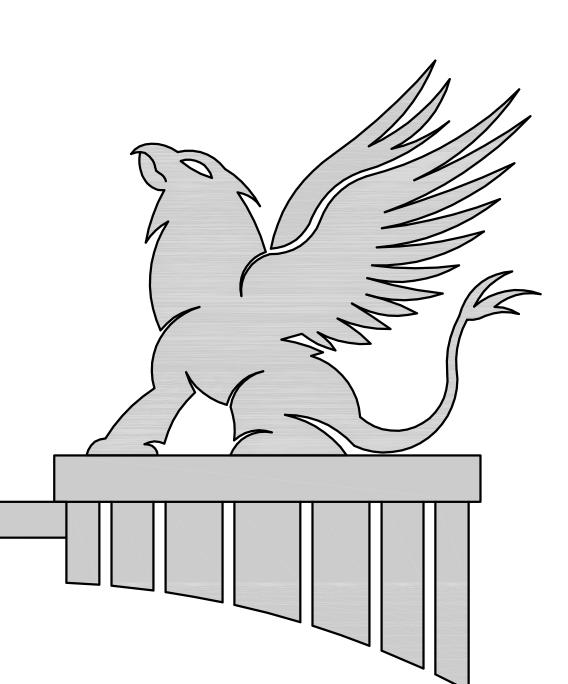


LAI - DO RESIDENCE

LOT 5, 12133 STATE ST, HILLSBOROUGH FL



PROJECT DETAILS

CODE:

2023 FLORIDA BUILDING CODES-8TH EDITION,

NEC 2020

OCCUPANCY CLASSIFICATION:

RESIDENTIAL, GROUP R3 - SINGLE FAMILY

BUILDING TYPE:

TYPE V-B.

NUMBER OF STORIES:

2 STORY

BUILDING AREA (O.A.): **BUILDING MAX HEIGHT:**

4789 SQFT 30'-0" AFF

BATHROOMS:

3 TOTAL

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY STEVE GORDILLO, PE USING A DIGITAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA **AUTHENTICATION CODE MUST** BE VERFIED ON ANY **ELECTRONIC COPIES**

THE GENERAL CONTRACTOR SHALL NOTIFY MORGANCASTLE STUDIO, INC. IN WRITING WITH ANY ADJUSTMENTS NEEDED PRIOR TO PLACING ORDERS FOR MATERIALS

C. ALL THIRD PARTIES PROVIDING SERVICES OR MATERIALS FOR THE PURPOSE OF CONSTRUCTING THE STRUCTURE BASED ON THESE DRAWINGS ARE REQUESTED

D. DESIGNS AND DRAWINGS PRODUCED BY MORGANCASTLE STUDIO, INC. ARE THE INTELLECTUAL PROPERTY CURTIS R. MORGAN AND ARE PROTECTED UNDER U.S. COPYRIGHT LAW. ANY REPRODUCTION OR UNAUTHORIZED USE IS PROHIBITED WITHOUT EXPRESS WRITTEN PERMISSION. THIS CONSTRUCTION DOCUMENT IS FOR

FINAL FOR PERMIT. 10-11-24

STRUCTURAL ENGINEER

Steve Gordillo, PE

PE #50586 G3X Design, LLC

2237 Climbing Ivy Dr. Tampa, FL 33618 Phone: (813)928-8339 **GENERAL CONTRACTOR**

David Williams

Covenant Homes, Inc. **General Contractor**

10339 Key Lantern Dr. New Port Richey, 34654 727-243-2726 CBC1256038

dwilliams@mycovenanthomes.com

DESIGNER

Curtis Morgan

Morgancastle Studio, Inc. Residential Design Services

9324 Wildwood Ave. Hudson, FL 34669 Phone: (727)247-8148

SHEET INDEX

1. FLOOR PLAN

- 2. FLOOR PLAN 4. ELEVATIONS
- 3. ELEVATIONS
- 5. FOUNDATION 6. ELECTRICAL - GROUND
- 7. ELECTRICAL 2ND FLOOR 8. FLOOR FRAMING
- 9. ROOF FRAMING 10. DETAILS/SECTIONS

S1-S6: ENGINEERING DETAILS

steve@g3xdesign.com

morgancastlestudio@gmail.com

DOOR AND WINDOW LABELS A SH3060 WINDOW IS A SINGLE-HUNG STYLE 3'-0" WIDE X 6'-0" HIGH. A TR8014 IS A TRANSOM 8' WIDE X 1'-4" HIGH. A 2480 DOOR LABEL IS READ 2'-4" WIDE X 8'-0" HIGH. **FLOOD NOTES** FLOOD ZONE: AE BFE=12 / PANEL 12057C0169J / NFIP COMMUNITY ID 120112. NON-CONVERSION AGREEMENT TO BE COMPLETED BY HOMEOWNER REQUIRED BEFORE ISSUANCE OF PERMIT FOR ENCLOSURE BUILT BELOW BFE. UNDER CONSTRUCTION ELEVATION CERTIFICATE REQUIRED PRIOR TO VERTICAL CONSTRUCTION. FINISHED CONSTRUCTION ELEVATION CERTIFICATE REQUIRED PRIOR TO FINAL INSPECTION. FLOOD OPENINGS REQUIRED FOR CONSTRUCTION BELOW BFE MUST MEET ALL REQUIREMENTS OF ASCE, FBC 2022, 8TH ED, 44 CFR & FEMA TB 1-20. ENCLOSURE BELOW BFE LIMITED TO ONLY PARKING, UNFINISHED STORAGE OR BUILDING ACCESS SECTION 60.3, 44 CFR & TB 1-20. ALL UTILITIES SERVICING BUILDING MUST BE ELEVATED ABOVE FLOOD. PROTECTION LEVEL (BFE PLUS 1 FT) OR DRY FLOODPROOFED TO THE FLOOD PROTECTION LEVEL. (FEMA P-348). THE PROPERTY LOCATION IS IN A SPECIAL FLOOD HAZARD AREA (SFHA). THE PROPOSED A/C UNIT, GENERATOR, AND OTHER UTILITIES ARE REQUIRED TO BE AT OR ABOVE THE FINISHED FLOOR ELEVATION, MINIMUM 13' NAVD, AS REQUIRED BY THE FEMA & HILLSBOROUGH COUNTY CONSTRUCTION ORDINANCE HCC AND SECTION R322.1.6 OF THE FBC 8TH EDITION 2023. FLOOD DAMAGE-DAMAGE RESISTANT MATERIALS SHALL BE PROVIDED BELOW THE BFE PLUS REQUIRED 1' FREEBOARD AS REQUIRED BY THE FEMA & HILLSBOROUGH COUNTY CONSTRUCTION CODE AND SECTION 322.1.8 OF THE FBC 8TH EDITION 2023.

FLOOD VENTS

(5) SMART VENTS: VENT MODEL 1540-521 FL 5822.4. RATED AT 400 SF EACH CALCS: 1652 SF REQUIRED, 2000 SF SUPPLIED

GENERAL NOTES

- ALL EXTERIOR FRAME WALLS AND INTERIOR BEARING WALLS TO BE 2X6 WOOD STUDS AT 16" O.C. SEE "S" SHEETS FOR DETAILS.
- STRUCTURAL NOTES FOR LINTELS, HEADERS ,BEAMS, COLUMNS AND UPLIFT CONNECTION CALL-OUTS ARE ON THE STRUCTURAL FRAMING & TRUSS LAYOUT SHEET.
- OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH A SELF CLOSING, 20 MIN FIRE RATED DOOR PER FBCR 302.5.1
- ALL PLUMBING, ELECTRICAL, AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED,
- AND APPROVED BEFORE REQUESTING THE FRAMING INSPECTION. FBC,R R109.3
- PROVIDE ONE 29"W CLEAR OPENING TO A BATHROOM ON THE FIRST FOR FOR HANDICAP ACCESS. FBC-R R320.
- ALL GLASS IN HAZARDOUS LOCATIONS PER R308.4 TO BE TEMPERED GLASS.
- PROVIDE A MINIMUM OF ONE 36" SIDE HINGED EXIT DOOR ON THE FIRST FLOOR PER R311.2. ALL NON WALK-IN CLOSET CEILINGS TO BE A MAXIMUM OF 8' HIGH.
- . PLANS USE MODULAR DIMENSIONS. 2X4 FRAME WALLS ARE ASSUMED 4", PLUMBING WALLS 6" AND CMU WALLS ARE 8" UNLESS OTHERWISE NOTED. ADD OR SUBTRACT TO GET CENTER
- 0. CONFIRM MASONRY AND FRAME EXTERIOR OPENING REQUIREMENTS WITH WINDOW/DOOR SUPPLIER BEFORE CONSTRUCTION. UNIT REQUIREMENTS TAKE PRECENDENCE. . ALL EXTERIOR FRAME WALLS HAVE R-13 BATT INSULATION AND VAPOR BARRIER PER FBC-RE
- TABLE R402.1.2.
- 12. ALL EXTERIOR CEILINGS (I.E. PORCHES, ENTRY) HAVE $rac{7}{8}$ "T MIN. STUCCO ON WIRE LATHE OVER 30LB FELT OVER BUILDING WRAP. FINISH MATERIALS TO COMPLY WITH R703, R703.7
- 13. PROVIDE CONCRETE STOOPS FOR EXTERIOR DOORS TO GRASSED AREAS. 14. ALL SHELVING TO BE VINYL COATED WIRE SHELVING.
- 15. G.C. AND SUBS/SUPPLIERS TO VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF

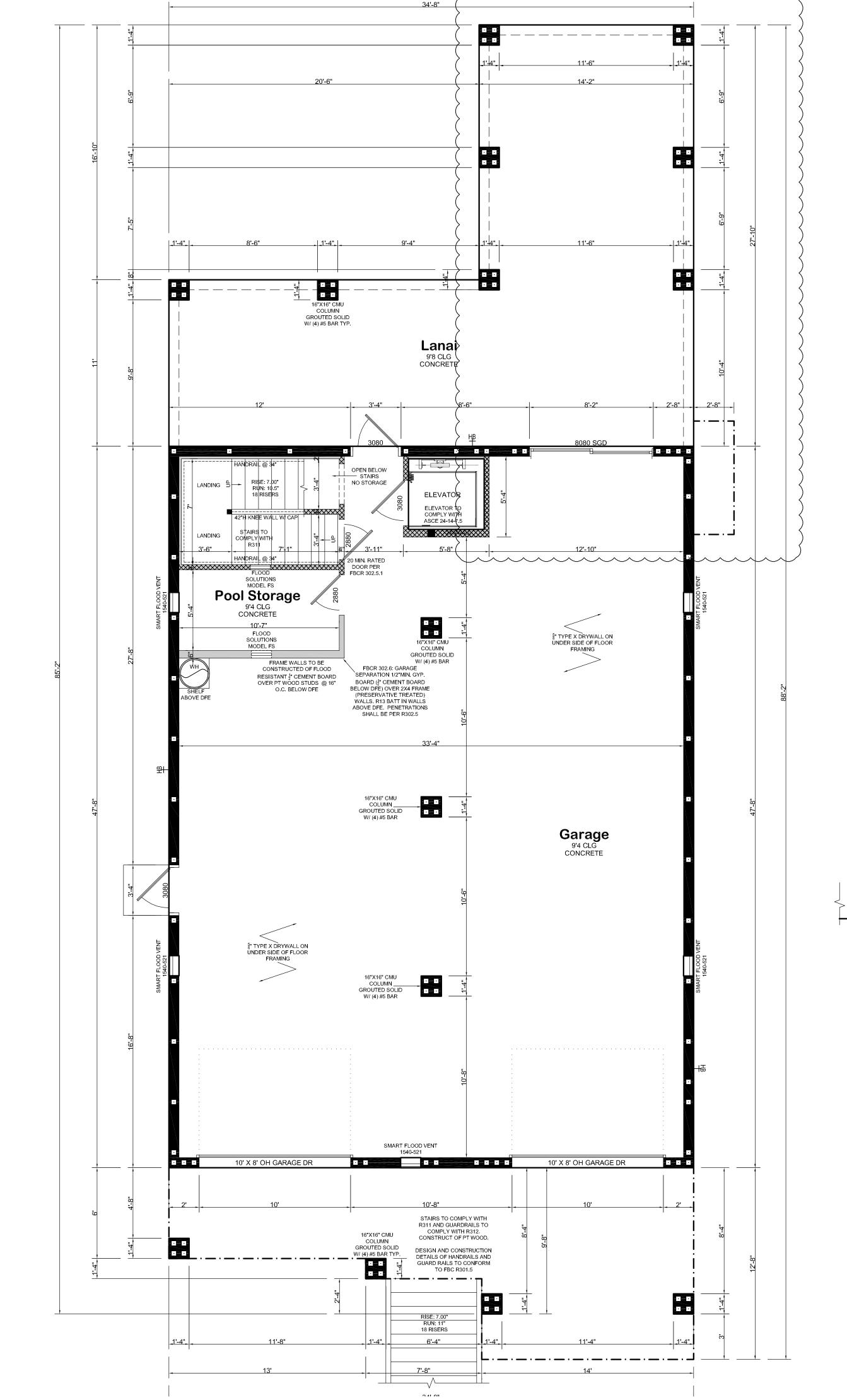
16. CLOSET ORGANIZERS BUILT-IN BY OWNER.

WALL LEGEND

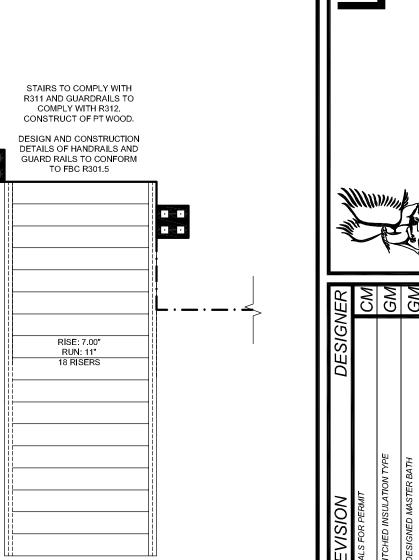
2X NON-BEARING WALL:

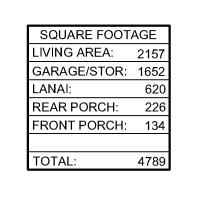
2X BEARING WALL W/ UPLIFT:

8" CMU EXTERIOR BEARING WALL:





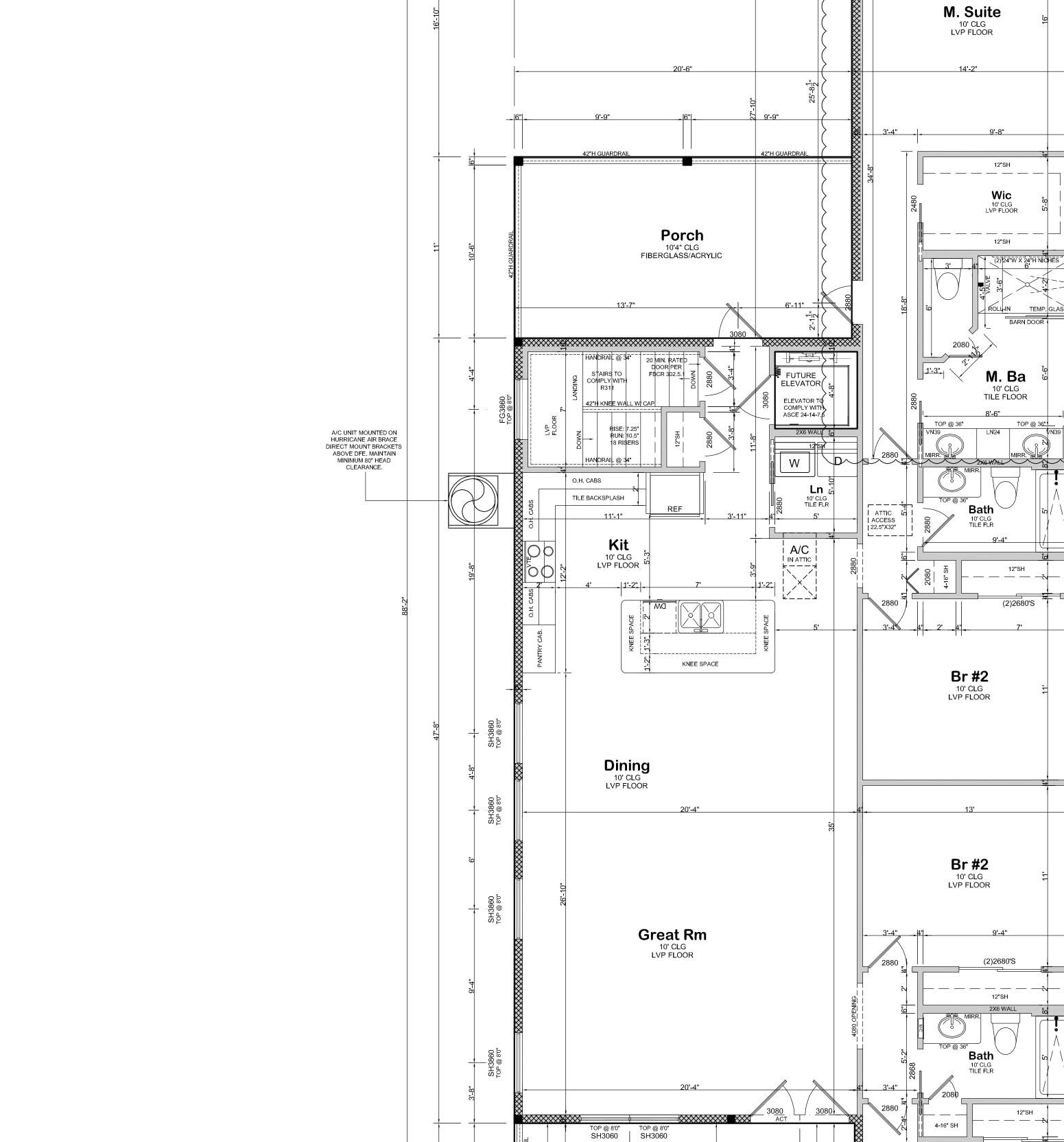




FLOOR PLAN

SHEET

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10'4 CLG FIBERGLASS/ACRYLIC

Bed #3

10' CLG LVP FLOOR

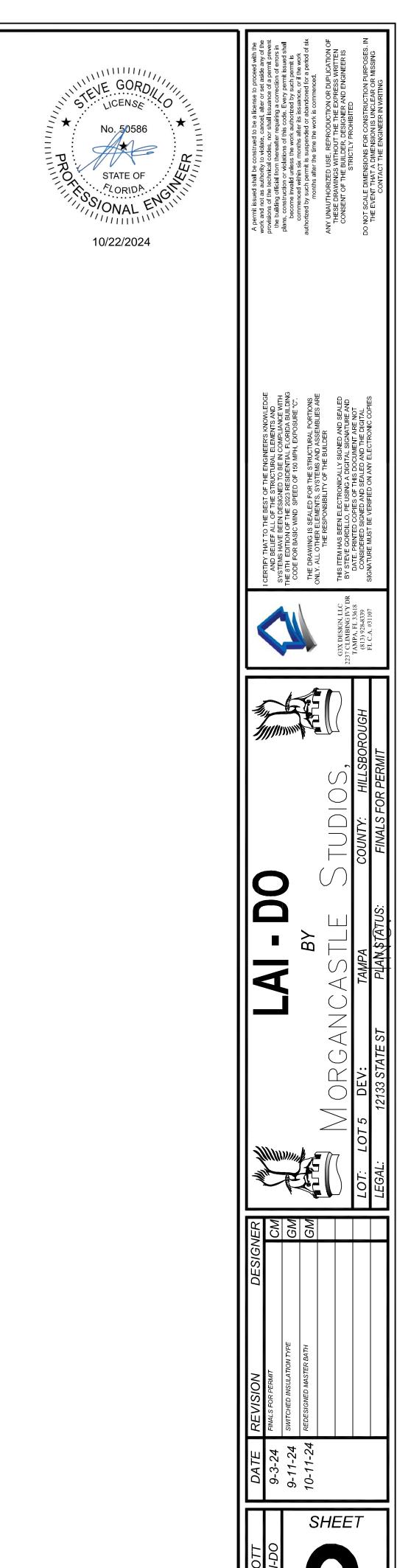
TOP @ 8'0" TOP @ 8'0" 7' SH3060 SH3060 7'

42"H GUARDRAIL

STAIRS TO COMPLY WITH
R311 AND GUARDRAILS TO
COMPLY WITH R312.
CONSTRUCT OF PT WOOD.

DESIGN AND CONSTRUCTION
DETAILS OF HANDRAILS AND
GUARD RAILS TO CONFORM
TO FBC R301.5

SH3060 TOP @ 8'0" EGRESS



FLOOR PLAN

WODEL: SC C.A.D. #: 05 10

2X NON-BEARING WALL:

2X BEARING WALL W/ UPLIFT:

8" CMU EXTERIOR BEARING WALL:

FALL PREVENTION

R312.2.1.2: OPERABLE WINDOWS LOCATED LESS THAN 24"
ABOVE FINISHED FLOOR AND GREATER THAN 72" ABOVE
FINISHED GRADE SHALL BE PROVIDED WITH WINDOW FALL
PREVENTION DEVICES THAT COMPLY WITH ASTM F2090

GENERAL NOTES

ALL DIMENSIONS TO BE FIELD VERIFIED.

DIMENSIONS FOR WINDOWS ARE "GENERIC" AND USED FOR DESIGN PURPOSES ONLY.

VERIFY ALL WINDOW OPENINGS WITH WINDOW MANUFACTURER FOR EXACT ROUGH OPENING SIZES

ALL GLAZED OPENINGS SHALL BE IMPACT RESISTANT.

ALL PERIMETER WALLS ARE TO BE CONSIDERED SHEAR WALLS EXCEPT AT DOOR AND WINDOW OPENINGS AND WALL LENGTHS LESS THAN 2'-8". NAILING PATTERN AND SPACING AT SHEATHING FOR SHEAR APPLY TO ALL EXTERIOR FRAME WALLS

FLASHING NOTES

DUE TO CLARITY NOT ALL REQUIRED FLASHING IS INDICATED ON THE DRAWINGS. FLASHING SHALL BE INSTALLED PER FBC 2023 R703.4. CODE SECTION HAS BEEN PROVIDED BELOW AS REFERENCE ONLY

R703.4 FLASHING. APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA 711. ALL EXTERIOR FENESTRATION PRODUCTS SHALL BE SEALED AT THE JUNCTURE WITH THE BUILDING WALL WITH A SEALANT COMPLYING WITH AAMA 800 OR ASTM C920 CLASS 25 GRADE NS OR GREATER FOR PROPER JOINT EXPANSION AND CONTRACTION, ASTM C1281, AAMA 812, OR OTHER APPROVED STANDARD AS APPROPRIATE FOR THE TYPE OF SEALANT. FLUID-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY WITH AAMA 714. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:

1. EXTERIOR WINDOW AND DOOR OPENINGS. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER COMPLYING WITH SECTION 703.2 FOR SUBSEQUENT DRAINAGE. MECHANICALLY ATTACHED FLEXIBLE FLASHINGS SHALL COMPLY WITH AAMA 712. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL BE INSTALLED IN ACCORDANCE WITH ONE OR MORE OF THE FOLLOWING:

1.1. THE FENESTRATION MANUFACTURER'S INSTALLATION AND FLASHING INSTRUCTIONS, OR FOR APPLICATIONS NOT ADDRESSED IN THE FENESTRATION MANUFACTURER'S INSTRUCTIONS, IN ACCORDANCE WITH THE FLASHING MANUFACTURER'S INSTRUCTIONS. WHERE FLASHING INSTRUCTIONS OR DETAILS ARE NOT PROVIDED, PAN FLASHING SHALL BE INSTALLED AT THE SILL OF EXTERIOR WINDOW AND DOOR OPENINGS. PAN FLASHING SHALL BE SEALED OR SLOPED IN SUCH A MANNER AS TO DIRECT WATER TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE. OPENINGS USING PAN FLASHING SHALL INCORPORATE FLASHING OR PROTECTION AT THE HEAD AND SIDES.

1.2. IN ACCORDANCE WITH THE FLASHING DESIGN OR METHOD OF A REGISTERED DESIGN PROFESSIONAL.1.3. IN ACCORDANCE WITH OTHER APPROVED METHODS.

1.4. IN ACCORDANCE WITH FMA/AAMA 100, FMA/AAMA 200, FMA/WDMA 250, FMA/AAMA/ WDMA 300 OR FMA/AAMA/WDMA 400.

2. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.

3. UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.

4. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.5. WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR

FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.

