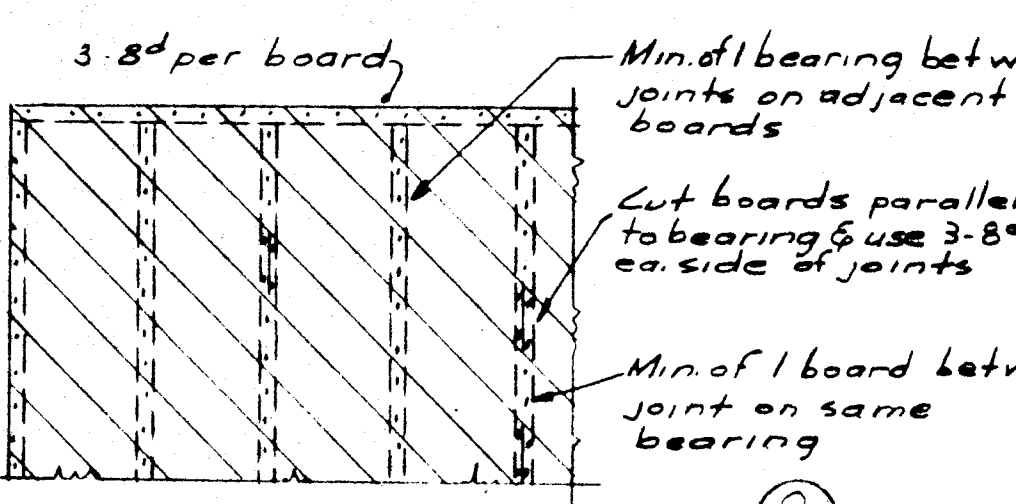
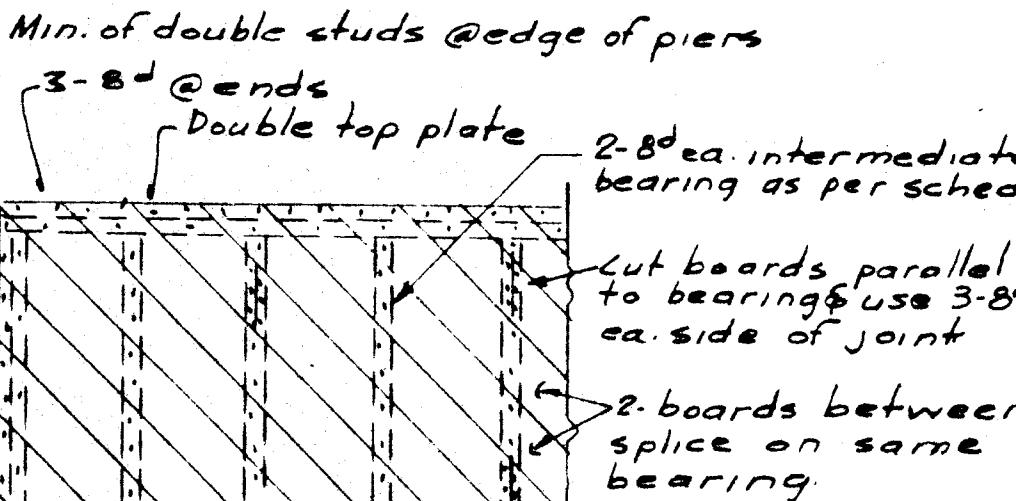


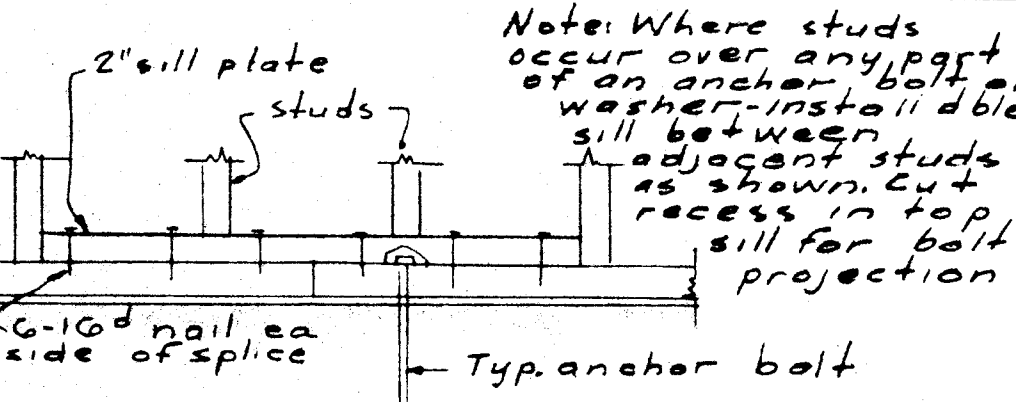
TYP. NOTCH CUT @ BEARING (P 51)



