

GENERAL

TYPICAL DETAILS AND GENERAL NOTES SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK. NO DEVIATIONS FROM THE DRAWINGS SHALL BE PERMITTED WITHOUT THE PERMISSION OF THE ENGINEER AND THE OFFICE OF THE STATE ARCHITECT.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SLAB DEPRESSIONS, SLOPES, CURBS, DRAINS, OPENINGS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL MECH. & ELECT. EQUIP. SHALL BE BRACED & ANCHORED ADEQUATELY FOR SEISMIC LOADS PER TITLE 24, SECTION 23119(f) & TABLE 23-P.

WHERE CONSTRUCTION MATERIALS ARE TEMPORARILY STORED ON THE ROOF FRAMING, THEY SHALL BE DISTRIBUTED SO THAT THE LOAD DOES NOT EXCEED 20 LBS/SF.

THE CONTRACTOR SHALL:

1. VERIFY ALL (E) EXISTING CONDITIONS AND DIMENSIONS AND REPORT ANY DIFFERENCES IN ASSUMED CONDITIONS TO THE ARCHITECT PRIOR TO PROCEEDING.
2. PROVIDE & BE SOLELY RESPONSIBLE FOR ALL TEMPORARY SHORING, GUYS AND BRACING NECESSARY FOR STRUCTURAL WORK SHOWN ON THESE DRAWINGS.
3. PERFORM ALL WORK AND RECEIVE ALL TESTS AND INSPECTIONS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, DRAWINGS, THE 1988 U.B.C., TITLE 24, PART 2 OF THE CALIFORNIA CODE OF REGULATIONS (CCR) AND THE "STRUCTURAL TESTS AND INSPECTIONS" SCHEDULE.
4. BE SOLELY RESPONSIBLE FOR CONDITIONS AT THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.
5. PERFORM ALL DEMOLITION, REMOVAL AND DISPOSAL IN CONFORMANCE WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF OFF SITE UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
6. PERFORM ALL WORK UNDER CONTINUOUS INSPECTION OF OSA APPROVED INSPECTOR.

ALL SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS. THESE SUPPORT SERVICES DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

ALL THE DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL DIMENSIONS & (E) CONDITIONS SHALL BE VERIFIED AT THE SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

ALL ITEMS SHOWN ON THESE DRAWINGS ARE NEW CONSTRUCTION UNLESS IDENTIFIED AS (E) EXISTING.

ALL NEW STRUCTURAL MATERIAL SHALL BEAR DIRECTLY ON (E) FRAMING OR (E) SITS. ALL (E) ROOFING & DIMB NON-STRUCTURAL MATERIAL TO BE REMOVED SHALL BE REPLACED OR PATCHED PER THE ARCH. DRAWINGS.

WOOD

FRAMING LUMBER SHALL BE GRADE MARKED AS FOLLOWS (U.N.O.):
 2X4 & SMALLER (DOUGLAS FIR).....STANDARD OR BETTER
 2X6 & DEEPER (DOUGLAS FIR).....NO. 2
 3X & LARGER (DOUGLAS FIR).....NO. 1
 SILLS (HEM-FIR OR DOUGLAS FIR).....PRESSURE TREATED (LP-2)

STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS THAT WOULD OTHERWISE BEAR ON WOOD SURFACES. ALL LIGHT GAGE METAL CONNECTORS SHALL BE MANUFACTURED BY "SIMPSON STRONG-TIE CO., INC.". ALL "HD" CONNECTORS SHALL BE INSTALLED WITH WASHERS AS PER MANUFACTURERS RECOMMENDATIONS. RETIGHTEN BOLTS BEFORE CLOSING IN.

ALL NAILS SHALL BE COMMON GAGE, UNCOATED AND HAVE FULL HEADS. WHERE DRIVING NAILS CAUSES SPLITTING, LEAD HOLES WITH A DIAMETER EQUALING 60 TO 75 PERCENT OF THE NAIL DIAMETER SHALL BE PROVIDED. **ALL EQUIP. PLATFORM FRAMING MUST BE RING SHANK OR SCREEN SHANK**

LAG SCREWS OR LAG BOLTS SHALL BE INSERTED IN LEAD HOLES AS FOLLOWS:

1. THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF UNTHREADED SHANK.
2. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 PERCENT TO 75 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.
3. THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER.

