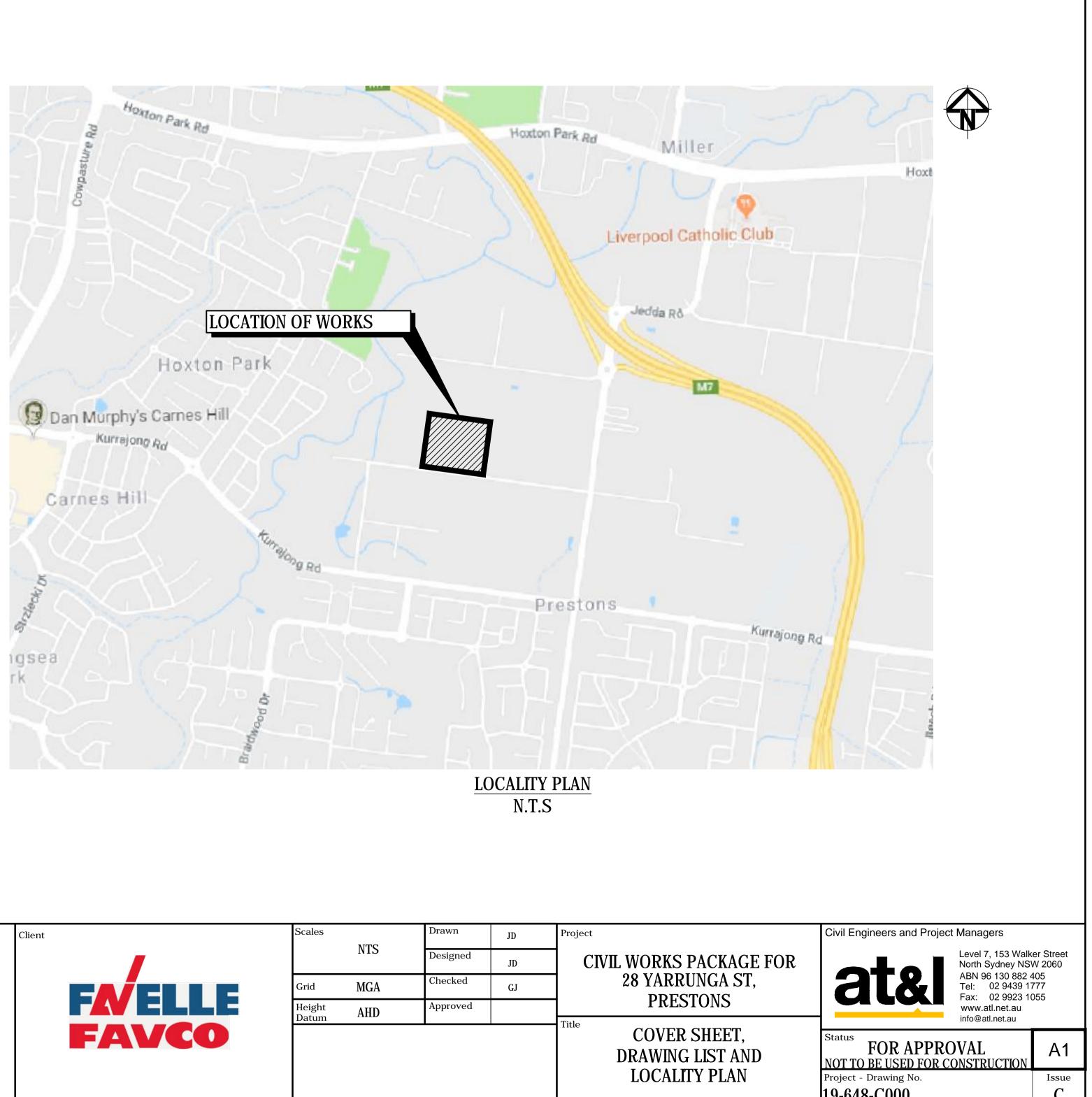
CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, PRESTONS, NSW 2170 DEVELOPMENT APPLICATION

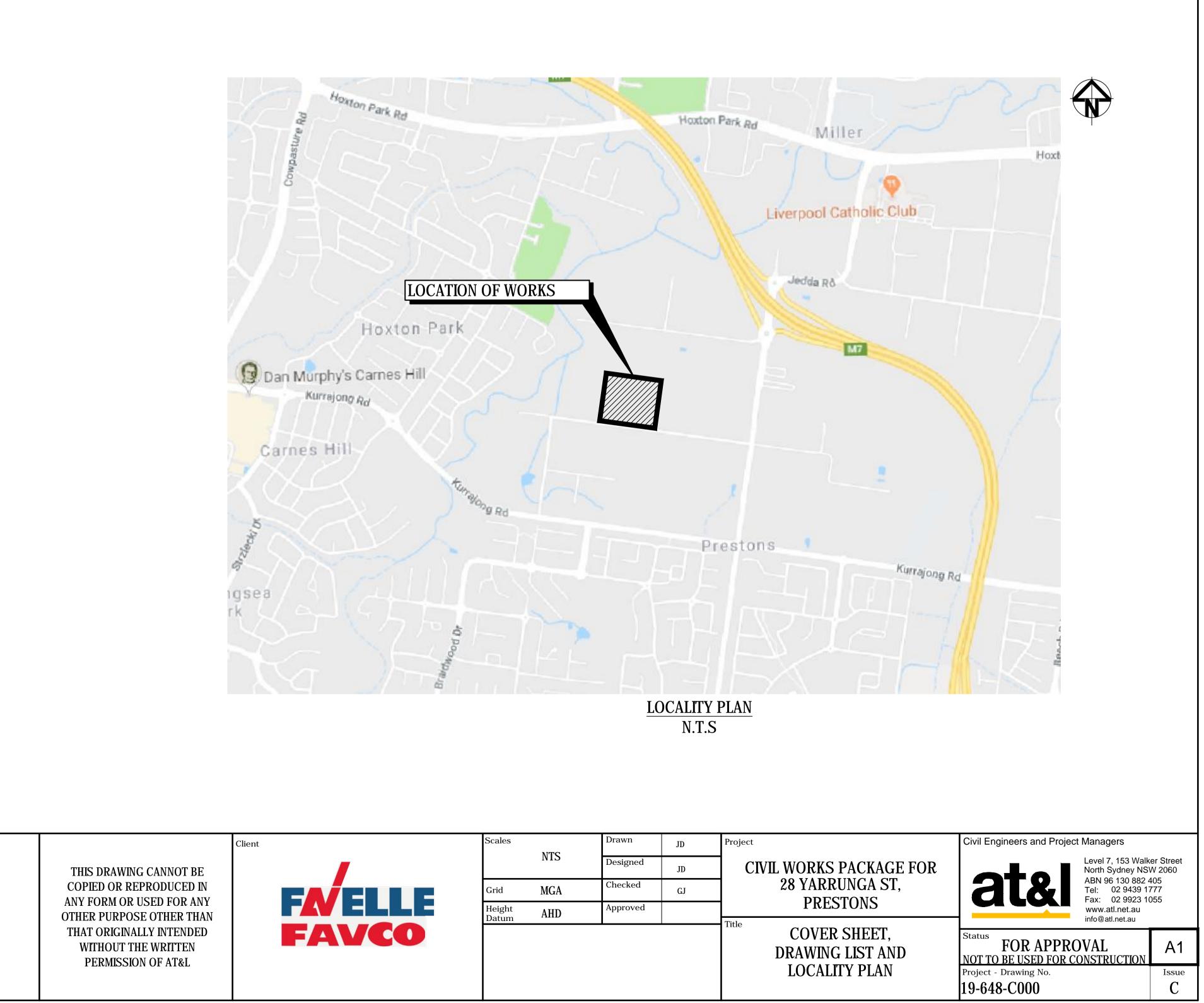
DRAWING LIST

19-648-C000	COVER SHEET, DRAWING LIST AND LOCALITY PLAN
19-648-C001	GENERAL NOTES AND LEGENDS
19-648-C002	GENERAL ARRANGEMENT PLAN
19-648-C003	SITEWORKS DETAILS
19-648-C011	TYPICAL SITE SECTIONS SHEET 1
19-648-C012	TYPICAL SITE SECTIONS SHEET 2
19-648-C015	ROAD LONGITUDINAL SECTIONS YARRUNGA STREET (MC01)
19-648-C035	PAVEMENT PLAN
19-648-C041	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
19-648-C042	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
19-648-C043	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
19-648-C044	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 4
19-648-C045	ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 5
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19-648-C050	STORMWATER DRAINAGE DETAILS SHEET 1
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19-648-C055	OVERALL STORMWATER CATCHMENT PLAN
19-648-C056	STORMWATER CATCHMENT PLAN
19-648-C061	STORMWATER LONGITUDINAL SECTIONS SHEET 1
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19-648-C070	OSD TANK 1 PLAN AND SECTIONS
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19-648-C075	SERVICES AND UTILITIES CO-ORDINATION PLAN
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19-648-C081	EROSION AND SEDIMENTATION CONTROL DETAILS
19-648-C090	ROAD CROSS SECTIONS SHEET 1
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19-648-C096	RETAINING WALL LONGSECTIONS SHEET 2

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SITEWORKS NOTES

- 1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
- 2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE **REPORTED TO AT & L.**
- 3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- 4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 5. 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)
- 6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- 7. ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
- 8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 (UNBOUND). RMS. 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 50m³ OF BASECOURSE MATERIAL PLACED.
- 9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED.
- 10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
- 11. 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.
- 12. 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.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY S.J. DIXON 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.

EB-ELECTRICITY BOX FL-FLOOR LEVEL LH-SEWER LAMP HOLE LP-LIGHT POLE **PB-PETROL BOWSER PP-POWER POLE RL-ROOF LEVEL** TEL-TELSTRA PIT SV-STOP VALVE **TG-TOP GUTTER**

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 CAN NOT 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.

CONCRETE NOTES

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- 2. 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	SPECIFIED	NOMINAL
	AT 28 DAYS	SLUMP	AGG. SIZE
VEHICULAR BASE KERBS, PATHS, AND PITS	32 25	60 80	20 20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE
- WITH AS 1379. 3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
- 4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
- 5. 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.
- 6. 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.M.S. SPECIFICATION R83.
- 7. REINFORCEMENT SYMBOLS:
- N DENOTES GRADE 450 N BARS TO AS/NZS 4671 GRADE N R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS/NZS 4671
- SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS/NZS 4671 NUMBER OF BARS IN GROUP - BAR GRADE AND TYPE

17 N 20250

NOMINAL BAR SIZE IN mm – SPACING IN mm THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE **REFERENCE NUMBER FOR FABRIC TO AS/NZS 4671.**

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

 $-\frac{25}{125}$ MIN LAP TWO WIRES

KERBING NOTES

- 1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.
- 2. 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).
- 3. 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.
- 4. 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.
- 5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
- 6. 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.

			Bar Scales
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100mm on Original

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA: (A) AVERAGE RECURRENCE INTERVAL: 1:100 YEARS ROOFED AREAS TO SURCHARGE PIT 1:20 YEARS EXTERNAL PAVEMENTS (B) RAINFALL INTENSITIES:

TIME OF CONCENTRATION: 5 MINUTES 1:100 YEARS= 229 mm/hr 1:20 YEARS= 179 mm/hr (C) RUNOFF COEFFICIENTS:

IN HEIGHT.

C 100 =1.0 ROOF AREAS: EXTERNAL PAVEMENTS: C 20 =0.95 2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.

3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS. 4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.

5. 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

6. PIPES TO BE INSTALLED TO TYPE HS3 (ROAD) HS2 (LOTS) SUPPORT IN ACCORDANCE WITH AS 3725 (2007) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHÉRE PIPE IS UNDER PAVEMENTS BACKFILI 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)

7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2006) AND AS/NZS 3500 3.2

8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.

9. 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. 11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL

2. GRATES AND COVERS SHALL CONFORM TO AS 3996.

13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 7.5.2.1 4. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

5. 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.

JOINTING NOTES

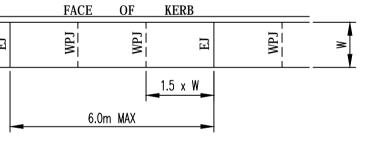
PEDESTRIAN PAVEMENT JOINTS

1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)

2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES. 3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF

1.5 x WIDTH OF THE PAVEMENT. 4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.

5. PEDESTRIAN PAVEMENT JOINT DETAIL.



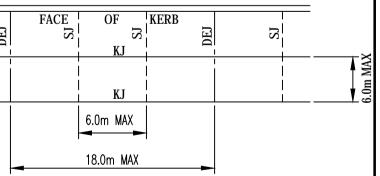
VEHICULAR PAVEMENT JOINTS

6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)

7. KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES

8. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m **CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 18.0m CENTRES**

9. VEHICULAR PAVEMENT JOINT DETAIL.



EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- 1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
- 2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH a. LOCAL AUTHORITY REQUIREMENTS **b. EPA REQUIREMENTS**

c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION". 4th EDITION. MARCH

- 3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED. PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
- 5. 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

- 6. 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:
- (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
- (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL
- (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
- (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
- (F) 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

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

SEDIMENT CONTROI

- 9. 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.
- 10. 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.
- **11. 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.
- 12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

- 13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- 14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
- (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
- (B) ENSURING THAT NOTHING IS NAILED TO THEM (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
- (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
- (II) 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**
- (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

EROSION AND SEDIMENT CONTROL NOTES (CONTINUED)

STAGING

SUITABLE EROSION AND SEDIMENT CONTROLS SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT ALL STAGES OF WORKS, INCLUDING AT COMPLETION OF THE BULK EARTHWORKS WHERE SHOWN ON AT&L DRAWINGS OR WHERE DIRECTED BY THE SUPERINTENDENT OR LIVERPOOL CITY COUNCIL'S ENGINEERS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, DOCUMENTING, INSTALLING AND MAINTAINING THE SEDIMENT AND EROSION CONTROLS **REQUIRED TO SUIT THE SELECTED CONSTRUCTION STAGING. THIS IS TO** BE DOCUMENTED IN THE FORM OF A SOIL AND WATER MANAGEMENT PLAN TO BE DEVELOPED BY THE CONTRACTOR AND APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCEMENT.

SUCH CONTROLS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT, LIVERPOOL CITY COUNCIL'S SPECIFICATIONS AND THE OFFICE OF ENVIRONMENT AND HERITAGE'S 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION. LANDCOM, (4TH EDITION) MARCH 2004 (REPRINTED 2006) (THE "BLUE BOOK"). VOLUME 1 AND VOLUME 2.

CONSTRUCTION SPECIFICATION

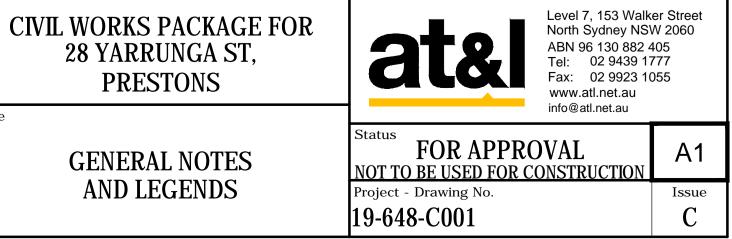
- 1. THESE DRAWINGS SHOULD BE READ IN CONJUCTION WITH LIVERPOOL
- CITY COUNCIL'S LATEST DRAWINGS AND SPECIFICATIONS. 2. WHERE THERE IS A CONFLICT THE FOLLOWING IS TO OCCUR
- 2.1. NOTIFY THE DESIGN ENGINEER AND/OR SUPERINTENDENT 2.2. THE LIVERPOOL CITY COUNCIL'S SPECIFICATION TAKES PRECEDENT

Drawn Scales Project JD Client N/A Designed JD THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN Checked FNELLE MGA GJ ANY FORM OR USED FOR ANY Height Approved AHD OTHER PURPOSE OTHER THAN Datum Title FAVCO THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

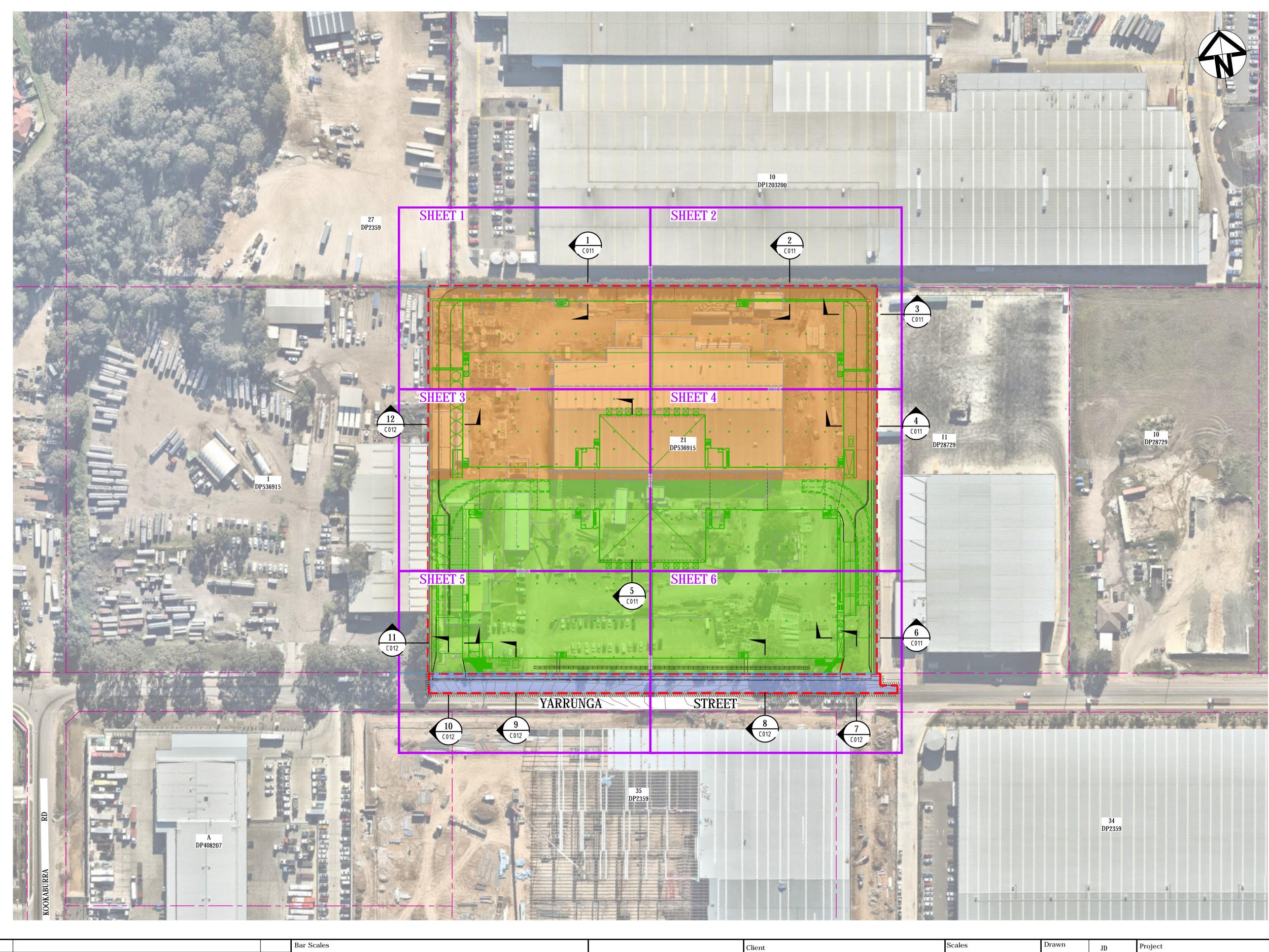


CONTRACTOR SHALL CALL; DIAL BEFORE **YOU DIG 1100** PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

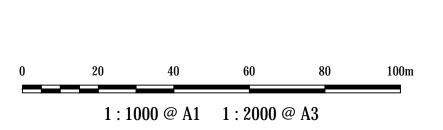
Civil Engineers and Project Managers



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С	REISSUED FOR APPROVAL	21-11-19
В	ISSUED FOR APPROVAL	27-09-19
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	1:1000	Designed	JD	
Grid	MGA	Checked	GJ	
Height Datum	AHD	Approved		
				Title

