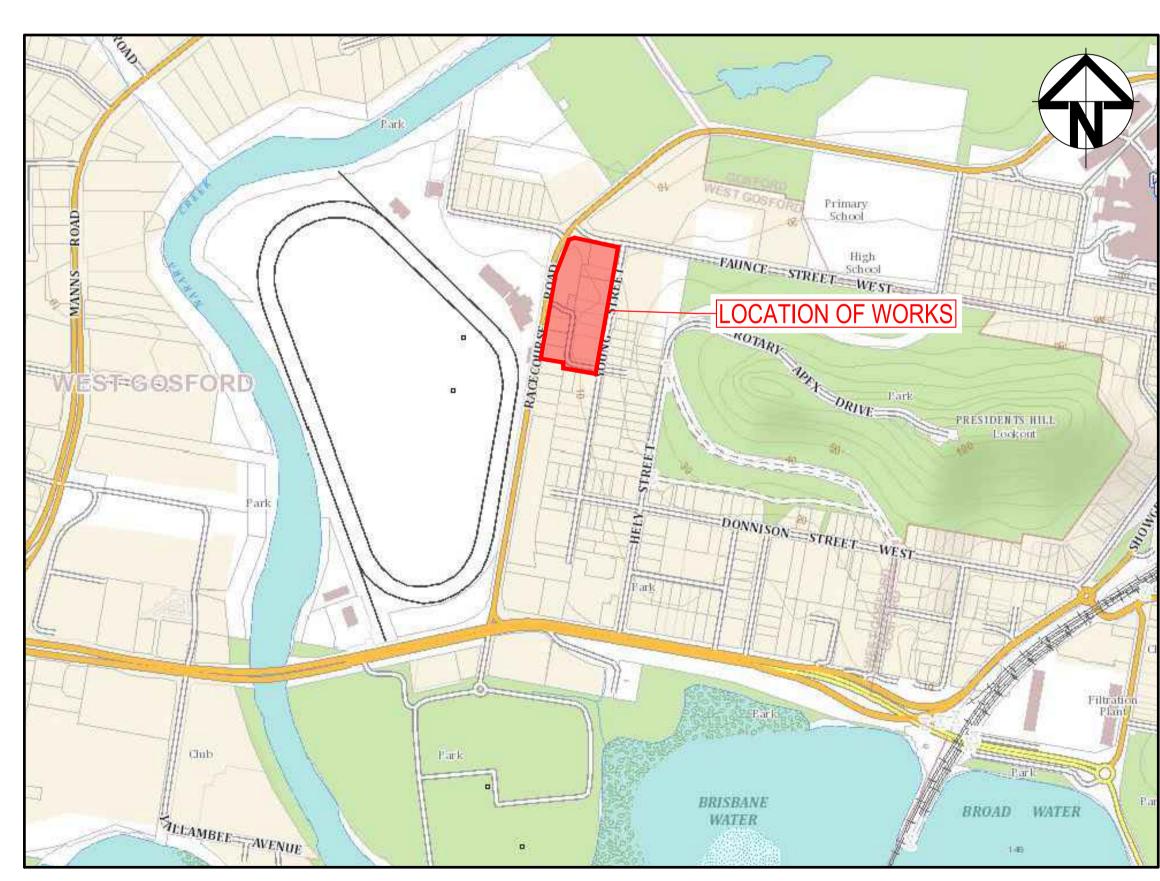
TRANSPORT DEPOT

7A-11 RACECOURSE RD, 5-9 FAUNCE ST & YOUNG ST, WEST GOSFORD CIVIL PACKAGE STATE SIGNIFICANT DEVELOPMENT



LOCALITY PLAN NOT TO SCALE

DRAWING NO.	DRAWING TITLE
GENERAL	
22-1063-DAC000	COVER SHEET AND LOCALITY PLAN
22-1063-DAC001	GENERAL NOTES AND LEGENDS
22-1063-DAC003	GENERAL ARRANGEMENT PLAN
22-1063-DAC005	EXISTING SITE PLAN
22-1063-DAC006	EXISTING SEWER RETENTION AND REMOVAL PLAN
TYPICAL CROSS SECTIONS	
22-1063-DAC011	TYPICAL CROSS SECTIONS SHEET 1 OF 4
22-1063-DAC012	TYPICAL CROSS SECTIONS SHEET 2 OF 4
22-1063-DAC013	TYPICAL CROSS SECTIONS SHEET 3 OF 4
22-1063-DAC013	TYPICAL CROSS SECTIONS SHEET 4 OF 4
SITEWORKS	
22-1063-DAC021	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 1 OF 4
22-1063-DAC022	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 2 OF 4
22-1063-DAC023	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 3 OF 4
22-1063-DAC024	SITEWORKS AND STORMWATER DRAINAGE PLAN SHEET 4 OF 4
BULK EARTHWORKS	
22-1063-DAC030	BULK EARTHWORKS CUT AND FILL PLAN
22-1063-DAC031	BULK EARTHWORKS PLAN SHEET 1 OF 4
22-1063-DAC032	BULK EARTHWORKS PLAN SHEET 2 OF 4
22-1063-DAC033	BULK EARTHWORKS PLAN SHEET 3 OF 4
22-1063-DAC034	BULK EARTHWORKS PLAN SHEET 4 OF 4
PAVEMENT	
22-1063-DAC041	PAVEMENT PLAN
22-1063-DAC042	SIGNAGE AND LINEMARKING PLAN SHEET 1 OF 2
22-1063-DAC043	SIGNAGE AND LINEMARKING PLAN SHEET 2 OF 2
DETAILS	
22-1063-DAC051	SITEWORKS DETAILS SHEET 1 OF 3
22-1063-DAC052	SITEWORKS DETAILS SHEET 2 OF 3
22-1063-DAC053	SITEWORKS DETAILS SHEET 3 OF 3
22-1063-DAC054	STORMWATER DRAINAGE DETAILS SHEET 1 OF 2
22-1063-DAC055	STORMWATER DRAINAGE DETAILS SHEET 2 OF 2
STORMWATER DRAINAGE	
22-1063-DAC060	STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 1 OF 4
22-1063-DAC061	STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 2 OF 4
22-1063-DAC062	STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 3 OF 4
22-1063-DAC063	STORMWATER DRAINAGE LONGITUDINAL SECTION SHEET 4 OF 4
22-1063-DAC064	STORMWATER DRAINAGE CALCULATION SHEET 1 OF 6
22-1063-DAC065	STORMWATER DRAINAGE CALCULATION SHEET 2 OF 6
22-1063-DAC066	STORMWATER DRAINAGE CALCULATION SHEET 3 OF 6
22-1063-DAC067	STORMWATER DRAINAGE CALCULATION SHEET 4 OF 6

DRAWING NO.	DRAWING TITLE
22-1063-DAC068	STORMWATER DRAINAGE CALCULATION SHEET 5 OF 6
22-1063-DAC069	STORMWATER DRAINAGE CALCULATION SHEET 6 OF 6
22-1063-DAC070	STORMWATER DRAINAGE PIT CATCHMENT PLAN
22-1063-DAC071	STORMWATER DRAINAGE OSD CATCHMENT PLAN
22-1063-DAC072	STORMWATER DRAINAGE WSUD CATCHMENT PLAN
22-1063-DAC073	STORMWATER DRAINAGE OSD 1 ROOF PLAN
22-1063-DAC074	STORMWATER DRAINAGE OSD 1 BASE PLAN
22-1063-DAC075	STORMWATER DRAINAGE OSD 1 SECTIONS AND DETAILS
22-1063-DAC076	STORMWATER DRAINAGE OSD 2 ROOF PLAN
22-1063-DAC077	STORMWATER DRAINAGE OSD 2 BASE PLAN
22-1063-DAC078	STORMWATER DRAINAGE OSD 2 SECTIONS AND DETAILS
EROSION AND SEDIMENT CONTROL	
22-1063-DAC081	EROSION AND SEDIMENT CONTROL PLAN
22-1063-DAC085	EROSION AND SEDIMENT CONTROL DETAILS
RETAINING WALL	
22-1063-DAC090	RETAINING WALL GENERAL ARRANGEMENT PLAN
22-1063-DAC091	RETAINING WALL ELEVATIONS
TURNING PATHS	
22-1063-DAC100	TURNING PATH PLAN
DRAWING NO.	DRAWING TITLE
DRAWING NO. SUPPLEMENTARY DRAWINGS	DRAWING TITLE
	DRAWING TITLE COVER SHEET & DRAWING LIST
SUPPLEMENTARY DRAWINGS	
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01	COVER SHEET & DRAWING LIST
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.03	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02 SHORING WALL RW NO.01 ELEVATION - E03
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.03 TRIAXIAL DWG TX17790.00 - S3.03 TRIAXIAL DWG TX17790.00 - S3.04	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02 SHORING WALL RW NO.01 ELEVATION - E03 SHORING WALL RW NO.01 ELEVATION - E04
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.03 TRIAXIAL DWG TX17790.00 - S3.04 TRIAXIAL DWG TX17790.00 - S3.05	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02 SHORING WALL RW NO.01 ELEVATION - E03 SHORING WALL RW NO.01 ELEVATION - E04 SHORING WALL RW NO.01 ELEVATION - E05 PART 1
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.03 TRIAXIAL DWG TX17790.00 - S3.04 TRIAXIAL DWG TX17790.00 - S3.05 TRIAXIAL DWG TX17790.00 - S3.06	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02 SHORING WALL RW NO.01 ELEVATION - E03 SHORING WALL RW NO.01 ELEVATION - E04 SHORING WALL RW NO.01 ELEVATION - E05 PART 1 SHORING WALL RW NO.01 ELEVATION - E05 PART 2
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.03 TRIAXIAL DWG TX17790.00 - S3.04 TRIAXIAL DWG TX17790.00 - S3.05 TRIAXIAL DWG TX17790.00 - S3.06 TRIAXIAL DWG TX17790.00 - S3.07	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02 SHORING WALL RW NO.01 ELEVATION - E03 SHORING WALL RW NO.01 ELEVATION - E04 SHORING WALL RW NO.01 ELEVATION - E05 PART 1 SHORING WALL RW NO.01 ELEVATION - E05 PART 2 SHORING WALL RW NO.01 ELEVATION - E05 PART 2
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.03 TRIAXIAL DWG TX17790.00 - S3.05 TRIAXIAL DWG TX17790.00 - S3.06 TRIAXIAL DWG TX17790.00 - S3.07 TRIAXIAL DWG TX17790.00 - S3.07 TRIAXIAL DWG TX17790.00 - S3.08	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02 SHORING WALL RW NO.01 ELEVATION - E03 SHORING WALL RW NO.01 ELEVATION - E04 SHORING WALL RW NO.01 ELEVATION - E05 PART 1 SHORING WALL RW NO.01 ELEVATION - E05 PART 2 SHORING WALL RW NO.01 ELEVATION - E06 SHORING WALL RW NO.01 ELEVATION - E06
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.03 TRIAXIAL DWG TX17790.00 - S3.04 TRIAXIAL DWG TX17790.00 - S3.05 TRIAXIAL DWG TX17790.00 - S3.06 TRIAXIAL DWG TX17790.00 - S3.07 TRIAXIAL DWG TX17790.00 - S3.08 TRIAXIAL DWG TX17790.00 - S3.08 TRIAXIAL DWG TX17790.00 - S4.01	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02 SHORING WALL RW NO.01 ELEVATION - E03 SHORING WALL RW NO.01 ELEVATION - E04 SHORING WALL RW NO.01 ELEVATION - E05 PART 1 SHORING WALL RW NO.01 ELEVATION - E05 PART 2 SHORING WALL RW NO.01 ELEVATION - E05 PART 2 SHORING WALL RW NO.01 ELEVATION - E06 SHORING WALL RW NO.01 CONSTRUCTION SEQUENCE SHORING WALL SECTIONS
SUPPLEMENTARY DRAWINGS TRIAXIAL DWG TX17790.00 - S1.01 TRIAXIAL DWG TX17790.00 - S1.02 TRIAXIAL DWG TX17790.00 - S1.03 TRIAXIAL DWG TX17790.00 - S2.01 TRIAXIAL DWG TX17790.00 - S2.02 TRIAXIAL DWG TX17790.00 - S2.03 TRIAXIAL DWG TX17790.00 - S3.01 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.02 TRIAXIAL DWG TX17790.00 - S3.03 TRIAXIAL DWG TX17790.00 - S3.05 TRIAXIAL DWG TX17790.00 - S3.06 TRIAXIAL DWG TX17790.00 - S3.07 TRIAXIAL DWG TX17790.00 - S3.08 TRIAXIAL DWG TX17790.00 - S4.01 TRIAXIAL DWG TX17790.00 - S5.01	COVER SHEET & DRAWING LIST GENERAL NOTES SHEET 1 GENERAL NOTES SHEET 2 OVERALL SITE RETENTION PLAN SHORING WALL RW NO.01 PLAN - PART 1 SHORING WALL RW NO.01 PLAN - PART 2 SHORING WALL RW NO.01 ELEVATION - E01 SHORING WALL RW NO.01 ELEVATION - E02 SHORING WALL RW NO.01 ELEVATION - E03 SHORING WALL RW NO.01 ELEVATION - E04 SHORING WALL RW NO.01 ELEVATION - E05 PART 1 SHORING WALL RW NO.01 ELEVATION - E05 PART 2 SHORING WALL RW NO.01 ELEVATION - E06 SHORING WALL RW NO.01 CONSTRUCTION SEQUENCE SHORING WALL SECTIONS SHORING WALL DETAILS

			Bar Scales
С	REISSUED FOR SOFAC RESPONSE	18-03-24	
В	REISSUED FOR SOFAC RESPONSE	08-02-24	
Α	ISSUED FOR SOFAC RESPONSE	06-02-24	
Issue	Description	Date	

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WALUYA PTY LTD

Client

Scales	NTC	Drawn	ASD	Project
	NTS	Designed	ASD	
Grid	MGA56	Checked	GJ	5-9
Height Datum	AHD	Approved	AT	
				Title

TRANSPORT DEPORT 7A-11 RACECOURSE RD -9 FAUNCE ST & YOUNG ST WEST GOSFORD

COVER SHEET AND LOCALITY PLAN

ivil Engineers and Project Managers
Level 7, 153 Walker North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 408

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION roject - Drawing No.

22-1063-DAC000

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 R.M.S. SPECIFICATION R116
- 8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNBOUND), R.M.S. 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 50m OF BASECOURSE MATERIAL PLACED.
- 9. 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 A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m 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 R M S. 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.

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= 312 mm/hr 1:20 YEARS= 218 mm/hr (C) RUNOFF COEFFICIENTS:
- RUUF AREAS: C $_{100}$ =1.0 EXTERNAL PAVEMENTS: C $_{20}$ =1.0
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '4 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 (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)
- 7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) 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.
- 0. 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.
- 12. GRATES AND COVERS SHALL CONFORM TO AS 3996.

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- 13. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 8.2.
- 14. 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.

KERBING NOTES

- 1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa 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.

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	32	60	20
KERBS, PATHS, AND	32	80	20
PITS			

- 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.T.A. SPECIFICATION R83.
- 7. 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

17 N 20 250

NOMINAL BAR SIZE IN mm — SPACING IN mm THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERANCE NUMBER FOR FABRIC TO AS 1304.

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING



CONSTRUCTION SPECIFICATION

- . THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH CENTRAL COAST COUNCIL'S LATEST REVISION OF THE 'ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS'
- 2. WHERE THERE IS A CONFLICT THE FOLLOWING IS TO OCCUR 2.1. NOTIFY THE DESIGN ENGINEER AND/OR SUPERINTENDENT 2.2. CENTRAL COAST COUNCIL'S SPECIFICATION TAKES PRECEDENT

Bar Scales

08-02-24

06-02-24

Date

BULK EARTHWORKS NOTES

- 1. ORIGIN OF LEVELS: REFER SURVEY NOTES
- 2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
- 3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.

98%

4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION STANDARD DRY DENSITY (AS 1289 E 5.1.1.)

UNDER BUILDING SLABS ON GROUND UNDER ROADS AND

CARPARKS LANDSCAPED AREAS UNLESS NOTED OTHERWISE 98%

- 6. 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)

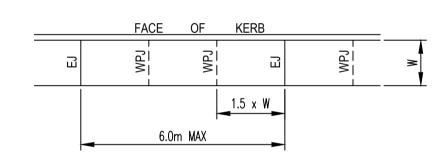
5. FOR NON COHESIVE MATERIAL, COMPACT TO 75%DENSITY INDEX.

- 7. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN: (A) 1 TEST PER 200mOF FILL PLACED PER 300 LAYER OF FILL. (B) 3 TESTS PER VISIT
- (C) 1 TEST PER 1000mOF EXPOSED SUBGRADE TESTING SHALL BE "LEVEL TESTING IN ACCORDANCE WITH AS 3798
- (1996). 8. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mlpAYERS
- 9. 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.

JOINTING NOTES

PEDESTRIAN PAVEMENT JOINTS

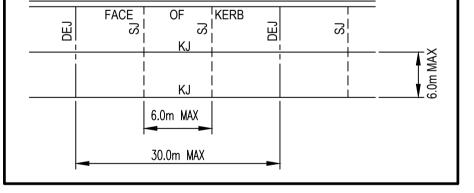
- 1. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O) 2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
- 3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
- 4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
- 5. PEDESTRIAN PAVEMENT JOINT DETAIL.



NB: CHECK RELEVANT COUNCIL REQUIREMENTS IF IN PUBLIC ROAD.

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 30.0m CENTRES
- 9. VEHICULAR PAVEMENT JOINT DETAIL.



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

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 WHATSOFVER
- 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.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY TREHY INGOLD NEATE. 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 &

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE

ORIGINAL SURVEY DOCUMENTS.

- 1. HISTORICAL SURVEY DATA USED FROM SURVEY "19881A01L" DATED
- "23 05 2005" BOUNDARIES ARE NOT FINAL AND FURTHER INVESTIGATION REQUIRED FOR BOUNDARIES IF THEY ARE REQUIRED FOR ANY DESIGN PURPOSES.
- THESE NOTES AND LEGEND (IF SHOWN) FORM PART OF THE PLAN AND SURVEY AND MUST REMAIN WITH THE PLAN IN ANY REPRODUCTION IN WHOLE OR PART.
- THE CAD FILE USES METRES AS ITS BASE UNIT AND IS IN A "GROUND" COORDINATE SYSTEM. IF THE SURVEY IS STATED AS MGA. ANY POINT IN THE FILE WILL BE AN APPROXIMATE MGA COORDINATE.
- SOME SYMBOLS REPRESENTING PHYSICAL STRUCTURES SUCH AS POWER POLES AND PITS ARE DIAGRAMMATIC ONLY AND DO NOT NECESSARILY REPRESENT THE ACTUAL SIZE AND EXTENT OF THESE
- THE SURVEY INFORMATION SHOWN HERE WAS PREPARED FOR A SPECIFIC PURPOSE FOR THE CLIENT SHOWN. THIS INFORMATION IS NOT INTENDED TO BE USED FOR ANY OTHER PURPOSE OR BY ANYONE NOT AUTHORISED BY THIS CLIENT

BOUNDARY DIMENSIONS AND AREAS HAVE BEEN DETERMINED BY

- CURRENT CADASTRAL SURVEY AND THE BOUNDARY AND EASEMENT LINES IN THE ELECTRONIC FILE HAVE BEEN INCLUDED USING THOSE SURVEYED DIMENSIONS. THE TITLE DIMENSIONS SHOWN ON THE HARD COPY PLAN TAKE PRECEDENCE OVER THE LINES IN THE ELECTRONIC FILE. THE TITLE/S TO THE SUBJECT LAND HAS BEEN REVIEWED AND THE
- POSITION OF ALL EASEMENTS AFFECTING THE LAND ARE SHOWN. THE TERMS OF ANY EASEMENT. RESTRICTION ON THE USE OF LAND OR COVENANT AFFECTING THE LAND HAVE NOT BEEN INVESTIGATED. LEASES AND OTHER NOTATIONS MAY ALSO EXIST WHICH AFFECT THE
- UNDERGROUND SERVICES OTHER THAN THOSE SHOWN HAVE NOT BEEN INVESTIGATED. PRIOR TO DEMOLITION, EXCAVATION OR CONSTRUCTION WORK ON THE SITE, THE RELEVANT SERVICE AUTHORITY SHOULD BE CONTACTED TO ESTABLISH DETAILED LOCATION AND DEPTH.
- 10. THIS SURVEY IS LIMITED TO IMPROVEMENTS AND OTHER DETAIL WHICH WERE VISIBLE AND ACCESSIBLE AT THE TIME OF SURVEY. THE LOCATION OF DETAIL SUCH AS PRIVATE UNDERGROUND SERVICE LINES AND BUILDING FOUNDATIONS WITHIN THE SITE IS UNKNOWN.
- THE COORDINATES WITHIN THIS DRAWING RELATE TO THE DATUM SHOWN IN THE TITLE BLOCK. REFER TO A REGISTERED LAND SURVEYOR FOR FURTHER CLARIFICATION, CAUTION SHOULD BE TAKEN WHEN IMPORTING INFORMATION OBTAINED FROM OTHER SUB-CONSULTANTS OR SOURCES TO ENSURE THAT THE DATA IS ON A MATCHING COORDINATE SYSTEM.
- 12. CONTOURS SHOWN HEREON DEPICT THE GENERAL TOPOGRAPHY ONLY. EXCEPT AT SPOT LEVELS SHOWN, THEY DO NOT NECESSARILY REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT.
- 13. ANY GUTTER, RIDGE, ROOF AND WINDOW DETAILS AND LEVELS SHOWN HAVE BEEN OBTAINED VIA INDIRECT SURVEY METHODS WHERE VISIBLE FROM GROUND LEVEL AND ARE SHOWN ON THIS PLAN IN THEIR APPROXIMATE LOCATION FOR THE PURPOSE OF GENERAL SITE ANALYSIS ONLY. 14. ANY TREE CANOPIES, TRUNK DIAMETERS AND HEIGHTS SHOWN ARE
- APPROXIMATE ONLY AND SHOULD BE VERIFIED BY FURTHER SURVEY WORKS IF CRITICAL TO DESIGN OR SITE ANALYSIS. 15. SMALL TREES, SHRUBS, GARDEN FEATURES, PATHWAYS AND OTHER MINOR DETAIL MAY NOT BE SHOWN ON THIS PLAN, FOR THE PURPOSES OF THIS SURVEY.

ORIGIN OF LEVELS: PM 19232 R.L. 14.428 (AHD)

WALUYA PTY LTD

Client

EROSION AND SEDIMENT CONTROL

GENERAL INSTRUCTIONS

- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
- THE EXTENT AND POSITION OF THE EROSION AND SEDIMENT CONTROL MEASURES TO BE DETERMINED ON SITE BY THE CONTRACTOR TO SUIT THE CONSTRUCTION PROGRAM.
- THESE PLANS PRESENT CONCEPTS ONLY AND THE MEASURES SHOWN ON THIS DRAWING(S) ARE MINIMUM REQUIREMENTS ONLY. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT, MANAGEMENT AND MAINTENANCE OF THE EROSION
- AND SEDIMENT CONTROL MEASURES TO MEET COUNCIL STANDARDS. LARGE OPEN AREAS OR STEEP BATTERS SHOULD NOT BE LEFT EXPOSED/UNSTABILISED FOR MORE THAN 10 DAYS OR IF WET
- WEATHER IS FORECAST. EXPOSED AREAS INCLUDING BATTERS WHICH REMAIN UN-WORKED FOR MORE THEN 10 DAYS SHOULD BE STABILISED USING TEMPORARY
- HYDROMULCHING, HYDROSEEDING OR MULCHING, EVEN IF AREAS WILL BE WORKED AT A LATER TIME. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH:
- b) EPA REQUIREMENTS c) NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION" 4TH EDITION MARCH

a) LOCAL AUTHORITY REQUIREMENTS

- 8. THE CONTRACTOR SHALL BE AWARE OF ITS RESPONSIBILITIES FOR PROTECTING THE DOWNSTREAM ENVIRONMENT AND RECEIVING WATER FROM POLLUTION AND ENVIRONMENTAL HARM, UNDER THE
- **ENVIRONMENTAL PROTECTION ACT 1994.** ADDITIONALLY THE CONTRACTOR SHALL BE AWARE OF ITS DUTY TO NOTIFY THE LOCAL AUTHORITY AND THE ENVIRONMENTAL PROTECTION AGENCY (NSW) OF A POTENTIAL OR ACTUAL INCIDENT OF ENVIRONMENTAL HARM, UNDER THE ENVIRONMENTAL PROTECTION ACT 1994.

RECOMMENDED IMPLEMENTATION SEQUENCE:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO WORKS COMMENCING AND IN THE FOLLOWING SEQUENCE.
- a. CONSTRUCT TEMPORARY STABILISED SITE ACCESS, ENSURING ADJACENT STORMWATER RUN OFF IS DIVERTED AWAY FROM
- b. INSTALL SEDIMENT FENCING AND/OR BARRIER FENCING TO CONFINE INGRESS TO AND EGRESS FROM THE SITE TO STABILISED ACCESS POINT(S) ONLY.
- PROVIDE INLET PROTECTION TO STORMWATER INLETS AND GULLIES ON ALL ROADS ADJOINING THE SITE. d. CONSTRUCT BARRIER FENCING AROUND RESTRICTED 'NO-GO'
- ZONES OF RETAINED VEGETATION, AREAS NOT TO BE DISTURBED AND AREAS WHICH WILL REMAIN UN-WORKED. e. CONSTRUCT UPSTREAM DIVERSION CHANNELS TO DIVERT CLEAN WATER AROUND WORKSITE, AND INSTALL APPROPRIATE
- CHANNEL STABILISATION. f. CONSTRUCT LOW FLOW EARTH BANKS AS CATCH DRAINS PARALLEL TO CONTOURS TO LIMIT LARGE SLOPE LENGTHS
- (SLOPES SHOULD BE LESS THEN 80M IN LENGTH). INSTALL ALL TEMPORARY SEDIMENT FENCES. CONSTRUCT ANY NOMINATED SEDIMENT BASINS AND SEDIMENT
- i. STABILISE ALL DISTURBED AREAS ASAP AND PROGRESSIVELY AS WORKS ARE COMPLETED. TEMPORARY STABILISATION TO BE DONE USING MULCHING, HYDROMULCHING, HYDROSEEDEDING OR DIRECT SEEDING TO GIVE A 70% COVERAGE OF GROUND SURFACE WITHIN 14 DAYS OF WORKS COMPLETING (EVEN IF
- WORKS MAY CONTINUE LATER). UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO MINIMUM WORKABLE AREAS.
- DISTURBED AREAS TO EXTEND NO MORE THAN 5 METRES (PREFERABLY 2 METRES) FROM ESSENTIAL WORKS AREAS.
- WORK AREAS TO BE DELINEATED BY BARRIER FENCING AND DIVERSION CHANNEL UPSLOPE AND SEDIMENT FENCING DOWNSLOPE. THE CONTRACTOR SHALL ENSURE THAT THE EXISTING VEGETATION
- AND GROUNDCOVER IS RETAINED AS MUCH AS POSSIBLE. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR LATER USE ONSITE.
- SITE VEGETATION APPROVED FOR CLEARING SHOULD BE MULCHED AND STOCKPILED FOR LATER USE IN LANDSCAPING, STABILISATION AND/OR SITE REHABILITATION WORKS
- AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION AND RECEIVING ENVIRONMENTS. EROSION AND SEDIMENT CONTROL PROTECTION MEASURES SHALL BE
- MAINTAINED BY THE CONTRACTOR THROUGHOUT CONTRACT. 10. PLANS AND CONTROL MEASURES FOR LARGE SITES WILL NEED TO BE REVISED AND UPDATED TO REFLECT THE SITE STAGES AND PROGRESSION OF WORKS.
- REINSTATED AS WORKS PROGRESS. 12. FOOT AND VEHICULAR TRAFFIC TO BE RESTRICTED IN RECENTLY STABILISED AREAS INCLUDING THOSE HYDROSEEDED, TURFED OR

SEEDED.

