2.	CONCRETE FOUNDATION CONSTRUCTION	3.	WOOD FRAMING CONSTRUCTION		
200.	CONCRETE STRENGTH SHALL BE NO LESS THAN 2,500 PSI @ 28 DAYS, OR HIGHER STRENGTH IF NOTED	505.	ROOF TO WALL: CONNECT ROOF FRAMING TO TOP PLATE W/ SIMPS OR A35 OR RBC @ 24" O/C OR PER SHEAR TRANSFER DETAILS.		
202	ON THE PLANS.		SILL PLATE ANCHORS:		
202.	REINFORCING BARS TO BE GRADE 40 FOR #3 BARS, GRADE 60 FOR #4 BARS & LARGER	. 306.	GROUND FLOOR / SLAB ON GRADE WALLS: PROVIDE 2X (MIN.) PTDF		
200.	PROVIDE WEAKENED PLANE JOINTS FOR CRACK CONTROL (SAWCUT OR TOOLED JOINT) AT 14'-0" O/C MAX.		BOLTS. AT INTERIOR NON-SHEAR CONDITIONS, 0.145 SHOT PIN AND MAY BE USED TO CONNECT PARTITIONS AND BEARING WALLS TO S		
205.	SILL ANCHORAGE AT ALL SHEARWALL LOCATIONS SHALL BE PER THE SHEARWALL SCHEDULE ALL SHEARWALL ANCHOR BOLTS SHALL RECEIVE A 3" SQUARE X 0.229" THICK WASHER. THE WASHER MAY BE DIAGONALLY SLOTTED (WIDTH >= BOLT DIAMETER + 3/16", LENGTH<= $1\frac{3}{4}$ ") PROVIDED THAT A STANDARD CUT WASHER IS USED ON TOP OF THE SQUARE WASHER. SHEARWALL ANCHORS SHALL BE PLACED A MIN OF $1\frac{3}{4}$ " FROM THE EDGE OF CONCRETE	307. E.	ALL WOOD SILL PLATES AND ALL WOOD MEMBERS DIRECTLY AGA MASONRY SHALL BE FOUNDATION GRADE REDWOOD SILLS OR PT SODIUM BORATE (SBX/DOT) WHEN INSTALLED IN A DRY OR ENCLOS (SODIUM BORATE TREATMENT DOES NOT REQUIRE CORROSION RI IF OTHER TREATMENTS ARE USED, SEE NOTE 309.		
206.	EMBEDDED SILL ANCHOR BOLTS AT TYPICAL NON-SHEARWALL CONDITIONS SHALL BE $\frac{5}{8}$ " DIA. MIN. ANCHOR BOLTS WITH A STANDARD CUT WASHER. SPACING SHALL NOT EXCEED 48 INCHES O/C. LOCATE AN ANCHOR BOLT NOT MORE THAN 9 INCHES, OR LESS THAN 4" FROM ENDS AND SPLICES. EACH SILL SHALL HAVE (2) SILL BOLTS MIN.	308.	FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD: ALL NAILS AND FASTENERS IN CONTACT WITH PRESSURE TREATED ACQ-C, ACQ-D, CA-B, AND CBA-A WITHOUT AMMONIA SHALL BE GAU ASTM A153.		
207.	ANCHOR BOLTS SHALL BE EMBEDDED A MIN. OF 7 INCHES INTO CONCRETE. IN A TWO-POUR SYSTEM, ANCHOR BOLTS TO BE EMBEDDED 5 INCHES MIN. INTO FIRST POUR.		ACQ-C, ACQ-D, CA-B, AND CBA-A WITH AMMONIA SHALL BE TYPE 30 OR 316 STAINLESS STEEL.		
208.	SEE WOOD FRAMING CONSTRUCTION NOTES FOR ALTERNATE SILL ANCHORAGE.		WHERE PRESSURE TREATED LUMBER IS INSTALLED IN AN EXTERIC ALL NAILS AND FASTENERS IN CONTACT WITH THE PRESSURE TRE		
209.	ALL HOLDOWNS SHALL BE PLACED A MINIMUM DIM AS SHOWN IN DETAIL 3&4/S4 FROM EXTERIOR CORNER OF SLAB.	200	TYPE 303, 304, 305, OR 316 STAINLESS STEEL.		
210.	VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. SUBCONTRACTOR TO VERIFY	310.	ENGINEERED BEAMS ARE AS FOLLOWS:		
	ALL DIMENSIONS PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY HOMEOWNER AND CITY OF SANTA ANA OF ANY DISCREPANCY, TYPICAL.		"PSL" REFERS TO PARALLEL STRAND LUMBER (E=2.0, FB=2900). "LSL" REFERS TO LAMINATED STRAND LUMBER (E=1.55, FB=2325).		
211.	PROVIDE A UFER GROUND FOR ELECTRICAL SYSTEM PER ARTICLE 250.52 N.E.C.		(E=1.3 & FB=1700 AT LSL CONDITIONS WITH D (DEPTH) < 9") "LVL" REFERS TO LAMINATED VENEER LUMBER (E=2.0, FB=2800).		
