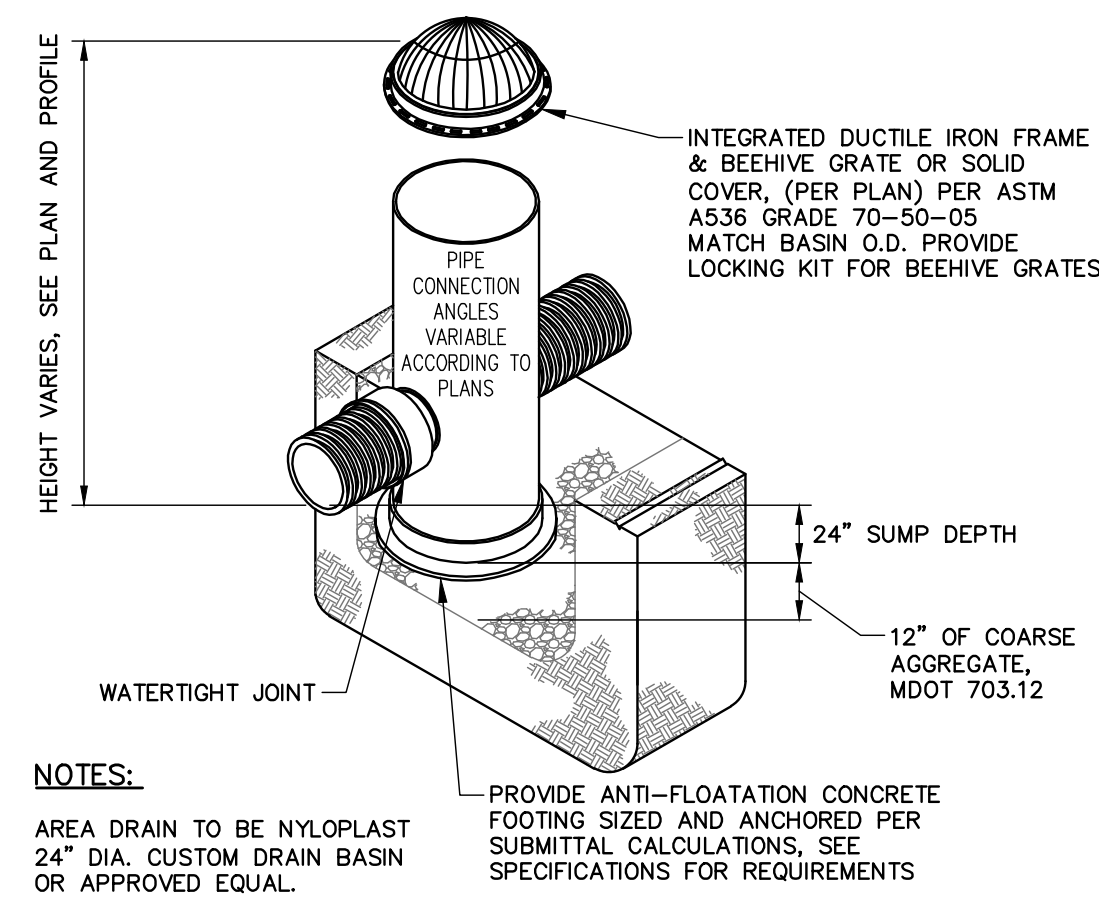


**NOTE:**

- CONTRACTOR SHALL USE GRANULAR BORROW AS FILL ABOVE NATIVE SUBGRADE AND BELOW ROADWAY AND SIDEWALK GRAVEL. CONTRACTOR SHALL USE COMMON BORROW AS FILL IN ALL SHOULDER INSLOPES, BEYOND LIMITS OF ROADWAY AND SIDEWALK PAVEMENT AREAS.

