

STRUCTURAL NOTES

- 1) DESIGN LOADS IN ACCORDANCE WITH ASCE7-16.
- 2) SOIL BEARING CAPACITY: 2500 PSF (MIN.).
- 3) ALL STRUCTURAL CONCRETE IN BEAMS, LINTELS, VERTICAL CELLS, AND COLUMNS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
- 4) SLAB / FOOTINGS TO BE CONCRETE WITH A MINIMUM 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS. SEE PLAN FOR SIZES & STEEL REQUIREMENTS.
- 5) MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS: FOOTINGS: 3" BEAMS: 1 1/2" SUSPENDED SLABS: 1 1/2"
- 6) LAP ALL REINFORCING STEEL A MINIMUM OF 48 BAR DIAMETERS EXCEPT AS NOTED GRADE 60 STEEL MINIMUM IN BEAMS AND COLUMNS.
- 7) ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- 8) SPLITTING OR CRACKING OF STRUCTURAL COMPONENTS DUE TO INSTALLATION OF HARDWARE IS NOT PERMITTED.
- 9) UNLESS OTHERWISE NOTED, THE INSTALLATION OF SPECIFIED HARDWARE SHALL CONFORM TO THE MANUFACTURERS INSTRUCTIONS AND STANDARD PRACTICES.
- 10) UNLESS OTHERWISE NOTED, FOR EXTERIOR WALLS, EXTERIOR PLYWOOD SHEATHING AND INTERIOR DRYWALL IS TO BE NAILED WITH 10d OR BETTER NAILS 6" O.C. EDGES, AND 8" O.C. FIELD, OR SCREWED WITH DRYWALL SCREWS 1.5" LONG AND 0.131 DIA.
- 11) ALL LINTELS SHALL HAVE A MINIMUM 4" BEARING.
- 12) PROVIDE # 5 CORNER BARS W/ 30" MIN. LAP SPLICE FOR BOND BEAM.
- 13) EXTERIOR FRAME WALLS TO BE STUCCO OVER WIRELATH WITH 1 1/2" GA. 2" LONG NAILS WITH 3/8" Ø HEAD @ 6" O.C. OVER (2) LAYERS OF (15# FELT OR TYVAK BUILDING WRAP) OVER 1/2" CDX PLYWOOD WITH 10D NAILS TO STUDS @ 6" O.C. PERIMETER AND FIELD.
- 14) BEARING POINTS OF TRUSSES SHALL HAVE VERTICAL STUDS IN A NUMBER EQUAL TO THE NUMBER OF PILES OF THE BEARING MEMBER WHEN THE BEARING MEMBER IS (2) OR MORE PILES UNLESS NOTED.
- 15) **R606.2.1 CONCRETE MASONRY UNITS**
CONCRETE MASONRY UNITS SHALL CONFORM TO THE FOLLOWING STANDARDS: ASTM C55 FOR CONCRETE BRICK; ASTM C75 FOR CALCIUM SILICATE FACE BRICK; ASTM C80 FOR LOAD-BEARING CONCRETE MASONRY UNITS; ASTM C744 FOR PREFACED CONCRETE AND CALCIUM SILICATE MASONRY UNITS; OR ASTM C1634 FOR CONCRETE FACING BRICK.
- 16) **R606.2.7 MORTAR**
EXCEPT FOR MORTARS LISTED IN SECTIONS R606.2.8, R606.2.9 AND R606.2.10, MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL MEET THE PROPORTION SPECIFICATIONS OF TABLE R606.2.7 OR OR THE PROPERTY SPECIFICATIONS OF ASTM C270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WITH SECTIONS R606.2.7.1, R606.2.7.2 AND R606.2.7.3
- 17) **R606.2.11 GROUT**
GROUT SHALL CONSIST OF CEMENTITIOUS MATERIAL AND AGGREGATE IN ACCORDANCE WITH ASTM C476 OR THE PROPORTION SPECIFICATIONS OF TABLE R606.2.11. TYPE M OR TYPE S MORTAR TO WHICH SUFFICIENT WATER HAS BEEN ADDED TO PRODUCE POURING CONSISTENCY SHALL PERMITTED TO BE USED AS GROUT.

ELECTRICAL NOTES

- 1) ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NEC (NFPA 70) 2017 EDITION.
- 2) A MINIMUM OF 75% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFACY LAMPS OR A MINIMUM OF 75% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFACY LAMPS. (LOW VOLTAGE LIGHTING SHALL NOT BE REQUIRED TO BE HIGH-EFFACY LAMPS)
- 3) RECESSED LIGHTING SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES.
- 4) SMOKE DETECTORS TO BE 110V W/ BATTERY BACK UP - ARC FAULT CIRCUIT
- 5) SMOKE DETECTORS TO BE INTERCONNECTED SO THAT ONE SMOKE DETECTOR ACTIVATES ALL SMOKE DETECTORS IN THE RESIDENCE
- 6) PROVIDE BRANCH CIRCUIT ARC-FAULT PROTECTION FOR ALL CIRCUITS SERVING: FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DEN, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS PER FBC AND NEC REQUIREMENTS.
- 7) PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR ALL 120-VOLT, SINGLE-PHASE 15 AND 20 AMP CIRCUITS SERVING: BATHROOMS, GARAGES, KITCHENS, ACCESSORY BUILDINGS, OUTDOORS, OR WITHIN 12" OF EDGE OF ANY SINK.
- 8) CARBON MONOXIDE DETECTORS TO BE INSTALLED WITHIN 10' OF ALL BEDROOMS.
- 9) EXHAUST FANS TO BE VENTED THRU ROOF OR SOFFIT.
- 10) PROVIDE TAMPER RESISTANT RECEPTICLES PER NEC REQUIREMENTS.

ENERGY CONSERVATION NOTES

- 1) RESIDENCE SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE 2020 ENERGY CONSERVATION RESIDENTIAL.
- 2) ATTIC ACCESS DOORS OR HATCHES FROM CONDITIONED SPACES TO UNCONDITIONED SPACES SHALL BE WEATHERSTRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. A WOOD FRAMED OR EQUIVALENT BAFFLE OR RETAINER IS REQUIRED TO BE PROVIDED WHEN LOOSE FILL IS INSTALLED, TO PREVENT LOOSE FILL FROM SPILLING INTO THE LIVING SPACE.
- 3) THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS R402.4.1 THROUGH R402.4.4.
- 4) WINDOWS, SKYLIGHTS, AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FT, AND SWINGING DOORS NO MORE THAN 0.5 CFM PER SQUARE FT AND MUST BE TESTED LISTED AND LABELED IN ACCORDANCE WITH R402.4.3.
- 5) CONTRACTOR SHALL PROVIDE ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD IN ACCORDANCE WITH FBC 2020 ENERGY CONSERVATION R401.3.

GENERAL NOTES

- 1) THE CONTRACTOR, SUBCONTRACTOR, SUPPLIER, ECT. SHALL VERIFY ALL DIMENSIONS, CONDITIONS AT JOB SITE, PLANS, SPECIFICATIONS, ECT.
- 2) STRUCTURAL FEATURES NOT DETAILED ON THESE PLANS WILL BE ADDRESSED BY THE ENGINEER AS CONSTRUCTION PROGRESSES.
- 3) ALL WRITTEN DIMENSIONS ON THESE DRAWINGS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 4) ALL CONSTRUCTION MUST COMPLY WITH THE FLORIDA BUILDING CODE (FBC) 2020, RESIDENTIAL, FBC 2020 PLUMBING CODE, FBC 2020 MECHANICAL CODE, FBC 2020 ENERGY CONSERVATION, AND THE NEC (NFPA 70) 2017 EDITION.
- 5) RESIDENCE LOCATED IN NEGLIGIBLE WEATHERING AREA, AND IN VERY HEAVY TERMITE INFESTATION AREA PER FRC 301.

ADDITIONAL NOTES

- 1) INTERIOR TO BE 1/2" DRYWALL FINISH.
- 2) ALL INTERIOR GYPSUM BOARD TO BE MIN. 1/2" THICK WITH (13 GAGE, 1 3/8" LONG, 1964" HEAD; 0.088" DIAMETER, 1 1/2" LONG, ANNULAR RINGED, 50 COOLER NAIL, 0.088" DIAMETER, 1.58" LONG, 5/64" HEAD; OR GYPSUM BOARD NAIL, 0.088" DIAMETER, 1.58" LONG, 9/32" HEAD) SPACED AT 7" O.C. FOR NAILS AND 12" O.C. FOR SCREWS.
- 3) WALLS AT SHOWER TO BE TILE. PROVIDE CEMENT, FIBER-CEMENT OR GLASS MAT GYPSUM BACKERS IN COMPLIANCE WITH ASTM C 1208, C 1325, C 1178, OR C 1278 AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AS BACKERS FOR WALL TILES IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS. (PER FRC 702.4.1 & FRC 702.4.2).
- 4) WALL AND CEILING FINISHES SHALL HAVE A SMOKE-DEVELOPED INDEX OF NOT GREATER THAN 450.
- 5) WALL AND CEILING FINISHES SHALL HAVE A FLAME-SPREAD CLASSIFICATION OF NOT GREATER THAN 200.
- 6) ALL EXPOSED INSULATION MATERIALS INSTALLED ON ATTIC FLOORS SHALL HAVE A CRITICAL RADIANT FLUX NOT LESS THAN 0.12 WATT PER SQUARE CENTIMETER. EXPOSED FOAM PLASTIC INSULATION MATERIALS EXPOSED TO THE UNDERSIDE OF THE ROOF DECK OR ON THE ATTIC WALLS SHALL COMPLY WITH SECTION FRC316.
- 7) PER FRC 702.2.1 ALL GYPSUM BOARD MATERIALS AND ACCESSORIES SHALL CONFORM TO ASTM C 36, C 79, C 475, C 514, C 630, C 931, C 960, C 1002, C 1047, C 1177, C 1178, C 1278, C 1395, C 1398 OR C 1658 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF FRC, AND ADHESIVES FOR THE INSTALLATION OF GYPSUM BOARD SHALL CONFORM TO ASTM C 557
- 8) INSULATION MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS OR VAPOR PERMEABLE MEMBRANES INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALL ASSEMBLIES, CRAWL SPACES AND ATTICS SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

Building Department Product Approval Submittal Affidavit										
Permit #		Building Address: SEE PLAN				Contractor: TBD				
Opening ID	FL # or NOA #	Product	Model #	Manufacturer	Glass Description	Attachment Method Type, Size, Spacing & Embedment (DISTANCE FROM CORNER / DISTANCE O.C.)	Building Design Pressure	Product Design Pressure		
SH WIND	FL# 22250.1	SINGLE HUNG	ES-EL100 ALUM	ES WINDOWS INC	IMPACT	1/4" X 1 3/8" MIN. EMBD. TC'S AT 6"	SEE ELEV	+60 / -70		
3068 SC DOOR	FL# 20468.1	SC DOOR	SMOOTH STAR	THERMA-TRU	N/A	1/4" X 1 1/4" MIN. EMBD. TAPCONS AT 6" / 14" O.C.	SEE ELEV	+/- 67		
3068 SC DOOR WITH 1OR2 SL	FL# 20468.2	SC DOOR W/ SL	SMOOTH STAR	THERMA-TRU	IMPACT	1/4" X 1 1/4" MIN. EMBD. TAPCONS AT 6" / 14" O.C. AND 3" & 7" EACH SIDE OF MEETING RAIL TOP AND BOTTOM	SEE ELEV	+/- 50		
OHD	FL# 16546.4	OVERHEAD DOOR	74W6	CLOPAY	N/A	5/16" X 1 5/8" LAG SCREWS (ONE PER BRACKET)	SEE ELEV	+36 / -42 PSF		
Product	Model #	Manufacturer			Attachment Method Type, Size, Spacing, Embedment & Stiffener etc.			Building Design Pressure	Product Design Pressure	
Roof	SHINGLES FL#10674.1	OWENS CORNING			FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED STEEL, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE (0.105 INCH (2.66MM) SHANK WITH A MINIMUM 3/8 INCH (9.5MM) DIAMETER HEAD, ASTM F 1667 #1 LENGTH TO PENETRATE THROUGH THE ROOFING MATERIALS AND A MINIMUM 3/4 INCH (19MM) INTO THE ROOF SHEATHING. WHERE THE ROOF SHEATHING IS LESS THAN 3/4 INCH (19MM) THICK, THE FASTENERS SHALL PENETRATE THROUGH THE SHEATHING FASTENERS SHALL COMPLY WITH ASTM F 1667 (8 PER SHINGLE)			Vult: 165mph	Vult: 194mph	
UNDERLAYMENT	WEATHER ARMOR SB-1	FL# 26482.2	APOC			Apply directly to the roof deck. Do not apply to shingles or other roof coverings. Start at the lowest point of the roof deck where possible. Overlap seams 3" minimum and endlaps 3" minimum. Peel half of the backing off the roll and apply firm, even pressure from the center to the outer edges. Remove the backing from the remaining half of the roll and apply pressure.			N/A	N/A
VERT. Mullions (2 SH 25)	ALUM 1X3 FL# 15984.1	ES WINDOWS INC			1/4" X 1 1/4" MIN. EMBD. TAPCON (4 PER CLIP)			SEE ELEV	+32/-53	
Hurricane Panels	N/A									

I have reviewed the above product approval information and approve it.
 Name: Paul Welch P.E. Certification Number: 29945
 ALL GLAZED EXTERIOR OPENINGS SHALL BE IMPACT RESISTANT.



City of Fort Pierce Building Department
 100 N. US 1, Ft. Pierce, FL 34950
 (772) 460-2200 ext. 261 (fax) (772) 467-9836

Design Certification for Wind Load Compliance

This Certification is to be completed by the project design architect or engineer. This Certification must be submitted with all applications for building permit(s) involving the construction of new residences (single or multi-family), residential additions, accessory structures requiring a building permit, and any nonresidential structure. This Certification shall not apply to interior renovations (provided that no structural walls, columns or similar component are being affected) or certain other minor permits. For further assistance please contact the Permit Office at (772) 460-2200, ext. 261, 276, 231 or 274.

Project Name & Address	Office use only this side	
KB CONSTRUCTION SPEC	Permit #	
	Occ. Type	
FORT PIERCE, FL	Const. Type	

Certification Statement:

I certify that, to the best of my knowledge and belief, these plans and specifications have been designed to comply with the applicable structural portion of the building codes currently adopted and enforced by the City of Ft. Pierce. I also certify that structural elements depicted on these plans provide adequate resistance to the wind loads and forces specified by current code provisions.

Design Parameters and Assumptions Used: (please check or complete the appropriate box)

- Building Code Edition used (year, 2020 7th Edition FBC ASCE 7-16 Other _____
- Building Design is (check one) Enclosed Partially Enclosed Open Building
- Mean Roof Height 15 Ft. Roof Pitch: 5 : 12 Wind Speed Used in Design: 165 MPH Vult
- Wind Exposure Classification (Refer to Exposure Tables in ASCE 7): B
- Wind Velocity Pressure (Refer to ASCE EQ 28.3-1 & 30.3.3): 25.0 PSF Components and Cladding 25.0 PSF
- Design Pressure on Exterior Faces of Structure (ASCE 30.4-1): Positive 29.4 PSF and Negative -39 PSF
- Importance / Use Factor (Obtain from ASCE Tbl 1.5-2): 1.0
- Risk Category (Obtain from FBC Table 1604.3): 2
- Applicable Internal Pressure Coefficients (Tbl 26.11-1 ASCE 7): 0.18
- Loads: Floor: N/A PSF Roof/Dead: 7 PSF Roof/Live: 20 PSF
- Were Shear Walls Considered for Structure? (Check one) Yes No (If No, attach explanation)
- Is a Continuous Load Path Provided? (Check one) Yes No (If No, attach explanation)
- Are Component and Cladding Details Provided? (Check one) Yes No (If No, attach explanation)
- Minimum Soil Bearing Pressure: 2500 PSF

Design Professional Certification:

As witnessed by my seal, I hereby certify that the information included with this certification is true and accurate, to the best of my knowledge and belief.

