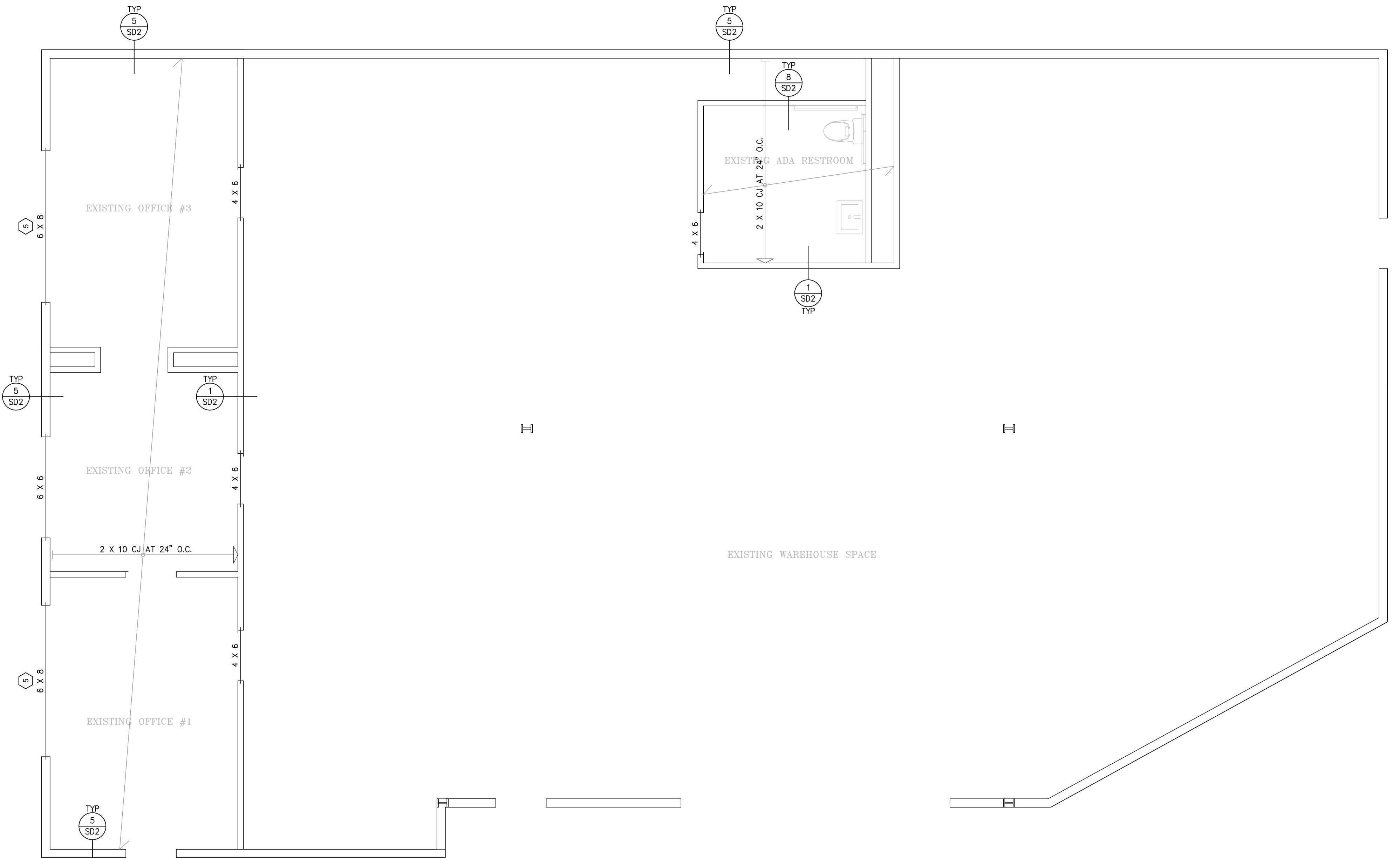
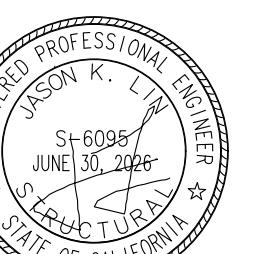
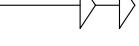
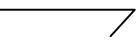
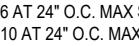
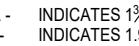
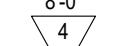
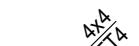
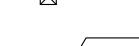
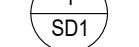