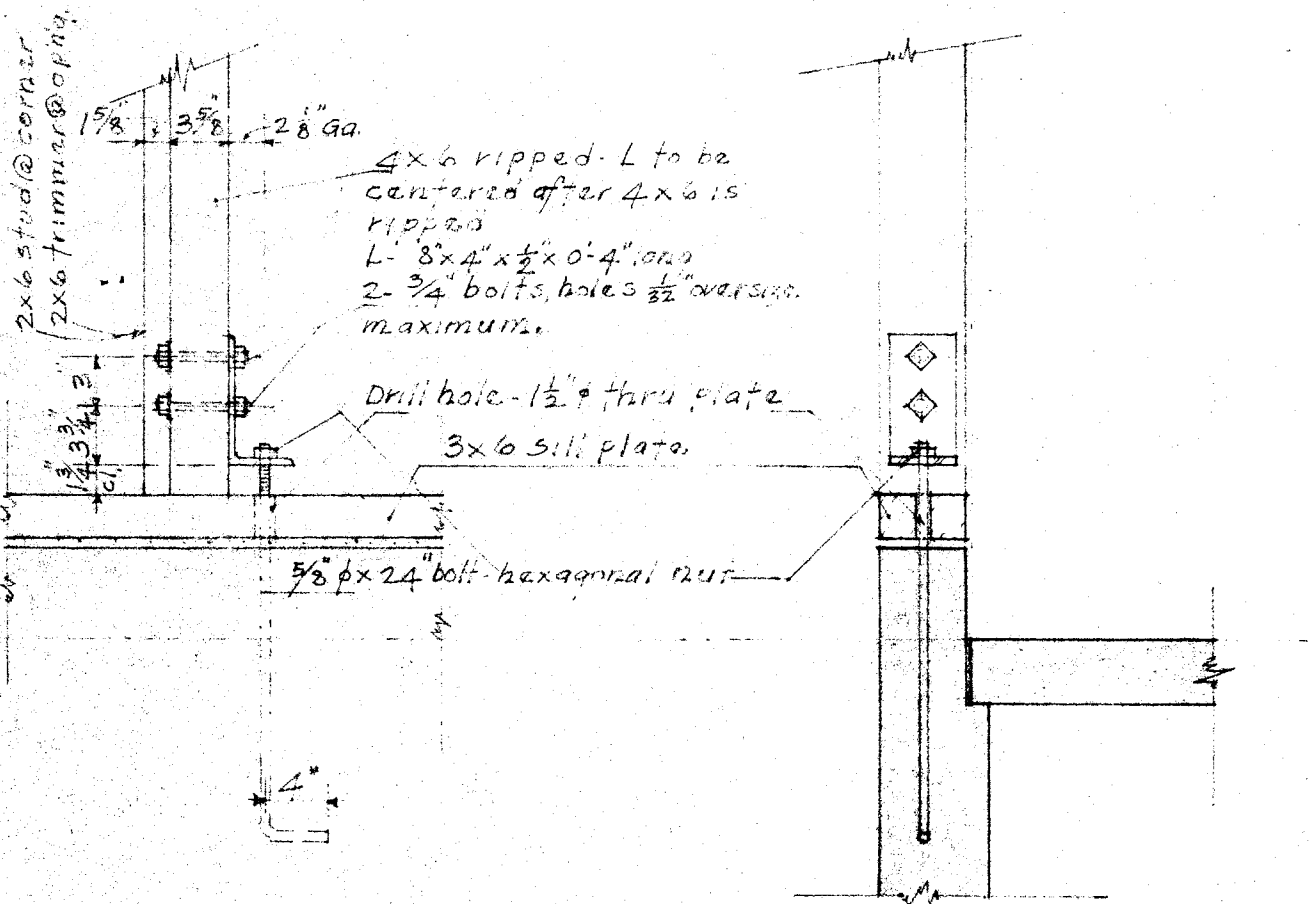
TYP. DIAG. ROOF SHEATHING (A 51)



TYP. DIAG. WALL SHEATHING (A 51)



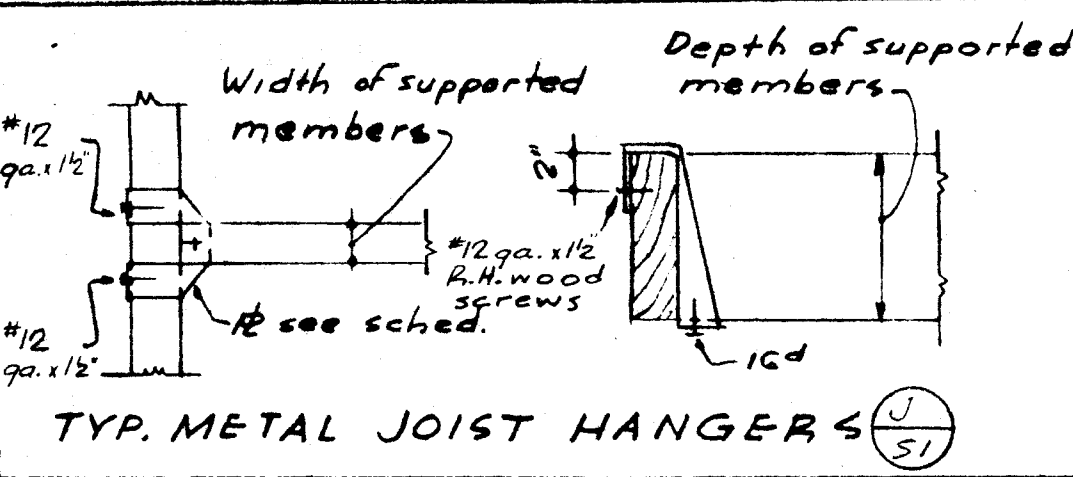
TYP. SPLICE IN SILL PLATE (S 51)



TYP. WOOD CEILING JOIST HANGERS (M 51)

NOTE: To properly locate special anchor bolts, contractor is to check structural framing and locations of architectural openings before placing bolts.