212.	ALL SURROUNDING FLAT WORK SHALL BE VERIFIED WITH HOMEOWNER FOR LOCATION AND AMOUNT TO BE POURED.		"IJC" ENGINEERED GLU-LAM BEAM MAY BE USED UPON ENGINEER A AN A.I.T.C CERTIFICATE OF COMPLIANCE ISSUED BY A CURRENT IC		
213.	RETROFIT MISPLACED HOLDOWNS AS NOTED BELOW. AT EPOXY ANCHORS USE SIMPSON SET-XP EPOXY PER MANUFACTURERS INSTALLATION REQUIREMENTS AS FOLLOWS:		APPROVED QUALITY CONTROL AGENCY FOR GLUED LAMINATED W SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO INSTALLA		
	RETROFIT BOLTREPLACEMENT HARDWAREMISPLACED HOLDOWN LSTHD8, HTT4 $\frac{5}{8}$ " ALL-THREAD, EMBED 9"HTT4 $\frac{5}{8}$ " ALL-THREAD, EMBED 9"HTT5 $\frac{5}{8}$ " ALL-THREAD, EMBED 7" ATTACH TO EXISTING A.B.LTT20B HDU8 $\frac{7}{8}$ " ALL-THREAD, EMBED 15"HDU8	311.	LUMBER SPECIFICATIONS:ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH. STUDS, PL2X4 FRAMING LUMBER NOT LISTED BELOW92-1/4", 104-1/4", & 116-1/4" 2X4 STUDS92-1/4", 104-1/4", & 116-1/4" 2X4 STUDS2X4 STUDS OVER 10'2X4 STUDS OVER 10'2X4 SILLS & PLATES2X6 STUDS SILLS & PLATES		
214.	RETROFIT $\frac{3}{4}$ " & $\frac{5}{8}$ " EMBEDDED ANCHOR BOLTS AS NOTED BELOW. AT EPOXY ANCHORS USE SIMPSON SET-XP EPOXY PER SIMPSON'S INSTALLATION REQUIREMENTS. LOCATION SLAB EDGE, 1.3/4" DIST.TYPEREPLACEMENTSLAB EDGE, 1.3/4" DIST.SHEARWALL $\frac{5}{8}$ " ALL-THREAD, EPOXY, EMBED 3" OR $\frac{5}{8}$ " TITEN HD, EMBED 3" MIN.		4X4 STUDS & POSTS#2 OK BETTER4X6, 6X6, & LARGER STUDS & POSTS#1 OR BETTER4X4, 4X6 BEAMS & HEADERS#2 OR BETTER4X8, 4X10, 4X12, 4X14 BEAMS & HEADERS#1 OR BETTER6X4 BEAMS & HEADERS#2 OR BETTER6X6 & LARGER BEAM & HEADERS#1 OR BETTER		
	INTERIOR > 6," EDGE DIST. SHEARWALL OR NON-SHEAR $\frac{5}{8}$ " TITEN HD, EMBED 3" MIN.	312	2X6 AND LARGER RAFTERS AND JOISTS #2 OR BETTER HOLES, CUTOUTS, AND NOTCHES IN FRAMING MEMBERS:		
	ANY OTHER NON-SHEAR 0.145 DIA. SHOT PINS SPACED 4 INCHES APART ON SILL. (2) FOR EACH MISSING ANCHOR BOLT. MAX. OF (6) SHOT PINS EVERY 6 FT.		BY VIRTUE OF CODE COMPLIANCE WITH ELECTRICAL AND PLUMBIN AND NOTCHES WILL INEVITABLY BE MADE IN FRAMING MEMBERS. T RECOGNIZES AND APPROVES VARIOUS HOLES AND NOTCHES WITH JUSTIFICATION IN CBC SECTION 2308.8.2. ENGINEERED (PSL, LSL) R		
215.	WHEN REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, HAVE CONTRACTOR DOCUMENTATION IN WRITING FOR THE FOLLOWING:A) THE PAD WAS PREPARED IN ACCORDANCE WITH THE SITE REQUIREMENTS AND CITY OF SANTA ANA APPROVAL		BORED, SO THE ENGINEER OR ARCHITECT MAY SPECIFY LIMITS WIT APPROVAL OTHER HOLES AND NOTCHES ARE ALLOWED AS NOTED I		
	 B) THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED & COMPACTED. C) THE FOUNDATION EXCAVATIONS, EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY COMPLIES WITH THE CITY OF SANTA ANA RECOMMENDATIONS . 		AND A 2 INCH DIA. HOLE CAN BE DRILLED IN THE MIDDLE THIRD OF T THE MIDDLE THIRD OF THE DEPTH OF THE BEAM FOR ANY PSL OR L' EXCEPT CANTILEVERED BEAMS AND BEAMS SUPPORTING CONCENT HOLES IN THOSE CONDITIONS REQUIRE APPROVAL IN WRITING FRO		
216.	ALL HOLDOWN ANCHORS & HARDWARE MUST BE TIED IN PLACE PRIOR TO CALLING FOR A FOUNDATION INSPECTION.		PSL AND LVL BEAMS: A RAKE CUT (TAPER) AT THE TOP OF THE BEA		
300.	ROOFING MATERIALS SHALL BE PER ARCHITECTURAL DRAWINGS.		MINIMUM OF 4-3/8" AT INSIDE FACE OF SUPPORT. RAKE CUT (TAPER RESULTS IN A DEPTH AT THE INSIDE FACE OF THE SUPPORT OF 2/3F		
301.	ROOF SHEATHING SHALL BE $\frac{19}{32}$ " OR $\frac{5}{8}$ " C-D GRADE, INTERIOR TYPE PLYWOOD WITH EXTERIOR GLUE, OR OSB PANELS. IDENTIFICATION INDEX (24/0) W/ 8D COMMON NAILS @ 6" O/C @ ALL PERIMETER EDGES AND ALL INTERIOR SUPPORTED EDGES AND @ 12" O/C @ ALL INTERMEDIATE SUPPORTS. SEE DETAILS FOR SHEAR AND		BEAM DEPTH IS ALLOWED AT CONDITIONS NOT SPECIFIED. OTHER ENDS AND SQUARE NOTCHES IN TOP OR BOTTOM FACE REQUIRE AN WRITING FROM THE ENGINEER OR ARCHITECT.		
	DRAG NAILING.		AND BORING.		
