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 2¼" 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 TRUSS 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.

USP AND SIMPSON CONNECTOR CROSS REFERENCE CHART

REF. NO./NO. OE/BP	USP	REF. NO./NO. OE/BP	USP	REF. NO./NO. OE/BP	USP	REF. NO./NO. DS/BP	USP	REF. NO./NO. DS/BP	USP	REF. NO./NO. DS/BP	USP
10DSHDG	N10C-3	CBSQ66-SDS2HDG	CBSQ66-HDG	HH6	HH66	LSTA18	LSTA18	MSTAM36	MSTAM36	RTC42	TTC42-TZ
10DHDG	N10C-1	CCQ448DS2.5	KCCQ44	HHUS410	THD410	LSTA21	LSTA21	MTS12	MTW12	RTF2Z	TTF22-TZ
1212HLHDG	LH12-HDG	CCQ466DS2.5	KCCQ66	HL33	KHL33	LSTA24	LSTA24	MTS12Z	MTW12-TZ	RTR	TTR-TZ
1212HTHDG	TH12-HDG	CCQ466SDS2.5	KCCQ66	HL33HDG	KHL33-HDG	LSTA30	LSTA30	MTS16	MTW16	RTU2	TTU2-TZ
1212L	L12	CPS4	CPB44	HL35	KHL35	LSTA36	LSTA36	MTS16Z	MTW16-TZ	S8V	SB12
1212T	T1212	CPS5	CPB55	HL35HDG	KHL35-HDG	LSTA9	LSTA9	MTS19	MTW18	SD10112	LL915R50
12RT	T12	CPS6	CPB66	HL50HDG	KHL50-HDG	LSTHD8	LSTAD8	MTS20	MTW20	SD10212	LL930R50
16DSHDG	N16C-5	CS14-R	RS14-R	HRS12	HRS12	LSU26	LSSH15TZ	MTS20Z	MTW20-TZ	SDSX1.25	LL915R50
16DHDG	N16C-1	CS16	RS150	HRS416Z	HRS416-TZ	LSU26Z	LSSH15TZ	MTS8H16	HTW816	SDS112	LL915R50
66L	L6	CS16-R	RS16-R	HRS6	HRS6	LTB20	N16	N10DSHDG	NA90-5MC	SD9212	LL930R50
66T	T6	CS18-R	RS18-R	HRS8	HRS8	LTP4	MP4F	N10DHDG	NA90-1MC	SDS25112	WS15-SP
88L	L8	CS20	RS250	HS24	RT8	LTP5	MP5F	N16	NA16D	SDS25112-R25	WS15-SCR25
A21	JA1	CS22-R	RS22-R	HST2	KHST2	LTS12	LTW12	N8DSHDG	NA11-5MC	SP1	SPT22
A21Z	JA1-TZ	DJT1HZ	SDJT1HTZ	HST2HDG	KHST2-HDG	LTS16	LTW16	N8DHDG	NA11-1MC	SP1Z	SPT22-TZ
A23	A3	DPPC4BK	PCP44	HST5	KHST5	LTT20B	LTS20B	NC42x16-16	NBG1616	SP2	SPT24
A23Z	A3-TZ	DPPC6BK	PCP66	HTP37Z	HTP37-TZ	LU26	JL26	NS1	KNS1	SP4	SPT4
A24	TDL5	DPT5	SDPT5-TZ	HTS16	HTW16	LU28	JL28	NS2	PL4	SP4Z	SPT4-TZ
A311	TDL10	DPT7Z	SDPT7-TZ	HTS20	HTW20	LUC210Z	JL210IF-TZ	PA18	PA18	SP6	SPT8
A33	BL3	DTC	TTC	HTT5	HTT45	LUC26Z	JL26IF-TZ	PA23	PA23	SPH4	SPTH4
A34	MP34	DTT2Z-SDS2.5	DTB-TZ	HTU26	THD26	LUC28Z	JL28IF-TZ	PA51	TA51	SPH4Z	SPTH4-TZ
A34SS	MP34-SS	EB-TY	DC50-TZ	HU210	HD210	LUS210	JUS210	PA51Z	TA51-TZ	SPH6	SPTH6
A34Z	MP34-TZ	EBCQ56	KECQ56	HU26	HD26	LUS210-2	JUS210-2	PA66Z	TA71-TZ	SPH6Z	SPTH6-TZ
A35	MPA1	ECCQ448DS2.5	KECCQ44	HU419	HD410	LUS210-2Z	JUS210-2TZ	PB44	WE44	SS1.5	STS1
