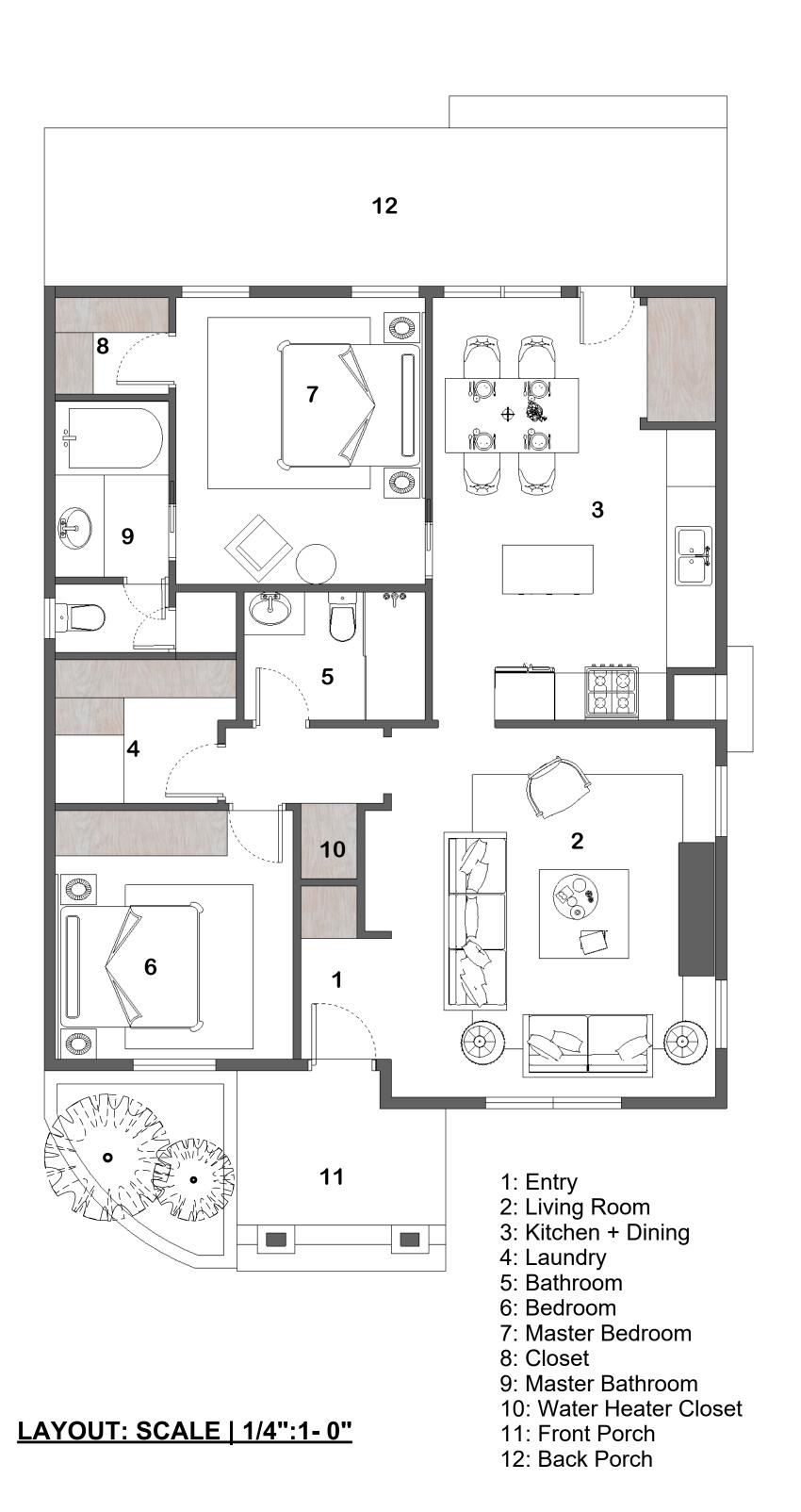
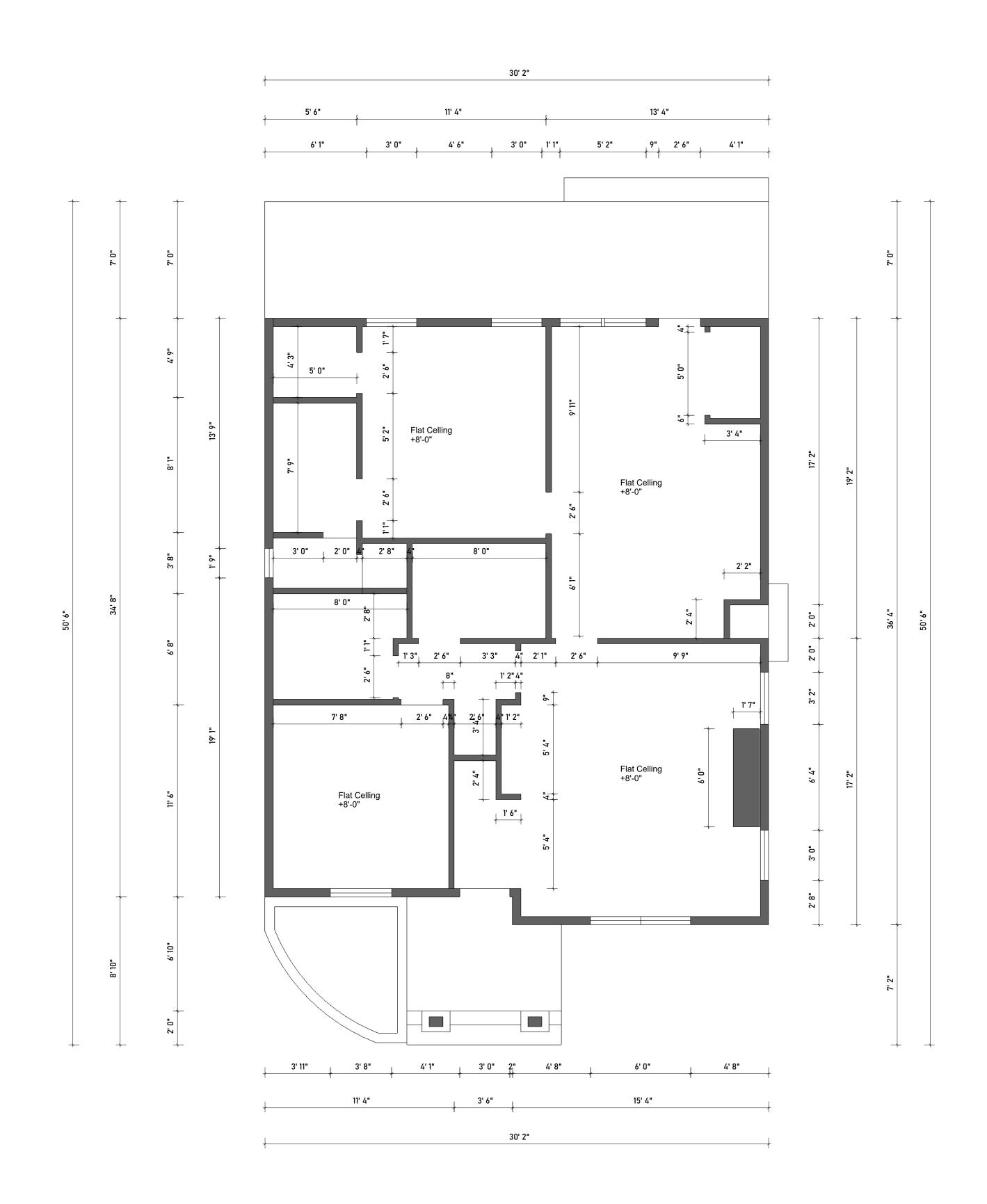




