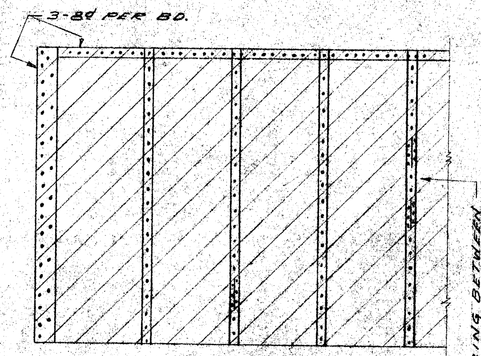
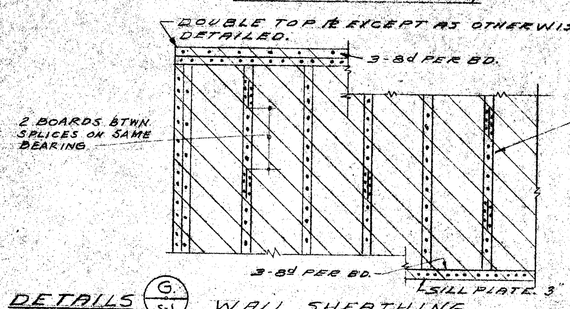


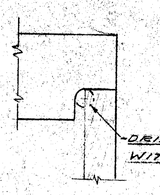
ROOF SHEATHING



DETAILS (G. / S-1) WALL SHEATHING.

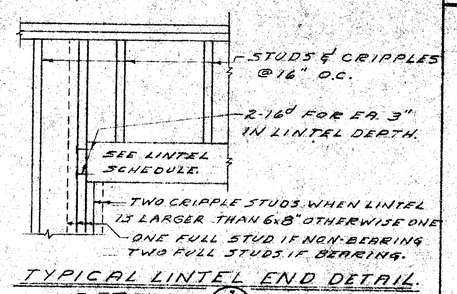
DETAILS FOR 1x6 DIAGONAL SHEATHING.

WHERE 1x8 DIAG. SHEATHING IS USED ADD 1-8d TO EA. BEARING SHOWN ABOVE.



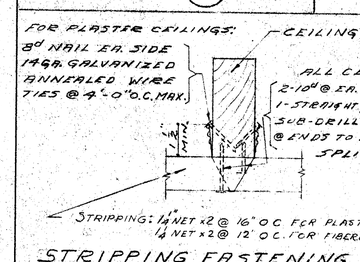
TYPICAL NOTCH FOR WOOD JOIST OR BEAM.

DETAIL (H. / S-1)



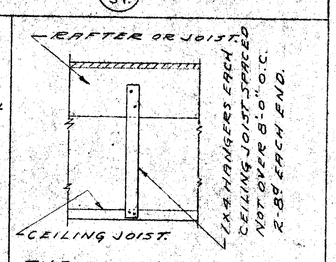
TYPICAL LINTEL END DETAIL.

DETAILS (J. / S-1)



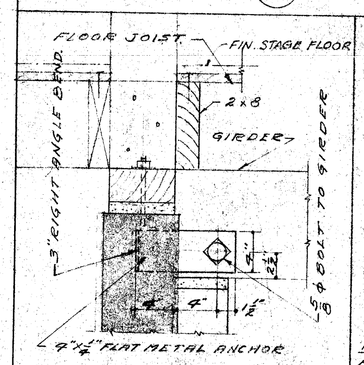
STRIPPING FASTENING FOR SUPPORTING FURRED CEILINGS.

DETAILS (L. / S-1)



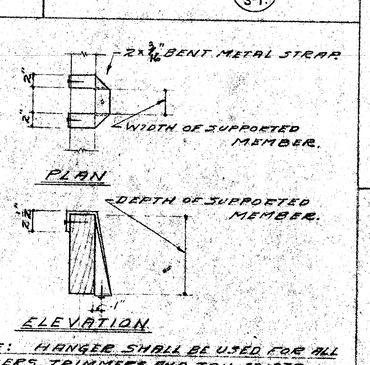
TYPICAL WOOD CEILING JOIST HANGERS.

