

Appendix E: Water Graphics Levels

Level	Description	
1	<100mm main	lc=0
2	100mm main	lc= 0
3	150mm main	lc= 0
4	200mm main	lc= 0
5	250mm main	line code 0
6	300mm main	line code 0
7	350mm main 400mm main 450mm main	line code 0 line code 1 line code 2
8	500mm main 600mm main 750mm main 900mm main	line code 0 line code 1 line code 2 line code 3
9	1050mm main 1200mm main 1350mm main 1500mm main 1650mm main	line code 0 line code 1 line code 2 line code 3 line code 4
10	1800mm main 1950mm main 2100mm main misc size main	line code 3 line code 0 line code 1 line code 2
11	text/text node for <100mm main	line code 0
12	text/text node for 100mm main	line code 0
13	text/text node for 150mm main	line code 0
14	text/text node for 200mm main	line code 0
15	text/text node for 250mm main	line code 0
16	text/text node for 300mm main	line code 0
17	text/text node for 350mm main text/text node for 400mm main text/text node for 450mm main	line code 0 line code 1 line code 2
18	text/text node for 500mm main text/text node for 600mm main text/text node for 750mm main text/text node for 900mm main	line code 0 line code 1 line code 2 line code 3
19	text/text node for 1050mm main text/text node for 1200mm main text/text node for 1350mm main text/text node for 1500mm main text/text node for 1650mm main	line code 0 line code 1 line code 2 line code 3 line code 4

20	<p>text/text node for 1800mm main line code 3 text/text node for 1950mm main line code 0 text/text node for 2100mm main line code 1 text/text node for misc size main line code 2 (text/text nodes on levels 11-20 may also have related lead lines of same level, weight, line code and colour)</p>																																
21	<p>encasement shape (colour as above, wt=5) text (colour as above, lc=0,wt=1) lead line (colour as above, lc=0,wt=1)</p>																																
22	service lines on the street side (wt=3,lc=0, color: see color codes)																																
23	<p>text for services (colour as above, lc=0,wt=1) lead line for services (colour as above, lc=0,wt=1)</p>																																
24	<p>links (line strings co=0, wt=0, lc=0) nodes (cells co=1, wt=1, lc=1)</p>																																
25	<p>private area mains [both database and non-db] (lines, line strings, arcs; (colour:see color codes, lc=0,wt=3) related text (colour:see color codes, lc=0,wt=1)</p>																																
26	<p>Non-database parks services (colour as above, lc=0,wt=3) Non-database parks service valves (co=2,lc=0,wt=1) related text/text node (colour as above, lc=0,wt=1)</p>																																
27	historical valves, hydrants, mains, and related text (garbage dump)																																
28	Cathodic test points (col=8, cell=STP.)																																
29	Hydroscope runs																																
30	<p>service valves(co=2,lc=0,wt=1) Colour as it relates to valves indicates type as follows (all valves wt=1):</p> <table border="1"> <thead> <tr> <th></th> <th>dim</th> <th>coord</th> <th>scaled</th> </tr> </thead> <tbody> <tr> <td>check valve</td> <td>1</td> <td>7</td> <td>13</td> </tr> <tr> <td>main valve</td> <td>2</td> <td>8</td> <td>14</td> </tr> <tr> <td>air valve</td> <td>3</td> <td>9</td> <td>15</td> </tr> <tr> <td>pressure reducing valve</td> <td>4</td> <td>10</td> <td>16</td> </tr> <tr> <td>left hand valve</td> <td>5</td> <td>11</td> <td>17</td> </tr> <tr> <td>main valve in manhole</td> <td>6</td> <td>12</td> <td>18</td> </tr> <tr> <td>washout</td> <td>40</td> <td>46</td> <td>52</td> </tr> </tbody> </table> <p>(related text refers to text such as LHV or CLOSED. These items may also have a lead line. Both the text and lead line are the same colour as the related valve. Both the text and lead line are wt=1 & lc=0) Anode retrofit coverage col=2, lc=5 wt=10</p>		dim	coord	scaled	check valve	1	7	13	main valve	2	8	14	air valve	3	9	15	pressure reducing valve	4	10	16	left hand valve	5	11	17	main valve in manhole	6	12	18	washout	40	46	52
	dim	coord	scaled																														
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31	<p>valves on <100mm main & related text/text node line code 0 (co=200,lc=0,wt=1)</p>																																
32	<p>valves on 100mm main & related text/text node line code 0</p>																																