6. AT WALL AND ROOF INTERSECTIONS.

7. AT BUILT-IN GUTTERS.

ATTIC VENTILATION CALCULATION

ATTIC VENTILATION - FBC-R SECTION R806 ATTIC NET FREE VENTILATION CAPACITY SHALL BE A MINIMUM $\frac{1}{150}$ TH OF ATTIC AREA OR $\frac{1}{300}$ TH IF 40-50% OF THE VENTILATION IS WITHIN 3' OF UPPER RIDGES.

ATTIC SQFT: 2517 SQFT.

150TH NET FREE VENT. CAPACITY REQUIREMENT: 2416 SQIN.

OR $\frac{1}{300}$ TH NET FREE VENT. CAPACITYREQUIREMENT: 1208 SQIN.

483 MIN. TO 604 MAX SQIN. WITHIN 3' OF UPPER RIDGES.

EEV, 37 or DATE OF MAND

BEV, 10 FLOR MAND

COMMOR CO.

BEV, 21 ON MAND

C

FRONT ELEVATION



REAR ELEVATION



A permit issued shall be construed to be a license to proce work and not as authority to violate, cancel, alter or set asis provisions of the technical codes, nor shall issuance of a port the building official from thereafter requiring a correction plans, construction or violations of this code. Every permit become invalid unless the work authorized by such promit is suspended or abandoned for a months after the time the work is commenced.

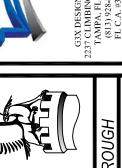
ANY UNAUTHORIZED USE, REPRODUCTION OF DUPL THESE DRAWINGS WITHOUT THE THE EXPRESS W CONSENT OF THE BUILDER, DESIGNER AND ENGIL STRICTLY PROHIBITED

DO NOT SCALE DIMENSIONS FOR CONSTRUCTION PUTHE EVENT THAT A DIMENSION IS UNCLEAR OR MATHER AND AND CALLED THE A DIMENSION IS UNCLEAR OR MATHER EVENT THAT A DIMENSION IS UNCLEAR

ELIEF ALL OF THE STRUCTURAL ELEMENTS AND HAVE BEEN DESIGNED TO BE IN COMPLIANCE WITH HAVE BEEN DESIGNED TO BE IN COMPLIANCE WITH DITON OF THE 2023 RESIDENTIAL FLORIDA BUILDING BASIC WIND SPEED OF 150 MPH, EXPOSURE "C".

WING IS SEALED FOR THE STRUCTURAL PORTIONS OTHER ELEMENTS, SYSTEMS AND ASSEMBLIES ARE THE RESPONSIBILITY OF THE BUILDER HAS BEEN ELECTRONICALLY SIGNED AND SEALED E GORDILLO, PE USING A DIGITAL SIGNATURE AND PRINTED COPIES OF THIS DOCUMENT ARE NOT IDERED SIGNED AND SEALED AND THE DIGITAL ER WUST BE VERIFIED ON ANY ELECTRONIC COPIES





STUDIOS,

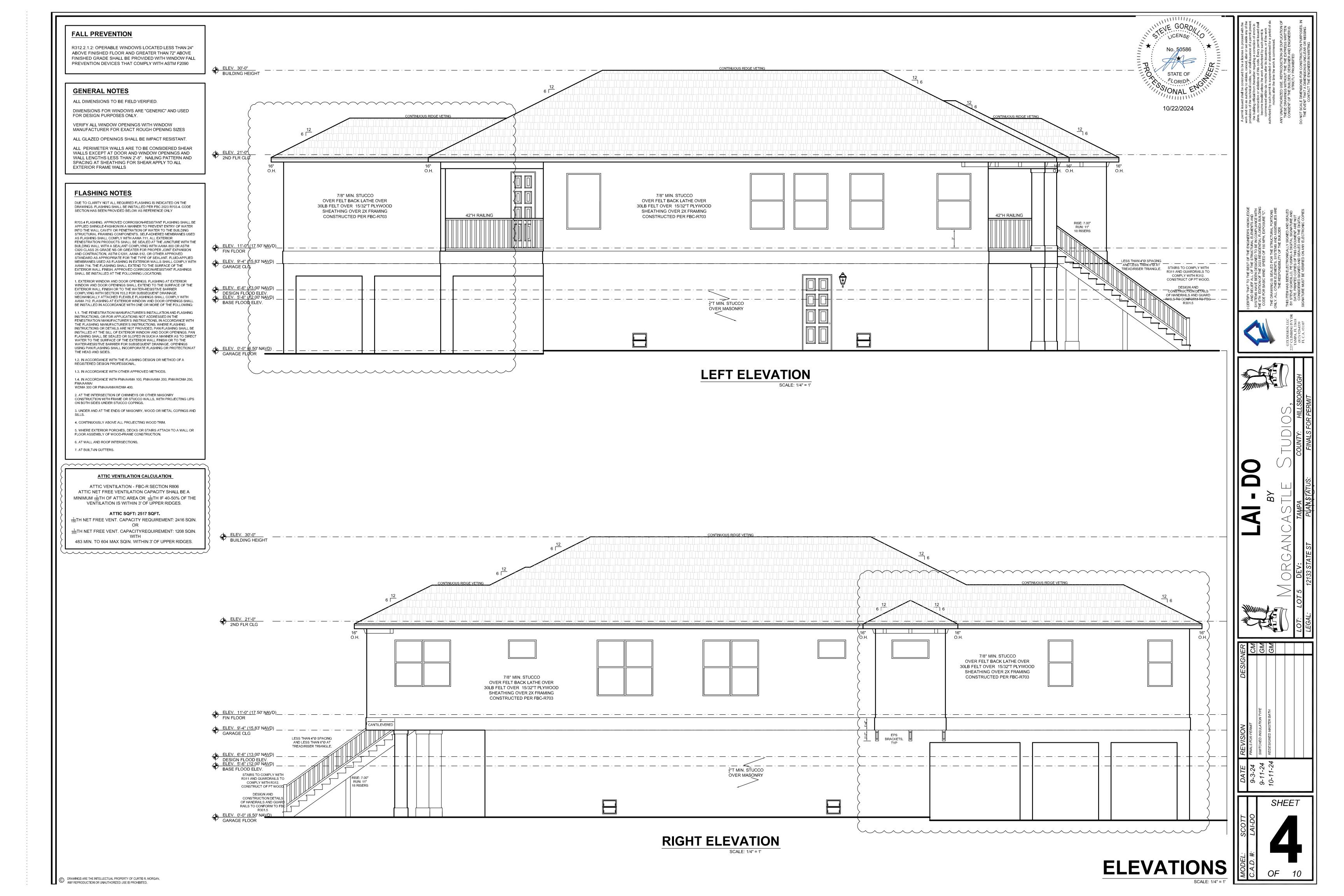
BY Ancastle Stu

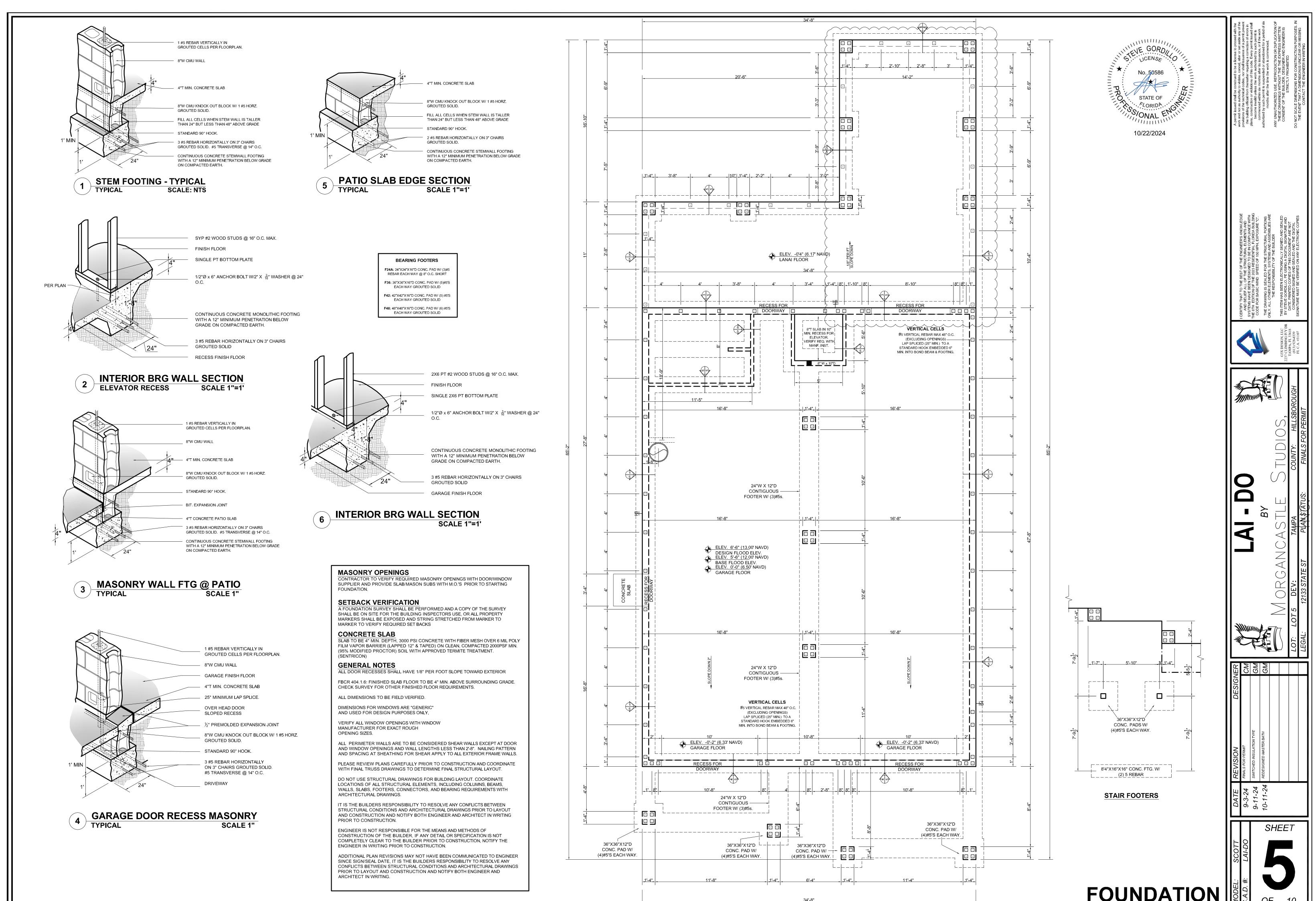
OT: LOT 5 DEV:

3-24 FINALS FOR PERMIT CHAIS FOR PERMIT CHAIS FOR PERMIT CHAIS INSULATION TYPE GM GM 11-24 REDESIGNED MASTER BATH GM

SHEET
OF 10

ELEVATIONS





© DRAWINGS ARE THE INTELLECTUAL PROPERTY OF CURTIS R. MORGAN. ANY REPRODUCTION OR UNAUTHORIZED USE IS PROHIBITED.



ALL ELECTRICAL MUST BE IN COMPLIANCE WITH NFPA 70A, NATIONAL ELECTRICAL CODE REQUIREMENTS FOR NE AND TWO FAMILY DWELLINGS, EXCEPT ARTICLE 80.

PROVIDE ARC-FAULT INTERRUPTERS IN ALL DWELLING UNIT ROOMS REQUIRED BY NEC, SECTION 210-12.

ALL OUTSIDE W.P. OUTLETS TO BE ON THERE OWN 20AMP CIRCUIT.

ALL UTILITIES SERVICING BUILDING MUST BE ELEVATED ABOVE FLOOD. PROTECTION LEVEL (BFE PLUS 2 FT) OR DRY FLOODPROOFED TO THE FLOOD PROTECTION LEVEL. (FEMA P-348).

ALL COMPONENTS BELOW THE DFE SHALL BE FLOOD RESISTANT, INCLUDING BUILDING, MECHANICAL, ELECTRICAL, PLUMBING, AND GAS TRADES.

LEGEND

- CEILING OUTLET FIXTURE

• PULL CHAIN FIXTURE

→ WALL MOUNT FIXTURE

→ FAN PREWIRE FIXTURE

® RECESSED OUTLET FIXTURE

♦ VENT FAN FIXTURE

♦ DUAL W.P. FLOOD FIXTURE

DUPLEX OUTLET

ф^{GF} GROUND FAULT OUTLET
 ф^{1/2S} 1/2 SWITCH OUTLET

φ^{220V} 220V OUTLET φ^{WP} WATER PROOF OUTLET

\$ SINGLE POLE SWITCH \$ 3-WAY SWITCH

\$₄ 4-WAY SWITCH

\$□ DIMMER SWITCH

\$LV LOW VOLTAGE SWITCH \$WP WATERPROOF SWITCH

\$GD GARBAGE DISPOSAL SWITCH

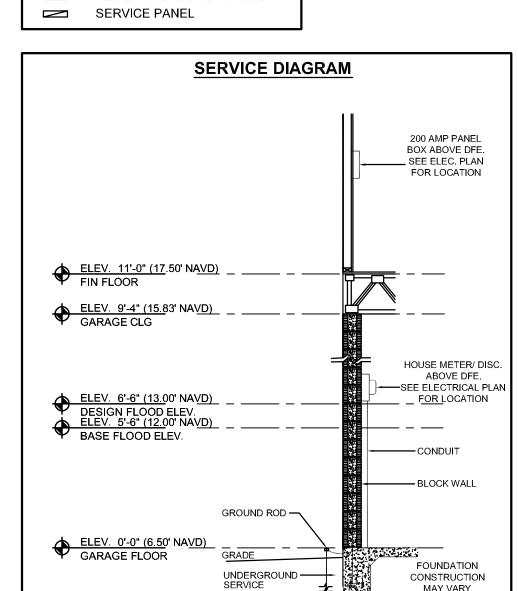
▼ TELEPHONE

SMOKE /CARB. MON. DET.

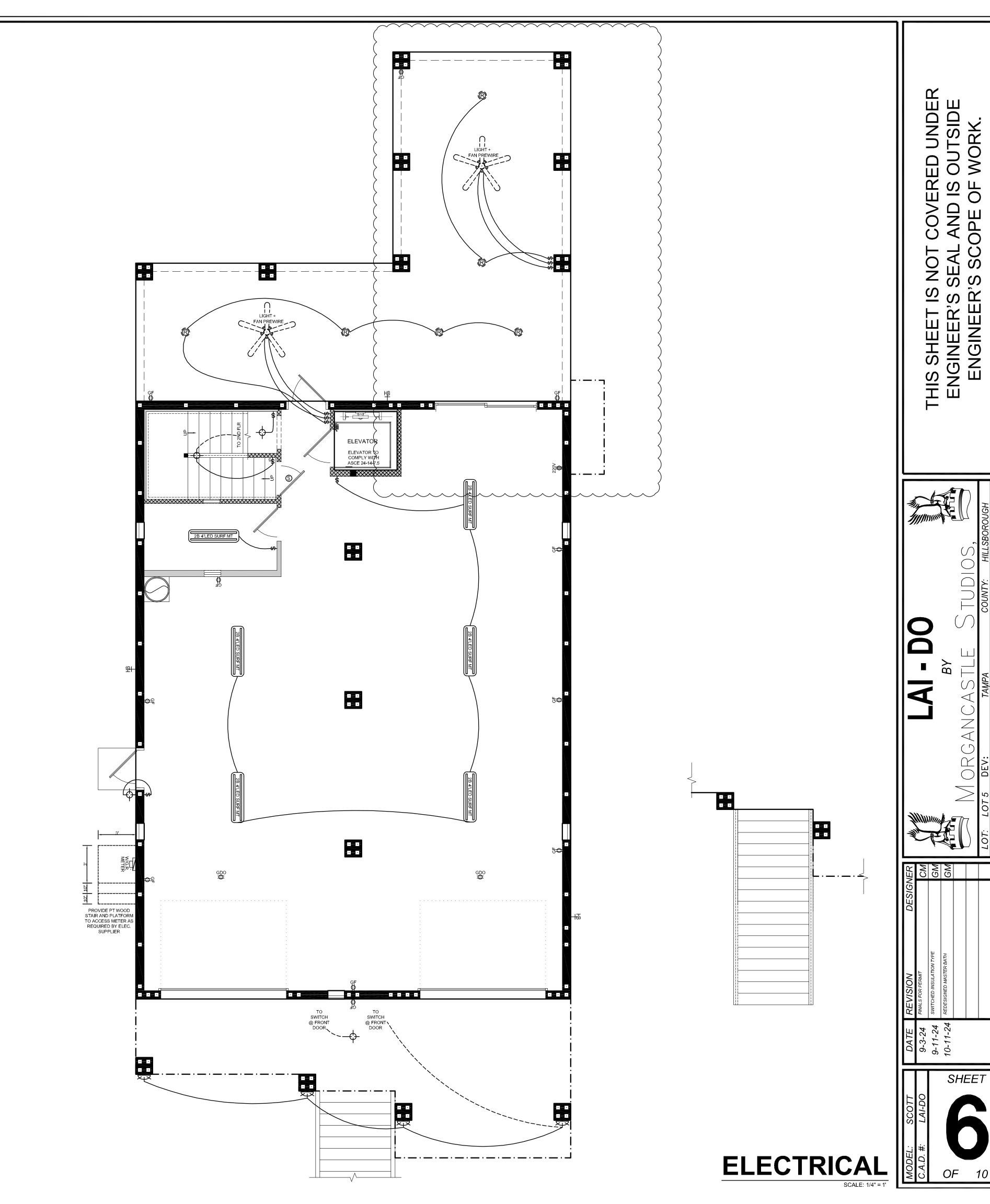
† TELEVISION OUTLET

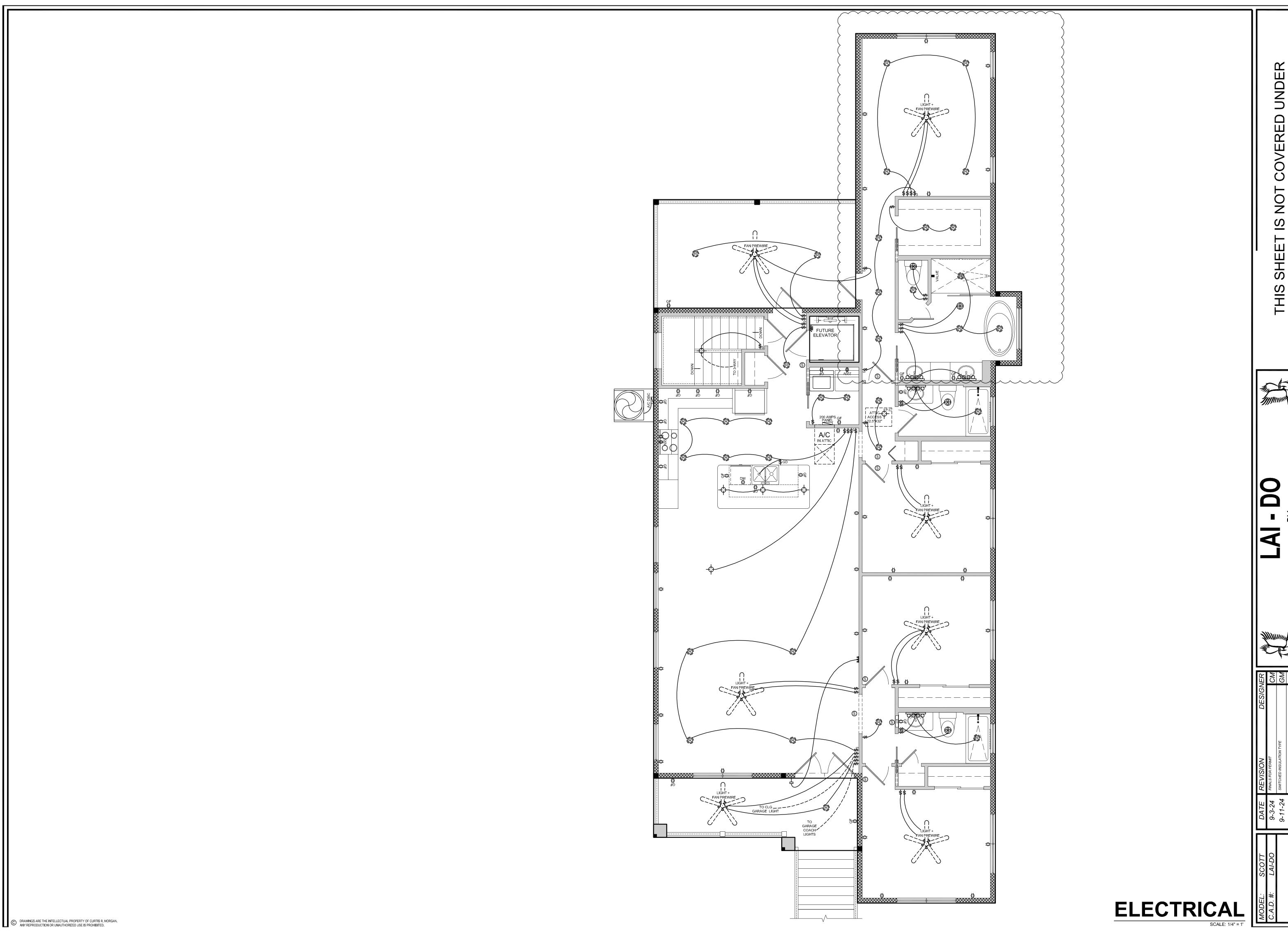
DOORBELL CHIME

METER W/GROUNDING ROD



20' #4 CU MIN.





THIS SHEET IS NOT COVERED UNDER ENGINEER'S SEAL AND IS OUTSIDE ENGINEER'S SCOPE OF WORK.

CONNECTOR NOTES:

UNLESS NOTED OTHERWISE

ALL MASONRY TO TRUSS CONNECTIONS SHALL BE HETA20 EMBEDDED STRAP UPLIFT VALUE -2,365

ALL MASONRY TO GIRDER TRUSSES CONNECTION 2PLY & 3 PLY SHALL BE (2) HETA20 EMBEDDED STRAP -2,365

ALL FRAME WALL TO TRUSS CONNECTIONS SHALL BE HTS20 UPLIFT VALUE -1,310

ALL FRAME WALL TO GIRDER TRUSS CONNECTION 2PLY & 3 PLY SHALL BE (2) HTS20 UP TO -2,610 UPLIFT, IF UPLIFT EXCEEDS THIS VALUE ENGINEER WILL PROVIDE CONNECTOR BASED ON FINAL ENGINEERED TRUSS PROFILES

FLOOR GIRDER TRUSSES TO MASONRY WALL SHALL BE A LGUM/HGUM CONNECTOR. FOR HGUM CONNECTOR HEIGHT SHALL MATCH GIRDER DEPTH. PROVIDE CLEARANCE FOR FLANGES TO ALL LEDGERS FOR CORRECT INSTALLATION

2 PLY GIRDER SHALL BE LGUM210-2-SDS ALLOWABLE LOADS -3575/9575

GIRDERS WILL REQUIRE CUSTOM SOLUTIONS PROVIDED BY SIMPSON OR USP

3 PLY GIRDER SHALL BE HGUM5.5-SDS ALLOWABLE LOADS -4105/14,000 4 PLY GIRDER SHALL BE HGUM7.25-SDS ALLOWABLE LOADS -4105/14,000

WHERE GIRDERS OCCUR AT THE END OF WALL CONNECTORS REQUIRE CONCEALED FLANGES AND MUST BE HGUM. 2 PLY

CONTRACTOR REQUIRES CLARIFICATION OF ANY ITEM OR COMPONENT THEY SHALL PROVIDE FINAL ENGINEERED TRUSS DRAWINGS AND REQUEST CLARIFICATION IN WRITING FROM EOR

FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS AND SPECIFICATIONS FOR ALL CONNECTIONS, NO EXCEPTIONS.

BUILDER RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS OF INSTALLING CONNECTORS

GENERAL NOTES

ALL WIND LOAD CALCULATIONS AND DESIGN CRITERIA ARE BASED ON AN ENCLOSED STRUCTURE, ANY BREACH OF PENETRATION OF OPENINGS SUCH AS WINDOW, DOORS, GARAGE DOORS, ETC. DURING A STORM EVENT WILL COMPRISE THE STRUCTURAL INTEGRITY. THEREFORE EITHER ALL OPENINGS MUST BE PROTECTED DURING THE EVENT USING SPECIFIED PROTECTION FOR OPENING OR SHALL BE IMPACT RESISTANT COVERING IN COMPLIANCE TO LARGE MISSILE TEST REQUIREMENT OF WINDOWS ASTM E 1886 AND ASTM E 1996 OR AAMA 506, DOORS

ANSI/DASMA 115 (GARAGE DOORS) OR TAS 201,202 AND 203. ALL COMPONENTS AND CLADDING SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS AND MUST MEET OR EXCEEDS THE DESIGN PRESSURE SPECIFIED.

