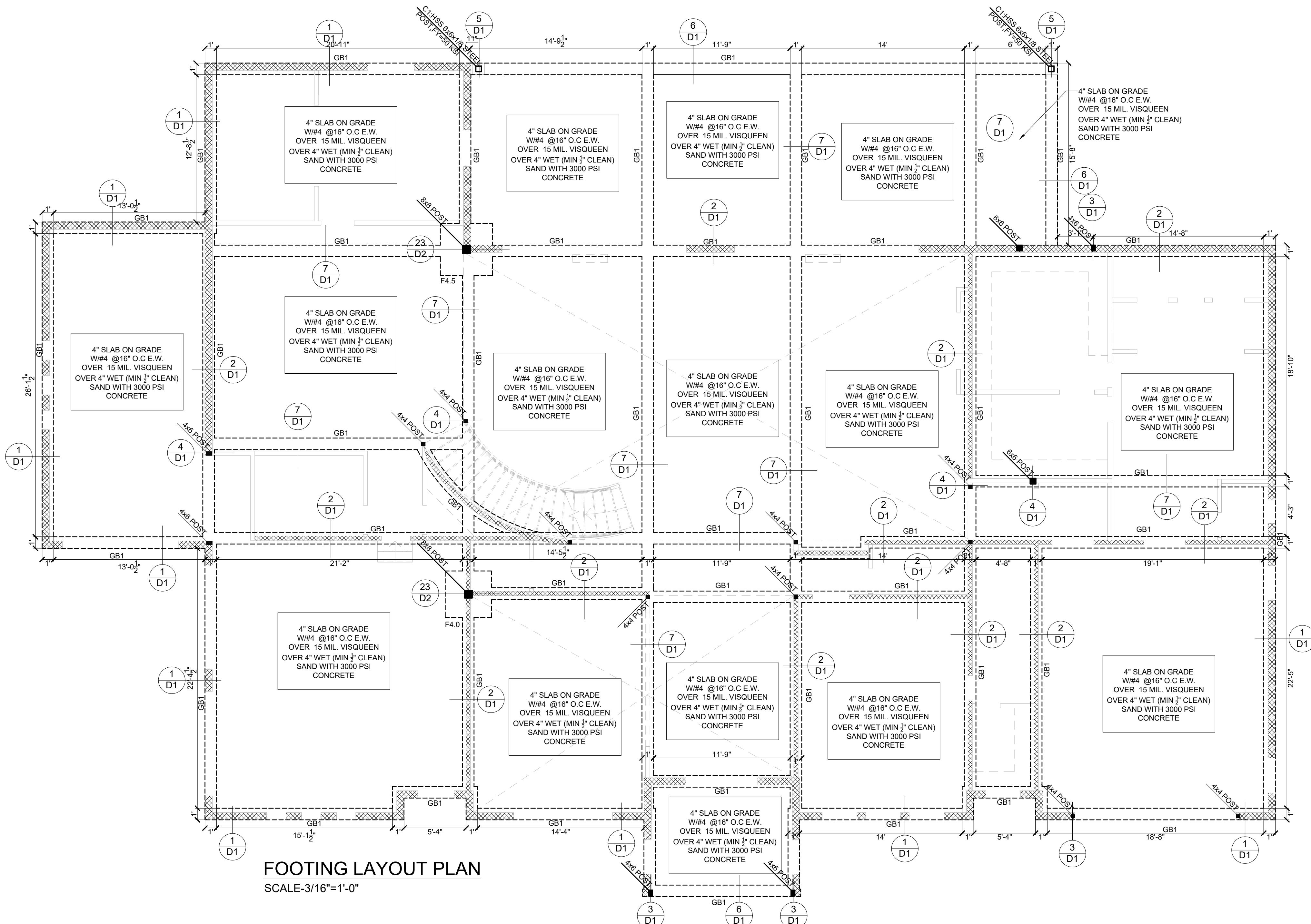


BUILDING CODE AND STANDARDS		GENERAL NOTES		WOOD FRAMING NOTES		ENGINEERED WOOD TRUSSES																																																																													
<ol style="list-style-type: none"> INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION THE MINIMUM DESIGN LOAD FOR BUILDING AND OTHER STRUCTURES, ASCE 7-16 AMERICAN CONCRETE INSTITUTE, ACI NATIONAL DESIGN SPECIFICATION (NDS) ASD EDITION ALLOWABLE STRESS DESIGN, NINTH ED. (AISC) FOR STEEL STRUCTURE DESIGN 		<ol style="list-style-type: none"> CONTRACTOR TO VERIFY ALL DIMENSIONS, SPANS, AND CONDITIONS WITH ARCHITECTURAL DRAWINGS. IF ANY OMISSIONS, MISTAKES, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE CONSTRUCTION DRAWINGS, THE ENGINEER SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH A FAILURE. IF DISCREPANCIES ARE FOUND, THE MORE STRINGENT SPECIFICATION SHALL BE FOLLOWED. CONTRACTOR RESPONSIBLE FOR ADEQUATE BRACING OF STRUCTURAL MEMBERS, WALLS, AND NON-STRUCTURAL ITEMS DURING CONSTRUCTION. THE ENGINEER AND HIS CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE WORK HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY OMISSIONS, MISTAKES, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE WORK PRODUCT, THE ENGINEER SHALL BE PROMPTLY NOTIFIED SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH A FAILURE. MANY PORTIONS OF THESE DRAWINGS, NOTES AND SPECIFICATIONS ARE THE RESULT OF DEMANDS BY VARIOUS APPROVING AGENCIES THAT MUST BE PERFORMED AS PART OF THIS WORK. ANY ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT OF THE ENGINEER SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER, BUT OF THE PARTIES RESPONSIBLE FOR MAKING THE CHANGE AND TAKING ACTION TO DO SO. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT OF THE ENGINEER OR THE CONTRACTION TO THE ENGINEER'S WORK PRODUCT, THE INTENT AND/OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER, BUT OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION. THE ENGINEER SHOULD BE CONTACTED IN MATTER OF ANY AND ALL CHANGES TO THE DRAWINGS AND SPECIFICATIONS HEREIN DURING CONSTRUCTION. NON-STRUCTURAL FRAMING REQUIREMENTS ARE NOT SPECIFIED ON STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL FRAMING REQUIRED. CONTRACTOR SHALL ASSURE THAT ALL PRODUCTS AND HARDWARE ARE USED PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE NAME OF AN APPROVED FABRICATOR OR ICC EVALUATION REPORT FOR STEEL ROOF JOISTS, STEEL FLOOR JOISTS, AND STEEL DECKING TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE NAME OF AN APPROVED FABRICATOR FOR ALL FABRICATED STRUCTURAL COMPONENTS TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE NAME OF AN APPROVED SPECIAL INSPECTION AGENCY AND QUALIFICATION OF INDIVIDUAL TO BUILDING OFFICIAL FOR APPROVAL PRIOR TO CONSTRUCTION. 		<ol style="list-style-type: none"> ALL DIMENSIONAL LUMBER SHALL BE DF#2 GRADE OR BETTER. SAWN LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK OF A LUMBER GRADING OR INSPECTION AGENCY THAT HAS BEEN APPROVED BY AN ACCREDITATION BODY THAT COMPLIES WITH DOC PS 20 OR EQUIVALENT. ALL SHEATHING TO BE APA RATED SHEATHING EXPOSURE 1 AND SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN DOC PS1 OR PS2. ALL EXTERIOR WALL ARE REQUIRED TO BE SHEATHED. ALL SHEATHING SHALL HAVE SPAN RATINGS ACCORDING TO THE FOLLOWING: <table> <tr><td>FLOOR W/ 12" JOIST/TRUSS SPACING</td><td>24/12</td></tr> <tr><td>FLOOR W/ 16" JOIST/TRUSS SPACING</td><td>32/16</td></tr> <tr><td>FLOOR W/ 24" JOIST/TRUSS SPACING</td><td>48/24</td></tr> <tr><td>ROOF W/ 12" JOIST/TRUSS SPACING</td><td>12/0</td></tr> <tr><td>ROOF W/ 24" JOIST/TRUSS SPACING</td><td>24/0</td></tr> <tr><td>ROOF W/ 48" JOIST/TRUSS SPACING</td><td>48/24</td></tr> <tr><td>WALL W/ 12" JOIST/TRUSS SPACING</td><td>24/0</td></tr> <tr><td>WALL W/ 16" JOIST/TRUSS SPACING</td><td>32/16</td></tr> </table> <ol style="list-style-type: none"> ALL LUMBER, TIMBER, PLYWOOD, REQUIRED TO BE TREATED SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE AWPA STANDARD U1 AND M4 FOR THE SPECIES, PRODUCT, PRESERVATIVE AND END USE. PRESERVATIVE TREATED WOOD SHALL BEAR THE QUALITY MARK OF AN INSPECTION AGENCY THAT MAINTAINS CONTINUING SUPERVISION, TESTING, AND INSPECTION OVER THE QUALITY OF THE PRESERVATIVE TREATED WOOD. THE FOLLOWING SHALL BE PRESERVATIVE TREATED LUMBER OF REDWOOD: <ol style="list-style-type: none"> ALL WALL SILL PLATES ON A CONCRETE SLAB THAT ARE IN DIRECT CONTACT WITH EARTH. WOOD FRAMING MEMBERS THAT REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8' FROM EXPOSED EARTH. WOOD FRAMING MEMBERS AND FLUSSING STRIPS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY OR CONCRETE WALLS THAT ARE 12" OR LESS FROM EXPOSED EARTH. WOOD JOISTS THAT ARE LESS THAN 12" FROM EXPOSED EARTH IN CRAWL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIMETER OF THE BUILDING FOUNDATION. PREFABRICATED I-JOISTS SHALL CONFORM TO ASTM D 5055. LAMINATED VENEER LUMBER (LVL) SHALL BE 1-3/4" WIDE 1-9/16" WITH AN ALLOWABLE BENDING STRESS OF 2,600 PSI AND AN ALLOWABLE SHEAR STRESS OF 265 PSI. LAMINATED STRAND LUMBER (LSL) SHALL BE 1-3/4" WIDE 1-5/8" WITH AN ALLOWABLE BENDING STRESS OF 2,325 PSI AND AN ALLOWABLE