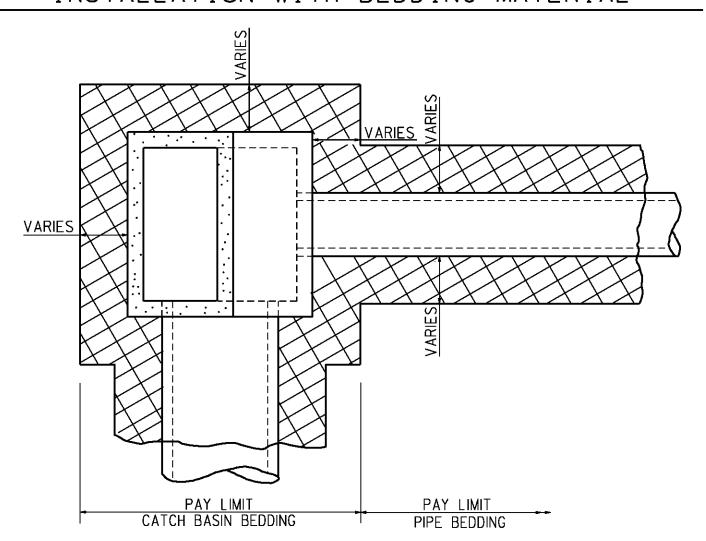
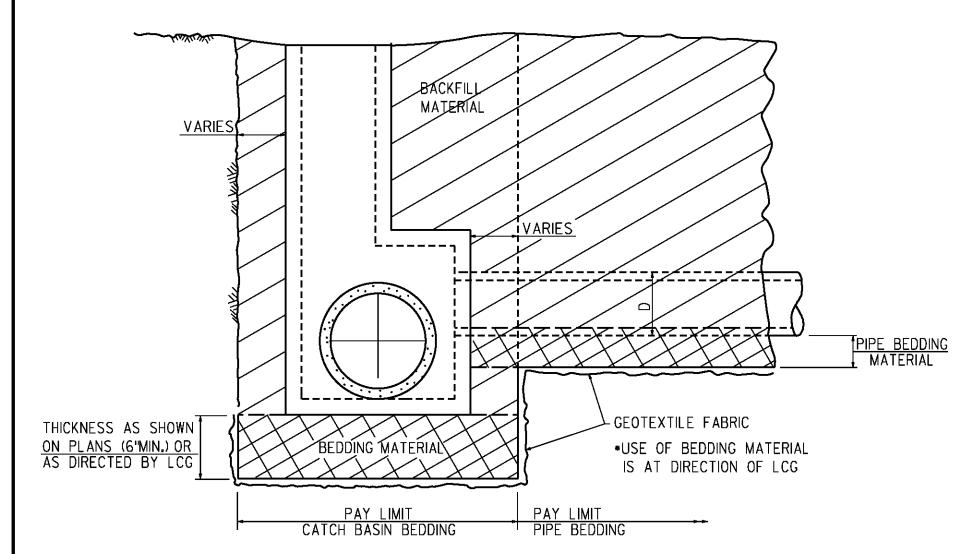
TYPICAL CATCH BASIN AND STORM DRAIN PIPE INSTALLATION WITH BEDDING MATERIAL



