

GENERAL NOTES
WILSON LAB ADDITION

- Design Live Loads unless noted otherwise:
All floors and roof = 100 psf
Design Wind Load = 30 psf
Average floor system dead load, 125 psf (including partition allowance)
- In general, unless noted otherwise, concrete shall have a cylinder strength of 3500 psi at 28 days. All exterior exposed concrete shall be 4000 psi at 28 days, all columns shall be 4000 psi. All concrete shall contain a water-reducing agent as approved by the Architect. ASTM C-494.
- All concrete exposed to weather shall be air entrained 4-6%.
- All concrete work shall conform to the requirements of ACI 301-72 (Revised 1983) and ACI 318-83 unless modified by notes on the Drawings.
- All reinforcing shall be grade 60.
- Net allowable bearing pressure on rock = 10 kips/sq. ft. All foundations to be placed at elevations shown or noted on Drawings. Notify Architect immediately if insufficient bearing is encountered at elevations shown. ~~Set all foundations min. 4" into rock. 1 - #11 x 2'-0" dowels @ EA. FOOTING.~~
- These Drawings shall not be scaled to obtain dimensions. Refer to structural and architectural plans for dimensions required. Critical dimensions not found should be obtained from the Architect.
- Provide control joints in exposed walls, 20'-0" maximum O.C. See architectural drawings for locations and details.
- Add 1 - #5 bar each side and diagonal at corners, around all openings in slabs and openings with knock-out slabs, unless noted or shown otherwise. Extend bar 24" beyond opening typical.
- See also notes on each drawing. Notes apply to all like conditions throughout the project.
- Submit shop drawings for all pan layouts for review by Architect.
- Where different bar sizes or different spacing is given for joist reinforcing at interior supports, the closer spacing and larger bar size shall govern.
- Dome sizes used in layout are: (letters opposite refer to notations on framing plans)

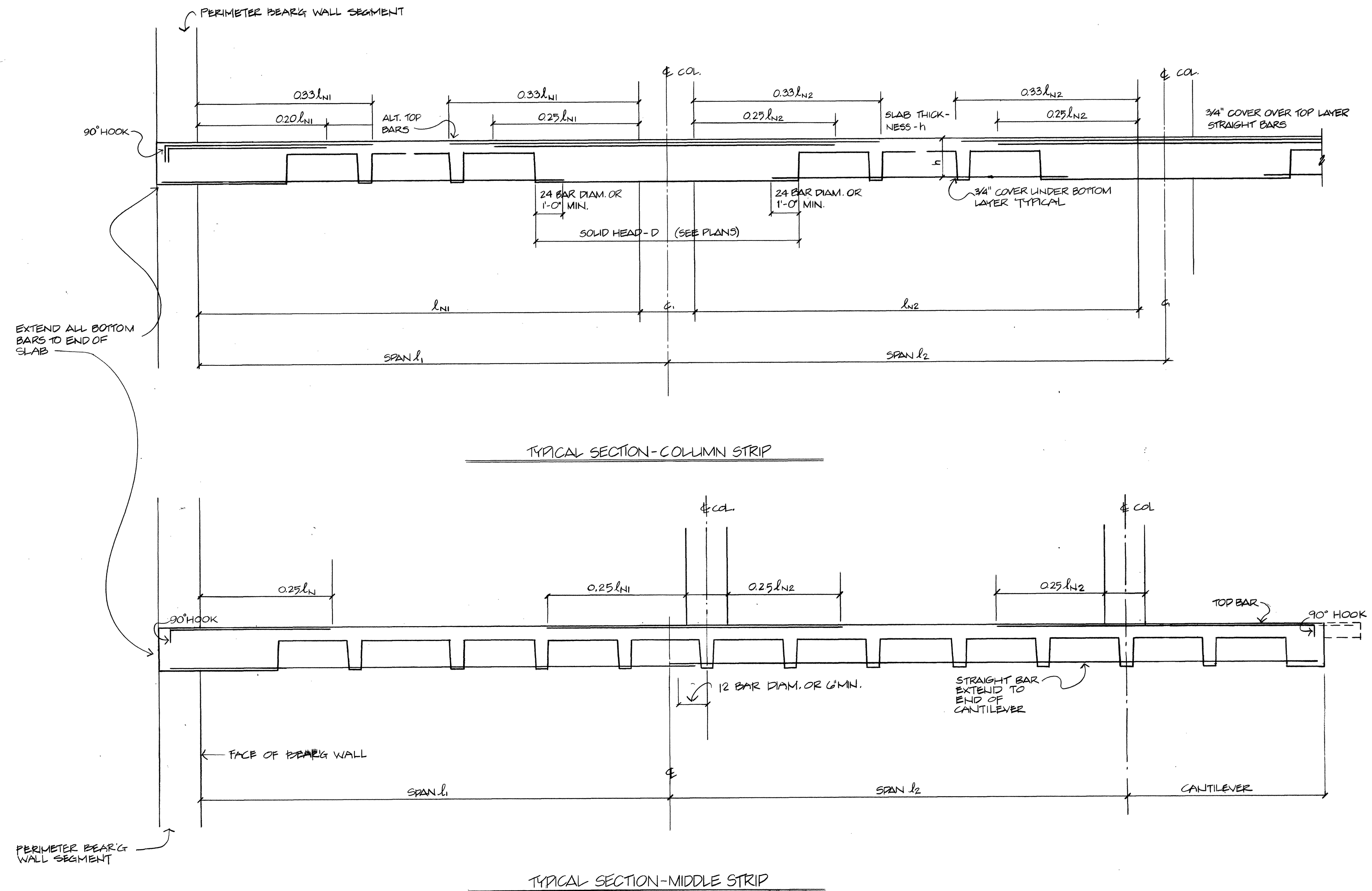
30" x 30" x 12" A Typical
20" x 30" x 12" B
20" x 20" x 12" C
30" x 30" x 10" D