SPECIAL ANCHORS #1 (S 51)

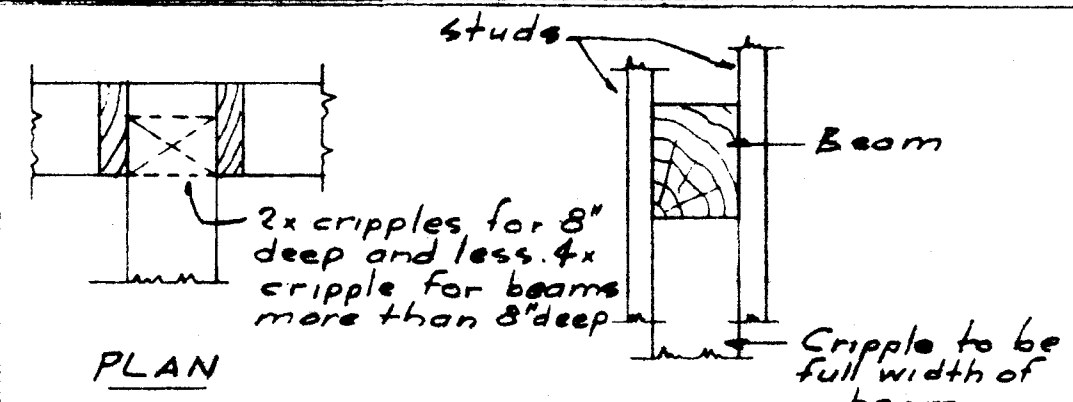


TYP. METAL JOIST HANGERS (J 51)

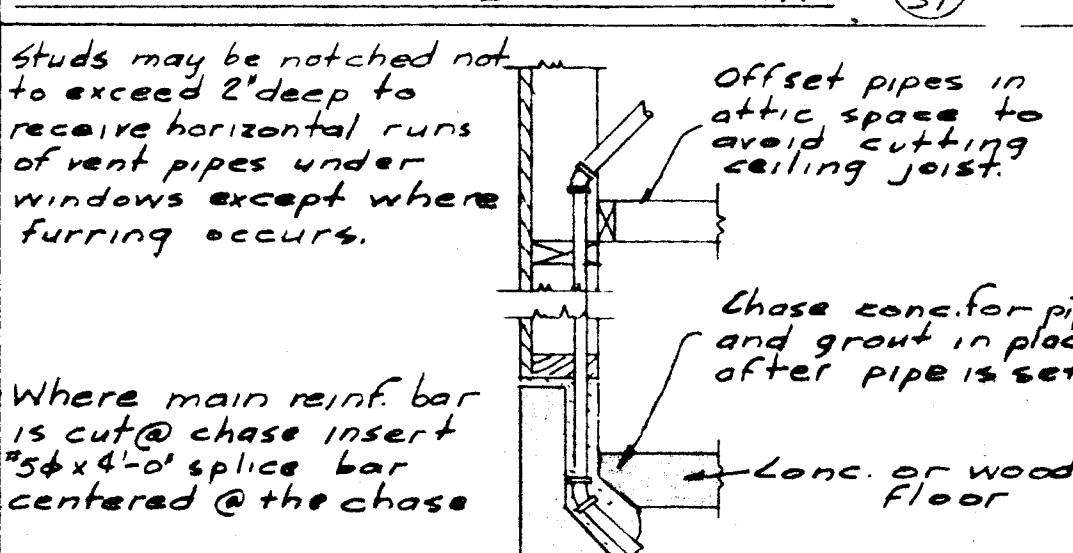
METAL HANGER SCHEDULE

SIZE OF SUPPORTED MEMBER	SIZE OF MATERIAL
2x4 or 3x10 or less	2" x 3/16" #2
3x14 or 4x10 or less	2 1/2" x 3/16" #2
4x14 or 6x10 or less	2 1/2" x 1/4" #2

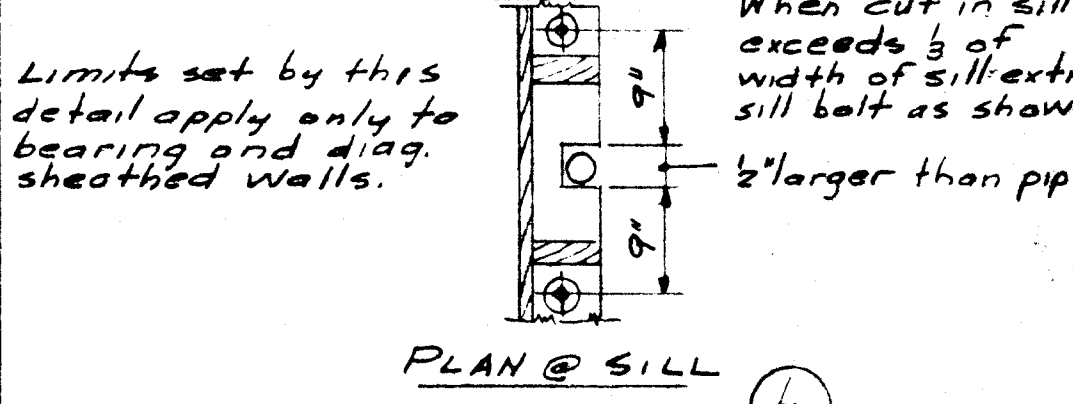
For ceiling joist only use 1/8 inch material 2" wide



