

## Sewerage Pumping Station Code of Australia

The Power and Water Corporation has moved to adopt the Sewerage Code of Australia as the general basis for the design of sewerage infrastructure under its control in the Northern Territory. This document is read as a supplement to the Sewerage Code of Australia to provide details of those modification and additions to suit the particular requirements of the Power and Water Corporation.

Where appropriate WSA Standard Drawings are either:

- ❖ Adopted in full (AIF)
- ❖ Adopted with minor amendments or qualification (NT Variant)
- ❖ Not Applicable to PWC works. Refer to PWC issue Standard Drawings for equivalent details (N/A)

In addition, PWC have issued some standard drawings for which there is no WSA equivalent

Requirement	WSAA Drawing Title	WSAA Drawing
AIF	Concept Plan – Typical Catchment Plan	SPS-1100
N/A	<del>Pumping Station Concept Design – Site Layout</del>	<del>SPS-1101</del>
NT Variant	Pumping Station Concept Design – Site Plan	SPS-1102
N/A	<del>Pumping Station Concept Design – Power and Control Cubicle, Base and Conduit Details</del>	<del>SPS-1103</del>
AIF	Pressure Main Concept Design – Sections and Mean Static Head Calculation	SPS-1104
N/A	<del>Typical Site Plan – Sydney Water – Fronting and Not Fronting Adjacent Roadway</del>	<del>SPS-1200</del>
N/A	<del>Typical Site Plan – SA Water – Fronting Adjacent Roadway</del>	<del>SPS-1201</del>
N/A	<del>Typical Site Plan – SA Water – Not Fronting Adjacent Roadway</del>	<del>SPS-1202</del>
N/A	<del>Typical Site Plan – Brisbane Water – Fronting Adjacent Roadway</del>	<del>SPS-1203</del>
N/A	<del>Typical Site Plan – SA Water Corporation – Fronting Adjacent Roadway</del>	<del>SPS-1204</del>
AIF	Access Roadway – Cross Section and Drainage Details	SPS-1205
NT Variant	General Arrangement – Inlet MH, Wet-Well and Valve Chamber	SPS-1300
NT Variant	Detailed Arrangement – Wet-Well, Buried Valves, DN 100 Pipework	SPS-1301
NT Variant	Civil Plan – Wet-Well and Valve Chamber	SPS-1302
NT Variant	Wet-Well Construction – Pre-Cast Concrete Components	SPS-1303
NT Variant	Wet-Well Construction – Cover and Access Hole details	SPS-1304
NT Variant	Electrical and Telemetry – Conduit Details	SPS-1305
N/A	<del>Valve Chamber Adjacent to Wet Well – Pipe, Section and Cover – Non-Trafficable</del>	<del>SPS-1306</del>
N/A	<del>Valve Chamber Adjacent to Wet Well – Pipework</del>	<del>SPS-1307</del>
NT Variant	Water Supply – Reduced Pressure Zone Arrangement	SPS-1308
NT Variant	Mobile Pump Connection Arrangement – Pumping Stations ≤40 L/s	SPS-1309
NT Variant	Mobile Pump Connection Arrangement – Pumping Stations >40 L/s	SPS-1310
NT Variant	Grit Collection MH – Detailed Arrangement	SPS-1400
NT Variant	Grit Collection MH – Detailed Arrangement	SPS-1401

