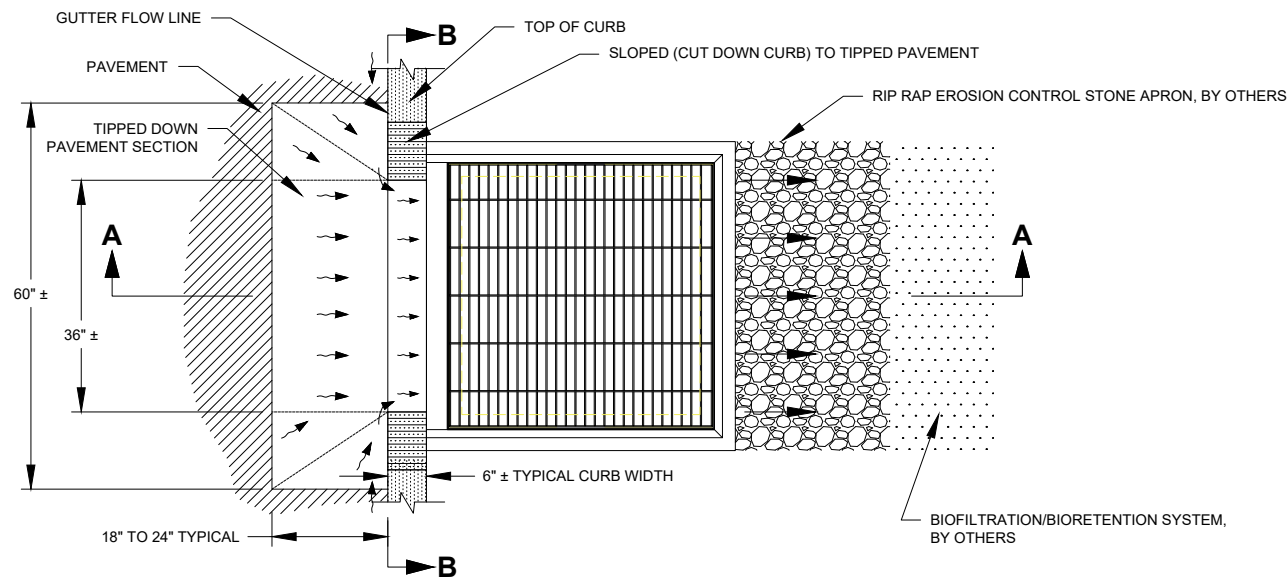
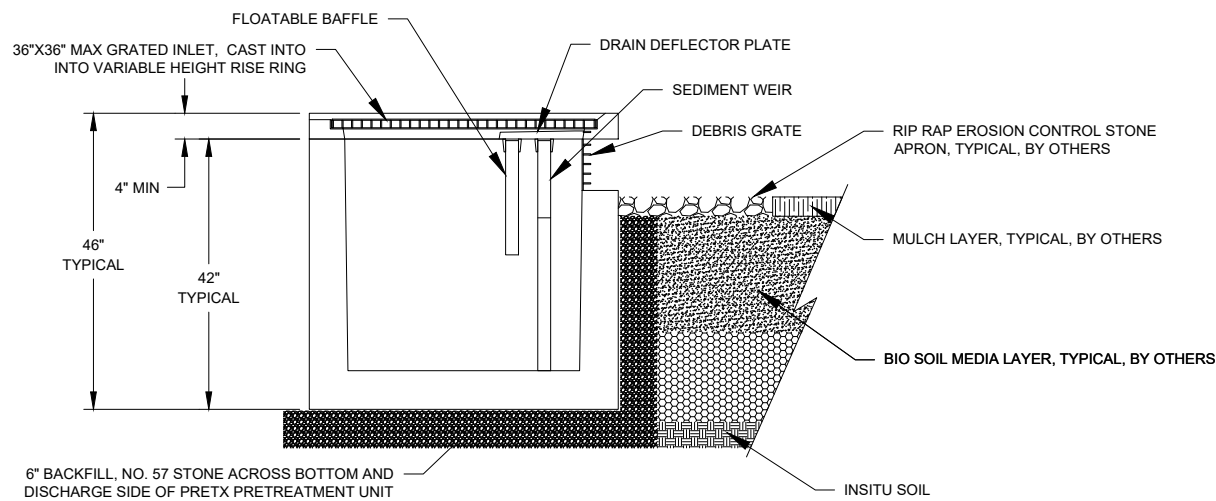


