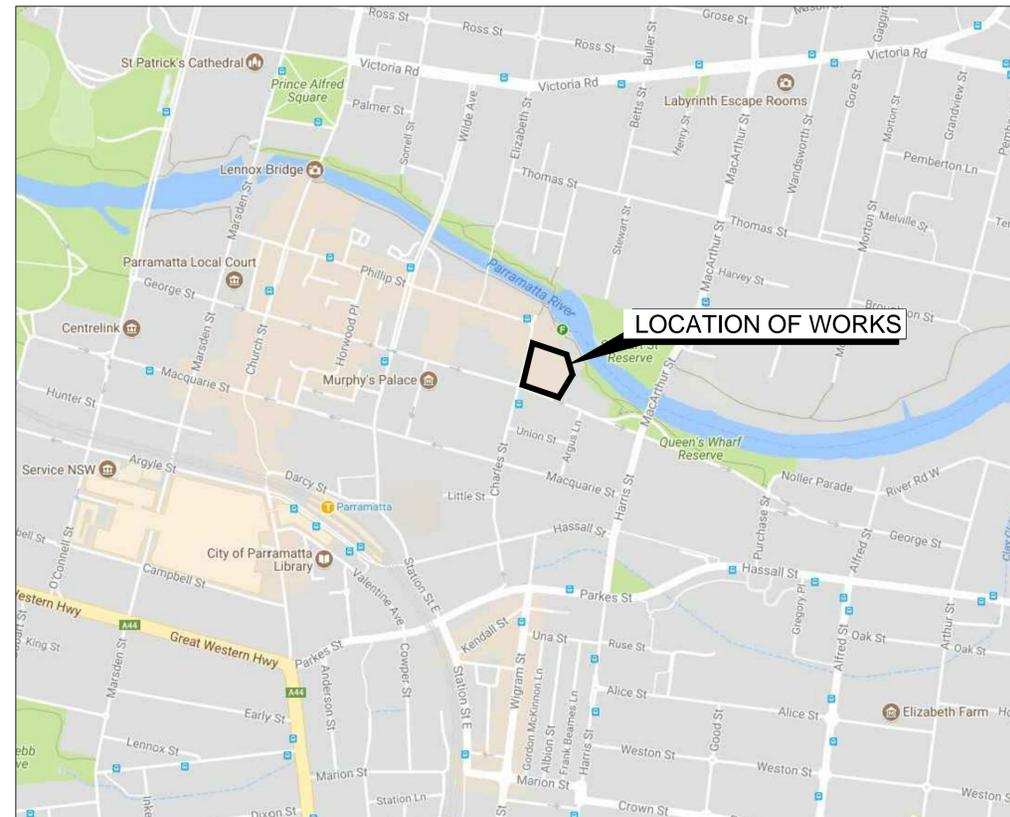


180 GEORGE STREET PARRAMATTA CIVIL WORKS PACKAGE

DRAWING LIST

DAC001	COVER SHEET AND LOCALITY PLAN	DAC060	PAVEMENT, SIGNAGE AND LINEMARKING PLAN
DAC002	NOTES AND LEGENDS	DAC090	SEDIMENTATION AND EROSION CONTROL PLAN
DAC003	GENERAL ARRANGEMENT PLAN	DAC091	SEDIMENTATION AND EROSION CONTROL DETAILS
DAC005	TYPICAL SECTIONS		
DAC010	SITWORKS DETAILS		
DAC015	STORMWATER DETAILS		
DAC020	SITWORKS AND STORMWATER PLAN SHEET 1		
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DAC025	CONTROL LINE SETOUT PLAN		
DAC030	PUBLIC DOMAIN LONGSECTION (MC01) SHEET 1		
DAC031	PUBLIC DOMAIN LONGSECTION (MC01) SHEET 2		
DAC032	BOUNDARY LONGSECTION (MC02) SHEET 1		
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DAC040	PUBLIC DOMAIN CROSS SECTIONS SHEET 1		
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DAC050	OSD TANK 1 PLAN AND DETAILS		
DAC051	OSD TANK 1 SECTIONS		
DAC052	OSD TANK 2 PLAN AND DETAILS		
DAC053	OSD TANK 2 SECTIONS		
DAC055	STORMWATER CATCHMENT PLAN		



LOCALITY PLAN
N.T.S



Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
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Scales	N.T.S.	Drawn G.J.	
		Designed G.J.	
Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

File: DAC001.dwg

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Project

180
GEORGE STREET
PARRAMATTA

Title

COVER SHEET AND
LOCALITY PLAN

Drawing No.	Project No.	Issue
DAC001	18-538	B

SITWORKS NOTES

- ORIGIN OF LEVELS-- REFER SURVEY NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- ASPHALTIC CONCRETE SHALL CONFORM TO R.T.A. SPECIFICATION R116.
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNBOUND), R.T.A. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
- AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.T.A. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
- WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
- ALL SERVICE FITTINGS AND LIDS TO BE ADJUSTED TO SUIT NEW LEVELS IN ACCORDANCE WITH COUNCIL AND AUTHORITY REQUIREMENTS.

STORMWATER DRAINAGE NOTES

- STORMWATER DESIGN CRITERIA:
 - AVERAGE RECURRENCE INTERVAL:
 - 1:100 YEARS- ROOFED AREAS TO SURCHARGE PIT
 - 1:20 YEARS- EXTERNAL PAVEMENTS
 - RAINFALL INTENSITIES:
 - TIME OF CONCENTRATION: 5 MINUTES
 - 1:100 YEARS= 269.5 mm/hr
 - 1:20 YEARS= 210.7 mm/hr
 - RUNOFF COEFFICIENTS:
 - ROOF AREAS: C₁₀₀ =1.0
 - EXTERNAL PAVEMENTS: C₂₀ =1.0
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
- ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
- PIPES TO BE INSTALLED TO TYPE HS3 (ROAD) HS2 (LOTS) SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
- ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
- PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996.
- ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE B.2.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED DURING THIS PROCESS. ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

GENERAL NOTES

- ALL WORKS ARE TO BE IN ACCORDANCE WITH CITY OF PARRAMATTA COUNCIL'S "TECHNICAL SPECIFICATION" IF THERE IS ANY CONFLICT BETWEEN AT&L AND CITY OF PARRAMATTA SPECIFICATIONS, CITY OF PARRAMATTA COUNCIL SHALL TAKE PRECEDENCE.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY JBW SURVEYORS PTY LTD, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS:

GENERAL NOTES

CAD DIGITAL DATA : JBW SURVEYORS PTY LTD

THE INFORMATION SUPPLIED IN THIS DATA FILE IS SUPPLIED ON THE CONDITION THAT THESE GENERAL NOTES ARE ALWAYS STORED WITH THE SUPPLIED CAD DRAWING, & IF THE DATA IS PROVIDED TO ANY PARTY ON ANY FORM OF HARD COPY OR COMPUTER MEDIA THEN THESE GENERAL NOTES WILL ALSO BE A PART OF THAT HARD MEDIA COPY OR COMPUTER MEDIA DATA;

ORIGIN OF LEVELS (SCIMS-DATED 19/12/2017)
SSM 59231 RL 6.656 A.H.D VIDE SCIMS

THE GRID SYSTEM SHOWN RELATES TO THE MAPPING GRID OF AUSTRALIA (MGA), THE ORIGIN OF WHICH IS:
SSM 46984 E=315767.580 N=6256710.982 CLASS B ORDER 2
SSM 59231 E=316020.980 N=6256489.508 CLASS B ORDER 2
AS SUPPLIED BY SCIMS DATED 19/12/2017

PERIMETER BOUNDARIES ONLY HAVE BEEN SURVEYED. INTERNAL STRATUM BOUNDARIES AT LEVEL 3 (STREET LEVEL) HAVE BEEN COMPILED FROM DP1082194 AND ARE SUBJECT TO SURVEY. ALL BOUNDARIES SHOWN ARE SUBJECT TO REGISTRATION OF SUBSEQUENT SURVEY PLANS AT NSWRLS.

THE BOUNDARIES SHOULD BE SURVEYED AND MARKED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORK

IMPROVEMENTS AND FEATURES SHOWN ON OR NEAR THE BOUNDARIES ARE INDICATIVE ONLY

THE POSITION OF IMPROVEMENTS AND FEATURES HAVE BEEN LOCATED FOR PLOTTING PURPOSES ONLY

VISIBLE SERVICES THAT HAVE BEEN SURVEYED ARE DENOTED BY ABBREVIATIONS THAT ARE REFERENCED IN THE SYMBOLS TABLE

SERVICES THAT ARE DENOTED "DBYD" HAVE BEEN PLOTTED FROM INFORMATION PROVIDED FROM 'DIAL BEFORE YOU DIG' AND HAVE NOT BEEN SURVEYED

THE RECORDS OF THE SERVICE AUTHORITIES SHOULD BE INVESTIGATED AS TO THE LOCATION OF SERVICES PRIOR TO THE COMMENCEMENT OF ANY DETAILED DESIGN OR CONSTRUCTION WORKS.

UNDERGROUND SERVICES THAT ARE OF A CRITICAL NATURE SHOULD BE EXPOSED AND THEIR POSITION SURVEYED

GENERAL NOTES

CAD DIGITAL DATA : JBW SURVEYORS PTY LTD

THE INFORMATION SUPPLIED IN THIS DATA FILE IS SUPPLIED ON THE CONDITION THAT THESE GENERAL NOTES ARE ALWAYS STORED WITH THE SUPPLIED CAD DRAWING, & IF THE DATA IS PROVIDED TO ANY PARTY ON ANY FORM OF HARD COPY OR COMPUTER MEDIA THEN THESE GENERAL NOTES WILL ALSO BE A PART OF THAT HARD MEDIA COPY OR COMPUTER MEDIA DATA;

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UNDERGROUND SERVICES THAT ARE OF A CRITICAL NATURE SHOULD BE EXPOSED AND THEIR POSITION SURVEYED

BULK EARTHWORKS NOTES

- ORIGIN OF LEVELS: REFER SURVEY NOTES
- STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
- EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
- COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 5.1.1)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%

- FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
- BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
- FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN --
 - 1 TEST PER 200m² OF FILL PLACED PER 300 LAYER OF FILL.
 - 3 TESTS PER VISIT
 - 1 TEST PER 1000m² OF EXPOSED SUBGRADETESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798 (1996).
- FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS
- NO FILLING SHALL TAKE PLACE TO EXPOSE SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF AT & L AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

CONCRETE NOTES

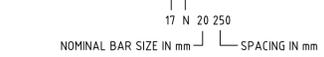
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- CONCRETE QUALITY ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F _c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

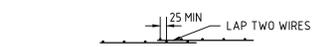
- NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
- CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.T.A. SPECIFICATION R83.
- REINFORCEMENT SYMBOLS:
 - N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
 - R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
 - SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

NUMBER OF BARS IN GROUP | BAR GRADE AND TYPE



THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.

- FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



KERBING NOTES

- ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.
- ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
- EXPANSION JOINTS (E.J.) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
- BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- IN THE REPLACEMENT OF KERB AND GUTTER -- EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.N.O.

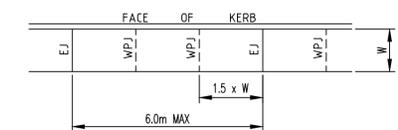
EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB AND GUTTER WITH 100mm DIA HOLE.

EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED WHERE NEW KERB AND GUTTER IS SHOWN.

JOINTING NOTES

PEDESTRIAN PAVEMENT JOINTS

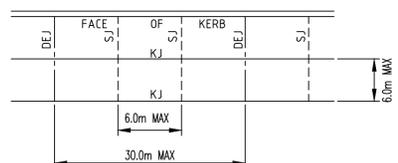
- ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
- EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
- WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 15 x WIDTH OF THE PAVEMENT.
- WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND/OR ADJACENT PAVEMENT JOINTS.
- PEDESTRIAN PAVEMENT JOINT DETAIL.



NB: CHECK RELEVANT COUNCIL REQUIREMENTS IF IN PUBLIC ROAD.

VEHICULAR PAVEMENT JOINTS

- ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)
- KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
- SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 30.0m CENTRES
- VEHICULAR PAVEMENT JOINT DETAIL.



EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE. AT & L CANNOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

SERVICES LEGEND

EXISTING SERVICES

- w --- w --- EXISTING WATER MAIN
- s --- s --- EXISTING SEWER MAIN
- e --- e --- EXISTING UNDERGROUND ELECTRICAL
- v --- v --- EXISTING OVERHEAD ELECTRICAL
- op --- op --- EXISTING OPTUS TELECOMMUNICATIONS
- t --- t --- EXISTING TELSTRA TELECOMMUNICATIONS
- of --- of --- EXISTING OPTIC FIBRE
- g --- g --- EXISTING GAS SERVICE

PROPOSED SERVICES

- w --- w --- PROPOSED WATER MAIN
- s --- s --- PROPOSED SEWER MAIN
- PROPOSED SEWER MANHOLE
- x · x · x · x · x · x · EXISTING SERVICES TO BE MADE REDUNDANT

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
 - LOCAL AUTHORITY REQUIREMENTS
 - EPA REQUIREMENTS
 - NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
- MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

- WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - INSTALL A BARRIER FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
 - INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
 - CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
 - INSTALL SEDIMENT BASIN AS SHOWN ON PLAN FOR STAGE 2
 - INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
 - UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

- DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

- STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE. I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
 - PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
 - ENSURING THAT NOTHING IS NAILED TO THEM
 - PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
 - ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 15 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
 - A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

CONTRACTOR SHALL CALL:
DIAL BEFORE
YOU DIG 1100
PRIOR TO COMMENCEMENT OF WORK
TO OBTAIN ALL CURRENT SERVICE
AUTHORITY PLANS



Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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Status: **FOR APPROVAL** **A1**
NOT TO BE USED FOR CONSTRUCTION

Scales	N.T.S.	Drawn G.J.	Designed G.J.
Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

File: DAC002.dwg

Client: **KARIMBLA**
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info@atl.net.au

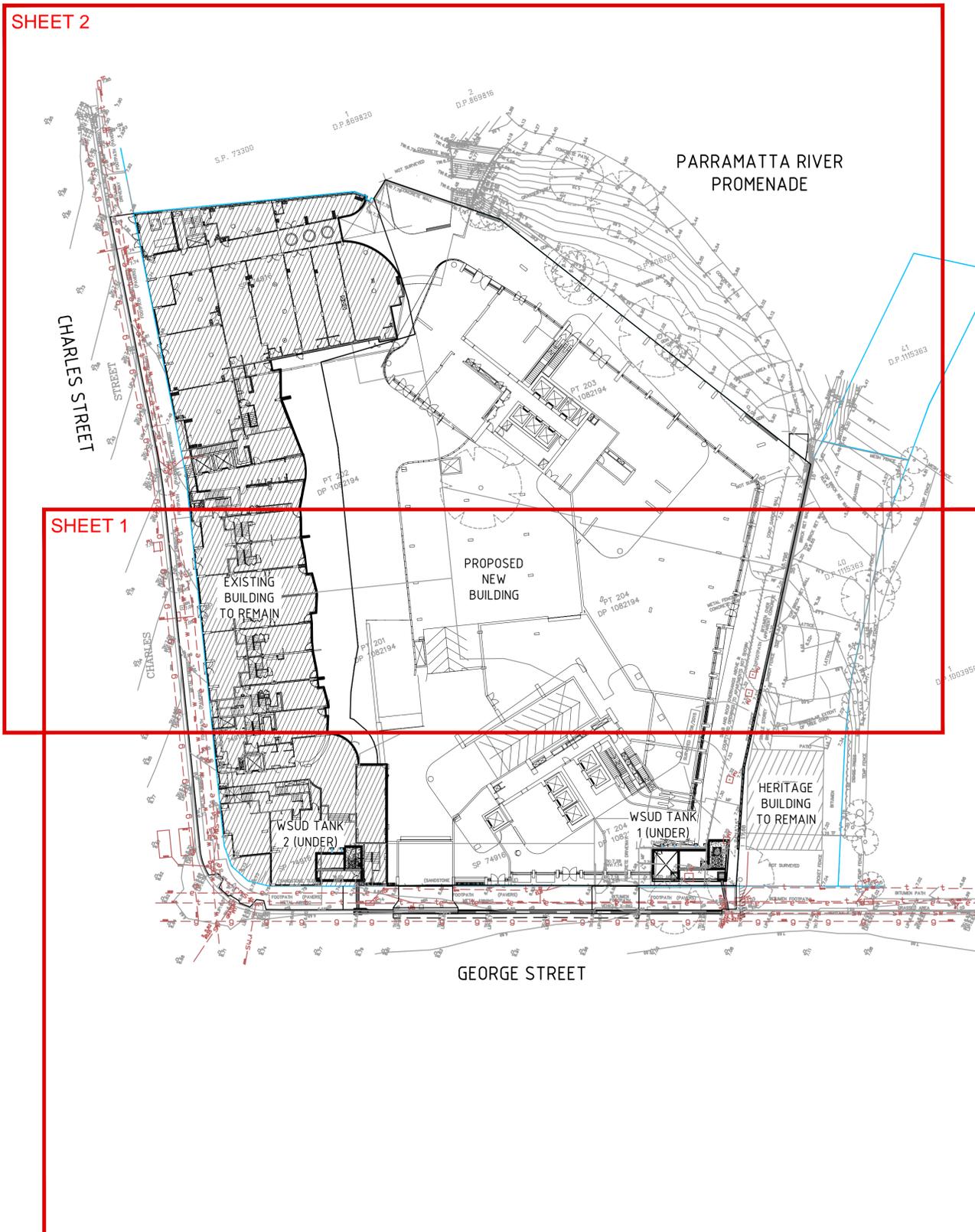
Project

180
GEORGE STREET
PARRAMATTA

Title

NOTES
AND LEGENDS

Drawing No.	Project No.	Issue
DAC002	18-538	B



Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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		Designed G.J.	
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Grid	MGA	Approved	

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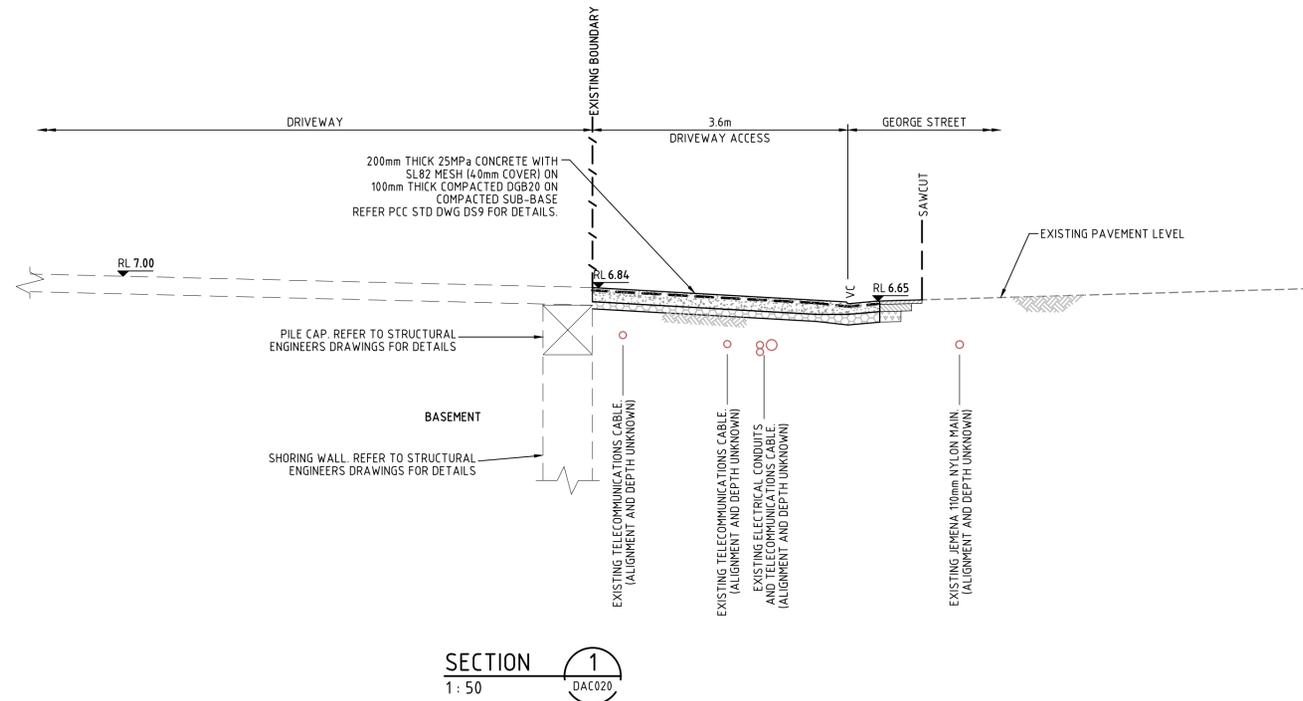
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 info@atl.net.au

Project
**180
 GEORGE STREET
 PARRAMATTA**

Title
**GENERAL
 ARRANGEMENT
 PLAN**

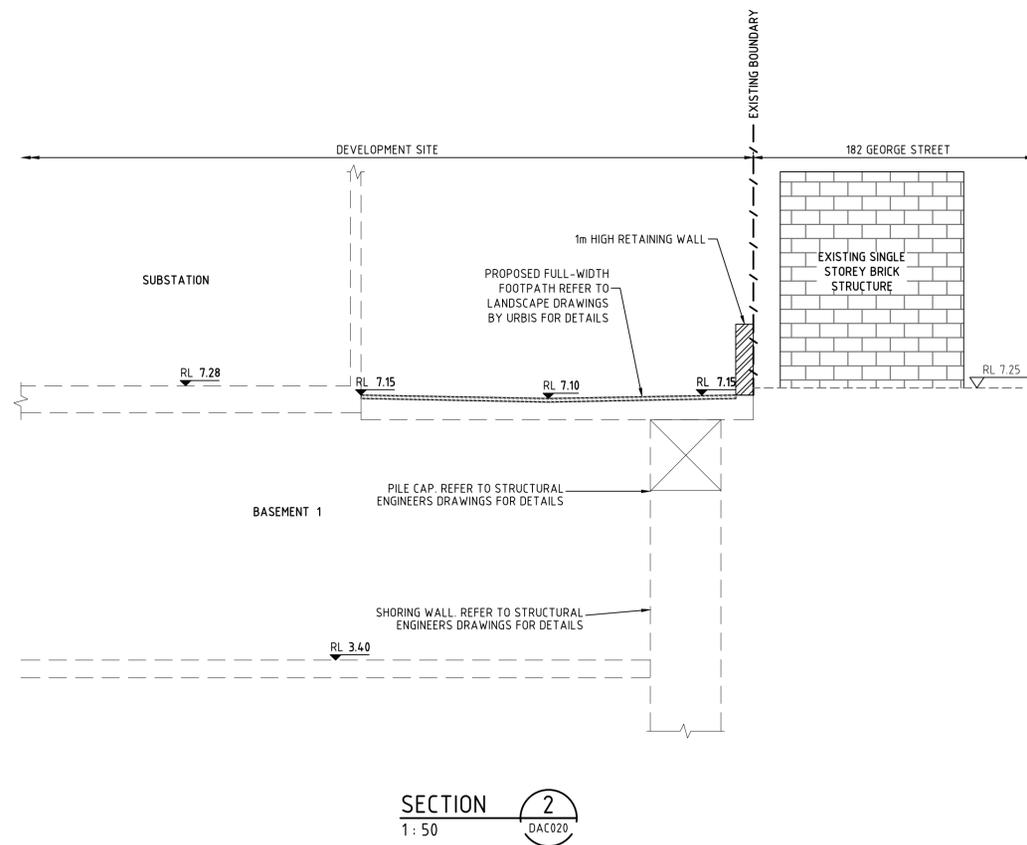
Drawing No. DAC003	Project No. 18-538	Issue B
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NOTE:

- EXISTING UTILITIES TO BE PROTECTED DURING CONSTRUCTION WRAPPED IN ABELFLEX OR APPROVED EQUIVALENT. SERVICE PROVIDER TO CONFIRM IF RELOCATION REQUIRED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- DEPTH OF EXISTING SERVICES TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.



Issue	Description	Date
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Height Datum	AHD	Checked AT	Approved
Grid	MGA		

