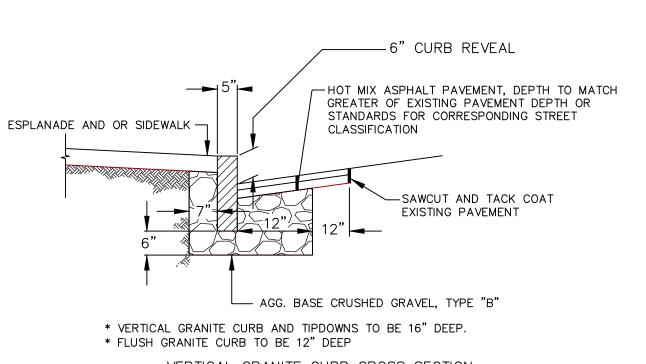


- 1. <u>If the existing sewer is PVC then the connection shall be made using bell and spigot joints, NOT Ferncos.</u>
- 2. All damaged piping shall be removed by saw cutting or removing an entire segment of pipe and replaced with new PVC. Contractor shall remove clay bell(s) (by saw cutting) to facilitate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

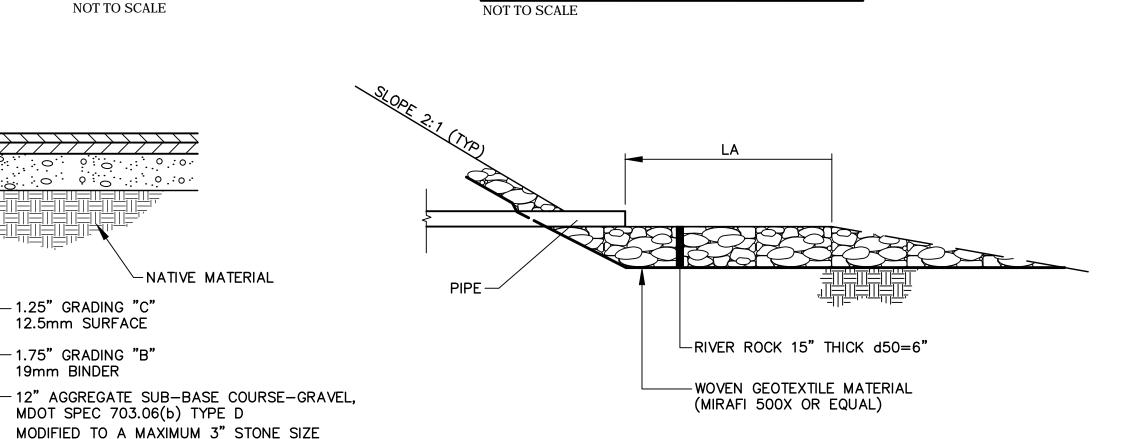
CONNECTION TO SANITARY SEWER



VERTICAL GRANITE CURB CROSS SECTION VERTICAL GRANITE CURB (INSTALLATION IN CITY RIGHT OF WAY

& WTHIN SITE)

NOT TO SCALE



UNDERDRAIN DETAIL FOR ROOF

DRAIN COLLECTION SYSTEM

TYPICAL DRIVEWAY CONSTRUCTION OUTSIDE OF RIGHT OF WAY

____ 1.25" GRADING "C"

12.5mm SURFACE

— 1.75" GRADING "B"

19mm BINDER

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NOT TO SCALE

-NATIVE MATERIAL

	APRON SCHEDULE*						
	RIPRAP**		RIPRAP**				
	PIPE	d50 SIZE (FT)	THICKNESS t (INCH)	LENGTH LA (FT) (MIN)	WIDTH W1 (FT)	WIDTH W2 (FT)	
1	2" OR LESS	0.5'	15"	10'	3.0'	12'	