Name PAUL WELCH P.E. Certification No. 29945
 (check one) Architect Engineer

Design Firm PAUL WELCH INC. Date 2/11/2023

THIS ELECTRONIC SIGNATURE ALONG WITH P.E. SEAL ON EACH SHEET CERTIFIES ALL SHEETS IN THIS FILE.



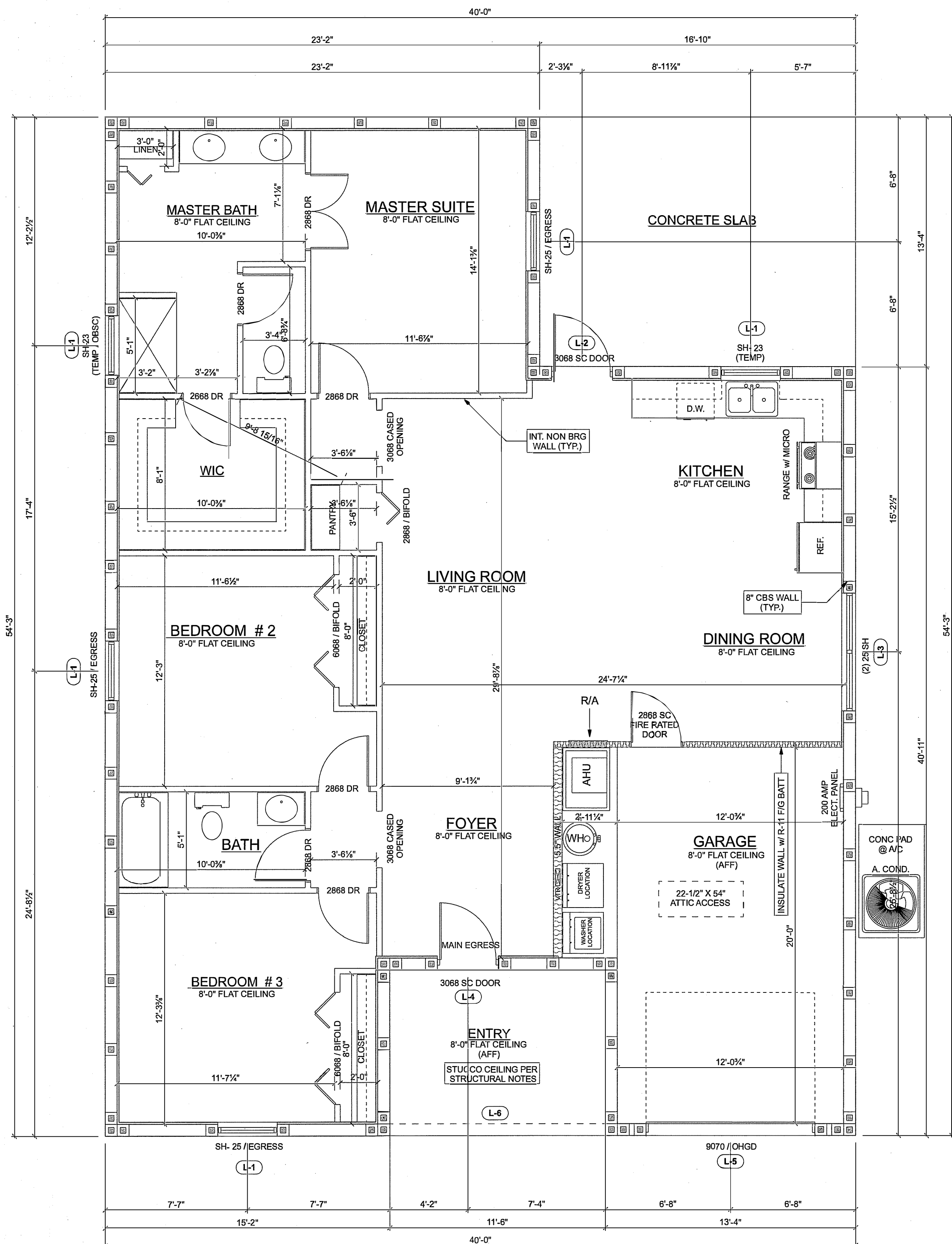
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PAUL WELCH, P.E. ON 05/02/2023.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED & SEALED AND THE ELECTRONIC SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

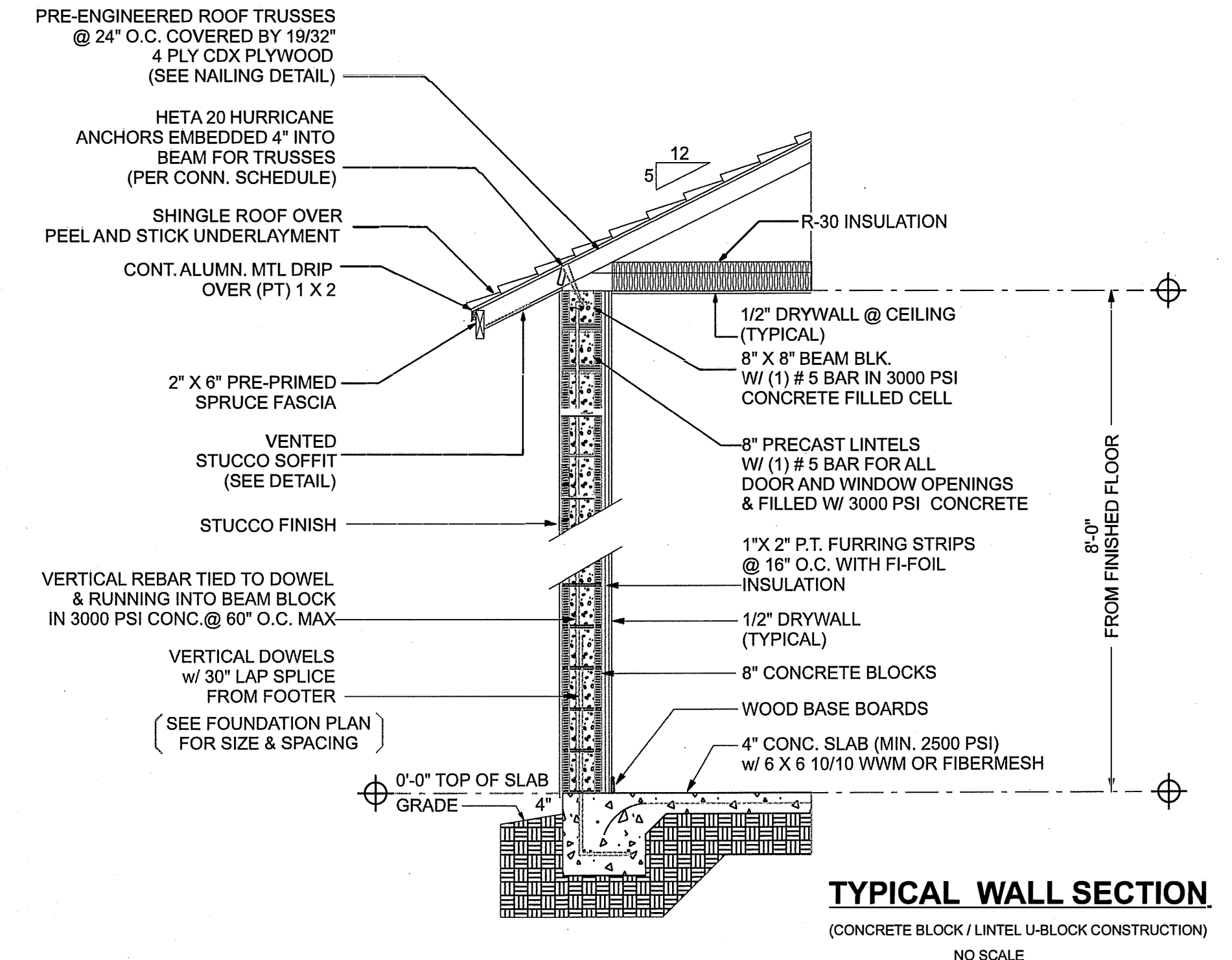
ENGINEER
 PAUL WELCH INC.
 MECHANICAL ELECTRICAL
 CIVIL ENGINEERING
 1894 6th BILTHORE ST., SUITE # 114
 FORT SAINT LUCIE, FL 34984
 PHONE : (772) 785-9888
 EMAIL: PWELCHINC@AOL.COM
 PAUL WELCH P.E.
 FLORIDA REGISTRATION NO. 29945

KIB CONSTRUCTION SPEC HOME
 727 S. 11TH ST., FT. PIERCE, FL.
 INDY: T12 - 224 - 6371

SHEET NUMBER
A-1 OF
7



FLOOR PLAN
1/4" = 1'



LINTEL SCHEDULE

LINTEL #	LENGTH / TYPE	SAFE GRAVITY LOAD	APPLIED GRAVITY LOAD	SAFE UPLIFT LOAD	APPLIED UPLIFT LOAD	COMPOSITE BEAM
L-1	4'-6" 54" U-LINTELS	6133	1000	2724	600	8F16 1B-1T
L-2	4'-6" 54" RECESSED	5206	500	2525	250	8RF14 1B-1T
L-3	7'-6" 90" U-LINTELS	2661	1000	1634	850	8F16 1B-1T
L-4	5'-8" 68" RECESSED	4567	100 PLF	1960	100 PLF	8RF14 1B-1T
L-5	10'-6" 120" U-LINTELS	1533	500	914	250	8F18 1B-1T
L-6	12'-0" 144" U-LINTELS	1254	500	697	250	8F16 1B-1T

NOTE: WHEN LINTEL IS IN VARIOUS LOCATIONS, WORST CASE LOADING IS SHOWN
NOTE: PROVIDE "CASTCRETE" PRE-CAST CONCRETE LINTELS AS NOTED ON PLANS.

AREA TABULATIONS

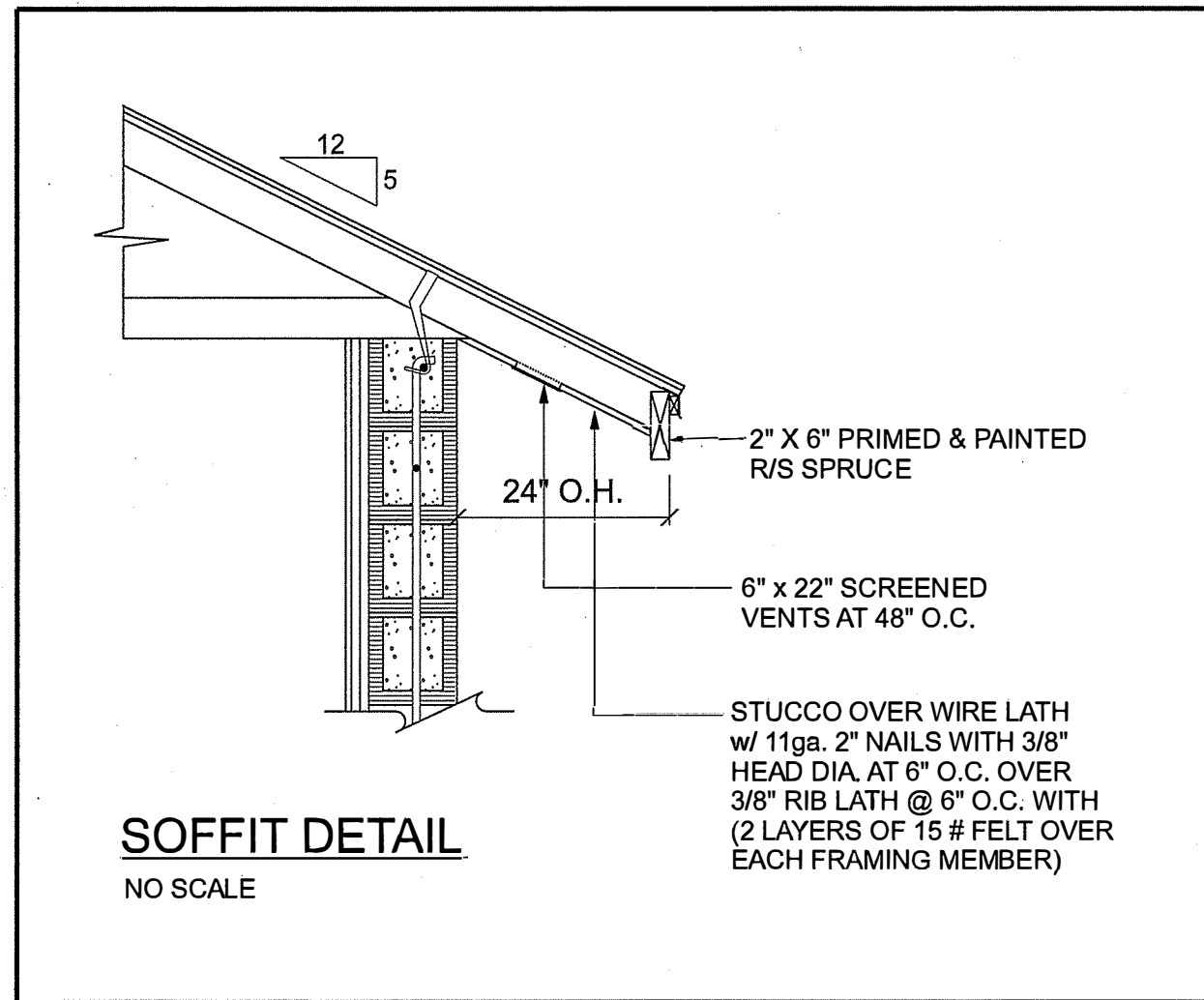
LIVING AREA----- 1542 S.F.
GARAGE----- 302 S.F.
ENTRY----- 101 S.F.
TOTAL----- 1945 S.F.

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121 S. 11TH ST., FT. PIERCE, FL.
INDY: TT2 - 224 - 6311



ENGINEER
PAUL WELCH INC.
MECHANICAL ELECTRICAL
CIVIL ENGINEERING
1884 60 BILTMORE ST., SUITE # 114
PORT SAINT LUCIE, FL 34984
PHONE : (772) 385-9888
EMAIL: PWELCHINC@AOL.COM
PAUL WELCH P.E.
FLORIDA REGISTRATION NO. 29945

