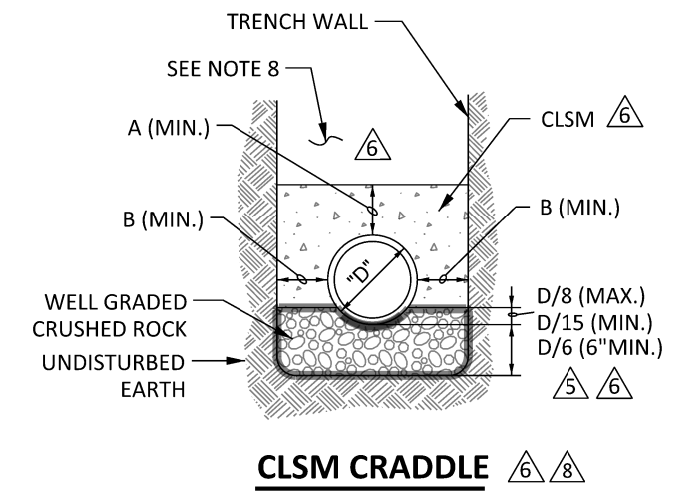
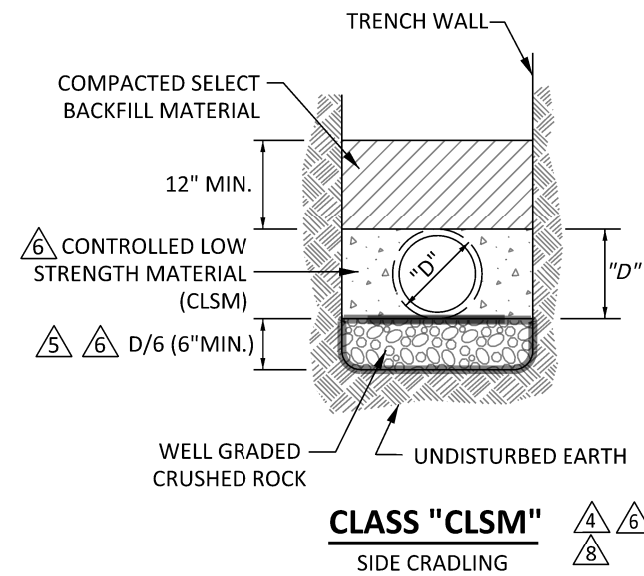


| PIPE I.D. | DIMENSIONS | |
|-----------|------------|-----|
| | "A" | "B" |
| 6" | 5" | 6" |
| 8" | 5" | 6" |
| 10" | 5" | 6" |
| 12" | 5" | 6" |
| 15" | 5" | 6" |
| 18" | 5" | 6" |
| 21" | 6" | 6" |
| 24" | 6" | 6" |
| 27" | 7" | 7" |
| 30" | 8" | 8" |
| 33" | 9" | 9" |
| 36" | 9" | 9" |
| 39" | 10" | 10" |
| 42" | 11" | 11" |



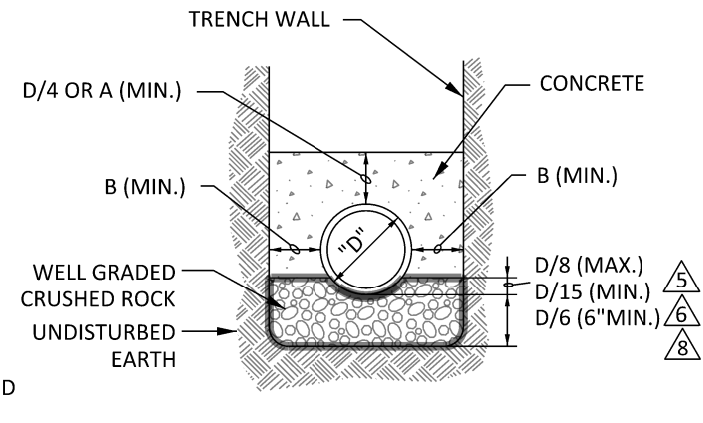
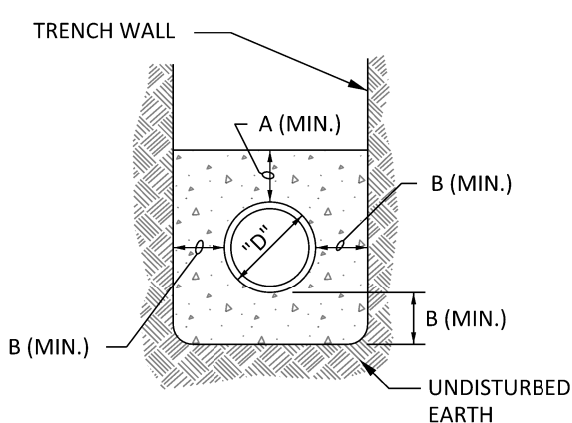
NOTE: TO BE USED FOR SHALLOW PIPES. USE CLSM UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER, OR AS SHOWN IN THE CONTRACT DRAWINGS.