NAILING SCHEDULES:

JOISTS OR RAFTERS TO SIDES OF STUDS	3-16d
EIGHT (8) INCH JOISTS OR LESS.....	1-16d
FOR EACH ADDITIONAL FOUR (4) INCHES IN DEPTH OF JOIST.....	2-10d
JOISTS OR RAFTERS AT ALL BEARINGS (F.N., EA. SIDE).....	3-16d
CEILING JOISTS, LAPS OVER PARTITIONS (F.N.).....	3-16d
CEILING JOISTS TO PARALLEL RAFTERS (F.N.).....	3-16d
BLOCKING BETWEEN JOISTS OR RAFTERS	2-10d
TO JOIST OR RAFTERS (F.N. EA. SIDE, EA. END).....	3-10d
TO JOIST OR RAFTER BEARINGS (T.N., EA. SIDE).....	2-10d
BLOCKING BETWEEN STUDS (EA. END).....	2-10d
BRIDGING TO JOIST (T.N., EA. END).....	2-8d
SOLE PLATE TO JOIST OR BLOCKING (F.N.).....	16d @ 16" O.C.
TOP PLATE TO STUD (END NAIL).....	2-16d
STUD TO SOLE PLATE (F.N.).....	4-8d
DOUBLED STUDS (F.N.).....	16d @ 24" O.C.
TOP PLATES, LAPS AND INTERSECTIONS (F.N.).....	2-16d
DOUBLE TOP PLATES (F.N.).....	16d @ 12" O.C. U.N.O.
BUILT-UP CORNER STUDS.....	16d @ 24" O.C.
RIBBONS TO STUDS - ONE (1) INCH RIBBONS.....	2-8d
RIBBONS TO STUDS - TWO (2) INCH RIBBONS.....	2-16d
CONTINUOUS HEADER, TWO PIECES.....	16d @ 16" O.C. ALONG EACH EDGE
CONTINUOUS HEADER TO STUD (T.N.).....	4-8d
1" BRACE TO EACH STUD AND PLATE (F.N.).....	3-8d
BUILT-UP GIRDER AND BEAMS.....	20d @ 24" O.C. @ TOP & BOTTOM & STAGGERED PLUS 3-20d @ ENDS & EA. BRIDGE PLUS 2-16d @ EA. BEARING

PLYND. SHEATHING SCHEDULE (1), (2)

IDENT.	MATERIAL DESCRIPTION	(7)	REMARKS
NO. 12 SHIT & REPAIR OR REPLACEMENT OF (E) 5/8" SHIT	5/8" PLYND., APA RATED SHITG., 40/20, EXPOSURE I, STRUCT. I.	10d @ 6" BOUNDARY 10d @ 6" EDGES. 10d @ 12" INTERN.	
VEAT SHIT	5/8" PLYND., APA RATED SHITG., 24/0, EXPOSURE I, STRUCT. I.	8d @ 6" BOUNDARY 8d @ 6" EDGES. 8d @ 12" INTERN.	
REPAIR OR REPLACEMENT OF (E) 1/2" PLYND. SHIT	1/2" PLYND. APA RATED SHITG. 52/16, EXPOSURE I, STRUCT. I.	10d @ 6" BOUNDARY 10d @ 6" EDGES 10d @ 12" INTERN.	
REPAIR OR REPLACEMENT OF (E) 1/2" SHIT	1/2" PLYND. APA RATED SHITG. 48/24, EXPOSURE I, STRUCT. I.	10d @ 6" BOUNDARY 10d @ 6" EDGES 10d @ 12" INTERN.	

