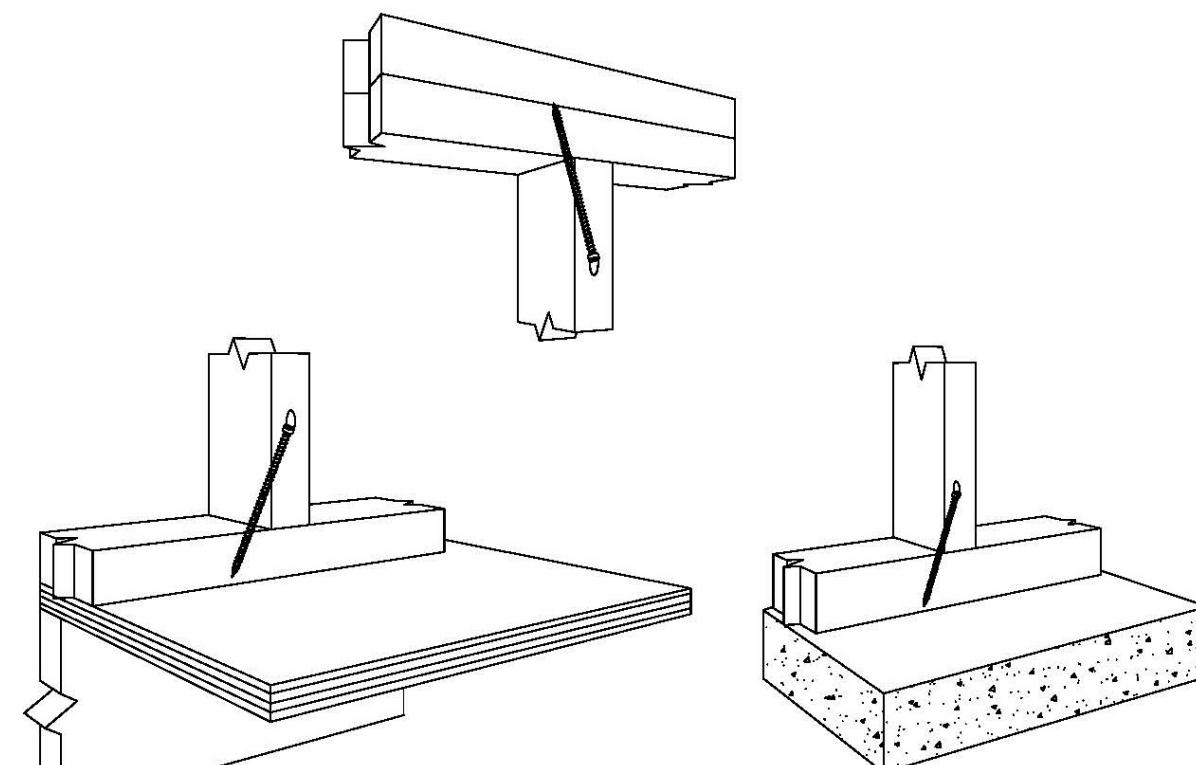
### 8 DOUBLE SDWC INSTALL: CONFIGURATION D



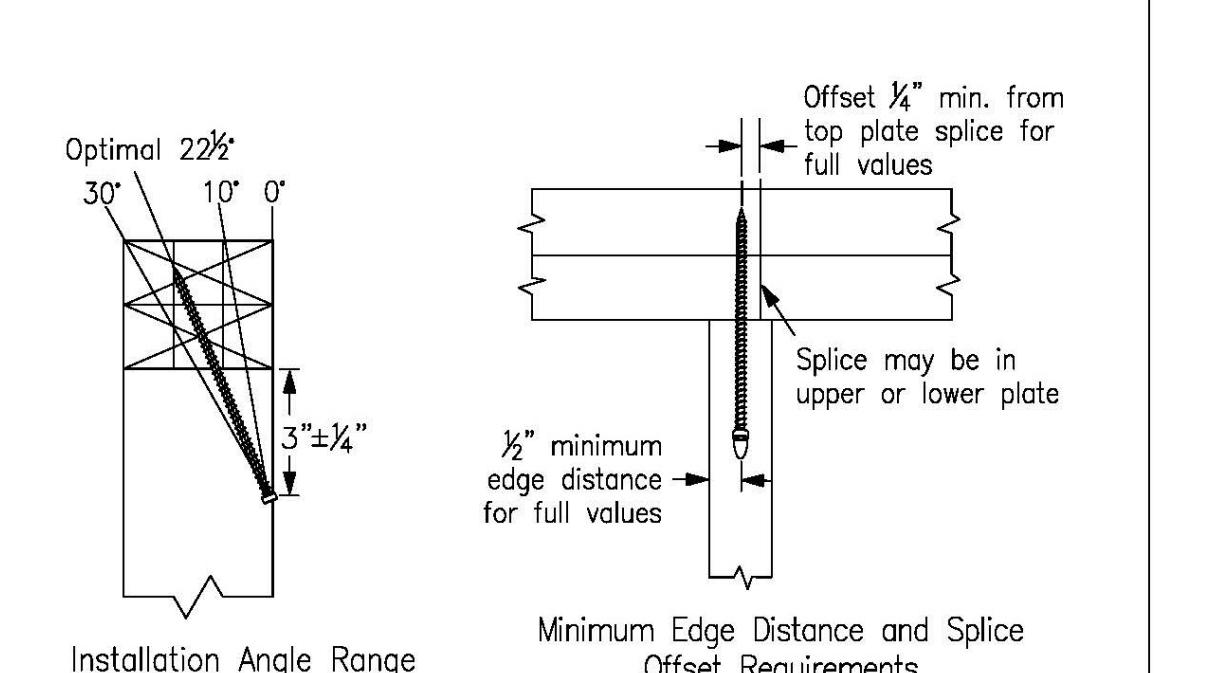
Single SDWC &  
multiple SDWC  
connections per  
stud information.

