		т								TREEP		FRIOCATIONI	<b>D</b>						TREE BOX E					
	Description	Rim	Inlet Apron at Gutter	Invert In Elev.	Invert C Elev.	Out Top of Storage Elev.	Bottom of Storage Elev.	Ground Surface (Range in Elevation)	ow Description	Rim	Inlet Apron a Gutter	at Elev.	Inver	rt Out lev. Elev.	Bottom o Storage Elev.	f Ground Surface (Range in Elevation)	Overflow Weir Elevation	Description	Rim Apro	t n Invert Elev.	In Invert Out Elev	A Top of Storage Elev. Bottom of Storage Elev. Elev. Elev.	ound face ge in ation	
0-0	4' x 6' sq. Tree Box Filter Sta. 6+99; 17.32+' Right	11.1	10.27		7.60 (O	-3)			P-0 4' x 6' Tree Box Filter Sta. 7+00.5+; 17.50' Left	11.25	10.41		7.	.75				Q-0 Filterra <sup>®</sup> Sta. 5+23; 17' Left	1.29 10.4	5	7.79 (Q-1	2)		
0-1	4'-0" Connector Manhole Station 7+27; 11.00'	10.78		7.37 (6" RD)	2) <u>4.75+ (\</u>	/-2)			4'-0" Overflow Catch Basin Sta. 7+09.5; 11.16'           P-1         Left	10.65			6.	.50				4'-0" Overflow Catch Basin Sta. 5+31.5;           Q-1           11.16' Left	10.66		6.53 (Q-	2)		
					4.96				P-2 4'-0" dia. Junction Manhole Sta. 7.09; 28' Left	11.43		7.53 (P-0 6.42 (P-1	) ) 6.	.32				4'-0" dia. Junction Manhole Sta. 5+31.5;           Q-2         26' Left	11.87	6.42 (12 7.66 (4	2") 6.32 TC ") STORAG	) E		
0-2	6'-0" Overflow Catch Basin with Overflow Weir set Elev. 8.20 Sta. 7+15; 11.00' Right	10.48			(dischai after we	ge eir) 2")			4' x 6' Outlet Control Manhole Sta. 6+72.5; 26.5 P-3 Left	5' 11.46 11.40		5.50 (4" U 5.9 (12")	D) 5.	.44			8.00	4' x 6' Outlet Control Manhole Sta.12Q-34+98.5; 27' Left	1.82 to 11.88	6.20 (12 5.70 (4	2") ") 5.70 (Q-	4)	8.20	
				7.35 (0-0)	0.40 (1	- /			Underground Storage Sta. 6+75 to 6+99; 26.5' to 29.5 Left	5'				8.00	6.00	11.84 to 11.90		Q-4 4'-0" Dia. Manhole	LO.90	5.49 (Q	-3) 3.45 +/	- 11.9	92 to	
0-3	4'-0" dia. Junction Manhole Sta. 7+06.31; 22.79' Right	10.80		6.50 (4" from w drain adjacent t Noyes Building	to g)	-4)			New Storm Drain	Pipe Diameter (in.)	Length (ft)	n Slope (ft/ft)	Gra Diffe (f	ade erence ft)		Notes		Underground Storage Sta. 5+25 to 5+01; 25.5 to 28       New Storm Drain	Pipe ameter (ft)	th Slope	-2) (Q-3) Grade Differen	8.20 6.20 11	.86	
				6.30 (O-2)					P-0 to P-2	4	15	0.009	0.	.13				0.045.0.2	(in.) (in.)		e (ft)			
0-4	4' x 6' Outlet Control Manhole Sta. 6+67; 22.00 Right	11.12 11.18		6.25 (O-2) (O-3)	6.20 T	O   GE		8.20	P-1 to P-2 P-2 to Underground Storage	12	13	0.005	0.	.08				Q-0 to Q-2	4 8 12 11	0.016	0.130			
0.5	4' x 6' Outlet Control Manhole Station 6+65; 20'	11.21 to		6.2 (12")	5 60 (0	-6)			P-3 to 0-6	12	29	0.005	0.	.15				Q-2 to Storage	12 11 12 6	0.0100	0.060			
0-5	right	11.25		5.7 (4" UD)	0,000	-0)						0.000	0.	.15				Q-3 to Q-4	12 18	0.0100	0.180			
0-6	New 4'-0" dia Manhole Sta 6+67: 12' Right	10.88		5.27 (O-7) 5 54 (O-5)	5 22 (0	-1)			1 4" underdrain from underground storage to co	onnect to downs	stream sid	de of P-4.						NOTES:		I	I			
		10.00		(P-4)	5.22 (0	-,			2 Form area of underground storage prior to pou	uring lightweight	t concrete	e.						1 4" underdrain from underground storage to	connect to dov	wnstream sid	le of Q-3.			
0-7	4'-0" Diameter Manhole Sta. 6+36: 15' Right	10.87		5.45 (B-5)	5.40 (0	-6)			3 Install 4" PVC Backwater Valve in P-4 on discha	Install 4" PVC Backwater Valve in P-4 on discharge from 4" underdrain.						2 Underground storage is within lightweight concrete. Special provisions apply.								
		10.07		(0-8)											3 Install PVC backwater valves in discharge from underdrains.									
0-8	4'-0" Diameter Manhole									TREE BOX I	FILTER LO	DCATION R				1		4 Centerline grade at bottom of excavation for	concrete Sta.	5+00 = Elev.	2.50+; Sta. 5+	50 = Elev. 2.87+.		
0-9	4'-0" Diameter Catch Basin			RD	(O-1)						Inlet Apron	Invert In	Invert	Top of Bo	ottom Gr Su	ound rface Overf	ow	5 4" Underdrain from Filterra <sup>®</sup> to connect to C	<u>l</u> -2.					
0-10	4'-0" Diameter Catch Basin			(0-11)	(0-1)				Description	Rim	at	Elev.	Out Elev.	. Storage St Elev. St		nge in we vation   Eleva	r ion		TREE BC	DX FILTER LO	CATION S			
0-11	4'-0" Diameter Catch Basin				(0-10	)					Gutter				LIEV.	)				Inlet		Top of Bottor	n Ground Over	cflow