ALL SHEAR WALLS MUST TRANSFER LOADS TO FLOOR JOIST OR FOUNDATIONS

DIAPHRAGM SYSTEMS MUST BE ATTACHED TO END WALLS AND/OR SIDE WALLS

TRUSSES MUST BE CAPABLE OF TRANSFERRING LATERAL LOADS TO BEARING WALLS

TRUSSES, GIRDERS, AND BEAM TIE DOWNS ARE SIZED PER UPLIFT REQUIREMENTS

 ALL CONCRETE BLOCK WALL SEGMENTS W/ VERTICAL REBAR AT EACH END, CONSTITUTES A SHEAR WALL SEGMENT ALL PERIMETER WALLS ARE TO BE CONSIDERED SHEAR WALLS EXCEPT AT DOOR AND WINDOW OPENINGS AND WALL LENGTHS LESS THAN 32". NAILING PATTERN AND SPACING AT SHEATHING FOR SHEAR APPLY TO ALL EXTERIOR

ALL DIMENSIONS TO BE FIELD VERIFIED

DIMENSIONS FOR WINDOWS AND DOORS ARE GENERIC AND USED FOR DESIGN PURPOSES ONLY VERIFY ALL DOOR AND OPENINGS EXACT ROUGH OPENING SIZES WITH SPECIFIC MANUFACTURES

ENGINEER ASSUMES NO RESPONSIBILITIES FOR ANY EXISTING CONDITIONS (U.N.O.)

IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL DRAWINGS BEFORE CONSTRUCTION BEGINS. THE ENGINEER OF RECORD IS RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS PROJECT ONLY. ANY DISCREPANCY BETWEEN FIELD CONDITIONS, OTHER DESIGN PROFESSIONALS' SHOP DRAWINGS, CONTRACTORS' BUILDING METHODS, AND THESE SIGNED AND SEALED DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

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G3XDESIGN MAY REVISE HANGERS AFTER TRUSS DRAWING SHOP REVIEW.

FILLED CELLS WITH A MINIMUM 1-#5 BAR SHALL BE PROVIDED AT ALL LOCATIONS WHERE GIRDER AND GIRDER TRUSSES BEAR ON MASONRY WALLS

TYPICAL FRAME HEADER (LOAD BEARING WALL)

ROUGH OPENING	2x4 FRAME WALL	2x6 FRAME WALL
UP TO 4'	MIN (2) 2x12 W/ ½" PLYWOOD FLITCH	MIN (3) $2x12$ W/ $\frac{1}{2}$ " PLYWOOD FLITCH
4'-0" TO 6'-0"	MIN (2) 2x12 W/ ½" PLYWOOD FLITCH	MIN (3) 2x12 W/ ½" PLYWOOD FLITCH
6'-0" TO 8'-0"	MIN (2) 2x12 W/ ½" PLYWOOD FLITCH	MIN (3) 2x12 W/ ½" PLYWOOD FLITCH
OVER 8'-0"	MIN 2 PCS OF 1 ¾" x 11 ¼" LVL BEAM	MIN 3 PCS OF 1 $\frac{3}{4}$ " x 11 $\frac{7}{4}$ " LVL BEAM

FRAMING NOTES:

1. ALL WOOD FRAMING EXPOSED TO THE EXTERIOR OR IN CONTACT WITH MASONRY OR CONCRETE IS TO BE PRESSURE

2. ALL EXTERIOR FASTENERS INCLUDING NAILS, HANGERS, BOLTS ETC. ARE TO BE STAINLESS STEEL (SS) TYPE 316 OR CORROSION RESISTANT

3. ALL INTERIOR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER INCLUDING NAILS, HANGERS, BOLTS ETC.ARE TO BE HOT DIPPED GALVANIZED (HDG) G185.

LEDGER SCHEDULE		
DESCRIPTION	<u>ATTACHMENT</u>	<u>SUPPORT</u>
(2) 2x12 PT BOLTED TO BLOCK	5/8" TITENS OR J-BOLTS @ 12" O.C. STAGGERED	FLOOR TRUSSES @ MASONRY WALL
(2) 2x8 PT BOLTED TO BLOCK	1/2" TITENS OR J-BOLTS @ 24" O.C.	FLOOR SHEATHING @ MASONRY WALL

1/4" x 3 1/2" TAPCON @ 8" O.C.

STAGGERED

ROOF TRUSS @ MASONRY

WALL

SHEATHING NAILING SCHEDULE WALL SHEATHING 1 / 2" CDX OR 1 / 2" OSB BOARD 8d RING SHANK NAILS FIRST 36" AND END ZONES (ZONE 5) INTERIOR 4" C/C EDGES 3" C/C INTERIOR 6" C/C EDGES 6" C/C ROOF SHEATHING 5/8" CDX 10d RING SHANK NAILS FIRST 36" AND END ZONES (ZONES 2 AND 3) INTERIOR 3" C/C EDGES 3" C/C

BEARING WALLS SIMPSON CONNECTOR OPTION

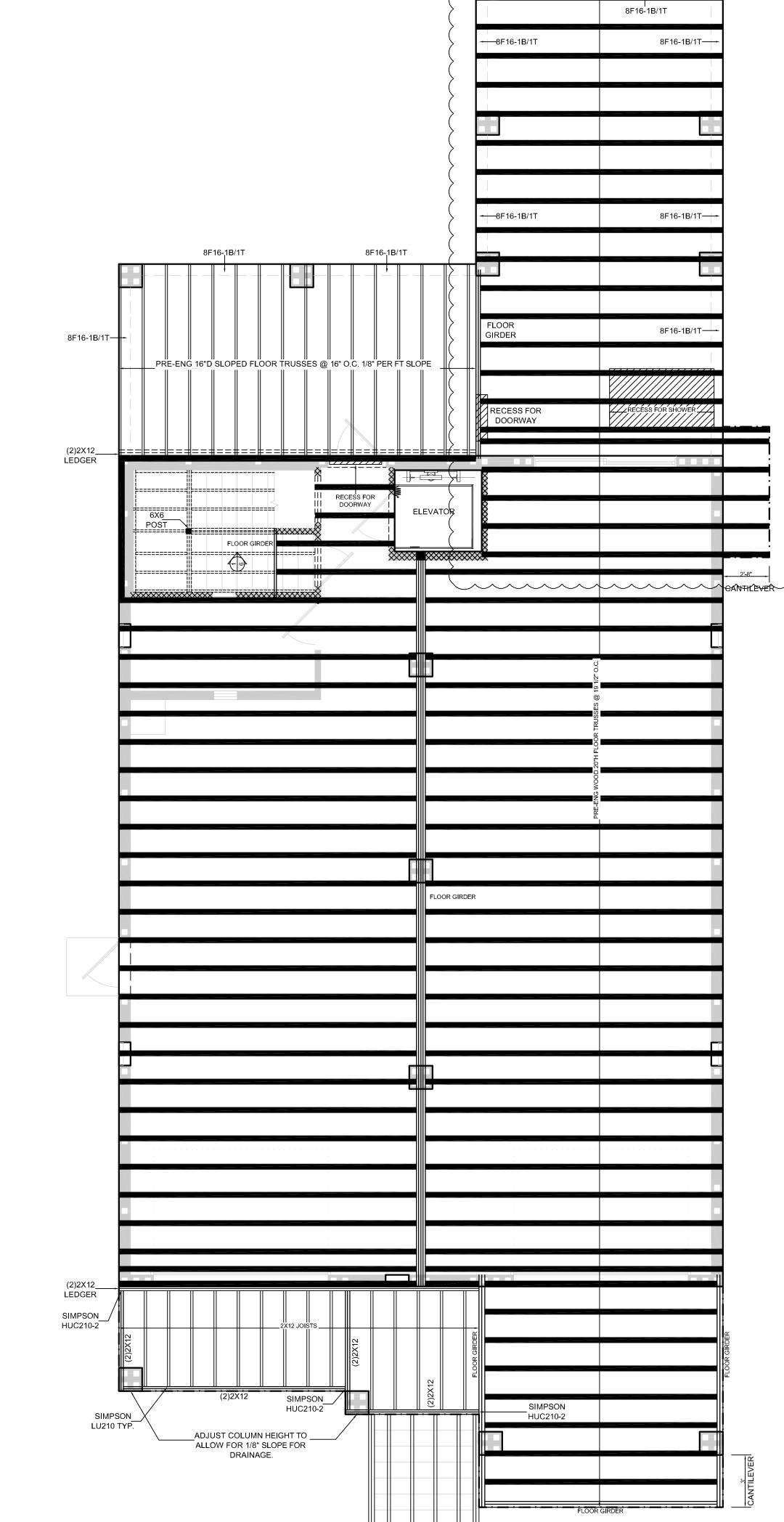
SP1 @ SOLE PLATE SP2 @ DBL TOP PLATE

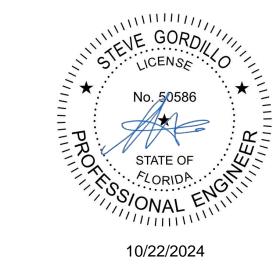
ELEV. 21'-0"
2ND FLR CLG

INTERIOR 4" C/C EDGES 4" C/C

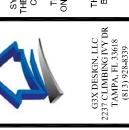
SOLE PLATE TO FOUNDATION ANCHOR BOLTS MIN. DIA $\frac{5}{8}$ " AND 3"x3"x $\frac{1}{8}$ " WASHERS BE PROVIDED 6

TO 12 INCHES OF EACH END PLATE. BOLTS SHALL HAVE A MIN. 7" EMBEDMENT AND NOT EXCEED 36" O.C.









TRUSS LAYOUT

POST-

2ND FLOOR 10' CLG LIN

(1) 2 x 10 PT BOLTED TO BLOCK

CONNECTOR NOTES:

UNLESS NOTED OTHERWISE

ALL MASONRY TO TRUSS CONNECTIONS SHALL BE HETA20 EMBEDDED STRAP UPLIFT VALUE -2,365

ALL MASONRY TO GIRDER TRUSSES CONNECTION 2PLY & 3 PLY SHALL BE (2) HETA20 EMBEDDED STRAP -2,365

ALL FRAME WALL TO TRUSS CONNECTIONS SHALL BE HTS20 UPLIFT VALUE -1,310

ALL FRAME WALL TO GIRDER TRUSS CONNECTION 2PLY & 3 PLY SHALL BE (2) HTS20 UP TO -2,610 UPLIFT, IF UPLIFT EXCEEDS THIS VALUE ENGINEER WILL PROVIDE CONNECTOR BASED ON FINAL ENGINEERED TRUSS PROFILES

FLOOR GIRDER TRUSSES TO MASONRY WALL SHALL BE A LGUM/HGUM CONNECTOR. FOR HGUM CONNECTOR HEIGHT SHALL

MATCH GIRDER DEPTH. PROVIDE CLEARANCE FOR FLANGES TO ALL LEDGERS FOR CORRECT INSTALLATION

2 PLY GIRDER SHALL BE LGUM210-2-SDS ALLOWABLE LOADS -3575/9575 3 PLY GIRDER SHALL BE HGUM5.5-SDS ALLOWABLE LOADS -4105/14,000

4 PLY GIRDER SHALL BE HGUM7.25-SDS ALLOWABLE LOADS -4105/14,000

WHERE GIRDERS OCCUR AT THE END OF WALL CONNECTORS REQUIRE CONCEALED FLANGES AND MUST BE HGUM. 2 PLY GIRDERS WILL REQUIRE CUSTOM SOLUTIONS PROVIDED BY SIMPSON OR USP

CONTRACTOR REQUIRES CLARIFICATION OF ANY ITEM OR COMPONENT THEY SHALL PROVIDE FINAL ENGINEERED TRUSS DRAWINGS AND REQUEST CLARIFICATION IN WRITING FROM EOR

FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS AND SPECIFICATIONS FOR ALL CONNECTIONS, NO EXCEPTIONS.

BUILDER RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS OF INSTALLING CONNECTORS

GENERAL NOTES

ALL WIND LOAD CALCULATIONS AND DESIGN CRITERIA ARE BASED ON AN ENCLOSED STRUCTURE, ANY BREACH OF PENETRATION OF OPENINGS SUCH AS WINDOW, DOORS, GARAGE DOORS, ETC. DURING A STORM EVENT WILL COMPRISE THE STRUCTURAL INTEGRITY. THEREFORE EITHER ALL OPENINGS MUST BE PROTECTED DURING THE EVENT USING SPECIFIED PROTECTION FOR OPENING OR SHALL BE IMPACT RESISTANT COVERING IN COMPLIANCE TO LARGE MISSILE TEST REQUIREMENT OF WINDOWS ASTM E 1886 AND ASTM E 1996 OR AAMA 506, DOORS

ANSI/DASMA 115 (GARAGE DOORS) OR TAS 201,202 AND 203. ALL COMPONENTS AND CLADDING SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS AND MUST MEET OR EXCEEDS THE DESIGN PRESSURE SPECIFIED.

ALL SHEAR WALLS MUST TRANSFER LOADS TO FLOOR JOIST OR FOUNDATIONS

DIAPHRAGM SYSTEMS MUST BE ATTACHED TO END WALLS AND/OR SIDE WALLS

 TRUSSES MUST BE CAPABLE OF TRANSFERRING LATERAL LOADS TO BEARING WALLS TRUSSES, GIRDERS, AND BEAM TIE DOWNS ARE SIZED PER UPLIFT REQUIREMENTS

 ALL CONCRETE BLOCK WALL SEGMENTS W/ VERTICAL REBAR AT EACH END, CONSTITUTES A SHEAR WALL SEGMENT ALL PERIMETER WALLS ARE TO BE CONSIDERED SHEAR WALLS EXCEPT AT DOOR AND WINDOW OPENINGS AND WALL LENGTHS LESS THAN 32". NAILING PATTERN AND SPACING AT SHEATHING FOR SHEAR APPLY TO ALL EXTERIOR

ALL DIMENSIONS TO BE FIELD VERIFIED

DIMENSIONS FOR WINDOWS AND DOORS ARE GENERIC AND USED FOR DESIGN PURPOSES ONLY VERIFY ALL DOOR AND OPENINGS EXACT ROUGH OPENING SIZES WITH SPECIFIC MANUFACTURES

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(1) 2 x 10 PT BOLTED TO BLOCK	1/4" x 3 1/2" TAPCON @ 8" O.C. STAGGERED	ROOF TRUSS @ MASONRY WALL

SHEATHING NAILING SCHEDULE

WALL SHEATHING 1 / 2" CDX OR 1 / 2" OSB BOARD

8d RING SHANK NAILS FIRST 36" AND END ZONES (ZONE 5)

INTERIOR 4" C/C EDGES 3" C/C

INTERIOR 6" C/C

EDGES 6" C/C ROOF SHEATHING 5/8" CDX

10d RING SHANK NAILS FIRST 36" AND END ZONES (ZONES 2 AND 3)

INTERIOR 3" C/C EDGES 3" C/C

INTERIOR 4" C/C EDGES 4" C/C

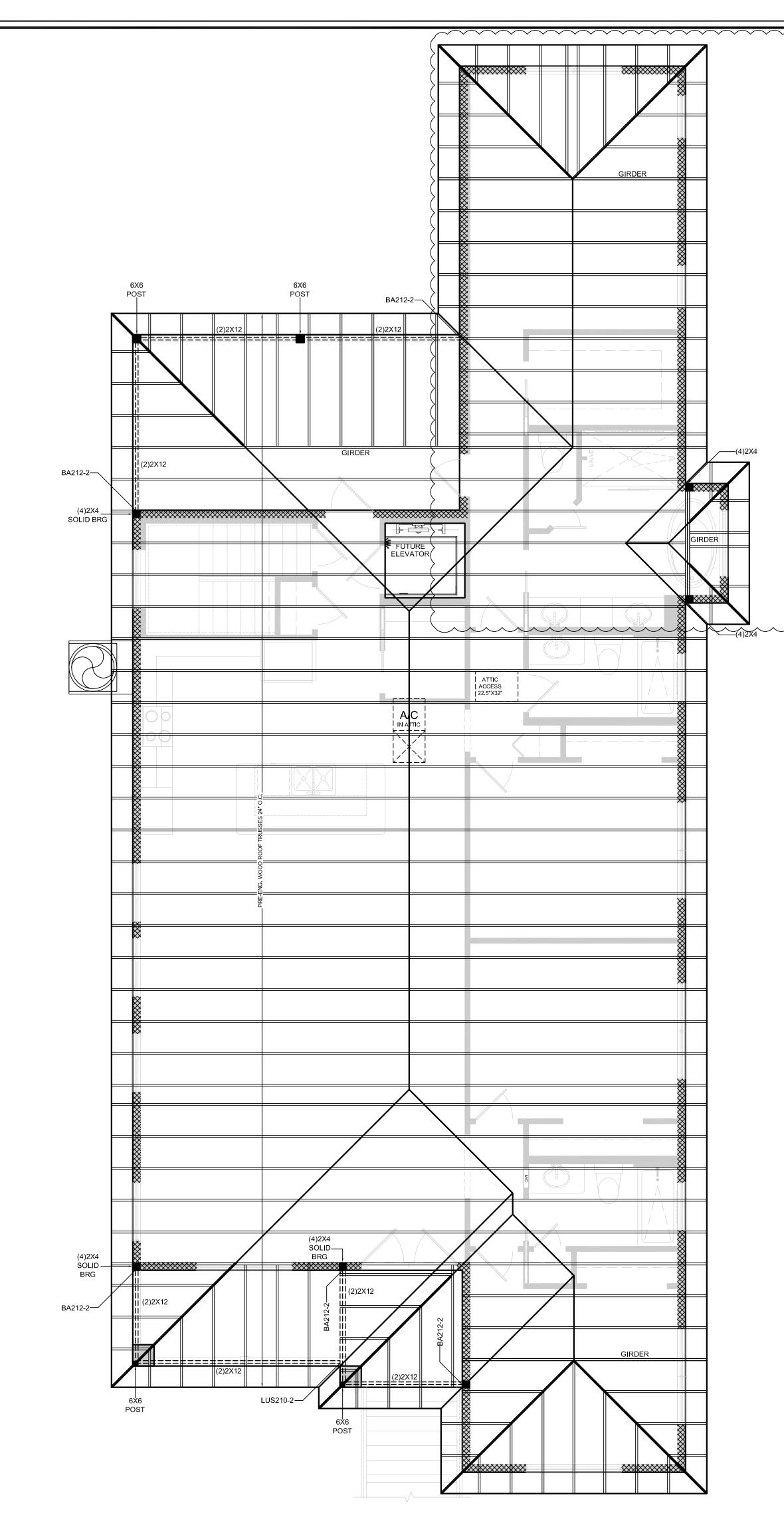
BEARING WALLS

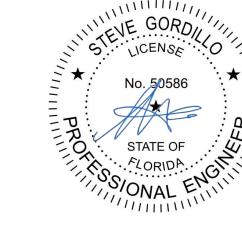
SIMPSON CONNECTOR OPTION

SP1 @ SOLE PLATE

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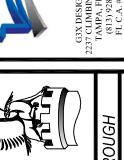


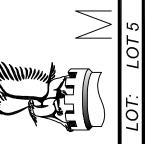


10/22/2024









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4/E	REVISION DESIGNER	IEK
3-24	FINALS FOR PERMIT	C∕
1-24	SWITCHED INSULATION TYPE	ØV
11-24	REDESIGNED MASTER BATH	GΝ

TRUSS LAYOUT

UND

STUCCO BEAD NAILING PATTERN

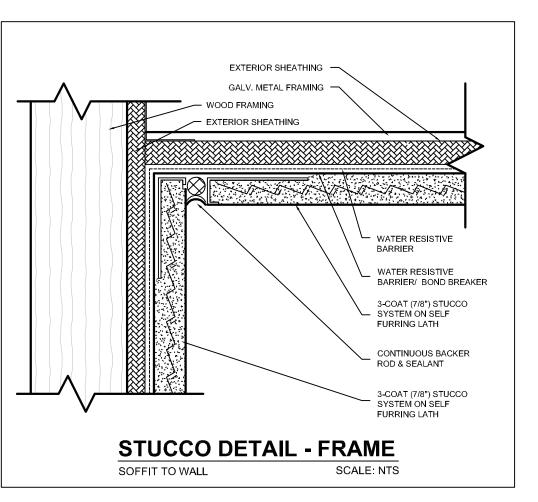
THE NAIL PATTERN FOR ALL STUCCO CORNER BEADS, $\frac{3}{4}$ " REVEAL JOINTS, FLOOR LEVEL CONTROL JOINTS, CONTROL JOINTS, INSIDE CORNERS AND OUTSIDE CORNERS SHALL BE NO MORE THAN 10" ON CENTER VERTICALLY AND HORIZONTALLY.

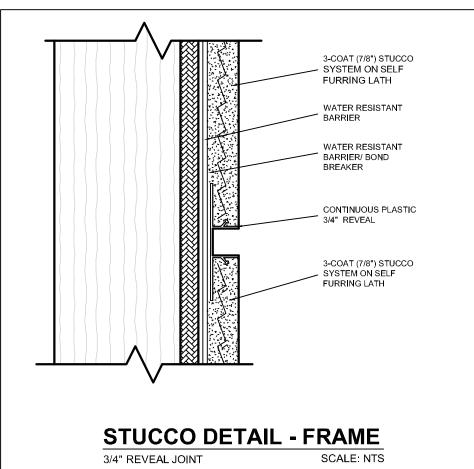
METAL LATH FASTENERS

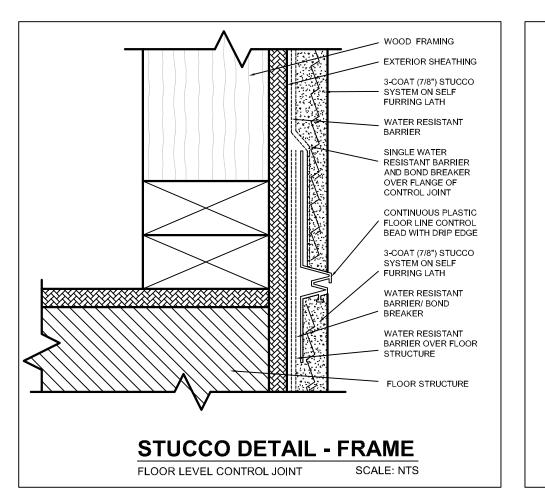
1. INSTALLATION OF LATH TO BE ACCORDING TO ASTM C1063.

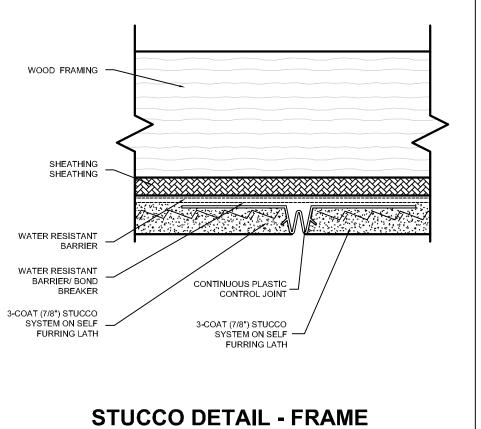
- 2. LATH SHALL BE FASTENED TO WOOD STRUCTURAL PANELS WITH CORROSION RESISTANT 1- $\frac{1}{2}$ " LONG X $\frac{3}{4}$ " CROWN, 16 GAGE STAPLES DIRECT TO THE SHEATHING PANEL SPACED NOT MORE THAN 6-INCHES ON CENTER VERTICALLY AND HORIZONTALLY.
- 3. FASTENERS HAVE A WITHDRAWAL CAPACITY OF=90 PSF AND ARE ACCEPTABLE FOR WIND SPEEDS UP TO 170MPH, EXP "C".
- 4. THE STAPLE PATTERN FOR ALL STUCCO CORNER BEADS, $\frac{3}{4}$ " REVEAL JOINTS, FLOOR LEVEL CONTROL JOINTS, CONTROL JOINTS, INSIDE CORNERS AND OUTSIDE CORNERS SHALL BE NO MORE THAN 6" ON CENTER VERTICALLY AND HORIZONTALLY.