AVN STUDIO - HOUSE PLAN A504

CLIENT	PROJECT	PROJECT NO.	ISSUE	DRAWN BY
Sergio Luna	A504	354	02/25/2024	AVN STUDIO





DIMENSIONS: SCALE | 1/4":1-0"

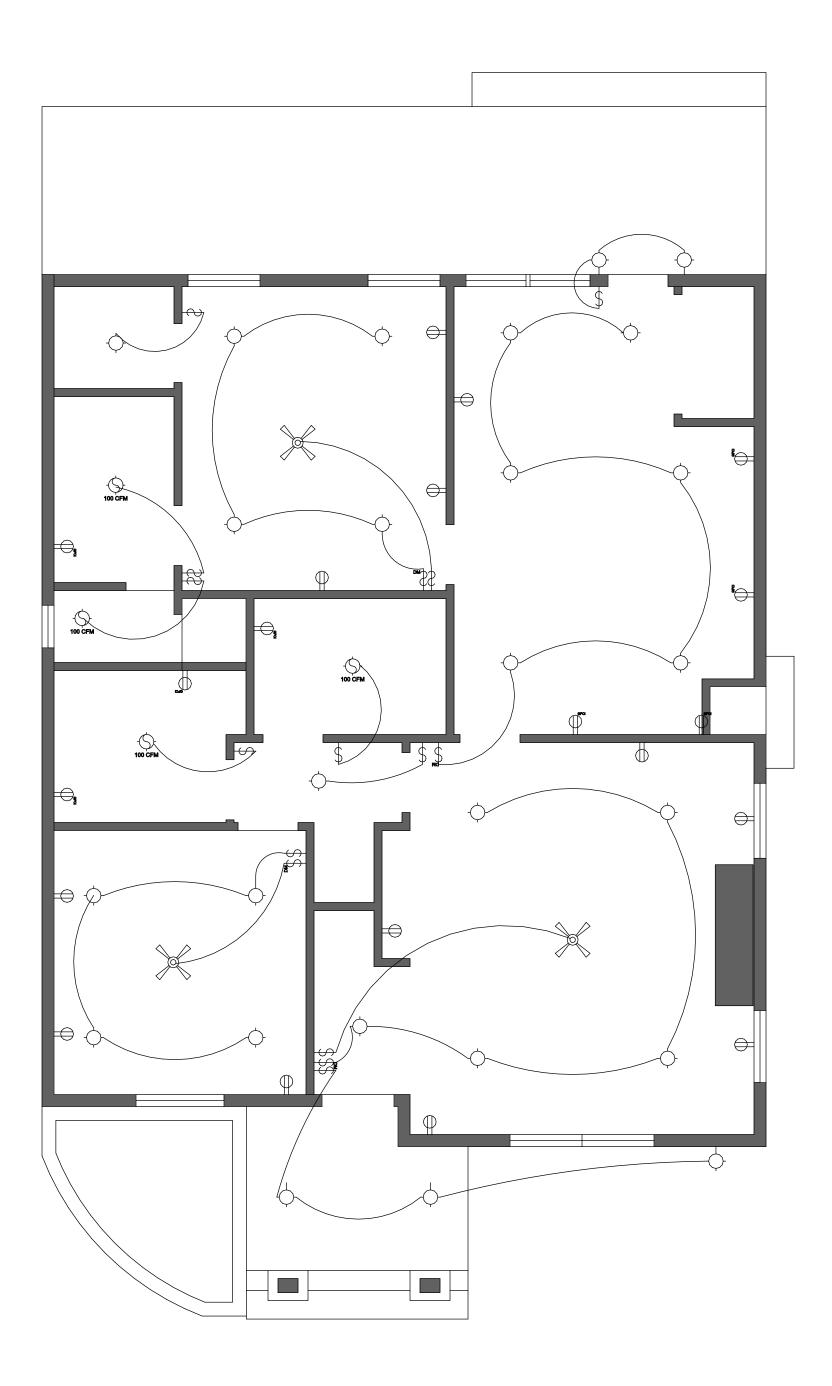
DESCRIPTION LAYOUT & DIMENSIONS Scale | 1/4":1'-0"

PROJECT NO. 354 PROJECT A504

CLIENT Sergio Luna

SIZE		TVDE	MATERIAL								
	WID ⁻	T HEI GHT	THICKN ESS	-TYPE	MATERIAL						
DO	DR		1				V	N3	W3	W4	D2
D1	36"	7'6"	1 3/4"	Single, inward- swinging door			D3	3			
D2	2'6"	7'6"	1 3/4"	Single, inward- swinging door		Γ					
D3	2'6"	7'6"	1 3/4"	Single, inward- swinging door				_			
D4	2'	7'6"	1 3/4"	Single, inward- swinging door		-	D4			D5	
D5	2'6"	7'6"	1 3/4"	Poket door		W5	D ₂	4			
D6	2'	7'6"	1 3/4"	Single, Outward- swinging door				D3		L _	
WIN	DOW	,				L		D3 D3	_		
W1	6'0"	5' 1"	1 3/4"	Double-hung window							
W2	3'8"	5' 1"	1 3/4"	Double-hung window				Г	L		
W3	3'0"	5' 1"	1 3/4"	Double-hung window	***						
W4	5'2"	5'1"	1 3/4"	Double-hung window		L	W2		D1		
W5	1'9"	2' 0"	1 3/4"	Awning window			- 				W1

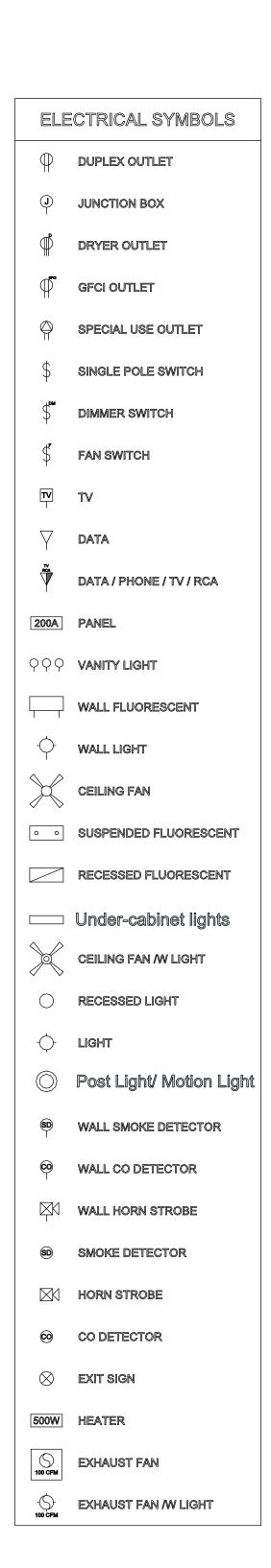
DOOR & WINDOW: SCALE | 1/4":1-0"



