STRUCTURAL SCOPE OF WORK . THE STRUCTURAL SCOPE OF WORK IS INTENDED TO ADDRESS THE FOUNDATION AND FRAMING FOR A NEW

GENERAL NOTES

. ALL WORK SHALL CONFORM TO THE LATEST FLORIDA BUILDING CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES. OBTAIN ALL REQUIRED PERMITS FOR THE PROPER LEGAL EXECUTION OF THE WORK DESCRIBED IN THESE 2. PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES OR RAFTERS TO FOUNDATION FOR ALL NEW CONSTRUCTION. IF ANY DISCREPANCIES, CALL ENGINEER FOR CLARIFICATION BEFORE PROCEEDING.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING ANY WORK, HE/SHE SHALL NOTIFY THE DESIGNER OF ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL SITE CONDITIONS FOUND

FOUNDATION DESIGN IS BASED ON 1,500 PSF STABLE SOIL CONDITIONS PROVIDE TESTING ON SOIL COMPACTION PRIOR TO LAYING STEEL OR POURING CONCRETE. COMPACTION SHOULD ACHIEVE 95% MODIFIED PROCTOR DENSITY. PROVIDE ADEQUATE BLOCKING BEHIND ALL WALL MOUNTED FIXTURES
PROVIDE ALL ACCESSORIES, HARDWARE AND MISC. ITEMS AS PER DRAWINGS AND SPECIFICATIONS. ALL ITEMS SHALL

BE INSTALLED AS PER MANUFACTURERS WRITTEN INSTRUCTIONS AND CUT SHEETS.

CONTRACTOR MUST VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. ALL CONCRETE SHALL BE 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, NOR WILL HE, BE RESPONSIBLE FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, OR THE CONTRACTORS FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR OR HAVE CONTROL OR CHARGE OVER THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTORS, OR ANY OF THEIR

CODES AND DESIGN CRITERIA

THE DESIGN IS BASED ON, AND ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) WITH AMENDMENTS AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. USE THE REFERENCED EDITIONS FROM THE FBC CHAPTER 35 OR THE LATEST EDITIONS IF NOT REFERENCED: AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7-2016: "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

STRUCTURAL CONCRETE:
"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE:
"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE: THE AMERICAN CONCRETE INSTITUTE (ACI 318-14 AND ACI 350-06) MASONRY:
"BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES"

AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.

THE MASONRY SOCIETY (TMS 402/602-16) STRUCTURAL STEEL:
STEEL CONSTRUCTION MANUAL - FIFTEENTH EDITION BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AICS 360-16) $\underline{\text{WOOD:}}$ "NATIONAL DESIGN SPECIFICATION" AND SUPPLEMENT (ANSI/AWC NDS-18)

2. <u>LIVE LOADS (REDUCIBLE BY CODE):</u>
ROOF LININHABITABLE ATTIC DESIGNATED ATTIC STORAGE AREA 20 PSF SLAB ON GRADE

3. <u>SUPERIMPOSED DEAD LOADS:</u>
CEILING/ROOFING/MEP 10 PSF

 WIND LOAD DESIGN DATA: WIND LOADS SHALL BE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (REFERENCING ASCE 7-16). MAIN WIND FORCE RESISTING SYSTEM WIND DESIGN DATA: ULTIMATE DESIGN WIND SPEED, 3 SECOND GUST, VULT.

WINDBORNE DEBRIS REGION WIND EXPOSURE CATEGOR' WIND TOPOGRAPHIC FACTOR (KZT) ENCLOSURE CATEGORY PARTIALLY OPEN INTERNAL PRESSURE COFFEIGIENT +/- 0.18 18 FEET MEAN ROOF HEIGHT WIND DIRECTIONALITY FACTOR, KD

0.88 29.9 PSF ULTIMATE VELOCITY PRESSURE (QHIULTI) M. COMPONENT & CLADDING WIND PRESSURES
N. DIMENSION "a" D. GOUND ELEVATION FACTOR, KE 5. DISTRIBUTE THE MAXIMUM LOAD HUNG FROM ANY STRUCTURAL MEMBERS FOR MEP DUCTWORK, PIPING ETC OVER

STRUCTURAL STEEL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON

6. STRUCTURAL COMPONENTS ARE NOT DESIGNED FOR VIBRATING EQUIPMENT, MOUNT VIBRATING EQUIPMENT ON

DOCUMENTS ARE NOT EXCEEDED. THE CONTRACTOR SHALL COORDINATE THE LOADS OF ALL TRADES AND PROVIDE

DDITIONAL SUPPORT OR DISTRIBUTION FRAMING AS REQUIRED TO ACHIEVE THE ALLOWABLE LOAD DISTRIBUTION

ROLLED SHAPES: ASTM A572 OR A992, MIN. YIELD STRENGTH 50 KSI HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B, MIN YIELD STRENGTH 42 KSI FOR ROUND AND 46 KSI FOR RECTANGULAR HSS PLATES ASTM A36. MIN YIELD STRENGTH 36 KSI

C-SHAPES \$ MC-SHAPES ASTM A36 ANGLES & LATICS
HIGH STRENGTH BOLTS
BOLTS
ASTM A325 (STEEL-TO-STEEL CONNECTIONS)
ASTM A307 (STEEL-TO-WOOD CONNECTIONS)

VIBRATION ISOLATORS.

THREADED RODS ASTM A36 WELDED HEADED STUDS ASTM A 1 08 WELDING ELECTRODES AWS DI.I, E70 SERIES ASTM A563

ALL WELD OPERATORS SHALL BE CURRENTLY AWS QUALIFIED.

4. SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. USE 3/16" FILLET WELD MINIMUM. 5. FIELD CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED AS DETAILED. ALL BOLTS SHALL BE FASTENED TO

2. ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF ANCHOR BOLTS OR RODS (PER

6. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE SER IN WRITING.

7. SHOW ALL COPES, HOLES, OPENINGS AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS FOR APPROVAL BY THE ARCHITECT AND 8. FIELD MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND

9. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE STRUCTURAL WELDING CODE, ANS//AWS DI.I, LATEST EDITION. ALL WELD SIZES SHALL BE THE LARGER OF THE SIZE REQUIRED BY CONNECTION FORCES, THE MINIMUM SIZE PER ANSI/AWS DI.I, OR 3/16 INCH MINIMUM FILLET WELD UON. ANY WELD SIZES SHOWN ON THE DESIGN DRAWINGS ARE CONSIDERED EFFECTIVE WELD SIZES AND SHALL BE INCREASED IN ACCORDANCE WITH AWS AS REQUIRED BY

REINFORCEMENT

REINFORCING BARS: ASTM AG 15, GRADE 60

CORROSIVE SUPPORTS SUCH AS PLASTIC.

WELDED PLAIN WIRE MESH: ASTM A 185, MINIMUM YIELD STRESS OF 60 KSI BELOW GRADE: UNFORMED CENTER REBAR IN MASONRY CELLS UON.

REINFORCEMENT SPLICE LAP WELDED WIRE MESH: 8" DO NOT USE REBAR STAKES AS CHAIRS. CHAIRS SHALL BE MASONRY OR NON-

CAST-IN-PLACE CONCRETE

NORMAL WEIGHT STRUCTURAL CONCRETE MINIMUM 28-DAY COMPRESSIVE STRENGTH, fc: 3,000 PSI

PROVIDE NORMAL WEIGHT CONCRETE WITH CURED DENSITY OF 145 +/- 5 PCF, AND AGGREGATE CONFORMING TO THE USE OF CALCIUM CHLORIDE AND OTHER CHLORIDE CONTAINING AGENTS IS PROHIBITED. THE USE OF RECYCLED CONCRETE IS PROHIBITED. PLACEMENT WITHIN AND CONTACT BETWEEN ALUMINUM ITEMS, INCLUDING ALUMINUM CONDUIT. AND CONCRETE IS PROHIBITED. ALL CAST-IN-PLACE CONCRETE WILL EXPERIENCE DIFFERING VARIATIONS OF CRACKING. ANY ELEMENT EXPOSED TO DIRECT WEATHER AND/OR TEMPERATURE VARIATIONS DURING CONSTRUCTION OR IN THE FINAL CONDITION IS TO BE TREATED AND REGULARLY MAINTAINED TO PREVENT PROPAGATION OF CRACKS AND WATER PENETRATION. THE CONTRACTOR SHALL DEVELOP A REGULAR MAINTENANCE PROGRAM AND SUBMIT IT TO THE OWNER.

MAXIMUM W/C RATIO OF 0.50 FOR FOOTINGS AND 0.45 FOR OTHER CONCRETE. CMU GROUT SHALL HAVE W/C RATIO OF 0.60 OR HIGHER. ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI 347, RECOMMENDED STANDARD PRACTICE FOR CONCRETE FORMWORK. RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF

8. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED UNLESS OTHERWISE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

9. THE CONTRACTOR SHALL EMPLOY A TESTING LABORATORY TO PREPARE TEST CYLINDERS REPRESENTING CONCRETE POURED EVERY DAY, ONE SET PER DAY OR ONE SET MINIMUM FOR EACH 50 CUBIC YARDS POURED. THE TESTING LABORATORY TECHNICIAN SHALL BE PRESENT AT THE BEGINNING OF EACH POUR. LABORATORY REPORT SHALL BE

FURNISHED TO THE STRUCTURALENGINEER SHOWING STRENGTH OF CONCRETE AT 7 AND 28 DAYS.