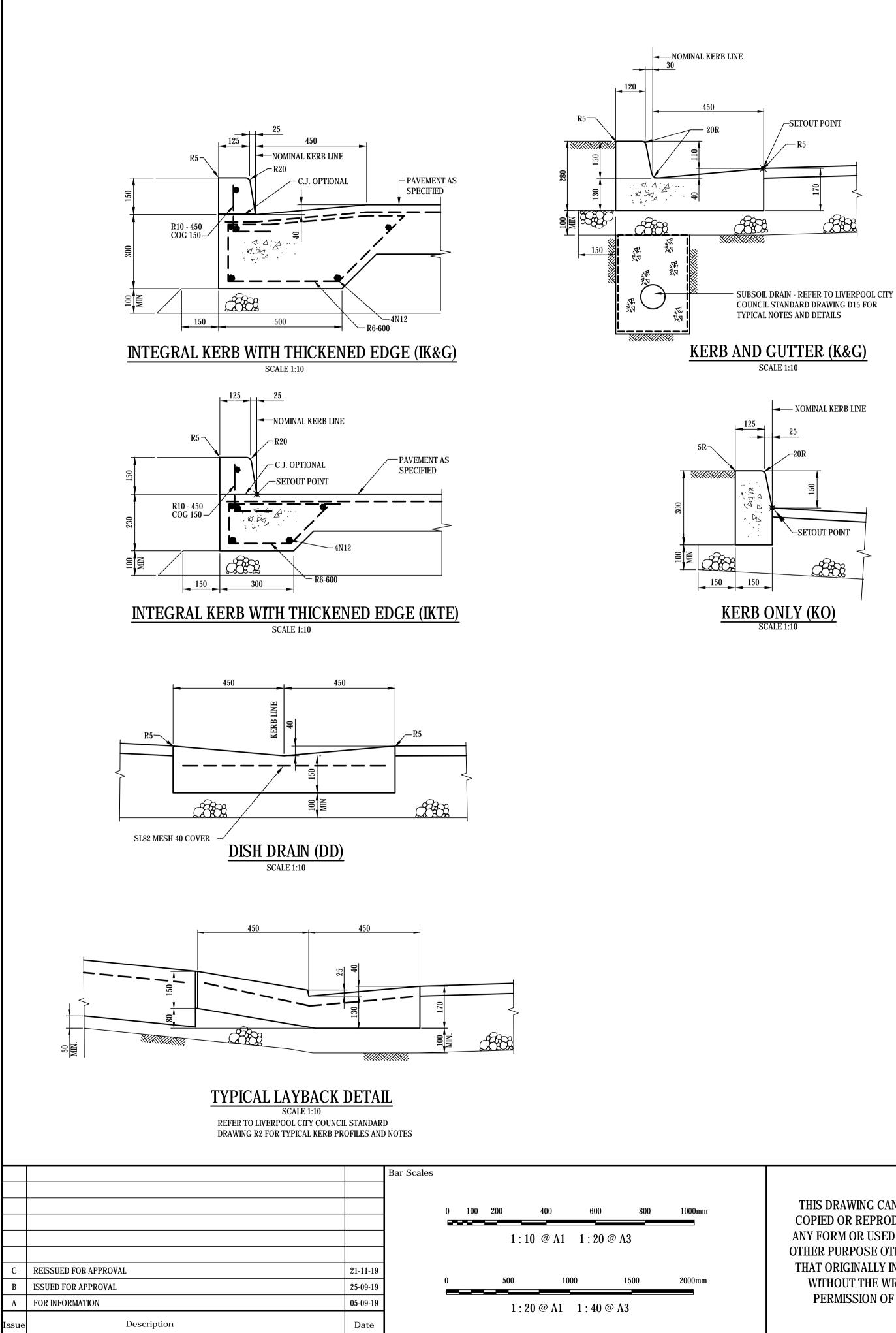
LEGEND

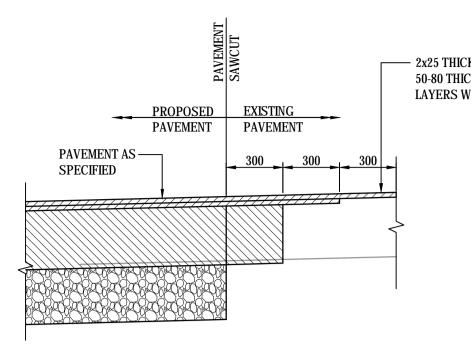
PROPOSED STAGE 1 EXTENTS
PROPOSED STAGE 2 EXTENTS
PROPOSED ROADWORKS EXTENTS
 EXTENT OF WORKS
 STAGING EXTENTS
 SITE BOUNDARY
 EXISTING ADJOINING BOUNDARIES

NOTE: STAGING INDICATIVE ONLY TO BE CONFIRMED DURING DETAILED DESIGN.

oject CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, PRESTONS de GENERAL ARRANGEMENT PLAN Civil Engineers and Project Managers Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 19-648-C002 C

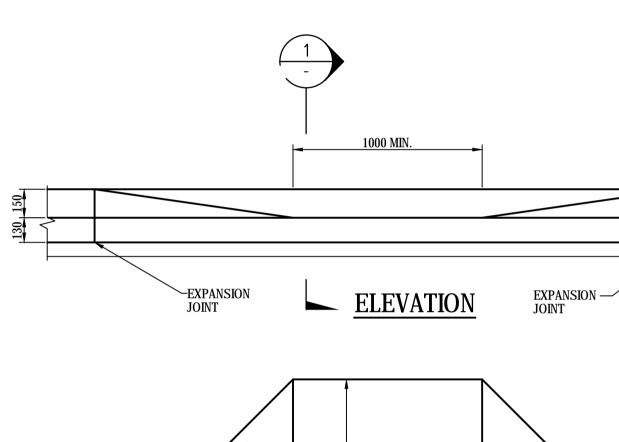
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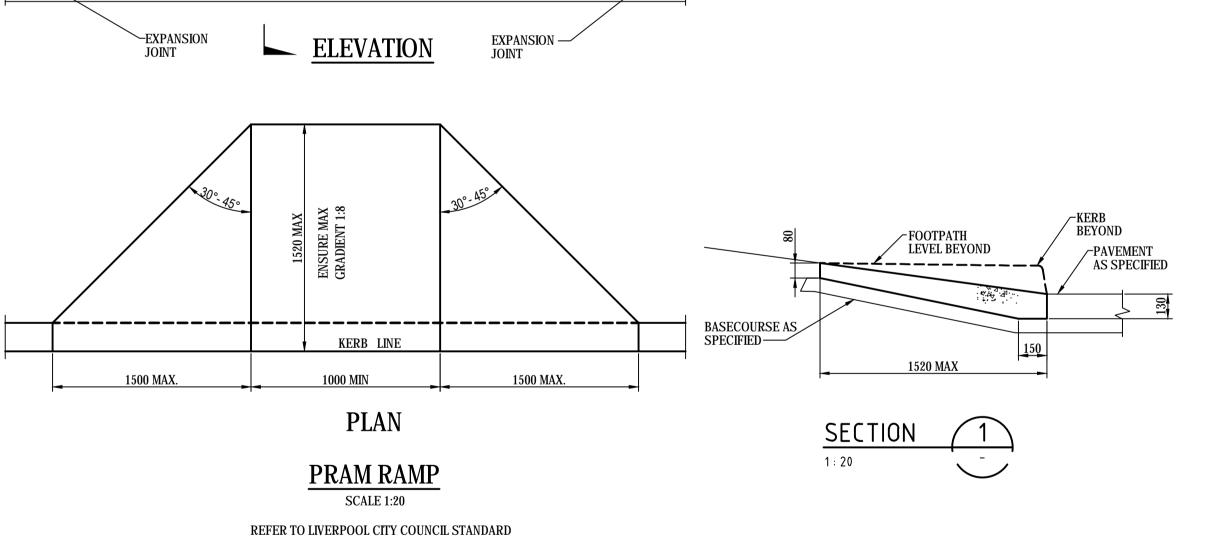




TYPICAL JOINT DETAIL PROPOSED FULL DEPTH ASHPHALT TO EXISTING GRANULAR BASE PAVEMENT

SCALE 1:20

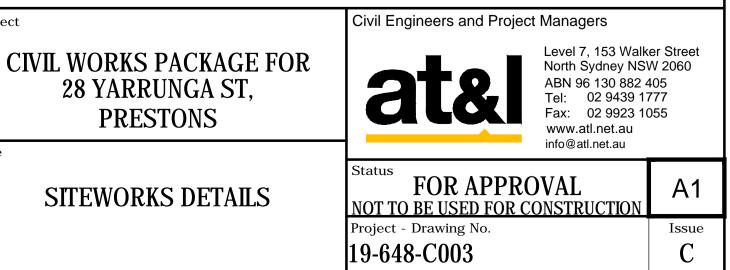




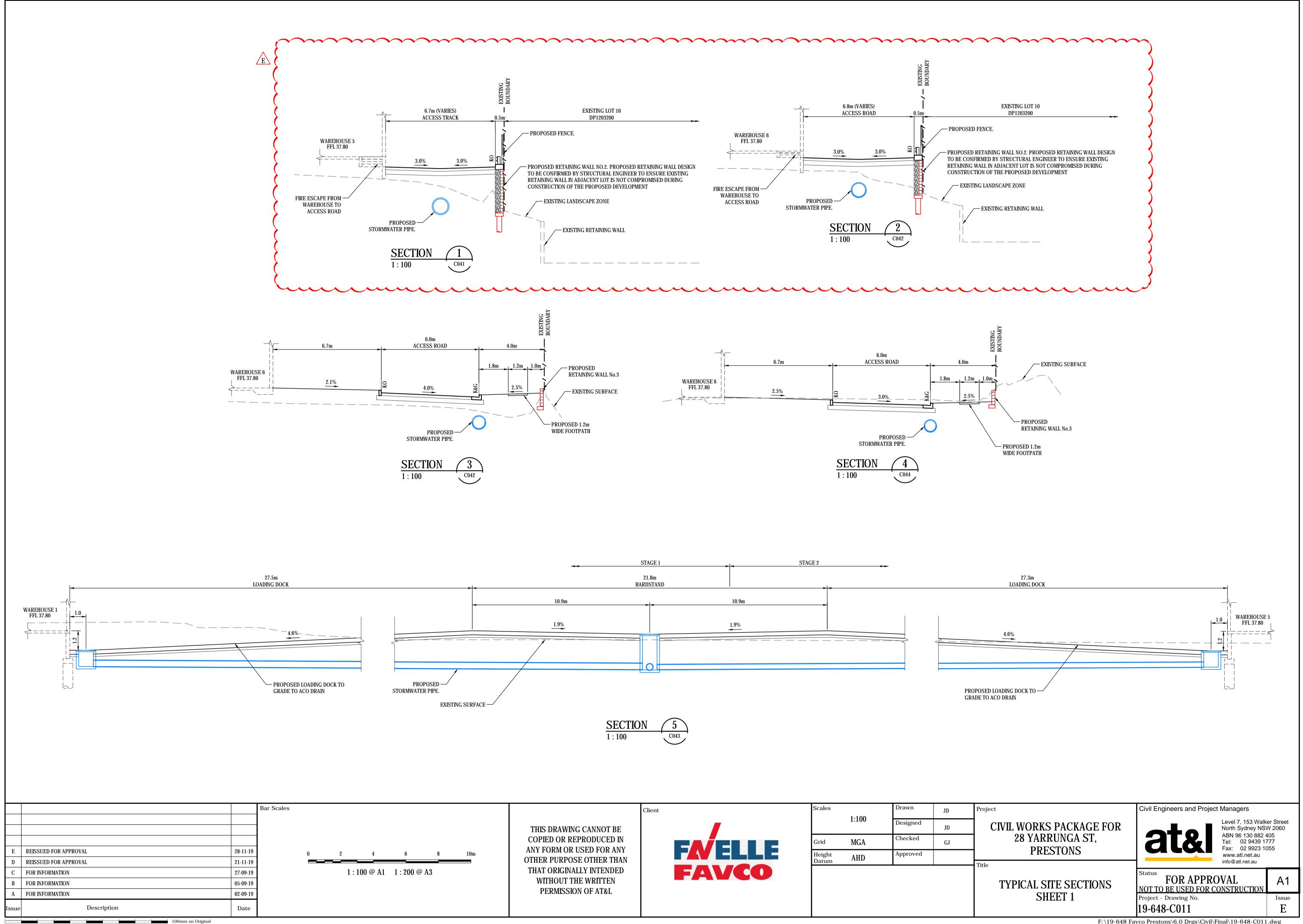
DRAWING R17 FOR TYPICAL NOTES AND SEPCIFICATIONS

	Client		Scales		Drawn	JD	Project
THIS DRAWING CANNOT BE				AS SHOWN	Designed	JD	CI
COPIED OR REPRODUCED IN			Grid	MGA	Checked	GJ	1
ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN			Height Datum	AHD	Approved		T:-1
THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN		FAVCO					Title
PERMISSION OF AT&L							

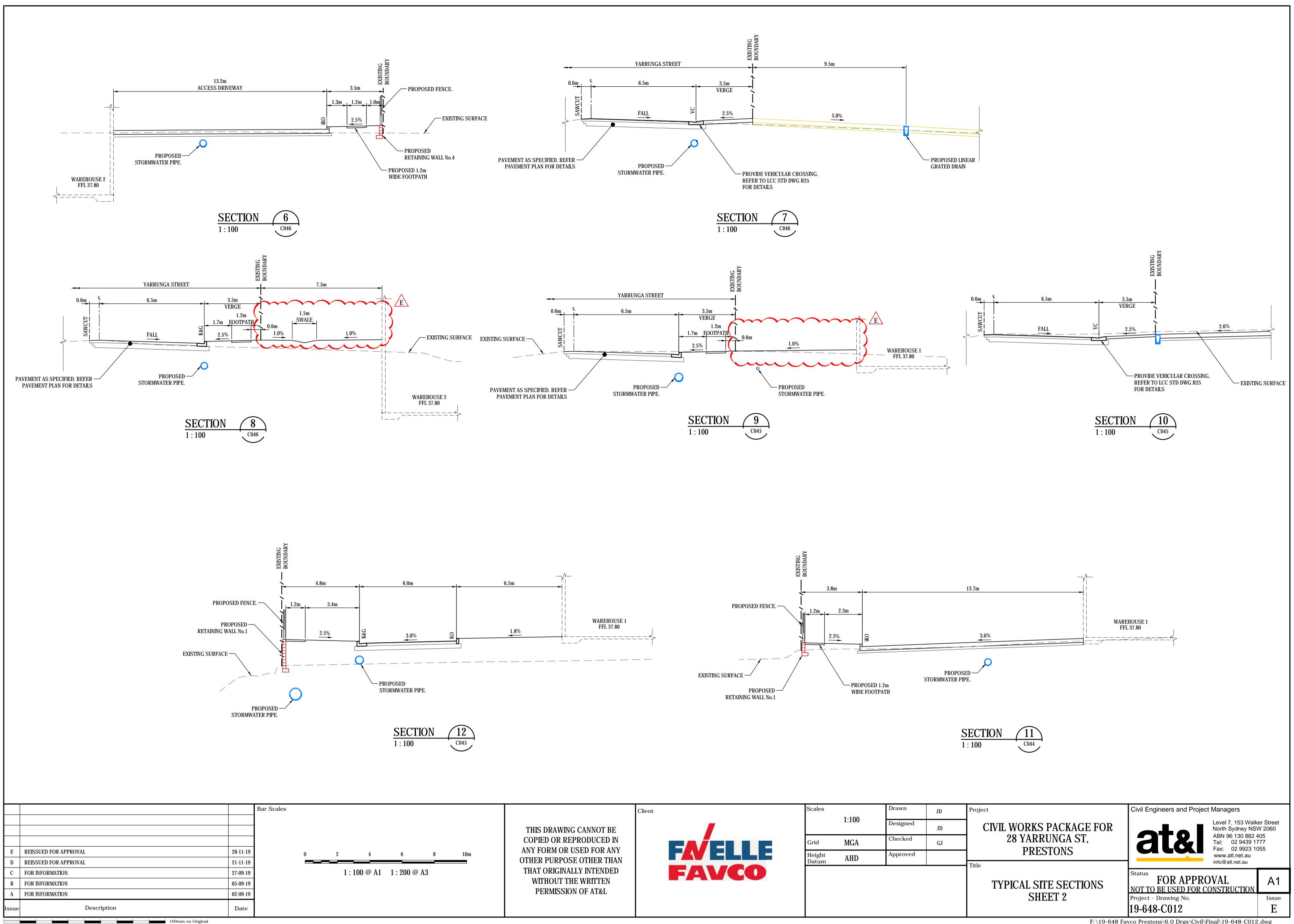
— 2x25 THICK ASPHALT ON 50-80 THICK ASPHALT (AC20) LAYERS WITH 300 WIDE OVERLAP



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HORIZONTAL VC LENGTH							
GRADE Datum RL33	-	<u>≤ 4.5%</u> >	<	4.4%		<	4.4%
PROPOSED SURFACE LEVEL	36.240	36.750	37.128		37.820	38.003	
EXISTING SURFACE LEVEL		36.750	37.152		37.849	38.000	
CHAINAGE	0.000	11.349	20.000		35.832	40.000	

	ABOVE FOR CONTINUATION								
HORIZONTAL	OR COI								
VC LENGTH	BOVE F								
GRADE Datum RL39	REFER A	1.6% >	≤ 1.39	<u>6</u> >	< 1%	>	< 0.5%	>	-0.4%
PROPOSED SURFACE LEVEL	42.191	42.350	42.476	42.590	42.697	42.740		42.840	
EXISTING SURFACE LEVEL	42.193	42.345	42.420	42.588	42.696	42.731		42.825	
CHAINAGE	180.000	190.162	200.000	208.923	220.000	224.457		244.735	255.527

			Bar Scales						
			Bui Scales						
				0	1	9	9		۲
				0	1	2	3	4	5m
					1:	50 @ A1	1 : 100 @		
				0	5	10	15	20	25m
В	REISSUED FOR APPROVAL	21-11-19							
А	ISSUED FOR APPROVAL	27-09-19			1 : 250 @ A1 1 : 500 @ A3				
Issue	Description	Date							

	Γ_								
~		4.2%		3.2%		_	2.3%		
								>	
0	9	6	0		_	0	4	0	
38.810	38.876	39.719	39.800	40.381		40.580	40.894	41.130	
38.	38.	39.	39.	40.	40.	40.	40.	41.	
5	5		8	20	7	5	1	6	
38.805	38.872	39.725	39.808	40.352	00	40.595	40.851	41.159	
38.	38.	30.	39.	10.1	1 0.	10.	10.	11.	
					1	7	7	4.	
10	6		~		5		0		
58.435	60.000	80.000	81.932	100.000	n n	106.195	120.000	130.351	
58.	60.	80.0	81.	06	N.	06.	20.	30	
_,	<u> </u>	~	~	10	-	1	11	11	

YARRUNGA STREET (MC01) LONGITUDINAL SECTION SCALE 1:250 HORL 1:50 VERT.

YARRUNGA STREET (MC01) LONGITUDINAL SECTION SCALE 1:250 HORL 1:50 VERT.

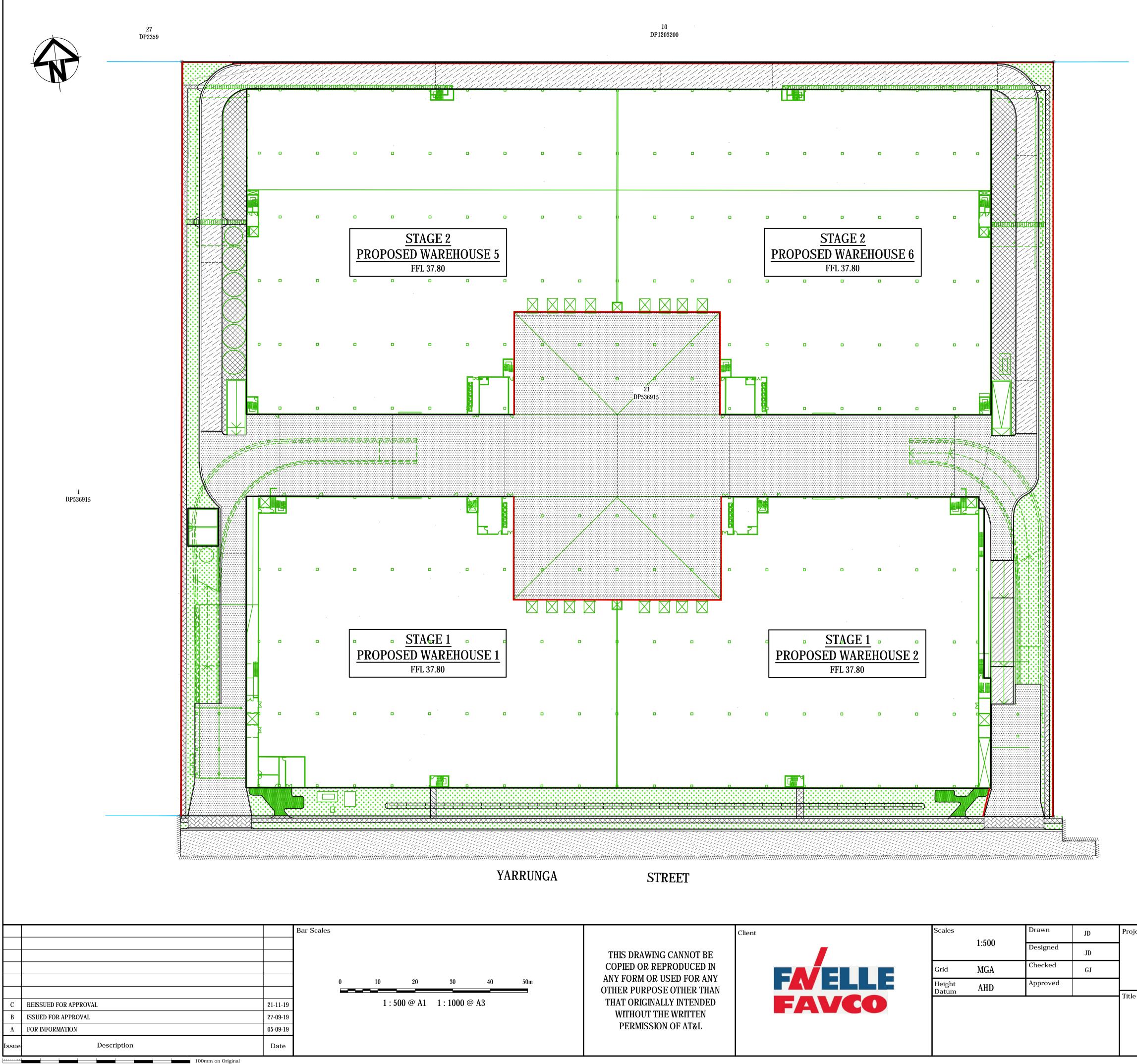
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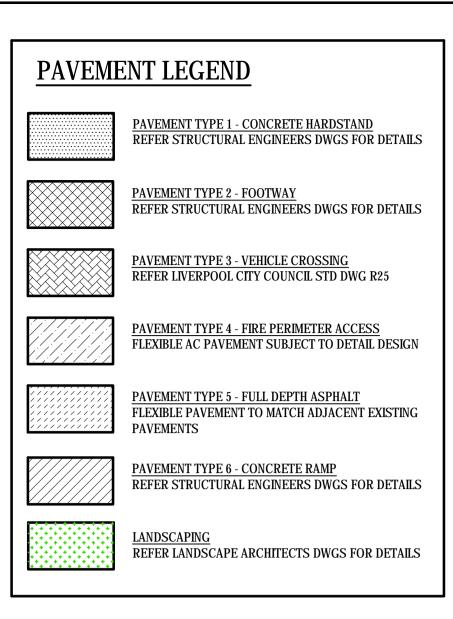