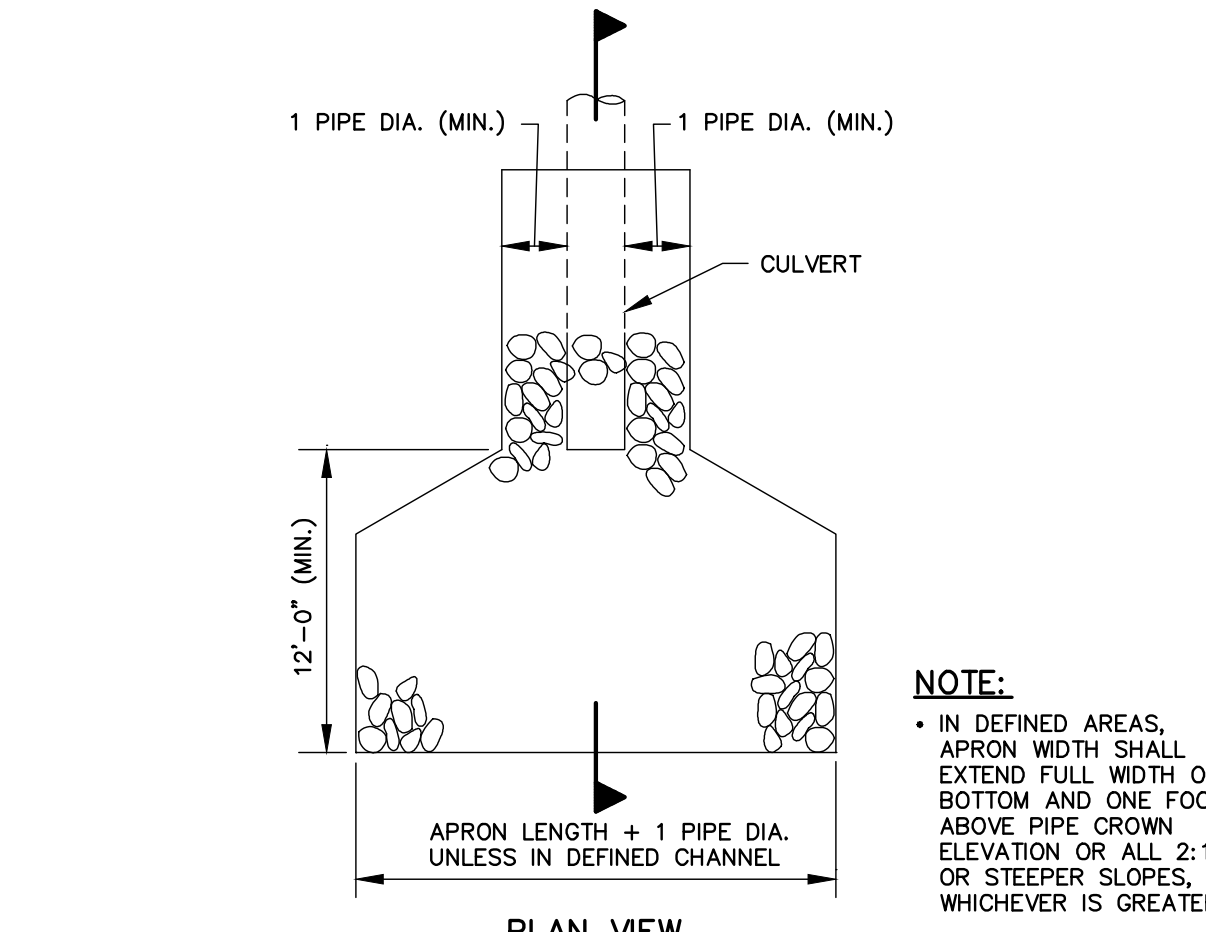
**ROADWAY CROSS SECTION**  
N.T.S.



