

**ZONE D**  
LOW FLOW DISCHARGE D 0.1  
INV 7.4 FLARED END WITH BAR RACK

**ZONE D**  
4 STORMTREAT UNITS REQUIRED FOR THIS PHASE (5 FUTURE STORMTREAT UNITS MAY BE REQUIRED IN THE SUBSEQUENT PHASES FOR A TOTAL OF 9 STORMTREATS IN ZONE D)

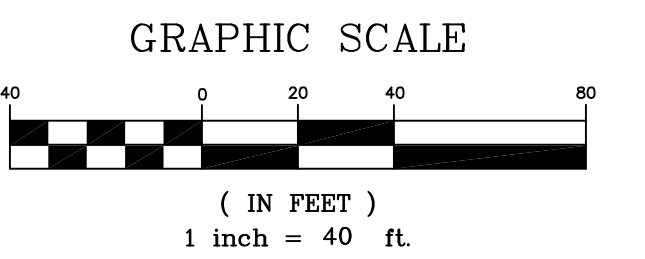
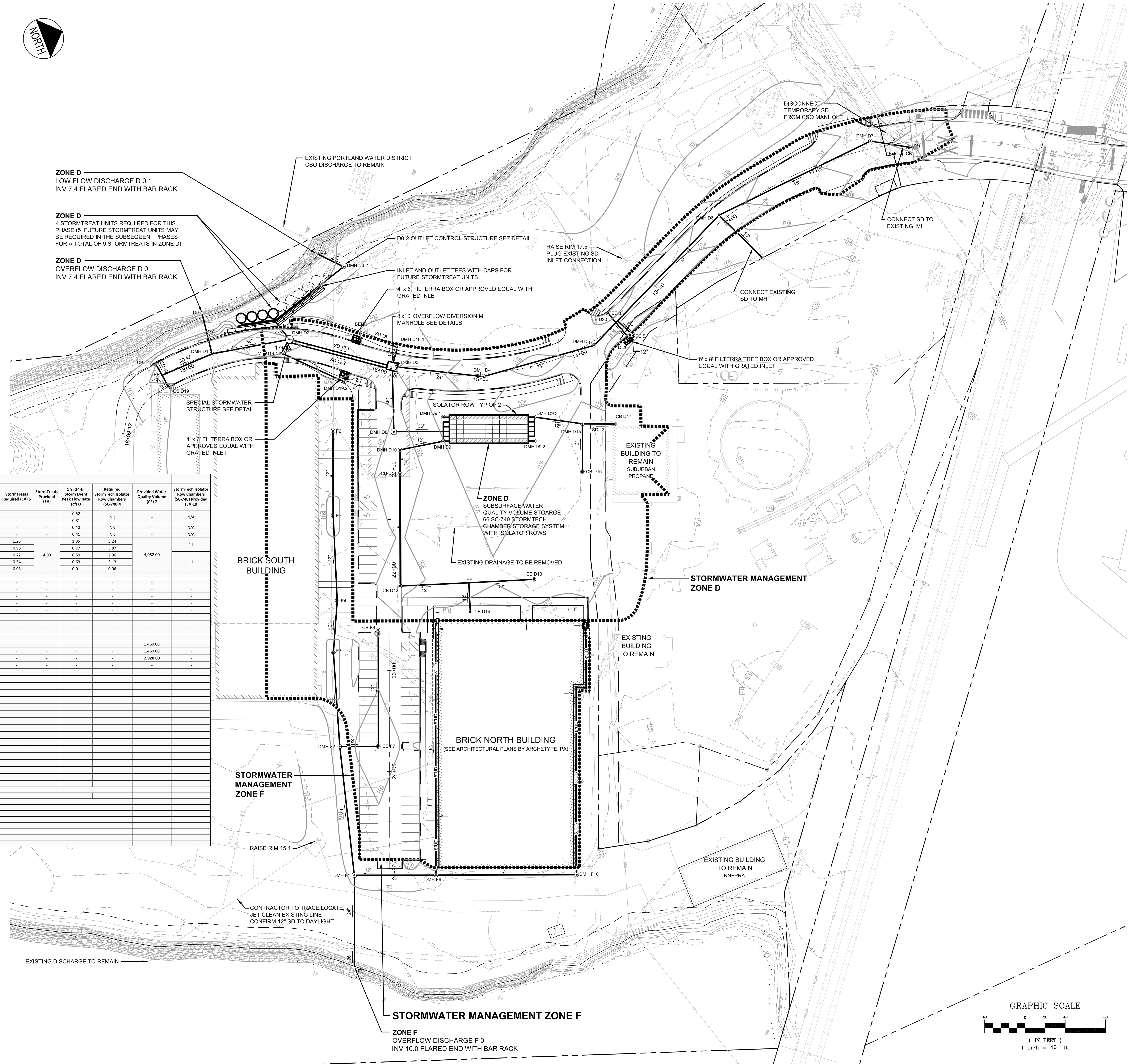
**ZONE D**  
OVERFLOW DISCHARGE D 0  
INV 7.4 FLARED END WITH BAR RACK