Scales

Datum

NTS

MGA56

AHD

MEASURES INCLUDING SEDIMENT FENCES SHOULD BE MOVED AND

CONTRACTOR SHALL CALL; DIAL BEFORE YOU DIG 1100 PRIOR TO COMMENCEMENT OF WORK TO OBTAIN

ASD

ASD

GJ

Designed

Checked



DUST CONTROL

DURING WINDY AND DRY WEATHER ANY UNPROTECTED AREAS SHALL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. WHERE WATER IS NOT AVAILABLE IN SUFFICIENT QUANTITIES, SOIL BINDERS OR DUST RETARDANTS TO BE USED FOR DUST SUPPRESSION.

EXPOSED SURFACES INCLUDING BATTERS SHOULD BE LEFT ROUGH

TO REDUCE WIND SPEEDS AND POTENTIAL FOR WIND EROSION. USE OPEN WEAVE BARRIER FENCING ON WINDWARD SIDE OF SITE IF REQUIRED. FENCING IS GENERALLY REQUIRED WHERE AREA OF DISTURBANCE IS >5000m².

CONTROL MEASURES

- FINAL SITE LANDSCAPING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS OF CONSTRUCTION COMPLETION.
- SEDIMENT LADEN WATER SHALL BE PREVENTED FROM ENTERING THE
- PERMANENT DRAINAGE SYSTEM BY USING INLET PROTECTION. 3. ALL PERIMETER BANKS AND CHANNEL DRAINS SHALL HAVE
- UNINTERRUPTED POSITIVE GRADE TO AN OUTLET 4. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED ONCE SITE IS STABILISED AND UPSTREAM
- WORKS HAVE BEEN COMPLETED. AT CONSTRUCTION COMPLETION ALL TEMPORARY EARTH STRUCTURES, INCLUDING SOIL STOCKPILES ARE TO BE TRACK ROLLED AND SEEDED. THE CONTRACTOR IS TO ENSURE A 70% COVERAGE WITHIN 14 DAYS.

OTHER MATTERS

- ACCEPTABLE RECEPTORS AND DISPOSAL PRACTICES WILL BE USED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHERS. LITTER AND GENERAL WASTE MATERIALS
- ANY EXISTING TREES WHICH ARE NOT REQUIRED OR APPROVED TO BE CLEARED FOR THE WORKS AND/OR FORM PART OF THE FINAL LANDSCAPING PLAN SHOULD BE PROTECTED FROM CONSTRUCTION
- ACTIVITIES BY: a. PROTECTING THEM WITH BARRIER FENCING OR MARKERS.
- ENSURING NOTHING IS NAILED TO THEM PROHIBITING PAVING, GRADING OR PLACING OF STOCKPILES WITHIN DRIP LINE.
- ALL VEHICLE AND EQUIPMENT WASHING SHOULD BE CONTAINED IN SPECIFIC BUNDED AREAS, DISCONNECTED FROM CONCENTRATED
- PATHS AND THE STORMWATER SYSTEM.
- UNDERTAKEN AWAY FROM CONCENTRATED FLOW PATHS AND PREFERABLY WITHIN A BUNDED AREA. ANY ONSITE FUEL STORAGE AREAS SHOULD BE COVERED AND

ANY NECESSARY VEHICLE OR EQUIPMENT REFUELING SHOULD BE

MAINTENANCE OF PUBLIC ROADS

- ALL CONSTRUCTION VEHICLES DEPARTING FROM THE SITE SHALL HAVE THEIR TYRES WASHED DOWN OR SEDIMENT REMOVED BY A STABILISED SITE ACCESS DEVICE.
- THE STABILISED SITE ACCESS AREAS SHALL BE LOCATED SUCH THAT SILTED WATER IS FILTERED THROUGH A SUITABLE SEDIMENT TRAP (SUCH AS A SEDIMENT FENCE) INSTALLED DOWNSTREAM OF

THE CONTRACTOR SHALL INSPECT THE PUBLIC ROADS ADJACENT TO

THE SITE DAILY AND MANUALLY REMOVE ANY SEDIMENT DEPOSITS

(BY SWEEPING NOT WASH DOWN). SITE INSPECTION AND MAINTENANCE

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED REGULARLY, IMMEDIATELY BEFORE SITE CLOSURE, PRIOR TO PREDICTED LARGE STORM EVENTS AND AFTER EVERY
- SIGNIFICANT (> 5MM) RAINFALL EVENT OR AT LEAST ON A WEEKLY THE CONTRACTOR WILL AS A MINIMUM CONDUCT EACH INSPECTION IN
- LINE WITH THE FOLLOWING a. RECORD TYPE OF DEVICE/CONTROL MEASURE BEING INSPECTED AND ITS LOCATION;
- RECORD THE CONDITION OF EVERY CONTROL MEASURE; RECORD MAINTENANCE REQUIREMENTS FOR EVERY CONTROL
- DEVICE: d. RECORD SEDIMENT VOLUMES REMOVED FROM SEDIMENT

e. RECORD DETAILS OF SEDIMENT BASIN TREATMENT, SURVEY LEGEND

TRAPPING DEVICES;

Bench Mark Comms Underground Comms Pit/Manhole Comms Pillar Drainage Grated Pit Drainage Kerb Inlet Pit Electrical Power Pole Electrical Underground Cable ——— UE ——— Fence 8 Road Bollard

Sewer Manhole Sewer Pipe Sign Post

Tree (Height, Trunk Diameter, Spread) Water Meter

Water Tap Water Stop Valve Water Hydrant Bottom of Bank _____ Top of Bank Civil Engineers and Project Managers

www.atl.net.au ABN 96 130 882 405 FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Issue

____ s___

{ H}5 D:0.2 S:4

ALL CURRENT SERVICE AUTHORITY PLANS

WEST GOSFORD Approved ΑT Title

GENERAL NOTES AND LEGENDS

TRANSPORT DEPORT

7A-11 RACECOURSE RD

5-9 FAUNCE ST & YOUNG ST

Project - Drawing No. 22-1063-DAC001

F:\22-1063 West Gosford\6.0 Drgs\Civil\Final\22-1063-DAC001.dwg 1423

100mm on Original

Description

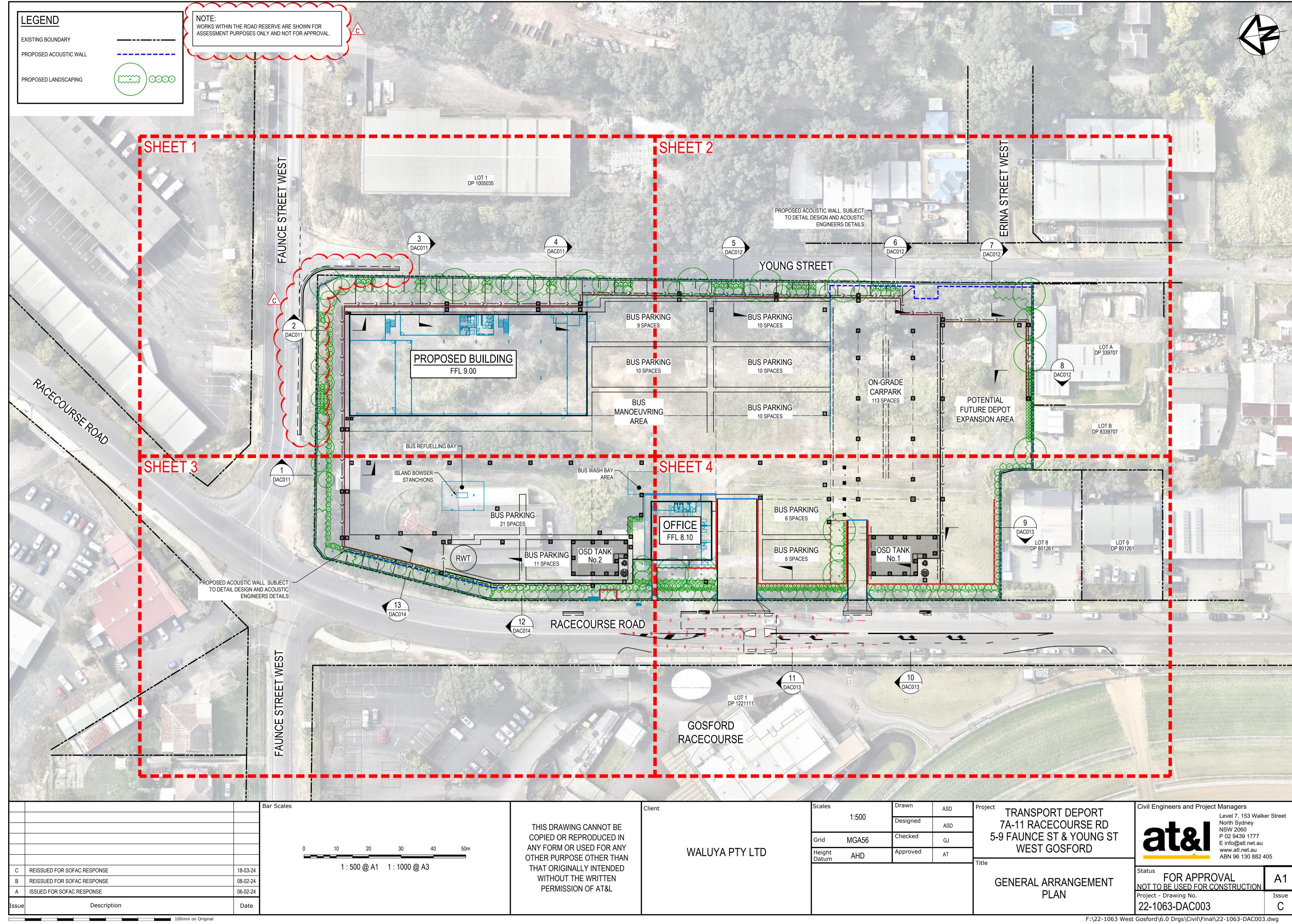
Level 7, 153 Walker Street

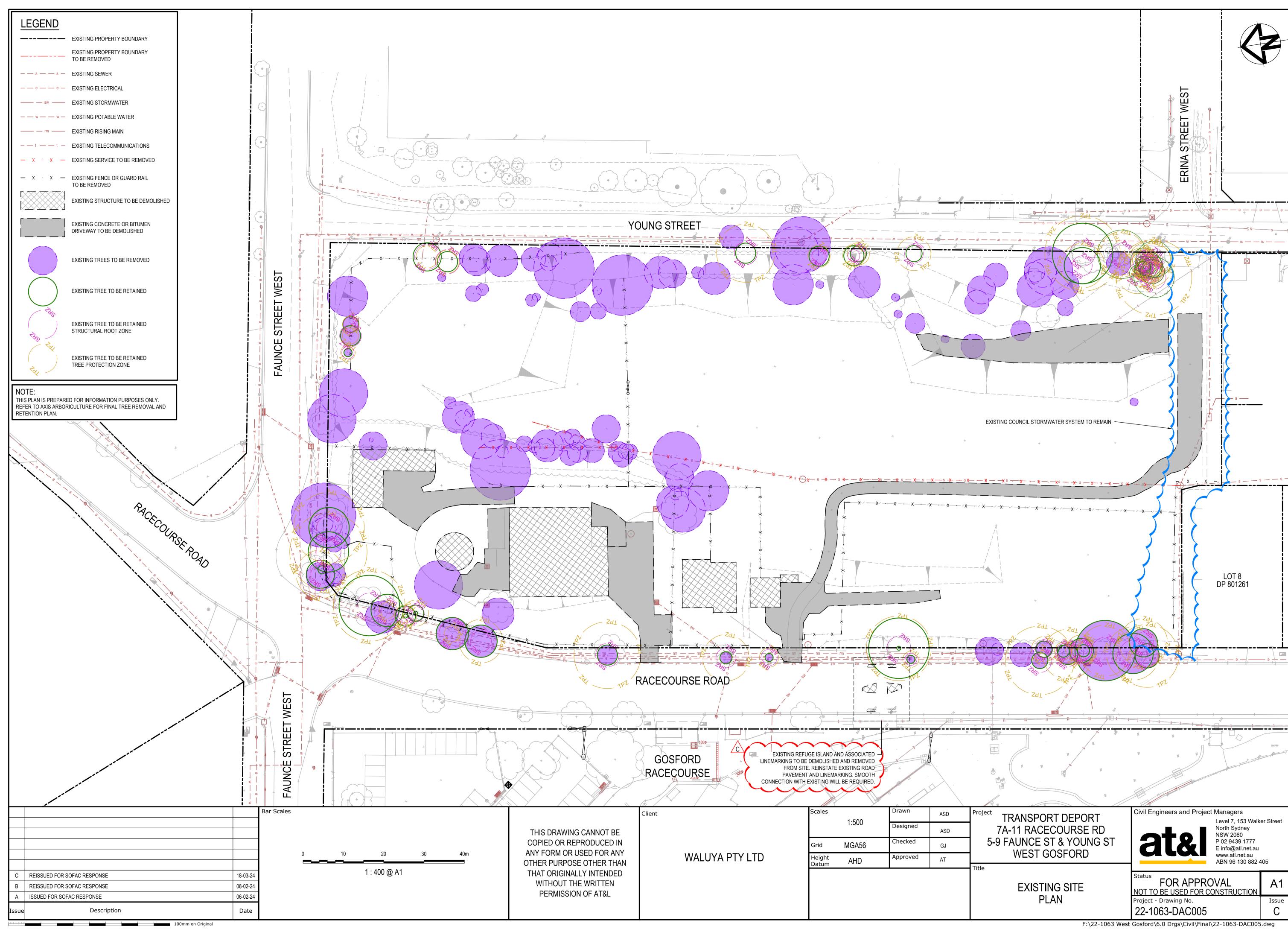
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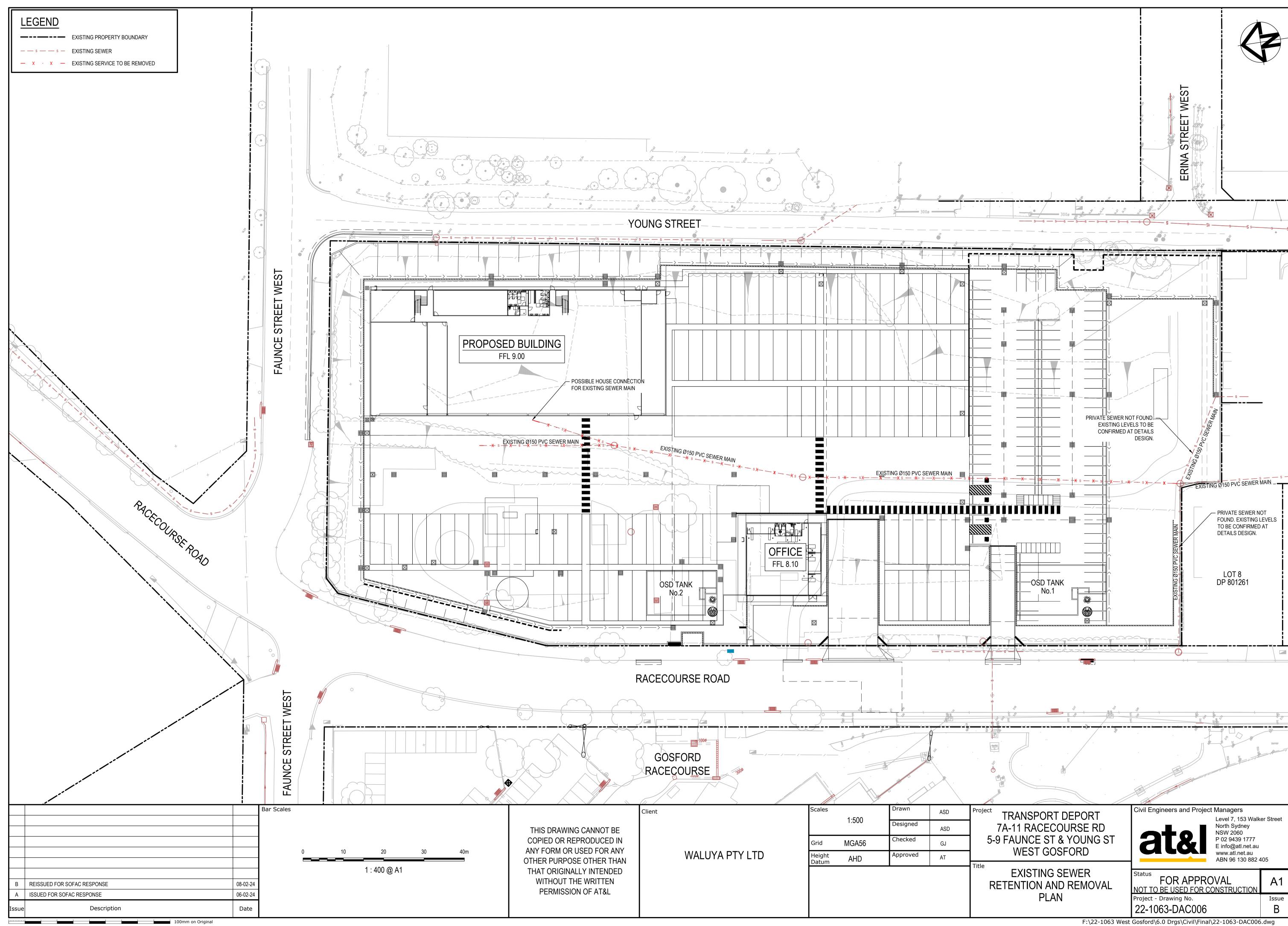
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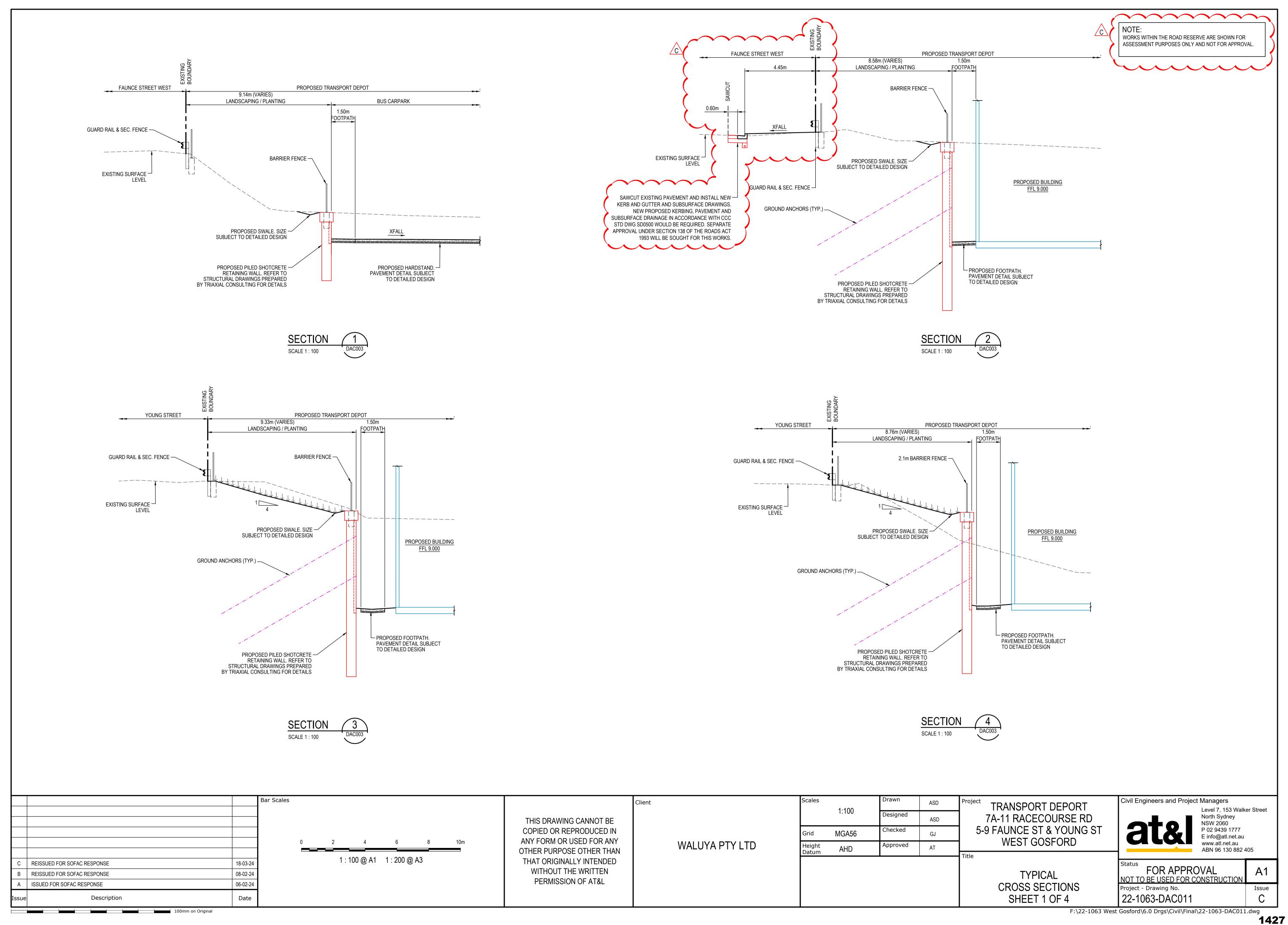
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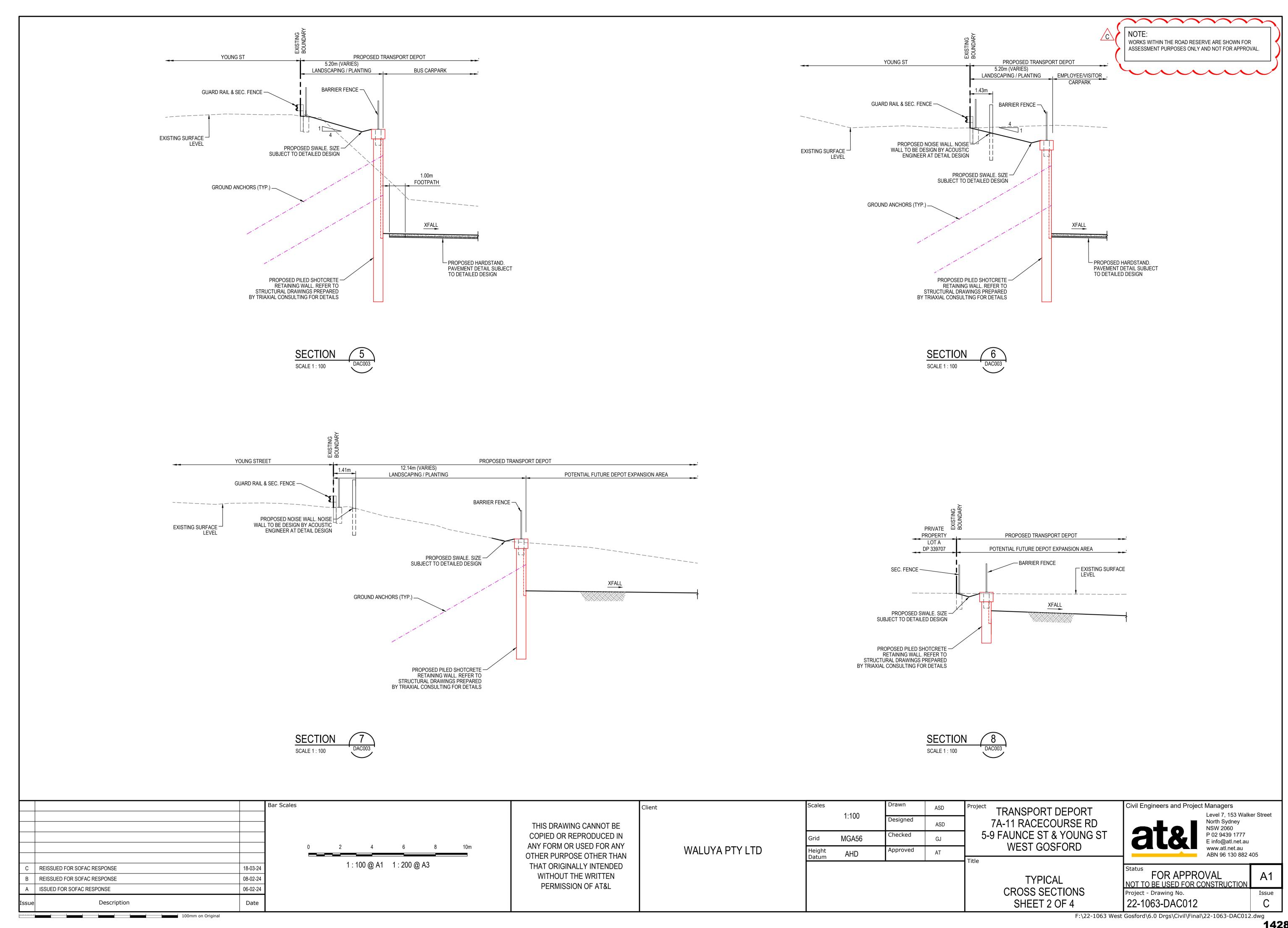
NSW 2060