File: DAC005.dwg

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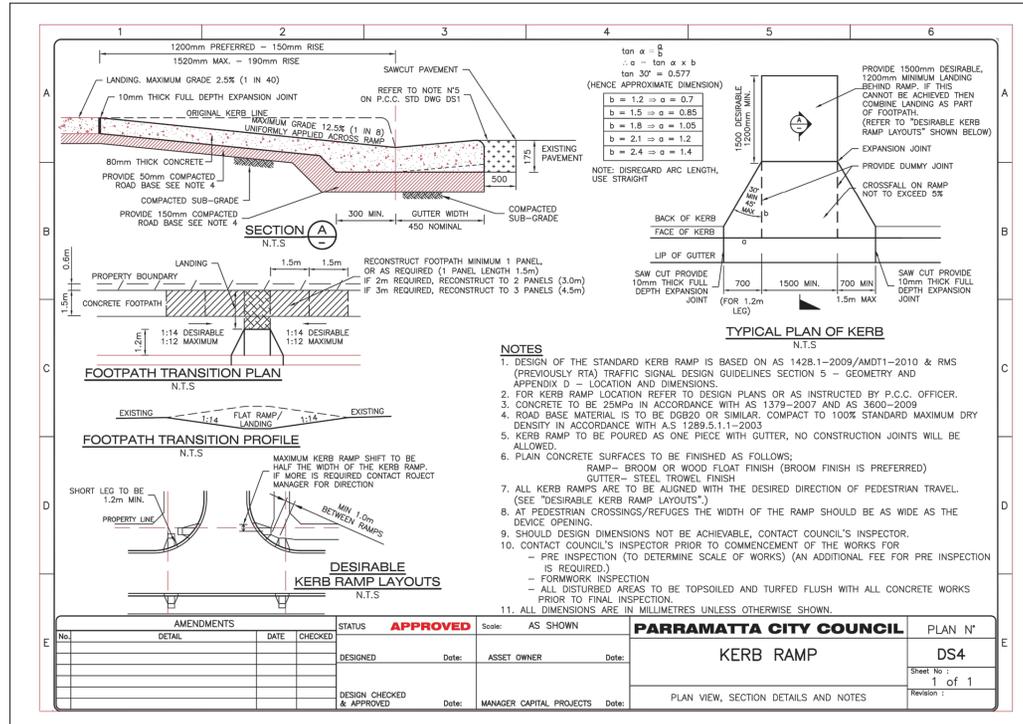
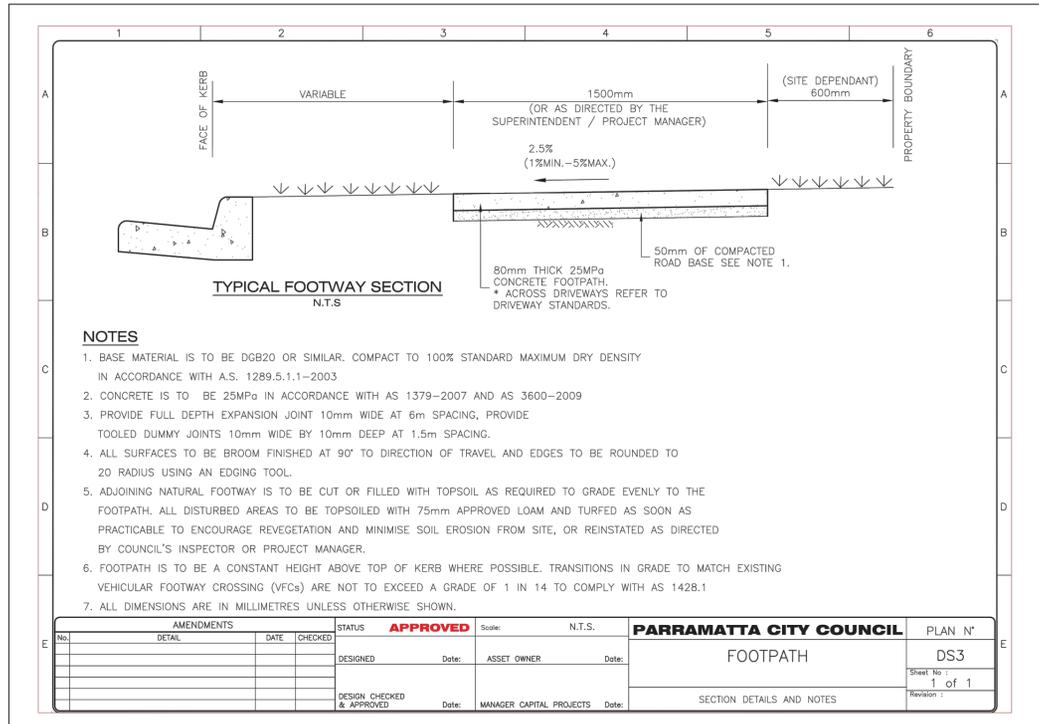
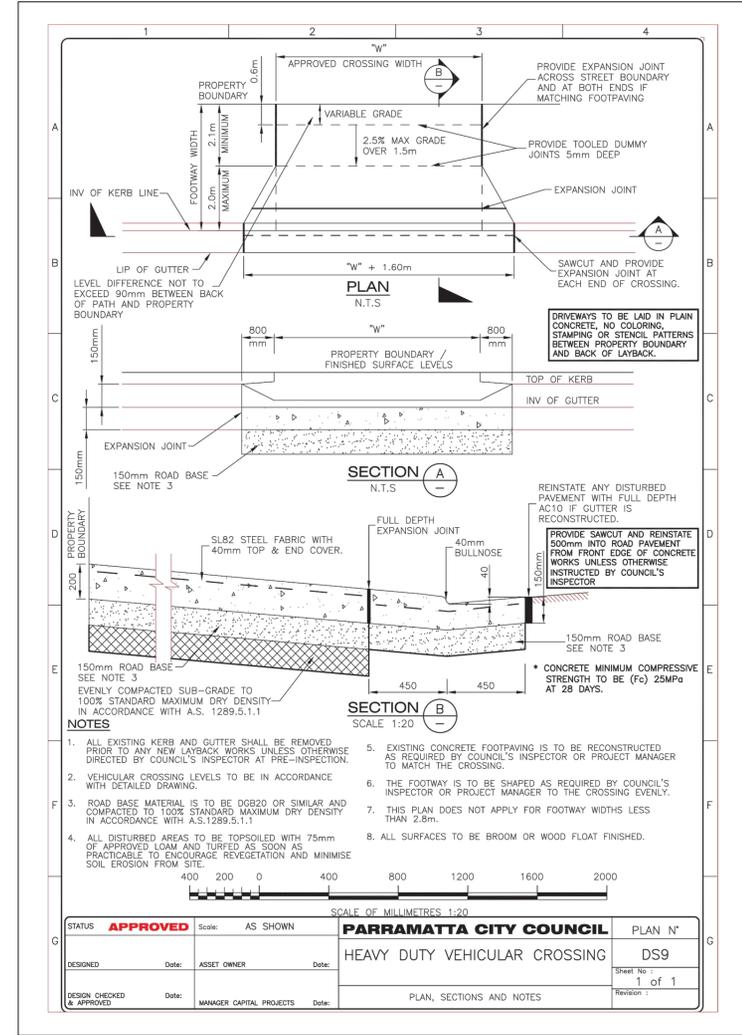
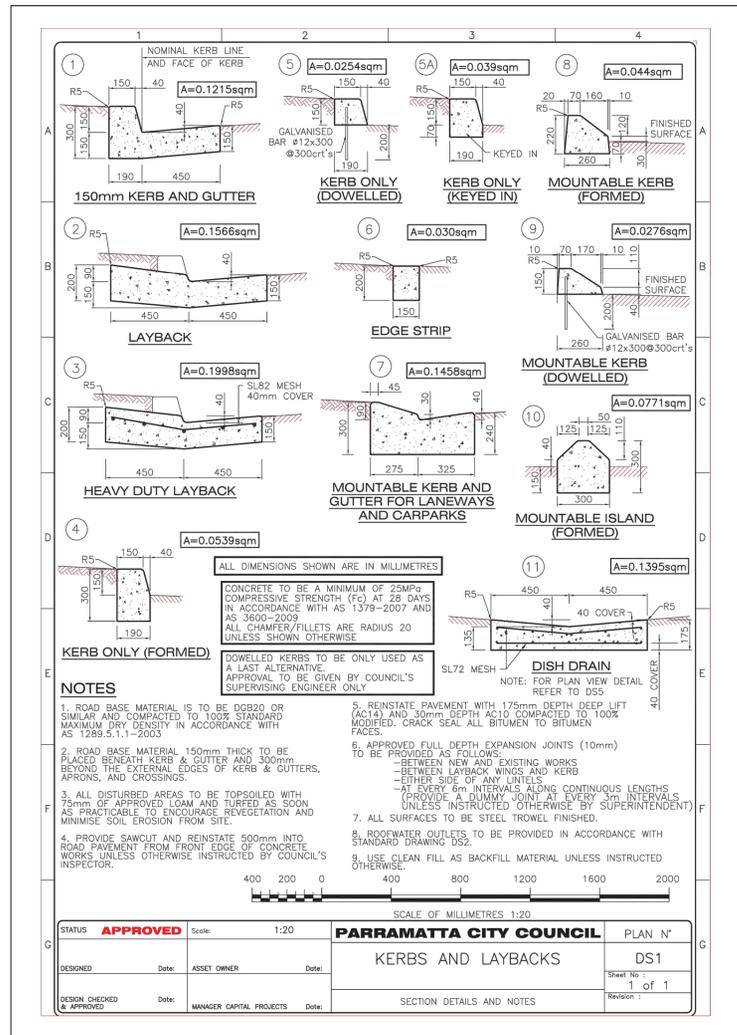
Project

**180
GEORGE STREET
PARRAMATTA**

Title

**TYPICAL
SECTIONS**

Drawing No.	Project No.	Issue
DAC005	18-538	B



B	ISSUE FOR APPROVAL	29-11-18
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Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

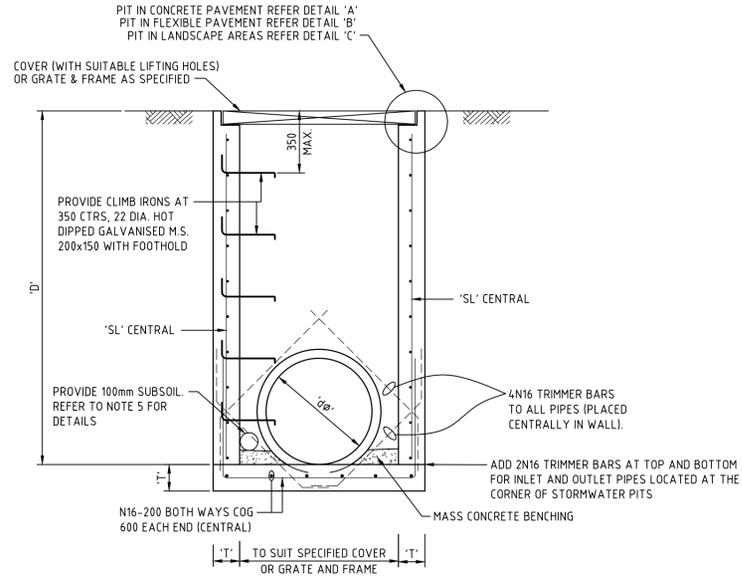
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Project
180 GEORGE STREET PARRAMATTA

Title
SITWORKS DETAILS

Drawing No.	Project No.	Issue
DAC010	18-538	B



**PIT TYPE 'A' DETAIL
SURFACE INLET PIT
FOR PIPES UP TO 525φ**

SCALE: 1:20

PIPE DIA. φ	WIDTH 'W'	DEPTH 'D'	WALL 'T'	FABRIC/COV 'SL'
375	650	800	150	SL72
	650	1200	150	SL72
	650	1600	150	SL72
	650	2000	150	SL72
	650	2400	150	SL72
450	650	800	150	SL72
	650	1200	150	SL72
	650	1600	150	SL72
	650	2000	150	SL72
	650	2400	150	SL72
525	650	800	150	SL72
	650	1200	150	SL72
	650	1600	150	SL72
	650	2000	150	SL72
	650	2400	150	SL72

NOTE

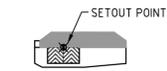
- FOR PIT SIZE REFER TO TABLE (900 MIN LONG).
- REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
- COMPRESSIVE STRENGTH (f_c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 32 MPa AT 28 DAYS.
- TOP OF BENCHING SHALL BE 1/2 OF OUTLET PIPE DIAMETER.
- 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
- ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
- PIT GRATE TO BE 'WELDLOK' GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
- DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
- PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
- N12 AT 200 CENTRAL MAY BE USED IN LIEU OF MESH. LAP 500 AT CORNERS

11. CONCRETE STRENGTH - UNLESS NOTED OTHERWISE

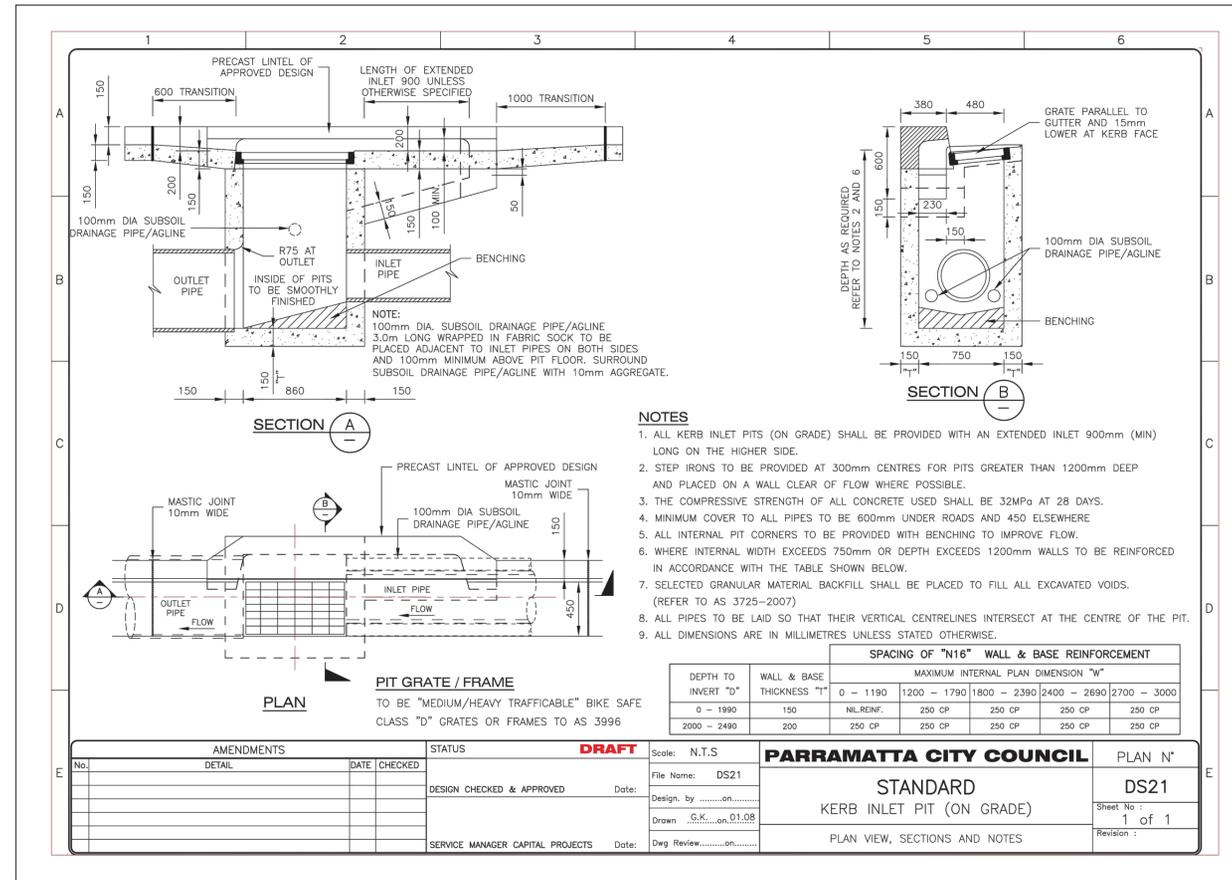
ELEMENT	f _c MPa (28 DAYS)	SLUMP	MAX AGG SIZE	CEMENT TYPE
PITS	32	80mm	20mm	GP

12. COVER - UNLESS NOTED OTHERWISE

ELEMENT	INTERIOR	EXTERIOR
PITS		45mm
SLAB TOP	45mm	45mm
SLAB BOTTOM	45mm	45mm
BEAM TOP		
BEAM BOTTOM		
BEAM SIDE		
COLUMNS		



**STORMWATER PIT
SETOUT POINTS**

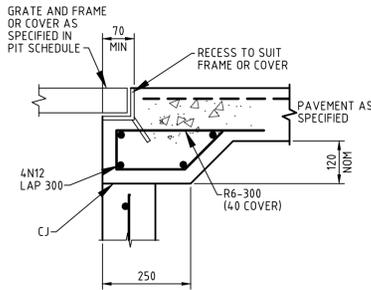


NOTES

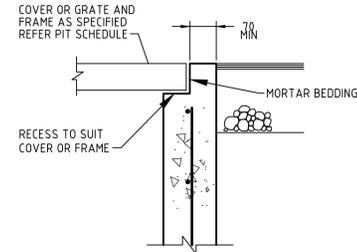
- ALL KERB INLET PITS (ON GRADE) SHALL BE PROVIDED WITH AN EXTENDED INLET 900mm (MIN) LONG ON THE HIGHER SIDE.
- STEP IRONS TO BE PROVIDED AT 300mm CENTRES FOR PITS GREATER THAN 1200mm DEEP AND PLACED ON A WALL CLEAR OF FLOW WHERE POSSIBLE.
- THE COMPRESSIVE STRENGTH OF ALL CONCRETE USED SHALL BE 32MPa AT 28 DAYS.
- MINIMUM COVER TO ALL PIPES TO BE 600mm UNDER ROADS AND 450 ELSEWHERE
- ALL INTERNAL PIT CORNERS TO BE PROVIDED WITH BENCHING TO IMPROVE FLOW.
- WHERE INTERNAL WIDTH EXCEEDS 750mm OR DEPTH EXCEEDS 1200mm WALLS TO BE REINFORCED IN ACCORDANCE WITH THE TABLE SHOWN BELOW.
- SELECTED GRANULAR MATERIAL BACKFILL SHALL BE PLACED TO FILL ALL EXCAVATED VOIDS. (REFER TO AS 3725-2007)
- ALL PIPES TO BE LAID SO THAT THEIR VERTICAL CENTRELINES INTERSECT AT THE CENTRE OF THE PIT.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.