Summary of Water Quality Treatment															
Zone	Inlet ID	Impervious Area (sf)	Pervious Area (sf)	Total Area (sf)	Total Area (Acres) 1	Required Water Quality Volume (ft <sup>3</sup> ) 2	Existing Mitigation Credits (sf) 3	Treatment Approach 4	Filter Size Required	StormTreats Required (EA) 5	StormTreats Provided (EA)	1 yr 24-hr Storm Event Peak Flow Rate (cfs) 6	Required StormTech Isolator Row Chambers (SC-740) 7	Provided Water Quality Volume (ft <sup>3</sup> ) 8	StormTech Isolator Row Chambers (SC-740) Provided (EA) 9
Zone D	D-21	8,280.00	772.00	9,052.00	0.21	715.73	-	Filterra	-	-	-	0.52	-	-	-
	D-20	12,537.00	3,661.00	16,198.00	0.37	1,105.12	-	Filterra	6" V8	-	-	0.81	NR	-	N/A
	D-18	5,763.00	3,841.00	9,604.00	0.22	608.28	-	Filterra	4" V6	-	-	0.40	NR	-	N/A
	D-19	6,430.00	1,673.00	8,103.00	0.19	591.60	-	Filterra	4" V6	-	-	0.41	NR	-	N/A
	D-11	16,740.00	1,948.00	18,688.00	0.43	1,459.93	-	Storm Treats	-	-	-	1.06	5.24	-	11
	D-16	12,144.00	2,596.00	14,740.00	0.34	1,098.53	-	Storm Treats	-	-	-	0.95	3.87	-	-
	D-12	9,443.00	1,212.00	10,655.00	0.24	827.32	-	Storm Treats	-	-	-	0.72	2.96	-	-
	D-13	7,020.00	1,161.00	8,181.00	0.19	623.79	-	Storm Treats	-	-	-	0.54	2.13	-	11
	D-14	0.00	921.00	921.00	0.02	30.70	-	Storm Treats	-	-	-	0.03	0.01	0.06	-
	D-15	4,445.00	5,559.00	10,004.00	0.23	-	-	-	-	-	-	-	-	-	-
<b>Zone D Totals</b>		<b>82,782.00</b>	<b>23,344.00</b>	<b>106,126.00</b>	<b>2.44</b>	<b>7,120.92</b>	-	-	-	-	-	-	-	-	-
Zone F Developed Area	F-8	2,515.00	808.00	3,323.00	0.08	236.52	-	None	-	-	-	-	-	-	-
	F-7	13,385.00	3,942.00	17,327.00	0.40	1,246.82	-	None	-	-	-	-	-	-	-
	F-3	186.00	3,362.00	3,548.00	0.08	127.57	-	None	-	-	-	-	-	-	-
	F-4	256.00	783.00	1,039.00	0.02	47.43	-	None	-	-	-	-	-	-	-
	F-5	256.00	3,875.00	4,131.00	0.09	150.50	-	None	-	-	-	-	-	-	-
	F-6	348.00	1,754.00	2,102.00	0.05	87.47	-	None	-	-	-	-	-	-	-
<b>Zone F Developed Area Subtotals</b>		<b>16,946.00</b>	<b>14,524.00</b>	<b>31,470.00</b>	<b>0.72</b>	<b>1,896.30</b>	-	-	-	-	-	-	-	-	-
Zone F Existing Buildings	BNB-North Side	17,000.00	0.00	17,000.00	0.39	1,416.67	10,200.00	Storm Drip Edge	-	-	-	-	-	1,460.00	-
	BNB-South Side	17,000.00	0.00	17,000.00	0.39	1,416.67	10,200.00	Storm Drip Edge	-	-	-	-	-	1,460.00	-
<b>Zone F Existing Buildings Subtotal</b>		<b>34,000.00</b>	<b>0.00</b>	<b>34,000.00</b>	<b>0.78</b>	<b>2,833.33</b>	<b>20,400.00</b>	-	-	-	-	-	-	<b>2,920.00</b>	-
<b>Zone F Totals</b>		<b>50,946.00</b>	<b>14,524.00</b>	<b>65,470.00</b>	<b>1.50</b>	<b>4,729.63</b>	<b>20,400.00</b>	-	-	-	-	-	-	-	-
<b>Developed Area Breakdown</b>															
<b>A.) Total New Developed Area Treated (SF)</b>		96,122.00		<b>Treatment Breakdown</b>		<b>Required</b>		<b>Provided</b>							
<b>B.) Total New Developed Area Untreated (SF)</b>		41,474.00		<b>% of Net Developed Area Treated = F/C</b>		80.00%		84.68%							
<b>C.) Total New Developed Area (SF) = A+B</b>		137,596.00		<b>% of Net Impervious Area Treated = L/I</b>		95.00%		99.01%							
<b>D.) Existing Developed Area Treated (SF)</b>		34,000.00													
<b>E.) Adjusted Existing Developed Area Treated (SF)</b>		29,400.00													
<b>F.) Total Net Developed Area Treated (SF) = A+E</b>		116,522.00													
<b>Impervious Area Breakdown</b>															
<b>G.) Total New Impervious Area Treated (SF)</b>		78,337.00													
<b>H.) Total New Impervious Area Untreated (SF)</b>		21,391.00													
<b>I.) Total New Impervious Area (SF) = G+H</b>		99,728.00													
<b>J.) Existing Impervious Area Treated (SF)</b>		34,000.00													
<b>K.) Adjusted Existing Impervious Area Treated (SF)</b>		29,400.00													
<b>L.) Total Net Impervious Area Treated (SF) = G+K</b>		107,737.00													