Scales AS SHOWN		Drawn JD		Project	Civil Engineers and Project Managers			
		Designed	JD	CIVIL WORKS PACKAGE FOR	Level 7, 153 Walk North Sydney NS	W 2060		
Grid	MGA	Checked	GJ	28 YARRUNGA ST,	ABN 96 130 882 4 Tel: 02 9439 1 Fax: 02 9923 1	777		
Height AHD Datum AHD	AHD	Approved		PRESTONS	www.atl.net.au info@atl.net.au			
				ROAD LONGITUDINAL SECTIONS	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1		
				YARRUNGA STREET (MC01)	Project - Drawing No.	Issue		
					19-648-C015	B		

					REFER BELOW FOR CONTINUATION
	2.5%		1.9%	1.6%	
41.371	41 680	41.827	42 090	42.191	
41.325	41 690	41.750	42.091	42.193	
140.000	152 416	160.000	173.546	180.000	

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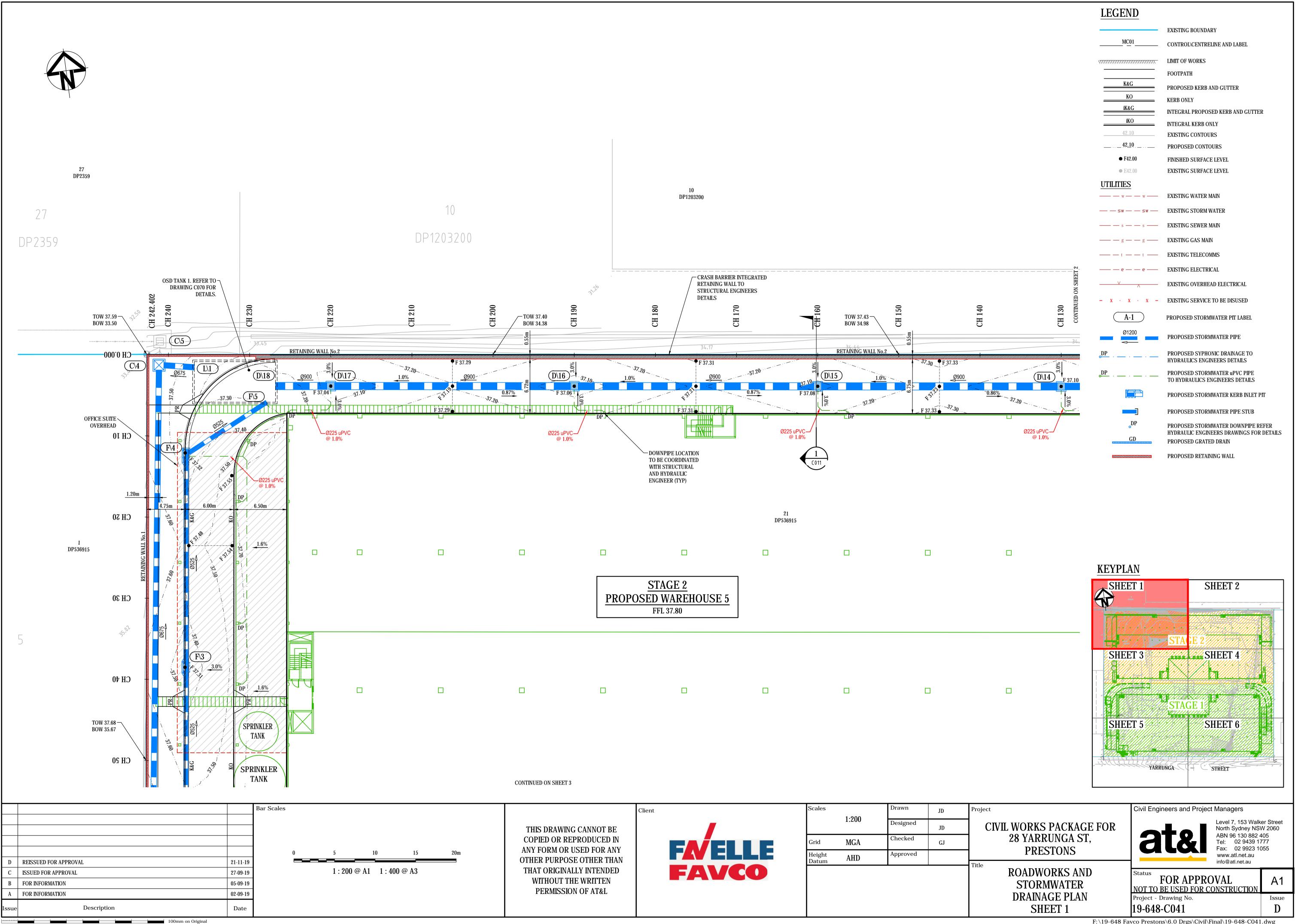




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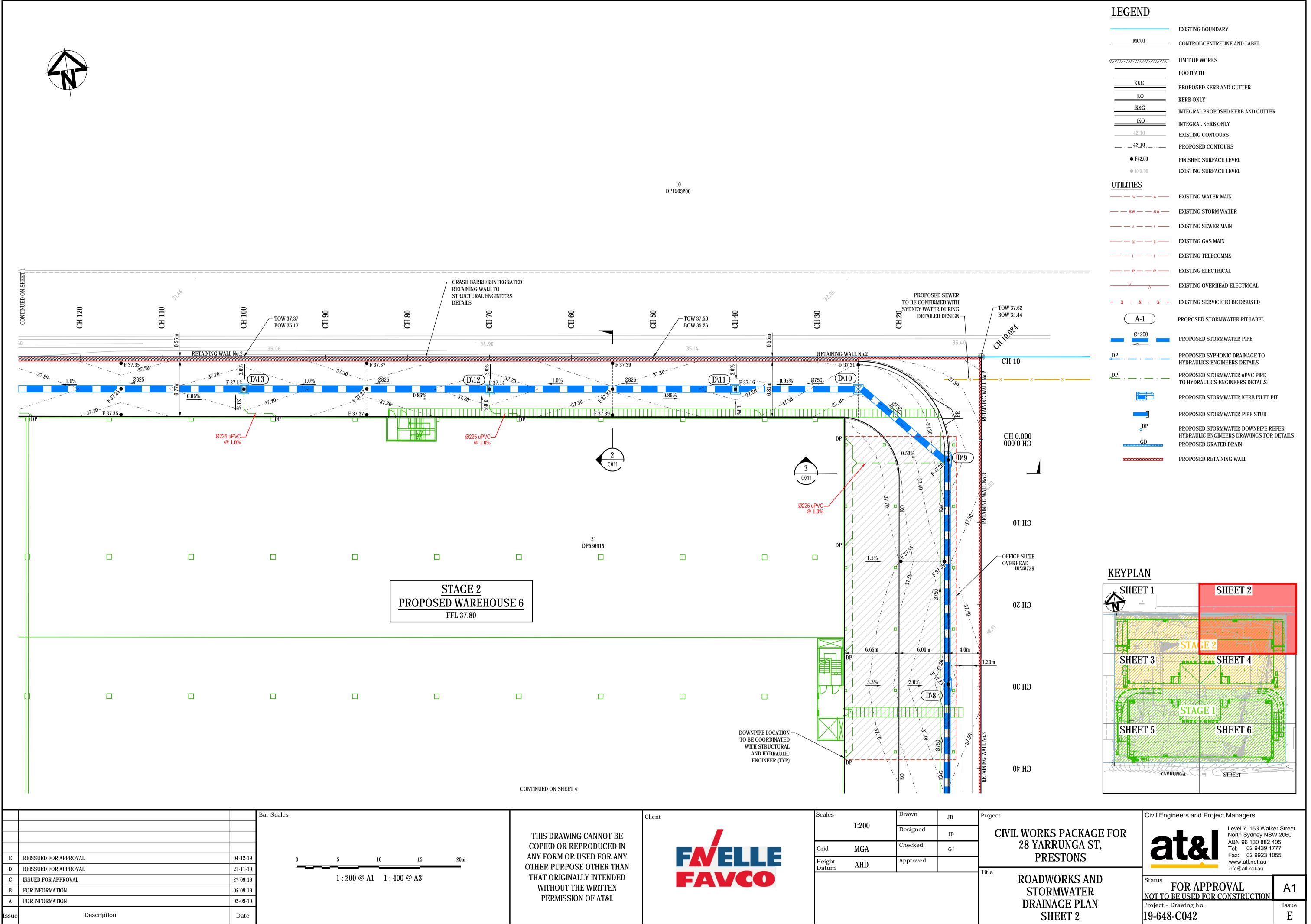
ect	Civil Engineers and Project Managers				
CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, PRESTONS	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au				
	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1			
PAVEMENT PLAN	Project - Drawing No.	Issue			
	19-648-C035	С			

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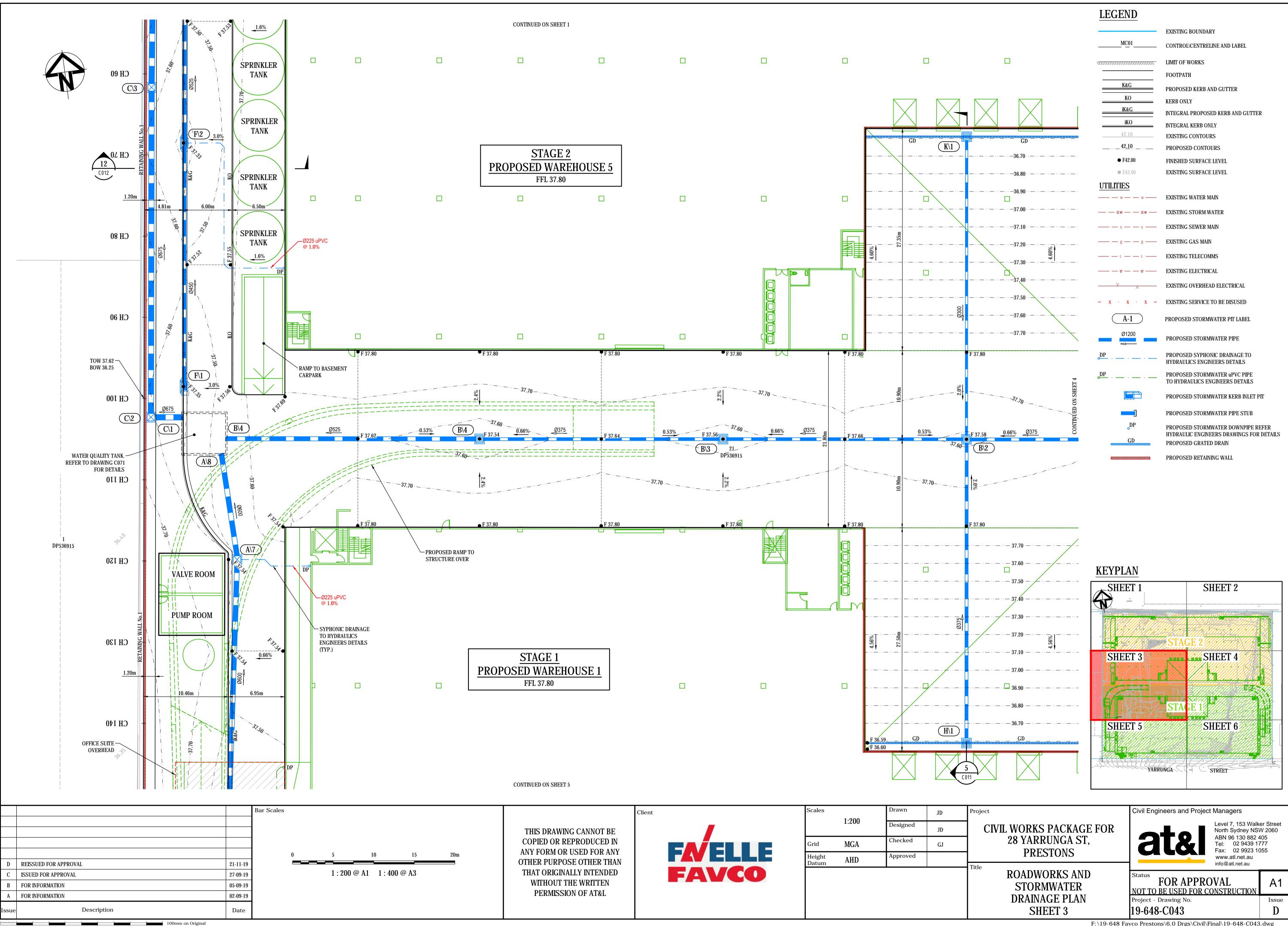
	Client	Scales		Drawn	JD	Project
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COPIED OR REPRODUCED IN		Grid]	MGA	Checked	GJ	1
ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN		Height Datum	AHD	Approved		
THAT ORIGINALLY INTENDED WITHOUT THE WRIITEN PERMISSION OF AT&L	FAVCO					– Title

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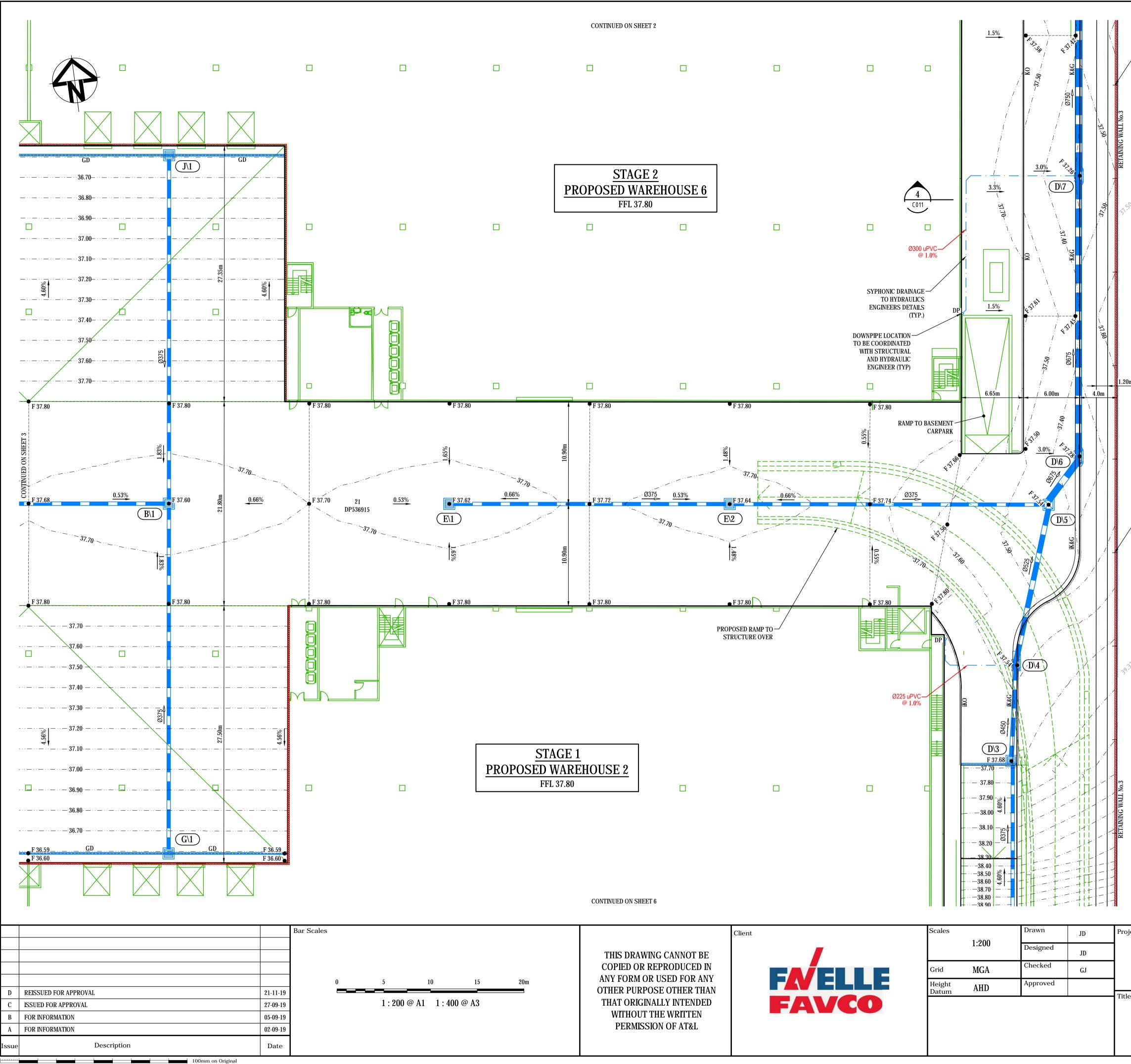
Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Project - Drawing No.	Issue
19-648-C042	E

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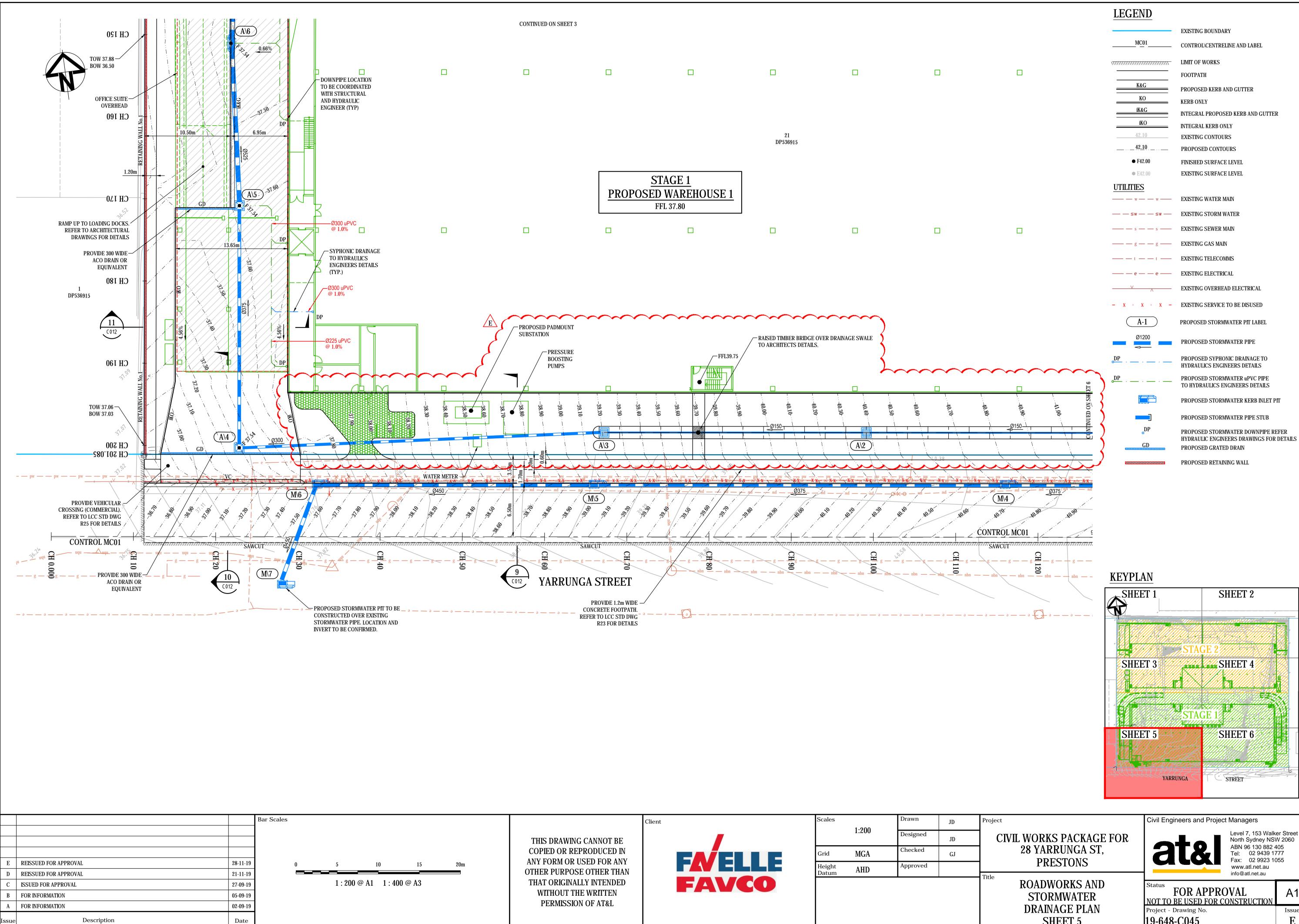
ject	Civil Engineers and Project Managers				
CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, PRESTONS	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au info@atl.net.au				
e ROADWORKS AND STORMWATER	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1			
DRAINAGE PLAN	Project - Drawing No.	Issue			
SHEET 3	19-648-C043	D			

