



2	RE-ISSUED FOR TENDER	11/09
1	ISSUED FOR TENDER	11/04
		2015

project  
**JETTY WATER LINE REPLACEMENT**  
**BIO, DARTMOUTH NS**

design  
**NEW DOMESTIC WATER LINE PLAN**

designed	D.G.I.
drawn	B.W.S.
checked	essene
approved	D.G.I.

Project Manager	Submission
Project Number	no. du projet
<b>R.078019.001</b>	
drawing no.	no. du dessin
<b>M-102</b>	

### NEW PLUMBING LEGEND

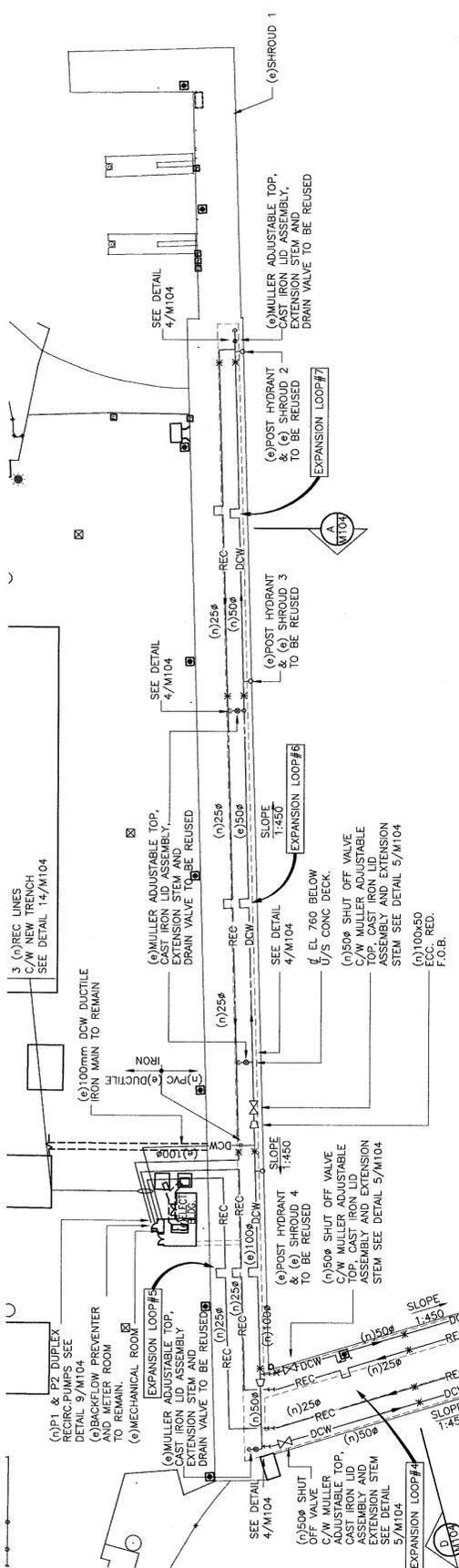
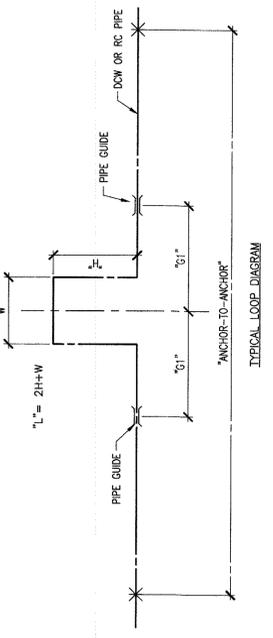
SYMBOL	DESCRIPTION
(e) SHUT OFF VALVE TO BE REUSED	
(e) POST-HYDRANT TO BE REUSED	
(e) PIPE ANCHOR TO BE REUSED	
(e) DCW PIPE DOWN	
(e) DCW PIPE UP	
(e) DCW PIPE REDUCER	
(e) DCW PIPE EXPANSION LOOP	
(e) DCW PIPE	