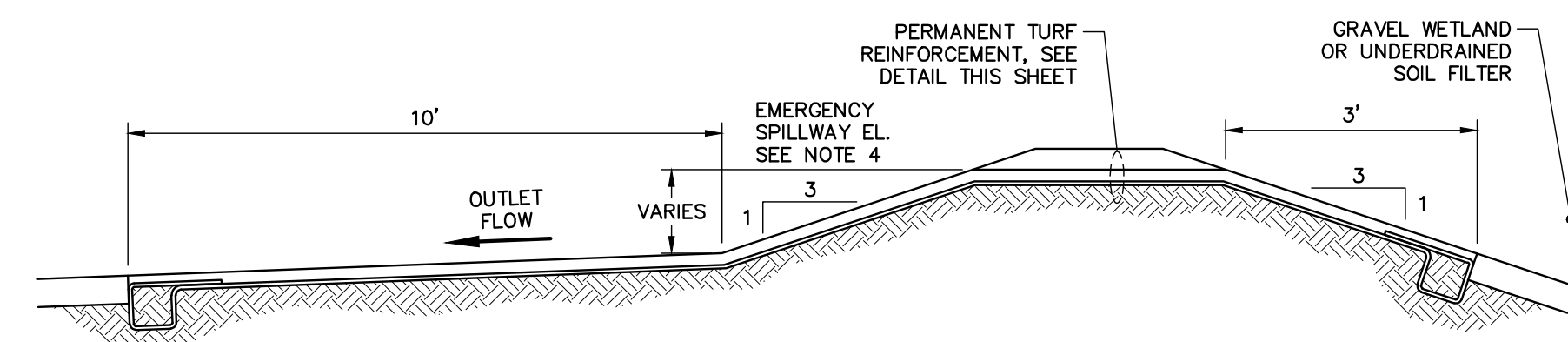
**NOTES:**

- AREA DRAIN TO BE NYLOPLAST 24" DIA. CUSTOM DRAIN BASIN OR APPROVED EQUAL.
- PROVIDE ANTI-FLOATATION CONCRETE FOOTING SIZED AND ANCHORED PER SUBMITTAL CALCULATIONS, SEE SPECIFICATIONS FOR REQUIREMENTS

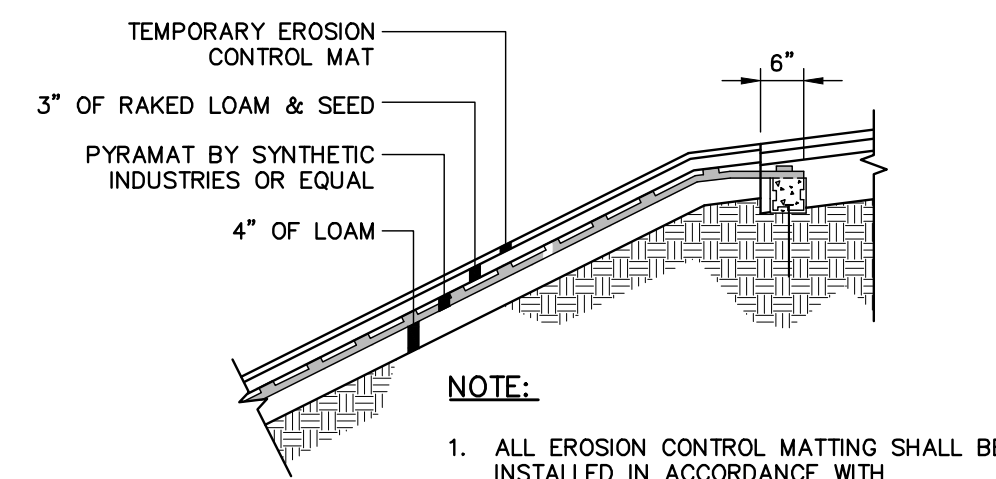
**2' DIA. AREA DRAIN**  
N.T.S.



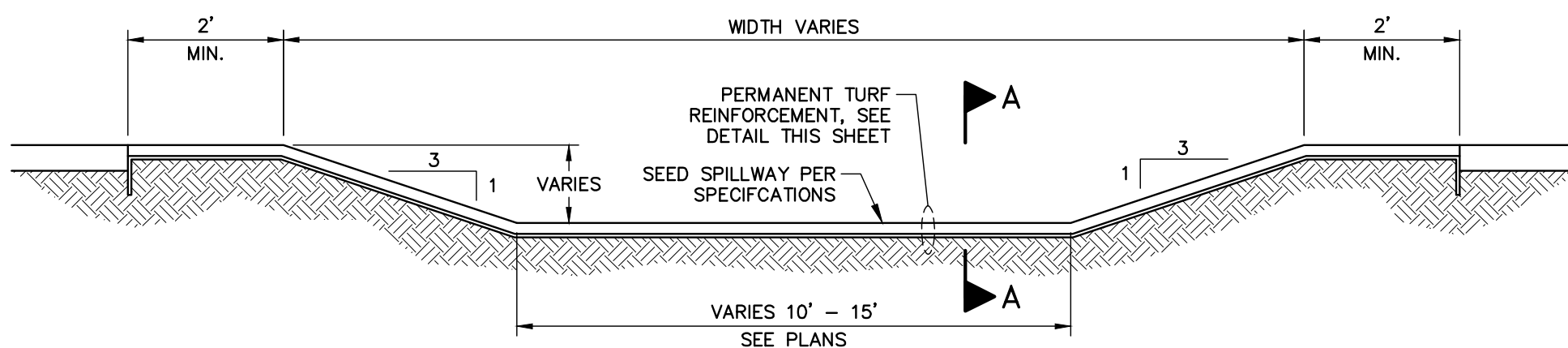
**RIP-RAP OUTLET PROTECTION APRON DETAIL**  
N.T.S.



