# **TERMITE SPECIFICATIONS:**

- 1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL.(FBC 104.2.6)
- 2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALKS.(FBC 1503.4.4)
- 3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" OF THE BUILDING SIDE WALLS.(FBC 1503.4)
- 4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERING AND FINAL EARTH GRADE SHALL NOT BE LESS THAT 6 INCHES.
- EXCEPTION: PAINT OR DECORATIVE CEMENTATIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL.(FBC 1403.1.6)
- 5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE.(FBC 1816.1.1)
- 6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED AND FORMED.(FBC 1816.1.2)
- 7. BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATION OF TRAS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANNT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANC OF SOIL AFTER THE INITIAL TREATMENT.(FBC 1816.1.3)
- 8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETFATMENT IS REQUIRED.(FBC 1816.1.4)
- 9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUT BE REMOVED BEFORE EXTERIOR SOIL TREATMENT.(FBC 1816.1.5)
- 10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRAE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS.(FBC 1816.1.6)
- 11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBEAFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED.(FBC 1816.1.6)
- 12. ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT.(FB(1816.1.7)
- 13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPACY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRALEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS CITHE FLORIDA DEPARMENT OF AGRICULTURE AND CONSUMER SERVICES."(FBC 1816.7)
- 14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED ROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKE: TUB TRAY BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATRIAL. (FBC 2303.1.3)
- 15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIE WITHIN 15'-0": OF ANY BUILDING OR PROPOSED BUILDING.(FBC 2303.1.4)

Abv. A/C Adj. A.F.F. A.H.U. ALT. B.C. B.F. BM. BOT. B.P. Comp. Com	Air-Conditioner Adjustable Above Finished Floor Air Handler Unit Alternate Base Cabinet Bifold Door Book Shelf Beam Bottom Bypass door Bearing Circle Ceiling Column A/C Compressor Ceramic Tile Dryer Decorative	

D.W. Dishwasher Each E.W. Each Way Elec. Electrical Elev. Elevation

Ext. Exterior Exp. Expansion

F.B.C. Fin. Flr. F.G. Flr. Fdn. Flr. Sys. F.Pl. Ft. Ftg. FX G.C. Hdr. Hgt. Hgt. K/Wall K.S. Lav. L.F. L.T. Max M.C. MDP Mfgr. Micro. Mir. Mono N.T.S.	Florida Bldg. Code Finished Floor Fixed Glass Floor Foundation Floor System Fireplace Foot / Feet Footing Fixed Galvanized General Contractor Ground Fault Interrupter Girder Truss Header Height Hose Bibb Interior Kneewall Knee Space Laundry Lavatory Linear Ft. Laundry Tub Masonry Maximum Medicine Cabinet Master Distribution Panel Manufacturer Microwave Minimum Microlam Mirror Monolithic Not to Scale	

Opn'g. Opt. Pc. Ped. P.L. PLF Plt. Ht. Plt Sh. PSF P.T. Pwd. Rad. Ref. Reg'd. Rm. Rnd. R/SH SD. S.F. Sh.	Opening Optional Piece Pedestal Parallam Pounds pernear foot Plate Heigh' Plant Shelf Pounds perquare foot Pressure Trated Powder Ron Radius Refrigerator Required Room Round Rod and Shf Smoke Detetor Square Ft. Shelves Sheet
S.L. S.P.F. Sq. S.Y.P. Temp. Thik'n. T.O.B. T.O.M. T.O.P. Trans. Typ. UCL U.N.O. VB Vert. V.L. VTR W W/ W/C W.A. Wd WP	Side Lights Spruce Pine ir Square Southern Yow Pine Tempered Thicken Top of Block Top of Mascry Top of Plate Transom Wdow Typical Under Cabiet Lighting Unless Note Otherwise Vanity Base Vertical Versalam Vent througRoof Washer With Water Close Wedge Ancer Wood Water Proof

PROJEC LOCATION

Lot 2 CannoCreek Place

# **STRUCTURAL NOTES:**

## FOUNDATIONS

SOIL TO BE COMPACTED TO AT LEAST 95% OF MAX, DRY DENSITY AS DETERMINED BY ASTM - 1557 ( MODIFIED PROCTOR )

### FOUNDATION INSPECTIONS

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON SITE FOR THE BUILDING FOREST PRODUCTS ASSOCIATION. INSPECTORS USE, OR ALL PROPERTY MARKERS SHALL BE 3. TRUSS MEMBERS AND CONNECTIONS SHHALL BE PROPOR-EXPOSED AND A STRING STRECHED FROM MARKER TO MARKER TO VERIFY REQUIRED SETBACKS.

## CAST IN PLACE CONCRETE

- 1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI, A SLUMP OF 6" PLUS OR MINUS 1", AND HAVE 2 TO 5% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.63
- 2. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 40. 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 BE BENT 1'-0" AROUND CORNERS OR CORNER BARS WITH A 2'-0" 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

# MASONRY WALL CONST.

1 1/2" TO FORM

- 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 (fm = 1350 PSI)
- 2. MORTAR SHALL BE TYPE "M" OR "S", CONFORMING TO ASTM C270.
- COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH 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 PAPER AS A STOP IS PROHIBITED.

# WOOD CONSTRUCTION

- 1. WOOD CONSTRUCTION SHALL CONFORM TO THE NFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST 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 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.

# WOOD FRAMING INSPECTION

ALL PLUMBING, ELECTRICAL, AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING FRAMING INSPECTION.

# PREFABRICATED WOOD TRUSSES

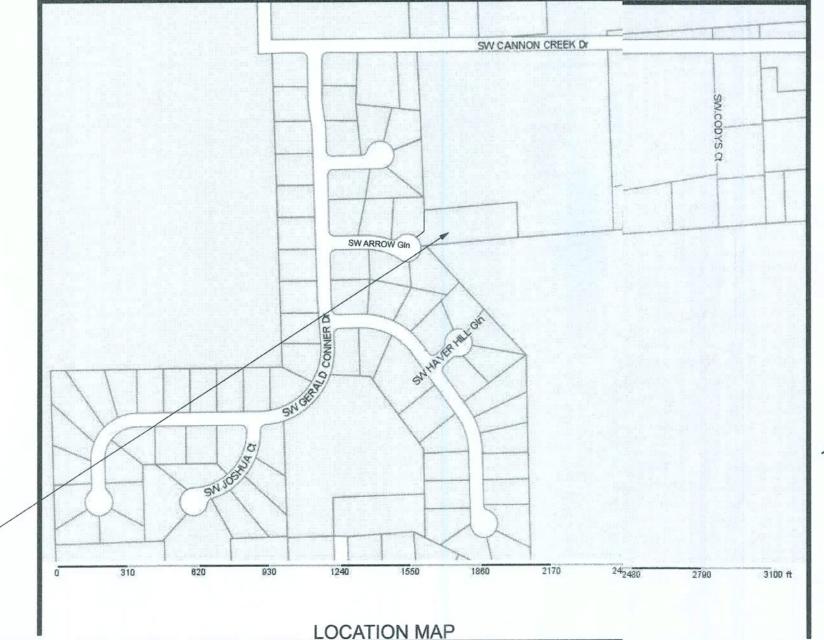
- 1. ALL PREFABRICATED WOOD TRUSSES SHHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALL S OR BEAMS WITH HURRICANE CLIPS OR ANCHORS.
- 2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITIONN OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL
- TIONED ( WITH A MAXIMUM ALLOWABLE SSTRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHS TAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL [ DEAD LOAD. 4. BRIDGING FOR PRE-ENGINEERED TRUSSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURGER UNLESS NOTED ON THE PLANS.
- 5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BBY THE TRUSS MANUFACTURER IN ACCORDANCE WITH I THE FOLLOWING **DESIGN LOADS:**
- 6. DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PERR THE TRUSS PLATE INSTITUTE TPI LATEST EDITION.
- 7. PRE-ENGINEERED WOOD TRUSSES SHAILL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES . SUBMITTALS SSHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING & MEMBER SIZES, BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND AND PERMANENT BRACING AND/OR BRIDDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENNT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALEED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SSUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICICATION.
- 8. THE TRUSS MANUFACTURER SHALL DETITERMINE ALL SPANS WORKING POINTS, BEARING POINTS, ANG SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALLL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO ) TRUSS HANGERS.

#### UPLIFT CONNECTORS

1. UPLIFT CONNECTORS SUCH AS HURRICA, ANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONL'LY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSEDD TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF TITHESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLICIED. PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCCATION OF THESE WALLS

# FIELD REPAIR NOTES

- 1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSSM16 TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TITENS TO THE BONND BEAM BLOCK AND (7) 10d TO THE TRUSS FOR UPLIFT TS OF 1000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASSIS
- PREVENT THE FLOW GROUT INTO CELLS BELOW. THE USE OF FELT 2. MISSED "J" BOLTS FOR WOOD BEARINGG WALLS MAY BE SUB-STITUTED W/ 1/2" DIA. ANCHOR BOLTS \ SET IN 3/4" DIA. X 6" DEEP UNITEX "PROPOXY" 300 ADHESIVVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATITIONS ( OR 1/2" X 6" RAWL STUD EXPANSION ANCHORS. )
  - 3. REGARDING MISSED REBAR IN VERTICAL FILLED G CELLS: DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOC, CATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBELEDDEMENT EPOXY (SIMPSON "EPOXY TIE SET", OR HILTI " 2 PIPART" EMBEDDMENT EPOXY), MIXED PER MANUFACTURIRER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEB BRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRU; USHING AND AND USING COMPRESSED AIR PRIOR TO APPLYINING THE EPOXY ALLOW THE EPOXY TO CURE TO MANUFACTURER'R'S SPECIFICATIONS. THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM
  - 4. HURRICANE STRAPS MAY BE SUBSTITUTED WITH 4 A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT T VALUE IN THE FIELD WITHOUT VERIFICATION, PROVIDED ALL MAIANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.
  - 5. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1/1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT ( BAR DOES NOT HAVE TO BE CONT. TO FOOTING)



# STRUCTURAL DESIGN CRITERIA

FLORIDA BUILDING CODE, 2017
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)
SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 301-14)
BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-14)
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 EDITION

APA PLYWOOD DESIGN SPECIFICATION 20 PSF (REDUCIBLE) 40 PSF RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED 40 PSF BALCONIES 40 PSF

LIGHT PARTITIONS (DEAD LOAD), U.N.O. WIND LOADS BASED ON FBC, SECTION 1609 WIND LOADS: WIND VELOCITY: 125 M.P.H., USE FACTOR: 1.0 (F.B.C.)