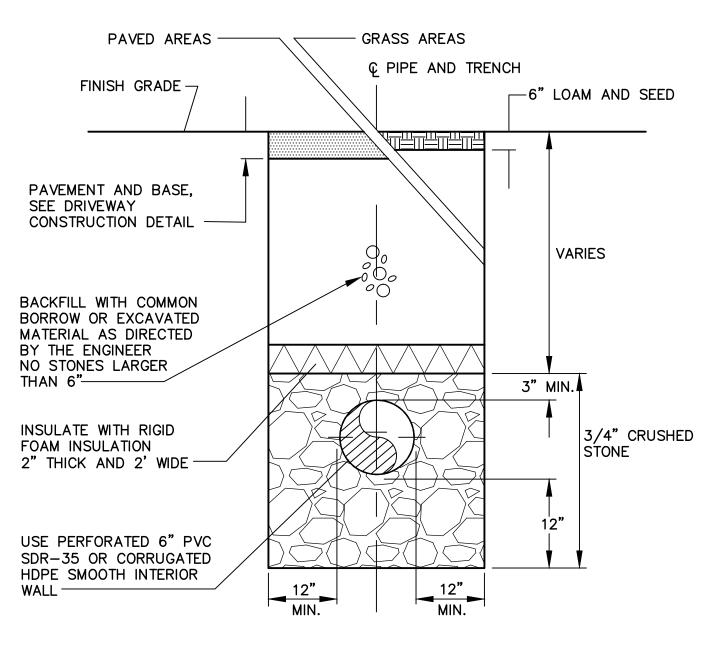
SECTION A-A

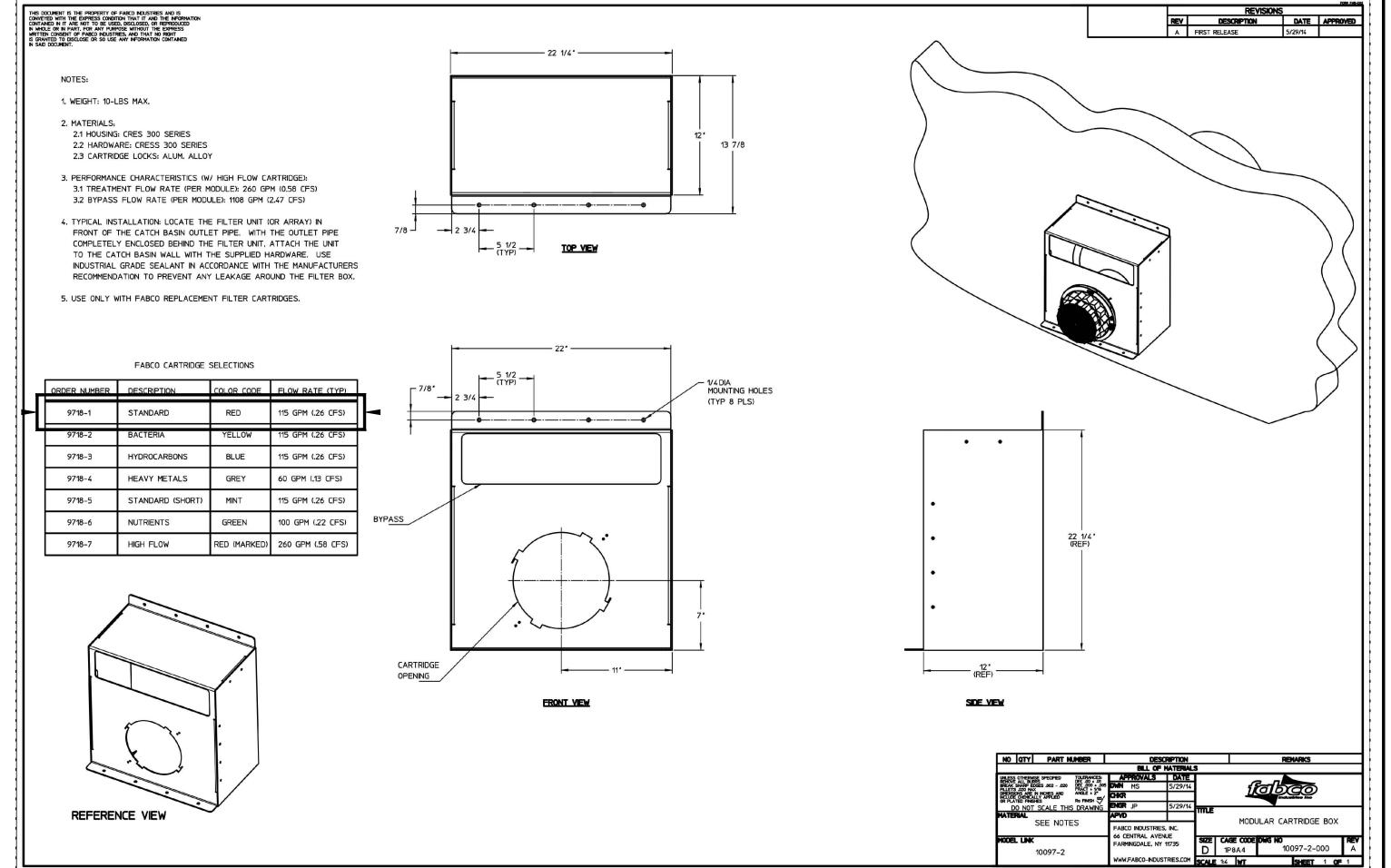
- * SEE PLANS FOR SHAPE/SIZE OF ENERGY DISSAPAROTRS ** RIP RAP SHALL COSSIST OF ROUND NATURAL STONE SUCH AS RIVER ROCK
 - ENERGY DISSIPATER (RIVER ROCK) DETAIL NOT TO SCALE