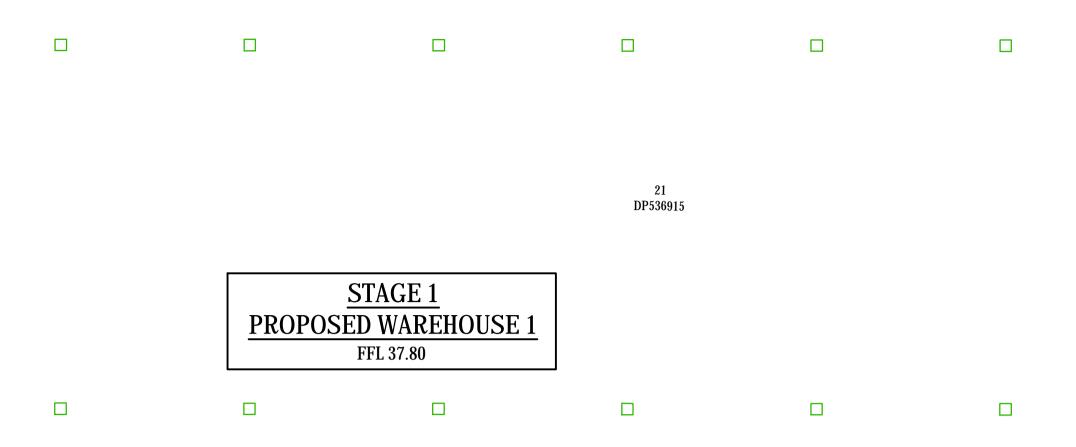
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1		I ¹ .		8	LEGEND	
	1.5%	F.37.58 / 4.55	••••••••••••••••••••••••••••••••••••••	TOW 38.18 BOW 37.57	MC01	EXISTING BOUNDARY CONTROL\CENTRELINE AND LABEL
			K&G		111111111111111111111111111111111111111	LIMIT OF WORKS
	1	K(-37.50	×	CH 20		FOOTPATH
	/	. / / / / / / / / / / / / / / / / / / /			<u>K&</u> G	PROPOSED KERB AND GUTTER
				. No.3	<u> </u>	KERB ONLY
			-37,50	: WALL	iKO	INTEGRAL PROPOSED KERB AND GUTTER INTEGRAL KERB ONLY
	; / :			RETANING WALL No.3 11 DD58220	42.10	EXISTING CONTOURS
	/ : /	3.0%		D1 20720	42.10	PROPOSED CONTOURS
	3.3%	\\\		СН 60	• F42.00	FINISHED SURFACE LEVEL
·	37.70		37.50	37.50	• E42.00 UTILITIES	EXISTING SURFACE LEVEL
				. у.	<u> </u>	EXISTING WATER MAIN
		_37.40			— — sw — — sv	EXISTING STORM WATER
PVC		MARCHAR MA	X8C		s s	EXISTING SEWER MAIN
			7	CH 70	g g	EXISTING GAS MAIN
					t t	EXISTING TELECOMMS
DP	1.5%	F37.81			——————————————————————————————————————	EXISTING ELECTRICAL
		7	37.60		V^	EXISTING OVERHEAD ELECTRICAL
					$-\mathbf{x} \cdot \mathbf{x} \cdot \mathbf{x}$	EXISTING SERVICE TO BE DISUSED
		37.50.		CH 80	(A-1)	PROPOSED STORMWATER PIT LABEL
	$ \rangle / $			1.20m_	Ø1200	PROPOSED STORMWATER PIPE
	6.65m	/ 6.00m /	<u> </u>		DP	PROPOSED SYPHONIC DRAINAGE TO
BASEMENT		37.40			•	HYDRAULICS ENGINEERS DETAILS
CARPARK		1313			<u>oDP</u>	PROPOSED STORMWATER uPVC PIPE TO HYDRAULICS ENGINEERS DETAILS
660		<u>3.0%</u>		06 HO		PROPOSED STORMWATER KERB INLET PIT
F.37.66]	PROPOSED STORMWATER PIPE STUB
		F.S.			oDP	PROPOSED STORMWATER DOWNPIPE REFER HYDRAULIC ENGINEERS DRAWINGS FOR DETAILS
					GD	PROPOSED GRATED DRAIN
× 150				BOW 37.63		PROPOSED RETAINING WALL
*3			IK&C			
37.60				CH 100		
13780						
DP						
	1 1 1 2 3 1	X		CH 110	KEYPLAN	
		(D 4)		39 ⁻³⁹	SHEET 1	SHEET 2
	IK &				5 6 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Q450					
	(D\3)			CH 150		STAGE 2
	F 37.68				SHEET 3	BINE SHEET 4
╢║ ŀ				60.33		
				CH J30 CH J30		
				TNING .		STAGE 1
				CH 130 EE	SHEET 5	SHEET 6
	38.20 38.30					
			-··T - - -··T - - -··+			
	- · · -38.70 - · · - ·					YARRUNGA
Scales		Drawn	JD	Project	Civil	Engineers and Project Managers
	1:200	Designed		-		Level 7, 153 Walker Street
Crid	МСА	Checked	JD CL	CIVIL WORKS PACK 28 YARRUNGA	$\begin{array}{c c} AGE \ FUK \\ ST. \end{array}$	North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777
Grid Height	MGA	Approved	GJ	PRESTONS		ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au
Datum	AHD			Title ROADWORKS	AND Statu	info@atl.net.au
				STORMWATI		FOR APPROVAL A1
				DRAINAGE PI	AN Proje	TO BE USED FOR CONSTRUCTION ct - Drawing No. Issue
				SHEET 4		648-C044 D
					$E_1 \setminus 10$ 648 Equal Dr	estons\6.0 Drgs\Civil\Final\19-648-C044.dwg

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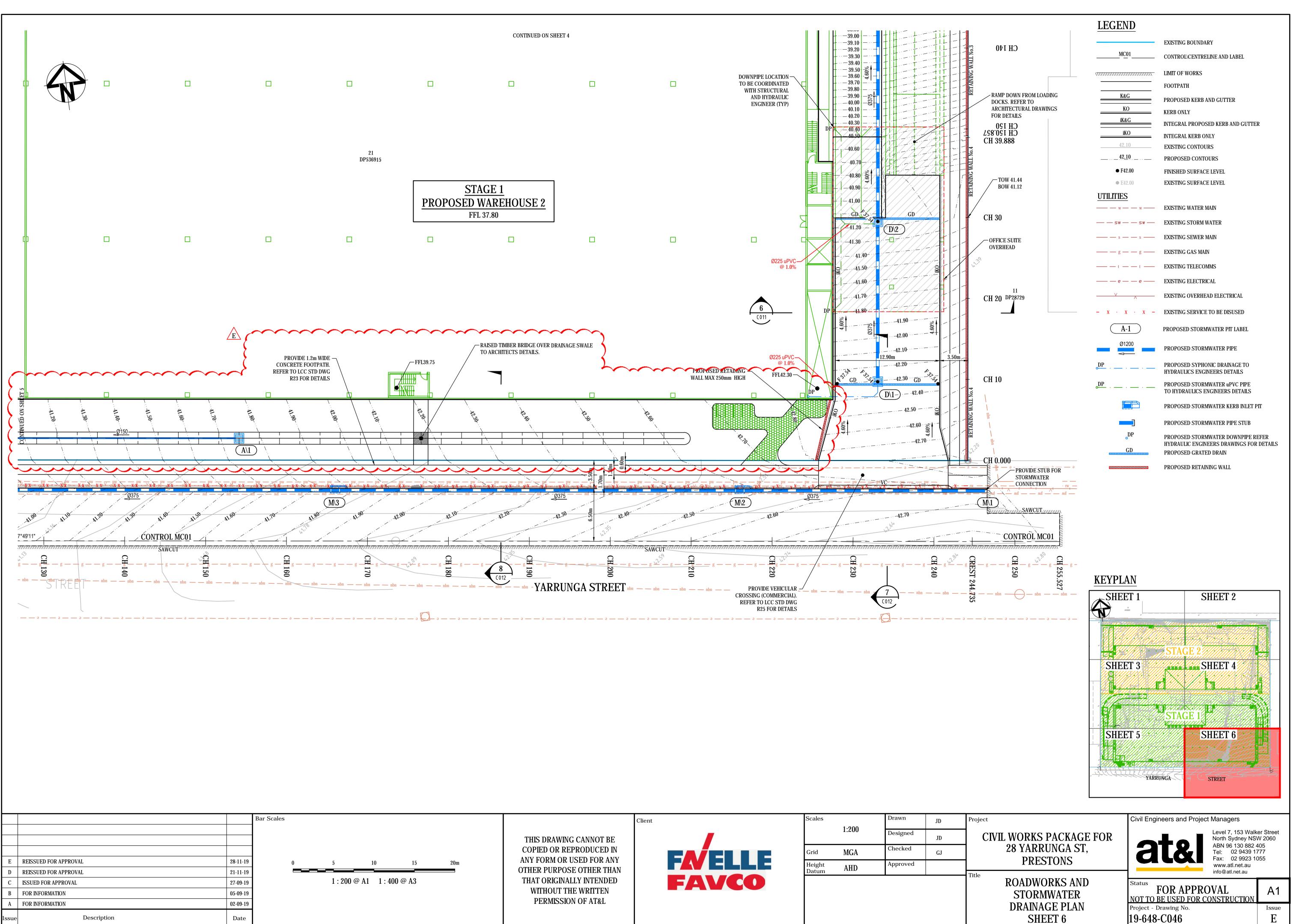


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ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN			Height Datum	AHD	Approved		Title
THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L		FAVCO					The

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(A-1)
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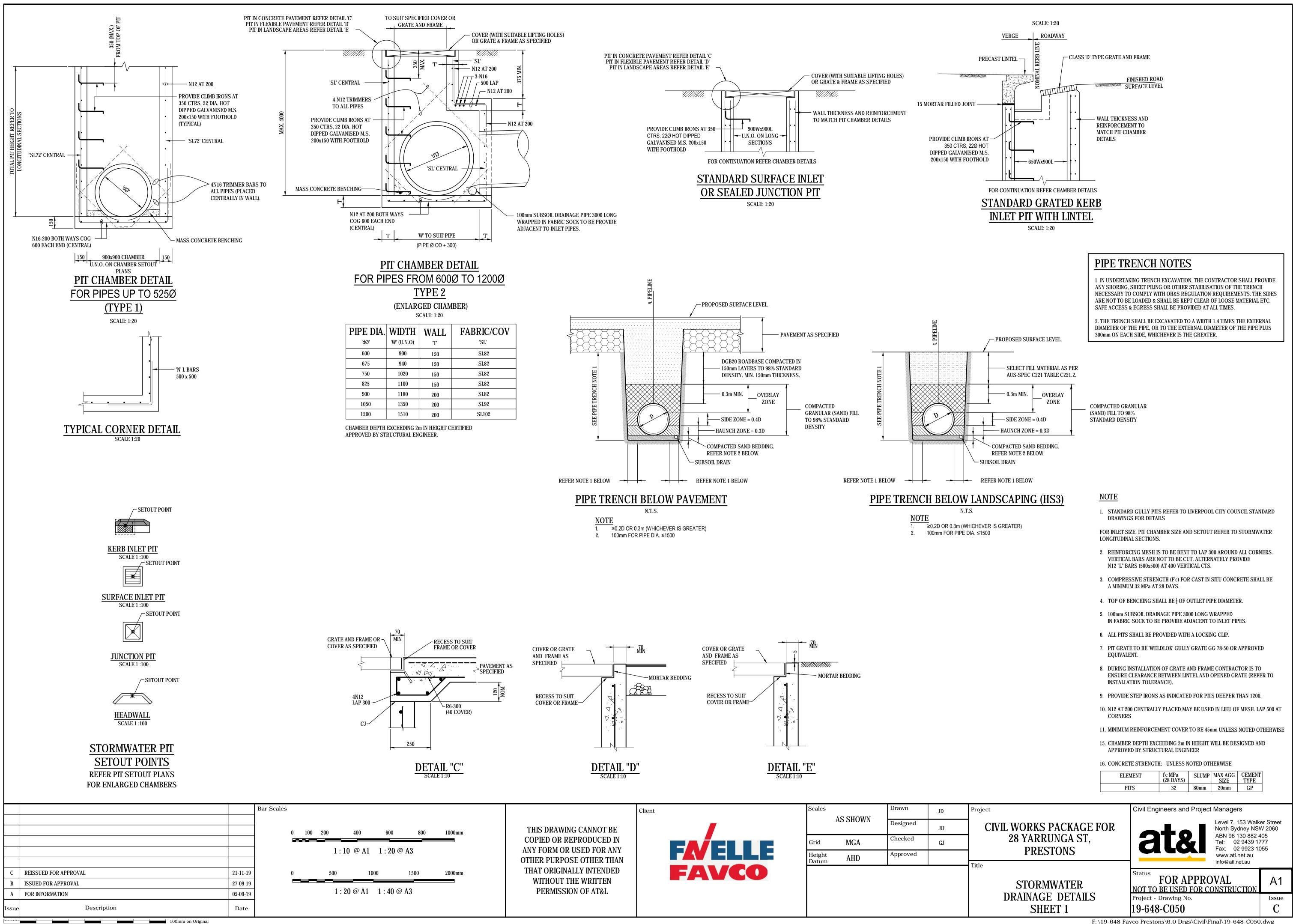
ect	Civil Engineers and Project Managers		
CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, PRESTONS	ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	N 2060 105 777	
ROADWORKS AND STORMWATER DRAINAGE PLAN	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.	A1 Issue	
SHEET 5	19-648-C045	E	

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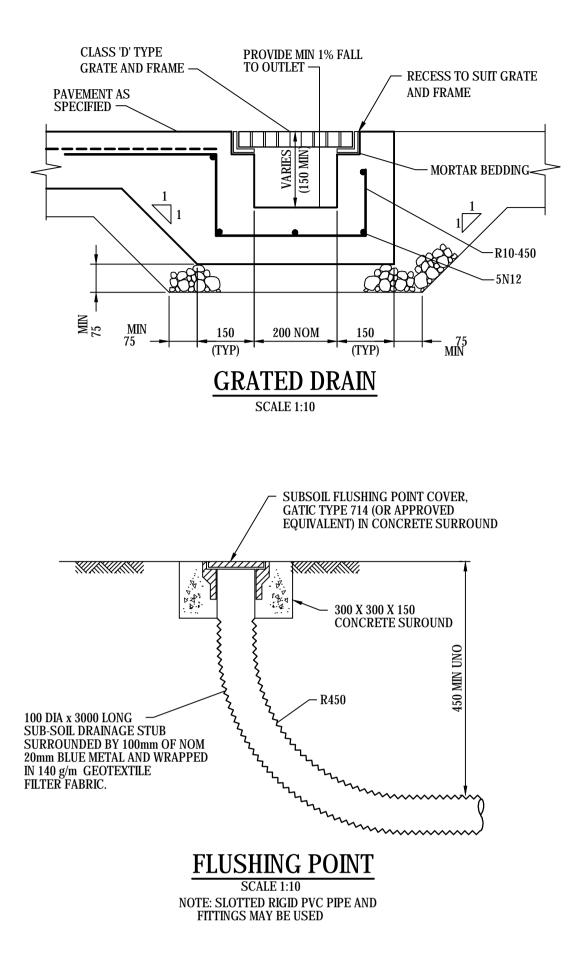
	Client		Scales		Drawn	JD	Projec
THIS DRAWING CANNOT BE				1:200	Designed	JD	
COPIED OR REPRODUCED IN			Grid	MGA	Checked	GJ	
ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN			Height Datum	AHD	Approved		
THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L		FAVCO					Title

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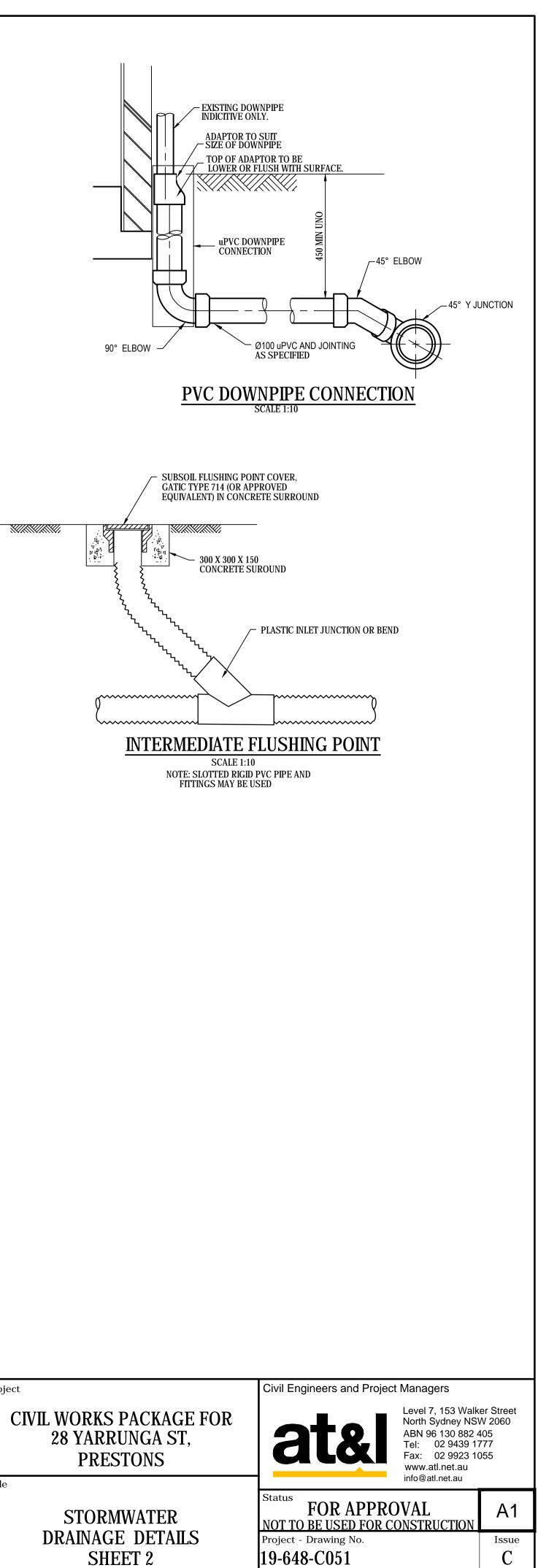


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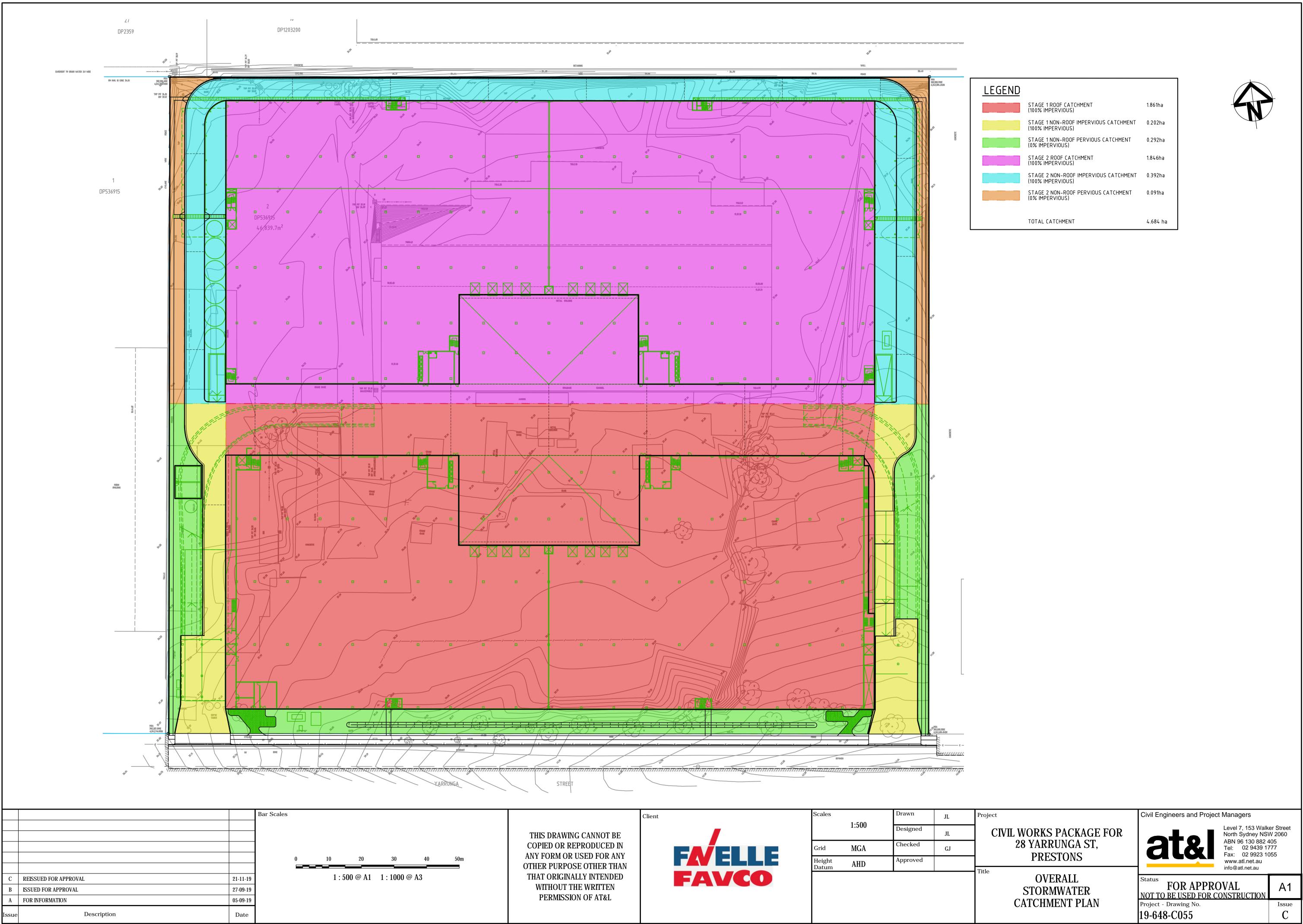
		В	ar Scales						
			0	100	200	400	600	800	1000mm
				1:10 @ A1 1:20 @ A3					
C	REISSUED FOR APPROVAL	21-11-19	0		500	10	00	1500	2000mm
В	ISSUED FOR APPROVAL	27-09-19							
Α	FOR INFORMATION	05-09-19			1:	20 @ A1	1:40@	P A3	
Issue	Description	Date							



