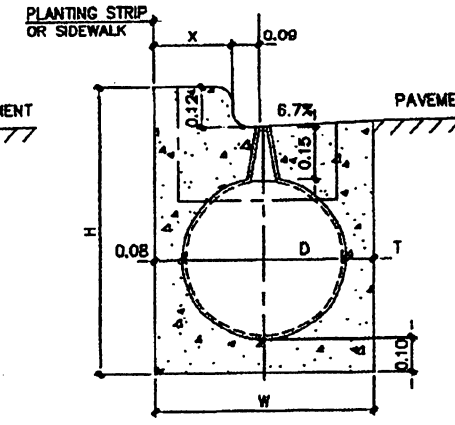
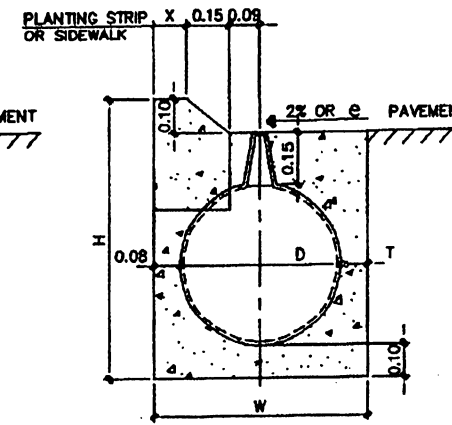
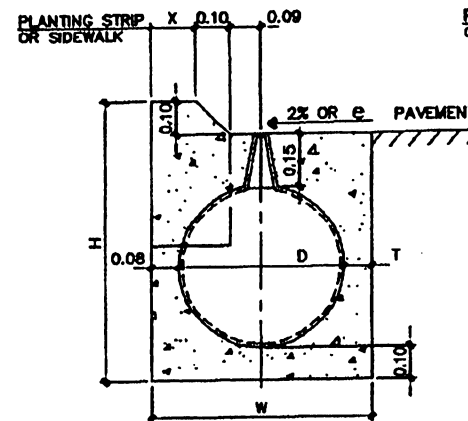


SECTION A-A
STANDARD GRATE DETAIL

TYPICAL PIPE SECTION



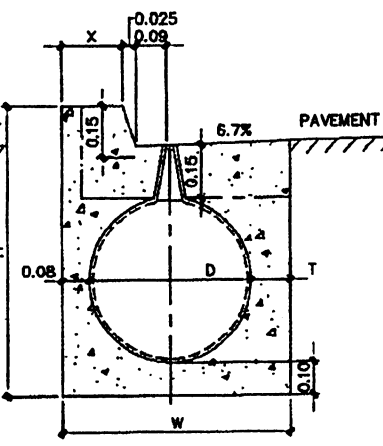
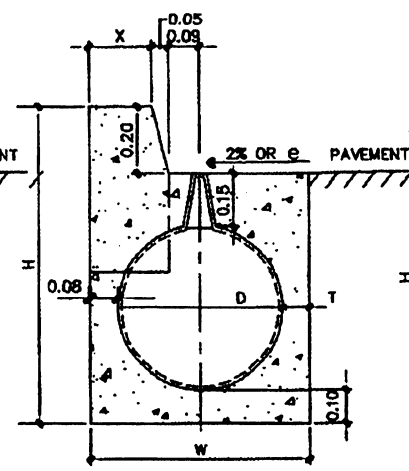
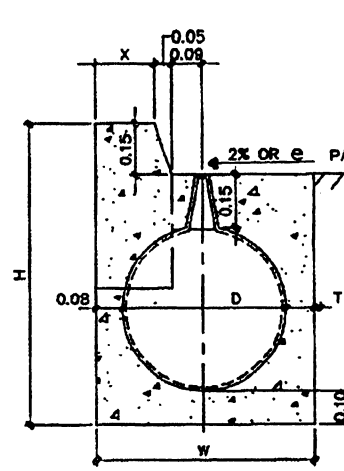
TYPE A CURB

TYPE B CURB

TYPE C CURB AND GUTTER

SLOTTED PIPE DRAIN DETAIL WITH MOUNTABLE CURBS

| DIMENSIONS FOR 18", 24", 30" AND 36" SLOTTED PIPES | | | | | | | | | | | | | | | | |
|--|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|------|
| CURB OR BARRIER TYPE | D=18" | | | | D=24" | | | | D=30" | | | | D=36" | | | |
| | H | W | X | T | H | W | X | T | H | W | X | T | H | W | X | T |
| A | 0.83 | 0.64 | 0.13 | 0.06 | 0.96 | 0.80 | 0.21 | 0.06 | 1.14 | 0.95 | 0.29 | 0.06 | 1.29 | 1.10 | 0.36 | 0.08 |
| B | 0.83 | 0.64 | 0.08 | 0.06 | 0.96 | 0.80 | 0.16 | 0.06 | 1.14 | 0.95 | 0.24 | 0.06 | 1.29 | 1.10 | 0.31 | 0.08 |
| C | 0.85 | 0.64 | 0.23 | 0.06 | 1.00 | 0.80 | 0.31 | 0.06 | 1.16 | 0.95 | 0.39 | 0.06 | 1.31 | 1.10 | 0.46 | 0.08 |
| D | 0.88 | 0.64 | 0.18 | 0.06 | 1.03 | 0.80 | 0.26 | 0.06 | 1.19 | 0.95 | 0.34 | 0.06 | 1.34 | 1.10 | 0.41 | 0.06 |
| E | 0.93 | 0.64 | 0.18 | 0.06 | 1.06 | 0.80 | 0.26 | 0.06 | 1.24 | 0.95 | 0.34 | 0.06 | 1.39 | 1.10 | 0.41 | 0.06 |
| F | 0.88 | 0.88 | 0.21 | 0.12 | 1.03 | 0.80 | 0.29 | 0.06 | 1.19 | 0.95 | 0.30 | 0.06 | 1.34 | 1.10 | 0.44 | 0.06 |
| CONCRETE BARRIER | 0.73 | 0.64 | 0.32 | 0.06 | 0.88 | 0.80 | 0.40 | 0.06 | 1.04 | 0.95 | 0.48 | 0.06 | 1.19 | 1.10 | 0.55 | 0.06 |

