STRUCTURAL NOTES:

CAST IN PLACE CONCRETE

1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI, A SLUMP OF 3" FOR FOOTINGS/FOUNDATIONS AND 4" FOR SLABS
2. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 40.
3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WWF SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6".
4. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS.
5. HORIZONTAL FOOTING BARS SHALL HAVE 1'-0" HOOK LENGTH OR CORNER BARS WITH A 2'-1" LAP PROVIDED
6. MINIMUM LAP SPLICES ON ALL REINFORCING BAR SPLICES SHALL BE 40 BAR DIAMETERS TYP.
7. CONCRETE COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1 1/2" TO FORM.

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE NEW DEFORMED BARS FREE FROM RUST, SCALE & OIL & SHALL MEET ASTM A-615 REINFORCING FOR FOOTING SHALL BE SUPPORTED ON PRE-CAST CONCRETE PADS, TOP REINFORCING SHALL BE POSITIVELY SUPPORTED BY TEMPORARY STRINGERS. DOWELS FOR COLUMNS & FILLED CELLS SHALL BE SECURED IN PLACE BY USING ADDITIONAL CROSS-REINFORCING TIED TO FOOTING REINFORCING. SPLICES IN REINFORCING WHERE PERMITTED SHALL BE THE FOLLOWING MINIMUM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS:

FTGS, WALLS, COLUMNS, BEAMS, SLABS:	36 DIA. OR 2'-0" MIN.
FILLED CELL REINFORCING:	40 DIA. OR 2'-1" MIN.
TEMPERATURE REINFORCING:	20 DIA. OR 1'-0" MIN.
WELDED WIRE MESH:	8" LAP

MASONRY WALL CONST.

1. HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI (f'm = 1500 PSI)
2. MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270.
3. COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI SLUMP 8" TO 11".
4. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT.
5. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 192 BAR DIAMETERS. REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL TYPICAL UNLESS OTHERWISE NOTED.
6. REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
7. GROUT STOPS SHALL BE PROVIDED BELOW BOND BEAM. PLASTIC SCREEN, METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE FLOW GROUT INTO CELLS BELOW. THE USE OF FELT PAPER AS A STOP IS PROHIBITED.

WOOD CONSTRUCTION

1. WOOD CONSTRUCTION SHALL CONFORM TO THE NDS "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", 2018 EDITION.
2. ALL EXTERIOR WOOD STUD WALLS, BEARING WALLS, SHEAR WALLS AND MISC. STRUCTURAL WOOD FRAMING MEMBERS, (I.E. BLOCKING OR GABLE END BRACING) SHALL BE EITHER SOUTHERN PINE, OR S.P.F. NUMBER 2 GRADE OR BETTER SHALL BE USED REGARDLESS OF SPECIES.
3. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIA. SHALL HAVE STUD PROTECTION SHIELDS FOR ALL HOLES OVER 1" IN DIA. FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 STUD SHOES,TYP., U.N.O.
4. FASTENERS FOR PRESSURE PRESERVATIVE AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT-DIPPED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.

PREFABRICATED WOOD TRUSSES

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

SOIL BEARING VALUE:

ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 2000 PSF SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN. SOIL TO BE COMPACTED TO AT LEAST 95% OF MAX. DRY DENSITY AS DETERMINED BY ASTM - D1557

UPLIFT CONNECTORS

1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCATION OF THESE WALLS.

FIELD REPAIR NOTES

1. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED W/ 1/2" DIA. EPOXY ANCHORS WITH 6" EMBEDMENT. SIMPSON "SET" EPOXY ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS. SEE PLAN FOR EMBEDMENT DEPTH AT FLOOR STEPS.
2. FOR MISSED VERT. DOWELS DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDMENT EPOXY (SIMPSON "SET", EPOXY), MIXED PER MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR.
3. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING)
4. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED WITH (1) SIMPSON MTSM16 TWIST STRAP W/ (4) ¼" X 2⅛" TITENS TO MASONRY AND (7)-10d NAILS TO TRUSS FOR UPLIFTS LESS THAN 860 LBS (USE (2) MTSM16 FOR UPLIFTS LESS THAN 1720#). NO MORE THAN 10 STRAPS MAY BE SUBSTITUTED OR NO MORE THAN 3 IN A ROW. IF GIRDER TRUS CONNECTIONS ARE MISSED CONTACT ENGINEER OF RECORD FOR SUBSTITUTION.

TERMITE SPECIFICATIONS:

SECTION R318 PROTECTION AGAINST TERMITES

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 A PREVENTIVE TREATMENT TO NEW CONSTRUCTION (SEE SECTION 202, REGISTERED TERMITICIDE). UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

RADON:

WHERE PROJECT IS TO BE LOCATED IN KNOWN RADON GAS PREVALENT AREAS, APPENDIX "F" OF THE 2017 FLORIDA RESIDENTIAL BUILDING CODE IS TO BE IMPLEMENTED. CONCRETE STRENGTH IN THESE AREAS ARE TO BE A MINIMUM OF 3000 P.S.I.. THEREFORE, ANY AND ALL NOTES ON THESE PLANS THAT INDICATE 2500 PSI SHALL BE REPLACED WITH 3000 P.S.I. FOR THE CONCRETE STRENGTH.

STRUCTURAL DESIGN CRITERIA

CODES:	2020 FLORIDA BUILDING CODE RESIDENTIAL 2020 FLORIDA FIRE PREVENTION CODE 2020 FLORIDA ACCESSIBILITY CODE NEC NFPA 70 & FBCEB ACI 318-19 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 301-19 SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS ACI 530-19 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION 2018 WOOD FRAMED CONSTRUCTION MANUAL APA PLYWOOD DESIGN SPECIFICATION ASCE/SEI 7-16 AMERICAN SOCIETY OF CIVIL ENGINEERS	
LIVE LOADS:	ROOF RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED BALCONIES STAIRS LIGHT PARTITIONS (DEAD LOAD), U.N.O.	20 PSF (REDUCIBLE) 40 PSF 60 PSF 40 PSF 20 PSF 10 PSF ATTIC L.L.
CONCRETE STRENGTH @ 28 DAYS	ALL CONCRETE UNLESS OTHERWISE INDICATED PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS)	2500 PSI 3000 PSI
REINFORCING:	WELDED WIRE FABRIC SHALL CONFORM TO ALL REINFORCING BARS ALL STIRRUPS AND TIES POLYPROPYLENE FIBERS FOR SLABS ON GRADE	ASTM A1064/A1064M ASTM A615-40 40,000 PSI ASTM A615-40 40,000 PSI MINIMUM 1.5 LBS. OF FIBERS PER CUBIC YARD
CONCRETE MASONRY UNITS:	ASTM C90-01, STANDARD WEIGHT UNITS, fm=1500 PSI MORTAR TYPE "S" 1800 PSI CONCRETE GROUT 3000 PSI CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION	
STRUCTURAL STEEL:	ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O SHOP AND FIELD WELDS: E70XX ELECTRODES ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307	
WOOD FRAMING:	BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O. NO. 2 SOUTHERN YELLOW PINE (19% M.C.) ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR, or OSB FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24) WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB VERSA LAM BEAM Fb = 2900 PSI (2.0E) WOOD COLS. PARALLAM 2.0E U.N.O.	
WOOD ROOF TRUSSES:	DESIGN LOADS: TOP CHORD LIVE LOAD: TOP CHORD DEAD LOAD: BOTTOM CHORD DEAD LOAD: BOTTOM CHORD ATTIC LIVE LOAD:	SHINGLE ROOF: 20 PSF 10 PSF 10 PSF 40 PSF 10 PSF

SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS. DESIGN FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL DEAD LOAD.

