

# A CUSTOM DESIGN GRURECH

ALL FEDERAL STATE & LOCAL CODES, ORDINANCES, AND REGULATIONS, ETC. SHALL BE CONSIDERED AS PART OF THE SPECIFICATIONS OF THIS BUILDING, AND ARE TO BE ADHERED TO EVEN IF THEY ARE IN VARIANCE WITH THE PLAN.

DESIGNER AND ENGINEER ASSUME NO RESPONSIBILITY OVER ANY PHASE OF CONSTRUCTION OR COMPLETED BUILDING.

### TERMITE SPECIFICATIONS

#### SECTION R318 PROTECTION AGAINST TERMITES

TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING SYSTEMS, AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS PREVENTIVE TREATMENT TO NEW CONSTRUCTION (SEE SECTION 202, REGISTERED TERMITICIDES). UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES." PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE WITH RULES AND LAWS

#### NOTES:

- METHOD OF TREATMENT SHALL BE APPROVED BY THE GOVERNING JURISDICTION. LIQUID PRODUCT APPROVAL DATA MUST BE ON FILE WITH THE BUILDING DEPARTMENT.
- BORATE OR BORAX-COR PRODUCT METHODS MUST BE DETERMINED AT PERMIT STAGE AND PRESSURE TREATED LUMBER THAT HAS BEEN CUT OR DRILLED THAT EXPOSES UNTREATED PORTIONS OF WOOD ARE REQUIRED TO BE FIELD TREATED TO PREVENT INSECT INFESTATION.
- OPTIONAL BORATE APPLIED TO ALL FRAME MEMBERS WITHIN 24" A.F.F.

#### - NOTICE TO BUILDER AND ALL SUBCONTRACTORS -

IT IS THE INTENT OF THE ENGINEER LISTED IN THE TITLEBLOCK OF THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO:

- REVIEW ALL THE INFORMATION CONTAINED IN THESE DOCUMENTS. PRIOR TO THE COMMENCEMENT OF ANY WORK, THE ENGINEER ARE NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNLESS DETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
- SHALL STRICTLY OBSERVE ALL APPLICATION CODES DURING THE COURSE OF CONSTRUCTION INCLUDING ALL STATE, CITY, AND COUNTY BUILDING, ZONING, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE CODES. CONTRACTOR SHALL VERIFY ALL CODE REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK.
- THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR SAFETY PROCEDURES, THE MEANS AND METHODS OF CONSTRUCTION, TECHNOLOGIES, OR THE CONTRACTION TO CARRY OUT THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS OR RELATED CODES.
- THE FRAMING PLAN SHOWN INDICATES THE "TRUSS SYSTEM" AND IS THE RESPONSIBILITY OF THE TRUSS SYSTEM ENGINEER (DESIGN PROFESSIONAL OF RECORD). THE TRUSS DESIGN ENGINEER (DELEGATED ENGINEER) HAS FINAL RESPONSIBILITY FOR EACH INDIVIDUAL TRUSS AND TRUSS PROFILE, AND IS TO SUBMIT A FINAL SET OF TRUSS ENGINEERING SIGNED AND SEALED TRUSS DRAWINGS TO DESIGN PROFESSIONAL OF RECORD FOR REVIEW PRIOR TO FABRICATION.
- ANY DISCREPANCY OR ERROR IN DIMENSIONS OR NOTES WITH THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL FOR CLARIFICATION PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS. ANY QUESTIONS REGARDING THE INFORMATION FOUND IN THESE PLANS SHOULD BE DIRECTED TO OUR QUALITY ASSURANCE MANAGER AT 321-971-0881 IMMEDIATELY. NO BACK CHARGES WILL BE CONSIDERED FOR REIMBURSEMENT BY THE ENGINEER WITHOUT ADVANCED NOTIFICATION AND APPROVAL BY THE ENGINEER. PAYMENTS WILL BE MADE IN ACCORDANCE TO THE TERMS OF THE AGREEMENT.

PER FBC 2020 7TH EDITION RESIDENTIAL VOLUME R702.13:  
LATH AND LATH ANCHORS SHALL BE OF CORROSION-RESISTANT MATERIALS. EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED WITH 1/2" LONG (28MM) 1/8" GAUGE NAILS HAVING A 3/8" (10MM) HEAD OR 1/2" LONG (22MM) 1/8" GAUGE STAPLES SPACED IN ACCORDANCE WITH ASTM C269 OR C719, OR AS OTHERWISE APPROVED.

### CONCRETE CURING AND TESTING

CURING: PROTECT CONCRETE FOR 7 DAYS AGAINST MOISTURE LOSS, RAPID TEMPERATURE CHANGE, MECHANICAL INJURY AND INJURY FROM RAIN OR FLOWING WATER. MAINTAIN CONCRETE IN MOIST CONDITION AT TEMPERATURE ABOVE 50 DEGREES F, THROUGHOUT SPECIFIED CURING PERIOD. PROTECT FROM RAPID TEMPERATURE CHANGE AND RAPID DRYING FOR FIRST 24 HOURS FOLLOWING REMOVAL OF TEMPERATURE PROTECTION. START CURING ACTIVITIES AS SOON AS FREE WATER HAS DISAPPEARED FROM SURFACES OF CONCRETE AFTER PLACING AND FINISHING.

TESTING: CONCRETE TESTING FOR THIS PROJECT SHALL BE PAID FOR BY OWNER, AND SHALL CONSIST OF COMPRESSIVE TESTS MADE BY THE LABORATORY IN ACCORDANCE WITH ASTM C-31. FOLLOW ASTM C31 AND MAKE A SET OF SIX (6) STANDARD CYLINDERS FOR EACH 100 CU. YDS. OR FOR EACH DAYS POUR EXCEEDING 5 CU. YDS. TEST PER ASTM C39 AS FOLLOWS: TWO (2) SPECIMENS TESTED AT SEVEN (7) DAYS, ONE (1) AT 14 DAYS, TWO (2) TESTED AT 28 DAYS, AND ONE (1) HELD IN RESERVE. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C-143 FOR EACH DAYS POUR, FOR EACH LOAD, OR AS DIRECTED BY ARCHITECT/ENGINEER.

### REINFORCING STEEL

REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615-GRADE 60, EXCEPT THAT NEW BILLET STEEL CONFORMING TO ASTM A615-GRADE 40 MAY BE USED FOR COLUMN TIES AND BEAMS STIRRUPS. ALL DETAILING AND ACCESSORIES SHALL CONFORM TO TYPICAL DETAILS SHOWN IN THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE" STRUCTURES ACI 315, LATEST EDITION.

ALL CONTINUOUS VERTICAL OR HORIZONTAL BARS IN FOOTINGS, FOUNDATIONS WALLS, SLABS AND OTHER CONCRETE SHALL BE LAP-SPLICED, WHERE NECESSARY OR DESIRABLE, BY WIRING TOGETHER IN CONTACT, LENGTH OF ALL #5 LAPS SHALL BE 40-BAR DIAMETERS OR 2'-1" MINIMUM, WHICHEVER IS GREATER (EXCEPT AS NOTED BY DRAWINGS). ALL BARS AT END OF CONTINUOUS FOOTINGS OR BEAMS SHALL BE CONT. TO FAR SIDES OF INTERSECTING ELEMENTS.

ALL SLABS ON GRADE SHALL BE 4" THICK AND REINFORCED WITH 6 X 6 - W/4 X W/4 W.W.F. UNLESS OTHERWISE NOTED. LAP FABRIC @ AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE MESH IN CENTER OF SLAB. MOISTURE BARRIER BENEATH FLOOR SLABS SHALL BE 6 MIL POLYETHYLENE. USE FLAT SHEETS OF WELDED WIRE FABRIC. ROLLS WILL NOT BE PERMITTED.

### FOUNDATIONS

GEOTECHNICAL ENGINEERING EVALUATION AND SUBSURFACE EXPLORATION SHALL PERFORM BY OWNER'S GEOTECHNICAL CONSULTANT.

MAXIMUM ALLOWABLE SOIL PRESSURE IS ASSUMED TO BE 2000 POUNDS PER SQUARE FOOT.  
SPREAD FOOTINGS SHALL BEAR ON SOIL COMPACTED TO A DENSITY OF AT LEAST 95 % OF MODIFIED PROCTOR MAXIMUM DENSITY (A.S.T.M. D1557), FOR ALL REQUIRED FILL AND FOR AT LEAST 1'-0" BELOW FINISHED FLOOR UNLESS MORE STRINGENT REQUIREMENTS ARE RECOMMENDED BY OWNERS GEOTECHNICAL CONSULTANT.

### GENERAL STRUCTURAL NOTES

#### CAST IN PLACE REINFORCED CONCRETE

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI (SLABS) 3000 PSI (COLUMNS AND BEAMS), A SLUMP OF 5" PLUS OR MINUS 1", AND HAVE 2 TO 5% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.63.
- HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS.
- HORIZONTAL FOOTING BARS SHALL BE BENT 20° AROUND CORNERS OR CORNER BARS WITH A 25" LAP PROVIDED EA WAY.
- CONCRETE COVER MIN. 3" WHEN EXPOSED TO EARTH OR 1 1/2" TO FORM U.O.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064/A1064M. W.W.F. SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 6". POLYPROPYLENE FIBERS FOR SLABS ON GRADE TO BE MIN 1.5 LBS OF FIBER PER CUBIC YARD.
- ALL REINFORCING STEEL / STIRRUPS AND TIES SHALL BE NEW DOMESTIC DEFORMED BARS FREE FROM RUST, SCALE & OIL & SHALL MEET ASTM A615/ A615M GRADE 40 U.O. REINFORCING FOR FOOTING SHALL BE SUPPORTED ON PRE-CAST CONCRETE PADS, STEEL WIRE OR PLASTIC SUPPORT. TOP REINFORCING SHALL BE POSITIVELY SUPPORTED BY TEMPORARY STRINGERS. DOWELS FOR COLUMNS & FILLED CELLS SHALL BE SECURED IN PLACE BY USING ADDITIONAL CROSS REINFORCING TIED TO FOOTING REINFORCING. SPLICES IN REINFORCING WHERE PERMITTED SHALL BE AS PER DETAIL MS05L1.
- HIGH STRENGTH SIMPSON SET EPOXY-TIE WAS USED IN THE DESIGN OF THIS PRODUCT. IF CONTRACTORS WISH TO USE A DIFFERENT EPOXY, THEY MUST FIRST CONTACT THE ENGINEER OF RECORD FOR WRITTEN APPROVAL.
- WHERE PROJECT IS TO BE LOCATED IN KNOWN RADON GAS PREVALENT AREAS, APPENDIX "F" OF THE FLORIDA BUILDING CODE 7TH EDITION, THEY TO BE IMPLEMENTED. F303.4 CONCRETE STRENGTH IN THESE AREAS ARE TO BE A MINIMUM OF 3000 P.S.I., THEREFORE, ANY AND ALL NOTES ON THESE PLANS THAT INDICATE 2500 P.S.I. SHALL BE REPLACED WITH 3000 P.S.I. FOR THE CONCRETE STRENGTH.

#### MASONRY

- HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90-014, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI (F<sub>m</sub> = 1500 PSI).
- MORTAR SHALL BE TYPE "S", CONFORMING TO ASTM C270-12A.
- COARSE GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI SLUMP OF 7" TO 11". CONTINUOUS MASONRY UNBUILT DURING CONSTRUCTION SHALL BE PROTECTED BY BRICK OR CONCRETE.
- GRADE 40 U.O. VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH THE CELLS FILLED WITH COARSE GROUT.
- GRADE 40 U.O. VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM AND AT A MAXIMUM SPACING OF 192 DIA OR 10FT WHICH EVER IS LESS. REINFORCING SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL WITH MIN 1/2" CLEARANCE TO INSIDE FACE.
- REINFORCING STEEL SHALL BE LAPPED PER DETAIL MS05L1, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- GROUT STOPS SHALL BE PROVIDED BELOW BOND BEAM, PLASTIC SCREEN, METAL LATH STRIP OR CAVITY CAPS MAY BE USED TO PREVENT THE FLOW OF GROUT INTO CELLS BELOW. THE USE OF FELT PAPER AS A STOP IS PROHIBITED.
- TEMPORARY BRACING AND SHORING OF WALL TO PROVIDE STABILITY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- TYPICAL FILLED CELL REINFORCING SIZE AND SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS AND NO CONCENTRATED LOADS FOR (7) DAYS. PER CODE ACI 318-14
- CONSOLIDATE POURS EXCEEDING 12" IN HEIGHT BY MECHANICAL VIBRATION, AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED. GROUT SHALL BE FLUSH WITH TOP OF WALL.

#### WOOD

- ALL EXTERIOR WOOD STUDS WALLS, BEARING WALLS, SHEAR WALLS, AND MISC. STRUCTURAL WOOD FRAMING MEMBERS (I.E. BLOCKING OR CABLE END BRACING) SHALL BE EITHER AS SPECIFIED IN PLAN OR IN DETAILS. IF CONFLICTS OCCUR BETWEEN PLAN AND DETAILS, THE STRONGEST MATERIAL SHALL BE USED. AT A MINIMUM, ALL WOOD STRUCTURAL FRAMING MEMBERS SHALL BE SPF #2.
- ALL LUMBER SPECIFIED ON DRAWINGS ARE INTENDED FOR DRY USE ONLY (MOISTURE CONTENT 19% OR LESS). U.O. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
- 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. ALL HOLES OVER 1" IN DIA. FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HISS2 STUD SHOES, TYP. U.O.
- MANY OF THE NEW PRESURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND TO SELECT APPROPRIATE CONNECTORS THAT RESIST CORROSION, FOR EXAMPLE, ACC-C, ACC-D, CBA-A OR CBA-R REQUIRE HOT-DIPPED GALVANIZED OR STAINLESS STEEL FASTENERS. DOT SODIUM BORATE (SBX) DOES NOT.
- ALL EXPOSED WOOD OR WOOD IN CONTACT WITH EARTH OR CONCRETE TO BE PRESURE TREATED.
- UNTREATED WOOD SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE OR MASONRY. SEAT PLATE SHALL BE PROVIDED AT BEARING LOCATIONS WITHOUT WOODEN TOP PLATES.
- SEE PLAN FOR STUD PACK AND BEAM NAILING PATTERNS.
- ALL ENGINEERED LUMBER TO HAVE THE FOLLOWING MIN VALUES U.O.  
PARALLAM COLUMNS: 1.8E Fb = 2400 PSI  
MICROLAM (LVL) BEAMS: 2.0E Fb = 2800 PSI  
LULLAM BEAMS: SHSP 24E V LVLUP (1.7E Fb=2400 PSI) MIN.
- SEE PLAN NOTE FOR ADDITIONAL ROOF, WALL, SHEAR WALL AND FLOOR SHEATHING REQUIREMENTS ALONG W/ NAILING INFORMATION OTHERWISE:  
9.1. ROOF DECK: PLYWOOD C-C/O-D, EXTERIOR OR OSB  
9.2. FLOOR SHEATHING: TAG C-C GROUP 1, APA RATED (4824) SHEATHING SHALL FINISH FLUSH TO EXTERIOR WALL FACE.  
9.3. WALL SHEATHING: 7/16" STRUCTURAL OSB EXPOSURE 1 OR 15/16" RATED OSB EXPOSURE 1, A MINIMUM 8" SPACE IS RECOMMENDED BETWEEN PANELS AT EDGE AND END JOINTS TO ALLOW FOR EXPANSION. PER R604.3 SHEATHING SHALL NOT BE USED AS WEATHER RESISTANCE BARRIER UNLESS SPECIFIED.

#### UPLIFT CONNECTORS

- UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT OR LATERAL FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE COORDINATE THE TRUSS ENGINEER FOR THE LOCATION OF THESE WALLS AND STRUCTURAL PLANS FOR MORE INFO.

### STRUCTURAL STEEL

- MATERIAL SPECIFICATIONS: WIDE FLANGE SECTIONS: ASTM A992, GRADE 50, F<sub>y</sub>=50 KSI TUBE STEEL (HSS): ASTM A500, GRADE B, F<sub>y</sub>= 46 KSI PIPE STEEL: ASTM A53, TYPE B, GRADE S, F<sub>y</sub>= 35 KSI STEEL: A36, F<sub>y</sub>= 36 KSI OTHER STRUCTURAL CONNECTIONS: ALL STRUCTURAL BOLTS TO BE A325 U.O.
- STRUCTURAL BOLTS SMALLER THAN 5/8" DIA. TO BE A307 THREADED ROD SHALL CONFORM TO A36 OR A307 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL REINFORCEMENT SHOP DRAWINGS TO BE PROVIDED TO ENGINEER OF RECORD BEFORE FABRICATION FOR REVIEW AND APPROVAL.
- STRUCTURAL CONNECTIONS: ALL STRUCTURAL BOLTS TO BE A325 U.O. ALL A325N BOLTS SHALL BE BROUGHT TO A "SNUG-TIGHT" CONDITION, AS DEFINED IN THE SPECIFICATION. SLIP CRITICAL (SC) BOLTS MUST BE FULLY TENSIONED PER SPECIFICATION STRUCTURAL BOLTS SMALLER THAN 5/8" DIA. TO BE A307 THREADED ROD SHALL CONFORM TO A36 OR A307 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 SHOP AND FIELD WELDS: E70XX UNO (LOW HYDROGEN). FILED WELDS SHALL BE 3/8" UNO.
- SUBMIT SHOP DRAWINGS INDICATING ALL SHOP AND ERECTION DETAILS INCLUDING PROFILES, SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTION ATTACHMENTS, FASTENERS, LOAD, AND TO LERANCES.
- STRUCTURAL STEEL SHALL RECEIVE SHOP COAT OF PRIMER (COLOR AS DIRECTED BY ARCHITECT) EXCEPT FOR AREAS WHICH WILL RECEIVE SPRAY-ON FIRE PROTECTION.
- A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

### PRE ENGINEERED WOOD TRUSSES

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

### FIELD REPAIR NOTES

- MISSED "X" BOLTS FOR WOOD BEARING WALLS MAY BE SUBSTITUTED WITH 1/2" DIA. EPOXY ANCHORS WITH 7" EMBEDMENT. SIMPSON "SET" EPOXY ADHESIVE BINDER FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS OR SIMPSON 1/2" TITEN HD BOLTS WITH MINIMUM 7" EMBEDMENT. SEE PLAN FOR EMBEDMENT DEPTH AT FLOOR STEPS.
- FOR MISSED VERT. DOWELS, DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDMENT EPOXY (SIMPSON HIGH STRENGTH EPOXY-TIE ANCHORING ADHESIVE) MIXED PER THE MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO THE MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR.
- FOR MORTAR JOINTS LESS THAN 1/4", PROVIDE (1) #6 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING).
- MISSED UNTEL STRAPS FOR MASONRY TRUSS STRUCTURE MAY BE SUBSTITUTED WITH (1) SIMPSON MSTM16 UNWIST STRAP W/ (4) 1/2" X 2 1/2" TITEN HD MASONRY AND (7)-1/4" NAILS TO TRUSS FOR UPLIFTS LESS THAN 860 LBS (USE (2) MSTM16 FOR UPLIFTS LESS THAN 1720#). IF CORNER STRAP IS MISSED, CONTRACTOR IS TO INSTALL (2) SIMPSON HGAM10 W/ (4) 1/4" X 1 1/2" SDS SCREWS AND (5) 1/4" X 2 1/4" TITENS ONE EACH SIDE OF TRUSS.
- NO MORE THAN 10 STRAPS MAY BE SUBSTITUTED OR NO MORE THAN 3 IN A ROW WITHOUT APPROVAL FROM EOR. IF GIRDER TRUSS CONNECTIONS ARE MISSED, CONTACT THE EOR FOR SUBSTITUTION.
- IF MISSED, MSTM36 OR MSTM40 STRAP IS MISSED FOR 2ND FLOOR JAMB STUD CONNECTION, CONTRACTOR MAY INSTALL SIMPSON HTTS W/ (26) 16d X 2 1/2" NAILS AND 5/8" ANCHOR BOLT SET IN SIMPSON HIGH STRENGTH EPOXY W/ MIN 6" EMBEDMENT AND MIN 3" EDGE DISTANCE. CONTACT EOR IF STRAPS ARE MISSED UNDER GIRDER JAMB STUD LOCATIONS.