Client	Scales	Drawn JD	Project
THIS DRAWING CANNOT BE	AS SHOW	VN Designed JD	
COPIED OR REPRODUCED IN	Grid MGA	Checked GJ	
ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN	Height Datum AHD	Approved	
THAT ORIGINALLY INTENDED WITHOUT THE WRIITEN PERMISSION OF AT&L	VCO		Title



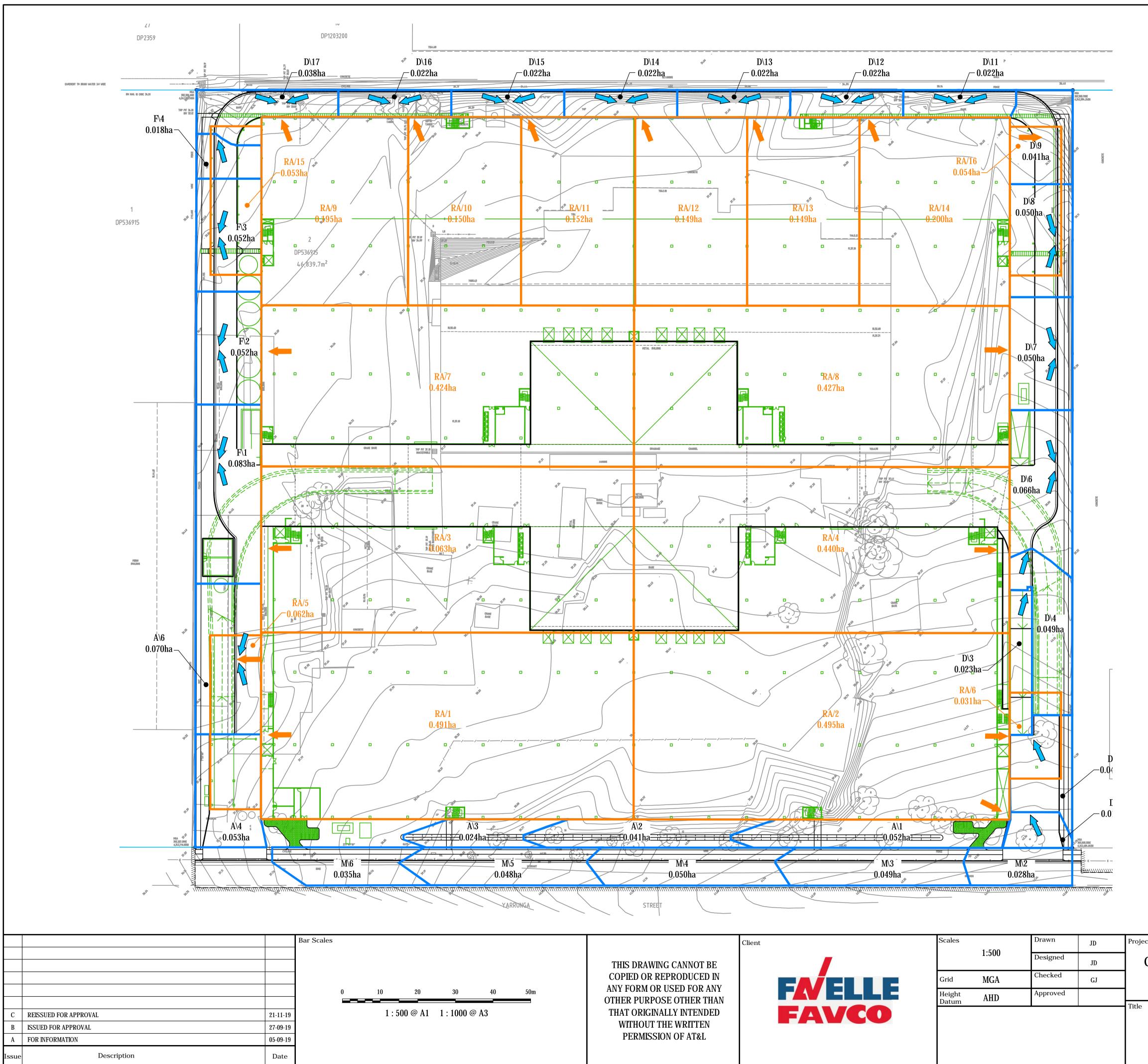
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<u>EGEND</u>		
	STAGE 1 ROOF CATCHMENT (100% IMPERVIOUS)	1.861ha
	STAGE 1 NON-ROOF IMPERVIOUS CATCHMENT (100% IMPERVIOUS)	0.202ha
	STAGE 1 NON-ROOF PERVIOUS CATCHMENT (0% IMPERVIOUS)	0.292ha
	STAGE 2 ROOF CATCHMENT (100% IMPERVIOUS)	1.846ha
	STAGE 2 NON-ROOF IMPERVIOUS CATCHMENT (100% IMPERVIOUS)	0.392ha
	STAGE 2 NON-ROOF PERVIOUS CATCHMENT (0% IMPERVIOUS)	0.091ha
	TOTAL CATCHMENT	4.684 ha



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STORMW	ATER CATCHMENT LEGEND
	GROUND CATCHMENT BOUNDARIES
	ROOF CATCHMENT BOUNDARIES
A/1 0.100ha	CATCHMENT AREA
RA/1 0.100ha	ROOF CATCHMENT AREA
	PROPOSED SW DRAINAGE PIT
	FLOW DIRECTION
	ROOF DRAINAGE FLOW DIRECTION

NOTE: REFER TO HYDRAULIC ENGINEER'S DOCUMENTATION FOR INTERNAL STORMWATER DESIGN.

ject	Civil Engineers and Project Managers				
CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, PRESTONS	ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	N 2060 105 777			
STORMWATER	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1			
CATCHMENT PLAN	Project - Drawing No. 19-648-C056	Issue C			

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						90° JUNCTION LINE J JUNCTION LINE G	90° JUNCTION LINE K JUNCTION LINE H
SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	SURFACE INLET PIT (0.6 X 0.6m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	SURFACE INLET PIT (0.6 X 0.6m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	KERB INLET PIT (1.8m LINTEL SAG)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	JUNCTION PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	TANK 2 SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS
0.02 1.2 Ø150 PVC 2.7% 2.7% 2.7% 2.7% 2.7% 0000 0001 0000 0001 0000 0001 0000 0001 0000 00	37.423 37.290	37.123 37.069 37.069 37.070 36.998	0.08 0.7 Ø375 RCP 0.5% 1910 19	1.4 1.3 Ø525 Ø600 RCP RCP	2.2 Ø6000 Ø600 Ø600 Ø600 Ø600 Ø600 Ø600 Ø600 Ø600 Ø600 Ø600	1.932 1.932 1.932 2.216 2.216	
EL9-6E EL9-6E L=55.000	710.021 L=22.026	L=21.270	L=29.457	0.532 37.360 37.360	711.796 37.464 T=14.888	6.694 37.539 37.539 000 37.600 37.600	Drawn JD Proje
	0.02 9377 9150 PVC 2.7% 38 201 38 201 38 201 38 201 38 201 00 1000	0.02 0.04 12 2.5 9150 9150 PVC 2.5% 2.7% 2.5% 0.001 2.5% 9150 9150 PVC 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.001 2.5% 0.002 1.1% 1.50.003 1.1% 1.55.026 1.1%	0.02 0.04 0.06 12 25 0.0 12 25 0.0 12 25 0.0 12 0.02 0.04 12 0.05 0.05% 12 0.05 0.05% 12 0.01 0.05% 12 0.01 0.05% 12 0.01 0.05% 12 0.01 0.05% 12 0.01 0.05% 12 0.01 0.05% 12 0.01 0.05% 14.0.0000000000000000000000000000000000	141 141 <td>11 11<</td> <td>Low Low <thlow< th=""> <thlow< th=""> <thlow< th=""></thlow<></thlow<></thlow<></td> <td>Image: Section of the section of th</td>	11 11<	Low Low <thlow< th=""> <thlow< th=""> <thlow< th=""></thlow<></thlow<></thlow<>	Image: Section of the section of th



В	13	В	14		В\5
	d		\		_
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SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS		SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS		TANK 2	2 WITI
0.08 0.8 Ø375 RCP 0.5%	0.11 1 Ø375 RCP 0.5%		0.1 0. 0. 0. 0.5	25 25	-
37.560 37.560 35.054 35.664 2.536		37.540 37.540 34.874 35.699 2.666	34.844 35.699 2.696	37 541 37 541 34 687 35 709 2.854	34.687 35.709
L=30.000 9	L=30.000	8 000.00	L=31.	1 11	_
ect CIVIL WORKS PAC 28 YARRUNC PRESTO	GA ST,		t&I	Anagers Level 7, 153 Walko North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au info@atl.net.au	N 2060 105 777
STORMWA LONGITUDINAL S SHEET	SECTIONS	NOT TO B	FOR APPROV E USED FOR CO rawing No.	VAL	A1 Issue C

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						(1))			81° JUNCTION LINE L	4) (
		TANK 2	JUNCTION PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS			JUNCTION PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS				JUNCTION PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	EXISTING STORMWATER PIT	
	FLOW (m³/s) VELOCITY (m/s)	~	0.55	<	55			0.51 1.4			1.75	-
	PIPE SIZE & CLASS GRADE (%)	~	Ø675 RCP 0.5%	R	575 CP 5%			Ø675 RCP 0.5%			¢675 RCP 1%	
[Datum R.L DEPTH TO INVERT	2.951 2.951				4 3.781 0 3.831 9 3.831				8 4.064 0 5.515 5.515		_
 	20 YR ARI <u>H.G.L.LEVEL</u> NVERT LEVEL TOP OF PIT LEVEL EXISTING SURFACE LEVEL	37.408 37.408 34.457 35.543		34.055		37.633 37.633 33.852 35.324 33.802 35.309				37.564 37.564 33.500 35.208	33.213 33.213 32.020	32.020
(CHAINAGE	000	667. L=4.439		0.617	45.056	LINE C	L=60.399		105.455	^{+8€:8} L=2.92€	
							Bar Scales					
							0	2 4	6	8	10m	
								1 : 100 @ A1	1 : 200 @ A	3		
С	REISSUED FOR APPROVAL					21-11-19	0	10 20	30	40	50m	
B A	ISSUED FOR APPROVAL FOR INFORMATION					27-09-19 05-09-19		1 : 500 @ A1	1 : 1000 @ A	13		
ssue		escrip	tion			Date	1					

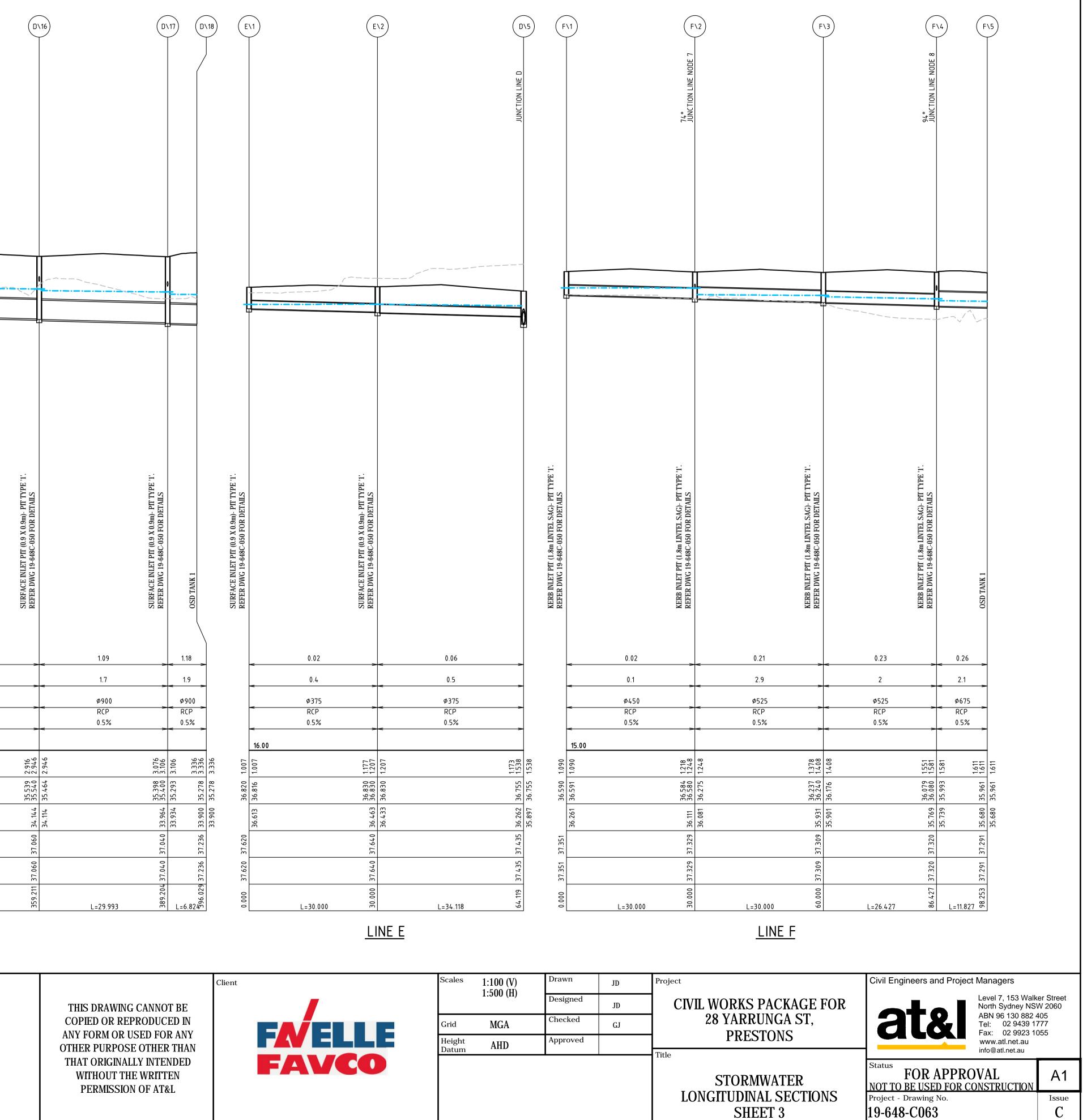


	.6)			8)	(9) (D)	(D)	N11)	D\12
		0				·		
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	KERB INLET PIT (1.8m LINTEL SAG)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS		KERB INLET PIT (1.8m LINTEL SAG)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	KERB INLET PIT (1.8m LINTEL SAG)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	JUNCTION PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS		SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS
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	36.684 1.4 36.615 1.5 36.620 1.6							36.008 2. 36.010 2.
35.866 36								34.909 36
37.287 35	35		37.225 35	35 37.202 35	35 37.382 35	35	35	37.14.0 34
37.287 37.	37.256 37.		37.225 37.	37.202 37.	37.382	37.160 37.		
<u>ଟ</u> ସି2.848 37.			152.84.8 37.	L=27.372	L=13.992	C1212 37.		239.211 37.140
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c -	ales 1.100 (V) Dra	wn	p				and Draiget Manager	
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Gr	id MGA ^{Che}	ecked GJ		28 YARRUNGA ST		at	North Sydney NSW ABN 96 130 882 44 Tel: 02 9439 17	05 77
He Da	eight AHD App	proved	Title	PRESTONS			Fax: 02 9923 10 www.atl.net.au info@atl.net.au	CC
				STORMWATER NGITUDINAL SECT SHEET 2	IONS			A1 Issue C
				SULLI 2			\mathcal{L} Drgs\Civil\Final\19-648-C062.	

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SURFACE INLET PIT (0.6 X 0.6m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	SURFACE INLET PIT (0.6 X 0.6m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS		SURFACE INLET PIT (0.6 X 0.6m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS KERB INLET PIT (1.8m LINTEL ON GRADE)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	JUNCTION PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS KERB MLET PIT (1.8m LINTEL SAG)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	KERB INLET PIT (1.8m LINTEL SAG)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	KERB INLET PIT (1.8m LINTEL SAG)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	KERB INLET PIT (1.8m LINTEL SAG)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS JUNCTION PIT (0.9 X 0.9m)- PIT TYPE '1'.	KEFEK DWG-19-648C-030 FOK DETAILS SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'.
0.2 5. Ø3 RC 5.6	6 75 P	0.26 6 Ø375 RCP 8.8%	0.27 1.7 Ø450 RCP 0.5%	0.48 0.46 2.2 1.3 Ø525 Ø675 RCP RCP 2% 0.5%	0.5 1.4 Ø675 RCP 0.5%	0.69 1.6 Ø750 RCP 0.5%	0.7 0.72 1.6 1.6 \$\$\phi\$750 \$\$\phi\$750 \$\$RCP\$\$\$RCP\$\$\$0.5%	0.7 1.6 Ø750 RCP 0.5%	0.72 1.4 Ø825 RCP 0.5%
0.000 42.306 42.306 41.720 1.036 41.270 41.416 1.036 F=1	.800 41.156 41.156 40.171 40.344 0.985 39.843 39.998 1.313	L=39.160	58.960 37.677 37.677 36.395 37.215 1.282 58.960 37.677 36.395 37.215 1.312 7.00 36.365 37.215 1.312 6.00 37.535 36.365 37.216 1.312 69.218 37.535 36.313 37.169 1.222 69.218 37.535 36.313 37.169 1.252	1-1-1 1-1-1 36.755 1.508 86.708 37.435 35.927 36.755 1.538 86.708 37.435 35.927 36.755 1.538 95.897 36.755 1.538 36.755 1.538 97.948 37.287 35.897 36.742 1.421 97.848 37.287 35.836 36.742 1.421 97.848 37.287 35.836 36.742 1.421	122.84.8 37.256 35.686 36.620 1.600 35.656 36.528 1.600	152.84.8 37.225 37.225 35.506 36.463 1.719 35.431 36.430 1.794	0.220 37.202 37.202 35.294 36.360 35.264 36.206	194.212 31.382 35.164 36.091 2.218 194.212 31.382 35.164 36.091 2.218 194.212 37.160 35.164 36.053 2.071 194.212 37.160 37.160 35.089 36.053 2.071 209.212 37.160 37.059 36.053 2.101	L=30.000

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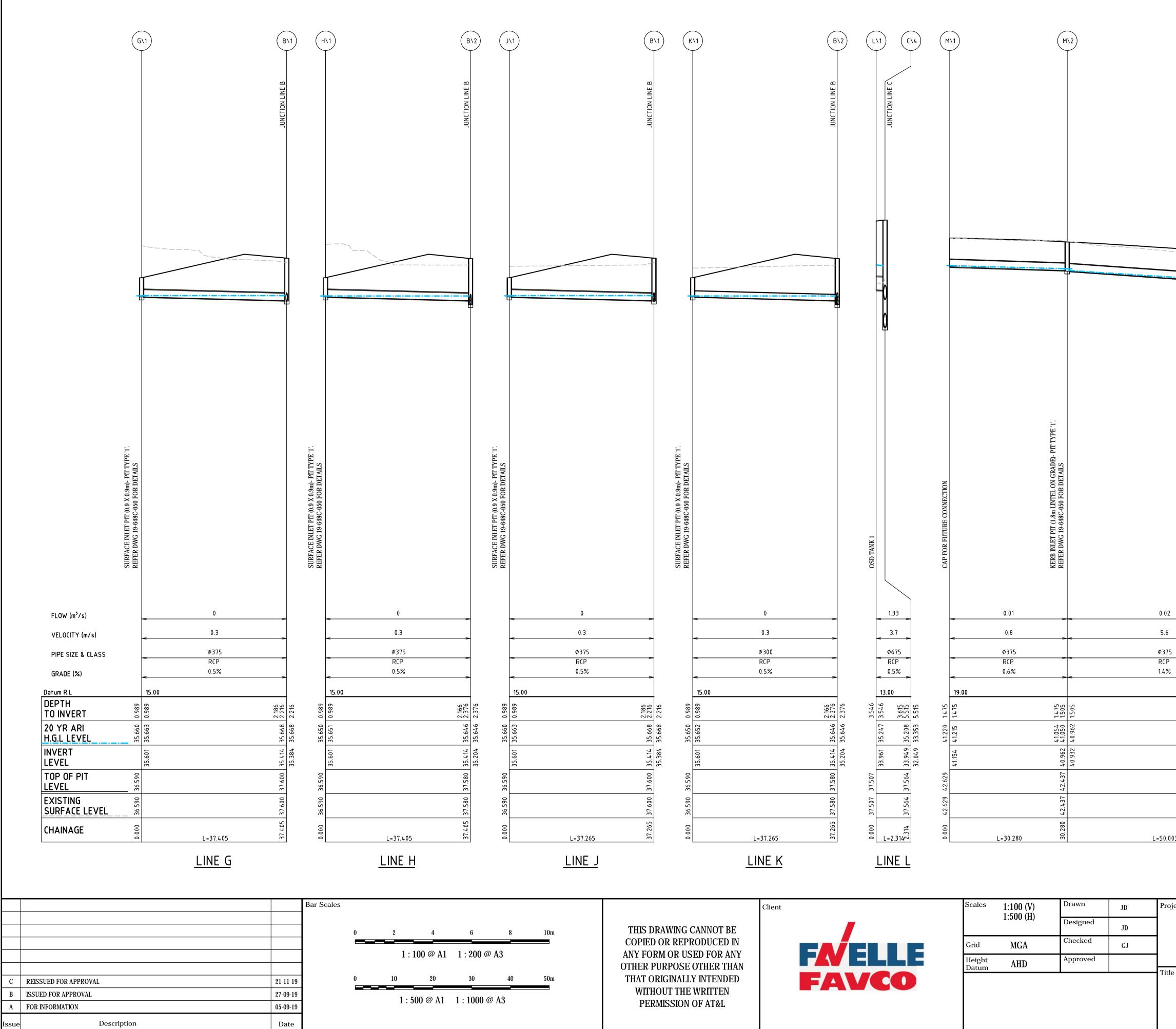
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	SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS		SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS		SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	SURFACE INLET PIT (0.9 X 0.9m)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS	
	SI RI		SI RI		SI	E SI	
FLOW (m³/s)	F	0.81		0.88		0.94	- 1.01
VELOCITY(m/s)		- 1.5 - #825		1.6		<u>م الم الم الم الم الم الم الم الم الم ال</u>	<u>المعامم 1.6</u>
PIPE SIZE & CLASS GRADE (%)	-	Ø825 ■ RCP 0.5%		Ø825 RCP 0.5%		<pre></pre>	
Datum R.L DEPTH	31 06	14.00	2.436 2.466 2.466		96 26	26 56 86	86
TO INVERT 20 YR ARI H.G.L LEVEL	36.008 2.231 36.010 2.306		35.887 2.4 35.890 2.4 35.814 2.4		35.744 2.596 35.740 2.626		
INVERT LEVEL		34.834	34.684 35 34.654 35				34.294 35
TOP OF PIT LEVEL	37.14.0 3		37.120 3		37.100 3	E	
EXISTING SURFACE LEVEL	37.14.0		37.120		37.100	37.080	
CHAINAGE	239.211	L=30.000	269.211	L=30.000	299.211	L=30.001	L=30.000
						<u>LINE D</u>	
				Bar Scales	5		
					0	2 4 6	8 10m
						1:100 @ A1 1:200	
C REISSUED FOR APPROVAL				21-11-19	0	10 20 30	40 50m
BISSUED FOR APPROVALAFOR INFORMATION				27-09-19 05-09-19		1 : 500 @ A1 1 : 1000	@ A3
	scription			Date			
		100mm on	Original				