SHEET NUMBER
A-2 OF
7

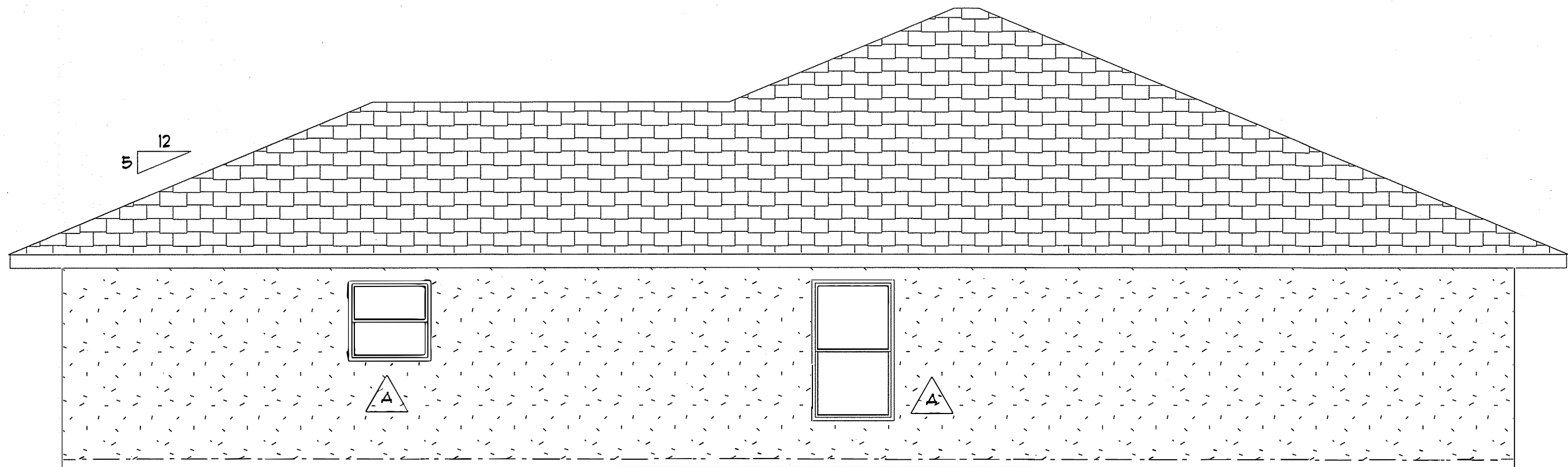


CALCULATE ATTIC VENTILATION

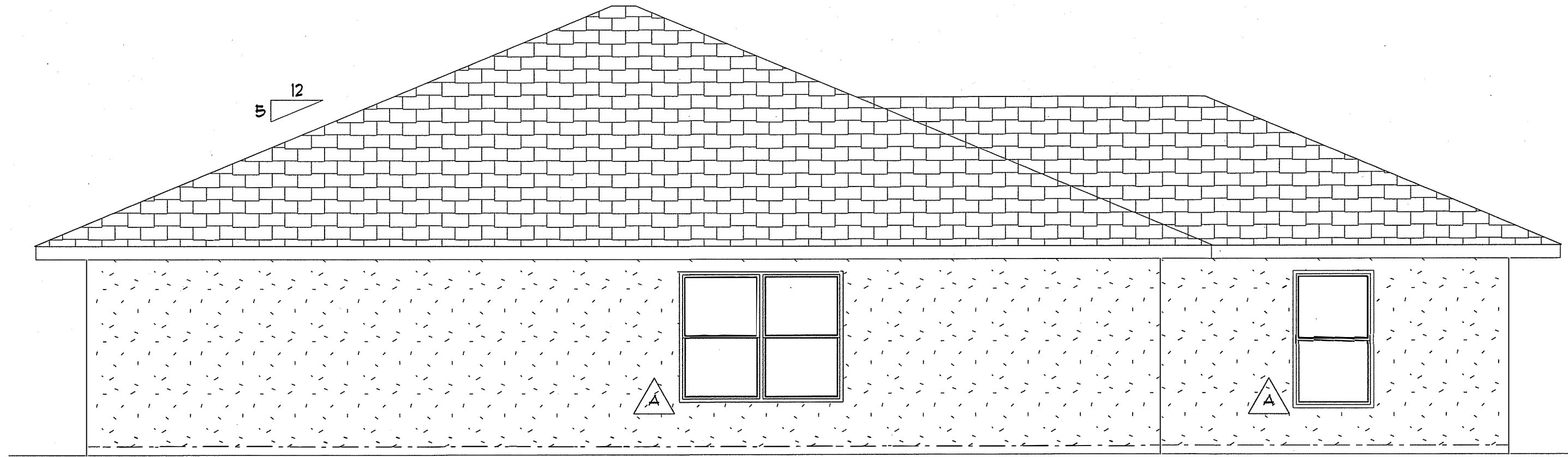
CEILING = 1945 SQ. FT.
 $1945 / 150 = 12.9$ REQUIRED VENTILATION
 188 L.F. OF 6" X 22" VENTS @ 48" O.C. = 43.08 SF / 2
 = 21.5 SF AVAILABLE FOR CROSS VENTILATION
 21.5 SQ. FT. > 12.9 SQ. FT. : VENTILATION O.K.
 USE 6" X 22" VENTS AT 48" O.C.

DESIGN PRESSURES FOR ELEVATIONS

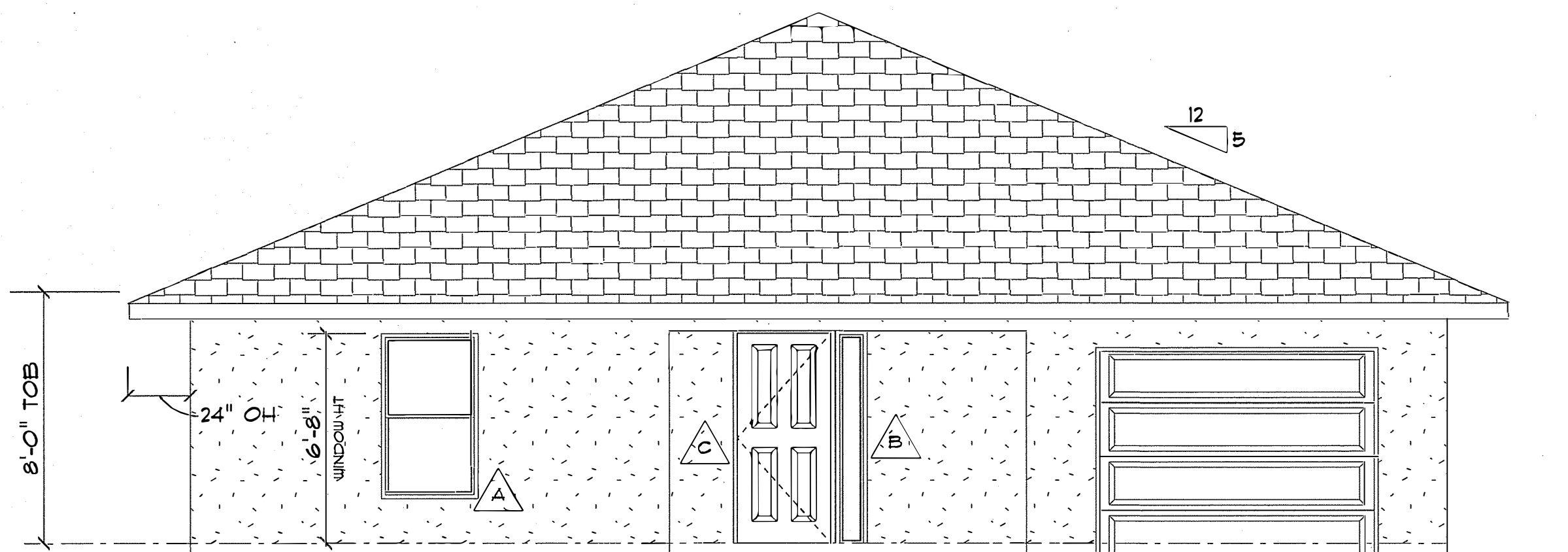
A. 10 SQ. FT. INTERIOR ZONE (4)	+ 29.4 - -31.9
B. 10 SQ. FT. END ZONE (5)	+ 29.4 - -39.4
C. 20 SQ. FT. INTERIOR ZONE (4)	+ 29.3 - -31.8
D. 20 SQ. FT. END ZONE (5)	+ 29.3 - -39.1
E. 20 SQ. FT. END ZONE (5)	+ 28.1 - -37.9



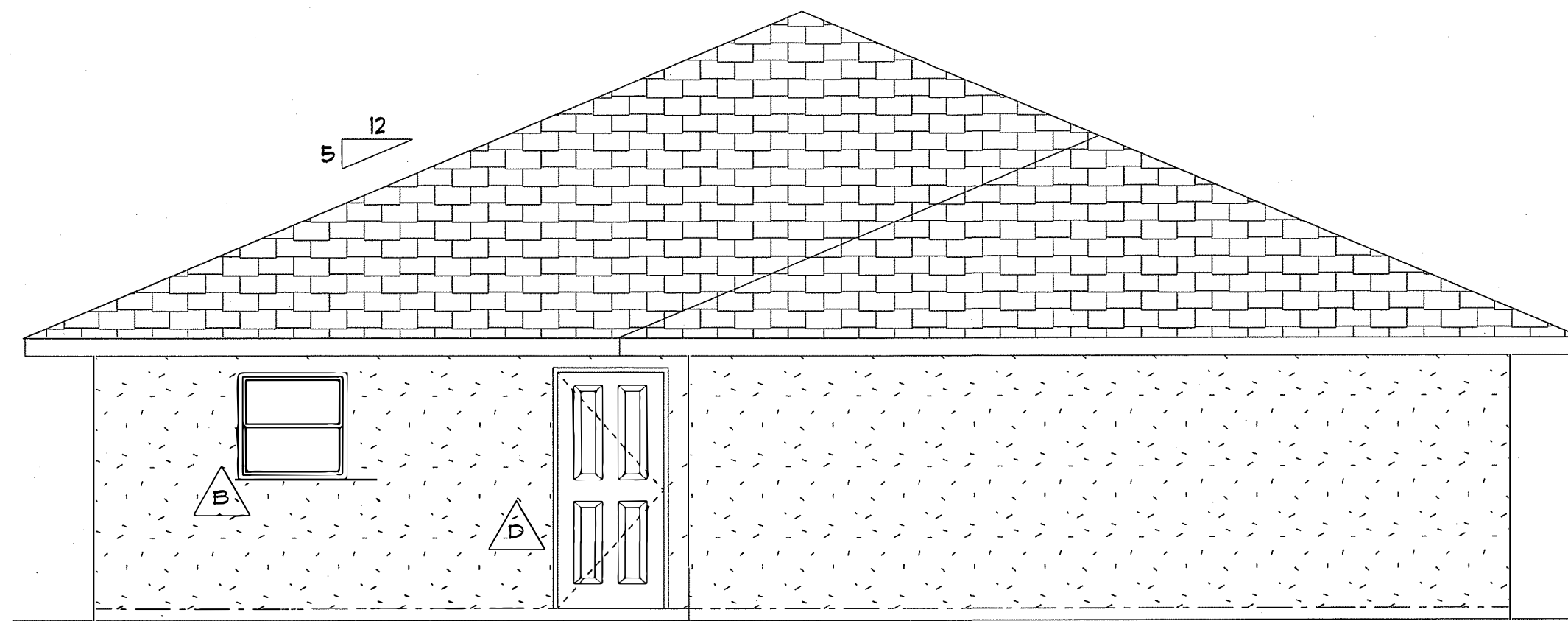
LEFT ELEVATION
1/4" = 1"



RIGHT ELEVATION
1/4" = 1"

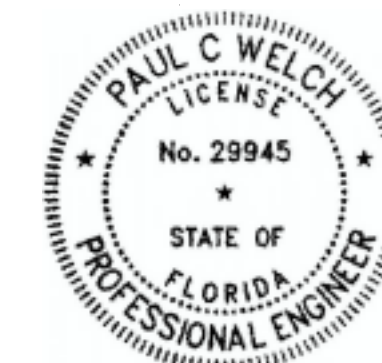


FRONT ELEVATION
1/4" = 1"



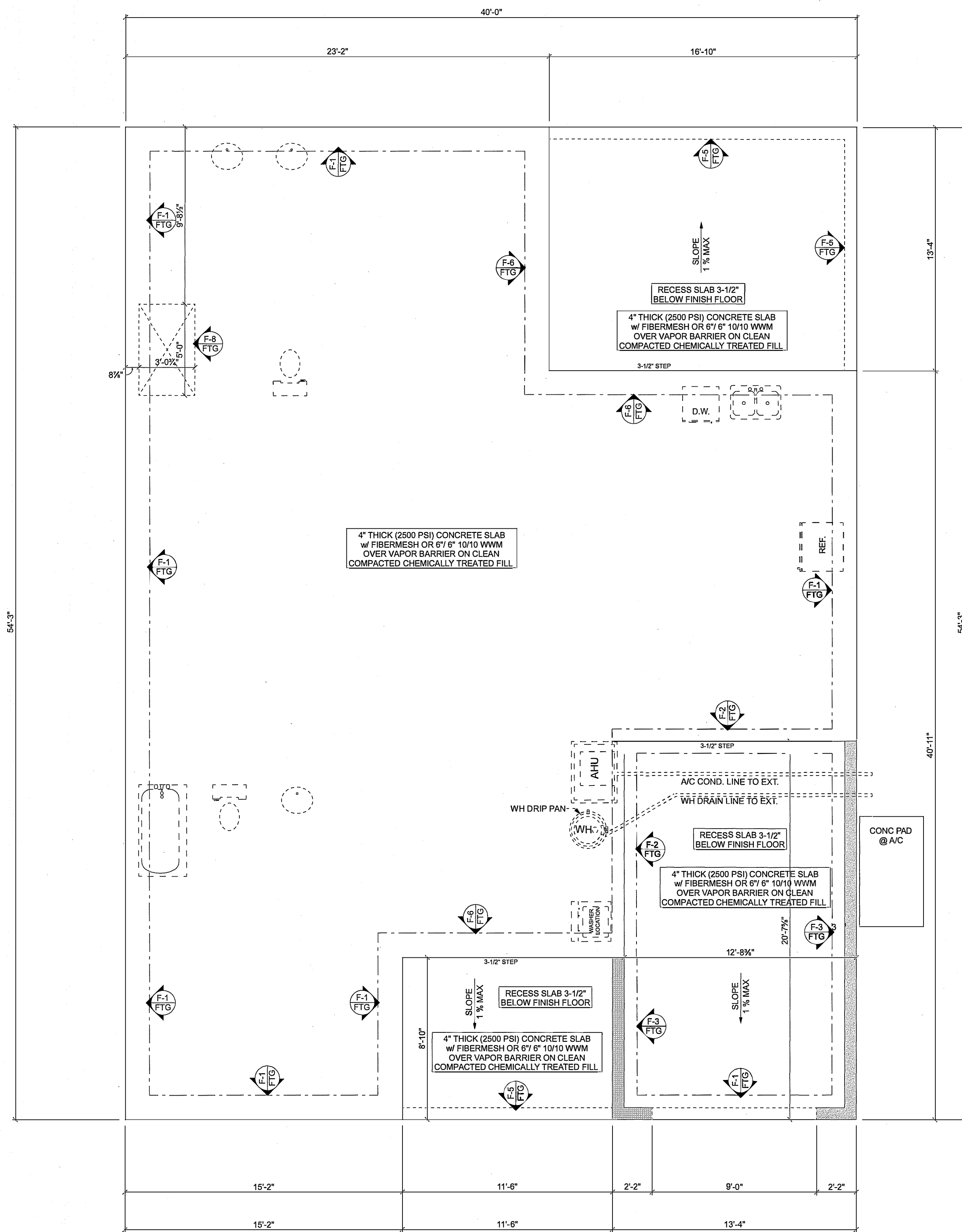
REAR ELEVATION
1/4" = 1"

KIB CONSTRUCTION SPEC HOME
 127 S. 11TH ST., FT. PIERCE, FL.
 INDY: 112 - 224 - 6311



ENGINEER
 PAUL WELCH INC.
 MECHANICAL ELECTRICAL
 CIVIL ENGINEERING
 1984 SW BILTMORE ST., SUITE # 114
 FORT SAINT LUCIE, FL 34984
 PHONE: (772) 789-9888
 EMAIL: P.WELCH@KAGL.COM
 PAUL WELCH P.E.
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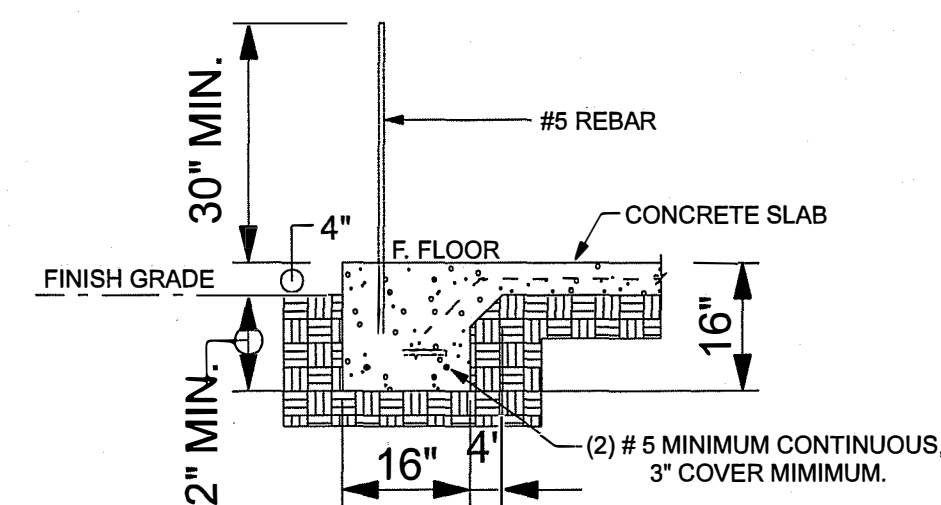
SHEET NUMBER
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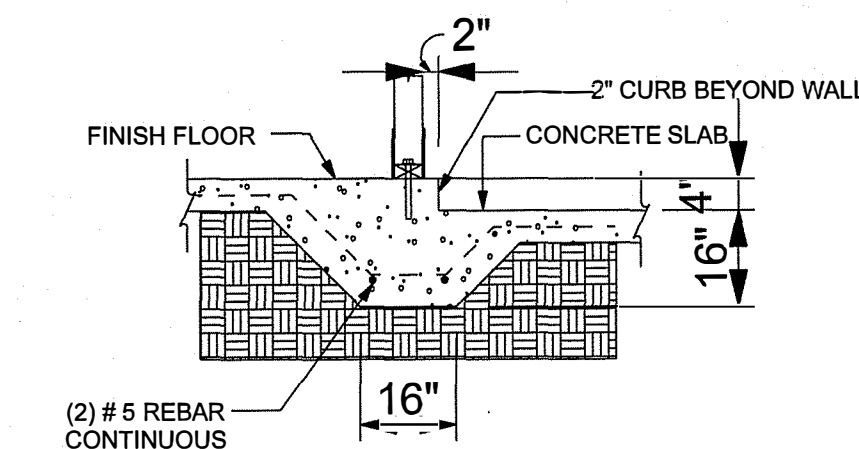
FOUNDATION PLAN
1/4" = 1'

