



NOTES:

1. MANHOLE FRAME AND ALL JOINTS SHALL BE SET IN CLASS "C" MORTAR.
2. ALL PRECAST COMPONENTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C478.
3. VERTICAL WALL OF CONE SHALL BE ON THE UPSTREAM SIDE OF THE MANHOLE.
4. CONCRETE BASE SHALL BE 560-C-3250.
5. APPROVED WATER STOP REQUIRED FOR PLASTIC PIPE CONNECTORS.
6. PRECAST SECTIONS SHALL BE USED WITHIN DIMENSION "A" AS REQUIRED, IN ORDER OF PREFERENCE LISTED:
 - A) CONE (NOTCHED FOR PIPE IF DIMENSION "A" IS LESS THAN 3').
 - B) 6" TO 18" OF 3' DIAMETER GRADE RINGS AND/OR RISERS.
 - C) 5' DIAMETER SHAFT VARIABLE HEIGHT.
7. FLEXIBLE PIPE JOINTS SHALL BE REQUIRED WITHIN 12" OF INSIDE FACE OF MANHOLE, EXCEPT FOR PLASTIC PIPE.
8. ALL PATCHING WITHIN MANHOLE BASE SHALL BE EPOXY MORTAR.
9. PRIOR APPROVAL OF PRECAST BASE IS REQUIRED BY THE CITY.
10. MANHOLES SERVING 15" DIAMETER PIPE AND LARGER SHALL USE PRECAST RISERS LINED WITH WHITE PLASTIC IMBEDDED WITH LOCKING EXTENSIONS TO THE CONCRETE WALL. THE BASE AND ALL REMAINING EXPOSED CONCRETE SHALL BE COATED WITH AN APPROVED POLYURETHANE COATING.

LEGEND ON PLANS



REVISION	BY	APPROVED	DATE
DETAIL	SS	A. OSKOU	12/03
UPDATED	KA	J. NAGELVOORT	01/12
UPDATED	GB	J. NAGELVOORT	07/15
UPDATED	HM	J. NAGELVOORT	02/16
REDRAFTED	CD	J. NAGELVOORT	08/19
UPDATED	RL	R. AMEN	05/26

CITY OF SAN DIEGO – STANDARD DRAWING

**MANHOLE 5' X 3' DIAMETER
(FOR 15" TO 33" DIAMETER PIPE)**

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

Alaine James 05/29/2026
COORDINATOR R.C.E. 81047 DATE

DRAWING NUMBER **SDS-106**