302.	TYPICAL WALL SHEATHING: INTERIOR SURFACES: WHERE DRYWALL IS SPECIFIED, PROVIDE MIN. 5" GYPSUM WALLBOARD W/ 5D COOLER NAILS OR EQUAL @ 7" O/C TO ALL STUDS AND TO TOP & BOTTOM PLATES (UNBLOCKED) AT INTERIOR SIDE OF EXTERIOR WALLS AND AT BOTH		PROVIDE 2X4 TRIMMER & 2X4 KING STUD EACH END OF EACH 4X DRO OR HEADER. PROVIDE DOUBLE TRIMMERS AT EACH 4X10 OR LARGE TRIMMERS AT EACH 3-1/2 X 7-1/2 PSL OR LSL OR LARGER.		
	SIDES OF ALL INTERIOR WALLS. EXTERIOR SURFACES: SEE PLANS. WHERE "STUCCO" IS SPECIFIED PROVIDE $\frac{7}{8}$ " EXTERIOR CEMENT PLASTER OVER WIRE LATH OVER TYPE 15 BUILDING DADED	314.	314. PROVIDE 2X6 TRIMMER & 2X6 KING STUD EACH END OF EACH 6X DRO OR HEADER. PROVIDE DOUBLE TRIMMERS AT EACH 6X8 OR LARGER TRIMMERS AT EACH 5-1/4 X 7-1/2 PSL OR LSL OR LARGER.		
	LATH ATTACHED TO ALL STUDS AND TOP AND BOTTOM PLATES (OR BLOCKING AS OCCURS) W/ 16 GAGE X $\frac{7}{16}$ " STAPLES @ 6" O/C OR NO. 11 GAGE X 1-1/2"		PROVIDE DOUBLE KING STUDS AT ALL OPENINGS 8'-1" WIDE AND WI		
202	FURRING NAILS WHERE INDICATED ON ELEVATIONS.		WHERE BEARING IS ON TOP PLATE. PROVIDE 2X4 STUD WITHIN 3" OF PROVIDE (2) 2X STUDS @ 6X OP LSL OP DSL BEAMS		
003.	PLYWOOD ALSO APPLIES TO OSB.	317.	ROOF RAFTERS SHALL BE 2X RAFTERS AS NOTED ON STRUCTURAL [
304.	 TOP PLATES SHALL BE DOUBLE 2X W/ WIDTH EQUAL TO STUDS BELOW, W/ (21)16D NAILS MIN. @ MINIMUM 4'-0" LAP SPLICES. USE SIMPSON RPS OR CS16 STRAP EACH SIDE OR ONE SIDE AND TOP WHERE LAP SPLICE IS NOT POSSIBLE. SEE DETAILS FOR NOTCHES, CUT-OUTS AND COMPLETE PLATE BREAKS AT HEATING, VENTING, AND PLUMBING. 		EAVES SHALL BE PER ARCHITECTURAL PLANS W/ APPLIED TAILS PE PLANS. OVERHANG DETAILS ARE NOT SHOWN ON STRUCTURAL PLA		
			SEE THE ARCHITECTURAL ROOF PLANS FOR ROOF PITCH AND ADDI COMBINE AND GROUP PLUMBING VENTS WHENEVER POSSIBLE TO M PENETRATIONS.		

(CONT.)	3. WOOD FRAMING CONSTRUCTION (CONT.)	6. NAILING SCHEDULE, MINIMUMS (CBC CH/	APTER 23, TABLE 2304.10.2)					
SON H1 @ 24" O/C	321. WOOD TO WOOD CONNECTORS SHALL BE SIMPSON STRONG TIE OR USP STRUCTURAL CONNECTORS. ALL SPECIFIED CONNECTOR CALL-OUTS ARE SIMPSON CATALOG CALL-OUTS. USP SUBSTITUTIONS SHALL HAVE A CAPACITY EQUAL TO OR GREATER THAN THE SIMPSON CATALOG VALUES. ANY OTHER ICC APPROVED METAL CONNECTOR MAY BE USED UPON APPROVAL BY THE ENGINEER OR ARCHITECT.	BLKNG AT CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMIN BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR T BLKNG AT CEILING RAFTERS OR TRUSSES NOT AT WALL TOP PLATE TO RAFTER OR T FLAT BLKNG TO TRUSS AND WEB, F.N. CEILING JOISTS TO TOP PLATE, T.N. CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS, F.N.	G, T.N. 4-8d Box, 3-8d Com, 3-10d box, 3-3" x 0.131" na RUSS, T.N. 2-8d Com, 2-3" x 0.131" na RUSS, E.N. 2-16d Com, 3-3" x 0.131" na 16d Com, 3"x.131" nails, 3"x1 4-8d box, 3-8d Com, 3-10d box, 3-3"x.131 nails, 3"x1 9ER 2308.7.3.1					
F SILL PLATES. 08 FOR ANCHOR CHORS @ 32" O/C CLAB.	322. ICC APPROVED CONNECTORS SHALL BE USED WHERE CONNECTORS ARE SPECIFIED. UNLESS OTHERWISE NOTED, THE FOLLOWING BEAM AND JOIST HANGERS SHALL BE USED: BEAM OR JOIST SIMPSON/USP HANGER I-JOIST FLOOR JOISTS IUS, IUT, OR ITT HANGERS	CEILING JOISTS ATTACHED TO PARALLEL RAFTER (HEEL JOINT), F.N. PER 2308.7.3.1 COLLAR TIE TO RAFTER, F.N. RAFTER/TRUSS TO TOP PLATE, T.N. PER TABLE 2308.7.3.5 RAFTERS TO RIDGE VALLEY OR HIP; OR FATER TO 2" RIDGE BEAM TOENAIL						