A35SS	MPA1-SS	ECCQ465DS2.5	KECCQ46	HU410	HD410	LUS210-3	JUS210-3	PB44Z	WE44-TZ	SSPZ	RSPTB-TZ
A35Z	MPA1-TZ	ECCQ666DS2.5	KECCQ66	HU412	HD412	LUS210-3Z	JUS210-3TZ	PB66Z	WE66-TZ	SSTB16	STB16-10
A44	BL4	EPB44	EPB4408	HU412	HD412	LUS210BS	JUS210-SS	PBS44A	WAS44	SSTB16HDG	STB16-HDG10
A66	B66	EPB44A	EBQ44-TZ	HUC410	HD410F	LUS210Z	JUS210-TZ	PBS66	WAS46	SSTB20	STB20-10
A88	B88	EPB48HDG	EPB4808-HDG	HUC412	HD412IF	LUS24	JUS24	PC46-16	PCM4416	SSTB24HDG	STB24-HDG19
ABW44Z	PA44-TZ or PAU44-TZ	EPB66	EPB6608	HUC44	HD44IF	LUS24Z	JUS24-TZ	PC46-16	PCM4616	ST12	ST12
ABA44Z	PA44E-TZ	EPC44-16	EPCM4416	HUC46	HD46IF	LUS26	JUS26	PC56-16	PCM5616	ST18	ST18
ABA46Z	PA46E-TZ	EPC46-16	EPCM4616	HUC66	HD66IF	LUS26-2	JUS26-2	PF24	JPF24	ST22	ST22
ABA56R	PA56ER-TZ	EPC56-16	EPCM5616	HUS1.81/10	HUS179	LUS26-2Z	JUS26-2TZ	PF24Z	JPF24-TZ	ST2215	KST216
ABA66Z	PA56E-TZ	EPC56-16	EPCM5616	HUS26	HUS26	LUS26SS	JUS26-SS	PF26	JPF26	ST6224	KST224
ABU44	PAU44	FB24Z	FC24-TZ	HUS28	HUS28	LUS26Z	JUS26-TZ	PF26Z	JPF26-TZ	ST6236	KST234
ABU44Z	PAU44-TZ	FB26	FB26-TZ	IT81.81/11.88	THD17118	LUS28	JUS28	PFD26	JD526	ST9	ST9
ABU46Z	PAU46-TZ	FPB844	BD	ITS2.37/11.88	TFL33118	LUS28-2	JUS28-2	PGTL52-R	PRT15-TZ	STC	TRT
ABU66	PAU66	FPB844E	SMP	ITS2.56/11.88	TFL35118	LUS28-2Z	JUS28-2TZ	PGT2A	PRT2H-TZ	STHD10	STAD10
ABU66Z	PAU66-TZ	FPB844	SFP30	IU51.81/11.88	THF17112	LUS28-3	JUS28-3	PGT2E	PRT2-TZ	STHD14	STAD14
AC4	PBS44	GA1	A3	IU52.37/11.88	THF23118	LUS28-3Z	JUS28-3TZ	PGT2Z-R	PRT2H-TZ	SUL210	SKH210L
AC4Z	PBS44-TZ	GA2	A3	IU52.56/11.88	THF25112	LUS28Z	JUS28-TZ	PCTC22-R	PRTHC2-TZ	SUL210Z	SKH210L-TZ
AC6	PBS66	I11	RT15	IU52.56/16	THF25160	LUS410	JUS410	PS218	PS218-HDG	SUL26	SKH26L
AC6Z	PBS66-TZ	H10-2	RT16-2	JB210	HL210	LUS44	JUS44	PS418	PS418-HDG	SUL26Z	SKH26L-TZ
ACE4	PBE844	H10-2Z	RT16-2TZ	JB28	HL28	LUS44Z	JUS44-TZ	PSCL1/2-R250	PC12	SUR210	SKH210R
ACE6	PBES66	H10A	RT16A	L30	A3	LUS46	JUS46	PSCL1/2-R50	PC12-BMC	SUR210Z	SKH210R-TZ
BC4	C44	H10AZ	RT16A-TZ	L50	AC5	MAB15	ST1-TZ	PSCL15/32-R250	PC1532	SUR26	SKH26R
BC4Z	D44-TZ	H1Z	RT15-TZ	L50Z	AC5-TZ	MAB15Z	ST1-TZ	PSCL15/32-R50	PC1532-BMC	SUR26Z	SKH26R-TZ
BC4OZ	D44-TZ	H2.5A	RT7	L70	AC7	MAB21Z	ST2-TZ	PSCL19/32-R250	PC1932	TA10	SCA10-TZ
