

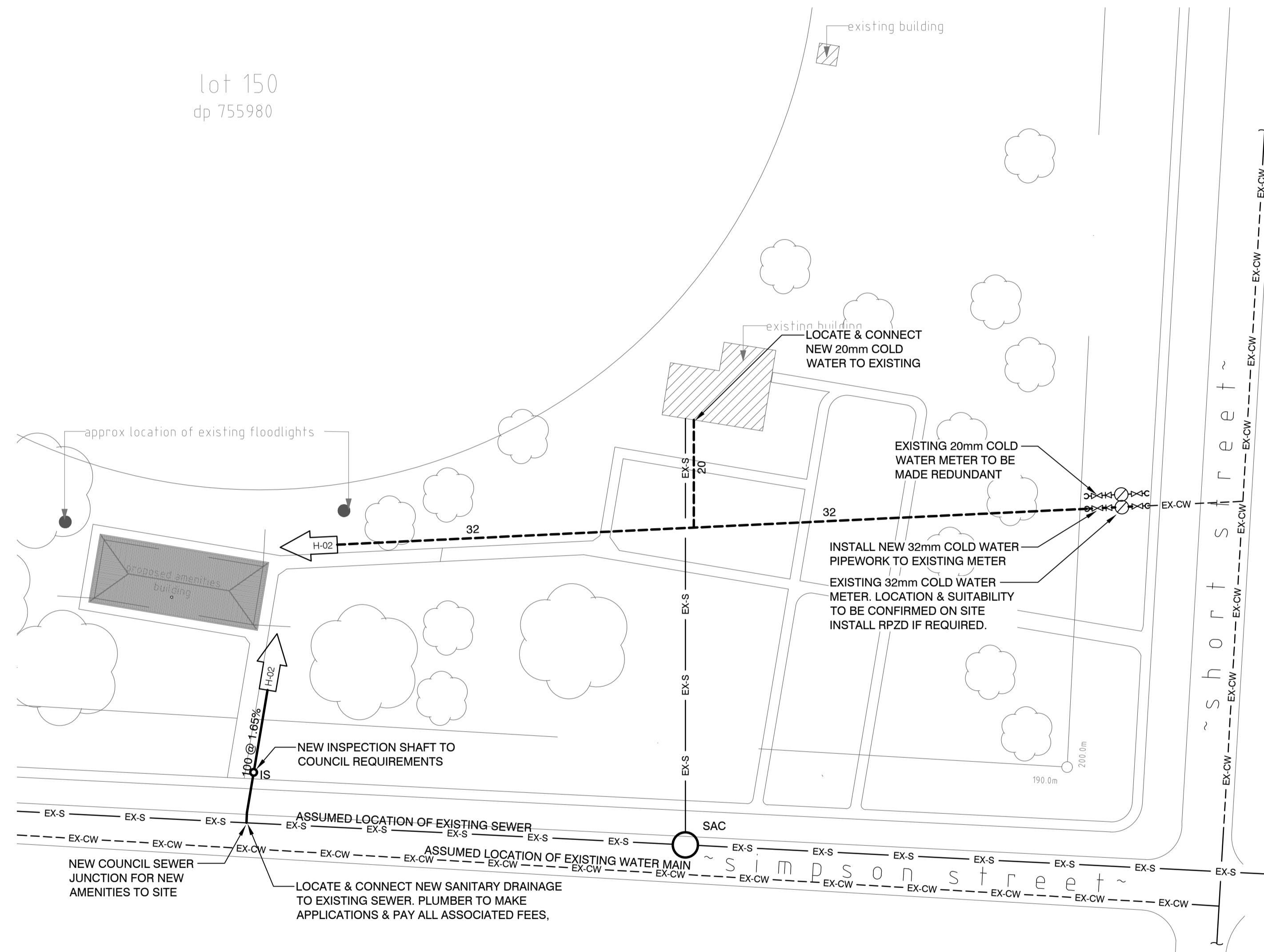
# HYDRAULIC SERVICES

## FOR BOGGABILLA SPORTS FIELD AMENITIES

### DRAWING SCHEDULE:

H-01	LEGEND, NOTES, DRAWING SCHEDULE & SITE PLAN	1:500
H-02	WATER & SANITARY DRAINAGE LAYOUTS	1:100
H-03	ROOF LAYOUT	1:100
H-04	DETAILS	N.T.S