### STRUCTURAL DESIGN CRITERIA

#### CODE CRITERIA

- FLORIDA BUILDING CODE 7TH EDITION (2020) RESIDENTIAL.
- FLORIDA FIRE PREVENTION CODE 7TH EDITION (2020)
- FLORIDA BUILDING CODE ACCESSIBILITY 7TH EDITION (2020)
- NFPA 70-14, NATIONAL ELECTRICAL CODES, (NEC 2017) & 6TH FBOR CH. 34-43.
- BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE - (ACI 318-14).
- SPECIFICATIONS FOR STRUCTURAL CONCRETE - (ACI 301-10).
- BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES - (ACI 530-13).
- NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - 2015 EDITION.
- WOOD FRAMED CONSTRUCTION MANUAL 2015 EDITION.
- APA PLYWOOD DESIGN SPECIFICATION 2012 EDITION.
- AMERICAN SOCIETY OF CIVIL ENGINEERS: ASCES/SEI 7-16
- ULTIMATE DESIGN MANUAL - 2015 EDITION

#### GENERAL ROOF LOADING

	SHINGLE ROOF (PSF)	METAL ROOF (PSF)	TILE ROOF (PSF)	HEAVY ROOF (PSF)
TOP CHORD LL	20	20	20	20
TOP CHORD DL	10	10	15	25
BOTTOM CHORD LL*	0	0	0	0
BOTTOM CHORD DL	10	10	10	10
TOTAL (PSF)	40	40	45	55

BOTTOM CHORD LL (OPT)  
ATTICS W/ LIMITED STORAGE 20  
ATTICS W/ HEAVY STORAGE 50  
\* ATTICS W/ NO STORAGE (NON-CONCURRENT)

NOTE: LL REDUCTIONS ARE ALLOWED PER CODE BUT ONLY WITH WRITTEN APPROVAL FROM EOR OR INDICATED ON PLAN

#### GENERAL FLOOR LOADING

	40 (PSF)	COMMENTS:
TOP CHORD LL	40 (PSF)	
TOP CHORD DL	10 (PSF)	
BOTTOM CHORD LL	0 (PSF)	
BOTTOM CHORD DL	5 (PSF)	

#### SPECIAL FLOOR LOADING

GAME ROOM / READING ROOMS	60 (PSF)	COMMENTS:
BALCONIES / DECKS <td>40 (PSF) <td>1. A SINGLE CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. </td></td>	40 (PSF) <td>1. A SINGLE CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP. </td>	1. A SINGLE CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP.
BALCONIES OVER 100 SQ.FT. <td>100 (PSF) <td>2. BALLUSTERS AND PANELS FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA EQUAL TO 1 SQ. FT. </td></td>	100 (PSF) <td>2. BALLUSTERS AND PANELS FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA EQUAL TO 1 SQ. FT. </td>	2. BALLUSTERS AND PANELS FILLERS SHALL BE DESIGNED TO WITHSTAND A HORIZONTALLY APPLIED NORMAL LOAD OF 50 POUNDS ON AN AREA EQUAL TO 1 SQ. FT.
GUARDRAILS AND HANDRAILS <td>200(LBS/0) <td></td> </td>	200(LBS/0) <td></td>	
GUARDRAIL IN-FILL COMPONENTS <td>50 (LBS/0) <td></td> </td>	50 (LBS/0) <td></td>	
STAIRS / NON SLEEPING ROOMS <td>40 (PSF) <td></td> </td>	40 (PSF) <td></td>	
SLEEPING ROOMS <td>30 (PSF) <td></td> </td>	30 (PSF) <td></td>	
LIBRARIES - STACK ROOMS <td>150(PSF) <td></td> </td>	150(PSF) <td></td>	

#### DEFLECTION CRITERIA

ROOF TRUSSES*	LL/980	TL/240	COMMENTS:
ROOF RAFTERS (W/O CLG.) <td>LL/180 <td>TL/120 <td></td> </td></td>	LL/180 <td>TL/120 <td></td> </td>	TL/120 <td></td>	
FLOOR TRUSSES/ BEAMS** <td>LL/960 <td>TL/240 <td></td> </td></td>	LL/960 <td>TL/240 <td></td> </td>	TL/240 <td></td>	
FLOOR JOIST*** <td>LL/480 <td>TL/240 <td></td> </td></td>	LL/480 <td>TL/240 <td></td> </td>	TL/240 <td></td>	

\*TL MAX 2" LIP TO JOIST SPAN  
\*\*\*TL MAX 1/2"

#### SHEET INDEX

1	COVER SHEET STRUCTURAL NOTES, CODE COMPLIANCE, SPECS AND WIND PRESSURES
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#### WIND LOADING CRITERIA ASCE 7-16

WIND SPEED (ULTIMATE)	140.0 MPH
WIND SPEED (ALLOWABLE)	108.0 MPH
EXPOSURE CATEGORY	C
BUILDING CATEGORY	II
BUILDING TYPE	V
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	+/- 0.18

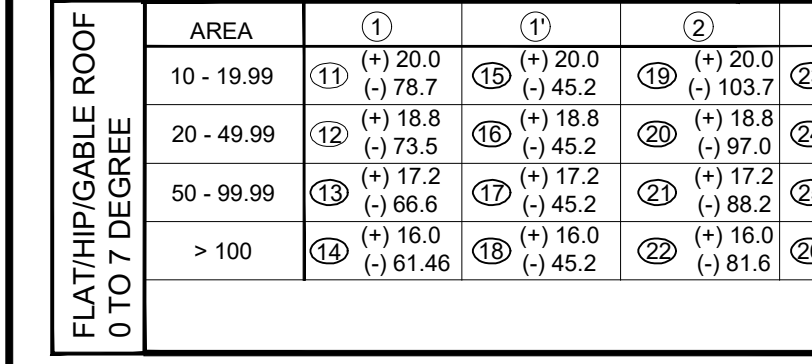
NOTE: MEAN ROOF HEIGHT FOR TYPICAL SINGLE STORY BUILDING IS 15FT, AND FOR 2 STORY IS 30 FEET

#### ASCE 7-16 WALL DESIGN ALLOWABLE COMPONENTS AND CLADDING WIND PRESSURES AND SUCTIONS FOR MEAN ROOF HEIGHT ≤ 60 ft

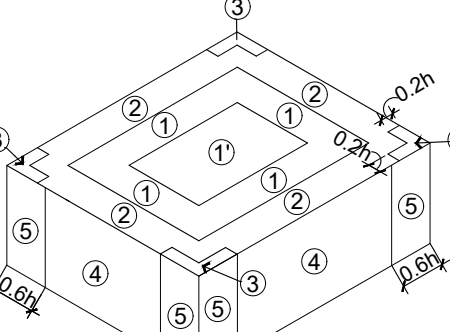
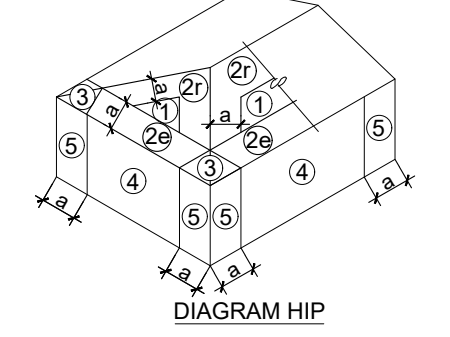
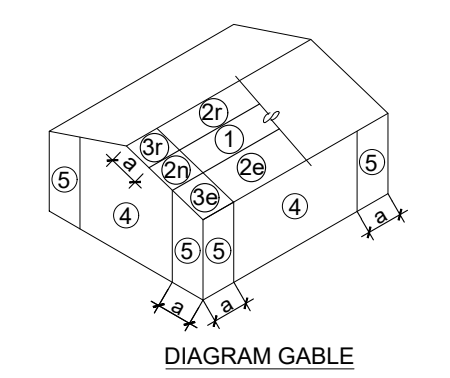
WIND WALLS	EFFECTIVE WIND AREA (SQ FEET)	WIND PRESSURE AND SUCTION (PSF)	
		(+) VALUE DENOTES PRESSURE	(-) VALUE DENOTES SUCTION
10 - 19.99	(1) 49.4	(2) 81.3	(3) 82.0
	(4) 53.5	(5) 58.5	(6) 76.4
20 - 49.99	(7) 47.2	(8) 51.4	(9) 54.9
	(10) 51.4	(11) 44.2	(12) 54.9
50 - 99.99	(13) 44.2	(14) 48.4	(15) 52.1
	(16) 48.4	(17) 42.0	(18) 52.1
> 100	(19) 42.0	(20) 46.2	(21) 63.7

#### GARAGE DOORS\* SOFFIT

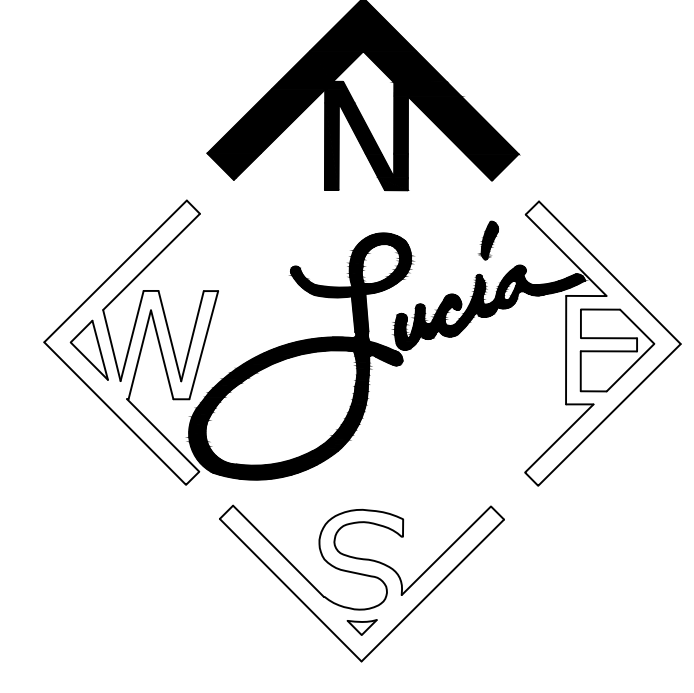
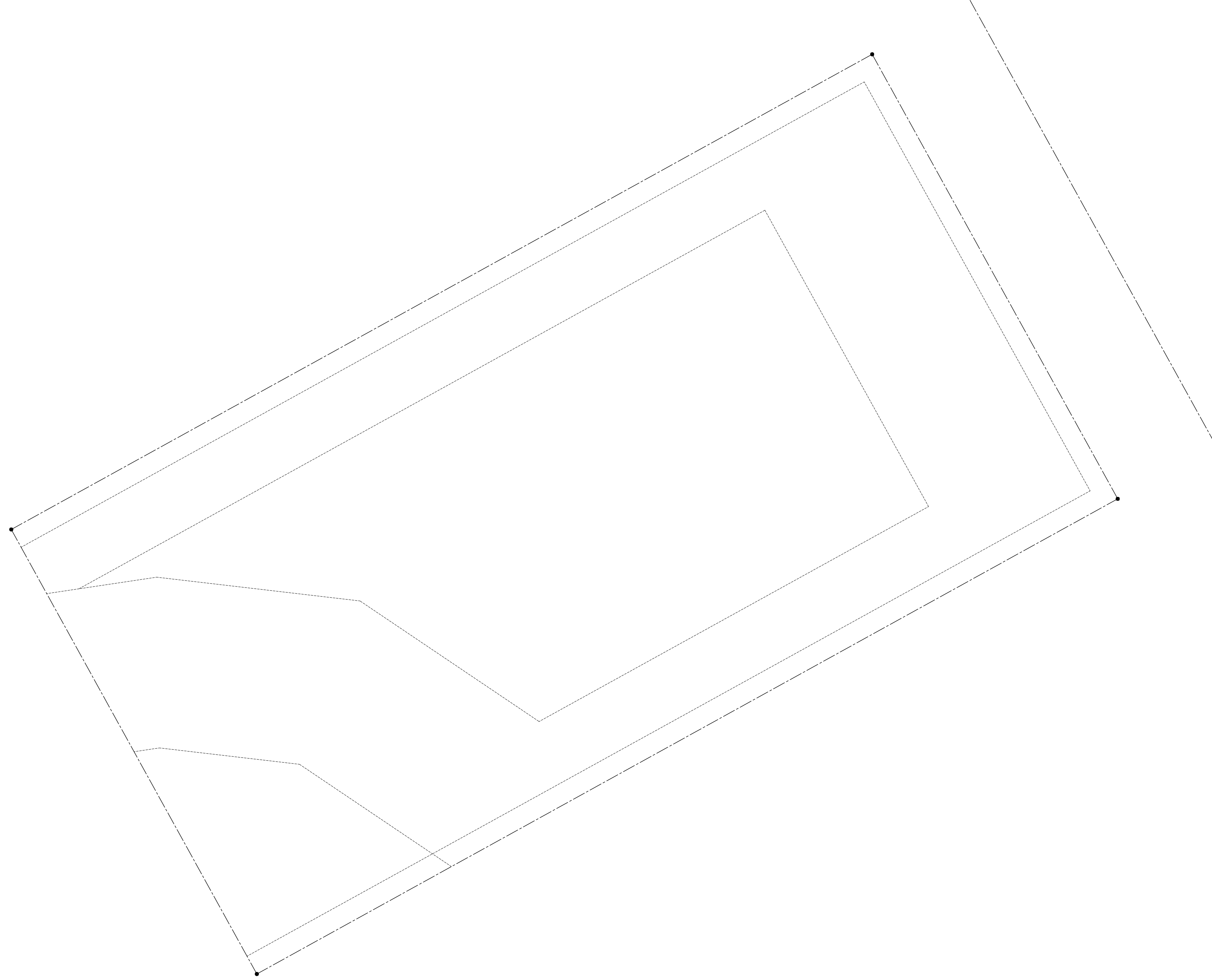
WIND WALLS	9'-0" x 7'-0"		16'-0" x 7'-0"	
	(+) 31.1	(-) 35.0	(+) 29.8	(-) 33.1
10 - 19.99	(22) 20.0	(23) 20.0	(24) 20.0	(25) 20.0
	(26) 18.8	(27) 18.8	(28) 18.8	(29) 18.8
20 - 49.99	(30) 17.2	(31) 17.2	(32) 17.2	(33) 17.2
	(34) 16.0	(35) 16.0	(36) 16.0	(37) 16.0
50 - 99.99	(38) 16.0	(39) 16.0	(40) 16.0	(41) 16.0
	(42) 15.7	(43) 15.7	(44) 15.7	(45) 15.7
> 100	(46) 15.7	(47) 15.7	(48) 15.7	(49) 15.7



#### ASCE 7-16 WIND PRESSURE AND SUCTION DIAGRAMMS



WIND WALLS	2n		2r		3e		3r	
	(+) 30.0	(-) 30.0	(+) 30.0	(-) 30.0	(+) 30.0	(-) 30.0	(+) 30.0	(-) 30.0
10 - 19.99	(50) 30.0	(51) 30.0	(52) 30.0	(53) 30.0	(54) 30.0	(55) 30.0	(56) 30.0	(57) 30.0
	(58) 28.4	(59) 28.4	(60) 28.4	(61) 28.4	(62) 28.4	(63) 28.4	(64) 28.4	(65) 28.4
20 - 49.99	(66) 28.4	(67) 28.4	(					

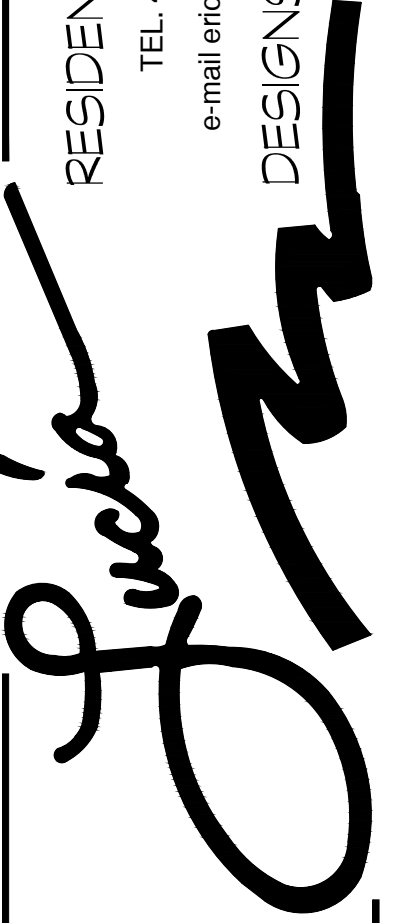


**SITE PLAN**

SCALE: 1" = 20'

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 e-mail: ericmlucia@gmail.com  
**DESIGNS**



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 352.989.1935  
 PER: 47617

NEW HOME DESIGN  
**GRURECH PROJECT**  
 LOT 12, ROYAL TRAILS RD.  
 EUSTIS FLORIDA 32736

DATE:  
 SCALE: NOTED  
 DRAWN: EML  
 JOB:  
 SHEET **2**  
 OF 14 SHEETS

REVISIONS	BY

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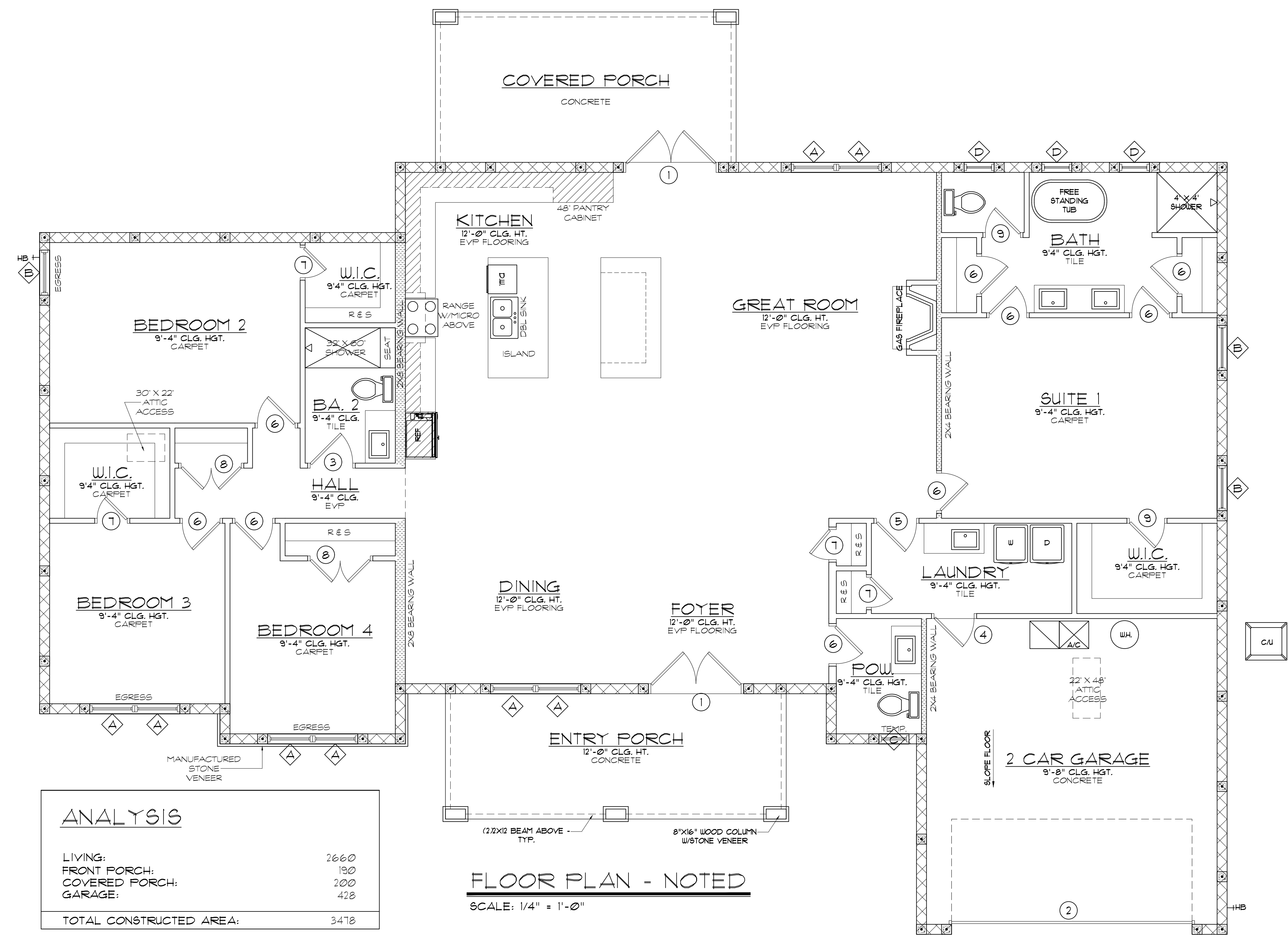
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DWELLING / GARAGE SEPARATION (TABLE R302.6)	
SEPARATION	MATERIAL
FROM RESIDENCE AND ATTICS	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT TO THE GARAGE SIDE
FROM HABITABLE ROOMS ABOVE GARAGE	NOT LESS THAN 5/8 INCH TYPE X GYPSUM BOARD OR EQUIVALENT
STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT
GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT	NOT LESS THAN 1/2 INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA.

**PLAN NOTES:**

- OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL HAVE A 20 MIN. FIRE RATED DOOR OR SOLID WOOD DOOR NOT LESS THAN 1 AND 3/8 INCHES IN THICKNESS OR SOLID OR HONEYCOMB DOOR. DOOR SHALL BE EQUIPPED WITH AUTOMATIC CLOSER.
- PROVIDE 2X BLOCKING AT MIDPOINT ON ALL INTERIOR STUD WALLS.