ELECTRICAL PLAN: SCALE | 1/4":1-0"

- *** Note:
- Bedrooms and living rooms: Use THHN or PVC wire with a cross-sectional area of 2.5 mm² for electrical outlets and lighting fixtures.
 Kitchen: Use THHN or XLPE wire with a cross-sectional area of 4 mm² for high-power appliances such as electric stoves and ovens.
 Bathrooms: Use moisture-resistant XLPE wire



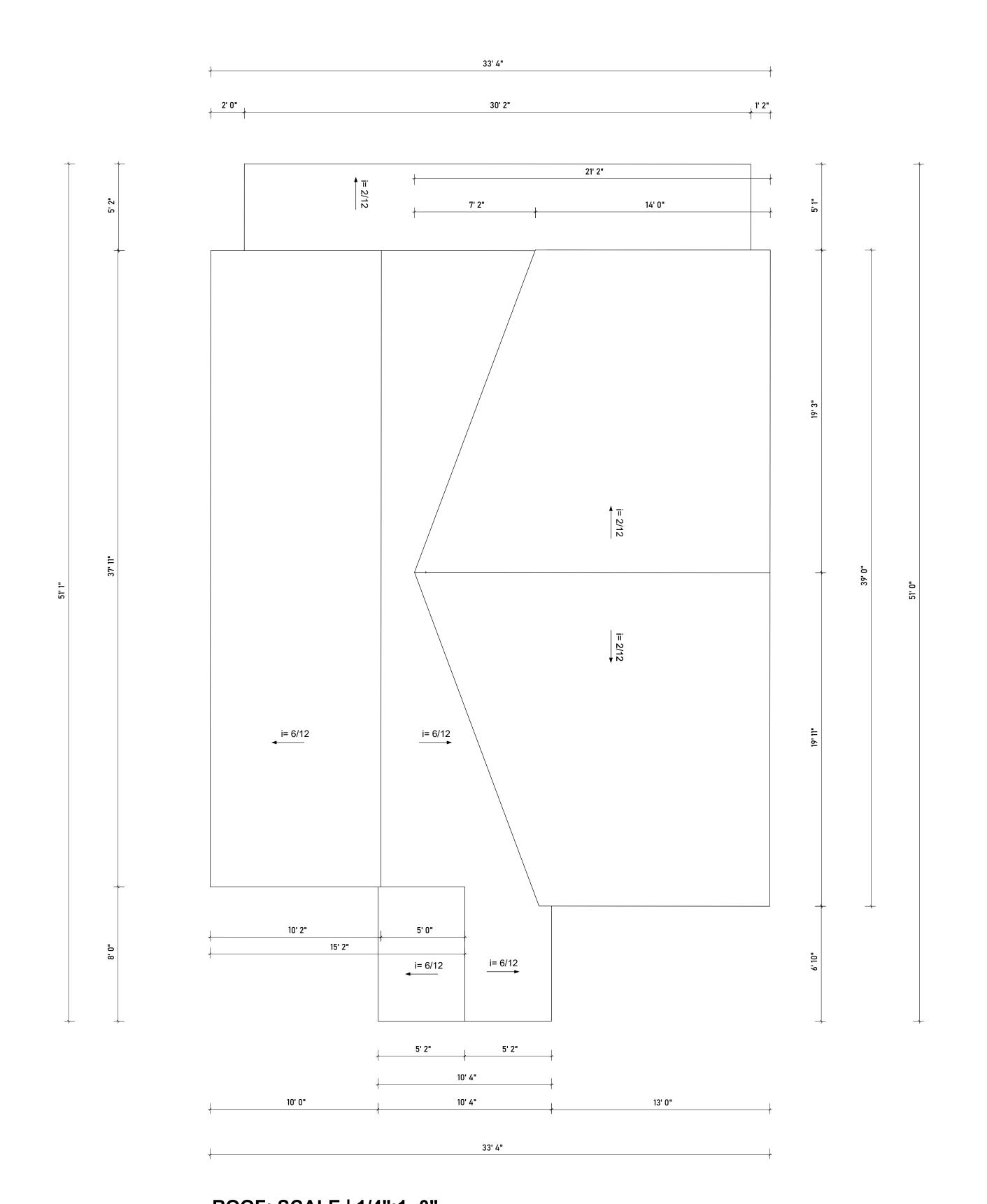


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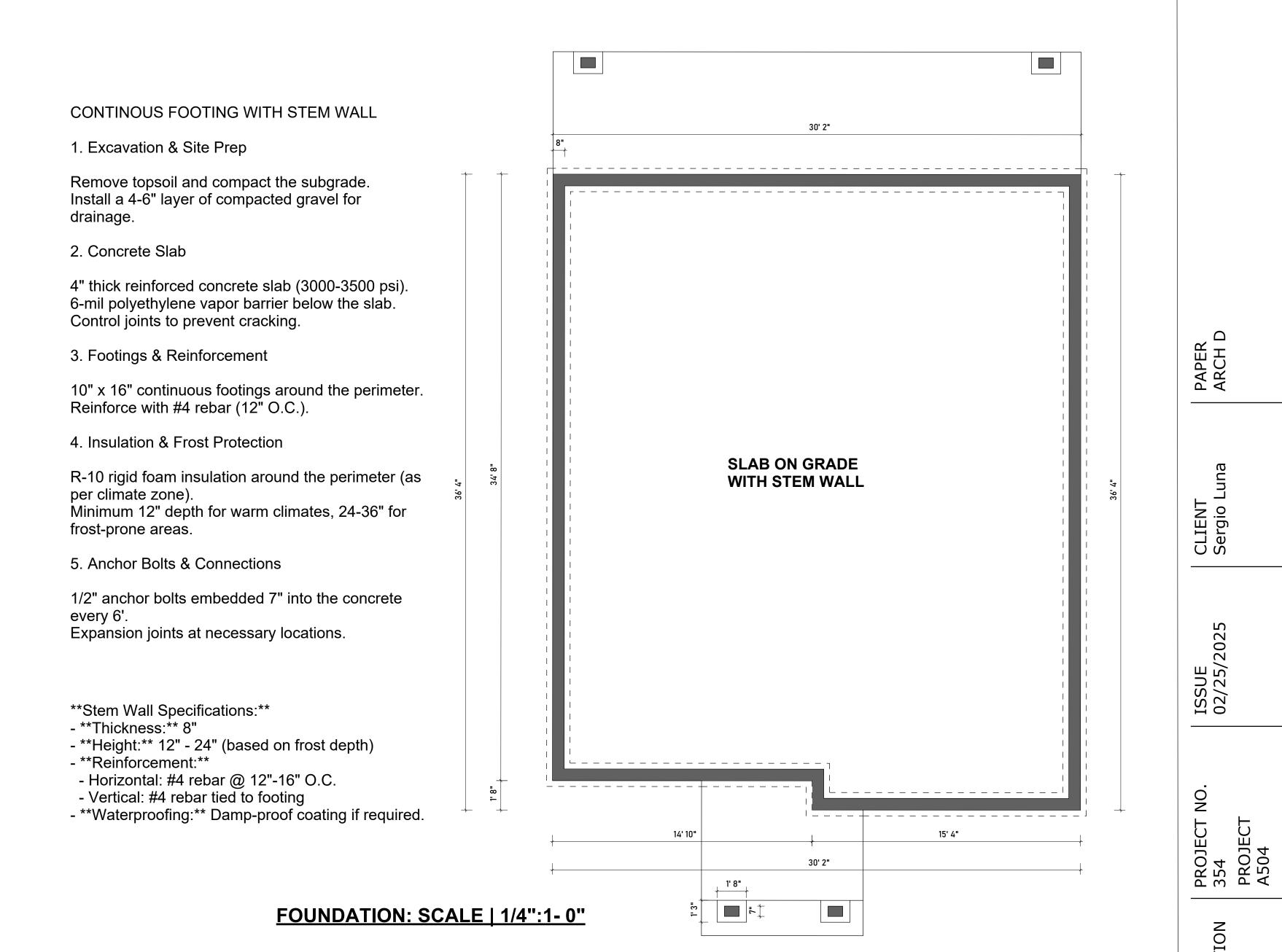
PROJECT NO. 354 PROJECT A504