STUCCO NOTES

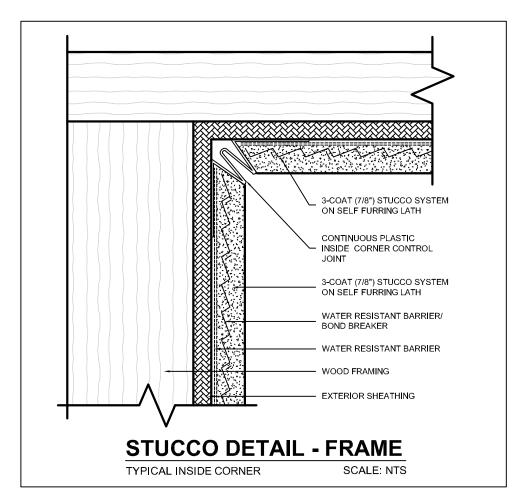


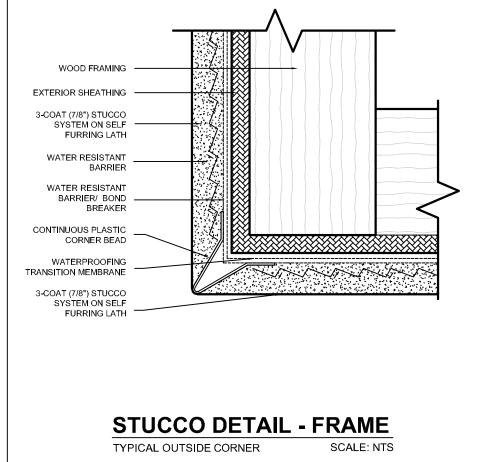


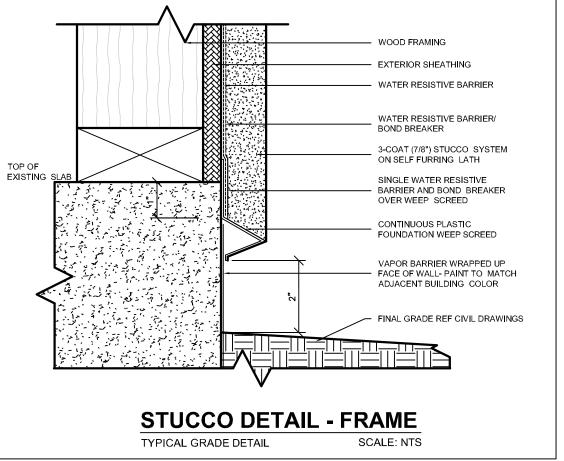


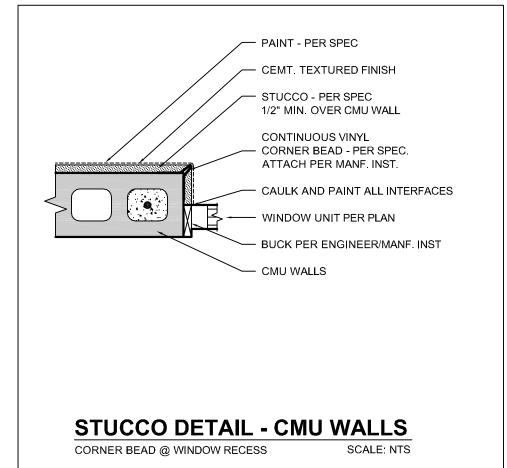


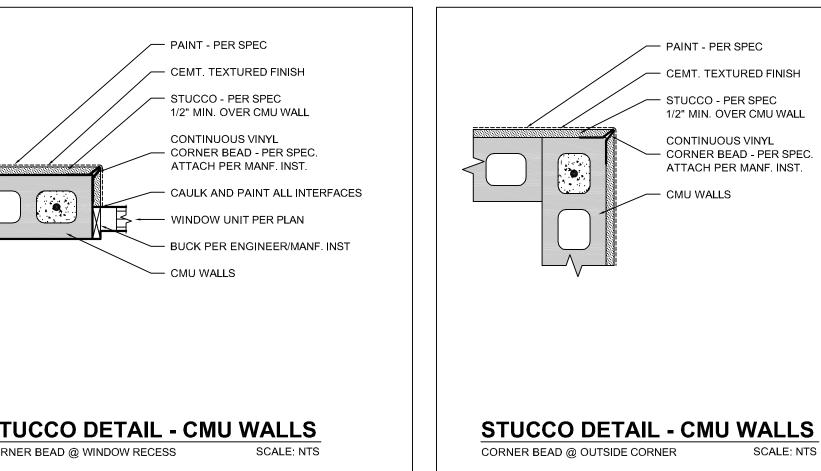
TYPICAL CONTROL JOINT

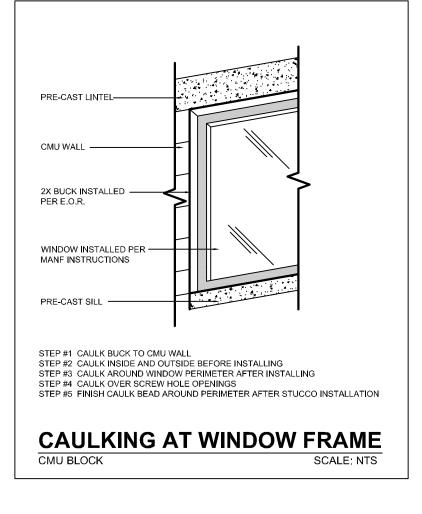


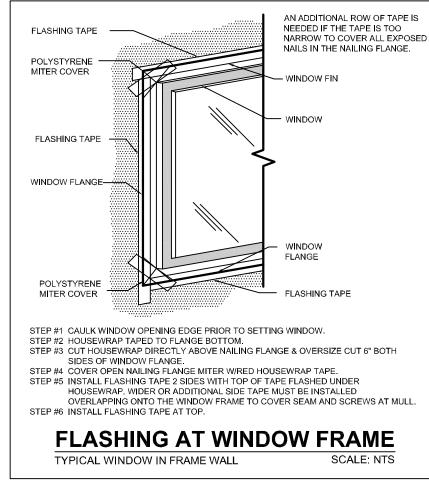


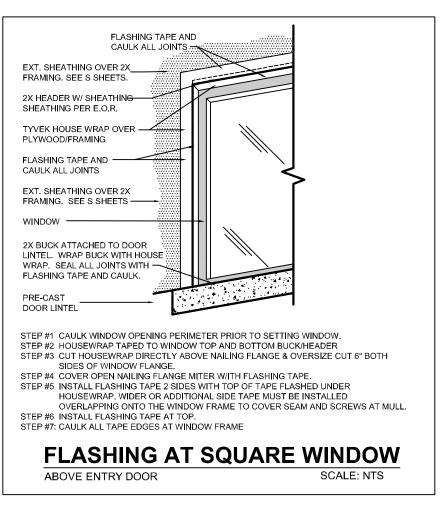


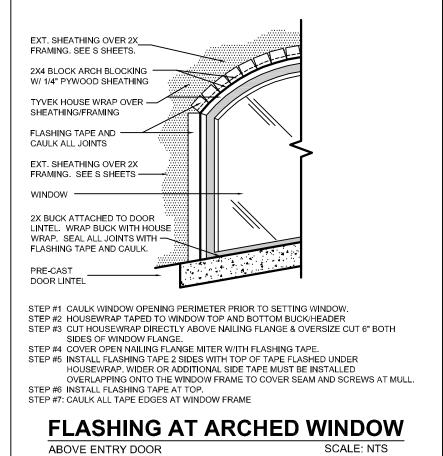


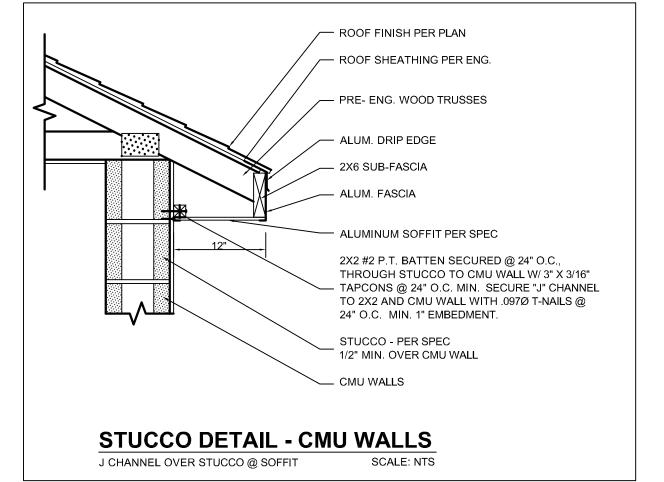


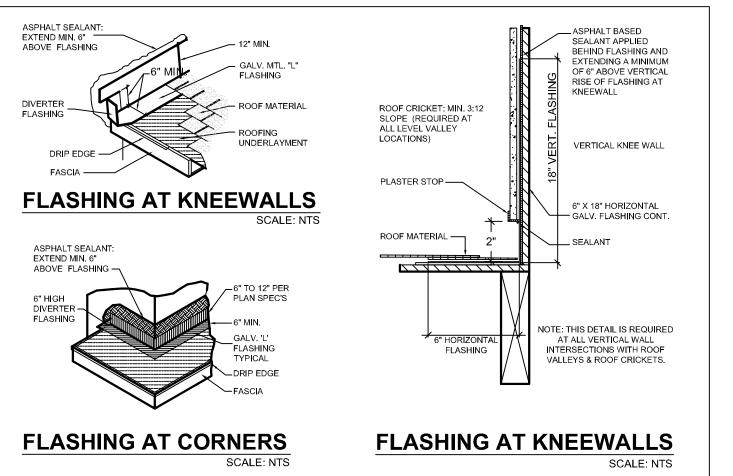


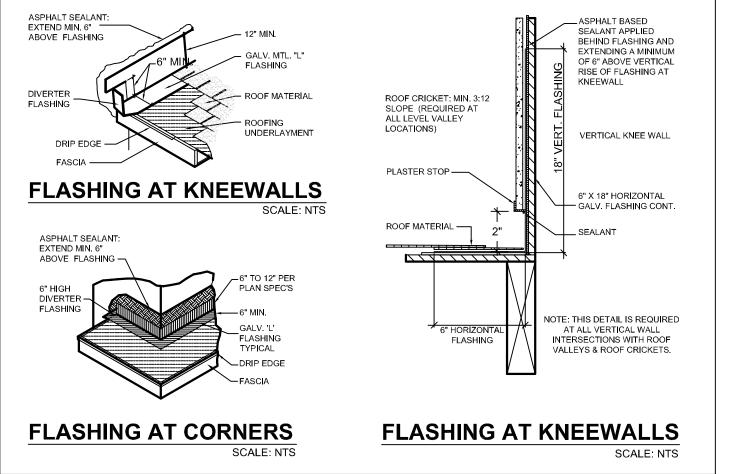












GENERAL NOTES AND SPECIFICATIONS

2020 FLORIDA BUILDING CODE, RESIDENTIAL 1TH EDITION. AMERICAN CONCRETE INSTITUTE OF STRUCTURAL CONCRETE (ACI 318). AMERICAN CONCRETE INSTITUTE OF MASONRY STRUCTURES (TMS 402/ACI 530/ASCE 5) THE MASONRY SOCIETY DIRECT DESIGN HANDBOOK FOR MASONRY STRUCTURES (TMS 403)

AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES (ASCE-1-16)

SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS LATEST ED. DESIGN SPECIFICATION FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES BY THE TRUSS PLATE INSTITUTE (TPI) LATEST DESIGN NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS) LATEST EDITION. AMERICAN PLYWOOD ASSOCIATION DESIGN CONSTRUCTION GUIDE (APA) LATEST EDITION.

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DESIGN CRITERIA

ROOF LOADS

ROOF LIVE LOADS - 20 PSF ROOF DEAD LOAD (SHINGLE ROOF) - 20 PSF ROOF DEAD LOAD (TILE ROOF) - 25 PSF

ADDITIONAL ATTIC STORAGE LIVE LOAD - 10 PSF ATTIC SPACE SHALL BE DESIGNED AS UNINHABITABLE

LIVING AREA LIVE LOADS - 40 PSF LIVING AREA DEAD LOADS - 15 PSF (CARPET OR WOOD) LIVING AREA DEAD LOADS - 20 PSF (TILE) GUARDS AND HANDRAILS - 200 :

+ SINGLE CONCENTRATED LOAD APPLIED AT ANY DIRECTION ALONG THE TOP ** GUARD IN FILL (EXCEPT HANDRAIL) BALUSTERS AND PANEL FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED LOAD OF 50 PSF, LOAD NEED NOT BE ASSUMED TO ACT CONCURRENTLY WITH ANY OTHER LIVE LOAD REQUIREMENT

BALCONY LOADS

BALCONY LIVE LOAD - 60 PSF BALCONY DEAD LOAD - 20 PSF (CONTACT ENGINEER FOR ANY FLOORING THAT EXCEEDS

FOUNDATION DESIGN (SHALLOW FOUNDATIONS) ALL FOUNDATIONS ARE CENTERED UNDER SUPPORTED COLUMNS AND WALLS

ALL EXTERIOR WALLS SHALL SUPPORTED BY CONCRETE FOOTERS AS PER FBC 403.1. SEE YPICAL WALL SECTION FOR DETAILS.

FOOTINGS SHALL BE LEVEL OR SHALL BE STEPPED SO THAT BOTH TOP AND BOTTOM OF BUCH FOOTINGS ARE LEVEL. THE BOTTOM OF ALL FOOTINGS, EXCEPT MONOLITHIC SLAB-ON-GRADE INTERIOR FOOTINGS, SHALL BE A MINIMUM OF 12 INCHES (30/5 MM) BELOW

FOUNDATION STEMWALLS SHALL BE AS THICK AS OR THICKER THAN THE WALL SUPPORTED ABOVE, BUT IN NO CASE LESS THAN 8 INCHES (203 MM) THICK FOR MASONRY

SOIL DESIGN CRITERIA

MINIMUM ALLOWABLE SOIL PRESSURE 2000 PSF

IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY SOIL CONDITIONS AND REQUIRED COMPACTION. ENGINEER STRONGLY RECOMMENDS A REGISTERED GEOTECHINCAL ENGINEER SHALL VERIFY ACTUAL CONDITIONS PRIOR TO PLACEMENT OF THE FOOTING. IF THE FOUNDATION IS ON PREPARED FILL THE REGISTERED GEOTECHNICAL ENGINEER SHALL VERIFY THE SUITABILITY OF FILL FOR USE AND DETERMINE THE BEARING CAPACITY. ENGINEER IS NOT RESPONSIBLE FOR EXISTING SOIL CONDITIONS AND HAS BASED THE FOUNDATION DESIGN ON A MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF

PRESUMPTIVE CAPACITIES

THE ALLOWABLE BEARING CAPACITIES FOR SOILS CONSISTING OF UNDISTURBED SAND, OR SAND AND ROCK, MAY BE TAKEN AS A MAXIMUM OF 2000 PSF UNLESS A HIGHER VALUE IS SUBSTANTIATED BY RECOGNIZED TEST, ANALYSIS OR PROCEDURE. THIS VALUE IS CONSIDERED SAFE WITH RESPECT TO ACTUAL FAILURE OF THE SUPPORTING GROUND, BUT DOES NOT NECESSARILY ENSURE THE PREVENTION OF EXCESSIVE FOUNDATION

REPLACEMENT OF DEFECTIVE SOIL

FILL TO SUPPORT FOUNDATIONS

SOIL UNDER THE FOOTINGS CONTAMINATED WITH ORGANIC MATERIALS OR TRASH MUST BE REPLACED WITH CLEAN FILL AS BELOW IF THERE IS ANY EVIDENCE THAT THE SOILS ARE NOT UNDISTURBED SAND OR SAND AND ROCK,

A FILLED SUBGRADE LAID IN 6 INCH LIFTS, SHALL BE THOROUGHLY COMPACTED BY

APPROVED METHODS, ALL FILL PLACED UNDER FOUNDATIONS SHALL BE CLEAN SAND OR ROCK, FREE OF DEBRIS AND OTHER DELETERIOUS MATERIALS. VOIDS AROUND ROCKS SHALL BE CAREFULLY FILLED AND PROPERLY

THE FILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY FOR ALL LAYERS, AS VERIFIED BY ASTM DISST FIELD DENSITY TESTS.

TERMITE PROTECTION

SECTION R318

PROTECTION AGAINST TERMITES R3IS.I TERMITE PROTECTION. TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS A PREVENTATIVE TREATMENT TO NEW CONSTRUCTION. SEE SECTION 202, "REGISTERED TERMITICIDE." UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE 166UED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY HAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

R3I8.1.1 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, THE INITIAL CHEMICAL SOIL TREATMENT INSIDE THE FOUNDATION PERIMETER SHALL BE DONE AFTER ALL EXCAVATION, BACKFILLING AND COMPACTION IS COMPLETE.
R3I8.12 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SOIL AREA DISTURBED AFTER INITIAL CHEMICAL SOIL TREATMENT SHALL BE RETREATED WITH A CHEMICAL SOIL TREATMENT, INCLUDING SPACES BOXED OR FORMED. R318.13 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SPACE IN CONCRETE FLOORS BOXED OUT OR FORMED FOR THE SUBSEQUENT INSTALLATION OF PLUMBING TRAPS, DRAINS OR ANY OTHER PURPOSE SHALL BE CREATED BY USING PLASTIC OR METAL PERMANENTLY PLACED FORMS OF SUFFICIENT DEPTH TO ELIMINATE ANY PLANNED SOIL DISTURBANCE AFTER INITIAL CHEMICAL SOIL TREATMENT.
R318.1.4 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICALLY TREATED SOIL SHALL BE
PROTECTED WITH A MINIMUM 6 MIL VAPOR RETARDER TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE
VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. ANY WORK, INCLUDING PLACEMENT OF REINFORCING STEEL, DONE

AFTER CHEMICAL TREATMENT UNTIL THE CONCRETE FLOOR IS POURED, SHALL BE DONE IN SUCH MANNER AS TO AVOID PENETRATING OR DISTURBING TREATED SOIL. R318.15 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CONCRETE OVERPOUR OR MORTAR ACCUMULATED ALONG THE EXTERIOR FOUNDATION PERIMETER SHALL BE REMOVED PRIOR TO EXTERIOR CHEMICAL SOIL TREATMENT, TO ENHANCE VERTICAL PENETRATION OF THE CHEMICALS.
R318.16 IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICAL SOIL TREATMENTS SHALL ALSO BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN I FOOT OF THE PRIMARY STRUCTURE SIDEWALLS. ALSO, A

VERTICAL CHEMICAL BARRIER SHALL BE APPLIED PROMPTLY AFTER CONSTRUCTION 16 COMPLETED, INCLUDING INITIAL LANDSCAPING AND IRRIGATION/SPRINKLER INSTALLATION. ANY SOIL DISTURBED AFTER THE CHEMICAL VERTICAL BARRIER IS APPLIED SHALL BE PROMPTLY RETREATED. R318.17 IF A REGISTERED TERMITICIDE FORMULATED AND REGISTERED AS A BAIT SYSTEM IS USED FOR SUBTERRANEAN TERMITE

SECTIONS R318.1.1 THROUGH R318.1.6 DO NOT APPLY± HOWEVER, A SIGNED CONTRACT ASSURING THE INSTALLATION, MAINTENANCE AND MONITORING OF THE BAITING SYSTEM THAT IS IN COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 483 FLORIDA STATUTES SHALL BE PROVIDED TO THE BUILDING OFFICIAL PRIOR TO THE POURING OF THE SLAB, AND THE SYSTEM MUST BE INSTALLED PRIOR TO FINAL BUILDING APPROVAL. IF THE BAITING SYSTEM DIRECTIONS FOR USE REQUIRE A MONITORING PHASE PRIOR TO INSTALLATION OF THE PESTICIDE ACTIVE INGREDIENT, THE INSTALLATION OF THE MONITORING PHASE COMPONENTS SHALL BE DEEMED TO CONSTITUTE INSTALLATION OF THE SYSTEM.
R318.1.8 IF A REGISTERED TERMITICIDE FORMULATED AND REGISTERED AS A WOOD TREATMENT IS USED FOR SUBTERRANEAN
TERMITE PREVENTION, SECTIONS R318.1.1 THROUGH R318.1.6 DO NOT APPLY. APPLICATION OF THE WOOD TREATMENT TERMITICIDE SHALL BE AS REQUIRED BY LABEL DIRECTIONS FOR USE, AND MUST BE COMPLETED PRIOR TO FINAL BUILDING APPROVAL.

MASONRY NOTES

JOINT FILLERS ARE NOT APPLICABLE

LINTELS TO BE BY CAST-CRETE UNLESS OTHERWISE NOTED.

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES (ACI 530/ASCE 6/TMS 602)". PUBLISHED BY THE MASONRY SOCIETY, BOULDER, COLORADO. THE AMERICAN CONCRETE INSTITUTE FARMINGTON HILLS MICHIGAN: AND THE AMERICAN SOCIETY OF CIVIL ENGINEERS RESTON, VIRGINIA: EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS. TESTING OF FIELD MATERIALS FOR QUALITY CONTROL IS NOT REQUIRED BY ENGINEER FOR THIS PROJECT. COMPRESSIVE STRENGTH REQUIREMENT IS 1'm=1500 PSI. DETERMINATION OF COMPRESSIVE STRENGTH IS THE ALLOWABLE STRESS METHOD. UNIT STRENGTH METHOD IS NOT APPLICABLE. QUALITY STRENGTH METHOD IS NOT APPLICABLE. QUALITY STRENGTH METHOD IS NOT APPLICABLE. GROUT SHALL COMPLY WITH ASTM C416. GROUT SHALL BE 3000 PSI UN.O. AND HAVE A SLUMP RANGE OF 8'-11'. MORTAR MATERIALS SHALL BE TYPE M OR S GRAY MORTAR MASONRY UNIT MATERIALS SHALL BE 1900 PSI MIN. CONCRETE MASONRY UNIT. REINFORCEMENT, PRE-STRESSED TENDONS AND METAL ACCESSORIES SHALL BE 60 KSI REBAR (MIN.). WELDED WIRE FABRIC TO BE INSTALLED AS SPECIFIED ON PLAN SET. STAINLESS STEEL IS NOT APPLICABLE. COATING FOR CORROSION PROTECTION IS NOT APPLICABLE. CORROSION PROTECTION FOR TENDONS IS NOT APPLICABLE. PRE-STRESSING ANCHORAGE, COUPLERS AND END BLOCKS ARE NOT APPLICABLE.

REQUIRED SAFETY GLAZING IN HAZARDOUS LOCATIONS

THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PUROPSE OF GLAZING:

GLAZING IN SWINGING DOORS AND FIXED GLASS GLASS AND SLIDING GLASS DOORS (PANELS) DOOR ASSEMBLIES. GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS BATHTUBS, AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60° (1524 MM) ABOVE THE FLOOR OR

B. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT A DOOR WHERE THE NEAREST VERTICAL EDGE 15 WITHIN A 24-INCH (610 MM) RADIUS OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES (1524 MM) ABOYE THE FLOOR OR WALKING

4. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL OTHER THAN THOSE LOCATIONS DESCRIBED IN ITEMS 2 AND 3 ABOVE, THAT MEETS ALL OF THE

EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9.0 (.84 M SQ.). BOTTOM EDGE LESS THAN 18 INCHES (451 MM) ABOVE THE FLOOR. TOP EDGE GREATER THAN 36 INCHES (914 MM) ABOVE THE FLOOR.

ONE OR MORE WALKING SURFACES WITHIN 36 INCHES (914 MM) HORIZONTALLY OF THE PANE OF GLAZING. ALL GLAZING IN RAILINGS REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE INCLUDING STRUCTURAL BALUSTER PANELS AND

NON-STRUCTURAL IN-FILL PANELS. 6. GLAZING IN WALLS AND FENCES ENCLOSING INDOOR AND OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EDGE OF THE GLAZING IS (1) LESS THAN 60 NCHES (1525 MM) ABOVE THE WALKING SURFACE ON THE POOL SIDE, AND (2) WITHIN 36 INCHES (914 MM) HORIZONTALLY OF THE WALKING SURFACE ON THE

POOL SIDE. THIS SHALL APPLY TO SINGLE GLAZING, AND ALL PANES IN MULTIPLE GLAZING, GLAZING ADJACENT TO THE BOTTOM STAIR LANDING. I. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES (914 MM) ABOVE THE LANDING AND WITHIN A 60-INCH (1524 MM) HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING SHALL BE CONSIDERED TO BE A HAZARDOUS

AIR HANDLER GENERAL NOTES

R403.3.6 AIR-HANDLING UNITS AIR-HANDLING UNITS SHALL NOT BE INSTALLED IN THE ATTIC WHEN A HOME IS BROUGHT INTO CODE COMPLIANCE BY SECTION R402, AIR-HANDLING UNITS SHALL BE ALLOWED IN ATTICS

FOR COMPLIANCE BY SECTION R405 ONLY IF THE FOLLOWING CONDITIONS ARE MET: THE SERVICE PANEL OF THE EQUIPMENT IS LOCATED WITHIN 6 FEET (1829 MM) OF AN ATTIC ACCESS.