INDEX OF DRAWINGS

SHT NO:	TITLE
1	COVER SHEET
2	FLOOR PLAN
	ELEVATIONS
3	FOUNDATION PLAN
	ELECTRICAL PLAN
	TRUSS LAYOUT
S-1	DETAILS

WIND LOADING CRITERIA

WIND SPEED (ULTIMATE)	130 MPH
WIND SPEED (ALLOWABLE)	101 MPH
EXPOSURE CATEGORY	B
BUILDING CATEGORY	II
BUILDING TYPE	V
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	+/- 0.18

NOTICE TO BUILDER

THIS DRAWING AND DESIGN IS VALID FOR 12 MONTHS AFTER THE DATE IT IS SIGNED AND SEALED OR WHILE CURRENT CODE IS VALID

IT IS THE INTENT OF THIS DESIGNER THAT THESE PLANS ARE ACCURATE AND ARE CLEAR ENOUGH FOR THE LICENSED PROFESS-ONAL TO CONSTRUCT THIS PROJECT. IN THE EVENT THAT SOMETHING IS UNCLEAR OR NEEDS CLARIFICATION..STOP..AND CALL THE DESIGNER LISTED IN THIS TITLE PAGE. IT IS THE RESPONSIBILITY OF THE LICENSED PROFESSIONAL THAT IS CONSTRUCTING THIS PROJECT TO FULLY REVIEW THESE DOCUMENTS BEFORE CONSTRUCTION BEGINS AND ANY AND ALL CORRECTIONS, IF NEEDED, TO BE MADE BEFORE ANY WORK IS DONE. *DO NOT SCALE DRAWINGS FOR CRITICAL DIMENSIONS INSTEAD CALL THE DESIGNER LISTED IN TITLE PAGE*

USP AND SIMPSON CONNECTOR CROSS REFERENCE CHART

REF. NO./NO. DE REF.	USP
10D5HDG	N10C-5
10DHDG	N10C-1
1212HLHDG	LH12-HDG
1212HTHDG	TH12-HDG
1212L	L12
1212T	T1212
126T	T12
16D5HDG	N16C-5
16DHDG	N16C-1
66L	L6
66T	T6
88L	L8
A21	JA1
A21Z	JA1-TZ
A23	A3
A23Z	A3-TZ
A24	TDL5
A311	TDL10
A33	BL3
A34	MP34
A34SS	MP34-SS
A34Z	MP34-TZ
A35	MPA1
A35SS	MPA1-SS
A35Z	MPA1-TZ
A44	BL4
A66	EBG44
A88	BS8
ABW44Z	PA44-TZ or PAU44-TZ
ABA44Z	PA44E-TZ
ABA46Z	PA46E-TZ
ABA66R	PA66E-TZ
ABA66Z	PA66E-TZ
ABU44	PAU44
ABU44Z	PAU44-TZ
ABU46Z	PAU46-TZ
ABU66	PAU66
ABU66Z	PAU66-TZ
AC4	PBS44
AC4Z	PBS44-TZ
AC6	PBS66
AC6Z	PBS66-TZ
ACE4	PBE544
ACE6	PBE566
BC4	C44
BC40	D44-TZ
BC40Z	D44-TZ
BC46	C46
BC4Z	C44-TZ
BC6	C66
BC6Z	D66-TZ
BCS2-2/4	BC400-TZ
BCS2-2/4Z	BC400-TZ
BP1/2-3HDG	HBP512-HDG
BPS/8	BPS83
BPS/8-2HDG	BPS82-HDGBC
BPS/8-3HDG	BPS83-HDG
BPS/8HDG	BPS83-HDG
BPS1/2-3	HBPS12
BPS/8-3	HBPS38
BPS5/8-3HDG	HBPS58-HDG
BT-R	WT22-BMC
CB44	KCB44
CB44HDG	KCB44-HDG
CB48	KCB48
CB66	KCB66
CB66HDG	KCB66-HDG
CBSQ44-SDS2	CBSQ44-TZ
CBSQ44-SDS2HDG	CBSQ44-HDG
CBSQ46-SDS2	CBSQ46-TZ
CBSQ46-SDS2HDG	CBSQ46-HDG
CBSQ66-SDS2	CBSQ66-TZ

REF. NO./NO. DE REF.	USP
CBSQ66-SDS2HDG	CBSQ66-HDG
CCQ44SDS2.5	KCCQ44
CCQ46SDS2.5	KCCQ46
CCQ66SDS2.5	KCCQ66
CPS4	CPB44
CPS5	CPB55
CPS6	CPB66
CS14-R	RS14-R
CS16	RS150
CS16-R	RS16-R
CS18-R	RS18-R
CS20	RS250
CS22-R	RS22-R
DJT14Z	SDJT14-TZ
DPPC4BK	PCP44
DPPC6BK	PCP66
DPT5Z	SDPT5-TZ
DPT7Z	SDPT7-TZ
DTC	TR2
DTT2Z-SDS2.5	DTB-TZ
EB-TY	DC50-TZ
ECC66	KECC66
ECCQ44SDS2.5	KECCQ44
ECCQ46SDS2.5	KECCQ46
ECCQ66SDS2.5	KECCQ66
EPB44	EPB4408
EPB44A	EBG441
EPB44HDG	EPB4408-HDG
EPB66	EPB6608
EPC44-16	EPCM4416
EPC46-16	EPCM4616
EPC66-16	EPCM6616
EPC66-16	EPCM6616
FB24Z	FC24-TZ
FB26	FB26-TZ
FPBB44	BD
FPBM44E	SMP
FPB544	SP530
GA1	A3
GA2	A3
H1	RT15
H10-2	RT16-2
H10-2Z	RT16-2TZ
H10A	RT16A
H10AZ	RT16A-TZ
H12	RT15-TZ
H2.5A	RT7
H2.5A	RT7A
H2.5A8S	RT7-8S
H2.5AZ	RT7A-TZ
H2.5AZ	RT7-TZ
H2A	RT10
H3	RT3A
H3Z	RT3A-TZ
H4	RT4
H5	RT5
H6	LFTA6
H8	RT8A
H8Z	RT8A-TZ
HCP2	HHCP2
HD12	TDX14
HD3B	TDX3
HD5B	TDX6
HD7B	TDX10
HDU2-SDS2.5	PHD2A
HDU4-SDS2.5	PHD4A
HDU5-SDS2.5	PHD5A
HDU8-SDS2.5	PHD8
HETA20	HTA20
HGA10KT	HGA10KT
HGAM10KTA	HGAM10KT
HH4	HH44

