

NOTES

1. THIS STRUCTURE MAY BE USED WHEN THE DEPTH OF COVER IS NO GREATER THAN THE DESIGN COVER OF EXISTING RCB. IF THIS DEPTH IS EXCEEDED, OR PROPOSED MANHOLE SHAFT EXCEEDS 36" (900 mm) IN DIAMETER A DETAILED PLAN WITH CALCULATIONS PREPARED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA SHOWING THE PROPOSED MANHOLE SHALL BE SUBMITTED TO THE AGENCY FOR APPROVAL.
2. STRUCTURAL NOTES.
 - A. DIMENSIONS FROM FACE OF CONCRETE TO REINFORCING STEEL ARE TO CENTER OF BAR UNLESS OTHERWISE SHOWN.
 - B. CONCRETE DIMENSIONS SHALL BE MEASURED HORIZONTALLY OR VERTICALLY ON THE PROFILE, AND PARALLEL TO OR AT RIGHT ANGLES (OR RADially) TO CENTER LINE OF CONDUIT ON THE PLAN EXCEPT AS OTHERWISE SHOWN.
 - C. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. LATEST EDITION."
 - D. PLACING OF REINFORCEMENT SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". LATEST EDITION.
 - E. TRANSVERSE REINFORCING STEEL SHALL TERMINATE 1 1/2" (40 mm) FROM THE CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
 - F. NO SPLICES IN TRANSVERSE STEEL REINFORCEMENT SHALL BE PERMITTED OTHER THAN SHOWN ON THE PLANS.
 - G. ALL STRUCTURAL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI (28 MPa).
 - H. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 40 (615M, GRADE 300).
3. WHERE REINFORCEMENT IS REQUIRED TO EXTEND THROUGH THE NEW JOINT, CONCRETE SHALL BE REMOVED IN THE FOLLOWING SEQUENCE:
 - A. A SAW CUT SHALL BE MADE 1 1/2" (40 mm) DEEP AT THE REMOVAL LIMITS. CARE SHALL BE EXERCISED IN SAWING AT THE REMOVAL LIMITS SO AS NOT TO CUT THE REINFORCING STEEL WHICH SHALL BE RETAINED AND EXTENDED INTO THE NEW CONSTRUCTION AS INDICATED ON THE PLANS.
 - B. USING HAND-HELD EQUIPMENT THE CONCRETE SHALL BE CAREFULLY REMOVED FOR THE FULL DEPTH OF THE WALL OR SLAB AND FOR A MINIMUM DISTANCE FROM THE SAW CUT EQUAL TO THE LONGEST EXTENSION OF THE EXISTING BARS TO BE EXTENDED INTO THE NEW CONSTRUCTION. THIS EXTENSION SHALL BE 30 BAR DIAMETERS UNLESS OTHERWISE SHOWN.
 - C. EXISTING REINFORCEMENT SHALL BE CUT TO THE REQUIRED BAR EXTENSION.
 - D. THE REMAINING CONCRETE MAY BE REMOVED BY ANY SUITABLE METHOD, UPON APPROVAL OF THE ENGINEER, WHO SHALL BE THE SOLE JUDGE OF THE USE OF ANY CONCRETE REMOVAL EQUIPMENT. EXPLOSIVES, WRECKING BALL OR OTHER SIMILAR DEVICES WHICH ARE LIKELY TO DAMAGE THE CONCRETE TO BE LEFT IN PLACE SHALL NOT BE USED.
 - E. INTERNAL SUPPORT OF THE EXISTING RCB SHALL BE PROVIDED DURING THE REMOVAL AND RECONSTRUCTION OF THE TOP SLAB. A DETAILED PLAN WITH CALCULATIONS PREPARED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA SHOWING THE TEMPORARY SUPPORT SYSTEM SHALL BE SUBMITTED AND APPROVED BY THE AGENCY PRIOR TO THE START OF REMOVAL WORK.