. STRUCTURAL FRAMING PLANS DEPICT THE PRIMARY STRUCTURAL FRAMING SYSTEM. CONTRACTOR SHALL PROVIDE SECONDARY AND MISCELLANEOUS FRAMING AS REQUIRED TO COMPLETE THE PROJECT (SEE ARCHITECTURAL

A. STUDS AND COLUMNS - SOUTHERN PINE #2 OR STRONGER [NOTE: WHERE CYPRESS FRAMING IS INDICATED, USE 4. BALD CYPRESS NO. 2 OR BETTER.] B. LINTELS, FLOOR JOISTS AND BEAMS: SOUTHERN PINE, NO. 2 GRADE [NOTE: WHERE CYPRESS FRAMING IS

INDICATED, USE BALD CYPRESS NO. 2 OR BETTER.]

C. WOOD IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER: ABOVE GRADE PRESSURE-TREATED (AWPA-UC3A OR UC3B) OR GROUND CONTACT RATED PRESSURE TREATED (AWPA-UC4A). GROUND CONTACT RATED WOOD IS RECOMMENDED AT THE CRAWLSPACE AND DECK AREAS (IF PRESENT). USE HOT-DIP GALVANIZED NAILS IN PRESSURE TREATED WOOD.

A. WALL PANELS: 1/2" APA RATED SHEATHING. ROOF PANELS: 1/2" APA RATED SHEATHING.

WOOD SHEAR WALLS PANELS SHALL BE ORIENTED WITH THE LONG DIMENSION IN THE VERTICAL DIRECTION. SOLID 2x BLOCKING SHALL BE PROVIDED AT UNSUPPORTED, HORIZONTAL PANEL EDGES. NAIL PANELS WITH 8d GALV. RINGSHANK NAILS SPACED AT 6" AT THE PERIMETER OF THE PANELS AND AT 12" AT

DOUBLE 2x FRAMING STUDS SHALL BE USED AT THE ENDS OF FACH SHEAR WALL LINO CONNECTIONS FOR STRUCTURAL TIMBER: GALVANIZED STRONG-TIE CONNECTORS BY THE SIMPSON STRONG TIE

5. LAMINATED VENEER LUMBER (LVL) SHALL BE WEYERHAUSE/TRUS JOIST MICROLLAM LVL (OR EQUAL) WITH F6 NOT LESS

PRE-ENGINEERED WOOD TRUSSES 6. BOLTED CONNECTIONS SHALL CONSIST OF ASTM A307 BOLTS, FASTENED TO A SNUG-TIGHT CONDITION.

<u>ABBREVIATIONS</u>

P.T. PRESSURE TREATED GALV. GALVANIZED A.B. ANCHOR BOLT F.B.C. FLORIDA BUILDING CODE U.N.O. UNLESS NOTED OTHERWISE

CONCRETE MASONRY WORK SHALL CONFORM TO TMS 402/602-16, BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.

LOAD BEARING, NON-LOAD BEARING, AND BACKUP WALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS: ASTM C90, NORMAL WEIGHT (MINIMUM 125 PCF) OR LIGHTWEIGHT (105 PCF) (MINIMUM 28 DAY A. CONCRETE BLOCK: COMPRESSIVE STRENGTH 1900 PSI FOR S OR M B. MORTAR: ASTM C270, TYPE S, M OR N PORTLAND CEMENT / LIME C. MORTAR USAGE (UON ON DRAWINGS): USE TYPE S OR M MORTAR WHEN MASONRY IS IN DIRECT CONTACT WITH SOIL; USE TYPE S MORTAR
FOR ALL EXTERIOR AND INTERIOR LOAD-BEARING WALLS; USE TYPE N MORTAR FOR ALL EXTERIOR AND INTERIOR NON-LOAD-BEARING WALLS D. MORTAR ASTM C476 BY PROPORTION (MINIMUM 28 DAY COMPRESSIVE STRENGTH | 500 PSI) E. REINFORCEMENT ASTM AG | 5. GRADE 60 ASTM A82, TRUSS OR LADDER TYPE SPACED AT 16" O.C. G. EXTERIOR JT REINF: GALVANIZE PER ASTM A I 53

GALVANIZE PER ASTM A I 53 ADHESIVE ANCHORS HIT-HY 270 BY HILTI, TULSA, OK 3. MATERIAL SHALL CONFORM TO THE FOLLOWING, HOT-DIPPED GALV. EXCEPT AS NOTED: PLATE AND BENT BAR ANCHORS ASTM A572, GRADE 50. SHEET METAL ANCHORS AND TIES: WIRE MESH TIES: ASTM A 185 OR ASTM A 497 WIRE TIES AND ANCHORS: ASTM A 82, AND ASTM A I 67 ANCHOR BOLTS: F1554 GR.55

HAND MIXING MORTAR IS NOT ALLOWED. PIGMENTS WILL NOT BE ALLOWED IN MORTAR MIX UNLESS OTHERWISE SPECIFIED.
PROVIDE HORIZONTAL JOINT REINFORCEMENT WITH NO. 9 GAGE HOT-DIP GALVANIZED LONGITUDINAL WIRES AT 16" VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC. D.C. MEASURED VERTICALLY, LAP ALL JOINT REINFORCEMENT 6" MIN.

THE MINIMUM COMPRESSIVE STRENGTH OF THE MASONRY (fm) SHALL BE 1,500 PSI UON, VERIFIED BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH THE ABOVE REFERENCED SPECIFICATIONS. CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT. PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE

PROVIDE FULL MORTAR COVERAGE ON WEBS AROUND ALL GROUTED CELLS. LAY MASONRY UNITS IN RUNNING BOND UON WITH UNITS DESIGNED TO ALIGN WITH WEBS IN EACH COURSE. 2. REFER TO PLANS AND DETAILS FOR BONDED JOINT REQUIREMENTS AT WALL CORNERS AND INTERSECTIONS. USE (2) 24"X24" NO.4 CORNER BARS AT WALL CORNERS/INTERSECTIONS OF BOND BEAMS. 13. IF TEMPERATURE FALLS BELOW 40 DEG F. OR EXCEEDS 100 DEG. F SPECIAL CONSTRUCTION MEASURES SHALL BE

TAKEN AS PER FBC 2104.3 AND 2104.4. 14. GROUT PLACEMENT STOPPED FOR ONE HOUR OR MORE SHALL BE STOPPED 1 1/2" BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A SHEAR KEY FOR SUBSEQUENT GROUTING. 15. SHORE ALL BEAMS AND LINTELS, PREFERABLY FOR NOT LESS THAN ONE WEEK, UNTIL CURED MASONRY STRENGTH <u>FOUNDATION</u>

BEARING SOILS SHALL BE FREE OF ORGANIC MATERIAL AND MEET THE FBC REQUIREMENTS TO PROVIDE A MINIMUM OF 1,500 PSF SOIL BEARING DESIGN PRESSURES. PER TABLE R401.4.1 OF THE FLORIDA RESIDENTIAL BUILDING CODE. IT IS THE HOMEOWNER'S RESPONSIBILITY TO VERIFY THAT THE SOIL CONDITIONS ARE SUITABLE FOR THESE ASSUMPTIONS. IT IS SUGGESTED THAT PRIOR TO CONSTRUCTION A GEOTECHNICAL INVESTIGATION BE MADE TO VERIFY THE BEARING PRESSURE AND SUBSURFACE CONDITIONS. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR A. NOTE: SHALLOW SOIL BORINGS WERE REPORTEDLY OBTAINED ONSITE IN ACCORDANCE WITH THE SOIL BORING REPORT, DATED MAY I., 2017, BY FLORIDA SOIL AND ENVIRONMENTAL SERVICES. ENGINEERING RECOMMENDATIONS FOR DEVELOPMENT OF THE SITE WERE EXCLUDED FROM THE REPORT.

PROVIDE TESTING ON SOIL COMPACTION PRIOR TO LAYING STEEL OR POURING CONCRETE. COMPACTION SHOULD ACHIEVE AT LEAST 95% MODIFIED PROCTOR DENSITY. REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE.
FOUNDATIONS SHALL BE ALLOWED TO SETTLE PRIOR TO COMMENCEMENT OF WOOD FRAMED CONSTRUCTION NOTIFY ENGINEER IMMEDIATELY IF CLAY SOILS OR ORGANIC MATERIALS ARE ENCOUNTERED DURING BUILDING PAD 6. FILL, IF NEEDED, SHOULD BE PLACED IN 12-INCH MAXIMUM LOOSE LIFTS, WITH EACH LIFT COMPACTED TO AT LEAST 95% OF THE MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST METHOD (ASTM D-1557)
MAXIMUM DRY DENSITY VALUE. IF HAND HELD COMPACTION EQUIPMENT IS USED, THE MAXIMUM LOOSE LIFT

THICKNESS SHALL BE 6 INCHES. FILL SHALL BE FREE OF ORGANIC MATERIALS, SUCH AS ROOTS AND/OR VEGETATION. USE SAND FILL (UNLESS APPROVED OTHERWISE) WITH BETWEEN 3 TO 12 PERCENT BY DRY WEIGHT PASSING THE U.S. STANDARD NO. 200 SIEVE. ALL FILL SHALL BE PREQUALIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO IMPORTING AND PLACING.