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.

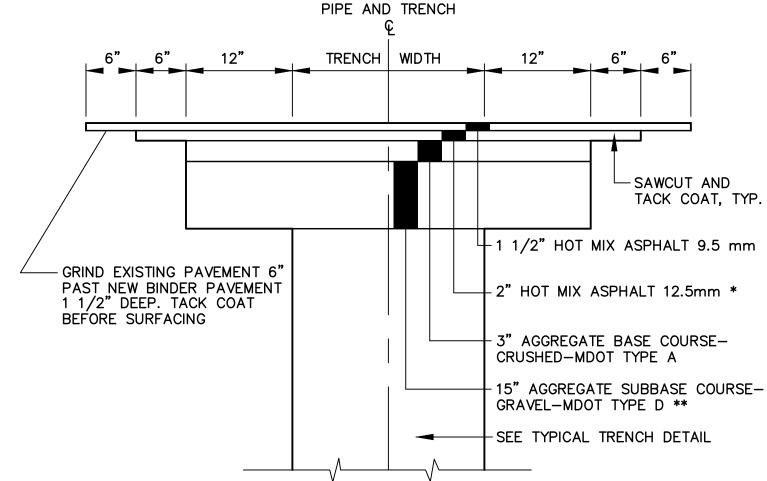
TYPICAL TRENCH REPAIR DETAIL

NOT TO SCALE



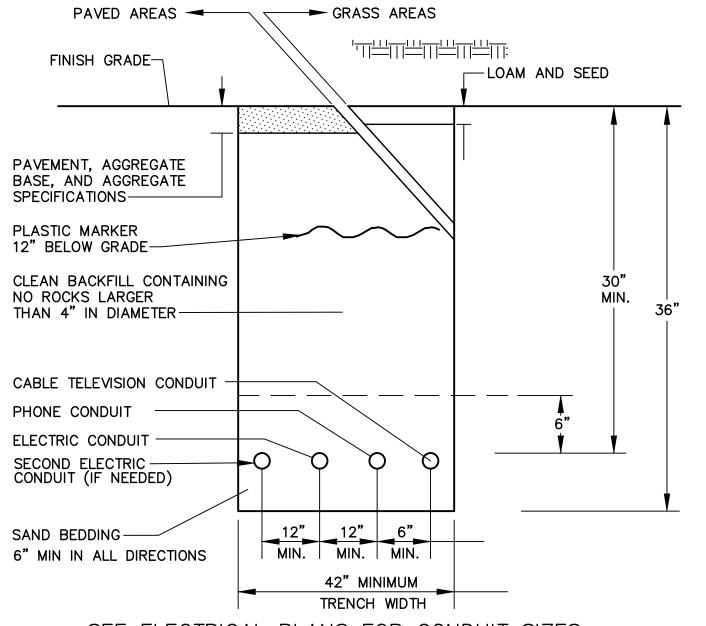


STORWATER FILTER DETAIL NOT TO SCALE



- * 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



SEE ELECTRICAL PLANS FOR CONDUIT SIZES

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



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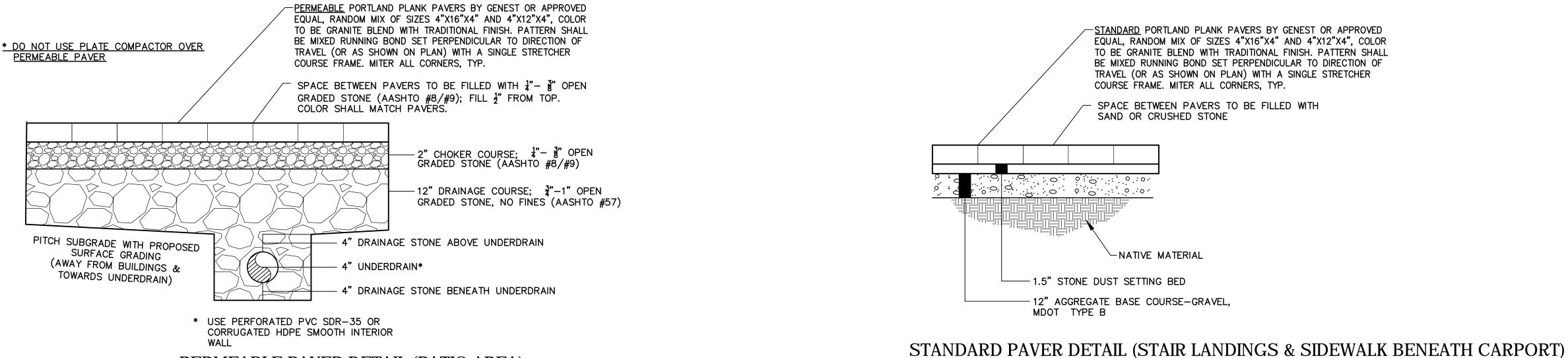


Civil Engineer Ransom Consulting, Inc. 400 Commercial Street, Suite 404 Portland, Maine 04101 207-772-2891



CIVIL DETAILS

С	FOR PERMIT		12-14-16		
В	REVISED PER CIT	9-7-16			
Α	SITE PLAN PERMITTING		6-6-16		
No.	Revision/I	ssue	Date		
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	JIM	SJB			
