

UTILITIES NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT 'MUNICIPAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS' (MITS) AND ICON WATER SUPPLY AND SEWER MAINS TO COMPLY WITH WSA 02 GRAVITY SEWERAGE CODE OF AUSTRALIA & WSA 03 WATER SUPPLY CODE OF AUSTRALIA AS AMENDED BY ICON WATER IN SUPPLEMENTS SPE-G011 AND 012 RESPECTIVELY.
- EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. IT IS THE CONTRACTORS RESPONSIBILITY TO ESTABLISH THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES.
- PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONFIRM THE POSITION AND LEVEL OF ALL EXISTING SERVICE CONNECTION POINTS AND NOTIFY THE PAP IMMEDIATELY IF A DISCREPANCY IS FOUND.
- ALL SURVEY SET-OUT SHALL BE UNDERTAKEN BY A REGISTERED SURVEYOR
- ALL EXISTING AND FINISHED SURFACE LEVELS ARE TO THE AUSTRALIAN HEIGHT DATUM (AHD).
- WHERE NEW WORK ABUTS EXISTING WORK THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- WORKS CONDUCTED WITHIN THE TREE PROTECTION ZONE TO BE DONE UNDER THE SUPERVISION AND OBSERVATION OF A QUALIFIED ARBORIST. REFER TO TREE MANAGEMENT PLANS.
- ALL DIMENSIONS ARE IN METRES UNLESS SHOWN OTHERWISE. ALL LEVELS, METERAGES, STATIONS, GEOMETRY AND COORDINATES ARE EXPRESSED IN METRES.
- OTHER PACKAGES PROPOSED DESIGNS ARE SHOWN INDICATIVELY FOR INFORMATION.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THE ENGINEER'S DRAWINGS SHALL NOT BE SCALED.
- STATIONS AND REDUCED LEVELS ARE IN METRES UNLESS OTHERWISE NOTED.
- REDUCED LEVELS ARE RELATED TO THE AUSTRALIAN HEIGHT DATUM.
- THE CO-ORDINATE SYSTEM USED IN ALL DRAWINGS IS THE CANBERRA MAP GRID (STROMLO).
- THE CO-ORDINATES SHOWN ARE IN METRES UNLESS OTHERWISE NOTED.
- THE LOCATION OF EXISTING SERVICES DEPICTED ON THE DRAWINGS IS INDICATIVE ONLY. THE CONSTRUCTION TEAM IS REQUIRED TO VERIFY THE LOCATION OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.
- EXISTING TELECOMMUNICATION ASSETS THAT ARE ABANDONED TO BE DEMOLISHED AND EXHUMED WITHIN 1.5m BELOW EXISTING LEVEL UNLESS OTHERWISE STATED.
- CONTRACTOR TO REFER TO CIVIL AND LANDSCAPE DESIGN PACKAGE TO CONFIRM FINAL SURFACE LEVELS.
- ALL WORKS ARE AT CONTRACTOR'S EXPENSE UNLESS NOTED OTHERWISE.