POST-INSTALLED ANCHORS

ANCHOR PRODUCTS APPROVED FOR USE ON THIS PROJECT ARE LISTED BELOW UNLESS OTHERWISE SPECIFIED IN ADHESIVE ANCHORS INTO CONCRETE SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED

> HILTI "HIT-HY 200" ADHESIVE (ICC-ES ESR-3 | 87) HILTI "HIT-RE 500-SD" ADHESIVE (ICC-ES ESR2322) EPCON "G5" ADHESIVE (ICC-ES ESR I 137) SIMPSON STRONG-TIE "SET-XP" ADHESIVE (ICC-ES ESR2508) SIMPSON STRONG-TIE "AT-XP" ADHESIVE (IAPMO-ES ER263)

EPCON "S7" ADHESIVE (ICC-ES ESR2308) ADHESIVE ANCHORS INTO MASONRY LINTELS OR GROUT FILLED CELLS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58: USE THE FOLLOWING (UNO):
 I. HILTI HIT HY 270 ADHESIVE (ICC-ES ESR4 | 43)

SIMPSON STRONG-TIE "SET" (ICC-ES ESR3342 SIMPSON STRONG TIE "SET-XP" (ICC PENDING) OVERHEAD AND/OR CONSTANT TENSION EPOXY ANCHOR INSTALLATIONS NOT SHOWN ON THE DRAWINGS SHALL NOT BE PERMITTED UNLESS EACH CONDITION IS REVIEWED AND APPROVED IN WRITING BY THE SER. INSTALL ANCHORS TO MEET THE REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS AND THE LOCATE. BY NON-DESTRUCTIVE MEANS. AND AVOID ALL EXISTING REINFORCEMENT PRIOR TO INSTALLATION OF

NCHORS. IF EXISTING REINFORCING LAYOUT PROHIBITS THE INSTALLATION OF ANCHORS AS INDICATED IN THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONALS IMMEDIATELY. INSTALL MASONRY ANCHORS IN SOLID MASONRY OR IN HOLLOW MASONRY THAT HAS BEEN GROUTED SOLID AT LEAST ONE COURSE ABOVE AND ONE COURSE BELOW THE ANCHOR, UON. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM STRUCTURAL ENGINEER OF RECORD (SER) PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
ANCHOR INSTALLER SHALL BE TRAINED BY THE MANUFACTURER ON PROPER INSTALLATION METHODS.

CARE SHALL BE EXERCISED TO AVOID CONFLICTS WITH EXISTING REINFORCING WHEN DRILLING HOLES. PILOT HOLES SHALL BE INSTALLED AS REQUIRED. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCES AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE OR ON THE STRUCTURAL DRAWINGS. EMBEDMENT SHALL BE THE MINIMUM SPECIFIED ON THE STRUCTURAL DRAWINGS.

. DESIGN OF METAL CONNECTED ROOF TRUSSES SHALL COMPLY WITH: 2020 FLORIDA BUILDING CODE.

TRUSSES SHALL BE DESIGNED FOR MINIMUM LIVE LOADS SHOWN IN THESE NOTES

TRUSS PLATE INSTITUTE'S DESIGN FOR LIGHT METAL PLATE CONNECTED ROOF TRUSSES. 2. PRE-ENGINEERED PRE-FABRICATED WOOD TRUSSES AND THEIR CONNECTIONS TO EACH OTHER SHALL BE DESIGNED FOR 20 PSF DEAD LOAD AND 20 PSF LIVE LOAD. 3. SIGNED AND SEALED SHOP DRAWINGS SHOWING TRUSS CONFIGURATION WITH MEMBER SIZES AND CONNECTIONS PESIGN LOADS, DURATION FACTORS AND ERECTION DETAILS MUST BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION. IF REQUIRED, SUBMIT COPIES TO THE BUILDING DEPARTMENT AT TIME OF PERMITTING. PRE-FABRICATED WOOD TRUSSES SHALL BE FABRICATED FROM SOUTHERN PINE (SPIB) KILN DRIED #2 OR BETTER FOR CHORDS AND #3 GRADE OR BETTER FOR WEBS. 5. NO WANE, SKIPS OR OTHER DEFECTS SHALL OCCUR IN THE PLATE CONTACT AREA OR SCARIFIED AREA OF WEB MEMBERS. PLATES SHALL BE CONNECTED WITH ONE REQUIRED EACH SIDE OF TRUSS.

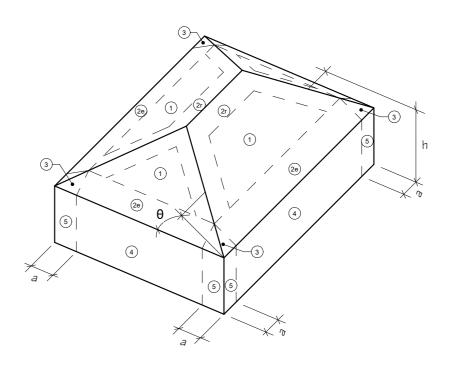
HANDLING, ERECTION AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE, LATEST EDITION, AND AS NOTED BELOW. AMOUNT AND TYPE OF TRUSS UPLIET STRAPPING SHALL BE VERIFIED W/ TRUSS ENGINEER'S SHOP DRAWINGS AND CALCULATION AND ADJUSTED ACCORDINGLY, AS NEEDED. PROPER ERECTION BRACING SHALL BE INSTALLED TO HOLD THE TRUSSES TRUE AND PLUMB AND IN SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE SOLIDLY NAILED IN PLACE TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM, ALL ERECTION AND PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES. ALL BRACING SHALL BE DESIGNED BY MANUFACTURER AND INDICATED ON SHOP DRAWINGS. CONTRACTOR SHALL COORDINATE WITH TRUSS

PREFABRICATED WOOD TRUSSES ARE TO BE INSTALLED IN ACCORDANCE WITH BRACING WOOD TRUSSES

COMMENTARY, "HANDLING AND ERECTING WOOD TRUSSES", AS PUBLISHED BY THE TRUSS PLATE INSTITUTE. PROVIDE

STRONG BACK BRACING AT TRUSSES PER REQUIREMENTS FROM TRUSS DESIGNER, COMPONENT-TO COMPONENT CONNECTIONS SHALL BE SPECIFIED ON PRE-ENGINEERED TRUSS DESIGN SUBMITTAL.

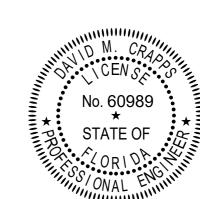
SHEATHING OR SPECIFIC BRACES AT PREDETERMINED LOCATIONS (AT DROPPED SUSPENDED CEILING). ALL



WINDLOAD PLAN DIAGRAM HIP ROOF

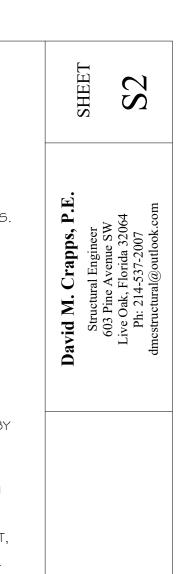
COMPONENTS AND CLADDING WIND PRESSURES ON HIPPED ROOF AND WALLS (PSF)												
ZONE	1,2,3	1	2 <i>e</i>	2r	3	2e Overhang	2r Overhang	3 Overhang	4		5	
TRIB AREA	(+)	(-)	(-)	(-)	(-)	(-)	(-)	(-)	(+)	(-)	(+)	(-)
10	26	-47	-65	-65	-65	-80	-80	-98	35	-38	35	-47
20	23	-42	-58	-58	-58	-75	-75	-81	34	-37	34	-44
50	18	-35	-50	-50	-50	-71	-71	-68	32	-35	32	-40
100	14	-29	-43	-43	-43	-68	-68	-59	30	-33	30	-37
200	14	-29	-35	-35	-35	-65	-65	-50	28	-32	28	-34
500	14	-29	-35	-35	-35	-65	-65	-50	26	-29	26	-29

FOR THE SELECTION OF WINDOW AND DOOR PRODUCTS, TABULATED VALUES SHOWN ARE NORMALLY MULTIPLIED BY O.6 PRIOR TO COMPARISON WITH THE POSITIVE AND NEGATIVE PRESSURE RATINGS PROVIDED IN EACH FLORIDA PRODUCT APPROVAL. IT IS RECOMMENDED THAT THE MANUFACTURER'S REPRESENTATIVE REVIEW THESE DRAWINGS FOR VERIFICATION.