0-12	2'-0" Square Catch Basin				(0-1)			11.101										Description	Rim	Apron at	Invert In   Inv Elev.	Vert Out Storage of Elev. Storage Storage	e (Range in	eir
Unde	erground storage Sta. 6+94 to 7.18; 20' to 23' Right	Pine			Gradu	8.20	6.20	11.40 to 11.20	R-0 4' x 6' Filterra <sup>®</sup> Sta. 3+10; 21.5' Right	9.75	8.91	(	5.25 (R-2)	)						Gutter		Elev. Elev.	Elevation)	ition
	New Storm Drain	Diameter (in.)	Length (ft)	Slope (ft/ft)	Differer (ft)	ice	No	tes	R-1 4'-0" Overflow Catch Basin Sta. 3+00; 18.16' Righ	ht 8.77		[	5.83 (R-2)	)				4'-0" dia. Overflow Catch Basin Sta. 2+70; S-2 11.16' Left	9.53	8.69	5.	07 (S-3)		
0-01	to O-3	4	7	0.0362	0.25							5.66 (R-0)						4'-0" square Junction Manhole Sta. 2+88; 29.	5'		4.9 (12") 4	.53 TO		
0-21	to O-3	12	5	0.0100	0.05				R-2 New Manhole Sta. 3+20; 23' Right	10.18		4.70 (R-2)	4.58					S-3 Left	11.85		5.93 (4") ST	ORAGE		
0-31		12	6	0.0050	0.03							4.0 (4") 5.02 (4"							11.86		4.47 (12")			
0-61	to 0-1	12	68	0.0100	0.00				4' x 6' Outlet Control Structure Sta. 3+57.50; 22.	.50' 10.21		UD)*						S-4 4' x 6' Control Manhole Sta. 3+17; 30.50' Left	11.92		3.97 (4")	3.97	6.4	47
0-71	to O-6	12	32	0.0100	0.32					10.13		4.5 (12)	5.57 (N-3)	/		6.5	)	S-5 =R5 Sta. 3+24; 9' Right	9.91		3.8 (S-4)	3.70		
B-5 t	o O-7	12	31			Set slope i	in field.											S-6						
0-11	to V-2				0.00				 B_4 New replacing 4'-0" dia, Manhole	0 01		3.80 (R-4)	3 70					S-7 New Manhole (City)					12.00 to	
RD to	o O-8 to O-1	12	10		0.00	Set slope i	in field.		R-5 4'-0" dia. Catch Basin	9.94		5.00 (12 )	5.70					Underground Storage 2+90.5 to 3+14.5; 29' to 32' Le	eft Pine			6.47 4.47	12.00 to 11.80	
0-10	to 0-1				0.00				R-6 4'-0" dia. Catch Basin									New Storm Drain	Diameter (in.)	Length (ft)	Slope (ft/ft)	fference (ft)	Notes	
0-11	to 0-10				0.00				Underground Storage Sta. 2+20 to 2+E4+20' to 22' pi	ght					9.	70 to		S-0 to S-3	6	12	0.0080	0.10		
ΝΟΤ	ES:	I								Dino		+ +	Grade	0.50 4	4.50   10	0.40		S-2 to S-3	12	24	0.0050	0.120		
1	4" underdrain from underground storage to conne	ect to down	stream side	of O-5; 4" underdr	rain from Fil	terra <sup>®</sup> to conne	ect to O-3.		New Storm Drain	Diameter	Length (ft)	Slope	Differenc		Notes			S-4 to S-5	12	15	0.0050	0.08		
2	From area of underground storage prior to pouring	g lightweigl	ht concrete.							(in.)	(10)		e (ft)					S-6 to S-5	12	63				
3	Install 4" PVC Backwater Valves in O-3 on discharg	e from 4" t	ree box unde	erdrain and O-5 on	n discharge f	rom undergrou	ind storage.		R-0 to R-2	4	6	0.1176	0.71					S-5 to S-7	12	79				
4	Relocate water service to clear tree box filter.								R-1 to R-2	12	14	0.0100	0.14					NOTES:			-66.4			
5	Centerline grade at bottom of excavation for conc	rete Statior	n 6+25 = Elev	v. 3.36; Station 7+2	25 = Elev. 5.1	.3.			R-2 to Underground Storage	12	2	0.0200	0.04					1 4" underdrain from below storage is to conn	ect to the dow	nstream face	Of S-4.	auticad		
									R-3 to R-4	12	63	0.0050	0.32					2 Underground storage will project through the		rdrains	ovisions are re	equirea.		
									R-5 to R-3	6	3	0.0100	0.03					3 Install PVC Backwater valves in S-4 on discha		$\frac{1}{2+75} = 500$	5 70+· Sta 2+2	$P_{5} = Eloy + 26 \pm$		
									K-6 to K-1	Noves Building			0.00					4 <u>Centernine grade at bottom of excavation for</u>		2+75 - Elev. 3	5.70+, 3ld. 5+2	<u>- Elev. 4.30+.</u>		
																		5 4 underdrain from Filterra® to connect to S-	3.					
									NOTES:															
									1 Underdrain from underground storage to conne	ect to downstrea	am side of	f R-3.												
									2 Underground storage will project through the bo	ottom of lightwe	eight fill.	Special provis	ions requ	uired.										
									3 Install PVC Backwater Valves in R-3 on discharge	e from underdra	ins.													
									4 Install the 4" underdrain from the tree box filter	r to R-2.														
									5 Centerline grade at bottom of excavation for con	ncrete Station 3	8+25 = Elev	ev. 5.70+; Statio	on 2+75 =	= 4.36+.										
									6 R-4 will be installed on existing 12" storm drain;	test pit required	d to verify	y invert elevat	ion.											ſ
																		rkupujed ji ukm ukain sysiem shall BE (	JUNSIKUCT			THE CITY OF PORTLA	ND TECHNICAL	1