<b>Q: FASTENING SCHEDULE (PER SECTION 2304.10.2, TABLE 2304.10.2)</b>					<b>K: WOOD CONNECTORS</b>					<b>D: CONCRETE</b>					<b>A: GENERAL</b>					<b>DESIGN CRITERIA</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
<table border="1"> <tr><td>CONNECTION</td><td>FASTENING<sup>A</sup></td><td>LOCATION</td></tr> <tr><td>1. JOIST TO SILL OR GIRDER</td><td>3-8d COMMON (3/8" X 0.131") 3-3" X 0.131" NAILS</td><td>TOE NAIL</td></tr> <tr><td>2. BRIDGING TO JOIST</td><td>2-8d COMMON (3/8" X 0.131") 3-3" X 0.131" NAILS</td><td>TOE NAIL EACH END</td></tr> <tr><td>3. 1" X 6" SUBFLOOR OR LESS TO EACH JOIST</td><td>2-8d COMMON (3/8" X 0.131")</td><td>FACE NAIL</td></tr> <tr><td>4. WIDER THAN 1" X 6" SUBFLOOR OR TO EACH JOIST</td><td>2-8d COMMON (3/8" X 0.131")</td><td>FACE NAIL</td></tr> <tr><td>5. 2" SUBFLOOR TO JOIST OR GIRDER</td><td>2-16d COMMON (3/8" X 0.162")</td><td>BLIND AND FACE NAIL</td></tr> <tr><td>6. SOLE PLATE TO JOIST OR BLOCKING</td><td>16d (3/8" X 0.131") AT 16" O.C. 3" X 0.131" NAILS AT 8" O.C.</td><td>TYPICAL FACE NAIL</td></tr> <tr><td>SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL</td><td>16d (3/8" X 0.131") AT 16" O.C. 3" X 0.131" NAILS AT 16"</td><td>BRACED WALL PANELS</td></tr> <tr><td>7. TOP PLATE TO STUD</td><td>2-8d (3/8" X 0.131" X 0.162")</td><td>END NAILS</td></tr> <tr><td>8. STUDS TO SOLE PLATE</td><td>4-8d COMMON (3/8" X 0.131") 4-3" X 0.131" NAILS</td><td>TOE NAIL</td></tr> <tr><td>9. STUDS TO TOP PLATE</td><td>2-16d COMMON (3/8" X 0.162") 3" X 0.131" NAILS</td><td>END NAILS</td></tr> <tr><td>10. DOUBLE STUDS</td><td>16d (3/8" X 0.131") AT 24" O.C. 3" X 0.131" NAILS AT 8" O.C.</td><td>FACE NAILS</td></tr> <tr><td>11. DOUBLE TOP PLATES</td><td>16d (3/8" X 0.131") AT 16" O.C. 3" X 0.131" NAIL AT 12" O.C.</td><td>TYPICAL FACE NAIL</td></tr> <tr><td>DOUBLE TOP PLATES</td><td>8-16d COMMON (3/8" X 0.162") 3-3" X 0.131" NAILS</td><td>LAP SPLICE</td></tr> <tr><td>12. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE</td><td>2-8d COMMON (3/8" X 0.131")</td><td>TOE NAIL</td></tr> <tr><td>13. RIM JOIST TO TOP PLATE</td><td>8d (3/8" X 0.131") AT 6" O.C. 3" X 0.131" NAIL AT 6" O.C.</td><td>TOE NAIL</td></tr> <tr><td>14. TOP PLATES, LAPS AND INTERSECTIONS</td><td>2-16d COMMON (3/8" X 0.162")</td><td>FACE NAIL</td></tr> <tr><td>15. CONTINUOUS HEADER, TWO PIECES</td><td>16d COMMON (3/8" X 0.162")</td><td>16" O.C. ALONG EDGE</td></tr> <tr><td>16. CEILING JOISTS TO PLATE</td><td>4-8d COMMON (3/8" X 0.131")</td><td>TOE NAIL</td></tr> <tr><td>17. CONTINUOUS HEADER TO STUD</td><td>4-8d COMMON (3/8" X 0.131")</td><td>TOE NAIL</td></tr> <tr><td>18. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)</td><td>3-16d COMMON (3/8" X 0.162") MINIMUM, TABLE 2308.10.4.1</td><td>FACE NAIL</td></tr> <tr><td>19. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)</td><td>2-16d COMMON (3/8" X 0.162") MINIMUM, TABLE 2308.10.4.1</td><td>FACE NAIL</td></tr> <tr><td>20. Rafter to Plate (See Section 2308.10.1, Table 2308.10.1)</td><td>3-16d COMMON (3/8" X 0.162")</td><td>TOE NAIL</td></tr> <tr><td>21. 1" X 8" SHEATHING TO EACH BEARING</td><td>3-8d COMMON (3/8" X 0.131")</td><td>FACE NAIL</td></tr> <tr><td>22. WIDER THAN 1" X 8" SHEATHING TO EACH BEARING</td><td>3-8d COMMON (3/8" X 0.131")</td><td>FACE NAIL</td></tr> <tr><td>23. BUILT-UP CORNER STUDS</td><td>16d COMMON (3/8" X 0.162")</td><td>24" O.C. 16" O.C.</td></tr> <tr><td>24. BUILT-UP GIRDERS AND BEAMS</td><td>20d COMMON (4" X 0.192") 3" X 0.131" NAIL AT 24" O.C.</td><td>FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES</td></tr> <tr><td>25. 2" PLANKS</td><td>16d COMMON (3/8" X 0.162")</td><td>AT EACH BEARING</td></tr> <tr><td>26. COLLAR TIE TO RAFTER</td><td>3-10d COMMON (3" X 0.148")</td><td>FACE NAIL</td></tr> <tr><td>27. JACK RAFTER TO HIP</td><td>4-10d COMMON (3" X 0.148") 3-3" X 0.131" NAILS</td><td>TOE NAIL</td></tr> <tr><td>28. ROOF RAFTER TO 2-BY RIDGE BEAM</td><td>2-16d COMMON (3/8" X 0.162")</td><td>TOE NAIL</td></tr> <tr><td>29. JOIST TO BAND JOIST</td><td>3-16d COMMON (3/8" X 0.162")</td><td>FACE NAIL</td></tr> <tr><td>30. LEDGER STRIP</td><td>3-16d COMMON (3/8" X 0.162") 4-3" X 0.131" NAILS</td><td>FACE NAIL</td></tr> <tr><td>32. PANEL SIDING (TO FRAMING)</td><td>2" OR LESS 8d 8d</td><td>CONCRETE WITH FC OVER 2600 PSI CAST-IN-PLACE DRILLED PILES OR CAISONS FIELD WELDING EPOXY WELDING OF REINFORCING STEEL HIGH STRENGTH BOLTING SHOTCRETE REINFORCEMENT AND TENSION PLACEMENT IN CONCRETE WITH FC OVER 2500 PSI TENSION STRESSING AND GROUTING TITER HD SCREW ANCHORS FASTENERS OF THE SEISMIC FORCE-RESISTING SYSTEM WHERE ITS SPACING IS 4" O.C.