**WINDOW SCHEDULE**

TAG	WIDTH	HGT.	QTY.	NOTES
A	3'-0"	6'-0"	8	SINGLE HUNG
B	3'-0"	5'-0"	3	SINGLE HUNG
C	2'-0"	4'-0"	1	SINGLE HUNG
D	2'-0"	2'-0"	3	FIXED TRANSOM

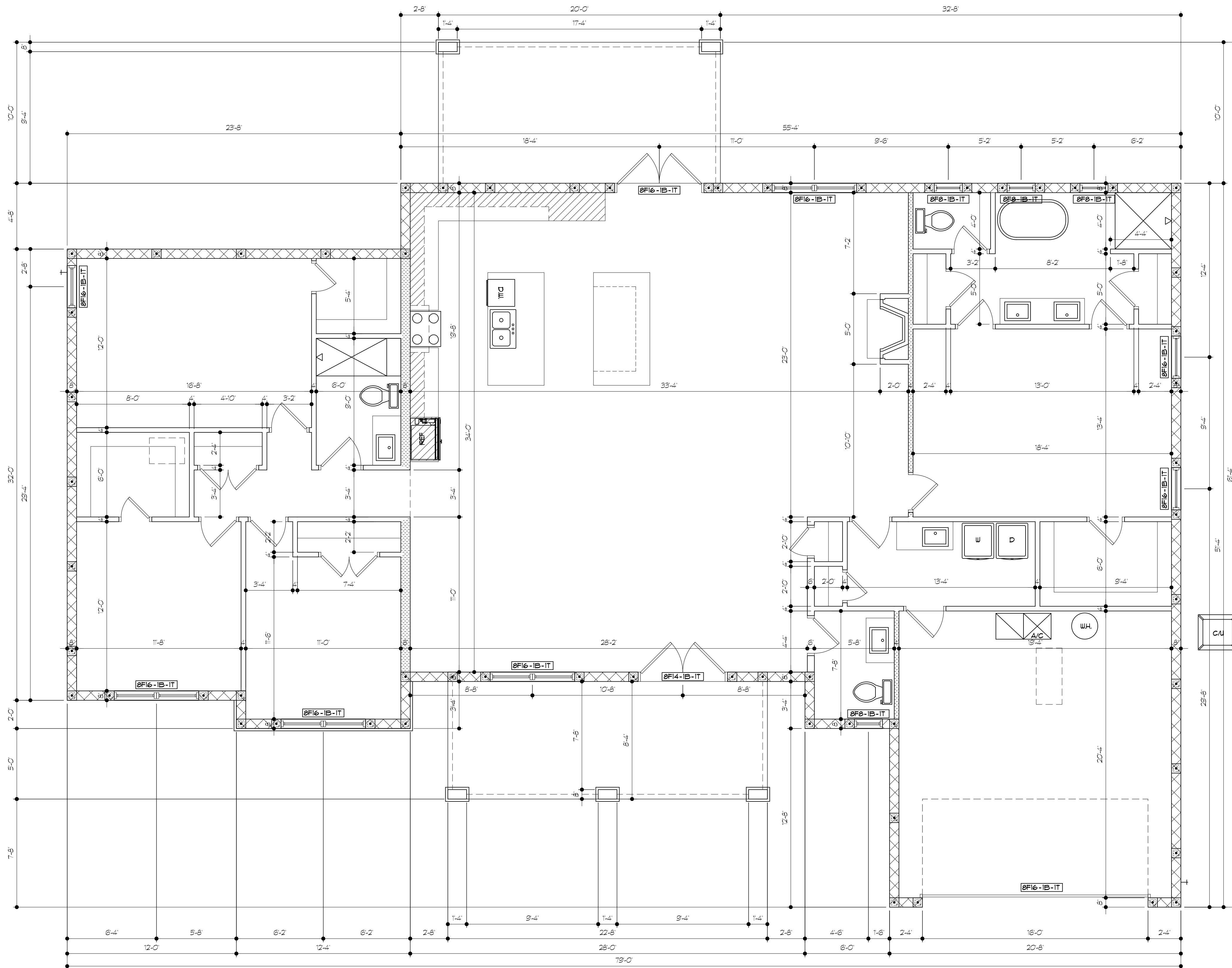
**DOOR SCHEDULE**

**EXTERIOR**

TAG	WIDTH	HGT.	QTY.	NOTES
1	6'-0"	8'-0"	2	FULL GLASS
2	16'-0"	8'-0"	1	OVERHEAD GARAGE DOOR

**INTERIOR**

TAG	WIDTH	HGT.	QTY.	NOTES
3	2'-10"	8'-0"	1	SWING
4	2'-8"	8'-0"	1	SWING-20 MIN RATED
5	2'-8"	8'-0"	3	SWING
6	2'-6"	8'-0"	5	SWING
7	2'-0"	8'-0"	6	SWING
8	4'-0"	8'-0"	2	DOUBLE SWING
9	2'-4"	8'-0"	2	SWING



**FLOOR PLAN - DIMENSIONED AND LINTEL PLAN**  
 SCALE: 1/4" = 1'-0"

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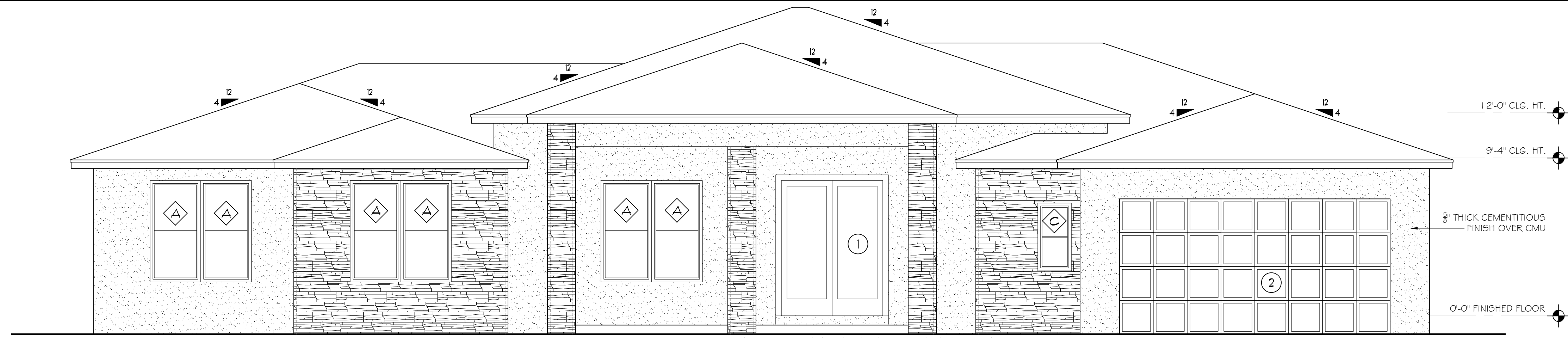
**RESIDENTIAL DESIGN**  
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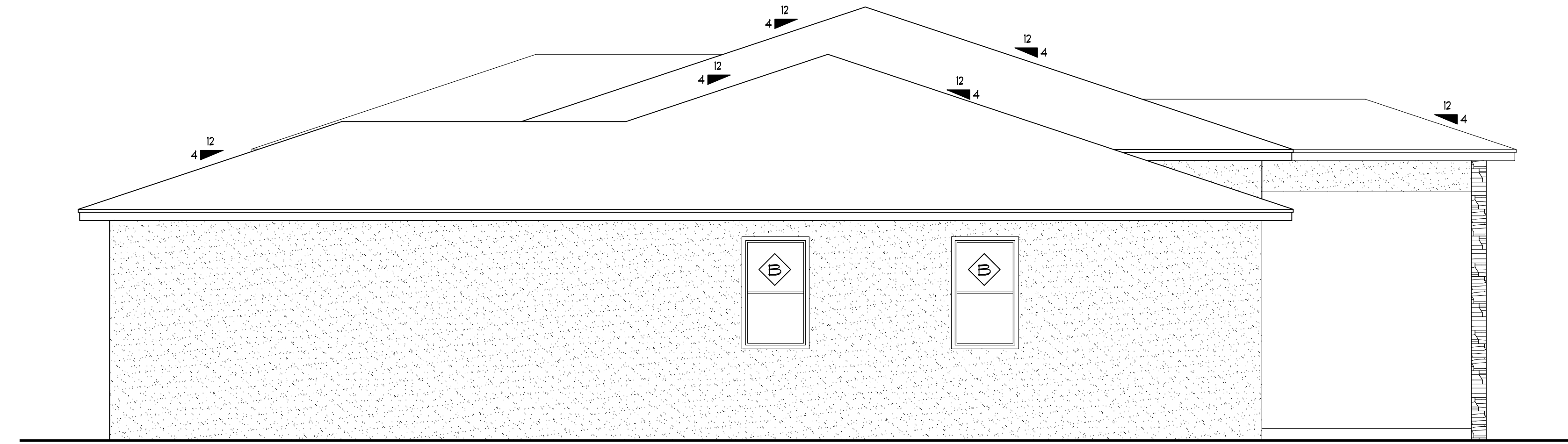
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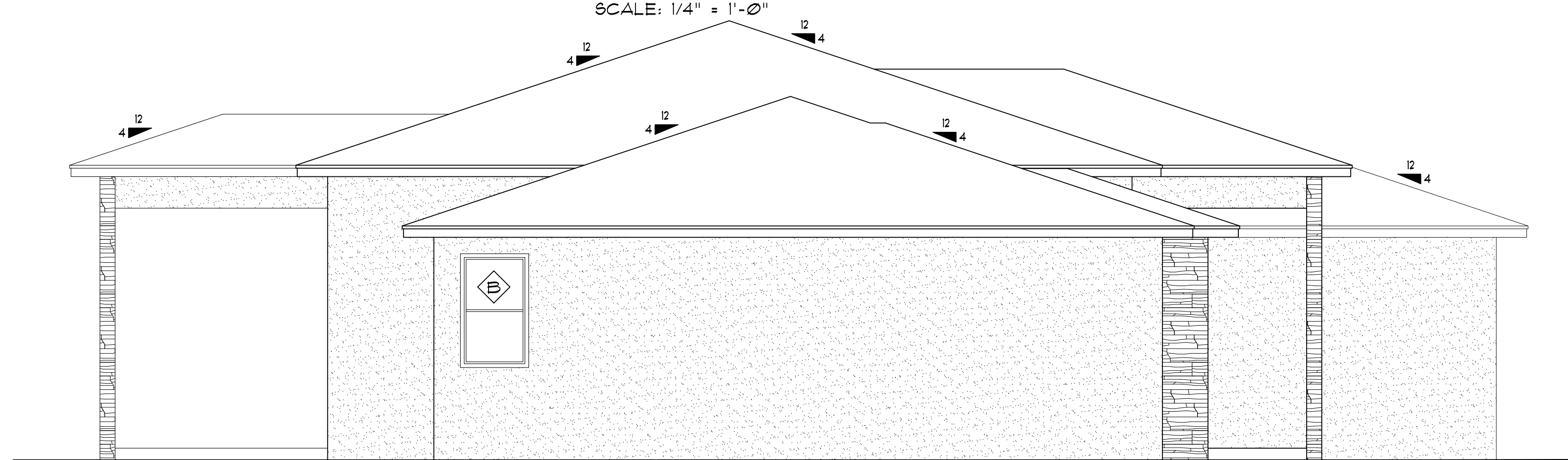
**FRONT ELEVATION**

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



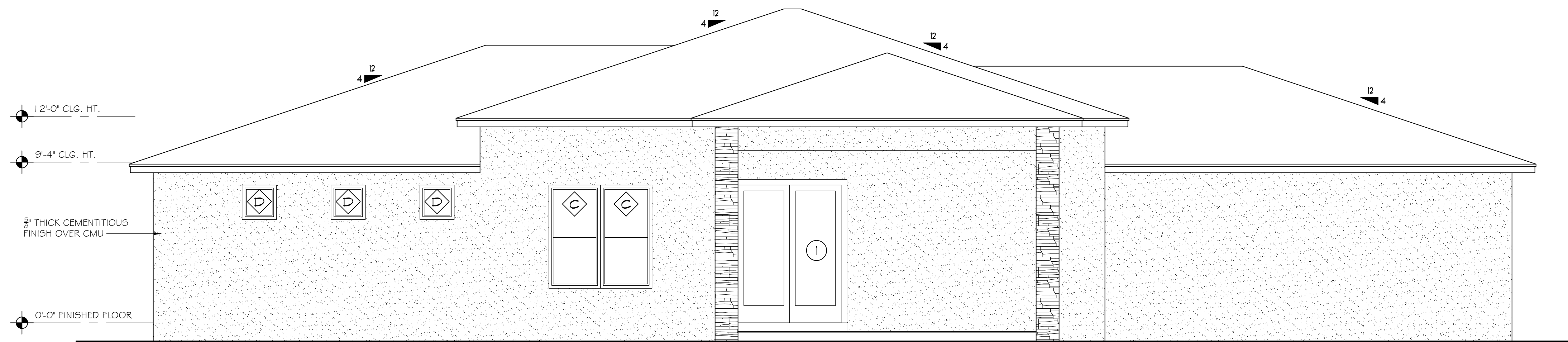
**RIGHT ELEVATION**

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



**LEFT ELEVATION**

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



**REAR ELEVATION**

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

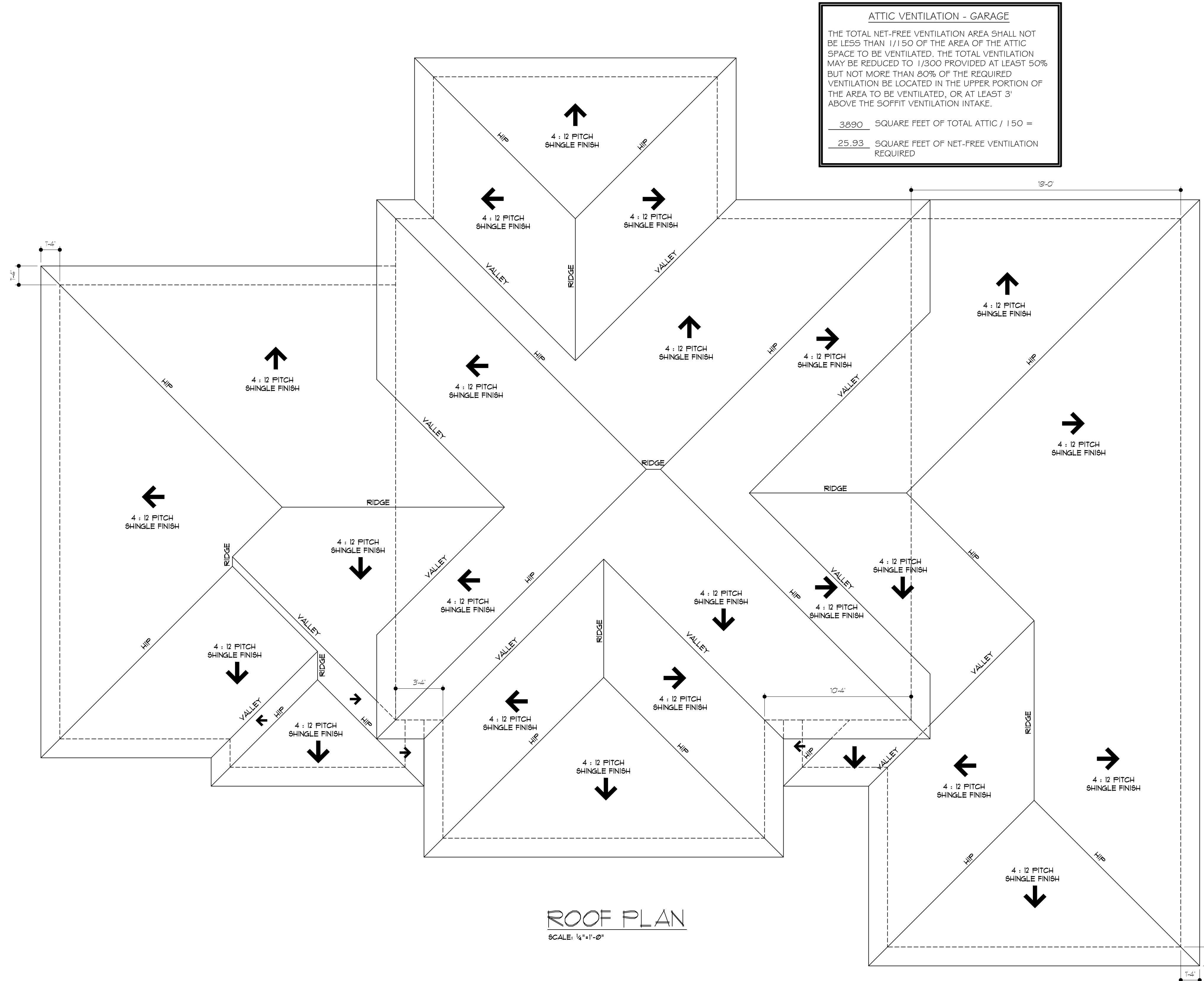
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**ATTIC VENTILATION - GARAGE**

THE TOTAL NET-FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE ATTIC SPACE TO BE VENTILATED. THE TOTAL VENTILATION MAY BE REDUCED TO 1/300 PROVIDED AT LEAST 50% BUT NOT MORE THAN 80% OF THE REQUIRED VENTILATION BE LOCATED IN THE UPPER PORTION OF THE AREA TO BE VENTILATED, OR AT LEAST 3' ABOVE THE SOFFIT VENTILATION INTAKE.

3890 SQUARE FEET OF TOTAL ATTIC / 150 =  
 25.93 SQUARE FEET OF NET-FREE VENTILATION REQUIRED

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

REVISIONS	BY

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**NEW HOME DESIGN**  
**GRURECH PROJECT**  
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 OF 14 SHEETS

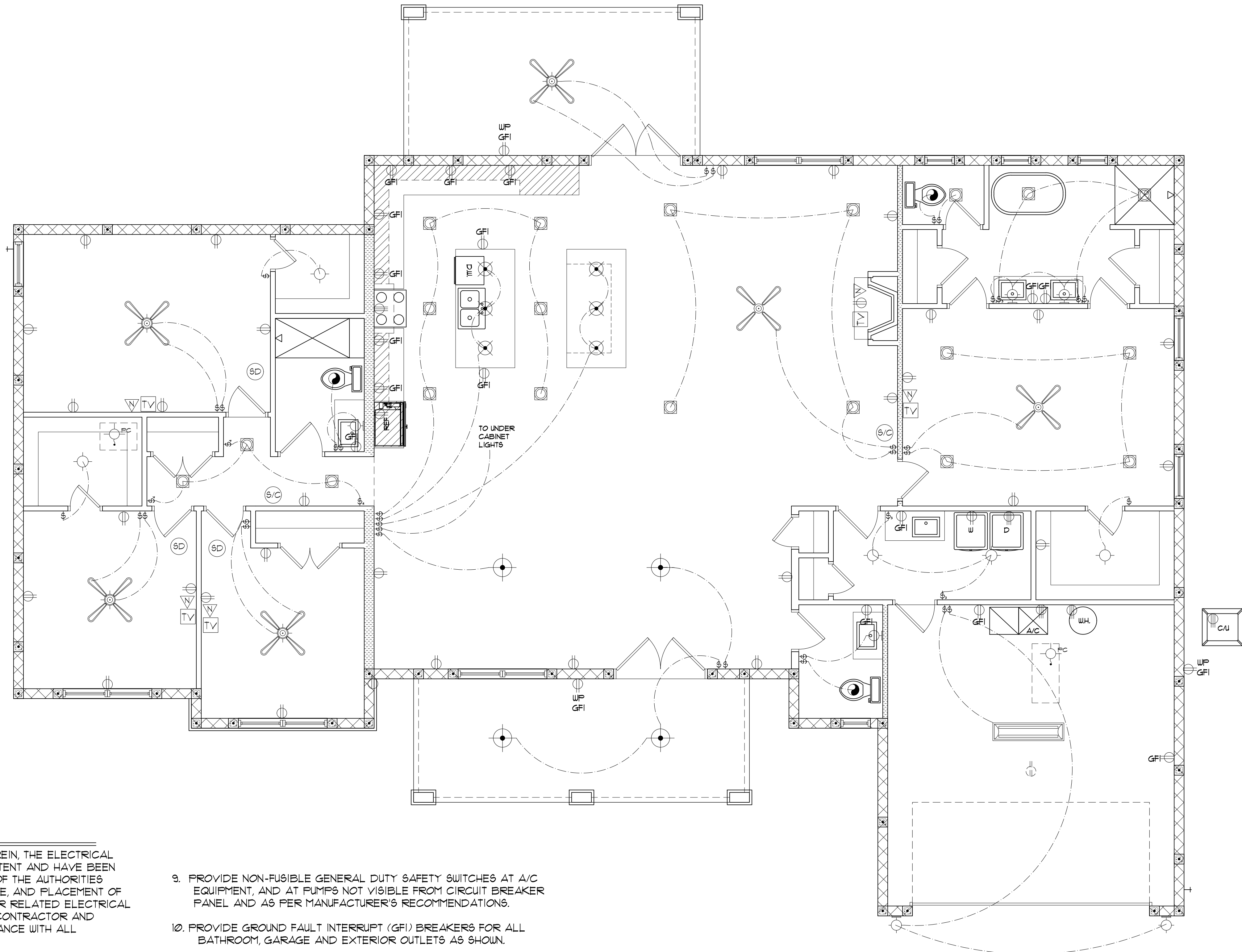
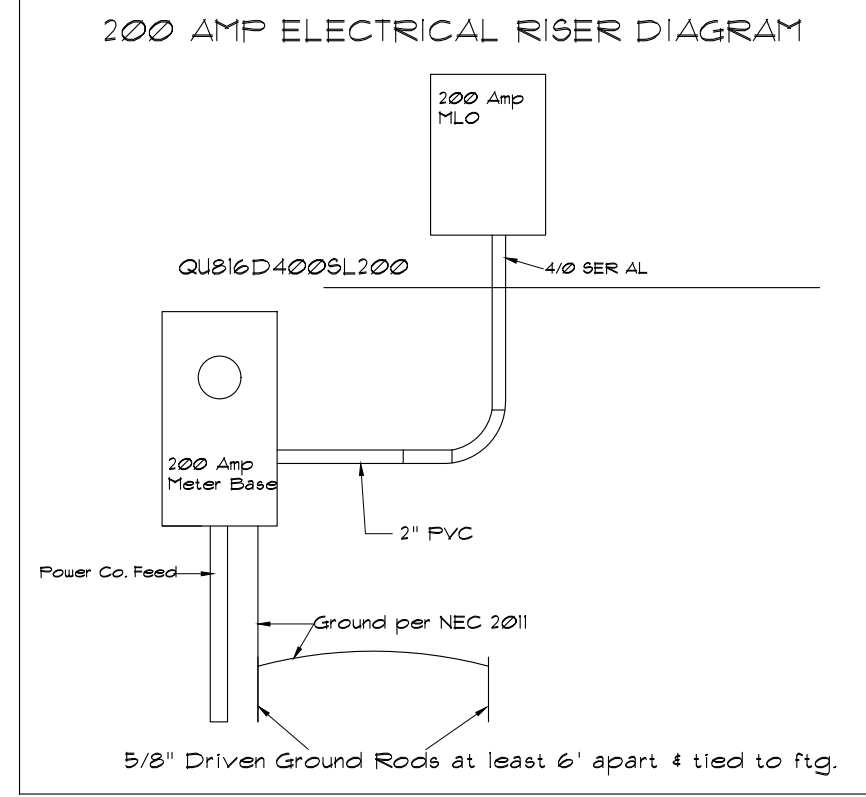