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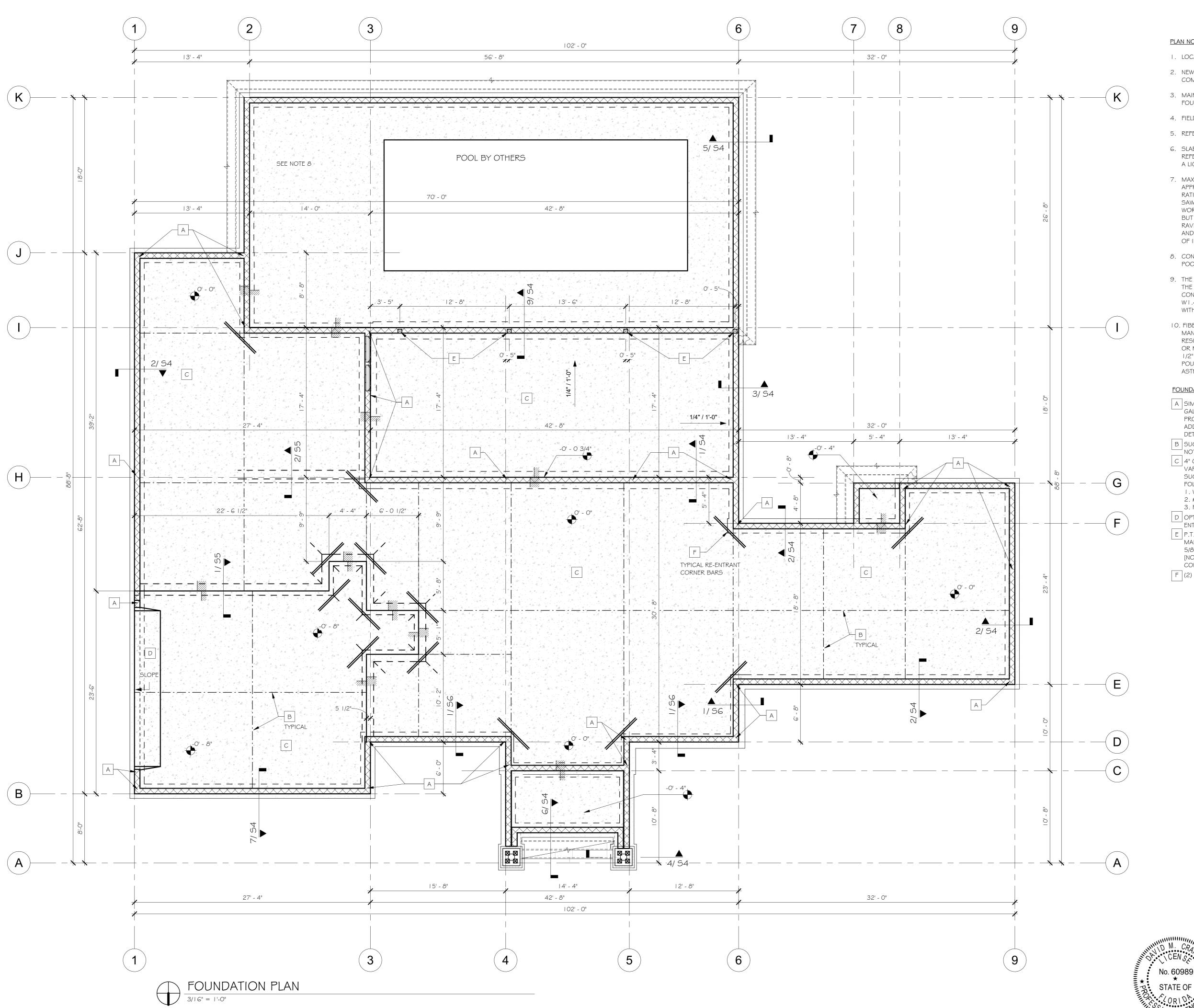


- A SIMPSON HTT4 HOLDOWN WITH 5/8" DIAMETER HOT DIPPED GALV. THREADED ROD. DRILL AND EPOXY (6" EMBEDMENT). PROVIDE NOT LESS THAN (2) 2X6 STUD PACK, UNLESS NOTED ADDITIONAL STUDS ARE ON PLAN OR HEADER SCHEDULE ON
- C 4" CONCRETE SLAB-ON-GRADE OVER 6-MIL POLYETHYLENE VAPOR RETARDER OVER COMPACTED AND TERMITE TREATED SUGRADE. REINFORCE SLAB WITH ONE OR MORE OF THE FOLLOWING: I. W2.9XW2.9-6"X6" WELDED WIRE MESH (SEE NOTE 9)
- 3. FIBER REINFORCED CONCRETE. (SEE NOTE 10)
- D OPTIONAL APRON FOR SURFACE DRAINAGE AT GARAGE
- E P.T. 6X6 COLUMN WITH SIMPSON CB566Z BASE AND MANUFACTURER'S I" HOT DIPPED GALV. STANDOFF, WITH (2) 5/8" DIAMETER HOT DIPPED GALV. THROUGH BOLTS. [NOTE: COLUMN BASE WILL NEED TO BE EMBEDDED IN THE
- CONRETE POUR.]

D. CRAPPS - P.E. # 60989 D. CRAPPS - P.E. # 60989 B. HARRIS DESIGNED BY: CHECKED BY: DRAWN BY:

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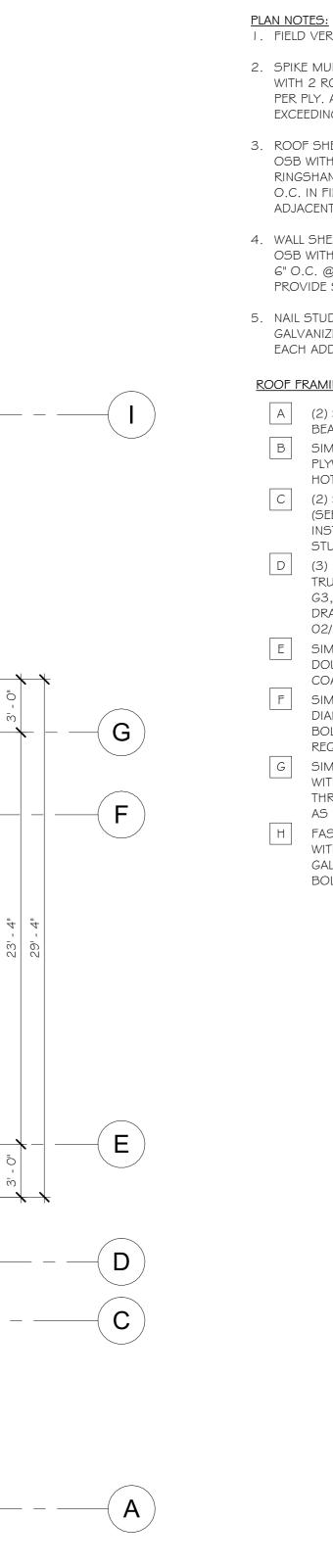
PLAN NOTES:

- I. LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION FOR NEW FOOTINGS.
- 2. NEW FOUNDATIONS SHALL BE ALLOWED TO SETTLE PRIOR TO COMMENCEMENT OF WOOD-FRAMED CONSTRUCTION.
- 3. MAINTAIN POSITIVE SLOPE FOR FINISHED GRADE AWAY FROM NEW FOUNDATIONS PER CODE.
- 4. FIELD VERIFY DIMENSIONS AS REQUIRED.
- 5. REFER TO ARCHITECTURAL FOR TERMITE TREATMENT OF SUB-GRADE
- 6. SLAB ELEVATIONS SHOWN ARE RELATIVE TO AN ARBITRARY SET REFERENCE DATUM OF O'-O" ACTUAL ELEVATIONS CAN BE PROVIDED BY A LICENSED SURVEYOR.
- 7. MAXIMUM SPACING OF SAWCUT CONTROL JOINTS IN SLAB SHALL BE APPROXIMATELY 15 FEET IN EACH DIRECTION, WITH LENGTH-TO-WIDTH RATIO OF 1.5 OR LESS AT EACH INDIVIDUAL RECTANGULAR AREA. SAWCUT DEPTH SHALL BE 25 PERCENT OF THE SLAB DEPTH. SAWCUT WORK SHALL BE PERFORMED THE SAME DAY AS THE SLAB PLACEMENT, BUT AFTER THE CONCRETE HAS CURED SUFFICIENTLY TO PREVENT RAVELING. EXTERIOR JOINTS SHALL BE FILLED WITH SILICONE SEALANT AND BACKER ROD (OR EQUAL). CONTRACTOR TO COORDINATE SEALING OF INTERIOR JOINTS WITH FLOOR FINISHES.
- 8. CONTROL JOINT LAYOUT AT POOL DECK TO BE COORDINATED WITH POOL CONFIGURATION
- 9. THE SIZE OF THE WELDED WIRE MESH INDICATED IS RECOMMENDED BY THE STRUCTURAL ENGINEER. HOWEVER, AT THE OWNER AND CONTRACTOR'S RISK, OF INCREASED CRACK DEVELOPMENT, 6X6-WI.4XWI.4 WELDED WIRE MESH MAY BE SUBSTITUTED IN ACCORDANCE WITH THE FLORIDA RESIDENTIAL CODE R506.2.4.2.
- 10. FIBER REINFORCED CONCRETE, IF SELECTED, SHALL BE CONCRETE MANUFACTURER'S FIBER MIX THAT COMPLIES WITH THE FLORIDA RESIDENTIAL CODE SECTION R506.2.4.2. MIX SHALL CONTAIN MICRO-OR MACRO-SYNTHETIC FIBER REINFORCEMENT, WITH FIBER LENGTHS OF 1/2" TO 2-1/4". DOSAGE AMOUNTS SHALL BE FROM 1.5 TO 3.0 POUNDS PER CUBIC YARD, AND SYNTHETIC FIBERS SHALL COMPLY WITH ASTM CIII6.