DEPTH TO INVERT 'D'	WALL & BASE THICKNESS 'T'	SPACING OF "N16" WALL & BASE REINFORCEMENT					
		MAXIMUM INTERNAL PLAN DIMENSION "W"					
0 - 1190	150	250 CP	250 CP	250 CP	250 CP	250 CP	250 CP
1200 - 1790	150	250 CP	250 CP	250 CP	250 CP	250 CP	250 CP
1800 - 2390	200	250 CP	250 CP	250 CP	250 CP	250 CP	250 CP
2400 - 2690	200	250 CP	250 CP	250 CP	250 CP	250 CP	250 CP
2700 - 3000	200	250 CP	250 CP	250 CP	250 CP	250 CP	250 CP

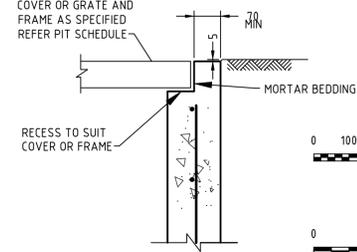
AMENDMENTS		STATUS		PARRAMATTA CITY COUNCIL		PLAN N°	
No.	DETAIL	DATE	CHECKED	File Name:	DS21	Sheet No:	1 of 1
				Design by:		Revision:	
				Drawn:	G.K. on 01.08		
				Dwg Review:			
DESIGN CHECKED & APPROVED Date:				STANDARD KERB INLET PIT (ON GRADE)			
SERVICE MANAGER CAPITAL PROJECTS Date:				PLAN VIEW, SECTIONS AND NOTES			



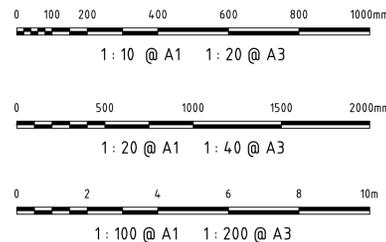
**DETAIL "A"
SCALE 1:10**



**DETAIL "B"
SCALE 1:10**



**DETAIL "C"
SCALE 1:10**



Issue	Description	Date
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AHD	Checked AT	Approved
MGA		

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Project: **180 GEORGE STREET PARRAMATTA**

Title: **STORMWATER DETAILS**

Drawing No.	Project No.	Issue
DAC015	18-538	B



SITWORKS LEGEND

EXISTING		PROPOSED	
(Symbol: Dashed line with elevation)	SURFACE LEVEL	(Symbol: Solid line with elevation)	PROPOSED SURFACE LEVEL
(Symbol: Dashed line)	CONTOUR	(Symbol: Solid line)	PROPOSED CONTOUR
(Symbol: Dashed line)	FENCE	(Symbol: Solid line)	EXISTING BOUNDARY
(Symbol: Circle with cross)	TREE	(Symbol: Circle with cross)	PROPOSED BOUNDARY
(Symbol: Dashed line)	EXISTING BOUNDARY	(Symbol: Solid line)	PROPOSED SURFACE LEVEL
(Symbol: Dashed line)	FENCE	(Symbol: Dashed line)	PROPOSED CONTOUR
(Symbol: Circle with cross)	TREE	(Symbol: Solid line)	EXISTING CONTOUR
(Symbol: Dashed line)	EXISTING BOUNDARY	(Symbol: Solid line)	EXISTING CONTOUR
(Symbol: Circle with dot)	PROPOSED SURFACE LEVEL	(Symbol: Dashed line)	PROPOSED CONTOUR
(Symbol: Dashed line)	PROPOSED CONTOUR	(Symbol: Solid line)	EXISTING CONTOUR
(Symbol: Solid line)	EXISTING CONTOUR	(Symbol: Dashed line)	PROPOSED CONTOUR
(Symbol: Line with 'K&G')	KERB AND GUTTER (PCC STD DWG DS1)	(Symbol: Line with 'SAWCUT')	PAVEMENT SAWCUT
(Symbol: Line with 'SAWCUT')	PAVEMENT SAWCUT	(Symbol: Line with 'VC')	VEHICULAR CROSSING (PCC STD DWG DS9)
(Symbol: Line with 'VC')	VEHICULAR CROSSING (PCC STD DWG DS9)	(Symbol: Triangle with 'PR')	KERB RAMP (PCC STD DWG DS4)
(Symbol: Triangle with 'PR')	KERB RAMP (PCC STD DWG DS4)	(Symbol: Square with '900x900')	900 x 900 STORMWATER PIT
(Symbol: Square with '900x900')	900 x 900 STORMWATER PIT	(Symbol: Line with 'S.W.')	STORMWATER LINE WITH CAP
(Symbol: Line with 'S.W.')	STORMWATER LINE WITH CAP	(Symbol: Circle with cross)	EXISTING TREE TO BE REMOVED
(Symbol: Circle with cross)	EXISTING TREE TO BE REMOVED		



CH 211.47
CH 210
CH 200
CHARLES STREET
CH 190
EXISTING KERB AND GUTTER TO BE RETAINED
CH 180
NOTE: EXISTING LEVELS TO BE MAINTAINED AT ALL BUILDING ENTRY POINTS ALONG CHARLES STREET
CH 170
CH 160
CH 150
CH 140
CH 130

0 5 10 15 20m
1:200 @ A1 1:400 @ A3

Issue	Description	Date
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Project

**180
GEORGE STREET
PARRAMATTA**

Title

**SITWORKS AND
STORMWATER PLAN
SHEET 2**

Drawing No.	Project No.	Issue
DAC021	18-538	B

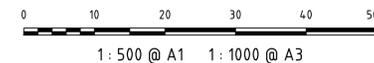
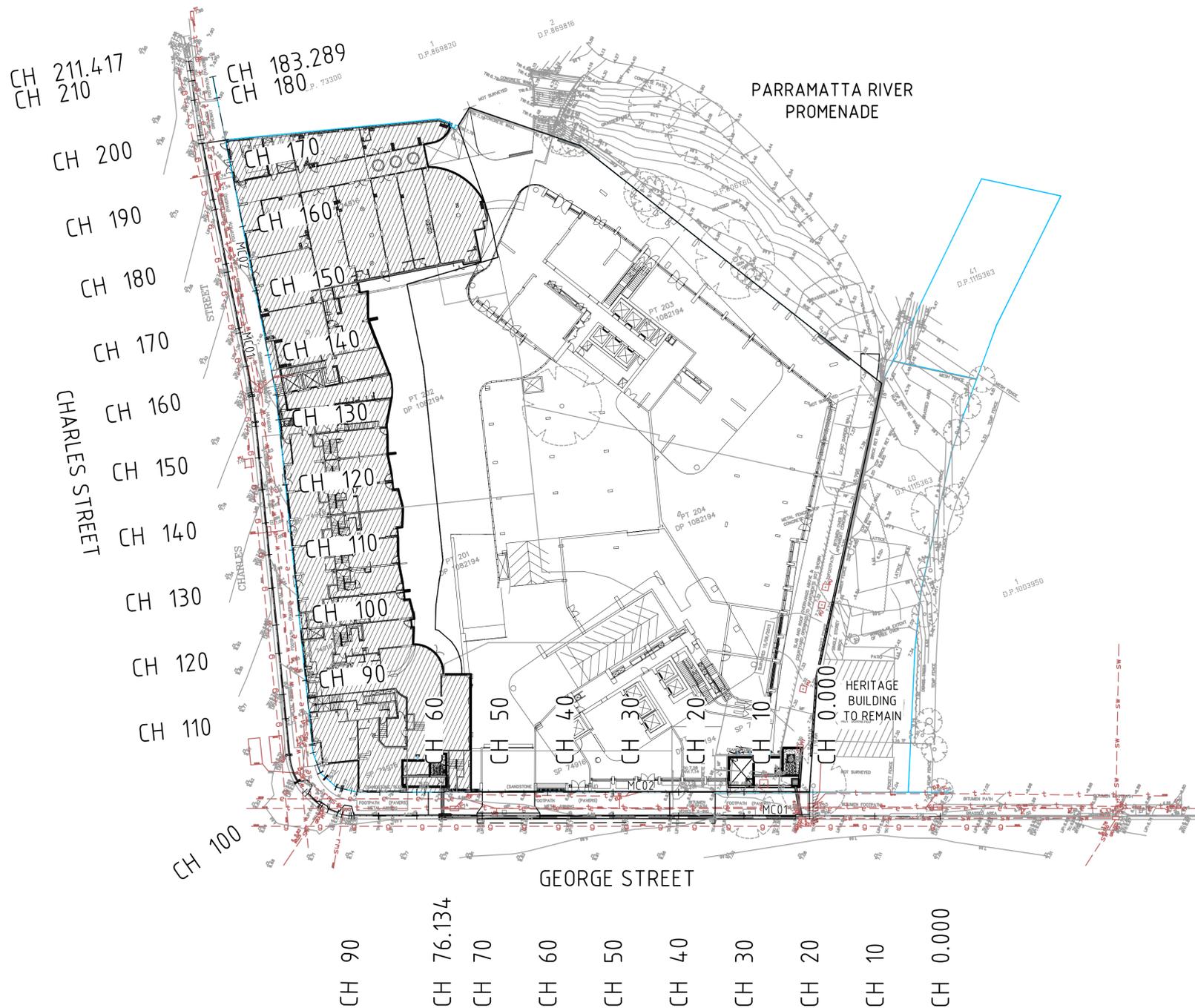


PUBLIC DOMAIN CL (MC01) - SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	315850.336	6256551.360	7.002	290°16'44.82"			
IP 2	0.695	315849.684	6256551.601	6.870				
IP 3	7.995	315842.841	6256554.143	7.022				
IP 4	19.121	315832.407	6256558.007	6.997				
IP 5	24.970	315826.917	6256560.022	6.967				
IP 6	29.467	315822.701	6256561.589	6.944				
IP 7	34.408	315818.076	6256563.326	6.924				
IP 8	41.320	315811.590	6256565.716	6.868				
IP 9	48.199	315805.133	6256568.089	6.833				
IP 10	56.648	315797.202	6256571.000	6.790				
IP 11	63.615	315790.665	6256573.410	6.594				
IP 12	70.315	315784.378	6256575.726	6.627				
IP 13	76.009	315779.040	6256577.709	6.685				
IP 14	85.861	315769.790	6256581.099	6.693				
IP 15	89.593	315766.298	6256582.416	6.686				
IP 16	90.340	315765.603	6256582.690	6.560				
IP 17	91.445	315764.637	6256583.226	6.553				
IP 18	92.155	315764.082	6256583.669	6.646				
IP 19	93.662	315762.942	6256584.655	6.616				
IP 20	94.799	315762.190	6256585.508	6.616				
TC	95.164	315761.985	6256585.810	6.617	325°50'41.20"			
IP 21	97.633	315760.585	6256587.874	6.649		R = 14.150	4.938	19°59'37.85"
CT	100.102	315759.975	6256590.292	6.678	345°50'19.05"			
IP 22	100.125	315759.969	6256590.315	6.682				
TC	100.172	315759.960	6256590.361	6.682	348°49'00.03"			
IP 23	102.282	315759.543	6256592.471	6.690		R = 8.770	4.219	27°33'38.75"
CT	104.391	315760.149	6256594.535	6.697	16°22'38.78"			
IP 24	104.566	315760.199	6256594.702	6.698				
IP 25	113.682	315762.483	6256603.528	6.737				
IP 26	124.349	315765.152	6256613.856	6.874				
IP 27	135.131	315767.825	6256624.301	7.002				
IP 28	145.088	315770.292	6256633.947	7.135				
IP 29	154.789	315772.710	6256643.342	7.266				
TC	155.458	315772.871	6256643.992	7.275	13°52'38.18"			
IP 30	157.454	315773.350	6256645.930	7.296		R = -90.340	3.992	2°31'54.75"
CT	159.450	315773.743	6256647.887	7.317	11°20'43.43"			
IP 31	159.718	315773.795	6256648.150	7.320				
IP 32	164.076	315774.535	6256652.445	7.367				
IP 33	169.274	315775.333	6256657.581	7.426				
IP 34	178.737	315776.797	6256666.930	7.549				
IP 35	188.457	315778.319	6256676.530	7.666				
IP 36	198.776	315779.921	6256686.725	7.792				
IP 37	205.468	315781.155	6256693.301	7.860				
IP 38	208.439	315781.815	6256696.198	7.898				
IP 39	211.417	315782.392	6256699.119	7.883	11°09'41.32"			

