

CONCRETE

- NO PIPES OR DUCTS ARE TO BE PLACED IN CONCRETE SLABS UNLESS SPECIFICALLY DETAILED.
- AGGREGATES SHALL BE NATURAL SAND AND ROCK CONFORMING TO ASTM C33.
- ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
  - FOUNDATION.....2500PSI
- SPLICES OF HORIZONTAL REBAR IN WALLS AND FOOTINGS SHALL BE STAGGERED.
- LAP ALL BARS A MINIMUM OF 36 BAR DIAMS. (2'-0" MIN.) AT ALL SPLICES UNLESS OTHERWISE NOTED.
- DOWELS FOR WALLS SHALL BE THE SAME SIZE AND SPACING AS THE WALL REINFORCEMENT AND SHALL LAP WITH THE WALL REBAR AS NOTED ABOVE UNLESS OTHERWISE NOTED.
- MINIMUM CONCRETE COVER: THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN THE FACE OF THE CONCRETE AND REINFORCING STEEL SHALL BE MAINTAINED UNLESS OTHERWISE NOTED.
 

CONCRETE BELOW GRADE, FORMED.....	2 IN.
CONCRETE BELOW GRADE, UNFORMED (POURED AGAINST EARTH).....	3"
SLABS ON EARTH.....	CENTER OF SLAB
- WALLS AND COLUMNS UNFORMED SURFACES EXPOSED TO EARTH.....3" UNFORMED SURFACES EXPOSED TO WEATHER OR EARTH.....3" FORMED SURFACES EXPOSED TO WEATHER OR EARTH.....3" #5 BARS OR SMALLER.....1-1/2" #6 BARS OR LARGER.....2" FORMED SURFACES NOT EXPOSED TO WEATHER OR EARTH.....1" BUSHED HAMMERED SURFACES.....2"
- COLUMNS INTERIOR.....1-1/2" EXTERIOR.....3"
- SLABS POURED DIRECTLY ON EARTH.....3" SURFACES POURED DIRECTLY ON EARTH.....3" ALL OTHER SURFACES.....3/4"
- BEAMS SURFACES POURED AGAINST EARTH.....3" FORMED SURFACES.....2"
- REINFORCING STEEL SHALL CONFORM TO ASSIM A615 FOR #4 AND SMALLER.....GRADE 40 FOR #5 AND LARGER.....GRADE 60.
- REINFORCING FABRIC SHALL CONFORM TO ASTM A 185.
- DOWELS, ANCHOR BOLTS, INSERT, ETC. SHALL BE SECURELY TIED IN PLACE TO THE POURING OF ANY CONCRETE OR GROUT.
- WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D12-1 USING LOW HYDROGEN ELECTRODES.
- CEMENT SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150, TYPE V.....LOW ALKALI TESTS AND INSPECTIONS

