



NTS

DRAWING NO.		DRAWING TITLE	
BXX-XXXX	XXX		
		<div>(DRAWING NUMBERS TO BE IN NUMERICAL ORDER)</div>	

DRAWING NO.	DRAWING TITLE
W1-1-01A	DN20 WATER SERVICE - COPPER LOW HAZARD
<div style="border: 1px solid black; padding: 10px; text-align: center;"><p>(UPDATE THE STANDARD DRAWING LIST NAMES & AMENDMENTS TO THE LATEST VERSION)</p><p>(DRAWING NUMBERS TO BE IN NUMERICAL ORDER)</p></div>	

This drawing is valid for 2 years from the date of signing



(INSERT CERTIFIERS SIGNATURE, NAME,
DATE & REGISTRATION)

WATER DOMESTIC _____ L/s
DOMESTIC STORAGE _____ L DOMESTIC
PRESSURE PUMPS _____ L/s

FIRE	L/s
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— W —	WATER MAIN
— F —	FIRE MAIN
 — W — }	WATERMAIN, SLUIICE VALVE, FIRE HYDRANT & ENDCAP
<u>PROPOSED WORKS</u>	
— W —	WATER RETICULATION
—  —	SECTION OR SLUIICE VALVE
—  —	SECTION OR SLUIICE VALVE WITH BOX
—  —	NON RETURN VALVE (BACKFLOW PREVENTION)
—  —	CAPPED END
—  —	REDUCER
—  FH —	FIRE HYDRANT
—  —	CHANGE IN LEVEL
— F —	FIRE MAIN

AC	ASBESTOS CEMENT
A/G	ABOVE GROUND
BM	BENCH MARK
CICL	CAST IRON CEMENT LINED
DE	WATERMAIN DEAD END
DICL	DUCTILE IRON CEMENT LINED
DN	NOMINAL BORE
D/S	DOWNSTREAM
EW	ENDWALL
FH	FIRE HYDRANT
FL	FLANGED JOINT
FSL	FINISHED SURFACE LEVEL
HD	HEAVY DUTY
HW	HEADWALL
GIP	GRATED INLET PIT
GP	GUIDE POST
GPT	GROSS POLLUTANT TRAP
IL	INVERT LEVEL
INCL	INCLUSIVE
IP	INTERSECTION POINT
LBP	LETTER BOX PIT
LD	LIGHT DUTY
MH	MAINTENANCE HOLE (SEWER ACCESS CHAMBER)
MMDD	MAXIMUM MODIFIED DRY DENSITY
MS	MAINTENANCE SHAFT
MSCL	MILD STEEL CEMENT LINED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OD	OPEN UNLINED DRAIN
PP	POWER POLE
PVC-M	PVC-M PIPEWORK
RCBC	REINFORCED CONCRETE BOX CULVERT
RCP	REINFORCED CONCRETE PIPE
RRJ	RUBBER RING JOINT
SEP	SIDE ENTRY PIT
SL	SURFACE LEVEL
SO	SOCKET
SP	SPIGOT
STN	SURVEY STATION
SV	SLUICE VALVE
TMS	TERMINAL MAINTENANCE SHAFT
TPIT	TELSTRA PIT
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
U/S	UPSTREAM

- WS.1. CONSTRUCTION OF THE WATER AND SEWERAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST APPROVED PROJECT DRAWINGS, SPECIFICATION AND POWER AND WATER'S CONNECTION CODE FOR WATER SUPPLY AND SEWERAGE SERVICES.
- WS.2. DRAWINGS MUST BE SIGNED AS 'APPROVED FOR CONSTRUCTION' BY POWER AND WATER PRIOR TO COMMENCING WORKS.
- WS.3. THE DEVELOPER MUST SUBMIT THE "DEVELOPMENT WORK PERMIT" WITH ALL RELEVANT DOCUMENTATION AT LEAST SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF WORKS. THE DEVELOPER MUST CONTACT POWER AND WATER TO ARRANGE A PRE-START MEETING TO BE HELD PRIOR TO COMMENCING WORKS.
- WS.4. PRIOR TO COMMENCEMENT OF WORKS, THE CONSTRUCTOR MUST CHECK THE LOCATION OF ALL UNDERGROUND SERVICES, CONFIRM FINISHED SURFACE LEVELS, CHECK THE MATERIAL, DIAMETER ALIGNMENT, LEVEL AND LOCATION OF EXISTING PIPEWORK AT THE CONNECTION POINTS. IT IS NOT GUARANTEED THAT ALL SERVICES HAVE BEEN SHOWN ON THE DRAWINGS.
- WS.5. CHANGES REQUESTED BY ANY PARTY TO THE DESIGN OF THE WORKS DURING ANY STAGE OF THE DEVELOPMENT MUST BE ENDORSED BY THE DESIGNER/CERTIFIER WITH AMENDED DRAWINGS SUBMITTED TO POWER AND WATER FOR APPROVAL PRIOR TO THE CHANGE BEING CARRIED OUT.
- WS.6. ALL EXISTING PROPERTY SERVICES ARE TO REMAIN IN SERVICE UNTIL THE CONSTRUCTION OF THE NEW SERVICE IS COMPLETED TO THE SATISFACTION OF POWER AND WATER.
- WS.7. ALL LEVELS GIVEN ARE TO AUSTRALIAN HEIGHT DATUM (AHD) IN METRES TO THREE DECIMAL PLACES. PROJECTION SHALL BE BASED ON MGA94 MAP GRID OF AUSTRALIA ZONE 52 OR 53 COORDINATE SYSTEM.
- WS.8. ALL DIMENSIONS ARE IN MILLIMETRES AND ALL CHAINAGES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.