SHEAR STRESS OF 310 PSI. STRUCTURAL GLUE LAMINATED TIMBER SHALL BE 24F-V4 UNLESS NOTED OTHERWISE AND MANUFACTURED AND IDENTIFIED AS REQUIRED IN AITC A190.1 AND ASTM D 3737. PVIDE SOLID BLOCKING FOR ALL VERTICAL LOAD PATHS TO FOUNDATION. PROVIDE 1 TRIMMER ON EACH SIDE OF ALL OPENINGS LESS THAN 4'-0" WIDE. PROVIDE 2 TRIMMERS MIN. ON EACH SIDE OF ALL OPENINGS 4'-0" WIDE AND GREATER. A MINIMUM 2 STUDS SHALL BE PROVIDED AT ALL VERTICAL LOAD PATHS TO FOUNDATION. BUILT UP BEAMS SHALL BE FASTENED ACCORDING TO THE FOLLOWING: <ol style="list-style-type: none"> 12" DEEP BEAMS: (2) ROWS OF 16D COMMON NAILS AT 12" O.C. 14" AND DEEPER: (3) ROWS OF 16D COMMON NAILS AT 12" O.C. "NAILED CONNECTIONS REQUIRE AN ADDITIONAL ROW OF NAILS WHEN NAIL SIZE IS SMALLER THAN SPECIFIED ABOVE. PLY MEMBERS WITH PLIES UP TO 1-3/4" THICK AND (2) PLY MEMBERS WITH PLIES 3-1/2" THICK: 12" DEEP BEAMS: (2) STAGGERED ROWS OF 1/2" A307 BOLTS W/ WASHERS @ 16" O.C. 14" AND DEEPER: (3) STAGGERED ROWS OF 1/2" A307 BOLTS W/ WASHERS @ 16" O.C. OPENINGS SHALL BE FRAMED WITH THE MINIMUM KING STUDS AS FOLLOWS: OPENINGS UP TO 12": 1 KING STUD AT EACH SIDE OF OPENING OPENINGS UP TO 4'-0": 2 KING STUDS AT EACH SIDE OF OPENING OPENINGS UP TO 8'-0": 3 KING STUDS AT EACH SIDE OF OPENING OPENINGS UP TO 12'-0": 4 KING STUDS AT EACH SIDE OF OPENING OPENINGS UP TO 16'-0": 5 KING STUD AT EACH SIDE OF OPENING REFER TO PLANS FOR KING STUD REQUIREMENTS ON OPENINGS GREATER THAN 23'-0" SIMPSON H1 IS REQUIRED AT EACH END EACH ROOF TRUSS UNLESS NOTED OTHERWISE. NAIL TIJIS TO TOP PLATE W/ (1) BD BOX NAIL EACH SIDE. DRIVE NAILS AT AN ANGLE AT LEAST 1-1/2" FROM END OF EACH FLOOR JOIST. PROVIDE 1 1/8" WIDE TIMBER STRAND OR EQUIVALENT FOR ALL RIM JOISTS. BEARING, SHEAR AND EXTERIOR WALL STUDS SHALL BE CAPPED WITH DOUBLE TOP PLATES INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER PARTITIONS. END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48". DOUBLE TOP PLATES SHALL BE NAILED WITH 16D NAILS @ 16" O.C. A MINIMUM OF 8-16D NAILS SHALL BE PLACED EACH SIDE OF TOP PLATE SPLICES UNLESS NOTED OTHERWISE. NON BEARING INTERIOR PARTITION WALLS SHALL BE FRAMED A MINIMUM OF 1/2" SHORTER THAN BEARING WALLS TO ACCOMMODATE TRUSS DEFLECTION AND PRESERVE THE INTENDED LOAD PATH. JOISTS THAT SPANNING 16'-0" OR GREATER THAN 1-4" AND WITHOUT A DIRECT APPLIED CEILING SHALL HAVE CONTINUOUS BLOCKING INSTALLED AT THE 1/3 POINTS OF THE BACK SPAN UNLESS NOTED OTHERWISE. FLOOR JOISTS SPANNING 16'-0" OR MORE WITHOUT A DIRECT APPLIED CEILING SHALL HAVE ROWS OF CONTINUOUS BLOCKING INSTALLED AT A MAXIMUM SPACING OF 8'-0" O.C. PARTITION WALLS THAT ARE PARALLEL WITH FLOOR JOISTS SHALL BE SUPPORTED WITH DOUBLE JOISTS OR CROSS BLOCKING BETWEEN THE TWO CLOSEST ADJACENT JOISTS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION DRAWINGS. ALL METAL HARDWARE TO BE SIMPSON STRONG TIE OR EQUAL AND INSTALLED ACCORDING TO MANUFACTURERS REQUIREMENTS. HOLES FOR BOLTS SHALL BE DRILLED AT THE SAME NOMINAL DIAMETER OF THE BOLT +1/16". HOLES FOR LAG SCREWS AND WOOD SCREWS SHALL BE DRILLED THE SAME NOMINAL LENGTH AND DIAMETER OF THE SHANK. LAG SCREWS AND WOOD SCREWS SHALL NOT BE DRIVEN INTO PLACE. NAIL SHANK DIAMETER AND LENGTHS SHALL BE PROVIDED TO THE FOLLOWING: <table> <tr><td>8D</td><td>0.131" ØX2.50"</td></tr> <tr><td>10D</td><td>0.146" ØX2.00"</td></tr> <tr><td>12D</td><td>0.149" ØX2.25"</td></tr> <tr><td>16D</td><td>0.162" ØX3.50"</td></tr> <tr><td>20D</td><td>0.192" ØX4.00"</td></tr> <tr><td>30D</td><td>0.207" ØX4.50"</td></tr> <tr><td>40D</td><td>0.225" ØX5.00"</td></tr> </table> WHEN APPLICABLE STAPLES MAY BE SUBSTITUTED FOR NAILS TO FASTEN STRUCTURAL SHEATHING TO SUPPORTING MEMBERS PROVIDED THAT THE STAPLES HAVE A CROWN WIDTH OF 7/16" AND SHALL BE INSTALLED WITH THEIR CROWNS PARALLEL TO THE LONG DIMENSION OF THE FRAMING MEMBERS. SUBSTITUTE STAPLES FOR NAILS ACCORDING TO THE FOLLOWING: <table> <tr><td>8D COMMON NAILS</td><td>14 GAUGE 1 1/2" STAPLES</td></tr> <tr><td>10D COMMON NAILS</td><td>13 GAUGE 1 1/2" STAPLES</td></tr> <tr><td>12D COMMON NAILS AT 4" O.C.</td><td>13 GAUGE 1 1/2" STAPLES</td></tr> <tr><td>16D COMMON NAILS AT 4" O.C.</td><td>16 GAUGE STAPLES AT 2 1/2" O.C.</td></tr> <tr><td>20D COMMON NAILS AT 12" O.C.</td><td>16 GAUGE STAPLES AT 3 1/4" O.C.</td></tr> </table> FASTENERS INSTALLED INTO PRESERVATIVE TREATED WOOD AND FIRE RETARDANT TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A153. CAST IN AND POST INSTALLED BOLTS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MINIMUM. WASHERS AND OTHER HARDWARE IN CONTACT WITH FASTENERS SHALL BE OF THE SAME ANTI-CORROSION TREATMENT AS THE FASTENERS THEY ARE IN CONTACT WITH. SEATING FASTENERS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE SHEATHING SURFACE. SILL PLATES OF EXTERIOR WALLS AND INTERIOR BEARING WALLS MUST BE ANCHORED TO THE FOUNDATION WITH A MINIMUM OF 5/8"X10" ANCHOR BOLTS @ 36" O.C. THERE SHALL BE A MINIMUM OF 1/2" OF EXPOSED THREAD ON EACH BOLT LOCATED NOT MORE THAN 12" OR LESS THAN 4" FROM EACH END OF EACH PIECE. A PROPER SIZED NUT AND STANDARD CUT WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE. SEAT WALL SILL PLATE ANCHOR BOLTS SHALL INCLUDE 3/16"X3" STEEL PLATE WASHERS BETWEEN THE SILL PLATE AND NUT. 3/16"X3" STEEL PLATE WASHERS ARE PERMITTED TO HAVE A DIAGONALLY SLOTTED HOLE WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A 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. 