DETAILS. (K. / S-1)



TYPICAL ANCHOR "A"

DETAILS. (M. / S-1)



NOTE: HANGER SHALL BE USED FOR ALL HEADERS, TRIMMERS AND TAIL JOISTS.

TYPICAL METAL JOIST HANGERS

DETAILS (N. / S-1)

** NAILING SCHEDULE

DETAIL	NAILING *
JOIST OR RAFTERS TO SIDES OF STUDS.	
8" JOIST OR LESS	3-16d
FOR EA. ADDITIONAL 4" IN DEPTH OF JOIST	1-16d
JOISTS OR RAFTERS @ ALL BEARINGS - TOE NAILS EA. SIDE	2-10d
STUDS TO BEARINGS - TOE NAILS EA. SIDE.	2-10d
BLOCKING BETWEEN JOISTS OR RAFTERS.	
TO JOISTS OR RAFTERS - TOE NAILS EA. SIDE EA. END	2-10d
TO JOISTS OR RAFTER BEARINGS - TOE NAILS EA. SIDE	2-10d
SHEATHING @ ALL BEARINGS: 1x6 SEE (G/S-1)	2-8d-MIN.
CROSS BRIDGING - TOE NAILS EA. END	2-8d
HERRINGBONE BLOCKING: TOE NAIL EA. END	2-10d
CEILING STRIPS:	
AT WOOD JOIST - 1 1/2" N x 2 (L/S-1)	2-10d
AT STEEL JOIST 2x3 (K/S-1)	
RIBBONS TO STUDS (1" RIBBONS)	2-8d
DOUBLE TOP PLATES.	
LOWER PLATE TO TOP OF STUD.	2-20d
UPPER PLATE TO LOWER PLATE - STAGGERED	16d @ 18"
MULTIPLE STUDS - STAGGER FOR WIDTH MORE THAN 4"	16d @ 12"
BUILT UP BEAMS - 8" OR LESS IN DEPTH - STAGGERED	16d @ 12"
MORE THAN 8" DEEP - STAGGERED	1/2 ϕ BOLTS @ 24"

*- ALL NAILS SHALL BE COMMON WIRE NAILS.

**- THIS SCHEDULE COVERS MIN. PERMISSABLE.

REFER TO DETAILS FOR SPECIAL NAILING.

FOR DIAG. SHEATHING REFER TO — (G/S-1)

FOR PLYWOOD PANEL NAILING REFER TO — (N/S-1)

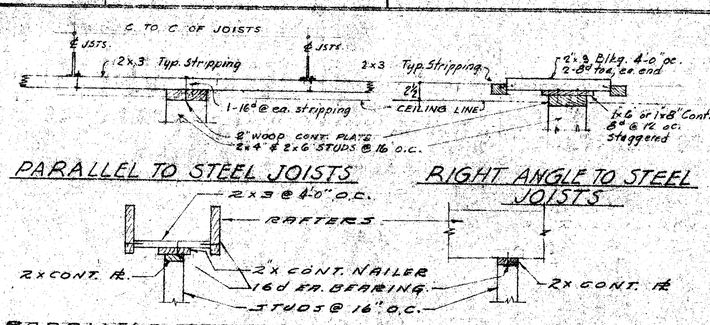
LINTEL SCHEDULE

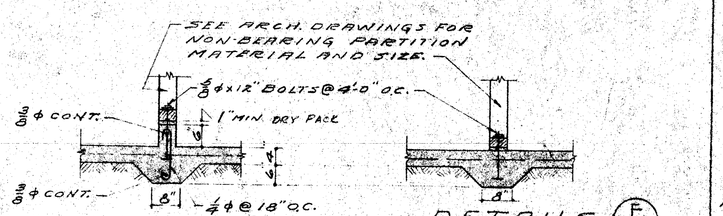
BEARING WALLS		NON BEARING WALLS	
OPENING WIDTH	LINTEL SIZE	OPENING WIDTH	LINTEL SIZE
3'-6" & LESS	2-2"x6"	ALL 3'-0" OR LESS	2-2"x4"
4'-0" TO 6'-6"	6"x6"	3'-6" TO 5'-0"	2-2"x6"

REFER TO DETAILS FOR SPECIAL LINTELS.

