

PRESTRESSED SLAB NOTES

CONCRETE

1. CONCRETE IN PRESTRESSED SLABS SHALL CONFORM TO MIX NO. 9 IN ACCORDANCE WITH SPECIFICATION 850-252 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
2. CONCRETE IN NON-PRESTRESSED SLABS AND HATCH COVERS SHALL CONFORM TO MIX NO. 5 IN ACCORDANCE WITH SPECIFICATION 850-252 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
3. STRESSING OF THE CABLES SHALL NOT PROCEED UNTIL THE CONCRETE HAS ATTAINED A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AS DETERMINED BY TEST CYLINDERS.
4. A LIGHT COAT OF "THICKOL" SHALL BE APPLIED TO THE EXISTING VERTICAL FACE OF ALL CONSTRUCTION JOINTS BEFORE PLACING NEW CONCRETE.
5. SHEAR TRANSFER PLATES (EMBEDDED IN SLABS) SHLL NOT BE WELDED TO SUPPORTING BEAMS FOR A PERIOD OF APPROXIMATELY ONE YEAR FROM THE TIME THE SLABS ARE PLACED.
6. ALL CONCRETE CONSTRUCTION SHALL HAVE CONTINUOUS INSPECTION.

FORMWORK

1. FORMS SHALL BE BRACED TO RESIST A FORCE OF 500 POUNDS PER CABLE.
2. BOTTOM FORMWORK SHALL BE 1/4 INCH MINIMUM ABOVE TOP OF SUPPORTING STEEL BEAMS.
3. THE TOP FLANGES OF ALL SUPPORTING STEEL BEAMS SHALL BE SEPARATED FROM THE CONCRETE BY TWO LAYERS OF 6 MIL "VISQUEEN".

ANCHORAGE HARDWARE

1. ALL CABLE ANCHORAGES SHALL BE DESIGNED TO RESIST THE MAXIMUM CABLE FORCE TO BE APPLIED TO THEM.
2. BOLTS AND HOLES SHALL BE PROVIDED AS SHOWN TO SECURE THE ANCHORAGE HARDWARE TO THE FORMS.

PRESTRESSING CABLES

1. PRESTRESSING CABLES AND HARDWARE ORDERED ON 850-2512.
2. CABLES SHALL CONSIST OF 1/4 INCH DIAMETER WIRES. THE NUMBER OF WIRES PER CABLE IS SHOWN ON THE DRAWINGS.
3. WIRES SHALL BE COLD DRAWN, STRESS RELIEVED HAVING A GUARANTEED TENSILE STRENGTH OF 240 KIPS/SQ. IN. WIRES SHALL CONFORM TO ASTM A421-59T TYPE BA.
4. CABLES SHALL BE COATED TYPE AND ENCLOSED IN SUITABLE SLIPPAGE SHEATHING.
5. ALL PRESTRESSING STEEL USED IN ANY ONE AREA SHALL BE FROM THE SAME HEAT.
6. CABLES SHALL BE PLACED A MINIMUM OF 2 INCHES CLEAR FROM ANY OPENING OR SLEEVE.
7. FOR SPACING OF CABLES SEE DRAWING 520-567895.
8. THE LOCATION OF ANCHORS AND STRESSING ENDS OF CABLES SHALL BE INDICATED WITH SMALL CHISELED CROSSES ON THE FINISHED SLAB BEFORE PLACING CONCRETE THAT WILL COVER THE ENDS.

CABLE SUPPORT CHAIRS

1. CHAIRS FOR SUPPORTING CABLES SHALL BE LOCATED AS NECESSARY TO PREVENT UNDESIRABLE VERTICAL DEFLECTION OF THE CABLES.
2. IN COMPUTING CHAIR HEIGHTS, CABLES MAY BE ASSUMED TO HAVE A DIAMETER OF ONE INCH.