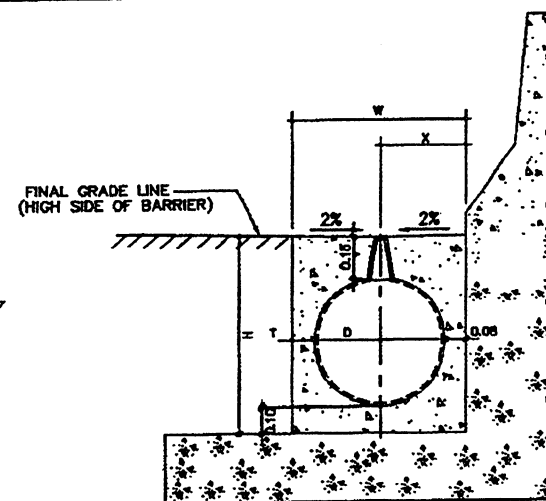
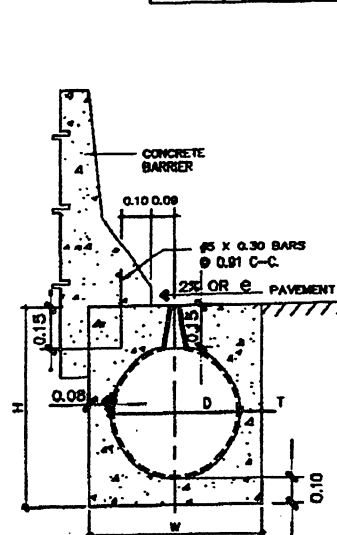


TYPE D CURB

TYPE E CURB

TYPE F CURB AND GUTTER

SLOTTED PIPE DRAIN DETAIL WITH BARRIER CURBS



SLOTTED PIPE DRAIN DETAIL WITH CONCRETE BARRIERS TYPE A, C, D & E

SLOTTED PIPE DRAIN DETAIL WITH CONCRETE BARRIERS TYPE B

NOTES:

- 1- DIMENSIONS H, W, X, AND T FOR 18", 24", 30", AND 36" SEE TABLE.
- 2- FOR SLOTTED PIPE MATERIALS SEE STD. SPEC. 707-3.
- 3- COUPLING BAND SHALL CONFORM WITH AASHTO SPEC. M 38.
- 4- CLASS A CONCRETE SHALL BE USED FOR CURB, CURB AND GUTTER AND PIPE ENVELOPE OR BACKFILL.
- 5- SLOTTED PIPE SHALL HAVE 2 2/3" X 1/2" CORRUGATIONS, GAGE 16.
- 6- THE SLOT SHALL BE COVERED WITH A HEAVY DUTY TAPE OR OTHER APPROVED COVERING DURING BACKFILLING AND PAVING OPERATIONS TO PREVENT INFILTRATION OF MATERIAL INTO THE PIPE.
- 7- CLASS A CONCRETE FOR PIPE ENVELOPE AND CURBS AND GUTTERS WILL NOT BE MEASURED FOR DIRECT PAYMENT BUT SHALL BE A SUBSIDIARY OBLIGATION OF THE CONTRACTOR WITH ITS COST INCLUDED IN THE CONTRACT UNIT PRICE FOR SLOTTED PIPE.

- 8- ON NEW OR RECONSTRUCTION PROJECTS, THE COST FOR THE DEMOLITION OF SIDEWALKS AND CONCRETE CURBS, CURBS & GUTTERS AS WELL AS NEW SAW CUTS, DOWELS AND COLD JOINTS SHALL BE A SUBSIDIARY OBLIGATION OF THE CONTRACTOR IN THE UNIT PRICE FOR SLOTTED PIPE.
- 9- A SAW CUT SHALL BE MADE ALONG THE EDGE OF THE CONCRETE BACKFILL AND EXISTING PAVEMENT TO ASSURE A NEAT FINISH LINE.
- 10- ALL GRAY CAST IRON PRODUCTS USED IN THE "DR" SERIES OF THE STANDARD DRAWINGS MUST BE FROM APPROVED MANUFACTURERS AND THE APPROVED PRODUCTS IDENTIFIED BY PRODUCT NUMBER OR CATALOG NUMBER LISTED IN THE APPROVED LIST OF MANUFACTURERS AND PRODUCTS CONTAINED IN THE FIRST PAGE OF THE "DR" SERIES.

LEGEND

e = % SUPERELEVATION

EFFECTIVE DATE: DECEMBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

RECOMMENDED BY: [Signature]
DESIGN AREA DIRECTOR
DATE: 12-7-98

APPROVED BY: [Signature]
EXECUTIVE DIRECTOR
DATE: 12-7-98

APPROVED BY: [Signature]
DIV. ADM. FHWA-PR DIVISION
DATE: 12-7-98

| DATE | REVISION | BY |
|---------|-------------|------|
| 12-1998 | ADD NOTE 10 | L.V. |

STD. DR
DWG. 2 OF 40