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PERMEABLE PAVER DETAIL (PATIO AREA) NOT TO SCALE

NOT TO SCALE

DRIVEWAY APRON PARKING AREA PERVIOUS PAVERS, SEE SETION A-A'-- GRADE BREAK 2" RIGID 2% MAX TO FOR 5'
ACROSS CONCRETE
SIDEWALK ALIGNMENT BITUMINOUS DRIVEWAY

APRON ALONG

GRADE PER PLAN INSULATION -2.5' 2% ____ 1" LIP ALONG SEE CONCRETE STREET GUTTER SIDEWALK DETAIL (NOTE THICKER SECTION) BITUMINOUS DRIVEWAY PAVEMENT AND BASE. MIRAFI 140N NON-WOVEN SEE DETAIL-GEOTEXTILE FABRIC OR EQUAL ON SIDES ONLY — 1" GRADING "C" 12.5mm SURFACE 6" UNDERDRAIN FOR ROOF — 2" GRADING "B" DRAIN COLLECTION SYSTEM 19mm BINDER DAYLIGHTS TO RAIN GARDEN 6" INV EL: 49.0 - 12" AGGREGATE BASE COURSE 6" UNDERDRAIN FOR RAIN GARDEN AND PERVIOUS PAVERS 6" INV EL: 46.25 — 18" COARSE GRAVEL MEETING MDOT 703.22, UNDERDRAIN TYPE B BACKFILL MATERIAL <5% FINES