Requirement	WSAA Drawing Title	WSAA Drawing
NT Variant	Emergency Storage – Typical Arrangement and Levels Configuration 1	SPS-1402
NT Variant	Emergency Storage – Shallow and Deep Installations and Brickwork	SPS-1403
NT Variant	Emergency Relief System – Arrangement and Cross Section for DN 150 to DN 375 Overflow Pipes	SPS-1404
NT Variant	Discharge MH – Arrangement and Cross Section for Pressure Mains $\leq$ DN 300	SPS-1405
N/A	<del>Pump to Pressure Main Connection – Hose Connection Band Assemblies</del>	<del>SPS-1500</del>
N/A	<del>Pump to Pressure Main Connection – Wall Pipe Bracket Assemblies</del>	<del>SPS-1501</del>
N/A	<del>Pump to Pressure Main Connection – Wall Pipe Bracket Details</del>	<del>SPS-1502</del>
N/A	<del>Pump to Pressure Main Connection – Hose Connection Bends</del>	<del>SPS-1503</del>
N/A	<del>Pump to Pressure Main Connection – Hose Connection Bend Quick Connection Details</del>	<del>SPS-1504</del>
NT Variant	Hydraulic Level Sensor – Stilling Tube	SPS-1505
NT Variant	External Hinged Covers – Opening Grate Type	SPS-1506
NT Variant	External Hinged Covers – Opening Grate Type	SPS-1507
N/A	<del>Miscellaneous Details – Survey Plate, Pump Label Plate, Valve Spindle Access</del>	<del>SPS-1508</del>
AIF	Design – Typical Pressure Main Characteristic Curve	SPS-1600
NT Variant	Pipe Installation, Support and Trench Fill – Pressure Mains $\leq$ DN 300	SPS-1601
NT Variant	Scour Arrangement – Pump and Gravity	SPS-1602
NT Variant	Scour Arrangement – Pressure Mains $\leq$ DN 300 $\leq$ 2.2m to Invert	SPS-1603
N/A	<del>Scour Arrangement – Pressure Mains <math>\leq</math>DN 300 <math>&gt;</math>2.2m to Invert</del>	<del>SPS-1604</del>
NT Variant	Gas Release Arrangement - Pressure Mains $\leq$ DN 300	SPS-1605
N/A	<del>Gas Release Arrangement – Pressure Mains <math>&gt;</math>DN 300</del>	<del>SPS-1606</del>
AIF	Soil Classification Guidelines and Allowable Bearing Pressures for Bulkheads	SEW-1200
AIF	Embedment & Trench Fill – Typical Arrangements	SEW-1201
NT Variant	Standard Embedment – Flexible & Rigid Pipes	SEW-1202
NT Variant	Special Embedment – Inadequate Foundations Requiring Over-Excavation & Replacement	SEW-1203
NT Variant	Special Embedment – Support Utilising Piles	SEW-1204
AIF	Special Embedment – Concrete & Stabilised Supports	SEW-1205
AIF	Trench Drainage – Bulkheads & Trenchstop	SEW-1206
NT Variant	Trench Drainage – Typical Systems	SEW-1207
AIF	Verticals & Near Verticals – Exposed & Concealed Methods	SEW-1208
N/A	<del>Maintenance Holes – Sewers <math>\leq</math> DN 300 – Pre-Cast Types P1 &amp; P2</del>	<del>SEW-1300</del>
N/A	<del>Maintenance Holes – Sewers <math>\leq</math> DN 300 – Cast In-situ Types C1 &amp; C2</del>	<del>SEW-1301</del>
N/A	<del>Maintenance Holes – Pipe Connection Details</del>	<del>SEW-1302</del>
N/A	<del>Maintenance Holes – Sewers <math>\leq</math> DN 300 – Changes in Level Details</del>	<del>SEW-1303</del>
N/A	<del>Maintenance Holes – Sewers <math>\leq</math> DN 300 – Typical Channel Arrangements</del>	<del>SEW-1304</del>
N/A	<del>Maintenance Holes – Typical Channel Arrangements</del>	<del>SEW-1305</del>