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02



ROOF: SCALE | 1/4":1-0"

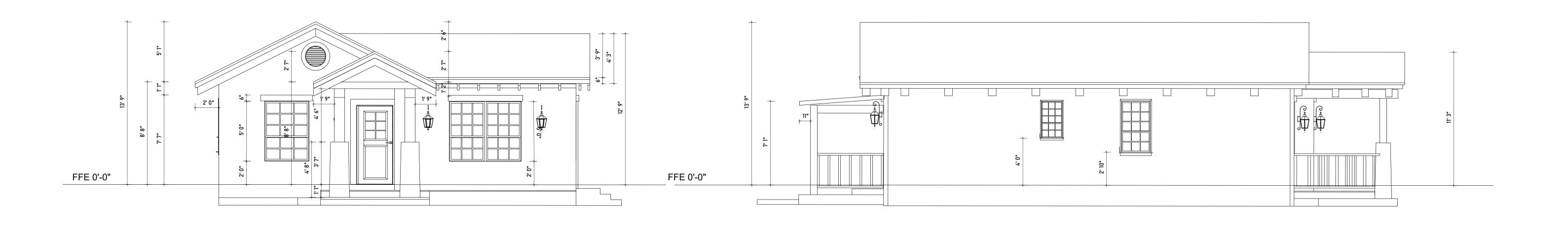


INTERIOR EXTERIOR MIN. 40 BAR DIA. ABOVE TOP OF STEM 4" CONC. SLAB -- ₱ 5 CONT. REBAR ♦—TOP OF STEM-\$ FOOTINGS: ALL BEARING FOOTINGS SHALL BEAR & 18" (MIN) BELOW TOP OF UNDISTURBED SOIL OF TOP OF ENGINEER-CERTIFIED COMPACTED SOIL EXTERIOR WALL FOOTING - CONCRETE STEM SCALE: NTS

03

a

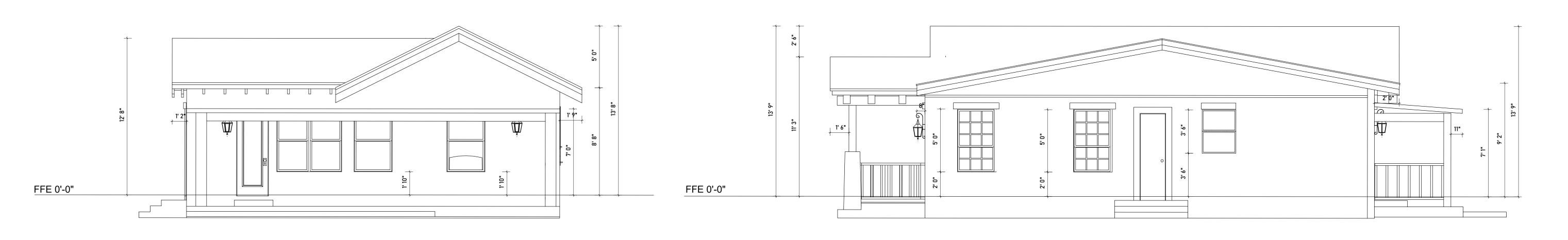
CLI Ser



FRONT VIEW: SCALE | 1/4":1-0"

Please refer to the provided 3D exterior model for accurate representation of exterior finishes. All materials selected should be readily available in the local market and compatible with the overall design aesthetic.

LEFT VIEW: SCALE | 1/4":1-0"



REAR VIEW: SCALE | 1/4":1- 0" RIGHT VIEW: SCALE | 1/4":1- 0"