TELECOMMUNICATION GENERAL NOTES

- ALL WORKS SHALL COMPLY WITH THE CURRENT EDITION OF RELEVANT AUSTRALIAN STANDARDS, COMMUNICATIONS ALLIANCE, AUSTRALIAN COMMUNICATIONS AND MEDIA AUTHORITY TECHNICAL STANDARDS, STANDARDS AUSTRALIA COMMUNICATIONS CABLING MANUAL, AND THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
- ALL EXISTING UNDERGROUND SERVICES WITHIN THE PROPOSED WORK ZONE SHALL BE IDENTIFIED VIA BEFORE YOU DIG AUSTRALIA (BYDA), TCCS STANDARD DRAWINGS, AND ALL OTHER RELEVANT PARTIES OR SERVICES.
- ALL PITS AND CONDUITS MUST BE INSTALLED WITHIN THE DESIGNATED TELECOMMUNICATIONS ALIGNMENT ESTABLISHED BY STATE AND FEDERAL GOVERNMENTS, STREET OPENING CONFERENCES, LOCAL COUNCILS OR IN ANY SHARED TRENCH.
- WHERE POSSIBLE, CONDUITS (INSTALLED IN TRENCHES) SHOULD BE INSTALLED IN A STRAIGHT LINE VERTICALLY AND HORIZONTALLY BETWEEN PITS AND AT A GRADE WHICH WILL ALLOW DRAINAGE TO AT LEAST ONE PIT OR HUMPED NEAR THE CENTRE OF THEIR LENGTH TO ALLOW DRAINAGE TO BOTH PITS. A GRADE IN EXCESS OF 1 IN 300 IS NORMALLY SUFFICIENT.
- NEW PVC OR PE CONDUITS ARE TO BE INSTALLED BETWEEN PITS/MANHOLES, PROPERTY ENTRY POINTS (PEP) OR BUILDING ENTRY POINTS (BEP). ALL CONDUITS ARE TO BE INSPECTED BY THE CONSTRUCTOR PRIOR TO INSTALLATION TO ENSURE THEY ARE FREE OF DEFECTS AND THE CONDUIT ENDS SHALL BE SMOOTH AND CLEANLY CUT.
- TRENCHING FOR CONDUITS SHALL BE IN ACCORDANCE WITH THE UNDERGROUND SERVICES IN A SHARED TRENCH AGREEMENT BETWEEN THE RESPECTIVE SERVICE AUTHORITIES. THESE SHALL BE SUFFICIENT FULLY EXCAVATED TRENCHES AND MAINTAINED AHEAD OF ALL INCOMPLETE CONDUIT INSTALLATION WORK TO AVOID UNDERGROUND OBSTRUCTION. CONDUIT ROUTES ARE TO BE DESIGNED TO MINIMISE THE NUMBER OF BENDS.
- UNLESS OTHERWISE SPECIFIED, DO NOT EXCAVATE BY MACHINE WITHIN ONE METRE OF EXISTING SERVICES OR WITHIN THREE METRES OF EXISTING TREES MARKED TO REMAIN.
- ALL PIPES AND FITTINGS SHALL BE SUPPORTED DURING TRANSPORTATION (INCLUDING UNLOADING, HANDLING AND INSTALLATION) IN A MANNER RECOMMENDED BY THE MANUFACTURER. THE PIPES AND FITTINGS SHOULD BE INSPECTED INTERNALLY AND EXTERNALLY UPON DELIVERY TO ENSURE NO DAMAGE HAS OCCURRED.
- ALL CONDUITS SHALL BE MANDREL DRAWN AND INSTALLED WITH DRAW ROPES.
- SPARE PIPES SHALL BE CLEARED, FITTED WITH A STAINLESS STEEL DRAW WIRE SUITABLY ANCHORED AT EACH END OF THE PIPE AND THEN SEALED WITH PROPRIETY END CAPS TO PREVENT INGRESS OF DIRT & VERMIN.
- ALL PITS SHALL HAVE SCEC ENDORSED LOCKING LIDS

LEGEND

EXISTING

	CADASTRAL BOUNDARY
	FENCE
	KERB / EDGE OF BITUMEN
	UNDERGROUND LOW VOLTAGE POWER LINE
	OVERHEAD LOW VOLTAGE POWER LINE
	UNDERGROUND HIGH VOLTAGE POWER LINE
	OVERHEAD HIGH VOLTAGE POWER LINE
	STREETLIGHT CABLE
	TELECOMMUNICATIONS ICON
	TELECOMMUNICATIONS NBN
	TELECOMMUNICATIONS OPTUS
	TELECOMMUNICATIONS TRANSACT
	TELECOMMUNICATIONS TRANSACT - OVERHEAD
	TELECOMMUNICATIONS TELSTRA
	WATER
	SEWER
	STORMWATER PIPE, MANHOLE & SUMP
	DDTS
	SHARED SERVICES TRENCHES
	UTILITIES LOCATION TO BE CONFIRMED
	UTILITIES EASEMENT
	ACCESS ROAD BY OTHERS
	BICENTENNIAL NATIONAL TRAIL
	DEEP CREEK ALIGNMENT
	SWALE