ALL CONCRETE UNLESS OTHERWISE INDICATED CONCRETE PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY STRENGTH (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS) @ 28 DAYS

WELDED WIRE FABRIC SHALL CONFORM TO REINFORCING: ALL REINFORCING BARS ALL STIRRUPS AND TIES

CODES:

LIVE LOADS:

TRUSSES:

ASTM A615-40 40,000 PSI ASTM A615-40 40,000 PSI

ASTM A185

20 PSF

3000 PSI

3000 PSI

ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 PSI CONCRETE MORTAR TYPE "S" 1800 PSI MASONRY CONCRETE GROUT 3000 PSI UNITS: CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION

ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O. STRUCTURAL SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL: ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307

BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O. WOOD FRAMING: 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. **DESIGN LOADS: WOOD ROOF** 20 PSF

TOP CHORD LIVE

10 PSF TOP CHORD DEAD LOAD: 10 PSF BOTTOM CHORD DEAD LOAD: 40 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. **DESIGN LOADS:** WOOD FLOOR 15 PSF DEAD LOAD:

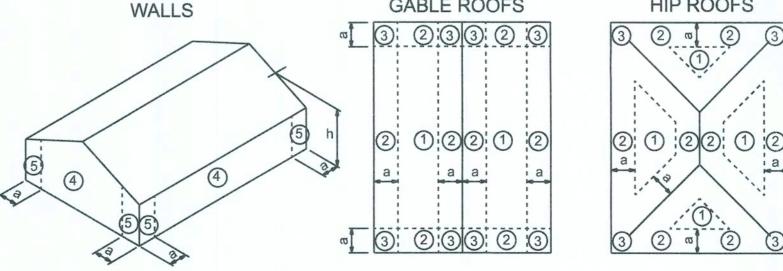
TRUSSES: 40 PSF LIVE LOAD: 55 PSF

ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 2,000 PSF SOIL BEARING SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS VALUE: 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.

BASIC WIND SPEED	125 MPH								
IMPORTANCE FACTOR				-	1.00				
BUILDING CATEGORY					11				
EXPOSURE	В								
INTERNAL PRESSURE COEFFICIENT	+/- 0.18								
TYPE OF STRUCTURE	ENCLOSED								
MWFRS PER ASCE 7-10	Zone 1 - Windward Wall					+26.5 psf			
DESIGN WIND PRESSURES WORST CASE	Zone 2 and 3 - Windward and Leeward Roof					Roof	-29.1 psf		
WORST CAGE	Zone 2 - Sloped Windward Roof						-2	9.1 psf	
	Zone								
	3 - Leeward Roof					-29.1 psf			
	4 - Leeward Wall					-18.6 psf			
	5 & 6 Sidewalls						-23.9 psf		
	Zone 7 - Overhang					+20.9 psf			

			-						0.0 psi	
COMPONENTS AND CLADDING PER			10	) sf	20	) sf	50	sf	100	) sf
ASCE 7-10 DESIGN WIND PRESSURES	Roof		pos.	neg.	pos.	neg.	pos.	neg.	pos.	neg.
WORST CASE (PSF)	Rooi	Zone 1	18.06	-28.70	16.50	-27.88	14.34	-26.84	12.78	-30.16
		Zone 2	18.06	-49.96	16.50	-53.12	14.34	-46.96	12.78	-44.27
		Zone 3	18.06	-73.9	16.50	-69.14	14.34	-62.74	12.78	-66.88
	Wall	Zone 4	31.38	-34.04	29.94	-32.62	28.08	-30.76	29.72	-29.32
	vydii	Zone 5	31.38	-42.00	29.94	-39.20	28.08	-35.40	26.72	-32.62



a: 10% of least horizontal dim. or 0.4h, whichever is smaller, but not less than

either 4% of least horizontal dimension or 3 ft. h: mean roof height, in feet.

COMPONENTS AND CLADDING

# INDEX OF SHEETS

- 1		
	SHEET NUMBER	DESCRIPTION
	A-1 A-2	GENERAL NOTES SHEET SITE PLAN
	A-3 A-4	FLOOR PLAN ELEVATIONS
	A-5 A-6	FOUNDATION PLAN ROOF PLAN
	A-7 A-8	FRAMING DETAILS SHEARWALL DETAILS
100000000000000000000000000000000000000	A-9	ELECTRICAL PLAN

0 Z Z

0

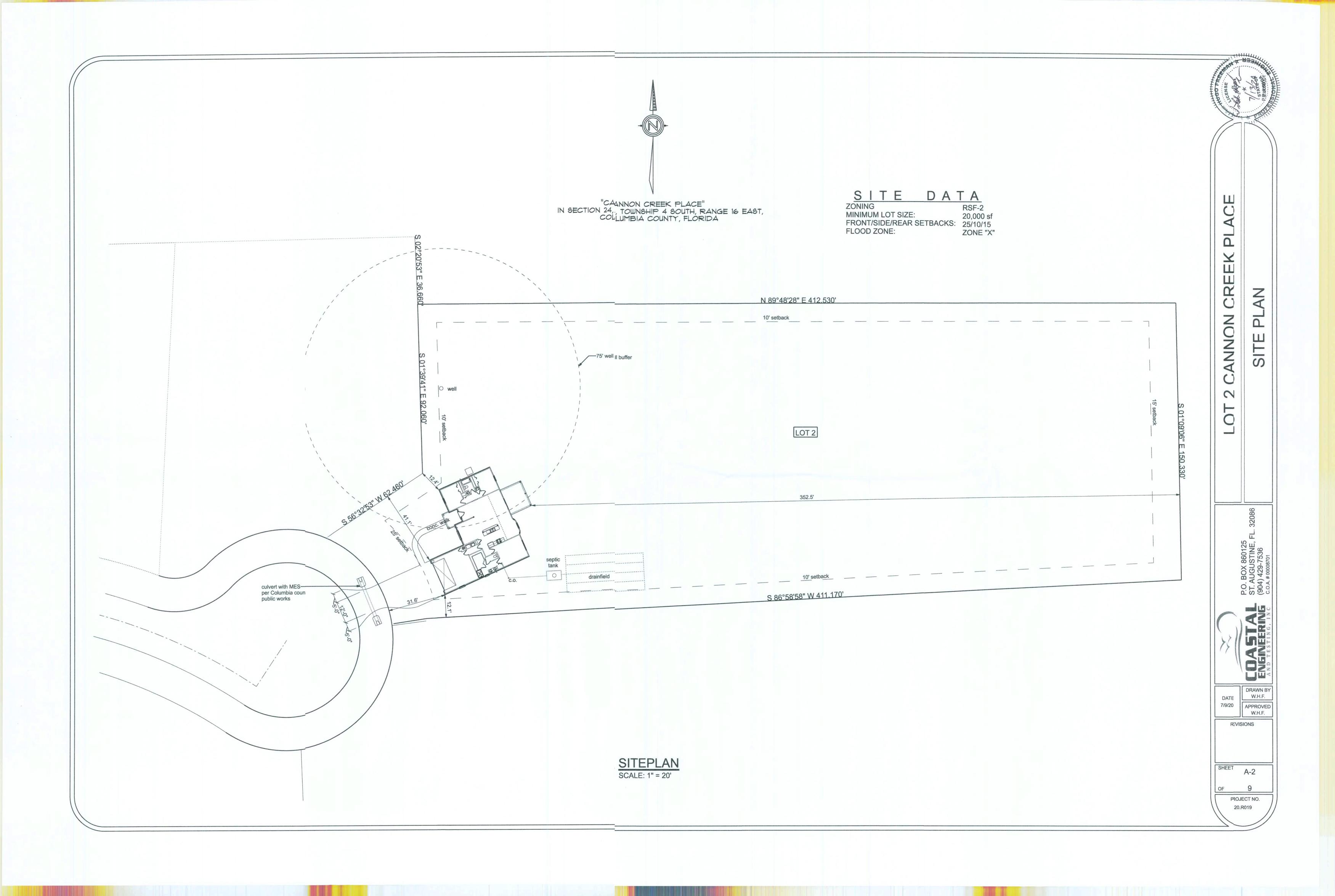


DRAWN BY W.H.F. DATE 7/9/2 APPROVED W.H.F.