## PRELIMINARY - NOT FOR CONSTRUCTION

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DARDS USING ONE OF THE FOLLOWING PIPE MATERIALS:

REINFORCED CONCRETE PIPE (RCP) WITH A MINIMUM STRENGTH OF CLASS III PVC RING TYPE SEWER PIPE (SDR 35 OR EQUIVALENT, MINIMUM PS-46 RATING
P.V.C. RING TYPE SEWER PIPE MEETING ASTM F 789 OR EQUAL TO SDR 35 DUCTILE IRON PIPE (DIP)

ADS N-12 HP TRIPLE-WALL PIPE MEETING A MINIMUM PS-46
ADS SANITITE HP MEETING A MINIMUM PS-46

ALL JOINTS SHALL BE WATERTIGHT (SILT TIGHT JOINTS ARE NOT PERMITTED. CONTRACTORS SHALL REFER TO THE TECHNICAL SPECIFICATIONS FOR THE PROJECT FOR ADDITIONAL INFORMATION INCLUDING ANY SPECIAL PIPE CLASSES.

ANY PIPELINE WITH LESS THAN 2 FEET OF COVER SHALL BE DUCTILE IRON PIPE

	TE OF MANN	PROJECT <b>midtown</b> PORTLAND MAINE	,FS]	FAY, SPOFFORD & THORN						
	BUCHEN R	SHEET TITLE	100 YEARS	T 778 MAIN S	778 MAIN ST, SUITE 8, SOUTH PORTLAND, ME 04					
		PROPOSED STORM DRAIN SCHEDULES	DRAWN:	LA	DATE:	OCTOBER 2014				
	CENSE		DESIGNED:	BEK	SCALE:	N.T.S.				
	SONAL SWC	CLIENT	CHECKED:	SRB	JOB NO.	195350127				
			FILE NAME:	3062-GRADE SC	HED					
-	P.E. STEPHEN R. BUSHEY LIC. # 7429	FEDEQ DV001, LLC	SHEET	C-3.13						