



- E. WALLS NOTED AS FILLED SOLID SHALL HAVE CORES OF BLOCK FILLED WITH PEA GRAVEL CONCRETE IN FOUR COURSE MAXIMUM LIFTS.
- F. ALL OPENINGS IN WALLS TO BE PROVIDED WITH STEEL OR PRECAST LINTELS. (SEE LINTEL SCHEDULE)
- G. BRACE AND SHORE ALL WALLS AND LINTELS AS REQUIRED DURING CONSTRUCTION.
- H. WRAP COLUMNS WITH 1/2" PLUS OR MINUS FIBERGLASS WHEN ENCASED IN MASONRY.
- I. FILL WALL FOR JOIST BEARING WITH MORTAR MINIMUM 2'-0" DEEP CONTINUOUS FOR "H" SERIES JOIST.
- J. PROVIDE CONTROL JOINTS AT 30' MAXIMUM ON CENTER IN ALL MASONRY WALLS.

- 4 LINTEL SCHEDULE**
- A. FOR ALL OPENINGS NOT SPECIFICALLY SHOWN IN PLAN, (OPENINGS FOR MECHANICAL TRADES, OPENINGS IN BEARING AND NON BEARING WALLS, ETC.) PROVIDE L-1, L-2, P-1 OR P-2 AS DIRECTED BY ARCHITECT.
 - B. ALL MULTIPLE ANGLE LINTELS SHALL BE WELDED AT ENDS AND 1/3 POINTS.
 - C. SHORE LINTELS TO PREVENT ROTATION DURING CONSTRUCTION.
 - D. ALL LINTELS TO HAVE MINIMUM 8" SOLID BEARING UNLESS NOTED OTHERWISE.

MARK MATERIAL REMARKS

L-1	1-4x3 1/2x5/16 Angle	For Openings Up To 6'-0"
	Each 4" Wall Thickness	To 10'-0"
L-2	1-6x3 1/2x5/16 Angle	For Openings From 6'-1"
	Each 4" Wall Thickness	To 10'-0"
P-1	8" Min. Deep Precast 1-#3	For Openings Up To 6'-0"
	T & B For Each 4" Wall	Thickness Or Fraction
	Thereof	
P-2	16" Min. Deep Precast 1-#6	For Openings From 6'-1"
	T & B For Each 4" Wall	To 15'-0"
	Thickness Or Fraction	
	Thereof	

- 5 REINFORCED MASONRY:**
- A. SEE SPECIFICATIONS.
 - B. WALL TO BE REINFORCED WITH #5 @ 8 VERT.
 - C. WALLS SHALL BE CONSTRUCTED WITH BLOCK HAVING WEBS IN FULL ALIGNMENT IN COMPLETED WALL.
 - D. ALL SPLICES IN REINFORCING TO LAP 36 BAR DIA. MIN.
 - E. FILL CELLS OF BLOCK CONTAINING REINFORCING WITH PEA GRAVEL CONCRETE IN SIX COURSE MAXIMUM LIFTS. CONCRETE TO CONTAIN AN APPROVED WATER REDUCER.
 - F. SHORE WALLS UNTIL CONCRETE SLABS ARE POURED AND CURED.

- 6 STRUCTURAL STEEL:**
- A. SEE SPECIFICATIONS.
 - B. ALL CLIP AND CONTINUOUS ANGLES ATTACHED TO STRUCTURAL STEEL BEAMS OR COLUMNS SHALL BE PROVIDED WITH 1/2" ROUND BOLTS AND WASHER AND 1 1/4" ROUND HOLE.
 - C. PROVIDE 1/2" ROUND BOLTS FOR ERECTION OF CLIP AND CONTINUOUS ANGLES.
 - D. AFTER ADJUSTMENT AND FINISHED ALIGNMENT, PROVIDE 2" OF 3/16" FILLET WELD AT EACH BOLT LOCATION UNLESS OTHERWISE NOTED.

- 7 STEEL JOISTS:**
- A. SEE SPECIFICATIONS.
 - B. ALL WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH A.W.S.
 - C. BRIDGING FOR FLOOR JOISTS 14" AND DEEPER TO BE HORIZONTAL AND DIAGONAL.
 - D. BRIDGING FOR FLOOR JOISTS 14" AND DEEPER TO BE HORIZONTAL AND DIAGONAL.
 - E. FOR BEAMS WHICH HAVE JOISTS BEARING ON ONE SIDE ONLY EXTEND JOIST SEAT 1/2" MIN. BEYOND BEAM CENTER LINE.
 - F. WHEN BEAM FLANGE IS NOT AT LEAST TWICE THE MINIMUM BEARING DIM. STAGGER JOISTS AS REQUIRED.
 - G. 4 FOOT-KIPS (ROOF), 6 FOOT-KIPS (FLOOR), POSITIVE OR NEGATIVE, IS THE QUANTITY OF END MOMENT FOR WHICH THE JOIST ON CENTER LINE OF COLUMN MUST BE DESIGNED UNLESS OTHERWISE NOTED THUS $\frac{M}{L}$ ON PLAN. JOIST SUPPLIER SHALL PROVIDE B.C. EXTENSIONS OR LOOSE MATERIAL AND ADDITIONAL BRIDGING AS REQUIRED FOR THE DEVELOPMENT OF THE REQUIRED MOMENT. FINAL CONNECTION OF JOIST B.C. TO BEAMS OR COLUMNS SHALL BE MADE AFTER ROOF OR FLOOR DECK HAS BEEN INSTALLED. COMPUTATIONS SEALED BY A REGISTERED P.E. SHALL BE SUBMITTED WITH FIRST SET OF SHOP DRAWINGS.