FOUNDATION PLAN KEYNOTE LEGEND

- DETAIL 2/S6.
- B SUGGESTED SLAB-ON-GRADE CONTROL JOINT LOCATION. SEE \Box NOTE 7.
- 2. #3 @ 18" O.C. EACH WAY
- F (2) #4X5'-0" LONG RE-ENTRANT CORNER BARS





24' - 8"

18' - 8"

CANTILEVERED TRUSSES

5' - 4"

32' - 0"

35' - 0"

13' - 4"

5" / 1'-0"

3/ 55

ROOF PLAN

В

AT ROOF TRUSS BEARING

5" / 1'-0"

12' - 7 3/4"

P.T. (4) 2X I 2 HEADER BELOW

COLUMN CAP

BEAM \ ||

HANGER

BELOW

12' - 8"

5/ S5

2X FRAMING

15' - 8"

59' - 8"

13' - 6"

P.T. (4) 2X12 HEADER BELOW

COLUMN CAP BELOW

12' - 8"

P.T. (4) 2X12 HEADER BELOW

PRE-ENGINEERED WOOD TRUSSES

INCORPORATE TRAY

CEILING INTO ROOF TRUSSES -

D ___

5" / 1'-0"

20' - 4"

₩ E

BEAM HANGER BELOW

13' - 4"

5" / 1'-0"

INCORPORATE ATTIC

STORAGE AREA INTO

ROOF TRUSSES -

27' - 4"

33' - 4"

3/ 55

 $\left(\mathsf{H}\right)$

B

(A)

14' - 0"

I NOTES:

FIELD VERIFY DIMENSIONS AS REQUIRED.
 SPIKE MULTIPLE PLY BEAMS (UP TO 14" DEEP) TOGETHER

WITH 2 ROWS OF 16d GALV. COMMON NAILS @ 12" O.C.,
PER PLY. ADD A THIRD ROW OF NAILS FOR BEAMS
EXCEEDING 14" DEPTH.

3. ROOF SHEATHING SHALL BE 1/2" APA RATED PLYWOOD OR OSB WITH 8d X 2-1/2" LONG HOT DIPPED GALV.
RINGSHANKED NAILS @ 6" O.C. @ PANEL EDGES AND 12"
O.C. IN FIELD OF PANEL. PROVIDE 1/8" GAP BETWEEN
ADJACENT PANELS AND/OR USE SIMPSON PSCL CLIPS.

4. WALL SHEATHING SHALL BE 1/2" APA RATED PLYWOOD OR OSB WITH 8d X 2-1/2" LONG GALV. RINGSHANKED NAILS @ 6" O.C. @ PANEL EDGES AND 12" O.C. IN FIELD OF PANEL. PROVIDE SOLID 2X BLOCKING @ ANY HORIZONTAL EDGES

5. NAIL STUD PACKS TOGETHER WITH 16d HOT-DIPPED GALVANIZED COMMON NAILS @ 6" O.C. STAGGERED PER EACH ADDITIONAL PLY.

ROOF FRAMING KEYNOTE LEGEND

A (2) SIMPSON HGA I O, ONE ON EACH SIDE OF HIP BEARING LOCATION.

B SIMPSON HCP4Z (ADD 1/2" X 1'-0" LONG PLYWOOD SPACER TO FIT, WITH 4-10d HOT-DIPPED COMMON NAILS, STAGGERED)

C (2) SIMPSON LSTA I 5 @ LVL BEARING LOCATION (SEE TRUSS LAYOUT SHOP DRAWING FOR LVL SIZE) INSTALL STRAPS ON FACE OF LVL AND EXTEND TO STUD WALL.

D (3) 2X6 STUD PACK BELOW (ALIGN WITH GIRDER TRUSS LOCATION, FOR TRUSS MARK NO. B8, C1, G3, AND K1. SEE TRUSS LAYOUT SHOP DRAWINGS, BY SEMINOLE TRUSSES, DATED 02/28/2023).

E SIMPSON HUCQG I 2Z-SDSG HANGER WITH DOUBLE BARRIER (CORROSION-RESISTANT)
COATED HEAVY DUTY STRONG DRIVE SCREWS

F SIMPSON CC6GHDG COLUMN CAP WITH (6) 5/8"
DIAMETER HOT-DIPPED GALVANIZED THROUGH
BOLTS. SAND / PLANE INSIDE BEAM PLY AS
REQUIRED TO FIT.

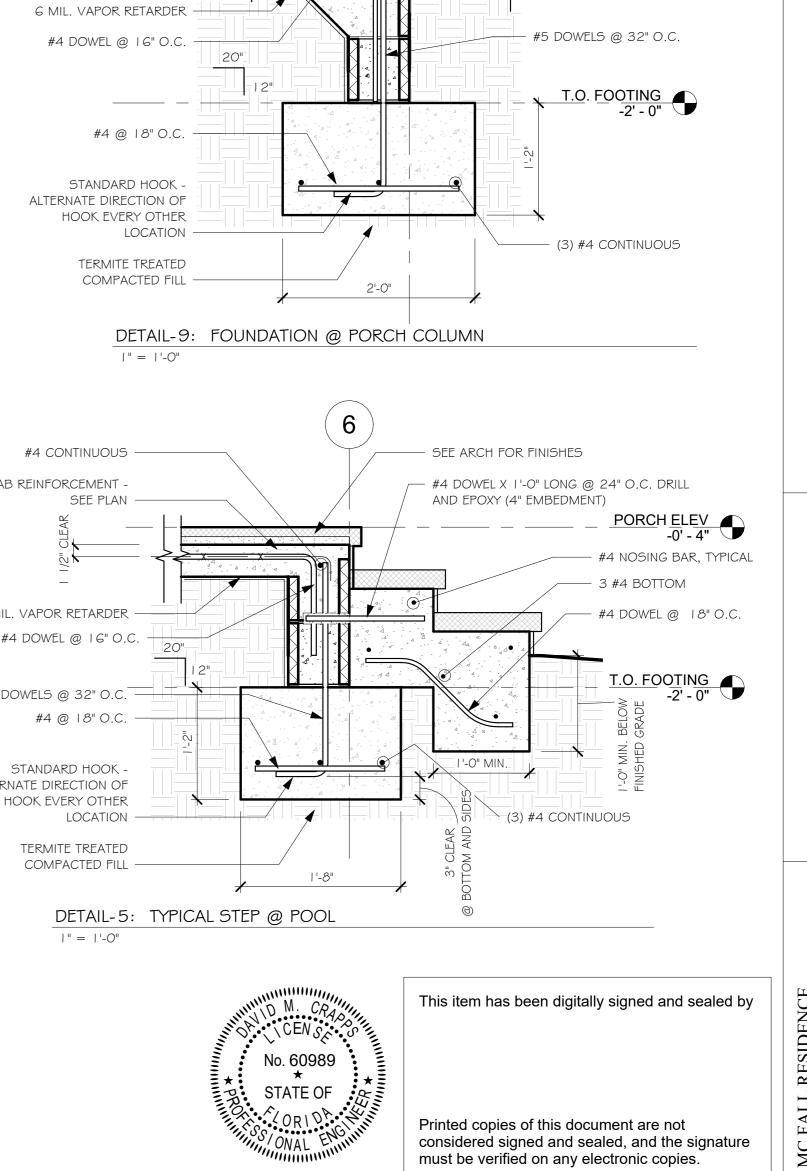
G SIMPSON ECCLRGGGHDG L-SHAPED COLUMN CAP WITH (6) 5/8" DIAMETER HOT-DIPPED GALVANIZED THROUGH BOLTS. SAND / PLANE INSIDE BEAM PLY AS REQUIRED TO FIT.

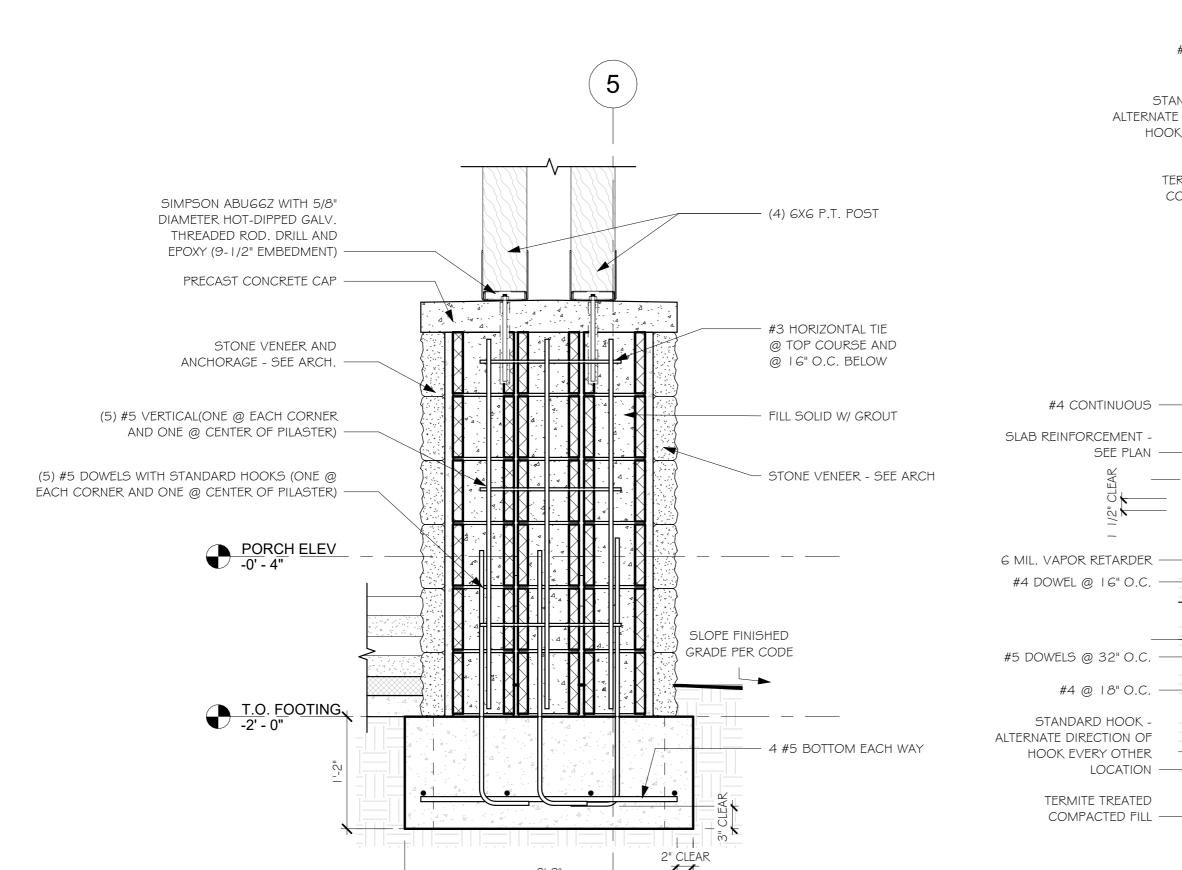
H FASTEN 4-PLY HEADER BEAM PLIES TOGETHER