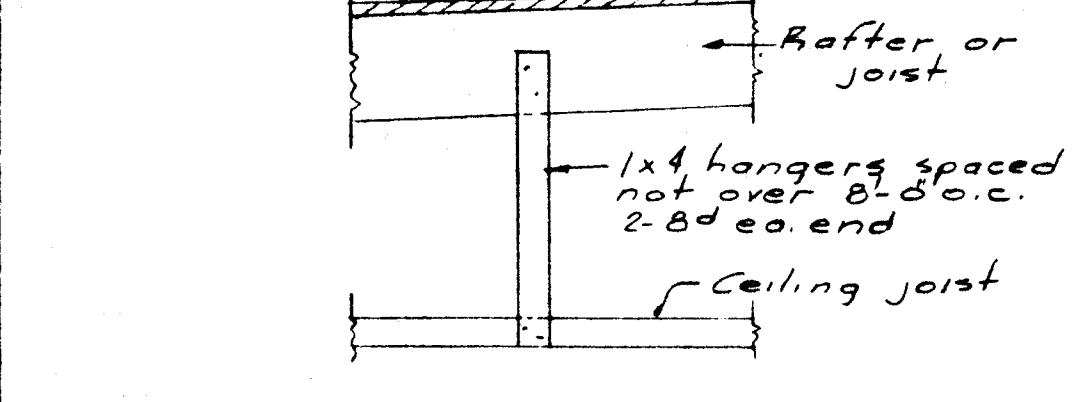
TYP. SUPPORT OF BEAM AT WALL (K 51)



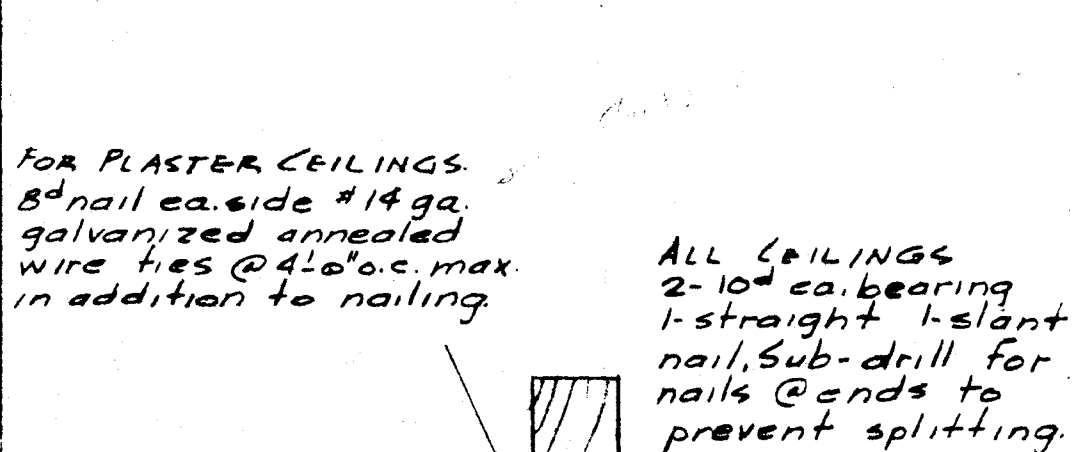
PIPES IN STUD WALL (L 51)



FOOTING STEP (E 51)



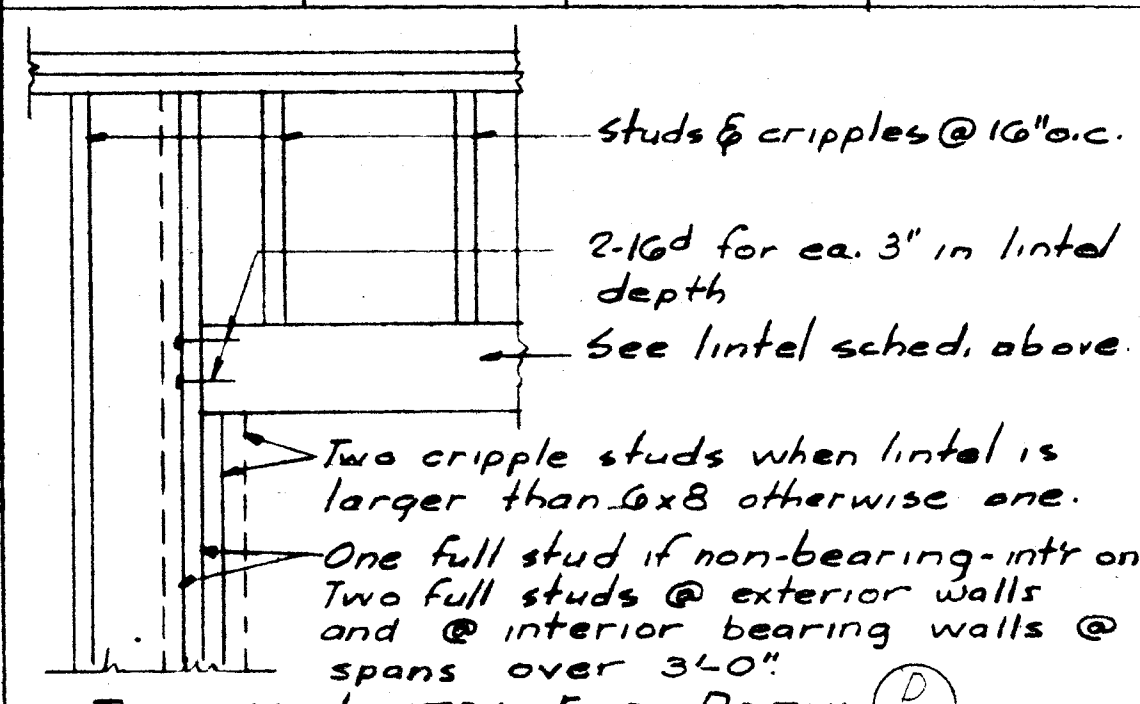
PIPE & TRENCH LOCATION (G 51)



