



- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES AND FOR THE PROTECTION OF HIS OWN WORK AND MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS OWN WORK AND MATERIALS.
- UTILITY LEAD-INS TO BUILDING SHALL NOT BE SHOWN ON THESE PLANS. LEAD-INS SHALL BE DETERMINED BY THE CONTRACTOR AND LOCATIONS OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR.
  - CONNECTIONS TO EXISTING 20" WATER LINE SHALL BE PROVIDED BY CONTRACTOR. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL CONNECTIONS.
  - THE WATER METER SHALL BE FURNISHED BY PORTLAND WATER DEPARTMENT. INSTALLATION OF WATER METER SHALL BE BY SITE CONTRACTOR. WATER BOX SHALL BE FURNISHED BY CONTRACTOR AND SHALL BE APPROVED BY THE PORTLAND WATER DEPARTMENT.
  - GENERAL CONTRACTOR SHALL COORDINATE LOCATION OF ROOF DRAIN WITH ARCHITECTURAL PLANS FOR SUBMITTAL.
  - SHOULD LATENT SOIL CONDITIONS REQUIRE, CONTRACTOR SHALL PROVIDE SPECIAL SUPPORTS FOR PIPES AND/OR APPROPRIATE REINFORCEMENT INCLUDING REMOVAL OF UNSUITABLE MATERIAL AND BACKFILL WITH GRAVEL. OTHER MATERIAL CONTRACTOR SHALL PERFORM ANY SUCH WORK AS DIRECTED BY THE ARCHITECT AND/OR ENGINEER.
  - SEWER WILL REQUIRE INSULATION OVER TOP OF PIPE FOR EXPOSED LENGTH. SEE SPECIFICATIONS.
  - USE 3'-4" ELBOWS AT 90° CONNECTIONS OF UNDERDRAIN.
  - INSTALL STYROFOAM INSULATION OVER THE UNDERDRAIN PIPE WHERE THERE IS LESS THAN 3 1/2 FEET OF COVER OVER THE TOP OF THE PIPE AND FINISHED GRADE.

**CATCH BASIN SCHEDULE**

NUMBER	INVERT ELEVATION	OUTLET ELEVATION	INVERT ELEVATION	OUTLET ELEVATION
CB#1	72.50	12" - EL. 69.00	12" - EL. 69.00	12" - EL. 69.00
CB#2	72.50	12" - EL. 69.00	12" - EL. 69.00	12" - EL. 69.00
CB#3	71.50	12" - EL. 67.16	12" - EL. 67.16	12" - EL. 67.16
CB#4	71.50	12" - EL. 66.88	12" - EL. 66.88	12" - EL. 66.88
CB#5	71.50	12" - EL. 66.88	12" - EL. 66.88	12" - EL. 66.88
CB#6	71.50	12" - EL. 66.25	12" - EL. 66.25	12" - EL. 66.25
CB#7	71.50	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56
CB#8	71.50	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56
CB#9	71.50	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56
CB#10	71.50	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56
CB#11	71.50	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56
CB#12	71.50	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56
CB#13	72.00	12" - EL. 66.46	12" - EL. 66.46	12" - EL. 66.46
CB#14	73.50	12" - EL. 67.56	12" - EL. 67.56	12" - EL. 67.56
CB#15	72.00	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56
CB#16	73.00	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56
CB#17	72.00	12" - EL. 66.56	12" - EL. 66.56	12" - EL. 66.56

**DRAIN MANHOLE SCHEDULE**

NUMBER	INVERT ELEVATION	INVERT ELEVATION	INVERT ELEVATION
DM#1	74.00	12" - EL. 70.00	12" - EL. 70.00
DM#2	74.00	12" - EL. 70.00	12" - EL. 70.00
DM#3	73.50	12" - EL. 69.25	12" - EL. 69.25
DM#4	73.00	12" - EL. 68.00	12" - EL. 68.00
DM#5	71.50	12" - EL. 68.00	12" - EL. 68.00

**LEGEND**

- UNDERDRAIN CLEANOUT
- INVERT TO UNDERDRAIN PIPE
- 6" UNDERDRAIN

FOR INFORMATION ONLY

**ASBILT**

FIGURE 303

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>CHKD.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11/13/98</td> <td>REVISED BUILDING WATER SERVICE</td> <td>EUL</td> <td>LL</td> </tr> <tr> <td>2</td> <td>6/15/98</td> <td>ISSUED FOR ADDENDUM NO. 3</td> <td>LS</td> <td>EUL</td> </tr> <tr> <td>3</td> <td>6/11/98</td> <td>ISSUED FOR BID</td> <td>LS</td> <td>EUL</td> </tr> <tr> <td>4</td> <td>5/2/98</td> <td>REVISED PER C.C.S. REVIEW</td> <td>LS</td> <td>EUL</td> </tr> <tr> <td>5</td> <td>2/18/98</td> <td>REVISED AND REISSUED PER CITY COMMENTS</td> <td>LS</td> <td>EUL</td> </tr> <tr> <td>6</td> <td>1/31/98</td> <td>REISSUED FOR DEP. AND CITY REVIEWS</td> <td>EUL</td> <td>REK</td> </tr> <tr> <td>7</td> <td>10/8/97</td> <td>DEP. AND CITY OF PORTLAND APPLICATION REVIEW</td> <td>EUL</td> <td>REK</td> </tr> </tbody> </table>	NO.	DATE	DESCRIPTION	BY	CHKD.	1	11/13/98	REVISED BUILDING WATER SERVICE	EUL	LL	2	6/15/98	ISSUED FOR ADDENDUM NO. 3	LS	EUL	3	6/11/98	ISSUED FOR BID	LS	EUL	4	5/2/98	REVISED PER C.C.S. REVIEW	LS	EUL	5	2/18/98	REVISED AND REISSUED PER CITY COMMENTS	LS	EUL	6	1/31/98	REISSUED FOR DEP. AND CITY REVIEWS	EUL	REK	7	10/8/97	DEP. AND CITY OF PORTLAND APPLICATION REVIEW	EUL	REK	<p>DESIGN: R. REDFERN 10/6/97</p> <p>DRAWN: E. LEDUC 11/22/98</p> <p>CHKD.: R. REDFERN 10/6/97</p> <p>DEPT. HD.: _____</p> <p>PROCESS: _____</p> <p>PRIN. AGENT: _____</p> <p>CLIENT: _____</p> <p>SCALE: 1" = 40'</p>	<p>C-E ENVIRONMENTAL, INC.</p> <p>699 BOYLSTON STREET BOSTON, MASSACHUSETTS</p>	<p>BU'S WHOLESALE CO.</p> <p>PORTLAND, MAINE</p> <p>UTILITIES</p> <p>5967-80</p> <p>C-103 SHT. 5 OF 13</p>
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