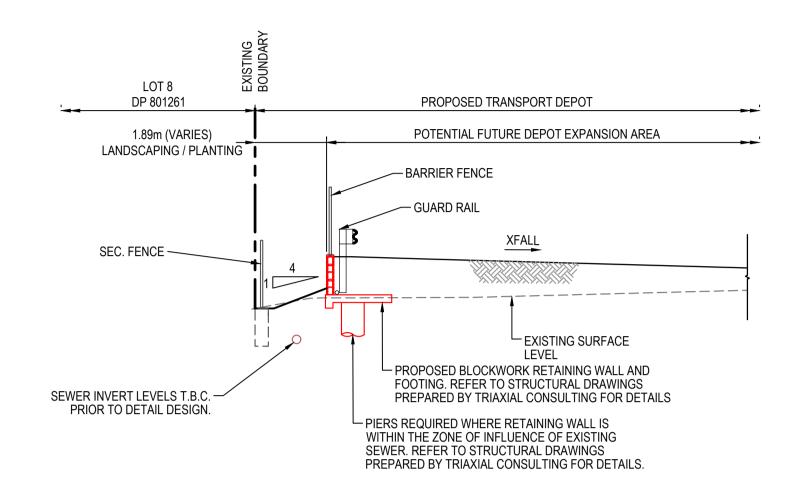




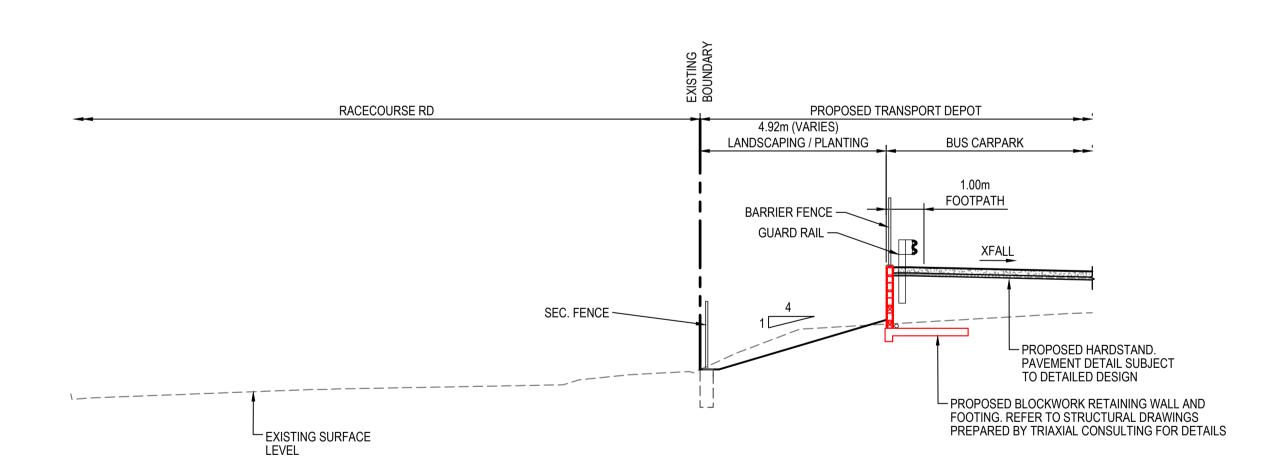




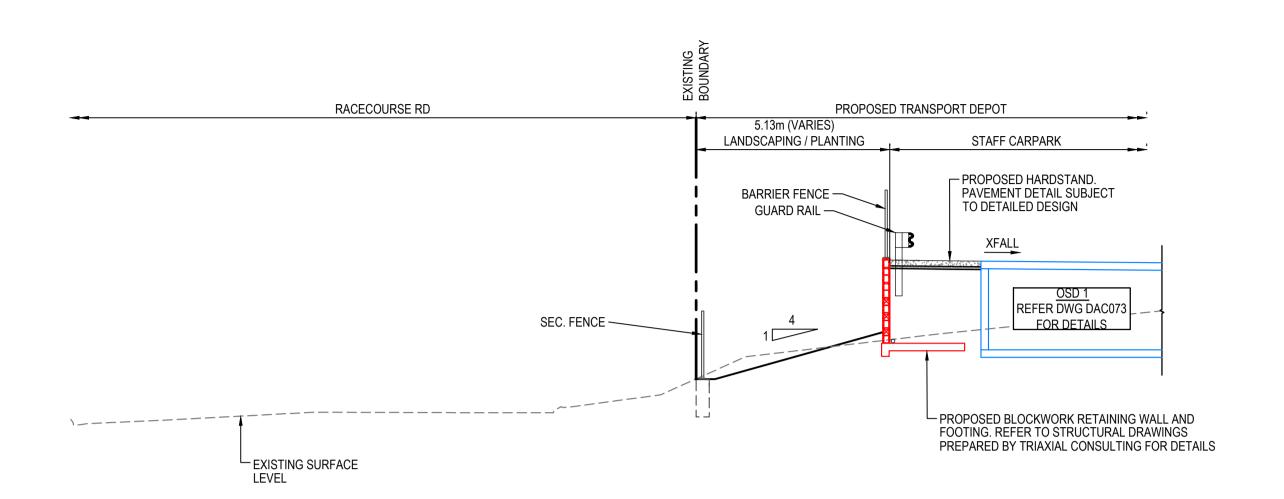
 $\sim\sim\sim\sim\sim$ NOTE: WORKS WITHIN THE ROAD RESERVE ARE SHOWN FOR ASSESSMENT PURPOSES ONLY AND NOT FOR APPROVAL.



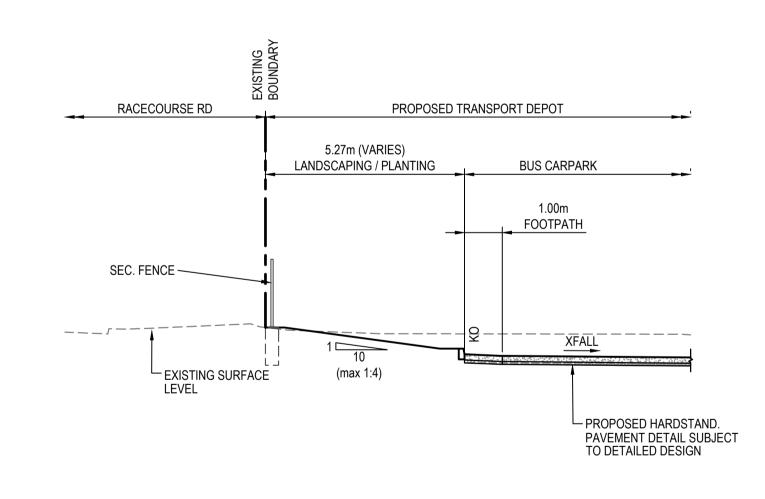








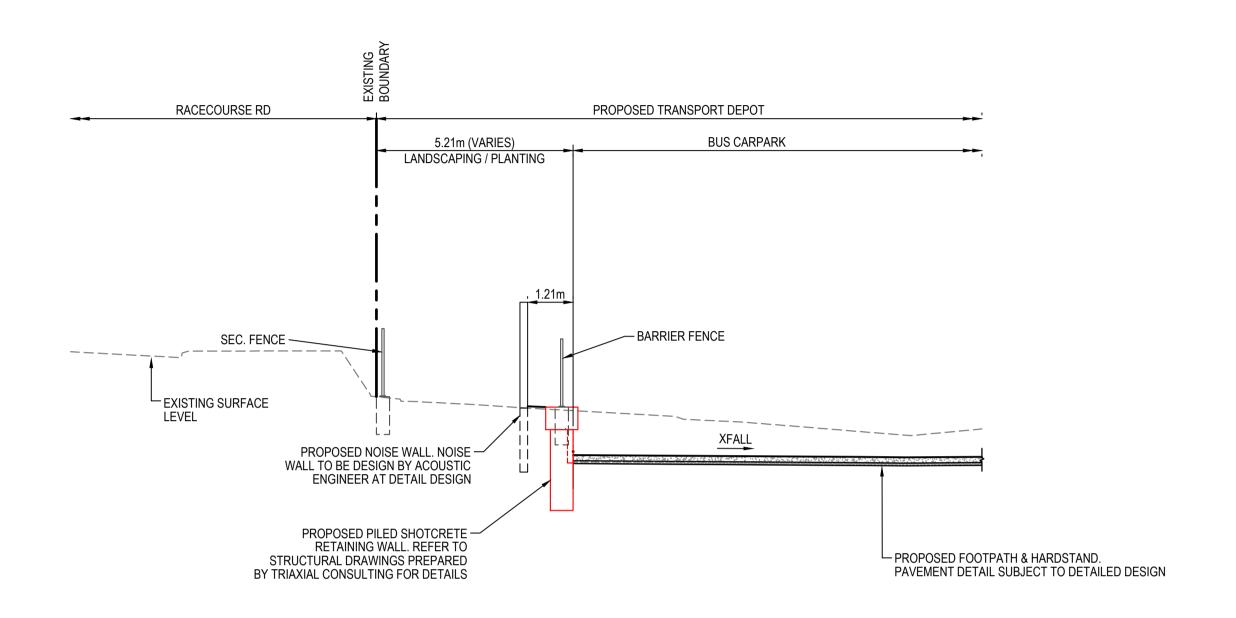




SECTION	(12)
SCALE 1:100	DAC003

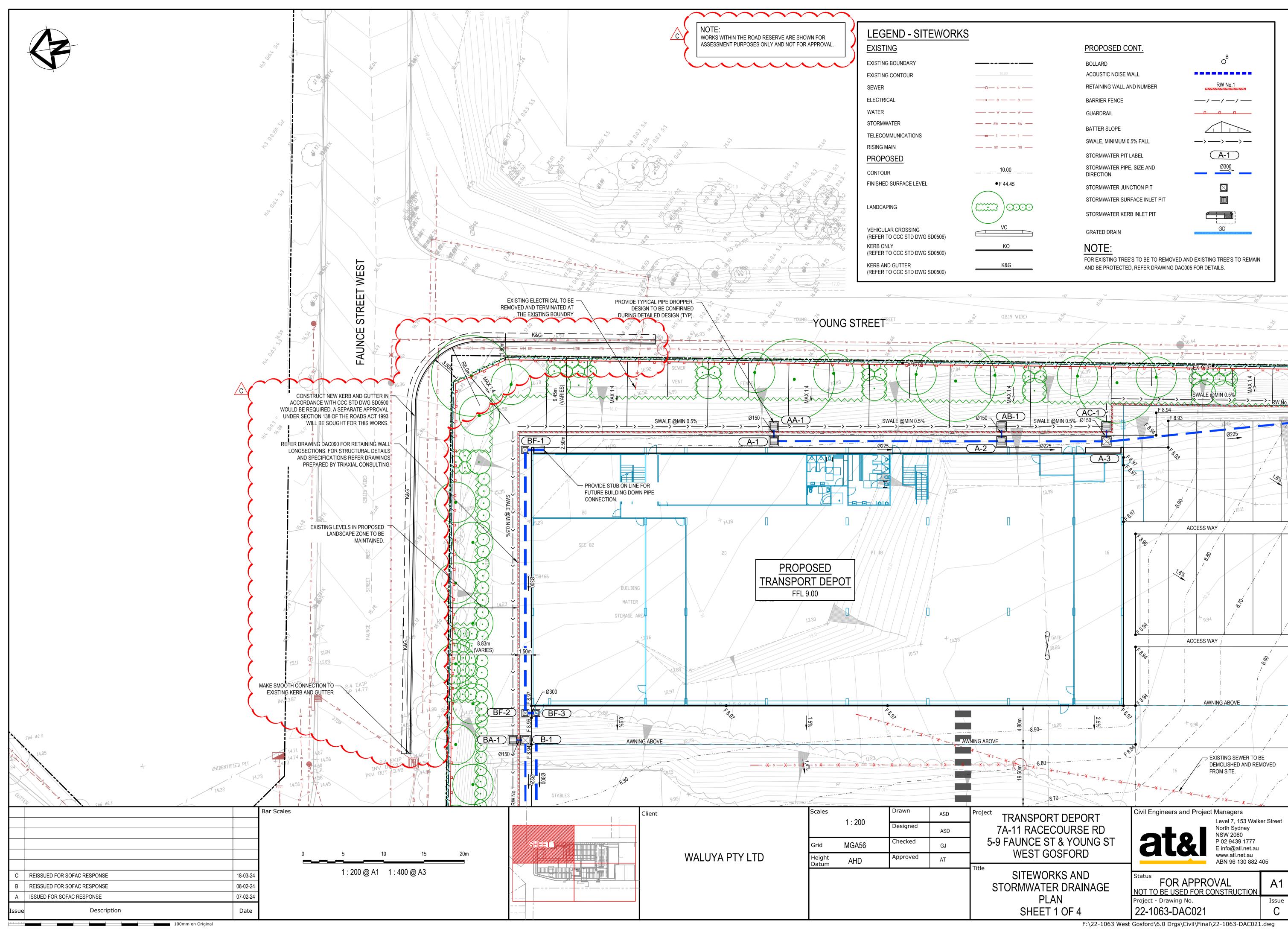
		Bar Scales	0 2 4 6 8 10m	THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN	Client	WALUYA PTY LTD	Scales Grid Height Datum	1:100 MGA56 AHD	Drawn Designed Checked Approved	ASD ASD GJ AT	TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD	Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405
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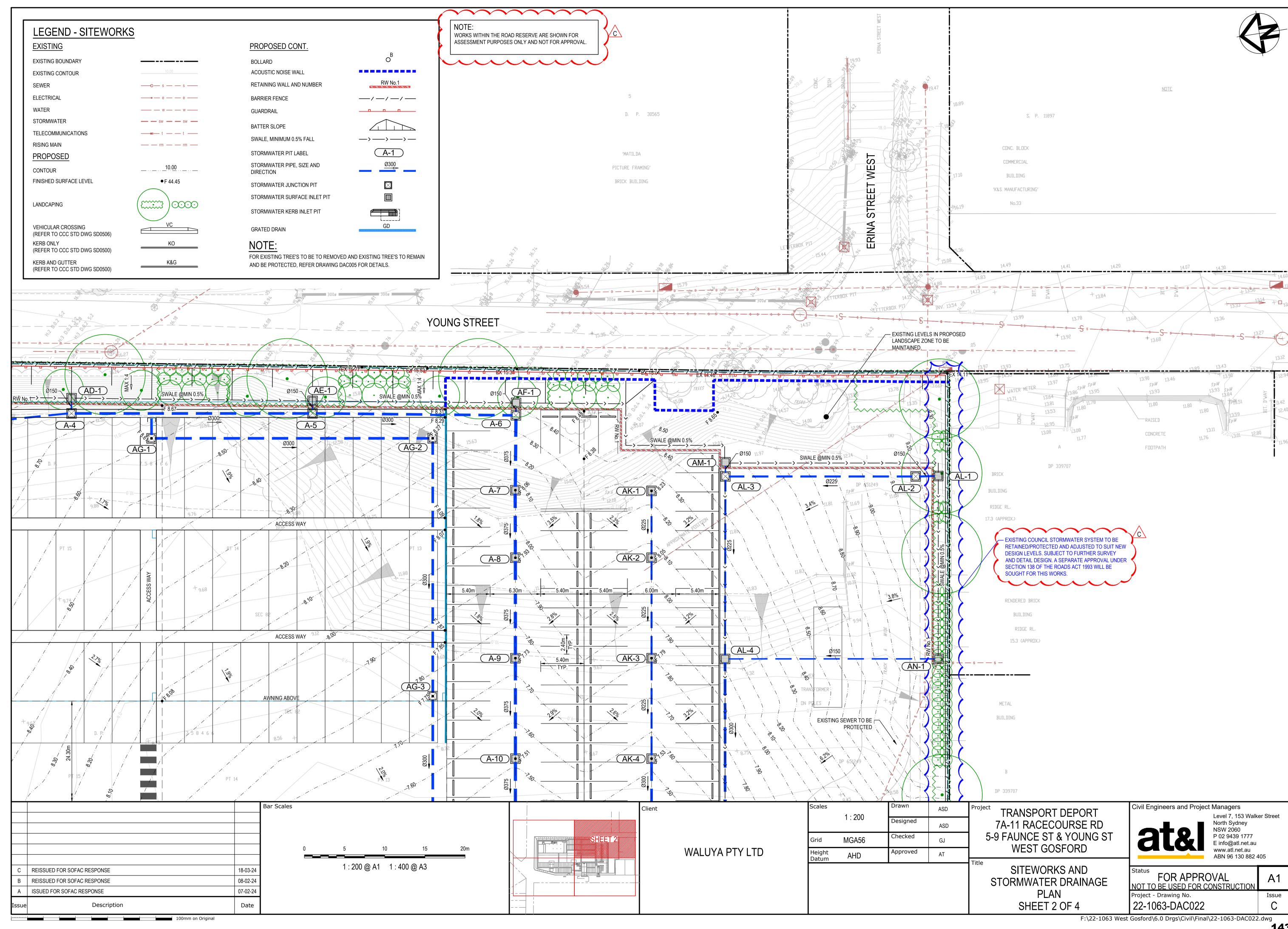
 $\sim\sim\sim\sim\sim$ WORKS WITHIN THE ROAD RESERVE ARE SHOWN FOR ASSESSMENT PURPOSES ONLY AND NOT FOR APPROVAL.

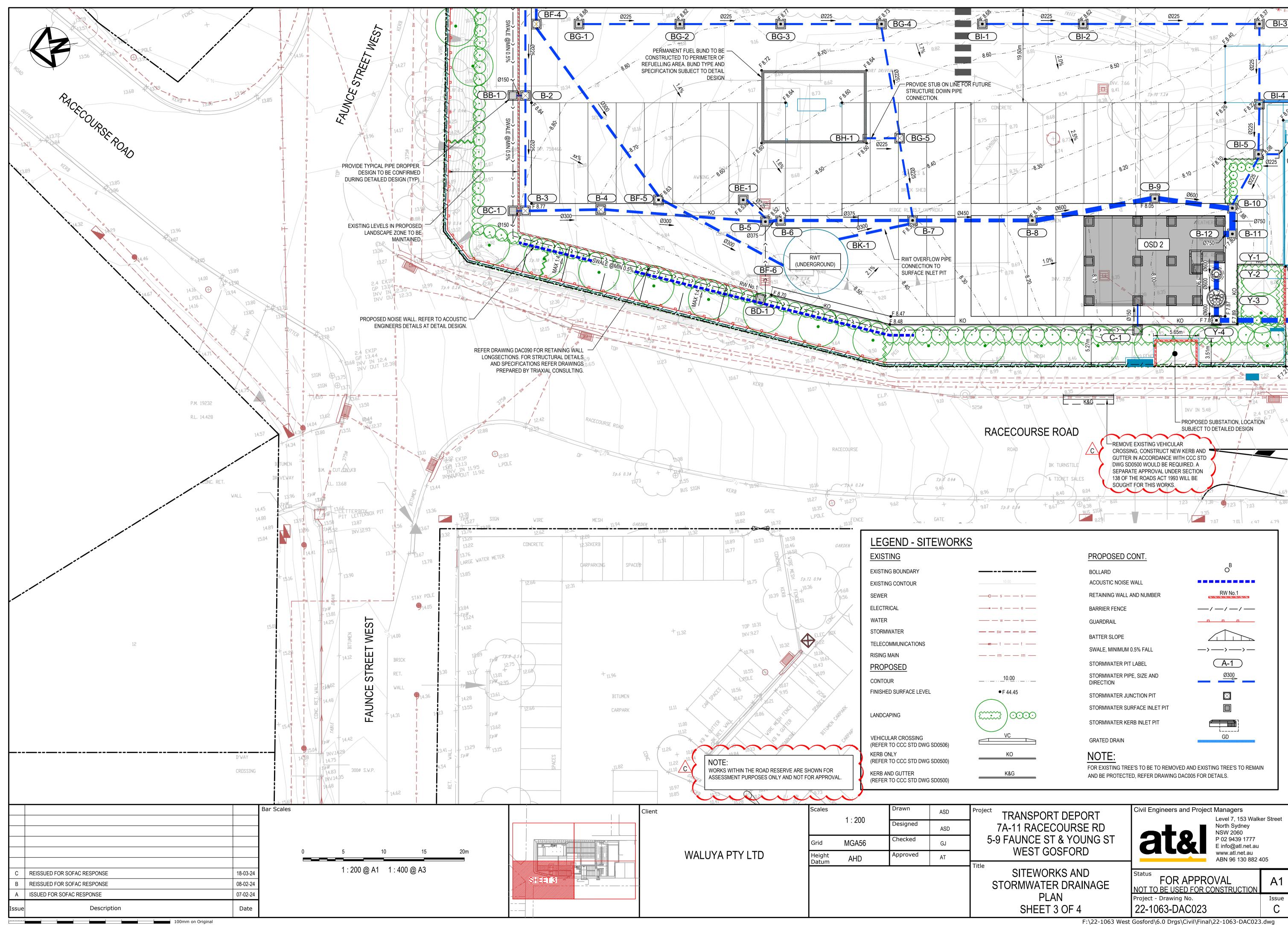


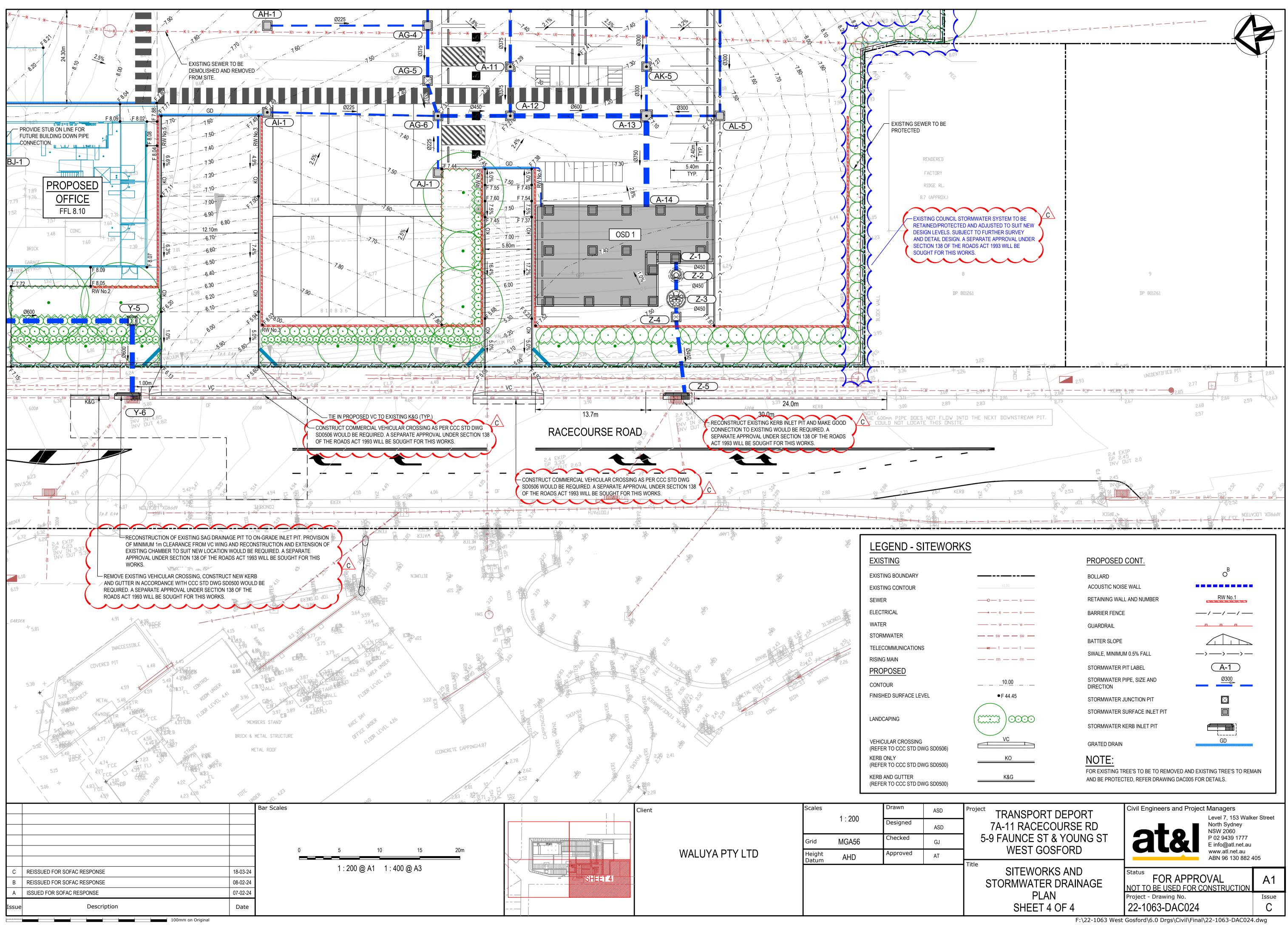
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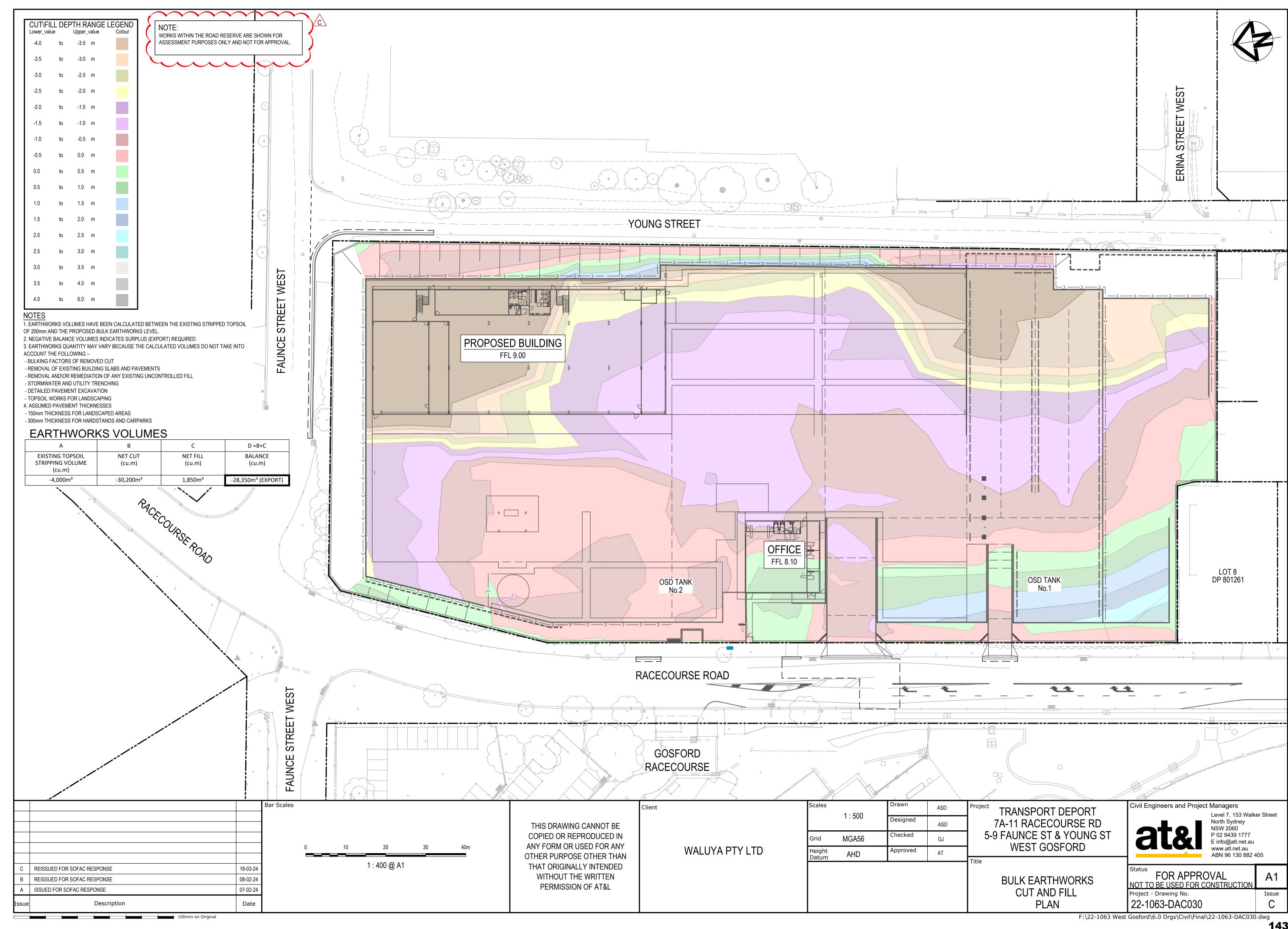
Bar Scales Civil Engineers and Project Managers Client JC TRANSPORT DEPORT 1:100 Level 7, 153 Walker Street North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405 Designed 7A-11 RACECOURSE RD THIS DRAWING CANNOT BE 5-9 FAUNCE ST & YOUNG ST COPIED OR REPRODUCED IN Checked MGA56 GJ ANY FORM OR USED FOR ANY WEST GOSFORD WALUYA PTY LTD ΑT AHD OTHER PURPOSE OTHER THAN 1:100 @ A1 1:200 @ A3 THAT ORIGINALLY INTENDED FOR APPROVAL WITHOUT THE WRITTEN **TYPICAL** NOT TO BE USED FOR CONSTRUCTION PERMISSION OF AT&L CROSS SECTIONS 10-08-23 A ISSUE FOR APPROVAL Project - Drawing No. Issue SHEET 3 OF 3 22-1063-DAC013 Date Description F:\22-1063 West Gosford\6.0 Drgs\Civil\Final\22-1063-DAC014.dwg