WITH (2) ROWS OF 1/2" DIAMETER HOT DIPPED GALV. THROUGH BOLTS @ 24" O.C. COUNTERSINK BOLTS AS REQUIRED TO FIT WITH TRIM WORK.

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Н

2'-0"

BRICK VENEER - SEE ARCHITECTURALS

2X6 P.T. BOTTOM PLATE

#4 CONTINUOUS

6 MIL. VAPOR RETARDER

#5 DOWEL @ 16" O.C.

+ (3) #4 CONTINUOUS

#4 X 1'-8" LONG DOWEL WITH -STD HOOK @ 16" O.C.

1 2" BLOCK @ BOTTOM COURSE

- SLAB REINFORCEMENT -SEE PLAN

- #4 DOWEL X 1'-0" LONG @ 24" O.C.

DRILL AND EPOXY (4" EMBEDMENT)

2X6 STUDS @ 16" O.C. —

#4 CONTINUOUS -

SEE PLAN -

SLAB REINFORCEMENT -

6 MIL. VAPOR RETARDER -

#4 DOWEL @ 16" O.C. -

#4 @ 18" O.C. -

LOCATION

DETAIL- I: FOOTING @ HOUSE AND PORCH

DETAIL-4: TYPICAL FRONT PORCH PIER

| " = | '-O"

STANDARD HOOK -

HOOK EVERY OTHER

TERMITE TREATED

COMPACTED FILL -

ALTERNATE DIRECTION OF

2X6 P.T. BOTTOM PLATE. ATTACH W/ 1/2" DIAMETER HOT-DIPPED GALV.

SEE SHEET S4 DETAILS

GROUT ALL CELLS OF CMU

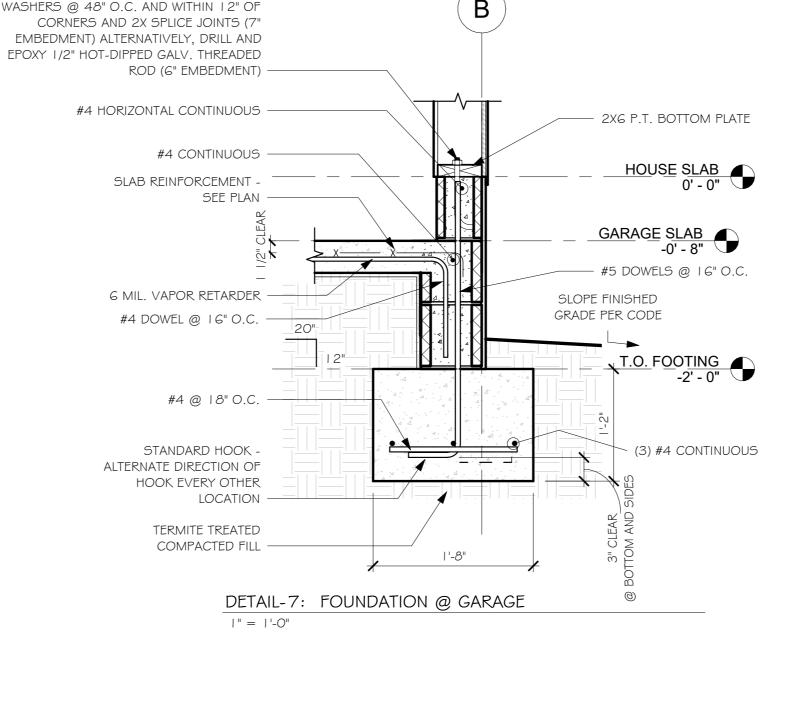
FOUNDATION WALLS SOLID

J-BOLT AND WASHERS @ 48" O.C. AND WITHIN 12" OF CORNERS AND

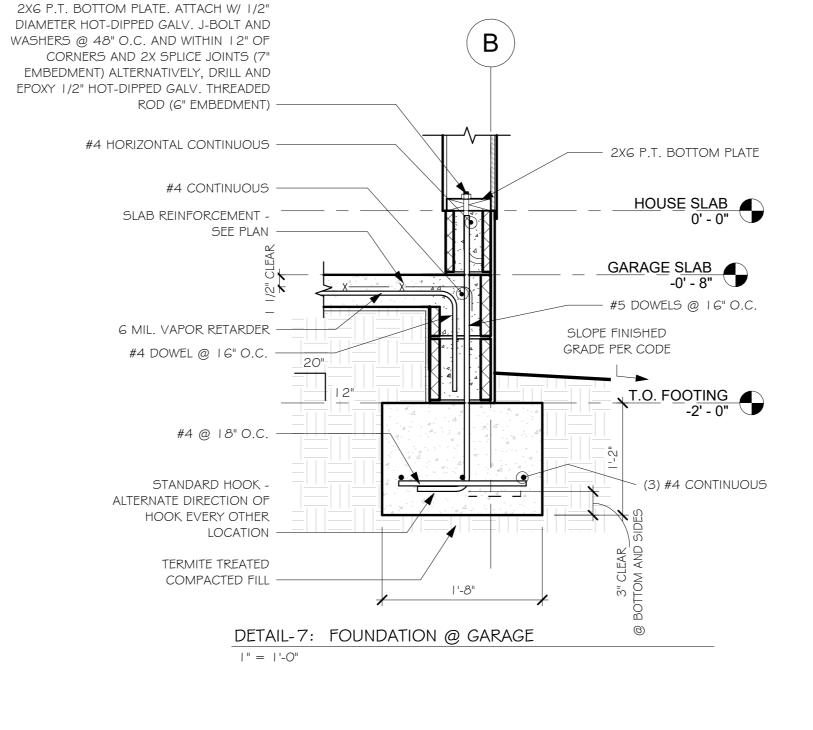
2X SPLICE JOINTS (7" EMBEDMENT) ALTERNATIVELY, DRILL AND EPOXY

1/2" HOT-DIPPED GALV. THREADED ROD (6" EMBEDMENT) -

| " = | '-O"



DETAIL-2: TYPICAL STEM WALL DETAIL



SEE ARCH FOR FINISHES

(3) #4

CONTINUOUS

- #4 DOWEL X 1'-2" LONG @ 24" O.C. DRILL AND EPOXY (4" EMBEDMENT)

PORCH ELEV -0' - 4"

T.O. FOOTING -2' - 0"

#4 NOSING BAR, TYPICAL

#4 DOWEL @ 18" O.C.

- 3 #4 BOTTOM

1'-8"

- 2X6 STUDS @ 16" O.C.

- 2X6 P.T. BOTTOM PLATE

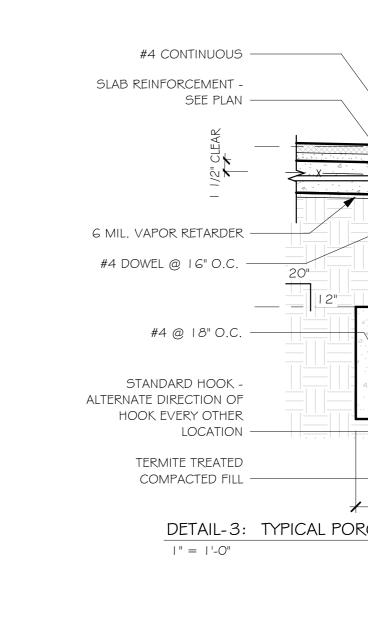
----- #5 DOWELS @ 16" O.C.