PLAN OF TYPICAL CATCH BASIN (MANHOLE OR JUNCTION BOX) AND PIPE



PROFILE OF TYPICAL CATCH BASIN (MANHOLE OR JUNCTION BOX) AND PIPE

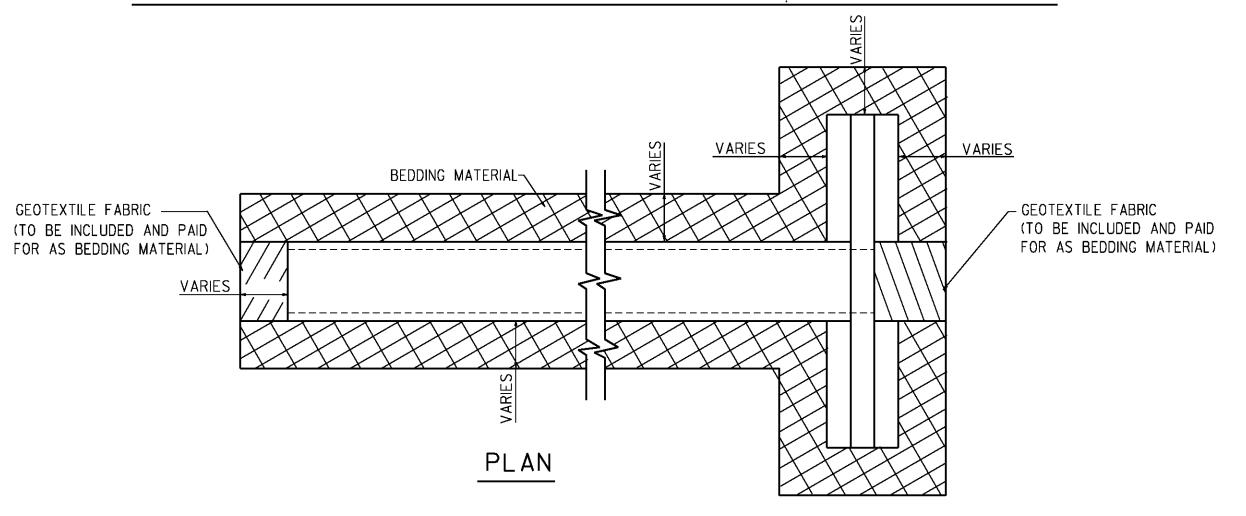
| * DEDUCTION | FROM BACKFII | L QUANTITY | |
|---------------|-----------------|-----------------|--|
| R.C. PIPE | | C.M. PIPE | |
| PIPE DIAMETER | CU.YDS./LIN.FT. | CU.YDS./LIN.FT. | |
| 15" | 0.0768 | 0.0455 | |
| 18" | 0.1068 | 0.0654 | |
| 24" | 0.1818 | 0.1164 | |
| 30" | 0.2765 | 0.1818 | |
| 36" | 0.3910 | 0.2618 | |
| 42" | 0.5254 | 0.3563 | |
| 48" | 0.6795 | 0.4654 | |
| 54" | 0.8534 | 0.5890 | |
| 60" | 1.0471 | 0.7272 | |
| 72" | I . 4940 | 1.0472 | |
| 84" | 2.0200 | I . 4253 | |
| 96" | 2.6252 | I . 8617 | |
| 108" | 3.3096 | 2.3562 | |
| 120" | 3.9593 | 2.9089 | |
| 132" | 4.7908 | 3.5197 | |
| 44" | 5.7014 | 4.1888 | |