GARAGES FLOOR SURFACE

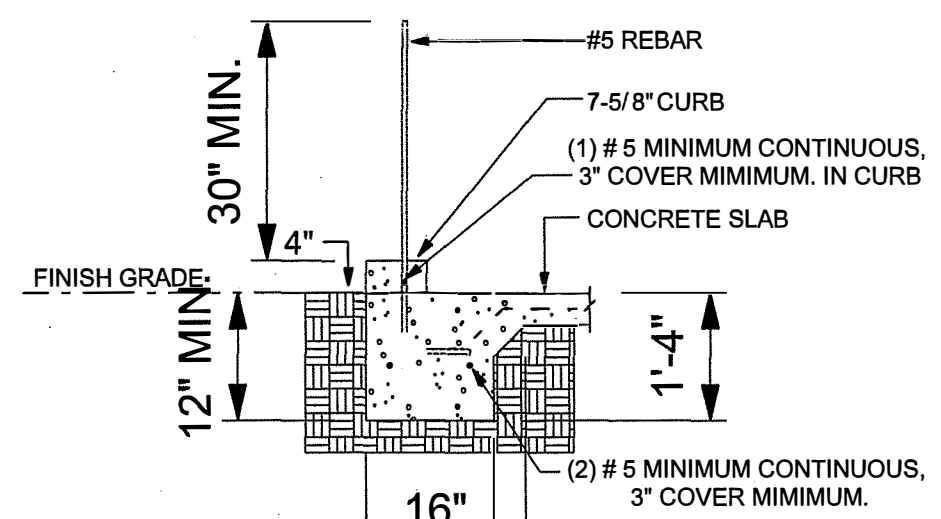
- 1) GARAGE FLOOR SURFACES SHALL BE OF APPROVED NONCOMBUSTIBLE MATERIAL.
- 2) THE AREA OF FLOOR USED FOR PARKING OF AUTOMOBILES OR OTHER VEHICLES SHALL BE SLOPED TO FACILITATE THE MOVEMENT OF LIQUIDS TO A DRAIN OR TOWARD THE MAIN VEHICLE ENTRY DOORWAY.



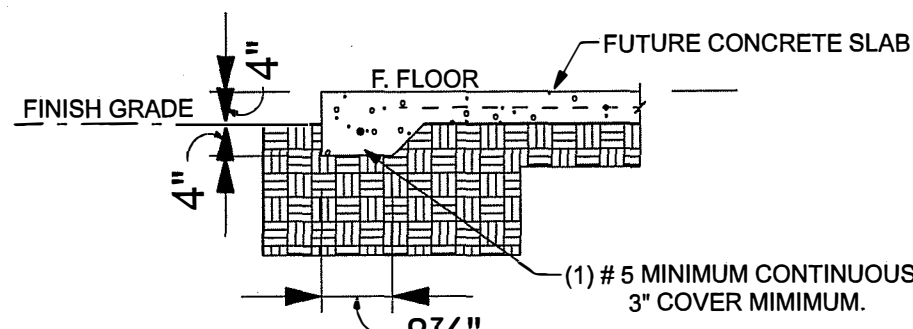
F1 BEARING FOOTING @ 10'H CBS WALLS
SCALE: 1/2" = 1'-0"



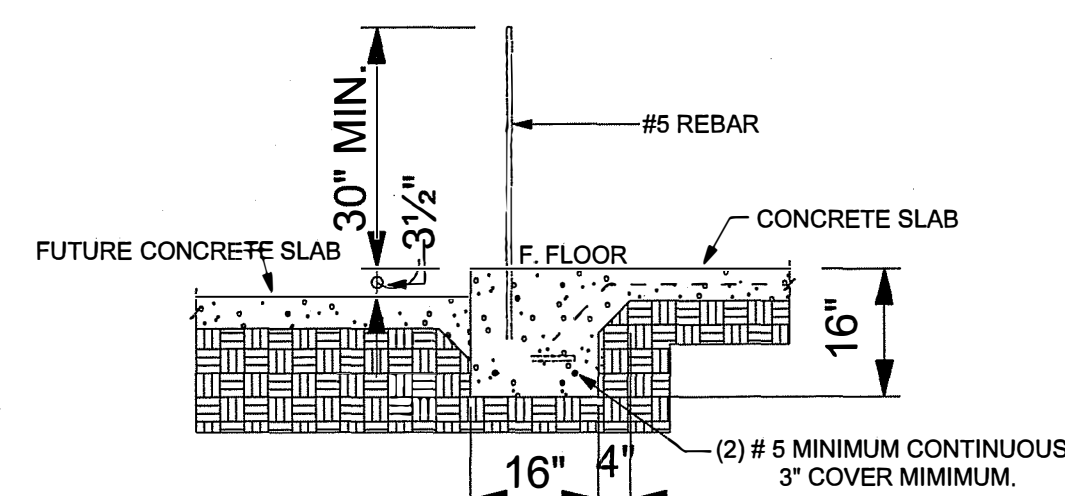
F2 STEP DOWN FOOTING @ GARAGE
SCALE: 1/2" = 1'-0"



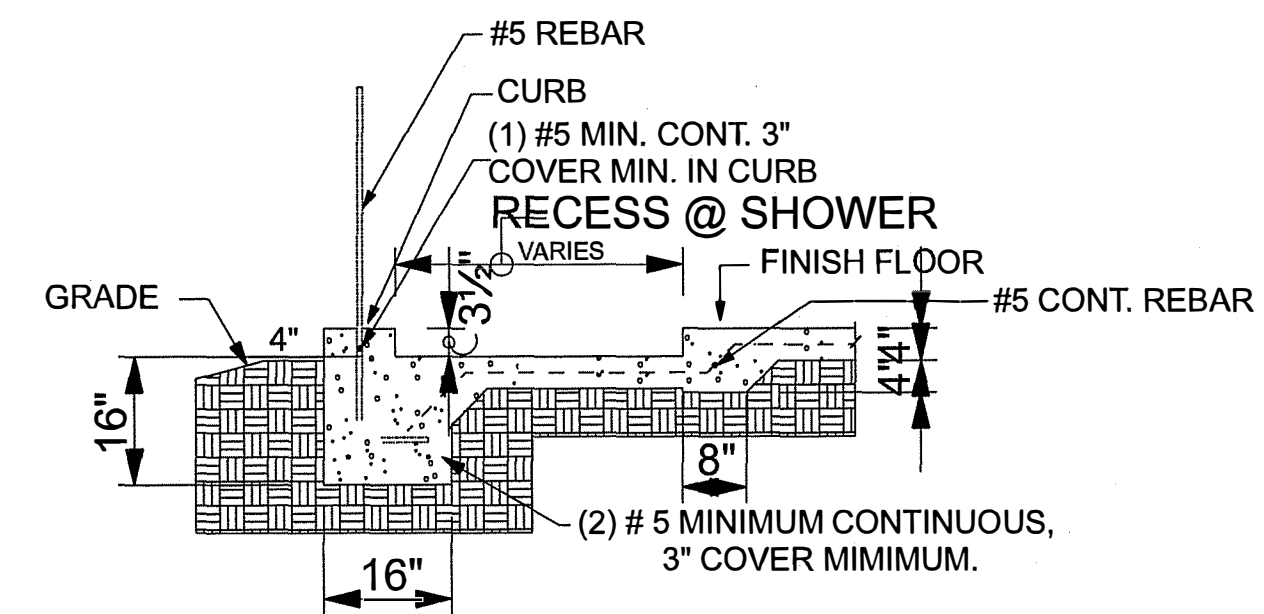
F3 CURB SECTION
SCALE: 1/2" = 1'-0"



F5 ENTRY/PORCH FOOTING @ FUTURE SLAB
SCALE: 1/2" = 1'-0"

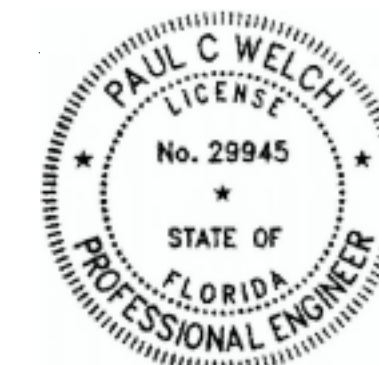


F6 EXTERIOR STEP
SCALE: 1/2" = 1'-0"



F8 SHOWER/CURB/RECESS SECTION
SCALE: 1/2" = 1'-0"

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CIVIL ENGINEERING
1984 6th BILTHORE ST., SUITE # 114
PORT SAINT LUCIE, FL 34984
PHONE: (112) 199-9888
EMAIL: P.WELCH@PWI.COM
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SHEET NUMBER
A-4 OF
7

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

DIAM.	SP	DF	HF	SPF	SPF-S
.131	.88	80.6	69.9	68.4	59.7
.135	.93.5	85.6	74.2	72.6	63.4
.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG					
.128	74.2	67.9	58.9	57.6	50.3
.131	75.9	69.5	60.3	59.0	51.1
.148	81.4	74.5	64.6	63.2	52.5

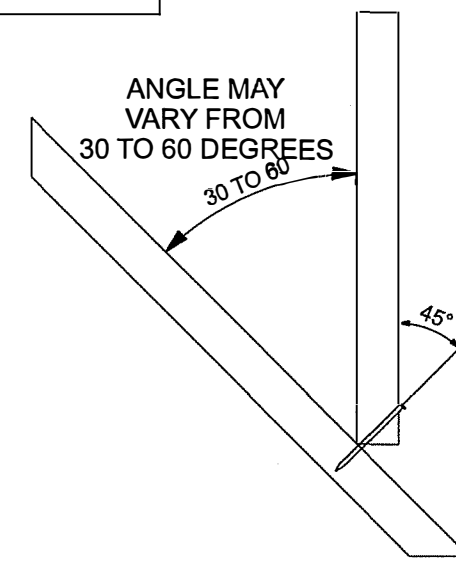
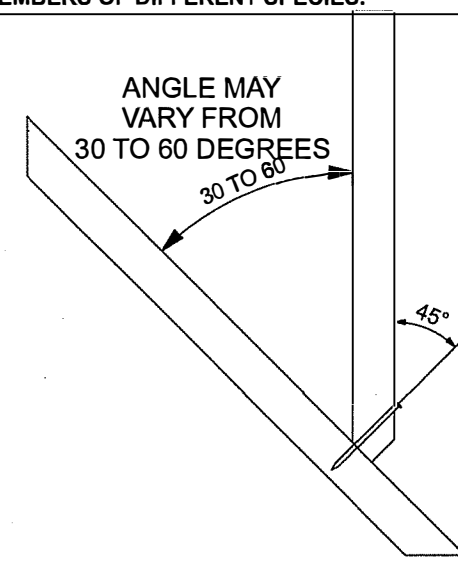
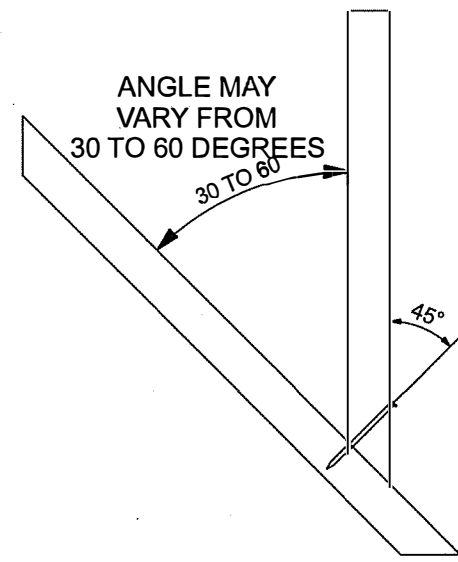
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.
EXAMPLE:
(3) 16d NAILS (.162" DIAM. X 3.5") WITH SPF SPECIES BOTTOM CHORD.
FOR LOAD DURATION INCREASE OF 1.15:
3 NAILS X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb MAXIMUM CAPACITY

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

NOTES

- TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT THE BACK CORNER OF THE MEMBER END AS SHOWN)
- THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.



TOE-NAIL SINGLE SHEAR VALUES PER NDS 2005 (lb/nail)

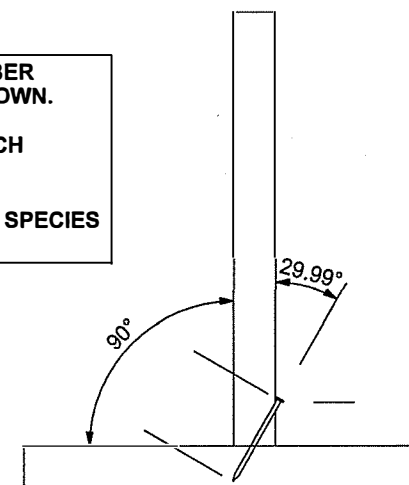
DIAM.	SP	DF	HF	SPF	SPF-S
.131	88.1	80.6	69.9	68.4	59.7
.135	93.5	85.6	74.2	72.6	63.4
.162	118.3	108.3	93.9	91.9	80.2
3.25" LONG					
.128	84.1	76.9	66.7	65.3	57.0
.131	88.1	80.6	69.9	68.4	59.7
.148	106.6	97.6	84.7	82.8	72.3
3.0" LONG					
.120	73.9	67.6	58.7	57.4	50.1
.128	84.1	76.9	66.7	65.3	57.0
.131	88.1	80.6	69.9	68.4	59.7
.148	106.6	97.6	84.7	82.8	72.3

VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.
EXAMPLE:
(3) 16d NAILS (.162" DIAM. X 3.5") WITH SPF SPECIES BOTTOM CHORD.
FOR LOAD DURATION INCREASE OF 1.15:
3 NAILS X 91.9 (lb/nail) X 1.15 (DOL) = 317.0 lb MAXIMUM CAPACITY

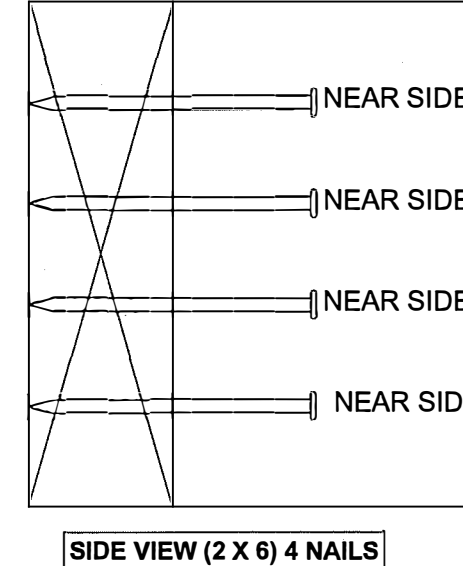
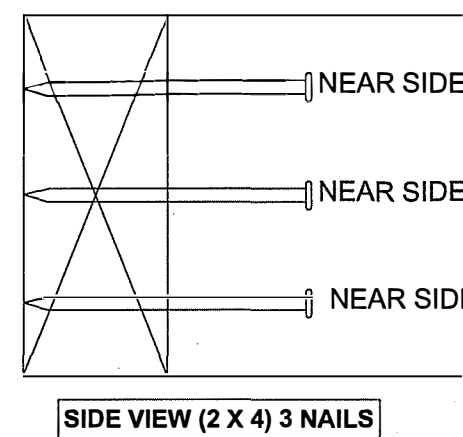
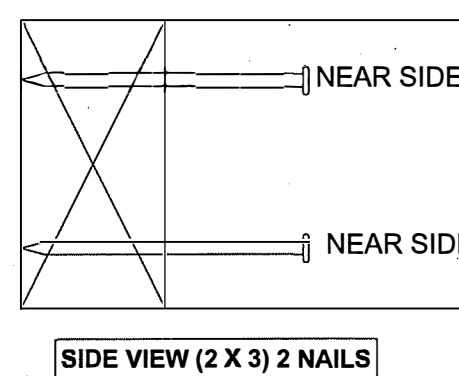
VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

NOTES

- TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END AS SHOWN.
- THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE BOTTOM CHORD SPECIES FOR MEMBERS OF DIFFERENT SPECIES.