</td></tr> <tr><td>33. FIBERBOARD SHEATHING</td><td>1/2"</td><td>NO. 11 GAGE ROOFING NAIL H 60 COMMON NAIL (2" X 0.147") NO. 11 GAGE ROOFING NAIL 8d COMMON NAIL (3/8" X 0.131")</td></tr> <tr><td>34. INTERIOR PANELING</td><td>1/2" 8d</td><td>3-16d COMMON (3/8" X 0.162") 4d 8d</td></tr> <tr><td>FOR SI: 1 INCH = 25.4MM</td><td></td><td></td></tr> <tr><td colspan="5">A. COMMON OR BOX NAILS ARE NOT PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">B. NAILS SPACED 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 4 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND SHEATHING, USE 16D NAILS. FOR CORRUGATED SHEATHING WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">C. COMMON OR DEFORMED SHANK (6d/2" X 0.113", 8d/2" X 0.131", 10d/3" X 0.148").</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">D. COMMON (6d/2" X 0.113", 8d/2" X 0.131", 10d/3" X 0.148").</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">E. CORROSION-RESISTANT SIDING (6d/1/2" X 0.106", 8d/2" X 0.128") OR CASING (6d/2" X 0.099", 8d/2" X 0.113") NAIL AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">H. CORROSION-RESISTANT ROOFING NAILS 1/2" INCH DIAMETER HEAD AND 1/2" INCH LENGTH FOR 1/2" INCH SHEATHING.</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">J. ROOF SHEATHING (1/2" X 0.072") NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">K. PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">L. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2" X 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="5">N. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr><td colspan="10"><b>ABBREVIATIONS</b></td><td colspan="10"><b>B: SPECIAL INSPECTIONS</b></td><td colspan="10"><b>C: SUBGRADE AND FOUNDATION</b></td></tr> <tr> <td>AB</td><td>ANCHOR BOLT</td><td>FL</td><td>FLUSH</td><td>PTDF</td><td>PRESSURE TREATED</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>ADDL</td><td>ADDITIONAL</td><td>FLR</td><td>FLOOR</td><td>FACE BEAM</td><td>PLYWD</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>ADJ</td><td>ADJACENT</td><td>F.O.</td><td>F.O.W.</td><td>FRM</td><td>PPLYD</td><td colspan="5"></td><td 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HT</td><td>HEIGHT</td><td>REQT</td><td>REQUIREMENT</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>CANT</td><td>CANTER</td><td>HB</td><td>HOIST</td><td>RT</td><td>ROOF TRUSSES</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>CANTER</td><td>CANTER</td><td>HD</td><td>HOLD DOWN STRAP</td><td>SAF</td><td>SEE ARCHITECTURAL</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>CB</td><td>CEILING BEAM</td><td>HR</td><td>OR DEVICE</td><td>SCHD</td><td>SCHEDULE</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>CBC</td><td>CEILING BEAM</td><td>HRS</td><td>HEADER</td><td>SCHD OR SCH</td><td>SCHEDULE</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td 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WALL OR</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>D</td><td>DEEP, DEPTH</td><td>LSL</td><td>LAMINATED STRAND</td><td>T</td><td>SIMPLY SUPPORTED</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>DF</td><td>DOUGLAS FIR LARCH</td><td>LVL</td><td>LAMINATED VENEER</td><td>SYM</td><td>SYMMETRICAL</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>DIA</td><td>DIA</td><td>LUMBER</td><td>TOP</td><td>TOS</td><td>TOP OF SLAB</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>DIM</td><td>DIMENSION</td><td>MANUF</td><td>TOP OF</td><td>TOP OF</td><td>TOP OF STEEL</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>DJ</td><td>DECOUPLING</td><td>MANUF</td><td>TOP OF</td><td>TOP OF</td><td>TOP OF STEEL</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>DL</td><td>DEAD LOAD</td><td>MANUF</td><td>TOP OF</td><td>TOP OF</td><td>TOP OF STEEL</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>DT</td><td>DRAG TRUSS</td><td>MAX</td><td>MAXIMUM</td><td>TOP OF</td><td>TOP OF STEEL</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>DW</td><td>DRILLED WELDING</td><td>MIS</td><td>MINIMUM</td><td>TOP</td><td>TOP OF</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>E OR EXIST</td><td>EXISTING</td><td>MIS</td><td>MINIMUM</td><td>TOP</td><td>TOP OF</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td 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HEIGHT</td><td>PSL</td><td>PARALLEL</td><td>W</td><td>WEIGHT</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td></tr> <tr> <td>FJ</td><td>FLOOR JOIST</td><td>PT</td><td>POST TENSION</td><td>W/O</td><td>WITHOUT</td><td colspan="5"></td><td colspan="5"></td><td colspan="5"></td>&lt;td colspan="5</tr></table>					CONNECTION	FASTENING <sup>A</sup>	LOCATION	1. JOIST TO SILL OR GIRDER	3-8d COMMON (3/8" X 0.131") 3-3" X 0.131" NAILS	TOE NAIL	2. BRIDGING TO JOIST	2-8d COMMON (3/8" X 0.131") 3-3" X 0.131" NAILS	TOE NAIL EACH END	3. 