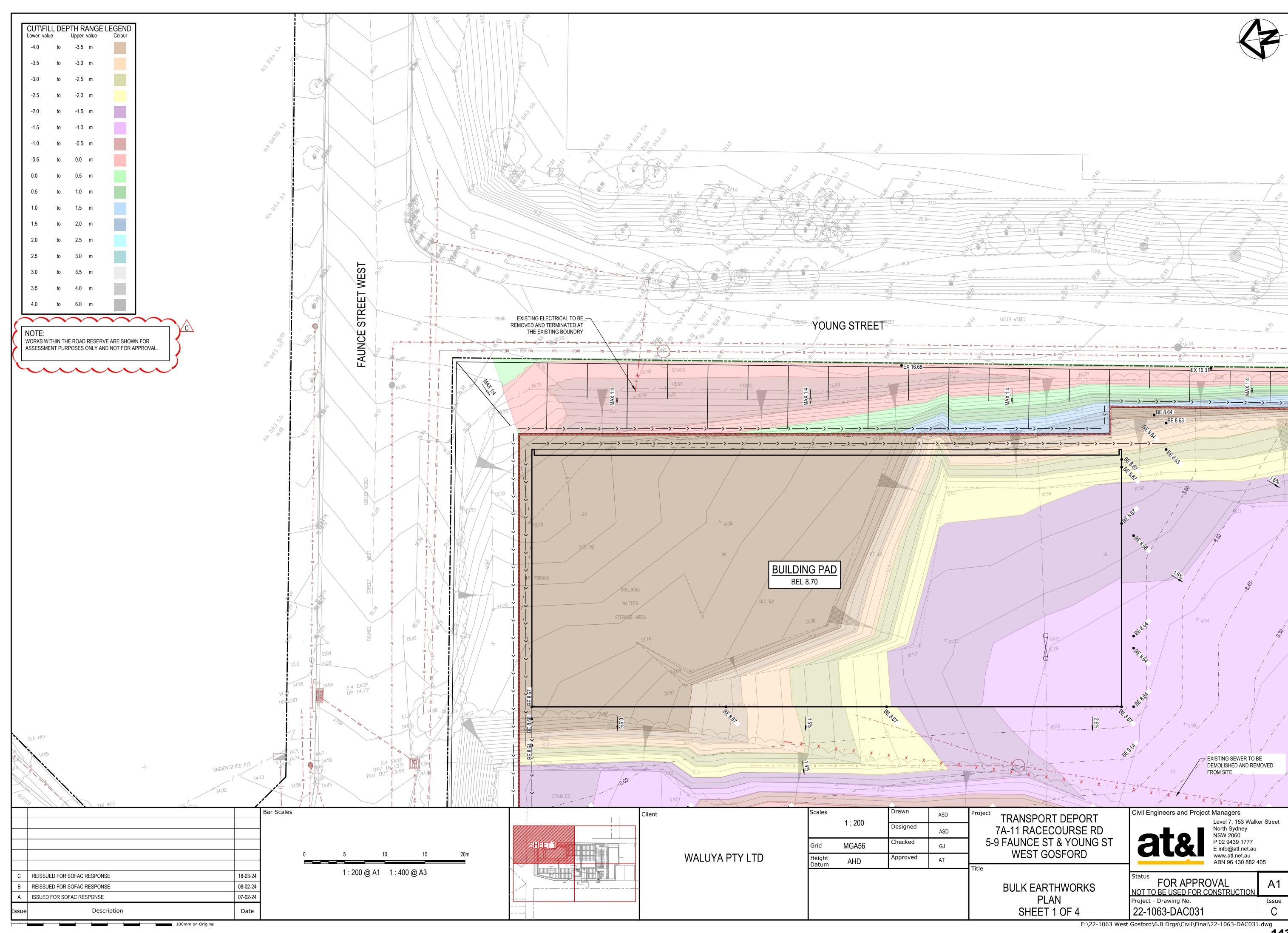


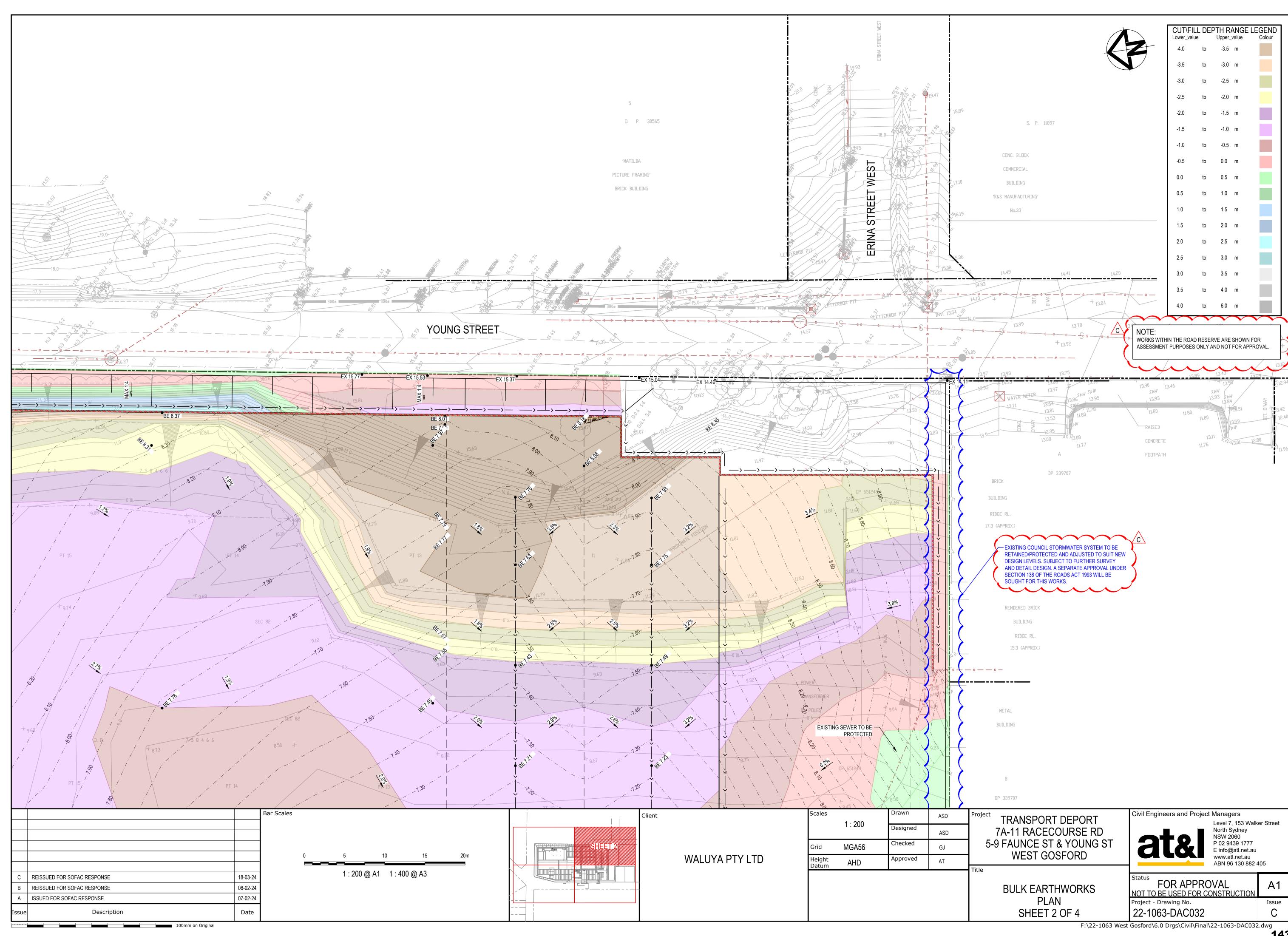


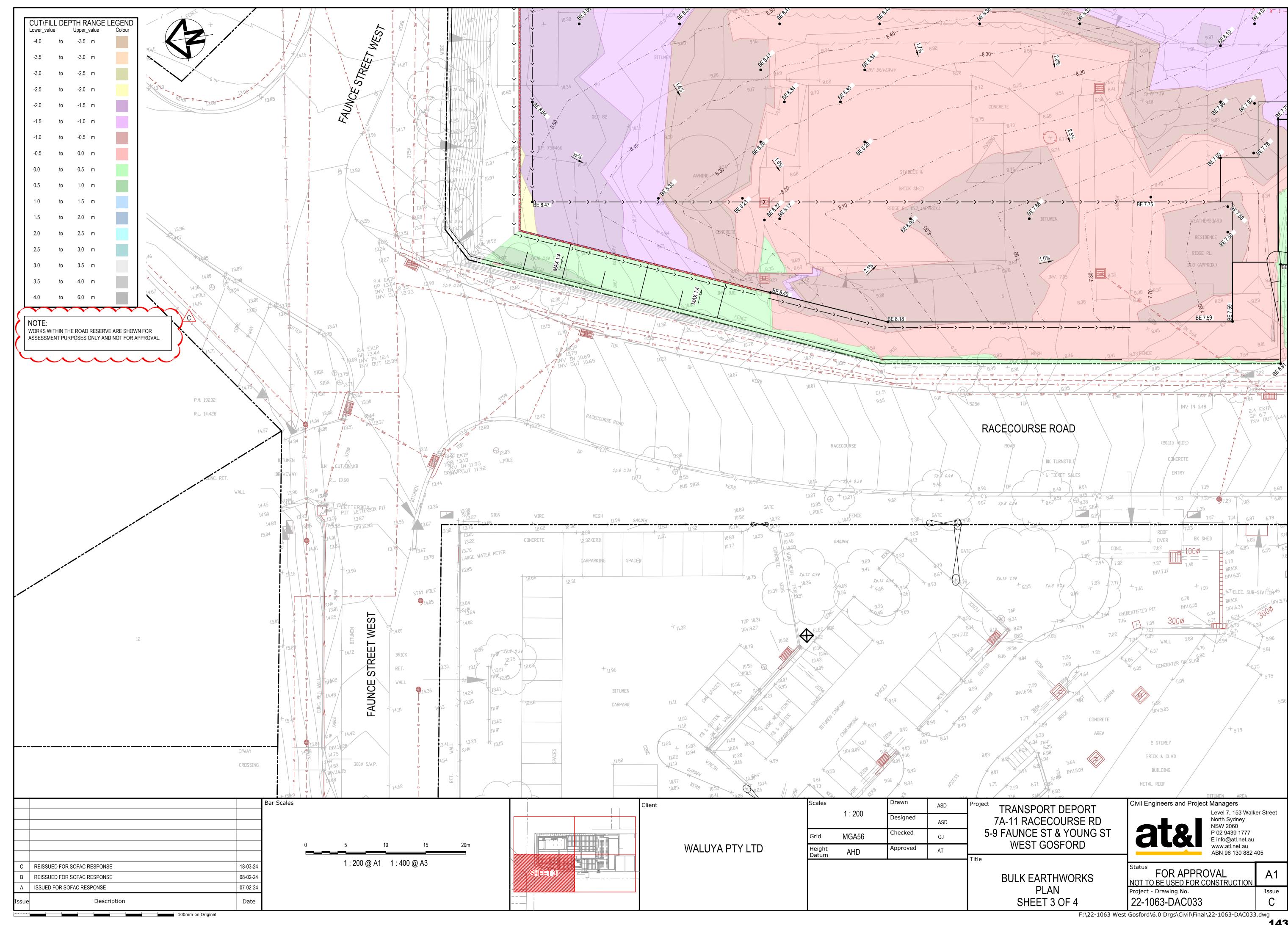


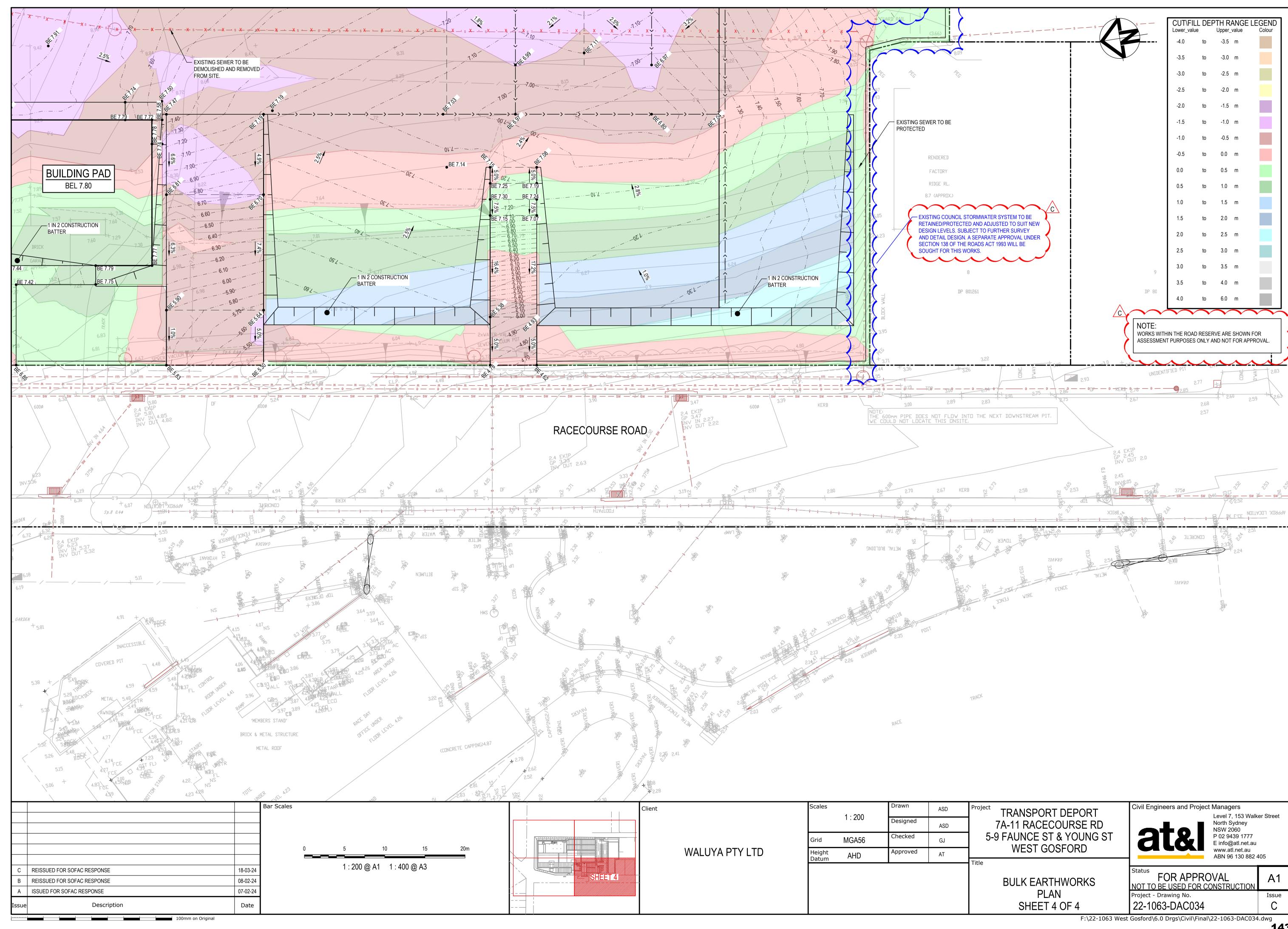


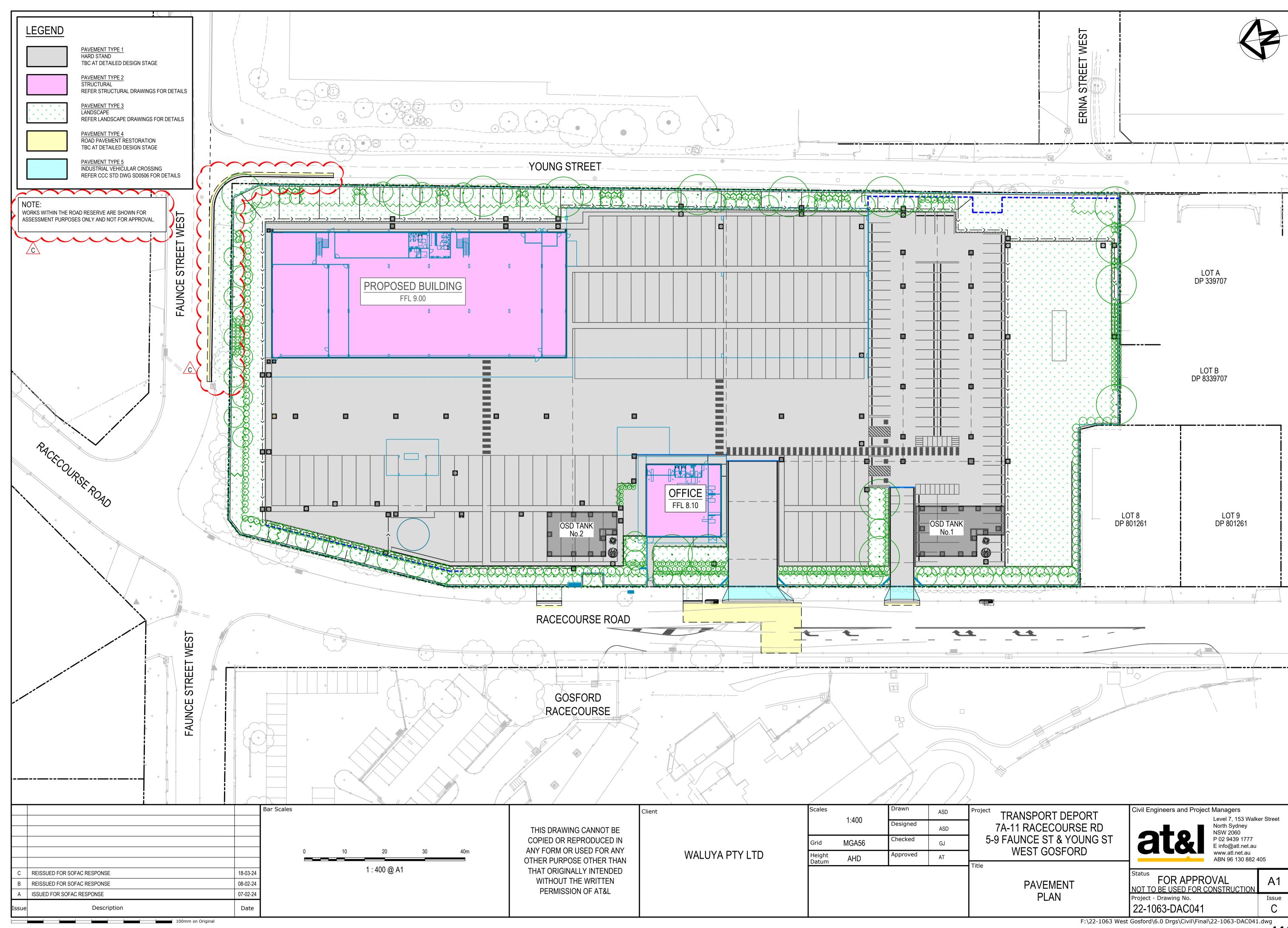


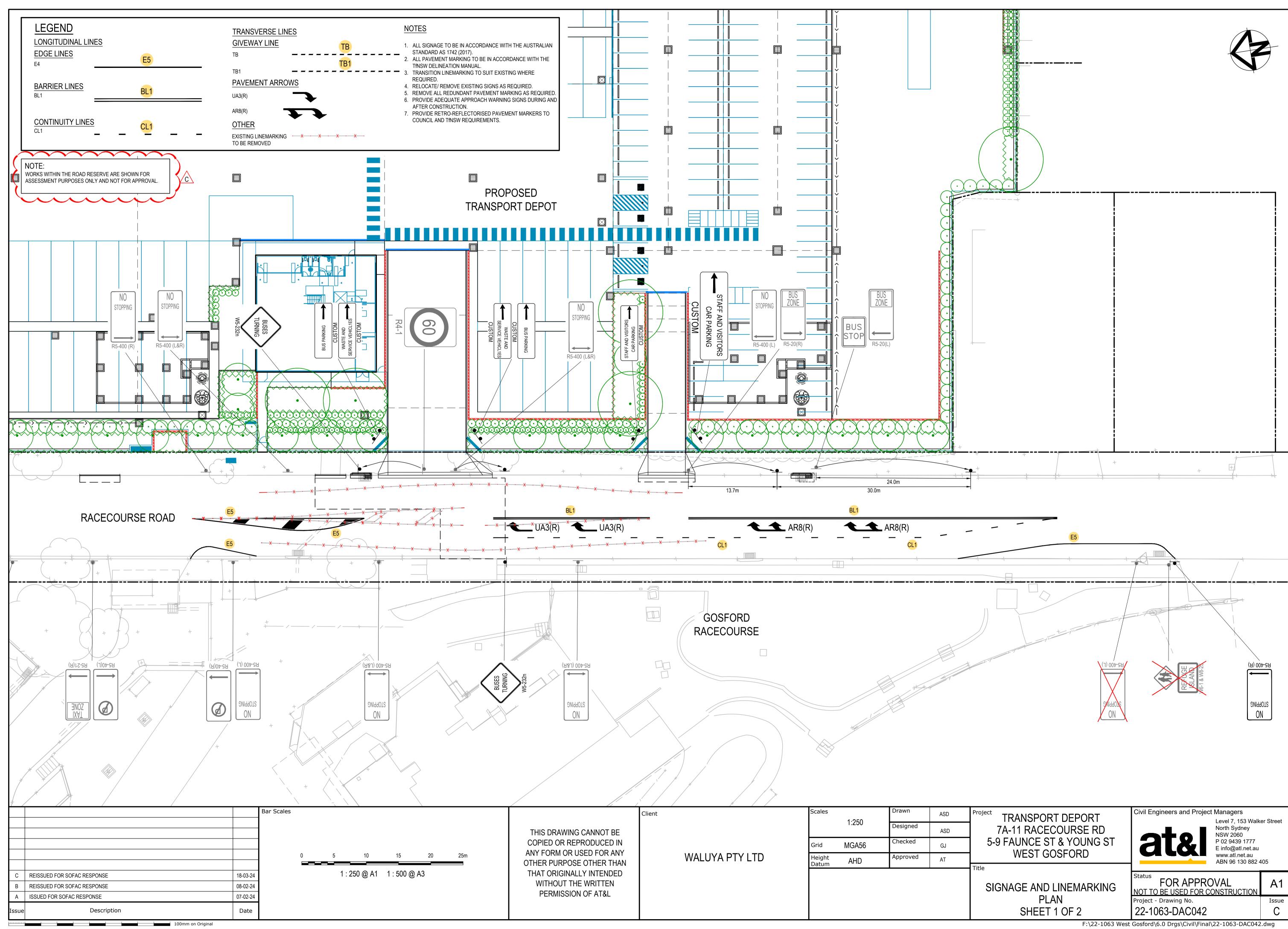


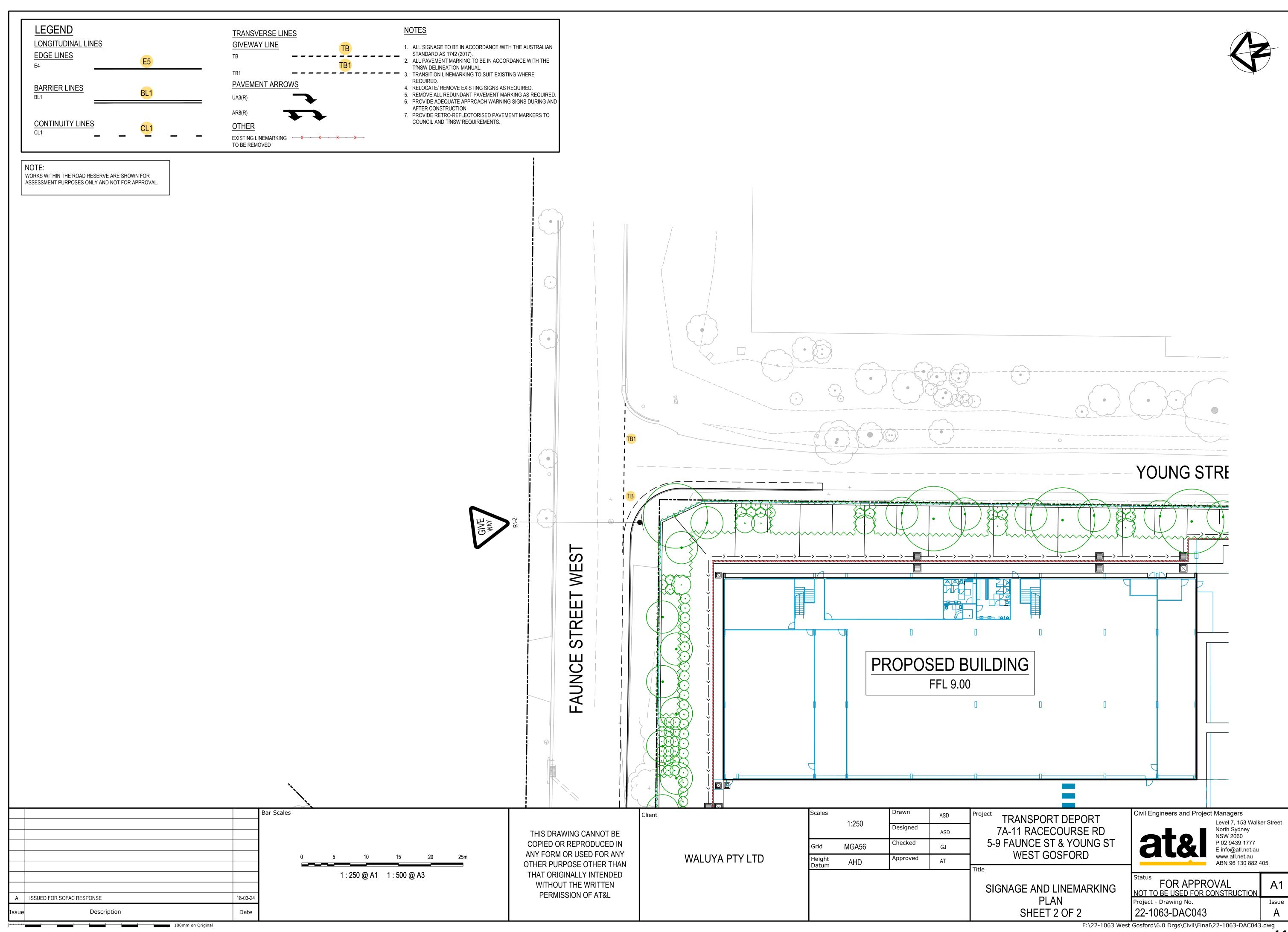


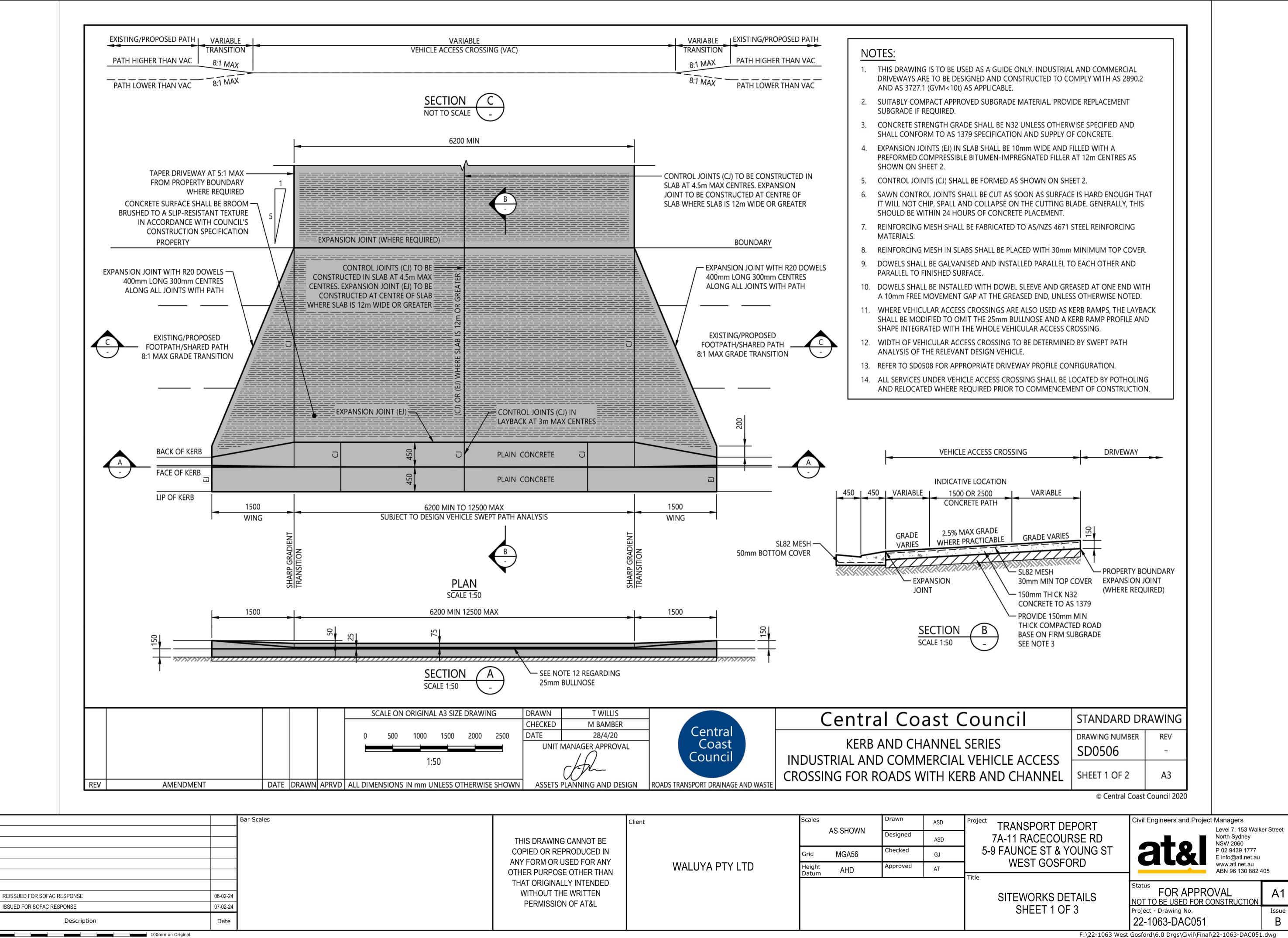


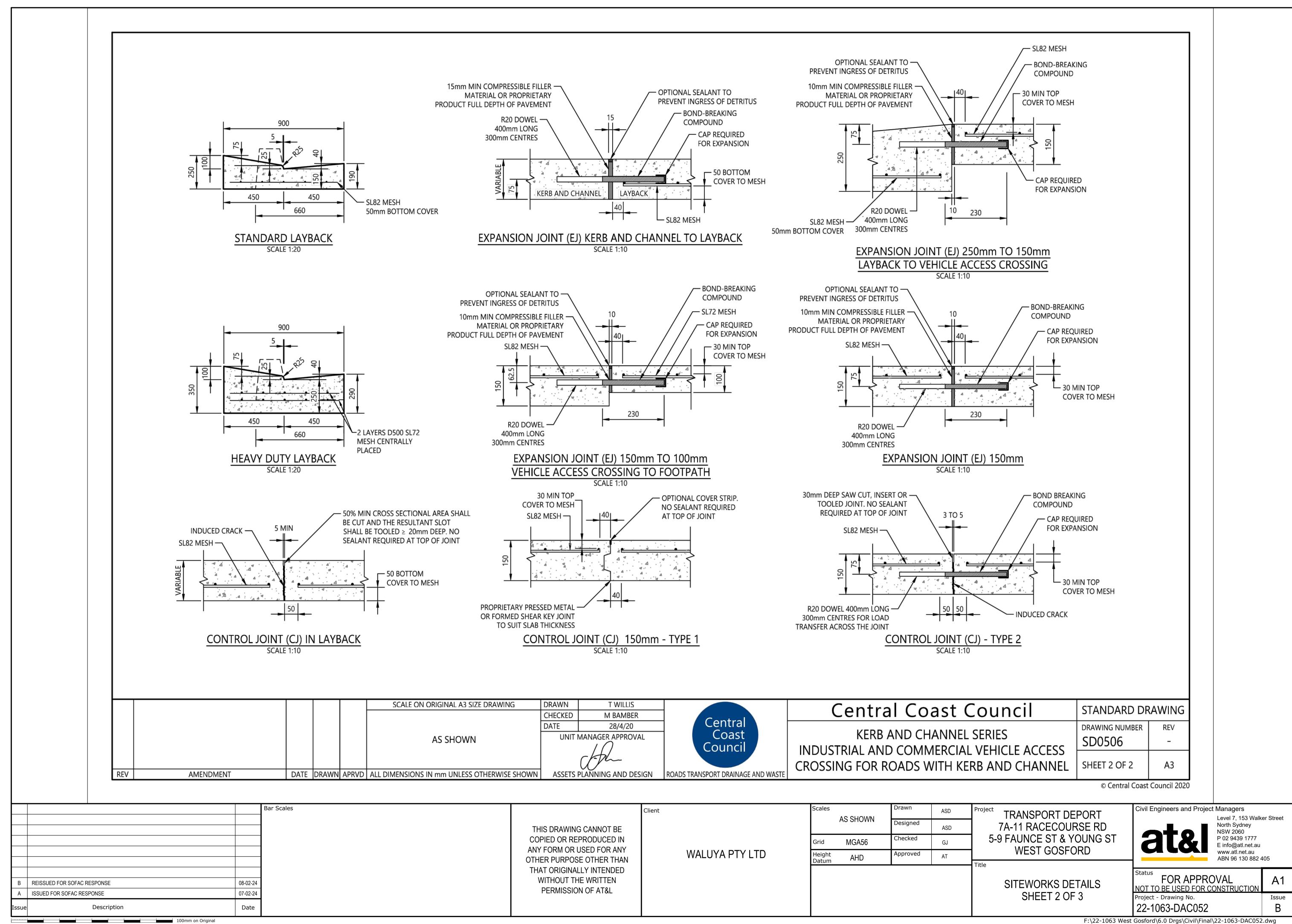


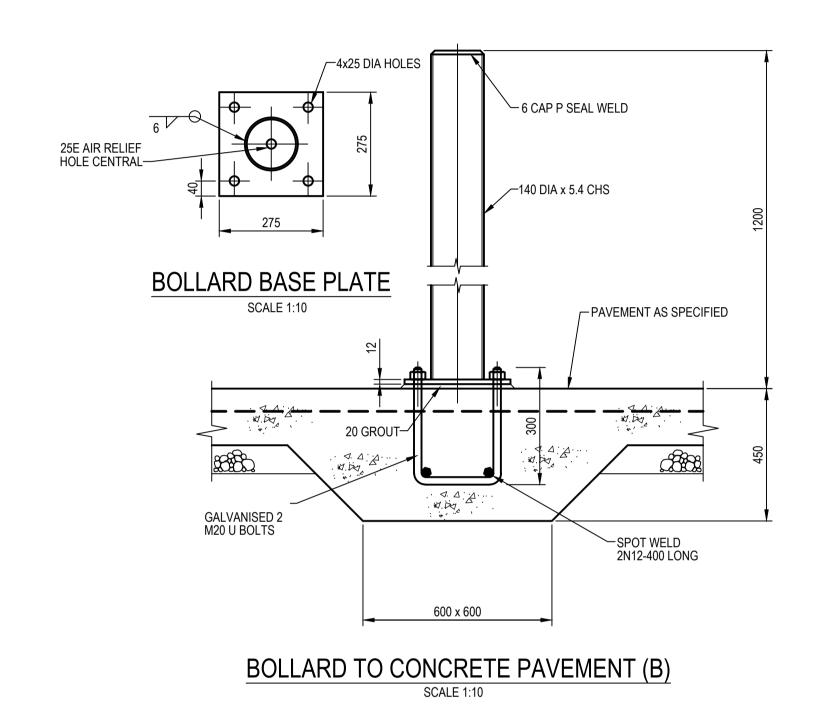


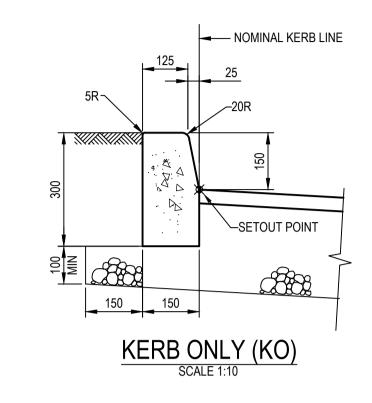


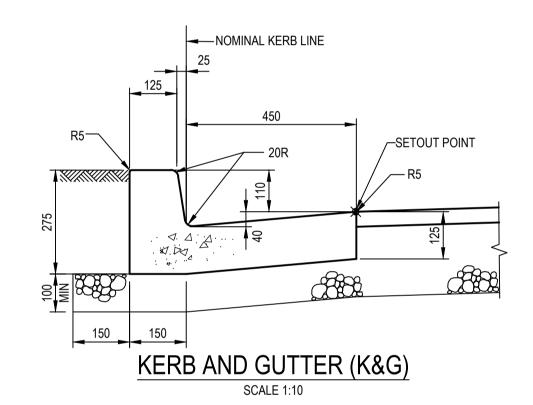












			Bar Scales						
				100	200	400	600	800	1000m
						1 - 10 @ 11	4 - 00 @	A 2	
						1 : 10 @ A1	1:20@	A3	