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

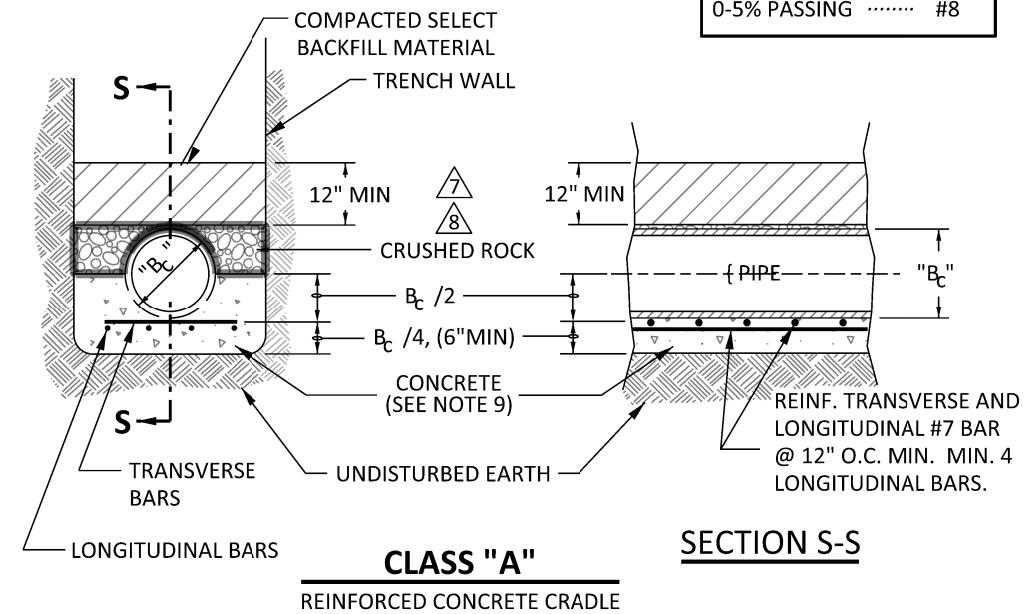
CRUSHED ROCK SIEVE ANALYSIS PER ASTM C33, SIZE NO. 67

| | |
|-----------------|------|
| 100% PASSING | 1" |
| 90-100% PASSING | 3/4" |
| 20-55% PASSING | 3/8" |
| 0-10% PASSING | #4 |
| 0-5% PASSING | #8 |

NOTE: HIGH GROUND WATER CONDITION SEE NOTE 10



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



- NOTES**
- CLSM CRADLE AND ARCHES SHALL BE INSTALLED AS REQUIRED BY THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
 - ALL CLSM SHALL BE PER EMWD 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
 - CONCRETE SHALL BE CLASS "A" 3,000 PSI MIN. WITH POZZOLITH NV 534 ACCELERATING ADMIXTURE OR APPROVED EQUAL. ALLOW 4 HOURS CURE TIME MIN. BEFORE PLACING BACKFILL MATERIAL ON TOP OF CONCRETE.
 - WHEN HIGH GROUND WATER CONDITION EXISTS, WRAP CRUSHED ROCK WITH GEOFABRIC WRAP WITH 12-INCH MINIMUM OVERLAP PER SPECIFICATIONS. IN ADDITION, INSTALL ROCK BASE PER STANDARD DRAWING SB-158.

| REVISIONS | | | | | APPROVALS | | | |
|-----------|---------|---------|---|-------|-----------|--------------|---------|--------|
| NO. | DATE | INITIAL | DESCRIPTION | APP'D | DATE | | INITIAL | DATE |
| 8 | 2/2/24 | GS | ADDED GEOFABRIC NOTE AND DETAILS FOR GROUND WATER | AGA | 2/2/2024 | DESIGN | | |
| 7 | 4/23/21 | GS | UPDATED TITLE BLOCK, FONT, LOGO AND ADDED CLASS D & A | AGA | 4/23/2021 | CONSTRUCTION | | |
| 6 | 4/11/13 | GS | REVISE ROCK BEDDING, NOTES AND REMOVED CLASS "A" & "AA" | AGA | 4/15/13 | INSPECTION | | |
| 5 | 6/4/99 | KER | REVISE ROCK THICKNESS UNDER PIPE TO 6" | CB | 6/4/99 | OPERATIONS | | |
| 4 | 11/4/98 | KER | CLARIFY CLASS "A" CONCRETE SIDE CRADLING | VJB | 11/4/98 | SUBMITTED | VJB | 3/1/93 |

REFERENCES: SUPERCEDES SB-76
SCALE: NONE
DRAWN BY: KER

emwd EASTERN MUNICIPAL WATER DISTRICT

RECOMMENDED *Joseph D. VanSickle* 3/5/93
DIRECTOR OF ENGINEERING DATE

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

PIPE ZONE BEDDING FOR SEWER PIPE

APPROVED *William E. Plummer* 3/8/93
ASSISTANT GENERAL MANAGER DATE

SB-157