BC46	C46	H2.5A	RT7A	L70Z	AC7-TZ	MABA	FA3	PSCL19/32-R50	PC1932-BMC	TA10Z	SCA10-TZ
BC4Z	C44-TZ	H2.5ASS	RT7-SS	L90	AC9	MABAZ	FA3-TZ	PSCL5/8-R250	PC58	TA9Z	SCA9-TZ
BC6	C66	H2.5AZ	RT7A-TZ	L90Z	AC9-TZ	MBTA20	HTA20-18	PSCL5/8-R50	PC58-BMC	THA213	MSH213
BC6OZ	D66-TZ	H2.5AZ	RT7-TZ	LBP1Z	LBP12-TZ	MIT41T1.88	THOT1116-2	PSCL7/16-R250	PC716	THA218	MSH218
BCS2-2/4	BC400-TZ	H2A	RT10	LBP58Z	LBP556-TZ	ML24Z	ML24-TZ	PSCL7/16-R50	PC716-BMC	THA29	MSH29
BCS2-2/4Z	BC400-TZ	H3	RT3A	LBP81OZ	LBP812-TZ	ML26Z	ML26-TZ	PSPR616Z	ICPL516-TZ	THA422	MSH422
BP1/2-2HDG	HBPS12-HDG	H3Z	RT3A-TZ	LBP58/8	LBP858-TZ	MP14	TPP14	PSPN58Z	ICPL58-TZ	THD50600HMG-RP	I7750SD
BPS/8	BPS83	H4	RT4	LBP858Z	LBP858-TZ	MP24	TPP24	RBC	RBC	THD52600HMG	I7756SD
BPS/8-2HDG	BPS82-HDGBC	H5	RT5	LCB44	CB844	MP36	TPP36	RFBMX5HDG-R	THRT25-HDGBMC	TP15	NP15
BPS/8-3HDG	BPS83-HDG	H6	LFTA6	LCE4	PBE844	MST27	KST227	RFBMX12HDG-R	THRS812-HDGBMC	TP35	NP35
BPS/8HDG	BPS83-HDG	H8	RT8A	LGT2	LUGT2	MBT37	KST237	RFBMX16HDG-R	THRS816-HDGBMC	TP37	NP37
BPS10-3	HBPS12	H8Z	RT8A-TZ	LPC4Z	PB44-6TZ	MST48	KST248	RFBMX5-	THRS85-HDG	TP39	NP39
BPS8-3	HBPS8	HCP2	HHCP2	LPC6Z	PB66-6TZ	MST60	KST260	RFBMX5HDG-R	THRS85-HDG	TP45	NP45
BPS8-3HDG	HBPS8-HDG	HD12	TDX14	LS30	MP3	MSTA12	MSTA12	RFBMX8	THRS88-HDG	TP47	NP47
BT-R	WT22-BMC	HD3B	TDX2-TZ	LS50	MP5	MSTA12Z	MSTA12-TZ	RPS18	KRPS18	TP57	NP57
CB44	KCB44	HD5B	TDX6	LS50Z	MP5-TZ	MSTA15Z	MSTA15-TZ	RPS22	KRPS22	TSBR2-24	31-24
CB44HDG	KCB44-HDG	HD7B	TDX10	LS70	MP7	MSTA18	MSTA18	RPS22Z	KRPS22-TZ	TSP	LFTA6
CB46	KCB46	HDU2-SDS2.5	PHD2A	LS70Z	MP7-TZ	MSTA18Z	MSTA18-TZ	RPS26Z	KRPS28-TZ	TWB10	WBT10
CB66	KCB66	HDU4-SDS2.5	PHD4A	LS90	MP9	MSTA24	MSTA24	RR	RR	TWB12	WBT12
CB66HDG	KCB66-HDG	HDU5-SDS2.5	PHD5A	LSCZ	CSH-TZ	MSTA24Z	MSTA24-TZ	RSP4	RSPT4	U210-2	SUH210-2
CBSQ44-SDS2	CBSQ44-TZ	HDU8-SDS2.5	PHD8	LSU210	LSSH210	MSTA30	MSTA30	RTA12	TTA12-TZ	UFP10-SDS3	SRC
CBSQ44-SDS2HDG	CBSQ44-HDG	HETA20	HTA20	LSU28	LSSH157TZ	MSTA30Z	MSTA30-TZ	RTA2Z	TTA2-TZ	WI	WG
CBSQ46-SDS2	CBSQ46-TZ	HGA10KT	HGA10KT	LSU2U25	LSSH179	MSTA36	MSTA36	RCWB12	WBC12	WB126	WB126
CBSQ46-SDS2HDG	CBSQ46-HDG	HGAM10KTA	HGAM10KTY	LSTA12	LSTA12	MSTA36Z	MSTA36-TZ	RTB2Z	TTB2Z-TZ	WB126C	RWB114
CBSQ66-SDS2	CBSQ66-TZ	HH4	HH44	LSTA15	LSTA15	MSTAM24	MSTAM24	RTC24	TTC24-TZ	Z2	ZC2

