

SPECIFICATIONS AND FORMS SUMMARY OF REVISIONS

DESIGN SPECIFICATIONS

3.0 <u>WATER SYSTEM</u>

Section	Title	Key Revision Information
3.2.2.10	Water Main Size	Water main in cul-de-sacs adjusted to
		100mm DI .
3.2.3.1	Water Main Material	Added Wire Bond Jumper Strap
		requirements.
3.2.4	Valves	Added guidelines for valve placements at
		end of development phases.

4.0 <u>WASTEWATER SYSTEM</u>

Section	Title	Key Revision Information
4.2.5.1	Wastewater Service Connection General Req.	Added guidelines for the allowance of couplings along a Wastewater Service Connection.
4.3.9.7	Force Main Velocity	Specified minimum and maximum velocity for wastewater force mains.

5.0 STORMWATER SYSTEM

Section	Title	Key Revision Information
5.5	Stormwater System Design	Removal of the \pm 10% allowance related
		to pre & post development stormwater
		balancing.
5.5.1.14	Stormwater Catch Basin	Adjusted wording concerning stormwater
		treatment unit requirements.
5.5.2.1	Stormwater Service Connection	Added requirement of when a property has
		access to a Combined and Stormwater
		System, the Stormwater Service
		Connection must connect to the
		Stormwater System.
		&
		Added guidelines for the allowance of
		couplings along a Stormwater Service
		Connection.



7.0 DRAWING REQUIREMENTS

Section	Title	Revision Information
7.3.2	Delivery Format	Added list of digital delivery requirements
		in introductory statement.

SECTION 33 11 00 - WATER MAINS

PART 2 - PRODUCTS

Section	Title	Key Revision Information
2.7	Polyethylene Encasement	Adjust Polyethylene Encasement
		requirement to V-Bio or approved
		equivalent.
2.12.2	Air Release, Air/Vacuum &	Adjusted wording to match configuration
	Combination Air Valves – 50mm	of Standard Detail.
	diameter to AWAA C512	
2.13	Pressure Reducing Valves	Added in-line strainer requirement.
2.14	Valve Boxes	Updated guidelines for cover markings.
		&
		Removed Type 2, Type 3, & Type 4
		adjustments.
		5
2.15	Hydrants	Corrected to include Bennery Lake in the
		East Region for hose/pumper ports.
		&
		Updated Specified Paint.
2.23	Insulation	Added clarifying wording.

PART 3 – EXECUTION

Section	Title	Key Revision Information
3.3	Pipe Installation	Removed requirement for installation of
		anti-corrosion petrolatum paste, tape and
		mastic to valve and hydrant flange nuts
		and bolts and valve bonnet nuts and bolts.
3.8	Hydrant Installation	Added requirement for new hydrant
		installations in greenfield sites.
3.13	Connections to Existing Main	Added offline testing requirements.
3.14	Water Service Connections	Added offline testing requirements.
		&
		Added anchor tee as approved method of
		installation for water service connection
		100mm & greater.



<u>SECTION 33 31 00 – WASTEWATER MAINS</u>

PART 2 – PRODUCTS

Section	Title	Key Revision Information
2.9	Service Pipe	Added standards for service couplings.

SECTION 33 32 11 – WASTEWATER PUMP STATIONS

PART 2 – PRODUCTS

Section	Title	Key Revision Information
2.3	Submersible Pump Hatch Accessories	Removed Stainless Steel as material type for lifting chains.

SECTION 33 39 00 - MANHOLES, CATCH BASINS & STRUCTURES

PART 1 – GENERAL

Section	Title	Key Revision Information
1.3	Reference Standards	Addition of Reference Standard.

PART 2 – PRODUCTS

Section	Title	Key Revision Information
2.5	Waterproofing	Added combined manholes to standard.
2.9	Flexible Rubber Connectors	Added new product to section.