В	REISSUED FOR SOFAC RESPONSE	08-02-24							
Α	ISSUED FOR SOFAC RESPONSE	07-02-24							
Issue	Description	Date							

100mm on Original

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

Client

AS SHOWN Designed ASD Checked MGA56 GJ WALUYA PTY LTD Approved AHD ΑT

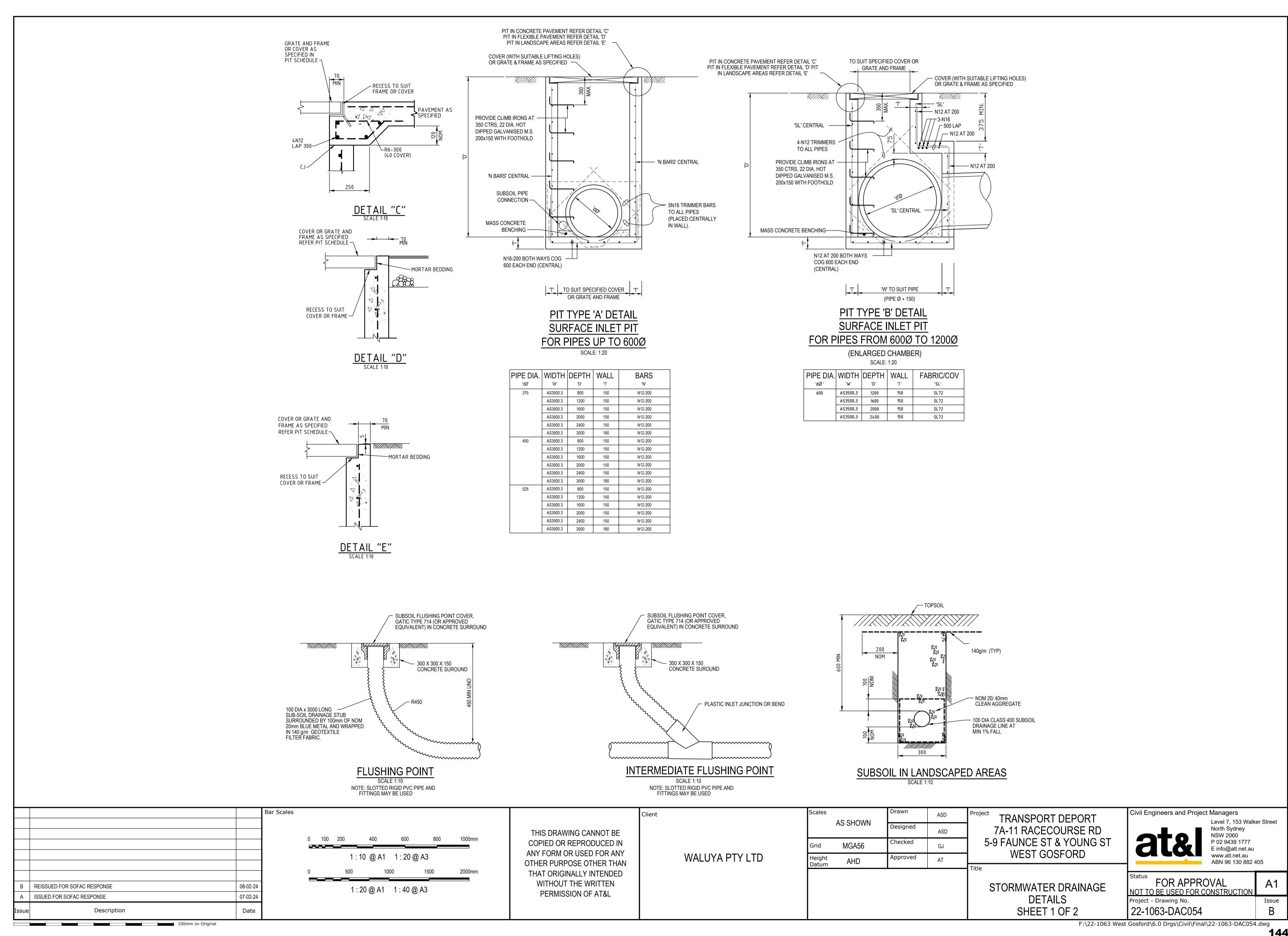
ASD

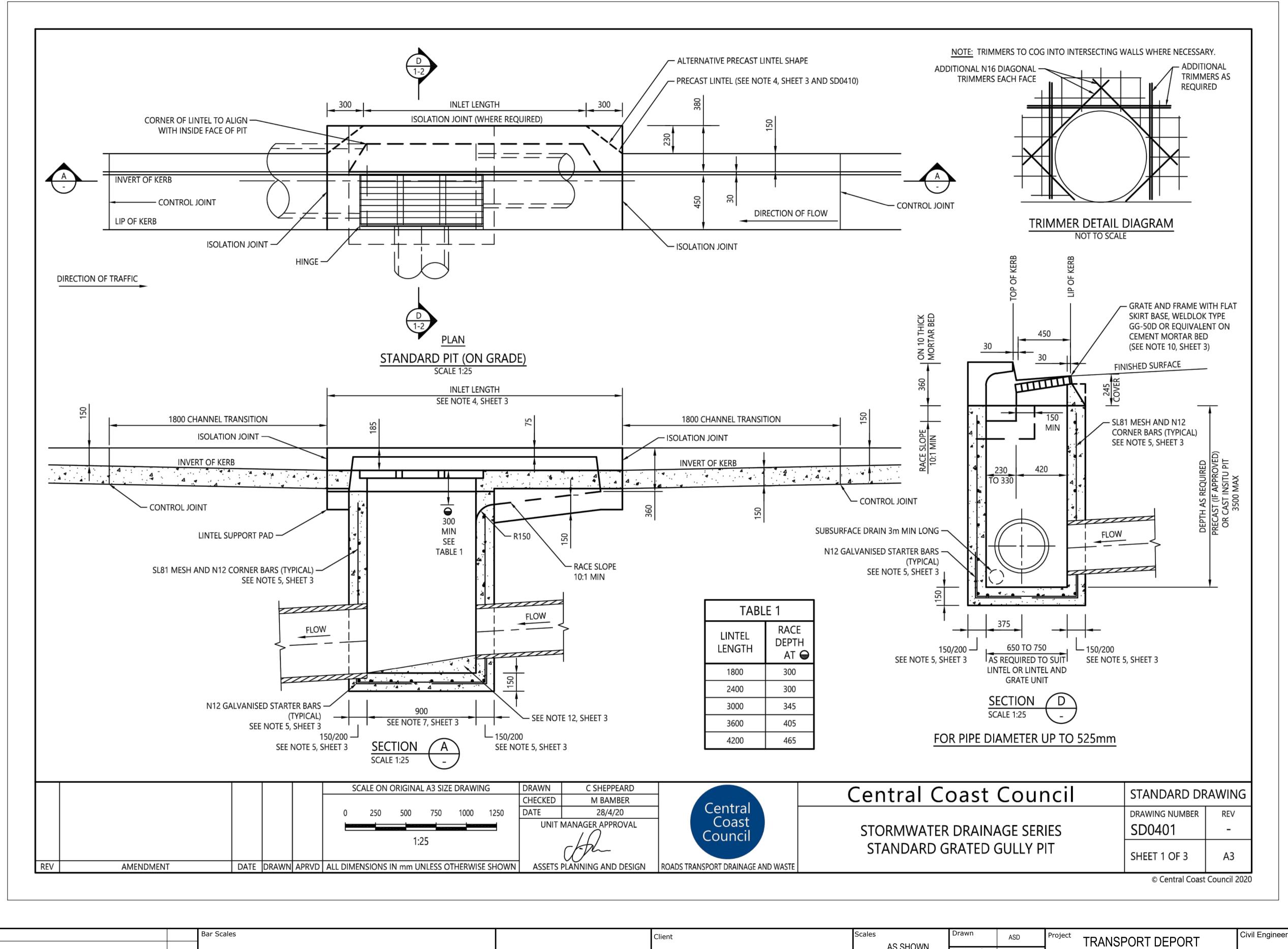
TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD

SITEWORKS DETAILS

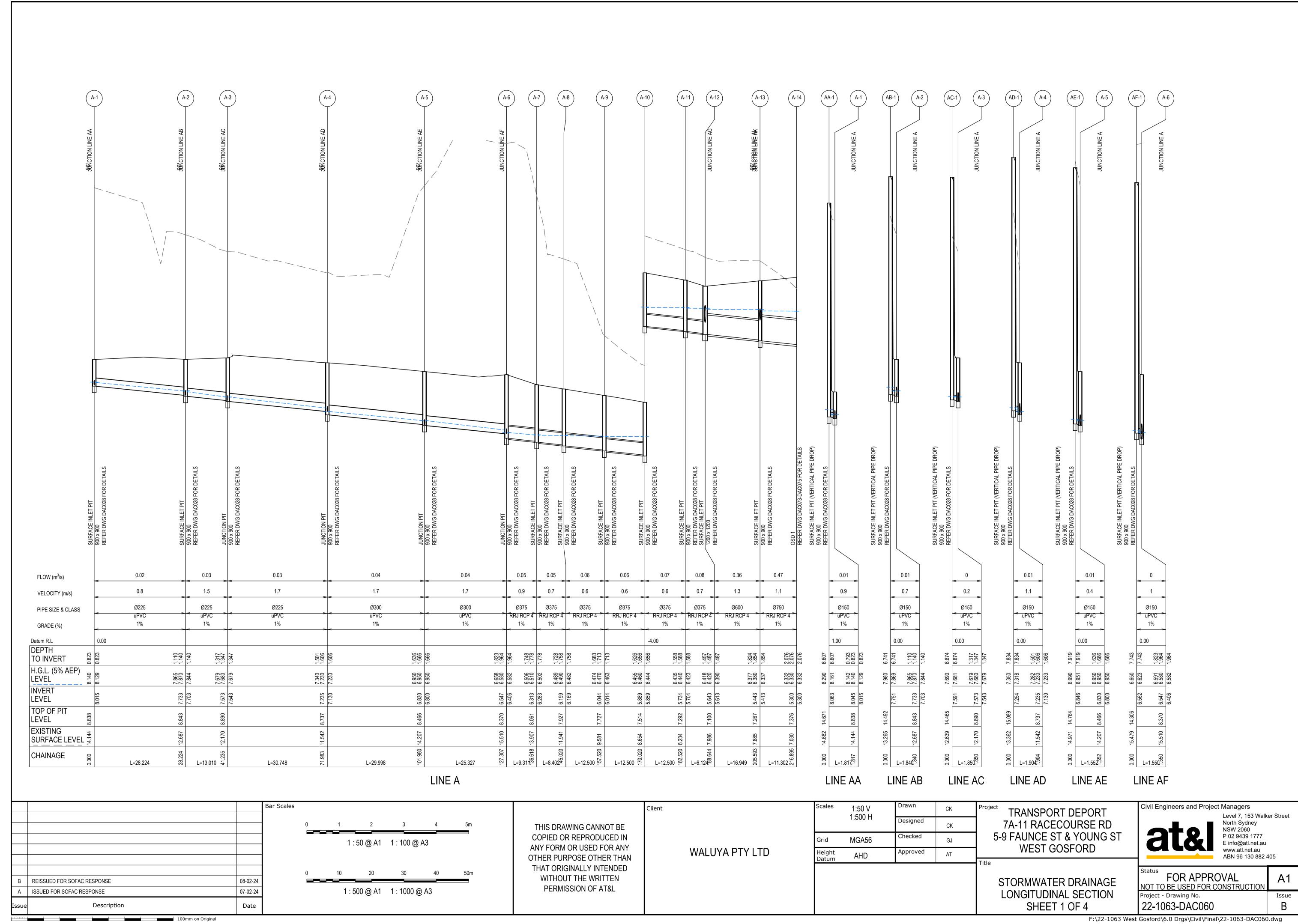
Civil Engineers and Project Managers Level 7, 153 Walker Street Level /, 153 Walk
North Sydney
NSW 2060
P 02 9439 1777
E info@atl.net.au
www.atl.net.au
ABN 96 130 882 405