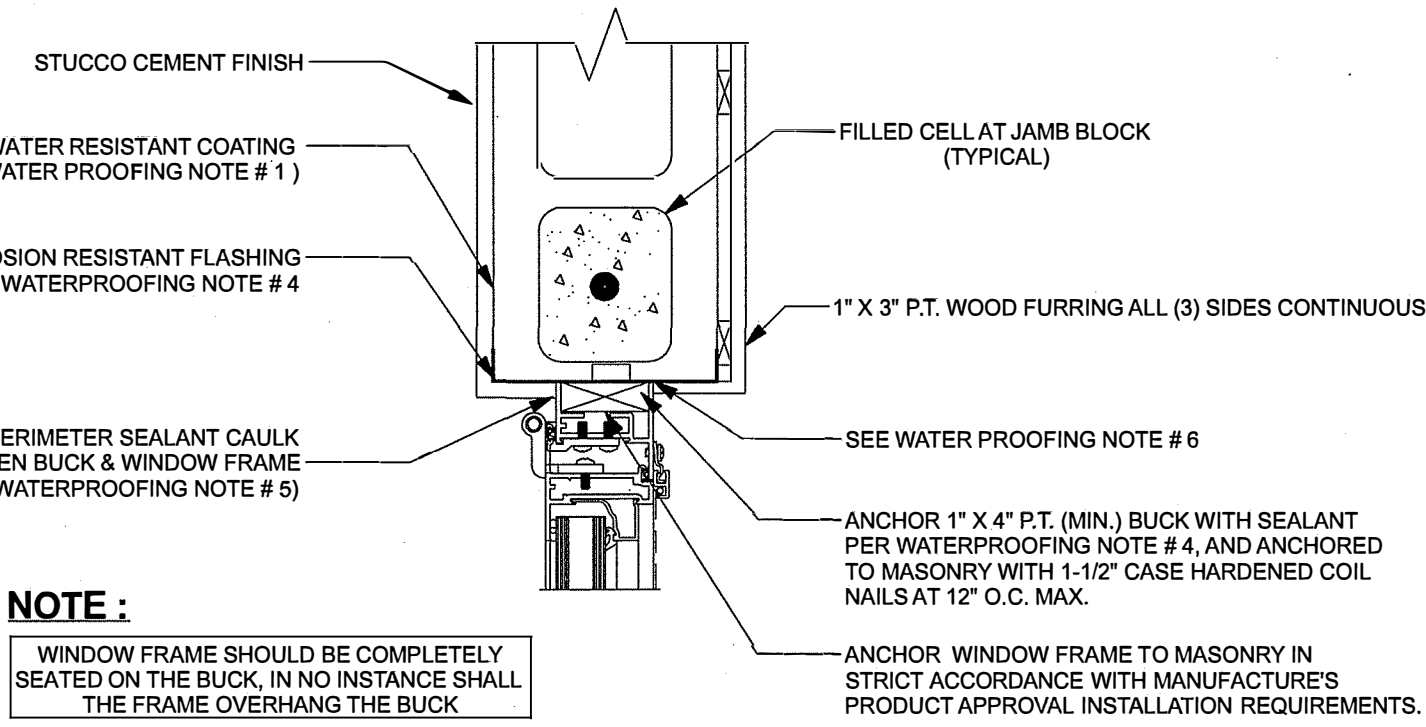
45 DEGREE ANGLE BEVEL CUT



SIDE VIEW (2 X 3) 2 NAILS

SIDE VIEW (2 X 4) 3 NAILS

SIDE VIEW (2 X 6) 4 NAILS

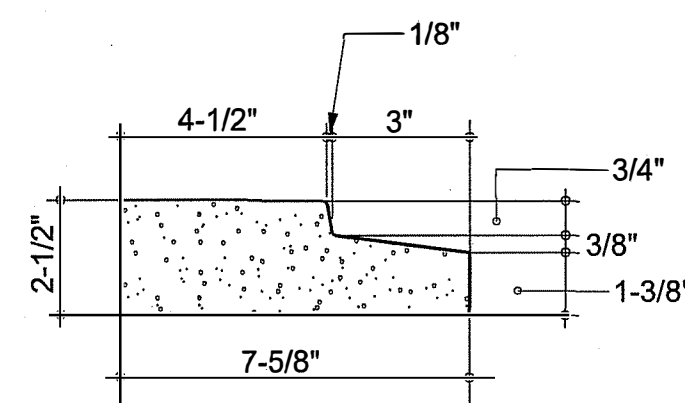


NOTE:
WINDOW FRAME SHOULD BE COMPLETELY SEATED ON THE BUCK. IN NO INSTANCE SHALL THE FRAME OVERHANG THE BUCK.

WINDOW HEADER AND JAMB TYPICAL BUCK DETAIL
NO SCALE

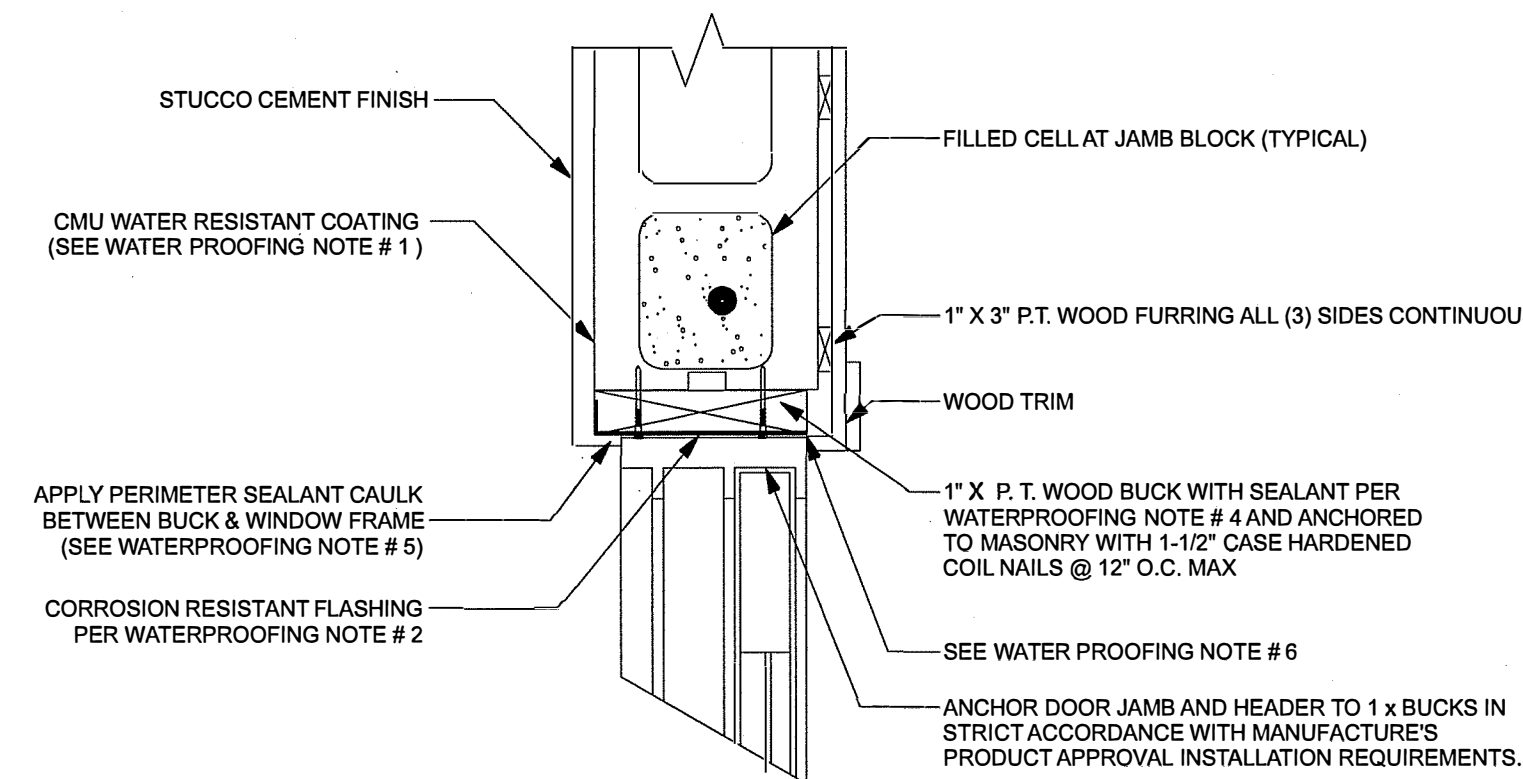
NOTE:

TAPCONS TO BE INSTALLED THRU BUCK INTO MASONRY W/ MIN. 1-1/4" EMBEDMENT PER PRODUCT APPROVAL PER FBC 1715.5.4.3 BUCKS MUST COVER ENTIRE DEPTH OF JAMBS.



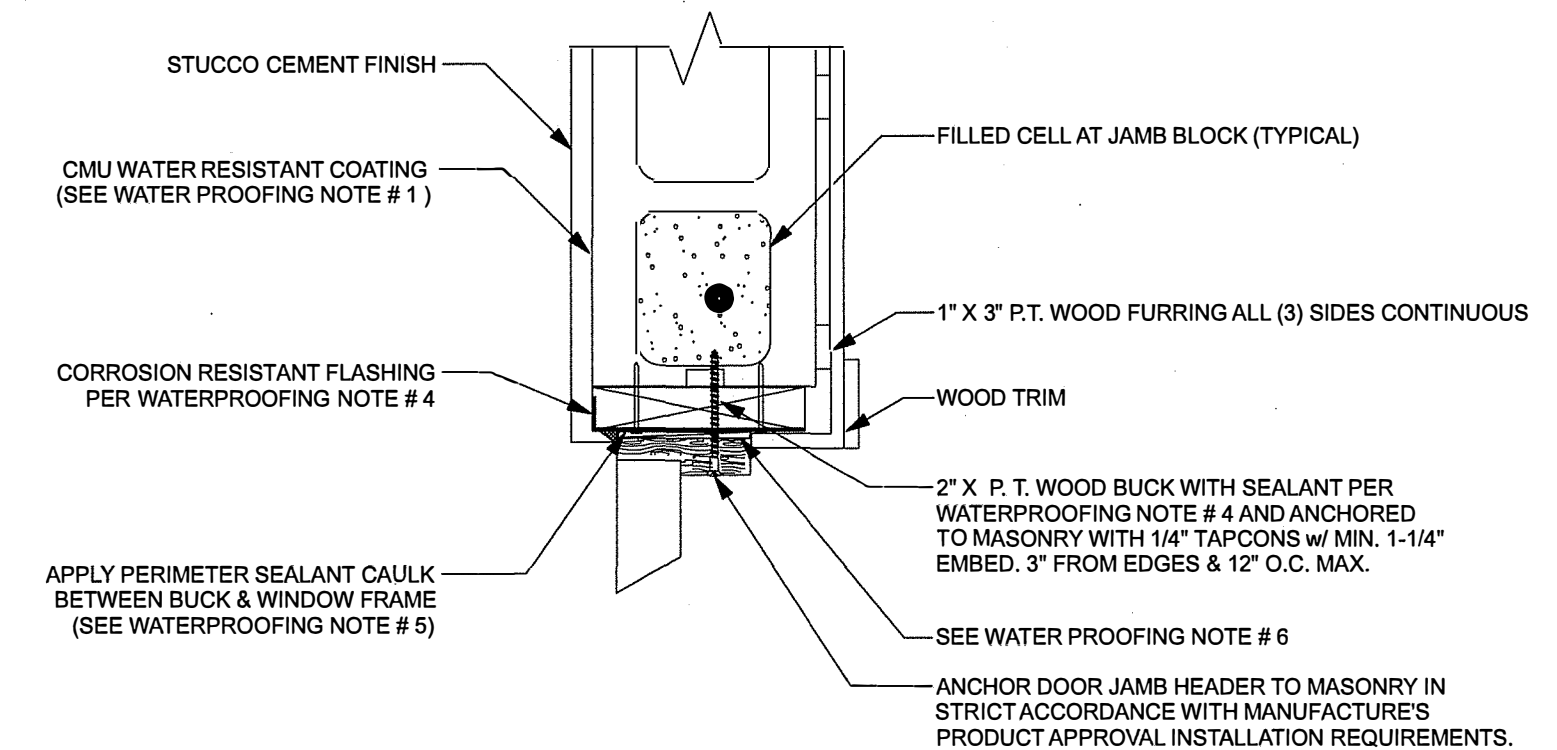
NOTE:
PRECAST CONCRETE WIND RESISTANT FLUSH SILL AS MANUFACTURED BY CAST-CRETE (OR EQUAL)

PRECAST CONCRETE WINDOW SILL DETAIL
NO SCALE



SLIDING GLASS DOOR BUCK DETAIL
NO SCALE

WINDOW AND DOOR FENESTRATIONS IN ACCORDANCE WITH FBC R703.4 (1.2) AS PER DETAILS PROVIDED



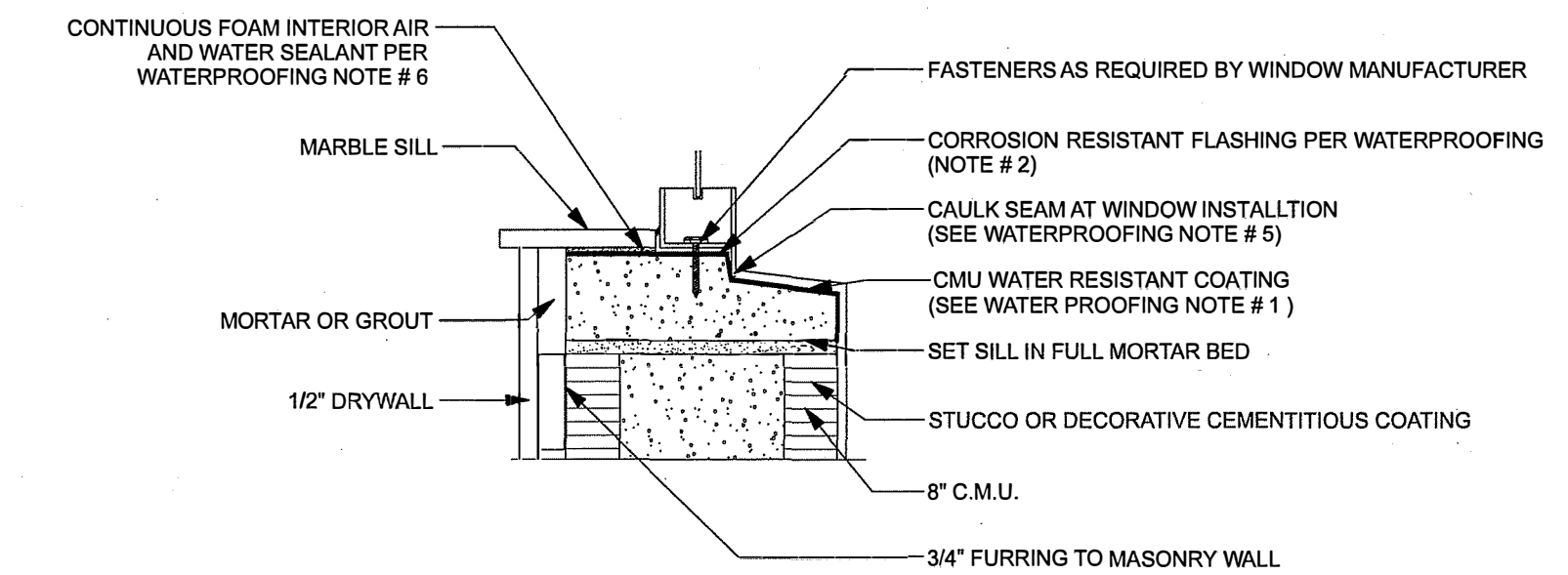
EXTERIOR DOOR BUCK DETAIL
NO SCALE

NOTE:

TAPCONS TO BE INSTALLED THRU BUCK INTO MASONRY W/ MIN. 1-1/4" EMBEDMENT PER PRODUCT APPROVAL PER FBC 1715.5.4.3 BUCKS MUST COVER ENTIRE DEPTH OF JAMBS.