### LAYOUT NOTES

- THE DESIGN PLANS DO NOT SHOW ALL OF THE EXISTING PIPING, EQUIPMENT OR CONTROLS. WHERE THESE ITEMS ARE NOT SHOWN TO BE REUSED OR REMOVED, UPON CONFIRMATION FROM THE OWNER REPRESENTATIVE THAT SUCH ITEMS ARE REDUNDANT, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE ITEMS.
- ALL MATERIALS NOT SHOWN TO BE REMOVED AND DISPOSED OF SHALL BE MAINTAINED THROUGHOUT THE COURSE OF WORK. ANY DAMAGES TO EXISTING FLOORS, ROOFS OR WALLS SHALL BE REPAIRED BY THE MECHANICAL CONTRACTOR TO MATCH THE EXISTING FINISHES. ALL REPAIR WORK SHALL BE COMPLETED BY AN APPROPRIATE TRADES PERSON.
- IT IS ASSUMED THAT ALL EXISTING PIPING, EQUIPMENT AND CONTROLS BEING RETAINED ARE SAFE AND ADEQUATE. SHOULD OTHERWISE QUESTIONABLE MATERIAL, EQUIPMENT OR WORKMANSHIP, THEY SHALL NOTIFY THE DEPARTMENTAL REPRESENTATIVE FOR FURTHER INSTRUCTIONS.
- THE CONTRACTOR SHALL CONFIRM AND DETERMINE EXACT PIPING, EQUIPMENT AND CONTROLS LOCATIONS, SIZES AND ELEVATIONS ON-SITE.
- LOCATE DISTRIBUTION SYSTEMS, EQUIPMENT AND MATERIALS TO PROVIDE MINIMUM INTERFERENCE AND MAXIMUM USEABLE SPACE. ALL ADJUSTMENTS OR RE-ROUTING OF THE NEW DCW SYSTEM SHALL BE MADE TO AVOID EXISTING PIPING AND EQUIPMENT. THE EXPENSE OF THE SERVICE AND REMOVAL OF EQUIPMENT SHALL BE MADE AT THE EXPENSE OF THE RELEVANT CONTRACTOR.
- ALL NEW DOMESTIC COLD WATER (DCW) PIPING TO BE PERFORMED SHALL BE SDR11 HIGH DENSITY POLYETHYLENE (HDPE) PIPE. ALL FITTINGS ARE TO BE SOCKET OR BUTT FUSION WELDED. REFER TO DESIGN SPECIFICATIONS FOR REQUIREMENTS.
- HDPE DCW PIPE TO BE CONNECTED TO EXISTING BRASS SHUT OFF VALVES WITH STANDARD NPT TRANSITION FITTINGS C/W COMPRESSION FITTING FOR HDPE PIPE.
- ALL NEW PIPE HANGERS TO BE AS PER DETAIL 2/M104 C/W SADDLE AND SPACED AT NO MORE THAN 1200mm.
- ALL NEW HDPE DCW PIPE TO BE ELECTRICALLY HEAT TRACED AND INSULATED WITH 50mm NEOPRENE RUBBER FOR PROTECTION. REFER TO DESIGN SPECIFICATIONS FOR REQUIREMENTS.
- PRIOR TO INSTALLING PIPE INSULATION, THE DEPARTMENTAL REPRESENTATIVE SHALL BE NOTIFIED. UPON RECEIVING APPROVAL, THE INSULATION CONTRACTOR SHALL RECEIVE THE DEPARTMENTAL REPRESENTATIVE OFFICIAL APPROVAL IN ORDER TO PROCEED WITH INSTALLING ANY PIPE INSULATION.

### EXPANSION LOOP SCHEDULE

EXPANSION LOOPS	WATER SERVICE PIPE	PIPE APPROX. O.D. (mm)	PIPE LENGTH (ANCHOR-TO-ANCHOR) (m)	TOTAL EXPANSION LENGTH (mm)	LOOP PERIMETER (mm)	W LOOP DIMENSION (mm)	H LOOP DIMENSION (mm)	"G1" GUIDE SPACING (mm)
EXP#1	DCW	60.3	38,100	330	2,975	595	1190	2380
	RC	33.4	38,100	330	2,215	443	886	1772
	DCW	60.3	38,100	330	2,975	595	1190	2380
	RC	33.4	38,100	330	2,215	443	886	1772
EXP#2	DCW	60.3	45,136	390	3,240	648	1296	2592
	RC	33.4	45,136	390	2,410	482	964	1928
	DCW	60.3	45,136	390	3,240	648	1296	2592
	RC	33.4	45,136	390	2,410	482	964	1928
EXP#3	DCW	60.3	46,838	405	3,300	660	1320	2640
	RC	33.4	46,838	405	2,455	491	982	1964
	DCW	60.3	46,838	405	3,300	660	1320	2640
	RC	33.4	46,838	405	2,455	491	982	1964
EXP#4	DCW	60.3	31,674	275	2,715	543	1086	2172
	RC	33.4	31,674	275	2,020	404	808	1616
EXP#5	DCW	114.3	44,399	380	4,420	884	1768	3536
	RC	33.4	44,399	380	2,390	478	956	1912
	DCW	60.3	44,399	380	3,990	796	1592	3184
	RC	33.4	44,399	380	2,830	566	1132	2264
EXP#6	DCW	60.3	84,836	730	4,440	888	1776	3552
	RC	33.4	84,836	730	3,305	661	1322	2644



**NEW DOMESTIC COLD WATER PLAN**  
SCALE: 1:500  
0m 10m 20m 30m 40m 50m