REF. NO./NO. DE REF.	USP
HH6	HH66
HHUS410	THD410
HL33	KHL33
HL33HDG	KHL33-HDG
HL35	KHL35
HL35HDG	KHL35-HDG
HL55HDG	KHL55-HDG
HRS12	HRS12
HRS416Z	HRS416-TZ
HRS6	HR26
HRS8	HRS8
HS24	RT6
HST2	KHST2
HST2HDG	KHST2-HDG
HST5	KHST5
HTP37Z	HTP37-TZ
HTS16	HTW16
HTS20	HTW20
HTT5	HTT45
HTU26	THD26
HU210	HD210
HU26	HD26
HU210-2Z	JUS210-2ZTZ
HU410	HD410
HU410	HD410
HU412	HD412
HU412	HD412
HUC410	HD410IF
HUC412	HD412IF
HUC44	HD44IF
HUC46	HD46IF
HUC66	HD66IF
HUS1.81/10	HUS179
HUS26	HUS26
HUS28	HUS28
ITS1.81/11.88	THO17118
ITS2.37/11.88	TFL23118
ITS2.56/11.88	TFL25118
IUS1.81/11.88	THF17112
IUS2.37/11.88	THF23118
IUS2.56/11.88	THF25112
IUS2.56/16	THF25160
JB210	HL210
JB28	HL28
L30	A3
L50	AC5
L50Z	AC5-TZ
L70	AC7
L70Z	AC7-TZ
L90	AC9
L90Z	AC9-TZ
LBP1/2	LBP1/2-TZ
LBPS18Z	LBPS18-TZ
LBPS12Z	LBPS12-TZ
LBPS58	LBPS58-TZ
LBPS58Z	LBPS58-TZ
LCB44	CBE44
LCE4	PBES44
LGT2	LUGT2
LPC4Z	PB44-6TZ
LPC6Z	PB66-6TZ
LS30	MP3
LS50	MP5
LS50Z	MP5-TZ
LS70	MP7
LS70Z	MP7-TZ
LS90	MP9
LSCZ	CSH-TZ
LSSU210	LSSH210
LSSU28	LSSH15-TZ
LSSU25	LSSH179
LSTA12	LSTA12
LSTA15	LSTA15

REF. NO./NO. DE REF.	USP
LSTA18	LSTA18
LSTA21	LSTA24
LSTA24	LSTA24
LSTA30	LSTA30
LSTA36	LSTA36
LSTA9	LSTA9
LSTHD8	LSTAD8
LSU26	LSSH15-TZ
LSU26Z	LSSH15-TZ
LTB2S	N16
LTP4	MP4F
LTP5	MP6F
LTS12	LTW12
LTS16	LTW16
LTT20B	LTS20B
LU26	JL26
LU28	JL28
LUC210Z	JL210F-TZ
LUC26Z	JL26IF-TZ
LUC28Z	JL28IF-TZ
LUS210	JUS210
LUS210-2	JUS210-2
LUS210-2Z	JUS210-2TZ
LUS210-3	JUS210-3
LUS210-3Z	JUS210-3TZ
LUS210SS	JUS210-SS
LUS210Z	JUS210-TZ
LUS24	JUS24
LUS24Z	JUS24-TZ
LUS26	JUS26
LUS26-2	JUS26-2
LUS26-2Z	JUS26-2TZ
LUS26SS	JUS26-SS
LUS26Z	JUS26-TZ
LUS28	JUS28
LUS28-2	JUS28-2
LUS28-2Z	JUS28-2TZ
LUS28-3	JUS28-3
LUS28-3Z	JUS28-3TZ
LUS28Z	JUS28-TZ
LUS410	JUS410
LUS44	JUS44
LUS44Z	JUS44-TZ
LUS46	JUS46
MAB15	ST1-TZ
MAB15Z	ST1-TZ
MAB23Z	ST2-TZ
MASA	FA3
MASAZ	FA3-TZ
META20	HTA20-18
MTI11.88	THO17118-2
ML24Z	ML24-TZ
ML26Z	ML26-TZ
MP14	TPP14
MP24	TPP24
MP36	TPP36
MST27	KST227
MST37	KST237
MST48	KST248
MST60	KST260
MSTA12	MSTA12
MSTA12Z	MSTA12-TZ
MSTA15Z	MSTA15-TZ
MSTA18	MSTA18
MSTA18Z	MSTA18-TZ
MSTA24	MSTA24
MSTA24Z	MSTA24-TZ
MSTA30	MSTA30
MSTA30Z	MSTA30-TZ
MSTA36	MSTA36
MSTA36Z	MSTA36-TZ
MSTAM24	MSTAM24

REF. NO./NO. DE REF.	USP
MSTAM36	MSTAM36
MTS12	MTW12
MTS12Z	MTW12-TZ
MTS16	MTW16
MTS16Z	MTW16-TZ
MTS18	MTW18
MTS20	MTW20
MTS20Z	MTW20-TZ
MTSM16	HTWM16
N10D5HDG	NA8D-5MC
N10DHDG	NA9D-1MC
N16	NA16D
N8D5HDG	NA11-5MC
N8DHDG	NA11-1MC
NCA2x10-16	MBG1016
NS1	KNS1
NS2	PL4
PA18	PA18
PA23	PA23
PA51	TA51
PA51Z	TA51-TZ
PA68Z	TA71-TZ
PB44	WE44
PB44Z	WE44-TZ
PB66Z	WE66-TZ
PBS44A	WAS44
PBS46	WAS46
PC44-16	PCM4416
PC46-16	PCM4616
PC66-16	PCM6616
PF24	JPF24
PF24Z	JPF24-TZ
PF26	JPF26
PF26Z	JPF26-TZ
PFD26	JDG26
PGT1.5Z-R	PRT15-TZ
PGT2A	PRT2H-TZ
PGT2E	PRT2-TZ
PGT2Z-R	PRT2H-TZ
PGTC22-R	PRTC2-TZ
PS218	PS218-HDG
PS418	PS418-HDG
PSCL1/2-R250	PC12
PSCL1/2-R50	PC12-BMC
PSCL15/32-R250	PC1532
PSCL15/32-R50	PC1532-BMC
PSCL19/32-R250	PC1932
PSCL19/32-R50	PC1932-BMC
PSCL5/8-R250	PC58
PSCL5/8-R50	PC58-BMC
PSCL7/16-R250	PC716
PSCL7/16-R50	PC716-BMC
PSPN516Z	ICPL516-TZ
PSPN58Z	ICPL58-TZ
RBC	RBC
RFB44X5HDG-R	THR125-HDGBMC
RFB5X12HDG-R	THR5812-HDGBMC
RFB5X16HDG-R	THR5816-HDGBMC
RFB5X5	THR585-HDG
RFB5X5HDG-R	THR585-HDG
RFB8X8	THR588-HDG
RPS18	KRPS18
RPS22	KRPS22
RPS222	KRPS22-TZ
RPS26Z	KRPS26-TZ
RR	RR
RSP4	RSPT4
RTA12	TTA12-TZ
RTA2Z	TTA2-TZ
RCWB12	WBC12
RTB2	TTB22-TZ
RTC24	TTC24-TZ

