

GENERAL NOTES

- DESIGN BY: SMEC FOR: TCCS
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.
- REFER TO UTILITIES PACKAGE - 9.0 FOR WATER ALIGNMENT DETAILS
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COORDINATE ALL WORKS UNDERTAKEN BY THE SERVICE AUTHORITIES.
- THE CONTRACTOR MUST SECURE ALL PERMITS, ARRANGE ALL CLEARANCES AND PAY ALL FEES REQUIRED TO COMPLETE THE PROJECT, PRIOR TO THE COMMENCEMENT OF THE WORK.
- THE CONTRACTOR SHALL SET OUT THE WORKS PRIOR TO EXCAVATION. WHERE A CONFLICT OR INCONSISTENCY BECOMES APPARENT, THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT IMMEDIATELY.
- ALL DISTURBED SURFACES ARE TO BE RE-INSTATED TO ORIGINAL CONDITION, UNLESS NOTED OTHERWISE.
- ALL SERVICES CROSSING WORKS TO BE POTHOLED AND DEPETHED PRIOR TO CONSTRUCTION TO CONFIRM DESIGN.
- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL REDUNDANT EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- IF REQUIRED, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. THE CONTRACTOR IS TO GAIN APPROVAL FROM THE SUPERINTENDENT FOR TIME OF INTERRUPTION - THE CONTRACTOR IS RESPONSIBLE FOR ALL LIAISON.
- CLEARANCE AND COVER REQUIREMENTS SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY BEFORE COMMENCEMENT OF WORKS AND SHALL BE ADHERED TO AT ALL TIMES.
- CLEARANCES TO OTHER SERVICES / UTILITIES SHALL BE COMPLETED IN ACCORDANCE WITH STD-SPE-G-012.
- ALL DISUSED WATER MAINS SHALL BE EXHUMED FROM THE GROUND AND DISPOSED OFF SITE. GROUT / SAND FILLING DISUSED MAINS IS NOT PERMITTED.
- PIPES SHALL BE ADEQUATELY PROTECTED FROM TREE ROOTS WHERE PLACED WITHIN TREE PROTECTION ZONE.
- ADDITIONAL NOTES CAN BE FOUND ON ICON WATER STANDARD DRAWINGS SD-9100 TO SD-9410 AND TAKE PRECEDENCE OVER THE NOTES SHOWN ON THIS DRAWING.

EXISTING SERVICES

- THE CONTRACTOR SHALL ARRANGE FOR CURRENT DIAL-BEFORE-YOU-DIG (DBYD) SERVICES SEARCH PLANS FOR ANY EXISTING SERVICES WITHIN THE VICINITY OF THE CONSTRUCTION SITE AND SHALL MAINTAIN A MATCH COPY OF THESE PLANS ON SITE AT ALL TIMES DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- ANY SERVICE THAT IS IDENTIFIED ON SITE THAT IS NOT SHOWN WITHIN THESE PLANS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT FOR COORDINATION WITH THE DESIGN SHOWN WITHIN THESE PLANS. NO WORK SHALL PROCEED PAST THIS POINT UNTIL APPROVAL IS GIVEN BY THE SUPERINTENDENT TO PROCEED.
- ANY DAMAGE CAUSED TO ANY EXISTING SERVICE DURING THE CONSTRUCTION PERIOD OF THIS PROJECT SHALL BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT AND SUCH DAMAGE MADE GOOD AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE SUPERINTENDENT AND THE ASSET OWNER.
- PROTECTION OF ANY UTILITIES AND SERVICES REQUIRED TO INSTALL THE WATER MAINS SHALL BE UNDERTAKEN BY THE CONTRACTOR.

OVERHEAD POWER LINES

- THE CONTRACTOR SHALL NOT DISTURB THE FOOTINGS OF EXISTING STREET LIGHTING AND POWER POLES WHICH ARE NOT TO BE RELOCATED.
- THE CONTRACTOR IS TO DEMONSTRATE CARE WHEN OPERATING VEHICLES AND MACHINERY IN THE VICINITY OF OVERHEAD POWER LINES.