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 4-1/2" MINIMUM EMBEDMENT. INTERIOR SHEAR WALL ANCHOR BOLTS MAY ALSO BE EPOXIED INTO CONCRETE WITH SIMPSON SET-XP HILIT HIT-RE 500-SD EPOXY AND A MINIMUM 4-1/2" EMBEDMENT. 		FLOOR W/ 12" JOIST/TRUSS SPACING	24/12	FLOOR W/ 16" JOIST/TRUSS SPACING	32/16	FLOOR W/ 24" JOIST/TRUSS SPACING	48/24	ROOF W/ 12" JOIST/TRUSS SPACING	12/0	ROOF W/ 24" JOIST/TRUSS SPACING	24/0	ROOF W/ 48" JOIST/TRUSS SPACING	48/24	WALL W/ 12" JOIST/TRUSS SPACING	24/0	WALL W/ 16" JOIST/TRUSS SPACING	32/16	8D	0.131" ØX2.50"	10D	0.146" ØX2.00"	12D	0.149" ØX2.25"	16D	0.162" ØX3.50"	20D	0.192" ØX4.00"	30D	0.207" ØX4.50"	40D	0.225" ØX5.00"	8D COMMON NAILS	14 GAUGE 1 1/2" STAPLES	10D COMMON NAILS	13 GAUGE 1 1/2" STAPLES	12D COMMON NAILS AT 4" O.C.	13 GAUGE 1 1/2" STAPLES	16D COMMON NAILS AT 4" O.C.	16 GAUGE STAPLES AT 2 1/2" O.C.	20D COMMON NAILS AT 12" O.C.	16 GAUGE STAPLES AT 3 1/4" O.C.	<ol style="list-style-type: none"> ENGINEERED WOOD TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS: ROOF TRUSS TOP CHORD: 20 PSF DL (INCLUDING TRUSS WT), 20 PSF LL ROOF TRUSS BOTTOM CHORD: 5PSF DL, 10 PSF LL (NOT CONCURRENT W/ TOP CHORD LL) FLOOR TRUSS TOP CHORD: 10 PSF DL (INCLUDING TRUSS WEIGHT), 40PSF LL FLOOR TRUSS BOTTOM CHORD: 5 PSF DL, 10 PSF LL (NOT CONCURRENT W/ TOP CHORD LL) TRUSS MAXIMUM DEFLECTION SHALL NOT EXCEED L/240 FOR TOTAL LOAD OR L/360 FOR LIVE LOAD. LUMBER GRADE FOR ENGINEERED WOOD TRUSSES SHALL BE DF #2 OR BETTER. TRUSS TOP CHORDS SHALL BE 2X4 MINIMUM. TRUSS WEBS SHALL BE 2X4 MINIMUM. MAXIMUM LOAD DURATION FACTOR SHALL NOT BE GREATER THAN 1.15. MATERIAL PLATE BEARING STRESS FC = 625 PSI. THE TRUSS DESIGN SHALL INCLUDE ALL OF THE REQUIRED BEARING IMPROVEMENTS. DEFLECTION OF ALL ENGINEERED WOOD TRUSSES SHALL NOT EXCEED L/240. THE DESIGN MANUFACTURE AND QUALITY ASSURANCE SHALL CONFORM TO TPI 1. ALL TRUSSES SHALL BE DESIGNED FOR ALL LOADING FROM MECHANICAL, ELECTRICAL, FIRE, SPRINKLER, HVAC AND OTHER SUPER IMPOSED LOADS. TRUSS DESIGNER SHALL CORRELATE LOAD LOCATIONS WITH MECHANICAL, PLUMBING AND ELECTRICAL PLANS. ALL TRUSS SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THIS PROJECT IS BEING CONSTRUCTED. TRUSS ERECTION SHALL BE ACCORDING TO TRUSS MANUFACTURERS RECOMMENDATIONS. TRUSS DESIGNER SHALL DESIGN ENTIRE TRUSS SYSTEM, INCLUDING ALL TEMPORARY BRACING, PERMANENT LATERAL BRACING, AND TRUSS TO TRUSS CONNECTIONS THAT ARE REQUIRED. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND APPROVAL OF THE TRUSS MANUFACTURER AND THE ENGINEER OF RECORD. 																																					
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<ol style="list-style-type: none"> MINIMUM CONCRETE MIX REQUIREMENTS: CONCRETE COMPRESSIVE STRENGTH, f_c = 3000 PSI MAXIMUM WATER TO CEMENT RATIO: 0.45 CEMENTITIOUS MATERIAL: TYPE V + POZZOLAN OR SLAG STRUCTURAL CONCRETE SHALL REACH A MINIMUM 3-DAY COMPRESSIVE STRENGTH OF 1500 PSI AND SHALL REACH THE SPECIFIED COMPRESSIVE STRENGTH IN 28 DAYS. CONCRETE COMPRESSIVE TESTS SHALL CONFORM TO ASTM C 150 "TEST METHOD SAMPLING AND TESTING CONCRETE MASONRY UNITS AND RELATED UNITS". CEMENTITIOUS MATERIAL SHALL CONFORM TO ASTM C 150 "SPECIFICATION FOR PORTLAND CEMENT". THE CONCRETE SHALL BE PROPORTIONED AND PRODUCED TO HAVE A SLUMP OF 4 INCHES OR LESS. A TOLERANCE OF 1 INCH ABOVE THIS AMOUNT SHALL BE PERMITTED FOR INDIVIDUAL BATCHES PROVIDED THE AVERAGE FOR ALL BATCHES DOES NOT EXCEED 4 INCHES. THE SLUMP SHALL BE DETERMINED BY "STANDARD TESTING METHOD FOR SLUMP OF PORTLAND CEMENT" (ASTM C 143). WATER USED IN MIXING CONCRETE SHALL BE CLEAN FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIALS, OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR REINFORCEMENT. NONPOTABLE WATER SHALL NOT BE USED. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C330 "STANDARD SPECIFICATIONS FOR CONCRETE AGGREGATES". THE NORMAL MAXIMUM SIZE OF COARSE AGGREGATES SHALL NOT BE LARGER THAN 1/5 THE DISTANCE BETWEEN THE SIDES OF FORMS, 1/3 THE SLAB DEPTH, OR 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR WIRES. DEFORMED CONCRETE REINFORCING SHALL BE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM A 615 "STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON-STEEL BARS FOR CONCRETE REINFORCEMENT". PLAIN CONCRETE REINFORCING SHALL CONFORM TO ASTM A 184 "STANDARD SPECIFICATION FOR WELDED DEFORMED STEEL BAR MATS FOR CONCRETE REINFORCEMENT". BAR MATS FOR CONCRETE REINFORCEMENT SHALL CONFORM TO ASTM A 515 OR ASTM A 705. WELDED PLAIN WIRE FOR CONCRETE REINFORCEMENT SHALL NOT BE SMALLER THAN D4 AND SHALL CONFORM TO ASTM A 49 "STANDARD SPECIFICATION FOR STEEL WIRE, DEFORMED, FOR CONCRETE REINFORCEMENT". WELDED DEFORMED WIRE FOR CONCRETE REINFORCEMENT SHALL CONFORM TO ASTM A 497 "STANDARD SPECIFICATION FOR STEEL WELDED WIRE, DEFORMED, FOR CONCRETE REINFORCEMENT". WELDED WIRE FOR CONCRETE REINFORCEMENT SHALL NOT BE SMALLER THAN D4 AND SHALL CONFORM TO ASTM A 49 "STANDARD SPECIFICATION FOR STEEL WIRE, DEFORMED, FOR CONCRETE REINFORCEMENT". ALL ADMIXTURES, OTHER THAN AIR-ENTRAINING ADMIXTURES CONFORMING TO "STANDARD SPECIFICATIONS FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE" (ASTM C 260) MAY BE USED WITHOUT THE WRITTEN APPROVAL FROM THE ENGINEER. CALCIUM CHLORIDE AND CONCRETE ADDITIVES CONTAINING CHLORIDE SHALL NOT BE USED. LAP ALL REINFORCING BARS ACCORDING TO THE FOLLOWING LAP SPLICING SCHEDULE, WHERE BEAM REINFORCING IS REQUIRED TO BE SPliced, SPlicing SHALL ONLY TAKE PLACE IN COMPRESSION REGIONS, I.E. BOTTOM REINFORCING SPLICES ALLOWED OVER SUPPORTS AND TOP REINFORCING SPLICES ALLOWED IN THE BEAM MIDSPLANS, WHERE COLUMN VERTICAL REINFORCING IS REQUIRED TO BE SPliced, SPlicing WILL BE PERMITTED ONLY AT FLOOR LEVELS OR AREAS OF LATERAL SUPPORT. 		