NAILING SCHEDULE

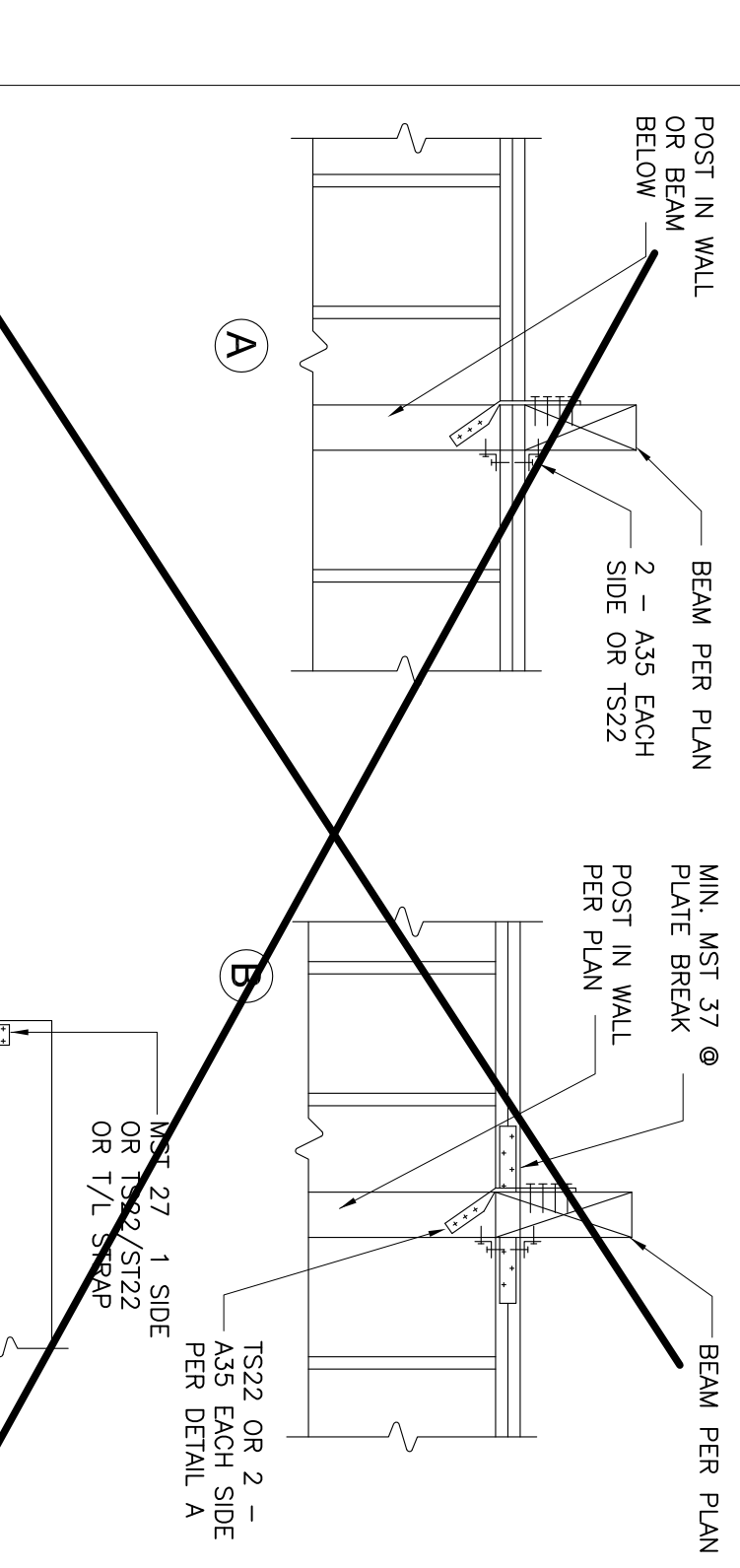
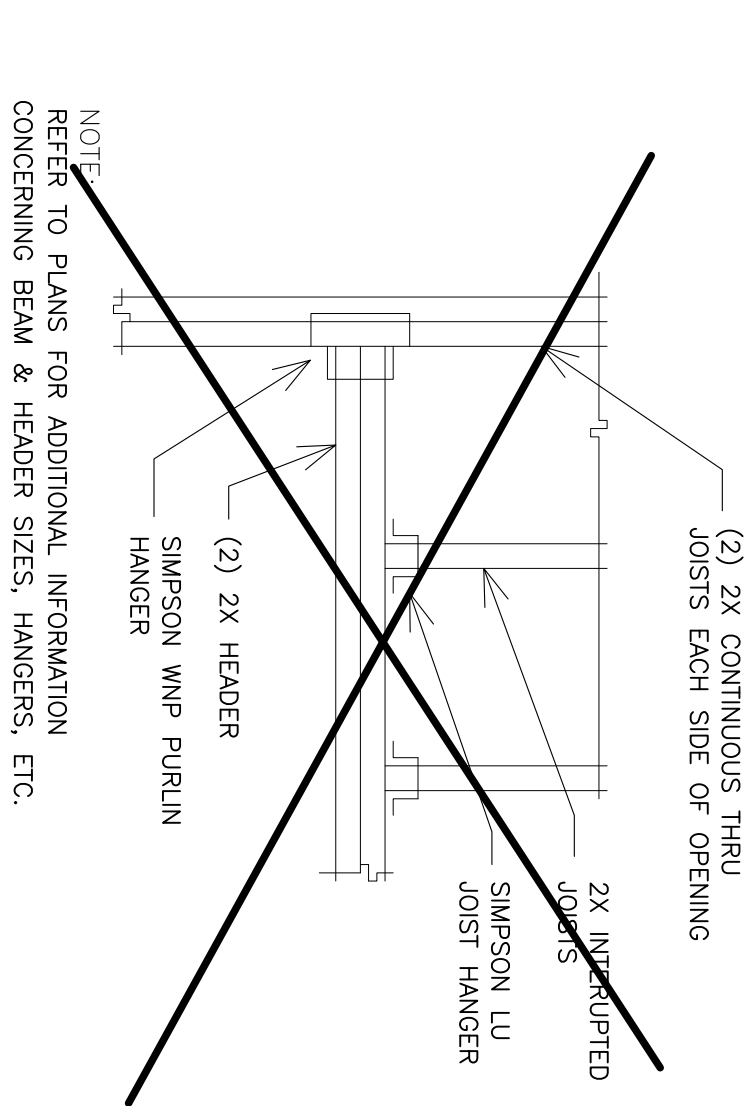
- JOIST TO SILL OR GIRDER, TOENAIL.....3-8d
- BRIDGING TO JOIST, TOENAIL EACH END.....2-8d
- 1"x6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL.....2-8d
- WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST.....3-8d
- FACE NAIL.....2-8d
- 2" BRIDGING TO GIRDER.....2-16d
- BLIND AND FACE NAIL.....16d AT 16"OC.
- SLOPE PLATE TO JOIST OR BLOCKING.....2-16d
- FACE NAIL.....16d AT 16"OC.
- TOP PLATE TO STUD, END NAIL.....2-16d
- STUD TO SLOPE PLATE.....4-8, TOENAIL OR 2-16d, END NAIL.....16d AT 16"OC.
- DOUBLE STUDS, FACE NAIL.....16d AT 16"OC.
- DOUBLED TOP PLATES, FACE NAIL.....2-16d
- TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL.....2-16d
- CONTINUOUS HEADER, TWO PIECES.....16d AT 16"OC. ALONG EACH EDGE.....3-8d
- CEILING JOISTS TO PLATE, TOENAIL.....3-8d
- CONTINUOUS HEADER TO STUD, TOENAIL.....4-8d
- CEILING JOISTS LAP OVER PARTITIONS, FACE NAIL.....3-16d
- CEILING JOISTS LAP OVER PARTITIONS, FACE NAIL.....3-16d
- BRACE TO EACH STUD AND PLATE, FACE NAIL.....2-8d
- 1"x8" SHEATHING OR LESS TO EACH BEARING.....2-8d
- FACE NAIL.....2-8d
- WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL.....3-8d.
- BUILD-UP CORNER STUDS.....16d AT 24"OC.
- 2" OP.....20d OP
- BUILD-UP GIRDER AND BEAMS.....16d AT 32"OC.
- 2" OP.....20d OP
- STAGGERED 2-20d BOTTOM, AND AT ENDS AND AT EACH SPICE.....2-16d AT EACH BEARING.
- 2" PLANKS.....