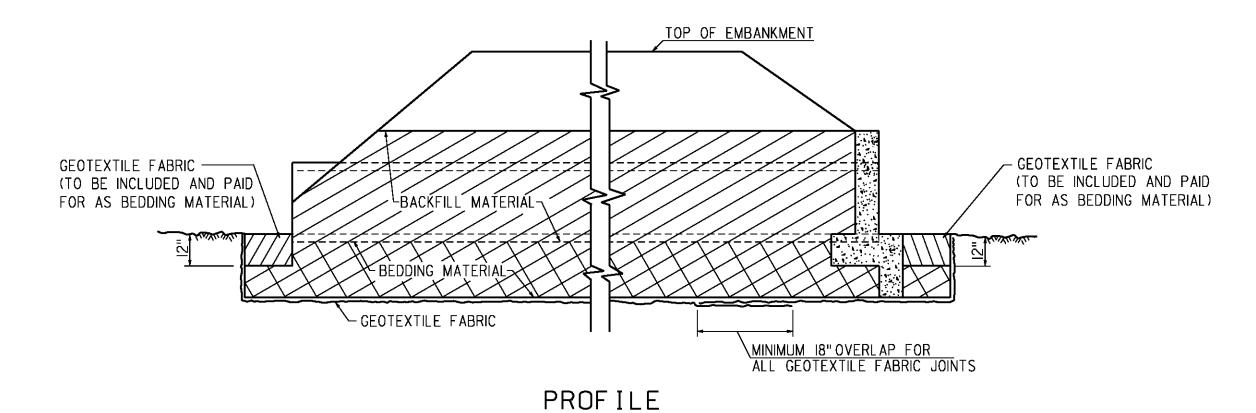
| * DEDUCTI | ON FROM | BACKFILL | QUANTITY | |
|----------------|---------------------|----------------|---------------------|--|
| R.C. PIPE ARCH | | C.M. PIPE ARCH | | |
| EQUIV.DIAM. | CU.YDS./ LIN.FT. | EQUIV.DIAM. | CU.YDS./ LIN.FT. | |
| 18" | 0.0979 | 18" | 0.0593 | |
| 24" | 0.1615 | 24" | 0.1037 | |
| 30" | 0.2495 | 30" | 0.1630 | |
| 36" | 0.3488 | 36" | 0.2370 | |
| 42" | 0.4742 | 42" | 0.3222 | |
| 48" | 0.6171 | 48" | 0.4222 | |
| 54" | 0.7654 | 54" | 0.5296 | |
| 60" | 0.9526 | 60" | 0.6519 | |
| 72" | 1.3599 | 72" | 0.9630 | |
| 84" | l . 8302 | 84" | 1.2963 | |
| 96" | 2.6655 | 96" | I . 7037 | |
| 108" | 3.3170 | 108" | 2,1481 | |

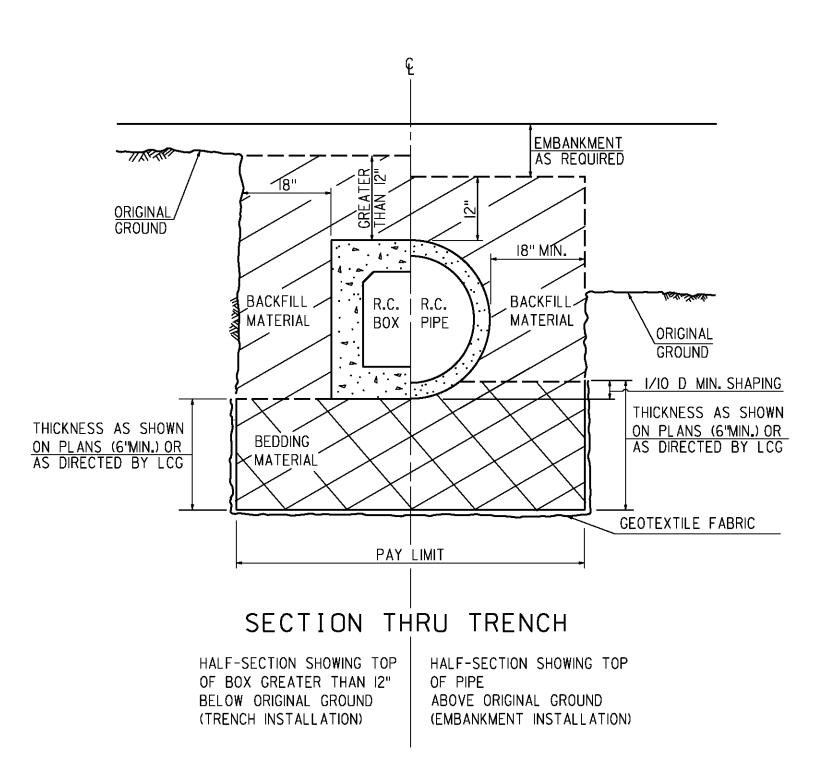
*FOR INFORMATIONAL PURPOSES ONLY. THE COST OF THE BACKFILL IS TO BE INCLUDED IN THE COST OF THE HYDRAULIC STRUCTURE FOR USE OF IN-SITU SOILS ONLY.