WASHER SCHEDULE

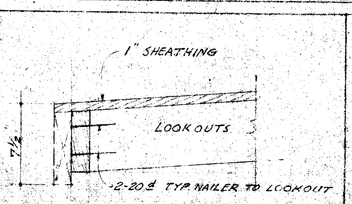
BOLT DIAM.	ROUND WASHER DIAM. M.I.	SQUARE WASHER OF CUT STEEL W/ SIZE & THICKNESS.
1/2 ϕ	2 1/2 x 1/4	2 1/2 x 1/4
5/8 ϕ	2 3/4 x 5/16	2 1/2 x 1/4
3/4 ϕ	3 x 5/16	2 3/4 x 5/16





CURB AT TOILET ROOMS. DETAILS (F. / S-1)

NON-BEARING PARTITION ON SLAB.



TYP. NAILING OF NAILER TO LOOKOUTS

DETAIL (P. / S-1)

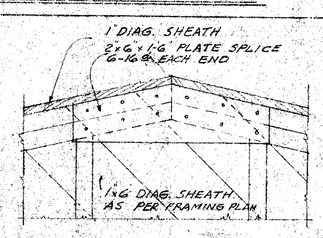
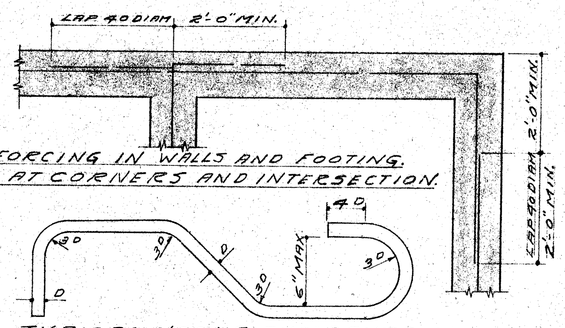
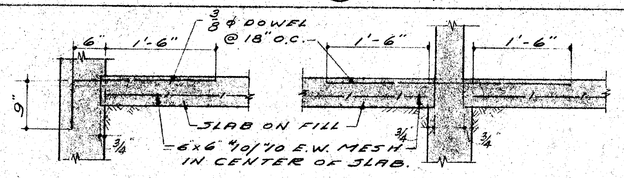


PLATE SPLICE CROSS-WALLS @ RIDGE

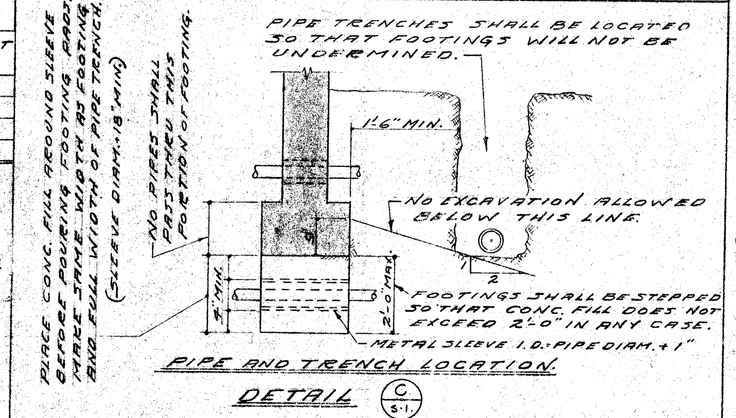
DETAIL (R. / S-1)



DETAIL (A. / S-1)

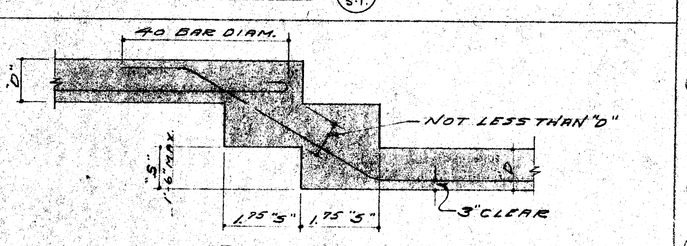


DETAIL (B. / S-1)



PIPE AND TRENCH LOCATION.