REF. NO./NO. DE REF.	USP
RTC42	TTC42-TZ
RTF2Z	TTF22-TZ
RTR	TTR-TZ
RTU2	TTU2-TZ
SBV	SB12
SD10112	LL915R50
SD10212	LL930R50
SDB5X1.25	LL915R50
SD9112	LL915R50
SD9212	LL930R50
SDS25112	WS15-BP
SDS25112-R25	WS15-GCR25
SP1	SPT22
SP1Z	SPT22-TZ
SP2	SPT24
SP4	SPT4
SP4Z	SPT4-TZ
SP6	SPT6
SPH4	SPTH4
SPH4Z	SPTH4-TZ
SPH6	SPTH6
SPH6Z	SPTH6-TZ
SS1.5	STS1
SSPZ	RSPT6-TZ
SSTB16	STB16-10
SSTB16HDG	STB16-HDG10
SSTB20	STB20-10
SSTB24HDG	STB24-HDG10
ST12	ST12
ST18	ST18
ST22	ST22
ST2215	KST2218
ST6224	KST224
ST6236	KST234
ST9	ST9
STC	TR1
STHD10	STAD10
STHD14	STAD14
SUL210	SKH210L
SUL210Z	SKH210L-TZ
SUL26	SKH26L
SUL26Z	SKH26L-TZ
SUR210	SKH210R
SUR210Z	SKH210R-TZ
SUR26	SKH26R
SUR26Z	SKH26R-TZ
TA10	SCA10-TZ
TA10Z	SCA10-TZ
TA9Z	SCA9-TZ
THA213	MSH213
THA218	MSH218
THA29	MSH29
THA422	MSH422
THD5060HMG-RP	7755SD
THDR26500MMG	7766SD
TP15	NP15
TP35	NP35
TP37	NP37
TP39	NP39
TP45	NP45
TP47	NP47
TP57	NP57
TSBR2-24	31-24
TSP	LFTA6
TWB10	WBT10
TWB12	WBT12
U210-2	SUH210-2
UFP10-SDS3	SRC
W1	WG
WB126	WB126
WB126C	RWB114
Z2	ZC2

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PLAN REVISIONS
CUSTOM DESIGNS

RANDOLPH WIGGINS, P.E.
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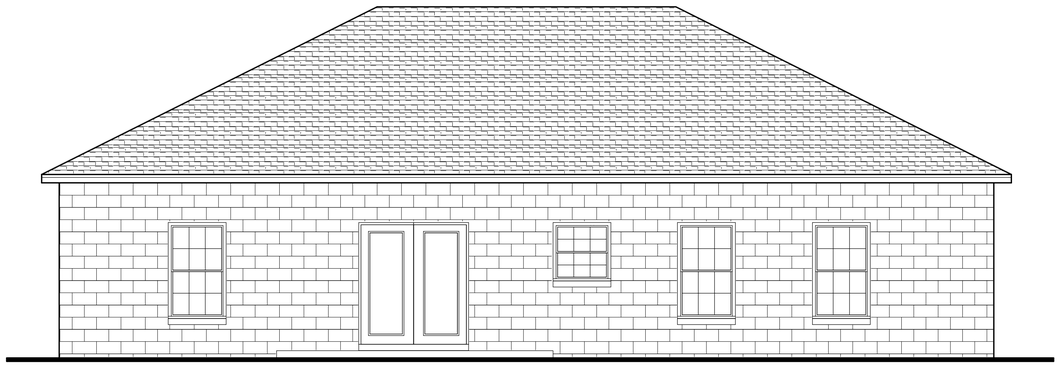
STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2020 FLORIDA RESIDENTIAL BUILDING CODE. SEAL APPLIES TO STRUCTURAL DESIGN ONLY FOR THE STRUCTURAL DESIGN
RANDOLPH WIGGINS, P.E. FL# 15721
DATE: JULY 20, 2021

STEVE SMITH CONSTRUCTION INCORPORATED
#CBC1256817
9651 NE 110th Ave Archer, FL 32618
(352) 486-4290

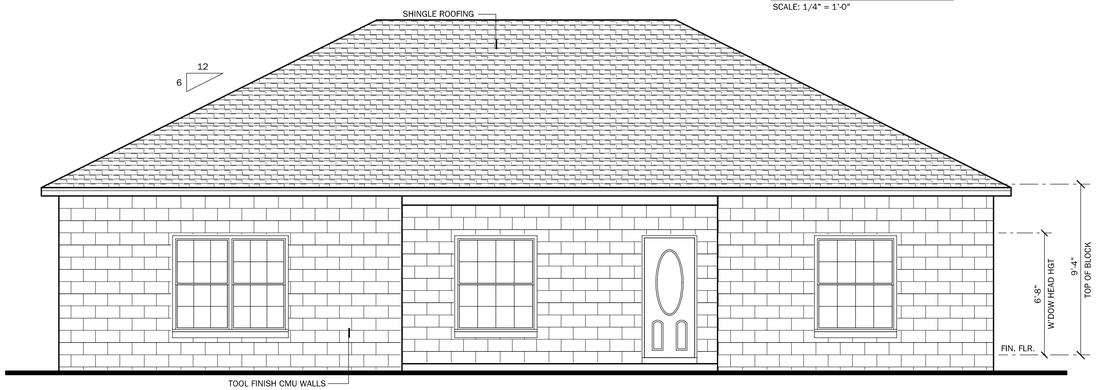
PROJECT:
Newton Residence
Lot 54 SW Rum Island Terrace
Ft. White, FL 32038
Columbia County

LAST PLOT DATE: January 06, 2021 11:41 AM

SHEET NO.
1
OF
4



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



FRONT ELEVATION
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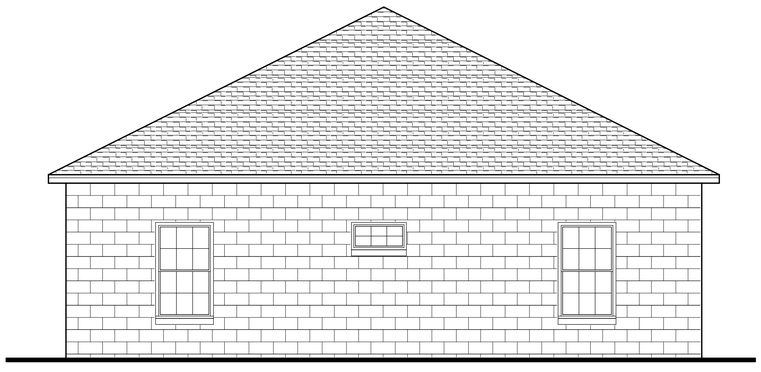

RIGHT ELEVATION
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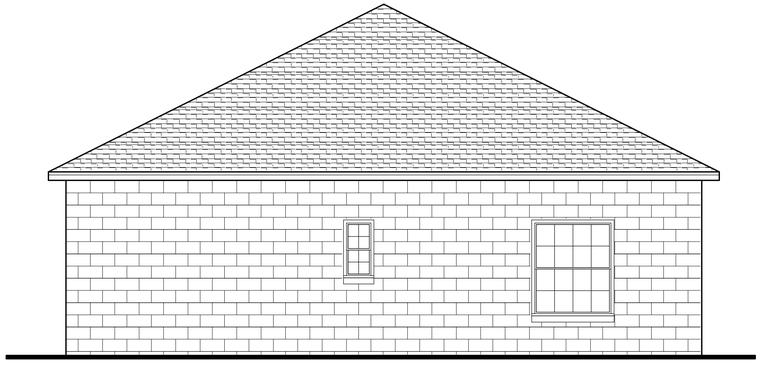


LEFT ELEVATION
SCALE: 1/4" = 1'-0"

NOTE:
1. ALL WINDOWS WITHIN 2'-0" OF DOORS AND IN SHOWER OR TUB AREAS WILL BE SAFETY TEMPERED GLASS.
2. ALL DOORS LEADING FROM UNCONDITIONED SPACE TO CONDITIONED SPACE SHALL BE SOLID CORE.
3. CEILING FOR EXTERIOR ENTRIES AND COVERED PORCHES TO HAVE 7/16" SPAN RATED OSB NAILED PER ZONE ON ROOF DIAPHRAGM NAILING SCHEDULE ON SHEET S-1 OR EXTERIOR GYPSUM SOFFIT BOARD INSTALLED PER GA-216