In some areas noted or as required, shallower domes shall be used to accommodate slab depressions and still provide for minimum slab thickness. Bend reinforcing at slab depressions as required. For all floors, minimum top slab = 4 3/4". Minimum temperature reinforcement shall be WWF 4x4 - W4.0 x W4.0 for slabs up to 5 1/2 inches thick.

- Add 1 - #5 top in all joists, full span, both mid-strip and column strip, all levels, including roof.
- Slab mid-strips and column strips are generally defined on the drawings. If not defined, the normal convention applies: 1/4 of span on each side of column grid line represents the width of the column strip; and 1/2 the span, centered in the bay, is the middle strip width.
- All top bars which terminate at an edge of slab shall have 90 degree hook. All bars which terminate at a concrete wall hook into the wall 2'-6".
- All beam web reinforcement to be #4 and are to be closed loops. See ACI 315-80. Use only recommended configuration.
- Bundle bars as required but in conformance with ACI 318-83 and ACI 315-80.
- Provide corner bars to match face reinforcing (both faces) at all concrete wall intersections.
- Location of construction joints in beams and slabs to be center of span. Reinforcing to be continuous. Contractor to submit plan of proposed joints for approval. Key and dowel all construction joints. Use #6 dowels (or as shown or noted). Spacing to match face reinforcing.
- All reinforcing detailing to conform to ACI Detailing Manual ACI 315-80.
- For bar coverage, anchorage, splices, etc., conform to ACI 318, unless noted otherwise.
- All bars to have Class "C" lap splice except as noted otherwise.
- For steel inserts, dovetail anchors, etc., into concrete, see details and architectural drawings.
- Run all electric conduits parallel to reinforcing bars and in the same plane as the bars.
- Forms and reshoring shall remain in place until concrete has attained the strength required to support all construction loads. Minimum strength = 80% of 28 day strength verified by an approved in-place strength determination. Where construction loads occur, reshoring shall remain in place throughout the work to prevent overstressing as per ACI 318. Reshoring shall be placed IMMEDIATELY as main form work is being removed. Reshores shall not be removed until expressly authorized by Architect or his representative.
- Coordinate all equipment pads with mechanical drawings and mechanical contractor. Reinforcing for pads shall be as follows, unless shown or noted otherwise:

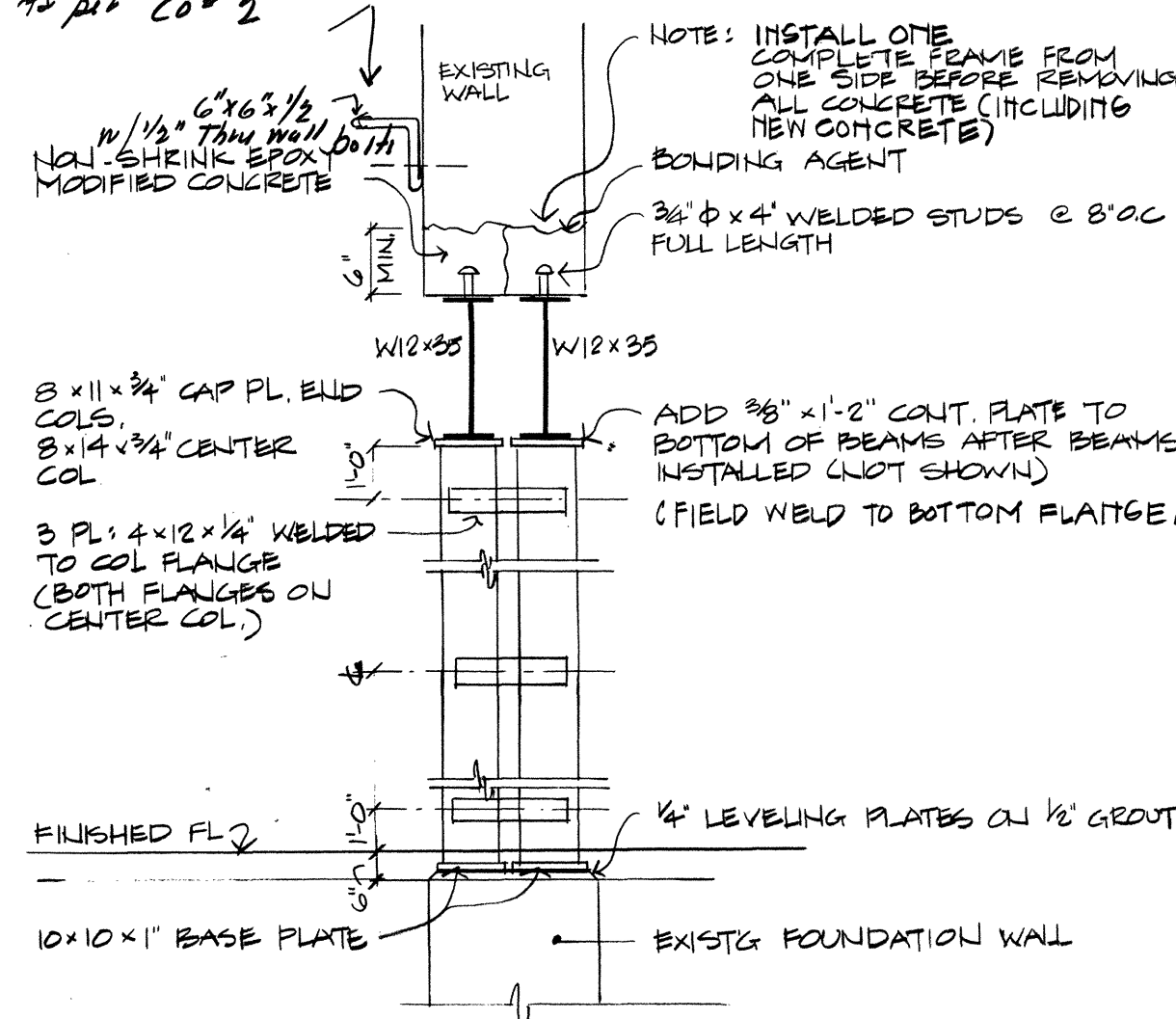
up to 8" in thickness: 4x4-W4.0xW4.0 WWF
9" to 1'-4" in thickness: 1 layer #4 @ 12 EW Top
over 1'-5" in thickness: 2 layers #4 @ 12 EW Top and Bottom

- SEE SHEET A-13 FOR STAIR REINFORCING.