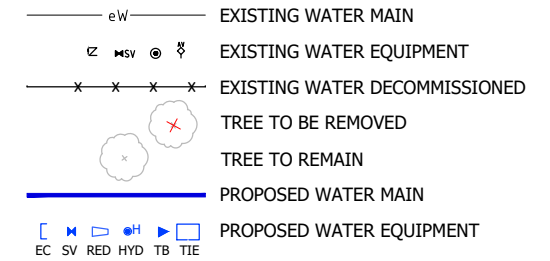
WATER SUPPLY AND SERVICES NOTES

- ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS (ED 1, REV 0, SEPT 2002) AND THE CURRENT ICON WATER, WATER AND SEWERAGE SERVICE STANDARDS AND GUIDELINES.
- ALL WATER SERVICE CONNECTIONS ARE TO BE POTHOLED AND DEPETHED PRIOR TO CONSTRUCTION TO CONFIRM DESIGN.
- EXISTING SERVICES HAVE BEEN PLOTTED FROM AVAILABLE DATA. THE PRINCIPAL NOR THE CONSULTANT GUARANTEES THE ACCURACY OF THIS INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES AND SUBMITTED TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- ALL SURVEY SET-OUT SHALL BE UNDERTAKEN BY A REGISTERED SURVEYOR.
- ALL EXISTING AND FINISHED SURFACE LEVELS SHOWN ARE TO THE AUSTRALIAN HEIGHT DATUM (AHD).
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. WHERE NECESSARY, MECHANICAL EXCAVATION IS TO BE AVOIDED AND HAND EXCAVATION RESORTED TO. NO HEAVY COMPACTION IS TO OCCUR ABOVE EXISTING SERVICES.
- WHERE NEW WORKS ABOUT EXISTING WORK, A SMOOTH TRANSITION/INTERFACE FREE FROM ABRUPT CHANGES IS TO BE OBTAINED.
- EXISTING REFERENCE MARKS SHOWN HAVE NOT BEEN FIELD-CHECKED.
- EXISTING BENCH MARKS ARE NOT TO BE DISTURBED.
- ALL CONNECTIONS OF NEW WATER MAINS TO EXISTING WATER MAINS ARE TO BE UNDERTAKEN BY ICON WATER AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY PROTECTION OR SUPPORT OF EXISTING SERVICES DURING CONSTRUCTION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVICE PROVIDER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING LENGTHS AND BEND ANGLES PRIOR TO ORDERING MATERIALS. ALL MATERIALS USED FOR THE CONSTRUCTION OF THE WATERMAIN SHALL COMPLY WITH RELEVANT AUSTRALIAN STANDARDS AND SHALL BE ACCEPTABLE TO ICON WATER.
- PROTECTIVE COATINGS SHALL BE IN ACCORDANCE WITH WSA 201 AS AMENDED / SUPPLEMENTED BY ICON WATER SPECIFICATION STD-SPE-G-005.
- FOR STANDARD DETAILS REFER ICON WATER STANDARD DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE FOR TRENCHING IN ALL CLASSES OF MATERIAL, INCLUDING SHORING, BENCHING AND DEWATERING AS REQUIRED.
- PRIOR TO PIPE INSTALLATION THE TRENCH BED AND WALLS SHALL BE INSPECTED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
- COVER LEVELS GIVEN ARE TO BE USED AS A GUIDE ONLY. ACTUAL COVER LEVELS ARE TO DETERMINED ON SITE.
- WORK AS EXECUTED DRAWINGS ARE TO BE SUBMITTED TO ICON WATER PRIOR TO CONNECTION TO ICON WATER MAINS. WORK AS EXECUTED DRAWINGS ARE TO BE PREPARED IN ACCORDANCE WITH ICON WATER REQUIREMENTS.
- ALL DISTURBED AREAS ARE TO BE REINSTATED TO MATCH ADJACENT AREAS.
- NO CONNECTIONS SHALL BE MADE WITHIN 2xDN OF AN EXISTING SP-SO JOINT CONNECTOR.
- ALL PIPE MATERIALS SHOULD BE FROM ICON WATER APPROVED PRODUCTS LIST.