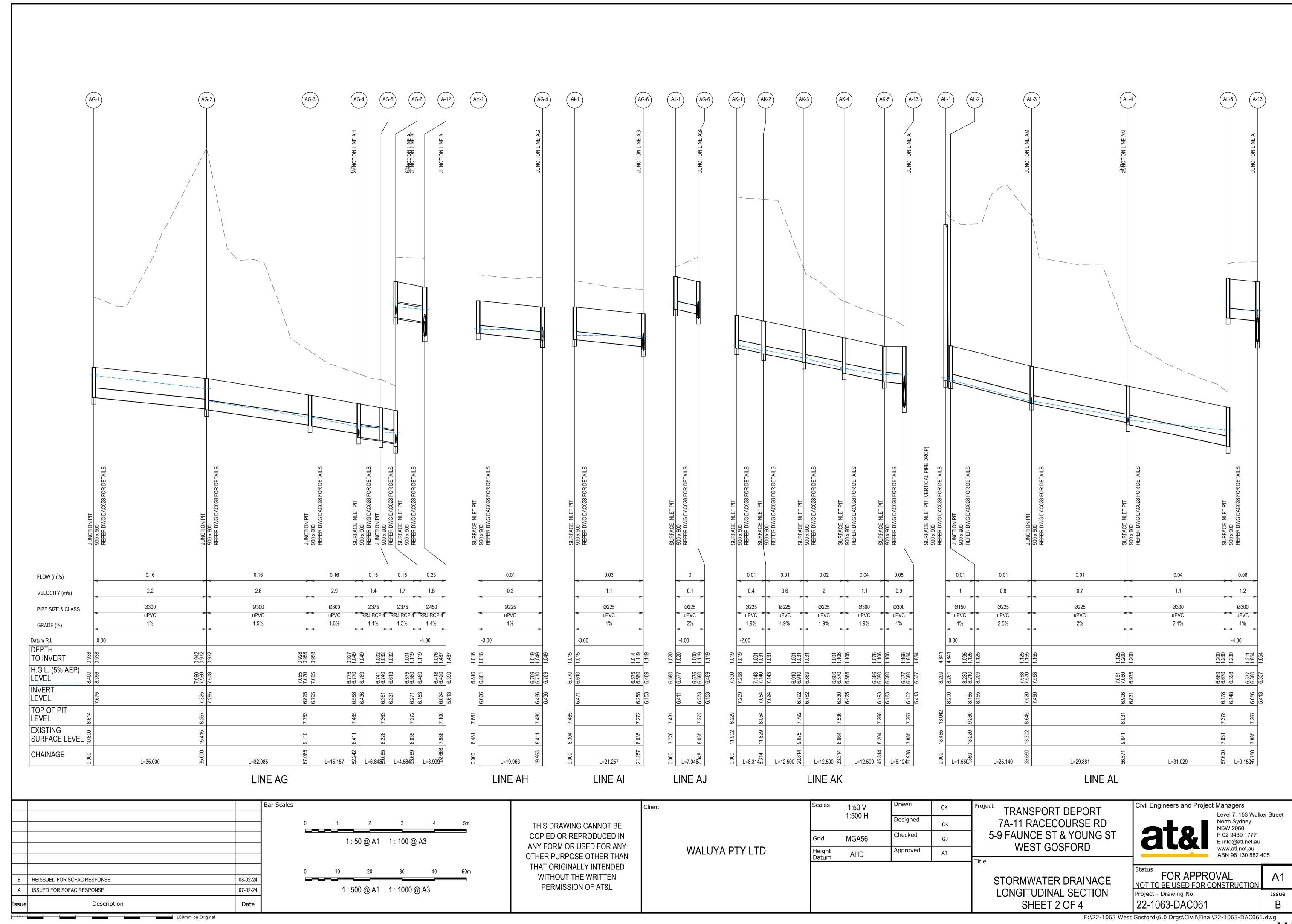
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION **A**1 Project - Drawing No. Issue

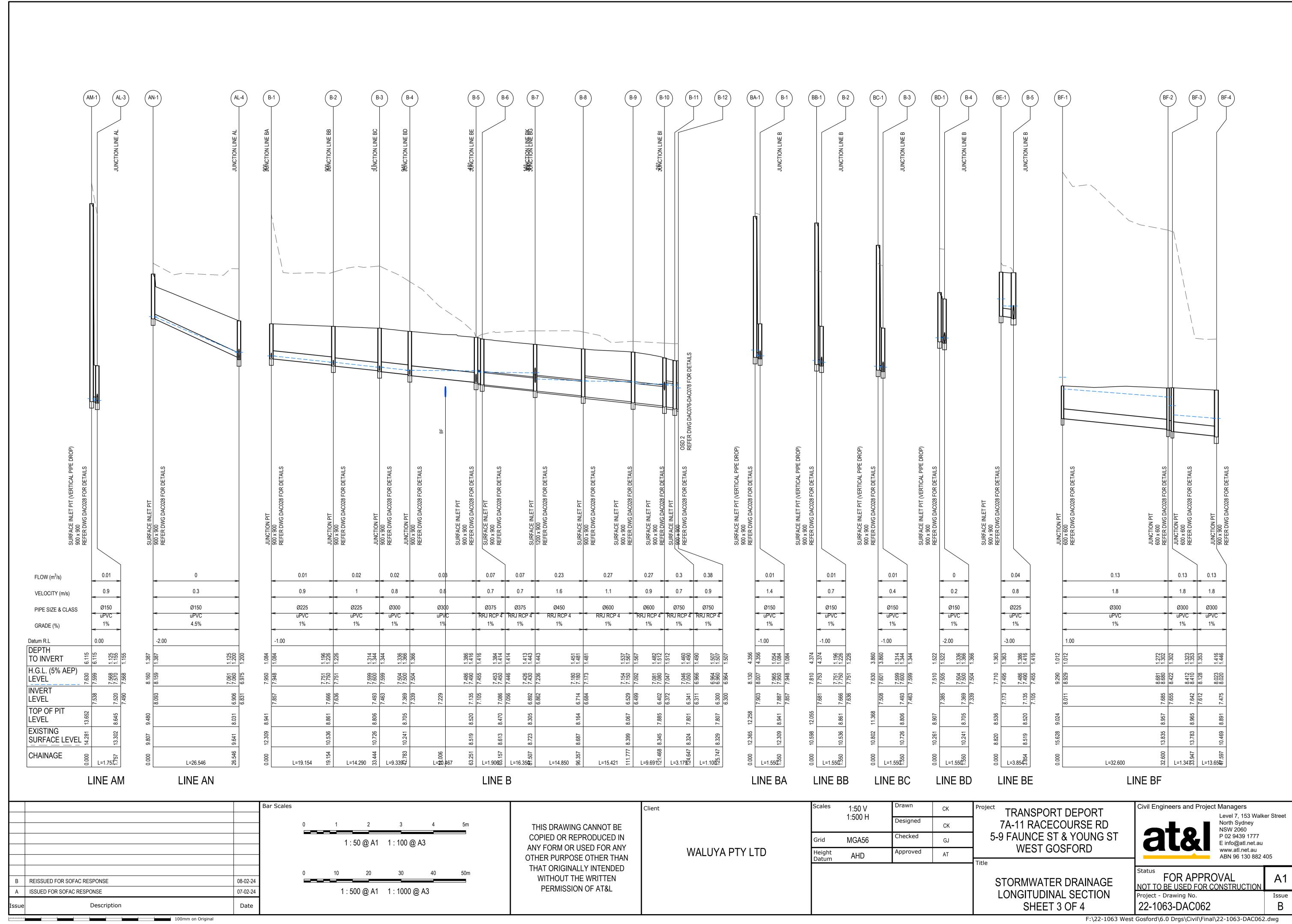


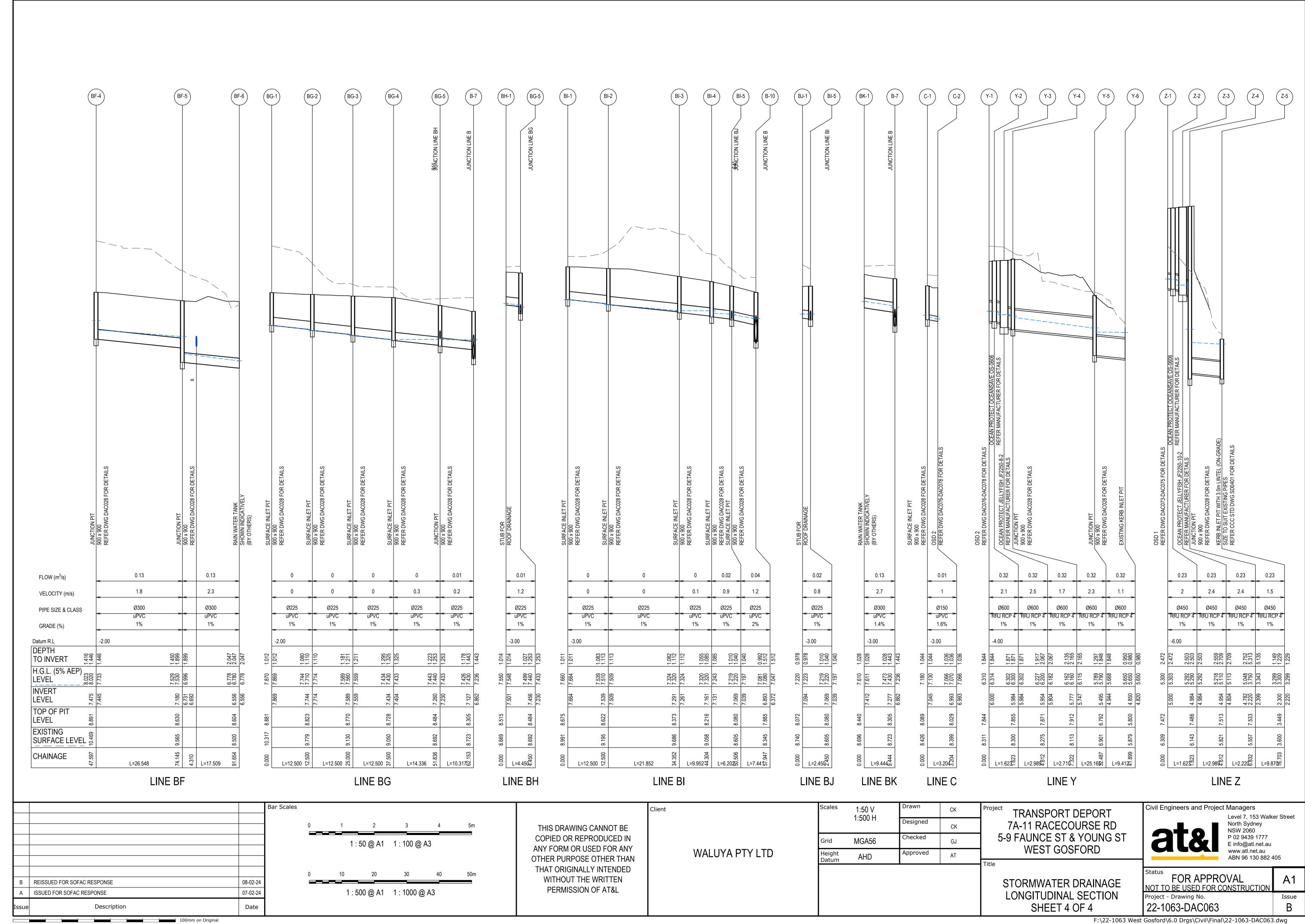


		Bar Scales		Client	Scales	Drawn	ASD	Project TRANSPORT DEPORT	Civil Engineers and Project Manage	ers 153 Walker Stre
			THIS DRAWING CANNOT BE		AS SHOWN	Designed	ASD	7A-11 RACECOURSE RD	North Sy NSW 206	/dney
			COPIED OR REPRODUCED IN		Grid MGA56	Checked	GJ	5-9 FAUNCE ST & YOUNG ST	P 02 943	39 1777 atl.net.au
			ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN	WALUYA PTY LTD	Height AHD	Approved	AT	WEST GOSFORD	www.atl.	
DEIOQUED FOR OO		00.00.04	THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN			-			Status FOR APPROVAL	
REISSUED FOR SOI		08-02-24	PERMISSION OF AT&L					STORMWATER DRAINAGE	NOT TO BE USED FOR CONSTRU	JCTION
ie	Description	Date						DETAILS SHEET 2 OF 2	Project - Drawing No. 22-1063-DAC055	Issu B









	T'	T	ı		ĺ		1					Г		I			1											
ILSAX CAL	CULATIO	ON SUM	MARY SHE	ET																								
DRAINS resu	Its prepared	d from Vers	sion 2023.11.	8726.15750)		Entire Catchmer	at Avec																				
Soil Type	Us	ser to enter	r			-	Paved 1.827 ha	(40.9%)																				
AMC	Us	ser to enter	r				lementary 0 ha Grassed 2.637 ha																					
							Fotal Area 4.464 ha																					
LOCATION A	AND LAND-	-USE			TIME AND	RUNOFF			INLET DESIGN						PIP	E SYSTEM	/I DESIGN	l		500			2	RESULTS				
	it, Node	3 Sub-	4 Land-		6 Constant		8 9 ic Wave or Friends			14 flows Approa		16	17	18 Peak	19 P	20 Peak	21	22 23	U/S Pipe	D/S Pipe	26 U/S		Pipe Pre		29b QUDM	30 31 Water Ground		33 34
	r Basin C Name	Area	Туре	Percent- age	Flow Time	Length	ula Parameters Slope Roughnes	Time, t _c		e(s Width	Depth x Velocity	Inlet Family	Inlet Size	6	Flow(s) F	Pipe Le	Reach ength	Slope Diamete	Invert er Level	Level	in Pipe in		Flow Charlestop Co		Chart Ratios	Surface Surface Elevation Level	Free- board	Pit Remark Name
		(ha)	(ILSAX)	(%)	(minutes)	(m)	(%) n	(minutes)	*worst storm) (m)	(m²/s)			(m ³ /s)	(m³/s) (n		(m)	(%) (mm)		(m)		`	(m/s) I	(u [2016]		(m) (m)	(m)	
	AA-1	0.0339	Paved Supp.	10 0	5 0 10			5	0.012 US AA-1		Surfa	ace Inlet Pit, 1% grade	SIP 900x900	0.012	0 0	.012 1	1.817	0.99 150	8.063	8.045	8.161	3.142	0.94 7	36 A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.13	8.29 14.671	6.38	AA-1
1%	AA-1	0.0339	Grassed Paved	90		as above -	>	10 5	0.018 US AA-1		<	as above>		0.018	0 0	.018	<	as above		.>	8.186	3.176	1.13 7	.4		8.53 14.671	6.14	AA-1
			Grassed					10																				
	A-1	0.0114	Paved Supp.	100	5			5	0.007		Surfa	ace Inlet Pit Sag	SIP 900x900	0.007	0 0	.017 28	28.224	1 250	8.015	7.733	8.129	7.865	0.77 2	26 A1-18 [A2-28 & A2-29]	Du / Do = 0.64, Qg / Qo = 0.40, S / Do = 0.5	8.14 8.838	0.7	A-1
1%	A-1	0.0114	Grassed Paved	0 <	10	as above -	>	10 5	0.009		<	as above>		0.009	0 0	.025	<	as above		->	8.143	7.907	1.01 2	.3		8.18 8.838	0.66	A-1
		0.0074	Grassed	400				10	2004				0.00.000	0.004			10.01	4 050	7.700	7.570	7.044	7.070	4.54	44.00 (40.00)		7.07	0.00	
	A-2	0.0074	Supp.	0	5 0			5	0.004 A-1 0	0	0 Surfa	ace Inlet Pit Sag	SIP 900x900	0.004	0 (0.03 1	13.01	1 250	7.703	7.573	7.844	7.679	1.54 1	67 A1-20 [A2-32]	Du/Do=1.00, Qg/Qo=0.16, S/Do=1.1	7.87 8.843	0.98	A-2
1%	A-2	0.0074	Paved Grassed	<	10	as above -	>	10 5	0.006 A-1 0	0	0 <	as above >		0.006	0 0	.045	<	as above		->	7.877	7.718	1.58	.7		7.91 8.843	0.94	A-2
	A 2		Grassed					10				ation Dit	ID 000v000	^		020	0 740	4 070	7540	7.005	7.670	7 24	1 66	A2 A4 D4 IAO D7 0 A0 00	DI/Do=064 B/D==070 /00/05 VD=15 V 000	7.00 0.00	4.04	A 2
	A-3		Paved Supp.								Junc	ction Pit	JP 900x900	0	0	.032 30	00.748	1 250	7.543	1.235	7.0/9	r.34	0 00.1	45 A1-Z4 [AZ-37 & A2-38]	DI / Do = 0.64, B / Do = 3.72, (Qu / Qo)(Do / Du) = 0.92	7.08 8.89	1.21	A-3
1%	A-3		Paved Crassed								<	as above>		0	0	.048	<	as above	<u> </u>	.>	7.718	7.386	1.6	.4		7.72 8.89	1.17	A-3
	A-4		Grassed Paved								I see at	ction Pit	JP 900x900	0		036 04	90 000	1 200	7 10	g p2	7 222	6.05	1 60	0 A1-20 [A2-32]	Du/Do=0.80, Qg/Qo=0.14, S/Do=1.0	7.23 8.737	1 5	Δ.4
	A-4		Supp. Grassed								June	SION FIL	JP 900X900	0	0	.030 23	.9.990	1 300	7.13	0.03	1.233	0.95	1.09	0 A1-20 [A2-32]	Du/D0-0.80, Qg/Q0-0.14, 3/D0-1.0	1.23 6.131	1.5	A-4
1%	A-4		Paved Grassed								<	as above>		0	0	.056	<	as above		->	7.386	7.345	0.86	0		7.39 8.737	1.35	A-4
	A-5		Paved								June	ction Pit	JP 900x900	0	0	.041 24	25.327	1 300	6.8	6.547	6.95	6.658	1.74	58 A1-25 [A2-39]	Du/Do=1.00, Qg/Qo=0.00, S/Do=1.0	6.95 8.466	1.52	A-5
	-		Supp. Grassed								June	SHOTT IL	01 000000				0.021	1 000	0.0	0.0-17	0.00	3.000	1.1-4	N 20 [N2 00]	54/50 1.00, 4 g/ 4 0 0.00, 0/50 1.0	0.00	1.02	AV .
1%	A-5		Paved Grassed								<	as above>		0	0	.071	<	as above	,	->	7.328	7.289	0.98	.6		7.34 8.466	1.12	A-5
	A-6		Paved								Junc	ction Pit	JP 900x900	0	0 0	.046 9	9.311	1 375	6.406	6.313	6.582	3.506	0.9 1	98 A1-24 [A2-37 & A2-38]	DI / Do = 0.81, B / Do = 2.40, (Qu / Qo)(Do / Du) = 0.24	6.58 8.37	1.79	A-6
			Supp. Grassed																									
1%	A-6		Paved Grassed								<	as above>		0	0 0	.077	<	as above		->	7.259	7.252	0.7	2		7.29 8.37	1.08	A-6
	A-7		Paved	100	5			5	0.005 A-6 0.011	1.45	0.02 Surfa	ace Inlet Pit. 1% grade	SIP 900x900	0.005	0 0	0.05 8	8.402	1 375	6.283	6,199	6.502	6.489	0.74 0	68 A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.11, S / Do = 1.0	6.51 8.061	1.56	A-7
			Supp. Grassed	0	0			10																				
1%	A-7	0.0085	Paved Grassed	<		as above -	>	5 10	0.007 A-6 0.016	1.66	0.02 <	as above>		0.007	0 0	.082	<	as above		->	7.239	7.231	0.74	.7		7.25 8.061	0.81	A-7
	A-8	0.0164	Paved	100	5			5	0.009 A-7 0.012	2 1.47	0.02 Surfa	ace Inlet Pit, 1% grade	SIP 900x900	0.009	0 0	.056	12.5	1 375	6.169	6.044	6.482	6.474	0.57 0	97 A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.19, S / Do = 1.0	6.49 7.927	1.44	A-8
			Supp. Grassed	0	0 10			10																				
1%	A-8	0.0164	Paved Grassed	<		as above -	>	5 10	0.014 A-7 0.017	1.68	0.02 <	as above>		0.014	0 (0.09	<	as above		->	7.209	7.194	0.81	1		7.23 7.927	0.7	A-8
	A-9	0.021	Paved	100	5			5	0.012 A-8 0.009	1.21	0.01 Surfa	ace Inlet Pit, 1% grade	SIP 900x900	0.012	0 0	.064	12.5	1 375	6.014	5.889	6.463	6.455	0.58 1	05 A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.21, S / Do = 1.2	6.47 7.727	1.25	A-9
			Supp. Grassed	0	0 10			10																				
1%	A-9		Paved Grassed	<		as above -	>	5 10	0.018 A-8 0.013	3 0	0 <	as above >		0.018	0 0	.101	<	as above		->	7.162	7.141	0.91	1		7.19 7.727	0.53	A-9
	A-10	0.0198	Paved	100	5			5	0.011 A-9 0	0	0 Surfa	ace Inlet Pit, 1% grade	SIP 900x900	0.011	0 0	0.07	12.5	1 375	5.859	5.734	6.444	6.435	0.64 0	91 A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.18, S / Do = 1.6	6.46 7.514	1.06	A-10
			Supp. Grassed	0	0 10			10		_																		
1%	A-10	0.0198	Paved Grassed	<		as above -	>	5 10	0.016 A-9 0	0	0 <	as above >		0.016	0 0	.111	<	as above		->	7.107	7.082	1 (.9		7.14 7.514	0.37	A-10
	A-11	0.0207	Paved		5			5	0.012 A-10 0.008	3 1.48	0.01 Surfa	ace Inlet Pit, 1% grade	SIP 900x900	0.012	0 0	.078 6	6.124	1 375	5.704	5.643	6.423	6.418	0.71 0	79 A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.17, S / Do = 2.0	6.44 7.292	0.86	A-11
40/	A 44	0.0007	Supp. Grassed	0	10			10	0.047					0.045		100					7.055	7.040	4.4	0		7.00	0.01	A 44
1%	A-11		Paved Grassed	<		as above -	>	5 10	0.017 A-10 0.012	2 0	U <	as above >		0.017	0 0	.122	<	as above		->	7.055	r.043	1.1 (.0		7.08 7.292	0.21	A-11
	A-12	0.1385	Paved	90	5			5	0.074 A-11 0.002	2 0.48	0.01 Surfa	ace Inlet Pit Sag	SIP 1200x1200	0.074	0 0	.365 10	6.949	1 600	5.613	5.443	6.39	6.377	1.3	.1 A1-20 [A2-32]	Du/Do=0.75, Qg/Qo=0.24, S/Do=1.5	6.42 7.1	0.68	A-12
			Supp. Grassed	10	10			10	A-13 0.004 AG-4 0.012	1.45	0.02																	
									AJ-1 0.003	1.43 0.32	0.02																	
									AK-5 0.015 US1 A-12 US2 A-12	1.79	0.02																	
1%	A-12	0.1385	Paved Grassed	<		as above -	>	5	0.108 A-11 0.003 A-13 0.007		0.02 <	as above>		0.108	0 0	.526	<	as above		->	6.983	6.956	1.87	.1		7.04 7.1	0.06	A-12
			Jidaseu					10	AG-4 0.017	1.66 1.61	0.02																	
									AJ-1 0.004 AK-5 0.024	0.37	0.03																	
									US1 A-12 US2 A-12	2,00	0.00																	
	A-13	0.0059	Paved	100	5			5		1 65	0.01 Surfs	ace Inlet Pit 1% grade	SIP 900×900	0.006	0 0	0.47	1,302	1 750	5 413	5.3	6.337	6.332	1.08	19 H-O'L	Qg / Qo = 0.01, S / Do = 1.4	6.38 7.267	0.80	A-13
	F-10		Supp. Grassed	0	0			10	0.000 AL-0 0.017	1.00	U.U GUITE	COO IIIOCT IL, 1/0 GIAGE	OII OUONOUU	0.000		VTI 1	1.002	. 750	5.413	V.U	5.051	J.002	Z	IFOL	≪g / ≪o − 0.01, 0 / D0 − 1.4	0.00 7.207	0.09	V-14
1%	A-13	0.0059	Paved Grassed	<		as above -	>	5	0.005 AL-5 0.029	1.65	0.03 <	as above >		0.011	0 (0.68	<	as above)	->	6.876	6.867	1.56 2	.2		6.96 7.267	0.31	A-13
	A-14		Paved					10			DIDE	E CONNECTION	PIPE CONNECTION	0	0	.467	3	1 750	5.3	5 27	6.311	6.31	1.08	35 A1-14 [A2-20 & A2-21]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.5	6.33 7.376	1.04	A-14
			Supp. Grassed								FIFE		55/11/2011/014					. 750	0.0	VILI	5.011	2021			24, 20 1100j agj (ato = 0.00j 0 / 20 = 1.0	5.00	1.04	21-1-T
1%	A-14		Paved								<	as above>		0	0	.682	<	as above		->	6.805	6.802	1.57	.4		6.87 7.376	0.51	A-14

		Bar Scales		Client	Scales	NTO	Drawn	CK	Project TRANSPORT DEPORT	Civil Engineers and Project Managers
			THIS DRAWING CANNOT BE			NTS	Designed	СК	7A-11 RACECOURSE RD	Level 7, 153 Walker Street North Sydney NSW 2060
			COPIED OR REPRODUCED IN		Grid	MGA56	Checked	GJ	5-9 FAUNCE ST & YOUNG ST	NSW 2060 P 02 9439 1777 E info@atl.net.au
			ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN	WALUYA PTY LTD	Height Datum	AHD	Approved	AT	WEST GOSFORD	www.atl.net.au ABN 96 130 882 405
			THAT ORIGINALLY INTENDED						Title	FOR APPROVAL A1
B REISSUED FOR SOFAC RESPONSE	08-02-24		WITHOUT THE WRITTEN						STORMWATER DRAINAGE	NOT TO BE USED FOR CONSTRUCTION
A ISSUED FOR SOFAC RESPONSE	07-02-24		PERMISSION OF AT&L						CALCULATION	Project - Drawing No. Issue
Issue Description	Date								SHEET 1 OF 6	22-1063-DAC064 B