**SECTION A-A**



**PERMANENT TURF REINFORCING DETAIL**  
N.T.S.

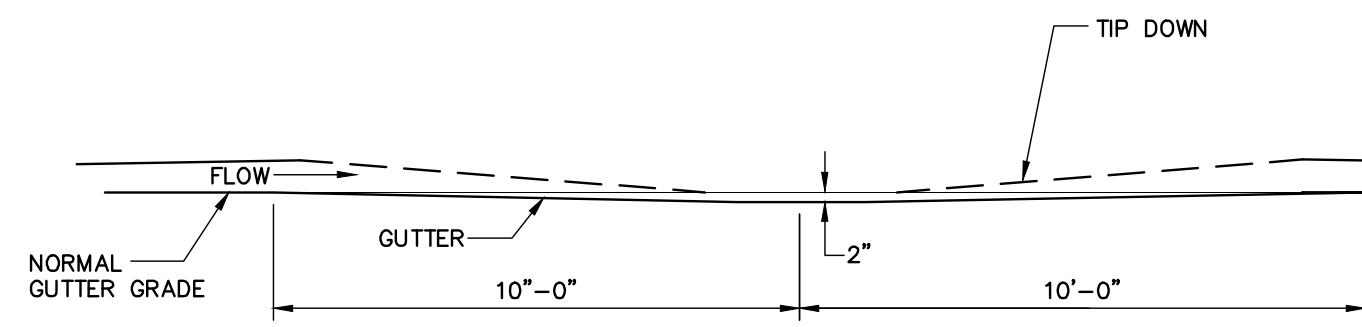


**EMERGENCY SPILLWAY SECTION**

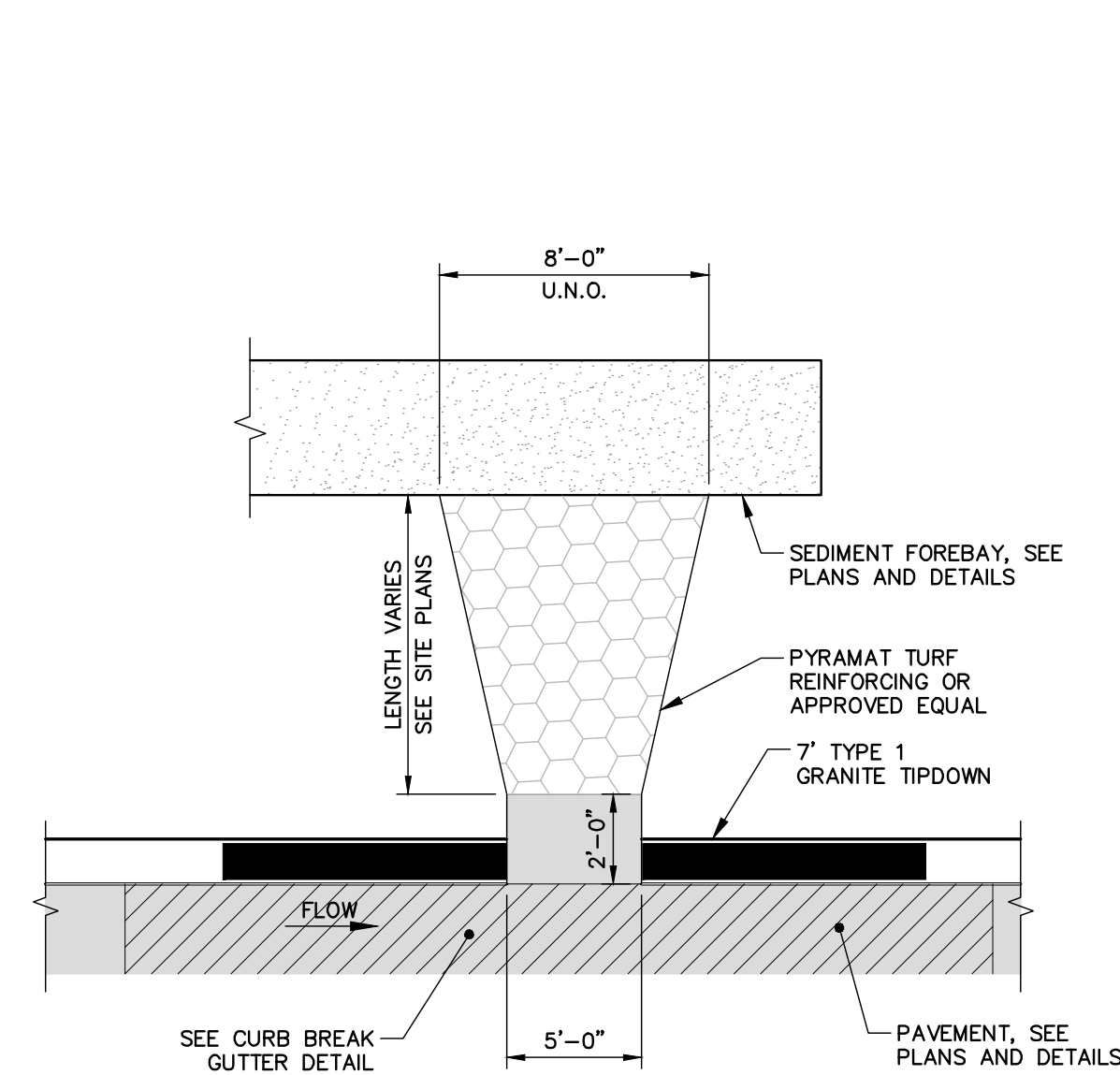
**NOTES:**

- CONSTRUCTION OF NON-CONDUCTIVE SOILS/CLAY.
- EROSION CONTROL MESH WHERE SPECIFIED ON PLANS.
- LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL NOTES.
- FOR SPILLWAY ELEVATION SEE GRAVEL WETLAND SCHEDULE AND UNDERDRAINED SOIL FILTER SCHEDULE ON SHEET C-06.

**EMERGENCY SPILLWAY DETAIL**  
N.T.S.



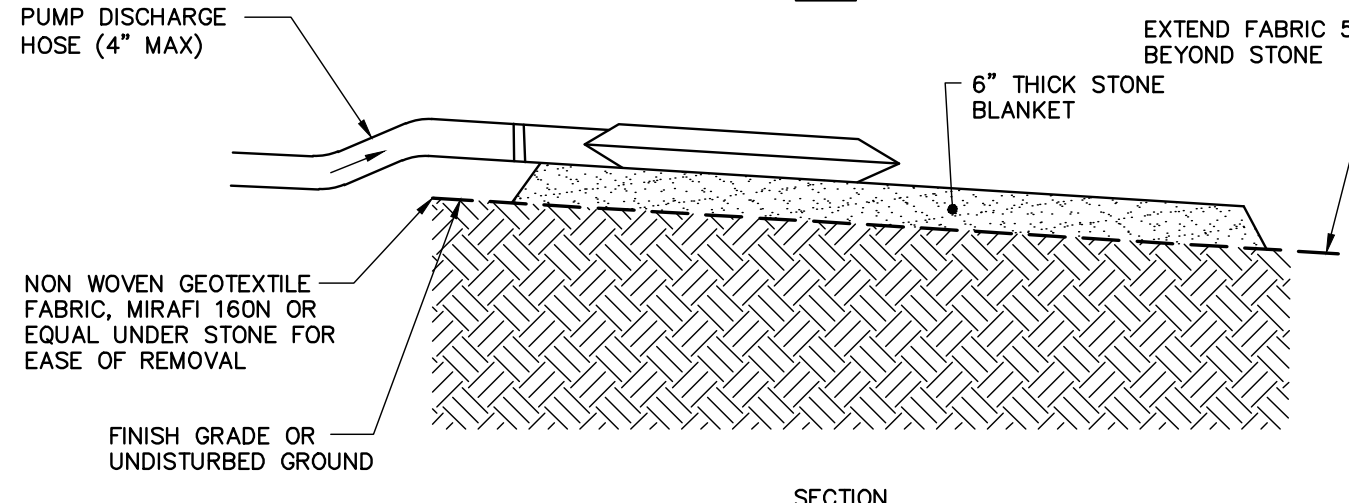
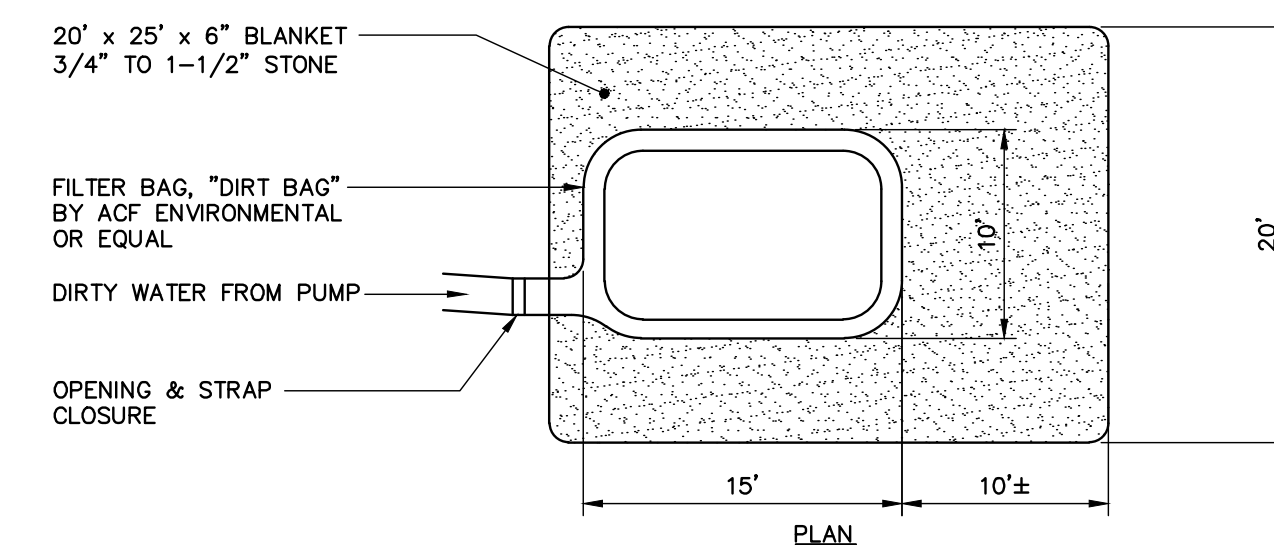
**CURB BREAK GUTTER DETAIL**  
N.T.S.