WOOD FRAME

- ALL WOOD BEARING ON MASONRY OR CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR.
- THE TOP PLATE OF ALL STUD WALLS SHALL BE 2 PIECES, THE SAME SIZE AS STUDS. SPLICES TO LAP 4'-0" MINIMUM AND BE NAILED WITH 12-16d MINIMUM ON EACH SIDE OF JOINT. SEE #5.
- ALL BOLTS SHALL BE RETURNED PRIOR TO THE APPLICATION OF PLASTER, SHEATHING, ETC. STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY DETAILED.
- PROVIDE FIRE STOPS AT ALL INTERSECTIONS OF STUD WALLS AT CEILING, ROOF AND FLOOR. FIRE STOPS SHALL BE 2X NOMINAL THICKNESS OF WOOD AND SHALL BE THE FULL WIDTH OF THE STUDS. FIRE STOPPING SHALL BE DONE IN EACH DIRECTION AT A MAXIMUM SPACING OF 8'-0" IN EACH DIRECTION AND AT THE SAME LINES AS FIRE STOPS IN ADJACENT STUD WALLS.
- ALL PLYWOOD NAILS SHALL BE COMMON ONLY. ALL OTHER NAILS SHALL BE GALVANIZED OR COMMON BOX. NAILING SHALL BE PER CHAPTER 25 OF THE UNIFORM BUILDING CODE.
- BOLT HOLES IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER THE HEAD AND NUT UNLESS OTHERWISE NOTED.
- GROSS BRIDGING SHALL BE PROVIDED AT 8'-0" OC MAXIMUM FOR ALL RAFTERS AND JOISTS MORE THAN 8' DEEP.
- PROVIDE SOLID 2X FULL DEPTH BLOCKING UNDER PARTITIONS WHICH ARE PERPENDICULAR TO THE JOISTS.
- BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF A STUD AS A NOTCH OR CUT.
- PLYWOOD FOR ROOF SHEATHING SHALL BE CDX. WHERE PLYWOOD IS EXPOSED TO WEATHER, USE EXTERIOR TYPE MINIMUM C-C GRADE. PLYWOOD FOR FLOOR SHEATHING SHALL BE CDX. EXTERIOR TYPE GLUE SHALL BE USED TO GLUE PLYWOOD. ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS-1-83. PLYWOOD SHALL BEAR THE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION.
- PROVIDE DOUBLE JOISTS UNDER PARTITIONS WHICH ARE PARALLEL TO THE JOISTS.
- WOOD STUDS MAY BE NOTCHED TO A DEPTH OF 25% OF WIDTH MAXIMUM. INTERIOR NONBEARING STUDS MAY BE NOTCHED TO 40% OF WIDTH MAXIMUM.
- EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED BY A REGISTERED BRAND OR STAMP OF THE DOUGLAS FIR PLYWOOD ASSOCIATION.
- IN NO CASE SHALL THE EDGE OF A BORED HOLE BE NEARER THAN 5/8" INCH TO THE EDGE OF A STUD.
- STUDS MAY BE BORED TO 40% OF WIDTH MAXIMUM EXCEPT IN THE CASE OF STUDS WHICH ARE TO BE DOUBLED WITH NOT MORE THAN TWO SUCCESSIVE DOUBLED STUDS.
- PROVIDE 2X SOLID BLOCKING BETWEEN RAFTERS AND JOISTS AT ALL SUPPORTS. BLOCKING SHALL BE ONE PIECE AND THE FULL DEPTH OF THE RAFTER OR JOIST.
- ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR OF THE FOLLOWING GRADES, CONFORMING TO STANDARD GRADING RULES FOR WEST COAST LUMBER, NO. 16, UNLESS OTHERWISE NOTED. STUDS, BLOCKING, STRIPPING.....STUD GRADE BEAMS AND STRINGERS.....NO. 1 1000F. 5/4" x 8" PLATES AND JOISTS.....NO. 2 1000F. RAFTERS, PLATES AND JOISTS.....NO. 2 1000F. POSTS AND TIMBERS.....NO. 1 1000F.
- DESIGN BEARING PRESSURE IS 1000 PSF WITH A 33% INCREASE FOR WIND OR SEISMIC LOADING.
- ALL EXCAVATIONS ARE TO BE INSPECTED AND APPROVED BY A SOILS ENGINEER PRIOR TO THE PLACEMENT OF ANY REINFORCING OR FILL.
- DESIGN COEFFICIENT OF FRICTION IS 0.30 WITH A 33% INCREASE FOR WIND OR SEISMIC LOADING.
- FOUNDATIONS SHALL BE OF THE SIZE AND TYPE AS INDICATED ON THE DRAWINGS.
- DESIGN LATERAL BEARING PRESSURE IS 300 PSF/FT WITH A 33% INCREASE FOR WIND OR SEISMIC LOADING AND A 200% INCREASE FOR ISOLATED POLE TYPE FOOTING.
- THERE IS NO SOILS REPORT.
- FOOTINGS ARE TO BE CARRIED A MINIMUM OF 2'-0" INTO UNDISTURBED FIRM NATURAL SOIL OR APPROVED COMPACTED FILL.
- PROVIDE SURVEY AT TIME OF FOUNDATION INSPECTION TO VERIFY BUILDING HAS PROPER SETBACKS FROM PROPERTY LINE AND EASEMENT.