SECTION 39 00 00 – STANDARD DETAILS

Drawing No.	Title	Key Revision Information
HWSD - 1020	POLYETHYLENE ENCASEMENT ON DUCTILE IRON WATER MAINS	Updated wording to reflect new V-Bio Polyethylene Encasement requirement.
HWSD - 1022 *NEW*	WIRE BOND JUMPER STRAPS	New Standard Detail.
HWSD - 1036	CUL-DE-SAC WATER MAIN REDUCTION	Water main in cul-de-sacs adjusted to 100mm DI.
HWSD – 1100	HYDRANT INSTALLATION RURAL STREET	Added a 300mm radius of type 1 around the hydrant detail. Added geosynthetic filter fabric encasing the clear stone.
HWSD – 1110	HYDRANT INSTALLATION URBAN STREET	Added a 300mm radius of type 1 around the hydrant detail. Added geosynthetic filter fabric encasing the clear stone.
HWSD – 1160	STANDARD SERVICE CONNECTION FROM WATERMAIN TO HOUSE	General formatting updates.



SPECIFICATIONS AND FORMS SUMMARY OF REVISIONS

[DI LIMDINIC LIDDANI STREET	
	PLUMBING URBAN STREET (WITH SIDEWALK)	
HWSD – 1182	WATER SERVICE CONNECTION	Added link seal and pipe to top figure.
1100 SD = 1102	FOR SLAB ON GRADE	
	CONSTRUCTION	Corrected reference in Note 5.
HWSD - 1240	EXISTING WASTEWATER	General formatting updates.
	SERVICE CONNECTION REPAIR	8
	DETAIL	
HWSD - 1250	REQUIRED MINIMUM	Added wording to indicate clearances are
	CLERANCES BETWEEN	as per the most stringent requirements
	UNDERGROUND CONDUITS AND WATER SYSTEM	(HW or Conduit Utility).
HWSD - 1270	PIPE SUPPORT DETAIL	
		General formatting updates.
HWSD – 1290	PRV CHAMBER PLAN	Adjusted piping configuration, added in-
		line strainer.
HWSD - 1340	METER CHAMBER FOR	Removed reference to PVC, added butyl
	WATERMAINS	resin-cord (Ram-Nek).
HWSD - 1450	PRECAST MANHOLE	
		Adjusted waterproofing wording.
HWSD – 1470	PRECAST INTERNAL DROP MANHOLE SECTION	Added butyl resin-cord (Ram-Nek).
	MANHOLE SECTION	
HWSD - 1480	PRECAST EXTERNAL DROP	Added butyl resin-cord (Ram-Nek).
	MANHOLE SECTION	5
HWSD – 1510	BUILDING SERVICE	Added notes to allow DVC soundings
11 w SD - 1310	CONNECTION – PROFILE VIEW	Added notes to allow PVC couplings
		along a Wastewater/Stormwater Service
		Connection.
HWSD - 1520	STANDARD 50 mm PRESSURIZED WASTEWATER SERVICE CONNECTION	Removed incorrect reference from notes.
HWSD - 1530	RESIDENTIAL SERVICE	Adjusted access point plate size.
11000 1000	CONNECTION ACCESS TE	rujusted decess point plate size.
HWSD – 1564	COMBINED SERVICES	Adjusted the stormwater service
	CONNECTION DETAIL OVER &	connection to tie into the wastewater
	UNDER DUPLEX SINGLE FAMILY	service connection in the ROW after the
	DWELLING	
		curb line.
HWSD - 1566	COMBINED SERVICES CONNECTION DETAIL FOR ICI	Adjusted the stormwater service
	BUILDINGS	connection to tie into the wastewater
	Delibition	service connection in the ROW after the
		curb line.
HWSD - 1568	COMBINED SERVICES	
11000 - 1500	CONNECTION DETAIL FOR ICI	Adjusted the stormwater service
	BUILDINGS ZERO SETBACK	connection to tie into the wastewater
		service connection in the ROW after the
		curb line.
HWSD - 1570	1050 mm PRECAST CATCHBASIN	Added butyl resin-cord (Ram-Nek).
HWSD - 1628	INLET GRATE DETAIL	Added note that inlet grate spacing to be
		200mm.
1000 1640	HRM CORE BOUNDARY MAP	
HWSD - 1640	TIKWI COKE DOUNDAKT MAP	Adjusted to reflect new boundary.



<u>DS8 – VALVE ATTRIBUTE LIST</u>

Section	Title	Key Revision Information
-	Key Number	Updated Descriptions for Key Number
		Code 1, 2 & 3.