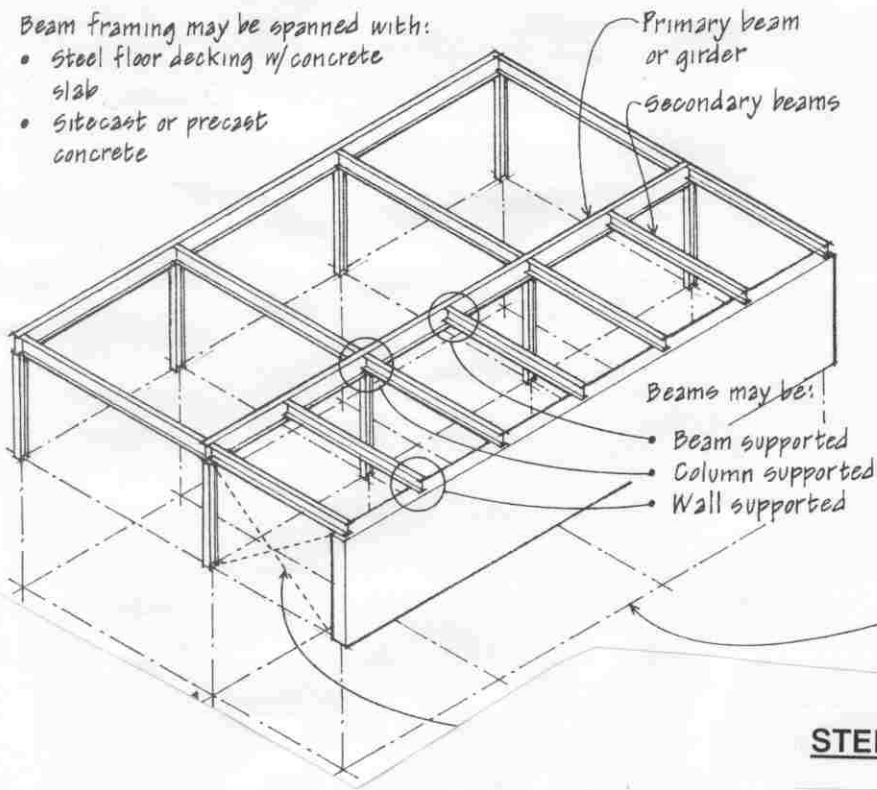


Beam framing may be spanned with:

- Steel floor decking w/ concrete slab
- Sitecast or precast concrete

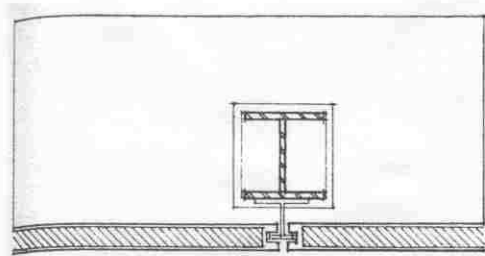


Structural steel elements are used to construct a skeleton frame similar to wood post-and-beam construction. Structural steel, however, is flexible enough to frame both low-rise buildings and tall structures.

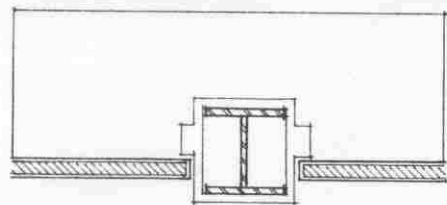
STEEL-FRAMED STRUCTURES

Steel framing is most efficient when it is laid out along a regular grid.

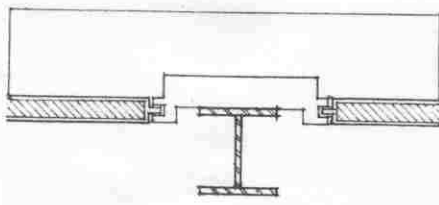
STEEL COLUMN TYPES



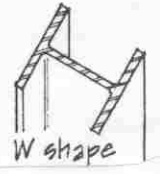
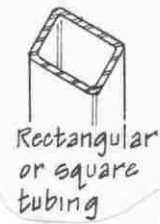
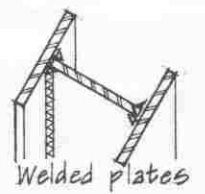
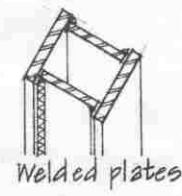
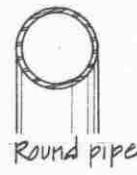
Column behind the wall



Column in the wall plane



Column in front of the wall



WALL VS. COLUMN LOCATIONS

WALL TO COLUMN CONNECTIONS ARE NOT SHOWN ON THE FLOOR PLAN BUT ARE LEFT TO WALL SECTIONS AND DETAILS.