BUILDING CODE AND STANDARDS **GENERAL NOTES WOOD FRAMING NOTES ENGINEERED WOOD TRUSSES** ALL DIMENSIONAL LUMBER SHALL BE DF#2 GRADE OR BETTER. SAWN LUMBER SHALL BE IDENTIFIED CONTRACTOR TO VERIFY ALL DIMENSIONS, SPANS, AND CONDITIONS WITH ARCHITECTURAL 1. ENGINEERED WOOD TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS: CALIFORNIA BUILDING CODE (CBC), 2022 EDITION DRAWINGS. IF ANY OMISSIONS, MISTAKES, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE BY THE GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED ROOF TRUSS TOP CHORD: 20 PSF DL (INCLUDING TRUSS WT), 20 PSF LL THE MINIMUM DESIGN LOAD FOR BUILDING AND OTHER STRUCTURES, ASCE 7-16 CONSTRUCTION DRAWINGS, THE ENGINEER SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20 OR EQUIVALENT. ROOF TRUSS BOTTOM CHORD: 5PSF DL, 10 PSF LL (NOT CONCURRENT W/ TOP CHORD LL) AMERICAN CONCRETE INSTITUTE, ACI THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO ALL SHEATHING TO BE APA RATED SHEATHING EXPOSURE 1 AND SHALL CONFORM TO THE FLOOR TRUSS TOP CHORD: 10 PSF DL (INCLUDING TRUSS WEIGHT), 40PSF LL NATIONAL DESIGN SPECIFICATION (NDS) ASD EDITION PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY REQUIREMENTS FOR THEIR TYPE IN DOC PS1 OR PS2. ALL EXTERIOR WALL ARE REQUIRED TO BE FLOOR TRUSS BOTTOM CHORD: 5 PSF DL, 10 PSF LL (NOT CONCURRENT W* TOP CHORD LL) ALLOWABLE STRESS DESIGN, NINTH ED. (AISC) FOR STEEL STRUCTURE DESIGN SHEATHED. ALL SHEATHING SHALL HAVE SPAN RATINGS ACCORDING TO THE FOLLOWING: RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH A FAILURE. *WIND AND SEISMIC LOADS SHALL CONFORM TO ASCE 7-05 AND LOCAL BUILDING DEPT. * IF DISCREPANCIES ARE FOUND, THE MORE STRINGENT SPECIFICATION SHALL BE FOLLOWED. FLOOR W/ 12" JOIST/TRUSS SPACING... TRUSS MAXIMUM DEFLECTION SHALL NOT EXCEED L/240 FOR TOTAL LOAD OR L/360 FOR LIVE LOAD. CONTRACTOR RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL MEMBERS, WALLS, AND FLOOR W/ 16" JOIST/TRUSS SPACING... LUMBER GRADE FOR ENGINEERED WOOD TRUSSES SHALL BE DF #2 OR BETTER. NON-STRUCTURAL ITEMS DURING CONSTRUCTION FLOOR W/ 24" JOIST/TRUSS SPACING. TRUSS TOP CHORDS SHALL BE 2X4 MINIMUM. TRUSS WEBS SHALL BE 2X4 MINIMUM. REINFORCED CONCRETE NOTES ROOF W/ 12" JOIST/TRUSS SPACING. THE ENGINEER AND HIS CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND 5. MAXIMUM LOAD DURATION FACTOR SHALL NOT BE GREATER THAN 1.15. ..12/0 ROOF W/ 24" JOIST/TRUSS SPACING. COMPLETENESS OF THE WORK HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY OMISSIONS, MAXIMUM PLATE BEARING STRESS FC` = 625 PSI. IF BEARING STRESS ON THE TOP PLATE EXCEEDS 1. MINIMUM CONCRETE MIX REQUIREMENTS: ROOF W/ 48" JOIST/TRUSS SPACING MISTAKES, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE WORK PRODUCT, THE ENGINEER ..48/24 625 PSI, THE TRUSS DESIGN SHALL INCLUDE ALL OF THE REQUIRED BEARING IMPROVEMENTS. CONCRETE COMPRESSIVE STRENGTH. fc: SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER 6. DESIGN AND CONSTRUCTION OF ALL ENGINEERED WOOD TRUSSES SHALL CONFORM TO THE WALL W/ 12" JOIST/TRUSS SPACING.. .16/0 MAXIMUM WATER TO CEMENT RATIO: STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH WALL W/ 16" JOIST/TRUSS SPACING.. CURRENT EDITION OF THE CBC. THE DESIGN MANUFACTURE AND QUALITY ASSURANCE SHALL CEMENTITIOUS MATERIAL: TYPE V + POZZOLAN OR SLAG CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES ALL LUMBER, TIMBER, PLYWOOD, REQUIRED TO BE TREATED SHALL CONFORM TO THE 3. STRUCTURAL CONCRETE SHALL REACH A MINIMUM 3-DAY COMPRESSIVE STRENTH OF 1500 PSI REQUIREMENTS OF THE APPLICABLE AWPA STANDARD U1 AND M4 FOR THE SPECIES, PRODUCT, ALL TRUSSES SHALL BE DESIGNED FOR ALL LOADING FROM MECHANICAL, ELECTRICAL, FIRE OF SUCH A FAILURE. AND SHALL REACH THE SPECIFIED COMPRESSIVE STRENGTH IN 28 DAYS. CONCRETE PRESERVATIVE AND END USE. PRESERVATIVE TREATED WOOD SHALL BEAR THE QUALITY MARK OF SPRINKLER, HVAC AND OTHER SUPER IMPOSED LOADS, TRUSS DESIGNER SHALL CORRELATE LOAD MANY PORTIONS OF THESE DRAWINGS, NOTES AND SPECIFICATIONS ARE THE RESULT OF DEMANDS COMPRESSIVE TESTS SHALL CONFIRM TO ASTM C 150 "TEST METHOD SAMPLING AND TESTING BY VARIOUS APPROVING AGENCIES THAT MUST BE PERFORMED AS PART OF THIS WORK. ANY AN INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING, AND INSPECTION LOCATIONS WITH MECHANICAL, PLUMBING AND ELECTRICAL PLANS. CONCRETE MASONRY UNITS AND RELATED UNITS". CEMENTITIOUS MATERIAL SHALL CONFORM ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT OF THE ENGINEER SHALL BECOME THE OVER THE QUALITY OF THE PRESERVATIVE TREATED WOOD. 8. ALL TRUSS SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER OF TO ASTM C 150 "SPECIFICATION FOR PORTLAND CEMENT" RESPONSIBILITY NOT OF THE ENGINEER, BUT OF THE PARTIES RESPONSIBLE FOR MAKING THE FOLLOWING SHALL BE PRESERVATIVE TREATED LUMBER OF REDWOOD: RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SIGNED THE CONCRETE SHALL BE PROPORTIONED AND PRODUCED TO HAVE A SLUMP OF 4 INCHES OR THE CHANGE AND TAKING ACTION TO DO SO. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND A. ALL WALL SILL PLATES ON A CONCRETE SLAB THAT ARE IN DIRECT CONTACT WITH EARTH. AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THIS PROJECT IS LESS. A TOLERANCE OF 1 INCH ABOVE THIS AMOUNT SHALL BE PERMITTED FOR INDIVIDUAL CONSENT OF THE ENGINEER OR THE CONTRADICTION TO THE ENGINEER'S WORK PRODUCT, THE B. WOOD FRAMING MEMBERS THAT REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS BATCHES PROVIDED THE AVERAGE FOR ALL BATCHES DOES NOT EXCEED 4 INCHES. THE SLUMP INTENT AND/OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER, THAN 8" FROM EXPOSED EARTH. 9. TRUSS ERECTION SHALL BE ACCORDING TO TRUSS MANUFACTURERS RECOMMENDATIONS. SHALL BE DETERMINED BY "STANDARD TESTING METHOD FOR SLUMP OF PORTLAND CEMENT BUT OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION. THE ENGINEER SHOULD BE C. WOOD FRAMING MEMBERS AND FURRING STRIPS ATTACHED DIRECTLY TO THE INTERIOR OF 10. TRUSS DESIGNER SHALL DESIGN ENTIRE TRUSS SYSTEM, INCLUDING ALL TEMPORARY BRACING, CONCRETE" (ASTM C 143). CONTACTED IN MATTERS OF ANY AND ALL CHANGES TO THE DRAWINGS AND SPECIFICATIONS EXTERIOR MASONRY OR CONCRETE WALLS BELLOW GRADE. PERMANENT LATERAL BRACING, AND TRUSS TO TRUSS CONNECTIONS THAT ARE REQUIRED. 5. WATER USED IN MIXING CONCRETE SHALL BE CLEAN FROM INJURIOUS AMOUNTS OF OILS, ACIDS, HEREIN WITHOUT EXCEPTION. D. WOOD JOISTS THAT ARE CLOSER THAN 18", OR WOOD GIRDERS THAT ARE CLOSER THAN 12" TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR ALKALIS, SALTS, ORGANIC MATERIALS, OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND APPROVAL OF THE NON STRUCTURAL FRAMING REQUIREMENTS ARE NOT SPECIFIED ON STRUCTURAL DRAWINGS. FROM EXPOSED EARTH IN CRAWL SPACES OR UNEXCAVATED AREA'S LOCATED WITHIN REINFORCEMENT, NONPOTABLE WATER SHALL NOT BE USED. TRUSS MANUFACTURER AND THE ENGINEER OF RECORD. SEE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL FRAMING REQUIRED. THE PERIMETER OF THE BUILDING FOUNDATION. 6. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C330 "STANDARD SPECIFICATIONS FOR PREFABRICATED I-JOISTS SHALL CONFORM TO ASTM D 5055 CONTRACTOR SHALL ASSURE THAT ALL PRODUCTS AND HARDWARE ARE USED PER CONCRETE AGGREGATES". THE NORMAL MAXIMUM SIZE OF COARSE AGGREGATES SHALL NOT BE MANUFACTURER'S RECOMMENDATIONS. 6. LAMINATED VENEER LUMBER (LVL) SHALL BE 1-3/4" WIDE 1.9E WITH AN ALLOWABLE BENDING STRESS LARGER THAN: 1/5 THE DISTANCE BETWEEN THE SIDES OF FORMS. 1/3 THE SLAB DEPTH, CONTRACTOR SHALL PROVIDE NAME OF AN APPROVED FABRICATOR OR ICC EVALUATION REPORT OF 2,600 PSI AND AN ALLOWABLE SHEAR STRESS OF 285 PSI. LAMINATED STRAND LUMBER (LSL) DEFERRED SUBMITTALS OR 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR WIRES, FOR STEEL ROOF JOISTS, STEEL FLOOR JOISTS, AND STEEL DECKING TO BUILDING OFFICIAL FOR SHALL BE 1-3/4" WIDE 1.55E WITH AN ALLOWABLE BENDING STRESS OF 2,325 PSI AND AN ALLOWABLE BUNDLES OF BARS, INDIVIDUAL TENDONS, OR DUCTS. APPROVAL PRIOR TO CONSTRUCTION. 7. DEFORMED CONCRETE REINFORCING SHALL BE GRADE 60 REINFORCING STEEL CONFORMING TO CONTRACTOR SHALL PROVIDE NAME OF AN APPROVED FABRICATOR FOR ALL FABRICATED STRUCTURAL GLUE LAMINATED TIMBER SHALL BE 24F-V4 UNLESS NOTED OTHERWISE AND FOR ALL DEFERRED SUBMITTAL ITEMS, CONTRACTOR SHALL SUBMIT CONSTRUCTION ASTM A 615 "STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON-STEEL BARS FOR STRUCTURAL COMPONENTS TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO CONSTRUCTION MANUFACTURED AND IDENTIFIED AS REQUIRED IN AITC A190.1 AND ASTM D 3737. DETAILS AND DRAWINGS PRIOR TO CONSTRUCTION WITH CALCULATIONS STAMPED BY A CONCRETE REINFORCEMENT. CONTRACTOR SHALL PROVIDE NAME OF AN APPROVED SPECIAL INSPECTION AGENCY AND PROVIDE SOLID BLOCKING FOR ALL VERTICAL LOAD PATHS TO FOUNDATION. PROVIDE 1 TRIMMER PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS BEING 8. BAR MATS FOR CONCRETE REINFORCING SHALL CONFORM TO ASTM A 184 "STANDARD ON EACH SIDE OF ALL OPENINGS LESS THAN 4'-0" WIDE, PROVIDE 2 TRIMMERS MIN, ON EACH SIDE QUALIFICATION OF INDIVIDUAL TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO CONSTRUCTION. SPECIFICATION FOR WELDED DEFORMED STEEL BAR MATS FOR CONCRETE REINFORCEMENT. OF ALL OPENINGS 4'-0" WIDE AND GREATER. A MINIMUM 2 STUDS SHALL BE PROVIDED AT ALL 2. ALL DEFERRED SUBMITTAL ITEMS SHALL BE APPROVED BY THE ENGINEER OF RECORD AND REINFORCING BARS USED IN BAR MATS SHALL CONFORM TO ASTM A 515 OR ASTM A 706. VERTICAL EDGES OF SHEAR WALLS, GIRDER TRUSSES, AND BEAMS UNLESS NOTED OTHERWISE. SUBMITTED TO THE CITY BUILDING DEPARTMENT PRIOR TO CONSTRUCTION. WELDED PLAIN WIRE FOR CONCRETE REINFORCEMENT SHALL NOT BE SMALLER THEN D4 BUILT UP BEAMS SHALL BE FASTENED ACCORDING TO THE FOLLOWING: THE FOLLOWING ITEMS SHALL BE CONSIDERED AS DEFERRED SUBMITTAL