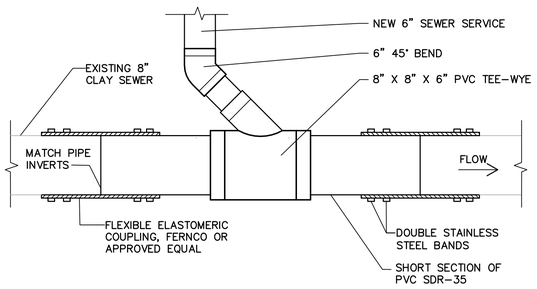
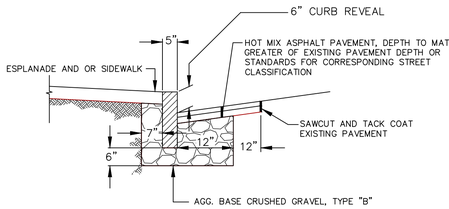


1. If the existing sewer is PVC then the connection shall be made using bell and spigot joints, NOT Ferncos.
2. All damaged piping shall be removed by saw cutting or removing an entire segment of pipe and replaced with new PVC. Contractor shall remove clay bell(s) (by saw cutting) to facilitate Fernco installation. Saw cuts shall be square so that joints between new and existing pipes do not have gaps, particular attention shall be paid to maintaining a smooth invert.
3. Contractor is responsible for maintaining sewer flows while while making the new sewer service and drain connections. If required, bypass pumping shall be coordinated with the City. Contractor shall provide the City 24 hours notice.
4. Bypass pumping may be required and shall be coordinated with the City

* CONTRACTOR MAY USE AN INSERTA TEE OR "APPROVED EQUAL" TO MAKE THE SEWER CONNECTIONS AS APPROVED BY THE CITY OF PORTLAND

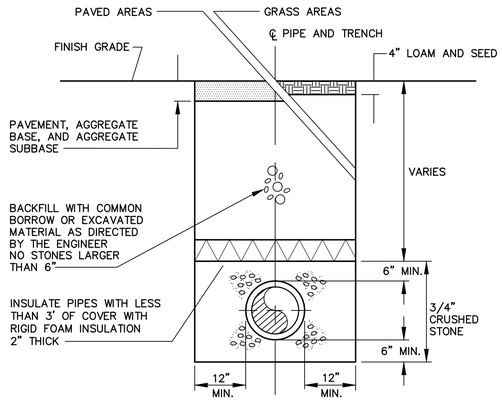
CONNECTION TO SANITARY SEWER
NOT TO SCALE



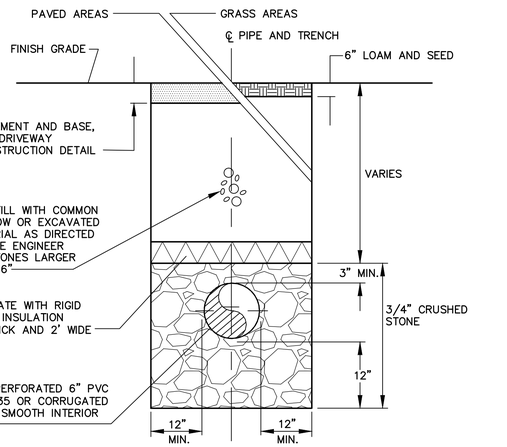
* VERTICAL GRANITE CURB AND TIPDOWNS TO BE 16" DEEP.
* FLUSH GRANITE CURB TO BE 12" DEEP

VERTICAL GRANITE CURB CROSS SECTION

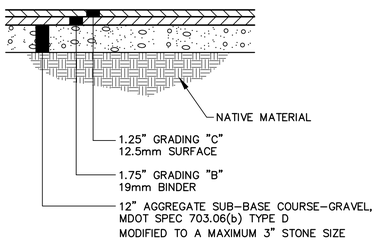
VERTICAL GRANITE CURB (INSTALLATION IN CITY RIGHT OF WAY & WTHIN SITE)
NOT TO SCALE



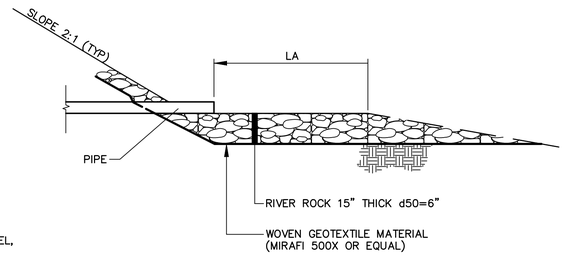
TYPICAL TRENCH REPAIR DETAIL
NOT TO SCALE