NOTE:

BUCK 2" X 6" P.T. RIPPED DOWN TO 2 X 4-1/8" P.T. W/ 3/16" TAPCONS 1-1/4" MIN. EMB. 4 1/2" O.C. # 10 SCREWS, PER PRODUCT APPROVAL.



WATERPROOFING NOTES:

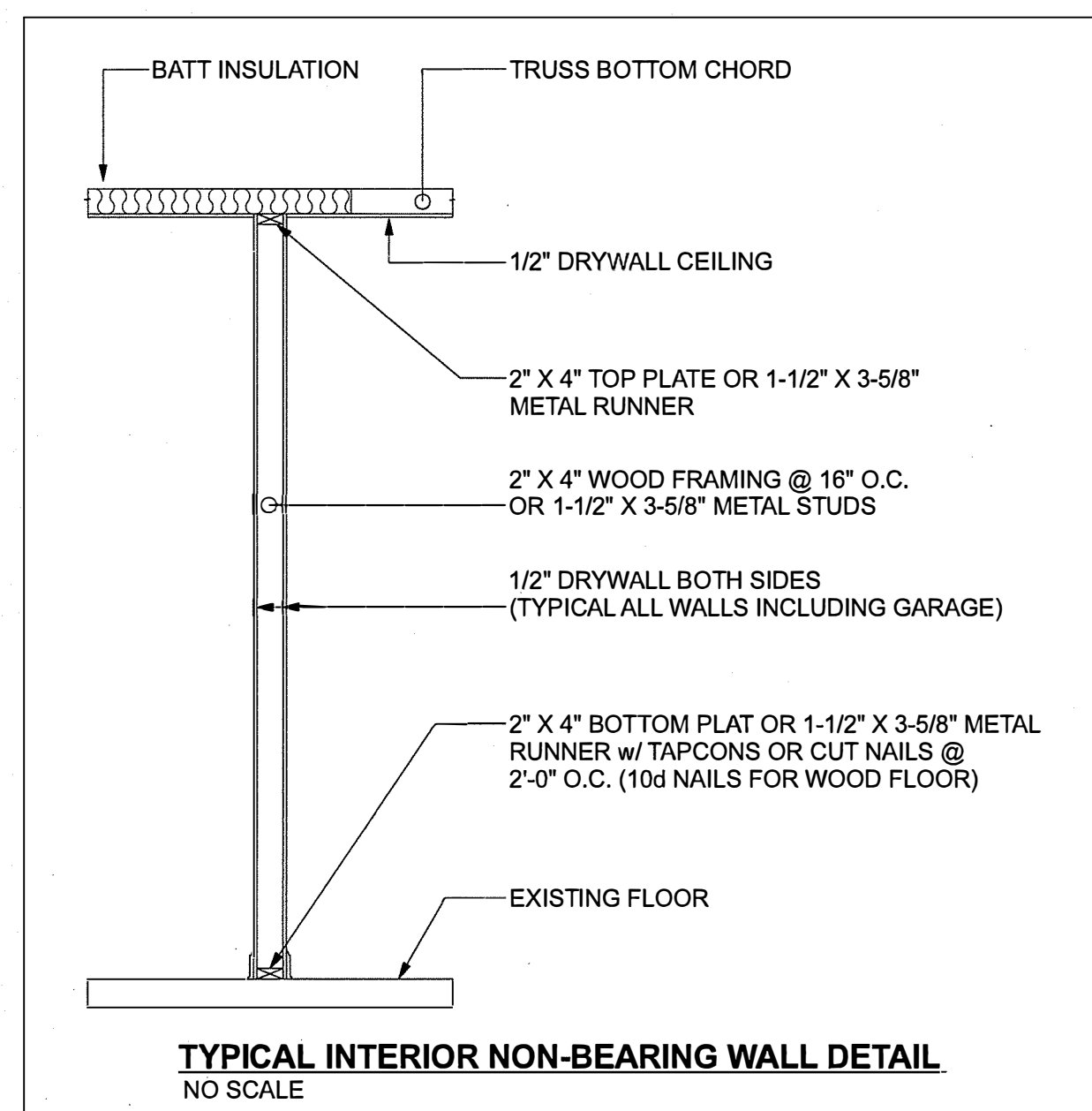
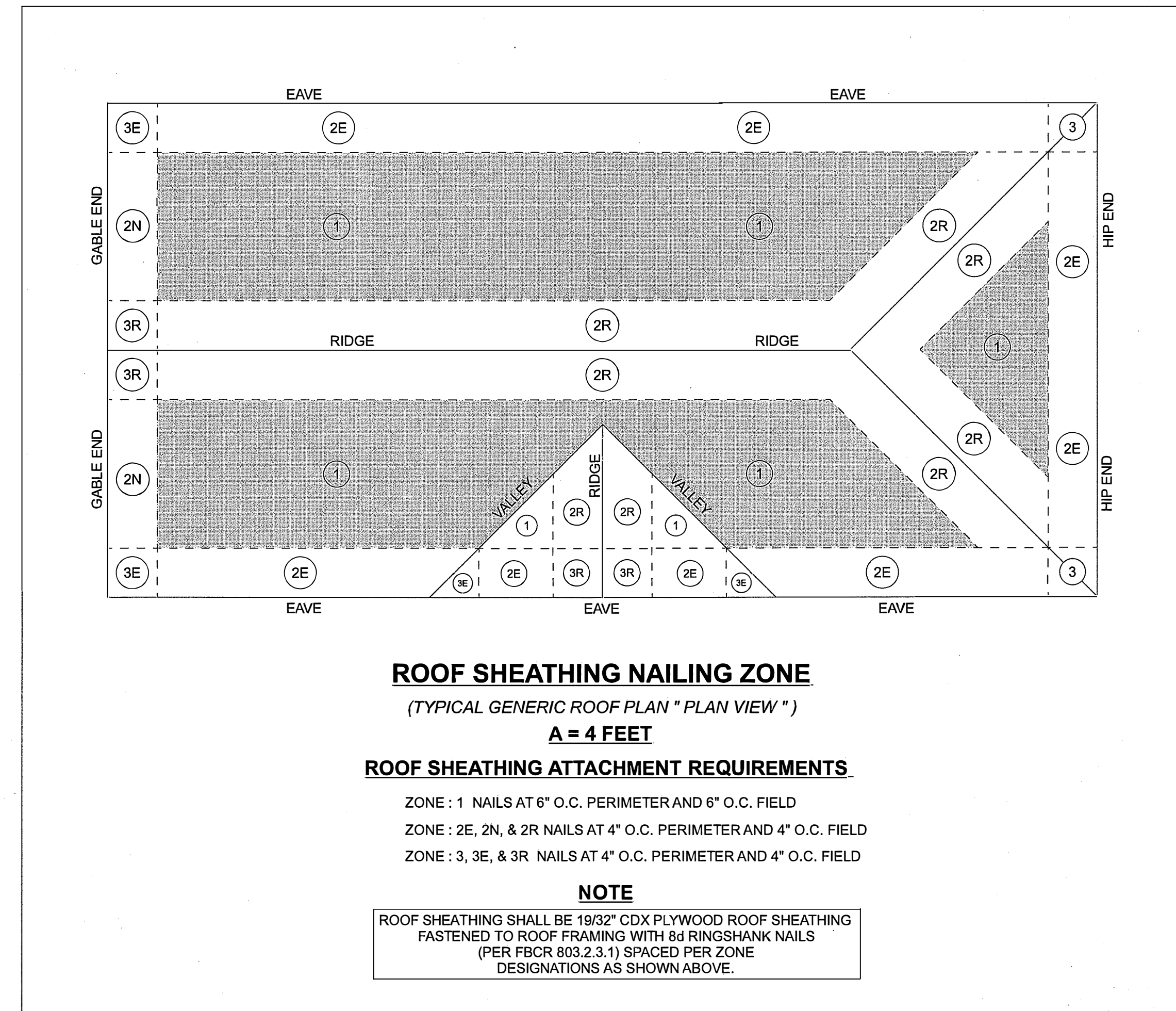
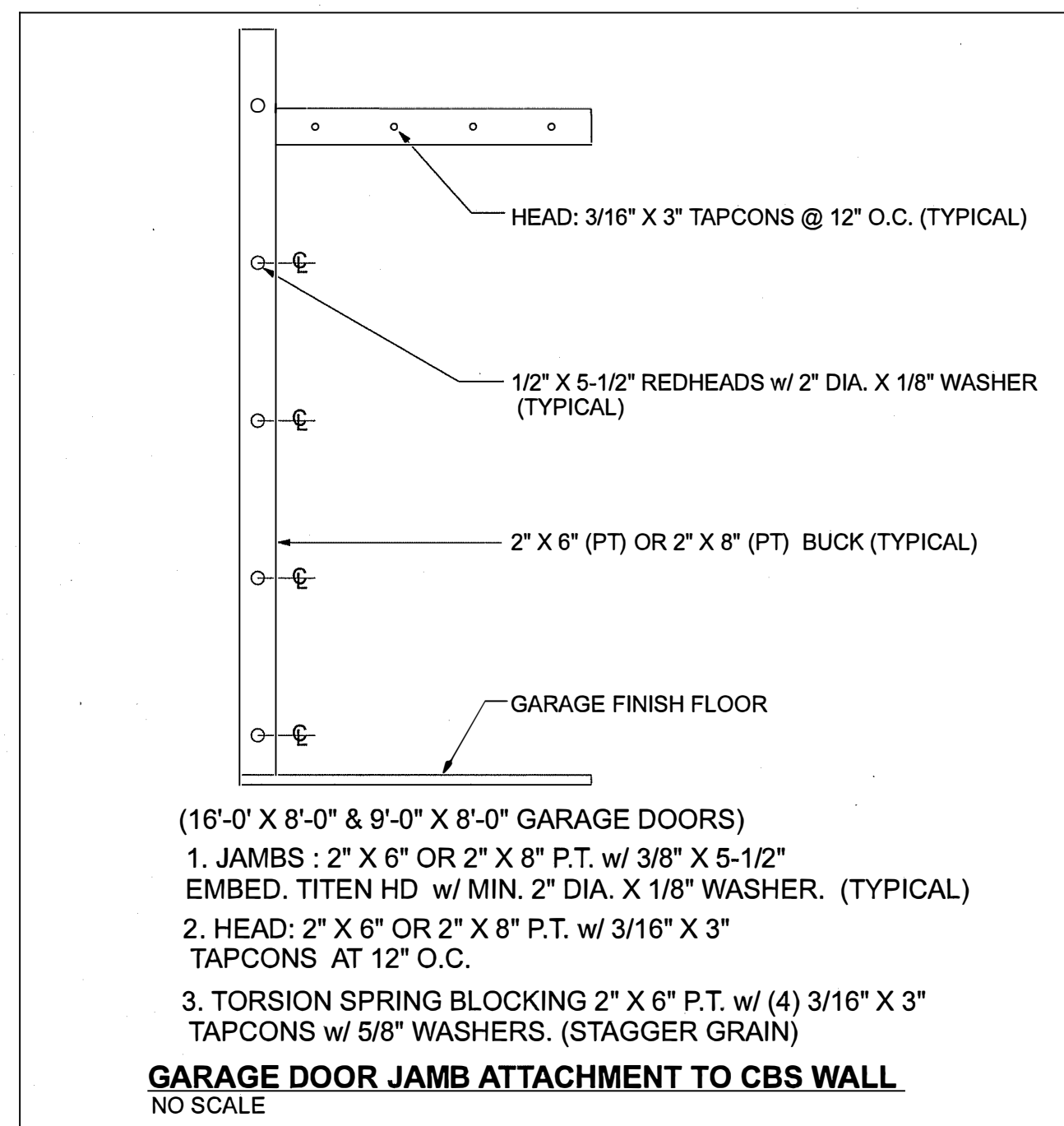
- PRIOR TO BUCK INSTALLATION TREAT THE MASONRY OPENING WITH A CMU WATER RESISTANT COATING TO SEAL THE WINDOW / DOOR CAVITY TO PREVENT IT FROM ABSORBING WATER. THE CMU WATER RESISTANT COATING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE APPLICATION OF THE CMU WATER RESISTANT COATING SHALL INCLUDE THE ENTIRE SURROUND OF THE OPENING (SILLS, JAMBS, HEAD) AND RETURN WALLS OF THE OPENING 8" MINIMUM EACH DIRECTION. ALL CMU WATER RESISTANT COATINGS SHALL BE INSTALLED PRIOR TO BUCK INSTALLATIONS. FBC R703.4 AAAMA-714
- INSTALL BUCKS SO THAT THERE ARE NO EDGE GAPS EXCEEDING 1/8" BETWEEN BUCK AND MASONRY.
- PRIOR TO BUCK INSTALLATION APPLY 3/8" NOMINAL DIAMETER BEAD OF SEALANT BETWEEN THE BUCK AND THE MASONRY TO PREVENT THE PASSAGE OF LIQUID BEHIND THE BUCK. COMPLETELY SEAL THE ENTIRE END OF THE WOOD BUCKS WITH SEALANT TO RESTRICT THE PASSAGE OF LIQUID THROUGH THE CUT ENDS AND THE ENTIRE EXTERIOR FACE AND RETURN SURFACE OF THE BUCK SHALL BE COATED WITH A LIQUID APPLIED WATER RESISTIVE COATING / SEALANT.
- PROVIDE PAN FLASHING AT THE SILL OF WINDOW AND DOOR OPENINGS. PAN FLASHING SHALL BE SEALED OR SLOPED IN A MANNER TO DIRECT WATER TO THE SURFACE OF THE EXTERIOR WATER RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE. INCORPORATE PAN FLASHING AT HEAD AND SILL AS WELL. PAN FLASHING SHALL BE CORROSION RESISTANT. (OPTIONAL, NOT REQUIRED)
- PROVIDE CONTINUOUS 3/8" BEAD OF SEALANT ON WINDOW / DOOR FRAMES AT ALL PERIMETER ON FRONT AND BACK SURFACE PRIOR TO WINDOW / DOOR INSTALLATION.
- AFTER WINDOW / DOOR INSTALLATION PROVIDE FOAM SEALANT BETWEEN THE BUCK (OR PRECAST SILL) AND THE WINDOW / DOOR TO ENSURE A WATER RESISTANT INTERIOR AIR SEAL AROUND THE ENTIRE PERIMETER.