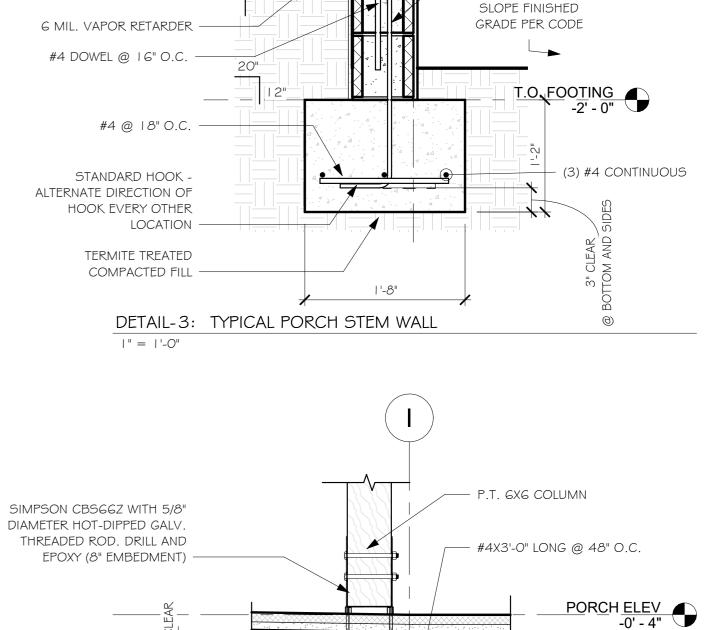
SLOPE FINISHED

GRADE PER CODE

HOUSE SLAB

- (3) #4 CONTINUOUS

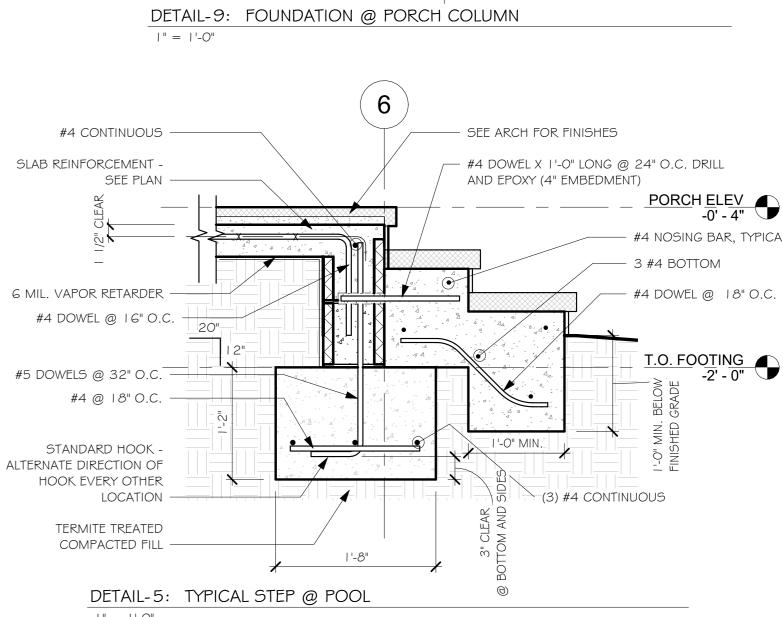


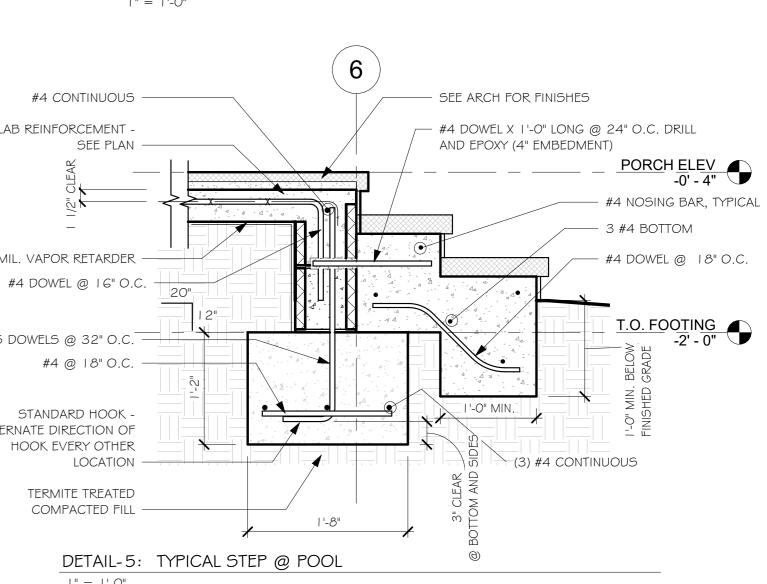


SEE ARCH FOR FINISHES

PORCH ELEV

#5 DOWELS @ 32" O.C.







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SLAB REINFORCEMENT -SEE PLAN

#4 CONTINUOUS —

6 MIL. VAPOR RETARDER -

#4 DOWEL @ 16" O.C.

#4 @ 18" O.C. —

LOCATION

STANDARD HOOK -

HOOK EVERY OTHER

TERMITE TREATED

COMPACTED FILL

| " = | '-O"

ALTERNATE DIRECTION OF

2X6 P.T. BOTTOM PLATE. ATTACH W/ 1/2" DIAMETER HOT-DIPPED GALV. J-BOLT AND WASHERS @ 48" O.C. AND WITHIN I 2" OF CORNERS AND 2X SPLICE JOINTS (7" EMBEDMENT) ALTERNATIVELY, DRILL AND EPOXY 1/2" HOT-DIPPED GALV. THREADED ROD (6" EMBEDMENT) -

#4 CONTINUOUS -

#4 DOWEL @ 16" O.C.

STANDARD HOOK -

HOOK EVERY OTHER

TERMITE TREATED COMPACTED FILL

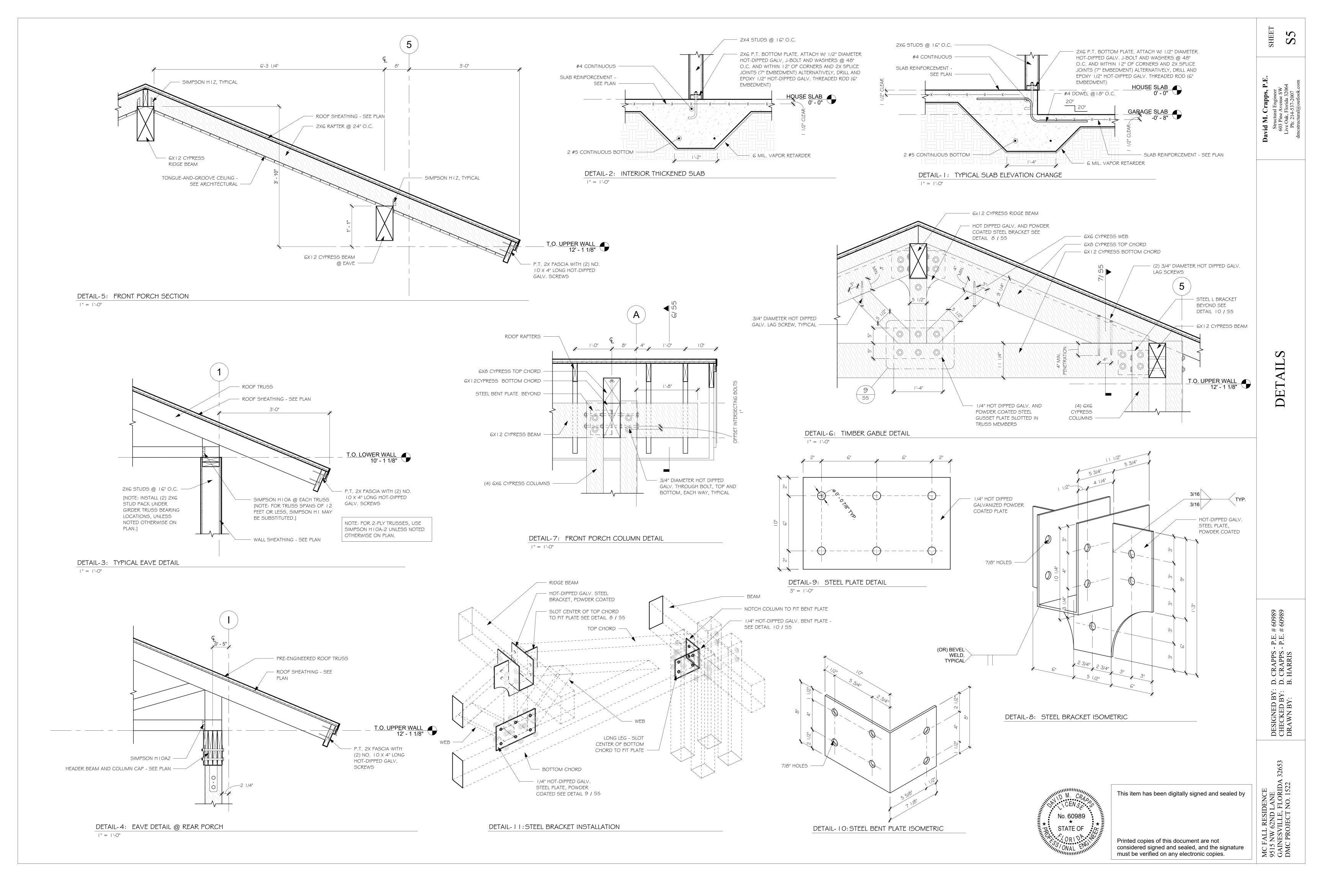
SEE PLAN

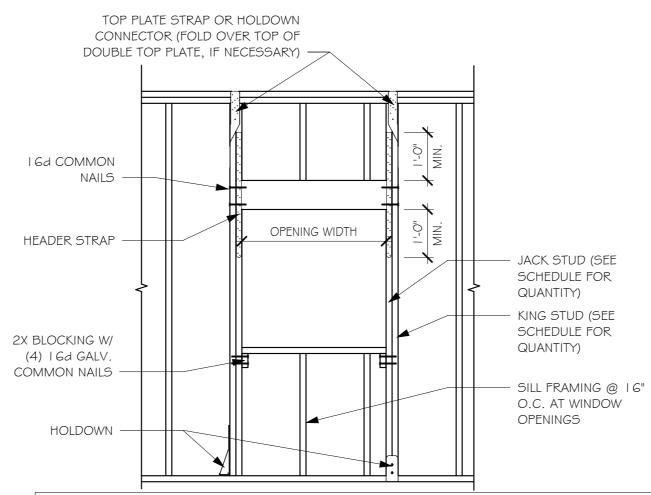
#4 @ 18" O.C. — 5

LOCATION

| " = | '-O"