- WS.9. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITY PRIOR TO ANY EXCAVATION. WHERE APPLICABLE, THE CONTRACTOR MUST SEEK A WRITTEN APPROVAL FROM THE LAND OWNER TO ACCESS AND CONSTRUCT WITHIN THEIR PROPERTY. ALL APPROVALS AND PERMITS MUST BE SUBMITTED TO POWER AND WATER AT LEAST SEVEN (7) DAYS PRIOR TO EXCAVATION WORKS.
- WS.10. MINIMUM COVER TO PIPE IS 750MM IN TRAFFICABLE AREAS, 600MM IN OTHER AREAS. 1500mm COVER REQUIRED FOR THRUST BORING UNDER ROAD.
- WS.11. EMBEDMENT TYPE FOR ALL PIPES MUST BE TYPE 2A OR 2B WRAPPED IN GEOTEXTILE UNLESS NOTED OTHERWISE. ALL OTHER EMBEDMENT TYPES MUST BE ENDORSED BY THE CERTIFIER WITH SUPPORTING GEOTECHNICAL INVESTIGATION, AND APPROVED BY POWER AND WATER.
- WS.12. WATER SERVICES DN20-DN50 SHALL BE SURROUNDED BY MINIMUM 100mm COMPACTED TYPE 1A OR 1B SAND EMBEDMENT MATERIAL UNLESS SLEEVED.
- WS.13. WHEN EMBEDMENT TYPE CHANGES, A VERTICAL GEOTEXTILE BARRIER OR SAND BAGS SHALL BE INSERTED BETWEEN THE EMBEDMENT TYPES. THIS CAN BE DONE USING TRENCH-STOPS AS PER POWER AND WATER STANDARD DRAWING W1-2-21B.
- WS.14. ANY TRENCHES AT A GRADE OF 3% OR MORE WILL REQUIRE TRENCH-STOPS.
- WS.15. UNLESS NOTED OTHERWISE IN THE DRAWINGS:
 - WS.15.1. USE GENERAL OR SELECTED BACKFILL FOR ROAD RESERVES AND GENERAL AREAS
 - WS.15.2. USE 3% CEMENT STABILISED SAND FOR ROADWAYS AND TRAFFICABLE AREAS
 - WS.15.3. USE 5% CEMENT STABILISED GRAVEL FOR OPEN UNLINED DRAIN CROSSINGS AND HEAVY TRAFFICABLE AREAS.
- WS.16. REINSTATE ALL SURFACES UPON COMPLETION OF THE WORKS AS SPECIFIED OR TO MATCH EXISTING TO SATISFACTION OF THE RELEVANT AUTHORITY OR PERSONNEL.

WS.17. ONLY AUTHORISED POWER AND WATER PERSONNEL ARE PERMITTED TO UNDERTAKE ANY WORKS; OPERATE AND PHYSICALLY ACCESS LIVE ASSETS. AT NO STAGE SHALL ANY OTHER PERSONS CARRY OUT WORK ON POWER AND WATER INFRASTRUCTURE.

WS.18. THE DEVELOPER IS RESPONSIBLE FOR ALL CONNECTION FEES AND CHARGES. THE DEVELOPER MUST SUBMIT THE "REQUEST FOR CONNECTIONS" FORM AND ALLOW FOR A MINIMUM OF TWENTY-ONE (21) DAYS FOR SCHEDULING CONNECTIONS. POWER AND WATER HAVE NO OBLIGATIONS IN AVAILABILITY FOR REQUESTED CONNECTION DATE AND THE DEVELOPER IS TO NEGOTIATE ALTERNATIVE DATES WITH POWER AND WATER.