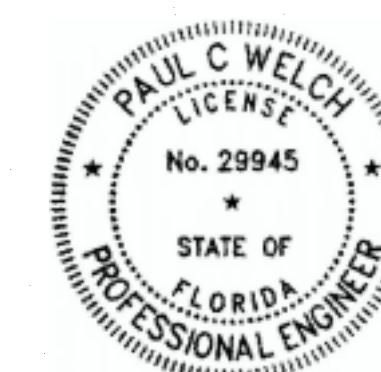
ENGINEER
PAUL WELCH INC.
MECHANICAL ELECTRICAL
CIVIL ENGINEERING
1984 SU BILTHORE ST., SUITE # 114
PORT SAINT LUCIE, FL 34984
PHONE: (1712) 885-9888
EMAIL: PWELCH@AOL.COM
PAUL WELCH P.E.
FLORIDA REGISTRATION NO. 29945

KIB CONSTRUCTION SPEC HOME
121 S. 11TH ST., FT. PIERCE, FL.
INDY: T12 - 224 - 6311

SHEET NUMBER
A-5 OF
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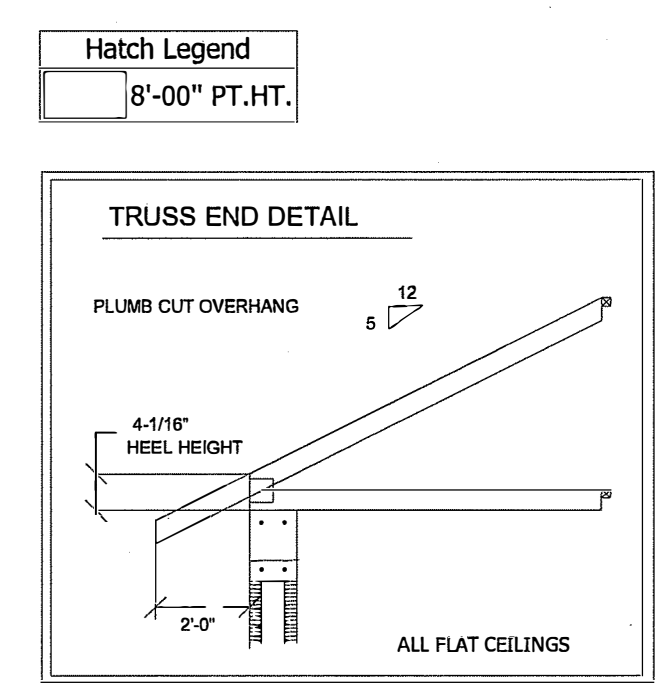
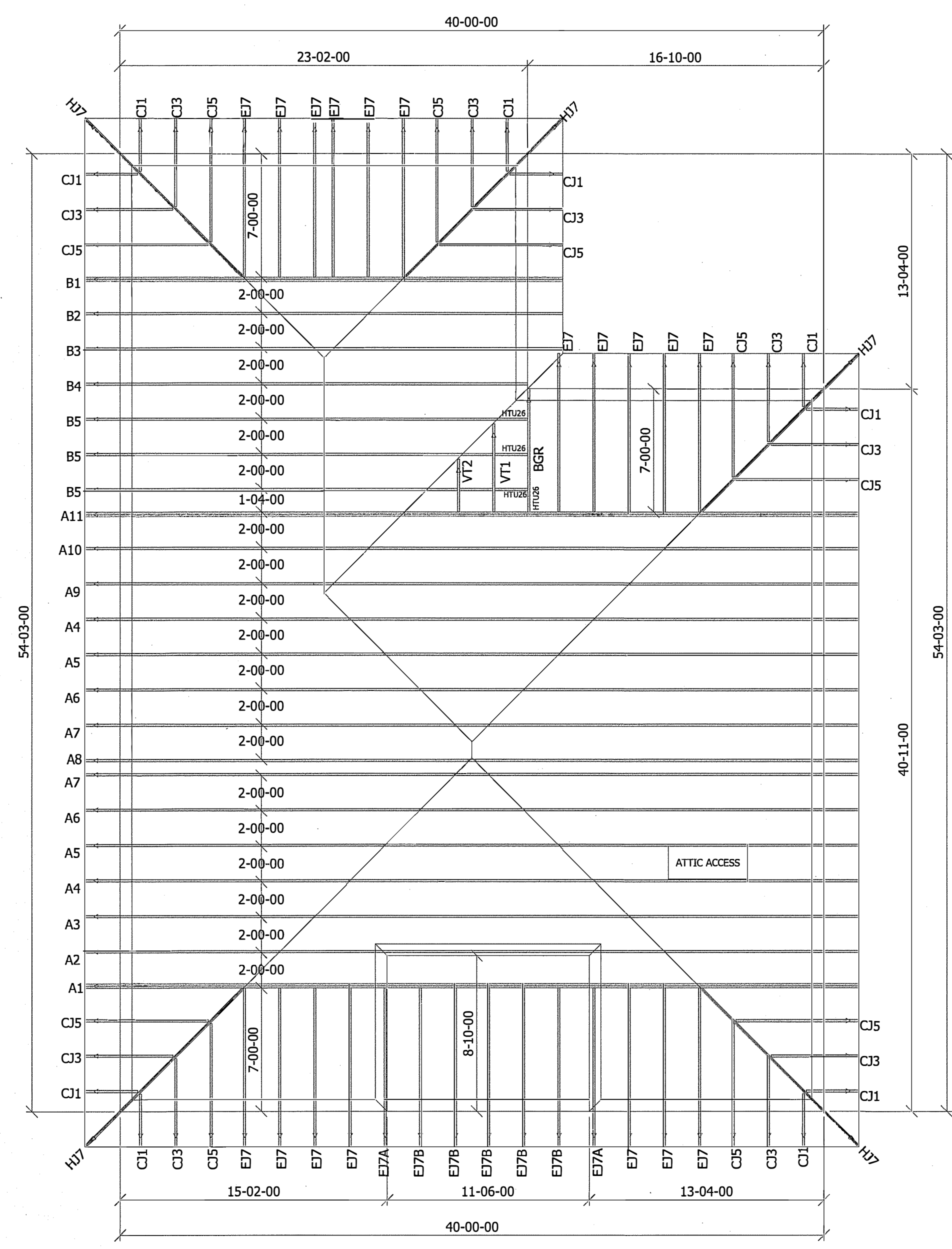


KIB CONSTRUCTION SPEC HOME
T2T 6. 11TH ST., FT. PIERCE, FL.
INDY: T12 - 224 - 6311



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PAUL WELCH INC.
MECHANICAL & ELECTRICAL
CIVIL ENGINEERING
1984 6th BILTHORE ST., SUITE # 114
PORT SAINT LUCIE, FL 34984
PHONE : (T12) 769-9888
EMAIL: PUE@KIBCON.COM
PAUL WELCH P.E.
FLORIDA REGISTRATION NO. 29945

SHEET NUMBER
A-6 OF
7



Builders FirstSource
 1602 INDUSTRIAL PARK DR
 PLANT CITY FL
 Phone: (813) 759-5922
 Fax: (813) 752-1532
 http://www.blfr.com

General Notes:
 - Per ANSI/TPI 1-2007 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
 - Dimensions are Feet-Inches-Sixteenths.
 - Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
 - Trusses are not designed to support brick U.N.O.
 - Do not cut or modify trusses without first contacting Builders FirstSource.
 - Immediately contact Builders FirstSource if trusses are damaged.
Connection Notes:
 - All hangers are to be Simpson or equivalent U.N.O.
 - Use Manufacturer's specifications for all hanger connections U.N.O.
 - Use 10d x 1 1/2" Nails in hanger connections to single ply roof gilder trusses.
Floor Truss Notes:
 - Shift truss as required to avoid plumbing traps.
 - Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation.
Dimension Notes:
 - Drawing not to scale. Do not scale dimensions

INDY BAKSH
BAKSH RES
 Lot-727-11

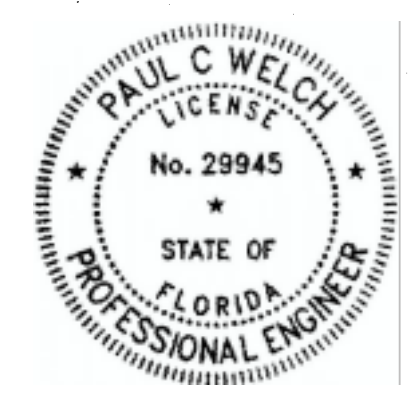
Designed By: LR
 Layout: 3319081_LAY
 Date: 12/02/22
 Revision History:
 Rev1: [???]
 Rev2: [???]
 Rev3: [???]

Comments:***
 SCALE: 1/8" = 1' -0"
 SHEET 1 of 1

TRUSS CONNECTOR SCHEDULE						
TRUSS ID	BEARING POINT	TRUSS ACTUAL UPLIFT	CONNECTOR ID	CONNECTOR UPLIFT DESIGN	FASTENERS	NOTES
A1	EACH	1706	(1)-HETA 20	1810	(8)-16d	
A11	EACH	2188	(2)-HETA 20	2500	(12)-16d	
B1	EACH	1173	(1)-HETA 20	1810	(8)-16d	
JACKS	1ST	<500	HETA 20	1810	(9)-10d x 1 1/2"	VERIFY
VALLEYS & PIGGY BACKS	CONT.	100 # PLF	() - MTS 16	1000	(14)-10d x 1 1/2"	①
					↑ 1 STRAP AT EACH END AND AT 24" O.C.	
ALL OTHERS AT CBS BEARING LESS THAN 1800#	EACH	<1800#	(1)-HETA 20	1810	(9)-10d x 1 1/2"	AT CBS BEARING
ALL OTHERS AT FRAME BEARING LESS THAN 1000#	EACH	<1000#	(1)-MTS 16	1000	(14)-10d x 1 1/2"	AT FRAME BEARING
TRUSS COMPANY	BUILDERS 1ST SOURCE	LAYOUT DATE	12/2/2022	CUT-SHEET DATE	12/2/2022	

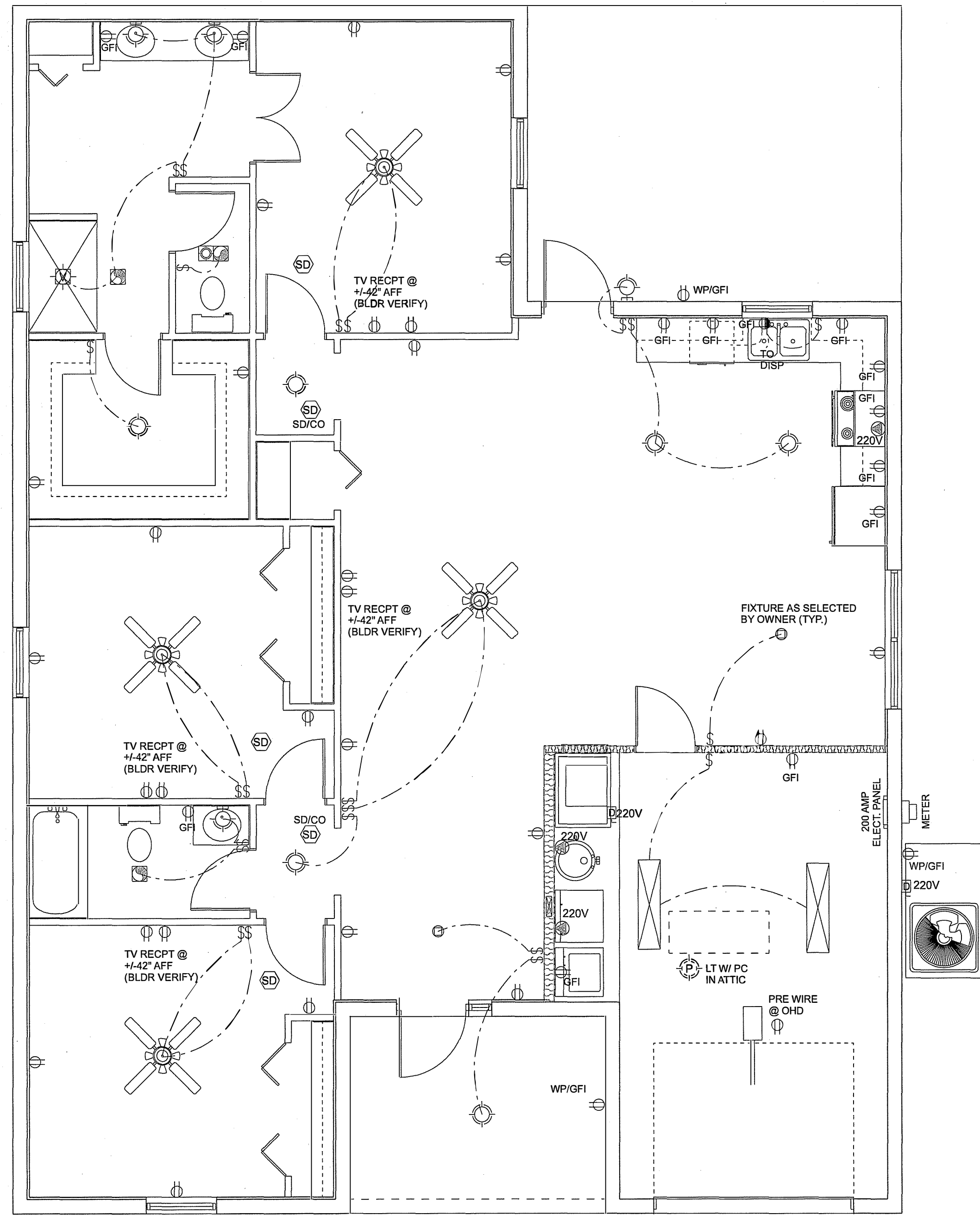
NOTE: ALL STRAPPING TO BE SIMPSON STRONG-TIE AS SPECIFIED.
 NOTES:
 ① VALLEY TRUSSES MAY BE ATTACHED WITH SIMPSON VTRC W/ (4)- #9 SD X 2 1/2" TO SUPPORTING TRUSS AND (3)- #9 SD X 1 1/2" TO VALLEY TRUSS IN LIEU OF MTS16 AS STATED. VTRC SHALL BE INSTALLED AT EACH END AND 24" O.C. MAX.
TRUSS NOTES:
 1) ALL ROOF TRUSSES TO BE DESIGNED BY TRUSS COMPANY'S ENGINEER.
 2) CONTRACTOR TO PROVIDE PAUL WELCH INC. AND BUILDING DEPARTMENT WITH ENGINEERED TRUSS DRAWINGS BEFORE INSTALLING TRUSSES.
 3) CONTRACTOR TO VERIFY ALL EXISTING ROOF CONDITIONS, AND DIMENSIONS BEFORE ORDERING, AND INSTALLING TRUSSES.
 4) TRUSS TO TRUSS CONNECTIONS TO BE PROVIDED BY TRUSS COMPANY.
 5) SEE TRUSS CONNECTOR SCH. FOR TRUSS TO WALL CONNECTIONS.

