UPDATE ALL ORANGE TEXT
STRUCTURAL NOTES

1. Dimensions from face of concrete to steel are to center of bar, unless otherwise shown.
2. Concrete is dimensions shall be measured between the outside edges of the forms.
3. Transverse construction joints shall be normal to the centerline of construction.
4. Transverse construction joints shall not be placed within 6 inches of the face of the joints.
5. Transverse construction joints shall be 1/2 inch from the concrete surface unless otherwise shown.
6. The transverse reinforcing bars shall terminate at the centerline of the wall. The spacing of straight transverse bars shall be the same as the spacing of longitudinal bars.
7. Exposed surfaces of concrete members shall be rounded or beveled, unless otherwise shown.
8. No splices in transverse bars reinforcement except bottom face of top slab when vertical length of C and C2 has been calculated for a four-inch starter wall. If wall thickness is six inches, place top of wall from the transverse construction joint.
9. Longitudinal bars shall be lapped 20 bar diameters at splices. Transverse bars shall be lapped 30 bar diameters at splices.
10. Central bars and bars in both top and bottom slabs shall be placed at the end of each pour, but the spacing thereof shall not exceed 1/2 inch from the centerline of the wall.
11. Unless otherwise shown on the details, in curved sections, transverse reinforcing bars may be placed radially. The spacing of straight transverse bars in top and bottom slabs shall be controlled by the bar distribution at the centerline of the wall except at the centerline of the wall.
12. Unless otherwise shown on the drawings, transverse reinforcing joints in both top and bottom slabs shall be placed at the centerline of the wall. The spacing of straight transverse bars in walls and slabs shall be the same as the spacing of longitudinal bars. The spacing of straight transverse bars shall be the same as the spacing of longitudinal bars. The spacing of straight transverse bars shall be the same as the spacing of longitudinal bars.
13. At the beginning and ending of all pours, a curvature of reinforcement composed of A, C, and G bars shall be placed to provide a smooth transition from the transverse construction joint.
14. Bars may be depressed bar diameters at the lower concrete construction joint, at contractor's option.
15. In all sections lap A and C bars. The lap length of A and C bars shall be the lesser of 24 inches or 12 times the diameter of the bar or 12 times the distance from the centerline of the wall. If the height of the starter wall is varied, the vertical spacing of the A and C bars shall be varied accordingly. To maintain a constant lap length, the vertical spacing of the A and C bars shall be varied accordingly. To maintain a constant lap length, the vertical spacing of the A and C bars shall be varied accordingly.
16. Concrete quantities are based on a six by six inch fillet and for quantities do not include any optional splices.
17. If the centerline of any member, place reinforcement at the centerline of the wall.

STRUCTURAL DESIGN CRITERIA

A.C.I. 318-63

DEAD LOAD

Internal water pressure: 62.4 psf per foot of depth
Earth load per Marston's formula: w= 80 pcf

L.A.C.F.C.D. STRUCTURAL DESIGN MANUAL

DATED APRIL 1982

ALLOWABLE STRESSES

fc =1800 psi

W = 150 pcf

Shear and bond stresses per A.C.I. 318-63

TOTAL QUANTITIES

Concrete Quantity: 7141.30 cu. yds.

Steel (A302B): 188.00 tons

2001-3

FED ID XXXXXXX

PROJECT TITLE

PROJECT SUBTITLE

REVISIONS

DATE

UNOFFICIAL AND SUBJECT TO CHANGE

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT ID NO. RDCXXXXXXX

CONFIDENTIAL MATERIAL

60% PRELIMINARY PLANS

PLANT XX
**TYPICAL RC BOX SECTION**

**NOT TO SCALE**

**LONGITUDINAL JOINT**

**CONSTRUCTION JOINT DETAILS**

**NOT TO SCALE**

---

**Structural Notes**

1. Dimensions such as those of concrete to steel to the centerline of bar, unless noted otherwise.
2. Concrete dimensions shall be measured horizontally or vertically on the face of the concrete, and paralleled as at right angles (or nearly) to such dimension.
3. Aided from length and height shall conform to the American Concrete Institute's building code requirement for reinforced concrete, latest edition, sections 7.1 and 7.2.
4. Transverse construction joints shall not be spaced closer than 20 inches on center.
5. Transverse construction joints in walls and slabs shall be in the same plane, no king edge of one joint to be bonded. Transverse construction joints shall be located so as to maintain a 30 diameter lap between the two bars.
6. The transverse reinforcing bars shall be bonded or spliced in accordance with the American Concrete Institute's 'Building Code Requirement for Reinforced Concrete', latest edition, sections 7.1 and 7.2.
7. Exposed edges of concrete members shall be reduced to be at least 1/2 inch.
8. No splices in transverse bars shall be made within 7 1/2 inches of the face of the concrete.
9. Longitudinal bars shall be spaced at 20 bar diameters at splices. Transverse bars shall be spaced at 10 bar diameters at splices.
10. Longitudinal bars shall be continuous and extend through all construction joints.
11. All rebar information shown on the drawings, transverse construction joints provided.
12. Unless otherwise shown on the drawings, transverse construction joints shall be placed 20 bar diameters at splices.
13. At the beginning and ending of all pours, a curtain of reinforcement shall be placed three inches thick for the transverse construction joint.
14. Joints shall be located in convenient construction locations.
15. Concrete quantities are based on the design specified and the workmanship and material used.
16. Joints shall be located at convenient construction locations.
17. Final dimensions are shown in inches, plus reinforcement at the location of the joint.
18. The spacing of the bars is shown in inches, plus reinforcement at the location of the joint.

**Structural Design Criteria**

- **Live Load**:
  - HS 20-44
  - AS 239-88

- **Dead Load**:
  - Live load: 2k psf
  - Earthquake: 0.25 g
  - Wind: 100 mph
  - Temperature: -50 to 120°F

- **Building Code**:

- **Materials**:
  - Concrete: C30
  - Steel: A36

- **Allowable Stresses**:
  - Shear and bond stresses per A.C.I. 318-2001

---

**Structural Schedule, Notes and Details**

**PROJECT TITLE**

**PROJECT SUBTITLE**

**PROJECT DESCRIPTION**

**REVISIONS**

**DATE**

**REVISIONS**

---

**PROJECT PART NO. 100000000**

**LOS ANGELES COUNTY PUBLIC WORKS**

**ASBESTOL DRAWINGS TO CHANGE**

---

**60% PRELIMINARY**