NINST CONCRETE OR DF SILLS, TREATED WITH SED ENVIRONMENT. ESISTANT CONNECTORS.)	1.75 X LSL AND LVLHU, HUS, OR WPU2.69 X PSL AND LVLHU OR HWU3.5 X PSL AND LVLHHUS OR HWU5.25 X PSL AND LVLHHUS OR HWU7 X PSL AND LVLHHUS OR HWU	ENDNAIL STUD TO STUD (NOT AT BRACED WALL PANELS) STUD TO STUD AT INTERSECTING WALL CORNERS (BRACED WALL) BUILT-UP HEADER (2" TO 2"), FN EA. EDGE CONT. HEADER TO STUD T N						
D LUMBER TREATED WITH VANIZED PER	AT BEAM HANGER CALLOUTS, IE HGUS OR HU BEAMS, THE CALLOUT IS ABBREVIATED. THE HANGER WIDTH MAY BE OMITTED TO ALLOW FLEXIBILITY IN ORDERING. EXAMPLE: 2.69 PSL THE CALLOUT MAY READ HGUS12. AN HGUS2.75/12 OR HGUS412 (WITH FILLERS) ARE APPLICABLE. WHERE HANGERS OFFER (MIN) OR (MAX). NAIL TO APPLY (MAX) LOADS.	TOP PLATE TO TOP PLATE TOP PLATE TO TOP PLATE, AT END JOINTS (EACH SIDE OF END JOINT), FACENAIL 24" MIN LAP SPLICE EA. SIDE BOTTOM PLATE TO JOIST, RIM, OR BLKG, FACENAIL						
D LUMBER TREATED WITH)3, 304, 305,	^{323.} WHERE SHEARWALL LENGTHS ARE SPECIFIED ON THE PLANS, THE LENGTH SHOWN IS A MINIMUM DIMENSION. THE SHEARWALL MAY BE LENGTHENED FOR CONSTRUCTION PURPOSES, BUT SHALL NOT BE REDUCED UNLESS OTHERWISE NOTED. ALL ENGINEERED WOOD PANEL SHEAR (PLYWOOD OR OSB) SHALL BE BLOCKED.	UNBRACED WALL: 16" o.c. FN UNBRACED WALL: 12" o.c. FN BRACED WALL: 16" o.c. FN STUD TO TOP OR BOTTOM PLATE TOENAIL 4-8d Box 4x10d Box 4-8d Com 3-16d Box 4-3"x0 131" na						
OR WET ENVIRONMENT, EATED LUMBER SHALL BE	 ^{324.} THE FOLLOWING HOLES IN SHEARWALLS ARE ALLOWED: A) APPROXIMATELY SQUARE HOLES NOTCHED, PUNCHED, OR CUT THAT ARE LESS THAN 25 SQ. INCHES B) APPROXIMATELY SQUARE HOLES CLEAN CUT OR BORED IN SHEARWALLS THAT ARE LESS THAN 64 SQ. INCHES (ONE HOLE DED 4) OF SHEARWALLS) 	ENDNAIL TOP PLATES, LAPS AT CORNERS AND INTERSECTION, F.N. 1" BRACE TO EACH STUD AND PLATE, F.N. 1"x6" SHEATHING TO EACH BEARING, F.N. 1"x8" SHEATHING AND WIDER TO EACH BEARING, F.N.	3-16d Box, 2-16d Com, 3-10d Box, 3-3"x0.131" nail 2-16d Com, 3-10d box, 3-3" x 0.131" nai 3-8d Box, 2-8d Com, 2-10d Box, 2-3" x 0.131" nai 3-8d Box, 2-8d Com, 2-10d Box, 2-3" x 0.131" nai 4-8d box, 4-1.75" 16 Gage staples					
THE WALL FRAMING.	 LESS THAN 64 SQ. INCHES (ONE HOLE PER 4' OF SHEARWALL.) C) APPROXIMATELY SQUARE HOLES, LESS THAN 64 SQ. INCHES (ONE HOLE PER 8' OF SHEARWALL) WITH ALL EDGES BLOCKED & EDGE NAILED. D) HOLES INDIVIDUALLY APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD. 325. STUDS SHALL BE SPACED @ 16" O/C MAX. UNLESS OTHERWISE SPECIFIED. USE STUD GRADE 	JOIST TO SILL, TOP PLATE, OR GIRDER, T.N. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER 8d E 1"x6" SUBFLOOR OR LESS TO EACH JOIST, F.N. 2" SUBFLOOR TO JOIST OR GIRDER, F.N. or BLIND 2" PLANKS (PLANK & BEAM - FLOOR & ROOF), FACENAIL & EACH BEARING BUILT-LIP GIRDERS AND BEAMS. 2" LUMBER LAYERS	4-8d box, 3-8d Com, 3-10d Box, 3-3" x 0.131" nai 5ox @ 4" o.c. TN OR 8d Com, 10d Box, 3" x 0.131" nails, 3" 14 ga 2-1.75" Gage Staples					
.O. APPROVALS. CC	326. ALL FINISHES, WATERPROOFING, DRAINAGE, AND FIRE-RELATED ELEMENTS ARE BY THE ARCHITECT OF RECORD AND ARE REQUIRED EVEN THOUGH THEY MAY NOT BE SHOWN ON THE STRUCTURAL PLANS AND DETAILS.	32" o.c. FN Top & BTTM STAGGERED ON OPPOSITE SIDES 24" o.c. FN Top & BTTM ENDS & SPLICES, FN LEDGER SUPPORTING JOISTS/RAFTERS	10d Box, 3"x0.131" n 2-20d Com, 3-10d Box, 3-3"x0.131" nai 4-16d Box, 3-16d Com, 4-10d Box, 4-3"X0.13					