BOUNDARY (MC02) - SETOUT TABLE

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	315832.843	6256561.741	7.084	290°13'21.07"
IP 2	69.152	315767.954	6256585.645	6.747	
IP 3	72.413	315765.258	6256587.480	6.720	
IP 4	75.673	315763.742	6256590.366	6.716	
IP 5	78.933	315763.760	6256593.626	6.734	
IP 6	133.823	315777.346	6256646.808	7.430	
IP 7	173.463	315783.505	6256685.966	7.855	
IP 8	183.289	315785.032	6256695.673	7.927	8°56'20.10"



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Grid	MGA		

File: DAC025.dwg

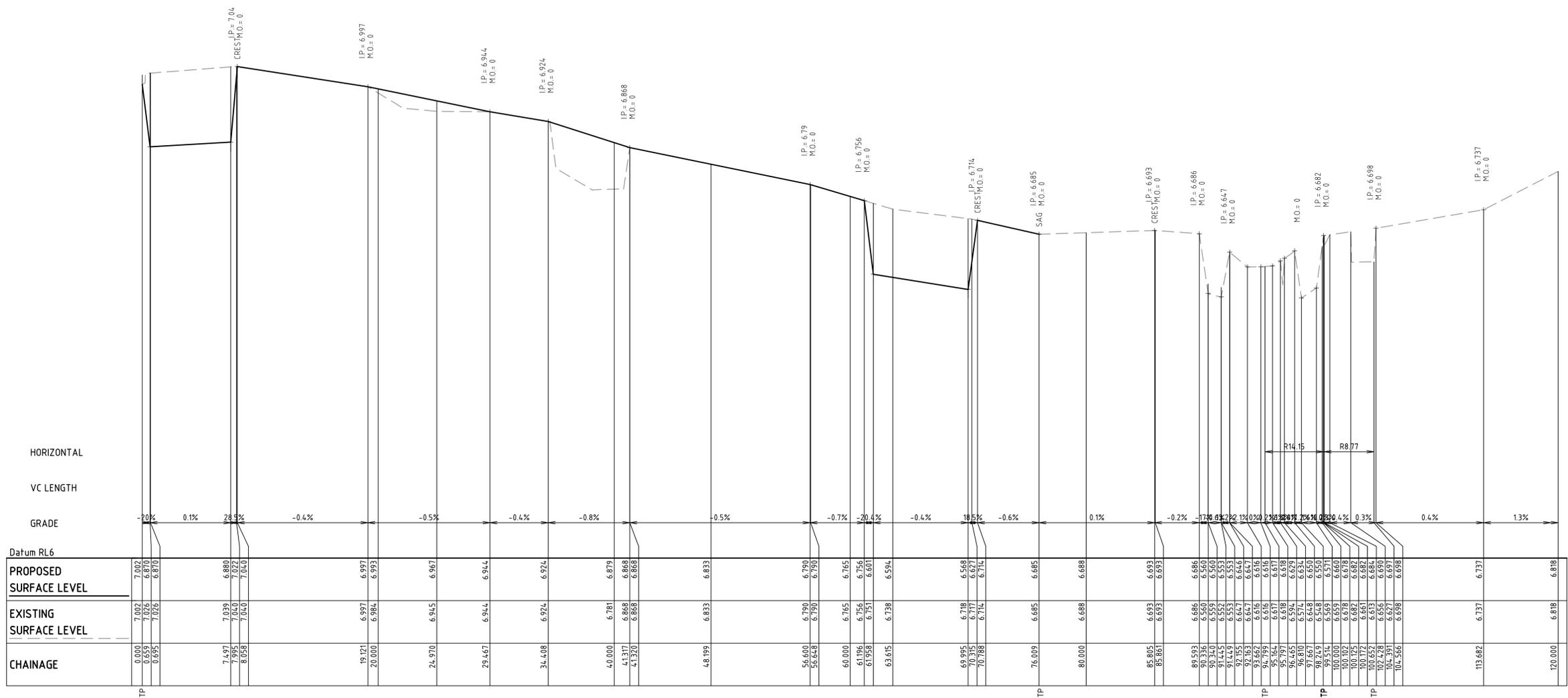
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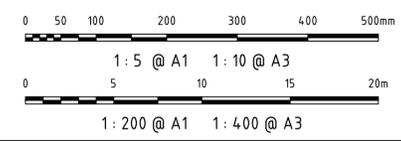
Project: **180 GEORGE STREET PARRAMATTA**

Title: **CONTROL LINE SETOUT PLAN**

Drawing No.	Project No.	Issue
DAC025	18-538	B



PUBLIC DOMAIN CL1 LONGITUDINAL SECTION
SCALE 1:200 HORI
1:5 VERT.



Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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Height Datum	AHD	Checked	AT
Grid	MGA	Approved	

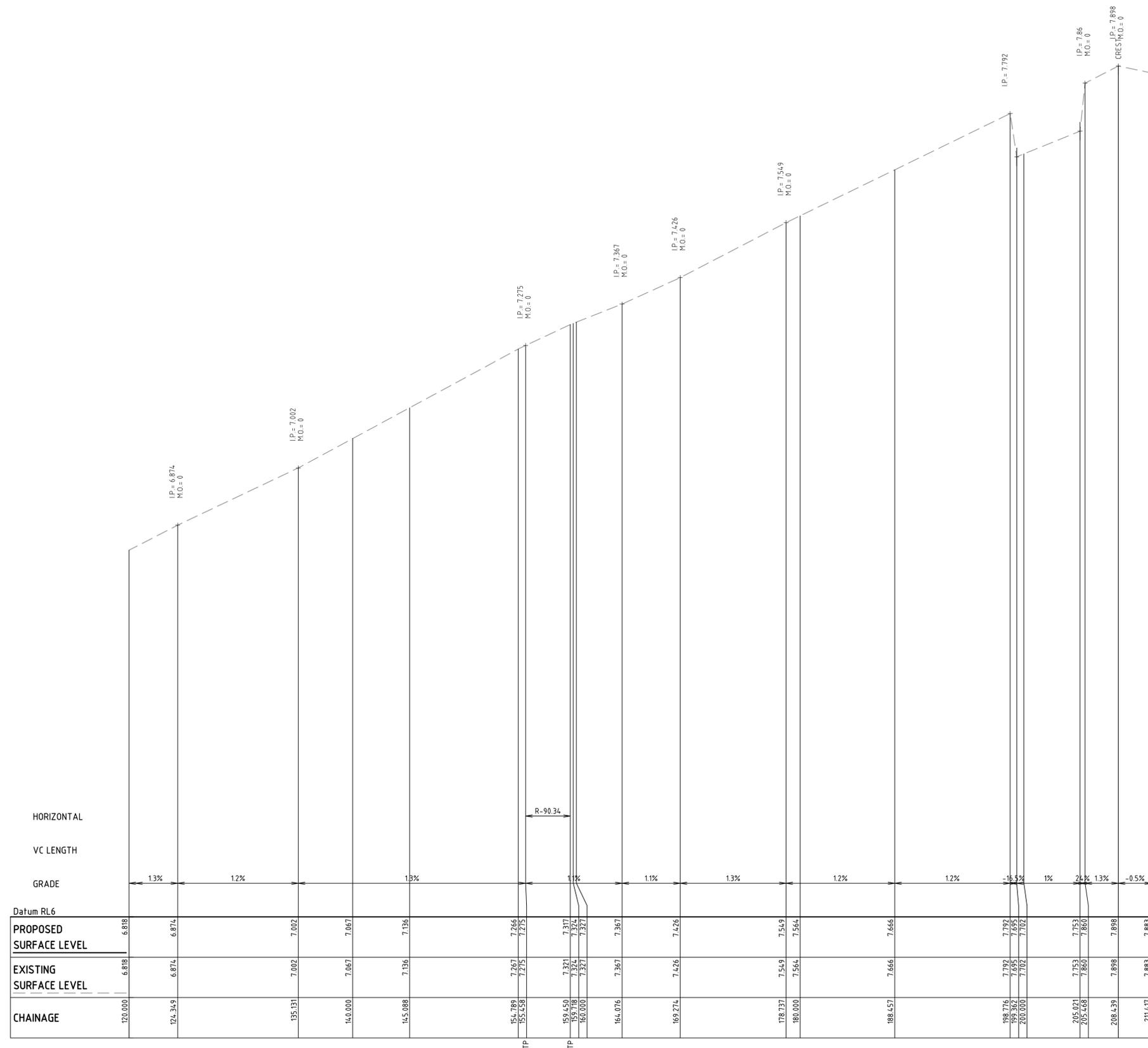
Client
KARIMBLA
CONSTRUCTION SERVICES (NSW)
PTY LIMITED
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Tel: (02) 9287 2888 Fax: (02) 9287 2777
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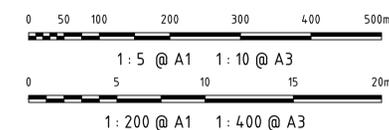
Project
**180
GEORGE STREET
PARRAMATTA**

Title
**PUBLIC DOMAIN
LONGITUDINAL SECTION
(MC01)
SHEET 1**

Drawing No.	Project No.	Issue
DAC030	18-538	B



PUBLIC DOMAIN CL1 LONGITUDINAL SECTION
 SCALE 1:200 HORI.
 1:5 VERT.



Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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Status: **FOR APPROVAL** A1
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Drawn	Designed	Checked	Approved
GJ	GJ	AT	

File: DAC031.dwg

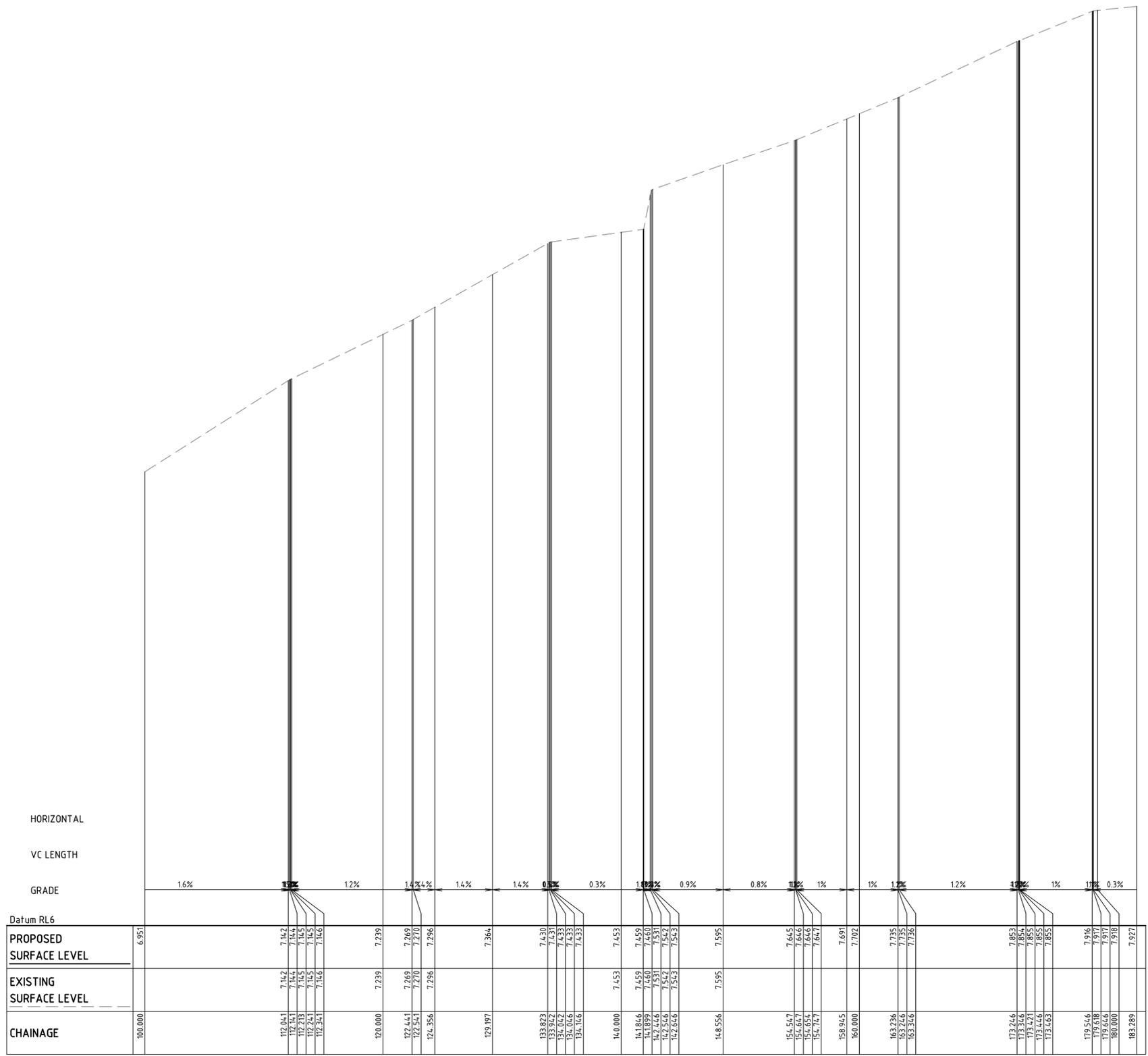
Client: **KARIMBLA**
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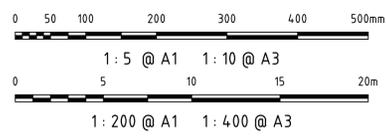
Project: **180 GEORGE STREET PARRAMATTA**

Title: **PUBLIC DOMAIN LONGITUDINAL SECTION (MC01) SHEET 2**

Drawing No.	Project No.	Issue
DAC031	18-538	B



MC02 LONGITUDINAL SECTION
SCALE 1:200 HORI.
1:5 VERT.



Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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Status	FOR APPROVAL		A1
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Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

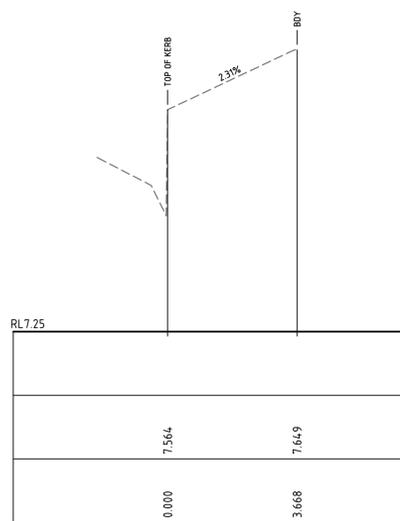
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Client
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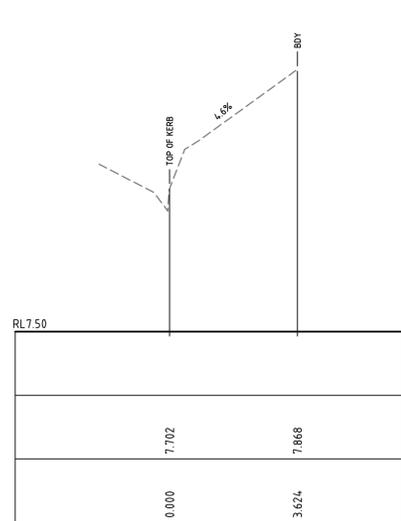
Project
**180
GEORGE STREET
PARRAMATTA**

Title
**BOUNDARY
LONGITUDINAL SECTION
(MC02)
SHEET 2**

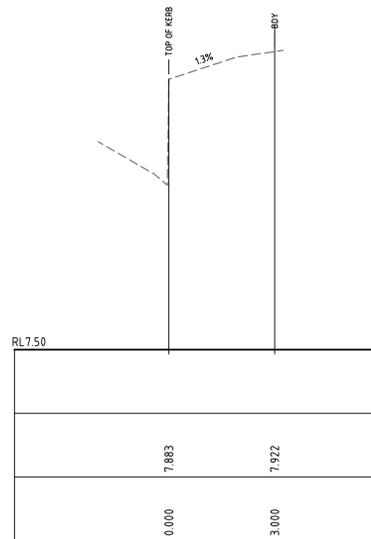
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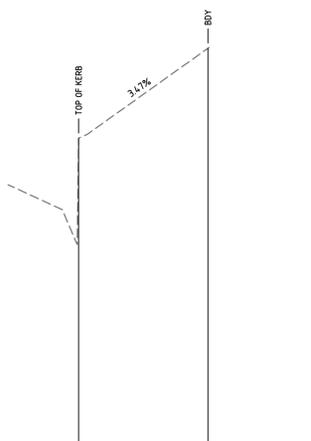
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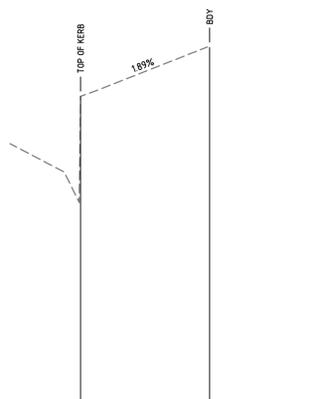
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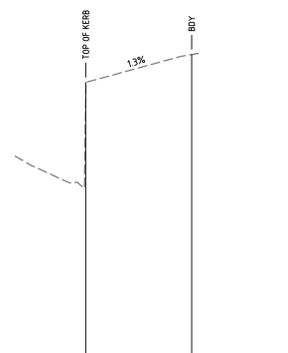
CH 211.417



CH 170



CH 190



CH 210

PROPOSED SURFACE LEVEL		
EXISTING SURFACE LEVEL	7.435	7.563
CENTRELINE OFFSET	0.000	3.663

EXISTING SURFACE LEVEL	7.685	7.755
CENTRELINE OFFSET	0.000	3.657

EXISTING SURFACE LEVEL	7.890	7.929
CENTRELINE OFFSET	0.000	3.000

Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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Scales	1 : 100 H 1 : 20 V	Drawn GJ	
Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

File: DAC043.dwg

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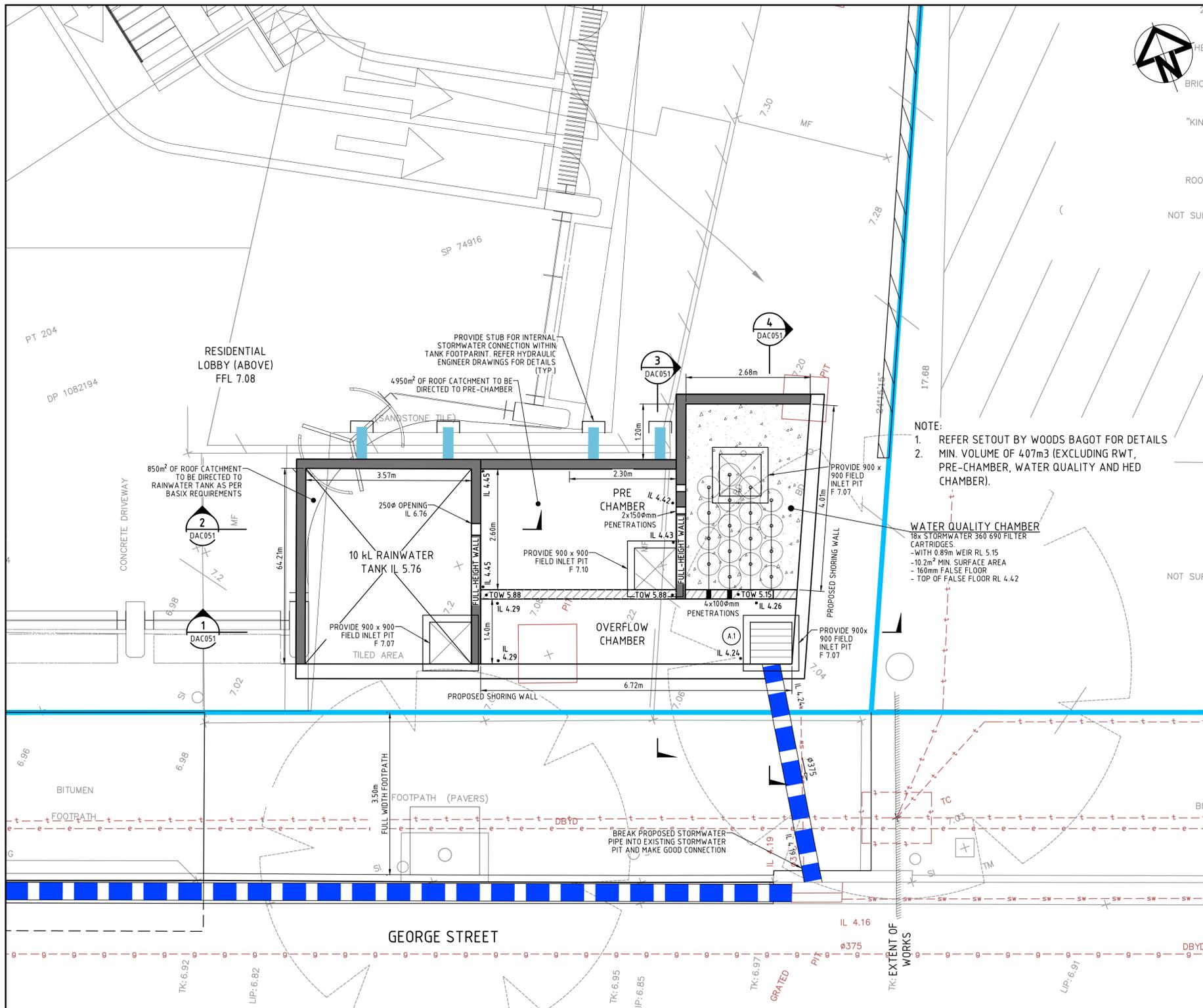
Project

180
 GEORGE STREET
 PARRAMATTA

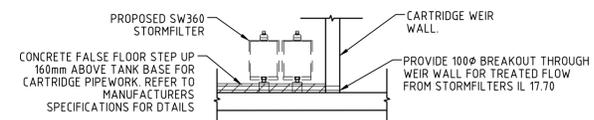
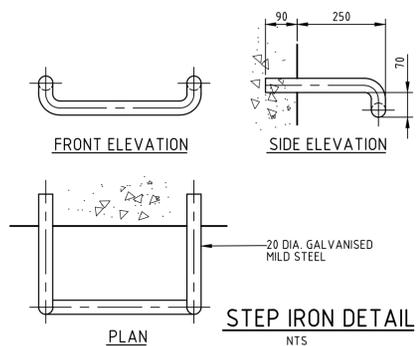
Title

PUBLIC DOMAIN
 CROSS SECTIONS
 SHEET 4

Drawing No.	Project No.	Issue
DAC043	18-538	B



WSUD TANK PLAN
1:50



OSD 1 TYPICAL BREAKOUT
DETAIL
1:50

PRE-TREATMENT CHAMBER
Q_{3-MTH} FLOW

$Q = C \times l \times A \times (1/360)$
 $= (0.8 \times 0.9) \times (86.8 \times 0.5) \times 0.83 \times (1/360)$
 $= 0.072 \text{ m}^3/\text{s}$
 $= 72.04 \text{ L/s}$

ORIFICE EQUATION: $Q = CA(2gh)^{0.5}$
 $0.072 = 0.61 \times A \times (2 \times 9.8 \times 1.45)^{0.5}$
 $A = 0.0221 \text{ m}^2$
 $\therefore 2 \times 150\phi \text{ PENETRATIONS SUFFICIENT}$

NOTE:
1. REFER SETOUT BY WOODS BAGOT FOR DETAILS
2. MIN. VOLUME OF 4.07m³ (EXCLUDING RWT, PRE-CHAMBER, WATER QUALITY AND HED CHAMBER).

WATER QUALITY CHAMBER
18x STORMWATER 360 690 FILTER CARTRIDGES
- WITH 0.89m WEIR RL 5.15
- 10.2m² MIN. SURFACE AREA
- 160mm FALSE FLOOR
- TOP OF FALSE FLOOR RL 4.42

Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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		Designed GJ	
Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

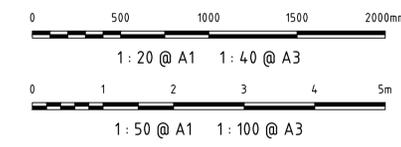
File: DAC050.dwg
Client: **KARIMBLA** CONSTRUCTION SERVICES (NSW) PTY LIMITED
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Tel: (02) 9287 2888 Fax: (02) 9287 2777
Email: info@design.meriton.com.au
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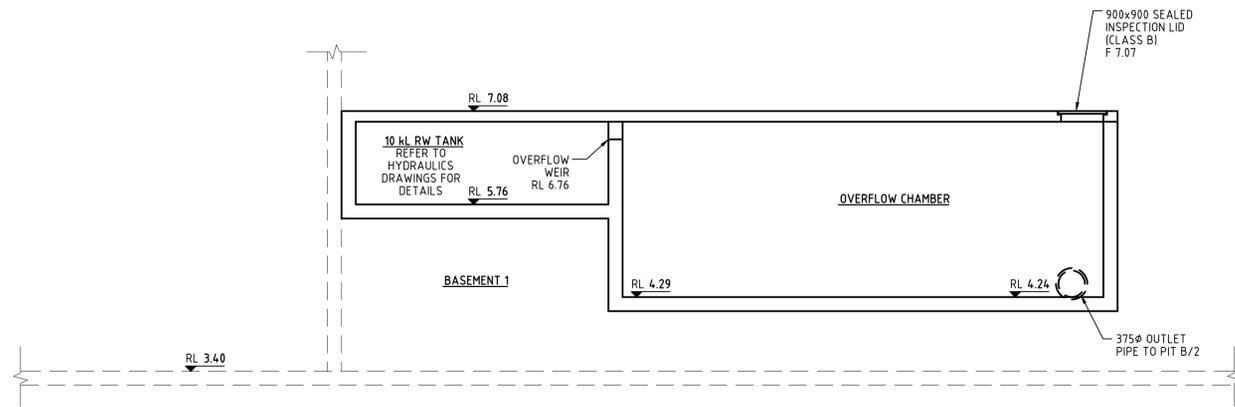
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Project
180 GEORGE STREET PARRAMATTA

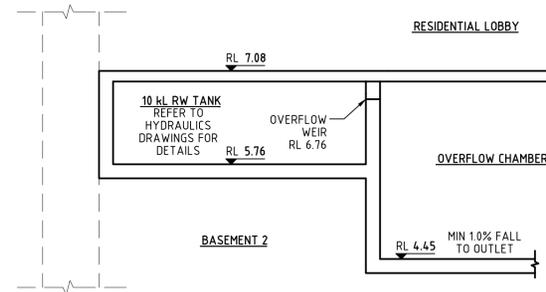
Title
WSUD TANK 1 PLAN AND DETAILS

Drawing No. DAC050	Project No. 18-538	Issue B
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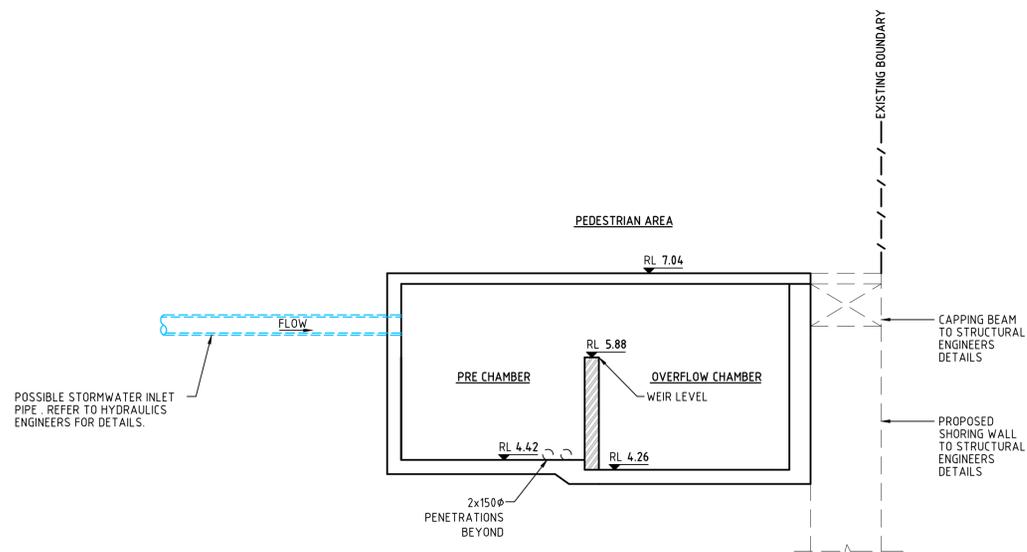