- 8 STEEL STAIRS:**
- A. SEE SPECIFICATIONS.
 - B. ALL STAIR FRAMING INCLUDING RAILINGS SHALL BE DESIGNED BY THE STAIR MANUFACTURER AND SHALL HAVE CAPACITY TO SUPPORT THE FOLLOWING DESIGN LOADS:
STAIRS - DEAD LOAD - AS REQUIRED BY CONSTRUCTION
LIVE LOAD - 100 PSF OR 300 POUND CONCENTRATED LOAD AT CENTER OF TREAD
RAILINGS - 50 POUNDS/FOOT OR 200 POUNDS CONCENTRATED, APPLIED HORIZONTALLY & VERTICALLY TO TOP RAIL.
 - C. PROVIDE HANGERS, CLIP ANGLES, ETC. AS REQUIRED FOR SUSPENSION OF STAIR FRAMING FROM STRUCTURAL STEEL FRAME.
 - D. STAIR SUPPLIER'S SHOP DRAWINGS SHALL CONTAIN A CERTIFICATION SEALED BY A REGISTERED P.E., STATING THAT THE STAIR COMPONENTS HAVE BEEN DESIGNED TO SUPPORT THE SPECIFIED LOADS.

- 9 RAILINGS:**
- A. ALL RAILINGS AND CONNECTIONS OF SAME TO STRUCTURE AT BALCONIES, STAIRWELLS AND OTHER FLOOR OPENINGS BOTH EXTERIOR AND INTERIOR SHALL BE DESIGNED BY THE RAILING MANUFACTURER AND SHALL HAVE CAPACITY TO SUPPORT THE FOLLOWING DESIGN LOADS: 50 POUNDS/FOOT, OR 200 POUNDS CONCENTRATED, APPLIED HORIZONTALLY & VERTICALLY TO TOP RAIL.
 - B. RAILING MANUFACTURER'S SHOP DRAWINGS SHALL CONTAIN A CERTIFICATION SEALED BY A REGISTERED P.E. STATING THAT THE RAILING COMPONENTS HAVE BEEN DESIGNED TO SUPPORT THE SPECIFIED LOADS.

- 10 DESIGN LOADS**
- A. THE STRUCTURE WAS DESIGNED FOR THE LIVE LOADS AS SHOWN BELOW AND DEAD LOADS AS REQUIRED BY CONSTRUCTION IN ACCORDANCE WITH B.O.C.A. 84. ANY INCREASE IN THESE LOADINGS, DUE TO CHANGE IN FUNCTION, CONSTRUCTION MATERIALS, ETC. SHALL HAVE WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
 - B. THE BASIC STABILITY OF THE STRUCTURE IS DEPENDENT UPON THE DIAPHRAGM ACTION OF FLOORS, WALLS & ROOF ACTING TOGETHER. CONTRACTOR TO PROVIDE ALL GUYS, BRACES, STRUTS, ETC. AS REQUIRED TO ACCOMMODATE ALL LIVE, DEAD AND WIND LOADS UNTIL ALL FINAL CONNECTIONS BETWEEN THESE ELEMENTS ARE MADE.
 - C. MECHANICAL UNITS WITH WEIGHTS SHOWN IN PLAN AND SUPPORTED BY THE STRUCTURE WERE CONSIDERED IN THE DESIGN OF THE STRUCTURE. ANY ADDITIONAL MECHANICAL EQUIPMENT NOT SHOWN ON STRUCTURAL DRAWINGS AND HAVING A WEIGHT IN EXCESS OF 400 POUNDS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
 - D. ALL LOADS SHOWN BELOW ARE IN POUNDS PER SQUARE FOOT.
ROOF 30 + SNOW LOAD BUILDUP AS REQ. BY CODE.
3RD FLOOR 75
2ND FLOOR 75

- 11 METAL DECK**
- A. SEE SPECIFICATIONS.

