

**CITY OF AUMSVILLE  
Public Works Design Standards**

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**Material & Equipment Summary Sheet (partial list)**

**Appendix H**

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Note: The following worksheet is provided for convenience of reference by developers, contractors & suppliers. It may not list all material and equipment specified or allowed in the PWDS and standards, but is limited to some of the more common materials and equipment.

See PWDS 1.4 for definitions of “Equal” and “Substitute”, with approval of such to be at the discretion and per the judgement of the Aumsville Public Works Director and/or the City Engineer.

In the case of discrepancies between this summary listing and the text or details in the PWDS, the more stringent (*as determined by the City Engineer and the Public Works Director*) shall apply.



<b>City of Aumsville, Material &amp; Equipment Summary Sheet (partial list)</b>	
<b>Category</b>	<b>Make/Model/Specification</b>
AC Pavement	3/4" dense graded mix, Level 2 or Level 3 as noted, lift thickness per details ( <i>see street details 201-204, PWDS 2.10.b</i> ).
AC Compaction	91% Rice (min)
Street Baserock	Size options per details & PWDS 2.10.c, gradation per OSSC (ODOT/APWA) 02630.10 ( <i>Dense Graded Base Aggregate</i> ), with no more than 10% passing the #40 sieve and no more than 5% passing the #200 sieve
Street Baserock Compaction	95% Modified Proctor ( <i>AASHTO T-180/ASTM D1557</i> )
Concrete	3,300 psi @ 28 days, 5" slump, 4.5% air ( <i>PWDS 2.10.d</i> )
Geotextile Fabric	Per PWDS 2.10.f, by application.
Street/Traffic Signs	Per Detail 232
Street Lights	Per Detail 230
Collapsible Bollard (where appr'd)	Per Detail 228
Trench Backfill	3/4"-0 granular backfill per Note 86.
Trench Backfill Compaction	92% Modified Proctor ( <i>AASHTO T-180/ASTM D1557</i> )
Storm Pipe by Cover Depth	Per approved plans ( <i>based on PWDS 3.8.b table</i> ), uniform pipe between structures, based on shallowest cover depth of run.
Exposed Pipe End Protection	Concrete endcap on plastic pipe per endnotes on PWDS 3.8.b table ( <i>culverts or storm outfalls</i> ).
Catch Basins along streets.	Grated, side inlet per Detail 310 ( <i>standard</i> ) or 311 ( <i>oversize</i> ), size as noted on plans.
24" Storm MH (where appr'd)	Per Detail 350/351
Private Catch Basins	Per Details 315/316/317 & OPSC requirements.
Private Area Drains	15" Nyloplast grate, slanted & configured per Detail 355.
Gravity Sewer Pipe	PVC per ASTM D-3034 or F-679, SDR 35.
Standard Manholes (SS & SD)	Per Details 401-403A
Manhole Lids	2 hole for sanitary sewer, 16 hole for storm
Sewer/Storm <u>Main</u> cleanout boxes	CI box per Detail 411 ( <i>wording for sewer &amp; storm per detail</i> )
Sewer/Storm <u>Lateral</u> cleanout boxes ( <i>non-traffic areas</i> )	Plastic Carson 910 T-cover box per Detail 415 ( <i>wording for sewer &amp; storm per detail</i> ), green lid for sewer, grey lid for storm
Sewer/Storm <u>Lateral</u> cleanout boxes ( <i>traffic areas</i> )	CI box ( <i>wording for sewer &amp; storm per detail</i> ), concrete pad around box
Inside Drop Assembly (SS & SD)	Reliner drop bowl per Detail 404