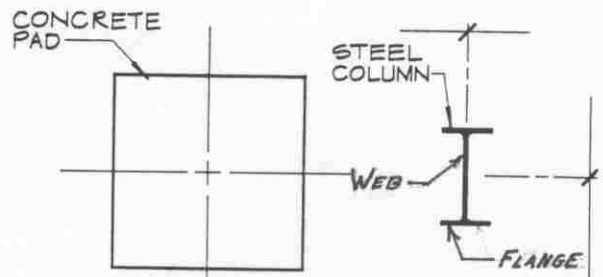
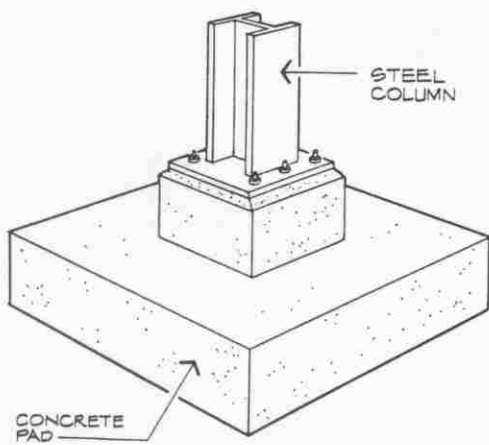
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STEEL-FRAME STRUCTURES

SEMESTER: _____

CLASS HANDOUT: _____

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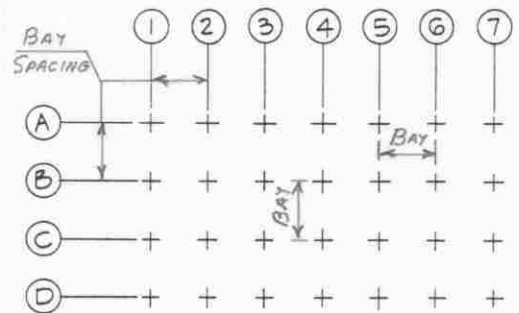
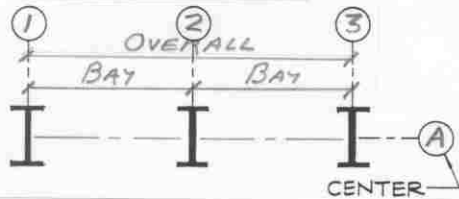
COLUMN LOCATIONS

- ATTACH COLUMN BUBBLES TO COLUMN LINES FOR REFERENCE IDENTIFICATION.
- DO NOT SHOW FOUNDATIONS.
- DIMENSION BAY SPACING BETWEEN EACH COLUMN LINE.
- LEAVE SPACE FOR WALLS OPENING DIMENSION STRINGS.

STEEL FRAME LAYOUT

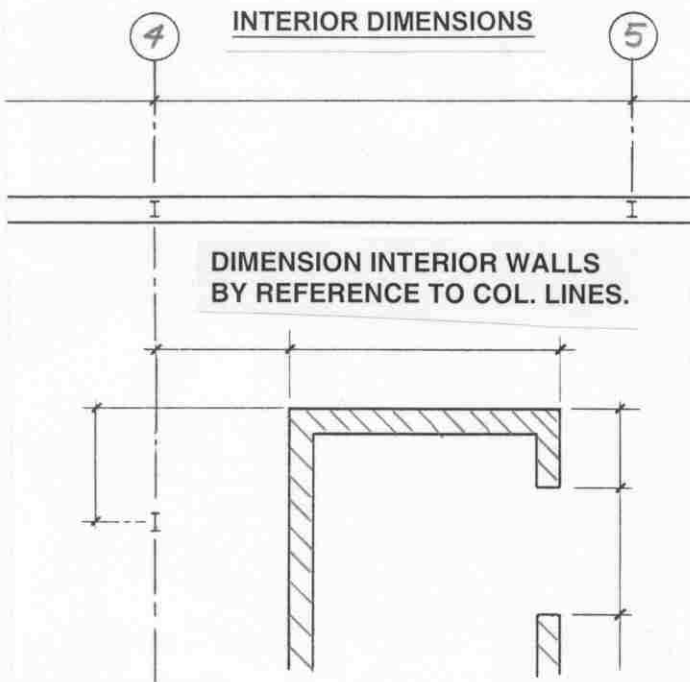
- SHOW COLUMN SIZES TO SCALE WITH NOMINAL DIMENSIONING.
- EXTEND COLUMN CENTERLINES FOR REFERENCE IN BUILDING.
- LAYOUT COLUMNS IN BAY SPACING GRID.
- EXTERIOR WALLS ARE PATTERNED AS REQUIRED BY MATERIAL USED (MASONRY, CONCRETE, STEEL, ETC.)
- EXTERIOR WALL DOOR/WINDOW OPENINGS DIMENSIONED TO ROUGH OPENINGS AS REQUIRED BY MATERIAL.

COLUMN LAYOUT

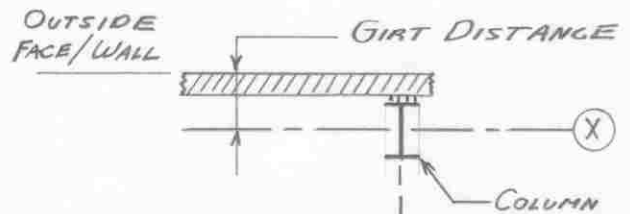


BAY SPACING

INTERIOR DIMENSIONS



DIMENSION INTERIOR WALLS BY REFERENCE TO COL. LINES.



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**STEEL-FRAME
FLOOR PLANS**

SEMESTER: _____

CLASS HANDOUT: _____

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