<p>ANALYSIS ITEMS</p> <table> <tr><td>GRAVITY LOADS</td><td>20 PSF</td></tr> <tr><td>ROOF LIVE:</td><td>15 PSF FOR SHEATHING AND 23 PSF FOR TILES.</td></tr> <tr><td>ROOF DEAD:</td><td>40 PSF [LIVING]</td></tr> <tr><td>FLOOR:</td><td></td></tr> <tr><td>DECK LIVE:</td><td>60 PSF</td></tr> <tr><td>FLOOR/DECK DEAD:</td><td>15 PSF [WOOD FLOOR]</td></tr> <tr><td>CEILING LIVE:</td><td>10 PSF</td></tr> <tr><td>CEILING DEAD:</td><td>10 PSF</td></tr> </table> <p>DEFLECTION CRITERIA</p> <table> <tr><td>ROOF MEMBERS</td><td>L/360</td></tr> <tr><td>Δ(LIVE)</td><td>L/240</td></tr> <tr><td>Δ(TOTAL LOAD)</td><td></td></tr> <tr><td>FLOOR MEMBERS</td><td>L/360</td></tr> <tr><td>Δ(LIVE)</td><td>L/240</td></tr> <tr><td>Δ(TOTAL LOAD)</td><td></td></tr> <tr><td>WALLS</td><td>L/240</td></tr> <tr><td>Δ(LIVE)</td><td>L/240</td></tr> </table> <p>SEISMIC DESIGN PARAMETERS</p> <table> <tr><td>SEISMIC DESIGN CATEGORY:</td><td>A</td></tr> <tr><td>SITE CLASS:</td><td>D</td></tr> <tr><td>OCCUPANCY CATEGORY:</td><td>II</td></tr> <tr><td>IMPORTANCE FACTOR, Ig:</td><td>1.00</td></tr> <tr><td>RESPONSE MOD. FACTOR, R:</td><td>6.5</td></tr> <tr><td>OVER STRENGTH FACTOR, Q:</td><td>2.5</td></tr> <tr><td>DEFLECTION AMPLIFICATION FACTOR, Cd:</td><td>4.0</td></tr> <tr><td>BASIC SEISMIC-FORCE-RESISTING SYSTEM(S):</td><td>LIGHT FRAMED WALLS SHEATHED W/ WOOD STRUCTURAL PANELS</td></tr> <tr><td>DESIGN BASE SHEAR, V:</td><td>CsW</td></tr> <tr><td>SEISMIC DESIGN COEFFICIENT, Cs:</td><td>0.011</td></tr> <tr><td>ANALYSIS PROCEDURE USED:</td><td>EQUIVALENT LATERAL FORCE</td></tr> <tr><td>Ss:</td><td>0.052</td></tr> <tr><td>S1:</td><td>0.030</td></tr> <tr><td>Fs:</td><td>1.6</td></tr> <tr><td>Fv:</td><td>2.4</td></tr> <tr><td>Ss1:</td><td>0.048</td></tr> <tr><td>Ss2:</td><td>0.055</td></tr> <tr><td>P:</td><td>1.3</td></tr> </table> <p>WIND DESIGN PARAMETERS</p> <table> <tr><td>BASIC WIND SPEED:</td><td>110 MPH</td></tr> <tr><td>EXPOSURE:</td><td>'C'</td></tr> <tr><td>OCCUPANCY CATEGORY:</td><td>II</td></tr> <tr><td>COMPONENTS AND CLADDING DESIGN WIND LOADS TO BE PER ASCE 7-16</td><td></td></tr> </table>		GRAVITY LOADS	20 PSF	ROOF LIVE:	15 PSF FOR SHEATHING AND 23 PSF FOR TILES.	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THE FOLLOWING ITEMS SHALL BE CONSIDERED AS DEFERRED SUBMITTAL ITEMS: <ol style="list-style-type: none"> ENGINEERED WOOD ROOF TRUSSES ENGINEERED WOOD FLOOR TRUSSES 		<p>General Notes</p> <p>1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & COORDINATE WITH TRADES TO ENSURE CONFORMANCE TO THESE PLANS & SPECIFICATIONS.</p>	
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<p>ALL REINFORCING BAR WILL BE GRADE 60 PER A.S.T.M A615</p> <table border="1"> <thead> <tr> <th colspan="2">REINFORCED CONCRETE LAP SPLICE SCHEDULE</th> </tr> <tr> <th colspan="2">F'c = 3000 PSI AT 28 DAYS</th> <th colspan="2">REINFORCEMENT LENGTH (INCHES)</th> </tr> </thead> <tbody> <tr> <td>SLICE CLASS</td> <td>REINFORCEMENT LOCATION</td> <td>#3 BARS</td> <td>#4 BARS</td> <td>#5 BARS</td> <td>#6 BARS</td> <td>#7 BARS</td> <td>#8 BARS</td> </tr> <tr> <td rowspan="2">A</td> <td>TOP</td> <td>24</td> <td>32</td> <td>39</td> <td>47</td> <td>69</td> <td>78</td> </tr> <tr> <td>BOTTOM</td> <td>18</td> <td>24</td> <td>30</td> <td>36</td> <td>53</td> <td>60</td> </tr> <tr> <td rowspan="2">B</td> <td>TOP</td> <td>31</td> <td>41</td> <td>51</td> <td>61</td> <td>89</td> <td>102</td> </tr> <tr> <td>BOTTOM</td> <td>24</td> <td>32</td> <td>39</td> <td>47</td> <td>69</td> <td>78</td> </tr> </tbody> </table> <p>MINIMUM CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE AS FOLLOWS:</p> <p>CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL: 3"</p> <p>CONCRETE EXPOSED TO SOIL OR WEATHER: #5 BARS, W31 OR D31 WIRES, AND SMALLER: 13" #6 BARS AND LARGER: 2"</p> <p>CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL: SLABS, WALLS AND JOISTS: #11 BARS AND SMALLER: 3/4" #14 BARS AND LARGER: 12"</p> <p>BEAMS AND COLUMNS: 12"</p>		REINFORCED CONCRETE LAP SPLICE SCHEDULE		F'c = 3000 PSI AT 28 DAYS		REINFORCEMENT LENGTH (INCHES)		SLICE CLASS	REINFORCEMENT LOCATION	#3 BARS	#4 BARS	#5 BARS	#6 BARS	#7 BARS	#8 BARS	A	TOP	24	32	39	47	69	78	BOTTOM	18	24	30	36	53	60	B	TOP	31	41	51	61	89	102	BOTTOM	24	32	39	47	69	78	<ol style="list-style-type: none"> HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION. SEE ARCHIT																																					
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No.	Revision/Issue	Date