DETAIL (C. / S-1)



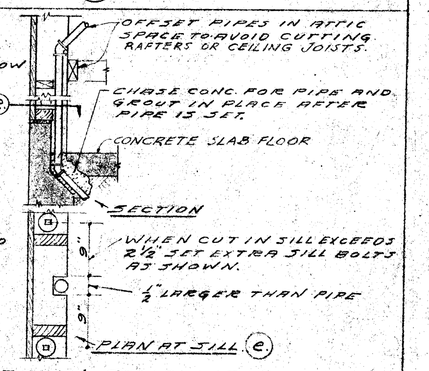
FOOTING STEP

DETAIL (D. / S-1)

STUDS MAY BE NOTCHED NOT TO EXCEED 2" DEEP TO RECEIVE HORIZONTAL RUNS OF VENT PIPES UNDER WINDOW EXCEPT WHERE FURRING OCCURS.

WHERE MAIN REINF. BAR IS CUT AT CHASE INSERT 5/8 ϕ x 4'-0" SPLICE BAR CENTERED ON THE CHASE.

NOTE: LIMITS SET BY THIS DETAIL APPLY ONLY TO BEARING AND DIAG. SHEATHED WALLS.



PIPES IN STUD WALL.

DETAIL (E. / S-1)

GENERAL NOTES.

REINFORCED CONCRETE:

1. SOIL SUPPORTING FOOTING IS SANDY LOAM.
2. SOIL BEARING VALUE USED IN DESIGN ASSUMED TO BE 1200 # D.L.
3. FOOTING SHALL EXTEND AT LEAST 1'-6" INTO NATURAL UNDISTURBED SOIL 1'-6" BELOW FINISH GRADE AND DEEPER WHERE SO INDICATED.
4. ALL CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 2000 #/□" @ 28 DAYS.
5. NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOOTING STEP OFF GROUND.
6. ANCHOR BOLTS AND DOWELS SHALL BE SECURELY HELD IN PLACE BEFORE CONCRETE IS PLACED.
7. SPLICES IN REINF. STEEL SHALL LAP 40 BAR DIAM. MIN. UNLESS OTHERWISE NOTED. SEPARATE BARS 2 1/2" DIAM. O.C. AT ALL LAPS. (1 1/2" CLEAR MIN.)
8. REINFORCING STEEL SHALL HAVE THE MIN. PROTECTIVE CONCRETE COVERING INDICATED BELOW:
   FOOTING PADS 3" SLABS 3"
   WALL STEEL (BELOW GRADE) 3" WALL STEEL (ABOVE GRADE) 1 1/2"
9. SLABS ON FILL OTHER THAN WALKS SHALL BE REINF. WITH 6"x6" 10/10 E.W.M. (ELEC. WELDED WIRE FABRIC) PLACED IN CENTER OF SLAB.
10. DOWEL SLABS TO WALL AS PER TYP. DETAILS.
11. SEE ARCH. AND/OR MECH. DRAWINGS FOR LOCATION OF PIPE, VENT DUCT AND OTHER SIMILAR OPENINGS.
12. ALL WALLS SHALL BE DOWELED TO SUPPORTING FOOTINGS, BEAMS OR SLABS WITH BARS OF THE SAME SIZE AND SPACING AS VERTICAL BARS IN WALLS.
13. ANCHORAGE OF DOWELS SHALL BE EQUIVALENT TO BAR SPLICE.
14. IF NOT PROVIDED FOR IN DETAILS, WALL FOOTINGS SHALL BE 10" DEEP AND 1'-2" IN WIDTH REINF. AS PER TYP. DETAILS.
15. ONE 5/8 ϕ CONT. BAR SHALL BE PLACED AT TOP AND BOTTOM OF ALL WALLS AND 1 1/2" BELOW TOP OF SLABS AT FLOOR LINE UNLESS OTHERWISE NOTED.