EXISTING TO BE REMOVED OR ABANDONED

	UNDERGROUND LOW VOLTAGE POWER LINE
	LOW VOLTAGE OVERHEAD POWER LINE
	UNDERGROUND HIGH VOLTAGE POWER LINE
	OVERHEAD HIGH VOLTAGE POWER LINE
	STREETLIGHT CABLE
	TELECOMMUNICATIONS ICON
	TELECOMMUNICATIONS NBN
	TELECOMMUNICATIONS OPTUS
	TELECOMMUNICATIONS TRANSACT
	TELECOMMUNICATIONS TRANSACT - OVERHEAD
	TELECOMMUNICATIONS TELSTRA
	WATERMAIN Ø100 TO BE DECOMMISSIONED
	WATERMAIN Ø150 TO BE DECOMMISSIONED
	WATERMAIN Ø600 TO BE DECOMMISSIONED
	WATERMAIN Ø675 TO BE DECOMMISSIONED
	WATERMAIN Ø9000 TO BE DECOMMISSIONED
	STORMWATER PIPES/PITS TO BE REMOVED
	DDTS TO BE DECOMMISSIONED

PROPOSED WORKS

	CONSTRUCTION BOUNDARY
	CONTROL LINE
	BARRIER KERB / BARRIER KERB & GUTTER
	UNDERGROUND LOW VOLTAGE POWER LINE
	OVERHEAD LOW VOLTAGE POWER LINE
	UNDERGROUND HIGH VOLTAGE POWER LINE WITH HAUL PIT AND 4 WAY SWITCH STATION
	OVERHEAD HIGH VOLTAGE POWER LINE
	STREETLIGHT CABLE
	TELECOMMUNICATIONS ICON
	TELECOMMUNICATIONS NBN
	TELECOMMUNICATIONS OPTUS
	TELECOMMUNICATIONS TRANSACT
	TELECOMMUNICATIONS TRANSACT - OVERHEAD
	TELECOMMUNICATIONS TELSTRA
	Ø100 WATERMAIN
	Ø150 WATERMAIN
	Ø600 WATERMAIN
	Ø675 WATERMAIN
	Ø900 WATERMAIN
	SW PIPE AND STRUCTURES
	132kV PROPOSED UTILITY BY OTHERS
	SHARED SERVICES TRENCHES
	DDTS
	PEDESTAL
	CONDUIT
	POTHOLING MARKER
	UTILITIES TO BE UNDERBORED
	FENCE
	DDTS CONDUIT PIT
	CCTV
	OTHER TELECOMMUNICATION PITS
	ELECTRICAL CABLE JOINT PIT

CONCRETE WORKS

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, THE STANDARDS ASSOCIATION AUSTRALIA, STANDARDS CITED IN AS3600, THE DRAWINGS AND THE SPECIFICATION
- STRENGTH GRADE OF CONCRETE SHALL BE : 32 MPa UNLESS NOTED OTHERWISE
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
- WELDING OR SPLICES IN REINFORCEMENT SHALL BE USED ONLY IN POSITIONS APPROVED BY THE ENGINEER.
- CONCRETE CURING SHALL BE IN ACCORDANCE WITH AS3600. CURING SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS AND SHALL BE CONTINUED FOR A MINIMUM OF SEVEN DAYDS BY AN APPROVED PROPRIETARY COMPOUND OR BY KEEPING CONTINUOUSLY WET.
- FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT APPROVAL.
- FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH FIG.13.2.4 OF AS3600.
- HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH AS3600 UNO.
- ALL CHEMICAL ANCHORS SHALL BE EITHER 'CHEMSET'; BY "RAMSET" WITH THE GLASS CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS OR HILTI HVU ADHESIVE ANCHOR WITH FOIL CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTION.
- ALL CHEMICAL ANCHORS SHALL BE HOT DIPPED GALVANIZED

150 mm ON ORIGINAL
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0

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