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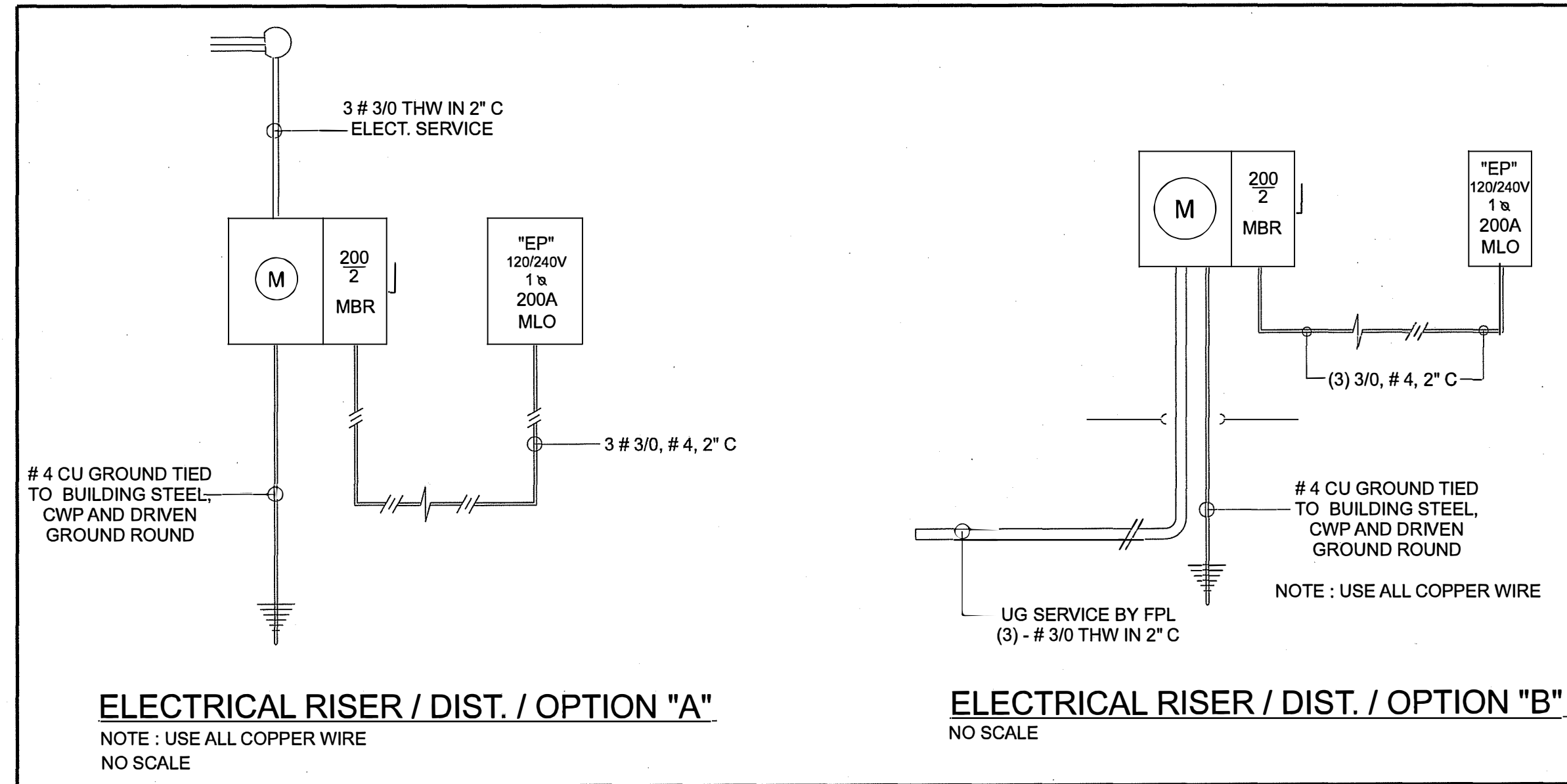


ENGINEER
 PAUL WELCH INC.
 MECHANICAL & ELECTRICAL
 CIVIL ENGINEERING
 1984 8th BILTHORE ST., SUITE # 114
 PORT SAINT LUCIE, FL 34984
 PHONE: (772) 888-8888
 EMAIL: P.WELCH@PAWELCH.COM
 PAUL WELCH P.E.
 FLORIDA REGISTRATION NO. 29945

SHEET NUMBER
 A-1 OF 7



ELECTRIC PLAN
1/4" = 1'



ELECTRICAL LOAD CALC'S
PER NEC 220

1542 S.F. @ 3 VA	4626 VA
TWO 20A APPLIANCE CKTS	3000
LAUNDRY	1500
DRYER	5000
RANGE	12000
WH	4500
DW	1200
WP TUB	1200
REFRIG	1200
MISC	5000
TOTAL	39226 VA
FIRST 10 KW @ 100%	10000
REMAINDER @ 40%	11690.4
TOTAL	21690.4
A/C HEAT @ 100%	10000
TOTAL	31690.4 VA
31690.4 VA / 240V	= 132.0433 AMPS
USE 200 AMP SERVICE	

ELECTRICAL SYMBOL LEGEND

SWITCH	⊞	THERMOSTAT	⊞	GFI OUTLET	⊞
3-WAY SWITCH	⊞	SDICO DETECTOR	⊞	FLUORESCENT LIGHT	⊞
4-WAY SWITCH	⊞	EXHAUST FAN	⊞	GARAGE DOOR OPENER	⊞
DIMMER SWITCH	⊞	DOOR CHIMES	⊞	CEILING FAN	⊞
PUSH BUTTON	⊞	ALARM PAD	⊞	CEILING FAN w/LIGHT	⊞
WP-GFI OUTLET	⊞	SERVICE PANEL	⊞	PENDANT PREWIRE	⊞
110V OUTLET	⊞	SERVICE METER	⊞	SCONCE PREWIRE	⊞
220V OUTLET	⊞	LIGHT FIXTURE	⊞		
4-PLEX OUTLET	⊞	WALL MOUNTED LIGHT FIXTURE	⊞		
SWITCHED OUTLET	⊞	LIGHT FIXTURE w/PULL SWITCH	⊞		
SPECIAL PURPOSE	⊞	RECESSED LIGHT	⊞		
JUNCTION BOX	⊞	VAPOR PROOF RECESSED LIGHT	⊞		
A/C DISCONNECT	⊞	FLOOD LIGHT	⊞		
PHONE OUTLET	⊞	E. FAN LIGHT	⊞		
TV OUTLET	⊞				
FLOOR OUTLET	⊞				

NOTE TO BUILDER:
ALL BEDROOM OUTLETS MUST BE ARC FAULT PROTECTION OUTLETS PER NEC 210-12(b)
SMOKE DETECTORS SHALL BE WIRED TO COMPLY WITH NFPA 72

ELECTRICAL NOTES

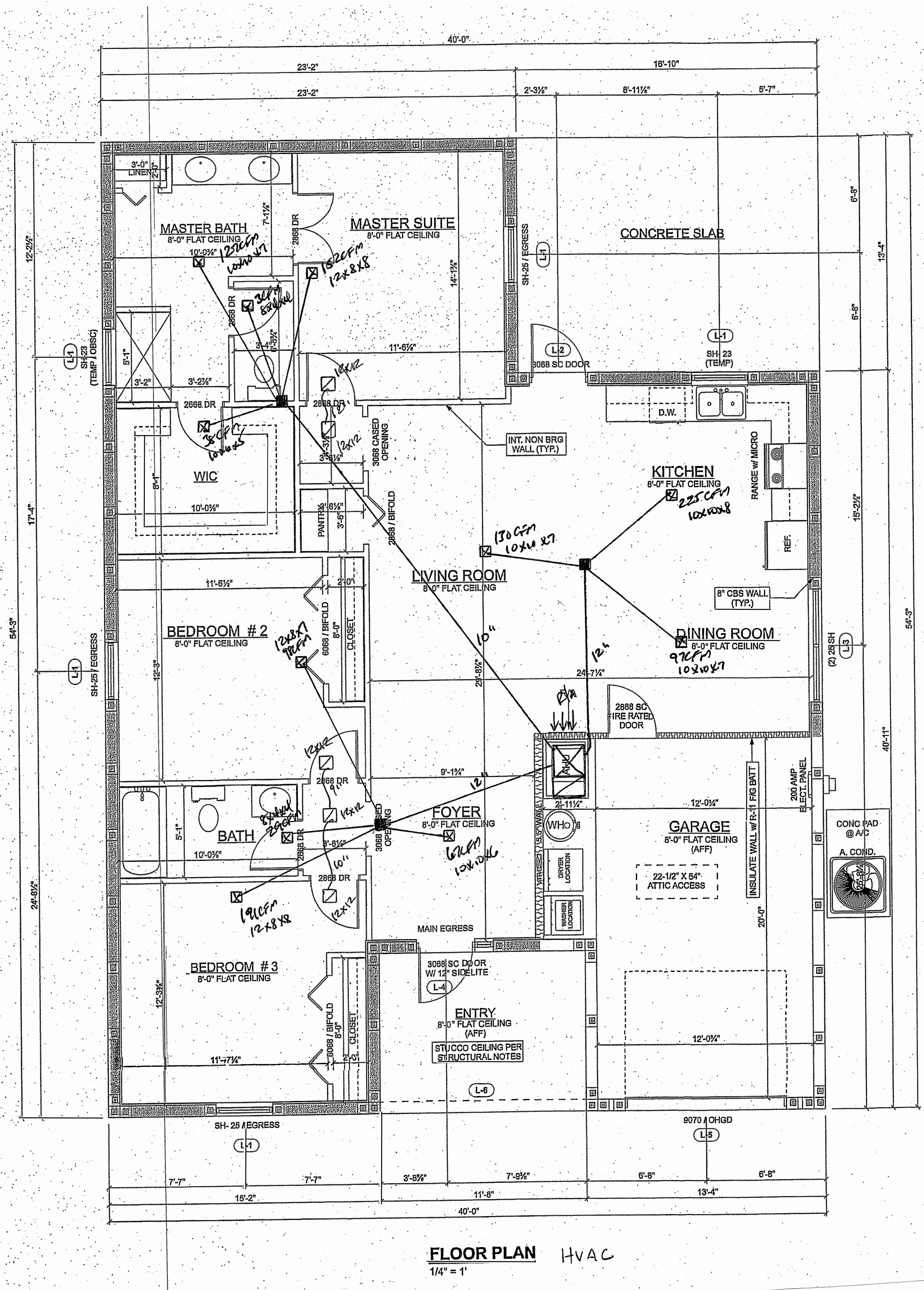
- 1) ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NEC (NFPA 70) 2017 EDITION.
- 2) A MINIMUM OF 75% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFACY LAMPS OR A MINIMUM OF 75% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFACY LAMPS. (LOW VOLTAGE LIGHTING SHALL NOT BE REQUIRED TO BE HIGH-EFFACY LAMPS)
- 3) RECESSED LIGHTING SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES.
- 4) SMOKE DETECTORS TO BE 110V W/ BATTERY BACK UP - ARC FAULT CIRCUIT
- 5) SMOKE DETECTORS TO BE INTERCONNECTED SO THAT ONE SMOKE DETECTOR ACTIVATES ALL SMOKE DETECTORS IN THE RESIDENCE
- 6) PROVIDE BRANCH CIRCUIT ARC-FAULT PROTECTION FOR ALL CIRCUITS SERVING: FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS PER FBC AND NEC REQUIREMENTS.
- 7) PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR ALL 125-VOLT, SINGLE-PHASE 15 AND 20 AMP CIRCUITS SERVING: BATHROOMS, GARAGES, KITCHENS, ACCESSORY BUILDINGS, OUTDOORS, OR WITHIN 72" OF EDGE OF ANY SINK.
- 8) CARBON MONOXIDE DETECTORS TO BE INSTALLED WITHIN 10' OF ALL BEDROOMS.
- 9) EXHAUST FANS TO BE VENTED THRU ROOF OR SOFFIT.
- 10) PROVIDE TAMPER RESISTANT RECPICLES PER NEC REQUIREMENTS.

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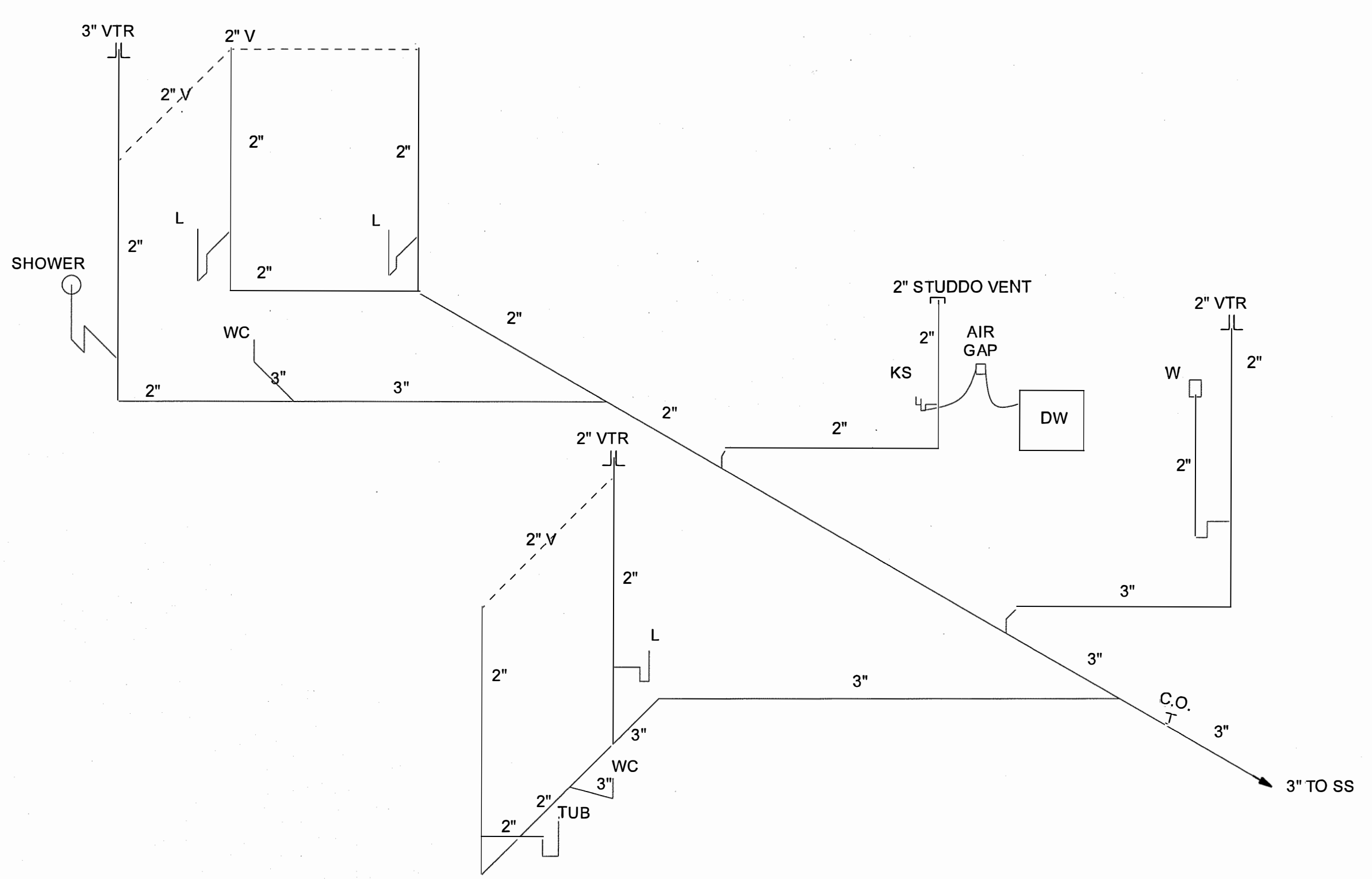


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PAUL WELCH INC.
CIVIL ENGINEERING
MECHANICAL & ELECTRICAL
1984 SW BILTHORE ST., SUITE # 114
PORT SAINT LUCIE, FL 34984
PHONE: (112) 989-9888
EMAIL: P.WELCH@PAULC.COM
PAUL WELCH P.E.
FLORIDA REGISTRATION NO. 29945

SHEET NUMBER
1 OF



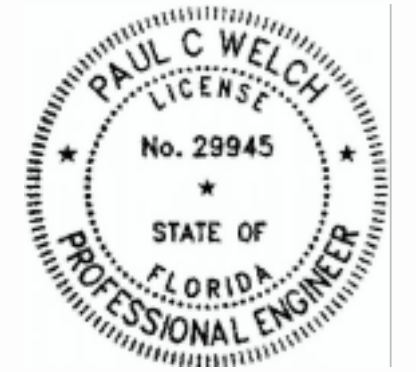
FLOOR PLAN HVAC
1/4" = 1'



PLUMBING RISER
NO SCALE

- PLUMBING NOTES:**
- 1) ALL WORK SHALL BE IN ACCORDANCE WITH THE FBC 2020-PLUMBING
 - 2) DWV PIPING SHALL BE SCHEDULE 40 PVC.
 - 3) WATER PIPING IN BUILDING SHALL BE ONE OF THE FOLLOWING: TYPE L COPPER, CPVC, OR PEX.
 - 4) SLEEVE ALL PIPING IN CONTACT WITH CONCRETE OR UNDERGROUND WITHIN BLDG.
 - 5) HOT WATER PIPING WITH A MINIMUM THERMAL RESISTANCE OF R-3 SHALL BE APPLIED TO PIPING LARGER THAN 3/4" NOMINAL DIAMETER. PIPING FROM WATER HEATER TO KITCHEN OUTLETS, PIPING LOCATED OUTSIDE THE CONDITIONED SPACE, PIPING FROM THE WATER HEATER TO THE DISTRIBUTION MANIFOLD, PIPING LOCATED UNDER THE FLOOR SLAB, BURIED PIPING, SUPPLY AND RETURN PIPING IN RECIRCULATION SYSTEMS, PIPING WITH RUN LENGTHS GREATER THAN 20 FEET.
 - 6) WATER HEATERS INSTALLED SHALL BE IN ACCORDANCE WITH FBC 2020 ENERGY CONSERVATION.

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CIVIL ENGINEERING
1804 SW BILTHORE ST., SUITE # 114
FORT SAINT LUCIE, FL 34984
PHONE: (772) 785-9888
EMAIL: PWELCH@PAULWELCH.COM
PAUL WELCH P.E.
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