1" X 6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (3/8" X 0.131")	FACE NAIL	4. WIDER THAN 1" X 6" SUBFLOOR OR TO EACH JOIST	2-8d COMMON (3/8" X 0.131")	FACE NAIL	5. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3/8" X 0.162")	BLIND AND FACE NAIL	6. SOLE PLATE TO JOIST OR BLOCKING	16d (3/8" X 0.131") AT 16" O.C. 3" X 0.131" NAILS AT 8" O.C.	TYPICAL FACE NAIL	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	16d (3/8" X 0.131") AT 16" O.C. 3" X 0.131" NAILS AT 16"	BRACED WALL PANELS	7. TOP PLATE TO STUD	2-8d (3/8" X 0.131" X 0.162")	END NAILS	8. STUDS TO SOLE PLATE	4-8d COMMON (3/8" X 0.131") 4-3" X 0.131" NAILS	TOE NAIL	9. STUDS TO TOP PLATE	2-16d COMMON (3/8" X 0.162") 3" X 0.131" NAILS	END NAILS	10. DOUBLE STUDS	16d (3/8" X 0.131") AT 24" O.C. 3" X 0.131" NAILS AT 8" O.C.	FACE NAILS	11. DOUBLE TOP PLATES	16d (3/8" X 0.131") AT 16" O.C. 3" X 0.131" NAIL AT 12" O.C.	TYPICAL FACE NAIL	DOUBLE TOP PLATES	8-16d COMMON (3/8" X 0.162") 3-3" X 0.131" NAILS	LAP SPLICE	12. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	2-8d COMMON (3/8" X 0.131")	TOE NAIL	13. RIM JOIST TO TOP PLATE	8d (3/8" X 0.131") AT 6" O.C. 3" X 0.131" NAIL AT 6" O.C.	TOE NAIL	14. TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON (3/8" X 0.162")	FACE NAIL	15. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3/8" X 0.162")	16" O.C. ALONG EDGE	16. CEILING JOISTS TO PLATE	4-8d COMMON (3/8" X 0.131")	TOE NAIL	17. CONTINUOUS HEADER TO STUD	4-8d COMMON (3/8" X 0.131")	TOE NAIL	18. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON (3/8" X 0.162") MINIMUM, TABLE 2308.10.4.1	FACE NAIL	19. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	2-16d COMMON (3/8" X 0.162") MINIMUM, TABLE 2308.10.4.1	FACE NAIL	20. Rafter to Plate (See Section 2308.10.1, Table 2308.10.1)	3-16d COMMON (3/8" X 0.162")	TOE NAIL	21. 1" X 8" SHEATHING TO EACH BEARING	3-8d COMMON (3/8" X 0.131")	FACE NAIL	22. WIDER THAN 1" X 8" SHEATHING TO EACH BEARING	3-8d COMMON (3/8" X 0.131")	FACE NAIL	23. BUILT-UP CORNER STUDS	16d COMMON (3/8" X 0.162")	24" O.C. 16" O.C.	24. BUILT-UP GIRDERS AND BEAMS	20d COMMON (4" X 0.192") 3" X 0.131" NAIL AT 24" O.C.	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES	25. 2" PLANKS	16d COMMON (3/8" X 0.162")	AT EACH BEARING	26. COLLAR TIE TO RAFTER	3-10d COMMON (3" X 0.148")	FACE NAIL	27. JACK RAFTER TO HIP	4-10d COMMON (3" X 0.148") 3-3" X 0.131" NAILS	TOE NAIL	28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON (3/8" X 0.162")	TOE NAIL	29. JOIST TO BAND JOIST	3-16d COMMON (3/8" X 0.162")	FACE NAIL	30. LEDGER STRIP	3-16d COMMON (3/8" X 0.162") 4-3" X 0.131" NAILS	FACE NAIL	32. PANEL SIDING (TO FRAMING)	2" OR LESS 8d 8d	CONCRETE WITH FC OVER 2600 PSI CAST-IN-PLACE DRILLED PILES OR CAISONS FIELD WELDING EPOXY WELDING OF REINFORCING STEEL HIGH STRENGTH BOLTING SHOTCRETE REINFORCEMENT AND TENSION PLACEMENT IN CONCRETE WITH FC OVER 2500 PSI TENSION STRESSING AND GROUTING TITER HD SCREW ANCHORS FASTENERS OF THE SEISMIC FORCE-RESISTING SYSTEM WHERE ITS SPACING IS 4" O.C.	33. FIBERBOARD SHEATHING	1/2"	NO. 11 GAGE ROOFING NAIL H 60 COMMON NAIL (2" X 0.147") NO. 11 GAGE ROOFING NAIL 8d COMMON NAIL (3/8" X 0.131")	34. INTERIOR PANELING	1/2" 8d	3-16d COMMON (3/8" X 0.162") 4d 8d	FOR SI: 1 INCH = 25.4MM			A. COMMON OR BOX NAILS ARE NOT PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED																				B. NAILS SPACED 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 4 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND SHEATHING, USE 16D NAILS. FOR CORRUGATED SHEATHING WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.																				C. COMMON OR DEFORMED SHANK (6d/2" X 0.113", 8d/2" X 0.131", 10d/3" X 0.148").																				D. COMMON (6d/2" X 0.113", 8d/2" X 0.131", 10d/3" X 0.148").																				