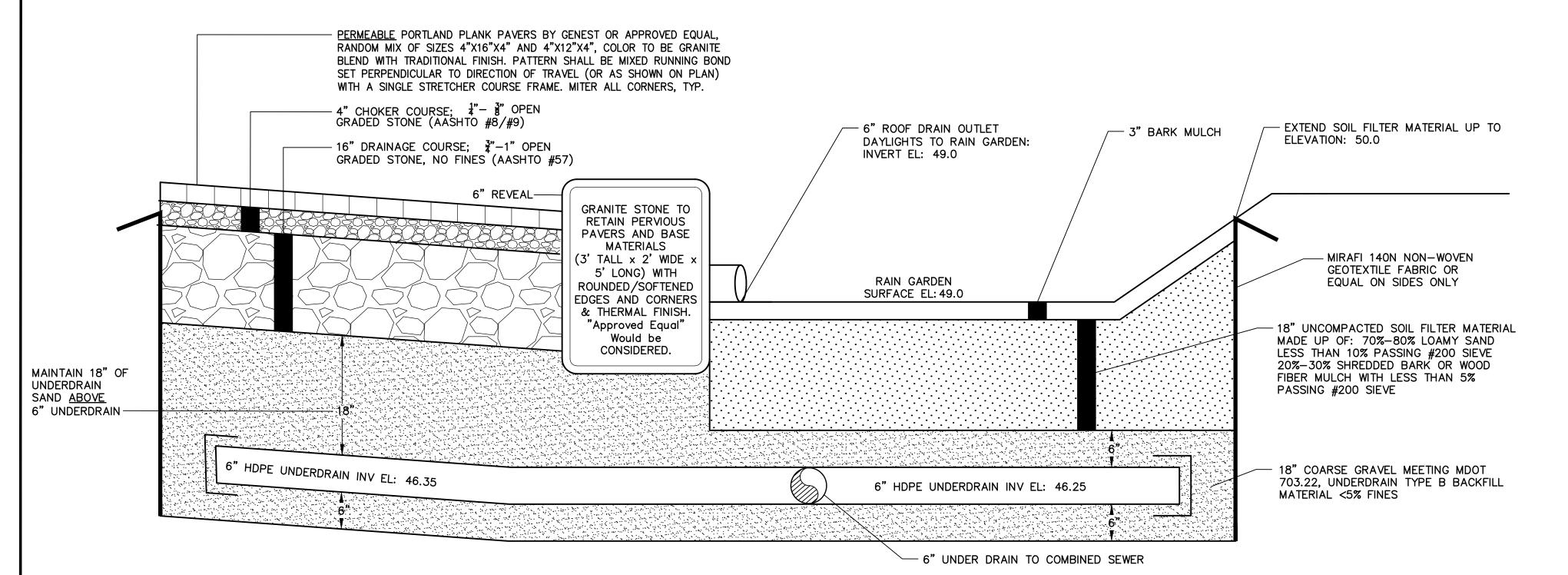
- 2% MAXIMUM CROSS SLOPE ON SIDEWALK (1.5% MIN) — 4" LOAM SEED, MULCH AS DIRECTED - 6 X 6 - W2.0 X W2.0 WELDED WIRE REINFORCEMENT BY CITY ENGINEER — 10" AGGREGATE BASE, CRUSHED, TYPE "B" GRAVEL (12" ACCROSS DRIVEWAY) - 4" REINFORCED CONCRETE, 4000 PSI MIN. (6" ACCROSS DRIVEWAY) ESPLANADE: 4" LOAM, SEED & MULCH -MATCH EXISTING REVEAL FINISHED STREET GRADE GRANITE CURB (TYP.) —

WIDTH VARIES

5' MINIMUM

WIDTH VARIES

SECTION B-B' - DRIVEWAY ENTRANCE REINFORCED CONCRETE SIDEWALK



SECTION A-A' - RAIN GARDEN AND DRIVEWAY PERVIOUS PAVERS

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Consulting, Inc.



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-INSTALL VAPOR BARRIER BENEATH PERVIOUS PAVERS ON NORTH SIDE OF BUILDING (SEE PLAN FOR EXTENTS). EXTEND IMPERMEABLE BARRIER TO OVERLAP 1' ONTO UNDISTURBED SUBGRADE AND PITCH AWAY FROM BUILDING AT 10%. THE DESIGN INTENT IS TO DIRECT STORMWATER AWAY FROM FOOTING DRAINS WHICH WILL NEED TO BE PUMPED. PERVIOUS PAVERS FOUNDATION BACKFILL UNDISTURBED SUBGRADE SEE ARCHITECTURAL PLANS -4" HDPE UNDERDRAIN INVERT ELEVATION TO MATCH BOTTOM OF FOOTING ELEVATION - ¾" CRUSHED STONE - WRAP CRUSHED STONE IN MIRAFI 140N NON-WOVEN GEOTEXTILE FABRIC OR EQUAL