**ELECTRICAL LEGEND**

SYMBOL	DESCRIPTION
⊞	SWITCH
⊞	THREE WAY SWITCH
⊞	FOUR WAY SWITCH
⊞	DIMMER SWITCH
⊞	110v OUTLET
⊞ GFI	110v OUTLET, GFCI
⊞ WFP GFI	110v OUTLET, WEATHER PROOF GFCI
⊞	110v OUTLET, CEILING
⊞	110v OUTLET, BELOW
⊞	110v OUTLET, SWITCHED
⊞	220v OUTLET
⊞	FLOOR OUTLET
⊞	SURFACE MOUNTED INCANDESCENT LIGHT
⊞	WALL SCONCE
⊞	LARGE PENDANT FIXTURE
⊞	PENDANT FIXTURE
⊞	INGROUND UPLIGHT
⊞	LIGHT/FAN COMBO UNIT
⊞	BATH FAN
⊞	RECESSED LED LIGHT
⊞	DIRECTIONAL RECESSED LED LIGHT
⊞	RECESSED LED LIGHT - VAPOR PROOF
⊞	LED BACKLIGHTING
⊞	HEADER LIGHT FIXTURE
⊞	SQUARE PENDANT LIGHT FIXTURE
⊞	RECESSED RISER LIGHT
⊞	RECESSED WALL MOUNTED OUTDOOR LIGHT
⊞	2' X 4' LED LIGHT
⊞ SD	SMOKE DETECTOR
⊞ SC	COMBO SMOKE/CARBON MONOXIDE DETECTOR
⊞ TV	TV OUTLET
⊞	NETWORK JACK
⊞	ELECTRICAL PANEL
⊞	ELECTRICAL METER
⊞ PB	PUSH BUTTON
⊞	INTERCOM
⊞	GARBAGE DISPOSAL
⊞	CHIMES
⊞	ELEVATOR CALL BUTTON
⊞	ALARM KEY PAD
⊞	JUNCTION BOX
⊞ EC	LAMP HOLDER - FULL CHAIN
⊞	FLOOD LIGHTS
⊞	CEILING FAN

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

- \*ALL DETECTORS SHALL BE SMOKE/CARBON MONOXIDE COMBO.
- \*ALL NON-GFI OUTLETS TO BE ON ARC FAULT INTERRUPTERS
- \* TAMPER PROOF
- \*GFI OUTLETS OUTDOORS, GARAGES AND KITCHEN/BATHS



**ELECTRICAL NOTES**

- UNLESS OTHERWISE SPECIFICALLY STATED HEREIN, THE ELECTRICAL PLAN(S) ARE ONLY FOR GENERAL DESIGN INTENT AND HAVE BEEN COMPILED TO MEET PERMIT REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. ACTUAL QUANTITY, TYPE, AND PLACEMENT OF OUTLETS, SWITCHES, FIXTURES, AND ALL OTHER RELATED ELECTRICAL EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AND OWNER. INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.
- CONTRACTOR SHALL VERIFY WITH POWER COMPANY THE LOCATION OF SERVICE AND SHALL LOCATE METER AND PANEL AS REQUIRED.
- ALL WIRES SHALL BE THW COPPER, UNLESS NOTED OTHERWISE.
- WHERE REQUIRED BY OTHER CODES, SERVICE AND FEEDER CONDUCTORS SHALL BE COPPER OF EQUAL AMPACITY.
- ALL BRANCH CIRCUITS IN RACEWAY OR NON-METALLIC SHEATHED CABLE.
- COORDINATE RACEWAY INSTALLATIONS WITH OTHER TRADES PRIOR TO CONSTRUCTION.
- VERIFY ALL CONDUCTORS AND BREAKERS WITH EQUIPMENT MANUFACTURERS SPECIFICATIONS.
- PROVIDE DISCONNECT SWITCH SIZE AS REQUIRED BY LOAD AND UNITS.
- PROVIDE NON-FUSIBLE GENERAL DUTY SAFETY SWITCHES AT A/C EQUIPMENT, AND AT PUMPS NOT VISIBLE FROM CIRCUIT BREAKER PANEL AND AS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE GROUND FAULT INTERRUPT (GFI) BREAKERS FOR ALL BATHROOM, GARAGE AND EXTERIOR OUTLETS AS SHOWN.
- ELECTRICAL FIXTURES, TRIM AND APPLIANCES SHALL BE 'UL' APPROVED AND SELECTED BY OWNER.
- PROVIDE PRE-WIRED TELEPHONE AND TELEVISION (CABLE TV) OUTLETS.
- WIRE KITCHEN AND FAMILY ROOM SEPARATELY.
- ELECTRICAL SERVICE SIZE SHALL BE DESIGNED BY THE ELECTRICAL CONTRACTOR. THIS PLAN SHALL BE USED AS A GUIDE, POWER REQUIREMENTS SHALL BE DETERMINED BY TOTAL LOAD OF THE HOUSE.
- PROVIDE AFCIs (ARC FAULT INTERRUPTERS) IN ALL DWELLING UNIT BEDROOMS PER NEC.
- INSTALL SMOKE DETECTORS IN EACH SLEEPING ROOM, INSTALL COMBO SMOKE & CO2 DETECTORS AT TOP AND BOTTOM OF STAIRS AND WITHIN 10'-0" OF SLEEPING ROOMS. ALL DETECTORS ARE TO BE INTERCONNECTED AND HAVE BATTERY BACKUPS.

**ELECTRICAL PLANS**

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

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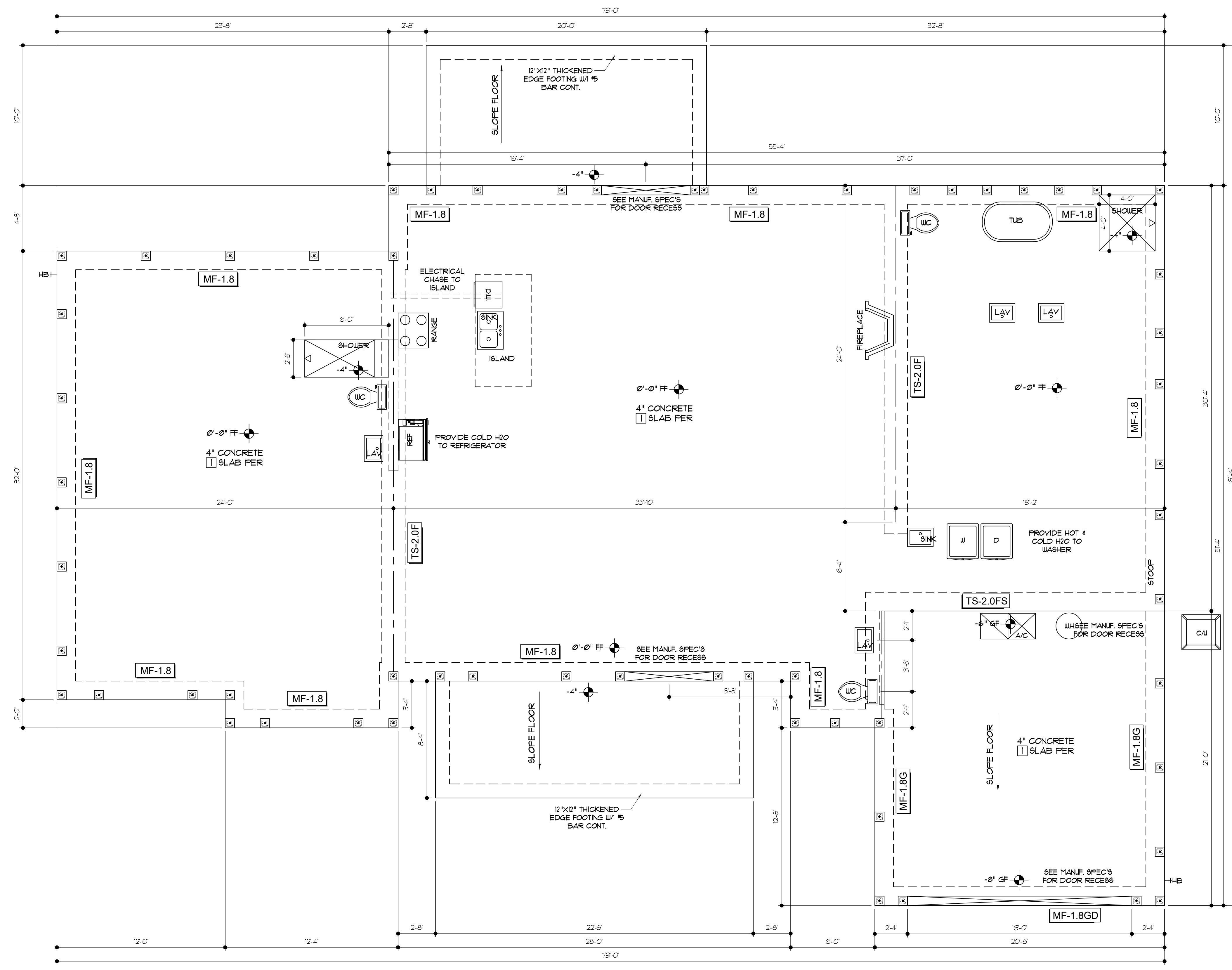
**Judith**  
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PER: 47617

NEW HOME DESIGN  
**GRURECH PROJECT**  
LOT 12, ROYAL TRAILS RD.  
EUSTIS FLORIDA 32736

DATE:	
SCALE:	NOTED
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SHEET	8
OF 14 SHEETS	





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

- SAWCUT OR CONTROL JOINTS SHALL BE LOCATED NOT TO EXCEED 400 SQ FT AND 15'-0" MAXIMUM SPACING
- 8"x8" SOLID GROUTED CELL (3,000 PSF) WITH (1) #5 VERTICAL REBAR FROM FOOTING UP TO TIE BEAM
- FS FILL SOLID GROUTED CELLS UNLESS OTHERWISE NOTED, STEEL REINFORCING NOT REQUIRED
- EJ 1/2" PRE-MOLDED EXPANSION JOINT FILLER
- V.I.F. = VERIFY IN FIELD BY BUILDER AND INFORM ENGINEER
- UNLESS OTHERWISE NOTED, DIMENSIONS ARE TO OUTSIDE OF SLAB FOR ADDITIONAL DIMENSIONING REFER TO ARCHITECTURAL SET OF PLANS
- NOTE: CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ANY CONSTRUCTION
- 1" 4" CONCRETE SLAB ON GRADE (3,000 PSF) REINF. W/ 6x6 10/10 W/M OR FIBERMESH ON 6 MIL. VAPOR BARRIER OVER CLEAN, WELL COMPACTED (MIN. 2,000 PSF) AND TERMITIC TREATED SOIL WITH FOISON CONTROL SYSTEM