**STABILIZED TURNOUT DETAIL**  
N.T.S.

**DEWATERING NOTES**

- LOCATE DISCHARGE SITE ON FLAT UPLAND AREAS AS FAR AWAY AS POSSIBLE FROM STREAMS, WETLANDS, OTHER RESOURCES AND POINTS OF CONCENTRATED FLOW.
- DISCHARGE NOT PERMITTED WITHIN 25' OF A STREAM OR WETLAND. CONSULT DEP IF STRUCTURE MUST BE WITHIN 75' OF STREAM OR WATER BODY. SECONDARY CONTAINMENT MAY BE REQUIRED.
- DOWNGRADIENT RECEIVING AREA MUST BE WELL VEGETATED OR OTHERWISE STABLE FROM EROSION, I.E. FOREST FLOOR OR COARSE GRAVEL/STONE.
- NEVER DISCHARGE TO AREAS THAT ARE BARE OR NEWLY VEGETATED.
- DIRT BAG MATERIAL BASED ON PARTICLE SIZE IN DIRTY WATER, I.E., FOR COARSE PARTICLES A WOVEN MATERIAL; FOR SILTS/CLAYS A NON-WOVEN MATERIAL.
- DO NOT OVER PRESSURIZE DIRT BAG OR USE BEYOND CAPACITY.
- CHANNELS DUG FOR DISCHARGING WATER FROM THE EXCAVATED AREA NEED TO BE STABLE. IF FLOW VELOCITIES CAUSE EROSION WITHIN THE CHANNEL THEN A DITCH LINING SHOULD BE USED.
- BUCKETED WATER SHOULD BE DISCHARGED IN A STABLE MANNER TO THE SEDIMENT REMOVAL AREA. A SPLASH PAD OF RIPRAP UNDERLAIN WITH GEOTEXTILE MAY BE NECESSARY TO PREVENT SCOURING OF SOIL.
- DEWATERING IN PERIODS OF INTENSE, HEAVY RAIN, WHEN THE INFILTRATIVE CAPACITY OF THE SOIL IS EXCEEDED, SHOULD BE AVOIDED.
- INSTALL DIVERSION DITCHES OR BERMS TO MINIMIZE THE AMOUNT OF CLEAN STORMWATER RUNOFF ALLOWED INTO THE EXCAVATED AREA.
- DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE DEWATERING FACILITY SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW THAT MAY COMPROMISE THE BUFFER AREA. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.