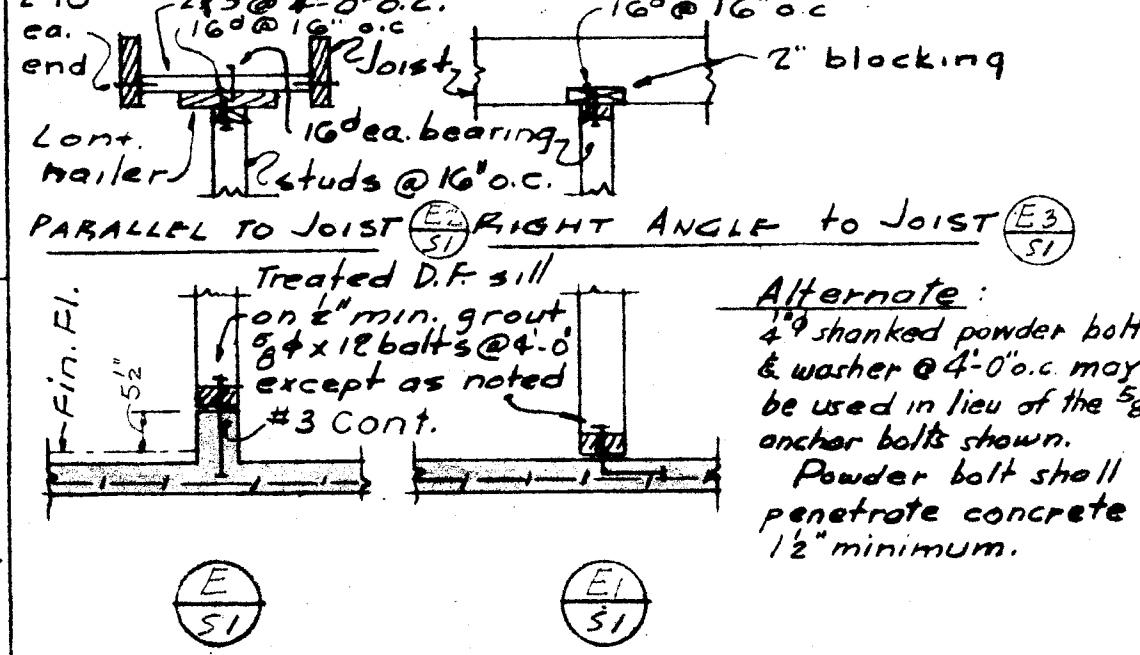
STRIPPING FASTENING (H 51)

LINTEL SCHEDULE

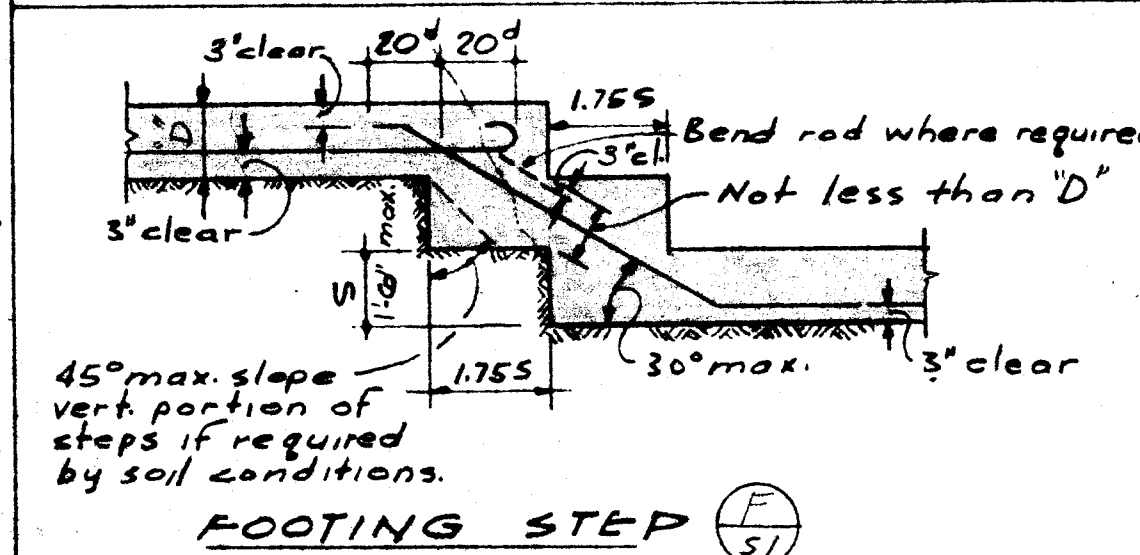
BEARING WALLS		NON-BEARING WALLS	
OPENING SIZE	LINTEL SIZE	OPENING SIZE	LINTEL SIZE
3'-0" or less	2-2x6	3'-0" or less	2-2x4
4'-0" to 7'-2"	6x6	3'-6" to 6'-6"	2-2x6