Firm Name and Address

TEXAS STRUCTURAL ENGINEERS
7505 FANNIN ST, SUITE#440
HOUSTON, TEXAS 77054
P:(713)-999-5384

Project Name and Address

15515 McCormick Vista
Dr. Austin TX
Sheet Title:

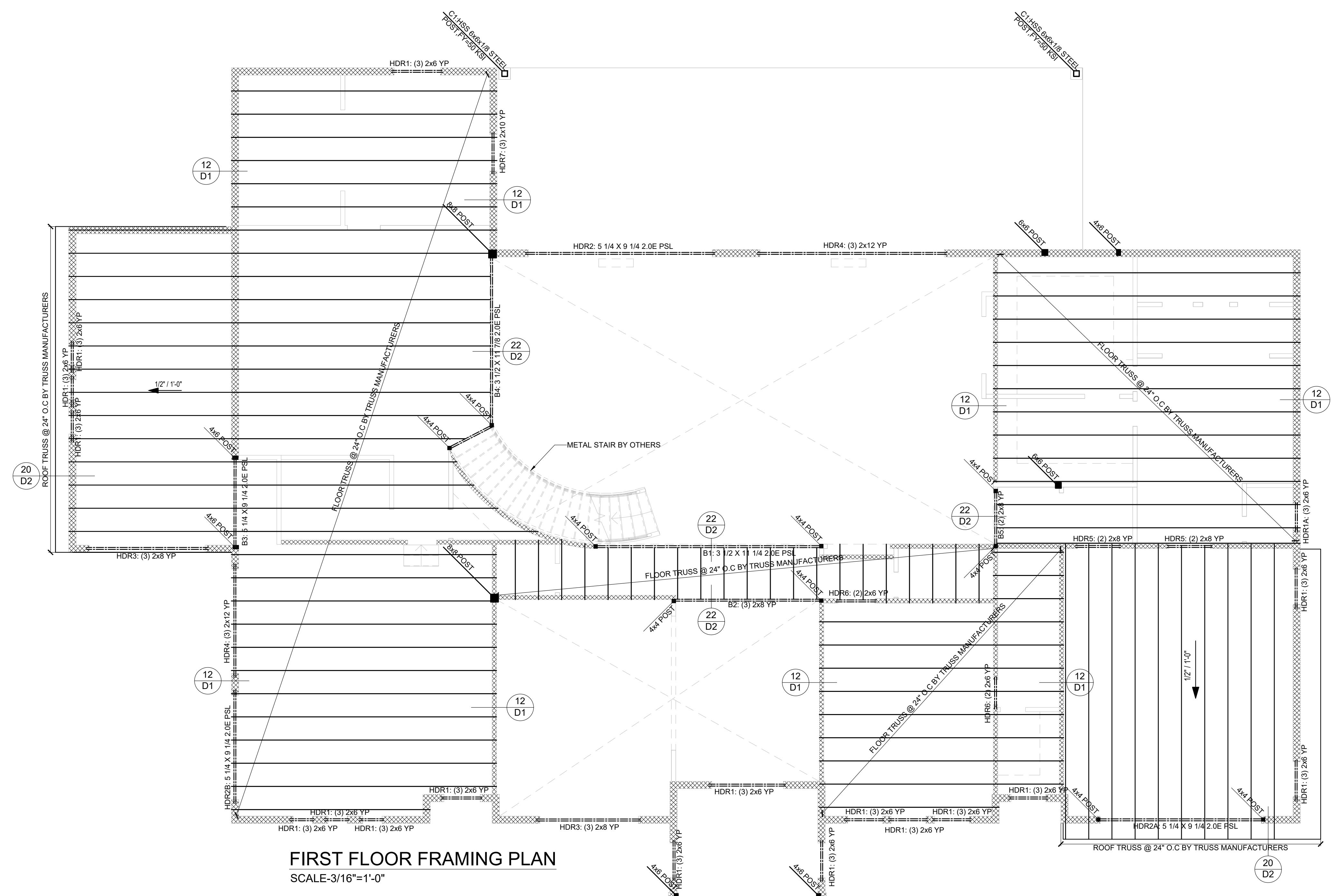
FOOTING LAYOUT PLAN

Project	TSE-20XX-XXXX	Sheet
Date	09/24/2024	
Scale	As Noted	

S1.2

General Notes

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FIRST FLOOR FRAMING PLAN

SCALE-3/16"=1'

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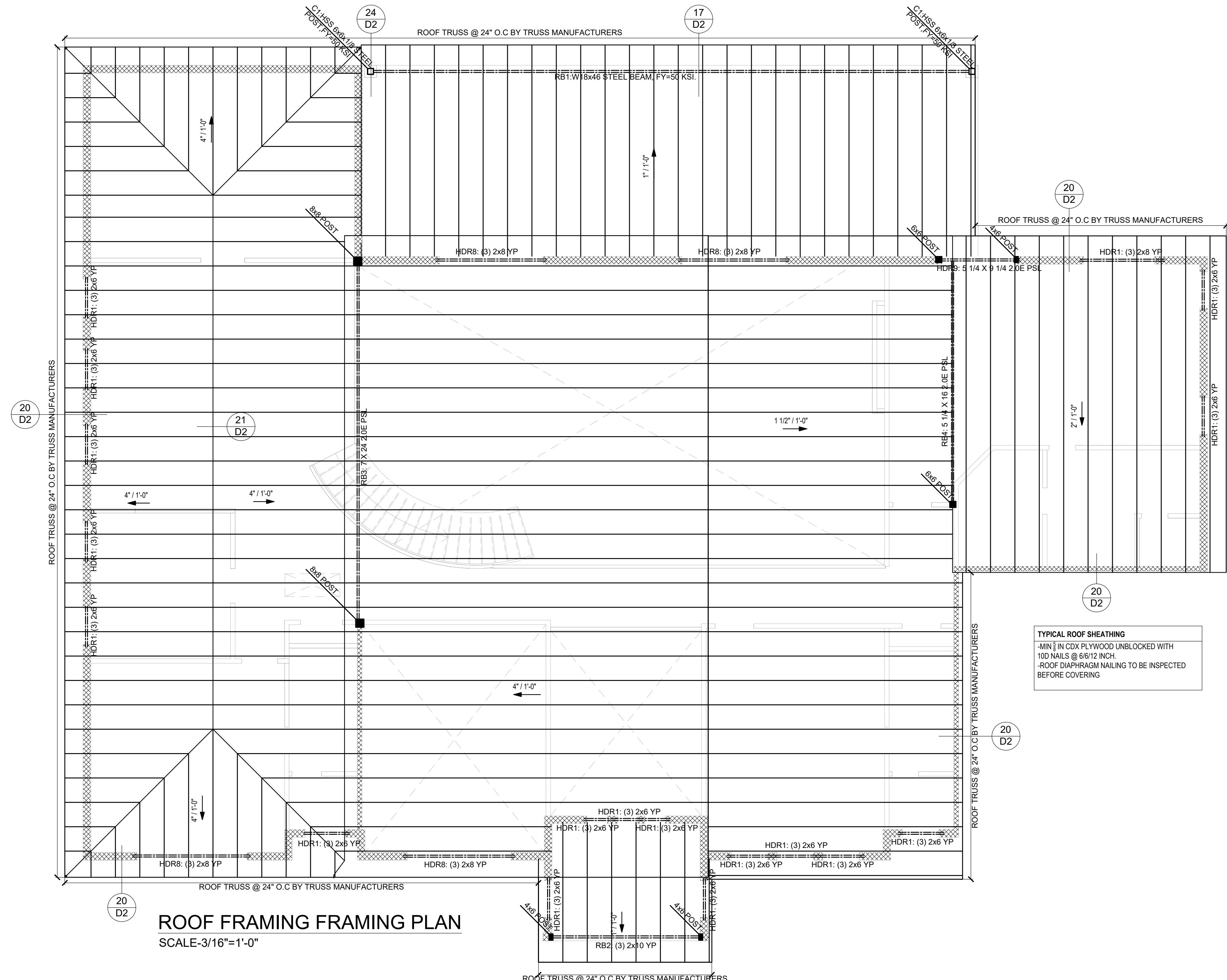
Project Name and Address
15515 McCormick Vista
Dr. Austin TX