E. CORROSION-RESISTANT SIDING (6d/1/2" X 0.106", 8d/2" X 0.128") OR CASING (6d/2" X 0.099", 8d/2" X 0.113") NAIL AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.																				H. CORROSION-RESISTANT ROOFING NAILS 1/2" INCH DIAMETER HEAD AND 1/2" INCH LENGTH FOR 1/2" INCH SHEATHING.																				J. ROOF SHEATHING (1/2" X 0.072") NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.																				K. PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.																				L. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS (2" X 0.113") ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.																				N. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING																				<b>ABBREVIATIONS</b>										<b>B: SPECIAL INSPECTIONS</b>										<b>C: SUBGRADE AND FOUNDATION</b>										AB	ANCHOR BOLT	FL	FLUSH	PTDF	PRESSURE TREATED																										ADDL	ADDITIONAL	FLR	FLOOR	FACE BEAM	PLYWD																										ADJ	ADJACENT	F.O.	F.O.W.	FRM	PPLYD																										ALT	ALTERNATE	FRG	FRAMING	WALL	PSI																										ARCH	ARCHITECTURAL	FTG	FOOTING	FOOT (FEET)	PSF																										B	BOTTLER	GA	GAGE	RAFT	POUND																										BLDG	BUILDING	GA	GALV	RAFTER	POUND/FT																										BLOK	BLOCKING	GL	GAUZE	RAFTER	POUND/IN																										BLW	BLW	GLC	GENERAL CONTRACTOR	RAIL	POUND/IN																										BM	BEAM	GET	GABLE END TRUSS	REINF	REINFORCEMENT																										BN	BOUNDARY NAILING	GLB	GLU LAM BEAM	REIN	REINFORCING																										BOT	BOTTOM	GT	GLULAM TRUSS	REIN	REINFORCING																										BRG	BEARING	H OR HT	HEIGHT	REQT	REQUIREMENT																										CANT	CANTER	HB	HOIST	RT	ROOF TRUSSES																										CANTER	CANTER	HD	HOLD DOWN STRAP	SAF	SEE ARCHITECTURAL																										CB	CEILING BEAM	HR	OR DEVICE	SCHD	SCHEDULE																										CBC	CEILING BEAM	HRS	HEADER	SCHD OR SCH	SCHEDULE																										BUILDCODE	BUILDCODE	HGR OR INGR	HORIZONTAL	SHR	SHED																										CJ	CEILING JOIST	HOR	HORIZONTAL	SHRT	SHED																										CL	CENTERLINE	HSS	HOLLOW STRUCTURE	SHTG	SHETING																										CLR	CLEAR	INT	INTERIOR	SIMP	SIMPSON																										CMU	CONCRETE	INV	INVERTED	SPCS	SPECIFICATIONS																										COL	COL	KIP 1000 LBS	STAGG	STAGED	STANDARD																										CONC	CONCRETE	KP	KING POST	STD	STANDARD																										CONC	CONCRETE	KD	KNUT	STUD	STEEL																										CONT	CONTINUOUS	LL	LIVE LOAD	STRUCT	STRUCTURAL																										CONT	CONTINUOUS	LSL	LAMINATED STRAND	SW	SHEAR WALL OR																										D	DEEP, DEPTH	LSL	LAMINATED STRAND	T	SIMPLY SUPPORTED																										DF	DOUGLAS FIR LARCH	LVL	LAMINATED VENEER	SYM	SYMMETRICAL																										DIA	DIA	LUMBER	TOP	TOS	TOP OF SLAB																										DIM	DIMENSION	MANUF	TOP OF	TOP OF	TOP OF STEEL																										DJ	DECOUPLING	MANUF	TOP OF	TOP OF	TOP OF STEEL																										DL	DEAD LOAD	MANUF	TOP OF	TOP OF	TOP OF STEEL																										DT	DRAG TRUSS	MAX	MAXIMUM	TOP OF	TOP OF STEEL																										DW	DRILLED WELDING	MIS	MINIMUM	TOP	TOP OF																										E OR EXIST	EXISTING	MIS	MINIMUM	TOP	TOP OF																										ELEV	EACH	MICROLAM	THK	THICK	THICK																										ENGR	DEEP, DEPTH	MIL	TRIMMER	TRIMMER	TRIMMER																										EQ	DEEP, DEPTH	TS	TRIMMER	TRIMMER	TRIMMER																										ES	EACH SIDE	NEW	TYPE	TYPICAL	TYPICAL																										EW	EACH WAY	NG	NATURAL OR	UNLESS NOTED	UNLESS NOTED																										EXT	EXTERIOR	NTS	NOT TO SCALE	V OR VERT	VERTICAL																										FD	FOUNDATION	O	OVER CENTER	VB	VALLEY BEAM																										FF	FLOOR	OO	OUTSIDE DIAMETER	W/L	WELL FIELD																										FG	FLOOR	PERP	PERPENDICULAR	WT	WASTE LINE																										FH	FULL HEIGHT	PSL	PARALLEL	W	WEIGHT																										FJ	FLOOR JOIST	PT	POST TENSION	W/O	WITHOUT															
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2. FLOOR FRAMING SHALL BE PER DETAIL 2/SD2 AND 3/SD2.																																																																																																													
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5. SHEAR PANEL MAY BE INSTALLED AT OTHER FACE OF WALL AS LONG AS MINIMUM LENGTHS AND MAXIMUM STUD SPACINGS ARE MET.																																																																																																													