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Category	Make/Model/Specification
Sewer/Storm Lateral Connection ( <i>new mainlines</i> )	Tee-wyes per Detail 415
Sewer/Storm Lateral Connection ( <i>existing mainlines</i> )	Inserta-Tee ( <i>fatboy style</i> ) per Detail 419
PVC Waterline	C900 PVC, DR 18.
Ductile Iron Waterline	CI 52 wall thickness
Water Mainline Fittings	Ductile Iron MJ per AWWA C-153 Flanged per AWWA C-110.
Mainline Coupling, unrestrained	Hymax Wide Range Coupling, or options per PWDS 5.9.e.3.
Mainline Coupling, restrained	Hymax Grip or Romax Alpha couplings.
Water Mainline Valves	Per Detail 510/502, based on size & pressure of mainline ( <i>resilient wedge gate valve or butterfly valve, fusion bond epoxy coated</i> )
Water Mainline Valve Boxes	CI Vancouver style box, 3034 PVC riser, VC212 self centering valve box base, per Detail 510/502
Fire Hydrant	Mueller Super Centurion, Model A-423, full size foot valve, factory red, Storz adapter & cap per Detail 503.
Tapping Tee	Stainless steel sleeve & flange ( <i>Romac SST/SSTIII/Mueller H304, or JCM 432</i> )
Water Mainline Blowoff	Kupferle Mainguard, configuration & size per Detail 506/507.
Straddle Block Anchor Fittings	Two retainer glands set opposed, or one Romac 600 ( <i>wrap anchors in thin plastic prior to concrete placement</i> )
Water Service Pipe	Blue Munipex ( <i>CTS, SDR 9, 200 psi rated</i> )
Water Service Saddle	Romac 202NS, all pipe types
Service Brass, typical 1" service	Mueller 300 series ball style w/Pack Joint ends & stiffner insert, per Detail 515 <ul style="list-style-type: none"> <li>• 1" Ball Corp Stop</li> <li>• 1" Angle Ball Lock Wing Meter Stop, w/1"x5/8-3/4 meter reducer</li> <li>• Meter Outlet Coupling, ball valve w/handle.</li> </ul>
1½" Service tap	Romac 202NS, Mueller 300 series ball corp stop, per Detail 517
2" Service tap	Mainline x 4" tee ( <i>MJ x Fl</i> ), gate valve ( <i>Fl x MJ</i> ) w/restrained MJ plug tapped 2", per Detail 517
¾" & 1" meter box	13" x 24" box, Armorcast A6001946PCX12 w/A6001866 top AMR/AMI configured, per Detail 516
1½" & 2" meter box	24" x 36" box, Armorcast A6001974PCX12 w/A6001975 top AMR/AMI configured, per Detail 516
Meter Setter, 1½ & 2" service	Ford VBB76-12HB-11-66 (1½") high locking bypass or VBB77-12HB-11-77 (2") high locking bypass, per Detail 516

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<b>Category</b>	<b>Make/Model/Specification</b>
ARV assembly	Configured per Detail 518, w/ ARI D-040C combo air/vac valve, Mueller 300 corp stops, 17" x 30" meter boxes (2), brass riser, stainless steel clamps, Morrison MR 155 screened tee vent, 4" or 6" steel pipe bollard painted blue.
3" & Larger Meters	Vault w/aluminum hatch, meter, pipe, fittings, bypass line & valve, bypass lock, sump & sump pump, per Details 523-528.
Backflow Assemblies	Per Details 541-545 & state standards.
Fire Line Service Connection	Mainline x 4" min tee ( <i>MJ x Fl</i> ), gate valve ( <i>Fl x MJ</i> ), DI fire line to edge of R/W or easement, configuration per Detail 550
Double Check Detector Assembly w/FDC ( <i>fire service backflow in vault</i> )	Vault w/aluminum hatch, meter, pipe, fittings, FDC w/ball drip valve, sump & sump pump, per Details 554-556 & state standards.
Forward Flow Test Port on Fire Service (per NFPA 13 & 25)	In vault configuration per Detail 559, or inside building if DDCA is located inside building. Not required if there are private fire hydrants downstream of DCDA assembly.
Fire System FDC line Ball Drip valve on remote FDC.	Configuration per Details 560- 562, unless another option conforming to OFC & NFPA is proposed & approved by Fire Code Official.
Bore Casing for water/sewer/storm pipes	Configuration & materials per Detail 508, casing size per PWDS 5.8.p.3 table ( <i>based on carrier pipe size &amp; material</i> ).