	(co=200,lc=0,wt=1)	
33	valves on 150mm main & related text/text node (co=200,lc=0,wt=1)	line code 0
34	valves on 200mm main & related text/text node (co=200,lc=0,wt=1)	line code 0
35	Text for private mains (database) valves on 250mm main & related text/text node (co=200,lc=0,wt=1)	line code 0
36	valves on 300mm main & related text/text node (co=200,lc=0,wt=1)	line code 0
37	valves on 350mm main & related text/text node (co=200,lc=0,wt=1)	line code 0
	valves on 400mm main & related text/text node (co=200,lc=0,wt=1)	line code 1
	valves on 450mm main & related text/text node (co=200,lc=0,wt=1)	line code 2
38	valves on 500mm main & related text/text node (co=200,lc=0,wt=1)	line code 0
	valves on 600mm main & related text/text node (co=200,lc=0,wt=1)	line code 1
	valves on 750mm main & related text/text node (co=200,lc=0,wt=1)	line code 2
	valves on 900mm main & related text/text node (co=200,lc=0,wt=1)	line code 3
39	valves on 1050mm main & related text/text node (co=200,lc=0,wt=1)	line code 0
	valves on 1200mm main & related text/text node (co=200,lc=0,wt=1)	line code 1
	valves on 1350mm main & related text/text node (co=200,lc=0,wt=1)	line code 2
	valves on 1500mm main & related text/text node (co=200,lc=0,wt=1)	line code 3
	valves on 1650mm main & related text/text node (co=200,lc=0,wt=1)	line code 4
40	valves on 1950mm main & related text/text node (co=200,lc=0,wt=1)	line code 0
	valves on 2150mm main & related text/text node (co=200,lc=0,wt=1)	line code 1
	valves other/misc sizes & related text/text node (co=200,lc=0,wt=1)	line code 2

41	valves on private area mains, PRV direction marker [ARW.] line code 0																				
42	hydrants Colour as it relates to hydrants indicates type as follows (all hydrant wt=1): <table border="0" style="margin-left: 40px;"> <thead> <tr> <th>Capture mode:</th> <th>dim</th> <th>coord</th> <th>scaled</th> </tr> </thead> <tbody> <tr> <td>private standard hydrant</td> <td>20</td> <td>24</td> <td>28</td> </tr> <tr> <td>private pumper hydrant</td> <td>21</td> <td>25</td> <td>29</td> </tr> <tr> <td>city standard hydrant</td> <td>22</td> <td>26</td> <td>30</td> </tr> <tr> <td>city pumper hydrant</td> <td>23</td> <td>27</td> <td>31</td> </tr> </tbody> </table>	Capture mode:	dim	coord	scaled	private standard hydrant	20	24	28	private pumper hydrant	21	25	29	city standard hydrant	22	26	30	city pumper hydrant	23	27	31
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43	misc flanged outlets/chambers/plugs/transition points/Access Manhole/Access Opening Colour as it relates to valves indicates type as follows (all items wt=1, lc=0): <table border="0" style="margin-left: 40px;"> <thead> <tr> <th></th> <th>dim</th> <th>coord</th> <th>scaled</th> </tr> </thead> <tbody> <tr> <td>flanged outlet</td> <td>41</td> <td>47</td> <td>53</td> </tr> <tr> <td>meter chamber/ AM/ AO</td> <td>43</td> <td>49</td> <td>55</td> </tr> <tr> <td>plug & clamp/transition</td> <td>45</td> <td>51</td> <td>57</td> </tr> </tbody> </table> (washouts may have extension lines of same colour, weight, and line code)		dim	coord	scaled	flanged outlet	41	47	53	meter chamber/ AM/ AO	43	49	55	plug & clamp/transition	45	51	57				
	dim	coord	scaled																		
flanged outlet	41	47	53																		
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44	private area outlines (co=0, wt=4, lc=0)																				
45	utility right of ways (co=20, wt=1, lc=1) lot lines forming ur/w boundary (co=0, wt=1, LC=0)																				
46	street names (co=0, wt=1, lc=0 ,tx=6.2)																				
47	plants/pump stations/reservoirs/ (co=0, wt=1, lc=0) text for plants/pump stations/reservoirs (co=0, wt=1, lc=0, tx=7.0)																				
48	text for private areas/by-law closures/rivers (co=0, wt=1, lc=0, tx=7.0) quarter section stub lines (co=2, wt=6, lc=0)																				
49	crossing loops (co=0, wt=1, lc=0)																				
50	valve chambers (co=0, wt=1, lc=0)																				
51	valve chamber/access manhole/access opening text (co=0, wt=1, lc=0) /text node (co=200, wt=1, lc=0) some conflict with Section Book!																				
52	main breaks (cell and text node)																				
53	Rectifier, cable lines, text (co=9, wt=1, lc=0, cell=RECTFR)																				
54	resistivity readings (cell and text node)																				

55	Hydrant head EBP marker Colour as it relates to positioned hydrants indicates type as follows (all positioned hydrants wt=1): Surveyed (co=6) Dimensioned (co=9) Digital Aerial Survey (co=51)
56	Inactive pipes and point features (co=80, lc=1)
57	electronic block profile elements
58	Planned assets - line features (co=0, lc=7)
59	Planned assets - point features (co=0, lc=7)
60	quality control - topology cells
61	Database services (residential, commercial, park) (co=0,lc=0,wt=0)
62	blowup details (valve chamber details in bottom left corner) future line assignments fence lines
63	border