Requirement	WSAA Drawing Title	WSAA Drawing
N/A	<del>Maintenance Holes – Alternative Drop Connections</del>	<del>SEW-1307</del>
N/A	<del>Maintenance Holes – Typical MH Cover Arrangements</del>	<del>SEW-1308</del>
N/A	<del>Maintenance Holes – MH Connection Details – DN 110 to DN 450 PE Pipe</del>	<del>SEW-1313</del>
NT Variant	Maintenance Shafts – Typical Installation	SEW-1314
N/A	<del>Maintenance Shafts – MS &amp; Variable Bend Installations</del>	<del>SEW-1315</del>
NT Variant	Maintenance Shafts – TMS and Connection Installations	SEW-1316
NT Variant	Maintenance Shafts – Typical MS Cover Arrangements	SEW-1317
AIF	Buried Crossings – Syphon Arrangement	SEW-1400
NT Variant	Buried Crossings - Railways	SEW-1401
NT Variant	Buried Crossings – Major Roadways	SEW-1402
AIF	Buried Crossings – Bored & Jacked Encasing Pipe Details	SEW-1403
AIF	Aerial Crossings – Bridge Crossing Concepts	SEW-1406
NT Variant	Ventilation Systems – Induct Vent	SEW-1407
NT Variant	Ventilation Systems – Educt Vent	SEW-1408
NT Variant	Embedment & Trench Fill – Typical Arrangement	WAT-1201
NT Variant	Standard Embedment – All Pipe Types	WAT-1202
N/A	<del>Special Embedments – Inadequate and Poor Foundation</del>	<del>WAT-1203</del>
N/A	<del>Special Embedments – Concrete, Geotextile and Cement Stabilised Systems</del>	<del>WAT-1204</del>
NT Variant	Thrust Block Details Concrete Blocks	WAT-1205
N/A	<del>Thrust Block Details – Timber &amp; Recycled Plastic Blocks</del>	<del>WAT-1206</del>
NT Variant	Thrust and Anchor Blocks – Gate Valves and Vertical Bends	WAT-1207
AIF	Restrained Joint System – DN 100 to DN 375 DI Mains	WAT-1208
AIF	Trench Drainage – Bulkheads & Trenchstop	WAT-1209
N/A	<del>Trench Drainage – Typical Systems</del>	<del>WAT-1210</del>
AIF	Buried Crossings Under Obstructions	WAT-1211
AIF	Buried Crossing Major Roadways	WAT-1212
AIF	Buried Crossings - Railways	WAT-1213
NT Variant	Buried Crossings – Bored & Jacked Encasing Pipe Details	WAT-1214
N/A Refer W1-2-03D, W1-2-03F & W1-2-03H	Valve and Hydrant Identification Markers and Marker Posts	WAT-1300
N/A Refer W1-2-03A, W1-2-03B & W1-2-03	<del>Typical Surface Fitting Installation – Gate Valve Surface Boxes – Non-Trafficable</del>	<del>WAT-1303</del>
N/A Refer W1-2-03A, W1-2-03B & W1-2-03	<del>Typical Surface Fitting Installation – Gate Valve Surface Boxes – Trafficable</del>	<del>WAT-1304</del>
NT Variant	Typical Appurtenance Installation – Scour Arrangements	WAT-1307
AIF	Aerial Crossings - Aqueduct	WAT-1310
AIF	Aerial Crossings – Aqueduct - Protection Grille	WAT-1311
AIF	Aerial Crossings – Bridge Crossing Concepts	WAT-1312

<b>Requirement</b>	<b>WSAA Drawing Title</b>	<b>WSAA Drawing</b>
AIF	Flanged Joints – Bolting Details	WAT-1313
AIF	Typical Steel Pipe Jointing – Butt Welding of Joints	WAT-1400
AIF	Typical Steel Pipe Jointing – Rubber Ring Joint Spigot Bands	WAT-1401
NT Variant	Typical Steel Pipe Jointing – Welded Pipe Collars	WAT-1402
NT Variant	Typical Steel Fabrication - Bends	WAT-1403
NT Variant	Joint Corrosion Protection Cement Mortar Lined Steel Pipe DN 300 to DN 1200	WAT-1408
N/A	Hydrant Installation Fittings – PE Assemblies	WAT-1409