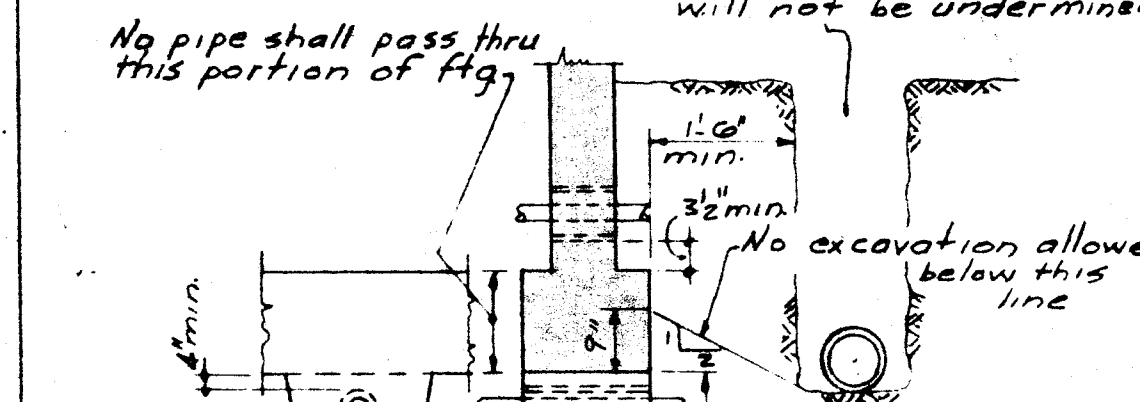
TYPICAL LINTEL END DETAIL (D 51)



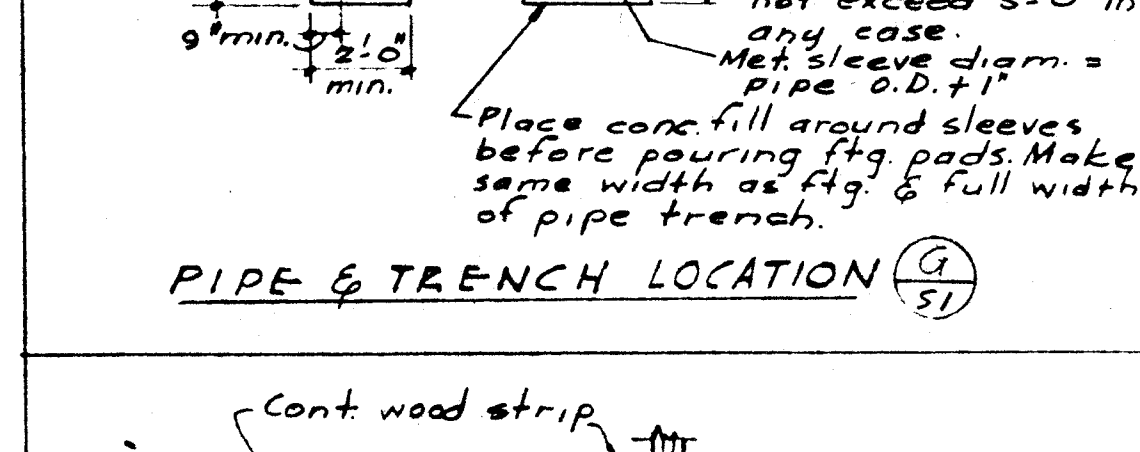
TYP. NON-BEARING PARTITIONS (E 51)



FOOTING STEP (E 51)



PIPE & TRENCH LOCATION (G 51)



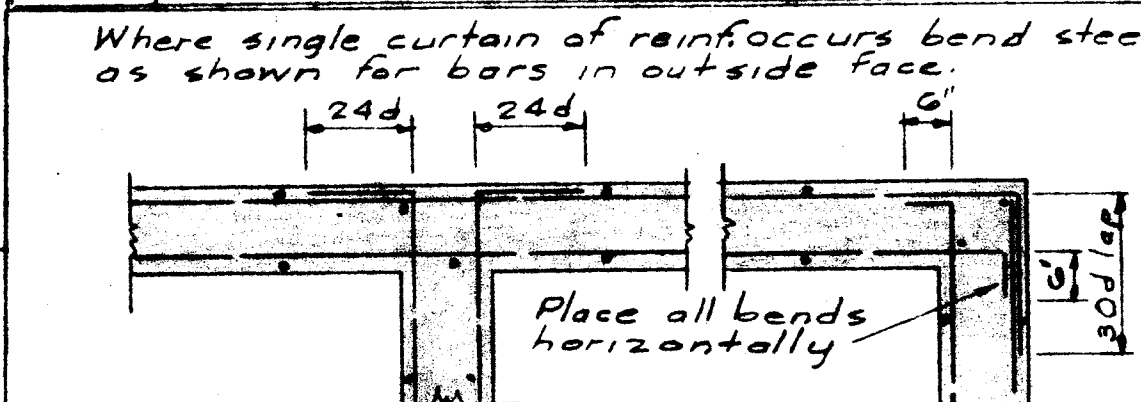
TYP. POUR JOINT (C 51)