REINFORCING STEEL

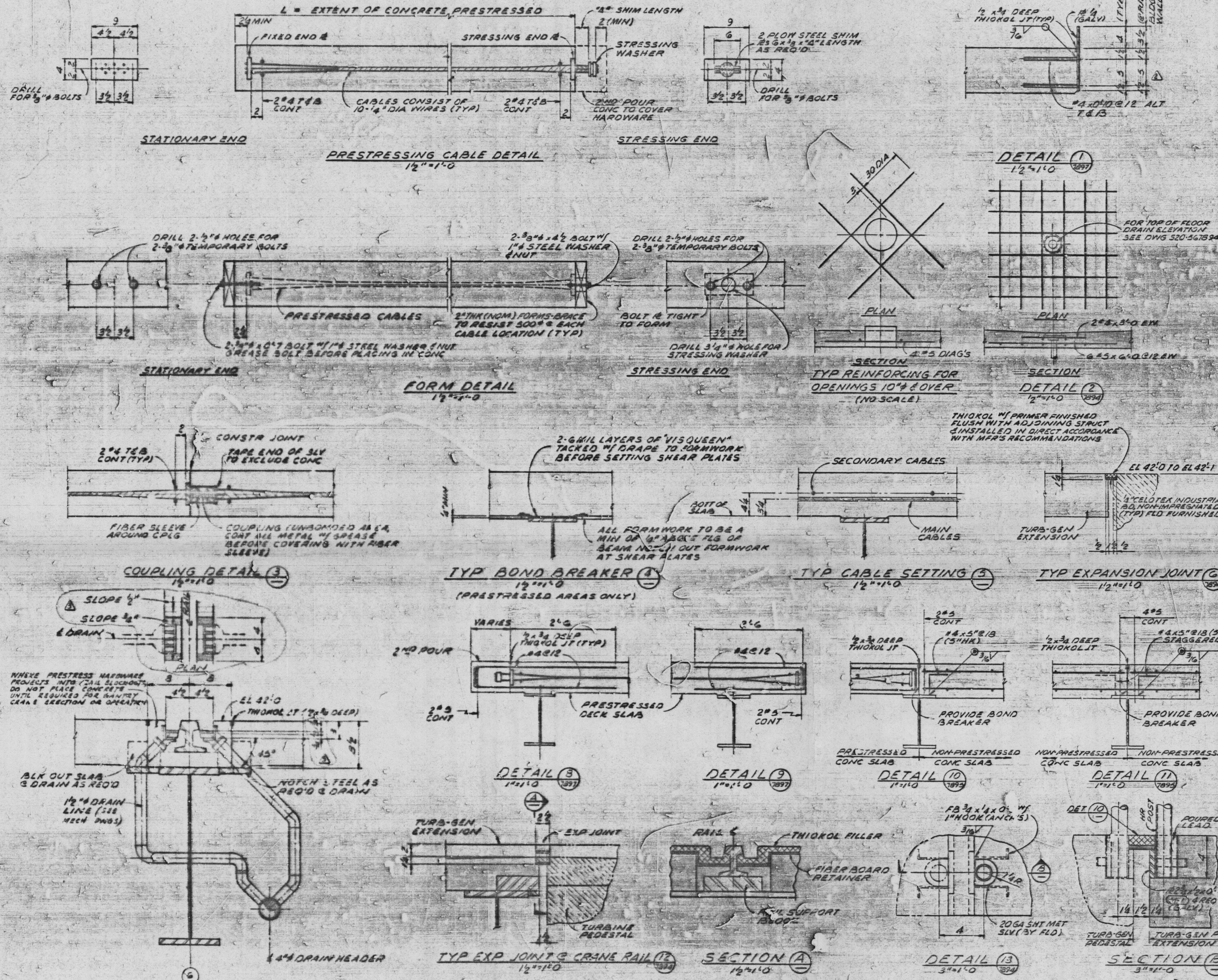
1. REINFORCING STEEL SHALL CONFORM TO ASTM A-15, INTERMEDIATE GRADE, WITH DEFORMATIONS CONFORMING TO ASTM A-305. IT SHALL BE FURNISHED IN ACCORDANCE WITH 850-261.
2. DOWELS AND OTHER REINFORCING STEEL PROJECTING BEYOND THE EDGE OF THE SLAB ARE CALLED OUT ON AVERAGE CENTER TO CENTER SPACING. LOCATE THIS REINFORCING TO PROVIDE CLEARANCE FOR ANCHORAGE HARDWARE AND PRESTRESSING EQUIPMENT.
3. SUFFICIENT ADDITIONAL REINFORCING STEEL (NOT SHOWN ON THE DRAWINGS) EQUIVALENT TO 1/3 BARS AT 6 FEET O.C., BOTH WAYS, SHALL BE PROVIDED TO MAINTAIN THE CABLES IN PROPER ALIGNMENT.

PRESTRESSING PROCEDURE

1. STRESSING OPERATIONS SHALL START AT THE MIDDLE OF THE SLAB AND PROCEED TOWARD BOTH ENDS SIMULTANEOUSLY, STRESSING ALTERNATE MAIN OR TRANSVERSE CABLES.
2. ALL 7 WIRE CABLES SHALL BE STRESSED TO A TEMPORARY FORCE OF 45,000# FOR TWO TO THREE MINUTES AND THEN BE ANCHORED AT A FORCE OF 62,000#. IF 10 WIRE CABLES ARE USED, THE TEMPORARY FORCE SHALL BE 93,000#, AND THE ANCHORED FORCE SHALL BE 88,000#.

DESIGN LOADS AND STANDARDS

1. THE PRESTRESSED AND NON-PRESTRESSED SLABS ARE DESIGNED FOR THE FOLLOWING LOADINGS:
DEAD LOAD 100# SQ. FT.
WINDING, ETC. 50# SQ. FT.
LIVE LOAD 200# SQ. FT. OR MAXIMUM MOBILE CRANE WHEEL LOAD OF 15,000 POUNDS
2. "INSTRUCTIONS TO DESIGN AND FIELD PERSONNEL, PRESTRESSED CONCRETE DECKS," DATED JANUARY 22, 1963, SHALL BE USED AS A STANDARD APPLYING ON THIS JOB EXCEPT AS MODIFIED BY THE DRAWINGS.
3. FOR GENERAL NOTES, SEE DRAWING 520-567892.



BECHTEL CORPORATION
ENGINEERS & ARCHITECTS
LOS ANGELES, CALIF.
JOB NO. 3246 DATE 1-14-65

DETAIL 7
1/2"=1'-0" (399)



Reference Drawings	No.	Revisions	Date	Approved	O.E.	O.E.	CHK'd	Made	I.O. No.	Scale	AS NOTED
520-567897	1	PRESTRESSED CONCRETE SLAB									
520-567898	1	PRESTRESSED CONCRETE SLAB									
520-567899	1	PRESTRESSED CONCRETE SLAB									
520-567900	1	PRESTRESSED CONCRETE SLAB									

Revisions	Date	Approved	O.E.	O.E.	CHK'd	Made	I.O. No.	Scale	AS NOTED
3	1-20-65	J.P.A.	W.C.	H.K.	5720				
2	1-20-65	J.P.A.	W.C.	H.K.	5720				
1	1-14-65	J.P.A.	W.C.	H.K.	5720				

PRC APERTURE CAP UNIT 1

Location SAN ONOFRE NUCLEAR GEN. STATION
PRESTRESSED CONCRETE SLAB
NOTES & TYPICAL DETAILS
EL. 35'-6" & 42'-0" AREAS 2.5.6.7

Southern California Edison Company

33-33 567896-3

POOR ORIGINAL

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