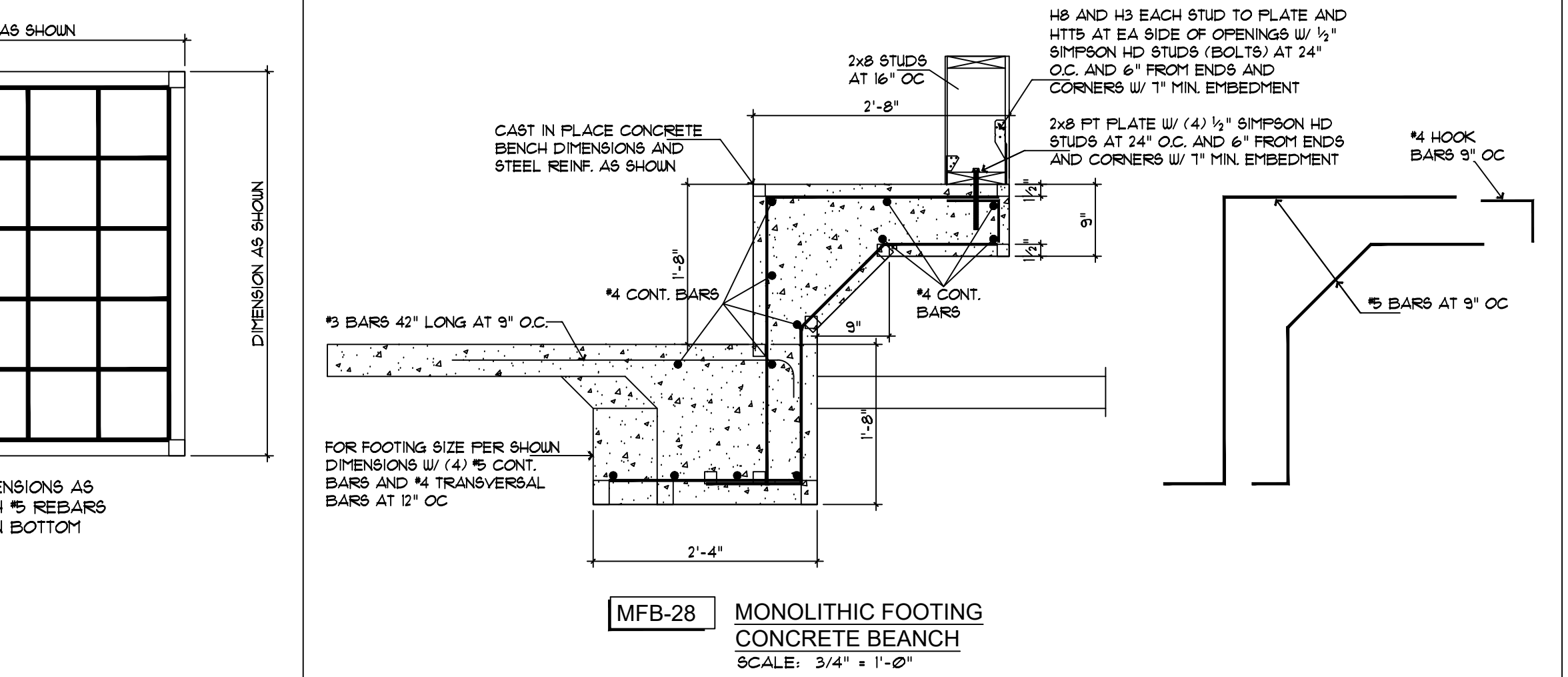
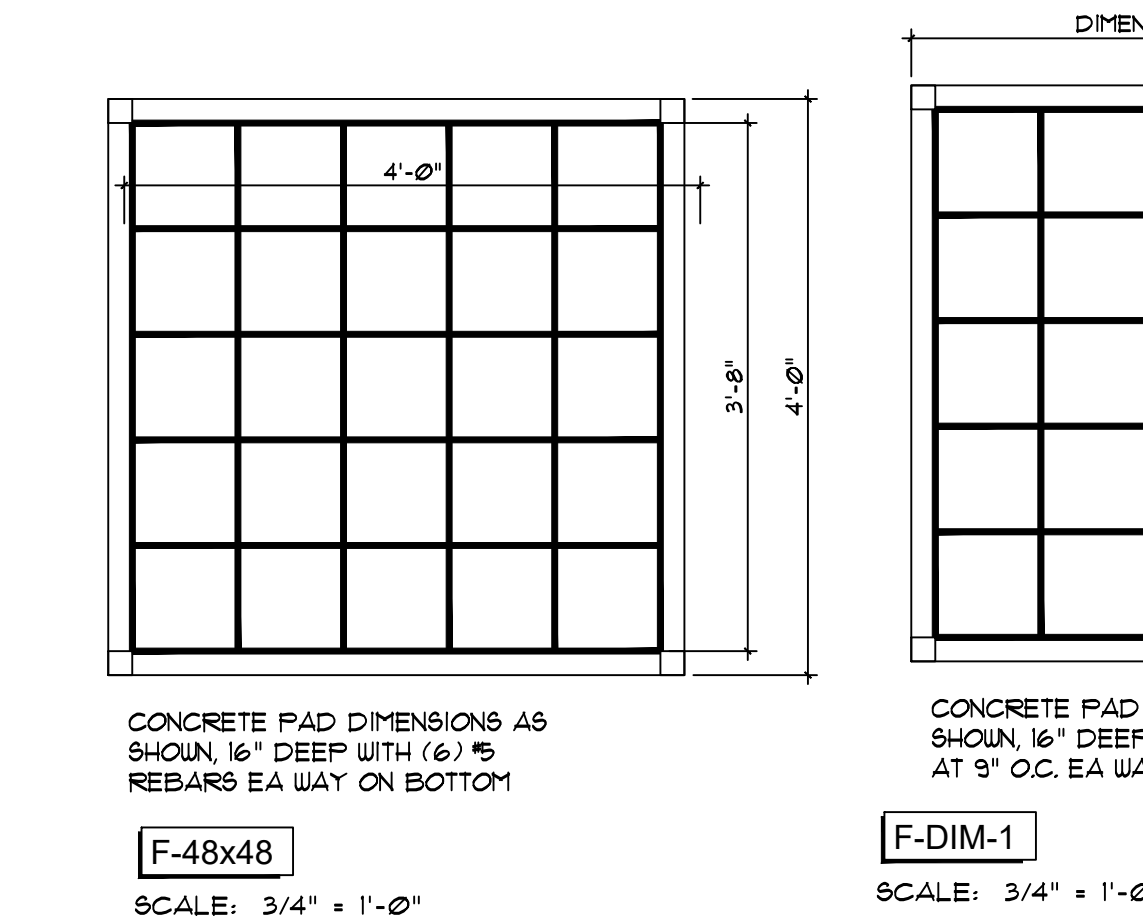
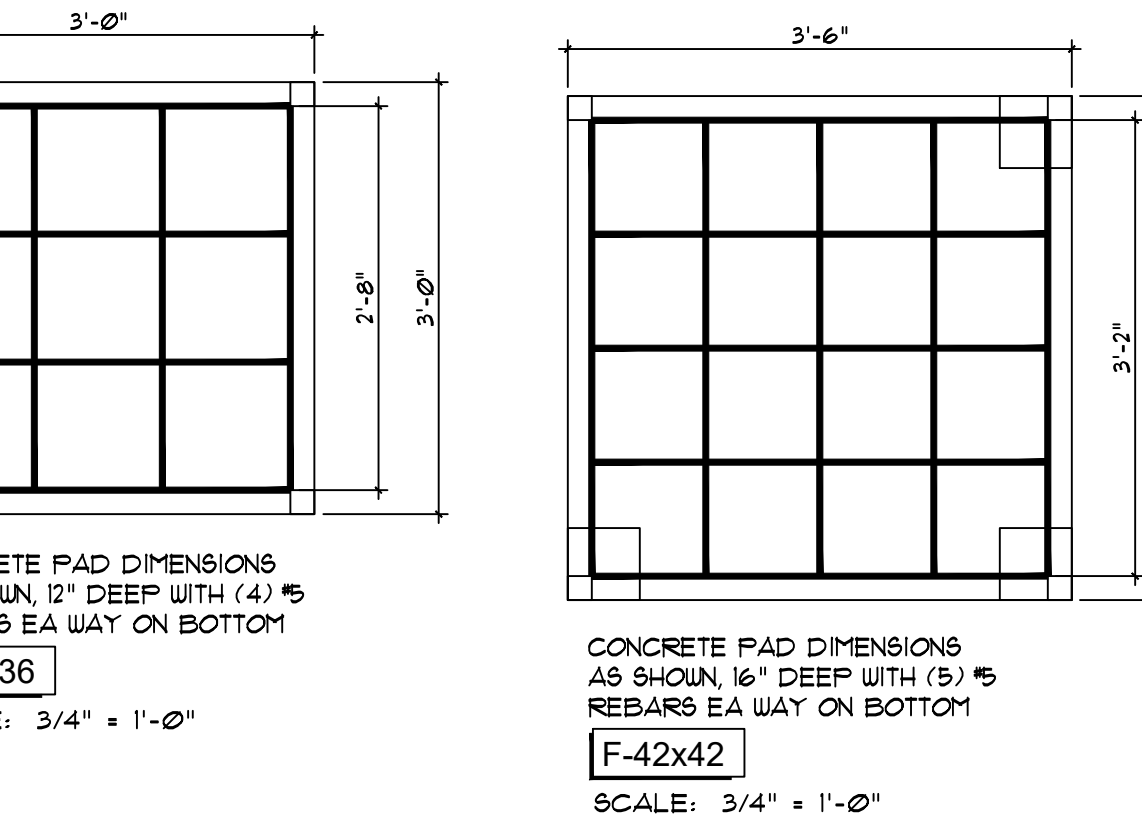
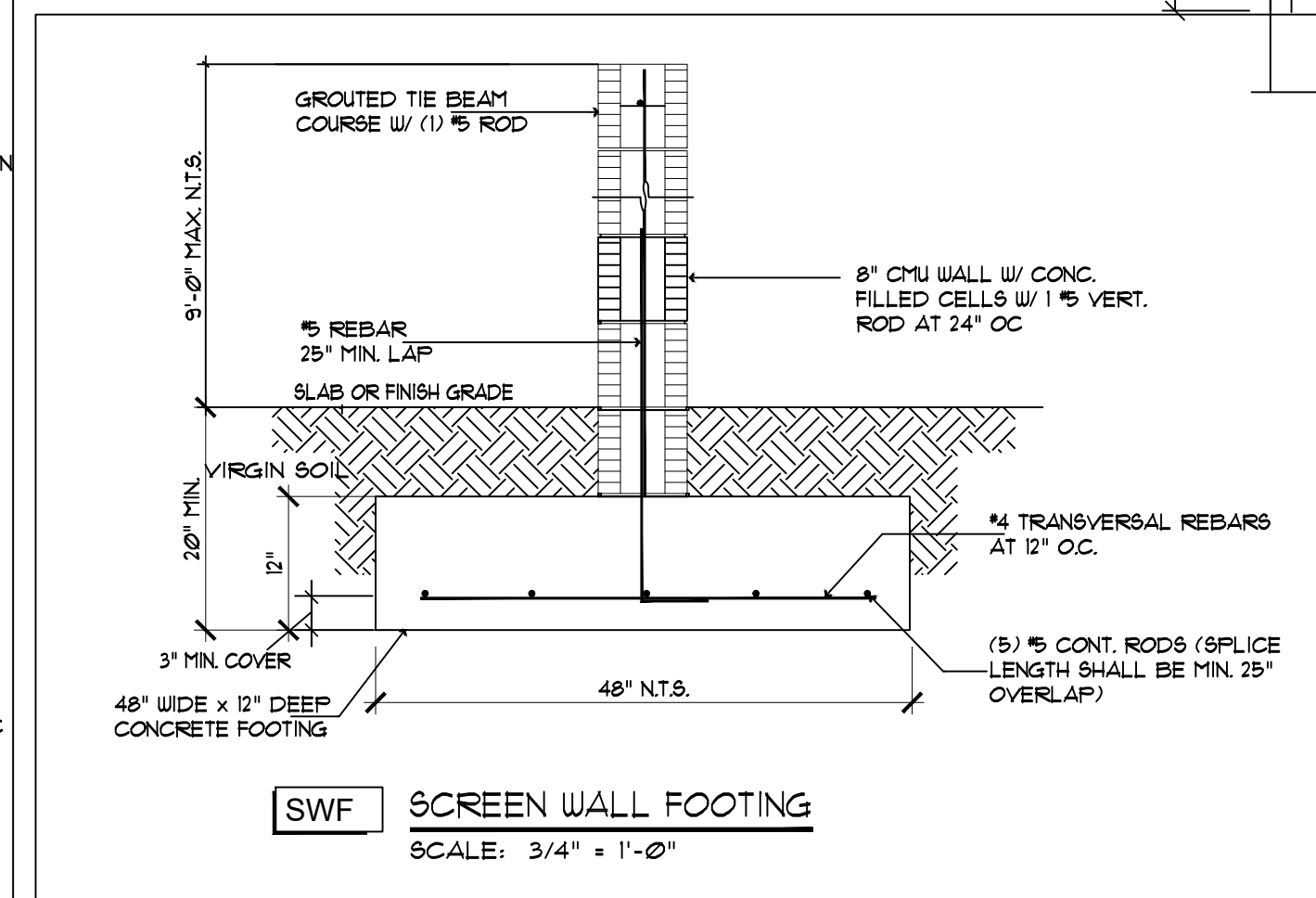
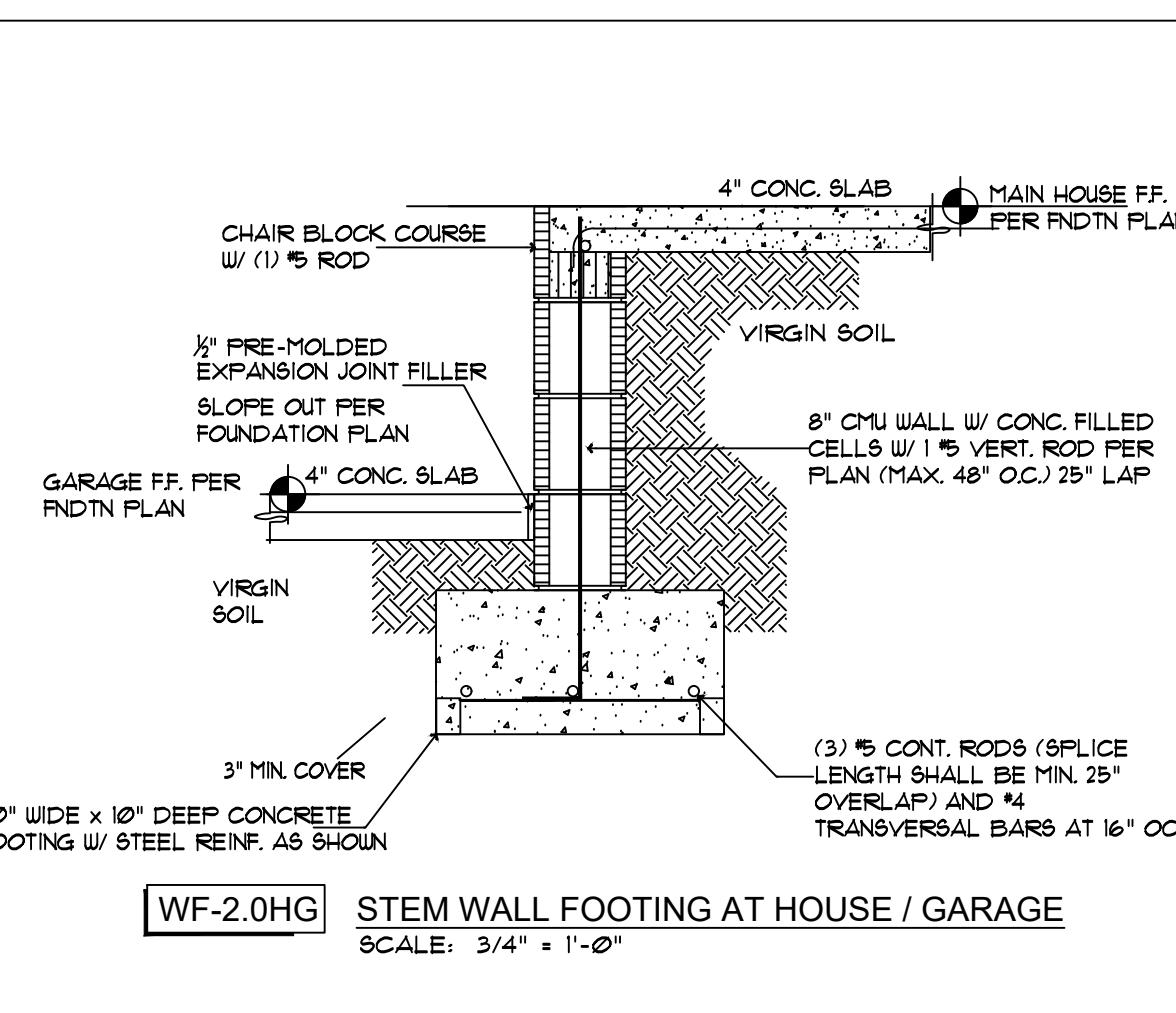
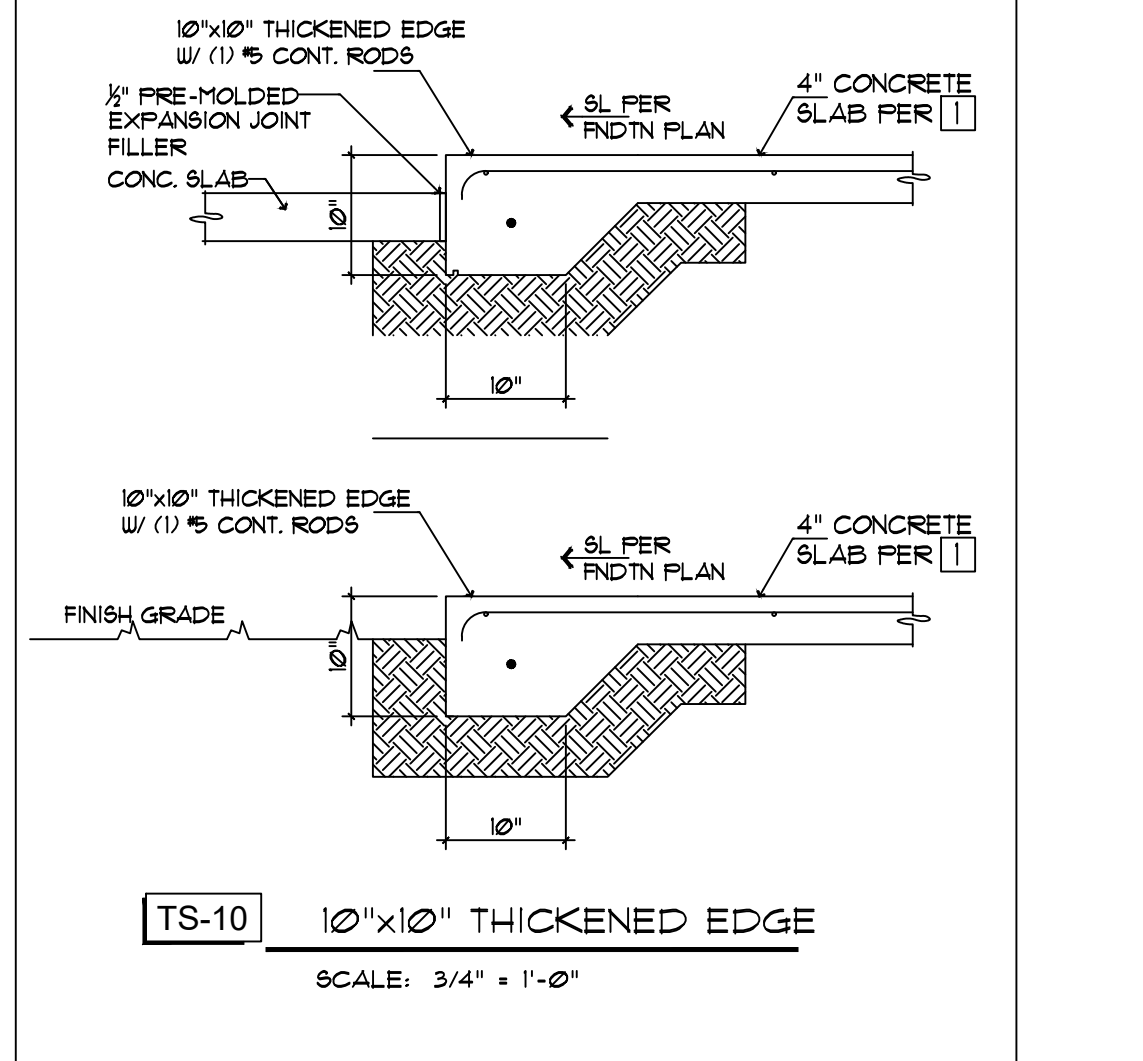
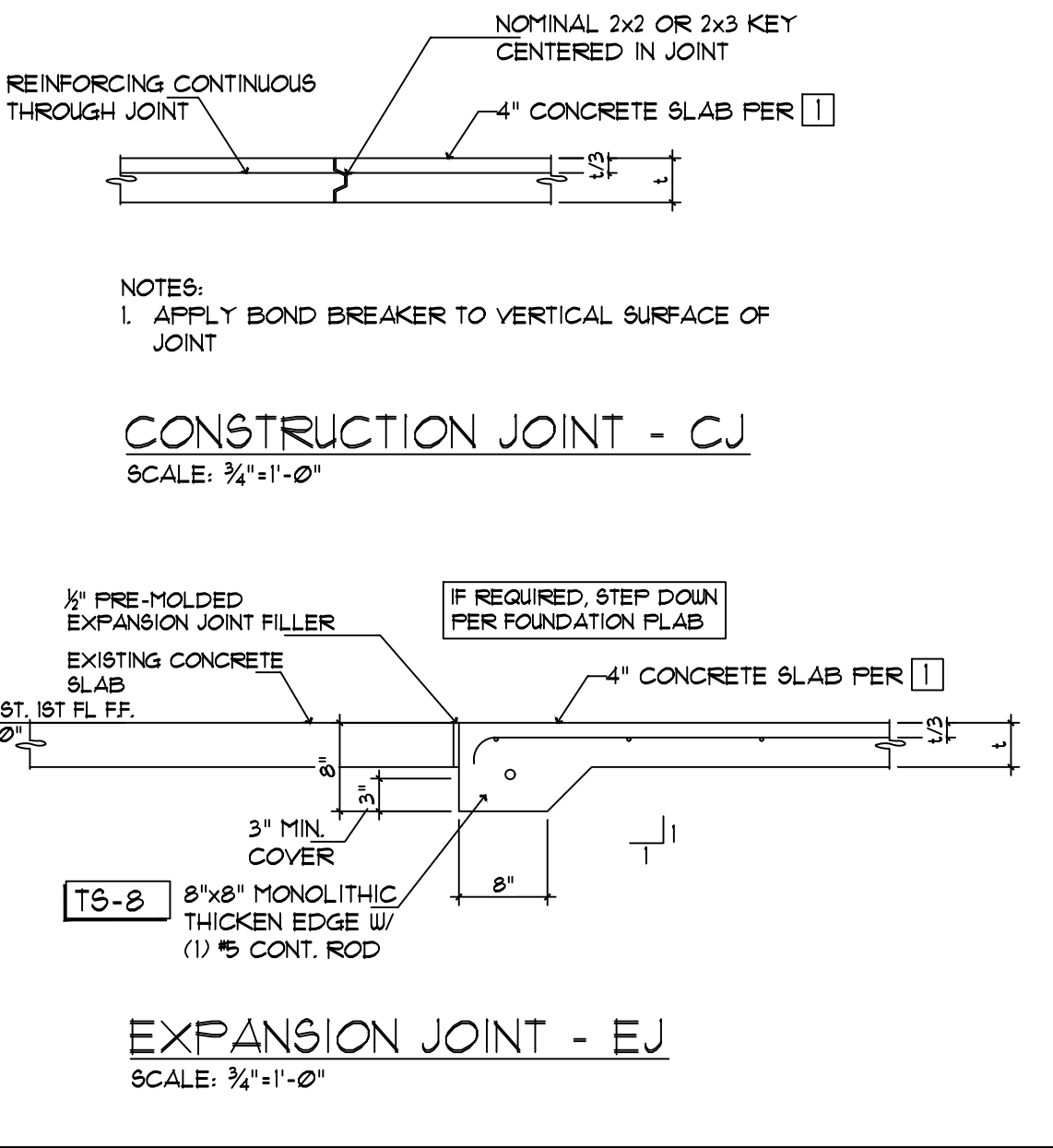
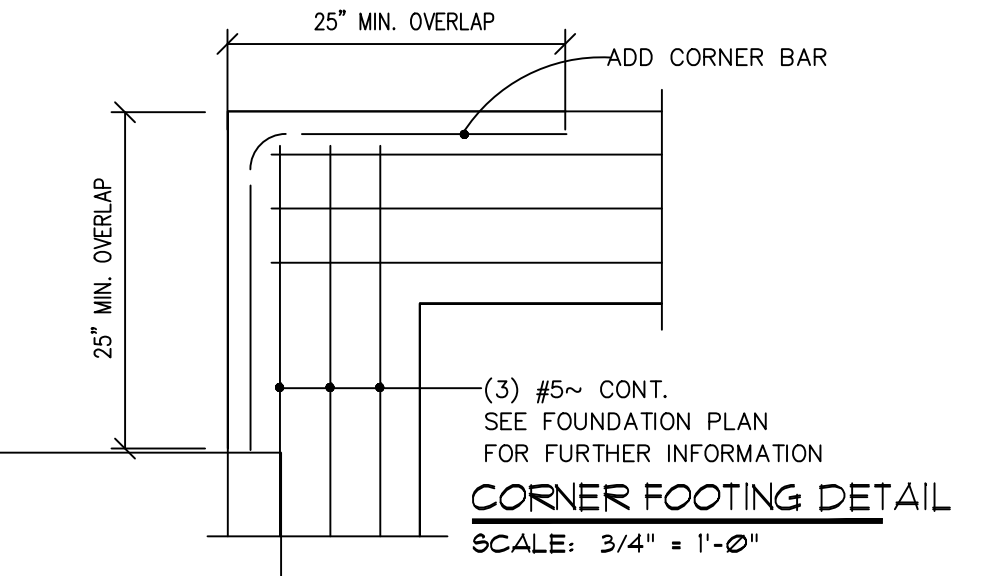
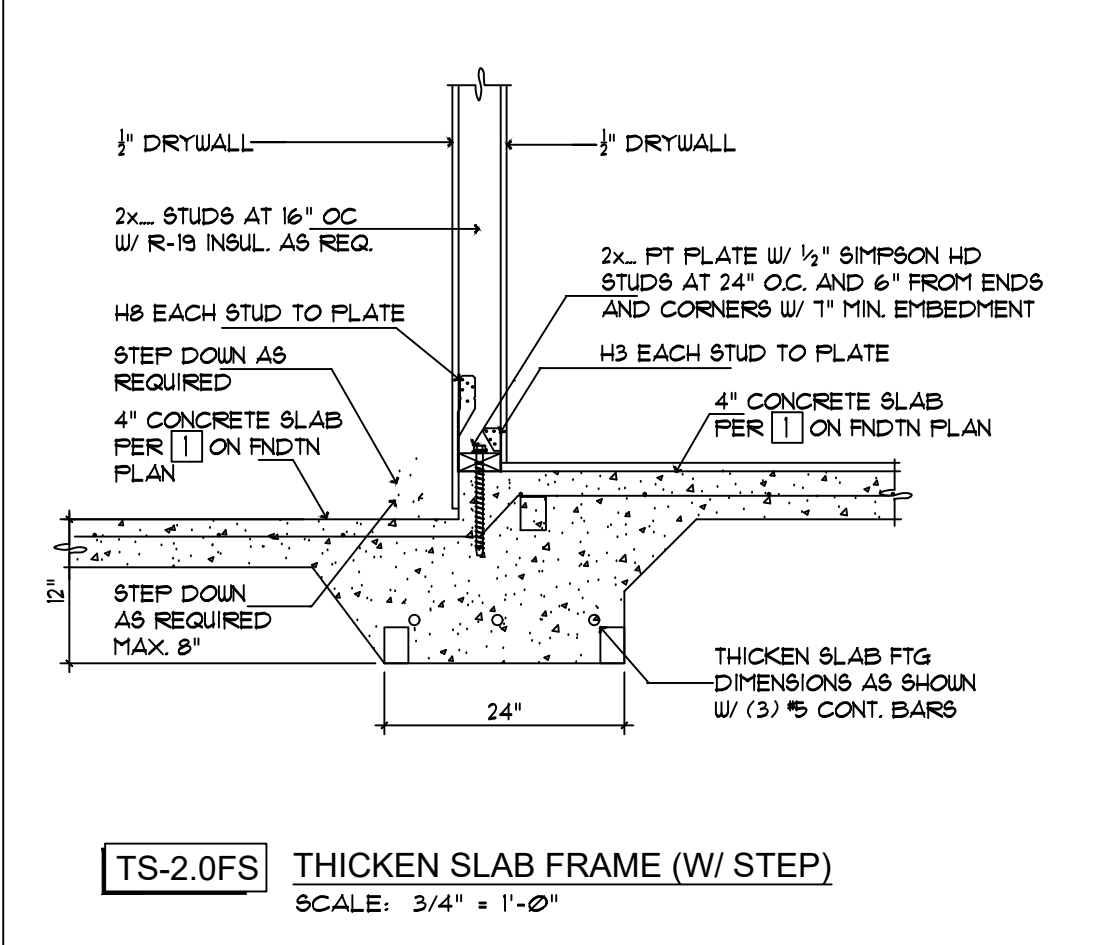
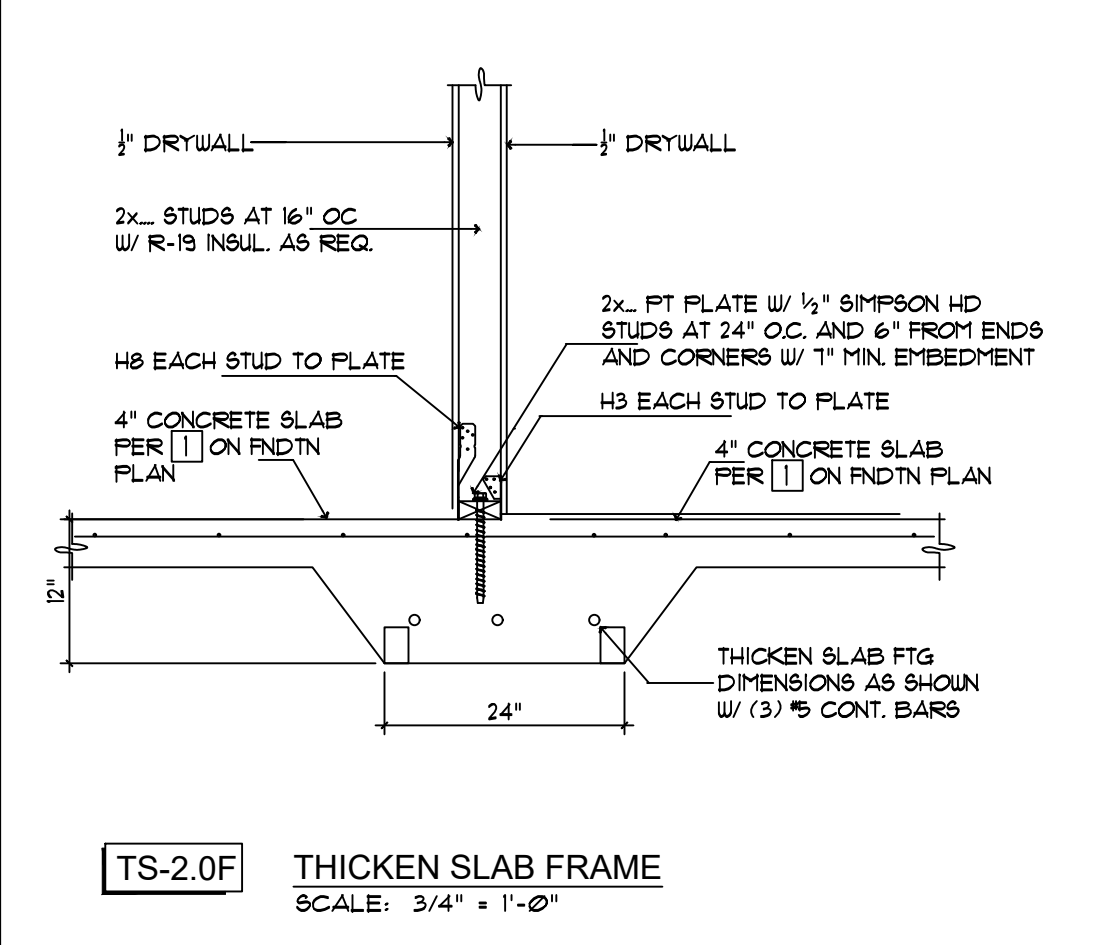