**NOTES AND ASSUMPTIONS:**

- All areas are based on the 2010 Portland General Land Use Map.
- The impervious area is based on the 2010 Portland General Land Use Map. The pervious area is based on the 2010 Portland General Land Use Map. The total area is based on the 2010 Portland General Land Use Map.
- The 1-year peak flow rates have been computed using the rational method. The rainfall intensity is based on the 2010 Portland General Land Use Map.
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- NOTES:**
- THIS PROJECT IS THE FIRST PHASE OF A LARGE MULTI PHASED PROJECT SUBJECT TO A MAINE DEP SITE LOCATION OF DEVELOPMENT PERMIT, MEDEP NATURAL RESOURCE PROTECTION AGENCY (NRPA) PERMIT ARMY CORPS OF ENGINEERS (ACEE) AND (VRAP). THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS OF APPROVAL STATED IN THESE PERMITS. THE SUMMARY TABLE ABOVE SHOW HOW THIS PHASE MEETS THE CITY OF PORTLAND'S SECTION 5 - STORMWATER MANAGEMENT REGULATIONS.
  - REFER TO THE STORMWATER MANAGEMENT OPERATION AND MAINTENANCE MANUAL PREPARED FOR THIS PROJECT FOR ALL MAINTENANCE PROCEDURES AND FREQUENCIES.



PRELIMINARY - NOT FOR CONSTRUCTION

		PROJECT: BRICK NORTH BUILDING AT THE FOREFRONT AT THOMPSON'S POINT SHEET TITLE: STAND ALONE BRICK NORTH STORMWATER MANAGEMENT PLAN CLIENT: FOREFRONT PARTNERS   LP	
2 07.29.14 REVISED PHASE 1A SITE PLAN SUBMITTED TO CITY 1 06.30.14 AMENDED PHASE 1A SITE PLAN SUBMITTED TO CITY	REVISIONS	P.E. BO KENNEDY LIC. #11984	DRAWN: DEB DATE: JUNE 2014 DESIGNED: BEK SCALE: 1" = 40' CHECKED: SRB JOB NO.: 2982.05 FILE NAME: 2982.05-BN GRADING SHEET: C-5.1