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	20 PSF (REDUCIBLE)
RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED	40 PSF
BALCONIES	60 PSF
STAIRS	40 PSF
LIGHT PARTITIONS (DEAD LOAD), U.N.O.	20 PSF 10 PSF ATTIC L.L.

CONCRETE STRENGTH @ 28 DAYS:

ALL CONCRETE UNLESS OTHERWISE INDICATED	2500 PSI
PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY	3000 PSI
(DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS)	

REINFORCING:

WELDED WIRE FABRIC SHALL CONFORM TO	ASTM A1064/A1064M
ALL REINFORCING BARS	ASTM A615-40 40,000 PSI
ALL STIRRUPS AND TIES	ASTM A615-40 40,000 PSI
POLYPROPYLENE FIBERS FOR SLABS ON GRADE	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:	SHINGLE ROOF:
TOP CHORD LIVE LOAD:	20 PSF
TOP CHORD DEAD LOAD:	10 PSF
BOTTOM CHORD DEAD LOAD:	10 PSF 40 PSF
BOTTOM CHORD ATTIC LIVE LOAD:	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

BUILDING INFO

OCCUPANCY — GROUP R-3

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

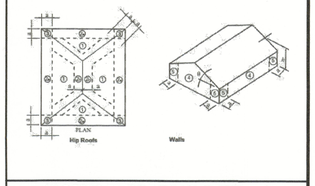
COMPONENT & CLADDING LOADS

HIP ROOF > 27 TO 45 DEGREES

ZONE	WIND AREA	Pos	Neg
1	10	13.0	-26.0
1	20	11.3	-23.0
1	50	10.0	-19.2
1	100	10.0	-16.2
2e	10	13.0	-30.9
2e	20	11.3	-24.4
2e	50	10.0	-15.1
2e	100	10.0	-15.1
2r	10	13.0	-39.1
2r	20	11.3	-32.8
2r	50	10.0	-24.5
2r	100	10.0	-18.2
3	10	13.0	-41.7
3	20	11.3	-31.4
3	50	10.0	-18.2
3	100	10.0	-18.2

WALLS

ZONE	WIND AREA	Pos	Neg
4	10	18.2	-19.8
4	20	17.4	-19.0
4	50	16.3	-17.9
4	100	15.5	-17.1
4	500	13.6	-15.1
5	10	18.2	-24.4
5	20	17.4	-22.8
5	50	16.3	-20.6
5	100	15.5	-19.0
5	500	13.6	-15.1



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 PROFESSIONAL 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

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PROFESSIONAL ENGINEER
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Columbia County Building Department
Reviewed for
File Copy
Code Compliance
Plans Examiner

PROJECT:
Mccallister Residence
Lot 2 Foxwood Subdivision
Ft. White, FL
Columbia County
LAST PLOT DATE: September 20, 2023 03:39 AM

SHEET NO.
1
OF
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