REVISIONS

A-1

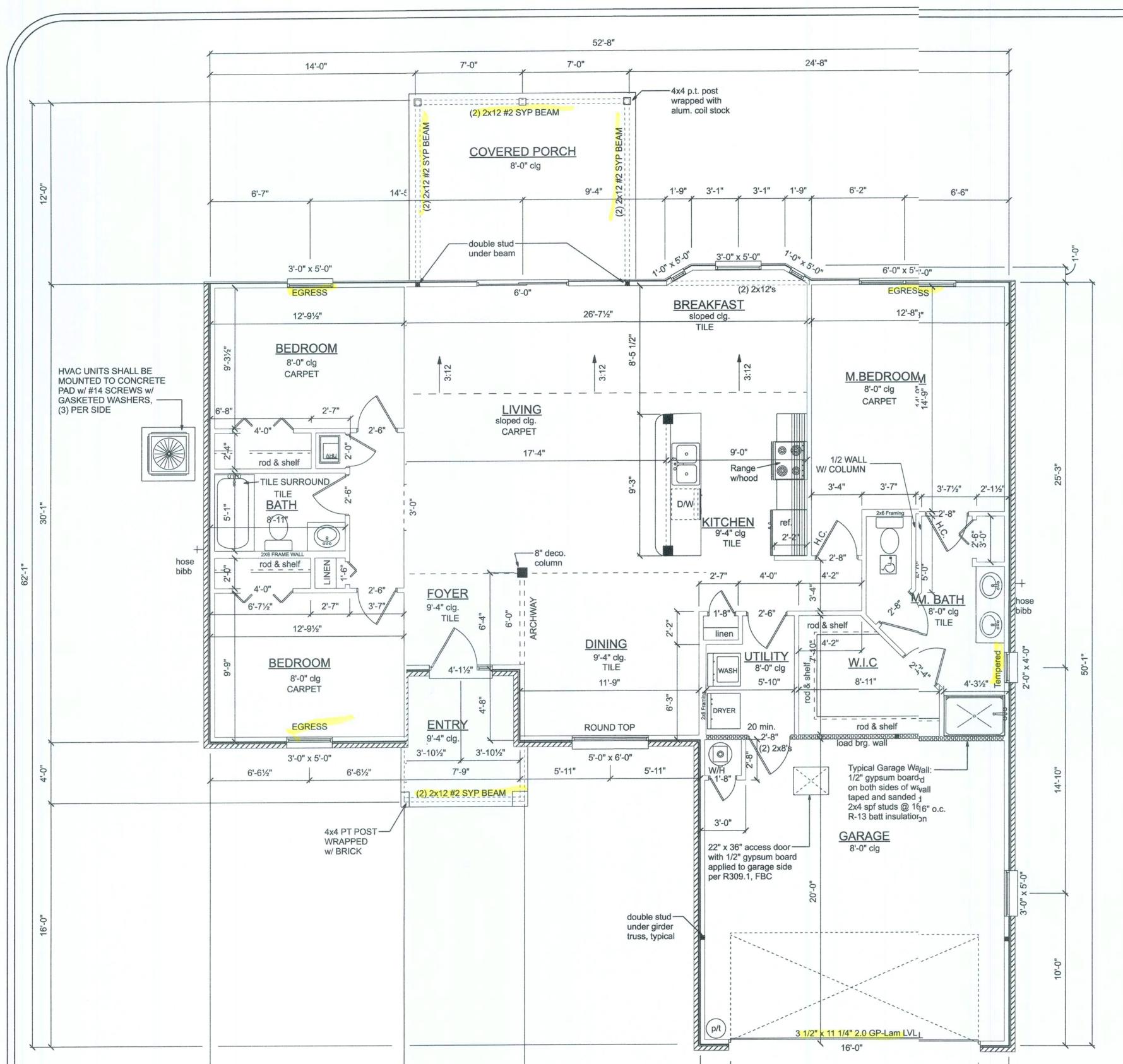
PROJECT NO. 20.R019



REVSIONS

SHEET A-3

PROJECT NO. 21.R019



EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND BEAR AN AAMA OR WDMA OR OTHER APPROVED LABEL IDENTIFYING THE

MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT EVALUATION ENTITY TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATION:

ANSI/AAMA/NWWDA 101/IS2 2/97

THE CONSTRUCTION SHALL BE TESTED IN ACCORDANCE WITH ASTM E 330, STANDARD TEST METHODS FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS, CURTAIN WALLS, AND DOORS BY UNIFORM STATIC AIR PRESSURE.

PRODUCT CODE	SIZE	COUNT
72x80 sliding french 2-MODIFIED	6'-0"	1
1668 BF-MODIFIED	1'-6"	1
2668 BF-MODIFIED	2'-6"	1
4068-2 BF-MODIFIED	4'-0"	2
30x80 colonial a 1-MODIFIED	2'-6"	2
1868-MODIFIED	1'-8"	2
2068-MODIFIED	2'-0"	1
2468-MODIFIED	2'-4"	1
2668-MODIFIED	2'-6"	2
2868-MODIFIED	2'-8"	2
192X84 - 2 PANEL-MODIFIED	16'-0"	1
32X80 COLONIAL A 1	2'-8"	1
24x48 double hung 1-MODIFIED	2'-0" x 4'-0"	1
36x60 single hung 1-MODIFIED	3'-0" x 5'-0"	1
3660 Renaissance-MODIFIED	5'-0" x 6'-0"	1
SH 3050	3'-0" x 5'-0"	1
SH 4050-MODIFIED	3'-0" x 5'-0"	2
60X60 SINGLE HUNG 2-MODIFIED	6'-0" x 5'-0"	1
SH 2050-MODIFIED	1'-0" x 5'-0"	2
2668-MODIFIED	2'-8"	1

**EMERGENCY EGRESS:** 

EVERY BEDROOM SHALL HAVE NOT LESS THAN ONE OUTSIDE WINDOW FOR EMERGENCY RESCUE THAT COMPLIES WITH THE FOLLOWING: 1. SUCH WINDOWS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND SHALL PROVIDE A CLEAR OPENING OF NOT LESS THAN 20 INCHES IN WIDTH, 24 INCHES IN HEIGHT, AND 5.7 SQFT IN AREA. 2. THE BOTTOM OF THE OPENING SHALL BE NOT MORE THAN 44 INCHES ABOVE THE FLOOR, AND ANY LATCHING DEVICE SHALL BE CAPABLE OF BEING OPERATED FROM NOT MORE THAN 54 INCHES ABOVE THE

FINISHED FLOOR. 3. THE CLEAR OPENING SHALL ALLOW A RECTANGULAR SOLID, WITH A WIDTH AND HEIGHT THAT PROVIDES NOT LESS THAN THE REQUIRED 5.7 SQFT OPENING AND A DEPTH NOT LESS THAN 20 INCHES, TO PASS FULLY THROUGH THE OPENING.

4. SUCH WINDOWS SHALL BE ACCESSIBLE BY THE FIRE DEPARTMENT AND SHALL OPEN INTO AN AREA HAVING ACCESS TO A PUBLIC WAY.

THE MINIMUM NATURAL VENTILATION AREA REQUIRED FOR

GARAGES SHALL BE 4 PERCENT OF THE FLOOR AREA BEING VENTILATED. THE MINIMUM MECHANICAL VENTILATION FOR GARAGES SHALL BE 100 CFM PER CAR.

DUCTS THAT EXHAUST CLOTHES DRYERS SHALL NOT PENETRATE OR BE LOCATED WITHIN ANY FIREBLOCKING OR FIRE RATED WALL OR CEILING ASSEMBLY.

CONDENSATE WASTE AND DRAIN LINE SIZE SHALL BE NOT LESS THAN 3/4" INTERNAL DIAMETER AND SHALL NOT DECREASE IN SIZE FROM THE DRAIN PAN CONNECTION TO THE PLACE OF CONDENSATE DISPOSAL.

DUCT PENETRATION:

ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage sheet steel or other approved material and shall have no openings into the garage.

OPENING PROTECTION:

openings from a private garage directly into a room used for sleeping purposes shall not be permitted. other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8" in thickness, solid or honeycomb steel doors not less than 1 3/8" thick, or a 20-minute fire rated doors.

SEPARATION REQUIRED:

the garage shall be separated from the residence and its attic area by not less than 1/2" gypsum board applied to the garage side. garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8" Type X gypsum board or equivalent. where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than 1/2" gypsum board or equivalent.

**CONSTRUCTION DOCUMENTS:** 

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

DO NOT SCALE THESE PLANS:

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMATIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

**CHANGES TO PLAN SETS:** 

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THES PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

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

2'-0"

11'-61/2"

52'-8"

8'-4"

12'-91/2"

NAME

Heated Space

Garage Porch

Total

AREA 1600 sq ft.

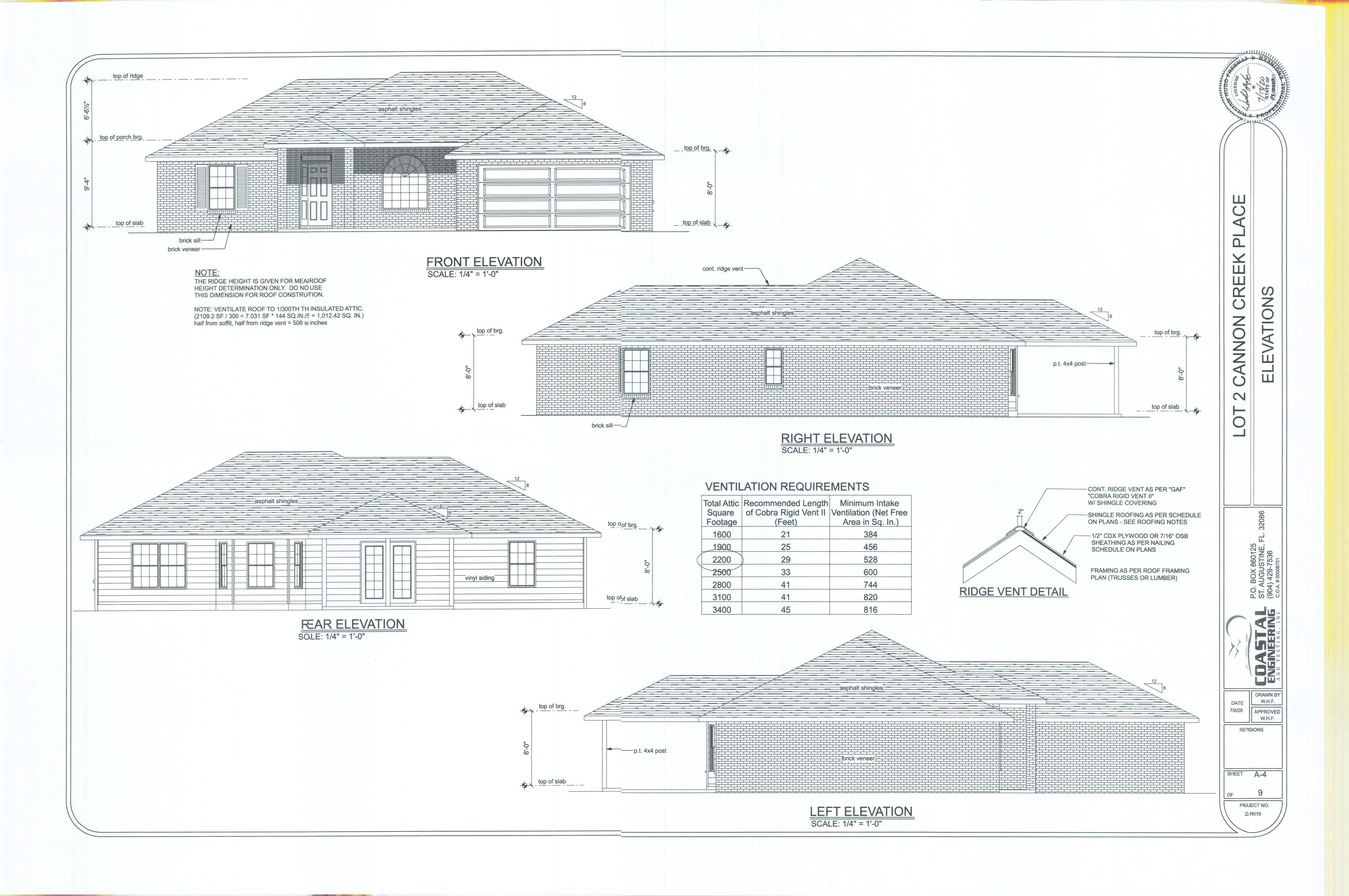
283 sq ft.