ITEMS: AND SHALL CONFORM TO ASTM A 496 "STANDARD SPECIFICATION FOR STEEL WIRE, DEFORMED (2) & (3) PLY MEMBERS WITH PLIES UP TO 1-3/4" THICK: A. ENGINEERED WOOD ROOF TRUSSES FOR CONCRETE REINFORCEMENT". WELDED DEFORMED WIRE FOR CONCRETE REINFORCEMENT STRUCTURAL CRITERIA 12" DEEP BEAMS: (2) ROWS OF 16D COMMON NAILS AT 12" O.C. B. ENGINEERED WOOD FLOOR TRUSSES SHALL CONFORM TO ASTM A 497 "STANDARD SPECIFICATION FOR STEEL WELDED WIRE, 14" AND DEEPER: (3) ROWS OF 16D COMMON NAILS AT 12" O.C. DEFORMED, FOR CONCRETE REINFORCEMENT". *NAILED CONNECTIONS REQUIRE AN ADDITIONAL ROW OF NAILS WHEN NAIL SIZE IS SMALLER **ANALYSIS ITEMS** WELDED WIRE FOR CONCRETE REINFORCEMENT SHALL NOT BE SMALLER THAN D4 AND SHALL THAN SPECIFIED ABOVE. CONFORM TO ASTM A 496 "STANDARD SPECIFICATION FOR STEEL WIRE, DEFORMED, FOR (4) PLY MEMBERS WITH PLIES UP TO 1-3/4" THICK AND (2) PLY MEMBERS WITH PLIES 3-1/2" THICK: CONCRETE REINFORCEMENT". 12" DEEP BEAMS: (2) STAGGERED ROWS OF 1/2" A307 BOLTS W/ WASHERS @ 16" O.C. ROOF LIVE: 11. NO ADMIXTURES, OTHER THAN AIR-ENTRAINING ADMIXTURE CONFORMING TO "STANDARD 14" AND DEEPER: (3) STAGGERED ROWS OF 1/2" A307 BOLTS W/ WASHERS @ 16" O.C. ROOF DEAD: 15 PSF FOR SHEATHING AND 23 PSF FOR TILES. SPECIFICATIONS FOR AIR ENTRAINING ADMIXTURES FOR CONCRETE" (ASTM C 260) MAY BE USED 10. OPENINGS SHALL BE FRAMED WITH THE MINIMUM KING STUDS AS FOLLOWS: FLOOR LIVE: 40 PSF [LIVING] WITHOUT THE WRITTEN APPROVAL FROM THE ENGINEER, CALCIUM CHLORIDE AND CONCRETE OPENINGS UP TO 2'-0": 1 KING STUD AT EACH SIDE OF OPENING DECK LIVE: ADMIXTURES CONTAINING CHLORIDE SALTS ARE NOT PERMITTED. OPENINGS UP TO 4'-0": 2 KING STUDS AT EACH SIDE OF OPENING LAP ALL REINFORCING BARS ACCORDING TO THE FOLLOWING LAP SPLICE SCHEDULE, WHERE OPENINGS UP TO 8'-0": 3 KING STUDS AT EACH SIDE OF OPENING N/A PSF [SUSPENDED SLAB] BEAM REINFORCING IS REQUIRED TO BE SPLICED, SPLICING SHALL ONLY TAKE PLACE IN OPENINGS UP TO 12'-0": 4 KING STUD AT EACH SIDE OF OPENING FLOOR/DECK DEAD: 15 PSF [WOOD FLOOR] COMPRESSION REGIONS, I.E. BOTTOM REINFORCING SPLICES ALLOWED OVER SUPPORTS AND OPENINGS UP TO 16'-0": 5 KING STUD AT EACH SIDE OF OPENING N/A PSF [SUSPENDED SLAB] TOP REINFORCING SLICES ALLOWED IN THE BEAM MIDSPANS. WHERE COLUMN VERTICAL REFER TO PLANS FOR KING STUD REQUIREMENTS ON OPENINGS GREATER THAN 23'-0" **CEILING LIVE:** REINFORCING IS REQUIRED TO BE SPLICED, SPLICING WILL BE PERMITTED ONLY AT FLOOR LEVELS 11. SIMPSON H1 IS REQUIRED AT EACH END EACH ROOF TRUSS UNLESS NOTED OTHERWISE. CEILING DEAD: 10 PSF OR AREAS OF LATERAL SUPPORT. NAIL TJI'S TO TOP PLATE W/ (1) 8D BOX NAIL EACH SIDE. DRIVE NAILS AT AN ANGLE AT LEAST 1-1/2" FROM END OF EACH FLOOR JOIST. DEFLECTION CRITERIA 12. PROVIDE 1 1/8" WIDE TIMBER STRAND OR EQUIVALENT FOR ALL RIM JOISTS ROOF MEMBERS 13. BEARING, SHEAR AND EXTERIOR WALL STUDS SHALL BE CAPPED WITH DOUBLE TOP PLATES L/360 $\Delta(LIVE)$ INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER Δ (TOTAL LOAD) L/240 PARTITITIONS. END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48". FLOOR MEMBERS LAP LENGTH SCHEDULE AND CONCRETE COVERING 14. DOUBLE TOP PLATES SHALL BE NAILED WITH 16D NAILS @ 16" O.C. A MINIMUM OF 8-16D NAILS SHALL $\Delta(LIVE)$ L/360 BE PLACED EACH SIDE OF TOP PLATE SPLICES UNLESS NOTED OTHERWISE. Δ(TOTAL LOAD) L/240 15. NON BEARING INTERIOR PARTITION WALLS SHALL BE FRAMED A MINIMUM OF 1/2" SHORTER THAN WALLS BEARING WALLS TO ACCOMMODATE TRUSS DEFLECTION AND PRESERVE THE INTENDED LOAD PATH. ALL REINFORCING BAR WILL BE GRADE 60 PER A.S.T.M A615 17. JOISTS WITH CANTILEVERS LARGER THAN 1'-6" AND WITHOUT A DIRECT APPLIED CEILING SHALL HAVE CONTINUOUS BLOCKING INSTALLED AT THE 1/3 POINTS OF THE BACK SPAN UNLESS SEISMIC DESIGN PARAMETERS REINFORCED CONCRETE LAP SPLICE SCHEDULE SEISMIC DESIGN CATEGORY: F'c= 3000 PSI AT 28 DAYS REINFORCEMENT LENGTH (INCHES) 18. FLOOR JOISTS SPANNING 16'-0" OR MORE WITHOUT A DIRECT APPLIED CEILING SHALL HAVE ROWS SITE CLASS: OF CONTINUOUS BLOCKING INSTALLED AT A MAXIMUM SPACING OF 8'-0" O.C. REINFORCEMENT | #3 | #4 | #5 | #6 | #7 | #8 OCCUPANCY CATEGORY: SLICE CLASS LOCATION BARS BARS BARS BARS BARS BARS 1.00 19. PARTITION WALLS THAT ARE PARALLEL WITH FLOOR JOISTS SHALL BE SUPPORTED WITH DOUBLE IMPORTANCE FACTOR, Ig: RESPONSE MOD. FACTOR, R 6.5 JOISTS OR CROSS BLOCKING BETWEEN THE TWO CLOSEST ADJACENT JOISTS UNLESS NOTED 24 | 32 | 39 | 47 | 69 | 78 OTHERWISE ON THE CONSTRUCTION DRAWINGS. OVER STREGTH FACTOR, Ω : BOTTOM 20. ALL METAL HARDWARE TO BE SIMPSON STRONG TIE OR EQUAL AND INSTALLED ACCORDING TO DEFLECTION AMPLIFICATION FACTOR, Cd: MANUFACTURERS REQUIREMENTS. BASIC SIESMIC-FORCE-RESISTING SYSTEM(S): LIGHT FRAMED WALLS SHEATHED W/ WOOD TOP 31 | 41 | 51 | 61 | 89 | 102 21. HOLES FOR BOLTS SHALL BE DRILLED AT THE SAME NOMINAL DIAMETER OF THE BOLT +1/16". STRUCTURAL PANELS BOTTOM 24 | 32 | 39 | 47 | 22. HOLES FOR LAG SCREWS AND WOOD SCREWS SHALL BE