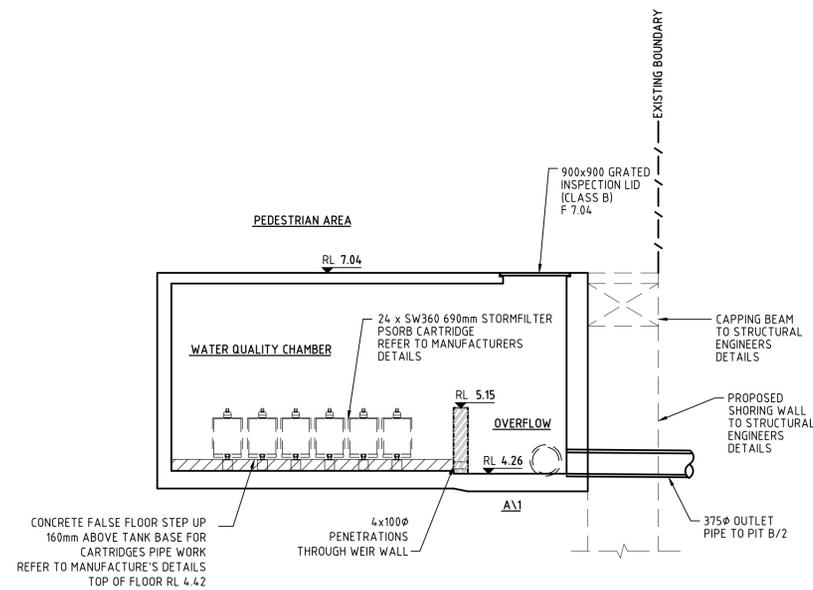
1 SECTION
DAC050 1:50



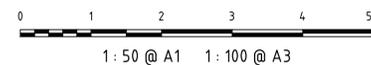
2 SECTION
DAC050 1:50



3 SECTION
DAC050 1:50



4 SECTION
DAC050 1:50



B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18
Issue	Description	Date

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Drawn	GJ
Designed	GJ
Checked	AT
Approved	

File: DAC051.dwg

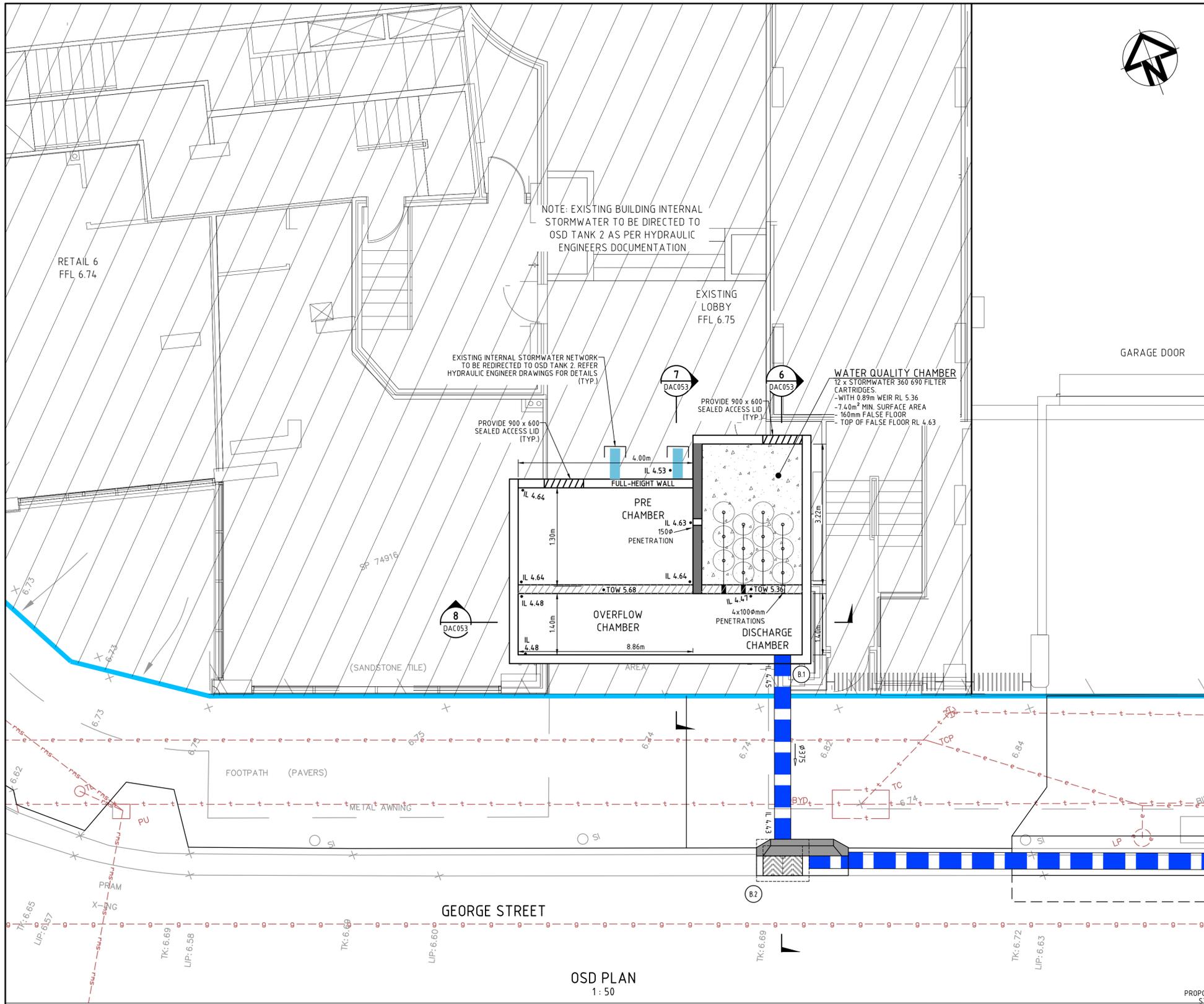
Client
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PTY LIMITED
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Project
180
GEORGE STREET
PARRAMATTA

Title
WSUD TANK 1
SECTIONS

Drawing No.	Project No.	Issue
DAC051	18-538	B



PRE-TREATMENT CHAMBER
Q_{3-MTH} FLOW

$Q = C \times l \times A \times (1/360)$
 $= (0.8 \times 0.9) \times (86.8 \times 0.5) \times 0.14 \times (1/360)$
 $= 0.012 \text{ m}^3/\text{s}$
 $= 12.04 \text{ L/s}$

ORIFICE EQUATION: $Q = CA(2gh)^{0.5}$
 $0.012 = 0.61 \times A \times (2 \times 9.8 \times 1.05)^{0.5}$
 $A = 0.004 \text{ m}^2$
 $\therefore 1 \times 150\phi \text{ PENETRATIONS SUFFICIENT}$

Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
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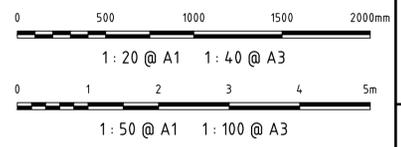
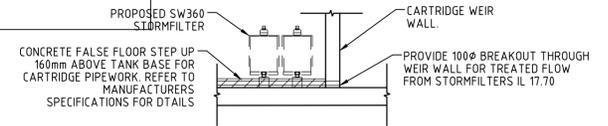
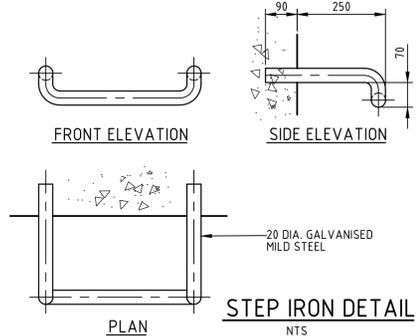
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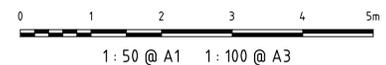
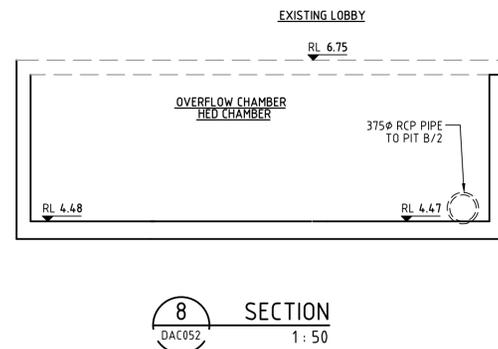
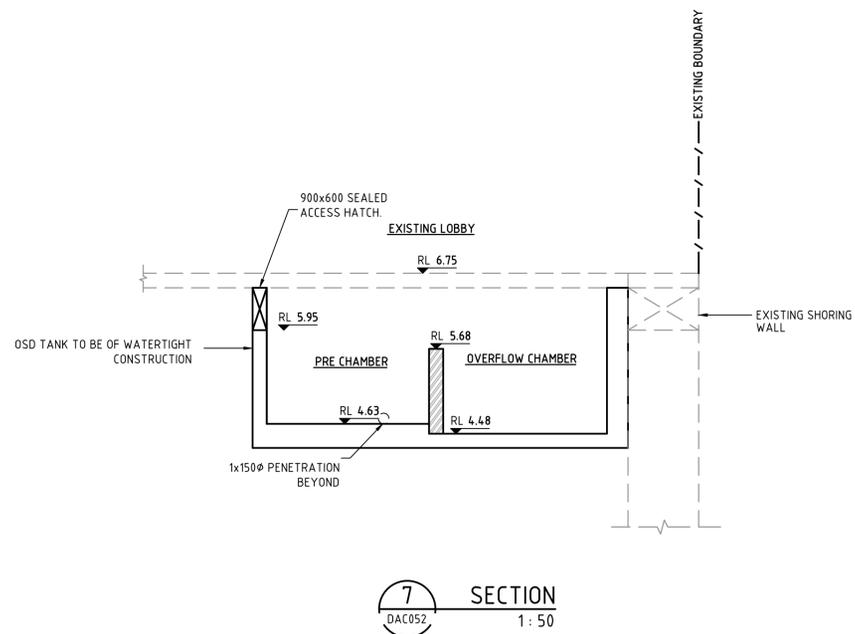
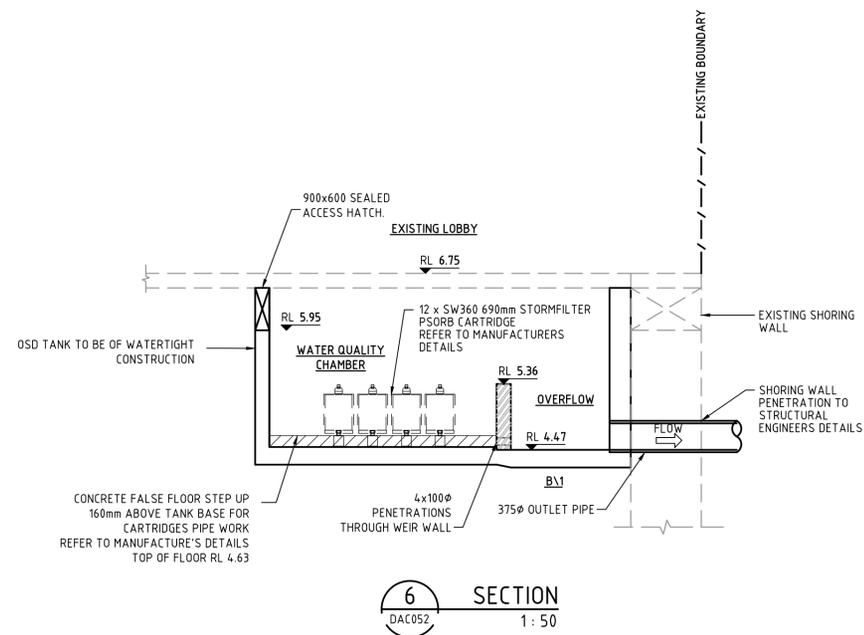
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Project
180
GEORGE STREET
PARRAMATTA

Title
WSUD TANK 2
PLAN AND DETAILS

Drawing No.	Project No.	Issue
DAC052	18-538	B





Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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		Designed G.J.	
Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

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Project
**180
GEORGE STREET
PARRAMATTA**

Title
**WSUD TANK 2
SECTIONS**

Drawing No. DAC053	Project No. 18-538	Issue B
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Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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Scales	1 : 250	Drawn GJ	
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Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