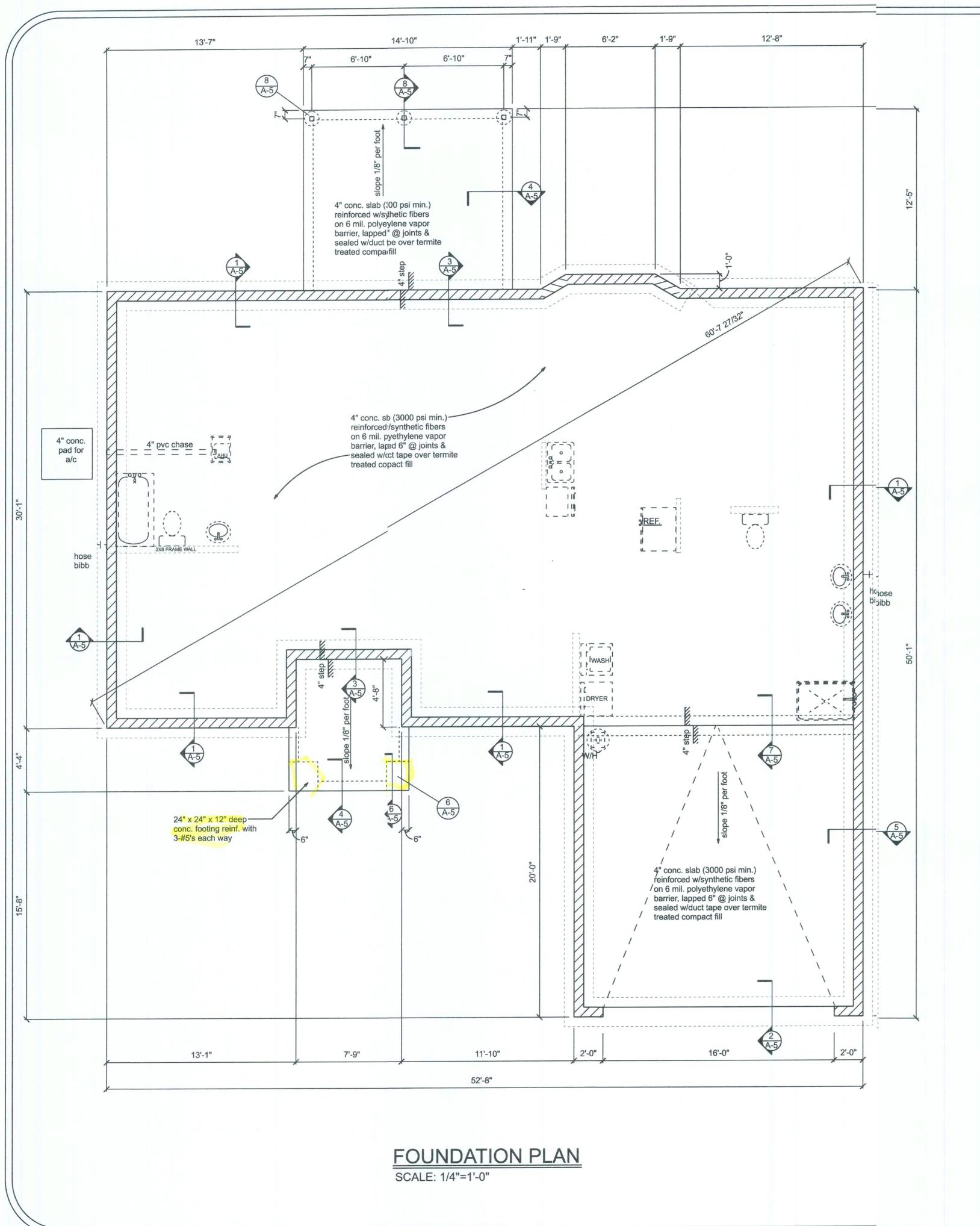
2,283 sq ft.

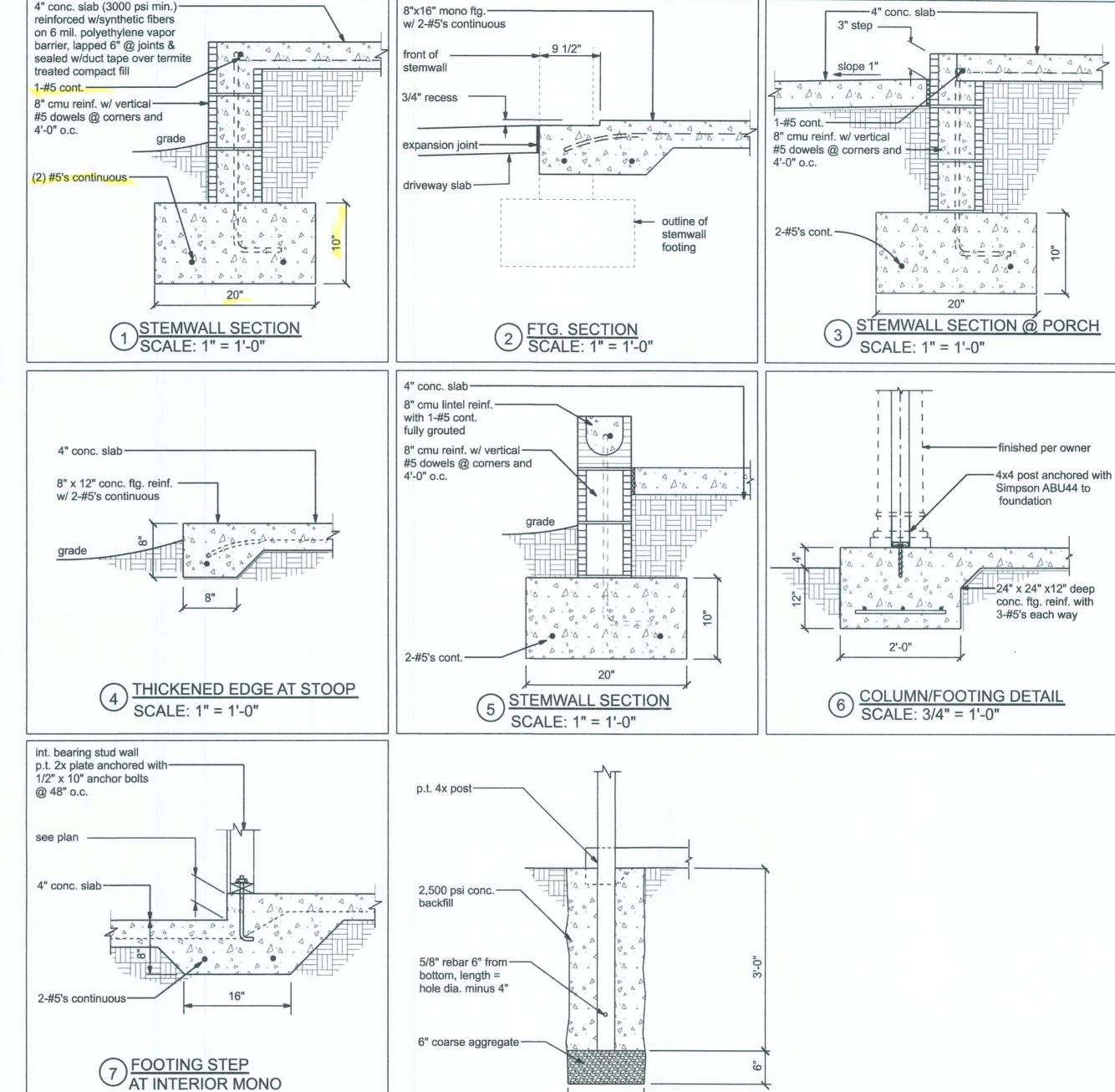
16'-0"

20'-0"

2'-0"







# **FOUNDATION NOTES:**

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

**GALVANIZATION:** METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

#### REINFORCING STEEL: THE REINFORCING STEEL SHALL BE MINIMUM GRADE 60

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED: 1. ALL REINFORCEMENT IS BENT COLD,

2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE

EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

# COVER OVER REINFORCING STEEL FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS

3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER

# REAR POST SECTION

SCALE: 3/4" = 1'-0"

18"

# NOTE:

CONCRETE SLABS, WALKS, DRIVES AND PATIOS CAN DEVELOP HAIRLINE CRACKS THAT WILL NOT AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING. THERE IS NO KNOWN METHOD OF ELIMINATING THIS CONDITION, WHICH IS CAUSED BY THE CHARACTERISTICS OF EXPANSION AND CONTRACTION THAT OCCURS IN ALL CONCRETE APPLICATIONS. IT DOES NOT AFFECT THE STRENGTH OF THE BUILDING, AND IT IS NOT A CONDITION COVERED BY ANY WARRANTY.