- 12 LIGHT GAGE METAL FRAMING:**
- A. SEE SPECIFICATIONS.
 - B. ALL STRUCTURAL LIGHT GAGE FRAMING (STUDS, JOISTS AND TRACKS) SHALL BE A MINIMUM OF 20 GAGE AND SHALL BE GALVANIZED. STRUCTURAL LIGHT GAGE COMPONENTS SHALL HAVE THE MINIMUM PROPERTIES LISTED BELOW UNLESS OTHERWISE NOTED:
- | | MIN. I (IN ²) | MIN. Q | MIN. MOM. REST. (IN-#) | SIZE |
|--------|---------------------------|--------|------------------------|------|
| STUDS | 0.67 | 0.745 | 6,000 | 4" |
| TRACKS | .58 | | 3,000 | 4" |
- SEE PLAN AND SECTIONS FOR $\frac{M}{L}$ MAXIMUM SPACING REQUIREMENTS.
- C. ALL CONNECTIONS OF STUD TO STUD, STUD TO TRACK AND STUD TO FRAME SHALL BE WELDED. ALL SUCH CONNECTIONS SHALL BE MADE USING 2-1/8" FILLET WELDS 1 1/2" LONG UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - D. ALL WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH THE A.W.S.
 - E. PROVIDE DOUBLE JAMB STUD EACH END OF LINTEL UNLESS OTHERWISE NOTED.
 - F. WELD STUD TO TRACK. VOIDS SHALL NOT BE PERMITTED AT TOP OR BOTTOM OF STUD AT TRACK (TYPICAL).
 - G. PROVIDE HORIZONTAL BRIDGING AT MID HEIGHT OF ALL WALLS UNLESS OTHERWISE NOTED.

- 1 FOUNDATIONS:**
- A. SEE SPECIFICATIONS.
 - B. BOTTOMS OF ALL FOOTINGS SHALL BE 1'-0" MIN. BELOW EXISTING GRADE AND/OR COMPACTED FILL, WHICHEVER IS HIGHER.
 - C. BOTTOMS OF EXTERIOR FOOTINGS SHALL BE 2'-6" MINIMUM BELOW FINISH GRADE.
 - D. BASEMENT AND FOUNDATION WALLS ARE DEPENDENT UPON THE COMPLETED INSTALLATION OF FLOORS AND ROOFS FOR THEIR STABILITY. CONTRACTOR SHALL NOT PLACE BACKFILL UNTIL THESE ELEMENTS ARE COMPLETELY INSTALLED, OR CONTRACTOR SHALL PROVIDE SHORING AND BRACING.
 - E. A SOIL BEARING CAPACITY OF 3000 P.S.F. WAS USED FOR FOOTING DESIGN. IF SOIL OF THIS CAPACITY IS NOT ENCOUNTERED AT ELEVATIONS INDICATED, FOOTINGS SHALL BE INCREASED IN SIZE OR LOWERED AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

- 2 CONCRETE:**
- A. SEE SPECIFICATIONS.
 - B. REINF. FOR FOOTINGS AND OTHER CONCRETE USING EARTH FORMS SHALL HAVE 3" CONCRETE COVER.
 - C. REINF. FOR CONCRETE EXPOSED TO GROUND OR WEATHER AFTER REMOVAL OF FORMS SHALL HAVE 2" CONCRETE COVER.
 - D. REINF. FOR ALL OTHER CONCRETE SHALL HAVE 3/4" CONCRETE COVER FOR SLABS AND WALLS AND 1 1/2" CONCRETE COVER FOR BEAMS, GIRDERS & COLUMNS.
 - E. FOR UNEXPOSED SLABS SUPPORTED ON METAL DECK, CONSTRUCTION JOINTS SHALL BE ACCOMPLISHED UTILIZING SPLIT WOOD FORMS. ALLOW MESH TO EXTEND THRU FORM INTO NEXT ADJACENT FOUR AT MID HEIGHT OF SLAB.

- 3 MASONRY:**
- A. SEE SPECIFICATIONS.
 - B. FILL CELLS OF BLOCK SOLID WITH MORTAR IN COURSE DIRECTLY BELOW ALL CHANGES IN THICKNESS AND BOND.
 - C. ALL BRICK, BLOCK, OR ANY COMBINATION SHALL HAVE GALVANIZED TRUSS TYPE DUR-O-WAL AT 16" MAXIMUM O/C WITH CORNER AND "T" PIECES UNLESS NOTED. PARAPET WALLS SHALL HAVE DUR-O-WAL AT 8" O/C. ALL SPLICES SHALL LAP 6" MIN. PROVIDE AN ADDITIONAL ROW OF DUR-O-WAL ABOVE AND BELOW ALL OPENINGS AND EXTEND 2'-0" BEYOND JAMBS. STOP DUR-O-WAL EACH SIDE OF ALL CONTROL AND EXPANSION JOINTS.
 - D. ALL BLOCK UNITS SHALL BE SUCH THAT WEBS ARE IN ALIGNMENT AND SHALL HAVE FULL BED OF MORTAR INCLUDING CROSSWEBS.

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