Scales	1:100 (V)	Drawn	JD	Proje
	1:500 (H)	Designed	JD	
Grid	MGA	Checked	GJ	
Height Datum	AHD	Approved		Title
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Scales	1:100 (V) 1:500 (H)	Drawn	JD	Proje
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				Title

M	13	(M\4	
KERB INLET PIT (1.8m LINTEL ON GRADE)- PIT TYPE '1'. REFER DWG 19-648C-050 FOR DETAILS		KERB INLET PIT (1.8m LINTEL ON GRADE)- PIT TYPE '1'.	REFER DWG 19-648C-050 FOR DETAILS	
		0.05 2.3	->	
	<	Ø375 RCP 2.3%	->	
41.722 41.722 40.247 40.332 1.550	40.262	39.192	40.583 40.583 39.032 39.190 1.581	
80.283			130.280 40	
<u>LINE M</u>				
CIVIL WORKS P 28 YARRU PREST	NGA ST,	Civil Engineers and Project	t Managers Level 7, 153 Walke North Sydney NSV ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au info@atl.net.au	V 2060 05 77
STORMW LONGITUDINAI SHEE	L SECTIONS	Status FOR APPRO NOT TO BE USED FOR CU Project - Drawing No. 19-648-C064		A1 Issue C

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VELOCITY (m/s)

PIPE SIZE & CLASS

GRADE (%)

_Datum R.L	
DEPTH TO INVERT	1.551 1.581
20 YR ARI H.G.L LEVEL	39.192 39.192
INVERT LEVEL	39.032
TOP OF PIT LEVEL	40.583
EXISTING SURFACE LEV	130.280 4.0.583
CHAINAGE	130.280

			Bar Scales						
]						
				0	2	4	6	8	10m
					1:1	00 @ A1	1 : 200 @	• A3	
C	REISSUED FOR APPROVAL	21-11-19		0	10	20	30	40	50m
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А	FOR INFORMATION	05-09-19			1.3	00 @ AI	1.1000 @	9 AJ	
Issue	Description	Date							
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(M\5) (M\6) (M\7) (M\4) (1.8m LINTEL ON GRADE)- PIT TYPE '1'. 648C-050 FOR DETAILS (1.8m LINTEL ON GRADE)- PIT TYPE '1' 648C-050 FOR DETAILS LINTEL ON GRADE) 050 FOR DETAILS (1.8m 648C-KERB INLET PIT (REFER DWG 19-6 KERB INLET PIT REFER DWG 19-(KERB INLET PIT REFER DWG 19-6 0.06 0.1 0.08 2.6 3 2.6 Ø375 RCP Ø450 RCP Ø450 RCP 3.3% 4.3% 2.5% 17.00 35.608 1.647 35.481 35.608 1.647 35.481 35.608 1.647
 37.470
 1.550

 37.470
 1.625

 37.283
 37.386
 1.625

 36.056
 1.626

 35.839
 36.060
 1.656

 35.809
 35.937
 1.656
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Scales1:100 (V)
1:500 (H)DrawnJDProjectionDesignedJDJDImage: state state

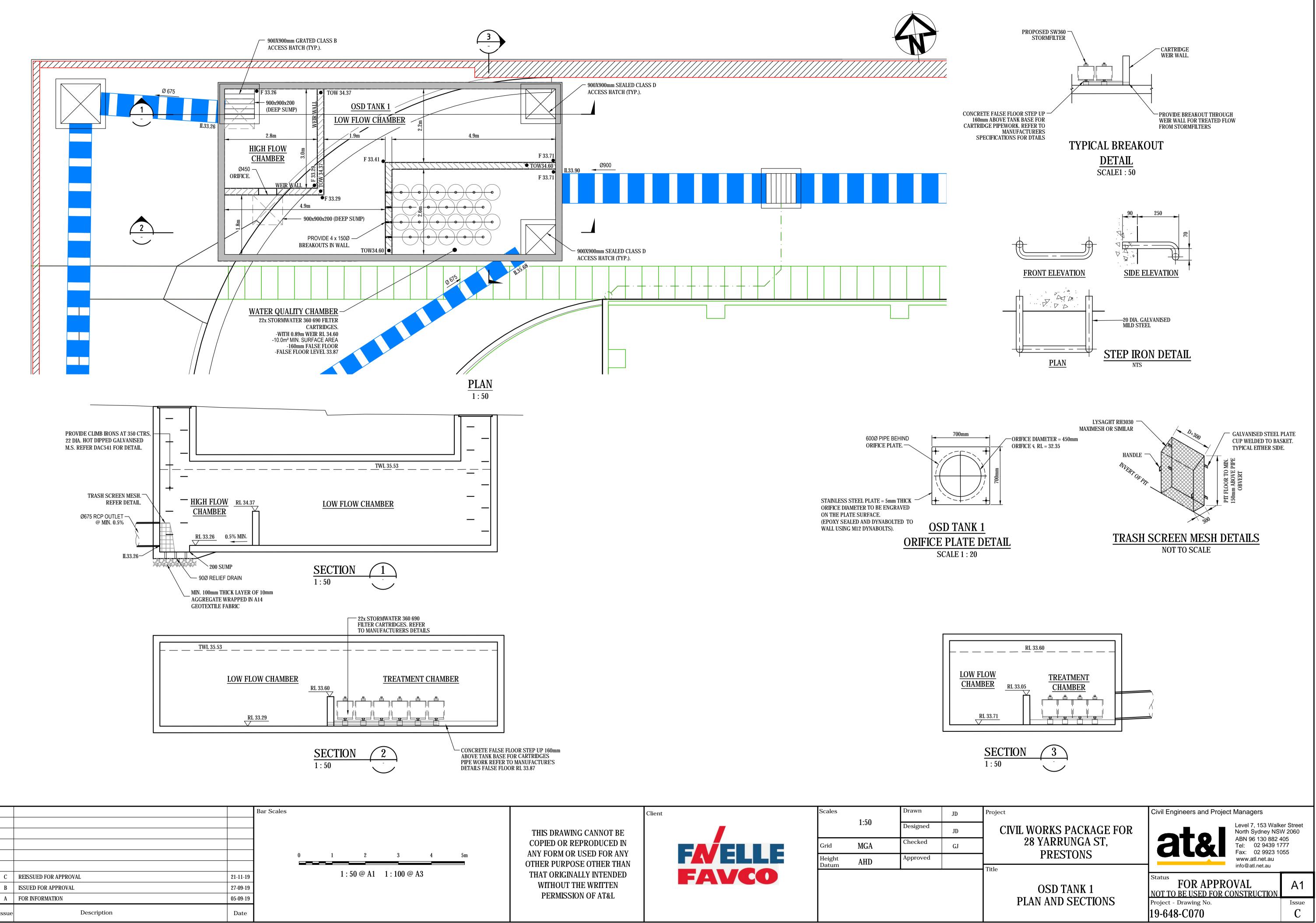
LINE M

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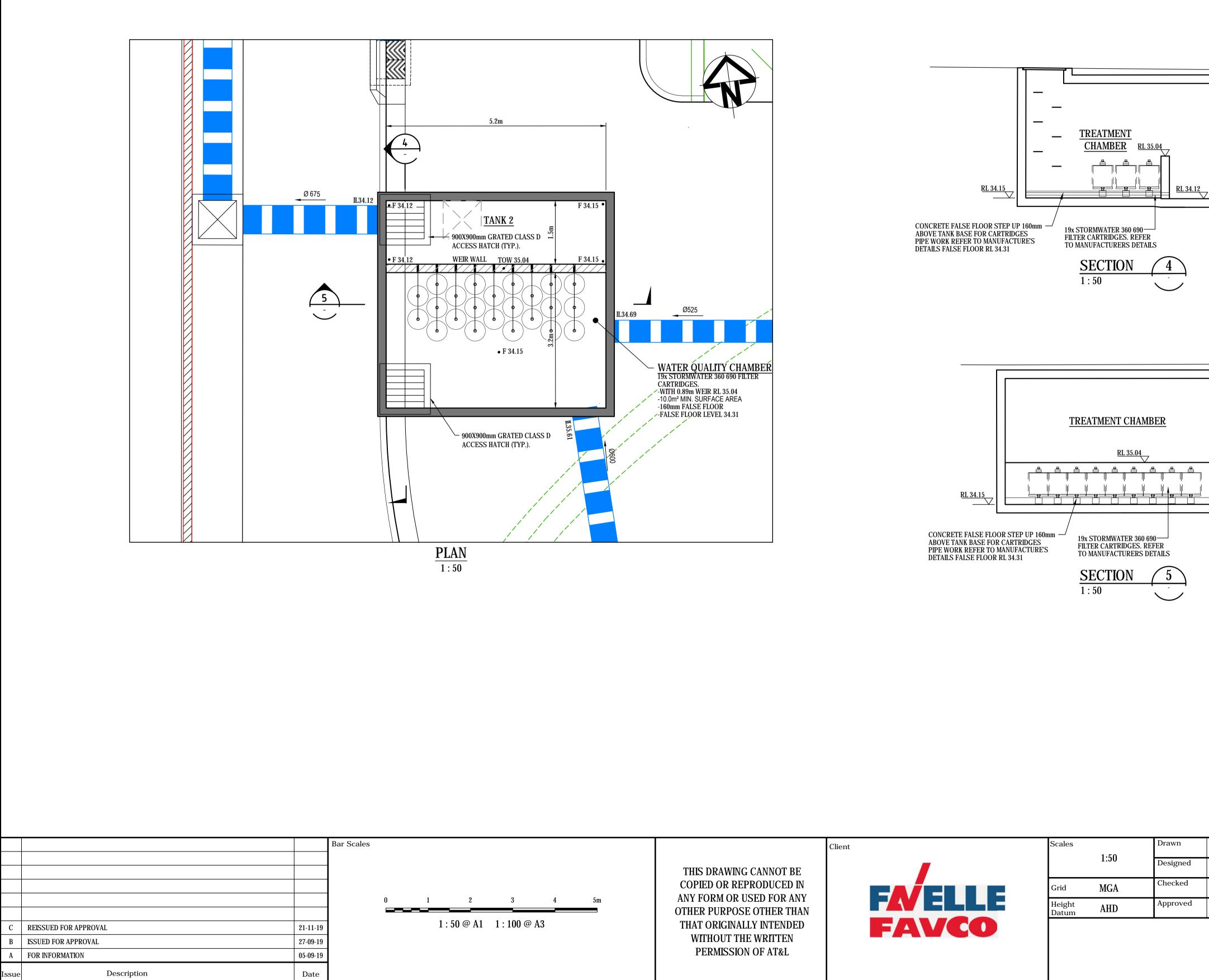


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e	info@atl.net.au						
STORMWATER	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1					
LONGITUDINAL SECTIONS SHEET 5	Project - Drawing No. 19-648-C065	Issue C					

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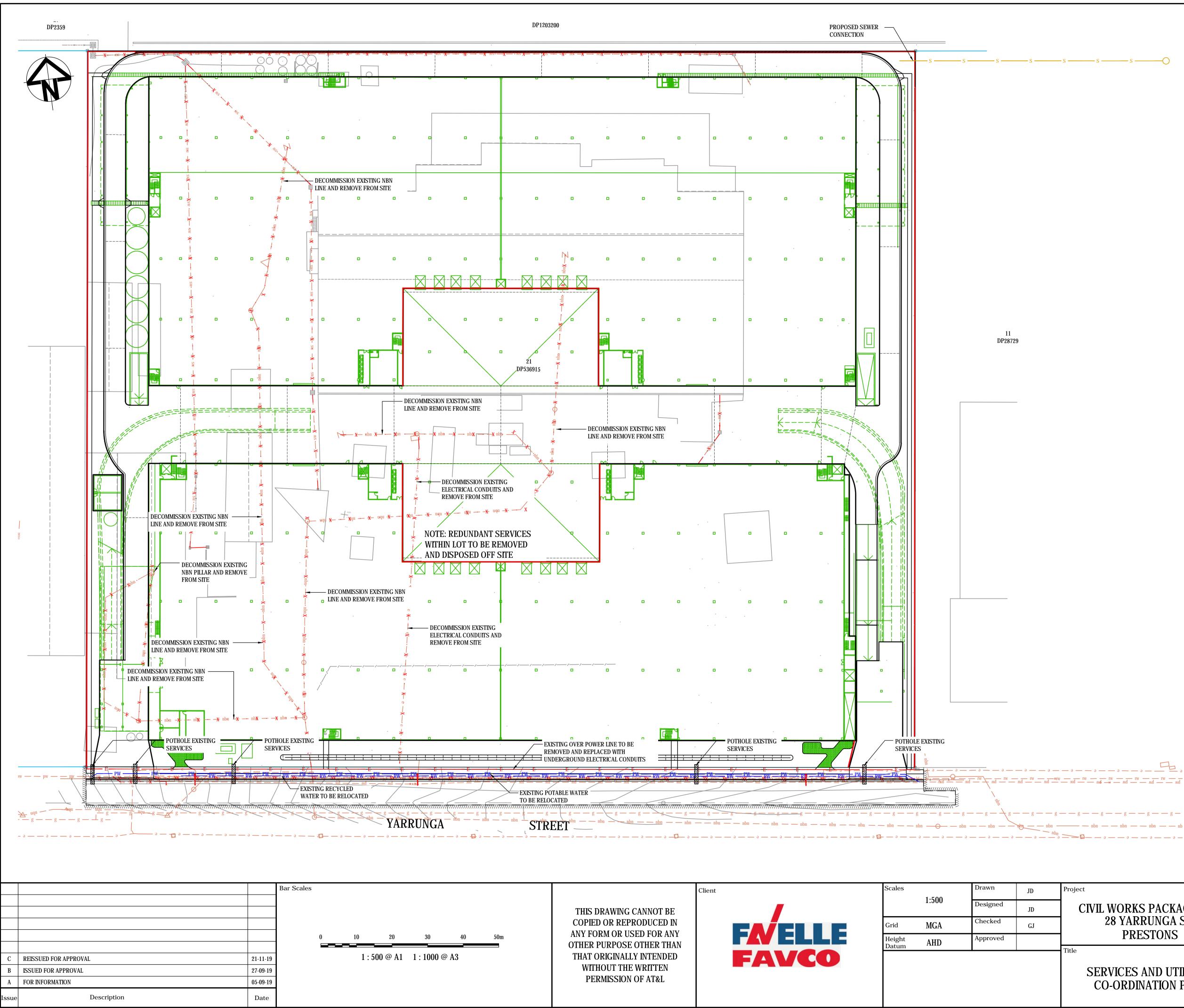
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ject	Civil Engineers and Project Managers						
CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, PRESTONS	Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9923 1055 www.atl.net.au						
TANK 2	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1					
PLAN AND SECTIONS	Project - Drawing No.	Issue					
	19-648-C071	С					

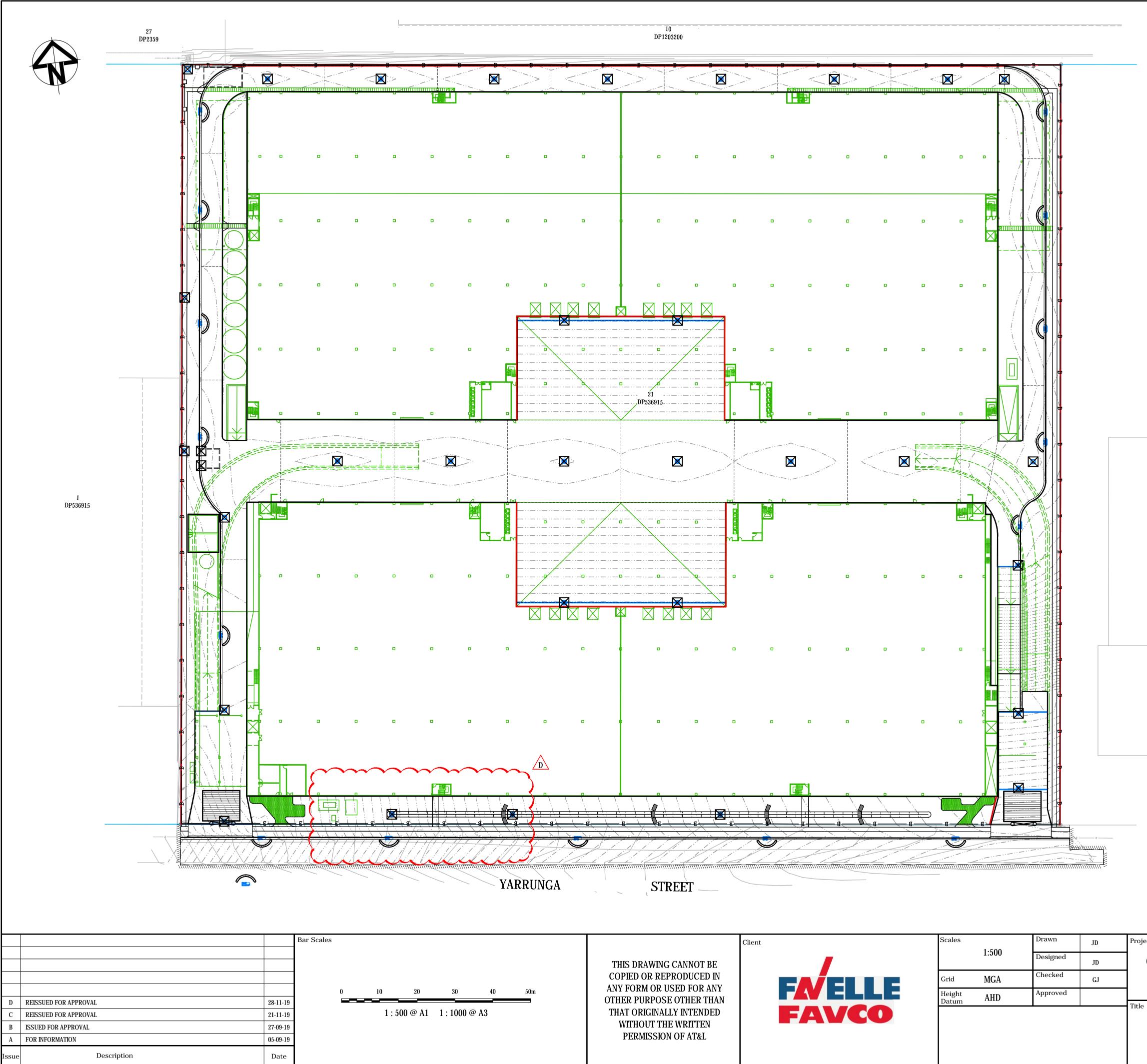
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SERVICES LEGE	ND	
	PROPOSED	EXISTINC
	SERVICES	<u>SERVICE</u>
HIGH VOLTAGE ELECTRICITY	HV	hv
LOW VOLTAGE ELECTRICITY	LV	lv
ELECTRICITY	———— E ———	— e —
ELECTRICITY OVERHEAD		
CCTV SERVICES		<u> </u>
TELSTRA CONDUITS	— т —	t
OPTUS SERVICE	OP	op
OPTICAL FIBRE SERVICE	OF	of
UECOMM SERVICE	UC	uc
NBN SERVICE		nbn
SEWER SERVICE	S	S
SEWER RISER MAIN	RM	m _
WATER SERVICE	—— w ——	w
POTABLE WATER SERVICE	PW	— — pw —
RECYCLED WATER SERVICE	RW	rw
FIRE SERVICE		fs
IRRIGATION SERVICE	IR	ir
GAS SERVICE	G	—— g —
HIGH PRESSURE GAS SERVICE	———— HG ————	hg
OIL SERVICE	OIL	oil –
SPARE SERVICE		— — spare
UNKNOWN SERVICE	? ?	?
DISUSED SERVICE	- x · x ·	x
STORMWATER		
WATER HYDRANT	•	•
WATER STOP VALVE	×	×
SEWER MANHOLE	\bigcirc	\bigcirc
SEWER RODDING POINT	•	•
SEWER TERMINAL MAINTENANCE SHAFT LIGHT POLE		TMS
POWER POLE		
ELECTRICITY PIT		
TELSTRA PIT	⊞T	⊞T
TRAFFIC SIGNAL POST	••	•-•

