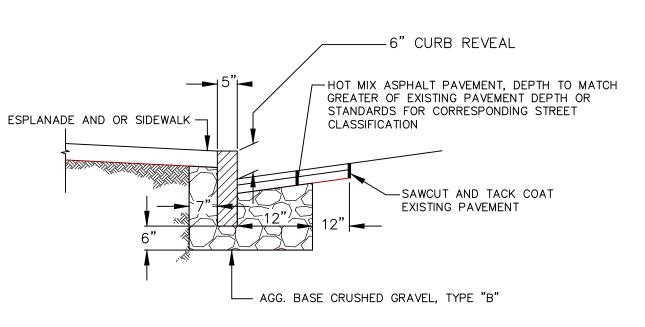


- 1. If the existing sewer is PVC then the connection shall be made using bell and spigot joints, NOT Ferncos.
- 2. All damaged piping shall be removed by saw cutting or removing an entire segment of pipe and replaced with new PVC. Contractor shall remove clay bell(s) (by saw cutting) to facilitate Fernco 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

CONNECTION TO SANITARY SEWER

NOT TO SCALE



VERTICAL GRANITE CURB CROSS SECTION

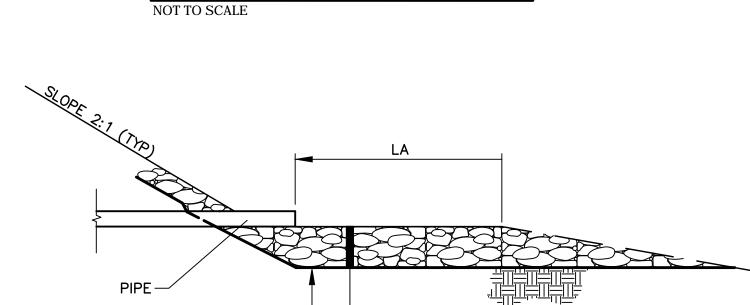
VERTICAL GRANITE CURB INSTALLATION IN EXISTING STREETS

-NATIVE MATERIAL

— 12" AGGREGATE SUB—BASE COURSE—GRAVEL, MDOT SPEC 703.06(b) TYPE D

MODIFIED TO A MAXIMUM 3" STONE SIZE

NOT TO SCALE



□RIVER ROCK 15" THICK d50=6"

-WOVEN GEOTEXTILE MATERIAL

(MIRAFI 500X OR EQUAL)

DRAIN COLLECTION SYSTEM

TYPICAL DRIVEWAY CONSTRUCTION OUTSIDE OF RIGHT OF WAY

____ 1.25" GRADING "C"

12.5mm SURFACE

— 1.75" GRADING "B"

19mm BINDER

	APRON SCHEDULE*							
	RIPR	AP**	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'			

SECTION A-A

* SEE PLANS FOR SHAPE/SIZE OF ENERGY DISSAPAROTRS

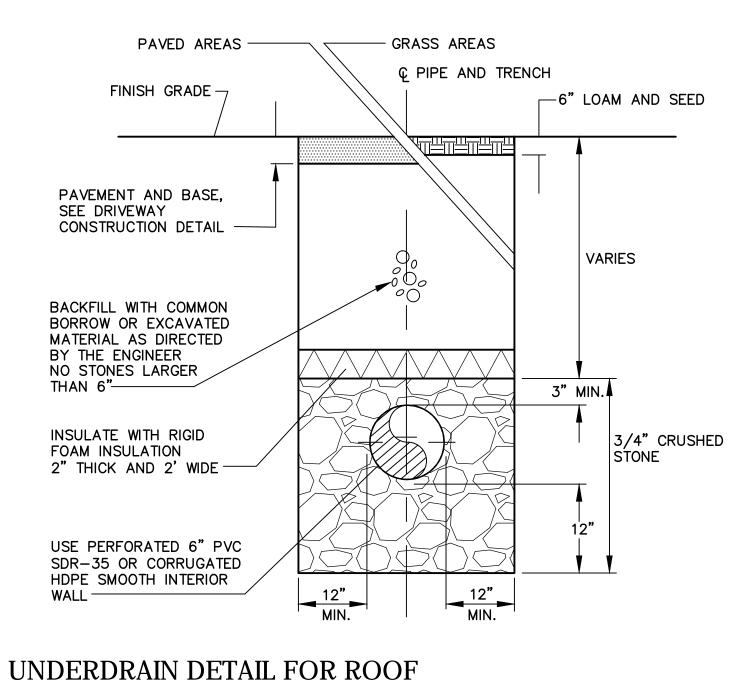
** RIP RAP SHALL COSSIST OF ROUND NATURAL STONE SUCH AS RIVER ROCK