* NAILING SCHEDULE

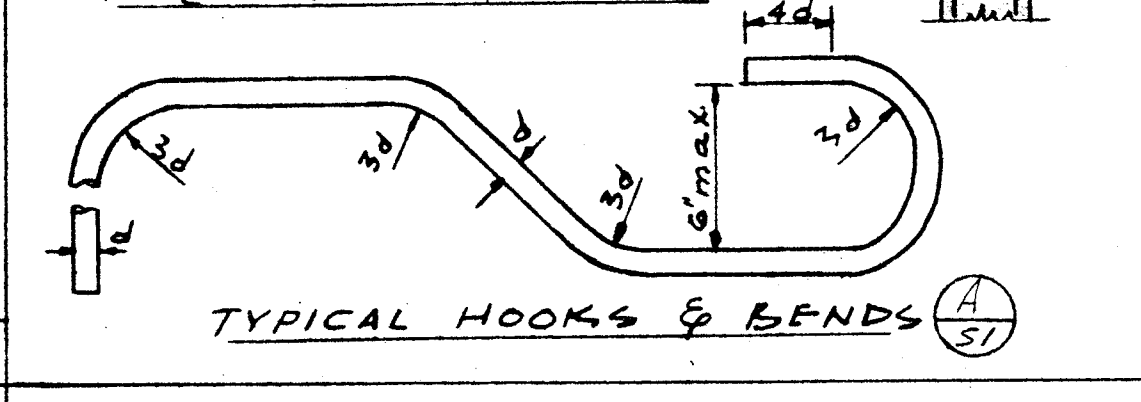
DETAIL		** NAILING	
Joists or rafters to sides of studs -			
Joist depth 8" or less		3-10d	
For ea. additional 4" in depth of joist		1-10d	
Joist or rafters to all bearings - toe nail		2-10d	
Studs, to bearings - toe nails ea. side		2-10d	
Blocking between joist or rafters - toe nail ea. side		2-10d	
To bearings - toe nails ea. side		2-10d	
1/2" blocking at all bearings		2-8d	
Crossbridging - toe nails ea. end		2-8d	
Herringbone blocking		2-10d	
1/3" ceiling strips to underside of joist		2-8d	
1 1/2" (min.) x stripping		2-10d	
Double top plates			
Lower plate to top of studs		2-20d	
Upper plate to lower plate - staggered		1-10d @ 18" o.c.	
Multiple studs staggered for width		more than 4" 10d @ 12" o.c.	
Built up beams 8" or less in depth		staggered 10d @ 12" o.c.	
More than 8" deep - staggered		3/4" bolts @ 24" o.c.	
Double joists under partitions			
Where not blocked apart - staggered		10d @ 12" o.c.	
Where blocked apart - staggered		2-20d	
1/2" cripples to studs		2-8d	
Covers min. permissible conns. only. Refer to details for special nailing.			
All nails shall be common wire nails. Where possible, nails driven perpendicular to the grain shall be used instead of toe nails.			

WASHER SCHEDULE

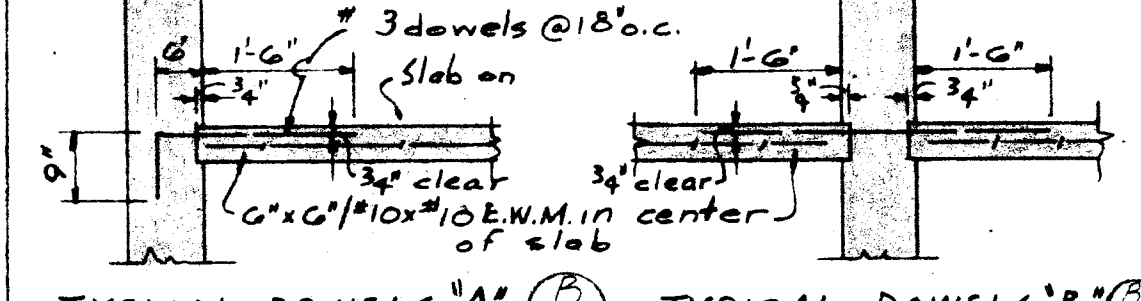
BOLT DIA.	ROUND WASHER DIA.	SQUARE WASHER OF CUT STEEL SIZE AND THICKNESS
3/8"	2 1/2" x 4"	2 1/2" x 4"
1/2"	2 3/4" x 5"	2 3/4" x 4"
5/8"	3" x 7"	2 3/4" x 5"
3/4"	3 1/2" x 7"	3 1/4" x 5"
1"	4" x 8"	3 1/2" x 8"



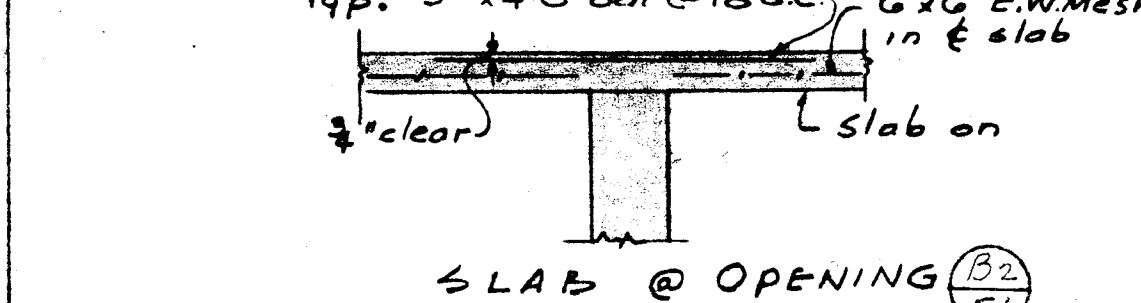
REINFORCING IN WALLS & FOOTING PADS @ CORNERS & INTERSECTIONS (A 51)