- NOTES**
- (1) SEE SHIT 5-1 FOR GENERAL NOTES AND TYPICAL DETAILS.
 - (2) SEE PLANS FOR LOCATIONS OF SHEATHING. STAGGER SHEETS AS SHOWN. PLYWOOD SHALL CONFORM TO PS-1-83.
 - (3) PLYWOOD NAILS SHALL HAVE FULL HEADS AND BE OF THE FOLLOWING SIZES:
 10d = .148" DIA. X 2-3/8" LONG (RING SHANK OR SCREEN SHANK)
 8d = .131" DIA. X 2" LONG (RING SHANK OR SCREEN SHANK)
 - (4) IN HORIZONTAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 24 INCHES WIDE SHALL BE USED. IN VERTICAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 12 INCHES WIDE SHALL BE USED.
 - (5) EDGES OF ALL OPNGS SHALL BE PERIMETER NAILED PER THE BOUNDARY NAILING REQUIRED FOR THAT AREA.
 - (6) THE EDGE DISTANCE FOR A 3 INCH NOMINAL (2-1/2 INCHES MINIMUM NET) WIDE MEMBERS ON WHICH SHEETS ARE SPLICED SHALL BE 3/4 INCH MINIMUM. THE EDGE DISTANCE FOR 2 INCH NOMINAL (1-1/2 INCHES MINIMUM NET) WIDE MEMBERS ON WHICH SHEETS ARE SPLICED SHALL BE 3/8 INCH MINIMUM. THE EDGE DISTANCE FOR PLYWOOD SHEETS SHALL BE NOT LESS THAN 3/8 INCH. NAILS MAY BE SLANT DRIVEN TO MAINTAIN MINIMUM EDGE DISTANCE IN FRAMING MEMBERS.
 - (7) USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE OFFICE OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

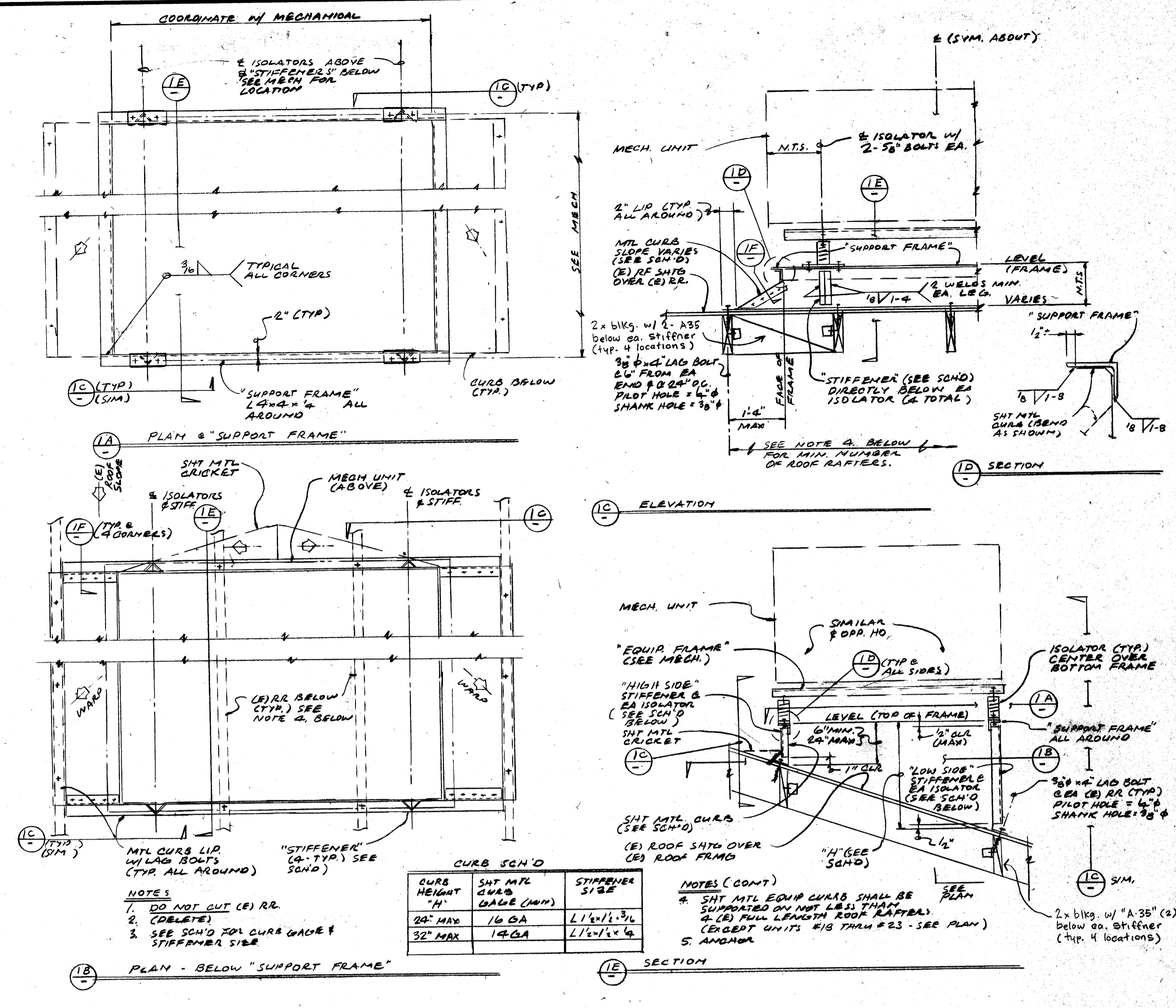
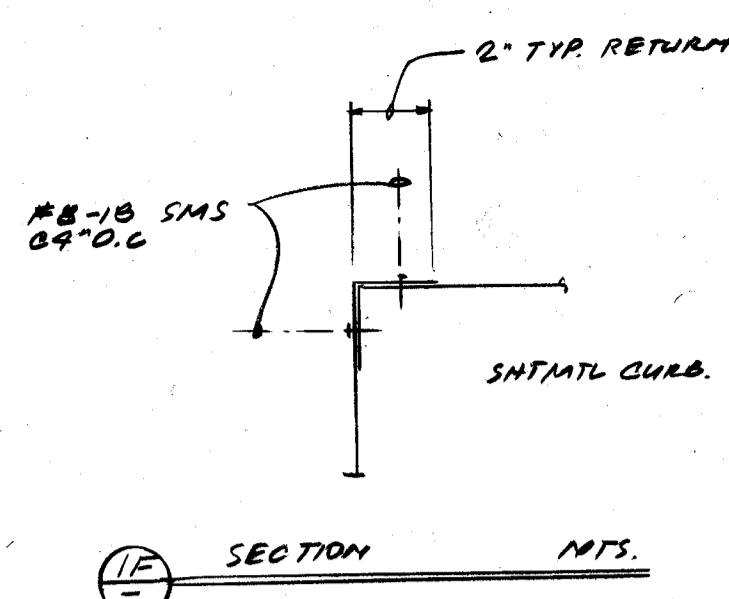
STRUCTURAL STEEL

MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
 SHAPES, PLATES, BARS, RODS, ETC.....ASTM A36...Fy=36 ksi
 LIGHT GAGE STEEL.....GRADE C, ASTM A611...Fy=33 ksi
 WELDING ELECTRODES.....AWS E70XX
 MACHINE BOLTS AND ANCHOR BOLTS (U.N.O.).....ASTM A36 OR ASTM A307

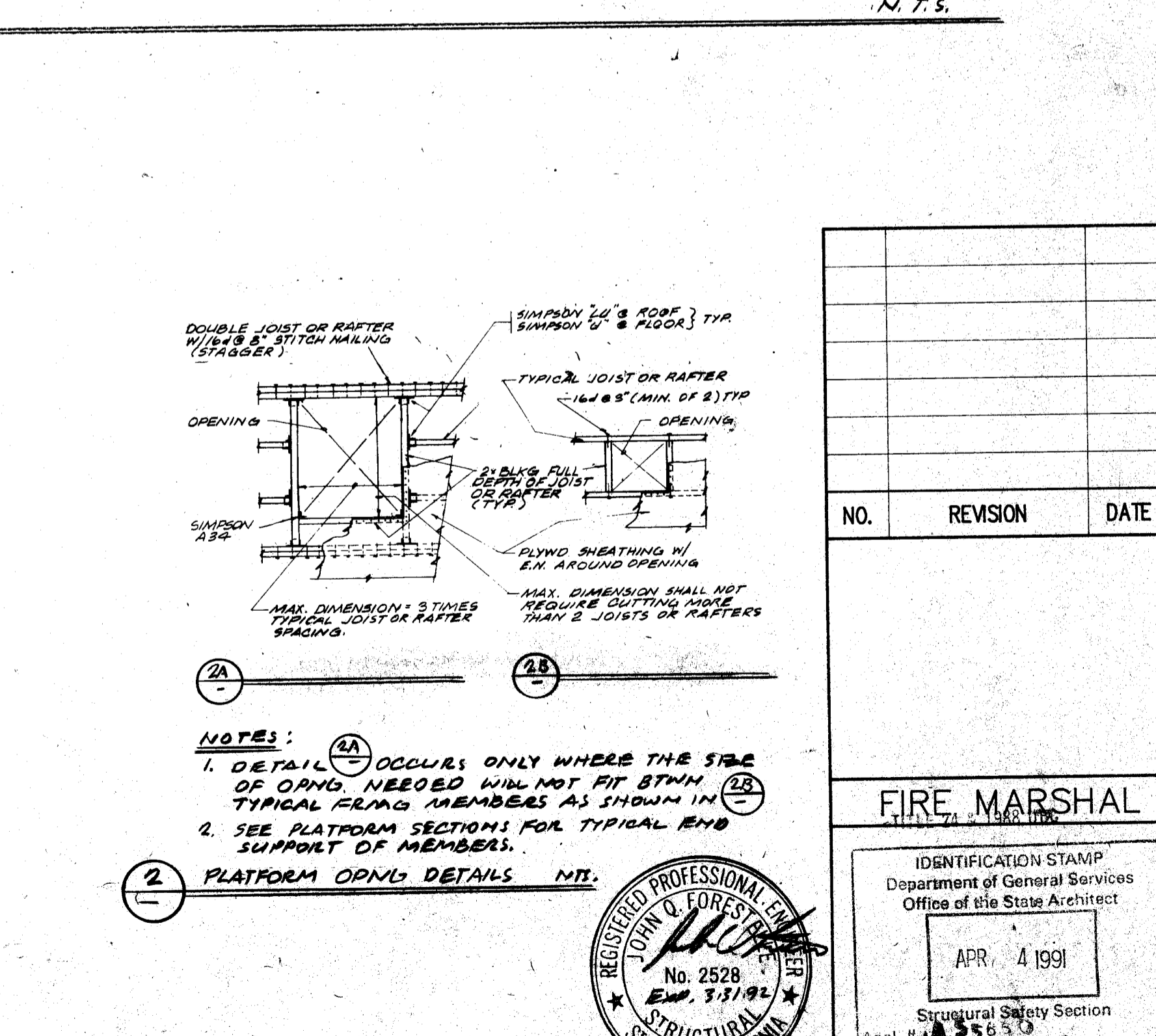
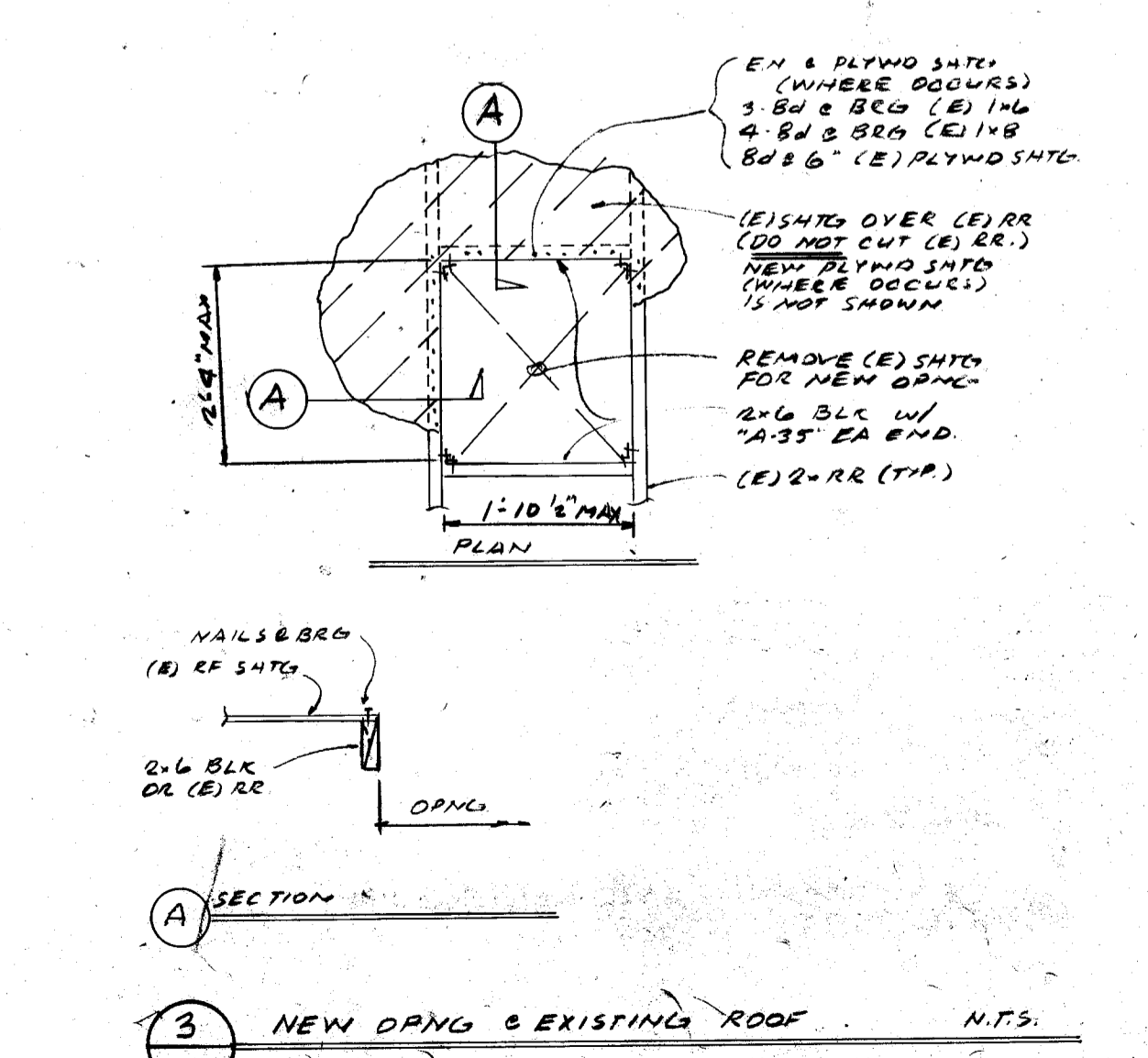
WELDING SHALL BE DONE BY THE ELECTRIC SHIELDED ARC OR SUBMERGED ARC PROCESS. WELDERS SHALL BE CERTIFIED AND WORK DONE IN ACCORDANCE WITH THE STRUCTURAL WELDING CODES, AWS D1.1. FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS. ALL STEEL NOT IN CONTACT WITH CONCRETE SHALL RECEIVE ONE COAT OF SHOP PAINT IN ACCORDANCE WITH THE PROVISIONS OF THE CODE OF STANDARD PRACTICE OF AISC AND SPECIFICATIONS.