UNDERDRAIN DETAIL FOR ROOF DRAIN COLLECTION SYSTEM
NOT TO SCALE



TYPICAL DRIVEWAY CONSTRUCTION OUTSIDE OF RIGHT OF WAY
NOT TO SCALE

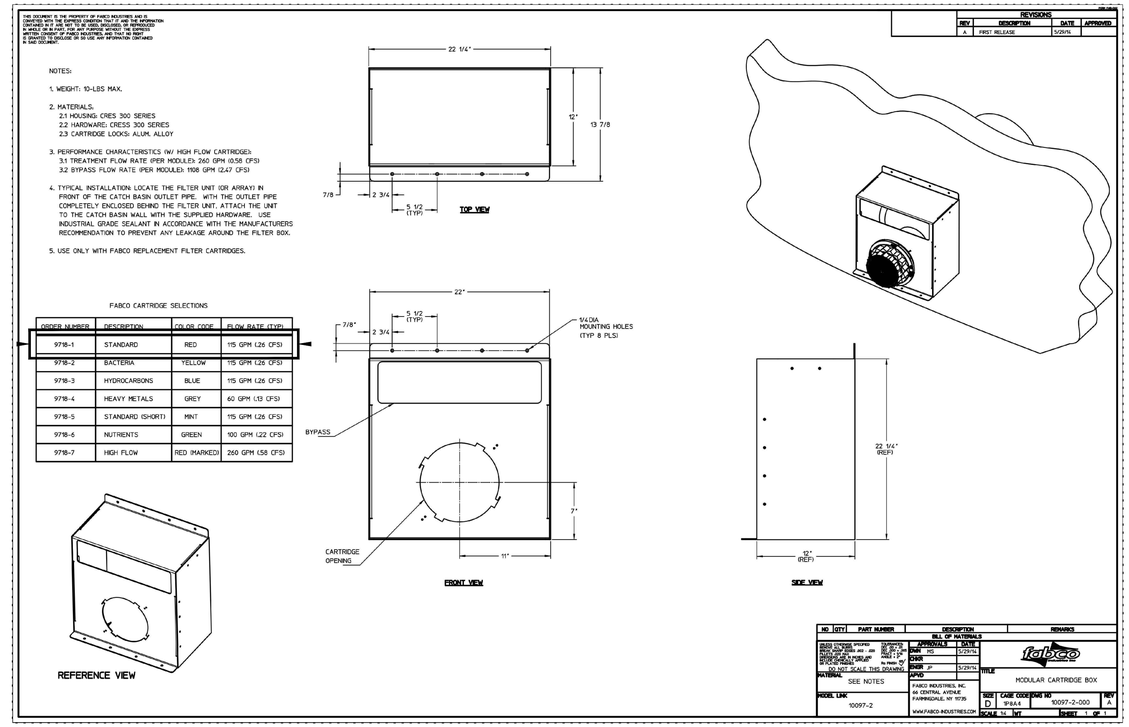


SECTION A-A

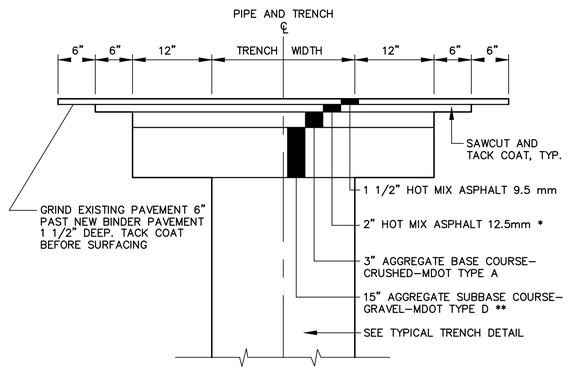
APRON SCHEDULE*					
	RIPRAP**		RIPRAP**		
PIPE	d50 SIZE (FT)	THICKNESS t (INCH)	LENGTH LA (FT) (MIN)	WIDTH W1 (FT)	WIDTH W2 (FT)
12" OR LESS	0.5'	15"	10'	3.0'	12'

* SEE PLANS FOR SHAPE/SIZE OF ENERGY DISSAPAROTRS
** RIP RAP SHALL COSSIST OF ROUND NATURAL STONE SUCH AS RIVER ROCK

ENERGY DISSIPATER (RIVER ROCK) DETAIL
NOT TO SCALE

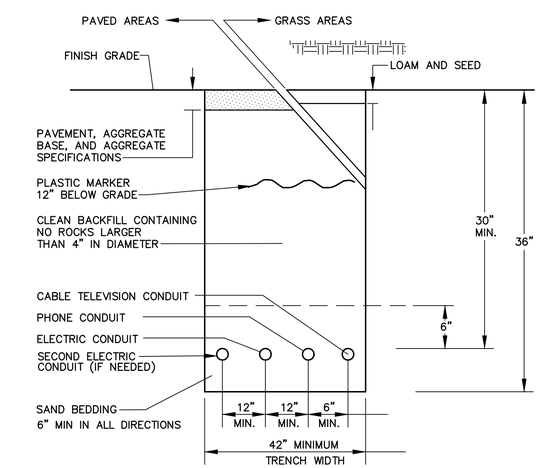


STORWATER FILTER DETAIL
NOT TO SCALE



* ON OCEAN AVENUE 12.5 mm HMA BASE SHALL BE 2.5" THICK
** ON OCEAN AVENUE TYPE D SUB BASE GRAVEL SHALL BE 18" THICK

TYPICAL TRENCH PAVING DETAIL
NOT TO SCALE



SEE ELECTRICAL PLANS FOR CONDUIT SIZES

UNDERGROUND ELECTRIC/COMUNICATIONS UTILITY TRENCH DETAIL
NOT TO SCALE

23 Ocean Avenue

23 OCEAN AVENUE, PORTLAND, MAINE

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Portland, Maine 04101
207-772-2891

STATE OF MAINE John I. Mahoney #12340 LICENSED PROFESSIONAL ENGINEER

CIVIL DETAILS

No.	Revision/Issue	Date
C	FOR PERMIT	12-14-16
B	REVISED PER CITY COMMENT	9-7-16
A	SITE PLAN PERMITTING	6-6-16

Design by: JIM | Checked by: SJB
Drawn by: JIM | Approved by: SJB
Project: 1
Sheet: C2

CITY OF PORTLAND APPROVED SITE PLAN
Subject to Conditions of Approval and Standard Conditions

DATE of APPROVAL 10/25/16
PLANNER Neil Donaldson
PROJECT NO. 2016-150

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