DETAIL-6: FRONT STEP DETAIL





HEADER SCHEDULE							
MAXIMUM OPENING	HEADER	Jack Studs	Kıng Studs	Simpson Strong -Tie Connectors			
WIDTH	SIZE			Top Plate	Header	Holdown	
4' - O"	(3) 2x6	(1) 2x6	(1) 2x6	H6	LSTA30	DSPZ	
6' - O"	(3)2X8	(1) 2x6	(2) 2x6	H6	(2) LSTA30	DTT2Z*	
1 O1 - O11	(3)2X12	(2) 2x6	(2) 2x6	(2)H6	(2) LSTA30	DTT2Z*	
12" - O"	(3) -3/4" X - /4" LVL	(2) 2x6	(2) 2x6	(2) H6	(2) LSTA30	HTT4*	
18' - O"	(3) I-3/4" X I 6" LVL	(2) 2x6	(3) 2x6	(2) H6	(2) LSTA30	HTT4*	

* DRILL AND EPOXY HOT-DIPPED GALVANIZED THREADED ROD (1/2" DIAMETER FOR DTT2Z, 5/8" DIAMETER FOR HTT4), 6" EMBEDMENT.

NOTES:

- I. ALL LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER OR SPRUCE PINE FUR NO.2 GRADE OR STRONGER.
- USE PLYWOOD SPACERS BETWEEN HEADER PLIES AS REQUIRED TO MATCH STUD DEPTH.
 NAIL STUD PACKS TOGETHER WITH 1 GA GALV COMMON NAILS @6"O.C. STAGGERED.
- 4. INTERIOR NON-LOAD BEARING WALL HEADERS SHALL BE NOT LESS THAN CODE MINIMUMS.
- 5. USE 8d GALV. COMMON NAILS ON SIMPSON H6, FULLY NAILED.6. USE 10d GALV. COMMON NAILS ON SIMPSON CS16, FULLY NAILED.
- 7. SIMPSON CS I 6 MAY BE SUBSTITUTED FOR LSTA30.
- 8. INSTALL HEADER STRAPS FROM THE INSIDE FACE OF WALL. IF THE TABLE CALLS FOR 2 HEADER STRAPS AT 1 JACK STUD, INSTALL 1 STRAP ON INSIDE FACE OF WALL AND 1 STRAP ON THE EXTERIOR FACE OF WALL. STAGGER NAIL LOCATIONS AS REQUIRED.

DETAIL-2: HEADER SCHEDULE

1/2" = 1'-0"

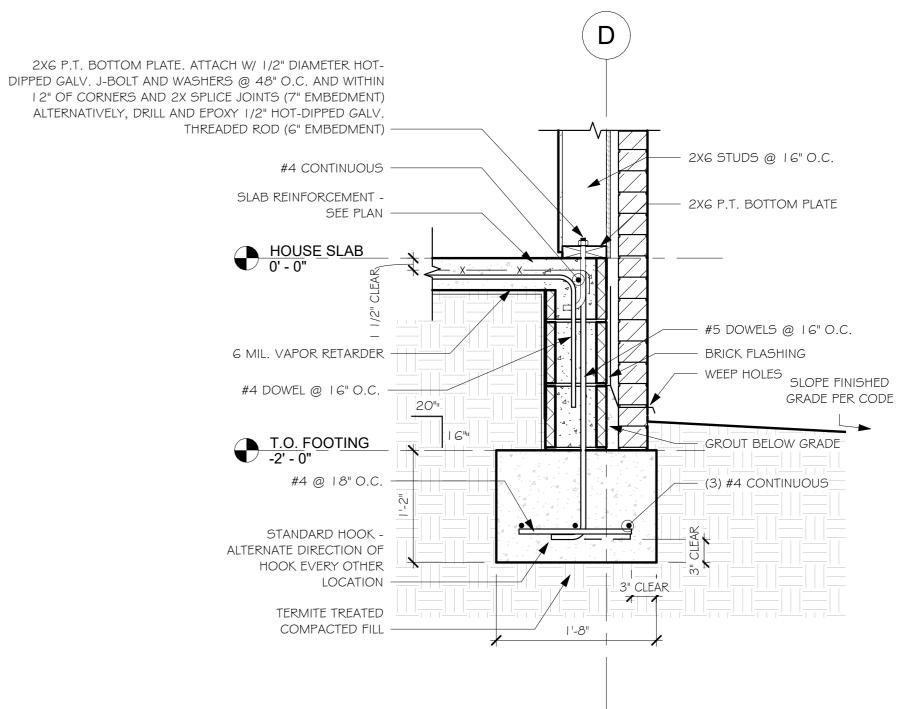
LOOSE LINTEL SCHEDULE						
CLEAR SPAN	SIZE	MINIMUM LENGTH OF BEARING AT EACH JAMB				
UP TO 9'-0"	L 4X4X1/4	8 INCHES				
UP TO 9'-0"	L 4X4X1/4	8 INCHES				

NOTES

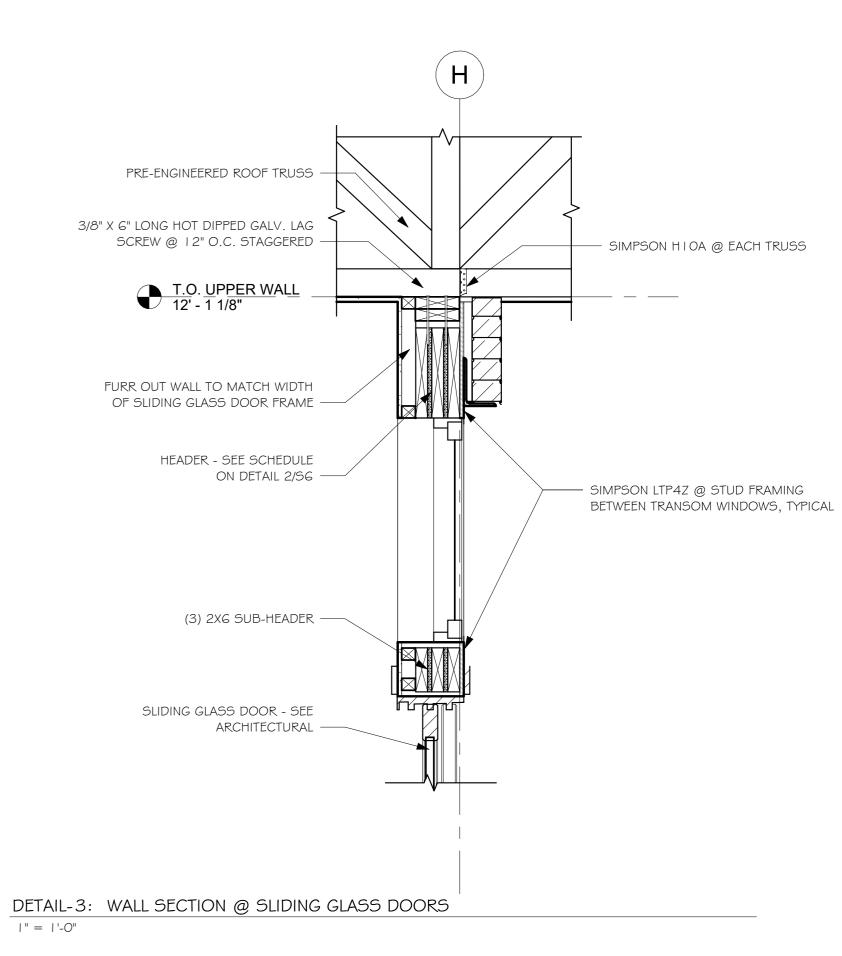
- I. ALL LOSE LINTELS SHALL BE HOT-DIPPED GALVANIZED
- DO NOT PLACE VERTICAL EXPANSION JOINT OVER WALL OPENINGS WITH LOOSE LINTELS
- 3. PROVIDE TEMPORARY SHORING OF LINTELS UNTIL THE MORTAR CURES TO AT LEAST 75% OF IT'S SPECIFIED DESIGN STRENGTH
- 4. BRICK TIES SHALL BE INSTALLED AT NOT MORE THAN 18" O.C. EACH WAY.

DETAIL-4: LOOSE LINTEL SCHEDULE

1/2" = 1'-0"



DETAIL- I: TPICAL STEM WALL @ BRICK



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DETAIL