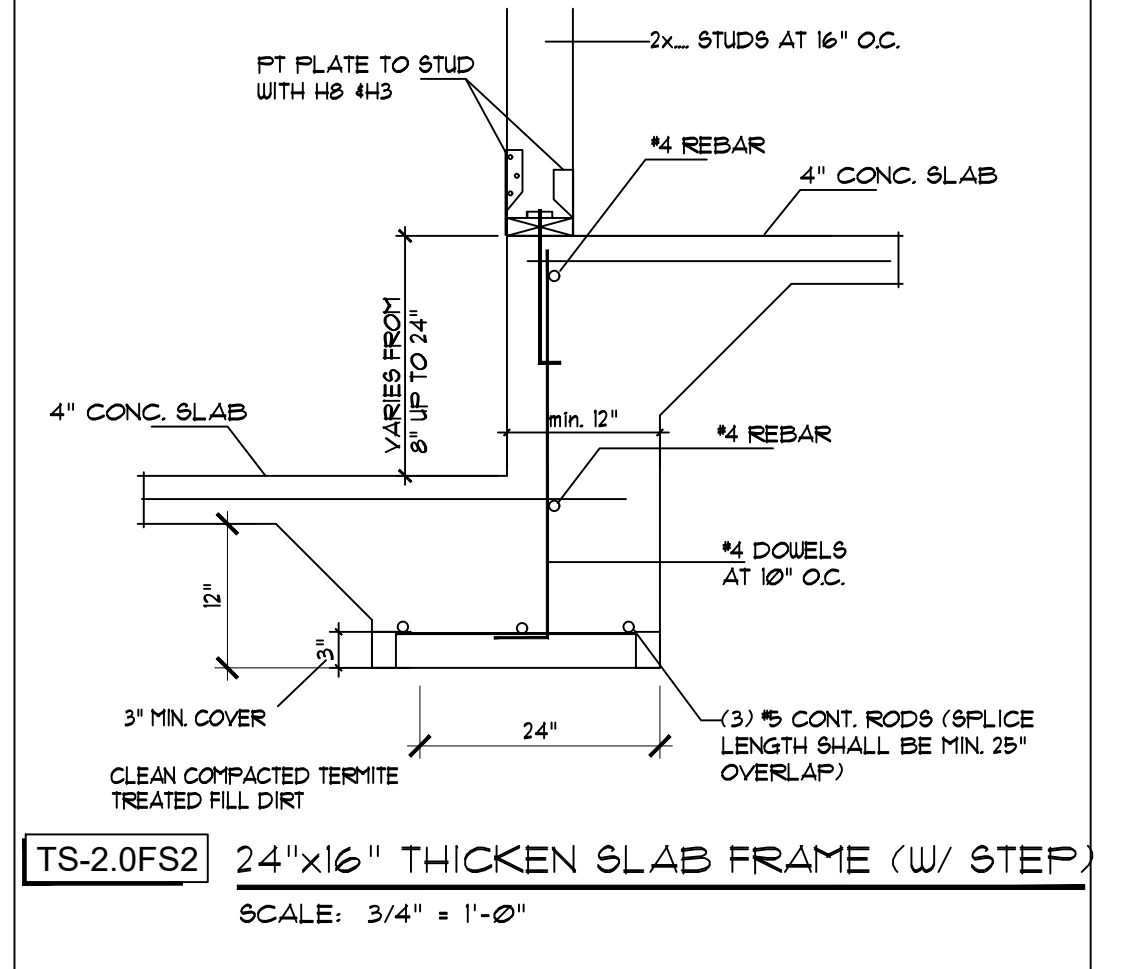
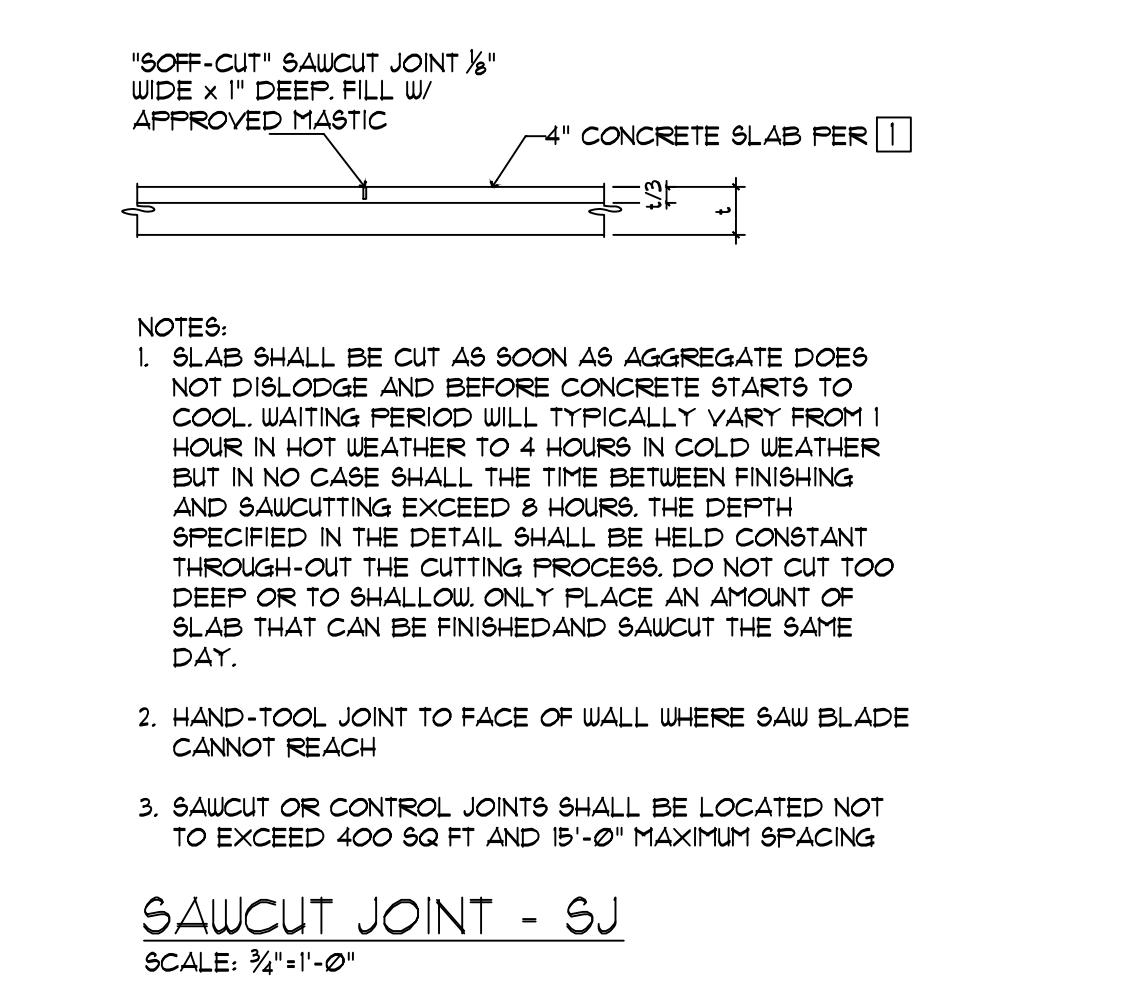
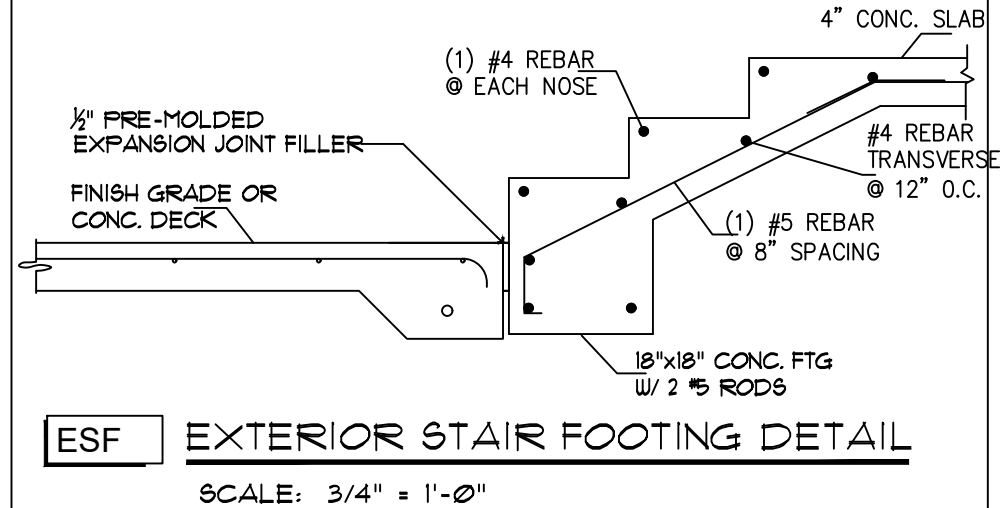
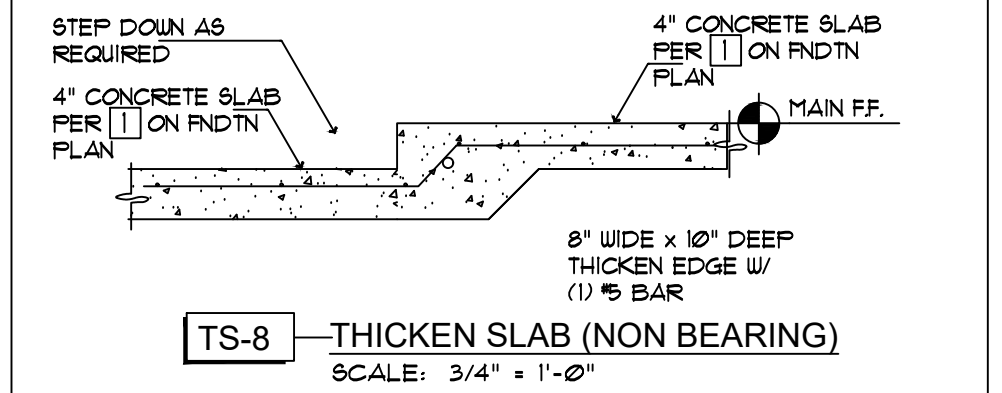
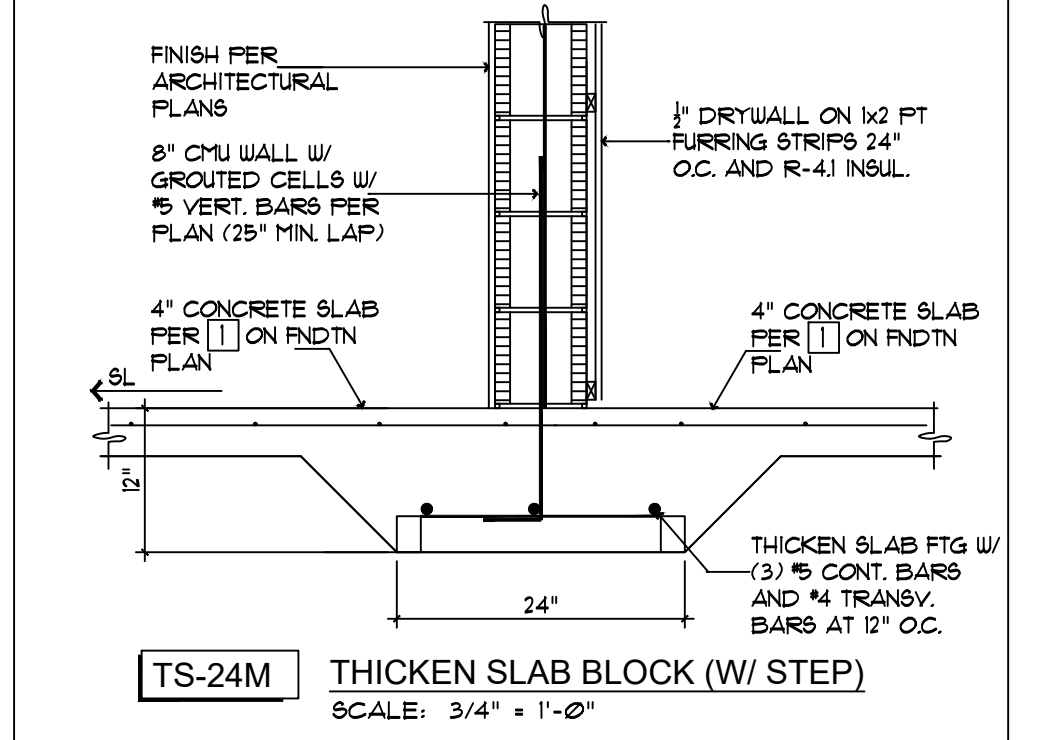
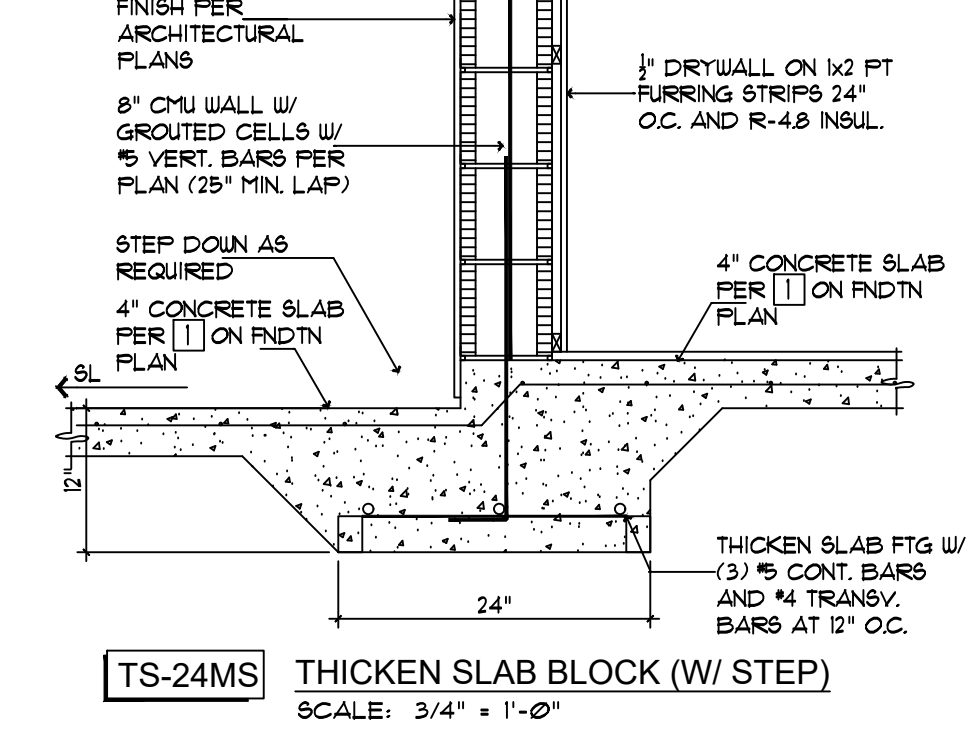
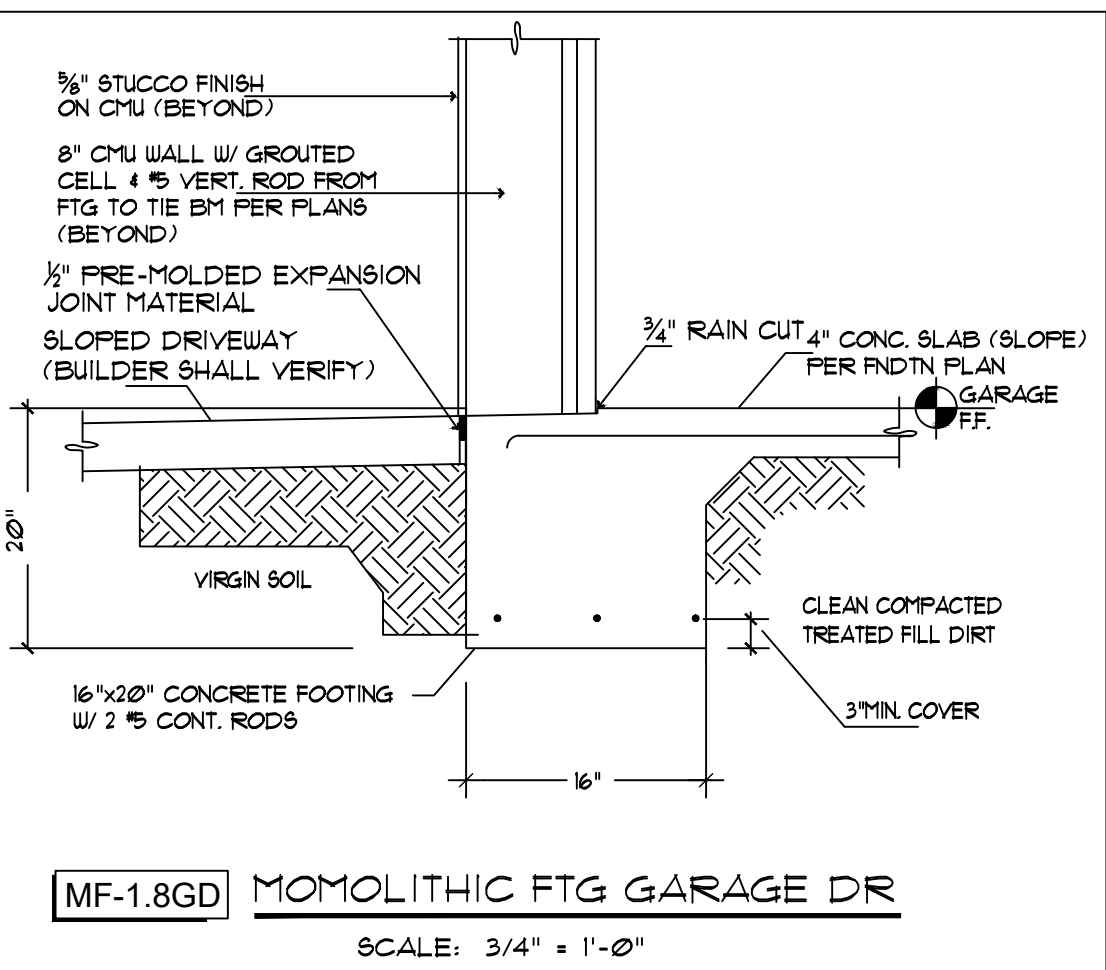
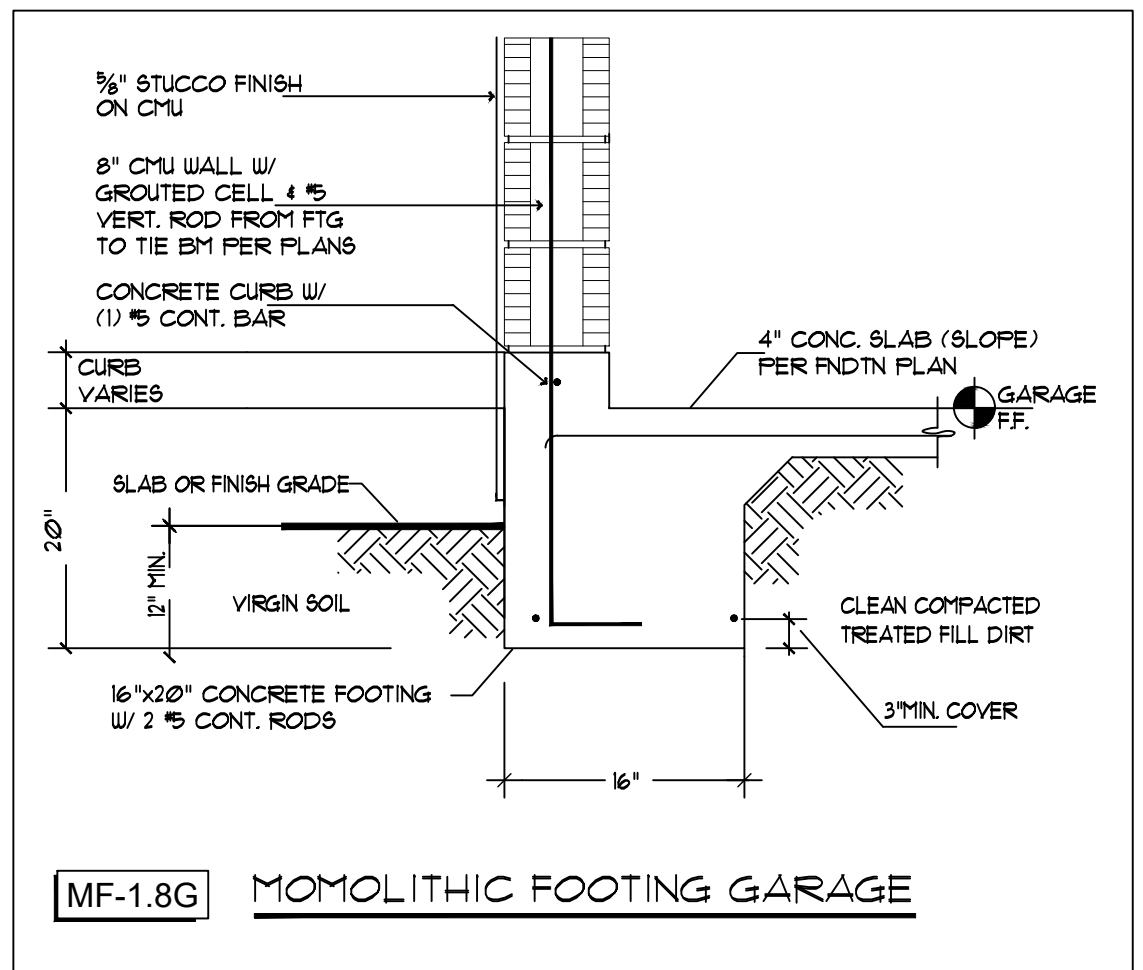
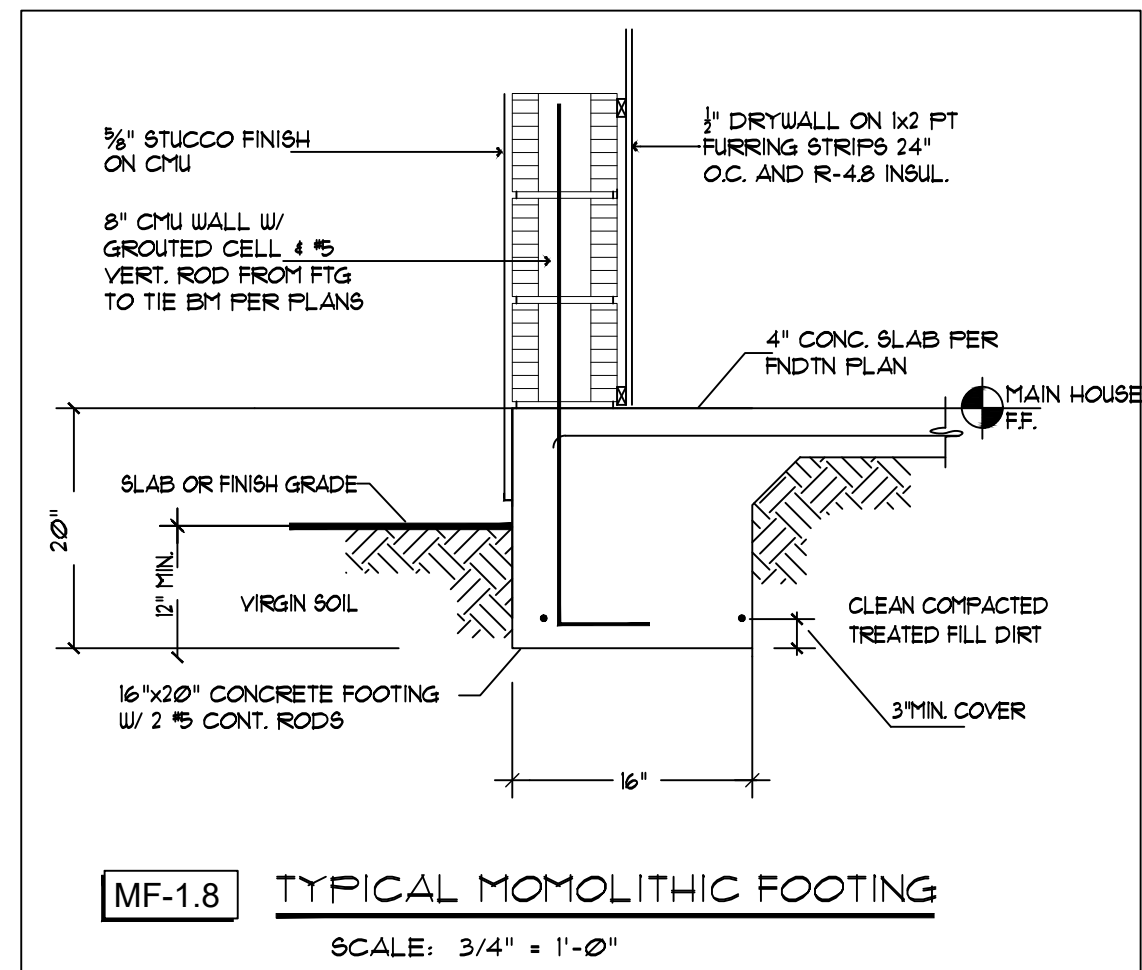
REVISIONS	BY