lot 150  
dp 755980



### NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN A 'DIAL BEFORE YOU DIG' TO ASCERTAIN THE FULL EXTENT OF EXISTING SERVICES SURROUNDING THE SUBJECT PROPERTY. PRIOR TO ANY EXCAVATION THE RELEVANT AUTHORITIES eg TELSTRA OPTUS, AGILITY etc. ARE TO BE NOTIFIED OF ALL WORKS.
- ALLOW TO PAY ALL FEES & CHARGES FOR ALL AUTHORITIES RELATING TO ALL WORKS DESIGNED & SPECIFIED.
- IT IS THE HYDRAULIC CONTRACTORS RESPONSIBILITY TO ENGAGE A SUITABLE QUALIFIED CONTRACTOR TO CARRY OUT A THOROUGH GROUND SEARCH FOR EXISTING SERVICES AROUND AND IN THE PROPOSED BUILDING FOOTPRINT. NOTIFY THE SUPERINTENDENT IMMEDIATELY IF ADDITIONAL SERVICES TO THAT DOCUMENTED ARE LOCATED. THIS IS TO BE CARRIED OUT PRIOR TO ANY WORKS BEING COMMENCED.
- ALL HOT, WARM & COLD WATER ISOLATION VALVES SHOWN ARE TO BE LOCATED IN THE CEILING VOID COMPLETE WITH ACCESS PANEL OR IN SERVICE DUCTS.
- ALL EXPOSED PIPEWORK TO BE CHROME PLATED OR PAINTED AS PER SPECIFICATION.
- ALLOW TO PREPARE & SUPPLY DETAILED 'AS INSTALLED' DRAWINGS & MAINTENANCE MANUALS FOR ALL ASSOCIATED WORKS AS DETAILED IN THE SPECIFICATION.
- ALL HYDRAULIC SERVICES PIPEWORK, EQUIPMENT & VALVES SHOULD BE LABELED TO ENABLE THEM TO BE CLEARLY IDENTIFIED. LOCATIONS OF LABELS TO BE APPROVED BY ARCHITECT.
- ALL HOT/WARM WATER PIPEWORK TO BE INSULATED WITH THERMOTEC INSULATION OR EQUIVALENT WITH R-VALUE = 0.3 IN ACCORDANCE WITH AS/NZS 3500.4. REFER TO SPECIFICATION FOR EXACT REQUIREMENTS.
- ALL DISRUPTIONS TO EXISTING SERVICES FOR NEW CONNECTIONS ARE TO BE COORDINATED ON SITE WITH THE PROJECT SUPERINTENDENT.
- ALL EXTERNAL HOSE TAPS TO BE ENWARE KEY OPERATED HOSE TAPS FITTED WITH VACUUM BREAKERS.
- ALL LEVELS & LOCATIONS SHOWN ON DRAWINGS FOR EXISTING PITS, SERVICES, SEWER ACCESS CHAMBERS ARE TO BE CONFIRMED ON SITE PRIOR TO ANY WORKS BEING CARRIED OUT.
- ALL SERVICES INSTALLED ADJACENT THE BUILDING ARE TO BE LOCATED OUTSIDE THE ZONE OF INFLUENCE AS PER AS3500.
- ALL LOCATIONS OF WATER POINTS FOR INTERNAL FITOUT SHOWN ON THESE PLANS ARE FOR CLARITY ONLY. FINAL LOCATIONS ARE TO BE DETERMINED USING ARCHITECTURAL 1:50 INTERNAL LAYOUTS & ELEVATIONS.
- EXCAVATE, LOCATE & CONNECT TO EXISTING SEWER ACCESS CHAMBER.
- ENSURE ALL FIXTURES, FITTINGS, BRACKETS, FASTENERS, ANGLES, MATERIAL SELECTION ETC, ARE SUITABLE TO THE COASTAL ENVIRONMENT.