WS.19. FOR ALL AC PIPE CONNECTIONS/DISCONNECTIONS, THE PLUMBING CONTRACTOR SHALL CONTACT POWER AND WATER TO REQUEST A QUOTE FOR WORKS. POWER AND WATER'S OHS&S PROCEDURES REQUIRE THE REMOVAL OF A FULL 4 METRE LENGTH OF THE AC MAIN, COLLAR TO COLLAR (NO CUTTING).

WS.20. CERTIFIER MUST SUBMIT THE "HANDOVER REQUEST FORM" WITH ALL RELEVANT DOCUMENTATION AT LEAST SEVEN (7) DAYS PRIOR TO REQUESTED INITIAL HANDOVER INSPECTION DATE.

WS.21. ALL IDENTIFIED DEFECTS MUST BE RECTIFIED BY THE DEVELOPER WITHIN FOURTEEN DAYS (14) OF INITIAL HANDOVER DATE. A FINAL HANDOVER INSPECTION WITH POWER AND WATER MUST BE ARRANGED TO CONFIRM RECTIFICATION OF OUTSTANDING DEFECTS.

WS.22. COMMISSIONING OF GIFTED ASSET WORKS IS UNDERTAKEN BY POWER AND WATER AFTER SUCCESSFUL HANDOVER OF ASSET, RECTIFICATION OF ALL OUTSTANDING DEFECTS AND COMPLETION OF ALL LIVE CONNECTIONS TO EXISTING MAINS.

ASBESTOS CEMENT (AC) PIPE CONNECTION SHALL BE UNDERTAKEN BY POWER AND WATER CORPORATION (PWC) AT DEVELOPER'S EXPENSE.

PLUMBING CONTRACTOR IS TO CONTACT PWC TO REQUEST QUOTE FOR WORKS NECESSARY FOR THE NEW CONNECTION. PWC OH&S PROCEDURES REQUIRE REMOVAL OF AC PIPE FROM COLLAR TO COLLAR WITHOUT CUTTING. FOR THIS REASON, THE CUT-IN COST WILL BE HIGHER THAN NORMAL.

ALL ASBESTOS MATERIAL MUST BE SAFELY REMOVED FROM SITE BY APPROPRIATE SPECIALIST IN ACCORDANCE WITH PWC REQUIREMENTS AND STANDARDS.

THE LOCATIONS OF ALL EXISTING SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN



CLEARANCE, DEFECTS AND LIABILITY PERIOD

WS.23. THE DEVELOPER MUST SUBMIT THE "CLEARANCE REQUEST FORM" WITH ALL RELEVANT DOCUMENTATION AND ALLOW A MINIMUM OF FOURTEEN (14) DAYS TO OBTAIN DEVELOPMENT PERMIT CLEARANCE. ALLOW FOR AN ADDITIONAL FOURTEEN (14) DAYS TO RECTIFY ALL OUTSTANDING DEFECTS AND ISSUES.

WS.24. THE DEFECTS AND LIABILITY PERIOD OF THE ASSET WILL COMMENCE ON THE DATE WHEN DEVELOPMENT CLEARANCE WAS ISSUED BY POWER AND WATER OR DATE OF FINAL ACCEPTANCE OF ASSET.

WS.25. ALL EXTENSIONS AND SUBDIVISIONS ARE SUBJECT TO TWENTY FOUR (24) MONTH DEFECT AND LIABILITY PERIOD. ALL BUILDING DEVELOPMENTS ARE SUBJECT TO TWELVE (12) MONTH DEFECT AND LIABILITY PERIOD.

WS.26. THE DEVELOPER IS FULLY RESPONSIBLE FOR ALL COSTS TO RECTIFY DEFECTS, REPAIR AND EMERGENCY WORKS WITHIN THIS PERIOD. SUCH WORKS WILL RESULT IN AN EXTENDED DEFECTS AND LIABILITY PERIOD OF FIVE (5) YEARS.

WS.27. THE DEVELOPER MUST SCHEDULE AN OFF-MAINTENANCE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO REQUESTED INSPECTION DATE. POWER AND WATER WILL TAKE FULL RESPONSIBILITY OF ASSET AFTER ALL DEFECTS HAVE BEEN RECTIFIED AND ALL ASSOCIATED PAYMENT TO REPAIR AND EMERGENCY WORKS HAVE BEEN PAID BY THE DEVELOPER.