A DEVICE IS INSTALLED TO ALERT THE OWNER OR SHUT DOWN THE UNIT WHEN THE CONDENSATION DRAIN

19 NOT WORKING PROPERLY.

3. THE ATTIC ACCESS OPENING IS OF SUFFICIENT SIZE TO REPLACE THE AIR HANDLER.

4. A NOTICE IS POSTED ON THE ELECTRIC SERVICE PANEL INDICATING TO THE HOMEOWNER THAT THE AIR. HANDLER IS LOCATED IN THE ATTIC. SAID NOTICE SHALL BE IN ALL CAPITALS, IN 16-POINT TYPE, WITH THE TITLE AND FIRST PARAGRAPH IN BOLD: NOTICE TO HOMEOWNER A PART OF YOUR AIR-CONDITIONING SYSTEM, THE AIR HANDLER, IS LOCATED IN THE ATTIC. FOR PROPER, EFFICIENT AND ECONOMIC OPERATION OF THE AIR CONDITIONING SYSTEM, YOU MUST ENSURE THAT REGULAR MAINTENANCE IS PERFORMED. YOUR AIR-CONDITIONING SYSTEM IS EQUIPPED WITH ONE OR BOTH OF THE FOLLOWING: (1) A

DEVICE THAT WILL ALERT YOU WHEN THE CONDENSATION DRAIN IS NOT WORKING PROPERLY OR (2) A DEVICE THAT WILL SHUT DOWN THE SYSTEM WHEN THE CONDENSATION DRAIN IS NOT WORKING. TO LIMIT POTENTIAL DAMAGE TO YOUR HOME, AND TO AVOID DISPUPTION OF SERVICE, IT IS RECOMMENDED THAT YOU ENSURE PROPER WORKING ORDER OF THESE DEVICES BEFORE EACH SEASON OF PEAK OPERATION

SPECIFICATIONS FOR LANDINGS AND STAIR CONSTRUCTION

* ALL STRINGERS TO ATTACH TO LANDINGS AND UPPER FLOOR LEVELS WITH SIMPSON LSC HANGER.

* STRINGERS RUNNING PARALLEL TO AND SUPPORTED BY A WALL SHALL BE ATTACHED; AT MASONRY WITH 1/4" DIA x 3" TAPCONS AT 8" O.C. STAGGERED. ALONG THE LENGTH OF OF THE STRINGER (USE PT AT MAS/CONC.). AT WOOD WITH (4) Ø.131 x 3-1/2" NAILS AT EACH STUD MIN. 16" O.C. IF STRINGERS ARE UPPORTED IN THIS WAY, LSU HANGERS ARE NOT REQUIRED AT THE ENDS. ALL STRINGERS SPRINGING FROM A FLAT SURFACE SHALL TERMINATE AT 2x4 FOOT (TO BE PT AT CONC.) ATTACH FOOT TO FLOOR: AT CONC. WITH 1/4" DIA x 3" TAPCONS AT 12" O.C., AT WOOD ATTACH Ø131 X 3-1/2" NAILS AT 8" O.C., TO TRUSS/JOIST OR BLOCKING BELOW, ATTACH STRINGER TO FOOT WITH (2) Ø131 X 3-1/2"

TOENAILS EA. LANDINGS SHALL BE BUILT AS FOLLOUS: * JOIST TO BE 2X8 NO.2 S.Y.P. MIN 16" O.C. IF LANDING INCLUDES STRINGER SUPPORT IN A BEAM CONFIGURATION, BEAM SHALL BE (2) 2x12 NO.2 S.Y.P. WITH (2) 2x4 SUPPORT AT EACH END. • IF LANDING IS SUPPORTED BY A KNEE WALL, PROVIDE A 2x8 END JOIST WITH (3) Ø.131 x 3-1/2" RS. END NAILS AT EACH LANDING JOIST, AND (2) Ø.131 x 3-1/2" TOE NAILS FROM EACH JOIST TO KNEE WALL TOP PLATE. LEDGERS TO BE 2x8 WITH:

* (4) Ø.131 x 3-1/2" NAILS AT EACH PASSING STUD AT WOOD ATTACHMENT 16" O.C. MAX. • 1/4" x 3" TAPCONS AT 8" O.C. STAGGERED AT MASONRY/CONCRETE ATTACHMENT.

· ATTACH JOIST TO LEDGERS OR BEAMS WITH SIMPSON LUS26 HANGERS OR EQUAL. THE SPECIFICATION LISTED ABOVE OR MINIMUM SPECS. SUBSTITUTIONS OF EQUAL OR BETTER CAPACITY ARE ACCEPTABLE. · GUARDRAILS AND HANDRAILS ARE BY OTHERS, INCLUDING THEIR ATTACHMENTS. ALL RAIL SYSTEMS MUST MEET OR EXCEED THE REQUIREMENTS OF FBC

FLASHING REQUIREMENTS

FLASHING REQUIREMENTS DUE TO CLARITY NOT ALL REQUIRED FLASHING IS INDICATED ON THE DRAWINGS. FLASHING BHALL BE INSTALLED PER FBC 2020 R703.4. CODE SECTION HAS BEEN PROVIDED BELOW AS REFERENCE ONLY R703.4 FLASHING. APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS, SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA TII, ALL EXTERIOR ENESTRATION PRODUCTS SHALL BE SEALED AT THE JUNCTURE WITH THE BUILDING WALL WITH A SEALANT COMPLYING WITH AAMA 800 OR ASTM C920 CLASS 25 GRADE NS OR GREATER FOR PROPER JOINT EXPANSION AND CONTRACTION ASTM C1281, AAMA 812, OR OTHER APPROVED STANDARD AS APPROPRIATE FOR THE TYPE OF SEALANT, FLUID-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY WITH AAMA 114. THE FLASHING SHALL EXTEND TO HE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION-RESISTANT FLASHING SHALL BE INSTALLED AT

THE FOLLOWING LOCATIONS:
EXTERIOR WINDOW AND DOOR OPENINGS, FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER COMPLYING WITH SECTION 1032 FOR SUBSEQUENT DRAINAGE. MECHANICALLY ATTACHED FLEXIBLE FLASHINGS SHALL COMPLY WITH AAMA 112. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL BE INSTALLED IN ACCORDANCE WITH ONE OR MORE

THE FENESTRATION MANUFACTURER 'S INSTALLATION AND FLASHING INSTRUCTIONS OR FOR APPLICATIONS NOT ADDRESSED IN THE FENESTRATION MANUFACTURER 'S INSTRUCTIONS, IN ACCORDANCE WITH THE FLASHING MANUFACTURER 'S INSTRUCTIONS. WHERE FLASHING INSTRUCTIONS OR DETAILS ARE NOT PROVIDED, PAN FLASHING SHALL BE INSTALLED AT THE SILL OF EXTERIOR WINDOW AND DOOR OPENINGS, PAN FLASHING SHALL BE SEALED OR SLOPED IN SUCH A MANNER AS TO DIRECT WATER TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE. OPENINGS USING PAN FLASHING SHALL INCORPORATE FLASHING OR PROTECTION AT THE HEAD AND SIDES.

IN ACCORDANCE WITH THE FLASHING DESIGN OR METHOD OF A REGISTERED DESIGN PROFESSIONAL. IN ACCORDANCE WITH OTHER APPROVED METHODS. IN ACCORDANCE WITH FMA/AAMA 100, FMA/AAMA 200, FMA/WIDMA 250, FMA/AAMA/ WIDMA 300 OR

FMA/AAMA/WDMA 400.

2. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.

UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIN

WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME

6. AT WALL AND ROOF INTERSECTIONS. AT BUILT-IN GUTTERS

WALL COVERING NOTES

R7036.1 LATH, ALL LATH AND LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIALS, EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED WITH 11/2-INCH-LONG (38 MM), 11 GAGE NAILS HAVING A 7/16-INCH (11.1 MM) HEAD, OR 7/8-INCHLONG (222 MM), 16 GAGE STAPLES, SPACED AT NO MORE THAN 6 INCHES (152 MM), OR AS OTHERWISE APPROVED.

RT03.6.2 PLASTER PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE LATH AND SHALL BE NOT LESS THAN TWO COATS WHEN APPLIED OVER MASONRY, CONCRETE, PRESSURE-PRESERVATIVE TREATED WOOD OR DECAY-RESISTANT WOOD AS SPECIFIED IN SECTION

IF THE PLASTER SURFACE IS COMPLETELY COVERED BY VENEER OR OTHER FACING MATERIAL OR IS COMPLETELY CONCEALED, PLASTER APPLICATION NEED BE ONLY TWO COATS, PROVIDED THE TOTAL THICKNESS IS AS SET FORTH IN TABLE R702.1(1).

R703.6.2.1 WEEP SCREEDS. A MINIMUM 0.019-INCH (0.5 (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED, WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 31/2 INCHES (89 MM) SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C 926. THE WEEP SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES (102 MM) ABOVE THE EARTH OR 2 INCHES (5) MM) ABOVE PAVED AREAS AND SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF

RT03.6.3 WATER-RESISTIVE BARRIERS. WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED IN SECTION RT032 AND, WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER. THE INDIVIDUAL LAYERS SHALL BE INSTALLED INDEPENDENTLY SUCH THAT EACH LAYER PROVIDES A SEPARATE CONTINUOUS PLANE AND ANY FLASHING (INSTALLED IN ACCORDANCE WITH SECTION RT03.8) INTENDED TO DRAIN TO THE WATER-RESISTIVE BARRIER IS DIRECTED BETWEEN

EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN THAT OF 60-MINUTE GRADE D PAPER AND IS SEPARATED FROM THE STUCCO BY AN INTERVENING, SUBSTANTIALLY NONWATER-ABSORBING LAYER OR DESIGNED DRAINAGE SPACE.

FRAMING NOTES

MINIMUM OF 3-PLY 2x STUD 5.Y.P. COLUMNS TO BE INSTALLED AT BEAM OR GIRDER TRUSS BEARING LOCATIONS UN.O. MINIMUM OF 3-PLY 2x STUD 5.Y.P. COLUMNS TO BE INSTALLED AT BEAM OR GIRDER TRUSS BEARING LOCATIONS UN.O.

ALL TRUSS BRACING LUMBER SHALL BE S.Y.P. NO.2 OR BETTER.

INTERIOR LOAD BEARING (IF APPLICABLE) WALL STUDS SPACED AT 16 O.C. AND SHALL BE S.Y.P. NO.2 OR BETTER TYPICAL AT ALL LOAD BEARING S.Y.P. COMPONENTS, NO.1 GRADE SHALL BE USED FOR 2x4, FOR 2x DEPTHS GREATER THAN 2x4, NO2 GRADE OR BETTER MAY BE USED. ALL 4x MATERIAL MAY BE NO2 GRADE UN.O.

INTERIOR NON-LOAD BEARING WALLS SHALL BE UTILITY GRADE OR BETTER

INSTALL BLOCKING IN ALL WALL STUDS OVER 8'-0' AT MID-HEIGHT, AND SHEATHING JOINT.

BRACE GABLE END WALLS AT 4'-0' O.C. AS SHOWN IN DRAWINGS.

ALL LOAD BEARING WALLS SHALL HAVE S.Y.P. DOUBLE TOP PLATES AND SHALL BE FASTENED PER P/S5. BOTTOM PLATES SHALL BE S.Y.P. (PT AT CONC.).

INTERIOR BEARING COLUMNS TO HAVE S.Y.P. TOP PLATE.

COLUMNS WITH REACTION LOADS OVER 5000* TO BE CONTINUOUS THRU TOP PLATE TO GIRDER. ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED OR NATURAL DURABLE WOOD. PRESSURE TREATED LUMBER SHALL BE IMPREGNATED WITH CCA SALT TREATMENT IN ACCORDANCE WITH F.S. 11-W-511 AND BARE THE AMERICAN WOOD PRESERVES INSTITUTE EQUALITY MARK LP-2.

ALL SHEATHING TO BE SPAN RATED FOR APPROPRIATE APPLICATION. ALL ROOF SHEATHING ATTACHMENT, CLIPS (MAX. 24° OC.) REFER TO PLANS FOR SHEATHING THICKNESS, ATTACHMENT,

ALL NAILING AND BOLTING SHALL COMPLY WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION REQUIREMENTS. ALL NAILS EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED.

ALL CONNECTION HARDWARE SHALL BE GALVANIZED AND SUPPLIED BY SIMPSON STRONG TIE CO., USP OR EQUIVALENT. SUBMIT CUT SHEETS FOR ALL CONNECTION HARDWARE TO ENGINEER FOR APPROVAL. ALL NAIL HOLES SHALL BE FILLED OR AS RECOMMENDED BY THE MANUFACTURER.

BRACING: TEMPORARY BRACING OF THE ROOF SYSTEM SHALL BE INSTALLED PER BCSI RECOMMENDATIONS AND SHALL BE UTILIZED AS THE PERMANENT BRACING FOR THE ROOF SYSTEM.

ALL WOOD FRAMING SHALL BE IN COMPLIANCE WITH THE LATEST NDS EDITION FOR WOOD CONSTRUCTION.

WOOD DESIGN CRITERIA

WOOD FRAMING MEMBERS SHALL BE 2 SOUTHERN YELLOW PINE (UN.O.) WITH AN ALLOWABLE BENDING STRESS (FID) = 1,000 PSI AND A MODULUS OF ELASTICITY = 1.400,000 PSI (DOES NOT INCLUDE INTERIOR NON LOAD BEARING STUD WALLS)

DESIGN, FABRICATE AND ERECT WOOD TRUSSES IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES BY THE TRUSS PLATE INSTITUTE.

ALL EXPOSED WOOD OR WOOD IN CONTACT WITH EARTH OR CONCRETE SHALL BE PRESSURE TREATED

UNTREATED WOOD SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE. SEAT PLATES SHALL BE PROVIDED AT BEARING LOCATIONS WITHOUT WOODEN TOP PLATES

GENERAL TRUSS ENGINEERING NOTES

R502.1.10.3 34 IRC 502.11.3 34 ALTERATIONS TO TRUSSES

SHALL BE DESIGNED IN ACCORDANCE WITH APPROVED ENGINEERING PRACTICE. THE DESIGN AND MANUFACTURE OF METAL PLATE CONNECTED WOOD TRUSSES SHALL COMPLY WITH ANSI/TPI I, THE TRUGS DESIGN DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL WHERE REQUIRED BY FLORIDA STATUTE

R502.1.102 3/IRC 502.1123/BRACING. TRUGSEG SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL STABILITY IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONSTRUCTION DOCUMENTS FOR THE BUILDING AND ON THE INDIVIDUAL TRUSS DESIGN DRAWINGS. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH TPI/WTCA BCSI.

TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. ALTERATIONS RESULTING IN THE ADDITION OF LOAD (E.G., HVAC EQUIPMENT, WATER HEATER, ETC.), THAT EXCEED THE DESIGN LOAD FOR THE TRUSS, SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING THE ADDITIONAL LOADING.

R5021104 3/JRC 5021143/ TRUSS DESIGN DRAIJINGS TRUSS DESIGN DRAWINGS, PREPARED IN COMPLIANCE WITH SECTION R502.110.1, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND APPROVED PRIOR TO INSTALLATION. TRUSS DESIGN DRAWINGS SHALL BE PROVIDED WITH THE SHIPMENT OF TRUSSES DELIVERED TO THE JOB SITE. TRUSS DESIGN DRAWINGS SHALL INCLUDE, AT A MINIMUM, THE INFORMATION SPECIFIED BELOW:

I. SLOPE OR DEPTH, SPAN AND SPACING.

2 LOCATION OF ALL JOINTS 3. REQUIRED BEARING WIDTHS

4. DESIGN LOADS AS APPLICABLE 4.1. TOP CHORD LIVE LOAD:

4.3. BOTTOM CHORD LIVE LOAD:

4.4. BOTTOM CHORD DEAD LOAD± 4.5. CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION: AND 4.6. CONTROLLING WIND AND EARTHQUAKE LOADS.

5. ADJUSTMENTS TO LUMBER AND JOINT CONNECTOR DESIGN VALUES FOR CONDITIONS OF USE.

6. EACH REACTION FORCE AND DIRECTION.

1. JOINT CONNECTOR TYPE AND DESCRIPTION, E.G., SIZE, THICKNESS OR GAUGE, AND THE DIMENSIONED LOCATION OF EACH JOINT CONNECTOR EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE.

8. LUMBER SIZE, SPECIES AND GRADE FOR EACH MEMBER. B. CONNECTION REQUIREMENTS FOR:

9.1. TRUSS-TO-GIRDER-TRUSS± 9.2. TRUSS PLY-TO-PLY± AND 9.3. FIELD SPLICES.

0. CALCULATED DEFLECTION RATIO AND/OR MAXIMUM DESCRIPTION FOR LIVE AND TOTAL LOAD.

IL MAXIMUM AXIAL COMPRESSION FORCES IN THE TRUSS MEMBERS TO ENABLE THE BUILDING DESIGNER TO DESIGN THE SIZE, CONNECTIONS AND ANCHORAGE OF THE PERMANENT CONTINUOUS LATERAL BRACING. FORCES SHALL BE SHOWN ON THE TRUSS DRAWING OR ON SUPPLEMENTAL DOCUMENTS. 12. REQUIRED PERMANENT TRUSS MEMBER BRACING LOCATION.

TRUSS DESIGN DRAWINGS, PREPARED IN CONFORMANCE TO SECTION R802.1.1.1, SHALL BE PROVIDED TO THE BUILDING OFFICIAL AND APPROVED PRIOR TO INSTALLATION. TRUSS DESIGN DRAWINGS SHALL INCLUDE, AT A MINIMUM, THE INFORMATION SPECIFIED BELOW. TRUSS DESIGN DRAWINGS SHALL BE PROVIDED WITH THE SHIPMENT OF TRUSSES

DELIVERED TO THE JOBSITE. ULTIMATE DESIGN WIND SPEED, VULT, AND EXPOSURE CATEGORY. SLOPE OR DEPTH, SPAN AND SPACING.

LOCATION OF ALL JOINTS.

REQUIRED BEARING WIDTHS DESIGN LOADS AS APPLICABLE. 5.1. TOP CHORD LIVE LOAD (AS DETERMINED FROM SECTION R3016). 52. TOP

CHORD DEAD LOAD. 53. BOTTOM CHORD LIVE LOAD. 5.4. BOTTOM CHORD DEAD LOAD. 5.5. CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION. 5.6. CONTROLLING WIND AND EARTHQUAKE LOADS.

ADJUSTMENTS TO LUMBER AND JOINT CONNECTOR DESIGN VALUES FOR CONDITIONS OF USE

EACH REACTION FORCE AND DIRECTION.

JOINT CONNECTOR TYPE AND DESCRIPTION (E.G., SIZE, THICKNESS OR GAGE) AND THE DIMENSIONED LOCATION OF EACH JOINT CONNECTOR EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE. D. LUMBER SIZE, SPECIES AND GRADE FOR EACH MEMBER.

9. CONNECTION REQUIREMENTS FOR: IØ.1. TRUSS TO GIRDER-TRUSS. IØ2. TRUSS PLY TO PLY. IØ3. FIELD SPLICES.

CALCULATED DEFLECTION RATIO AND/OR MAXIMUM DESCRIPTION FOR LIVE AND TOTAL LOAD.

MAXIMUM AXIAL COMPRESSION FORCES IN THE TRUSS MEMBERS TO ENABLE THE BUILDING DESIGNER TO DESIGN

THE SIZE. CONNECTIONS AND ANCHORAGE OF THE PERMANENT CONTINUOUS LATERAL BRACING, FORCES SHALL BE SHOWN ON THE TRUSS DESIGN DRAWING OR ON SUPPLEMENTAL DOCUMENTS. 13. REQUIRED PERMANENT TRUSS MEMBER BRACING LOCATION

PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER (DELEGATED ENGINEER) AND FABRICATED IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION OF THE TRUSS PLATE INSTITUTE (TPI), THE TRUSS SYSTEM DESIGNER (DELEGATED ENGINEER) SHALL PREPARE THE TRUSS SYSTEM SHOP DRAWINGS, SUCH SHOP DRAWINGS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW AND APPROVAL. THE SHOP DRAWINGS SHALL MEET THE FOLLOWING REQUIREMENTS:

1. ALL SHOP DRAWINGS SHALL BE IN CONFORMITY WITH THE ARCHITECT OR ENGINEER OF RECORD FRAMING. PLANS UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT OR ENGINEER OF RECORD. IF REFRAMING IS APPROVED, THE ARCHITECT OR ENGINEER OF RECORD SHALL RESUBMIT REVISED FRAMING PLANS TO THE BUILDING OFFICIAL AFTER RECEIVING UPDATED PLANS FROM THE DELEGATED ENGINEER SHOWING ALL ADJUSTMENTS NECESSARY TO SAFELY TRANSMIT ALL APPLIED LOADS TO THE

2. PERMANENT BRACING OF INDIVIDUAL TRUGG MEMBERG MAY BE REQUIRED ON CERTAIN MEMBERG OF THE TRUGGEG TO PREVENT THE MEMBERG FROM BUCKLING IN THE PLANE NORMAL TO THE TRUSSES (BUCKLING IN THE NARROW DIRECTION), THIS BRACING SHALL BE DESIGNED FOR BOTH UPWARD AND DOWNWARD LOADS AND SHALL BE SHOWN ON THE INDIVIDUAL TRUSS DRAWINGS (TRUSS ENGINEERING USUALLY SHOUN ON 81/2-INCH BY 11-INCH (216 MM BY 279 MM) SHEETS ("A" SIZE DRAWINGS), THE DESIGN OF THIS BRACING SHALL BE THE RESPONSIBILITY OF THE DELEGATED ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THIS BRACING IS PROPERLY INSTALLED. THIS BRACING MAY BE IN THE FORM OF (BUT NOT LIMITED) TO "T" BRACING OF AN INDIVIDUAL MEMBER, OR LATERAL BRACING OF A SERIES OF MEMBERS COMMON TO A NUMBER OF TRUSSES, WHERE LATERAL BRACING IS USED, THIS BRACING SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT, IN ACCORDANCE WITH DETAILS PROVIDED BY THE DELEGATED ENGINEER. ALL DETAILS AND SECTIONS REQUIRED TO SHOW THE SIZE AND CONNECTIONS OF ALL SECONDARY MEMBERS WILL BE SUPPLIED ON THE DELEGATED ENGINEERING PLANS AND SHALL SHOW ALL FRAMING, CONNECTIONS AND BRACING ON ONE OR MORE PRIMARY PLANS OF MINIMUM SIZE 24 INCHES BY 36 INCHES.

3. A 61ZE 8 1/2-INCHES BY 11-INCHES CUT SHEETS SHOWING INDIVIDUAL MEMBER DESIGN SHALL ALSO BE FURNISHED TO THE ENGINEER OF RECORD.

4. THE SIZE AND LOCATION OF ALL PLATES AT EACH JOINT SHALL BE SHOWN ON THE TRUSS DESIGN DRAWINGS.

5. THE CONNECTION BETWEEN TRUSSES SHALL BE DETAILED IN THE SHOP DRAWINGS.

6. TRUSS DESIGN DRAWINGS SHALL INDICATE THE SUPPORT AND MINIMUM BEARING OF THE ROOF STRUCTURAL SYSTEM. THE PERMANENT CROSS/LATERAL BRACING, BRACING TO TRANSFER MEMBER BUCKLING FORCES TO THE STRUCTURE AND ALL BRACING AND ANCHORAGE REQUIRED TO RESIST UPLIFT AND LATERAL FORCES. 1. FLAT AND FLOOR TRUSSES MUST BE CLEARLY MARKED SO THAT THEY WILL BE INSTALLED RIGHT SIDE UP. THESE MARKS MUST REMAIN AFTER THE FLOORING, SHEATHING AND INSULATION HAVE BEEN INSTALLED.

THE INTENT OF THE ABOVE REQUIREMENTS IS TO PROVIDE ALL INFORMATION ON FRAMING, CONNECTIONS AND BRACING ON ONE COMPOSITE SET OF PLANS APPROVED BY THE ARCHITECT OR ENGINEER OF RECORD TO AID IN THE REVIEW, APPROVAL AND FIELD INSPECTIONS FOR THE PORTION OF THE PROPERTY.