 $\alpha$ NAM 2

V

1

A

OUNDATION



DRAWN BY W.H.F. DATE APPROVED W.H.F.

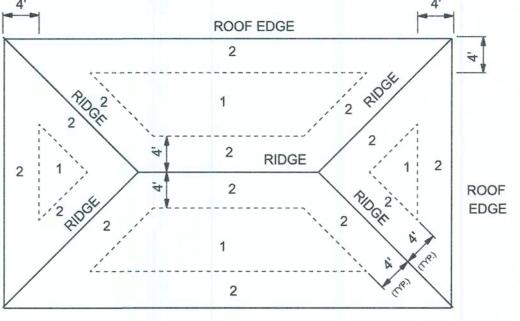
7/9/20 REVSIONS

SHEET

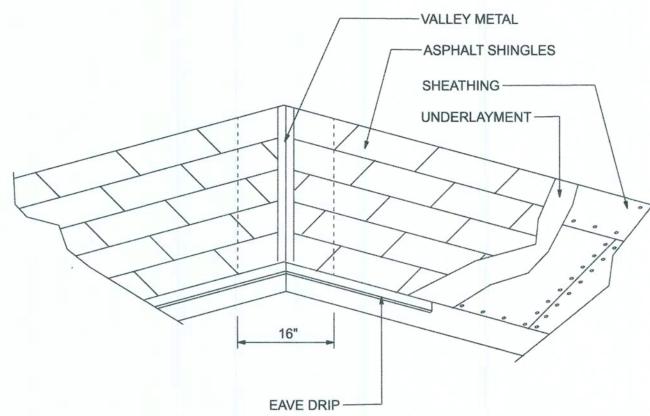
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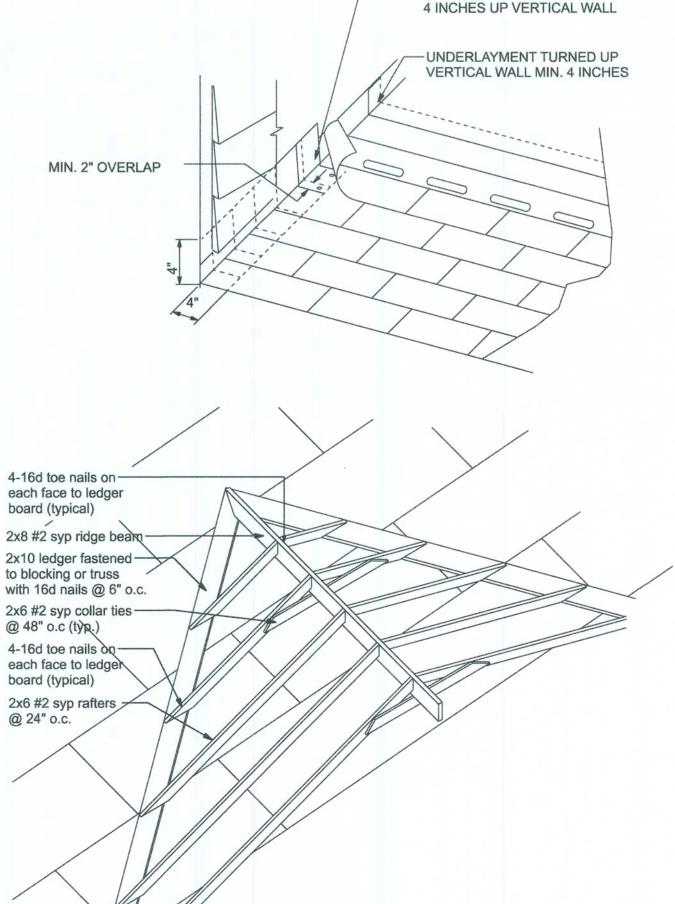
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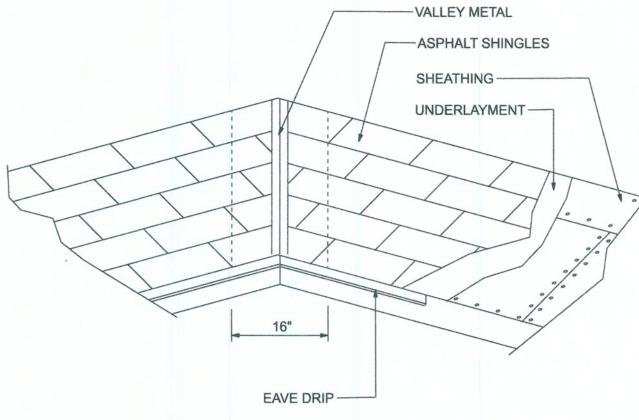
PROJECT NO. 20.R019

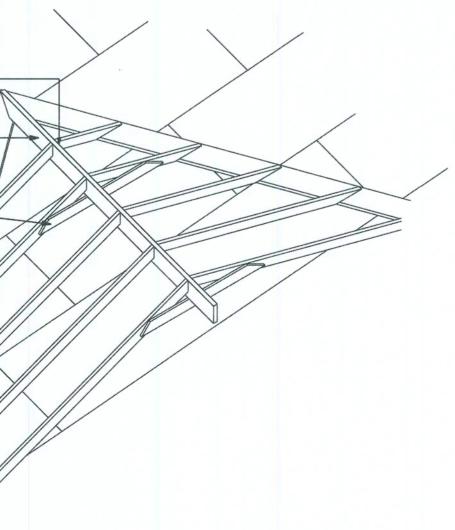


# ROOF SHEATHING NAILING ZONES









ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95. UNDERLAYMENT APPLICATION:

ROOF SHEATHING FASTENINGS

FASTENER

8d ring shank

galvanized

ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DOUBLE UNDERLAYMENT

UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 226,

SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND

FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING

MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:

SPACING

6 in. o.c. EDGE 6 in. o.c. FIELD

6 in. o.c. EDGE

6 in. o.c. FIELD

6 in. o.c. EDGE 6 in. o.c. FIELD

NAILING

ZONE

SHEATHING

7/16 o.s.b.

DECK REQUIREMENTS:

TYPE 1, OR ASTM D 4869, TYPE 1.

COMPLY WITH ASTM D 225 OR ASTM D 3462.

IS REQUIRED.

ASPHALT SHINGLES:

**FASTENERS:** 

FOR ROOF SLOPES FORM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS: 1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE

APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE. FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE

LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS: STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY

BASE AND CAP FLASHINGS: BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

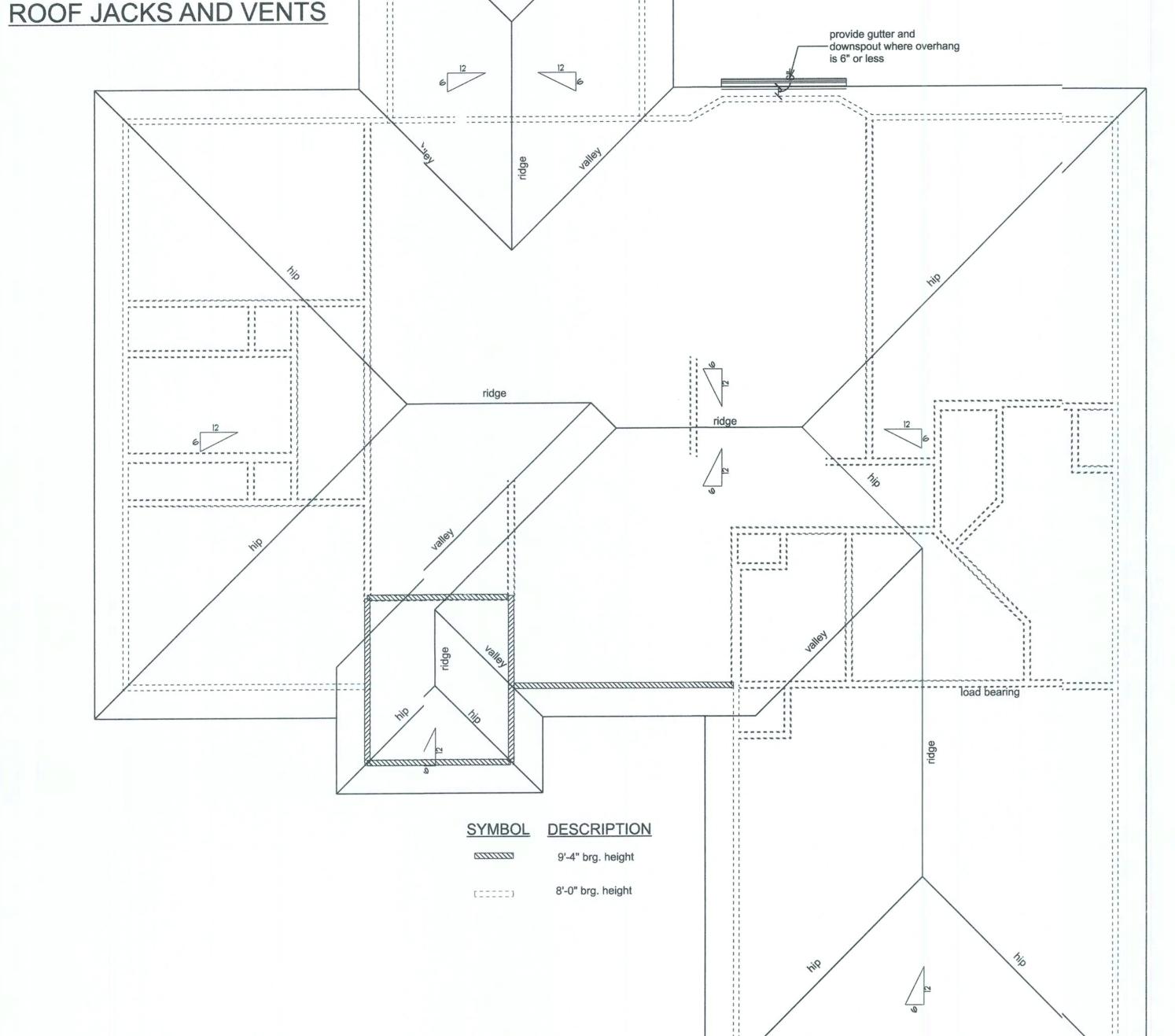
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED. 1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2.