OOD MEMBERS ATION.	4. ICC-ES AND NER APPROVALS 400. PLYWOOD AND OSB PANELS: APA PLYWOOD & OSBESR-2586 FULL REPORTS FOUND AT HTTP://WWW.ICC-ES.ORG	JOIST TO BAND OR RIM JOIST, END NAIL BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS EACH END, T.N. WOOD STRUCT. PANELS, SUBFLOOR, ROOF AND INTERIOR WALL SHTNG TO FRMG AN PARTICLEBOARD WALL SHEATHING TO FRAMING	3-16d Com, 4-10d Box, 4-3"X0.13 2-8d Com, 2-10d box, 2-3" x 0.131" nai D EDGES INTERMEDIATE (IN) SUPPORTS (IN)					
ATES & BLOCKING: OR BETTER ETTER TER	401. JOISTS AND RAFTERS AND BEAMS: TRUS-JOIST TJI JOISTS AND PSL, LSL, & LVLICC-ES ESR-1387, 1153, BOISE CASCADE BCI JOISTS, VERSA-LAM, & VERSA-STRANDICC-ESR-1040, 1336 LOUISIANA PACIFIC JOISTS & BEAMSESR-1305, 2403 ROSEBURG JOISTS & BEAMSESR-1210, 1251 CLULLAM BEAMS _ ESP 1940	$\frac{3}{8}$ $\frac{16}{2}$ $16d$ Com or deformed; or $2\frac{3}{8}$ "x.113" nail (subfloor afd wall) $\frac{3}{8}$ $\frac{3}{2}$ " $\frac{16}{4}$ Com or deformed (roof) or $2\frac{3}{8}$ " x.113" nail (roof) $\frac{3}{8}$ " $\frac{1}{4}$ " 16 Ga Staple, $\frac{7}{16}$ " crown (subfloor and wall) $2\frac{3}{8}$ " x.113"x.266" head nail (roof) $1\frac{3}{4}$ " $1\frac{3}{4}$ " 16 Ga Staple, $\frac{7}{16}$ " crown (roof) $8d$ Com or deformed (subfloor and wall)	6 12 6 ^e 6 ^e 4 8 3 ^f 3 ^f 3 ^f 3 ^f 3 ^f 3 ^f 6 12					
TER OR #1	 PACIFIC WOOD TECH - ESR 2909 402. WOOD CONNECTORS: SIMPSON CONNECTORSICC-ES ESR #S 1161, 1622, 1866, 2105, 2203, 2236, 2320, 2549, 2551, 2552, 2553, 2330, 2554, 2555, 2604, 2605, 2606, 2607, 2608, 2611, 2613, 2614, 2615, 2616, 2877, 2020, 3046 	$\frac{19}{32}$ "- $\frac{3}{4}$ " 8d Com or deformed (roof) or $2\frac{3}{8}$ " x.113" nail (roof) ^d $2\frac{3}{8}$ " x.113"x.266" head nail, 2"16 Gage staple, $\frac{7}{16}$ " crown $\frac{7}{8}$ "-1 $\frac{1}{4}$ " 10d Com or (3"x0.148"); or deformed ($2\frac{1}{2}$ x.131"x.281 head) OTHER EXTERIOR WALL SHEATHING (FIBERBOARD) b 11" x0.120", galvapized roofing pail ($\frac{7}{4}$ " head dia) or $1\frac{1}{4}$ " 16 Ga Staple w/ $\frac{7}{4}$ " or 1" or 1" or 1"	6 6 4 8 6 12 6 12 cordance with this schedule and the cordance with this schedule, the schedule, the schedule and the cordance with this schedule and the cor					
G CODES, HOLES HE CODE OUT ENGINEERING	IAPMO ER-112, 130, 143, 192, 262 USP LUMBER CONNECTORSICC-ES ESR #S 1178, 1280, 1575, 1702, 1781, 1881, 1970, 2104, 2685, 1831, 1465, 2761, 2787, IAPMO ER-200 QUICK DRIVE WOOD SCREWSICC-ES ESR-1472	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}$	Town 3 6 rown 3 6 G 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 6 12 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 9<					
ECTANGULAR HEN NOTCHED OR HOUT MANUFACTURER BELOW:	SIMPSON EPOXY-TIE HIGH STRENGTH EPOXY (SET-XP)ICC-ES ESR-1772, 2508. SIMPSON WEDGE-ALL (WA) WEDGE ANCHORSICC-ES ES-1771 SIMPSON TITEN HDICC-ESR-1056, 2713 SIMPSON SHOT PINS ICC-ES ESR-2138 HILTI X-DN. X-ZF, X-CF SHOT PINSICC-ES ER-1663, 1752, 2269	$\frac{1}{8}$ "-1"8d COMMON (2 $\frac{1}{2}$ "x0.131"); or deformed (2"x0.113"); or deformed (2"x0.120") $1\frac{1}{8}$ "-1 $\frac{1}{4}$ "10d COMMON (3"x0.148"); or deformed (2 $\frac{1}{2}$ "x0.131"); or deformed (2 $\frac{1}{2}$ "x0.120")PANEL SIDING TO FRAMING $\frac{1}{2}$ " & LESS6d corrosion-resistant siding (1 $\frac{7}{8}$ "x.106"); or 6d corrosion-resistant (2"x.099") $\frac{5}{8}$ "8d corrosion-resistant siding (2 $\frac{2}{8}$ "x0.128"); or 8d corrosion-resistant casing (2 $\frac{1}{2}$ "x0.1	0 12 Exposure C. Spacing exceeding 6 inches 6 12 supports shall be permitted where the fa WC NDS. e. Fastening is only permitted where the 6 12 6 12 8 12 9 9 113") 12					