STRUCTURAL STEEL:

1. ALL SHOP CONNECTIONS SHALL BE RIVETED OR WELDED.
2. ALL FIELD CONNECTIONS SHALL BE BOLTED, SEE NOTE 1/S-10
3. RIVETS SHALL BE 3/4 ϕ BOLTS SHALL BE 3/4 ϕ UNLESS OTHERWISE NOTED.
4. WHEN STRUCTURES ARE NOT GIVEN OR DETAILS NOT SHOWN, DESIGN CONNECTIONS FOR MEMBERS CARRYING DIRECT STRESS TO DEVELOP THE STRENGTH OF THE MEMBERS.
5. STANDARD BEAM CONNECTIONS OR CONNECTIONS OF EQUAL STRENGTH SHALL BE USED FOR ALL BEAM CONNECTIONS NOT SHOWN.
6. BASE PLATES SHALL BE BEDDED ON DRY PACK OF 1" MIN. THICKNESS. UNLESS NOTED OTHERWISE.
7. ALL STRUCTURAL STEEL SHALL CONFORM TO THE LATEST A.S.T.M. SPECIFICATIONS FOR A.P.I.
8. ALL WELDING SHALL BE DONE BY THE ELECTRIC SHIELDED ARC PROCESS. ALL DEFECTIVE WELDS OR UNSATISFACTORY PARTS SHALL BE CUT OUT AND REPLACED.
9. PROVIDE STITCH RIVETS, IN ALL L MEMBERS.

TIMBER:

1. ALL FRAMING LUMBER TO BE GRADE MARKED DOUGLAS FIR. SEE SPECIFICATIONS.
2. NO STRUCTURAL MEMBERS SHALL BE CUT FOR PIPES ETC. UNLESS SPECIFICALLY SHOWN OR NOTED.
3. HOLES FOR BOLTS SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAM. AS BOLT.
4. MUDSILLS SHALL BE TREATED DOUGLAS FIR SET IN 1" DRY PACK AND BOLTED TO CONC. WITH 5/8 ϕ x 12" BOLTS @ 4'-0" O.C. FOR UNSHEATHED WALLS. 5/8 ϕ x 12" BOLTS @ 4'-0" O.C. UNLESS NOTED FOR SHEATHED WALLS WITH A BOLT WITHIN 9" OF END OF ANY SILL PIECE. SEE DETAILS FOR PLYWOOD PANELS AND SPECIAL ANCHORAGE.
5. STUDS SHALL BE SPACED @ 16" O.C. MAX. AND OF THE SIZE SHOWN ON PLANS.
6. UNLESS OTHERWISE NOTED OPENINGS SHALL BE FRAMED WITH DOUBLE JOISTS OR RAFTERS OF FULL LENGTH.
7. SOLID BLOCKING (2" NOMINAL) SHALL BE PLACED BETWEEN RAFTERS AT ALL SUPPORTS.
8. WOODCROSS BRIDGING NOT LESS THAN 2x3 NOMINAL SHALL BE PLACED BETWEEN RAFTERS WHERE SPAN EXCEEDS 8'-0". THE DISTANCE BETWEEN LINES OF BRIDGING OR BETWEEN BRIDGING AND WALL SHALL NOT EXCEED 8'-0". SEE DETAIL.
9. SPLICES FOR DIAGONAL SHEATHING SEE (G/S-1)

BRICK VENEER:

1. SEE SPECIFICATIONS FOR BRICK AND MORTAR.

LEGEND:

- CONCRETE IN SECTION
- CONTINUOUS WOOD MEMBERS
- WOOD BLOCKING OR FIRESTOPS
- BRICK MASONRY IN SECTION.
- 0'-0" ELEV. BOTTOM OF FOOTING.
- FOOTING STEP
- EL. TOP OF SLAB.

HILLMAN & NOWELL
STRUCTURAL ENGINEERS
ARCHITECTS BUILDING LOS ANGELES 13
Lawrence Nowell

STATE OF CALIFORNIA
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