### APPENDIX A – GENERAL STANDARD DETAIL DRAWINGS

<table>
<thead>
<tr>
<th>DRAWING NUMBER</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>G-01</td>
<td>Air Release Valve</td>
</tr>
<tr>
<td>G-02</td>
<td>Bedding Detail – Pressure Pipe</td>
</tr>
<tr>
<td>G-03</td>
<td>Bore and Jack Detail</td>
</tr>
<tr>
<td>G-04</td>
<td>Bridge Attachment – Typical</td>
</tr>
<tr>
<td>G-05</td>
<td>Bridge Attachment – Detail</td>
</tr>
<tr>
<td>G-06</td>
<td>Piling Pipeline Support</td>
</tr>
<tr>
<td>G-07</td>
<td>Curb Marking Detail</td>
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<tr>
<td>G-08</td>
<td>Restraint - Mechanical</td>
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<td>G-09</td>
<td>Restraint – Thrust Blocking</td>
</tr>
<tr>
<td>G-10</td>
<td>Typical Service Tie-in</td>
</tr>
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<td>G-11</td>
<td>Submerged Crossings</td>
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<td>G-12</td>
<td>Standard Valve Detail</td>
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<tr>
<td>G-13</td>
<td>Tapping Sleeve &amp; Valve Detail</td>
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<tr>
<td>G-14</td>
<td>2” Connection</td>
</tr>
<tr>
<td>G-15</td>
<td>Tee and Valves</td>
</tr>
</tbody>
</table>
NOT TO SCALE

AIR RELEASE VALVE IN MANHOLE

Graavel Base

2 Tapping Saddle

CPR Stop

AIR RELEASE VALVE ASSEMBLY

PRE-CAST CONCRETE MANHOLE STEPS

EXTEND TOP OF AIR RELEASE

MAXIMUM OF 2 GRADE RINGS ALLOWED

GRADE RINGS FOR HEIGHT ADJUSTMENT

MANHOLE FRAME & COVER

TO EXTEND 1" ABOVE LID

WATER TIGHT SEAL

PLAN

EASY ACCESS INTO MANHOLE

POSITION PIPE TO PROVIDE

MANHOLE DIA. 36.0

2. REFER TO SPECIFICATIONS FOR REQUIRED

3. REFER TO SAPERSON'S NOTES OTHREWSISE

1. SET TOPS OF MANHOLES FLUSH WITH

NOTES
DETAIL A. SUPPORT PILING

 ABOVE CHANNEL DETAIL AT BRIDGE

NOTES

1. All Piling Projects Requiring

2. All Piling Shall Have a Minimum Tip Diameter of 6" to Be Approved by BWUSA.

3. All Piling and Supports Shall Be Bearing Capacity Per 10 Tons.

4. Appropriate sized blowoffs shall be installed downstream to provide flushing capabilities.

5. All exposed Piling shall be painted prior to installation. Painted to ASTM D4520 Standard high visibility yellow.

6. Valves and Blowoffs shall be below final grade.

7. Rail installed beyond the limit of guard.

8. Flanged C.L. fittings.

9. Control valve (each side)
Curb Marking Detail

Section A-A

Detail "B"

Curb Vertical Face

Detail "A"

Curb Vertical Face

Plan View

More Than 2' 8"

1. Disc Must be EMBEDDED. MAY NOT PROJECT PAST CONCRETE SURFACE OR EMBEDDED EMBEDDED ADJACENT TO EMBOSSED LETTER AND MARKED TO INDICATE LOCATION OF EMBOSS.

RECOMMENDED USE:
- EMBOSSED LETTER AND MARKED TO INDICATE LOCATION OF EMBOSS.
- Curb Marking Shall Be Dated With "A.
- Water Service Shall Be Dated With "W"
- Service Marking Shall Be Dated With "S"
- A MARKING SHALL BE EMBOSSED INTO CURB FACE.

1. CURB MARKING SHALL BE PERPENDICULAR WITH SERVICE LOCATION.

NOTES
Mechanical restraint

Water & Sewer Authority
Beaufort - Jasper

Typical Future Stubout

NOTE:

1. Joint is defined to be a minimum of 10" in length.

2. Joint behind wall shown herein should be increased accordingly.

The minimum dimensions table is based on an assumed soil bearing of 2000 lbs per sq ft. If bearing value for soil is less than 2000 lbs per sq ft, increase dimensions accordingly.

<table>
<thead>
<tr>
<th>Size (in)</th>
<th>Blocking Width (in)</th>
<th>Bearing Width (in)</th>
<th>Area (ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>2</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>7</td>
<td>8</td>
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<td>48</td>
<td>7</td>
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<tr>
<td>60</td>
<td>10</td>
<td>10</td>
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</tbody>
</table>

Typical Fitting and Joint Restraint

Sizes greater than 10"

Recommended for use under:

- Two Bell Restraint Joins
- Two Bell Restraint Joins
- Two Bell Restraint Joins

Minimum Restraint 10" and smaller:

90° Ell (2)
45° Ell (1)
22.5° Ell (1)

Mechanical Restraint at Two Joins

Bell Restraint at Two Joins
RESTRAINT, THRUST BLOCKING

WATER & SEWER AUTHORITY
BEAUFORT - JASPER

To using thrust blocking:
Prior approval must be obtained from EWSA prior
Where mechanical restraints are not feasible.
Concrete thrust blocking shall only be used

NOTE:

Pipe or fittings
Place 20 ga. gauv
AND BLOCKING
Sheet between plug
Plugging end of

Pipe

AREA AGAINST
UNDISTURBED SOIL

BOLTS
MECHANICAL JOINT
NO CONCRETE ON

90° BEND
45° BEND
22 1/2° BEND
NOTES:

1. Cleanouts not more than 70' apart.

2. Cleanouts shall be installed at a number of locations.

EACH SERVICE CONNECTION AND A OTHERWISE REQUIRED.
VALVE AND VALVE BOX

- Footings are to be installed.
- The valve box is to be installed if soils are not stable enough to maintain.
- Footings are to be installed, 6" above final grade.
- Valve and valve box in moved areas to be set to a depth of 8's.
- All sides 3 7/8" thick.
- Precast concrete collar.

NOTES
- Precast concrete collar.
- Label water or sewer.
- Markers are to be set.
- Directional arrow is distance to each corner.
- 2 7/8" Chapter AT.
- 2 Round Cast Brass Survey.
- Grout after final setting.
- Markers at each corner.
- 2 PC #5 Rebar.
- 1.3" x 3/4" Square.
- 1.3" x 6" x 12" Rebar.
- Precast concrete collar.
- 6" Min. from valve top.
- Value box top is to be traffic rated.
4. Notch top of PVC pipe to avoid pinching tracer wire.
3. Tap diameter shall be within ± line diameter.
2. All wet taps ≥ 1½ and under shall be performed by BWSA.
1. All tapping sleeves greater than 2 shall be

NOTES:

HYDROSTATIC PRESSURE TESTED TO 150 PSI FOR 20
FINISH GRADE

SEE NOTE 4

TRACER WIRE

VALVE BOX

SEE NOTE 5

TAPPING SLEEVE & VALVE DETAIL WATER & SEWER AUTHORITY BEAUFORT - JASPER

GATE VALUE

FLANGE X W TAPPING

PIE O.D.