FOUNDATIONS

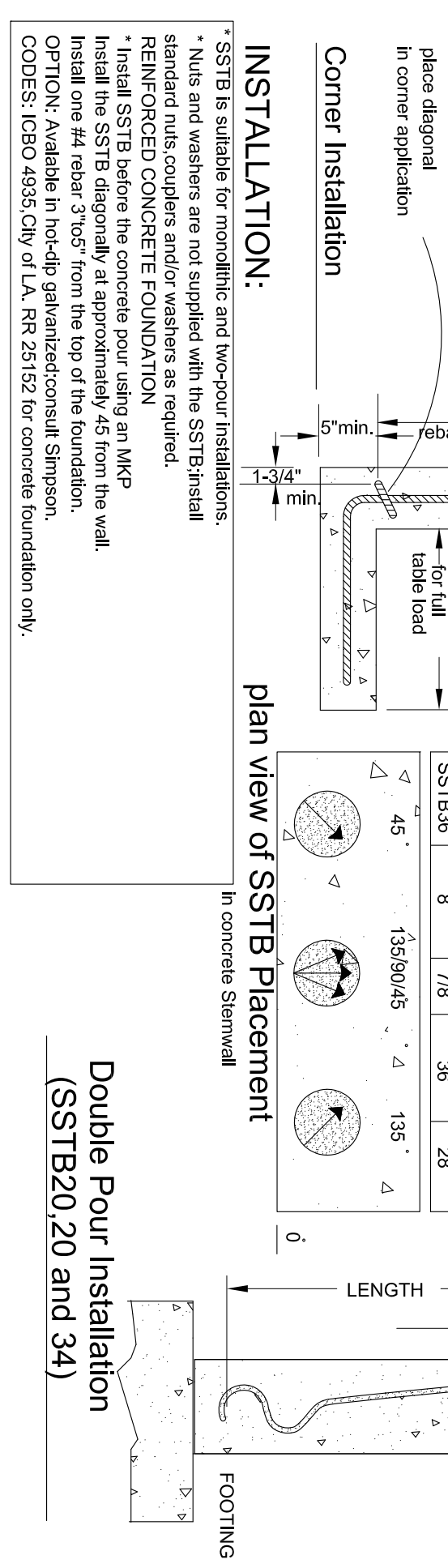
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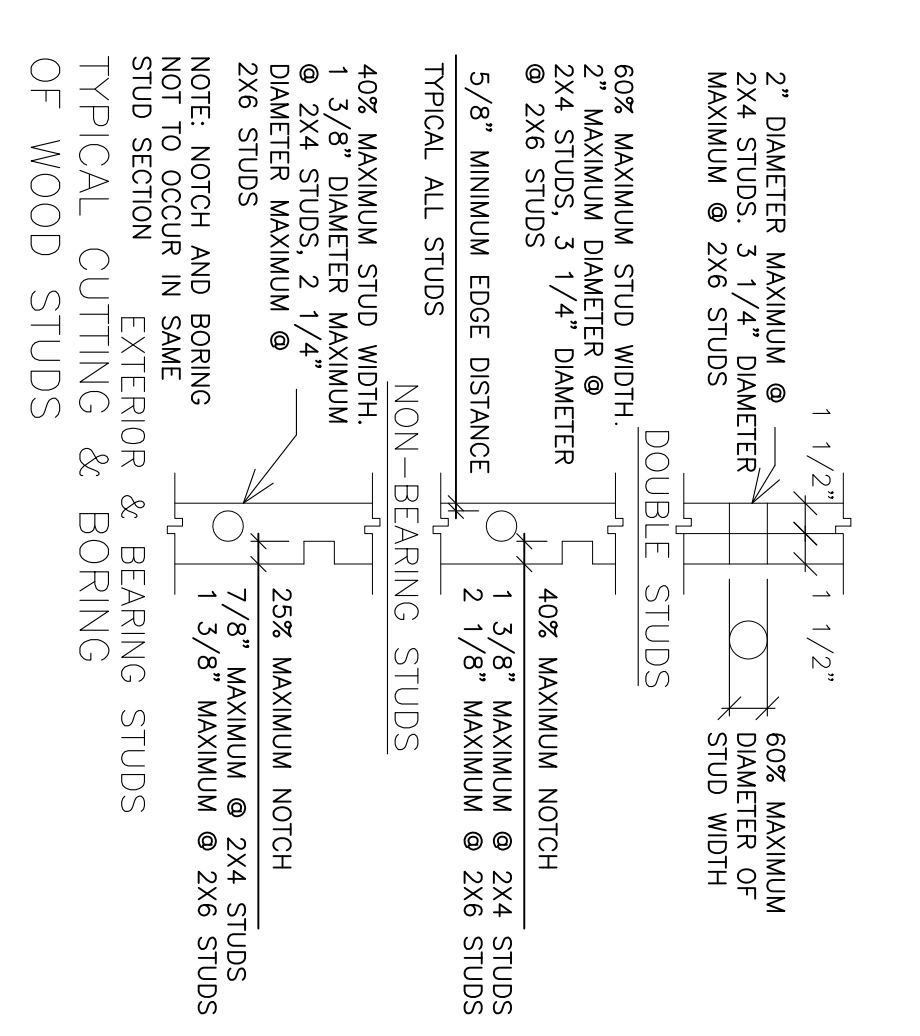
TYPICAL OPENINGS @ ROOF

