

**CLASS "C"**  
CRUSHED ROCK PAD

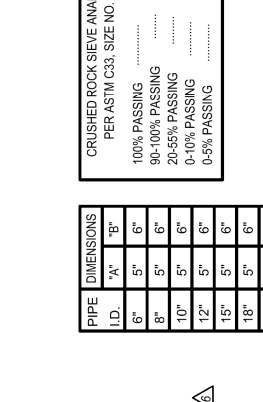
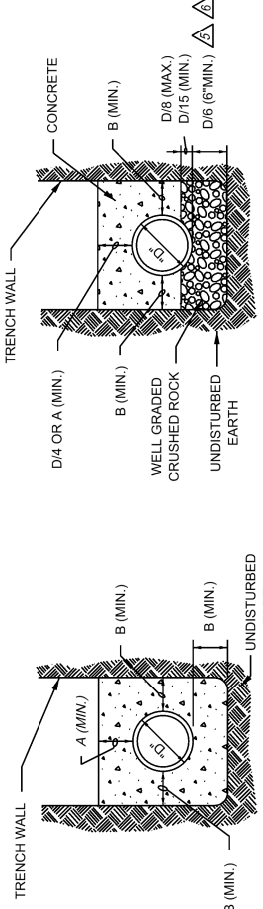
**CLASS "B"**  
CRUSHED ROCK BED

**CLASS "B.1"**  
CRUSHED ROCK ENVELOPE

**CLASS "CLSM"**  
SIDE CRADLING

**CLASS "CLSM CRADDE"**

**NOTE:** TO BE USED FOR SHALLOW PIPES. USE CLSM UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OR AS SHOWN IN THE CONTRACT DRAWINGS.



**CONCRETE ENCASEMENT NO. 1**

**CONCRETE ENCASEMENT NO. 2**

**NOTE:** USE CONCRETE ENCASEMENT NO. 2 UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER, OR AS SHOWN IN THE CONTRACT DRAWINGS.

**NOTE: REFER TO STD. DWG SB-159 FOR BEDDING CLASSIFICATION**

PIPE DIMENSIONS		CRUSHED ROCK SIEVE ANALYSIS PER ASTM C33, SIZE NO. 67	
I.D.	O.D.	100% PASSING	90-100% PASSING
6"	8"	1"	3/4"
8"	10"	3/8"	3/8"
12"	15"	0-10% PASSING	#4
18"	21"	0-5% PASSING	#8

PIPE I.D.	PIPE O.D.	CRUSHED ROCK SIEVE ANALYSIS PER ASTM C33, SIZE NO. 67
6"	8"	1"
8"	10"	3/4"
12"	15"	3/8"
18"	21"	0-10% PASSING
24"	27"	0-5% PASSING
30"	33"	
36"	39"	
42"	48"	

**NOTES**

- CLSM CRADLE AND ARCHES SHALL BE INSTALLED AS REQUIRED BY THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
- ALL CLSM SHALL BE PER EIMWD STANDARD SPECIFICATIONS.
- ALL CRUSHED ROCK SHALL MEET THE REQUIREMENTS OF ASTM C33 SIZE NO. 67.
- TWO APPROVED FLEXIBLE JOINTS SHALL BE USED AT EACH END OF SEWER PIPE ENCASEMENTS PURSUANT TO STD. DWG. SB-63.
- CLSM CAN BE POURED AGAINST TRENCH WALL OR MAY BE FORMED.
- CONSOLIDATING BACKFILL MATERIAL BY WATER FLOODING NOT PERMITTED IN CLAY SOILS.
- ALL COMPACTION ABOVE THE PIPE ZONE WITHIN A ROAD RIGHT-OF-WAY TO BE PER THE REGULATORY ROAD AGENCY AND STD. DWG. SB-158

NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE
1	4/11/13	GS	REVISE ROCK BEDDING, NOTES, AND REMOVED CLASS "A" & "AA"	AGA	4/25/13
2	6/4/19	KER	REVISE ROCK THICKNESS UNDER PIPE TO 6"	CB	6-2-19
3	11/4/19	KER	CLARIFY CLASS "A" CONCRETE SIDE CRADLING	UJB	11-2-19
4	2/19/19	KER	REDRAWN TO INCLUDE ALL PREVIOUS REVISIONS	UJB	2-28-19
5	1/31/19	KER	REVISED CALLOUT FOR TRENCH BACKFILL	UJB	1/31/19

APPROVALS		INITIAL	DATE
INSPECTIONS			
OPERATIONS			
SUBMITTED	UJB		3/2/19

REFERENCES:	SCALE:	NONE
FILE I.D.: KAUAI/ENGINEERING/STDDWG	DRAWN BY:	KER

**EASTERN MUNICIPAL WATER DISTRICT**

**EASTERN MUNICIPAL WATER DISTRICT**  
RIVERSIDE COUNTY, CALIFORNIA

**PIPE ZONE BEDDING FOR SEWER PIPE**

APPROVED: *Joseph D. Van Sickle* 3/5/19  
DIRECTOR OF ENGINEERING

APPROVED: *William S. Plummer* 3/8/19  
CHIEF ENGINEER