FIRST FLOOR FRAMING PLAN

Project	Sheet
TSE-20XX-XXXX	
Date	09/24/2024
Scale	S1.3
As Noted	

General Notes

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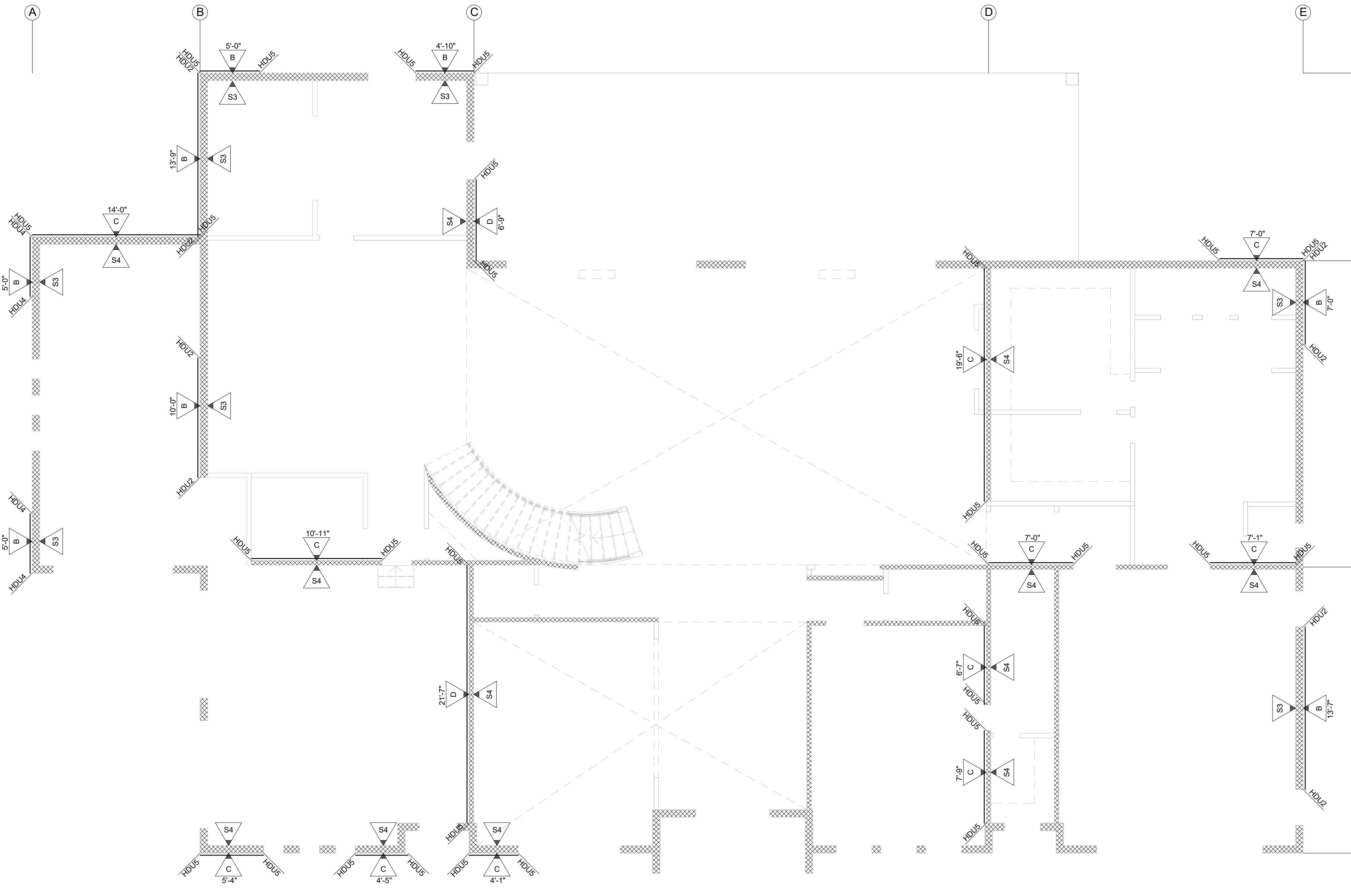
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Object Name and Address
5515 McCormick Vista
Dr. Austin TX
Street Title:

ROOF FRAMING PLAN

ject	Sheet
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te	
09/24/2024	S1.4
ale	
As Noted	



HOLDOWN SCHEDULE		
HOLDOWN	FASTENERS	COMMENTS
HDU2	6-SDS 1/4" x 2 1/2"	ATTACH TO (2) 2x ₆ POST ABOVE THE FLOOR DECK
HDU4	10-SDS 1/4" x 2 1/2"	ATTACH TO (2) 2x ₆ POST ABOVE THE FLOOR DECK
HDU5	14-SDS 1/4" x 2 1/2"	ATTACH TO (2) 2x ₆ POST ABOVE THE FLOOR DECK
MST27	(30) 16d NAILS EACH END OF EACH STRAP	ATTACH EACH STRAP TO (2) 2x POST ABOVE AND BELOW THE FLOOR DECK, UNO
MST37	(42) 16d NAILS EACH END OF EACH STRAP	ATTACH EACH STRAP TO (2) 2x POST ABOVE AND BELOW THE FLOOR DECK, UNO

SHEAR WALL SCHEDULE					
MARK	MATERIAL	NAILING	SHEATHING TO PLATE CONNECTION	ALLOWABLE LOAD CAP. (Pf)	
A	7/16" Structural I Sheathing.	8d @ 6" O.C. ALL EDGES 8d @ 12" O.C. IN FIELD	1/4" lag screw 7/8" @ 12" O.C.	LTP4@22" @ TOP PLATE	255
B	7/16" Structural I Sheathing.	8d @ 4" O.C. ALL EDGES 8d @ 12" O.C. IN FIELD	1/4" lag screw 7/8" @ 8" O.C.	LTP4@15" @ TOP PLATE	395
C	7/16" Structural I Sheathing.	8d @ 3" O.C. ALL EDGES 8d @ 12" O.C. IN FIELD	1/4" lag screw 7/8" @ 6" O.C.	LTP4@12" @ TOP PLATE	505
D	7/16" Structural I Sheathing.	8d @ 2" O.C. ALL EDGES 8d @ 12" O.C. IN FIELD	1/4" lag screw 7/8" @ 4" O.C.	LTP4@10" @ TOP PLATE	670

SILL PLATE ANCHOR SCHEDULE			
MARK	SILL PLATE THICKNESS	1/2" DIA. A-BOLT SPACING	5/8" DIA. A-BOLT SPACING
S3	2X ₆	25" O.C.	35" O.C.
S4	2X ₆	18" O.C.	25" O.C.

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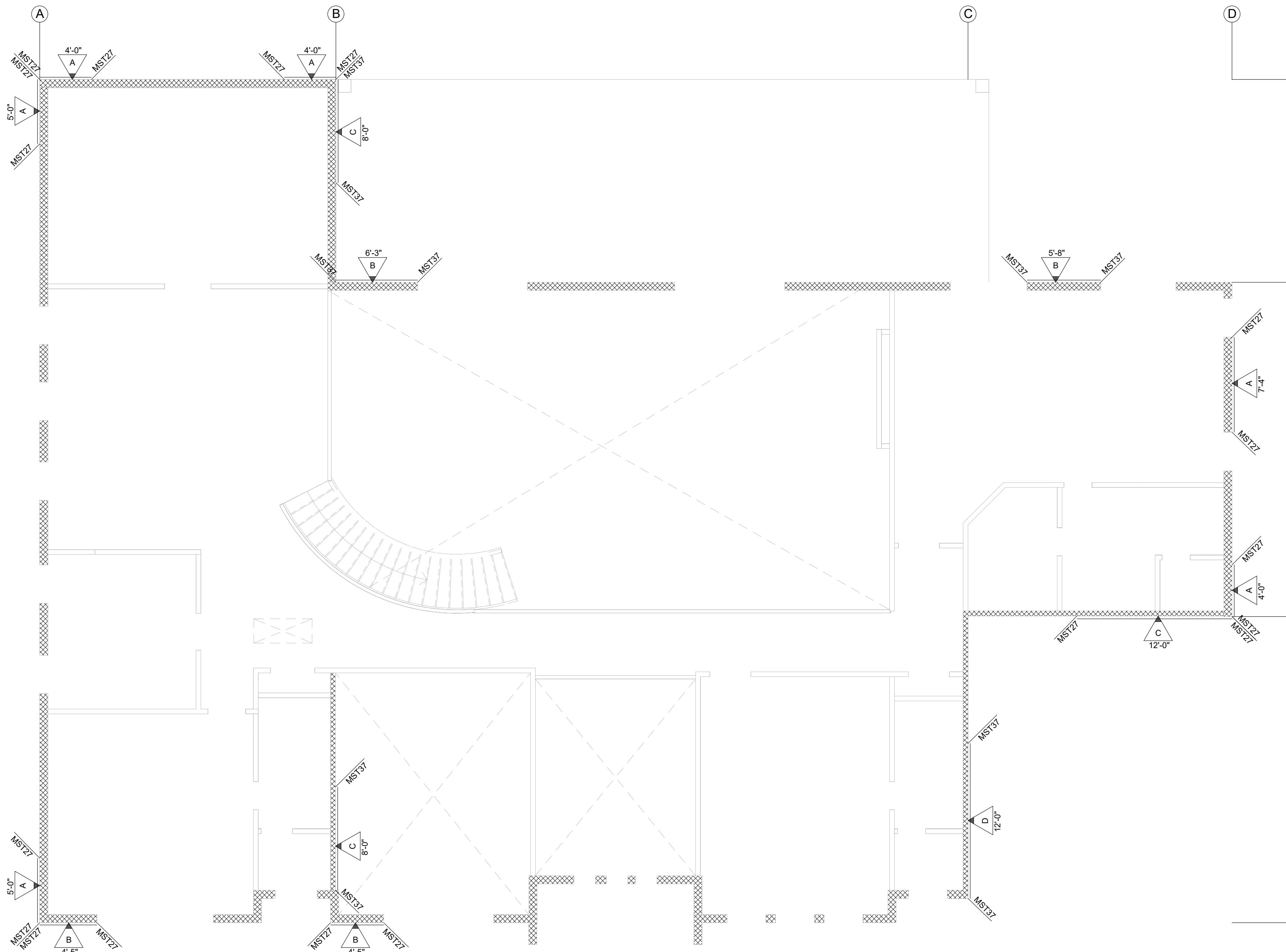
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Project Name and Address
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Dr. Austin TX
Sheet Title:
FIRST FLOOR SHEAR WALL PLAN