2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.

3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING: 1. BOTH TYPES 1 AND 2 ABOVE, COMBINED. 2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH

3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

MATERIAL	MINIMUM THICKNESS (in)	GAGE	WEIGH7
COPPER			1
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0179	26 (zinc coated G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.027		2 1/2 20



**NEOPRENE** 

ROOF JACK-

**ROOFING LAPS-FLASHING AT** 

SIDES AND TOP

FLASHING LAPS

ROOFING AT BOTTOM -

GASKET

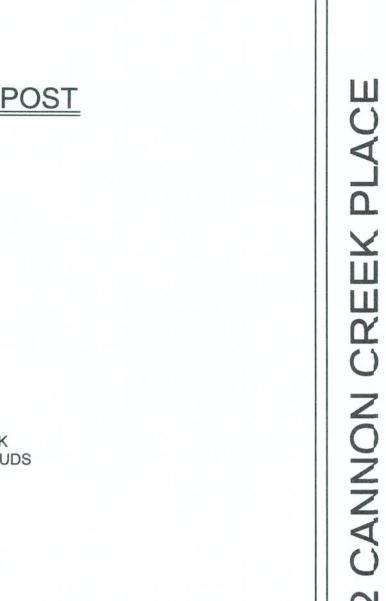
**ROOF PLAN** SCALE: 1/4"=1'-0"

(HIP ROOF)

-FLASHING PLACED UPSLOPE FROM EXPOSED EDGE OF SHINGLE EXTENDING 4 INCHES OVER UNDERLYING SHINGLE AND

each face to ledger board (typical) 2x8 #2 syp ridge bear 2x10 ledger fastened to blocking or truss with 16d nails @ 6" o.c. 2x6 #2 syp collar ties -@ 48" o.c (typ.) 4-16d toe nails on-

ROOF INTERSECTION DETAIL



simpson PC44

4-16d nails to post

6-16d nails to beam

TAIL

RAMIN

DRAWN BY W.H.F. DATE 7/9/20 **APPROVED** W.H.F.

**FEVISIONS** 

SHEET A-7

PROJECT NO. 20.R019

-SIMPSON H2.5T 5-8d NAILS TO TRUSS 5-8d NAILS TO HEADER 1x furring — @ 16" o.c. -dbl 2x12 header w/ 1/2 spacer unless otherwise noted simpson LSTA24 18-10d nails (2) required -wrap header with aluminum coil stock

PORCH SECTION

(20) 10d nails

minimum

SCALE: : 3/4" = 1'-0"

(20) 10d nails

minimum

10d nailsat 16" o.c.

elsewhere

-P.T. 4x4 POST



- POST

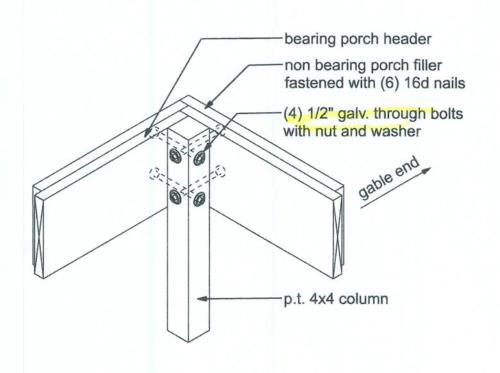
SIMPSON LSTA24

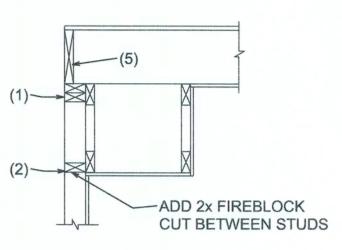
- 18-10d NAILS

(2 REQUIRED)



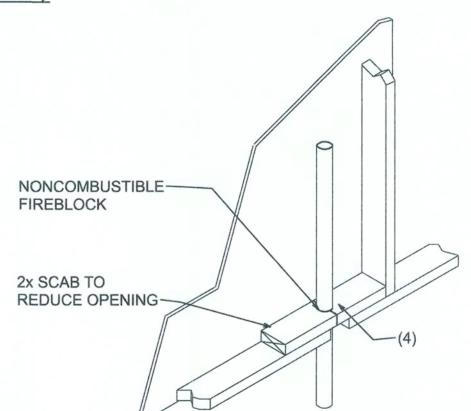
porch header





SOFFIT/DROPPED CLG.

CORNER POST (front porch option)

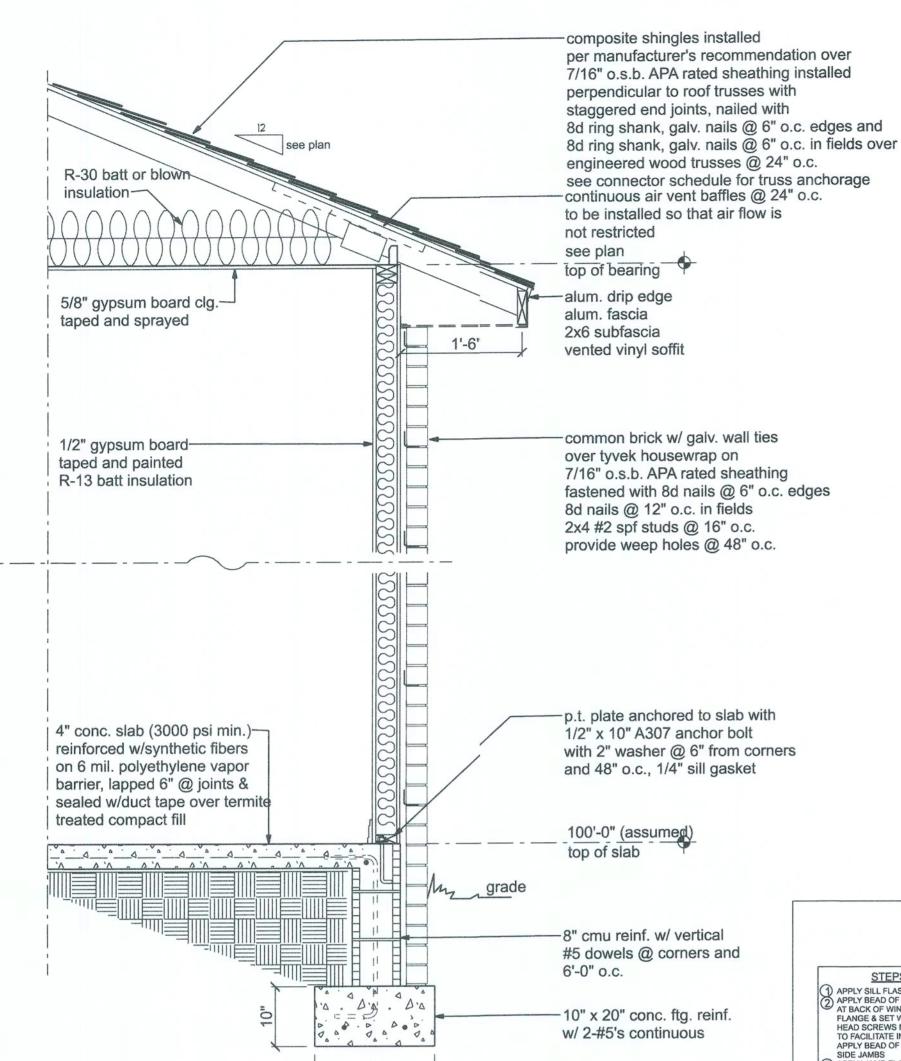


# **PENETRATIONS**

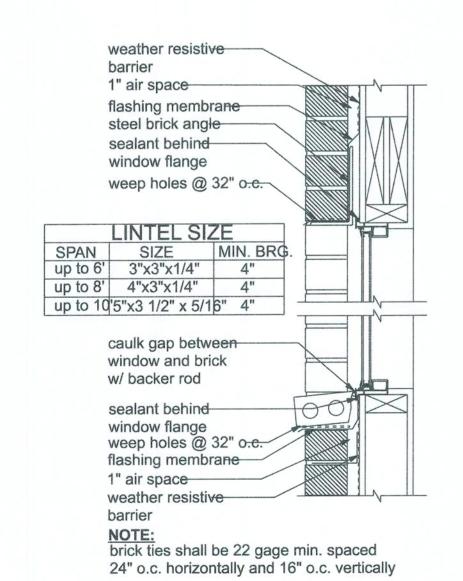
# FIREBLOCKING NOTES:

FIREBLOCKING SHALL BE INSTALLED IN WOOD FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