FOOTING DRAIN DETAIL

SUMP PUMP DISCHARGE PIPED INTERNALLY TO 6" GRAVITY

ACCESS PANELS SHALL BE 34" PRESSURE TREATED PLYWOOD OR

OTHER MATERIAL IMPERVIOUS TO

6" FOUNDATION

DRAIN OUTLET

WET CONDITIONS. PROVIDE LIFT

HANDLES OR HOLES -

TOP OF BASEMENT

SLAB: 43.63 —

6" FOUNDATION

DRAIN OUTLET

INVERT: 40.13 -

 $P: \colon{2}{C} P: \colon{2}$

ELEVATION VIEW

ROOF DRAIN-

POWER SUPPLY -

ELECTRIC

NOT TO SCALE

6" FOUNDATION

DRAIN INVERT TO

MATCH BOTTOM OF

FOOTING: 42.13——/

-LOOPS FOR INSERTING REBAR (FOR LIFTING AND REMOVAL) **EXPANSION** RESTRAINT -INSTALL SILT SACK UNDER GRATE SILT SACK BY ACF ENVIRONMENTAL OR -CATCH BASIN APPROVED **EQUIVALENT-**

1. INSTALL SILTSACK PER MANUFACTURER'S RECOMMENDATIONS.

- SILTSACKS SHALL BE CHECKED FOR SEDIMENT LEVEL AND OVERALL CONDITION IMMEDIATELY AFTER EVERY RAIN EVENT AND AT LEAST EVERY DAY DURING PROLONGED RAINFALL..
- SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE SILTSACK. REMOVED SEDIMENT SHALL BE DEPOSITED

ALSO CONNECT INTERNAL

SEE ARCHITECTURAL PLANS

PUMP OUTLETS

DISCHARGE PIPE-

GATE VALVE FOR EACH PUMP -

8" WIDE SLOT TO

FOUNDATION BASE -

HYDRAULICALLY CONNECT

SUMP TO CRUSHED STONE

AND SINGLE

CONNECT TO HEADER

FOUNDATION DRAIN (IF PROPOSED) TO SUMP

CHECK VALVE FOR

EACH PUMP

- WRAP CRUSHED STONE IN

MIRAFI 140N NON-WOVEN

SEE CONCRETE SLAB

SPECIFICATIONS FOR

IS FREE TO PROPOSE

SUMP ENCLOSURE.

THICKNESS AND MATERIAL

REQUIREMENTS. CONTRACTOR

ALTERNATIVE MATERIAL FOR

GEOTEXTILE FABRIC OR EQUAL

- IN A SUITABLE AREA AND IN SUCH A MANNER THAT WILL NOT ERODE. 4. SEDIMENT SHALL ONLY BE REMOVED BY REMOVING THE SILTSACKS FROM THE CATCH BASINS ACCORDING TO MANUFACTURER RECOMMENDATIONS.
- CARE SHALL BE TAKEN TO AVOID SPILLING SEDIMENT WHILE REMOVING THE
- 7. ANY DAMAGED SILTSACK SHALL BE REPLACED WITH A NEW SILTSACK.