TYPE "A" OR "B" BACKFILL IS PAID FOR AS BORROW AS APPROVED BY THE ENGINEER.

TYPICAL CROSS DRAIN INSTALLATION WITH BEDDING MATERIAL

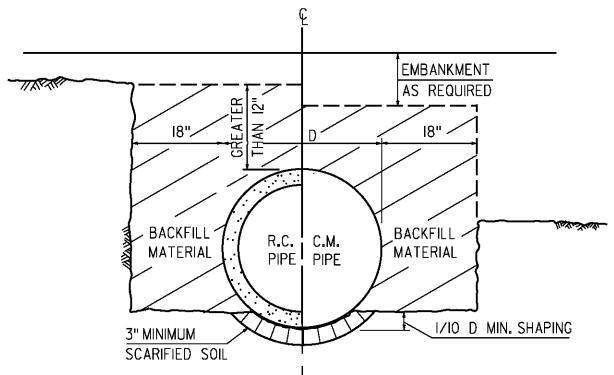






*USE OF BEDDING MATERIAL WITH PLASTIC FILTER CLOTH IS AT DIRECTION OF LCG.

TYPICAL PIPE INSTALLATION WITHOUT BEDDING MATERIAL



SECTION THRU TRENCH

HALF-SECTION SHOWING TOP | HALF-SECTION SHOWING TOP OF PIPE GREATER THAN 12" BELOW ORIGINAL GROUND (TRENCH INSTALLATION)

OF PIPE ABOVE ORIGINAL GROUND (EMBANKMENT INSTALLATION)

I. STANDARD LAFAYETTE CONSOLIDATED GOVERNMENT PIPE INSTALLATION, BEDDING, AND BACKFILL ARE DEFINED IN LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS.

- 2. THE NEED AND/OR THE THICKNESS OF BEDDING MATERIAL WILL BE DETERMINED BY THE GEO-TECHNICAL SECTION AND WILL BE SHOWN ON THE PLANS. ADDITIONAL BEDDING MATERIAL MAY BE REQUIRED BY THE ENGINEER/OWNER.
- 3. THE DETAILS ON THIS SHEET DEPICT PAY LIMITS FOR BEDDING MATERIALS. THE BED-DING MATERIAL PAY QUANTITIES ARE TO BE BASED ON THE THEORETICAL NET SECTION WITH NO PIPE DEDUCTIONS. FULL PIPE DE-DUCTIONS (SEE TABLES ON THIS SHEET) FOR BACKFILL QUANTITIES ARE FOR INFORMATION-AL PURPOSES ONLY. THE COST OF THE BACK-FILL IS TO BE INCLUDED IN THE COST OF THE HYDRAULIC STRUCTURE WHEN USING ⊿ IN-SITU SOILS ONLY.
- REINFORCED CONCRETE PIPE, REINFORCED CONCRETE BOX AND CORRUGATED METAL PIPE ARE SHOWN AS TYPICAL STRUCTURES, DETAILS FOR REINFORCED CONCRETE PIPE ARCH, COR-RUGATED METAL PIPE ARCH. AND CORRUGATED STRUCTURAL PLATE STRUCTURES ARE SIMILAR.
- 5. PLASTIC FILTER CLOTH SHALL BE REQUIRED WHEN BEDDING MATERIAL IS REQUIRED AND SHALL BE PLACED IN ACCORDANCE WITH DE-TAILS PRIOR TO PLACING BEDDING MATERIAL ADJACENT STRIPS OF FILTER CLOTH SHALL LAP EACH OTHER FOR AT LEAST 3 FEET. PLASTIC FILTER CLOTH WILL NOT BE MEASURED FOR PAYMENT.
- 6. BEDDING SHOWN ON THIS STANDARD PLAN CON-FORMS TO THE REQUIREMENTS OF SECTION 726 OF THE LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS.

SHEET

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3 AND BACKFILL IAGE STRUCTURES

BE OR