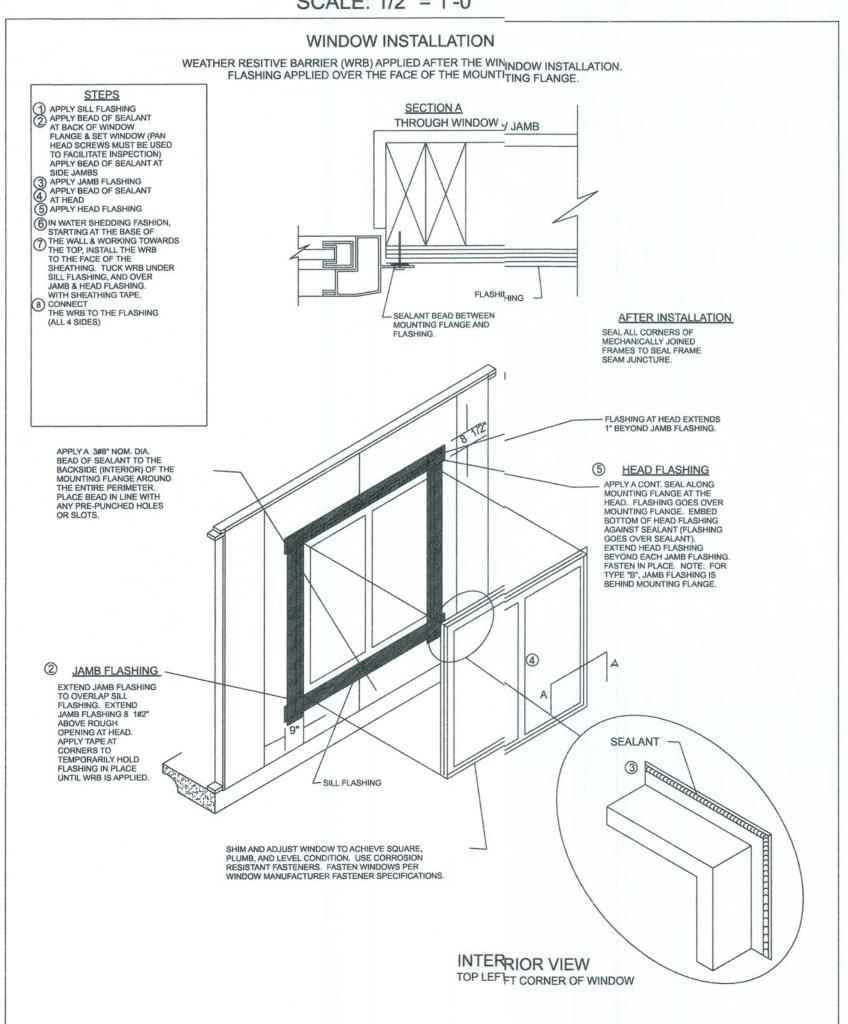
- 1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
- 2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
- 3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
- 4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYROPANEL MULTIFLEX SEALANT
- 5. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.

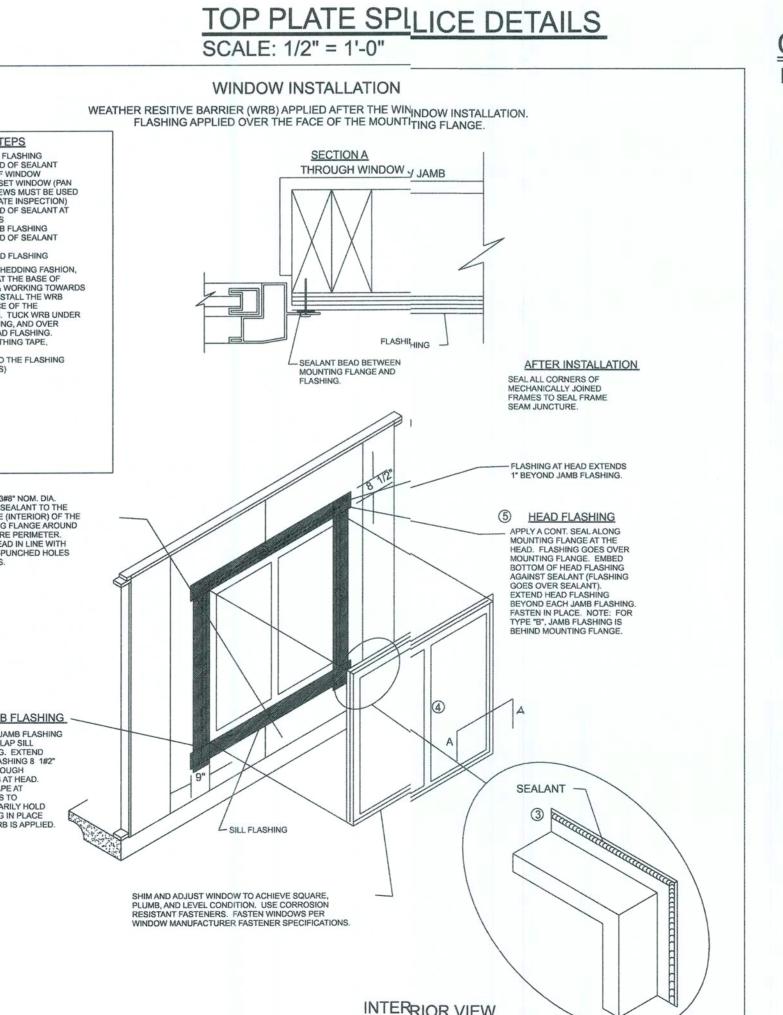


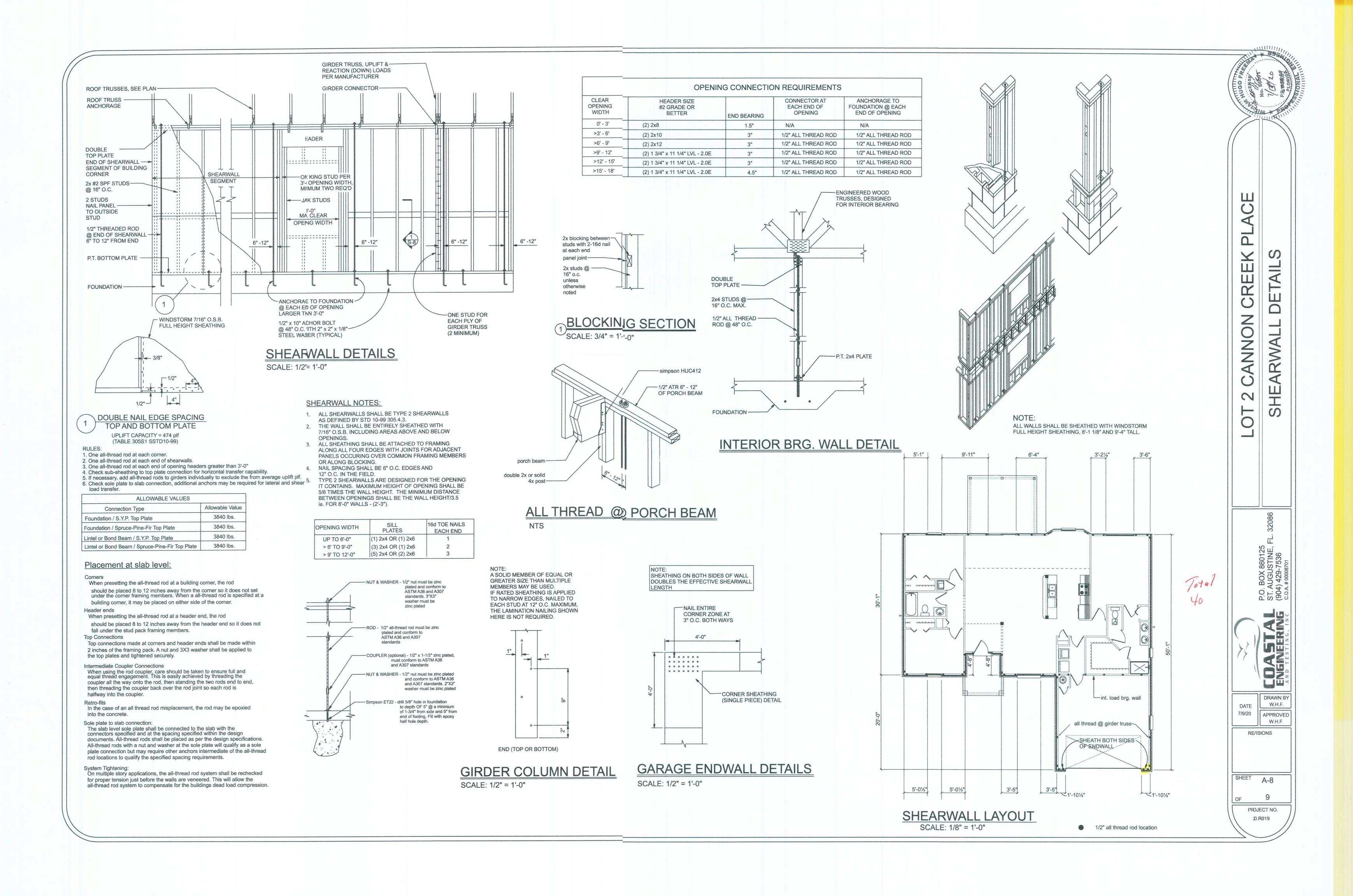
# TYPICAL WALL SECTION SCALE: 3/4" = 1'-0"