ANYWHERE, THE SPAN IN VL BEAM, TRATED LOADS.	5. NAILING & FASTENING 500. 16D NAILS AS SHOWN ON THE DETAILS MAY BE COMMON, BOX, OR SINKER NAILS (0.135" MIN. DIA)	INTERIOR PANELING $\frac{1}{4}$ 4d casing ($1\frac{1}{2}$ "x0.080"); or 4d finish ($1\frac{1}{2}$ "x0.072") $\frac{3}{8}$ 6d casing (2"x0.099"); or 6d finish (2"x.092") - (Panel supports at 24 inches)	6 12 6 12					
M THE ENGINEER.	 501. AS AN ALTERNATE TO THE COMMON AND BOX NAILS SPECIFIED IN THE STRUCTURAL PLANS, THE FOLLOWING "CUTLER" GUN NAILS (OR EQUAL) ARE ACCEPTABLE ALTERNATIVES. 502. ALTERNATE NAILING FOR ROOF SHEATHING: 							
RDS THE TAPERED PPROVAL IN	 8D 2 ¹/₂ " X 0.135 WIRE BARBED NAILS BY CUTLER OR EQUAL. 503. ALTERNATE NAILING FOR FLOOR SHEATHING: #8 X 2" SELF SETTING WOOD SCREWS, OR 8D 2 ¹/₂ " X 0.135 OR 0.148 SCREW SHANK FLOOR NAILS BY CUTLER OR EQUAL 	7. DESIGN CRITERIA 8. 700. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE AND 2022 CALIFORNIA RESIDENTIAL CODE. 80	. STATEMENT OF SPECIAL IN 0. RETROFIT ANCHOR BOLTS FOR MISPLACED HOLDOW ALL-THREAD ROD AND SIMPSON SET-XP EPOXY REC					
S4 FOR NOTCHING	504. SHEAR PANELS WHERE 8D COMMON NAILS ARE SPECIFIED: 10D 2 ¹ / ₂ " X 0.148" WIRE BARBED NAILS BY CUTLER OR EQUAL	701. SEISMIC DESIGN CRITERIA: SOIL BEARING VALUE 1,500 psf SITE CLASS D (Default)	SPECIAL INSPECTION. (NO SPECIAL INSPECTION IS F FOR RETROFIT ANCHOR BOLTS OR TITEN HD'S WITH HOLDOWN ATTACHED.)					
OPPED BEAM R. PROVIDE DOUBLE	SIZE OF STANDARD WIRE SIZE PENETRATION NAIL LENGTH GAUGE (INCHES) REQUIRED	SEISMIC DESIGN CATEGORY D 80 RISK CATEGORY II SEISMIC IMPORTANCE FACTOR 1 Ss 1.50 S1 0.50	1. PER CBC 1705.3 SPECIAL INSPECTION IS NOT REQUIR NON-STRUCTURAL SLABS ON GRADE NOR FOR CON FOOTINGS THAT SUPPORT 3 STORIES ABOVE GRAD					
OPPED BEAM	6D 2" 12 0.099 1 " 8D 2 " 11 0.113 1 " 10D 3" 10 0.128 1 "	SDS 1.20 SD1 0.60 Cs 0.185 B 6.5	2. PER CBC 1705.11 SPECIAL INSPECTION IS NOT REQUI SEISMIC COMPONENTS FOR DETTACHED ONE- AND TWO-FAMILY DWELLINGS NOT EXCEEDING 2 STORIE GRADE.					
DER OR PER PLAN. M OR HEADER F BEARING POINT.	12D 3" 10 0.128 1 " 16D 3 " 10 0.135 1 " 16D SINKER 3" 9 0.148 1 " COMMON NAILS	Design Base Shear 0.168W 702. WIND DESIGN CRITERIA : WIND SPEED (V-ult) 124 mph RISK CATEGORY	. SOILS REPORT					
DRAWINGS	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	EXPOSURE COEF 0.18 AF	30IL REPORT IS REQUIRED FOR PROPOSED DETACHED REA EXCEEDING 750 sq.ft. THE GEOTECHNICAL INVESTIG NDUCTED IN ACCORDANCE WITH SECTION 1803 2 AND					
ER ARCHITECTURAL NS. TIONAL INFORMATION.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	703. DESIGN LOADING (Worst Case): AC VAULTED ROOF DL 28 psf ROOF w/ CEILING DL 29 psf	i. THE GEOTECHNICAL ENGINEER OF RECORD SHA PROVED PLANS FOR GENERAL CONFORMANCE WITH T					
INIMIZE ROOF		PORCH DL36 psfIPORCH LL20 psfOTTRELLIS DL6 psfITRELLIS LL10 psfRE	HERWISE, AN ALTERNATE FOUNDATION PLAN DESIGNE GISTERED CIVIL ENGINEER IS REQUIRED.					

