4" x 4" GALVANIZED STEEL INLET PIPES, PLACED AT 5% SLOPE. SEE NOTE 23.

8" WARPED CONC GUTTER

TOP ELEVATION OF GROUTED COBBLES TO MATCH ADJACENT TOP OF SWALE ELEVATIONS

TC = TOP OF CONCRETE AT WARPED GUTTER
G = TOP OF (C) GUTTER ELEVATION

STANDARD PLAN NO. S-482-0
INLET PIPES AT FACE OF WARPED CURB AND GUTTER

OUTLET PIPES AT FACE OF INTEGRAL CURB AND GUTTER

TYPICAL TRANSVERSE BRACE WALL
PLANTING TEMPLATES (SCHEMATIC ONLY*)

* SEE APPROVED PLANT MATERIAL LIST ON SHEET 9 OF STANDARD PLAN NO. S-484.
PLANTED FOREBAY WITH APPROVED TOPSOIL IS REQUIRED. PLANTING PLANS MAY BE ALTERNATED OR COMBINED.

PLANTING MATERIALS AND OBJECTIVES:

FOREBAY:
REDUCE INFLOW VELOCITY AND REDUCE EROSION.

TYPE A:
INCLUDES A PLANTED FOREBAY, USE INUNDATION TOLERANT SPECIES WITH GROWTH FORMS THAT REDUCE INFLOW VELOCITY AND ROOTS THAT ASSIST IN EROSION CONTROL. INSTALL WITH MULCH OR PEAGRAVEL.

TYPE B:
INUNDATION AND DROUGHT TOLERANT SPECIES WITH ROOT SYSTEMS THAT RESISTS EROSION. INSTALL WITH MULCH OR PEAGRAVEL.
1. PARKWAY SWALE SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPC) AS AMENDED BY THE BROWN BOOK LATEST EDITION AND TO THE REQUIREMENTS SPECIFIED IN STANDARD PLAN S-480, LATEST EDITION.
2. PARKWAY SWALES SHALL ONLY BE CONSTRUCTED IN AREAS WITH WELL DRAINING SOILS. THE MINIMUM SITE SOIL PERCOLATION RATE SHALL BE 0.5 INCHES PER HOUR.
3. PARKWAY SWALE STANDARD PLANS SHALL NOT BE USED IN LOCATIONS WITH A LONGITUDINAL STREET SLOPE GREATER THAN 5 PERCENT. WHERE THE STREET LONGITUDINAL SLOPE EXCEEDS 2%, USE THE TRANSVERSE BRACE WALLS AS CHECK DAMS TO LIMIT THE LONGITUDINAL SLOPE WITHIN THE SWALE TO 2% MAX. SEE LONGITUDINAL SWALE SECTION FOR ADDITIONAL INFORMATION.
4. PARKWAY SWALES SHALL BE LOCATED SO AS NOT TO REQUIRE ANY RELOCATION OF EXISTING STREET LIGHTS, TRAFFIC LIGHTS, UTILITY POLES, OR REMOVAL OF STREET TREES. SEE DNP POLE AND ANCHOR CLEARANCES REQUIREMENTS FOR PARKWAY SWALE SETBACKS FROM UTILITY POLES AND ANCHOR RODS.
5. MINIMUM LENGTH OF SWALE TO BE 16 FEET AND MAXIMUM LENGTH TO BE 20 FEET.
6. CONSTRUCT CONCRETE SIDEWALK WHEN SPECIFIED ON PLANS. WIDTH OF SIDEWALK TO BE MINIMUM 4'-0" WIDE FOR INDUSTRIAL COLLECTOR AND INDUSTRIAL LOCAL STREETS, 5'-0" WIDE FOR NON-CONTINUOUS LOCAL STREETS AND FOR COLLECTOR STREETS.
7. FOR PARKWAY SWALE INSTALLATIONS IN EXISTING SIDEWALKS, REPAIR/REPLACE ANY PORTIONS OF SIDEWALKS TO REMAIN WHICH ARE DAMAGED, SEVERELY CRACKED AND/OR UPLIFTING.
8. MINIMUM 4'-0" FOOT WIDE CONCRETE WALKWAY SHALL BE PROVIDED AT EACH END OF SWALE FOR PEDESTRIAN TRAFFIC.
9. LOCAL DEPRESSION (WARPED GUTTER) PER APWA STANDARD PLAN 313, EXCEPT FOR "K" DIMENSION AS SHOWN HEREIN. PROVIDE MINIMUM 8-INCH THICK COMPACTED CRUSHED MISC. BASE BELOW WARPED GUTTER.
10. CONSTRUCT INTEGRAL CURB AND GUTTER PER STANDARD PLAN S-410 WHEN SPECIFIED ON PLANS.
11. ALL CONCRETE SHALL BE CLASS 520-C-2500 PORTLAND CEMENT CONCRETE.
12. CURB WALLS, END WALLS, AND TRANSVERSE BRACE WALLS SHALL EACH BE Poured MONOLITHIC. JOINTS BETWEEN WALLS SHALL BE SEALED PER SECT. 303-1.8.7 OF THE GREENBOOK.
13. ALL CURB, BRACE, AND END WALLS TO HAVE 1/8-INCH RADIUS ROUNDED CORNERS AT TOP EDGES.
14. EXPANSION JOINTS SHALL BE PROVIDED WITH APPROVED POLYSTYRENE JOINT FILLER AND TWO-PART POLYURETHANE SEALANT.
15. PLACEMENT OF GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECT 300-8 OF THE GREEN BOOK.
16. IMPERMEABLE LINER TO BE A MINIMUM OF 16 MIL THICKNESS.
17. CEMENT GROUT SHALL BE COMPOSED OF ONE PART CEMENT, THREE PARTS SAND AND THE MINIMUM AMOUNT OF WATER NECESSARY FOR THE MIXTURE TO FLOW UNDER ITS OWN WEIGHT.
18. COBBLE STONES TO BE ROUNDED AND 2-INCH TO 4-INCH IN DIAMETER AND SHALL BE EMBEDDED ONE INCH MINIMUM INTO TWO INCH THICK CEMENT GROUT.
19. PLACEMENT OF GRAVEL (1-INCH PERMEABLE AGGREGATE BASE) TO BE SELF COMPACTING.
20. COMPACT TOP SOIL TO 80-85 PERCENT RELATIVE COMPACTION. TOP SOIL TO BE PLACED IN MINIMUM OF TWO EQUAL LIFTS, IN ORDER TO MINIMIZE COMPACTION AND EXCESSIVE SETTLEMENT.
21. SOIL AMENDMENTS SHALL CONFORM TO THE REQUIREMENTS OF S-480.
22. A TEMPORARY IRRIGATION SYSTEM IS REQUIRED TO BE INSTALLED FOR PLANT ESTABLISHMENT.
23. INLET AND OUTLET PIPES SHALL BE GALVANIZED 4" STANDARD PIPE.