6. CARRY ALL BEARING MEMBERS ON STUDS OR POSTS FROM UPPER LEVELS DOWN TO FIRST FLOOR OR BEAM BELOW. INSTALL SQUASH BLOCK AT THE INTERMEDIATE FLOOR LEVEL TO AT MINIMUM MATCH THE SIZE OF THE STUDS OR POSTS ABOVE.																																																																																																													
7. SHEAR WALLS CAN NOT BE USED AS PLUMBING WALLS UNLESS APPROVED BY JKL ENGINEERING IN WRITING.																																																																																																													
8. HOLES IN JOISTS SHALL NOT EXCEED THOSE ALLOWED BY JOIST MANUFACTURER. NOTCHES AND HOLES IN PLATES AND 2X JOISTS SHALL NOT EXCEED THOSE SHOWN IN DETAIL 1/SD2.																																																																																																													
9. ALTERNATE PRODUCTS MAY BE USED IN LIEU OF SPECIFIED SIMPLY AS LONG AS THEY ARE APPROVED BY JKL ENGINEERING AND PRIOR TO USE. SUCH APPROVAL IS THE RESPONSIBILITY OF THE ENGINEER.																																																																																																													
10. SHEATHING NAILING AND INSTALLATION SHALL NOT BE COVERED PRIOR TO STRUCTURAL OBSERVATION BY JKL ENGINEERING AND INSPECTION BY THE BUILDING DEPARTMENT.																																																																																																													
11. FOR HORIZONTAL CS STRAPS INSTALLED OVER BLOXING (2X OR JOIST), NO NAILS MAY BE USED ON THE STRAP. USE HANGER U.N.O. ON THE STRAP. THE STRAP MUST BE PLACED ON THE 2X OR JOIST.																																																																																																													
12. CONTINUOUS 1/2" LSL RIM BOARDS SHOULD BE USED AT ALL FLOOR FRAMING EDGES WHERE EVER POSSIBLE. ALL RIM BREAKS SHOULD BE SPUCHE WITH MINIMUM MST36 PER 2/SD4 U.N.O.																																																																																																													
13. "DROP" BEAMS SHALL BE INSTALLED WITH THE TOP OF BEAM FLUSH WITH THE TOP OF WALL PLATES SUPPORT PER DETAIL 10/SD2 AND STRAP PER 9/SD4 (WHERE PARALLEL FRAMING OCCURS), U.N.O. ON PLANS.																																																																																																													
14. "FLUSH" BOTTOM FLUSH BEAMS SHALL BE INSTALLED WITH THE BOTTOM OF BEAM DIRECTLY OVER THE TOP OF WALL PLATES SUPPORT PER DETAIL 10/SD2 AND STRAP PER 9/SD4 (WHERE PARALLEL FRAMING OCCURS), U.N.O. ON PLANS.																																																																																																													
15. TOP OF BEAM FLUSH BEAMS SHALL BE INSTALLED WITH THE TOP OF BEAM DIRECTLY BELOW THE SHEATHING SUPPORT PER DETAIL 10/SD2 AND STRAP WITH MST36 (U.N.O.) AT SIDE OF BEAM (WHERE PARALLEL FRAMING OCCURS), U.N.O. ON PLANS.																																																																																																													
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17. ALL MULTIPLE 2X MEMBERS SHALL BE LAMINATED WITH 16D NAILS AT 12" O.C. (ONE ROW FOR UP TO 2X10 MEMBERS, 2 ROWS FOR UP TO 2X12 MEMBERS, 3 ROWS FOR UP TO 2X14 MEMBERS, UNLESS NOTED OTHERWISE).																																																																																																													
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5. 	INDICATES CEILING JOIST AS DEFINED BELOW CJ - INDICATES CEILING JOISTS PER TABLE BELOW OR SEE 4/SD3 FOR ADDL SPANS 2X8 AT 24" O.C. MAX SPAN = 12'-0" <span style="float: right;">2X8 AT 24" O.C. MAX SPAN = 16'-0"</span> 2X10 AT 24" O.C. MAX SPAN = 21'-0" <span style="float: right;">2X10 AT 24" O.C. MAX SPAN = 25'-0"</span>																																																																																																												
6. 	INDICATES BEAM/POST AS DEFINED BELOW PSL - INDICATES 2X6 PARALLEL BEAM TO MATCH DEPTH OF FLOOR FRAMING W/ BN LSL - INDICATES 1/2" X 5/8" TIMBER/STRAND BEAM TO MATCH DEPTH OF FLOOR FRAMING W/ BN U.N.O. ML - INDICATES 1 9/16" MICROLAM BEAM TO MATCH DEPTH OF FLOOR FRAMING W/ BN LVL - INDICATES 2.0 LAMINATED VENEER BEAM TO MATCH DEPTH OF FLOOR FRAMING W/ BN																																																																																																												
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JOB NUMBER: 25008  
ENGINEER: AH  
DRAFTER: AH  
ORIGINAL ISSUE: 06/10/2025