SES TO TOP PLATE OR OTHER FRAMING, T.N. AT WALL TOP PLATE TO RAFTER OR TRUSS, T.N. AT WALL TOP PLATE TO RAFTER OR TRUSS, E.N. RAFTER, LAPS OVER PARTITIONS, F.N. PER 2308.7.3. ER (HEEL JOINT), F.N. PER 2308.7.3.1			4-8d Box, 3-8d (4-8d box, 3- 1 3-16d 3-16d 3-10c 3-10d Com, 3-1	 Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples 2-8d Com, 2-3" x 0.131" nails, 2-3" 14 gage staples 2-16d Com, 3-3" x 0.131" nails, 3-3" 14 gage staples 16d Com, 3"x.131" nails, 3"x14 gage staples @ 6" o.c 8d Com, 3-10d box, 3-3"x.131 nails, 3-3" 14 gage staples Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples Com, 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples 6d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples 	ATH STU re + planning HSTUDIO.COM		
() ERS (BRACED WALL) CH SIDE OF END JOINT), FACENAIL	4 16d Com 16d Cor 16d C	-16d boy @ 24" o m @ 16" Com @ 1 8-16d	k, 3-10d Com, 3-1 2-16d Com, 3-16d .c. FN OR 2-10d R o.c. FN OR 16d E 6" o.c. FN OR 10d Com, 12-16d Box	6d or 4-10d box, 4-3" x 0.131" nails, 4-3" 14 gage staples box, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples box, 3" x 0.131" nails, 3-3" 14 gage staples @ 16" o.c. FN Box, 3" x 0.131" nails, 3-3" 14 gage staples @ 12" o.c. FN 16d Com @ 16" o.c OR 16d Box @ 12" o.c. 4-8d Com, 4-10d Box, 5-8d box d Box, 3" x 0.131" nails, 3" 14 gage staples @ 12 o.c. FN , 12-10d Box, 12-3" x 0.131" nails, 12-3" 14 gage staples	SIGNP/ architectur	DESIGNPATH	
			0.46	16d Com 16d Box, 3" x 0.131" nails, 3" 14 gage staples			
ECTION, F.N. IG, F.N. PLATE, SILL OR OTHER ND ACENAIL & EACH BEARING	4- 8d Box @ 4	-8d Box, 3	4x10d Box, 4-8d 0 3-16d Box, 2-16d 0 2-16d C 3-8d Box, 2-8d C 3 4-8d box, 3-8d C N OR 8d Com, 100	Com, 3-16d Box, 4-3"x0.131" nails, 4-3" 14 gage staples Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples Com, 3-10d box, 3-3" x 0.131" nails, 3-3" 14 gage staples Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples Com, 2-10d Box, 2-3" x 0.131" nails, 2-3" 14 gage staples Com, 3-10d Box, 2-3" x 0.131" nails, 3-3" 14 gage staples Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples Com, 3-10d Box, 3-3" x 0.131" nails, 3-3" 14 gage staples Com, 3-10d Box, 3-10d Box Com, 3-10d Box, 2-16d Com Com	BY USING THESE PERMIT DOCUMENTS, THE RECIPIE ACCEPTS AND VOLUNTAR FOLLOWING CONDITIONS: 1. THE USE OF THIS INFO RESTRICTED TO THE ORIG IT WAS PREPARED FOR T ACCESSORY DWELLING UN THE CITY OF SANTA ANA SET OF STANDARDIZED A SPECIFICATIONS APPROVE ANA BUILDING DEPARTME CHANGE OVER TIME AND FULL COMPLIANCE UNDER EFFECT AT THE TIME OF THIS DOES NOT ELIMINAT RECIPIENT'S RESPONSIBILI ALL INFORMATION RELEVA WORK AND RESPONSIBILIT DESIGN PATH STUDIO SH.	READY CONSTRUCTION NT ACKNOWLEDGES, ILY AFFIRMS THE ORMATION IS SINAL PROJECT FOR WHICH HE PERMIT READY IIT (ADU) PROGRAM FOR ONLY. THIS IS A LIMITED DU PLANS AND D BY THE CITY OF SANTA NT. BUILDING CODES DO RECIPIENT SHALL ENSURE ALL CODES THEN IN THE SUBJECT PERMIT. E OR REDUCE THE TY TO VERIFY ANY AND NT TO THE RECIPIENT'S TY ON THIS PROJECT. ALL NOT BE RESPONSIBLE	
ACENAIL & EACH BEARING YERS IN OPPOSITE SIDES R TRUSS EACH END, T.N. D INTERIOR WALL SHTNG TO FRM NG	G AND E	EDGES (IN) 6	2-20d 4-16d Box, 3 3 2-8d C INTERMEDIATE SUPPORTS (IN) 12	20d Com 10d Box, 3"x0.131" nails, 3" 14 gage staples Com, 3-10d Box, 3-3"x0.131" nails, 3-3" 14 gage staples -16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES -16d Com, 4-10d Box, 4-3"X0.131, 4-3" 14ga. STAPLES Com, 2-10d box, 2-3" x 0.131" nails, 2-3" 14 gage staples	FOR TRANSLATION ERROF CONSTRUCTION DOCUMEN EXPIRED OR IS REVOKED 2. THE RECIPIENT RECOG THAT THE USE OF THIS I THEIR SOLE RISK AND WI LEGAL EXPOSURE TO DES WARRANTIES OF ANY NA' OR IMPLIED, SHALL ATTA AND THE INFORMATION C USE, REUSE, OR ALTERA' DOCUMENTS BY THE REC WILL BE AT THE RECIPIEN LEGAL RESPONSIBILITY. F RECIPIENT WILL, TO THE PERMITTED BY LAW, DEFE DESIGN PATH STUDIO AN HARMLESS FROM ANY AN	ALL NOT BE RESPONSIBLE S. DO NOT USE THESE TS IF THE PERMIT HAS AT ALL. NIZES AND ACKNOWLEDGES NFORMATION WILL BE AT THOUT ANY LIABILITY OR SIGN PATH STUDIO. NO TURE, WHETHER EXPRESS CH TO THESE DOCUMENTS ONTAINED THEREON. ANY TION OF THESE PIENT OR BY OTHERS NT'S RISK AND FULL URTHERMORE, THE FULLEST EXTENT CND, INDEMNIFY AND HOLD D ITS ARCHITECTS ID ALL CLAIMS, SUITS,	