INLET PROTECTION - SILT SACK

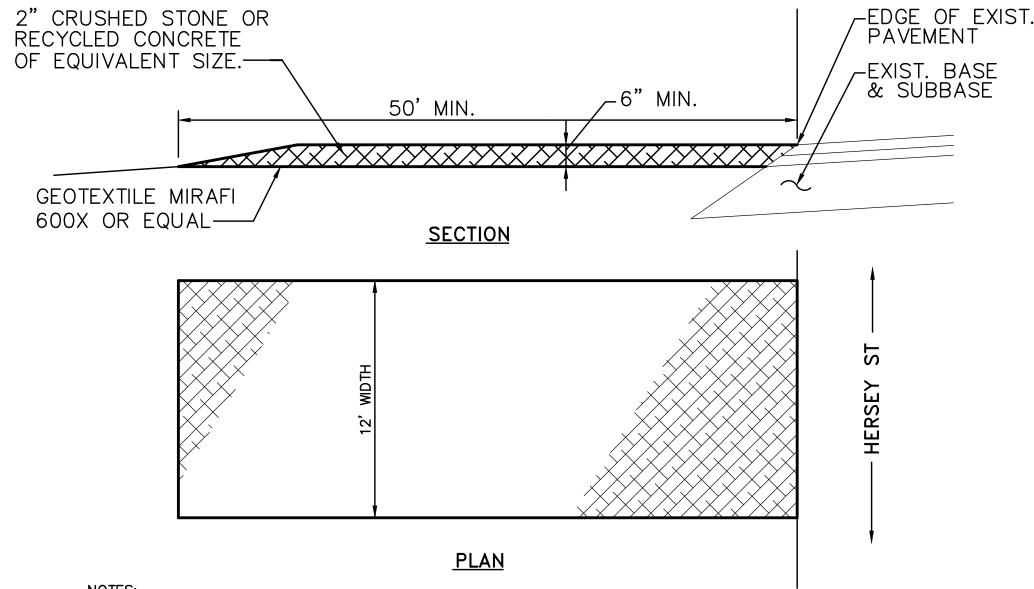
CONCRETE SHELF FOR

PUMPS EL: 40.13

TO SUMP (8" WIDE SLOT)

HYDRAULICALLY CONNECTED

CRUSHED STONE

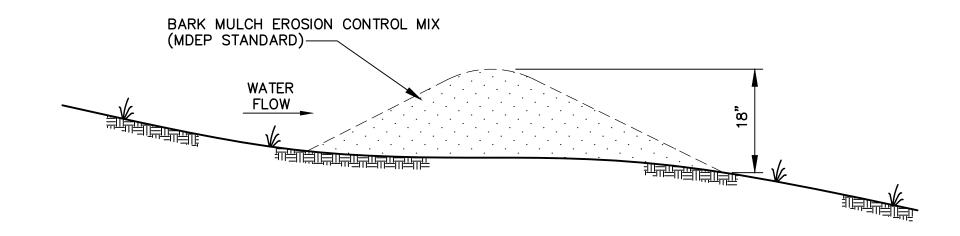


NOTES:

- 1. MAINTAIN ENTRANCE IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. IF WASHING IS REQUIRED PREVENT SEDIMENT FROM ENTERING WATERWAYS, DITCHES OR STORM DRAINS.
- 2. REMOVE STABILIZED CONSTRUCTION ENTRANCE TO FINISH ROAD CONSTRUCTION & PAVEMENT.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



MULCH BERM DETAIL

- INSTALL 2 COMMERCIAL GRADE SUMP PUMPS. ONE WORKING PUMP AND ONE BACKUP PUMP
- EACH PUMP SHALL HAVE AN INDIVIDUALLY CAPACITY OF 40 GALLONS PER MINUTE WITH 15' OF HEAD.
- EACH PUMP SHALL BE ACTIVATED BY A SEPARATE FLOAT SWITCH.
- THE BACKUP PUMP SHALL BE ACTIVATED AT A WATER ELEVATION APPROXIMATELY 3" HIGHER THAN THE ELEVATION THAT THE WORKING PUMP IS ACTIVATED.
- A HIGH WATER ALARM SHALL BE ACTIVATED WHEN THE BACKUP PUMP IS ACTIVATED - OR - WHEN THE WATER ELEVATION REACHES AN ELEVATION OF 41.63
- THE BACKUP PUMP SHALL BE ACTIVATED ("EXERCISED") ON A MONTHLY BASIS.
- THE BACK UP PUMP AND THE WORKING PUMP SHALL BE SWITCHED ANNUALLY TO ENSURE EVEN WEAR.

DIMENSIONS OF SUMP SHALL BE BASED ON SIZE OF SELECTED PUMP PLUS REQUIRED CLEARANCE (APPROXIMATELY 2' X 3.5' PLUMBING CONTRACTOR TO VERIFY)

PLAN VIEW

FOUNDATION DRAIN SUMP DETAIL (SCHEMATIC DESIGN) NOT TO SCALE

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No.	Revision/Issue		Date
Design	n by:	Checked by:	
	JIM	SJ	В
Drawn by:		Approved by:	
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Project:			
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