ABBREVIATIONS

(E)	= EXISTING
GLB	= GLUED LAMINATED BEAM.
RR	= ROOF RAFTER
CJ	= CEILING JOIST
EN	= EDGE NAIL
LLM	= LONG LEB HORIE.
TYP.	= TYPICAL



SPECIAL SHEET METAL EQUIPMENT CURB



NOTES:

1. DETAIL (A) OCCURS ONLY WHERE THE SIZE OF OPNG. NEEDED WILL NOT FIT WITH TYPICAL FRAM. MEMBERS AS SHOWN IN (B).
2. SEE PLATFORM SECTIONS FOR TYPICAL END SUPPORT OF MEMBERS.

PLATFORM OPNG. DETAILS N.T.S.

NO.	REVISION	DATE	BY

FIRE MARSHAL

IDENTIFICATION STAMP
 Department of General Services
 Office of the State Architect

APR 4 1999

Structural Safety Section
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DATE

REGISTERED PROFESSIONAL ENGINEER
 No. 2520
 Exp. 3/31/92
 STATE OF CALIFORNIA

GENERAL NOTES & SHEATHING SCHEDULE ~ TYPICAL DETAILS

(AIR CONDITIONING)

HORT SCHOOL

BAKERSFIELD CITY SCHOOL DISTRICT
 5207 PARK DRIVE • BAKERSFIELD, CALIFORNIA

JOB NO. 142
 SHEET NO. 51
 SHEET 1 OF 4

90068