BUILDER TO PROVIDE G3XDESIGN FINAL ENGINEERED TRUSS DRAWINGS SEAL BY TRUSS ENGINEER PRIOR TO CONSTRUCTION, FOUNDATION AND VERTICAL STRUCTURAL SUPPORTS MAY CHANGE AS A RESULT OF FINAL TRUSS ENGINEERING PROVIDED. REVISIONS SHALL BE COMMUNICATED IN WRITING

GXDESIGN, LLC RESERVES THE RIGHT TO MAKE SUBSTITUTIONS TO ANY CONNECTOR SPECIFIED AFTER SUBMITTAL OF FINAL SIGNED AND SEALED TRUSS DRAWINGS HAVE BEEN PROVIDED FOR REVIEW

SHOWN ON PERMIT PLANS. BUILDER IS RESPONSIBLE FOR ANY REVISIONS PRIOR TO FINAL TRUSS APPROVAL

FINAL APPROVED TRUSS DRAWINGS MAY REQUIRE ADDITIONAL FOUNDATION SUPPORTS, COLUMNS, AND BEAMS NOT

BUILDER SHALL COORDINATE WITH G3XDESIGN, LLC PRIOR TO CONSTRUCTION

A permit issued shall be construed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor sha issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

DO NOT SCALE DIMENSIONS FOR CONSTRUCTION

PURPOSES. IN THE EVENT THAT A DIMENSION IS

UNCLEAR OR MISSING CONTACT THE ENGINEER IN

ANY UNAUTHORIZED USE, REPRODUCTION OR DUPLICATION OF THESE DRAWINGS WITHOUT THE THE EXPRESS WRITTEN CONSENT OF THE BUILDER, DESIGNER AND ENGINEER IS STRICTLY PROHIBITED

LEVE GORDIN LICENSA STATE OF MORIDA. IANOVOL

OCTOBER 22, 2024

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ENGINEERING DESIGN G3X DESIGN, LLC 2237 CLIMBING IVY DR TAMPA, FL 33618 (813) 928-8339 FL C.A. #31107



12133 STATE ST HILLSBOROUGH COUNTY

BUILDER

COVENANT DAVID WILLIAM

CBC1256038

727-243-2726

DESIGNER

Curtis Morgan Morgancastle Studio, Inc.

Residential Design Services

9324 Wildwood Ave. Hudson, FL 34669 Phone: (727)247-8148

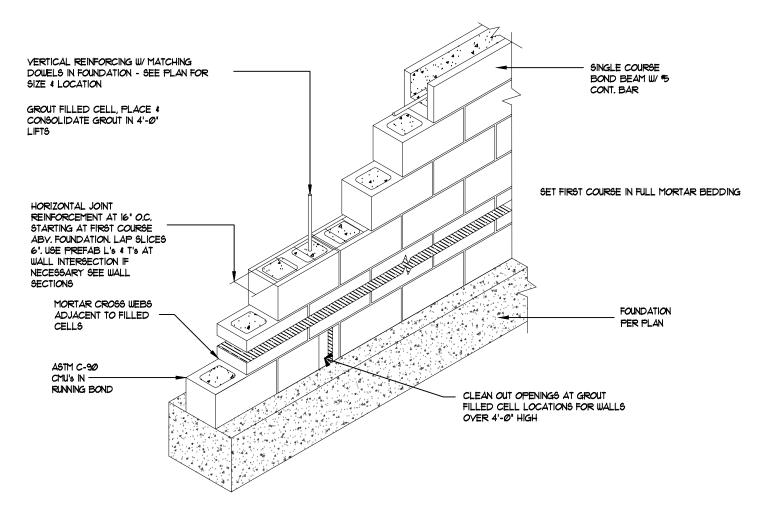
morgancastlestudio@gmail.com

REVISIONS

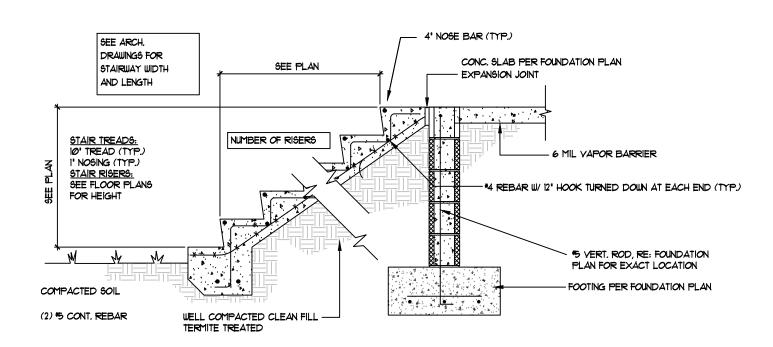
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DATE

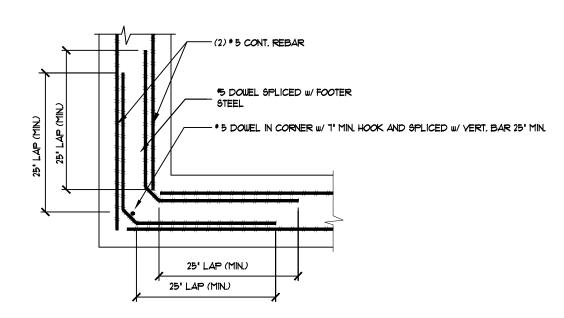
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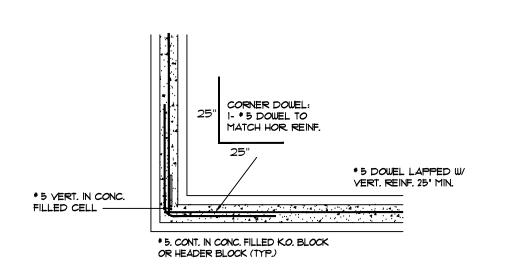
TYPICAL CMU REINFORCEMENT DETAIL



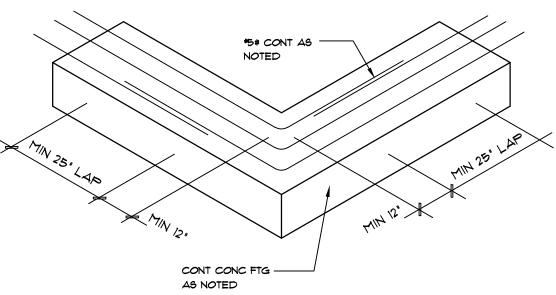
TYPICAL CONCRETE STEPS ON GRADE



FOOTER CORNER REINFORCEMENT DETAIL

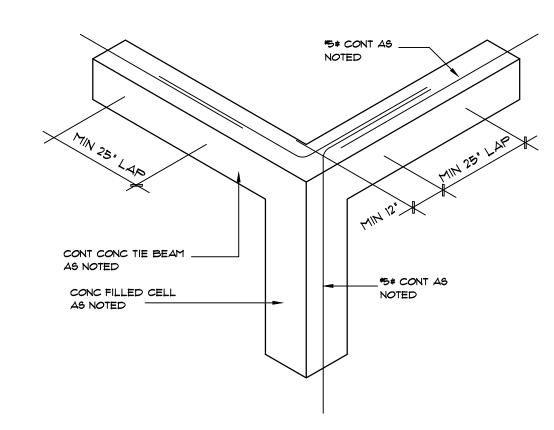


STEMWALL CORNER REINFORCEMENT DETAIL

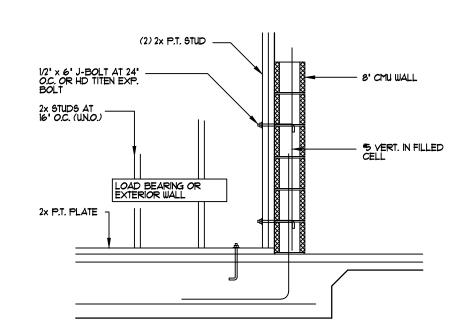


NOTE: DO NOT SPLICE MORE THAN (1) REBAR @ SAME PLACE. STAGGER SPLICES THROUGHOUT FOOTING

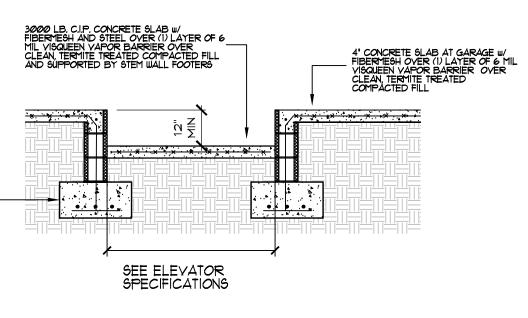
DETAIL (CONTINUITY OF FOOTING STEEL)



DETAIL (CONTINUITY OF BEAM STEEL)

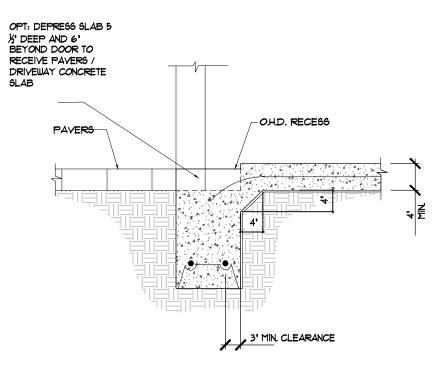


FRAME WALL TO MASONRY WALL DETAIL

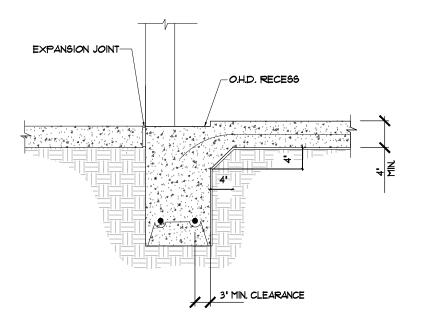


ELEVATOR PIT DETAIL

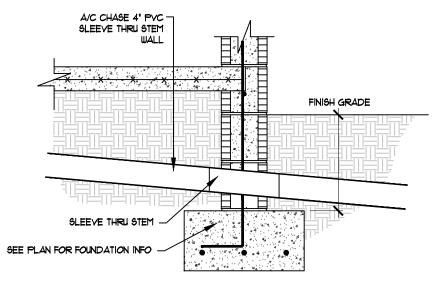
HOLD BOTTOM OF ALL FOOTERS 12' (MIN.) BELOW FIN. GRADE -SEE FOUNDATION PLAN



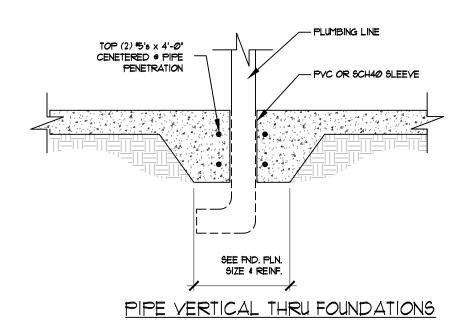
GARAGE DOOR SLAB RECESS

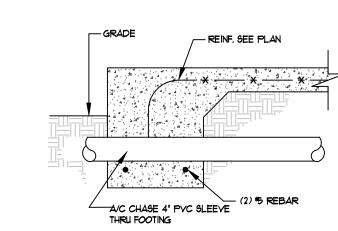


GARAGE DOOR SLAB RECESS

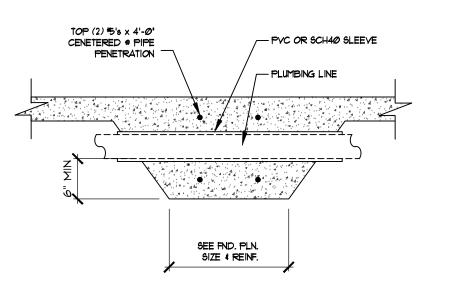


STEM FOUNDATION

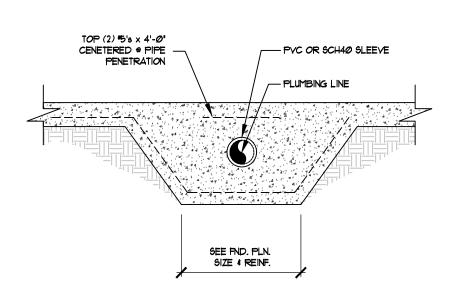


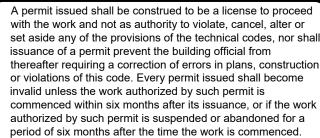


MONO FOUNDATION



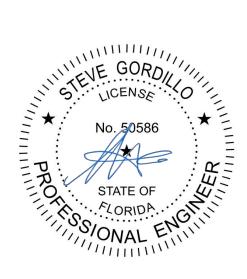
PIPE PERPENDICULAR TO FND.





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BUILDER

COVENANT HOMES DAVID WILLIAMS CBC1256038 727-243-2726

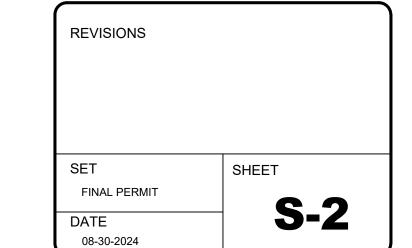
DESIGNER

Curtis Morgan

Morgancastle Studio, Inc. Residential Design Services

> 9324 Wildwood Ave. Hudson, FL 34669 Phone: (727)247-8148

morgancastlestudio@gmail.com



STRUCTURAL WIND DESIGN CRITERIA

 20
 33.6
 36.5

 50
 31.5
 34.5

 100
 30.0
 32.9

 10
 35.2
 47.1

 20
 33.6
 43.9

 50
 31.5
 39.7

 100
 30.0
 36.5

FLORIDA BUILDING CODE 2023 AND ASCE 7-22

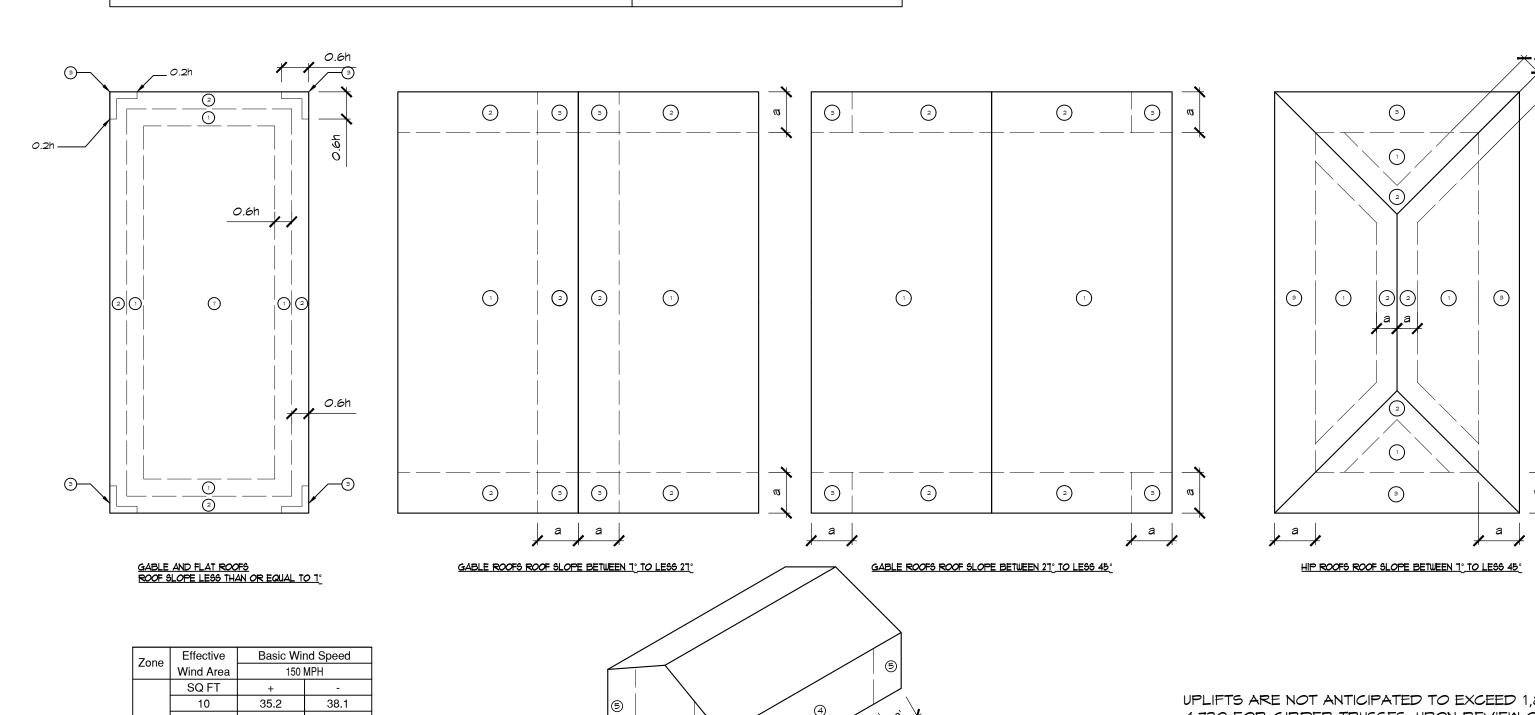
AS DEFINED IN ASCET-22 THIS STRUCTURE MEETS THE REQUIREMENTS OF AN ENCLOSED STRUCTURE IN WIND DEBRIS REGION AND HAS BEEN DESIGNED WITH AN INTERNAL PRESSURE COEFFICIENT OF +0.18 AND -0.18.

COMPONENT AND CLADDING DESIGN PRESSURE SHOWN ABOVE ARE YUIL MUST BE CONVERTED TO ASD FOR PRODUCT APPROVAL PURPOSES

BASIC WIND SPEED	150 MPH
RISK FACTOR	11
EXPOSURE CATEGORY	С
WIND DIRECTIONALITY FACTOR	Ø.85
TOPOGRAPHIC FACTOR	1.00
GROUND ELEVATION FACTOR	1.00
VELOCITY PRESSURE EXPOSURE COEFFICIENT	Ø.575
INTERNAL PRESSURE COEFFICIENT	ENCLOSED +/- Ø.18
STRUCTURE HEIGHT	35'
BUILDING HEIGHT ADJUSTMENT FACTOR	1.05

ALL WINDOWS AND DOORS ABOVE DFE MUST BE IMPACT RESISTANT AND MEET A MINIMUM DESIGN PRESSURE OF+35.7/-47.0 PSF (ASD VALUE) EXPOSURE C @ 150 MPH FOR WALL ZONE 4 \$ 5

GARAGE DOORS SHALL MEET A MINIMUM DESIGN PRESSURE OF +33.5/-35.4 PSF (ASD)



WALL PRESSURE ZONES

50 18.0 47.9

64.4

20 22.6

ŧ	FLAT RO	OF TO	7°		GABL	E 1° TO	2ذ		GABLE	20° TC	27°		GAE	BLE 27°	TO 45°	
	DESIGN WIN	D PRESSUR	RE (PSF)		DESIGN WIN	D PRESSUR	RE (PSF)		DESIGN WIN	ID PRESSUR	E (PSF)		DESIGN WIN	D PRESSUR	E (PSF)	
Zone	Effective	Basic Wi	nd Speed	Zone	Effective	Basic Wi	nd Speed	Zone	Effective	Basic Wi	nd Speed	Zone	Effective	Basic Wir	nd Speed	
Zone	Wind Area	150	MPH	Zone	Wind Area	150	MPH	Zone	Wind Area	150	MPH	Zone	Wind Area	150	MPH	
	SQ FT	+	-		SQ FT	+	-		SQ FT	+	-		SQ FT	+	-	
	10	14.4	22.2		10	14.4	65.1		10	14.4	50.2		10	32.2	59.2	
1'	20	13.5	32.2] 1	20	13.5	56.0	1	20	13.5	45.2	1	20	29.4	50.2	
	50	12.2	32.2		50	12.2	43.9		50	12.2	38.9		50	25.8	38.3	
	100	11.3	32.2		100	11.3	34.8		100	11.3	34.1		100	23.1	29.3	
	10	14.4	56.1		10	14.4	86.0		10	14.4	80.0		10	32.2	65.1	
	20	13.5	52.3	2	20	13.5	74.2	2	20	13.5	68.3	2	20	29.4	58.1	
1	50	12.2	47.6		50	12.2	58.7		50	12.2	52.9		50	25.8	49.0	
	100	11.3	43.8		100	11.3	47.0		100	11.3	41.2		100	23.1	42.1	
	10	14.4	74.0		10	14.4	112.8		10	14.4	94.8		10	32.2	80.0	
2	20	13.5	69.3		20	13.5	96.6		20	13.5	80.5		20	29.4	69.6	
2	50	12.2	62.9	3	50	12.2	75.3	3	50	12.2	61.5	3	50	25.8	56.0	
	100	11.3	58.1		100	11.3	59.2		100	11.3	47.1		100	23.1	45.5	
	10	14.4	100.9													
	20	13.5	91.4		HIP ROOF 7° TO 20°			HIP ROOF 20° TO 27°			HIP ROOF 27° TO 45°					
3	50	12.2	78.7	┨ '	HII ROOF 1 10 20											
	100	11.3	69.3		DE010111111											
					DESIGN WIN		, ,		DESIGN WIN		, ,		DESIGN WIN		, ,	
				Zone	Effective Basic Wind Speed		Zone	Zone Effective	Basic Wind Speed		/one l	Effective	Basic Wind Speed			
					Wind Area 150 MPH Wind Area 150 MPH		····		Wind Area 150 MF		MPH					
OTES			_		SQ FT	+	-		SQ FT	+	-		SQ FT	+	-	
DESIGN PRESSURES ABOVE REPRESENT THE NET PRESSURE					10	26.2	59.2		10	26.2	47.1		10	26.2	50.2	
			1	20	22.6	52.2	_ 1	20	22.6	41.8	1	20	22.6	42.9		
(SUM OF EXTERNAL AND INTERNAL				50	18.0	43.1		50	18.0	34.7		50	18.0	33.5		
PRESSURES) APPLIED NORMAL TO					100	14.4	36.1		100	14.4	29.3		100	14.4	26.2	
ALL SURFACES. COMPONENT					10	26.2	77.0	ļ !	10	26.2	65.1		10	26.2	59.2	
MANUFACTURER SHALL USE THE				2	20	22.6	69.5	2	20	22.6	56.1	2	20	22.6	50.2	
HIGHER OF THE TWO NUMBERS FOR					50	18.0	59.3		50	18.0	44.2		50	18.0	38.3	
					100	14.4	51.8		100	14.4	35.2		100	14.4	29.3	
APPLICABLE SQUARE FOOTAGE.					10	26.2	82.9		10	26.2	65.1		10	26.2	77.0	

20 22.6

 50
 18.0
 44.2

 100
 14.4
 35.2

56.1

44.2

 50
 18.0
 68.0

 100
 14.4
 55.4

74.7

20 22.6

UPLIFTS ARE NOT ANTICIPATED TO EXCEED 1,810 FOR TRUSSES AND 4,730 FOR GIRDER TRUSSES, UPON REVIEW OF FINAL TRUSS DRAWINGS PROVIDED BY THE TRUSS COMPANY, IF ANY VALUES EXCEED THESE STATED VALUES, PLEASE NOTIFY ENGINEER IN WRITING PRIOR TO CONSTRUCTION

UPLIFT STRAPS FOR COMMON TRUSSES SHALL BE HETA20 UPLIFT VALUE 1,810

UPLIFT STRAPS FOR GIRDER TRUSSES SHALL BE 2 PLY GIRDER TRUSS (2) HETA20 STRAPS = 3,620 OR MGT IF UPLIFT EXCEEDS 3,620

3 PLY GIRDER TRUSS MGT = 4,365 OR HGT-3 IF UPLIFT EXCEEDS 4,365

IF UPLIFT VALUES EXCEEDS THESE VALUES PLEASE NOTIFY ENGINEER IN WRITING PRIOR TO CONSTRUCTION

CONNECTOR NOTES: UNLESS NOTED OTHERWISE

ALL MASONRY TO TRUSS CONNECTIONS SHALL BE HETA20 EMBEDDED STRAP UPLIFT VALUE -1,810

ALL MASONRY TO GIRDER TRUSSES CONNECTION 2PLY & 3 PLY SHALL BE (2) HETA20 EMBEDDED STRAP -1,810

ALL FRAME WALL TO TRUSS CONNECTIONS SHALL BE HTS20 UPLIFT VALUE -1,310

ALL FRAME WALL TO GIRDER TRUSS CONNECTION 2PLY & 3 PLY SHALL BE (2) HTS20 UP TO -2,610 UPLIFT, IF UPLIFT EXCEEDS THIS VALUE ENGINEER WILL PROVIDE CONNECTOR BASED ON FINAL ENGINEERED TRUSS PROFILES

CONTRACTOR REQUIRES CLARIFICATION OF ANY ITEM OR COMPONENT THEY SHALL PROVIDE FINAL ENGINEERED TRUSS DRAWINGS AND REQUEST CLARIFICATION IN WRITING FROM EOR

FOLLOW ALL MANUFACTURER INSTALLATION INSTRUCTIONS AND SPECIFICATIONS FOR ALL CONNECTIONS, NO EXCEPTIONS.