DRILLED THE SAME NOMINAL LENGTH AND DESIGN BASE SHEAR, V: DIAMETER OF THE SHANK. LAG SCREWS AND WOOD SCREWS SHALL NOT BE DRIVEN INTO PLACE. SEISMIC DESIGN COEFFICIENT, Cs: 0.10 ANALYSIS PROCEDURE USED: 23. NAIL SHANK DIAMETER AND LENGTHS SHALL CONFORM TO THE FOLLOWING: EQUIVALENT LATERAL FORCE0.131" **Φ**X2.50" MINIMUM CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE AS FOLLOWS: ...0.148" ФХЗ.00" 0.039 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL.......3" ..0.148" ФX3.25" 1.6 12D. CONCRETE EXPOSED TO SOIL OR WEATHER: ..0.162" **Ф**X3.50" 2.4 #5 BARS, W31 OR D31 WIRES, AND SMALLER... ...0.192" **Ф**X4.00" 0.062 #6 BARS AND LARGER0.207" **Ф**X4.50" 0.061 30D. S_{DS}: 1.3 40D... ...0.225" ФX5.00 CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL: WHEN APPLICABLE STAPLES MAY BE SUBSTITUTED FOR NAILS TO FASTEN STRUCTURAL SHEATHING SLABS, WALLS AND JOISTS: TO SUPPORTING MEMBERS PROVIDED THAT THE STAPLES HAVE A CROWN WIDTH OF 7/16" AND SHALL WIND DESIGN PARAMETERS #11 BARS AND SMALLER 110 MPH BE INSTALLED WITH THEIR CROWNS PARALLEL TO THE LONG DIMENSION OF THE FRAMING MEMBERS. BASIC WIND SPEED: #14 BARS AND LARGER. SUBSTITUTE STAPLES FOR NAILS ACCORDING TO THE FOLLOWING: **EXPOSURE**: OCCUPANCY CATEGORY: 8D COMMON NAILS... ..14 GAUGE 1 1/2" STAPLES BEAMS AND COLUMNS. 10D COMMON NAILS... ...13 GAUGE 1 1/2" STAPLES COMPONENTS AND CLADDING DESIGN WIND LOADS TO BE PER ASCE 7-16 8D COMMON NAILS AT 6" O.C.. .16 GAUGE STAPLES AT 4" O.C. 8D COMMON NAILS AT 4" O.C. .16 GAUGE STAPLES AT 2 1/2" O.C 8D COMMON NAILS AT 12" O.C.. ...16 GAUGE STAPLES AT 7 3/4" O.C. FOUNDATION NOTES 25. FASTENERS INSTALLED INTO PRESERVATIVE TREATED WOOD AND FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH TO FOUNDATION INSPECTION. ASTM A153. CAST IN AND POST INSTALLED BOLTS SHALL BE PERMITTED TO BE OF MECHANICALLY SEE ARCHITECTURAL PLANS FOR HORIZONTAL DIMENSIONS DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, AND ELEVATIONS. CLASS 55 MINIMUM. WASHERS AND OTHER HARDWARE IN CONTACT WITH FASTENERS SHALL BE OF THE CONCRETE CONTRACTOR SHALL COORDINATE WITH THE SAME ANTI-CORROSIVE TREATMENT AS THE FASTENERS THEY ARE IN CONTACT WITH. FRAMING CONTRACTOR ON PLACEMENT OF ANCHOR BOLTS 26. SHEATHING FASTENERS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SHEATHING AND HARDWARE PROVIDE SLAB JOINT AT 12'-0" O.C. MAX. 27. SILL PLATES OF EXTERIOR WALLS AND INTERIOR BEARING WALLS MUST BE ANCHORED TO THE ALLOWABLE SOIL BEARING PRESSURE, 1500. PSF BASED UPON CODE. FOUNDATION WITH A MINIMUM OF 1/2"X10" ANCHOR BOLTS @ 36" O.C. THERE SHALL BE A MINIMUM VERIFY ALL EXISTING CONDITIONS & NOTIFY THE ENGINEER OF OF TWO BOLTS PER PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 4" FROM EACH END OF EACH PIECE. A PROPERLY SIZED NUT AND STANDARD CUT WASHER SHALL BE RECORD WITH ANY DISCREPANCIES. TIGHTENED ON EACH BOLT TO THE PLATE. CONSTRUCTION SHALL COMPLY WITH 2022 EDITION OF 28. SHEAR WALL SILL PLATE ANCHOR BOLTS SHALL INCLUDE 0.229"X3"X3" STEEL PLATE WASHERS CALIFORNIA BUILDING AND OTHER RELATED CODES. BETWEEN THE SILL PLATE AND NUT. 0.229"X3"X3" STEEL PLATE WASHERS ARE PERMITTED TO HAVE A STRUCTURAL DESIGN AND DETAILS SHALL COMPLY TO CBC DIAGONALLY SLOTTED HOLE WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A (2022 EDITION). SLOT LENGTH NOT TO EXCEED 1-3/4" IF A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SHEATHED SIDE OF THE SHEAR WALL. SHEAR WALL SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH A MINIMUM OF 2 ANCHOR BOLTS PER PIECE WITH ONE BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 4" FROM EACH END OF EACH PIECE. SITE DRAINAGE RECOMMENDATIONS 29. CAST IN ANCHOR BOLTS FOR INTERIOR BEARING AND SHEAR WALLS MAY BE REPLACED WITH SIMPSON STRONG-BOLTS, SIMPSON TITEN HD, OR HILIT KWIK BOLT TY ANCHORS OF THE SAME DIAMETER AND DRAINAGE OF THE SURFACE WATER AWAY FROM THE FOUNDATION SHOULD BE MAINTAINED FOR THE LIFE OF 4-1/2" MINIMUM EMBEDMENT. INTERIOR SHEAR WALL ANCHOR BOLTS MAY ALSO BE EPOXIED THE STRUCTURE. IN NO CASE SHOULD WATER BE ALLOWED TO POND NEXT TO THE STRUCTURE FOUNDATION. INTO CONCRETE WITH SIMPSON SET-XP HILTI HIT-RE 500-SD EPOXY AND A MINIMUM 4-1/2" EMBEDMENT. DESERT TYPE OR ZEROSPACE LANDSCAPING WHICH REQUIRES MINIMAL WATER IS RECOMMENDED. RAIN GUTTERS SHOULD BE INSTALLED AND ROOF DOWNSPOUTS SHOULD DISCHARGE RAIN WATER AWAY FROM THE FOUNDATION TO REDUCE THE POTENTIAL OF WATER INFILTRATION INTO THE SUB GRADE. WHERE POSSIBLE WE RECOMMEND THAT ALL ROOF DOWNSPOUTS BE TIED TOGETHER WITH A SUB GRADE COLLECTION SYSTEM THAT DISCHARGES RAIN WATER INTO THE CURB AND GUTTER OR DIRECTLY INTO THE STORM DRAIN. ALL DRAINAGE RECOMMENDATIONS IN THE SOILS REPORT MUST BE STRICTLY FOLLOWED WITHOUT VARIATION. Signature of the applicant Designed by Project Architect Designed For

Main Consultants

Drawn. Job No Scale

Date

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GENERAL NOTES