- W.1. WATER PIPES MUST BE BURIED PVC-M SERIES 2 CLASS 16, WITH DUCTILE IRON (DI) FITTINGS, UNLESS NOTED OTHERWISE.
- W.2. ALL DUCTILE IRON CEMENT LINED (DCL) PIPES SHALL BE CLASS PN16 FLANGED OR CLASS 35 RUBBER RING JOINTED (RRJ). ALL BURIED DCL PIPES AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE SLEEVING. MARKING ON PIPES SHALL FACE UPWARDS.
- W.3. PIPES UNDER ROAD PAVEMENT, OPEN DRAIN AND DRAINAGE STRUCTURES MUST BE DCL CLASS 16 FLANGED OR CLASS 35 TYTON-LOK, RRJ.
- W.4. PROVIDE ANCHORAGE FOR ALL VALVES, REDUCERS, AND VERTICAL BENDS. PROVIDE THRUST BLOCKS FOR ALL HORIZONTAL BENDS, TEES AND END CAPS.
- W.5. ALL SLUICE VALVES MUST BE RESILIENT SEATED FLANGED CLASS 16 WITH RAISED FLANGES, UNLESS NOTED OTHERWISE.
- W.6. ALL FLANGES MUST BE CLASS 16 RAISED TYPE COMPLYING WITH AS 4087 FIGURE B5 FOR DCL AND FIGURE B7 FOR MILD STEEL CEMENT LINED (MSCL), UNLESS NOTED OTHERWISE.
- W.7. WATER MAINS MUST BE OFFSET FROM PROPERTY BOUNDARIES A DISTANCE OF 2.4m IN ROAD RESERVES AND 1.5M IN PRIVATE PROPERTY, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.
- W.8. THE COATING ON THE FITTINGS MUST BE FULLY PROTECTED BY A FELT OR GEOTEXTILE BARRIER WHEN THE THRUST BLOCK IS POURED AND THRUST BLOCKS MUST NOT OVERLAP THE JOINT.
- W.9. WATERMAINS MUST BE LAID OVER STORM WATER, SEWER, NON-POTABLE AND RECYCLED WATER PIPES, EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS.
- W.10. NO DEFLECTION AT PVC SOCKET JOINTS ARE PERMITTED. SO-SO DI CONNECTORS (MAXIMUM OF TWO (2) DEGREES) OR DI BENDS MUST BE USED TO ACHIEVE DEFLECTIONS ON PVC PIPES.
- W.11. MARKING TAPE COLOURED GREEN AND MARKED 'WATER MAIN' SHALL BE LAID CONTINUOUSLY AND LOCATED 400mm ABOVE THE WATER MAIN.
- W.12. REFER TO POWER AND WATER'S NT SUPPLEMENTS TO WSAA CODE FOR MINIMUM VERTICAL AND HORIZONTAL CLEARANCES BETWEEN EXISTING SERVICES.
- W.13. THE TESTING OF WATER MAINS MUST BE ACCORDING TO POWER AND WATER'S TEST PROCEDURES GUIDELINES.

PRE-START MEETING
THE CERTIFYING ENGINEER TO ARRANGE PRE-START MEETING WITH POWER WATER REPRESENTATIVE AND PLUMBING CONTRACTOR.

TRENCH FOUNDATION
CONFORMANCE TEST RESULTS OF TRENCH FOUNDATION AND REMEDIAL MEASURES TO CAVITIES ARE TO BE PROVIDED TO POWER AND WATER.

INSPECTION 1
INSPECT EXCAVATED TRENCH AND VERIFY EMBEDMENT TYPE REQUIRED FOR THE SUBSOIL CONDITION. OTHER EMBEDMENT TYPES MUST BE ENDORSED WITH SUPPORTING GEOTECHNICAL REPORT AND APPROVED BY POWER AND WATER.

INSPECTION 2
VERIFY ALL CONNECTIONS ARE COMPLETED AND ISOLATED FROM EXISTING.

INSPECTION 3
VERIFY ALL PIPE WORK AND CONCRETE STRUCTURES ARE CONSTRUCTED TO DRAWINGS AND SPECIFICATIONS.

INSPECTION 4
WITNESS AND VERIFY FLUSHING, PRESSURE TESTING AND DISINFECTION TESTING TO THE SATISFACTION OF POWER AND WATER.

INSPECTION 5
VERIFY ALL AS CONSTRUCTED INFORMATION. CONDUCT HANDOVER WITH POWER AND WATER.

INSPECTION 6
VERIFY ALL OUTSTANDING DEFECTS ARE COMPLETED.

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