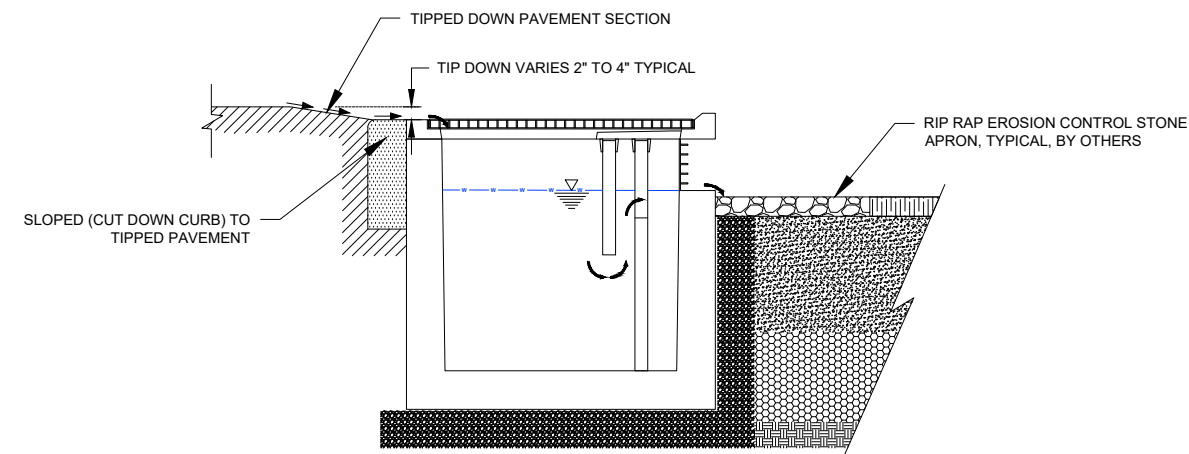
DETAIL 1, PLAN VIEW - PRETX LT DROP INLET



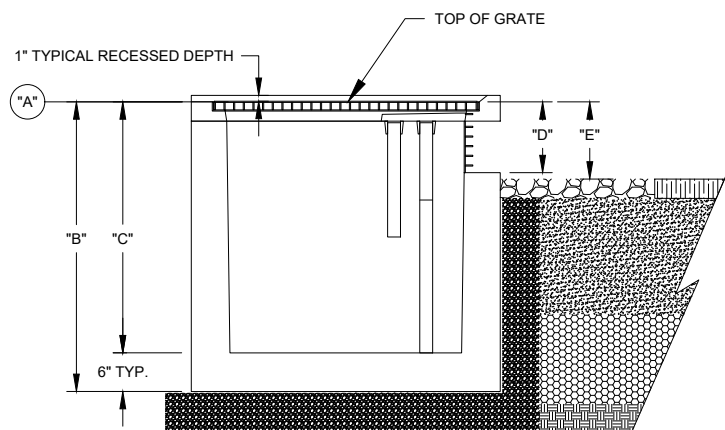
DETAIL 4, PAVEMENT TIP DOWN & CURB CUT'S INLET FLOW



DETAIL 2, PROFILE VIEW - PRETX LT DROP INLET



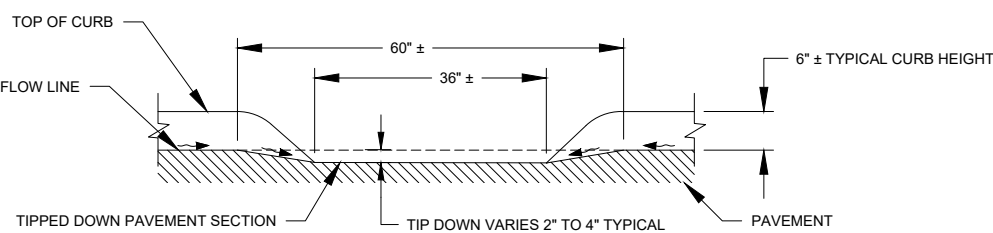
SECTION A-A, PAVEMENT TIP DOWN & CURB CUT'S INLET FLOW



OFFSET DEPTHS		
A	RIM = "TOP OF GRATE" / EDGE OF "TIPPED" DOWN PAVEMENT	0"
B	EXTERIOR BOTTOM	45"
C	DEPTH TO INTERIOR SUMP INVERT (INCHES)	39"
D	DEPTH FROM GRATE TO DISCHARGE OPENING	11"
E	DEPTH FROM GRATE TO TOP OF BIORETENTION	12"

NOTE: THESE DEPTH OFFSET VALUES MAY CHANGE DUE TO VARIATION IN REGIONAL MANUFACTURING OF THE TOP, WHICH IS TYPICALLY 4-INCHES THICK, BUT COULD BE 5 OR 6-INCHES DEPENDING ON REGIONAL MANUFACTURING CAPACITIES.