  
**RESIDENTIAL DESIGN**  
 TEL: 407-402-3487  
 e-mail: ericmclucia@gmail.com  
**DESIGNS**

**LP STRUCTURAL DESIGN, LLC**  
 223 MAGNOLIA CIRCLE  
 EUSTIS, FLORIDA 32726  
 352.989.1935  
 PER: 47617

**NEW HOME DESIGN**  
**GRURECH PROJECT**  
 LOT 12, ROYAL TRAILS RD.  
 EUSTIS FLORIDA 32736

DATE: \_\_\_\_\_  
 SCALE: NOTED  
 DRAWN: EML  
 JOB: \_\_\_\_\_  
 SHEET  
 OF 14 SHEETS



REVISIONS BY

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e-mail: ericmclucia@gmail.com

**Judith** DESIGNS

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OF 14 SHEETS





CONNECTOR SCHEDULE SIMPSON			
CONNECTOR	FASTENERS	UPLIFT (lbs.)	
HETA18	(8) 10d x 1 1/2	1450	
HETA20	1 FLYING 10d x 1 1/2 (2) 3 FLYING 10d	1810	
MTS16	(14) 10d	860	
H25A	5-8d and 5-8d nails uplift 335	110	
HDBA	7/8" Ø ANCHOR BOLT (3) 7/8" Ø BOLTS TO TRUSS	1910	
HTS20	24 - 10d x 1 1/2"	1245	
HETA20	1 FLYING 10 - 10d x 1 1/2 (2) 3 FLYING 9 - 10d	2235	
HGT-2/3/4	(2) 1/2" ANCHOR BOLTS TO IMPROVE TO GRouted CHU (1) 1/2" Ø NAILS	10530	
SP-1	6 - 10d	585	
SP-2	6 - 10d	890	
SP-4	6 - 10d x 1 1/2"	135	
CS16-R CUT LENGTH TO FIT	22 - 10d	1650	
HIDA-1	5-10d x 1 1/2" to rafter/truss uplift 1095	1095	
HIDA-2	5-10d x 1 1/2" to plates uplift 1095	1095	
LSTA4	18 - 10d	1295	
LSTA30	22 - 10d	1610	
LSTA36	26 - 10d	1715	
MSTA36	26 - 10d	1995	
HUCQ12-SDS25	4-SDS4x12 1/2" to face 6-SDS4x12 1/2" to joint	grv 5560 uplift 3675	
HUS26	14 - 16d	950	
HGUS48	36 - 16d	2650	
HHS5010	36-16d nails to ganging br and 16-16d nails to carried beam	grv 6380 uplift 3245	
HTT4	1/2" ANCHOR BOLT 5-10d x 1 1/2"	4455	
HTT5	1/2" ANCHOR BOLT 5-10d x 1 1/2"	5020	
ABU44Z	1/2" Ø ANCHOR BOLT 5-10d x 1 1/2"	2200	
ABU6E2	1/2" Ø ANCHOR BOLT 5-10d x 1 1/2"	2475	
HUCQ12-SDS25	4-SDS4x12 1/2" to face 6-SDS4x12 1/2" to joint	grv 5560 uplift 3675	
MST21	30 - 16d	2190	
HGA10	41-16d x 1 1/2" to rafter/truss 16-16d x 1 1/2" to plate	grv 1030 uplift 1095	
HIDA-2 2 FLY	5-10d x 1 1/2" to plates uplift 1095	1095	

CONNECTORS TO EXISTING GROUTED CHU SIMPSON			
CONNECTOR	FASTENERS	UPLIFT (lbs.)	
HTS16	(7) 10d x 1 1/2 NAILS (4) 1/4" x 2 1/2" LAG SCREWS	830	
HTS18	(7) 10d x 1 1/2 NAILS (4) 1/4" x 2 1/2" LAG SCREWS	830	
MSTA24	(7) 10d NAILS (4) 1/4" x 2 1/2" LAG SCREWS	1465	
MSTA36	(7) 10d NAILS (4) 1/4" x 2 1/2" LAG SCREWS	1810	
MSTA40	(7) 10d NAILS (4) 1/4" x 2 1/2" LAG SCREWS	2475	
CS16-R CUT LENGTH TO FIT	(7) 10d NAILS (4) 1/4" x 2 1/2" LAG SCREWS	1650	
HUCQ12-SDS25	4-SDS4x12 1/2" to face 6-SDS4x12 1/2" to joint	grv 5560 uplift 3675	
HUCQ40 MASONRY HANGER	(18) 1/2" x 2 1/4" LAG SCREWS	grv 4500 uplift 1810	
HGUS48 MASONRY HANGER	(18) 1/2" x 2 1/4" LAG SCREWS	grv 4500 uplift 1810	
MSTA40 MASONRY HANGER	(18) 1/2" x 2 1/4" LAG SCREWS	grv 4500 uplift 1810	
HUCQ40 (max) MASONRY HANGER	(18) 1/2" x 2 1/4" LAG SCREWS	grv 4500 uplift 1810	

CONNECTOR SCHEDULE SIMPSON			
CONNECTOR	FASTENERS	UPLIFT (lbs.)	
LG72	(7) 10d x 1 1/2 NAILS TO STUDS (2) 10d x 1 1/2 NAILS TO GIRDER	1780 up/1780	
LG73	(7) 10d x 1 1/2 NAILS TO STUDS (2) 10d x 1 1/2 NAILS TO GIRDER	3710 up/1780	
MGT	(2) 10d NAILS TO GIRDER	3965 up/1780	
A35	(2) 10d x 1 1/2 NAILS	270 up/1780	
HGUS48/25/1	8-1/2" x 1/2" TITEN HD ANCHORS 1/4" x 2 1/4" LAG SCREWS	1000 GRAVITY 6000 PLF	
LST10	TOTAL OF (2) 10d NAILS FOR ONE SIDE APPLICATION RESIST ROTATION AND BLOCKING FROM OPPOSITE SIDE	270 up/1780	
LG73	(7) 10d x 1 1/2 NAILS TO STUDS (2) 10d x 1 1/2 NAILS TO GIRDER	3710 up/1780	
ABU6E (MAX)	(16) Ø1/2" x 1 1/2" NAILS TO POST AND BEAM	UP/1780 LAT: 2670	