Project TSE-20XX-XXXX **Sheet**
Date 09/24/2024 **Scale**
As Noted

S1.5



SECOND FLOOR FLOOR SHEAR WALL PLAN

SCALE-3/16"=1'-0"

HOLDOWN SCHEDULE		
HOLDOWN	FASTENERS	COMMENTS
HDU2	6-SDS 1/4" x 2 1/2"	ATTACH TO (2) 2x POST ABOVE THE FLOOR DECK
HDU4	10-SDS 1/4" x 2 1/2"	ATTACH TO (2) 2x POST ABOVE THE FLOOR DECK
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MST37	(42) 16d NAILS EACH END OF EACH STRAP	ATTACH EACH STRAP TO (2) 2x POST ABOVE AND BELOW THE FLOOR DECK, UNO

SHEAR WALL SCHEDULE					
MARK	MATERIAL	NAILING	SHEATHING TO PLATE CONNECTION		ALLOWABLE LOAD CAP. (Pf)
			SOLE PLATE	TOP PLATE	
A	7/16" Structural I Sheathing.	8d @ 6" O.C. ALL EDGES 8d @ 12" O.C. IN FIELD	1/4" lag screw 7/16" @ 12" O.C.	LTP4@22" @ TOP PLATE	255
B	7/16" Structural I Sheathing.	8d @ 4" O.C. ALL EDGES 8d @ 12" O.C. IN FIELD	1/4" lag screw 7/16" @ 8" O.C.	LTP4@15" @ TOP PLATE	395
C	7/16" Structural I Sheathing.	8d @ 3" O.C. ALL EDGES 8d @ 12" O.C. IN FIELD	1/4" lag screw 7/16" @ 6" O.C.	LTP4@12" @ TOP PLATE	505
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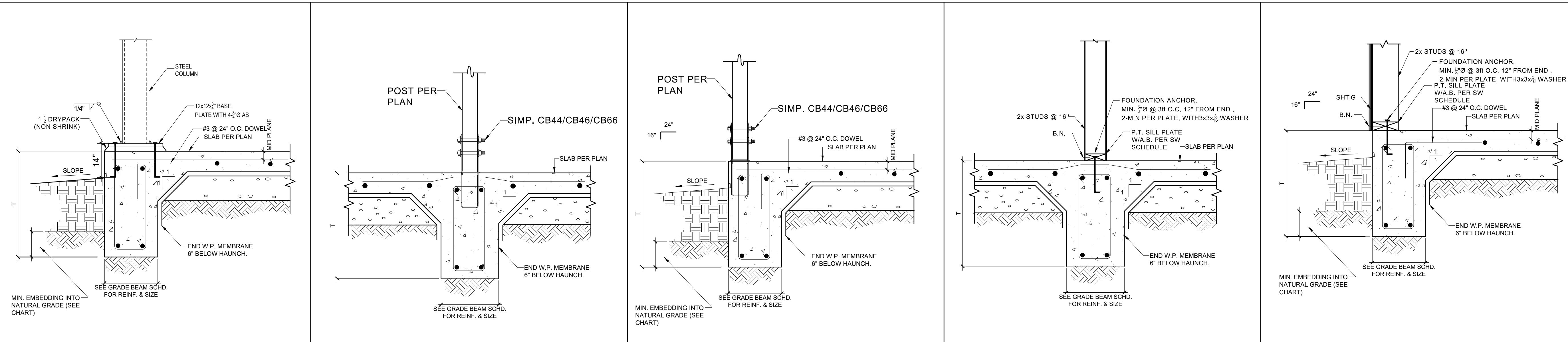
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Sheet Title:
**SECOND FLOOR
SHEAR WALL PLAN**

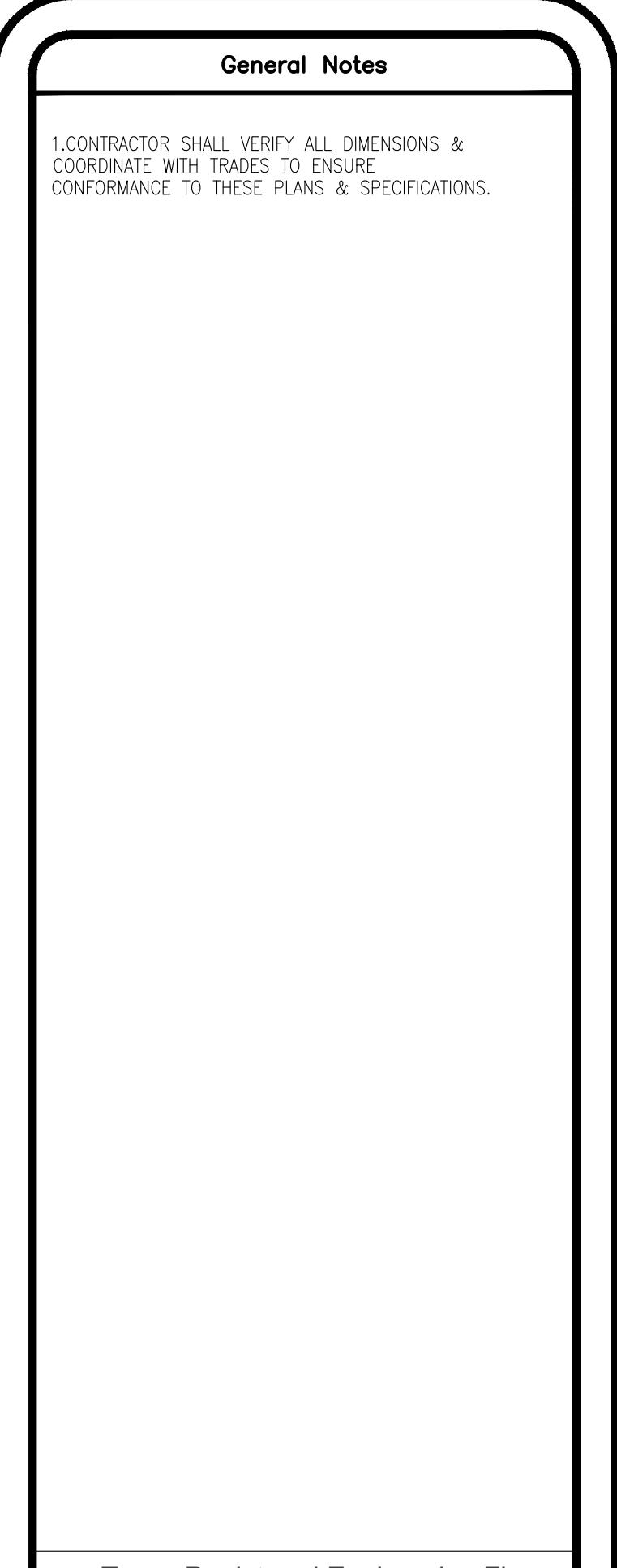
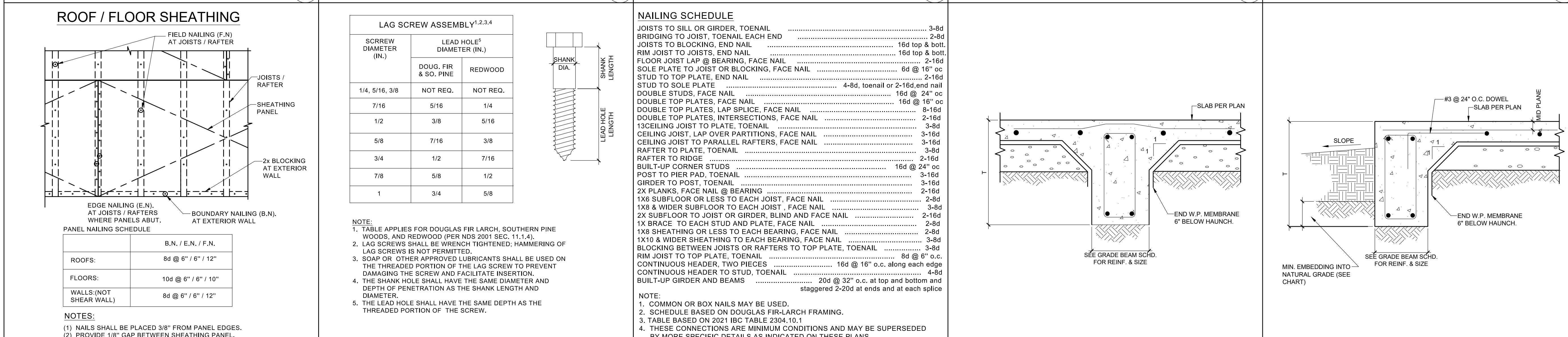
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5 DETAIL 4 DETAIL 3 DETAIL 2 DETAIL 1