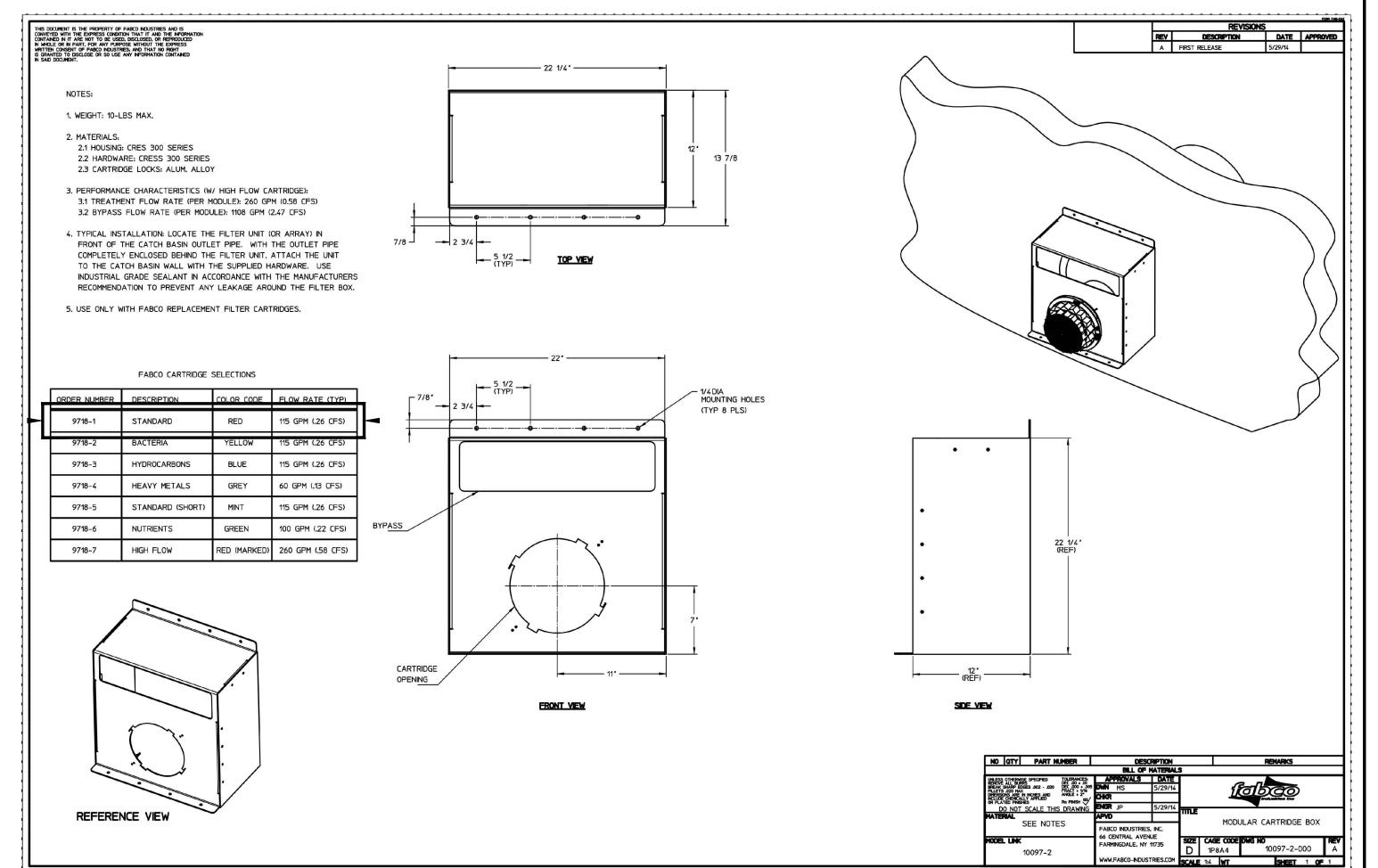
NOT TO SCALE

ENERGY DISSIPATER (RIVER ROCK) DETAIL

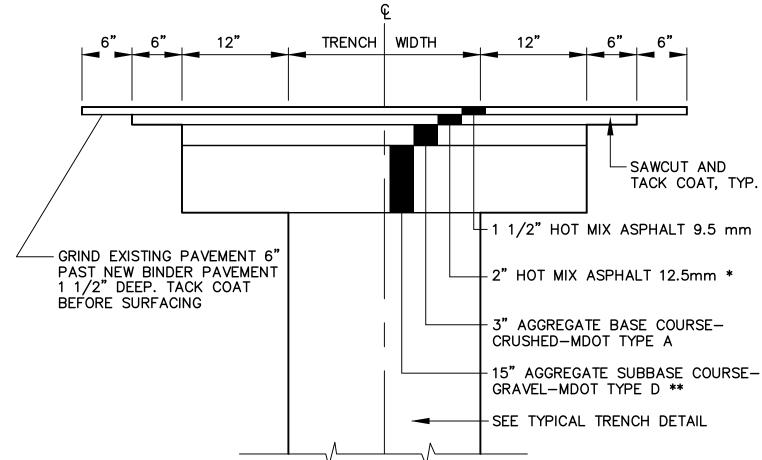
GRASS AREAS PAVED AREAS Ç PIPE AND TRENCH FINISH GRADE --4" LOAM AND SEED PAVEMENT, AGGREGATE BASE, AND AGGREGATE SUBBASE -**VARIES** BACKFILL WITH COMMON BORROW OR EXCAVATED MATERIAL AS DIRECTED BY THE ENGINEER NO STONES LARGER THAN 6"— 6" MIN. INSULATE PIPES WITH LESS THAN 3' OF COVER WITH CRUSHED RIGID FOAM INSULATION 2" THICK -6" MIN.

TYPICAL TRENCH REPAIR DETAIL NOT TO SCALE





STORWATER FILTER DETAIL NOT TO SCALE

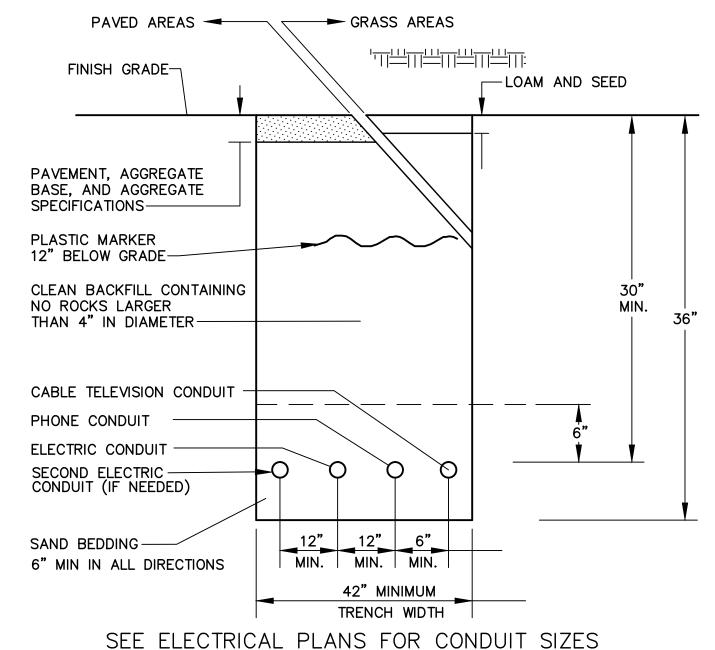


PIPE AND TRENCH

* 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



UNDERGROUND ELECTRIC/COMUNICATIONS UTILITY TRENCH DETAIL

23 Ocean Avenue

23 OCEAN AVENUE, PORTLAND, MAINE

Owner / Developer:

Steven & Roberta Cope 172 Concord Street Portland, Maine 04103

Consultants:



Architect
Kevin Moquin, Architect
Hammond Stret
Portland, Maine 04104
207.615-6421



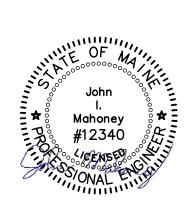
Landscape Architect Carroll Associates 217 Commercial Street Portland, Maine 04101

207.772.1552



Consulting, Inc.

Civil Engineer
Ransom Consulting, Inc.
400 Commercial Street, Suite 404
Portland, Maine 04101
207-772-2891



CIVIL DETAILS

В	REVISED PER CIT	9-7-16				
Α	SITE PLAN PE	6-6-16				
No.	Revision/I	Date				
Desigr	n by:	Checked by:				
	JIM	SJB				
Drawn	by:	Approved by:				
	JIM	SJB				
Projec	ot:					
161	.06035					
Sheet No:						

PERMITTING SET

P:\2016\161.06035\23_OceanStPortland\Drawings\WorkingDrawings\OLD--23-Ocean-Ransom-Plans_2016-08-20.dwg C-102 Sep 08,2016- 12:35pm