**JKL**  
STRUCTURAL ENGINEERING

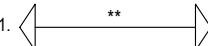
MAIL@JKLSTRUCTURAL.COM  
(626) 524-2210

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JKL ENGINEERING, INC.

## FRAMING NOTES

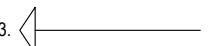
1. THE SPECIFICATIONS AND NOTES ON SHEET S0, THE TYPICAL STRUCTURAL DETAILS ON ALL SHEETS, AND THE FOLLOWING NOTES APPLY ALL STRUCTURAL FRAMING.
2. FLOOR FRAMING SHALL BE PER DETAIL 2/SD2 AND 3/SD2.
3. WALL FRAMING SHALL BE PER DETAIL 12/SD2.
4. WALLS SHALL BE FRAMED WITH CONTINUOUS STUDS FROM THE FLOOR TO THE BOTTOM OF ROOF RAFTERS/ROOF TRUSSES AT ALL SHEAR OR BEARING WALLS.
5. SHEAR PANEL MAY BE INSTALLED AT EITHER FACE OF WALL AS LONG AS MINIMUM LENGTHS AND MAXIMUM OPENINGS SIZES ARE MAINTAINED.
6. CARRY ALL BEARING MULTIPLE STUDS OR POSTS FROM UPPER LEVELS DOWN TO FIRST FLOOR OR BEAM BELOW. INSTALL SQUASH BLOCK AT THE INTERMEDIATE FLOOR LEVEL TO AT MINIMUM MATCH THE SIZE OF THE STUDS OR POSTS ABOVE.
7. SHEAR WALLS CAN NOT BE USED AS PLUMBING WALLS UNLESS APPROVED BY JKL ENGINEERING IN WRITING.
8. HOLES IN I-JOISTS SHALL NOT EXCEED THOSE ALLOWED BY JOIST MANUFACTURER. NOTCHES AND HOLES IN PLATES AND 2X JOISTS SHALL NOT EXCEED THOSE SHOWN IN DETAIL 12/SD2.
9. ALTERNATE PRODUCTS MAY BE USED IN LIEU OF SPECIFIED SIMPSON HARDWARE AS LONG AS THEIR CAPACITIES ARE EQUAL TO OR BETTER, SUBJECT TO WRITTEN APPROVAL BY JKL ENGINEERING.
10. SHEATHING NAILING AND INSTALLATION SHALL NOT BE COVERED PRIOR TO STRUCTURAL OBSERVATION BY JKL ENGINEERING AND INSPECTION BY THE BUILDING DEPARTMENT.
11. FOR HORIZONTAL CS STRAPS INSTALLED OVER BLOCKING (2X OR I-JOIST), 10D NAILS MAY BE INSTALLED IN EVERY OTHER HOLE EXCEPT WHERE THERE IS INSUFFICIENT END LENGTH.
12. CONTINUOUS 1 1/4" LSL RIM BOARDS SHOULD BE USED AT ALL FLOOR FRAMING EDGES WHERE EVER POSSIBLE. ALL RIM BREAKS SHOULD BE SPLICE WITH MINIMUM MSTA36 PER 2/SD4, U.N.O.
13. "DROP" BEAMS SHALL BE INSTALLED WITH THE TOP OF BEAM FLUSH WITH THE TOP OF WALL PLATES. SUPPORT PER DETAIL 10/SD2 AND STRAP PER 9/SD4 (WHERE PARALLEL FRAMING OCCURS), U.N.O. ON PLANS.
14. "FLUSH" / "BOTTOM FLUSH" BEAMS SHALL BE INSTALLED WITH THE BOTTOM OF BEAM DIRECTLY OVER THE TOP OF WALL PLATES. SUPPORT PER DETAIL 10/SD2 AND STRAP PER 9/SD4 (WHERE PARALLEL FRAMING OCCURS), U.N.O. ON PLANS.
15. "TOP FLUSH" BEAMS SHALL BE INSTALLED WITH THE TOP OF BEAM DIRECTLY BELOW THE SHEATHING. SUPPORT PER DETAIL 10/SD2 AND STRAP WITH MSTA36 (U.N.O.) AT SIDE OF BEAM (WHERE PARALLEL FRAMING OCCURS), U.N.O. ON PLANS.
16. "CEILING" BEAMS OR "CB" SHALL BE INSTALLED PER "FLUSH" BEAMS AS NOTED ABOVE.
17. FRAMING FOR PERIMETER FIREPLACE FLUES SHALL BE A MINIMUM OF 2X4 STUDS AT 16" O.C. BRACED AT MID HEIGHT AND AT FLOOR AND ROOF LEVELS. MAXIMUM UNBRACED LENGTH OF STUDS SHALL BE 14' (7' FOR CANTILEVERS).
18. ALL MULTIPLE 2X MEMBERS SHALL BE LAMINATED WITH 16D NAILS AT 12" O.C. (ONE ROW FOR UP TO 2X6 MEMBERS, 2 ROWS FOR UP TO 2X10 MEMBERS, 3 ROWS FOR UP TO 2X14 MEMBERS), UNLESS NOTED OTHERWISE.
19. ALL FLUSH AND TOP FLUSH BEAMS SHALL BE BOUNDARY NAILED AND HAVE MINIMUM 2-2X SUPPORTS U.N.O.

## FRAMING LEGEND

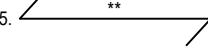
1.  INDICATES FRAMING MEMBER AS DEFINED BELOW.

RJ- INDICATES 14" TJI 230 ROOF RAFTERS AT 24" O.C., U.N.O.

2.  INDICATES CANTILEVERED MEMBER AS DEFINED ABOVE.

3.  INDICATES BEARING CONDITION AT JOISTS/RAFTERS/TRUSSES

4.  INDICATES HANGING CONDITION AT JOISTS/RAFTERS/TRUSSES. SEE S0 FOR HANGER U.N.O.

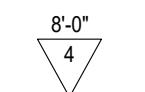
5.  INDICATES CEILING JOIST AS DEFINED BELOW

CJ - INDICATES CEILING JOISTS PER TABLE BELOW OR SEE 4/SD3 FOR ADD'L SPANS

2X6 AT 24" O.C. MAX SPAN = 12'-0" 2X10 AT 24" O.C. MAX SPAN = 21'-0"	2X8 AT 24" O.C. MAX SPAN = 16'-0" 2X12 AT 24" O.C. MAX SPAN = 25'-0"
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6.  INDICATES BEAM/JOIST/RIM AS DEFINED BELOW.

PSL - INDICATES 2.0E PARALLAM BEAM TO MATCH DEPTH OF FLOOR FRAMING W/ BN  
LSL - INDICATES 1 1/4 1.55E TIMBERSTRAND BEAM TO MATCH DEPTH OF FLOOR FRAMING W/ BN U.N.O.  
ML - INDICATES 1.9E MICROLLAM BEAM TO MATCH DEPTH OF FLOOR FRAMING W/ BN  
LVL - INDICATES 2.0E LAMINATED VENEER BEAM TO MATCH DEPTH OF FLOOR FRAMING W/ BN

7.  8'-0" SHEAR WALL CALLOUT INDICATES SHEAR WALL TYPE AND LENGTH. SEE TO SHEAR SCHEDULE (BELOW), ANCHOR BOLT SCHEDULE (FND PLAN), AND DETAIL CALLOUT 12/SD2 FOR MORE INFORMATION.