BUILDER RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS OF INSTALLING CONNECTORS

SHEATHING NAILING SCHEDULE

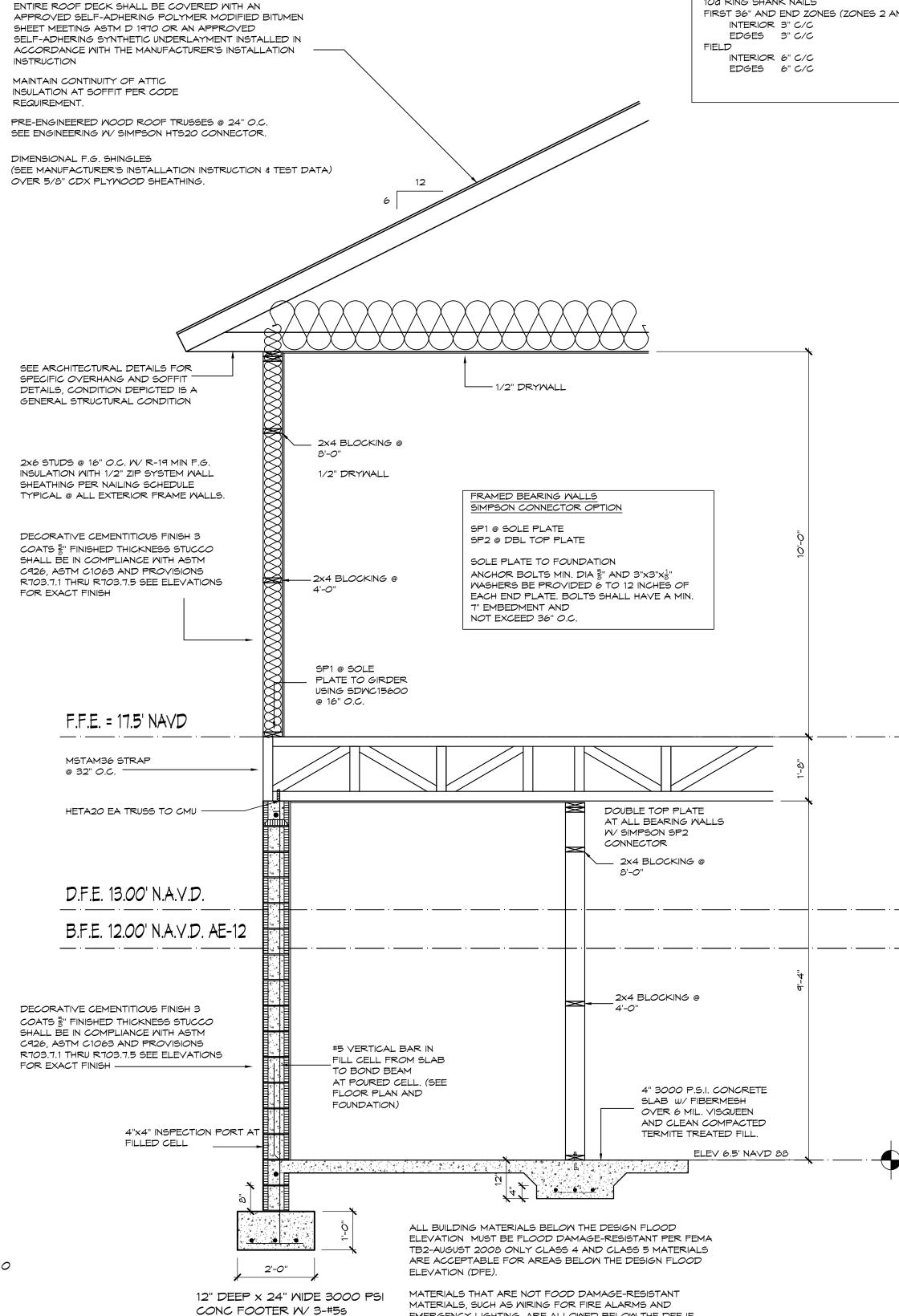
MALL SHEATHING 1/2" ZIP SYSTEM

10d RING SHANK NAILS FIRST 36" AND END ZONES (ZONE 5) INTERIOR 4" C/C EDGES 3" C/C

INTERIOR 6" C/C EDGES 6" C/C

ROOF SHEATHING 19/32" 10d RING SHANK NAILS

FIRST 36" AND END ZONES (ZONES 2 AND 3)



PEEL AND STICK REQUIREMENT (R905.2.7)

FRAMING NOTES: 1. ALL WOOD FRAMING EXPOSED TO THE EXTERIOR OR IN CONTACT WITH MASONRY OR CONCRETE IS TO BE PRESSURE

STORAGE AREAS.

TREATED (PT) 2. ALL EXTERIOR FASTENERS INCLUDING NAILS, HANGERS, BOLTS ETC. ARE TO BE STAINLESS STEEL (SS) TYPE 316. 3. ALL INTERIOR FASTENERS IN CONTACT

EMERGENCY LIGHTING, ARE ALLOWED BELOW THE DFE IF

SPECIFICALLY REQUIRED TO ADDRESS LIFE SAFETY AND ELECTRIC CODE REQUIREMENTS FOR BUILDING ACCESS AND

WITH PRESSURE TREATED LUMBER INCLUDING NAILS, HANGERS, BOLTS ETC.ARE TO BE HOT DIPPED GALVENIZED (HDG) G185.

ALL DIMENSIONS TO BE FIELD VERIFIED.

> DIMENSIONS FOR WINDOWS ARE "GENERIC" AND USED FOR DESIGN PURPOSES ONLY. VERIFY ALL MINDOM OPENINGS MITH MINDOM MANUFACTURER FOR EXACT ROUGH OPENING SIZES

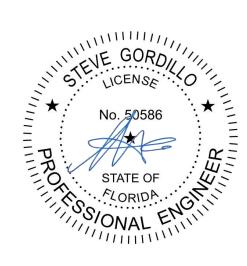
ALL PERIMETER WALLS ARE TO BE CONSIDERED SHEAR WALLS EXCEPT AT DOOR AND WINDOW OPENINGS AND WALL LENGTHS LESS THAN 2'-8". NAILING PATTERN AND SPACING AT SHEATHING FOR SHEAR APPLY TO ALL EXTERIOR WALLS

A permit issued shall be construed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, constructio or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

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ENGINEERING DESIGN

G3X DESIGN, LLC 2237 CLIMBING IVY DR TAMPA, FL 33618



_AI - DO CUSTOM RESIDENCE

LOT 5 12133 STATE ST HILLSBOROUGH COUNTY

BUILDER

COVENANT **HOMES**

DAVID WILLIAMS CBC1256038 727-243-2726

DESIGNER

Curtis Morgan

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morgancastlestudio@gmail.com

REVISIONS

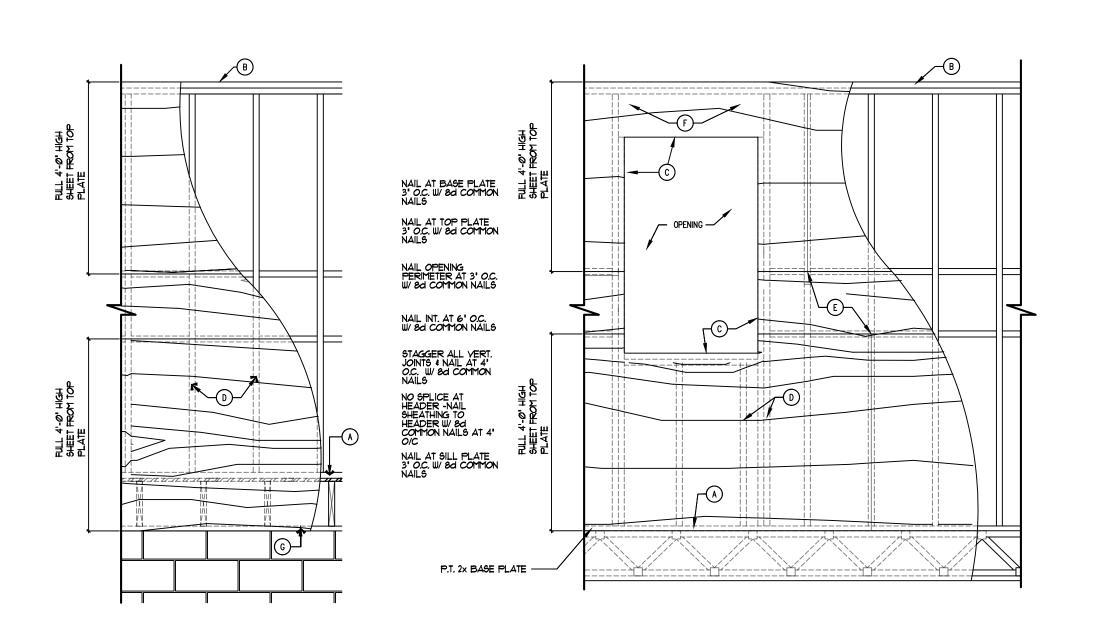
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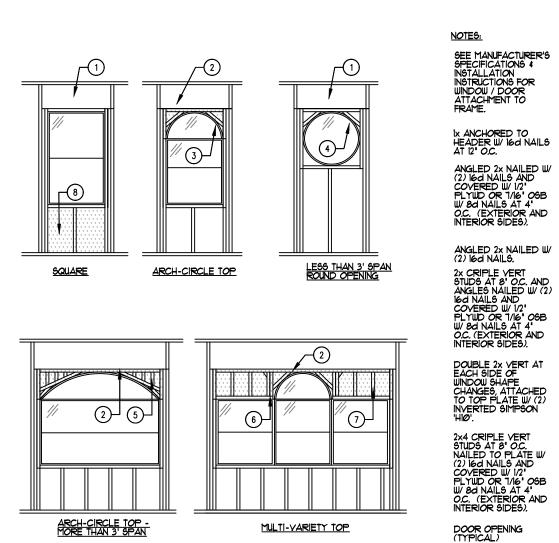
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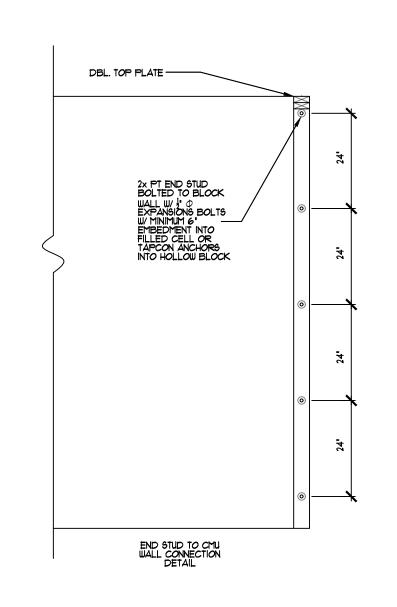
08-30-2024

SHEET FINAL PERMIT

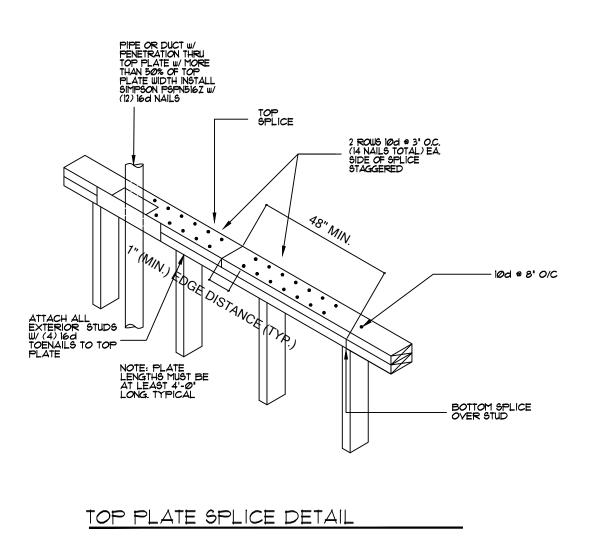
S-3





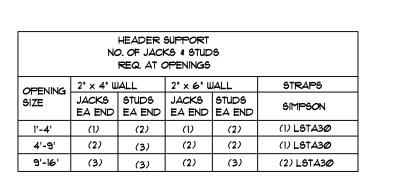


FRAME WALL TO CMU WALL DETAIL

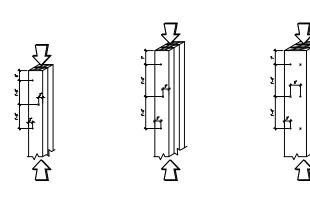


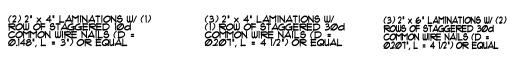
WALL SHEATHING INSTALLATION & NAILING SCHEDULE

2-SIMPSON LSTAIS + SIMPSON SP2 * (TYP.) DBL. HEADER W/ 1/2" FLITCH PLATE 2"x4" STUDS TYP. 16d NAILS AT 16' O.C. -TYP. - P.T. BOTTOM PLATE

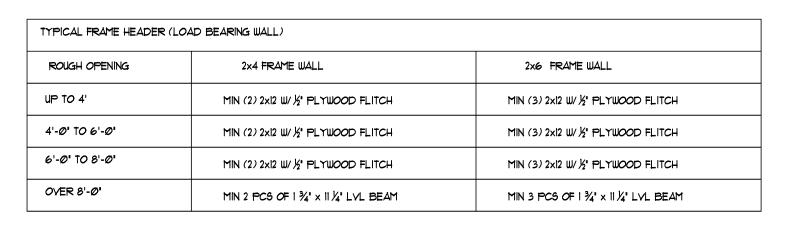


HEADER DETAIL (UPLIFT CONNECTIONS)





- 1. ADJACENT NAILS ARE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN
- 2. ALL NAILS PENETRATE AT LEAST 3/4 OF THE THICKNESS OF THE LAST LAMINATION 3. EACH 30d COMMON NAIL MAY BE REPLACED W (2) I6d COMMON NAILS. (ONE INTO EACH OUTSIDE FACE OF BULC., SAME NUMBER OF ROWS, SAME SPACING)
- 4. FOR 4-PLY, PROVIDE 1/4" DIA. x 5 1/2" LAG SCREWS OR EQUAL (SPACE AS SHOWN FOR 3-PLY) 5. FOR 5-PLY, PROVIDE 1/4" DIA. x 1" LAG SCREWS OR EQUAL (SPACE AS SHOWN FOR 3-PLY)
- 6. REFER TO NDS SECTION 15.3 FOR ADDITIONAL INFORMATION



WINDOW & DOOR MOUNTING

1/2'0 x 6' J-BOLTS AT 16' O.C. - OR 1/2' x 6' WEDGE TYPE ANCLIOR

STOP MOULDING BY DOOR INSTALLER (TO SUIT)

20 GA. MIN. GALY. STEEL END STILE

2"x BUILT-UP COLUMN, SOLID MEMBER OR P.L. 1.8E Fb=24000 PSI (AS PER PLANS)

HTT4 w/ (18) 10d NAILS (3610* SPF)

HTT5 w/ (26) lØd NAILS (467Ø* SPF)

DTT2Z w/ (8) 1/4" x 1 1/2" SDS (1835* SPF)

HDU2-9D925 w/ (6) 1/4' x 2 1/2' 9D9 (2215* 9PF)
 HDU4-9D925 w/ (10) 1/4' x 2 1/2' 9D9 (3285* 9PF)

HDU5-SDS2.5 w/ (14) 1/4" x 2 1/2" SDS (4065* SPF)

HDU8-5D52.5 w/ (2Ø) 1/4" x 2 1/2" 5D5 (5665* 5PF)

 HDUII-6D62.5 w/ (3Ø) I/4" x 2 I/2" 5D6 (6865* 5PF) • 5/8' DIA. x 12' EPOXIED A.T.R. MIN. 8' EMBEDMENT w/ WASHER & NUT

FOR DTT2Z USE 1/2" DIA. x 12" EPOXIED A.T.R. MIN. 8"

EMBEDMENT w/ WASHER & NUT
• FOR HDUS USE 7/8' DIA. x 12' EPOXIED A.T.R. MIN. 8'

EMBEDMENT W/ WASHER & NUT

FOR HDUII USE I' DIA. x 12' EPOXIED A.T.R. MIN. 8'
EMBEDMENT W/ WASHER & NUT

20 GA, MIN. GALV. STEEL -

NOTE: VERIFY ALL
INSTALLATION INFORMATION
W/ MANUFACTURER
SPECIFICATIONS,
INSTALLATION INFORMATION
& INSTRUCTIONS

FILLED CELL W/ 45 VERT.

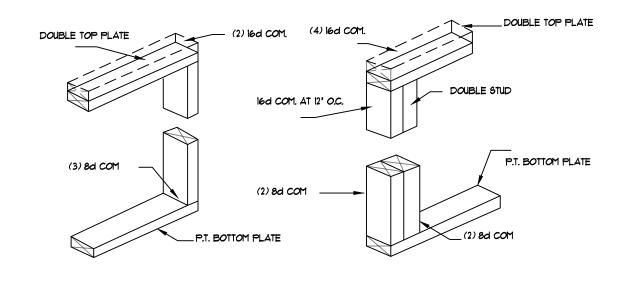
2x6 YELLOW PINE JAMB -

12 GA. GALV. STEEL TRACK BRACKETS FASTENED TO WOOD JAMB W/ (1) 5/16" x 5/8"... LAG SCREW PER TRACK BRACKET

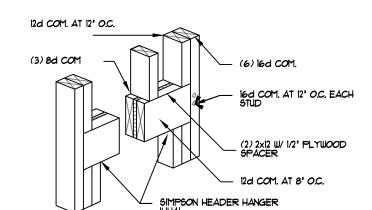
2' GALV. STEEL TRACK FASTENED TO 12 GA. GALV. STEEL TRACK BRACKETS TRACK ATTACHED TO EACH BRACKET W/ (1) 1/4' x 5/8' BOLT 4 NUT OR (2) 1/4'0 RIVETS

GARAGE DOOR MOUNTING DETAIL

HTT / HDU TENSION TIE

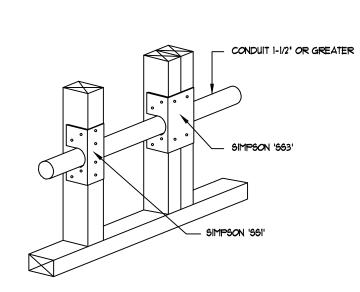


DOUBLE END STUD

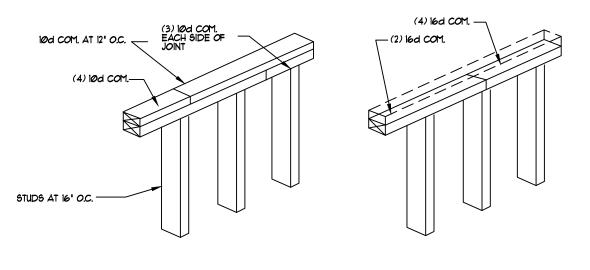


END STUD INT.

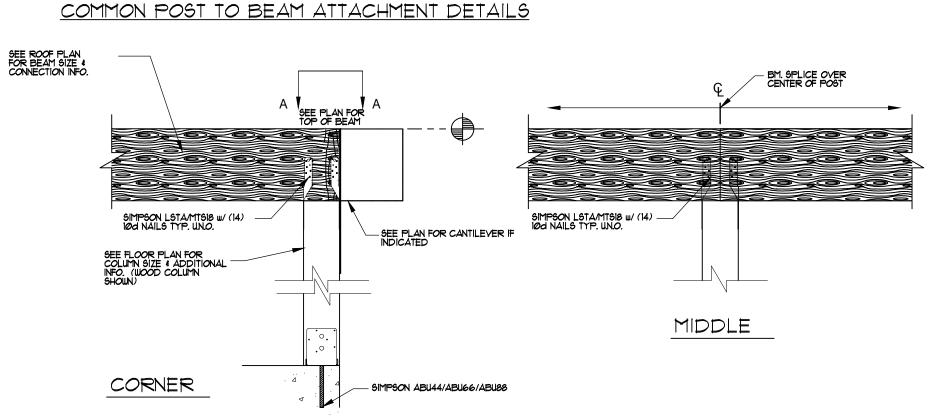
EXT./BEARING WALL HEADER

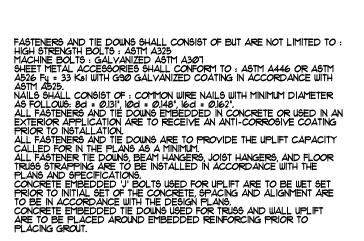


STUD SHOE

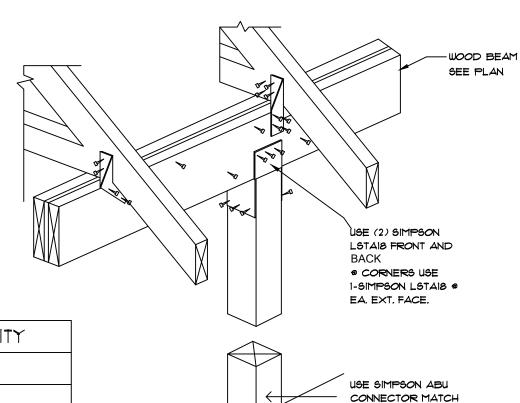


TOP PLATE FASTENERS



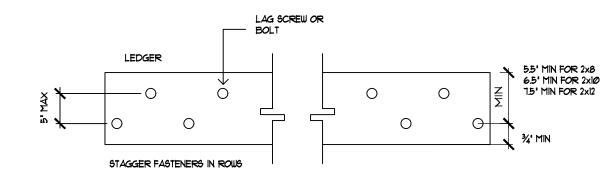


MODEL	COLUMN	ANCHOR	LOAD CAPACITY
ABU44	4x4 P06T	5/8 ° ∅ B <i>O</i> LT	2140 UP/6665 DOWN
ABU66	6x6 POST	5/8 ° ∅ B <i>O</i> LT	2300 UP/12,000 DOWN
ABU88	8x8 P0\$T	(2) 5/8 ' Ø BOLT	2320 UP/24,335 DOWN



COLUMN SIZE

TYPICAL LEDGER BOARD ATTACHMENT

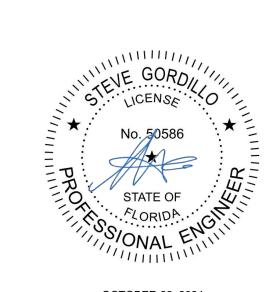


USE ½' ϕ LAG SCREWS w/ 2 1/4' PENETRATION INTO FRAMING MEMBER OR ½' ϕ BOLTS W/ 6' MIN EMBEDMENT SET IN EPOXY GROUT ϕ 16' O.C. UNLESS SPECIFIED OTHERWISE ON

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OCTOBER 22, 2024

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LOT 5 12133 STATE ST HILLSBOROUGH COUNTY

BUILDER

COVENANT HOMES

DAVID WILLIAMS CBC1256038 727-243-2726

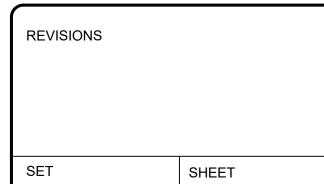
DESIGNER

Curtis Morgan

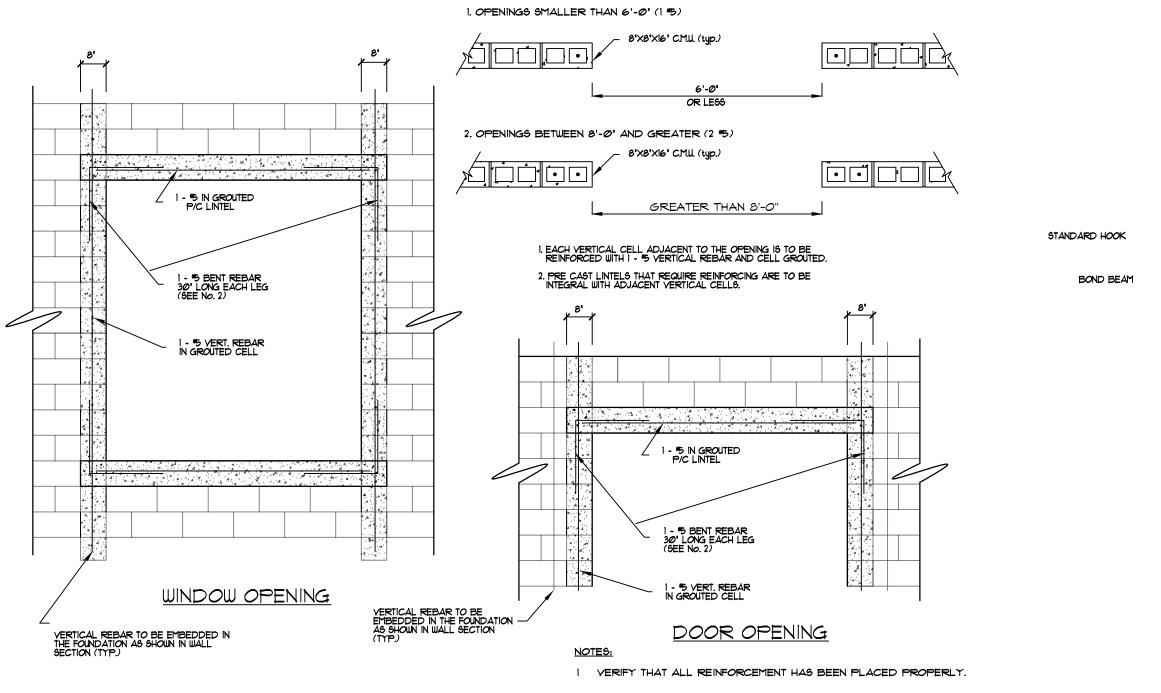
Morgancastle Studio, Inc. Residential Design Services