Civil Engineers and Project Managers CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 PRESTONS Fax: 02 9923 1055 www.atl.net.au info@atl.net.au Status FOR APPROVAL A1 SERVICES AND UTILITIES NOT TO BE USED FOR CONSTRUCTION **CO-ORDINATION PLAN** Project - Drawing No. Issue 19-648-C075 С

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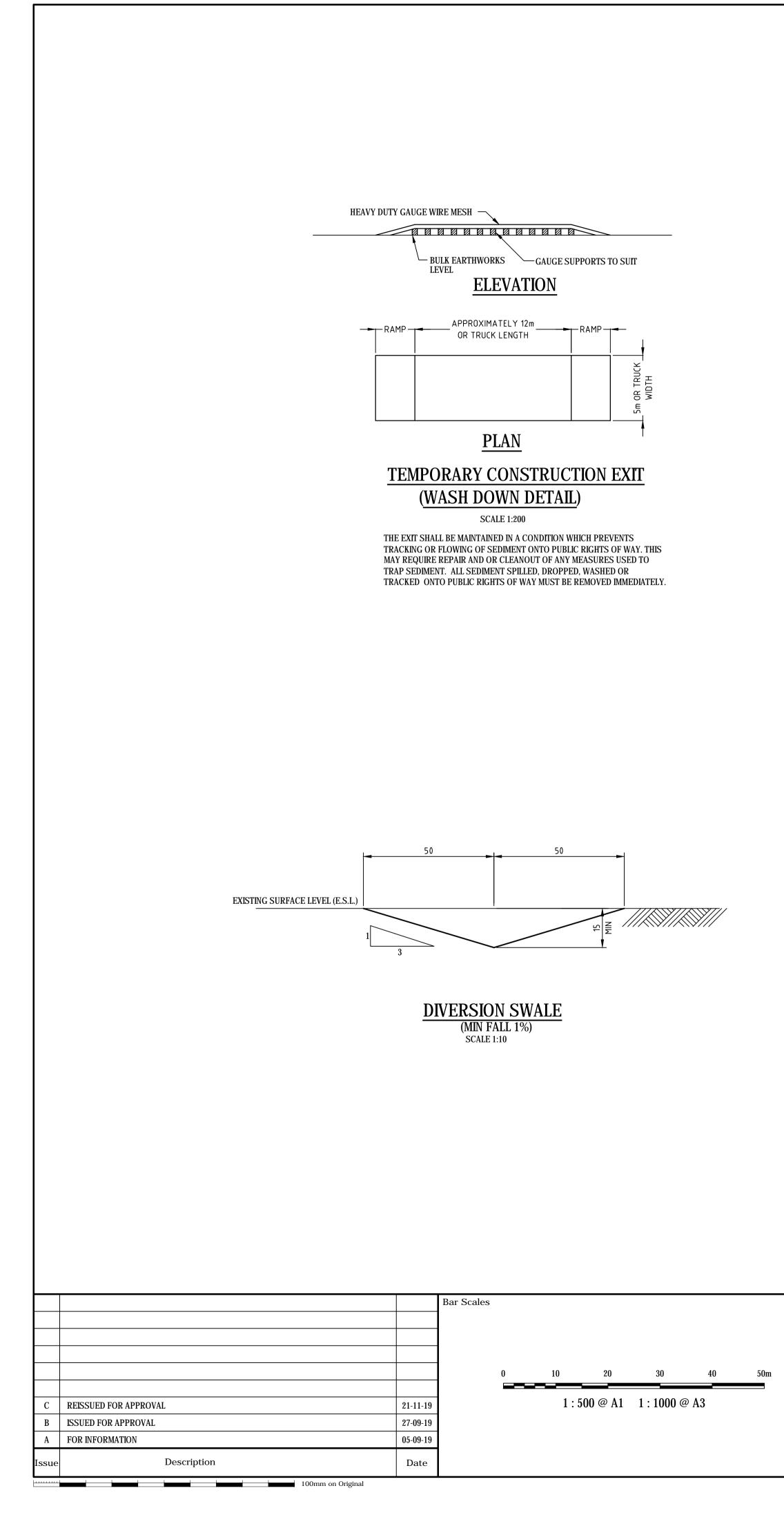


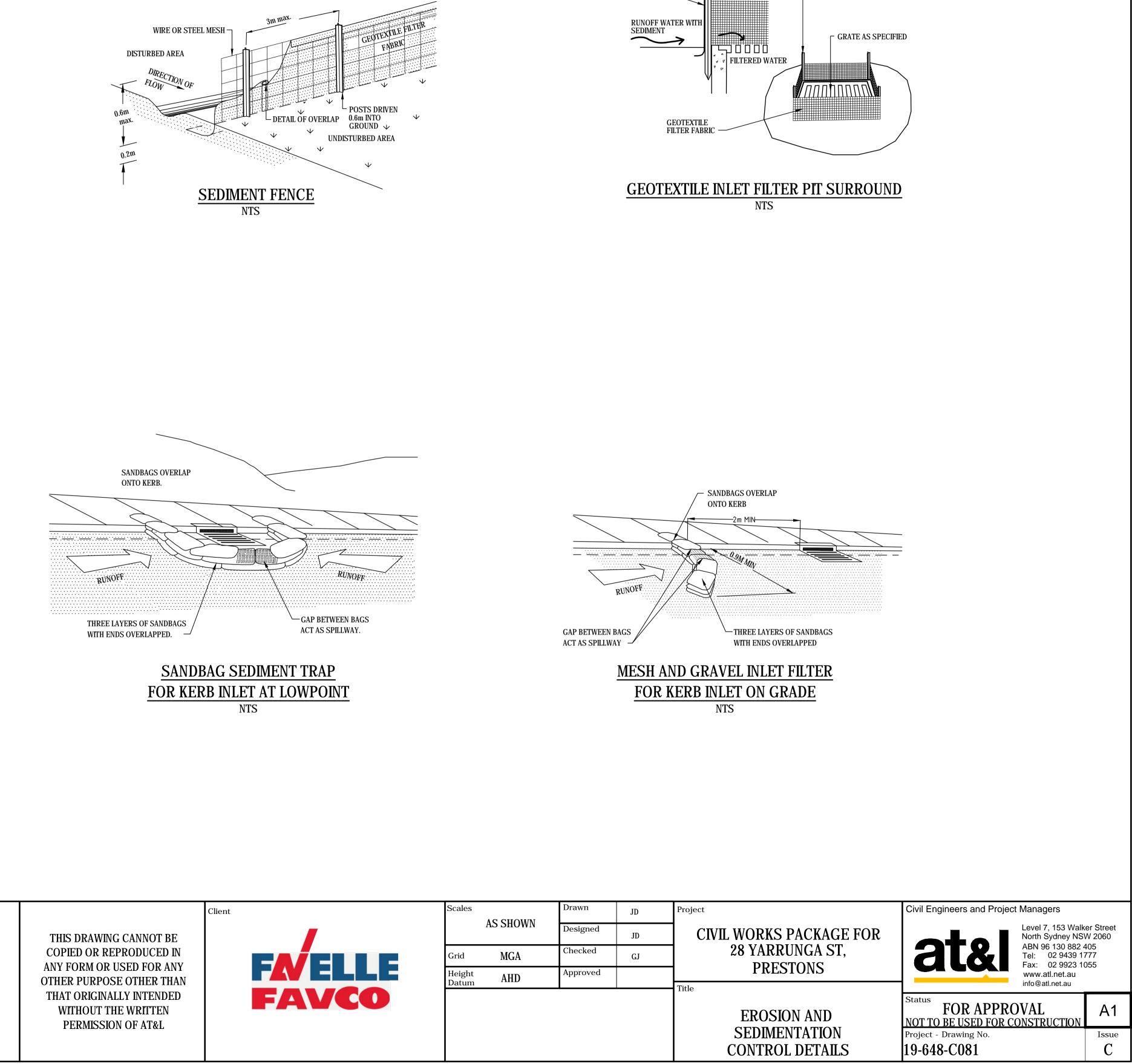
LEGEND	
-00	SEDIMENT FENCE (SD 6-8) REFER DETAIL ON DWG C602
В	BARRIER FENCE
\frown	MESH AND GRAVEL INLET FILTER (SD 6-11) REFER DETAIL ON DWG C602
\square	GEOTEXTILE INLET FILTER (SD 6-12) REFER DETAIL ON DWG C602
	PROPOSED ACCESS GATE
	STRAW BALE FILTER (SD 6-7)
	TEMPORARY CONSTRUCTION EXIT REFER DETAIL ON DWG C602

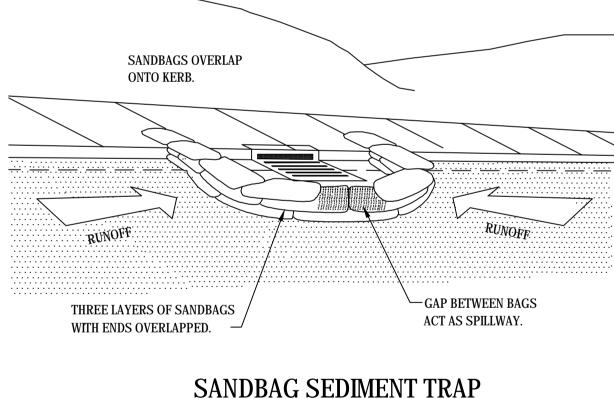
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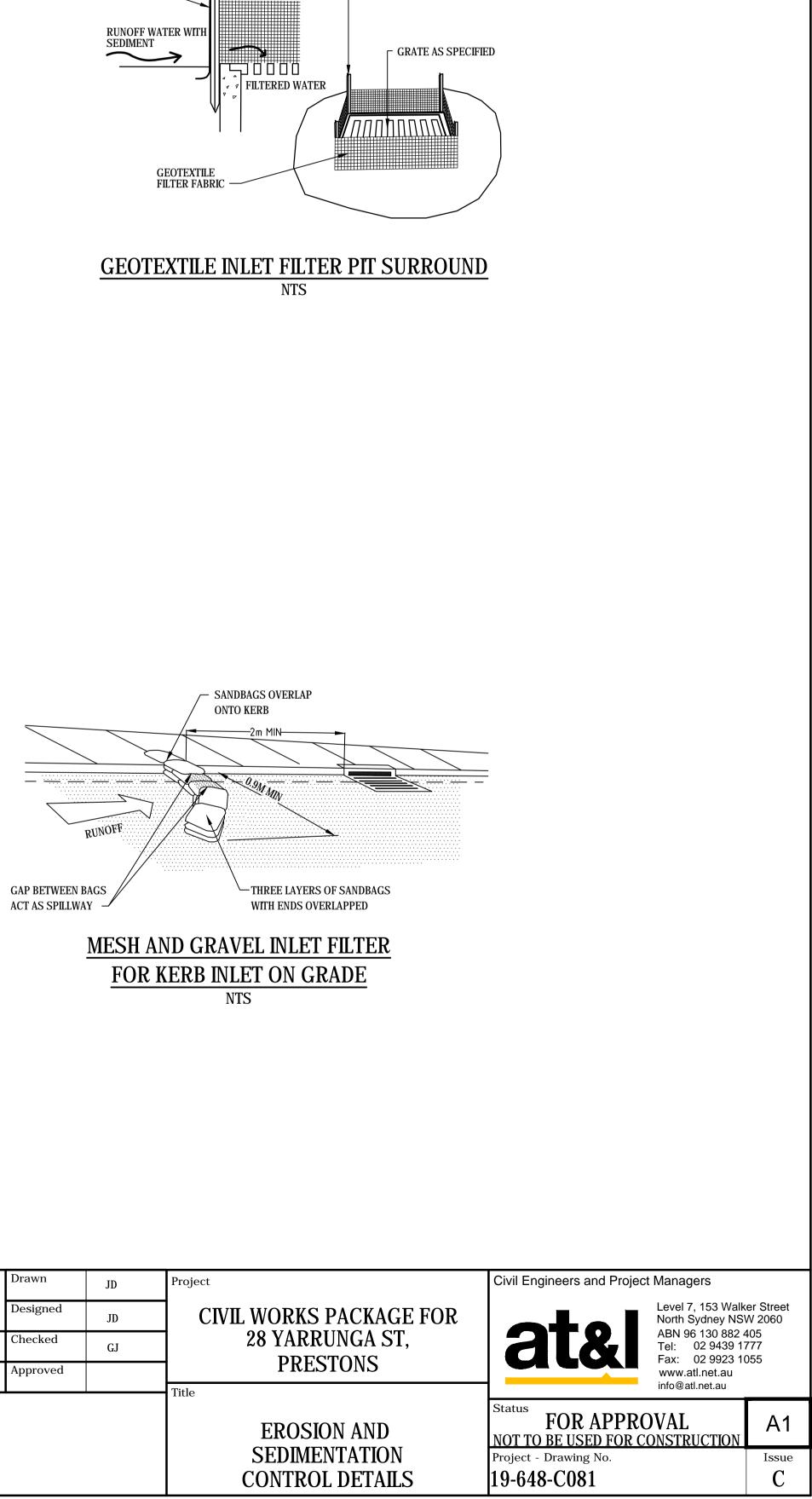
ect	Civil Engineers and Project Managers					
CIVIL WORKS PACKAGE FOR 28 YARRUNGA ST, PRESTONS	ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10 www.atl.net.au	SW 2060 2 405 1777				
EROSION AND	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1				
SEDIMENTATION CONTROL PLAN	Project - Drawing No. 19-648-C080	Issue D				

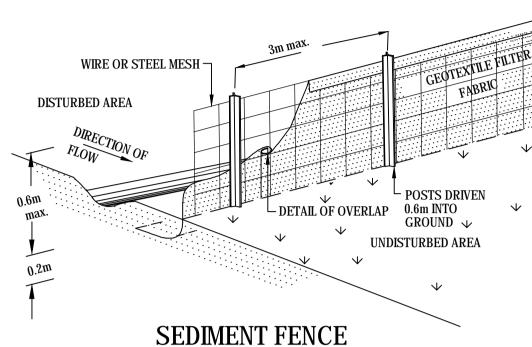
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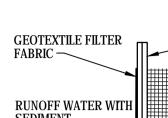






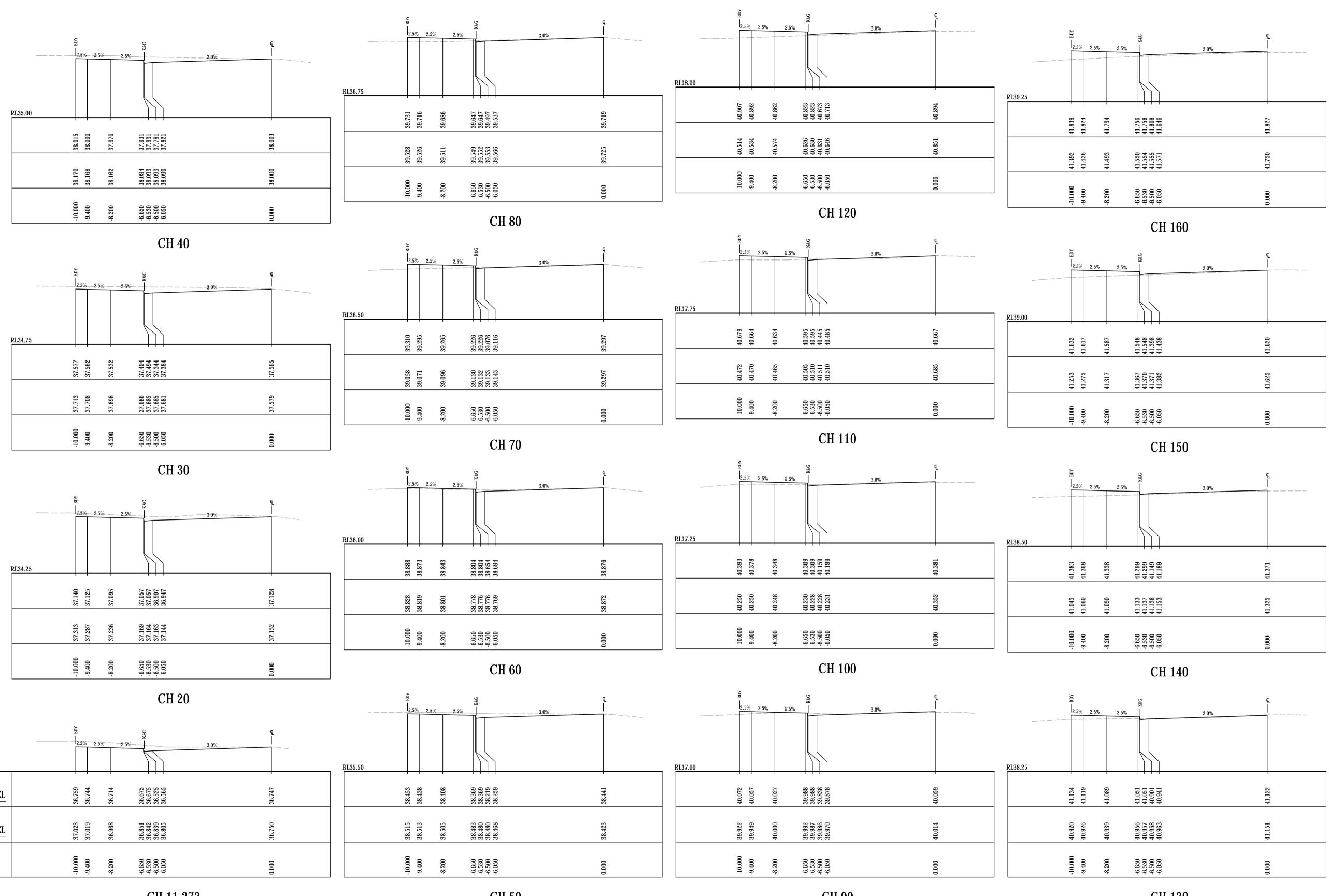


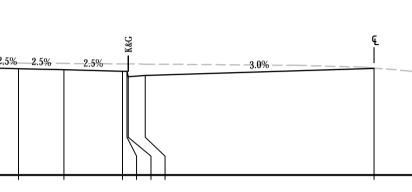
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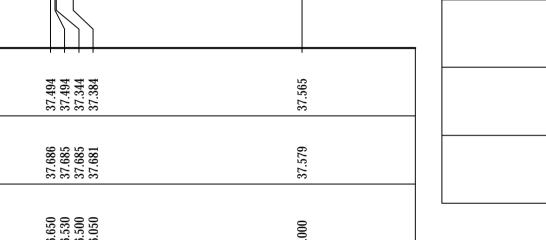


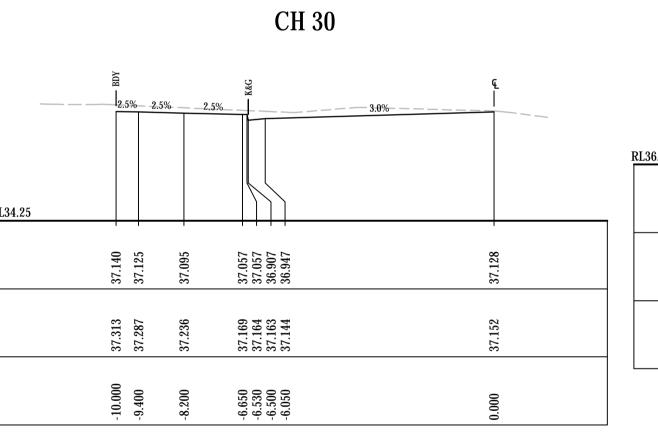
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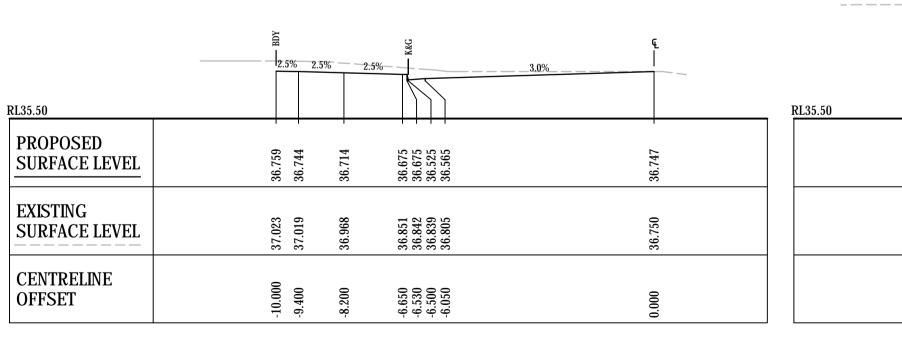
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CH 11.273

