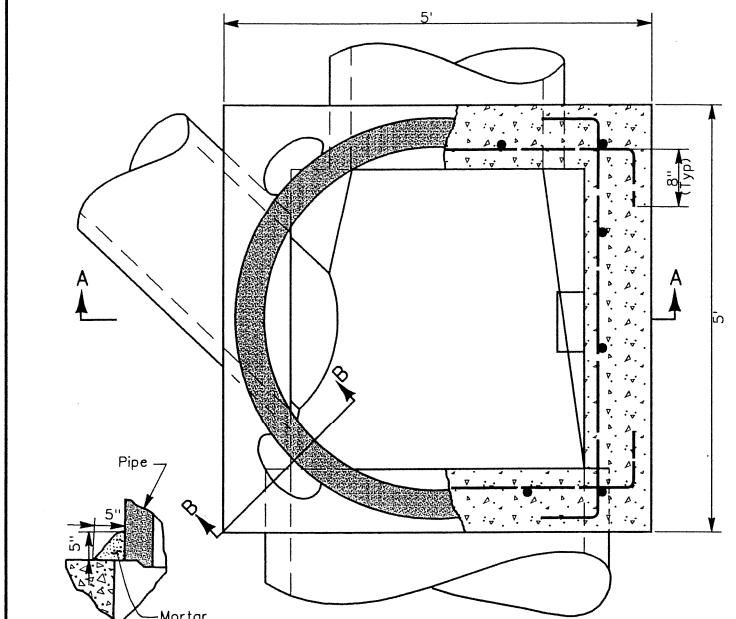
PUBLIC WORKS DIRECTOR

11/27/02

PLANS APPROVAL DATE

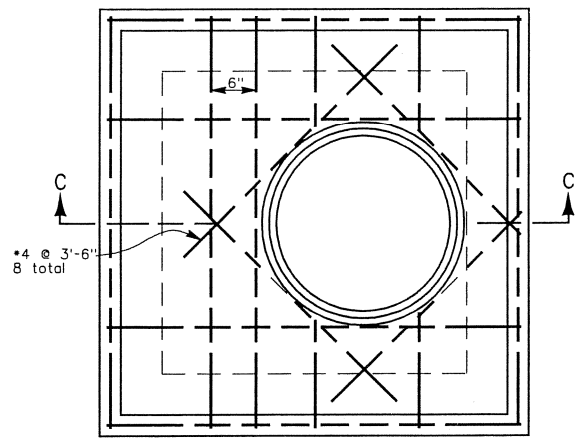
The County of Contra Costa or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
MAURICE M. SHIU
No. 23204
Exp. 12/31/05
CIVIL
STATE OF CALIFORNIA

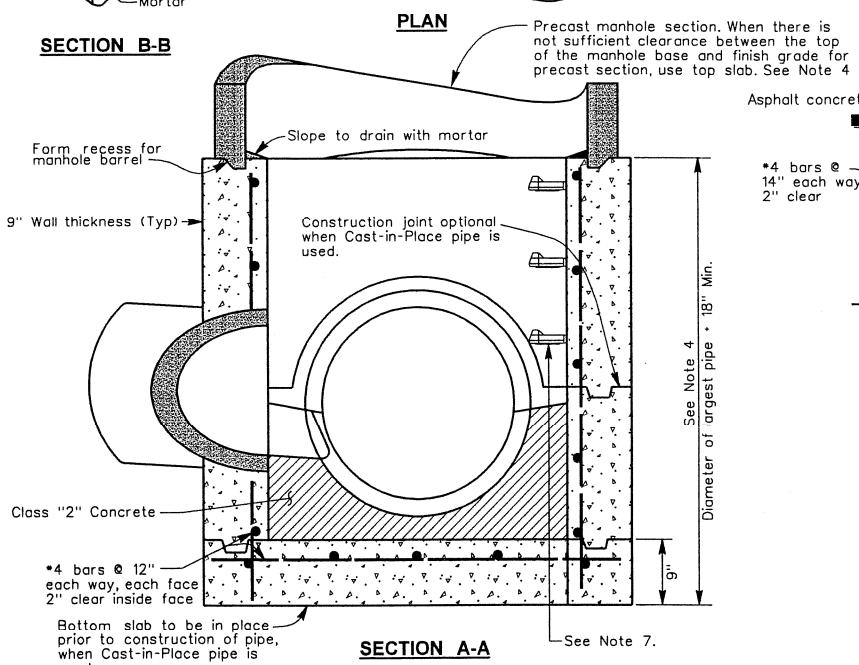


PLAN

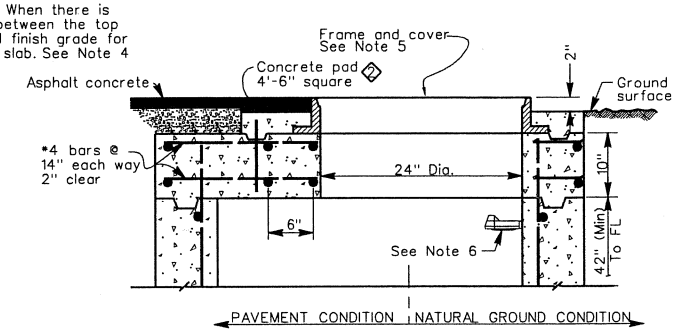
SECTION B-B



PLAN



SECTION A-A



SECTION C-C
TOP SLAB

USE TOP SLAB:

1. Where there is not sufficient clearance between the top of the manhole base and finish grade for a precast section and section manhole cover frame.
2. When placing a Type "A" or Type "C" inlet opening on a Type "II" manhole base. The opening in the slab shall conform to the inside dimensions of the inlet to be used.

NOTES:

1. All reinforced concrete shall be Class "2" (590 lbs. PCC per cubic yard). 3
2. Construction joints are optional where shown. Other locations are subject to approval by the Public Works Department. Key dimensions are 1½" x 3".
3. Inlet and outlet pipes shall not intercept a manhole base through a corner. If skew angle is too great to permit the opening to be made in a single wall use a Type "III" manhole base. (See Std Pln CD32i).
4. Type "I" manhole bases (Std Pln CD30i) are for use with pipes to 24" in diameter and where there is sufficient cover to use a minimum length manhole barrel, eccentric cone, and cover frame. Type "II" manhole bases are for pipes to 42" in diameter. Type "III" manhole bases are for use with pipes to 60" in diameter. Manhole bases for pipes larger than 60" in diameter shall require a special design.
5. For details of manhole frame and cover, See Standard Plan CD30i. Orient frame directly above steps.
6. See Standard Plan CD30i for step details and location.
7. Step shall be steel reinforced polypropylene plastic, Santa Rosa Cast Products Co. Dwg. No. PS2-PF or equivalent. Steps to be cast in place or press fitted into provided holes as per manufacture. Install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of manhole. The spacing between steps shall not exceed 16" and shall be uniform throughout the length of the wall. Place steps in the wall without a pipe opening. No steps required where distance from floor of manhole to top of manhole is less than 2'-6".

NO.	DATE	REVISION DESCRIPTION	BY
1	2-02	Supersedes Standard Plan CD31	P.W.
		dated 11-99	
2	6-02	Revised Dimension	HH
3	7-02	Concrete Spec. Revision	HH

COUNTY OF CONTRA COSTA
PUBLIC WORKS DEPARTMENT
MARTINEZ, CALIFORNIA

STANDARD PLAN

TYPE II MANHOLE BASE

SCALE: NO SCALE | DATE: 7-02
DRAWN BY: H. HUSSEY | PLAN NO. CD31i
CHECKED BY: M. HOLLINGSWORTH