		Grassed																				
АВ	-1	0.0253 Paved Supp.	10 5		5	0.009 AA-1 0.009 0.72	0.03	Surface Inlet Pit, 1% grade SIP 900x900	0.009	0	0.01 1.84	0.98	150 7.751 7.733 7.86	7.865	0.65	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.09	7.98	14.492	6.51	AB-1
1% AB	-1	Grassed 0.0253 Paved	90 10	as above>	10 5	0.014 AA-1 0.013 0.83	0.05	< as above>	0.014	0	0.016 <-		- as above> 7.91	5 7.907	0.84	7.9			8.2	14.492	6.29	AB-1
		Grassed			10																	
AC	-1	0.0117 Paved Supp.	10 5 0 0			0.004 AB-1 0.029 1.95 US AC-1	0.03	Surface Inlet Pit, 1% grade SIP 900x900	0.004		0.003 1.85	0.97	150 7.591 7.573 7.68	7.679	0.24	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	7.69	14.465	6.77	AC-1
1% AC	-1	Grassed 0.0117 Paved	90 10	as above>	10 5 10	0.006 AB-1 0.042 2.24	0.04	< as above>	0.006		0.004 <-		- as above> 7.71	7.718	0.24	7.9			7.74	14.465	6.73	AC-1
ΔD	.1	Grassed 0.0158 Paved	10 5		5	US AC-1 0.006 US AD-1		Surface Inlet Pit, 1% grade SIP 900x900	0.006	0	0.005 1.904	1	150 7.254 7.235 7.31	3 7 282	1.05	7 92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.02	7.35	15.089	7.74	AD-1
AD		Supp. Grassed	0 0		10	0.000 00 AD-1		Surface filet Fit, 170 grade Oil 300x300	0.000		0.000	'	1.254 7.255 7.51	7.202	1.00	7.02	A1-4 [A2-0]	117 00 - 0.0, 1027 (2900) - 0.02	7.00	10.000		Λυ-1
1% AD	-1 (0.0158 Paved Grassed	<	as above>	5 10	0.009 US AD-1		< as above>	0.009	0	0.008 <		- as above> 7.38	7.386	0.46	7.9			7.45	15.089	7.64	AD-1
AE	1	0.0156 Paved	10 5		5	0.005 AD-1 0.013 1.52	0.01	Surface Inlet Pit, 1% grade SIP 900x900	0.009	0	0.005 1.552	1.03	150 6.846 6.83 6.95	1 6.95	0.39	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.03	6.99	14.764	7.78	AE-1
1% AE	1	Supp. Grassed 0.0156 Paved	90 10	as above	10	0.008 AD-1 0.02 1.21	0.01	<as above=""></as>	0.015	0	0.008 <		- as above> 7.34	3 7.345	0.44	7.9			7.41	14.764	7.36	AE-1
		Grassed		as assert	10	715 7 5162 1121			0.010		0.000		1101	11010		710						,
AF	1 (0.0131 Paved Supp.	10 5 0 0		5	0.005 AE-1 0.029 2.11	0.03	Surface Inlet Pit, 1% grade SIP 900x900	0.006	0	0.004 1.55	0.97	150 6.562 6.547 6.62	6.591	1.02	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.02	6.65	14.306	7.65	AF-1
1% AF	1 (Grassed 0.0131 Paved Grassed	90 10	as above>	10 5 10	0.007 AE-1 0.043 2.42	0.04	< as above>	0.009	0	0.007 <-		- as above> 7.29	7.289	0.37	7.9			7.33	14.306	6.97	AF-1
АН	-1	Paved			10			Surface Inlet Pit, 1% grade SIP 900x900	0	0	0.007 19.963	1	250 6.666 6.466 6.80	1 6.769	0.27	ot calculated			6.81	7.681	0.87	AH-1
		Supp. Grassed																				
1% AH	-1	Paved Grassed						< as above>	0	0	0.009 <-		- as above> 7.45	7 7.453	0.21	2			7.46	7.681	0.22	AH-1
AG	-4	Paved Supp.						Surface Inlet Pit, 1% grade SIP 900x900	0	0	0.149 6.843	1.1	375 6.436 6.361 6.76	6.741	1.43	0	A1-25 [A2-39]	Du/Do=0.81, Qg/Qo=0.00, S/Do=0.9	6.77	7.485	0.72	AG-4
1% AG	-4	Grassed Paved						< as above>	0	0	0.226 <		- as above> 7.45	3 7.421	2.05	0			7.45	7.485	0.03	AG-4
		Grassed																				
AG	-5	Paved Supp.						Junction Pit JP 900x900	0		0.148 4.584	1.31	375 6.331 6.271 6.61	6.575	1.66	1.58	A1-7 [A2-8 & A2-9]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.4	6.74	7.363	0.62	AG-5
1% AG	-5	Grassed Paved Grassed						< as above>	0		0.226 <-		- as above> 7.26	7.243	2.05	1.6			7.42	7.363	0	AG-5
AG	-6	0.1127 Paved	100 5		5	0.065 A-2 0.003 0.83	0.01	Surface Inlet Pit, 1% grade SIP 900x900	0.065	0.004	0.23 8.999	1.43	450 6.153 6.024 6.48	9 6.418	1.81	1.65	A1-20 [A2-32]	Du/Do=0.54, Qg/Qo=0.31, S/Do=1.4	6.58	7.272	0.7	AG-6
		Supp. Grassed	0 0 0 10		10	AH-1 0.007 1.19 AI-1 0.008 1.48	0.01 0.01															
1% AG	-6	0.1127 Paved Grassed	<	as above	5 10	0.094 A-2 0.006 1.01 AH-1 0.011 1.35 AI-1 0.012 0	0.01 0.02 0	< as above>	0.094	0.007	0.346 <-		- as above> 7.08	7.043	2.17	1.6			7.24	7.272	0.03	AG-6
Al-	1	0.0564 Paved	100 5		5	0.032 US AI-1		Surface Inlet Pit, 1% grade SIP 900x900	0.032	0.001	0.029 21.257	1	250 6.471 6.258 6.61	6.575	1.07	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.09	6.77	7.485	0.72	Al-1
		Supp. Grassed	0 0 0 10		10													,, ,, ,, ,, ,, ,, ,, ,, ,, ,,				
1% AI-	1	0.0564 Paved Grassed	<	as above>	5 10	0.047 US AI-1		< as above>	0.047	0.002	0.043 <-		- as above> 7.27	7.243	0.94	7.9			7.44	7.485	0.05	Al-1
AJ	1	Paved Supp.						Surface Inlet Pit, 1% grade SIP 900x900	0	0	0.002 7.048	1.96	250 6.411 6.273 6.57	6.575	0.06	ot calculated			6.58	7.431	0.85	AJ-1
1% AJ -	1	Grassed Paved						< as above>	0	0	0.002 <-		- as above> 7.24	7.243	0.05	2			7.25	7.431	0.19	AJ-1
		Grassed																				
AK	-1	0.0112 Paved Supp. Grassed	100 5 0 0 0 10		10	0.006		Surface Inlet Pit, 1% grade SIP 900x900	0.006	0	0.007 8.314	1.86	250 7.209 7.054 7.29	7.143	0.43	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.00	7.3	8.229	0.93	AK-1
1% AK	-1	0.0112 Paved Grassed	- 10	as above>	5	0.009		< as above>	0.009	0	0.009 <-		- as above> 7.32	7.182	0.42	7.9			7.33	8.229	0.9	AK-1
AK	-2	0.0129 Paved	100 5		5	0.007 AK-1 0.025 0.92	0.07	Surface Inlet Pit, 1% grade SIP 900x900	0.007	0	0.014 12.5	1.86	250 7.024 6.792 7.14	6.91	0.63	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.02	7.14	8.054	0.91	AK-2
10/ AV	2	Supp. Grassed 0.0129 Paved	0 0 0	as above	10	0.011 AK-1 0.039 1.08	0.00	d sadous h	0.011	0	0.02 <-		7.12	6 002	0.93	7.0			7 10	9.054	0.87	AK-2
1% AK	-	Grassed		as above	10	0.011 An-1 0.039 1.00	0.09	<as above=""></as>	0.011	0	0.02		- as above> 7.13	0.992	0.93	7.5			7.10	0.034	0.07	AN-2
AK	-3	0.0212 Paved Supp.	100 5 0 0		5	0.012 AK-2 0.015 0.78	0.05	Surface Inlet Pit, 1% grade SIP 900x900	0.013	0	0.024 12.5	1.86	250 6.762 6.53 6.88	6.606	1.98	2.08	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.50, S / Do = 1.1	6.91	7.792	0.88	AK-3
1% AK	-3	Grassed 0.0212 Paved Grassed	0 10	as above>	10 5	0.018 AK-2 0.025 0.92	0.06	< as above>	0.02	0	0.036 <		- as above> 6.98	1 6.975	0.82	2.1			6.99	7.792	0.8	AK-3
ΔK	-4	Grassed 0.0218 Paved	100 5		5	0.012 AK-3 0.005 1.05	0.01	Surface Inlet Pit, 1% grade SIP 900x900	0.015	0	0.036 12.5	1.86	300 6.425 6.193 6.56	3 6.386	1.08	0.94	A1-5 [A2-4]	Du / Do = 0.80, Qg / Qo = 0.38, S / Do = 1.0	6.57	7.53	0.96	AK-4
		Supp. Grassed	0 0 0 10		10													and and are also at an also				
1% AK	-4	0.0218 Paved Grassed	<	as above	5 10	0.018 AK-3 0.024 1.86	0.03	< as above>	0.039	0	0.053 <-		- as above> 6.97	6.969	0.74	0.9			6.98	7.53	0.55	AK-4
AK	-5	0.0206 Paved Supp.	100 5		5	0.012 AK-4 0.005 0.5	0.02	Surface Inlet Pit, 1% grade SIP 900x900	0.012	0	0.047 6.124	1	300 6.163 6.102 6.38	6.377	0.86	1.36	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.28, S / Do = 1.1	6.39	7.268	0.88	AK-5
1% AK	-5	Grassed 0.0206 Paved	0 10	as above>	10 5	0.017 AK-4 0.007 0.59	0.03	< as above>	0.017	0	0.07 <		-as above> 6.95	9 6.956	0.97	1.4			6.97	7.268	0.3	AK-5
		Grassed			10																	
AL	-1 (0.0134 Paved Supp.	10 5 0 0 90 10		10	0.005 AM-1 0.017 1.52	0.01	Surface Inlet Pit, 1% grade SIP 900x900	0.005	0	0.005 1.55	0.97	150 8.2 8.185 8.26	8.23	1.02	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.02	8.29	13.042	4.75	AL-1
1% AL	1 (Grassed 0.0134 Paved Grassed		as above>	5	0.007 AM-1 0.025 0	0	< as above>	0.007	0	0.007 <-		-as above> 8.27	7 8.243	1.11	7.9			8.32	13.042	4.72	AL-1
AL	-2	Paved						Junction Pit JP 900x900	0		0.005 25.14	2.53	250 8.155 7.52 8.20	7.568	0.75	2.26	H-O'L	Qg / Qo = 0.00, S / Do = 1.0	8.21	9.28	1.07	AL-2
40/		Supp. Grassed																				A: 0
1% AL	-2	Paved Grassed						< as above>	0		0.008 <		- as above> 8.23	7.665	0.62	2.3			8.23	9.28	1.05	AL-Z
AL	3	Paved Supp.						Junction Pit JP 900x900	0	0	0.009 29.881	1.95	250 7.49 6.906 7.56	7.061	0.71	1.26	H-O'L	Qg / Qo = 0.00, S / Do = 1.0	7.57	8.645	1.08	AL-3
1% AL	3	Grassed Paved						< as above>	0	0	0.018 <-		-as above> 7.66	1 7.647	0.53	1.3			7.66	8.645	0.98	AL-3
		Grassed																				

		Bar Scales	THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY	Client WALUYA PTY LTD	Scales Grid	NTS MGA56	Drawn Designed Checked	CK CK GJ	TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD	Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au
	REISSUED FOR SOFAC RESPONSE 08-0 ISSUED FOR SOFAC RESPONSE 07-0		OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	WALUTA PIT LID	Datum	AHD	Approved	AT	Title STODMINACE	ABN 96 130 882 405 Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No. Issue
Issue	Description Da	te							SHEET 2 OF 6	22-1063-DAC065 B

A	L-4	0.0728 I	Paved Supp.	10 5		5	0.025	AL-3	0.018 1.7	6 0.02	Surface Inlet Pit, 1% grade SIP 900x900	0.025	0.001	0.036 31.029	2.1	300 6.831 6.178	6.975	6.669	1.05	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.04	7.06	8.031	0.97	AL-4
1% A	L-4		rassed	90 10	as above>	10 5	0.04	AL-3	0.025 1.9	7 0.03	<as above=""></as>	0.04	0.002	2 0.054 <-		- as above>	7.448	7.406	0.75	7.9			7.65	8.031	0.38	AL-4
Δ.	1.5	0.1298 I	Paved	10 5		10	0.045	Δ1 -4	0.019 1.8	0.02	Surface Inlet Pit, 1% grade SIP 900x900	0.047	0.003	13 0.079 9.15	1.01	300 6.148 6.056	6 308	6 377	1 23	6.01	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.20	6 67	7.378	0.71	AL-5
		G	Supp. irassed	0 0 90 10		10		AN-1 US AL-5	0.004 0	0					1.01					0.01	A1-4 [A2-0]	117 D0 = 0.0, V027 (29D0) = 0.20			0.71	
1% A	L-5		Paved	<	as above>	5 10			0.031 2.1 0.01 0.4		< as above>	0.078	0.021	21 0.115 <-		- as above>	6.987	6.956	1.59	6			7.41	7.378	0	AL-5
Al	W-1	0.0133 I	Paved	10 5		5		US AL-5 AF-1	0.009 1.1	7 0.01	Surface Inlet Pit, 1% grade SIP 900x900	0.005	0	0.005 1.757	1.02	150 7.538 7.52	7.599	7.568	0.91	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.02	7.63	13.652	6.02	AM-1
		G	Supp. trassed	0 0 90 10		10																				
1% Al	W-1		Paved	<	as above	10	0.007	AF-1	0.013 0	0	<as above=""></as>	0.007	0	0.007 <		- as above>	7.666	7.665	0.42	7.9			7.72	13.652	5.93	AM-1
Al	N-1		Paved Supp.	10 5 0 0			0.003	AL-1	0.006 0.6	0.03	Surface Inlet Pit, 1% grade SIP 900x900	0.003	0	0.003 26.546	4.47	150 8.093 6.906	8.159	7.061	0.33	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	8.16	9.48	1.32	AN-1
1% A	N-1	0.0074 I	Paved Frassed	90 10	as above>	10 5 10	0.004	AL-1	0.009 0.7	0.04	<as above=""></as>	0.004	0	0.004 <-		- as above>	8.15	7.647	0.63	7.9			8.18	9.48	1.3	AN-1
В	A-1	0.0369		10 5			0.013				Surface Inlet Pit, 1% grade SIP 900x900	0.013	0	0.013 1.55	1.03	150 7.903 7.887	8.007	7.965	1.36	6.7	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.16	8.13	12.258	4.13	BA-1
40/		G	Supp. irassed	0 0 90 10		10	0.00					0.00		0.00			0.455	0.445	4.00	0.7			0.00	40.050	2.40	D. 4
1% B	A-1		Paved	<	as above>	10	0.02				< as above>	0.02	0	0.02 <-		- as above>	8.455	8.445	1.06	6.7			8.83	12.258	3.43	BA-1
Е	3-1		Paved Supp.								Junction Pit JP 900x900	0		0.014 19.154	1	250 7.857 7.666	7.948	7.751	0.95	1.83 A1	1-18 [A2-28 & A2-29]	Du / Do = 0.64, Qg / Qo = 0.00, S / Do = 0.4	7.95	8.941	0.99	B-1
1% E	3-1	1	Paved Frassed								<as above=""></as>	0		0.022 <-		- as above>	8.426	8.41	0.47	1.8			8.45	8.941	0.5	B-1
E	3-2		Paved								Junction Pit JP 900x900	0		0.02 14.29	1	250 7.636 7.493	7.751	7.599	1.02	1.32 A1	1-24 [A2-37 & A2-38]	DI / Do = 0.64, B / Do = 3.72, (Qu / Qo)(Do / Du) = 0.70	7.75	8.861	1.11	B-2
10/		G	Supp. irassed									0		0.034			0 201	0.250	0.74	1.2			0.44	8.861	0.45	D 2
1% E		G	Paved								<as above=""></as>								0.74							
Е	3-3		Paved Supp.								Junction Pit JP 900x900	0		0.024 9.339	1.01	300 7.463 7.369	7.599	7.504	0.79	1.83 A1	1-24 [A2-37 & A2-38]	DI / Do = 0.80, B / Do = 2.97, (Qu / Qo)(Do / Du) = 0.37	7.6	8.806	1.21	B-3
1% E	3-3		Paved Frassed								< as above>	0		0.042 <-		- as above>	8.337	8.331	0.59	1.8			8.36	8.806	0.45	B-3
E	3-4		Paved								Junction Pit JP 900x900	0		0.031 20.467	1	300 7.339 7.135	7.504	7.486	0.76	0.51	A1-25 [A2-39]	Du/Do=1.00, Qg/Qo=0.00, S/Do=1.0	7.5	8.705	1.2	B-4
1% E	3-4	G	Supp. rassed Paved								< as above>	0		0.053 <		- as above>	g 321	83	0.74	0.5			8 22	8.705	0.37	B-4
		G	rassed								<as autove=""></as>			0.000		- as above	0.021	0.0	0.74	0.5			0.55	0.703	0.57	
E	3-5		Supp.	10 5 0 0 90 10		5		BD-1 US B-5	0.008 1.2	9 0.01	Surface Inlet Pit, 1% grade SIP 900x900	0.012	0	0.071 1.906	1	375 7.105 7.086	7.455	7.453	0.66	1.74	A1-20 [A2-32]	Du/Do=0.81, Qg/Qo=0.17, S/Do=1.1	7.49	8.52	1.03	B-5
1% E	3-5	0.0332	Paved Frassed		as above	5		BD-1 US B-5	0.012 0	0	< as above>	0.018	0	0.105 <-		- as above>	8.23	8.226	0.95	1.7			8.3	8.52	0.22	B-5
Е	3-6		Paved					B-5	0.02 1.8	7 0.02	Surface Inlet Pit, 1% grade SIP 900x900	0	0	0.074 16.35	1	375 7.056 6.892	7.446	7.426	0.67	0.32	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.03, S / Do = 1.1	7.45	8.47	1.02	B-6
1% E	3-6	G	Supp. rassed Paved						0.018 1.8 0.029 2.1		< as above>	0	0	0.113 <-		- as above>	8.21	8.168	1.02	0.3			8.23	8.47	0.24	B-6
		G	irassed					BE-1	0.028 2.1	7 0.03																
E	3-7		Paved Supp. Frassed	100 5 0 0 0 10		10	0.052	B-6 BG-2 BG-3	0.016 1.6 0 0 0.005 0.6	0	Surface Inlet Pit, 1% grade SIP 900x900	0.052	0.002	0.225 14.85	1	450 6.862 6.714	7.236	7.18	1.59	2.1	A1-20 [A2-32]	Du/Do=0.83, Qg/Qo=0.22, S/Do=1.5	7.43	8.305	0.88	B-7
1% E	3-7	0.0908	Paved		as above>	5	0.076	B-6 BG-2	0.024 1.8 0.001 0.2	3 0.03 1 0.01	< as above>	0.076	0.006	06 0.327 <-		- as above>	7.716	7.585	2.06	2.1			8.17	8.305	0.14	B-7
		0.0012	Davad	100 5		5	0.052			0.03	Surface latet Dit 49/ grade SID 000v000	0.052	0.005	0.000 45.404	1.01	600 6 694 6 500	7 170	7 151	1.00	0.26	A1-5 [A2-4]	Du / Do = 0.75, Qg / Qo = 0.23, S / Do = 1.0	7.10	9.164	0.09	B-8
	5-8		Paved Supp. Frassed	100 5 0 0 0 10		10	0.052	BG-4	0.017 1.6 0.015 0.8 0.008 1.2	3 0.05	Surface Inlet Pit, 1% grade SIP 900x900	0.052	0.003	0.268 15.421	1.01	600 6.684 6.529	7.173	7.154	1.09	0.26	A1-5 [A2-4]	Du / Do = 0.75, Qg / Qo = 0.23, S / Do = 1.0	7.18	8.164	0.98	B-8
1% E	3-8	0.0912 I	Paved irassed	<	as above>	5 10	0.076	B-7 BG-4	0.024 1.8 0.023 0.9	4 0.03 6 0.06	< as above>	0.076	0.006	06 0.396 <		- as above>	7.562	7.523	1.41	0.3			7.59	8.164	0.58	B-8
F	3-9		Paved					BI-1	0.012 1.1	0.01	Surface Inlet Pit, 1% grade SIP 900x900	0	0	0.267 9.691	1	600 6.499 6.402	7.092	7.081	0.95	1.7	A1-7 [A2-8 & A2-9]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.2	7.15	8.067	0.91	B-9
		G	Supp. irassed																		y o / te o j	112, mg r sto 5100; 6 r 20 = 112				
1% E	3-9		Paved								< as above>	0	0	0.396 <		- as above>	7.361	7.334	1.41	1.7			7.52	8.067	0.54	B-9
В	-10		Paved Supp.								Surface Inlet Pit, 1% grade SIP 900x900	0	0	0.302 3.179	0.98	750 6.372 6.341	7.047	7.046	0.73	1.75	H-O'L	Qg / Qo = 0.00, S / Do = 1.1	7.08	7.885	0.8	B-10
1% B	-10	G	rassed Paved								<as above=""></as>	0	0.001	01 0.443 <		- as above>	7.249	7.245	1.02	1.8			7.33	7.885	0.55	B-10
В	-11		Paved	100 5		5	0.085		0.017 1.6		Surface Inlet Pit Sag SIP 900x900	0.085	0	0.377 3	1	750 6.311 6.281	6.966	6.964	0.93	2.74	H-O'L	Qg / Qo = 0.26, S / Do = 1.1	7.05	7.801	0.76	B-11
_			Supp. rassed	0 0 0		10		B-9 B-10	0.017 1.5 0.016 1.4	9 0.02 1 0.01								- 9								
									0.002 0.3 0.031 2.0	6 0.02 2 0.04																
1% B	-11	0.148 I		<	as above>	5	0.123	C-2 B-8	0.024 1.7		<as above=""></as>	0.123	0.002	0.551 <-		- as above>	7.086	7.082	1.27	2.7			7.25	7.801	0.56	B-11
		G	rassed			10		B-9 B-10	0.025 1.7 0.024 1.6 0.004 0.4	6 0.03 2 0.02																
									0.004 0.4	0.02																
	40		2					C-2			DIDE CONTROLLO			0.077		750	0.054	0.054	0.04	0.00	11.0%	0-10000 015	0.05	7.00-	0.01	B 40
В	-12		Paved Supp. Frassed								PIPE CONNECTION PIPE CONNECTION	0		0.377 3	1	750 6.281 6.251	0.954	0.951	0.91	0.39	H-O'L	Qg / Qo = 0.00, S / Do = 1.0	6.96	7.807	0.84	B-12
1% B	-12		Paved								< as above>	0		0.543 <		- as above>	7.064	7.061	1.25	0.4			7.08	7.807	0.72	B-12
В	B-1	0.0174		10 5		5	0.006	BA-1	0 0	0	Surface Inlet Pit, 1% grade SIP 900x900	0.006	0	0.006 1.55	0.97	150 7.681 7.666	7.753	7.751	0.7	7.92	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.03	7.81	12.055	4.25	BB-1
		G	Supp. irassed	90 10		10																				

			Bar Scales	THIS DRAWING CANNOT BE	Client	Scales	NTS	Drawn Designed	СК	7A-11 RACECOURSE RD	Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060
				COPIED OR REPRODUCED IN		Grid	MGA56	Checked	GJ	5-9 FAUNCE ST & YOUNG ST	NSW 2060 P 02 9439 1777 E info@atl.net.au
				ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN	WALUYA PTY LTD	Height Datum	AHD	Approved	AT	WEST GOSFORD	www.atl.net.au ABN 96 130 882 405
				THAT ORIGINALLY INTENDED						- Title	Status FOD ADDDOVAL A 4
В	REISSUED FOR SOFAC RESPONSE 08	08-02-24		WITHOUT THE WRITTEN						STORMWATER DRAINAGE	FOR APPROVAL A1 NOT TO BE USED FOR CONSTRUCTION
А	ISSUED FOR SOFAC RESPONSE 07	07-02-24		PERMISSION OF AT&L						CALCULATION	Project - Drawing No. Issue
Issue	Description [Date								SHEET 3 OF 6	22-1063-DAC066 B