DETAIL 3, OFFSET DEPTHS



SECTION B-B, PAVEMENT TIP DOWN & CURB CUT'S INLET FLOW

MAXIMUM PICK WEIGHT = 5,200-LBS

PRETX SPECIFICATIONS

A. GENERAL

PRETX SYSTEMS ARE A PRE-FILTER AND CRITICAL MAINTENANCE DEVICE THAT EXTENDS THE OPERATING LIFE AND REDUCES THE MAINTENANCE BURDEN OF BIORETENTION SYSTEMS, RAIN GARDENS, BIOSWALES AND OTHER TYPES OF SURFACE BEST MANAGEMENT PRACTICES BY FILTERING OUT SEDIMENT, TRASH AND DEBRIS BEFORE FLOWS CAN ENTER THESE SYSTEMS. PRETX IS SIZED TO PRETREAT WATER QUALITY FLOWS AND BYPASS LARGER FLOWS THAT HAVE MINIMAL TRASH AND DEBRIS. PRETX CAN BE USED BOTH IN RETROFIT OR NEW INSTALLATIONS.

B. PRODUCTS

- PRETX IS AVAILABLE IN 3 MODELS THAT PROVIDE PRETREATMENT FOR MANAGE MOST BIORETENTION INLET CONFIGURATIONS: CURB, DROP, AND LT.
- PRETX-CURB IS FOR EDGE OF PAVEMENT RUNOFF AT A CURB CUT IN LIEU OF A STONE SPREADER.
- PRETX-DROP IS FOR USE AS A DROP INLET CONFIGURATION ALONG A CURB LINE AND WOULD BE INSTALLED WITH A STANDARD DROP INLET GRATE.
- PRETX LT IS BEST FOR PRETREATING RUNOFF FLOWS FROM THE EDGE OF PAVEMENT AREAS AS WELL AS RUNOFF FROM GUTTERS AT THE CURB FACE USING SIMPLE CURB CUTS.
- ACCEPTABLE SYSTEM SUPPLIER SHALL BE CONVERGENT WATER TECHNOLOGIES, INC. OR ITS AUTHORIZED VALUE-ADDED RESELLER: (800) 711-5428, WWW.CONVERGENTWATER.COM

C. SUBMITTALS

- SUBMIT PROPOSED LAYOUT DRAWINGS. DRAWINGS SHALL INCLUDE TYPICAL SECTION DETAILS ANNOTATED WITH SYSTEM ELEVATIONS (E.G., RIM, PIPE INVERTS, OUTSIDE BOTTOM OF STRUCTURE, ETC.)
- SUBMIT MATERIAL CERTIFICATES FOR FRAMES AND COVERS
- ANY PROPOSED EQUAL ALTERNATE PRODUCT SUBSTITUTION TO THIS SPECIFICATION MUST BE SUBMITTED FOR REVIEW AND APPROVED PRIOR TO BID OPENING.

D. EXECUTION

- ALL PUBLIC STORM DRAINAGE SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF GOVERNING STANDARDS AND SPECIFICATION, MUNICIPAL, REGIONAL AND/OR STATE.
- ALL STORM DRAINAGE SYSTEM CONSTRUCTION IS SUBJECT TO INSPECTION AND APPROVAL BY THE PROJECT ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND OBTAINING APPROVAL FROM DIO-SAFE AND DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION EXCAVATION AND SHALL NOTIFY THE PROJECT ENGINEER OF ANY POTENTIAL CONFLICTS.
- TO PROTECT STORMWATER FLOW CONTROL, AND QUALITY TREATMENT FACILITIES FROM SEDIMENTATION, THEY SHALL BE CONNECTED TO THE STORM CONVEYANCE SYSTEM ONLY AFTER ALL SITE WORK, ROAD CONSTRUCTION, UTILITY WORK AND LANDSCAPING ARE IN PLACE IN ALL AREAS ABOVE AND UPSTREAM OF THE FACILITY.
- THE EXISTING STORM SEWER SYSTEM SHALL STAY ISOLATED FROM THE NEW SYSTEM UNTIL THE NEW SYSTEM IS CLEANED, AND APPROVED FOR USE. THERE SHALL BE NO DEBRIS IN THE LINES OR FURTHER CLEANING WILL BE REQUIRED PRIOR TO ACCEPTANCE.
- WHEN APPLICABLE PROVIDE A 1.5" MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, GROUT FILL THE GAP WITH JOINT MORTAR.
- ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.
- STANDARD CURB INLETS AND TIP DOWNS SHALL BE CAST-IN-PLACE CONCRETE OR ASPHALT.
- PIPE ENDS SHALL BE FLUSH WITH THE INNER WALL OR 1" MAXIMUM INTRUSION. MASONRY, CINDER BLOCKS, OR SIMILAR MATERIALS MAY BE USED TO ADJUST THE RISERS TO GRADE PRIOR TO GROUTING.
- GROUTING SHALL BE SUFFICIENT TO PREVENT LEAKS BETWEEN THE PRECAST COMPONENTS OF THE COMPLETED STRUCTURE & SHALL BE PERFORMED INSIDE, BETWEEN &

OUTSIDE OF ALL RISERS, JOINTS & PIPE PENETRATIONS.

- MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH ACI 318, ASTM C-890, C-857, C-858 C-913 & AASHTO HS20-44, M-105, M-259, M-273 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE STANDARD SPECIFICATIONS.
 - ALL REINFORCED CAST IN PLACE CONCRETE SHALL BE CLASS 4000. ALL PRECAST CONCRETE SHALL BE CLASS 4000.
 - PRECAST BASES SHALL BE FURNISHED WITH BLOCKOUTS OR KNOCKOUTS.
- E. CONSTRUCTION AND SEQUENCING:**
- THE FOLLOWING CONSTRUCTION SEQUENCE IS TO BE USED AS A GENERAL GUIDELINE. COORDINATE WITH THE OWNER, AND ENGINEERS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- PREPARATION:
 - IDENTIFY REQUIRED LINES, LEVELS, CONTOURS, AND DATUM.
 - CLEAR AND GRUB THE PROPOSED PRE-TX SYSTEM AREA.
 - EXCAVATION:
 - INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS TO DIVERT STORM WATER AWAY FROM THE PRE-TX SYSTEM AREA.
 - ROUGH GRADE THE PRE-TX SYSTEM AREA DURING GENERAL CONSTRUCTION.
 - EXCAVATE TO THE SUBGRADE OF THE SYSTEM, WHICH INCLUDES THE REQUIRED 6-INCHES OF BASE ROCK.
 - INSTALL TOP OF STRUCTURE LEVEL WITH ADJACENT CURB OR SIDEWALK AS PER MANUFACTURERS SPECIFICATIONS.
 - PLACE 6-INCH BED OF COARSE STONE TO ELEVATION OF BASE OF STRUCTURE.
 - INSTALLATION:
 - PLACE THE PRETX SYSTEM AT NECESSARY ELEVATION TO INCLUDE INVERT S FOR INLETS AND OUTLETS AS SHOWN ON THE DRAWINGS.
 - VERIFY ELEVATIONS OF ADJACENT CURB AND GUTTER FLOW LINE AS WELL AS ELEVATION OF THE EDGE OF THE TIPPED DOWN PAVEMENT TO ENSURE PROPER FLOW TO INLET GRATE.
 - VERIFY OUTLET INVERT FOR DISCHARGE WEIR WALL IN RELATION TO FILTER MEDIA.
 - FOR PRETX-DROP:
 - VERIFY ALL INLET PIPES ENTER THE STRUCTURE UPSTREAM OF BAFFLES WITHIN THE PRETX UNIT.
 - VERIFY FRAME AND GRATE OFFSET ON INLET SIDE AND UPSTREAM OF BAFFLE OR DRAINAGE DEFLECTION PLATE.
 - VERIFY CURB LOCATION WITH RESPECT TO FRAME AND GRATE ORIENTATION.
 - INSTALL BAFFLES, WEIR, AND SCREENS AS INDICATED ON DRAWINGS IF NOT PRE-INSTALLED.
 - VERIFY MAINTENANCE ACCESS THROUGH GRATE OR COVER AND ADEQUATE CLEARANCE FOR VACUUM TRUCK SERVICE.
 - BACKFILL WITH #1 OF NO. 57 STONE OR EQUAL AROUND DISCHARGE SIDE OF UNIT AND ON BOTH SIDES FROM THE DISCHARGE.
 - CLEAN UP: AFTER COMPLETION OF THE WORK, REMOVE AND PROPERLY DISPOSE ALL DEBRIS, CONSTRUCTION MATERIALS, RUBBISH, EXCESS SOIL, ETC., FROM THE PROJECT SITE. REPAIR PROMPTLY ANY IDENTIFIED DEFICIENCIES AND LEAVE THE PROJECT SITE IN A CLEAN AND SATISFACTORY CONDITION.

REV DATE: 11/28/223
CHECKED BY: SG



PATENT NO.: US 10,704,248 B2, PATENT DATE: JULY 7, 2020

TO FIND A VALUE ADDED RESELLER IN YOUR AREA VISIT
WWW.CONVERGENTWATER.COM/STORMWATER-PRODUCTS
OR CONTACT CONVERGENT WATER TECHNOLOGIES AT
1.800.711.5428



D-1 PRETX™ LT DROP INLET PRETREATMENT DETAIL