WALL LEGEND

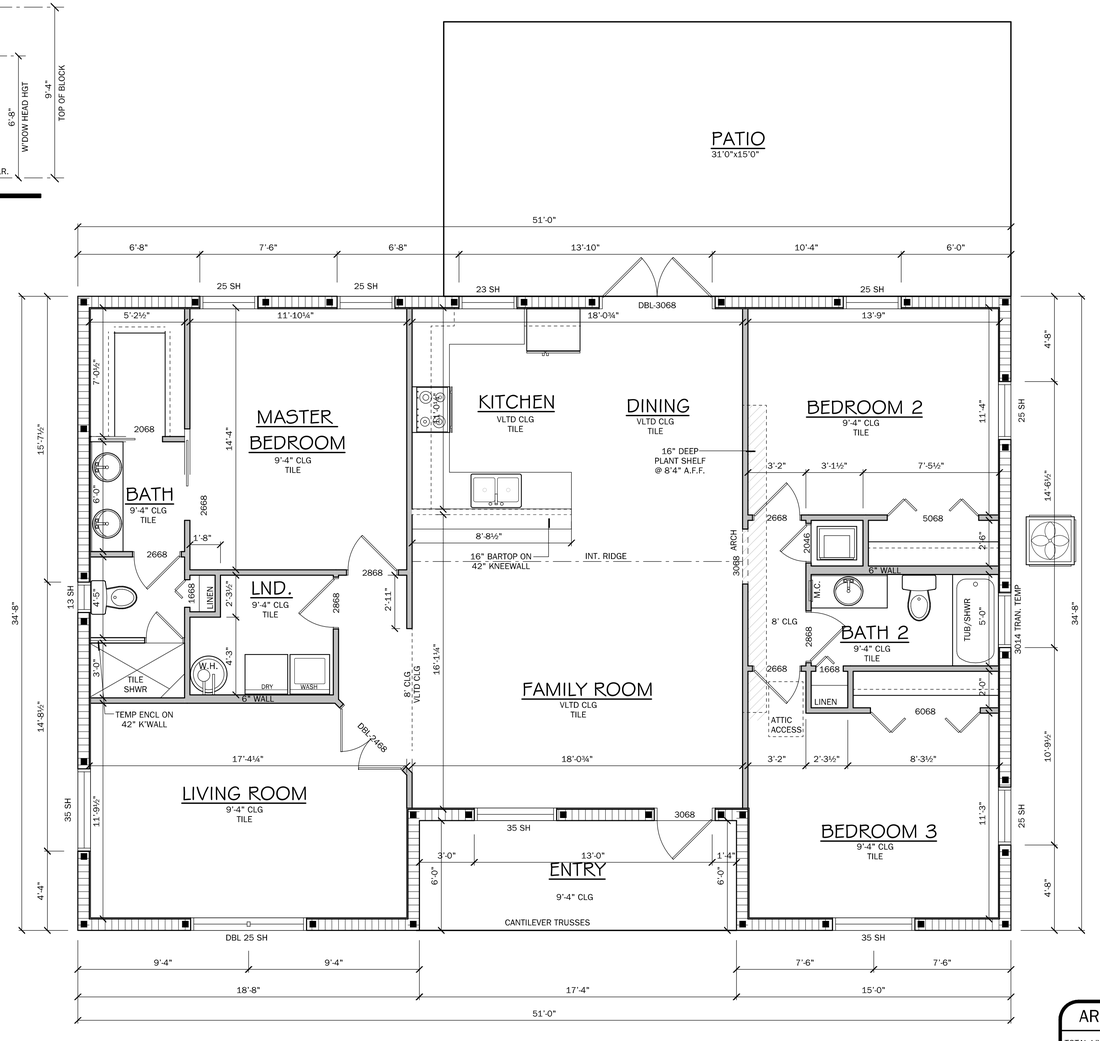
- FRAMED WALL
- BEARING WALL
- BEARING WALL (FLOOR SYSTEM ONLY)
- 8" CMU WALL

VENTILATION CALCULATION

FORMULA PER FRBC 2020 SEC 806.2= S.F / 300 (1/300) / 2 (INTAKE vs EXHAUST) * 144 (TO CONVERT TO SQ. INCHES) = NET SQ. INCH REQUIREMENT

1768/300 = 5.9 /2 = 2.9* 144 = 418
418 SQ. INCHES OF VENTILATION REQUIRED

NOTE: SOFFITS ARE TO BE PERFORATED AND THE NET FREE SQUARE INCHES SHALL MEET OR EXCEED THE CALCULATED AMOUNT OF VENTILATION REQUIRED



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

AREA CALCULATIONS

TOTAL LIVING	1664 S.F.
ENTRY PORCH	104 S.F.
TOTAL AREA UNDER ROOF	1768 S.F.

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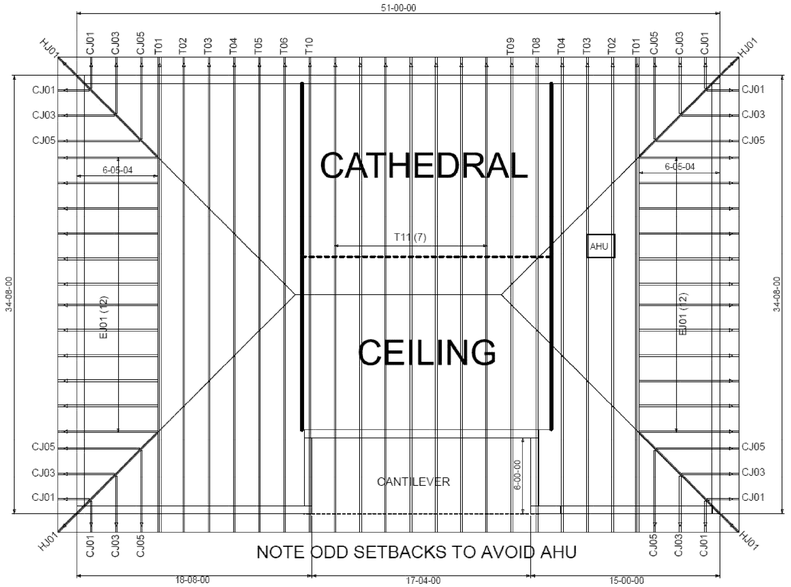
RANDOLPH WIGGINS, P.E.
1431 E. Wade Street, Suite B Trenton, FL 32693
STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2020 FLORIDA RESIDENTIAL BUILDING CODE, 2018 INTERNATIONAL RESIDENTIAL CODE ONLY FOR THE STRUCTURAL DESIGN
RANDOLPH WIGGINS, P.E. FL # 15721
DATE: January 06, 2021

STEVE SMITH CONSTRUCTION INCORPORATED
#CBC1256817
9651 NE 110th Ave Archer, FL 32618
(352) 486-4290

PROJECT:
Newton Residence
Lot 54 SW Rum Island Terrace
Ft. White, FL 32038
Columbia County
LAST PLOT DATE: January 06, 2021
11:42 AM