### FIXTURE LIST

FIXTURES	No.	FIXTURE UNITS SANITARY	LOADING UNITS WATER	SANITARY TOTAL FIXTURE UNITS	WATER TOTAL FIXTURE UNITS
WATER CLOSET	12	4	2	48	24
URINAL (WALL-HUNG, STALL EACH 600mm)	3	1	2	3	6
BASIN	13	1	1	13	13
SHOWER	8	2	2	16	16
HOSE TAPS (20mm)	2	-	8	-	16
<b>TOTAL</b>				80 FIXTURE UNITS	75 0.83 L/S
PIPE SIZE				100	32
METER SIZE					X

THIS CHART IS FOR HYDRAULIC CALCULATION PURPOSES ONLY. IT IS NOT TO BE USED AS A FIXTURE SCHEDULE

### LEGEND

PIPEWORK	ABBREVIATIONS
--- EX-CW --- COLD WATER - EXISTING	CO CLEAROUT.
--- COLD WATER - NEW	CPBSC CHROME PLATED BRASS SCREWED CLEAROUT.
--- HOT WATER - NEW	CS CLEANERS SINK.
--- WARM WATER - NEW	DCV DOUBLE CHECK VALVE (TESTABLE).
--- RW --- RAINWATER - NEW	DUCV DUAL CHECK VALVE.
--- EX-S --- SANITARY - EXISTING	ESAC EXISTING SEWER ACCESS CHAMBER.
--- SANITARY - NEW	FL FLOOR LEVEL.
--- VENT PIPE OFFSET - NEW	FSL FINISHED SURFACE LEVEL.
	FU FIXTURE UNITS.
	FW FLOOR WASTE.
	GD GRATED DRAIN.
	Hb HANDBASIN.
	HT HOSE TAP.
	HWC HUNTER WATER CORPORATION.
	HWU HOT WATER UNIT.
	IL INVERT LEVEL.
	IO INSPECTION OPENING.
	IS INSPECTION SHAFT.
	RL RELATIVE LEVEL.
	RPZD REDUCED PRESSURE ZONE DEVICE.
	RWO RAIN WATER OUTLET.
	RV REFLUX VALVE.
	Shr SHOWER.
	SW SEALED FLOOR WASTE.
	SL SURFACE LEVEL.
	T TUBS.
	TD TUNDISH.
	TMV THERMOSTATIC MIXING VALVE.
	UR URINAL.
	Vb VANITY BASIN.
	VP VENT PIPE.
	Wc WATER CLOSET.

SYMBOLS	MATERIALS
○ SAC SEWER ACCESS CHAMBER	CU COPPER.
○ IO INSPECTION OPENING	CCL CAST IRON CEMENT LINED.
○ IS INSPECTION SHAFT	DCL DUCTILE IRON CEMENT LINED.
○ RL RELATIVE LEVEL	GAL GALVANISED MILD STEEL.
○ RPZD REDUCED PRESSURE ZONE DEVICE	HDPE HIGH DENSITY POLYETHYLENE.
○ RWO RAIN WATER OUTLET	PE-X CROSS-LINED POLYETHYLENE.
○ RV REFLUX VALVE	RCP REINFORCED CONCRETE PIPE.
○ Shr SHOWER	uPVC UNPLASTICISED POLYVINYL CHLORIDE.
○ SW SEALED FLOOR WASTE	VCP VITRIFIED CLAY PIPE.
○ SL SURFACE LEVEL	
○ T TUBS	
○ TD TUNDISH	
○ TMV THERMOSTATIC MIXING VALVE	
○ UR URINAL	
○ Vb VANITY BASIN	
○ VP VENT PIPE	
○ Wc WATER CLOSET	

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19.7.18	1	FOR REVIEW
Date	Issue	Reason for Issue