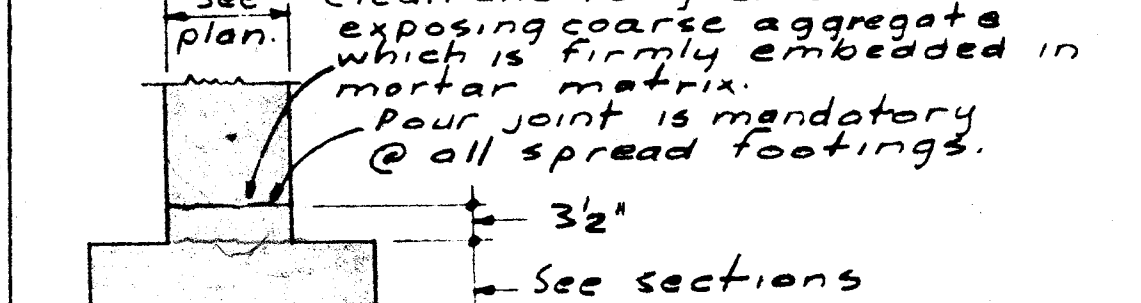
TYPICAL HOOKS & BENDS (A 51)



TYPICAL DOWELS 'A' (B 51) TYPICAL DOWELS 'B' (B 51)



SLAB @ OPENING (B 51)



TYP. POUR JOINT (C 51)

GENERAL NOTES

- REINFORCED CONCRETE -
- Soil supporting footing is clay loam
 - Soil bearing value used in design assumed to be 1200 #/sq. ft. D+L
 - Footings shall extend at least 1'-0" into natural undisturbed grade or 1'-6" below finish grade, whichever is greater
 - No brick or porous material shall be used to support footing steel off the ground.
 - All concrete shall have a minimum ultimate compressive strength of 2000 #/sq. in. at 28 days unless otherwise noted.
 - Anchor bolts and dowels shall be securely held in place before concrete is poured.
 - Splices in reinforcing steel shall lap 30 bar diam. min. also column dowels shall lap 30 bar diam. min. unless otherwise noted.
 - Separate bar and bar laps of splices 2x bar diam. min. but in no case less than 1'-0" clear, except for column bar splices or dowels which shall be separated 1' min. clear. Wall steel may be wired together.
 - Reinforcing steel shall have the minimum protective conc. covering indicated below:

Footings	3"	Wall steel above grade	1"
1/2" column (main steel)	2"	Slabs on form	1/2"
Spiral wrapped col. (face of spiral)	1 1/2"	Beams sides, top & soffits	1 1/2"
Wall steel below grade	2"	Joists sides, top & soffits	1"
 - Slabs on fill other than walks shall be reinforced with 6x6 #10 @ 10" W.M. Mesh at mid depth of slab.
 - Dowel plates shall conform to typical details.
 - See Architectural and/or Mech. drawings for location of pipe vents, ducts, and other similar openings.
 - All walls shall be doweled to supporting footing beams or pads with bars of the same size and spacing as vertical bars in walls.
 - Anchorage of dowels shall be equivalent to bar splice.
 - If not provided for in details wall footing pad shall be 10" thick and in width and depth as per typical details.
 - Reinforcing steel for roof shall conform with ASTM Spec. A305-50T.

STRUCTURAL STEEL -

- When stress is not given or details not shown design connections for members carrying direct stress to develop the strength of the members.
- A.I.S.C. standard beam connections or connections of equal strength shall be used for all beam connections not shown.
- Base plates shall be bedded on dry-rack 1" minimum thickness.
- All welding shall be done by electric shielded arc process.
- The following steel requires testing: All members of steel joists.
- No thread bearing will be permitted on bolted connections, to avoid such bearing washers or the equivalent shall be used.
- All framing lumber to be grade marked D.F. see specs.
- Sill plates shall be bolted to concrete with 3/4" x 12" bolts @ 4'-0" o.c. max. unless otherwise noted. At all corners, intersections and door openings place a bolt 9" max. from end of sill plate. Splice sills as shown in detail (S 51) when bolts are more than 9" from each side of joint.
- Where stud partitions join concrete or masonry walls the end and stud shall be anchored thereto with 3/4" bolts near top and bottom and at each row of blocking. Such bolts shall be embedded in the wall not less than 3" of wall thickness.
- Studs shall be spaced @ 16" o.c. max. and of the size shown on plans.
- No structural members shall be cut for pipes, vents, ducts, and other similar openings except as detailed or specified.
- Joist and rafters shall be spliced at supports only except as detailed. Splices shall lap not less than 1'-0" with a min. 3-10 nails.
- Two inch solid blocking shall be placed between all joist and rafters at all supports and under all partitions unless otherwise detailed.
- 2x3 crossbridging shall be placed between joist or rafters where spans exceed 8'-0". The distance between lines of bridging between joists and rafters shall not exceed 8'-0" and under in depth. Solid bridging shall be placed between joist or rafters at all points of support.
- All bolts shall be fitted with malleable iron or steel plate washers. Holes for bolts shall be bored with a bit of the same nominal diameter as the bolt.

LEGEND

- | | | | |
|--|------------------|--|-----------------------------------|
| | Exist. conc. | | Footing step |
| | Conc. in sect | | Elev. at bottom of footing. |
| | Wood blocking | | Detail letter. |
| | Cont. wood | | Sheet number. |
| | Brick in section | | E.W.M. Electric welded mesh. |
| | | | Nominal finished floor elevation. |