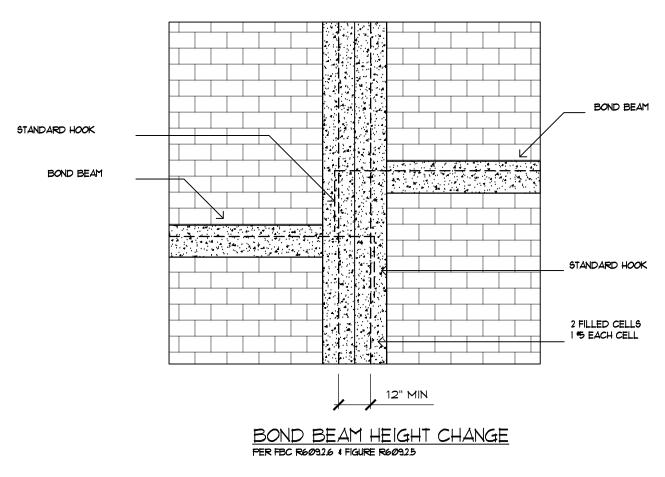
9324 Wildwood Ave. Hudson, FL 34669 Phone: (727)247-8148

morgancastlestudio@gmail.com

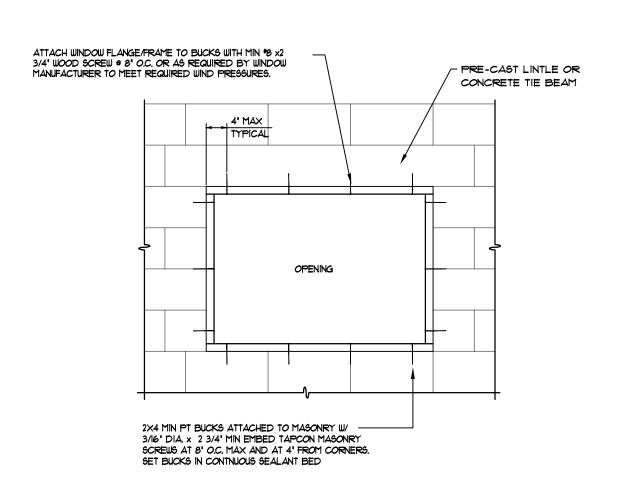


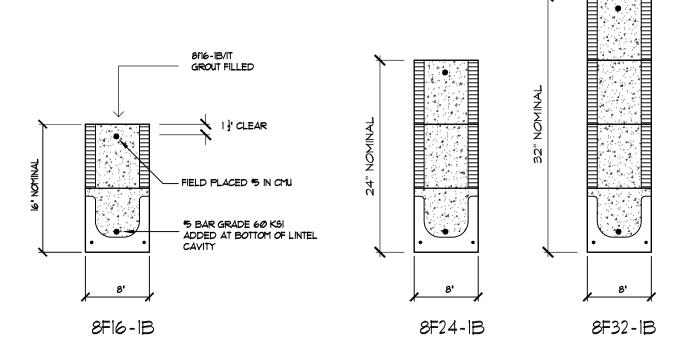
FINAL PERMIT **S-4** DATE 08-30-2024





- MASONRY OPENING DETAILS
- 2 PROVIDE MINIMUM BEARING 6"EACH SIDE, 8" RECOMMENDED
- 3 OPENINGS LESS THAN OR EQUAL TO 6'-0" IN WIDTH
- DO NOT REQUIRE ADDITIONAL STEEL REINFORCEMENT UNLESS NOTED ON FLOOR PLAN.





ENGINEERING **SPECIFICATIONS**

High strength precast concrete lintels designed to be unfilled or filled to form a composite reinforced beam using concrete masorry units.

- fic 8' precast lintels = 3500 psi
 fic 8' prestressed, 6' and 12' precast lintels = 6000 psi
 fic 4' precast lintels = 3000 psi
 Grout per ASTM C416 fig = 3000 psi w/ maximum
 3/8 inch aggregate and 8 to 11 inch slump.
- GENERAL NOTES 1. Provide full mortar head and bed joints
- 2. Shore filled lintels as required. 3. Installation of lintel must comply with architectura and/or structural drawings.

 4. U-Limtels are manufactured with 5-1/2 inch long notches at ends to accomodate vertical cell reinforcing and grouting.

 5. Reference the CAST-CRETE Load Deflection Graph
- Brochure for lintel deflection information. 6. Bottom field added rebar to be located at the bottom
- of lintel cavity.

 1. 1/32 inch diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
- SAFE LOAD TABLE NOTES All values based on minimum 4 inch nominal bearing.
 Exception: Safe loads for unfilled lintels must be reduced by 20 % if bearing length is less than 6-1/2 inches.

 2. NR = Not Rated.
- 3. Safe loads are superimposed allowable load.
 4. Safe loads based on Grade 40 or Grade 60 field rebar. 4. Sate loads based on Grade 40 of carade 90 field rebar.

 5. Additional lateral load capacity can be obtained by the designer by providing additional reinforced masomy above the precast lintel. See Reinforced CMU on Page 4.

 6. One 17 rebar may be substituted for two 15 rebars in 81 lintels only.

 7. The designer may evalute concentrated loads from the safe load tables by calculating the maximum resisting moment and shear at d-away.
- Concrete masonry units (CMU) per ASTM C30 with minimum net area compressive strenght = 1900 psi • Rebar per ASTM A615 Grade 60 Prestressing strand per ASTM A416 Grade 270 low relaxation
 1/32 inch wire per ASTM A510 Mortar per ASTM C270 Type M or 5
- 8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.

 9. Safe load ratings based on rational design analysis per ACI 318 and ACI 530 DFroduct Approvals: Miami Dade County, Florida Nos. 03-060505
 and 03-060504. Florida Certificate of Product Approval number FLI58.

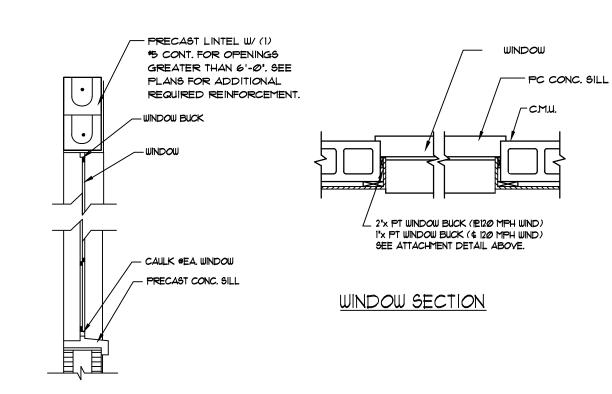
 II. The exterior surface of linitels installed in exterior concrete masorry walls shall have a coating of stucco applied in accordance with ASTM C926 or other approved coating.

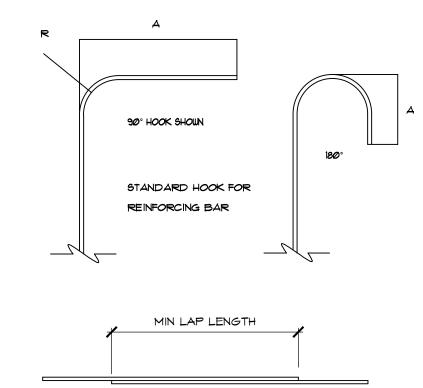
 II. Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation:
 - $\frac{\text{Applied vertical load}}{\text{Safe vertical load}} + \frac{\text{Applied horizontal load}}{\text{Safe horizontal load}} \leq 1.0$
- 8. For composite lintel heights not shown, use safe load from next lower height. 9. For lintel lengths not shown, use safe load from next longest length. 10.All safe loads in units of pounds per linear foot.
- 12. All safe loads have on simply supported span.

 12. The number in the parenthesis indicates the percent reduction for grade 40 field added rebar.

 Example: 1'-6' lintel Type 8F32-IB safe gravity load = 64T2 (I5) w/ 15% reduction = IE 64T2 (85) = 550 | plf

WINDOW ATTACHMENT TO CMU





LAP SPLICE

RECOMMENED END HOOKS AND LAP LENGTHS									
BAR	180? HOOK	90? HOOK	HOOK	LAP					
SIZE	Д	A	R	Lp					
* 3	5'	6'	1 1/4"	18"					
*4	6'	8"	1-1/2"	24"					
* 5	יד'	10"	2'	3@'					
*6	8'	12"	2-1/4"	36'					
* T	10"	14"	2-3/4"	48"					
*8	11"	16"	3"	55"					
*9	15"	19'	4-3/4"	62"					
*10	ידו ידו	22"	5-1/2"	69'					

STEEL LAP AND BEND

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ENGINEERING DESIGN

G3X DESIGN, LLC 2237 CLIMBING IVY DR TAMPA, FL 33618 (813) 928-8339



RESIDENCE LOT 5 12133 STATE ST

HILLSBOROUGH COUNTY

BUILDER

COVENANT HOMES

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DESIGNER

Curtis Morgan

Morgancastle Studio, Inc. Residential Design Services

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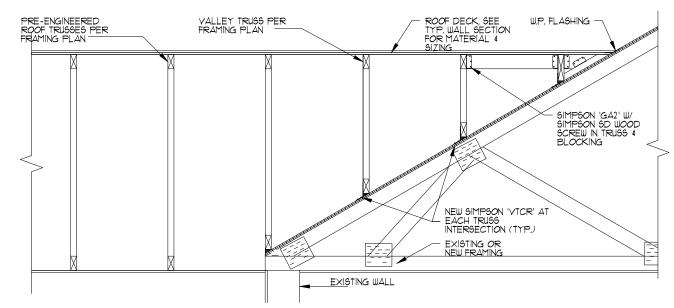
REVISIONS

DATE

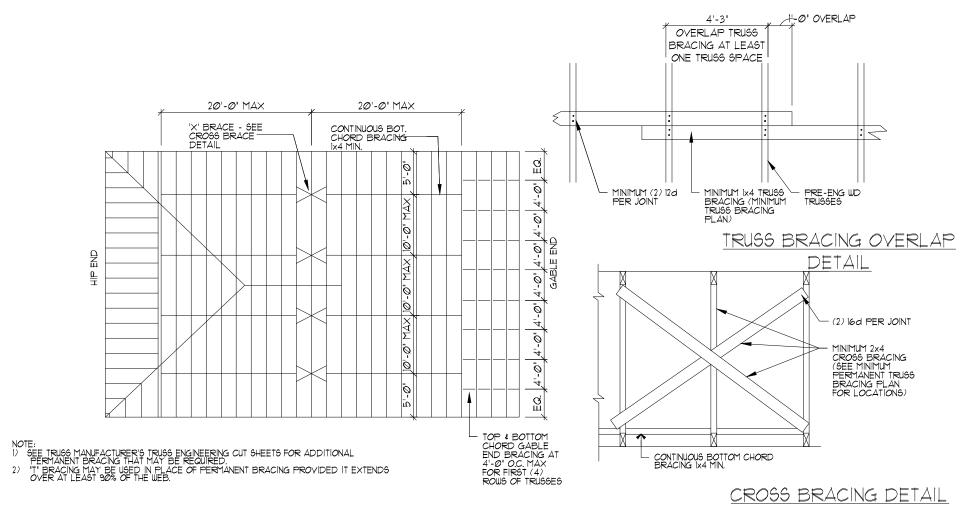
08-30-2024

SET SHEET FINAL PERMIT

S-5



PRE = ENGINEERED VALLEY TRUSSES OVER EXISTING/NEW ROOF DETAIL (W/ SIMPSON VTCR & NO 2x CLEAT/NAILER)



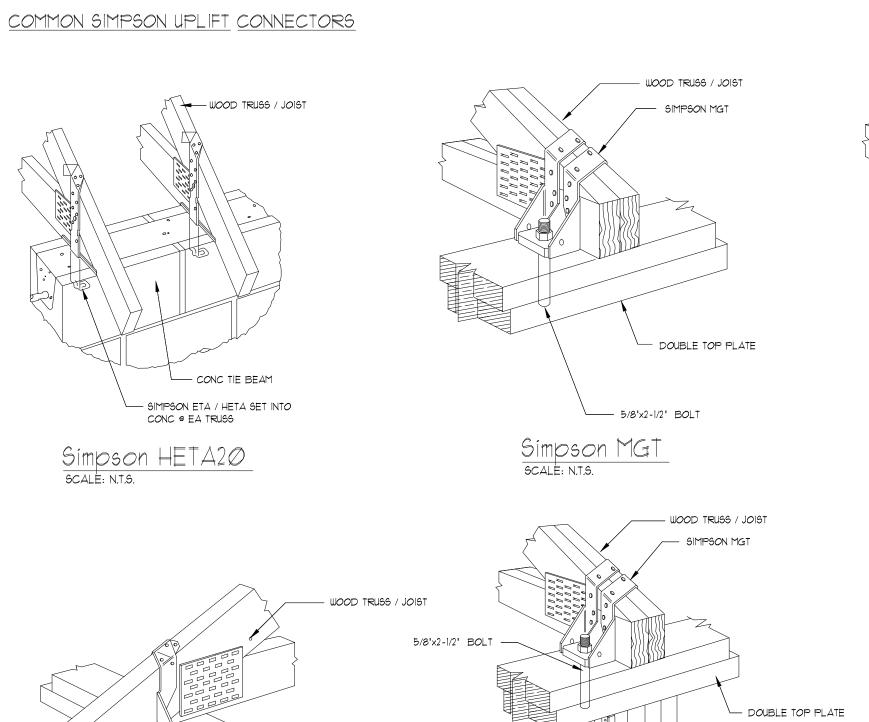
MINIMUM PERMANENT TRUSS

BRACING PLAN

SIMPSON HTS20 -

Simpson HTS20

SCALE: N.T.S.

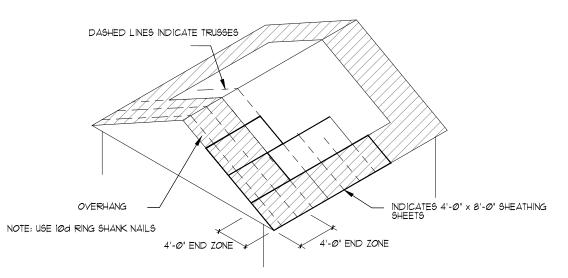


SIMPSON HDU4 EACH SIDE COLUMN ——

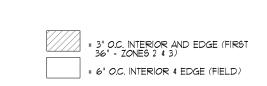
- DOUBLE TOP PLATE

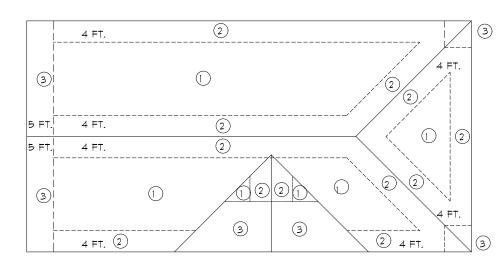
BUILT-UP COLUMNS AT GIRDER TRUSS

BUILT-UP COLUMN
(3) 2X6 FOR CONTINUOUS LOAD



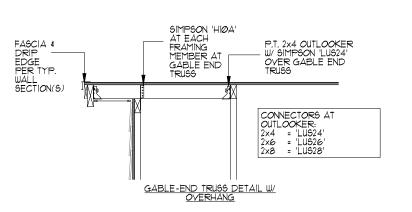
ROOF NAILING SCHEDULE: NAILING ZONES (SHINGLE AND TILE) ZONE 1: 10d RING SHANK NAILS @ 6" O.C. ON EDGE AND 6" O.C IN FIELD ZONE 2: 10d RING SHANK NAILS @ 6 O.C. ON EDGE AND 6" O.C IN FIELD





ZONE 3 10d RING SHANK NAILS @ 4 O.C. ON EDGE AND 4" O.C IN FIELD

ROOF NAILING ZONE DIAGRAM



- CONC TIE BEAM

MIN. 5" EMBEDMENT

CONNECTOR SCHEDULE

SIMPSON STRONG TIE

3965

3965

2Ø35

1175

1175

1500

187Ø

1870

FASTENERS

22-10d-1-5/8"

10-10d-1-1/2"

10-10d TRUSS

4-1/4x2-1/4 TITEN-CMU

8-1/4x2-1/4 TITEN-CMU

9-10d 5-1/4x2-1/4 TITEN-CMU

12-16d

CONNECTOR UPLIFT LOAD

MGT

MGT

HETA2Ø 1-PLY

HETA2Ø 2-PLY

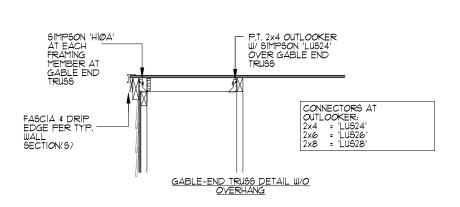
HTS2Ø

HTS2Ø

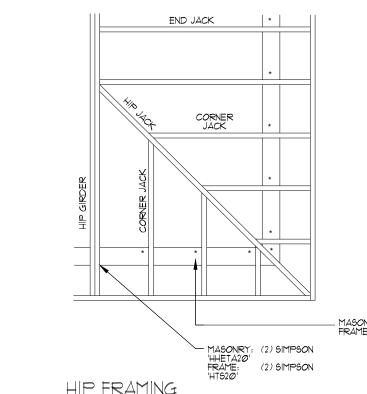
MSTAM24

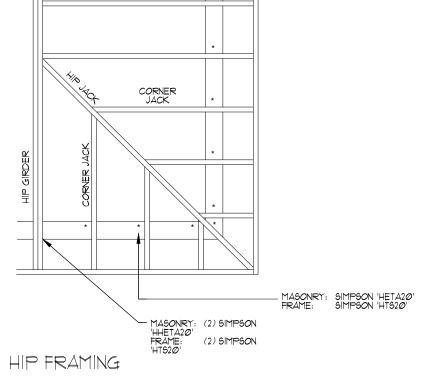
MSTAM24

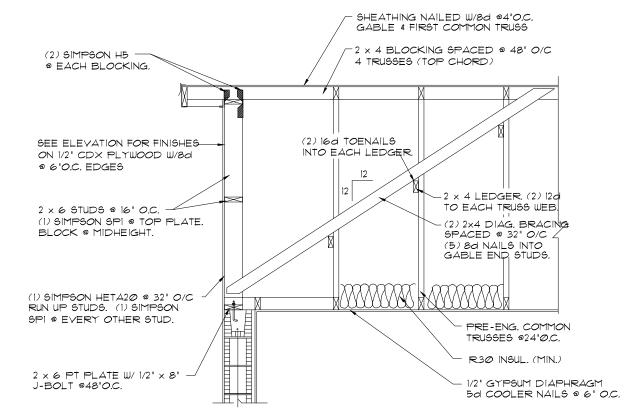
MSTAM36



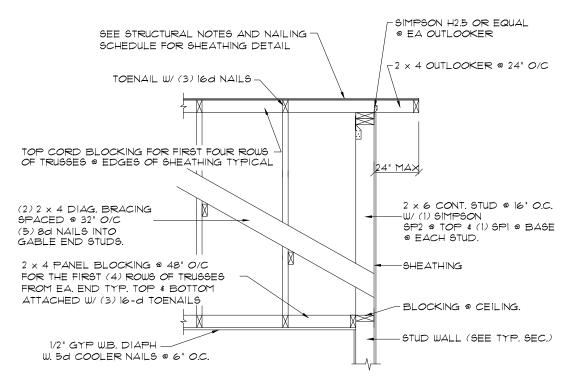
GABLE END ROOF DETAIL (SIMPSON CONNECTORS)





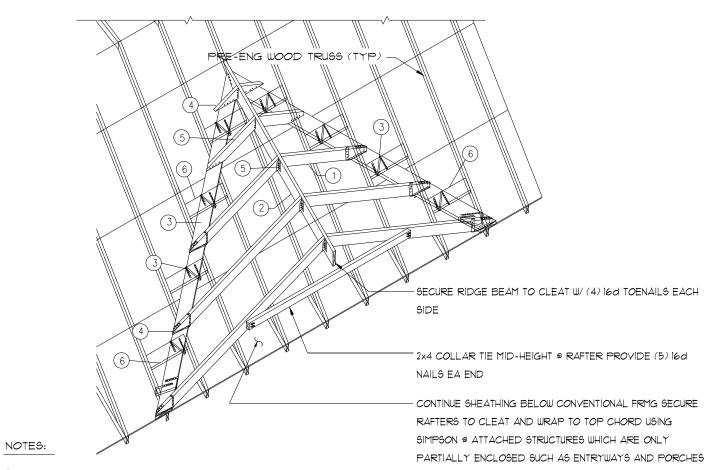


GABLE END BRACING MASONRY WALL



GABLE END BRACING FRAME WALL

CONVENTIONAL VALLEY FRAME



1 ALL RAFTERS SHALL BE #2 SOUTHERN YELLOW PINE. SECTION SIZE SHALL BE DETERMINED ACCORDING TO THE LENGTH OF SPAN AS FOLLOWS:

> UP TO 8'-0" 2x6 8'-0" TO 12'-0" 2×8 12'-0" TO 15'-0" 2×10 15'-Ø" TO 18'-Ø" 2×12

- (2) RIDGE BEAM SHALL BE #2 SOUTHERN YELLOW PINE. SECTION SIZE SHALL BE 2" (NOMINAL) LARGER THAN RAFTERS W/ A MAXIMUM RIDGE SIZE OF 2x12 FOR 2x12 RAFTERS.
- (3) CLEAT SHALL BE A #2 SOUTHERN YELLOW PINE 2x10. IT SHALL BE FASTENED AS SHOWN W/ SIMPSON MSTA24 TENSION STRAPS @ EACH TRUSS USING (14) 100 NAILS. INSTALL THE STRAP BY CUTTING A HOLE INTO THE SHEATHING @ EACH SIDE OF TRUSS AND THREADING THE U-SHAPED STRAP FROM BOTTOM OF TRUSS TOP CHORD TO TOP OF CLEAT.
- SECURE RAFTERS TO RIDGE BEAM USING SIMPSON LSSU210 (4) SLOPING NAILS INTO 2X12 RAFTERS. USE (8) 100 4 (6) 100 RESPECTIVELY FOR HTS20 W/ (20) IOd NAILS FOR 2x12 RAFTERS, (16) 10d NAILS FOR 2x10 RAFTERS, (14) 10d NAILS FOR 2x6 RAFTERS WITH SPANS OF 4'-0" OR GREATER 2x6 RAFTERS W/ SPANS LESS THAN 4'-0" WITH SPANS LESS THAN 4'-0" MAY BE TOE-NAILED TO RIDGE BEAM SHALL BE
- WHERE NEEDED, PROVIDE FLAT 2X6 BLOCKING BETWEEN TRUSSES AT HANGER W/ (10) 10d NAILS INTO RIDGE BEAM AND (7) $100d \times 1 \frac{1}{2}$ SECURE BLOCKING W/ (3) 16d TOENAILS AT EACH END INTO TOP CORD. 2x10 RAFTERS. USE LSSU28 W/ (10) 10d & (5) 10d x | 1/2" FOR 2x8 RAFTERS. USE LSU26 W/ (6) 10d & (5) |0d x | |1/2| FOR |2x6 RAFTERS WITH SPANS OF 4|-0|0R GREATER. 2x6 RAFTERS W/(8) 10d NAILS.

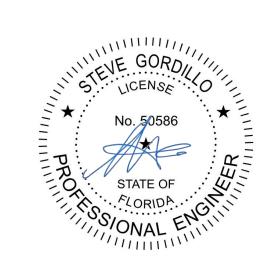
TOE-NAILED TO CLEAT W/ (8) 100 NAILS.

(6) TOP CORD FOR INSTALLATION SUPPORT OF MSTA24 STRAPS.

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Curtis Morgan Morgancastle Studio, Inc.

Residential Design Services

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morgancastlestudio@gmail.com

REVISIONS

DATE

08-30-2024

SET FINAL PERMIT

S-6