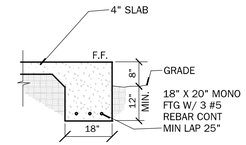
SHEET NO.
2
OF
4



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

MARK	HOLD DOWN ANALYSIS	UPLIFT
	UNLESS NOTED OTHERWISE: 1.) ALL HARDWARE TO BE SIMPSON OR (USP) 2.) CMU CONNECTIONS = HETA16 W/ 9-10d x 1 1/2 OR (HTA 16 W/ 13-10d x 1 1/2) 3.) WOOD CONNECTIONS = H2.5 w/ 10 TOTAL 8d FROM O# UPLIFT TO 415# OR (RT3 w/ 8 TOTAL 8d FROM O# UPLIFT TO 415#) AND H10 W/ 14-10d OR (MTW 12 W/14-10d) FROM 416# UPLIFT TO 860# UPLIFT	1500#U
Ⓐ	2 - HETA 16 W/ 12 - 16d EACH. OR (2 - HTA16 W/ 10 - 16d EACH) NOTE: ONE STRAP EACH FACE STAGGERED. FOR 1-PLY TRUSSES USE 13-10d x 1 1/2" NAILS.	1-PLY 2035 #U 2-PLY 2500 #U

NOTE:
TRUSS TO MASONRY CONNECTORS TO BE SIMPSON HETA-16 TYP. U.N.O.
TRUSS TO FRAME CONNECTORS TO BE SIMPSON H10 TYP. U.N.O.



1 SINGLE STORY FTG
BEARING SCALE: 1/2" = 1'0"

NOTES:
UNLESS OTHERWISE NOTED

1. ELECTRICAL OUTLET HEIGHTS AS MEASURED FROM FINISHED FLOOR TO CENTERED LINE OF THE BOX TO BE: 12" AFF (GENERAL)

KITCHEN	44" AFF
BATHROOM	39" AFF
LAUNDRY ROOM	36" AFF
EXTERIOR WATERPROOF	12" AFF
GARAGE GENERAL PURPOSE	42" AFF
RANGE	2" AFF

2. ALL TRIM PLATES & DEVICES TO BE GANGED, WHERE POSSIBLE.

3. ELECTRICAL SWITCHES TO BE AT 42" CENTERLINE ABOVE FINISHED FLOOR.

4. ELECTRICAL PLAN IS INTENDED FOR BID PURPOSES ONLY. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, LATEST EDITION, BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION & SIZING OF ALL ELECTRICAL, WIRING & ACCESSORIES.

5. SMOKE DETECTORS SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE, SECTION 907.

6. KEEP ALL SMOKE DETECTORS MINIMUM OF 36" FROM BATHROOM DOORS

7. IN NEW CONSTRUCTION, SMOKE DETECTORS SHALL BE HARDWIRED INTO AN A/C ELECTRICAL POWER SOURCE AND SHALL BE EQUIPPED WITH A MONITORED BATTERY BACKUP.

8. BATHROOM EXHAUST FANS MUST VENT TO THE EXTERIOR OF THE BUILDING, ATTIC SPACE AND SOFFITS ARE NOT ACCEPTABLE.

11. ALL DOORS AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2017 THAT HAS A MINIMUM SOUND PRESSURE RATING OF 85 dBA AT 10 FEET, AND EITHER HARDWIRED OR OF THE PLUG-IN TYPE. THE EXIT ALARM SHALL PRODUCE A CONTINUOUS AUDIBLE WARNING WHEN THE DOOR OR WINDOW ARE OPENED.