POST / BEAM CONNECTIONS

Model No.	Stemwall Dia	Length	Min. Embedment
SSTB16	6	58	17
SSTB20	6	58	21
SSTB24	6	58	25
SSTB28	8	78	29
SSTB34	8	78	34
SSTB38	8	78	36

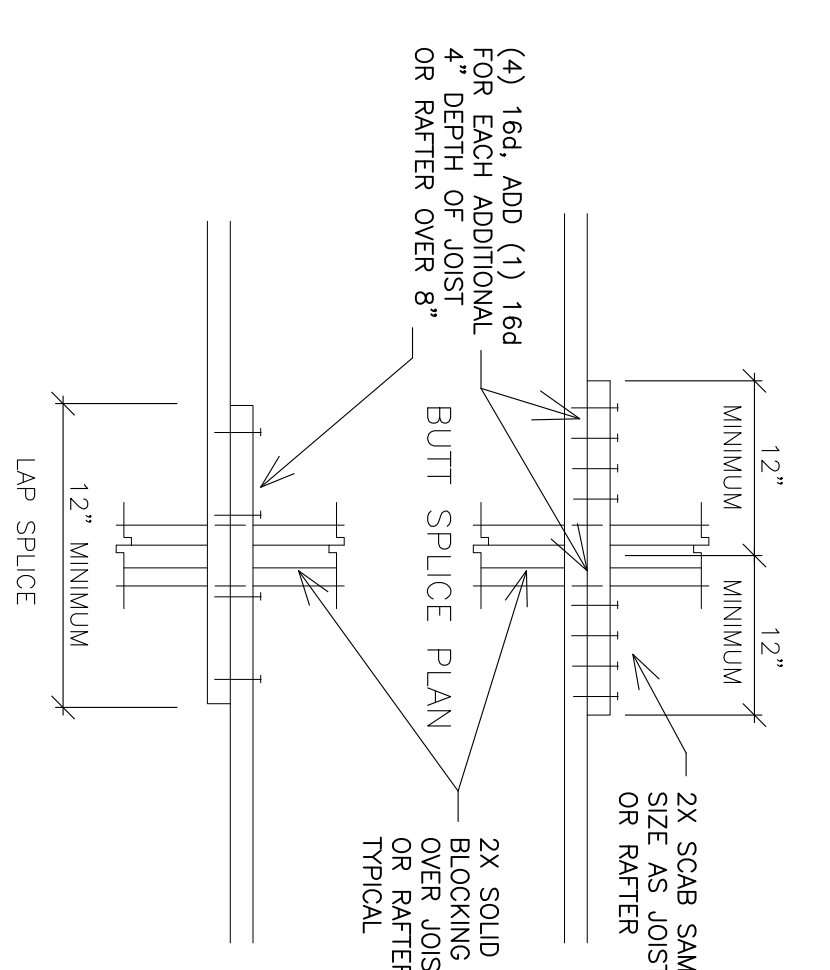


SIMPSON SSTB ANCHOR BOLT



NOTCHING & BORING

JOIST LAP



STUDIO M + A  
5608 E. PEABODY ST.  
LONG BEACH, CA 90242 626-375-3073

JANE ROGERS  
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TORRANCE, CA.

DATE: NOV 6, 2013  
DRAWN BY: A. Gomez  
SHEET NUMBER: A-5.1

STRUCTURAL DESIGN