PIPELINE CONSTRUCTION

- ALL PIPE OUTSIDE DIAMETERS (OD) EXPRESSED IN MILLIMETRES.
- TRENCH, PIPE PLACEMENT, EMBEDMENT AND BACKFILL DIMENSIONS AS PER DRAWINGS SD-2106 AND SD-2107.
- ALL DUCTILE IRON FITTINGS ON MAINS SHALL BE PN35 FUSION BONED POLYMER IN ACCORDANCE WITH AS/NZS 4158:2003.
- ALL PIPE FLANGES AND GASKETS SHALL COMPLY WIT AS/NZS 4087.2011 - PN16.
- ALL BURIED DICL PIPES AND FITTINGS TO BE WRAPPED WITH POLYETHYLENE SLEEVING COMPLYING WITH AS3680.
- ALL FLANGES SHALL BE RAISED FACE, PN16 TO AS4087. GASKETS TO BE PROVIDED BETWEEN ALL FLANGES. GASKETS SHALL BE IN ACCORDANCE WITH AS4087 TABLE C1.
- MINIMUM PIPE COVER AS PER PIPE COVER TABLE ON STANDARD DRAWING SD-2016.
- ALL BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL 316.
- ALL PE PIPE SHALL BE PN16 PE100 SDR11 MANUFACTURED TO AS/NZS 4130.2009.
- ALL HDPE PIPES SHALL BE BUTT WELDED UNLESS DEPICTED OTHERWISE ON DRAWINGS OR AS APPROVED BY THE SUPERINTENDENT.
- ALL HDPE PIPE SHALL BE DE-BEADED.
- DICL TO HDPE CONNECTIONS SHALL HAVE FIBRE GASKETS, DICL TO DICL CONNECTIONS SHALL HAVE EPDM GASKETS.
- INSULATING GASKETS, BOLT SLEEVES AND WASHERS SHALL PROVIDE ELECTRICAL ISOLATION BETWEEN DISSIMILAR METALS.
- REFER TO THE THRUST RESTRAINT SCHEDULE. CONSTRUCT CONCRETE THRUST RESTRAINTS AS PER DRAWINGS SD-5001, SD-5002 AND SD-5003.
- CONSTRUCT TRENCH STOP, BULKHEAD AND CONCRETE ENCASMENT AS PER DRAWINGS SD-2103 AND SD-2014 WHERE NO DETAILS ARE PROVIDED IN DESIGN DRAWINGS.
- PIPELINES TO MAINTAIN A MAXIMUM 3 DEGREE DEFLECTION TO ENSURE HYDRANTS AND VALVES ARE INSTALLED VERTICALLY TO FINISH SURFACE LEVELS.

LEGEND



PIPE SCHEDULE

SIZE	MATERIAL	EXISTING MATERIAL	LENGTH (m)
DN100	DICL PN35	CI 110m	70
DN225	DICL PN35	CI 165m	165
DN300	DICL PN35	CI 8m	8
DN600	DICL PN35	CI 100m	100
DN900	MSCL OD960 8PL	MS OD960 7m	7

DESIGN

D	ICON WATER RESUBMISSION	07.05.2024	A.L.	A.C.	
C	ICON WATER RESUBMISSION	30.11.2023	A.L.	A.C.	
B	ISSUE FOR APPROVAL	11.11.2022	A.L.	A.C.	
A	ISSUE FOR REVIEW & COMMENT	16.09.2022	A.L.	A.C.	
No.	REVISION	DATE	ENG CHECKED	VERIFIED	DESIGN AUTH



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Contractor's Drawing No.:	3002750-WS-001		
Icon Water Consented:			
Icon Water Design Authority:			

WILLIAM HOVELL DRIVE DUPLICATION
NOTES AND LEGEND

Scale:	AS SHOWN	Date:		Sheet No.:	
Project No.:	AS SHOWN	Tender No.:	DR		
A1	3002750-WS-001	Rev	D		