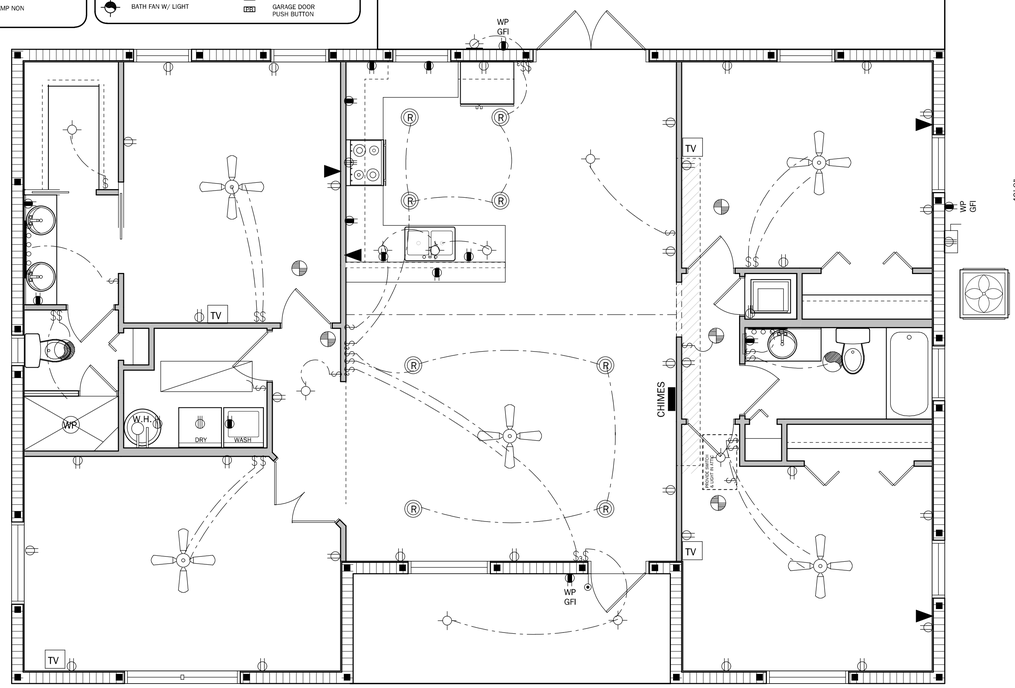
12. STOVE AND DRYER TO HAVE NEUTRAL

13. PROVIDE TAMPER RESISTANT RECEPTACLES WHERE APPLICABLE

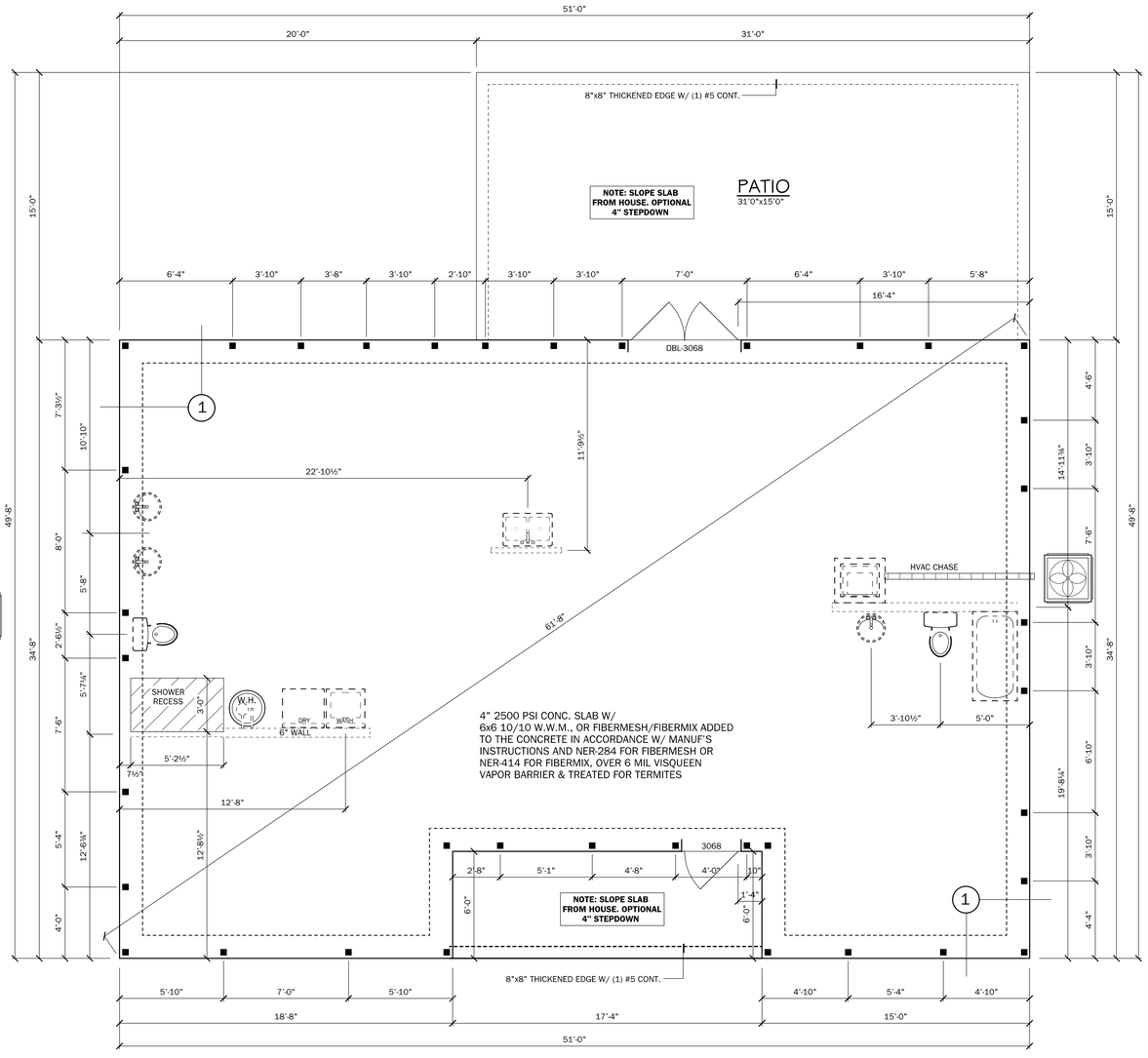
14. PROVIDE ARC-FAULT RECEPTACLES ON ALL 15 & 20 AMP NON GFCI PROTECTED CIRCUITS

ELECTRICAL LEGEND

$	SINGLE POLE SWITCH	CO	CARBON MONOXIDE DETECTOR
$2	DOUBLE POLE SWITCH		SMOKE DETECTOR
$3	THREE-WAY SWITCH		FLOOD LIGHT
$4	FOUR-WAY SWITCH		FLUORESCENT LIGHTING
$DM	DIMMER SWITCH		CEILING FAN
	CEILING FIXTURE	CHIMES	DOOR BELL CHIMES
	SCOUNCE (WALL MOUNTED) FIXTURE		DOOR BELL
	110 VOLT DUPLEX OUTLET	DISP	DISPOSAL
WP	110 VOLT SPLIT SWITCHED OUTLET		DISCONNECT SWITCH
WP	GROUND FAULT INTERRUPT	SP	PREWIRE SPEAKER
WP	WATER PROOF W/ GROUND FAULT	J	JUNCTION BOX
	220 VOLT OUTLET	T	THERMOSTAT
	SPECIAL SERVICES OUTLET		LOW VOLTAGE LIGHTING
TV	T.V. CABLE OUTLET	IC	INTERCOM SYSTEM
	TELEPHONE CABLE OUTLET	GDO	GARAGE DOOR PUSH BUTTON
R	RECESSED LIGHTING		
	5"-6" L.E.D. SURFACE MOUNT		
	BATH FAN		
	BATH FAN W/ LIGHT		



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



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

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PLAN REVISIONS
CUSTOM DESIGNS
AIBD

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STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2020 FLORIDA RESIDENTIAL BUILDING CODE, 6th EDITION AND ASCE 7-16 MINIMUM DESIGN LOADS FOR THE STRUCTURAL DESIGN
RANDOLPH WIGGINS, P.E. FL # 15721
DATE: May 05, 2021

STEVE SMITH CONSTRUCTION INCORPORATED
#CBC1256817
9651 NE 110th Ave Archer, FL 32618
(352) 486-4290

PROJECT:
Newton Residence
Lot 54 SW Rum Island Terrace
Ft. White, FL 32038
Columbia County
LAST PLOT DATE: January 06, 2021 11:43 AM

SHEET NO.
3
OF
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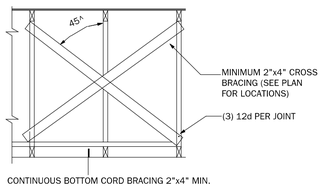

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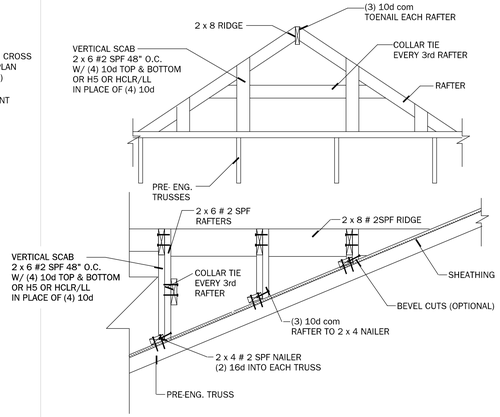
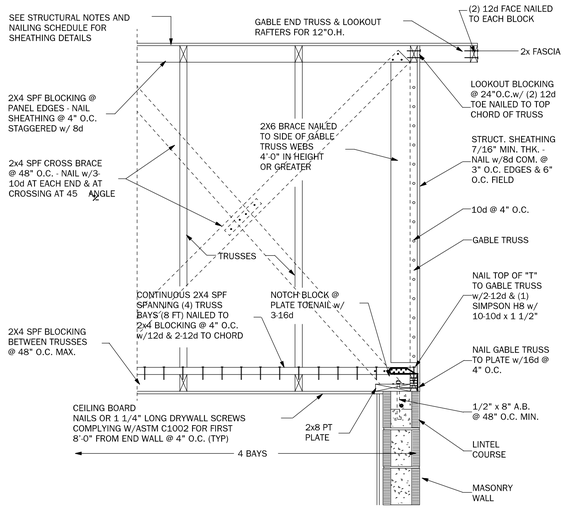
CROSS BRACING DETAIL



12 S-1

CONVENTIONAL VALLEY ASSEMBLY

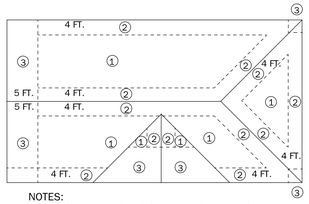
N.T.S.



9 S-1

GABLE END BRACING

SCALE: N.T.S.