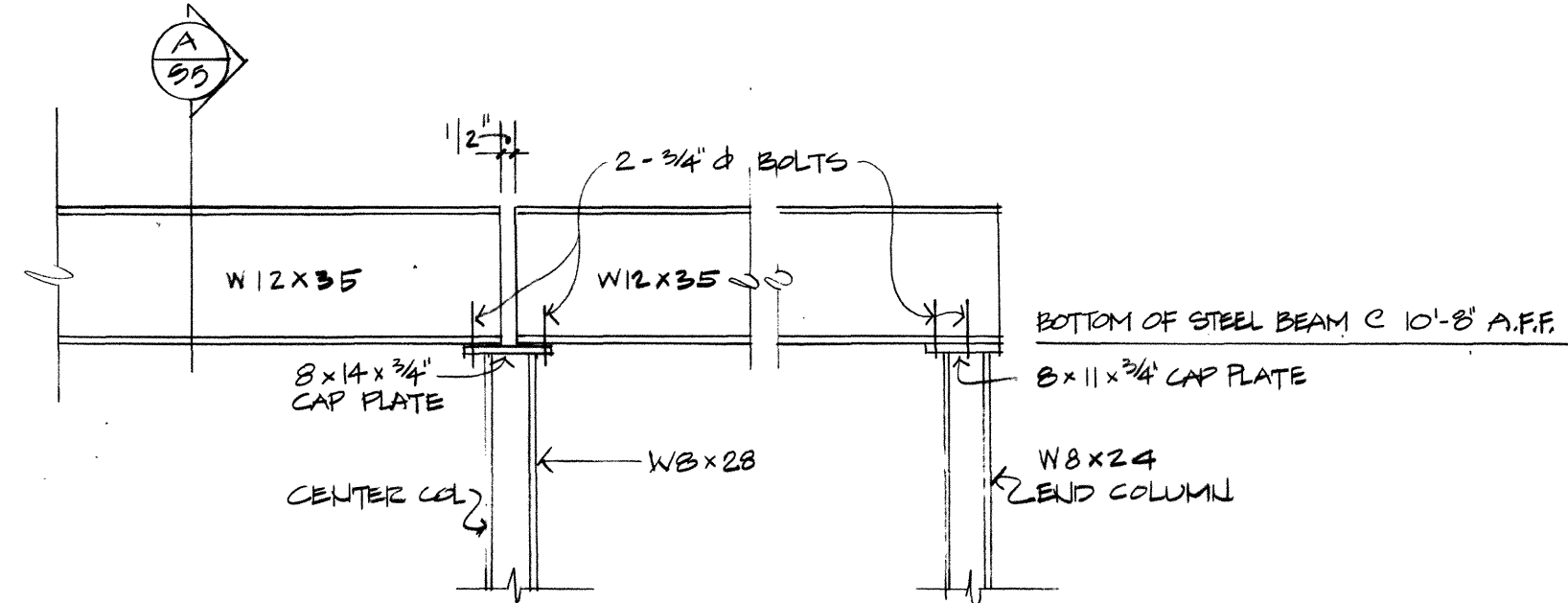


TYPICAL PLACEMENT OF REINFORCING IN WAFFLE FLOOR SLAB
MINIMUM TOP SLAB TEMP. REINF. WWF 4x4 - W4.0 x W4.0

Installed 2 12' steel Angle
As per Col 2



A SECTION DETAIL



B SECTION DETAIL