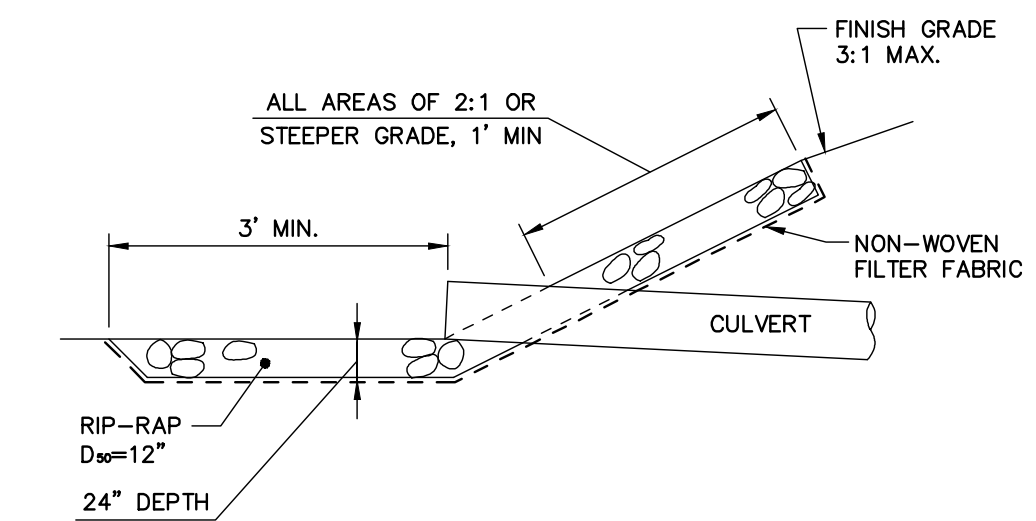


**DEWATERING DISCHARGE SEDIMENT CONTROL DEVICE**  
N.T.S.

**GENERAL NOTES FOR MANHOLES AND CATCH BASINS**

- ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 LBS. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
- MANHOLES MAY BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
- PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-478.
- ALL STORM AND SEWER MANHOLE COVERS SHALL BE SOLID AND SHALL HAVE ONE 7/8" DIAMETER DRILLED PICK HOLE LOCATED 8" FROM THE CENTER OF THE COVER.
- ALL SANITARY MANHOLE COVERS SHALL HAVE "SEWER" CAST INTO THE COVER. ALL STORMWATER/DRAIN MANHOLE COVERS SHALL HAVE "DRAIN" CAST INTO THE COVER.
- ALL MANHOLE RISERS SHALL BE ETHERIDGE 24" OR APPROVED EQUAL.
- SEWER BRICK SHALL CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE MA AND SA.
- ALL SANITARY MANHOLES SHALL HAVE A WATERPROOFING COATING APPLIED TO THE EXTERIOR SURFACE.
- CATCH BASIN FRAMES FOR TYPE A4 CATCH BASIN CURB INLETS SHALL BE ETHERIDGE DR5A OR APPROVED EQUAL.
- CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35.
- EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
- ALL CATCH BASIN OUTLETS SHALL BE INSTALLED WITH A CASCO TRAP.

**NOTE:**  
DETAIL FROM CITY OF PORTLAND, MAINE TECHNICAL STANDARDS MANUAL



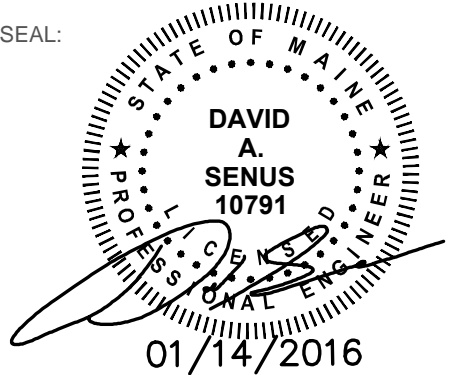
**RIP-RAP INLET PROTECTION DETAIL**  
N.T.S.

PROJECT NAME:

**PATRONS OXFORD OFFICES**

97 TECHNOLOGY PARK DRIVE  
PORTLAND, MAINE 04102  
UNITED STATES OF AMERICA

SEAL:



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PROJECT NUMBER: 2105-0100 PATRONS OXFORD

STATUS: CONSTRUCTION DOCUMENTS

**CIVIL DETAILS 2**