NOTES:

1. USE D_{50} NOTED ON TABLE UNLESS OTHERWISE SPECIFIED ON PLANS.
2. UNDERLAY RIP-RAP WITH 6" OF GRAVEL OR GEOTEXTILE
3. USE WIDTHS NOTED ABOVE OR CONFORM TO NATURAL CHANNEL OR TOPOGRAPHY.
4. RIPRAP INLET PROTECTION SHALL BE A CIRCULAR APRON WITH A RADIUS OF 1X THE PIPE DIAMETER.

D	L	W	D_{50}
8"	4'	2'	4"

1 / C4.2 RIP-RAP APRON

NOT TO SCALE

2 / C4.2 UNDERDRAIN CLEANOUT

NOT TO SCALE

NOTES:

1. ALL WORK TO CONFORM TO THE PORTLAND WATER DISTRICT STANDARDS AND REQUIREMENTS.
2. D.I.P. MAY BE USED FOR VALVE BOX EXTENSIONS.
3. VALVE BOX SHOULD NOT CONTACT WATER MAIN OR VALVE.
4. CONCRETE PROTECTOR RING SHALL BE USED IN ALL UNPAVED AREAS.

3 / C4.2 VALVE AND VALVE BOX INSTALLATION DETAIL

NOT TO SCALE

NOTES:
ALL WORK TO CONFORM TO THE PORTLAND WATER DISTRICT STANDARDS AND REQUIREMENTS.

4 / 4.2 STANDARD CORPORATION STOP DETAIL

NOT TO SCALE

THRUST BLOCK PLACEMENT AT TEE(S)

THRUST BLOCK PLACEMENT AT BEND(S)

SIZE REQUIREMENTS FOR CONCRETE THRUST BLOCKS

FITTINGS		BEARING ON UNDISTURBED SOIL (SQUARE FT.)			
		90° BENDS	45° BENDS	TEES & PLUGS	HYDRANTS
PIPE SIZE	4"	2.0	1.0	1.0	N/A
	6"	3.0	2.0	2.0	6.0
	8"	5.0	3.0	4.0	N/A

THRUST BLOCK SCHEDULE

5 / 4.2 THRUST BLOCK DETAILS

NOT TO SCALE

PERMITTING SET

Reviewed for Code Compliance
Inspection Services
Portland, Maine

Date: 09/18/17

WALSH
ENGINEERING ASSOCIATES, INC.
One Karen Dr., Suite 2A | Westbrook, Maine 04092
ph: 207.553.9898 | www.walsh-eng.com

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STATE OF MAINE
SILAS W. CANAVAN
No. 12639
PROFESSIONAL ENGINEER
9/5/17

Spirn and Gulliver Residence
7 Diamond Pass
Peaks Island, Maine

Sam Sprin & Kate Gulliver
61 Chandler Street, Apt. 2
Boston, MA

Rev.	Date	Description	Drawn	Check
1	9/5/17	Revised Per City Comments	SWC	SWC

Sheet Title:
DETAILS

Job No.: 346	Sheet No.:
Date: June 15, 2017	C4.2
Scale: NTS	
Drawn: SWC	
Checked: WRW	

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