8.  4x4 HTTA INDICATES POST SIZE AND SIMPSON HOLDOWN ANCHOR OR STRAP. INSTALL HOLDOWN ANCHOR PER MANUFACTURER'S RECOMMENDATIONS AND DETAIL CALLOUT 1/SD4 AND 8/SD1.

9.  DETAIL NUMBER  
DETAIL CALLOUT. SEE DETAIL NUMBER ON SHEET NUMBER AS SHOWN  
SHEET NUMBER

10.  BEAM NUMBER (FOR REFERENCE ONLY)

SHEAR SCHEDULE F

	NON-SHEAR	6	4	3	2
FOOTNOTES		B,C	A,B,C	A,B,C	A,B,C
CONSTRUCTION APA RATED STRUCT 1 SHEATHING BOUNDARY / EDGE NAILING (COMMON NAILS)	N/A N/A	15/32" 10d @ 6"	15/32" 10d @ 4"	15/32" 10d @ 3"	15/32" 10d @ 2"
MUD SILL / UPPER FLOOR SOLE	2x/2x	2x/2x	3x/2x	3x/2x	3x/2x
MIN. MEMBER ABOVE & BELOW WALL BLOCKING (INTERIOR) RIM (EXTERIOR OR INTERIOR) CONTINUOUS JOIST (INTERIOR)	TJI 110 1.5" LSL TJI 110	TJI 110 1.5" LSL TJI 110	1.5" LSL 1.5" LSL 1.5" LSL	1.5" LSL 1.5" LSL 1.5" LSL	1.5" LSL 1.5" LSL 1.5" LSL
CONNECTOR SPACING (O.C.) 12d 16d A35 RBC LTP4 LTP5 1/4" SDWS SCREWS W/ 1.75" MIN PENETRATION INTO RIM		8" 8" 46" 29" 44" 36" -	4" 4" 24" 14" 23" 19" 15"	3" 3 17" 10" 16 13" 10" 10"	2.25" 2.25 13" 8" 13" 10" 8" 6"
WALL CAPACITY (PLF)	N/A	313	470	611	800
<b>GENERAL NOTES:</b>					
<ol style="list-style-type: none"> <li>ALL NAILING SHALL BE STAGGERED WHERE SPACING IS 4" OR LESS ON CENTER.</li> <li>ALL FIELD NAILING SHALL BE 12" O.C.</li> <li>USE THE "NON-SHEAR" CONNECTOR SCHEDULE AT ALL NON-SHEAR WALLS.</li> <li>ALL SHEATHING EDGES SHALL BE BLOCKED.</li> <li>NAILS SHALL BE PLACED NOT LESS THAN <math>\frac{1}{2}</math>" EDGE DISTANCE FROM PANEL EDGES AND <math>\frac{3}{8}</math>" FROM THE EDGE OF THE CONNECTING MEMBERS.</li> <li>PANELS EDGES SHALL BE STAGGERED ON ALTERNATING STUDS WHEN SHEAR WALL IS SHEATHED ON BOTH SIDES.</li> </ol>					
<b>FOOTNOTES:</b>					
A. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3-INCH NOMINAL OR WIDER (ALTERNATIVELY, 2-2X STUDS MAY BE USED IF THEY ARE STITCHNAILED TOGETHER AT SHEAR WALL EDGE NAILING)					
B. APA STRUCT 1 RATED SHEATHING					
C. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS OF THE SHEAR WALL PER 1705.12.2, EXCEPT FOR WHERE THE FASTENER SPACING OF THE SHEATHING IS EQUAL TO OR MORE THAN 4" ON CENTER AND OCCUPANCIES IN GROUP R-3 AND OCCUPANCIES IN GROUP U THAT ARE ACCESSORY TO A RESIDENTIAL OCCUPANCY, INCLUDING BUT NOT LIMITED TO THOSE LISTED IN SECTION 312.1					

OFFICE WAREHOUSE  
2710 DURAHART STREET  
RIVERSIDE, CA 92507  
PHONE 951-785-1111

A circular registration stamp with a double-lined border. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STRUCTURAL" at the bottom. The inner circle contains "JASON K. LIN" at the top and "S-6095" at the bottom. Below "S-6095" is the date "JUNE 30, 2026". There are two five-pointed stars, one on each side of the date.

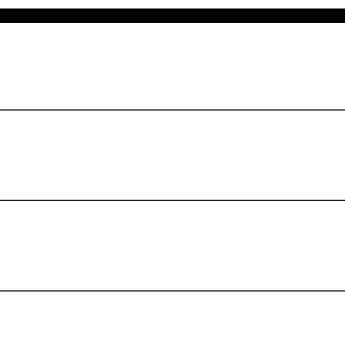
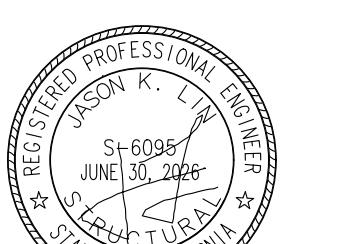
The image shows a series of five horizontal lines for handwriting practice. Each line is preceded by a large, hollow triangle outline for the student to trace. The lines are evenly spaced and extend across the width of the page.

JOB NUMBER: 23  
ENGINEER:  
DRAFTER:  
ORIGINAL ISSUE: 06/10/

# DOOF FRAMING PLAN

ALF· 1/4"=1'

S2


JOB NUMBER: 25008  
ENGINEER: AH  
DRAFTER: AH  
ORIGINAL ISSUE: 06/10/2025

SD1