## ROOF NAILING SCHEDULE

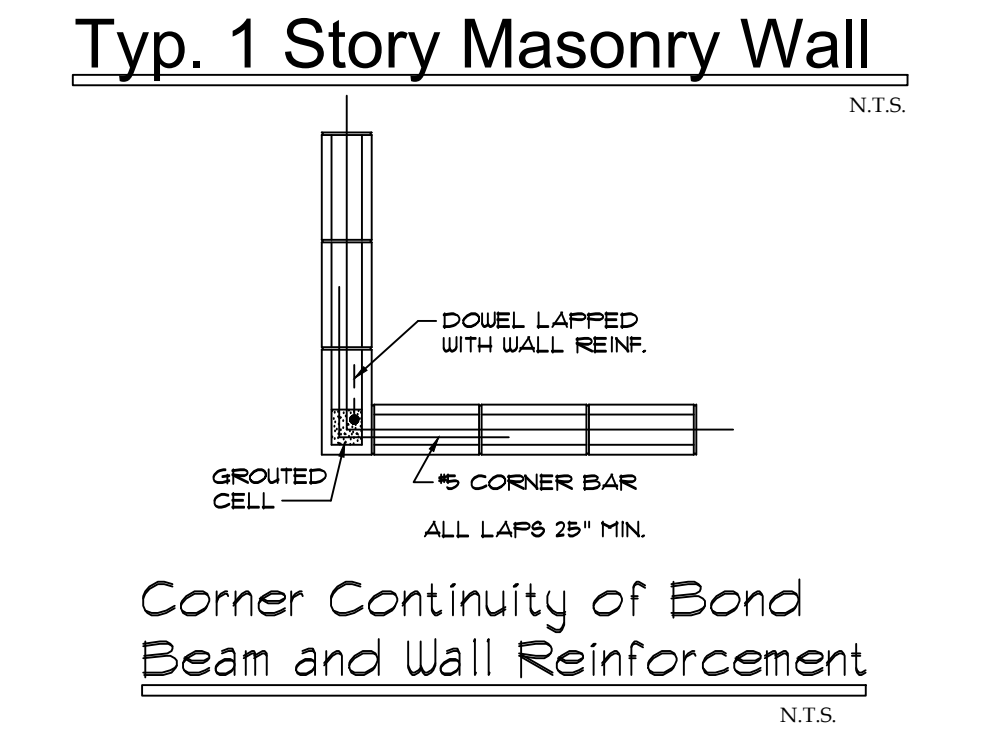
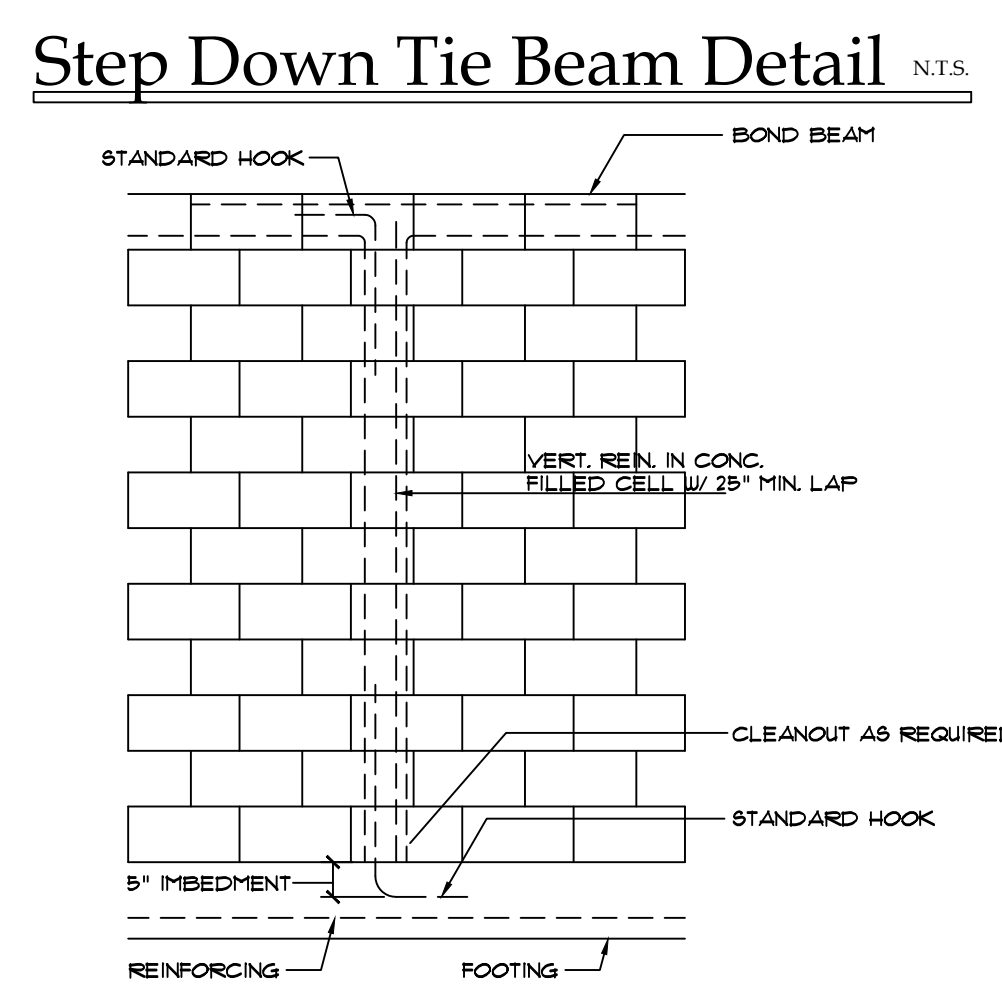
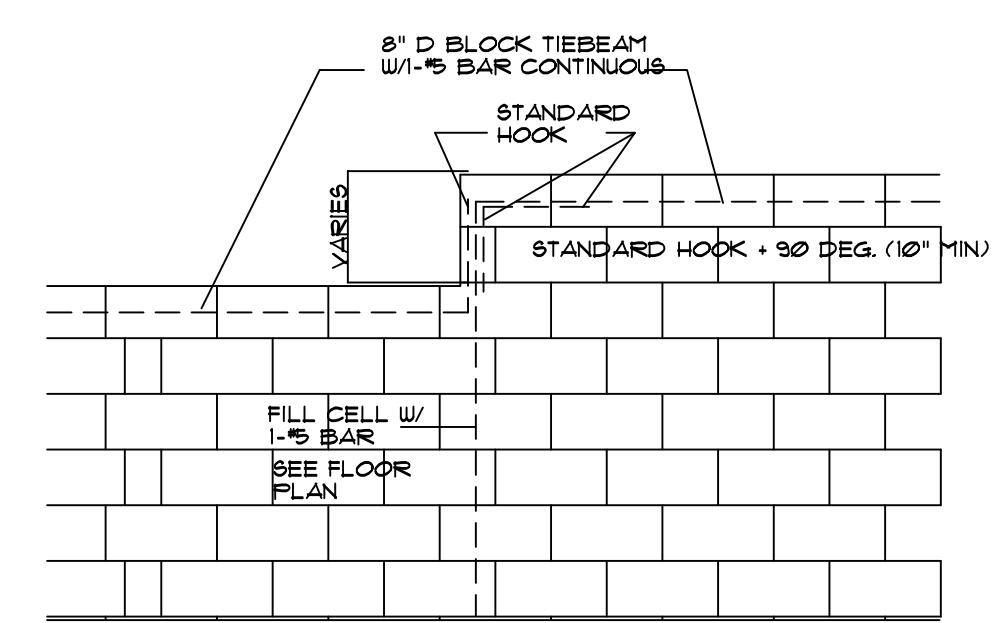
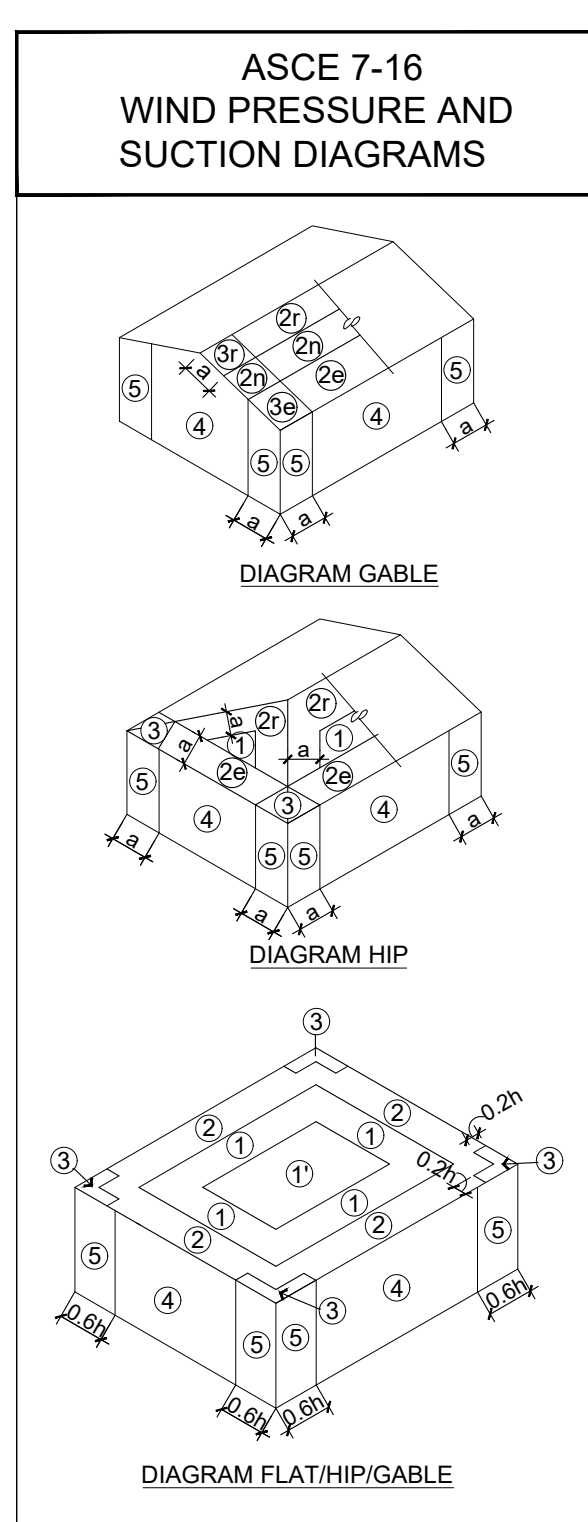
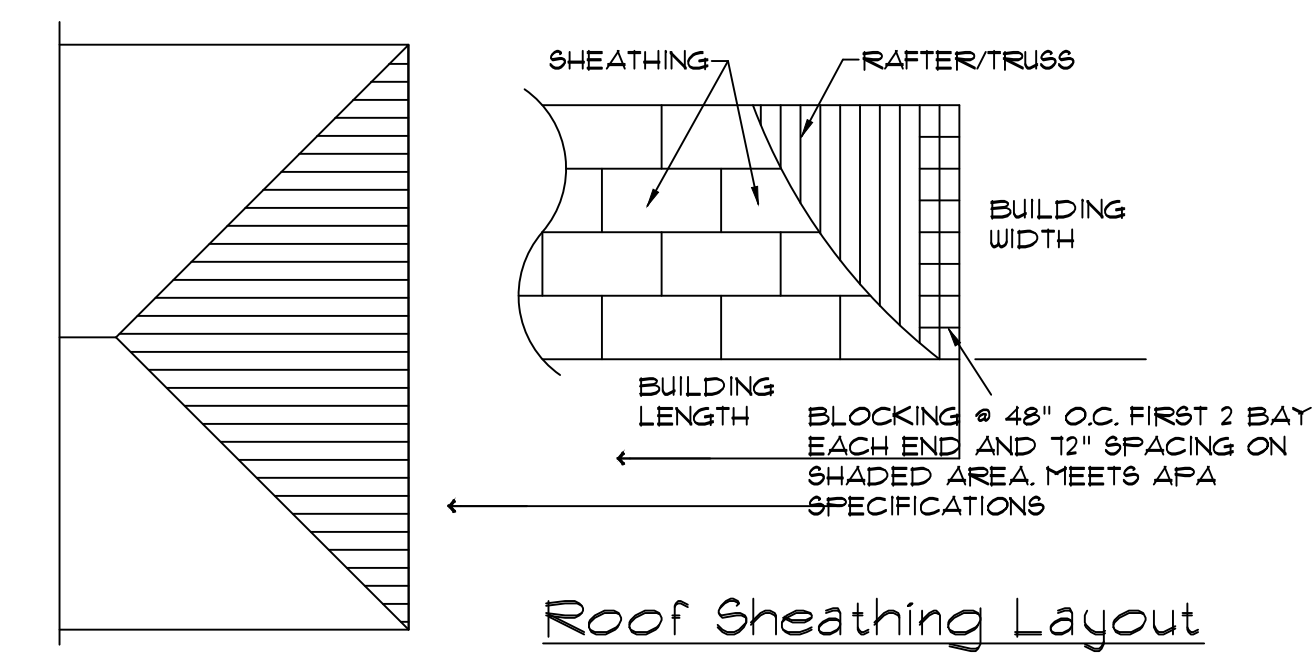
### NAILING ZONES SHINGLE, METAL AND TILE

Where the sheathing thickness is greater than 15/32 inches, sheathing shall be fastened with ASTM F1667 RRS-03 (2 1/2" x 0.131") nails or ASTM F1667 RRS-04 (3" x 0.131") nails. RRS-01, RRS-02 and RRS-04 are ring shank nails meeting the specifications in ASTM F1667.

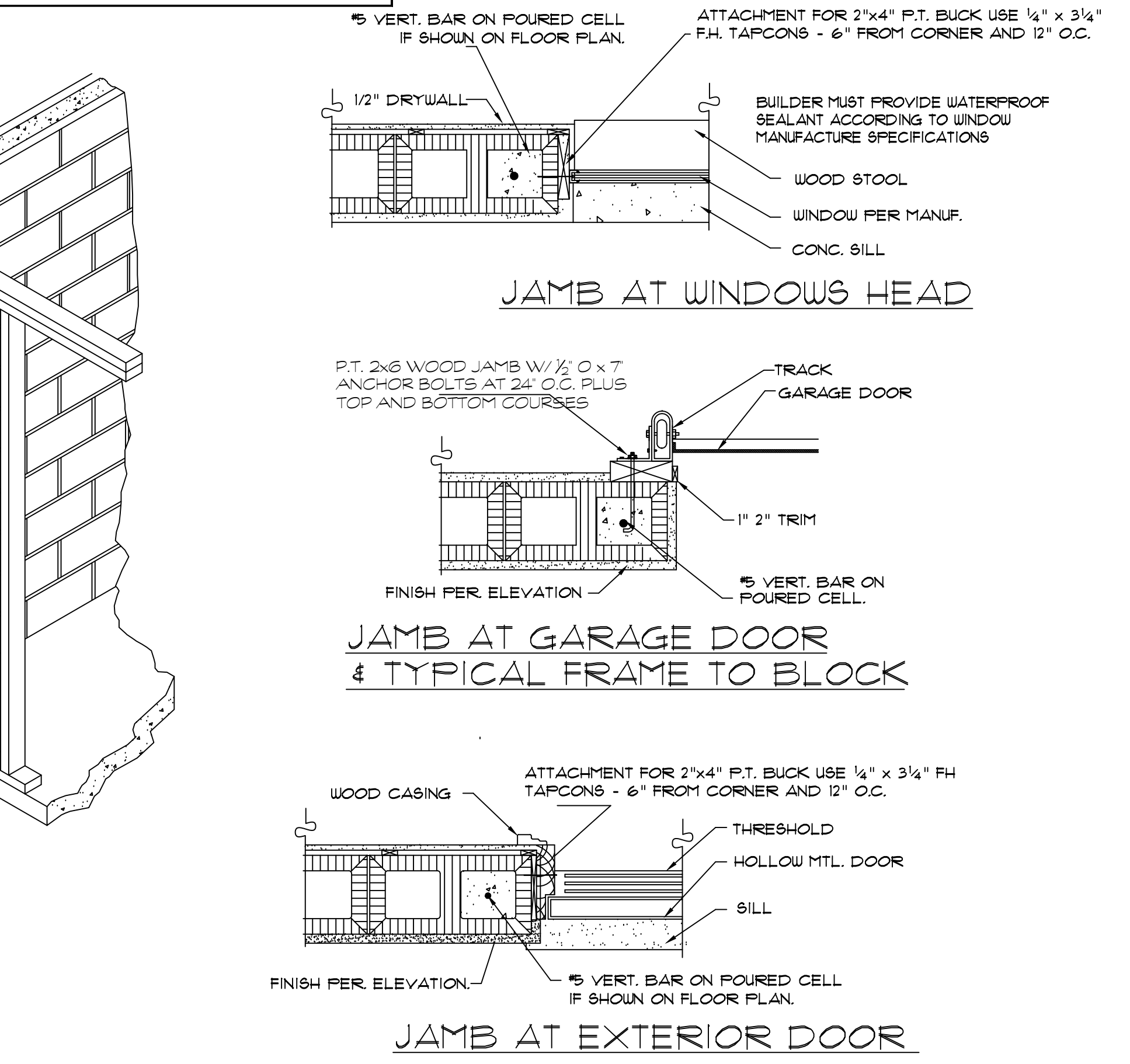
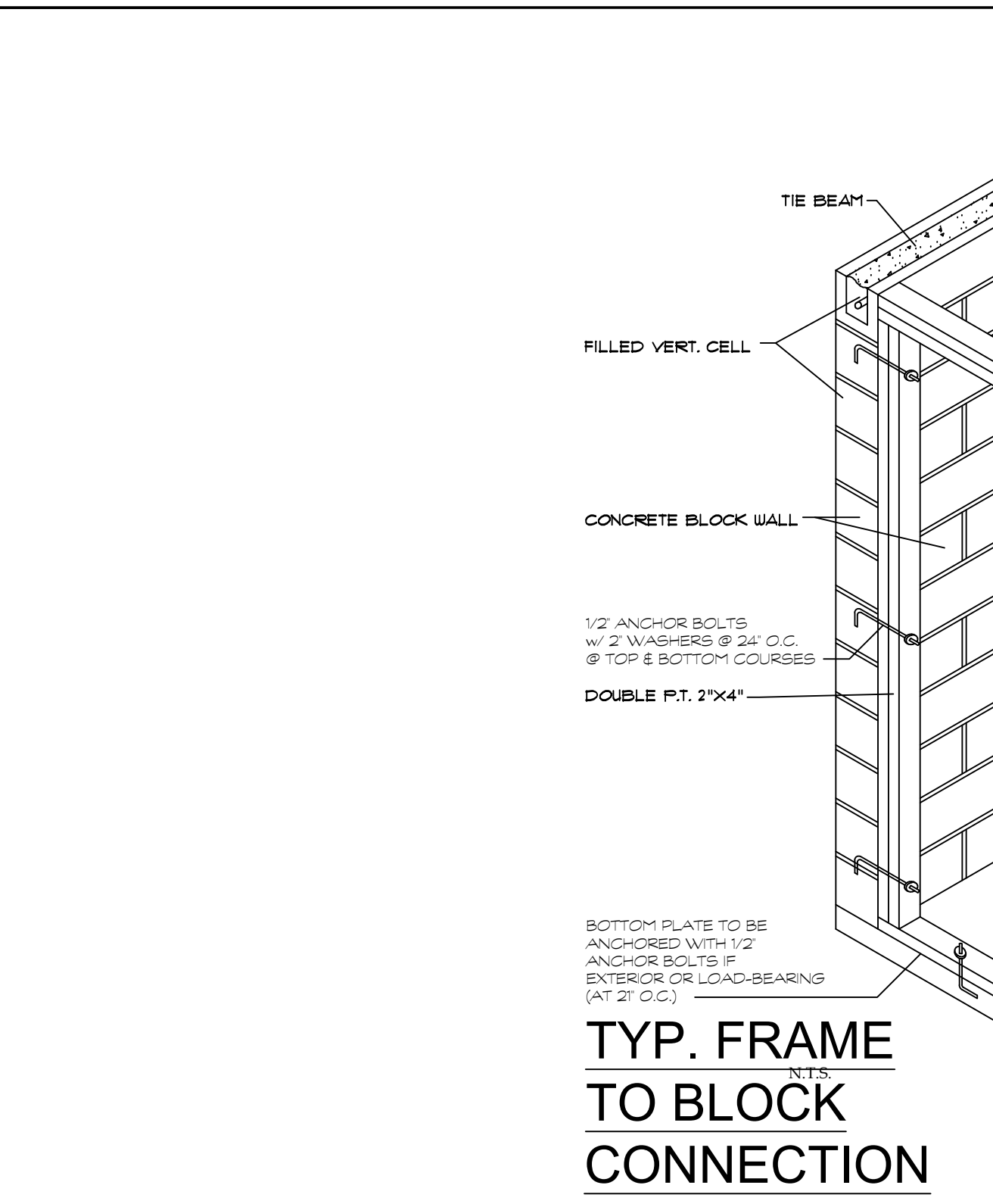
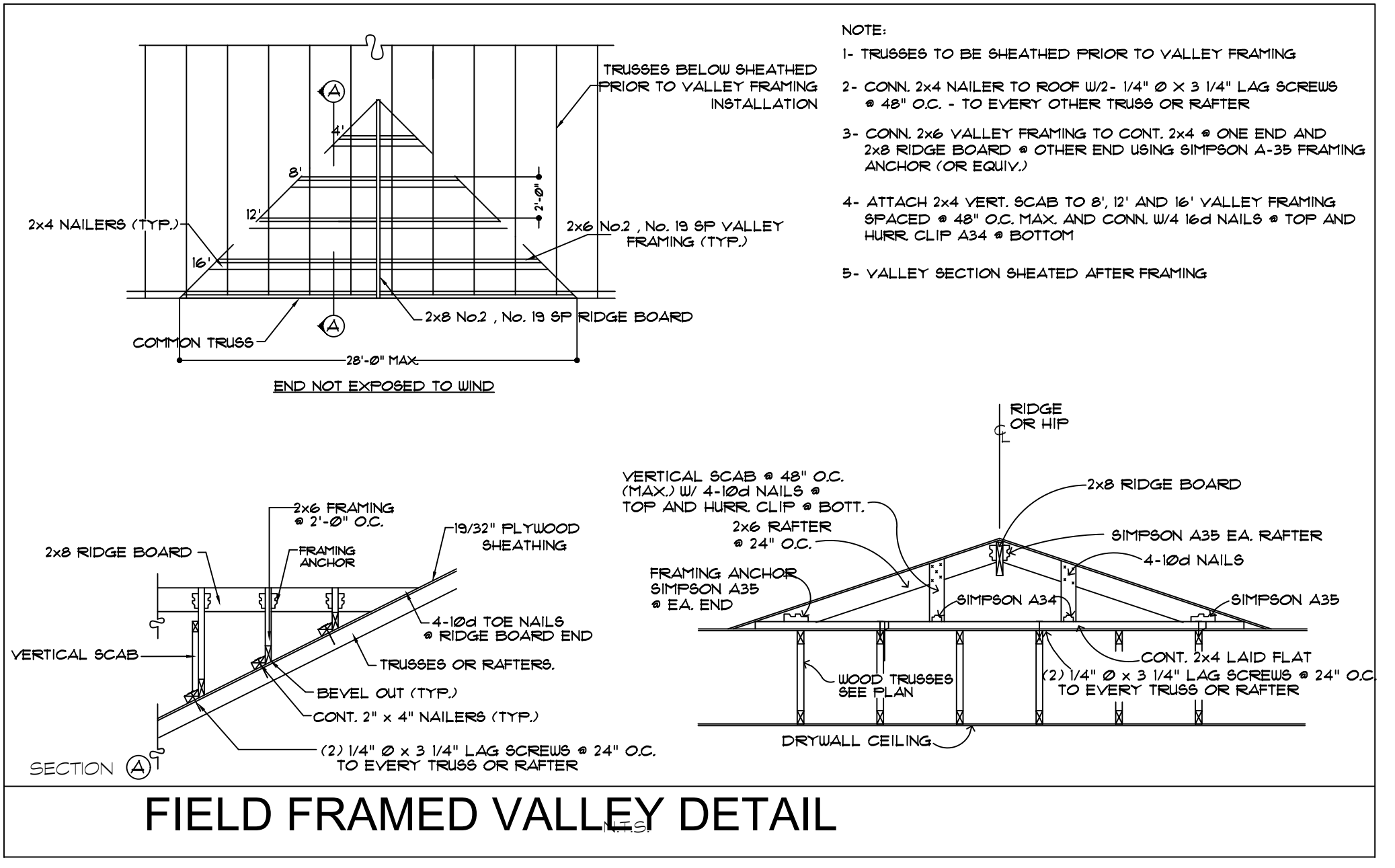
FOR 3/8" OR LESS SHEATHING, ASTM F1667 RRS-01 (2 1/2" x 0.131") nails.

- FLAT/HIP/GABLE ROOF 0 TO 7 DEGREE**
- ZONE ① ----- : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONE ② ----- : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONE ③ AND ④ : 4" O.C. EDGE AND 4" O.C. IN FIELD
- GABLE SYSTEMS**
- ZONE ① AND ② : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONE ② AND ③ : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONE ③ AND ④ : 4" O.C. EDGE AND 4" O.C. IN FIELD
- HIP SYSTEMS**
- ZONE ① ----- : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONE ② ----- : 6" O.C. EDGE AND 6" O.C. IN FIELD
- ZONE ③ AND ④ : 4" O.C. EDGE AND 4" O.C. IN FIELD

- 1x12 / 1x10 BOARD (3) 10d. NAILS PER BOARD EDGES 4 FIELD ALL ZONES
- 1x6 / 1x8 BOARD (2) 10d. NAILS PER BOARD EDGES 4 FIELD ALL ZONES
- NOTE:  
(1) EDGE SPACING ALSO APPLIES OVER GABLE END WALLS OR TRUSSES  
(2) PASLODE 3" x Ø39" DIAMETER POWER DRIVEN COATED SCREW NAILS MAY BE USED IN LIEU OF 10d. RING SHANK NAILS WITH REDUCED SPACING AS NOTED BELOW.  
12" SPACING CHANGES TO 8", 6" TO 4", AND 4" OR 3" CHANGES TO 2 1/2".
- 1/2" GYPSUM CEILING: Use 8d Nails @ 7" on center  
SECOND FLOOR NAILING: 10d @ 6" O.C. Edges (glue & nail) @ 12" O.C. Field



- TYPICAL CONNECTIONS AND DETAILS**
- (1) STUDS @ 2 OR @ 2 X 2 TOP AND @ 2 BASE - TYP. # 1 STORY
- (2) STUDS @ 2 OR @ 2 X 2 TOP AND @ 2 BASE - TYP. # 1 STORY
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