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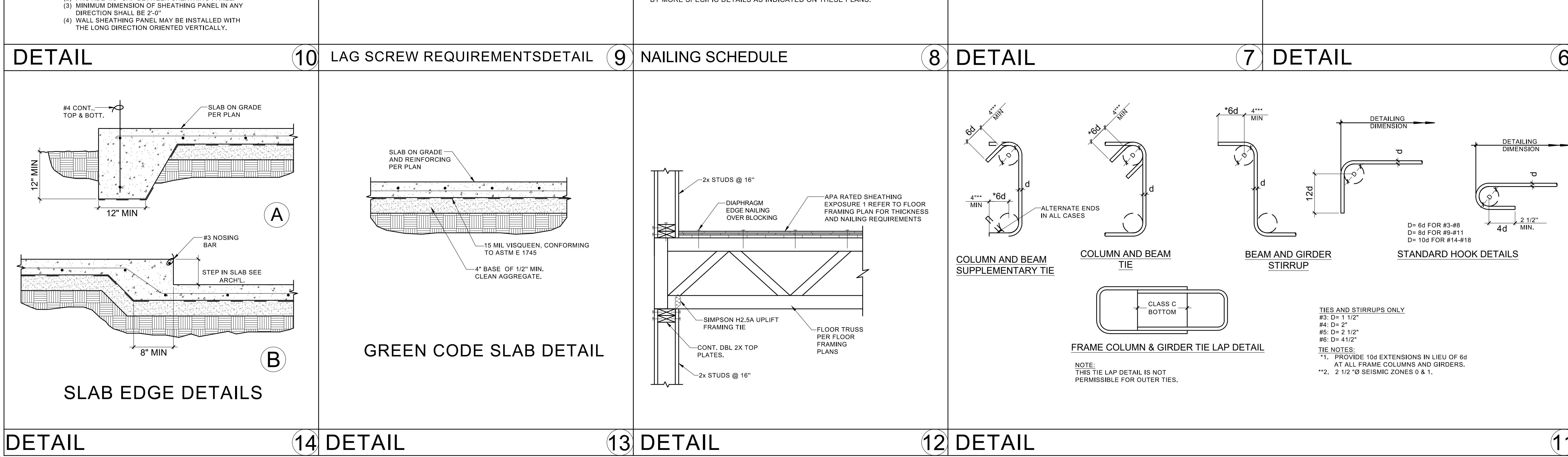
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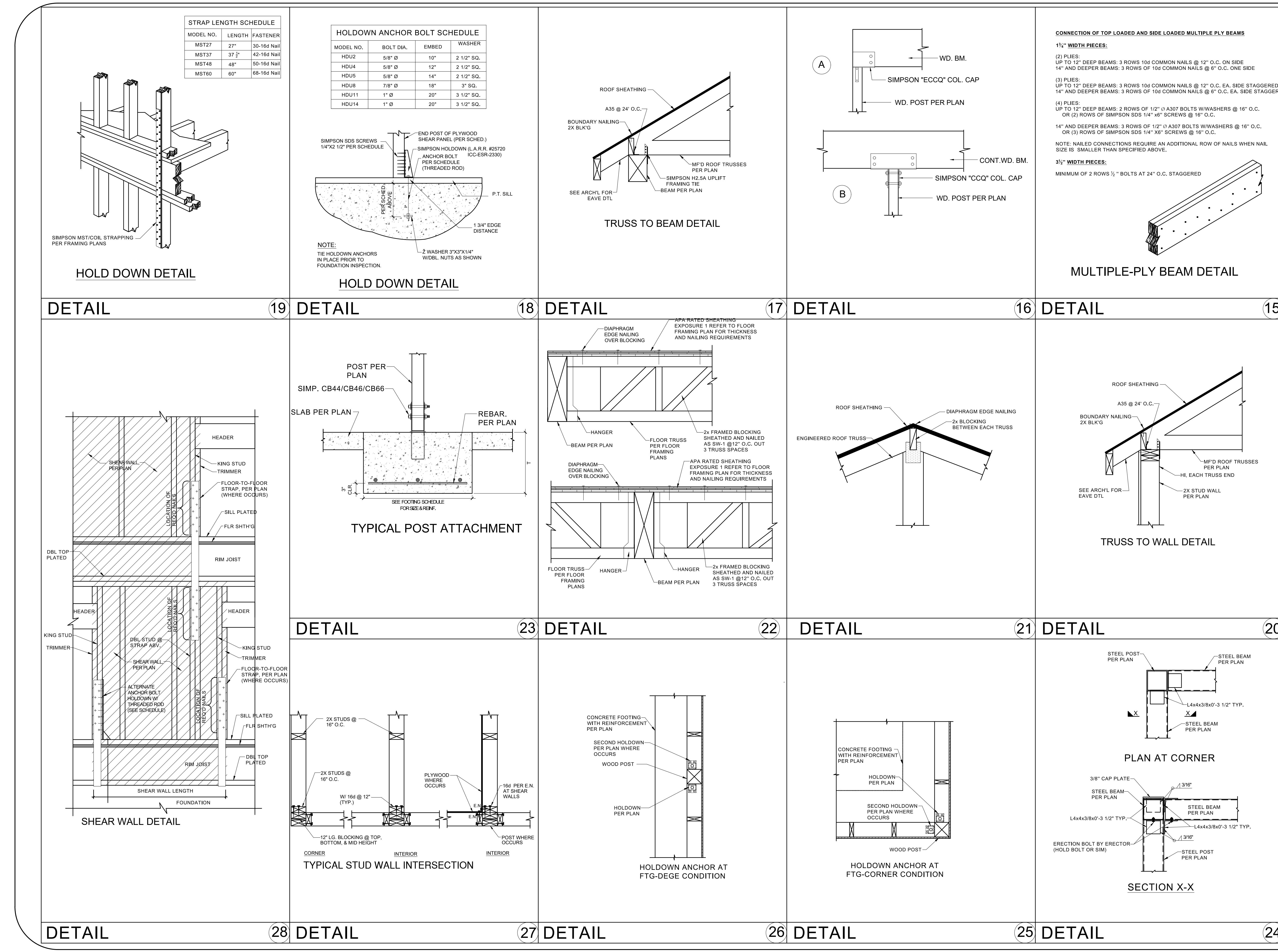
TEXAS STRUCTURAL ENGINEERS
7505 FANNIN ST, SUITE#440
HOUSTON, TEXAS 77054
P:(713)-999-5384

Project Name and Address
15515 McCormick Vista
Dr. Austin TX
Sheet Title:

DETAILS

Project	Sheet
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As Noted	





General Notes

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & COORDINATE WITH TRADES TO ENSURE CONFORMANCE TO THESE PLANS & SPECIFICATIONS.

Texas Registered Engineering Firm
F-21242

THIS DRAWING IS PART OF A SET OF DRAWINGS FOR THIS PROJECT AND SHALL NOT BE CONSIDERED VALID UNLESS IT IS ACCOMPANIED BY THE COMPLETE SET OF DRAWINGS.

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