I (subfloor and wall) 6 3" nail (roof) nd wall) 4 3 ^f 3 ^f 3 ^f 6		12 6 ^e 8 3 ^f 12	12 6 8 FOOTNOTES: 3 a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing. 12 b. Specific a shell be 6 inches on particleboard diaphragms and shear on the address and 12 inches on		HARMLESS FROM ANY AND ALL CLAIMS, SUITS, LIABILITY, DEMANDS, JUDGMENTS, OR COSTS ARISING OUT OF OR RESULTING THERE FROM ANY USE OF THESE CONSTRUCTION DOCUMENTS FOR OR ON ACCOUNT OF ANY INJURY, DEATH, DAMAGE OR LOSS TO PERSONS OR PROPERTY, DIRECT OR CONSEQUENTIAL DAMAGES IN ANY AMOUNT. THIS INDEMNITY DOES NOT APPLY TO THE SOLE NEGLIGENCE OR WILLFUL MISCONDUCT OF DESIGN PATH STUDIO OR ITS ARCHITECTS. 3. THE DESIGNS REPRESENTED BY THESE PLANS		
6 6 staple, $\frac{7}{16}$ " crown 4 $2\frac{1}{2}$ x.131"x.281 head) 6 ARD) 6 head dia) or $1\frac{1}{4}$ " 16 Ga Staple w/ $\frac{7}{16}$ " or 1" crown 3 head dia) or $1\frac{1}{2}$ " 16 Ga Staple w/ $\frac{7}{16}$ " or 1" crown 3 UBFLOOR UNDERLAYMENT TO FRAMING 6 ed (2"x0.113"); or deformed (2"x0.120") 6 ed (2"x0.113"); or deformed (2"x0.120") 6 of (2 $\frac{1}{2}$ "x0.131"); or deformed (2 $\frac{1}{2}$ "x0.120") 6 of (2 $\frac{1}{2}$ "x0.131"); or deformed (2 $\frac{1}{2}$ "x0.120") 6 of (2 $\frac{1}{2}$ "x0.131"); or deformed (2 $\frac{1}{2}$ "x0.120") 6 of (2 $\frac{1}{2}$ "x0.131"); or deformed (2 $\frac{1}{2}$ "x0.113") 6			6 8 12 6 6 6 12 12 12 12	 center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked). c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail. d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667. e. Tabulated fastener requirements apply where the ultimate design wind speed is less than 140 mph. For wood structural panel roof sheathing attached to gable-end roof framing and to intermediate supports within 48 inches of roof edges and ridges, nails shall be spaced at 4 inches on center where the ultimate design wind speed is genere than 130 mph in Exposure B or greater than 110 mph in Exposure C. Spacing exceeding 6 inches on center at intermediate supports shall be permitted where the fastening is designed per the AWC NDS. 	ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION. 4. IF THE RECIPIENT DOES NOT AGREE WITH THE ABOVE CONDITIONS, DO NOT PROCEED WITH CONSTRUCTION OF AN ADU OR OTHER IMPROVEMENT UNDER THESE PLANS AT ALL. PROVEMENT UNDER THESE PLANS AT ALL. project Santa Ana ADU		
			12 12	e. Fastening is only permitted where the ultimate design wind speed is less than or equal to 110 mph g. Nails and staples are carbon steel meeting the specifications of ASTM F1667. Connections using nails and staples of other materials, such as stainless steel, shall be designed by acceptable engineering practice or approved under Section 104.11.			
'x0.072") .092") - (Panel supports at 24 inches)	8 5	6 6 TAT	12 12	OF SPECIAL INSPECTIONS	address revisions		
8. STATCODE AND 2022 CALIFORNIA800. RETROFIT ALL-THRE SPECIAL I FOR RETR HOLDOWI1,500 psf D (Default) D801. PER CBC 1 NON-STR FOOTING111801. PER CBC 1 NON-STR FOOTING1.50 0.50 1.50 0.50 1.20 0.60 0.185 6.5 0.168W802. PER CBC 1 SEISMIC (TWO-FAW GRADE.124 mph I C 0.18 13 psf9. SOILS CONDUCTED IN ACCORDANCE			ANCHOR BOLTS AD ROD AND S NSPECTION. (N ROFIT ANCHOR NATTACHED.) 705.3 SPECIAL UCTURAL SLAB S THAT SUPPOR 705.11 SPECIAL COMPONENTS I ILY DWELLINGS S REPOR IS REQUIRED IN NG 750 sq.ft. TH ACCORDANCE WITH SECTION	SF SFECIAL INSPECTIONS SFOR MISPLACED HOLDOWNS WITH IMPSON SET-XP EPOXY REQUIRE IO SPECIAL INSPECTION IS REQUIRED BOLTS OR TITEN HD'S WITHOUT A INSPECTION IS NOT REQUIRED FOR S ON GRADE NOR FOR CONCRETE RT 3 STORIES ABOVE GRADE OR LESS. INSPECTION IS NOT REQUIRED FOR FOR DETTACHED ONE- AND S NOT EXCEEDING 2 STORIES ABOVE RT FOR PROPOSED DETACHED ADU WITH BUILDING E GEOTECHNICAL INVESTIGATIONS SHALL BE S WITH SECTION 1803.2 AND REPORTED IN 18.3.6, CBC.	Zurx description General Structural Notes date MAY 2023 project no. 2022_SANTA_ANA_ADU drawn by DESIGN PATH STUDIO		
LL 20 psf H LL 20 psf LIS LL 10 psf	i. Approv Otherw Registe	. THE G ED PLA /ISE, AN ERED C	EOTECHNICAL NS FOR GENEF NALTERNATE F IVIL ENGINEER	ENGINEER OF RECORD SHALL REVIEW THE CITY RAL CONFORMANCE WITH THE SOIL REPORT; OUNDATION PLAN DESIGNED BY A CALIFORNIA IS REQUIRED.	sheet no.	51	

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