File: DAC055.dwg

Client



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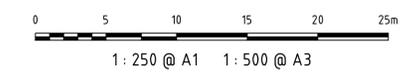
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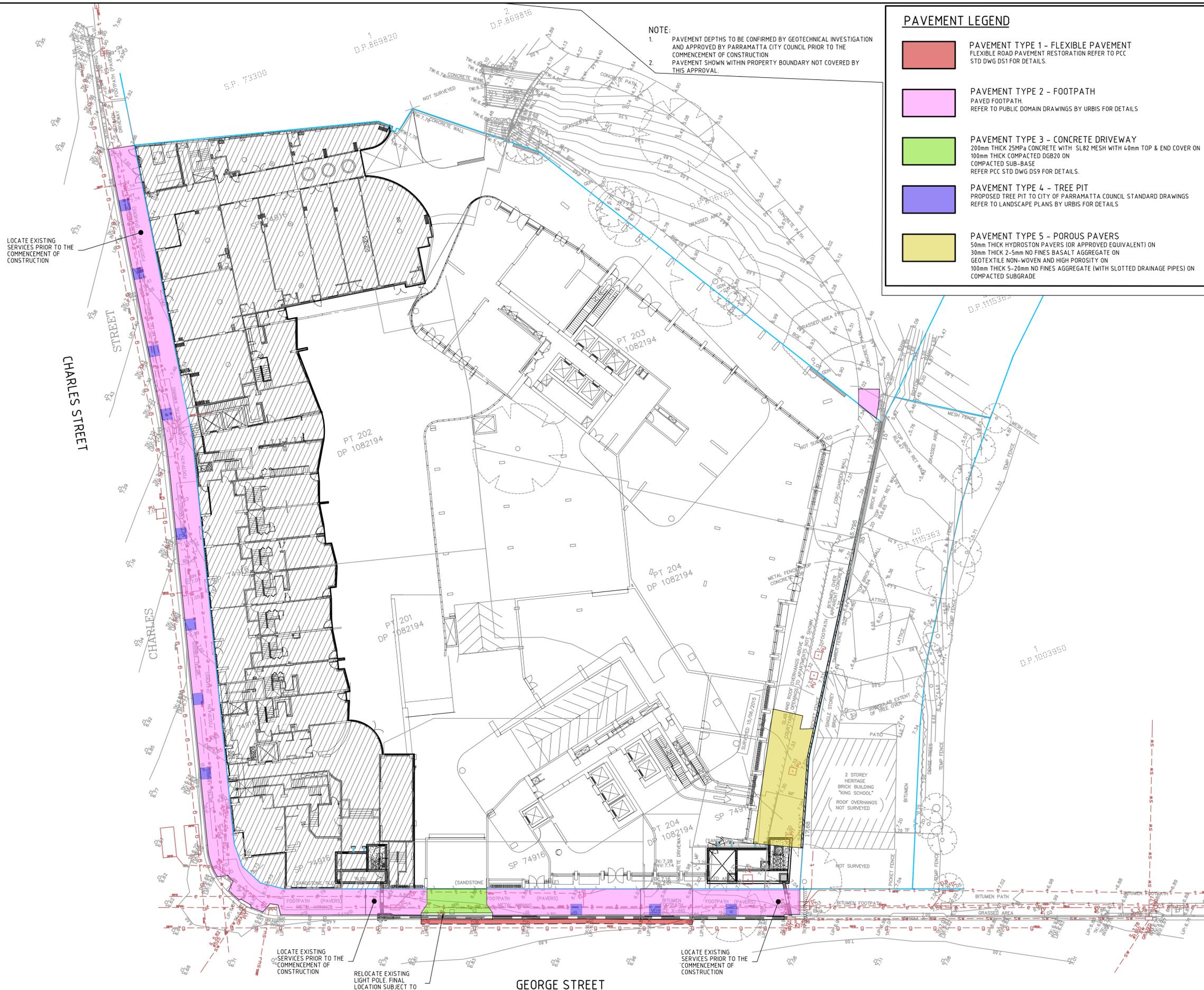
180
GEORGE STREET
PARRAMATTA

Title

STORMWATER DRAINAGE
CATCHMENT PLAN

Drawing No.	Project No.	Issue
DAC055	18-538	B





NOTE:
 1. PAVEMENT DEPTHS TO BE CONFIRMED BY GEOTECHNICAL INVESTIGATION AND APPROVED BY PARRAMATTA CITY COUNCIL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION
 2. PAVEMENT SHOWN WITHIN PROPERTY BOUNDARY NOT COVERED BY THIS APPROVAL.

PAVEMENT LEGEND

- PAVEMENT TYPE 1 - FLEXIBLE PAVEMENT**
FLEXIBLE ROAD PAVEMENT RESTORATION REFER TO PCC STD DWG DS1 FOR DETAILS.
- PAVEMENT TYPE 2 - FOOTPATH**
PAVED FOOTPATH.
REFER TO PUBLIC DOMAIN DRAWINGS BY URBIS FOR DETAILS
- PAVEMENT TYPE 3 - CONCRETE DRIVEWAY**
200mm THICK 25MPa CONCRETE WITH SL82 MESH WITH 40mm TOP & END COVER ON 100mm THICK COMPACTED DGB20 ON COMPACTED SUB-BASE
REFER PCC STD DWG DS9 FOR DETAILS.
- PAVEMENT TYPE 4 - TREE PIT**
PROPOSED TREE PIT TO CITY OF PARRAMATTA COUNCIL STANDARD DRAWINGS
REFER TO LANDSCAPE PLANS BY URBIS FOR DETAILS
- PAVEMENT TYPE 5 - POROUS PAVERS**
50mm THICK HYDROSTON PAVERS (OR APPROVED EQUIVALENT) ON 30mm THICK 2.5mm NO FINES BASALT AGGREGATE ON GEOTEXTILE NON-WOVEN AND HIGH POROSITY ON 100mm THICK 5-20mm NO FINES AGGREGATE (WITH SLOTTED DRAINAGE PIPES) ON COMPACTED SUBGRADE

Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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Grid	MGA	Approved	

File: DAC060.dwg

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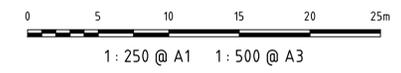
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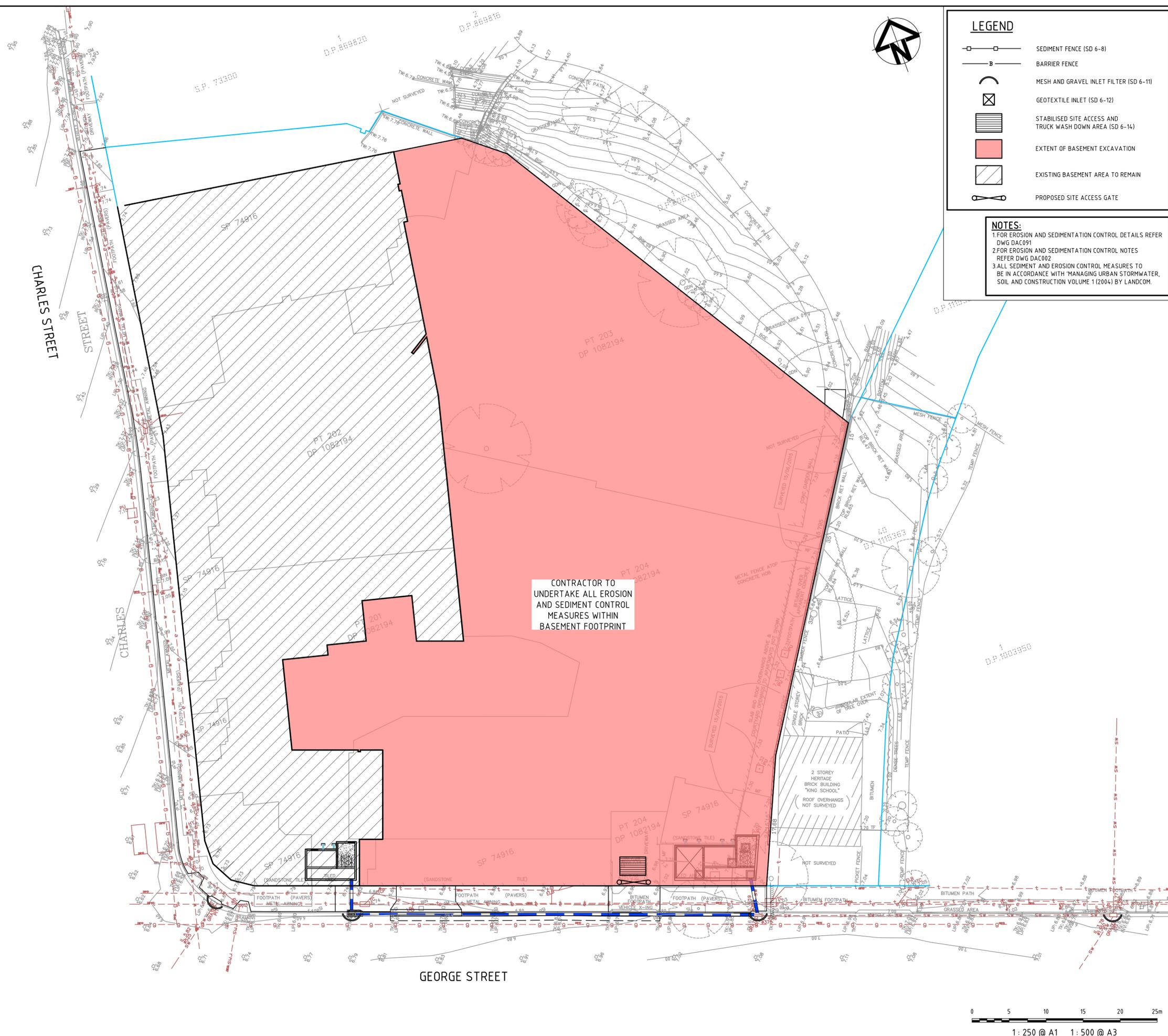
**180
GEORGE STREET
PARRAMATTA**

Title

**PAVEMENT, SIGNAGE AND
LINEMARKING PLAN**

Drawing No.	Project No.	Issue
DAC060	18-538	B





LEGEND

- SEDIMENT FENCE (SD 6-8)
- BARRIER FENCE
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- EXTENT OF BASEMENT EXCAVATION
- EXISTING BASEMENT AREA TO REMAIN
- PROPOSED SITE ACCESS GATE

NOTES:

1. FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER DWG DAC091
2. FOR EROSION AND SEDIMENTATION CONTROL NOTES REFER DWG DAC002
3. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, SOIL AND CONSTRUCTION VOLUME 1 (2004) BY LANDCOM.

CONTRACTOR TO UNDERTAKE ALL EROSION AND SEDIMENT CONTROL MEASURES WITHIN BASEMENT FOOTPRINT

Issue	Description	Date
B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

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Status	FOR APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION			
Scales	1 : 250	Drawn GJ	
		Designed GJ	
Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

File: DAC090.dwg

Client

KARIMBLA
CONSTRUCTION SERVICES (NSW)
PTY LIMITED

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Project

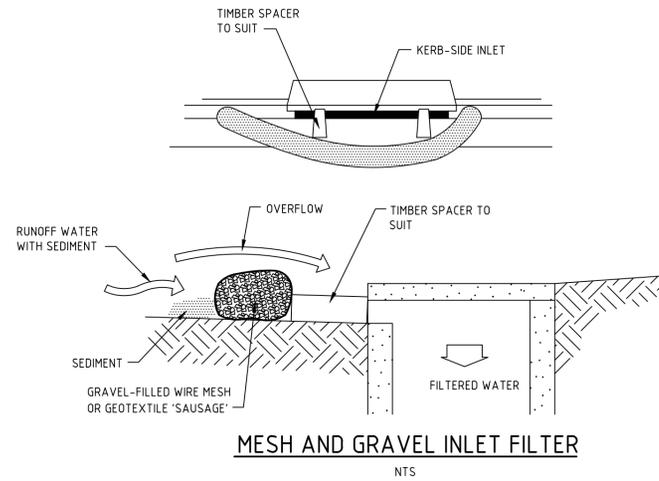
**180
GEORGE STREET
PARRAMATTA**

Title

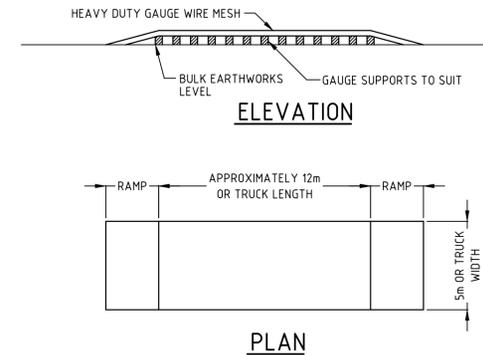
**SEDIMENTATION AND
EROSION CONTROL
PLAN**

Drawing No.	Project No.	Issue
DAC090	18-538	B



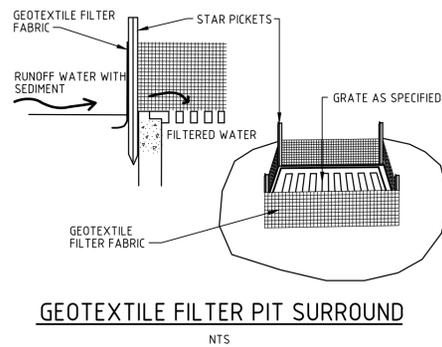


MESH AND GRAVEL INLET FILTER
NTS

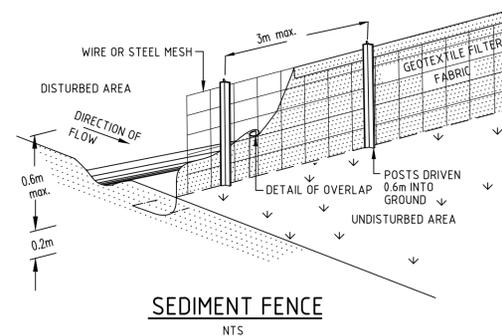


**TEMPORARY CONSTRUCTION EXIT
(WASH DOWN DETAIL)**
SCALE 1:200

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.



GEOTEXTILE FILTER PIT SURROUND
NTS



SEDIMENT FENCE
NTS

B	ISSUE FOR APPROVAL	29-11-18
A	ISSUE FOR APPROVAL	15-07-18

Issue	Description	Date
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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
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Scales	AS SHOWN	Drawn G.J.	
		Designed G.J.	
Height Datum	AHD	Checked AT	
Grid	MGA	Approved	

File: DAC091.dwg

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Project

**180
GEORGE STREET
PARRAMATTA**

Title

**SEDIMENTATION AND
EROSION CONTROL
DETAILS**

Drawing No.	Project No.	Issue
DAC091	18-538	B