NOTES:
1. STAGGER END JOINTS @ FRAMING MEMBER
2. TYP. H - CLIP, EA. JOINT BETWEEN EA. FRAMING MEMBER
3. TYP. LOOKOUTS @ EA. JOINT & 24" O.C.
4. TYP. MIN. PLYWOOD WIDTH 12"

TYP. CLG. FOR ENTRY'S AND COVERED PORCHES EXTERIOR 7/16" OSB SPAN RATED FOR NAILING PATTERN SEE ZONE (1) ON ROOF DIAPHRAGM ABOVE

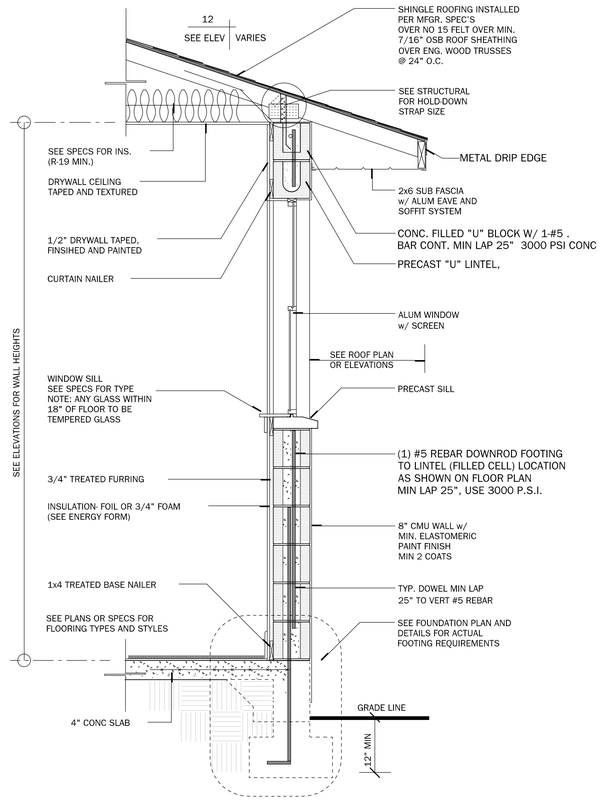
ROOF NAILING SCHEDULE:

ZONE 1 : 8d RINGSHANK NAILS @ 6" O.C. (ON EDGES & FIELD)
ZONE 2 : 8d RINGSHANK NAILS @ 6" O.C.(ON EDGES AND FIELD)
ZONE 3: 8d RINGSHANK NAILS @ 6" O.C. IN FIELD
8d RINGSHANK NAILS @ 4" O.C. ON EDGE

15 S-1

ROOF DIAPHRAGM NAILING SCHEDULE

N.T.S.



6 S-1

TYPICAL WALL SECTION

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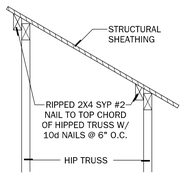
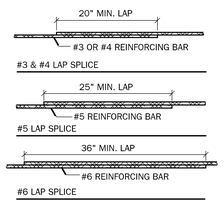


10 S-1

ALT. TO HIP BLOCKING

N.T.S.



11 S-1

REBAR SPLICE DETAIL

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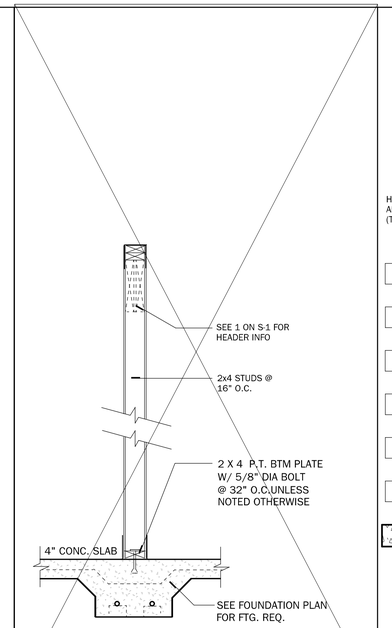

7 S-1

INTERIOR BRG. WALL DETAIL

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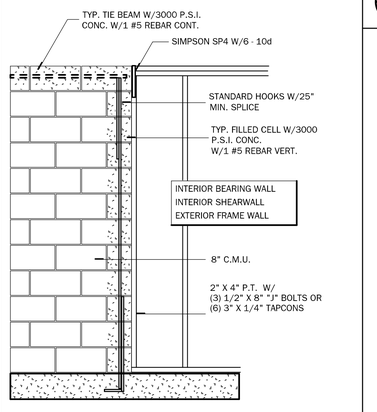

9 S-1

FRAME TO CMU DETAIL

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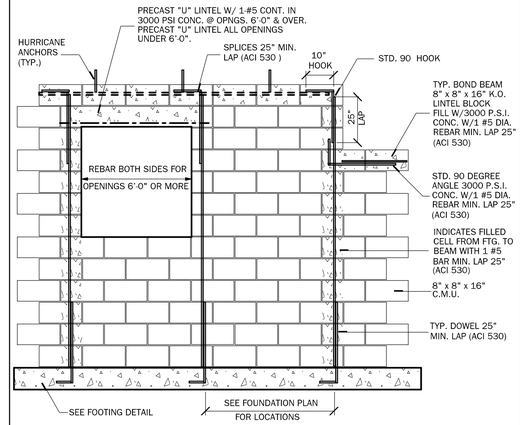

1 S-1

CMU WALL REINFORCEMENT

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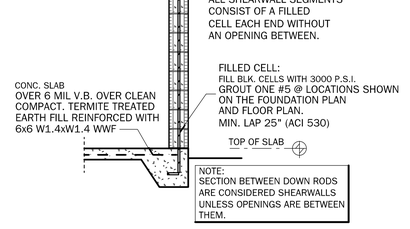

2 S-1

TYP. SHEARWALL SECTION

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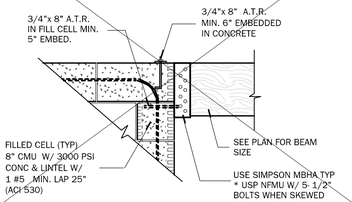

4 S-1

BEAM TO WALL DETAIL

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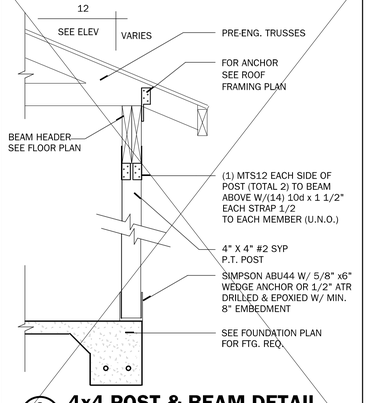

8 S-1

4x4 POST & BEAM DETAIL

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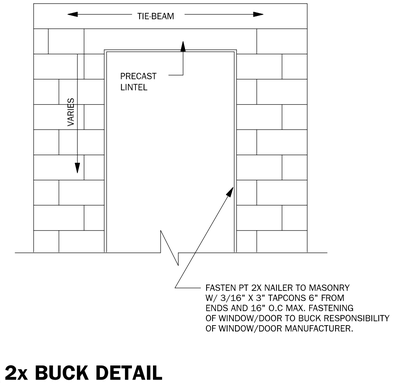

3 S-1

2x BUCK DETAIL

N.T.S.

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STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2020 FLORIDA RESIDENTIAL BUILDING CODE. ROOF TRUSS DESIGN IS NOT INCLUDED AND IS NOT THE STRUCTURAL DESIGN
RANDOLPH WIGGINS, P.E. FL # 15721
DATE: JULY 05, 2021

STEVE SMITH CONSTRUCTION INCORPORATED
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PROJECT:
Newton Residence
Lot 54 SW Rum Island Terrace
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Columbia County

LAST PLOT DATE: January 06, 2021 11:41 AM

SHEET NO.
S-1
OF
4