			Bar Scales							
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CH 50

CH 90

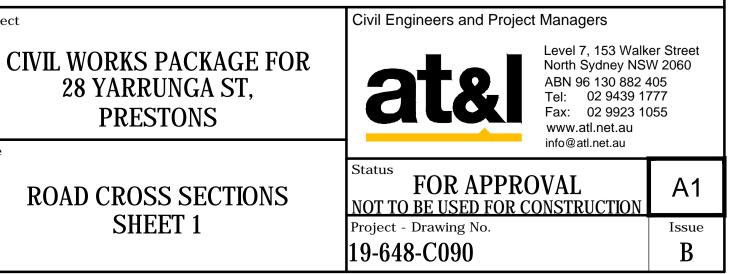
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Client

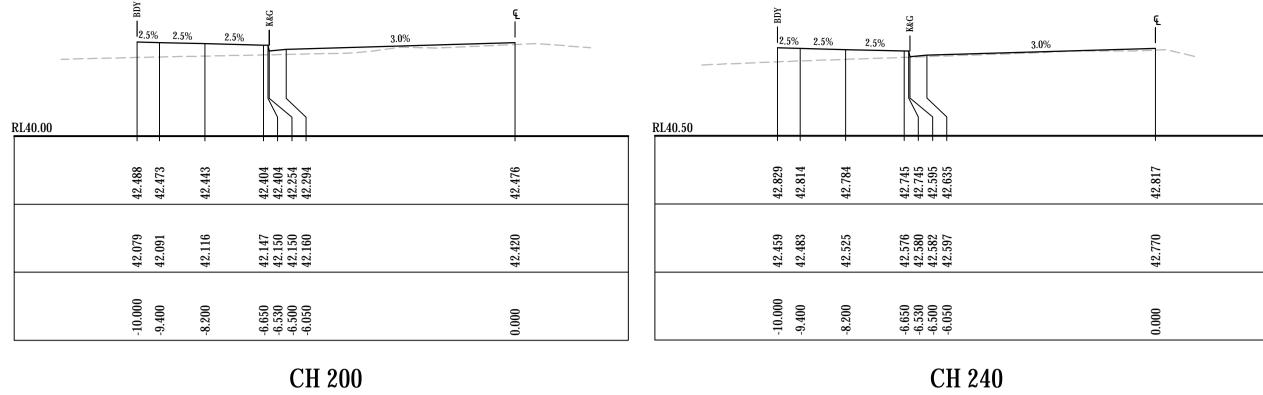


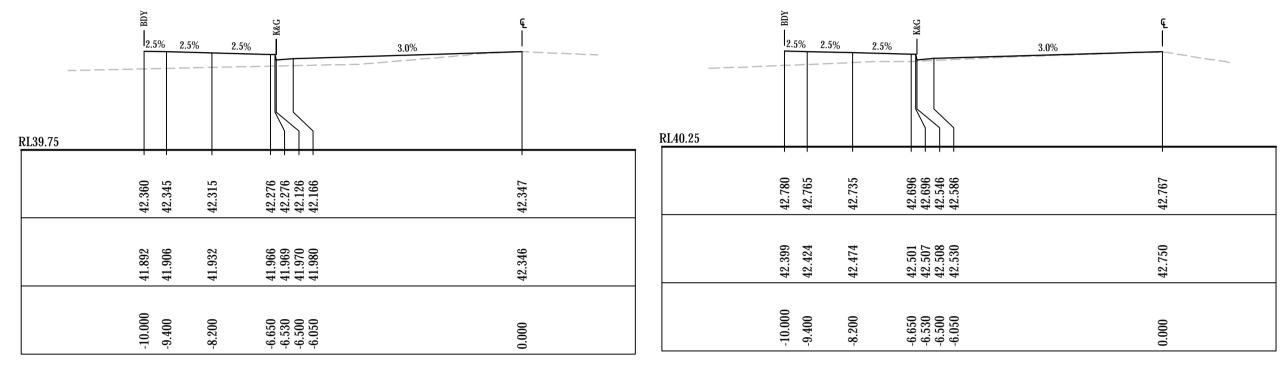
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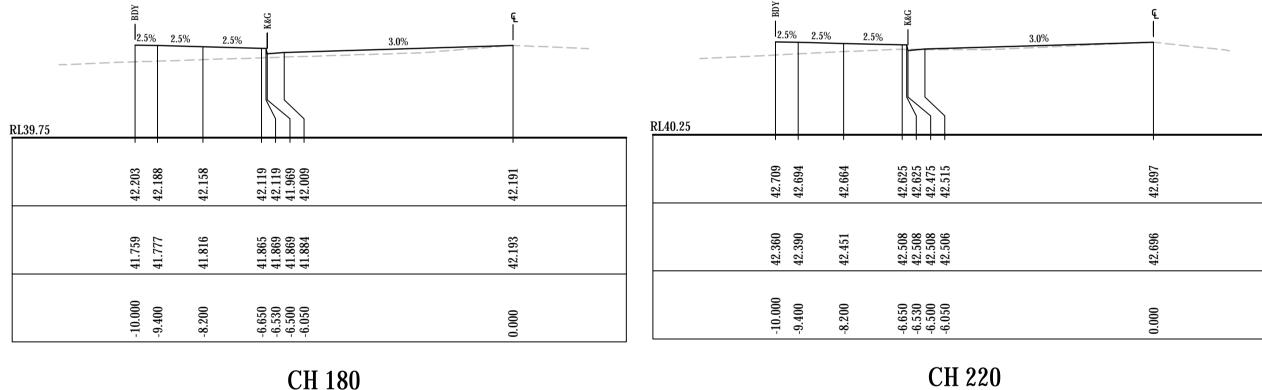


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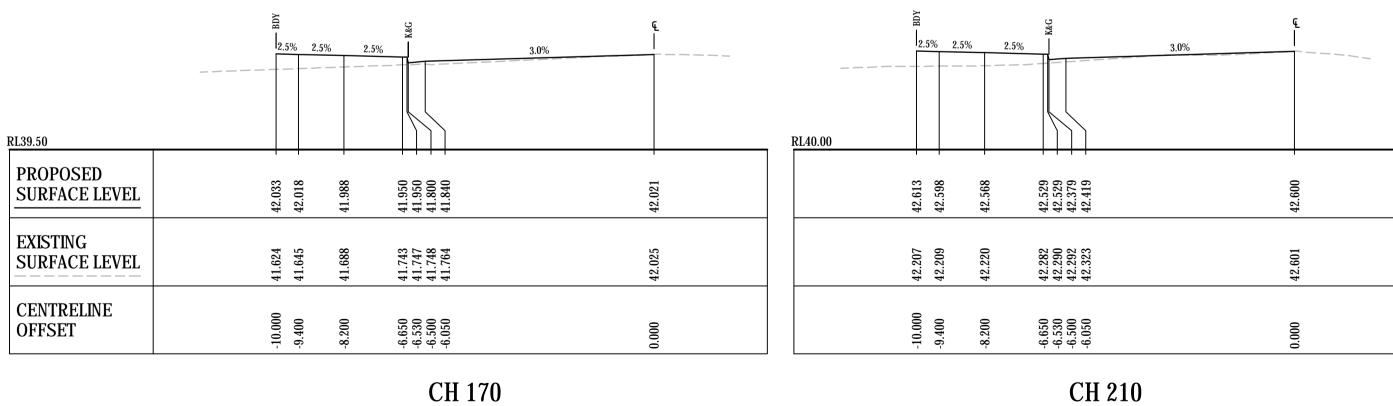




CH 190



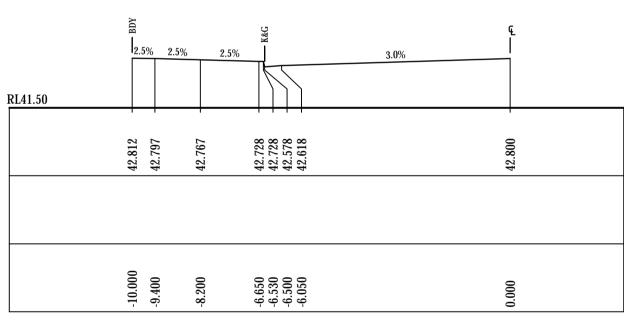
CH 180



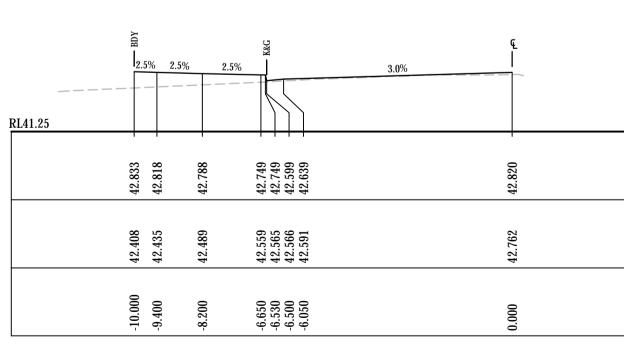
			Bar Scales							
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Α	ISSUED FOR APPROVAL	27-09-19								
Issue	Description	Date								
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CH 230



CH 255.467



CH 250

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BOAD CROSS SECTIONS	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1							
SHEET 2	Project - Drawing No.	Issue							
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Datum RL27	-															1					
BOTTOM OF	00	66	38	90	69	73	00	04	50	50	50	62	64	09	84	00	86	00	96	81	30 25
RETAINING WALL	33.500	33.999	34.538	35.006	35.369	35.673	36.000	36.004	36.250	36.250	36.250	36.262	36.264	36.260	36.384	36.500	36.486	36.500	36.796	37.081	37.030 37.025
TOP OF	87	74	61	42	83	84	63	04	04	84	17	91	71	90	42	78	14	62	11	Q	61
RETAINING WALL	37.587	37.574	37.661	37.642	37.583	37.684	37.663	37.604	37.704	37.684	37.617	37.691	37.771	37.806	37.842	37.878	37.914	37.862	37.611	37.36	37.061
HEIGHT OF												_								_	
RETAINING WALL	4.087	3.575	3.124	2.636	2.214	2.011	1.663	1.600	1.454	1.434	1.367	1.429	1.507	1.546	1.459	1.378	1.428	1.362	0.815	0.279	0.031
EXISTING																					
SURFACE LEVEL	33.500	33.999	34.538	35.006	35.369	35.673	36.000	36.004	36.250	36.250	36.250	36.262	36.264	36.260	36.384	36.500	36.486	36.500	36.796	37.081	37.030 37.025
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000 201.085
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Datum RL28 BOTTOM OF RETAINING WALL	7.464 5.441	35.099	35.118	5.193	35.259	55.263	35.224	35.214	35.199	35.169	35.020	35.201	35.727	35.336	34.975	1.489	1.386	34.260	4.319	34.380	1.458	4.483	33.909	33.783 33.582
TOP OF RETAINING WALL	37.473 37. 37.620 35.	37.524 35	10	37.414 35.	37.498 35	37.492 35	37.392 35	37.478 35	37.472 35	37.372 35	37.458 35	37.451 35	37.351 35	37.438 35	37.431 34	37.331 34	37.418 34	37.411 34	37.311 34	37.397 34	37.391 34.	37.291 34	37.381 33	37.546 33 37.586 33
HEIGHT OF RETAINING WALL	0.009	2.425	2.337	2.221	2.239	2.229	2.168	2.265	2.273	2.203	2.438	2.250	1.624	2.102	2.457	2.842	3.032	3.151	2.992	3.018	2.933	2.807	3.472	3.763 4.004
EXISTING SURFACE LEVEL	37.464 35.441	35.099	35.118	35.193	35.259	35.263	35.224	35.214	35.199	35.169	35.020	35.201	35.727	35.336	34.975	34.489	34.386	34.260	34.319	34.380	34.458	34.483	33.909	33.783 33.582
CHAINAGE	0.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000 242.402

0 2 4 6 8 1 1 1 1 1 200 @ A3 1 1 1 1 200 @ A3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Bar Scales						
Image: CREISSUED FOR APPROVAL21-11-19BISSUED FOR APPROVAL27-09-19AFOR INFORMATION05-09-19					0	2	4	6	8	10n
B ISSUED FOR APPROVAL 27-09-19 A FOR INFORMATION 05-09-19						1:1	100 @ A1	1 : 200	@ A3	
A FOR INFORMATION 05-09-19 1:200 @ A1 1:400 @ A3	С	REISSUED FOR APPROVAL	21-11-19		0	5	1	10	15	20n
	В	ISSUED FOR APPROVAL	27-09-19						- 1 A	
Issue Description Date	Α	FOR INFORMATION	05-09-19			1:2	200 @ A1	1:400	@ A3	
Date	Issue	Description	Date							

RETAINING WALL No.2 LONGITUDINAL SECTION SCALE 1:500 HORL 1:100 VERT.

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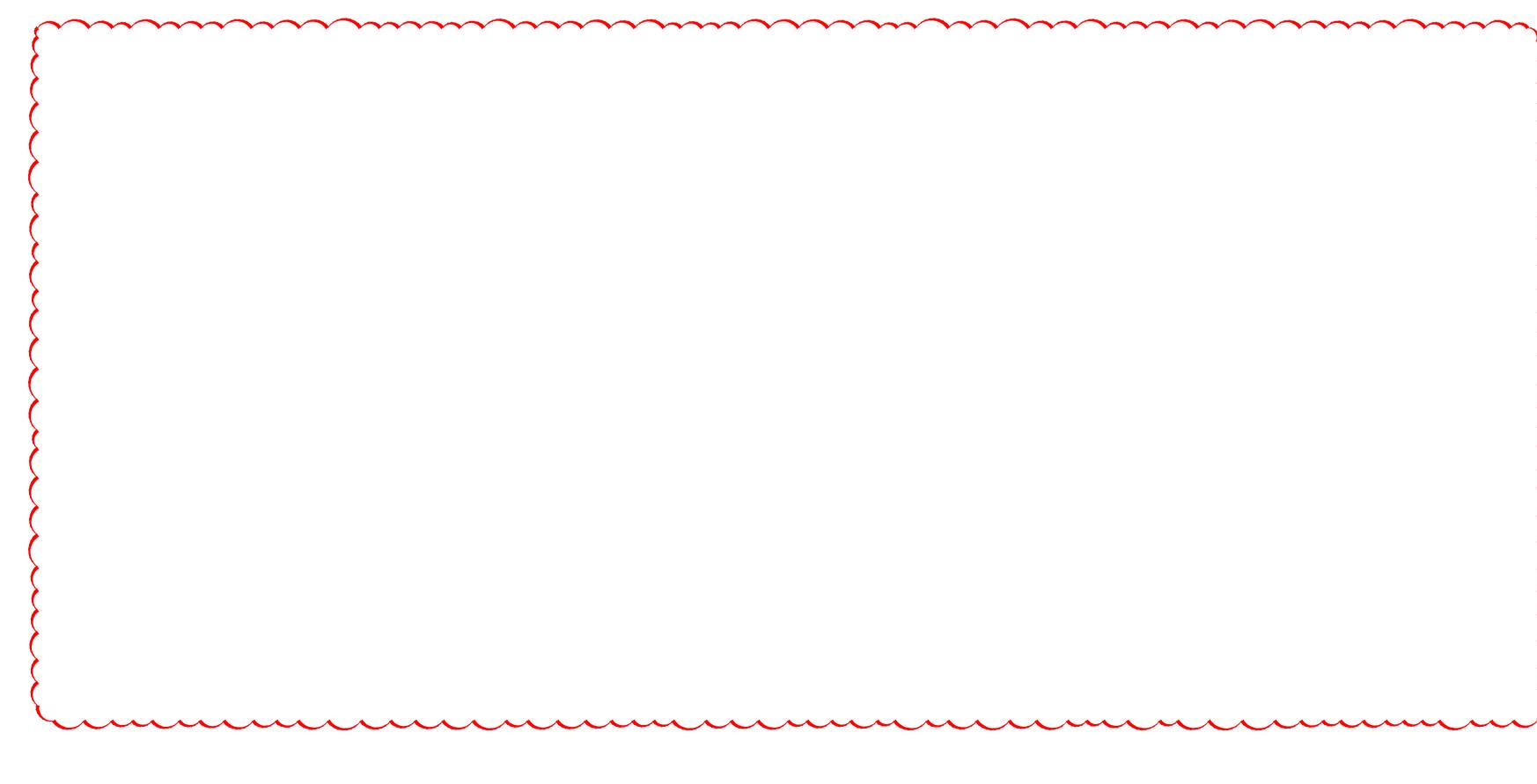


Scales		Drawn	JD	Project	Civil Engineers and Project Managers	
	AS SHOWN	Designed	JD	CIVIL WORKS PACKAGE FOR	Level 7, 153 Walk North Sydney NSV	N 2060
Grid	MGA	Checked	GJ	28 YARRUNGA ST,	ABN 96 130 882 4 Tel: 02 9439 17 Fax: 02 9923 10	777
Height Datum	AHD	Approved		PRESTONS	www.atl.net.au info@atl.net.au	555
				RETAINING WALL LONGSECTIONS SHEET 1	Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. 19-648-C095	A1 Issue C

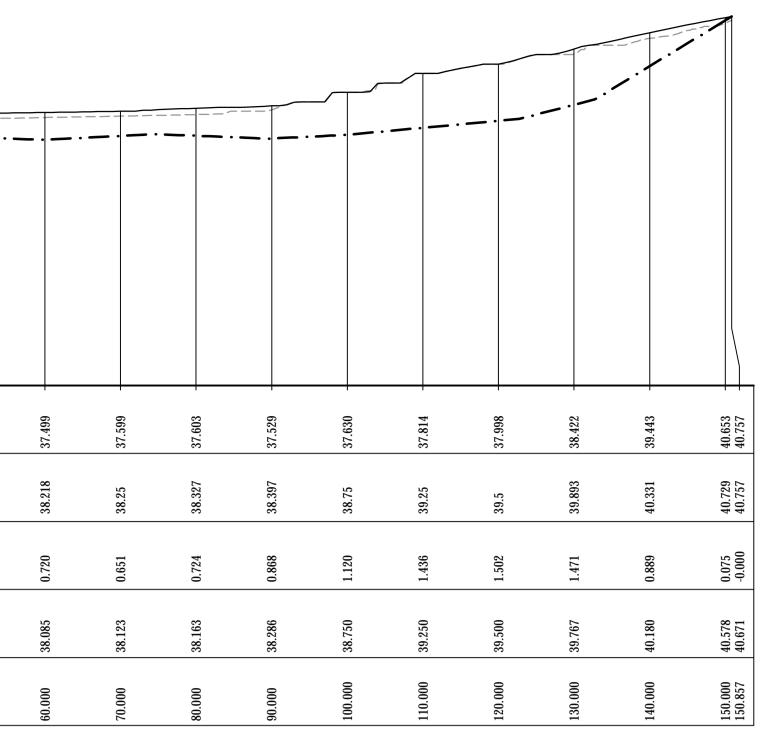
F:\19-648 Favco Prestons\6.0 Drgs\Civil\Final\19-648-C095.dwg

RETAINING WALL No.1 LONGITUDINAL SECTION SCALE 1:500 HORL 1:100 VERT.

						— · — ·
Datum RL31	,					
BOTTOM OF RETAINING WALL	37.473 -	37.538 -	37.543 -	37.468 -	37.568 -	37.573 -
TOP OF RETAINING WALL	37.466	37.682	37.872	38	38	38.188
HEIGHT OF RETAINING WALL	-0.007	0.143	0.329	0.532	0.432	0.614
EXISTING SURFACE LEVEL	37.130	37.302	37.683	37.931	37.995	38.043
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000



			Bar Scales						
				0	0		0	0	10
				0	2	4	6	8	10m
					1:10	0 @ A1	1:200	@ A3	
					1,10		11200	- 110	
				0	5		10	15	20m
В	REISSUED FOR APPROVAL	28-11-19			1 00		4 400		
Α	REISSUED FOR APPROVAL	21-11-19			1:20	0 @ A1	1:400	@ A3	
Issue	Description	Date							



Datum RL35	
BOTTOM OF	i
RETAINING WALL	42.205
TOP OF	
RETAINING WALL	
HEIGHT OF	
RETAINING WALL	
EXISTING	
SURFACE LEVEL	42.205
CHAINAGE	(
	0.000

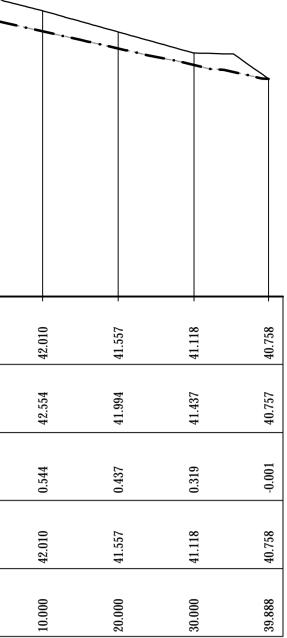
RETAINING WALL No.3 LONGITUDINAL SECTION

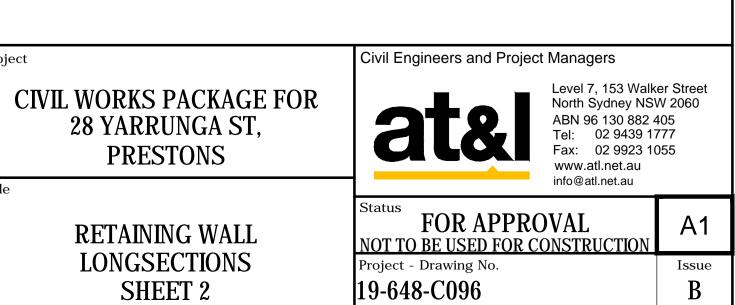
SCALE 1:500 HORI. 1:100 VERT.

RETAINING WALL No.4 LONGITUDINAL SECTION SCALE 1:500 HORL 1:100 VERT.

B

	Client	Scales		Drawn	JD	Project
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		Grid	MGA	Checked	GJ	
		Height Datum	AHD	Approved		
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