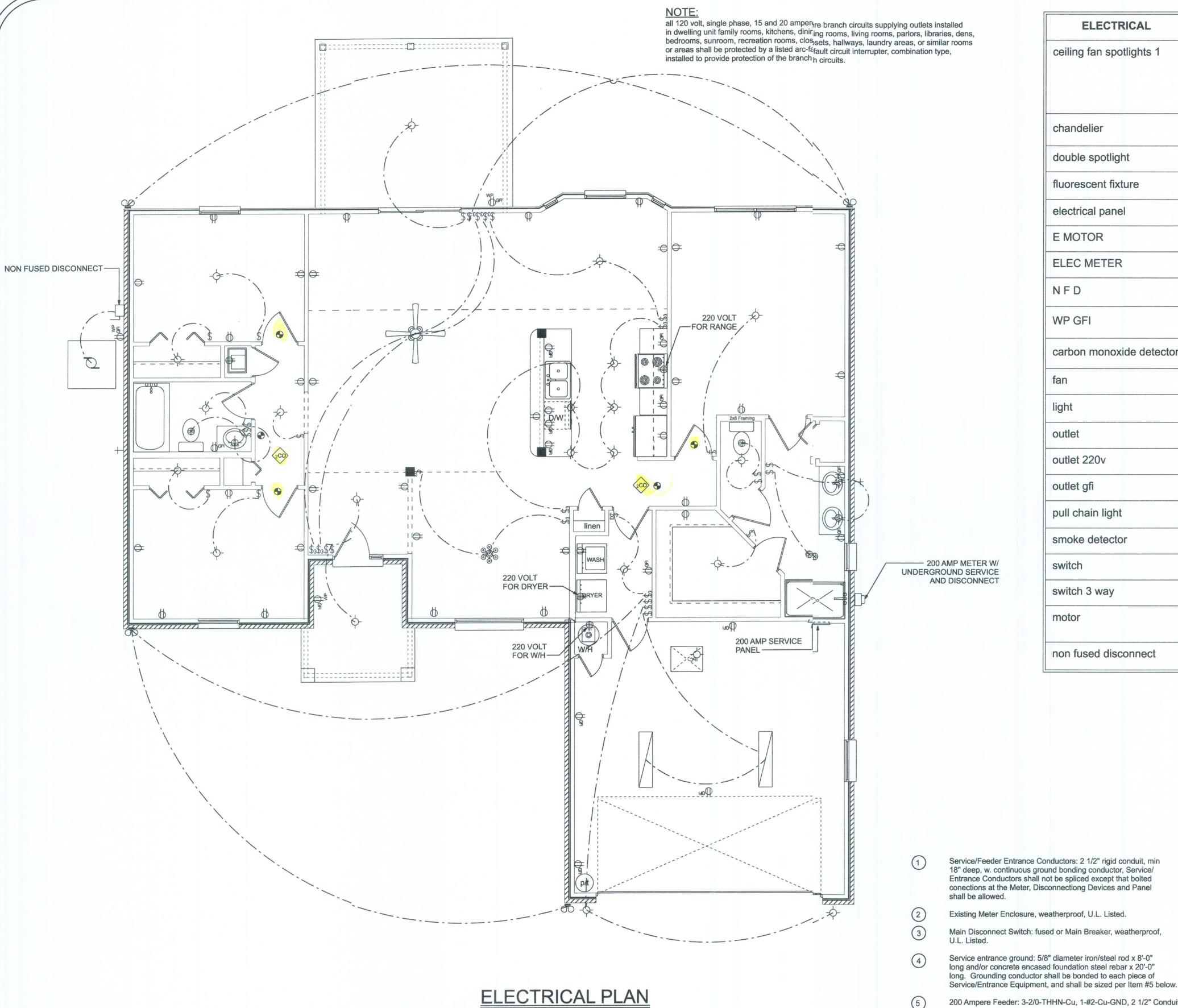


BRICK FLASHING SCALE: 1 1/2" = 1'-0"









SCALE 1/4"=1'-0"

ELECTRICAL	SYMBOL
ceiling fan spotlights 1	
chandelier	9.0 90 90
double spotlight	Qp
fluorescent fixture	
electrical panel	()
E MOTOR	O
ELEC METER	
NFD	Q
WP GFI	W W
carbon monoxide detector	Ç0 <sub>2</sub> >
fan	<b>⊕</b>
light	<b>-</b>
outlet	Ф
outlet 220v	•
outlet gfi	dbon .
pull chain light	-\hat{\chi_c}
smoke detector	•
switch	\$
switch 3 way	\$3
motor	$\Diamond$
non fused disconnect	N

Service/Feeder Entrance Conductors: 2 1/2" rigid conduit, min 18" deep, w. continuous ground bonding conductor, Service/ Entrance Conductors shall not be spliced except that bolted conections at the Meter, Disconnectiong Devices and Panel

- Existing Meter Enclosure, weatherproof, U.L. Listed.
- Main Disconnect Switch: fused or Main Breaker, weatherproof,
- Service entrance ground: 5/8" diameter iron/steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding conductor shall be bonded to each piece of
- 200 Ampere Feeder: 3-2/0-THHN-Cu, 1-#2-Cu-GND, 2 1/2" Conduit.
- House Panel (PNL), U.L. Listed, sized per schedule.
- Equipment Disconnect Switch: non-fused, in weather proof enclosure, size according to Panel Schedule loads.
- Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

# **ELECTRICAL PLAN NOTES**

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONT'R SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN. RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr., DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

#### **WIRING NOTES:**

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES

A. CONDUCTORS: Copper, in accordance with ASTM Standards, size reference AWG. Conductors No. 10 and smaller size solid, No. 8 and Larger, Stranded. Insulation of conductor thermoplastic, type THHN (min. size No. 12) any wire installed outside, underground, in slabs or exposed to moisture shall have THWN insulation.

B. RACEWAYS: RIGID STEEL CONDUIT, full weight pipe galvanized, threaded, and minimum 1/2 inch except as noted or required for wiring. ELECTRICAL METALLIC TUBING (EMT), thin wall pipe, galvanized, threadless, compression fittings, and minim 1/2" size except as noted or required for wiring. FLEXIBLE STEEL CONDUIT: continuous single strip, galvanized, and minimum 1/2" size except as noted or required for wiring. PVC CONDUIT, heavy duty type, size as indicated. Separate raceways shall be used for each voltage system.

C: DISCONNECT SWITCHES: General Duty, horsepower rated for motor loads 250 volt rating, fused or non-fused as noted; number of poles as indicated. Enclosure NEMA 1 for indoor use and NEMA 3R for weatherproof applications. Switch to be Square "D" or equal.

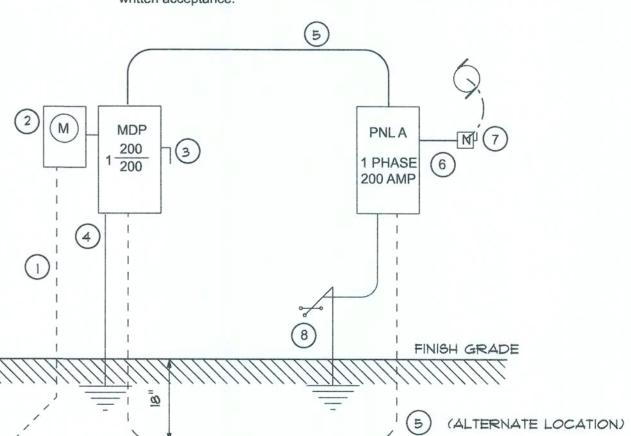
D: CIRCUIT BREAKERS: molded case, thermal-magnetic, quick make, quick break, bolt-on type with manually operated insulated trip-free handle. Multi-pole types with internal common trip bar. Terminals suitable for copper or aluminum conductors. Interrupting capacity minimum 10,000 RMS symmetrical amperes circuit circuit breakers to be Square "D", Siemens or equal, type as required. E: PANELBOARDS: Voltage, phasing, and ampere ratings as indicated, circuit breaker type as indicated, buss bars of hard drawn copper, minimum 98% conductivity, galvanized steel back box, door and trim. All corners lapped and welded, hardware chrome plated with flush lock and catch. Hinges semi-concealed, 5 knuckles steel with nonferrous pins. 180 degree openings. Minimum gutter space 5-3/4" sides, top and bottom. Increase size where required by code. Directory holder complete with clear plastic transparent cover indicating typwritten list of feeder cables, conduit sizes, circuit number, outlets of equipment supplied, and their location. Circuit breaker type panelboards to be Square "D" type NQOD or I-Line, or equal. A plastic label shall be located on exterior of panelboard identifying the system voltage, phase, and current rating. F: WIRING DEVICES: All devices their product of the same manufacturer. Wall switches and receptacles to be 20 amp, 125 volt, unless noted otherwise. Color to be selected by Architect.

G: DEVICE PLATES: provide for all outlets where devices are installed. Provide engraved marking for special outlets (where noted). Provide blank plates for empty or future outlet boxes. DEVICE AND DEVICE PLATE COLORS TO BE VERIFIED WITH ARCHITECT AND OWNER.

a. EQUIPMENT: Ground non-current carrying metal parts of panel board, receways and all lighting fixtures. All conduit shall have equipment grounding conductors.

# INSTALLATION:

- A. Secure all supports to building structure as specified under raceways. Support horizontal runs of metallic conduit not more than 10 feet apart. Run exposed raceways parallel with or at right angles
- B. Pass raceways over water, steam or other piping when pull boxes are not required. no raceway within 3 inches of steam or hot water pipes, or appliances. expect crossing where the raceway shall be at least 2 inches from pipe cover.
- C. Cut conduit ends square, ream smooth. Paint male threads of field threaded conduit with Graphite based pip compound. Draw up tight with conduit couplings.
- D. Leave wire sufficiently long to permit making final connections. In raceway over 50 feet in which wiring is not installed, furnish pull wire. E. Verify locations of outlets and switches.
- F. Support panel, junction and pull boxes independently to building structure with no weight bearing G. Connect conduit to motor conduit terminal bases with flexible conduit; minimum 18 inches in
- length and 50% slack. Do not terminate in or fasten raceways to motor foundation. H. This contractor shall provide a temporary electrical distribution system as required; 120/208 volt, 1 phase, 100 amp, for new construction. All temporary work shall be installed in a neat and safe manner.
- Contractor to remove and salvage all abandoned electrical equipment. J. This contractor shall warrant all labor and materials for one year from date of final written acceptance.





<u>R</u> Z

2

DRAWN BY W.H.F. DATE 7/9/20 APPROVED W.H.F.

REVSIONS

SHEET A-9

PROJECT NO. 2CR019