SDWC15450 at sill  
connections only.  
SDWC15600 at all  
other connections.

### 9 SDWC STUD-TO-TOP/BOTTOM PLATES CONNECTION

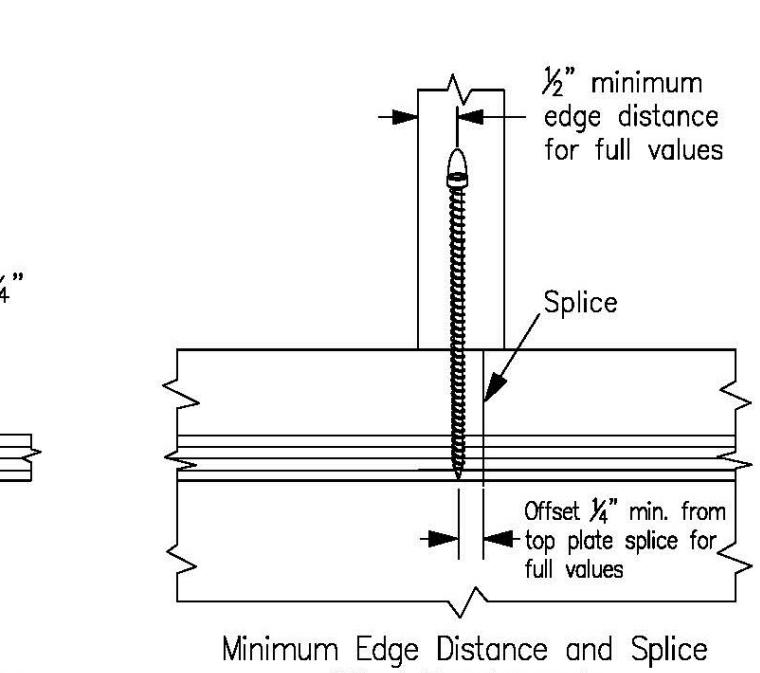


### 10 SDWC STUD-TO-SILL PLATE CONNECTION



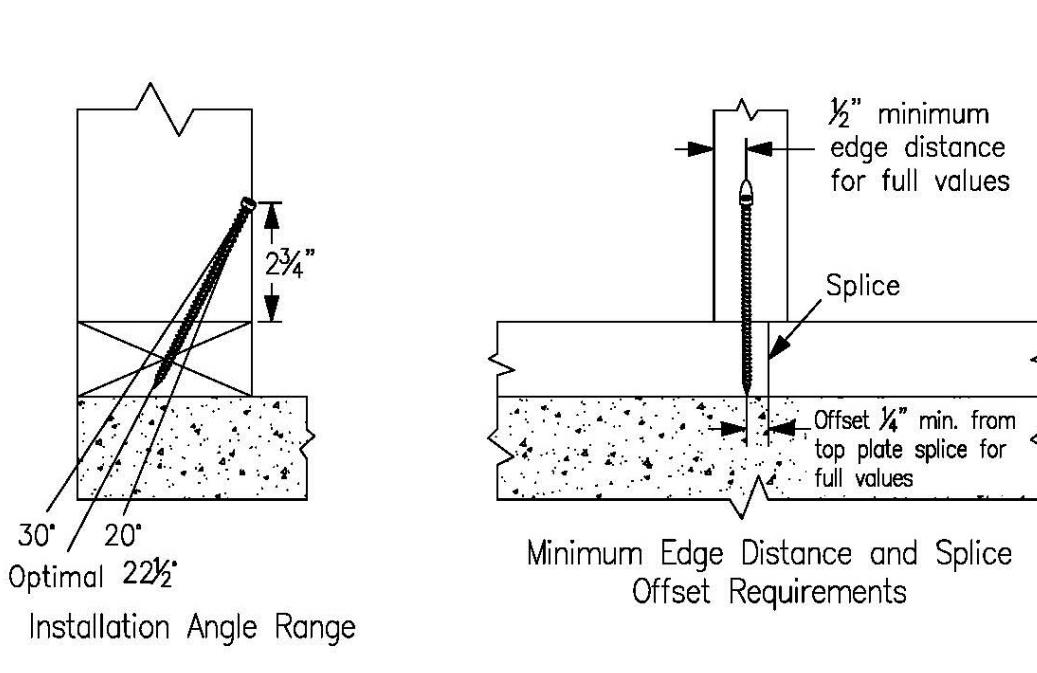
Installation Angle Range  
Minimum Edge Distance and Splice Offset Requirements

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



Offset  $\frac{1}{4}$ " min. from top plate splice for full values  
Splice may be in upper or lower plate  
Optimal 22.5°  
30° 10° 0°  
3"± $\frac{1}{4}$ "  
Installation Angle Range  
Minimum Edge Distance and Splice Offset Requirements

### 12 SDWC EDGE DISTANCE AND SPACING INFORMATION



$\frac{1}{2}$ " minimum edge distance for full values  
Splice  
Offset  $\frac{1}{4}$ " min. from top plate splice for full values  
Optimal 22.5°  
30° 20°  
 $\frac{1}{2}$ "  
Minimum Edge Distance and Splice Offset Requirements

- 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 POSTAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY.
- USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
- 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.
- ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
- 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.
- 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.
- SIMPSON STRONG-TIE COMPANY, INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
- ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.

### 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

### 17 NOTES