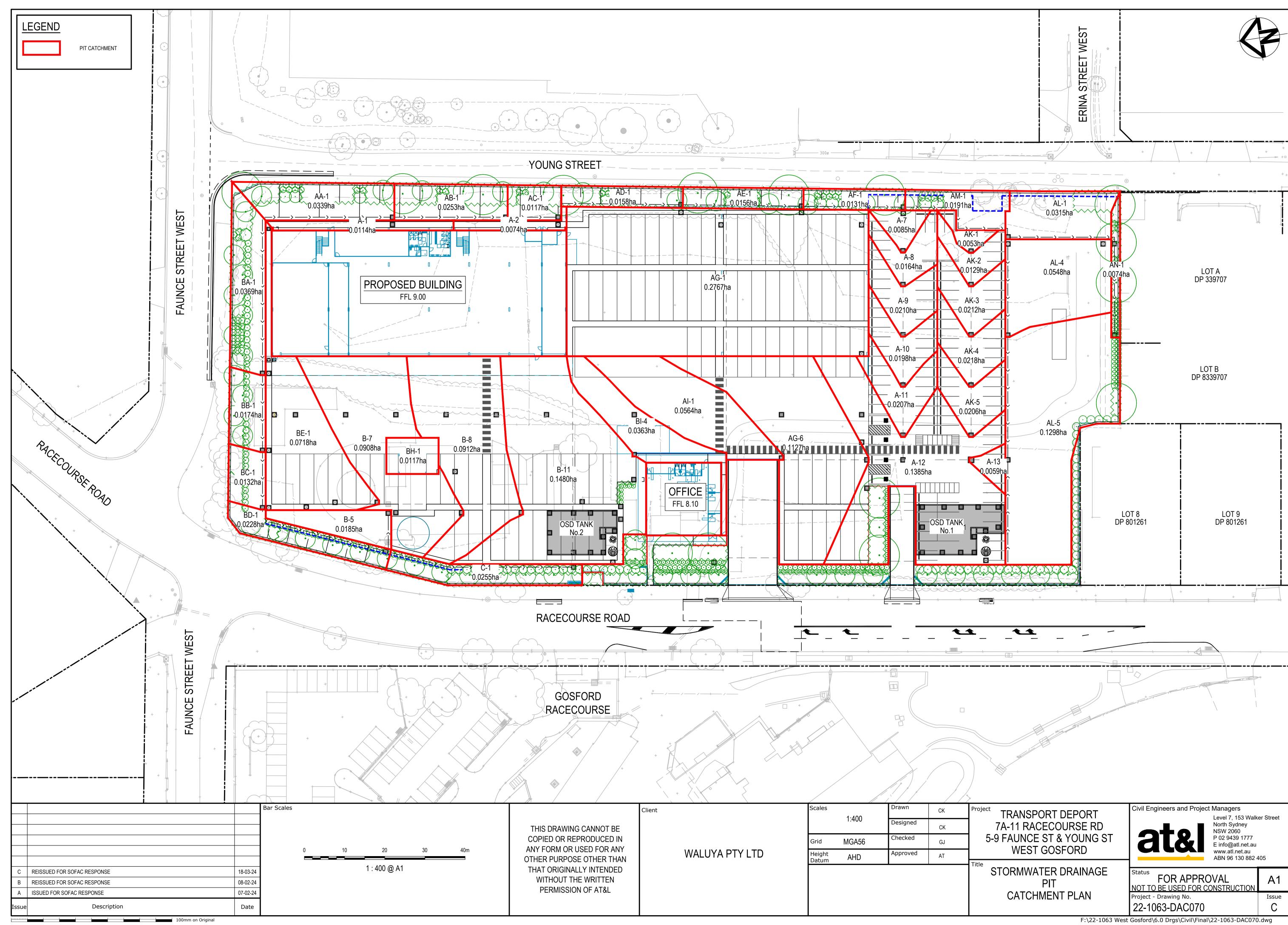
1%	BB-1	0.0174	Paved Grassed	<		as above -	>	5 10	0.009	9 BA-1	0.002	0.48	0.01 < as above>		0.011	0 0.009	<	as above	->	8.412 8.41	0.51	7.9		8.5 12.055	3.55	BB-1
	BC-1	0.0132	Paved Supp.	10	5			5	0.005	5 BB-1	0.004	0.91	0.01 Surface Inlet Pit, 1% grade	SIP 900x900	0.005	0 0.005	1.55	0.97 150 7.508	7.493	7.601 7.599	0.39	7.92 A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.02	7.63 11.368	3.74	BC-1
1%	BC-1	0.0132	Grassed Paved	90	10	as above -	>	10 5 10	0.007	7 BB-1	0.006	0	0 < as above>		0.007	0 0.007	<	as above	->	8.36 8.359	0.39	7.9		8.41 11.368	2.95	BC-1
	BD-1	0.0081	Grassed Paved	10	5			5	0.003	BC-1	0	0	0 Surface Inlet Pit, 1% grade	SIP 900x900	0.003	0 0.003	1.55	1.03 150 7.385	7.369	7.505 7.504	0.18	7.92 A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.01	7.51 8.907	1.4	BD-1
1%	BD-1	0.0081	Supp. Grassed Paved	90	0 10	as above -	>	10 5	0.004	4 BC-1	0	0	0 <as above=""></as>		0.004	0 0.004	<	as above	>	8.331 8.331	0.24	7.9		8.35 8.907	0.55	BD-1
	BE-1	0.0718	Grassed Paved	100	5			10	0.041	1 BG-1	0.012	0.78	0.04 Surface Inlet Pit, 1% grade	SIP 900x900	0.041	0.002 0.036	3.854	0.99 250 7.173	7.135	7.495 7.486	0.78	6.44 A1-4 [A2-3]	H / Do = 0.3, Vo2 / (2gDo) = 0.13	7.71 8.536	0.83	BE-1
1%	BE-1	0.0718	Supp. Grassed Paved	0 0 <	0 10	as above -	>	10	0.06	BF-3		0.9	0.05 <as above=""></as>			0.012 0.054		as above		8.31 8.3				8.55 8.536	0	BE-1
	BG-1		Grassed Paved					10		BF-3			Surface Inlet Pit, 1% grade	SIP 900x900		0 0		1 250 7.869	7 744					7.87 8.881		
1%	BG-1		Supp. Grassed Paved										< as above>		0	0 0.006		as above		8.245 8.24				8.25 8.881		BG-1
170	BG-2		Grassed										Surface Inlet Pit, 1% grade	SID 000v000		0 0								7.71 8.823		
404			Supp. Grassed											SIF 900x900												
1%	BG-2		Paved Grassed										< as above>			0 0.014		as above		8.238 8.23				8.24 8.823		
	BG-3		Paved Supp. Grassed										Surface Inlet Pit, 1% grade	SIP 900x900		0 0		1 250 7.559	7.434					7.56 8.77		
1%	BG-3		Paved Grassed										< as above>		0	0 0.018	<	as above	->	8.23 8.237	0.39	0.2		8.23 8.77	0.54	BG-3
	BG-4		Paved Supp. Grassed										Surface Inlet Pit, 1% grade	SIP 900x900	0	0 0.001	14.336	1 250 7.404	7.26	7.433 7.443	0.28	ot calculated		7.43 8.728	1.29	BG-4
1%	BG-4		Paved Grassed										< as above>		0	0 0.019	<	as above	->	8.205 8.178	0.41	1.3		8.24 8.728	0.49	BG-4
	BG-5		Paved Supp.										Junction Pit	JP 900x900	0	0.009	10.317	1 250 7.23	7.127	7.433 7.426	0.21	2.03 H-O'L	Qg / Qo = 0.00, S / Do = 1.0	7.44 8.484	1.04	BG-5
1%	BG-5		Grassed Paved Grassed										< as above>		0	0.027	<	as above	->	8.17 8.168	0.59	2		8.18 8.484	0.31	BG-5
	BI-1		Paved Supp.										Surface Inlet Pit, 1% grade	SIP 900x900	0	0 0	12.5	1 250 7.664	7.539	7.664 7.539	0	ot calculated		7.66 8.675	1.01	BI-1
1%	BI-1		Grassed Paved Grassed										< as above>		0	0 0	<	as above	>	7.664 7.539	0	2		7.66 8.675	1.01	BI-1
	BI-2		Paved Supp.										Surface Inlet Pit, 1% grade	SIP 900x900	0	0 0	21.852	1 250 7.509	7.291	7.509 7.324	0	ot calculated		7.51 8.622	1.11	BI-2
1%	BI-2		Grassed Paved Grassed										< as above>		0	0 0	<	as above	->	7.518 7.519	0	0.2		7.52 8.622	1.1	BI-2
	BI-3		Paved Supp.										Surface Inlet Pit, 1% grade	SIP 900x900	0	0 0.001	9.952	1 250 7.261	7.161	7.324 7.32	0.11	ot calculated		7.32 8.373	1.05	BI-3
1%	BI-3		Grassed Paved Grassed										< as above>		0	0 0.006	<	as above	->	7.516 7.515	0.12	7.5		7.52 8.373	0.85	BI-3
	BI-4	0.0363	Paved	100	5			5	0.021	1 BI-3	0.009	0.69	0.03 Surface Inlet Pit, 1% grade	SIP 900x900	0.021	0 0.019	6.202	1 250 7.131	7.069	7.243 7.219	0.92	7.92 A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.04	7.32 8.216	0.9	BI-4
1%	BI-4	0.0363	Supp. Grassed Paved	0 0 <	0 10	as above -	>	10 5	0.03	BI-3	0.013	0.81	0.05 < as above>		0.03	0.001 0.027	<	as above	->	7.431 7.426	0.58	7.9		7.52 8.216	0.7	BI-4
	BI-5		Grassed Paved					10					Surface Inlet Pit, 1% grade	SIP 900x900	0	0 0.037	7.441	1.96 250 7.039	6.893	7.197 7.081	1.18	1.63 H-O'L	Qg / Qo = 0.00, S / Do = 1.2	7.22 8.08	0.86	BI-5
1%	BI-5		Supp. Grassed Paved										< as above>		0	0 0.054	<	as above	->	7.356 7.334	1.17	1.6		7.43 8.08	0.65	BI-5
		0.0255	Grassed Paved	10	5			5	0.009	9 US C-	1		Surface Inlet Pit, 1% grade	SIP 900×900	0.009			1.62 150 7.045	6.993				H / Do = 0.0, Vo2 / (2gDo) = 0.07	7.18 8.089		
1%			Supp. Grassed	0 90	0 10	as ahoun	>	10		4 US C-			< as above>			0 0.013		as above		7.151 7.087			, (= g = a)	7.31 8.089		
170	C-2		Grassed Paved			as above		10	5.014	C-1				PIPE CONNECTION		0 0.009							Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.0	7.07 8.029		
40/			Supp. Grassed											, ii E CONNECTION									24 1 20 - 1.00, 4g 1 40 - 0.00, 3 1 20 = 1.0			
1%	C-2		Paved Grassed	155						C-1			< as above>		0	0 0.013		as above		7.087 7.061		U.Z		7.09 8.029	0.94	
		1 0.23	Paved Supp. Grassed	100 0 0	5 0 10			10	0.132						0.132		10							9.37 9		Building 1
1%		1 0.23	Paved Grassed	<		as above -	>	5 10	0.192	2					0.192	0.191		as above		12.161 12.003				12.16 9		Building 1
	BF-1		Paved Supp. Grassed										Junction Pit	JP 600x600	0	0.131	32.6	1 300 8.011	7.685	8.929 8.681	1.82	2.28 H-O'L	Qg / Qo = 0.00, S / Do = 4.4	9.29 9.024	0	BF-1
1%	BF-1		Paved Grassed										< as above>		0	0.188	<	as above	->	11.25 10.752	2.61	2.3		12 9.024	0	BF-1
	BF-2		Paved Supp.										Junction Pit	JP 600x600	0	0.13	1.347	0.97 300 7.655	7.642	8.422 8.412	1.81	1.63 A1-18 [A2-28 & A2-29]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 3.5	8.68 8.957	0.28	BF-2
1%	BF-2		Grassed Paved Grassed										< as above>		0	0.186	<	as above	->	10.213 10.193	2.58	1.6		10.75 8.957	0	BF-2
	BF-3		Paved Supp.										Junction Pit	JP 600x600	0	0 0.13	13.65	1 300 7.612	7.475	8.128 8.023	1.8	1.77 A1-18 [A2-28 & A2-29]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 2.7	8.41 8.965	0.55	BF-3
1%	BF-3		Grassed Paved Grassed										< as above>		0	0 0.185	<	as above	->	9.61 9.402	2.57	1.8		10.19 8.965	0	BF-3

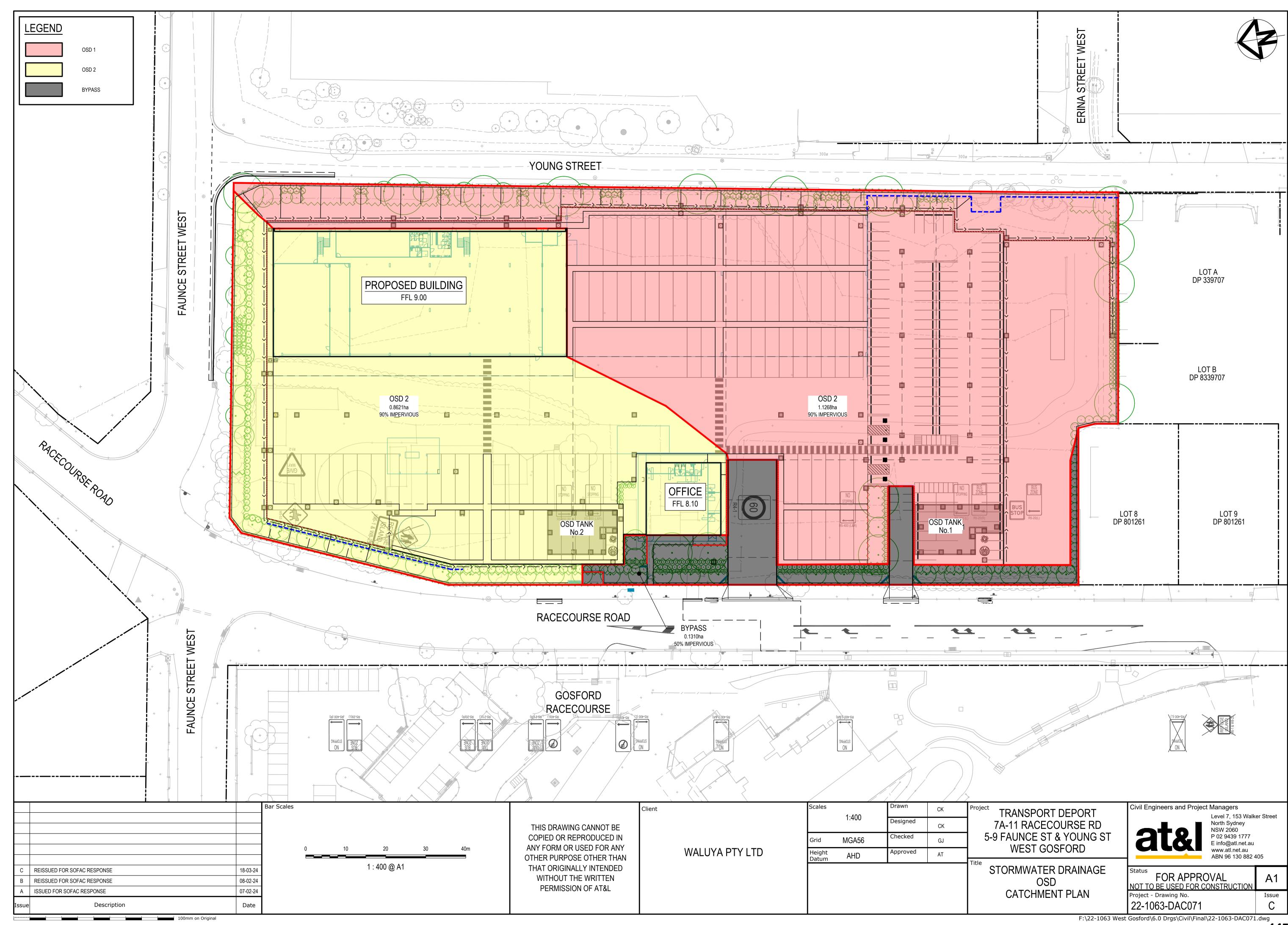
		Bar Scales		Client	Scales		Drawn	СК	Project TRANSPORT DEPORT	Civil Engineers and Project Managers
			THIS DRAWING CANNOT BE			NTS	Designed	СК	7A-11 RACECOURSE RD	Level 7, 153 Walker Street North Sydney NSW 2060
			COPIED OR REPRODUCED IN		Grid	MGA56	Checked	GJ	5-9 FAUNCE ST & YOUNG ST	P 02 9439 1777 E info@atl.net.au
			ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN	WALUYA PTY LTD	Height Datum	AHD	Approved	AT	WEST GOSFORD	www.atl.net.au ABN 96 130 882 405
			THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN						- Title	FOR APPROVAL A1
B REISSUED FOR SOFAC RESPONSE	08-02-24		PERMISSION OF AT&L						STORMWATER DRAINAGE	NOT TO BE USED FOR CONSTRUCTION
A ISSUED FOR SOFAC RESPONSE	07-02-24		I ENWIGOION OF ATRE						CALCULATION	Project - Drawing No. Issue
Issue Description	Date								SHEET 4 OF 6	22-1063-DAC067 B

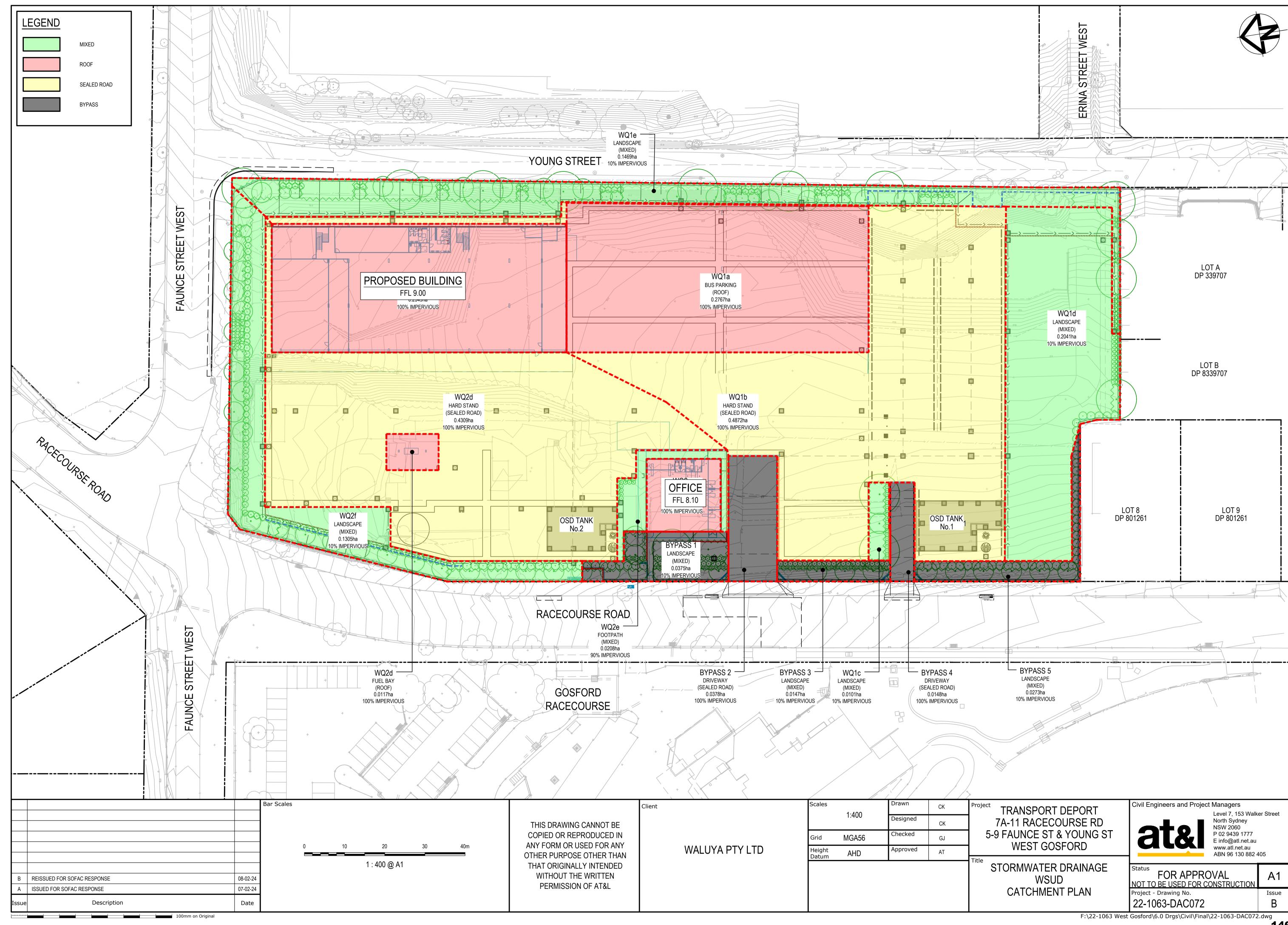
	BF-4	Paved Supp.						Junction Pit	JP 900x900	0	0.129 26.548	1	300 7.445 7.18 7.	7.733	7.529	1.83 1.82 A1-10	0 [A2-12 & A2-13]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 2.1	8.02	8.891	0.87	BF-4
1%	BF-4	Grassed Paved Grassed						< as above>		0	0.185 <		as above> 8.	3.793	8.382	2.57 1.8			9.4	8.891	0	BF-4
	BF-5	Paved						Junction Pit	JP 900x900	0	0.128 17.509	1	300 6.731 6.556 6	6.996	6.778	2.27 3.78	A1-4 [A2-3]	H / Do = 0.0, Vo2 / (2gDo) = 0.54	7.53	8.63	1.1	BF-5
1%	BF-5	Supp. Grassed Paved						< as above>		0	0.185		as above> 7.	7.118	6.851	2.59 3.8			8.38	8.63	0.25	BF-5
		Grassed	100 5			0.159				0.159										9		
	Bus parkin	Supp. Grassed	100 5 0 0 0 10		10							1	300 7.775 7.675 8						8.53	9		Bus parking
1%	Bus parkin	0.2767 Paved Grassed	<	as above>	5 10	0.231				0.231	0.23 <		as above> 10	0.658 1	10.414	3.19			10.66	9		Bus parking
	AG-1	Paved Supp.						Junction Pit	JP 900x900	0	0.16 35	1	300 7.675 7.325 8	3.356	7.96	2.22 0.2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 2.4	8.4	8.614	0.21	AG-1
1%	AG-1	Grassed Paved Grassed						< as above>		0	0.229 <		as above> 1	10.31	9.484	3.17 0.2			10.41	8.614	0	AG-1
	AG-2	Paved Supp.						Junction Pit	JP 900x900	0	0.16 32.085	1.46	300 7.295 6.825 7	7.578	7.065	2.62 1.94 A1-18	8 [A2-28 & A2-29]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 2.2	7.96	8.267	0.31	AG-2
1%	AG-2	Grassed Paved						< as above>		0	0.228		as above> 8	3.502	7.766	3.16 1.9			9.48	8.267	0	AG-2
	AG-3	Grassed Paved						Junction Pit	JP 900x900	0	0.159 15.157	1.56	300 6.795 6.558 7.	7.065	6.775	2.87 0.2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.2	7.07	7.753	0.69	AG-3
1%	AG-3	Supp. Grassed Paved						< as above>		0	0.228		as above> 7.	7.696	7.453	3.16 0.2			7.77	7.753	0	AG-3
		Grassed	0 5			0.724																
		2.1203 Paved Supp. Grassed	0 5 0 0 100 10		10	0.731				0.731										3.47		PRE
1%	PRE	2.1203 Paved Grassed	<	as above	5 10	1.156				1.156										3.47		PRE
	BH-1	0.0117 Paved Supp.	100 5			0.007				0.007	0.007 4.45	1.01	250 7.501 7.456 7.	7.548	7.499	1.21			7.55	8.515		BH-1
1%	BH-1	0.0117 Paved Grassed	0 10	as above>	10 5 10	0.01				0.01	0.011		as above> 8	8.176	8.178	0.23			8.18	8.515		BH-1
	BJ-1	0.0339 Paved Supp.	100 5		5	0.019				0.019	0.02 2.45	1.02	250 7.094 7.069 7	7.223	7.219	0.78			7.22	8.072		BJ-1
1%	BJ-1	Grassed 0.0339 Paved	0 10	as above>	10 5	0.028				0.028	0.028 <		as above> 7.	7.425	7.426	0.62			7.43	8.072		BJ-1
	BYPASS	0.131 Paved	50 5		5	0.054				0.054										3.47		BYPASS
1%	BYPASS	Supp. Grassed 0.131 Paved	0 0 50 10	as above>	10	0.079				0.079										3.47		BYPASS
170		Grassed		25 2000	10							1.10	200						7.04			
	BK-1	Supp. Grassed	100 5 0 0 0 10		10	0.132				0.132	9.444	1.43	300 7.412 7.277							8.44		BK-1
1%	BK-1	0.23 Paved Grassed	<	as above>	5 10	0.192				0.192	<		as above>						8.27	8.44		BK-1
	Y-2	Paved Supp.						Junction Pit	JP 900x900	0	2.989	1	600 5.984 5.954			0.2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.0	6.3	7.855	1.55	Y-2
1%	Y-2	Grassed Paved Grassed						< as above>		0	<	*******	as above>			0.2			6.52	7.855	1.33	Y-2
	Y-3	Paved Supp.						Junction Pit	JP 900x900	0	2.71	1	600 5.804 5.777			0.2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.0	6.2	7.871	1.67	Y-3
1%	Y-3	Grassed Paved						< as above>		0	<		as above>			0.2			6.49	7.871	1.38	Y-3
	Y-4	Grassed Paved						Junction Pit	JP 900x900	0	25.165	1	600 5.747 5.495			1.46 A1-18	8 [A2-28 & A2-29]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 0.7	6.16	7.912	1.75	Y-4
1%	Y-4	Supp. Grassed Paved						< as above>		0	×		as above>			1.5				7.912		
	Y-5	Grassed						Junction Pit	JP 900x900	0	9.412		600 4.944 4.85				B [A2-28 & A2-29]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.4		6.792	4	Y-5
		Supp. Grassed							0L 900X900								(NZ-ZU & MZ-ZU)	Du / Do - 1.00, Qg / Q0 - 0.00, 5 / D0 = 1.4			-	
1%	Y-5	Paved Grassed						< as above>		0	<		as above>			1.9				6.792		
	Z-2	Paved Supp. Grassed						Junction Pit	JP 900x900	0	2.989	1	450 4.984 4.954			0.2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.0	5.29	7.486	2.19	Z-2
1%	Z-2	Paved Grassed						< as above>		0	<		as above>			0.2			5.33	7.486	2.15	Z-2
	Z-3	Paved Supp.						Junction Pit	JP 900x900	0	2.22	0.99	450 4.804 4.782			0.2	A1-5 [A2-4]	Du / Do = 1.00, Qg / Qo = 0.00, S / Do = 1.0	5.11	7.513	2.4	Z-3
1%	Z-3	Grassed Paved						< as above>		0	<		as above>			0.2			5.15	7.513	2.36	Z-3
	Z-4	Grassed Paved						Junction Pit	JP 900x900	0	9.87	1	450 2.399 2.3			3.75	A1-4 [A2-3]	H / Do = 1.1, Vo2 / (2gDo) = 0.24	3.75	7.533	3.79	Z-4
1%	Z-4	Supp. Grassed Paved						< as above>		0	<		as above>			3.8			4.24	7.533	3.29	Z-4
	OSD 1	Grassed				A-12 0.005 0.59	0.02															OSD 1
		Paved Supp. Grassed								0												
1%	OSD 1	Paved Grassed				A-12 0.008 0.69	0.03			0												OSD 1
	OSD 2	Paved Supp.				B-11 0.021 1.77	0.03			0												OSD 2
		Grassed																				

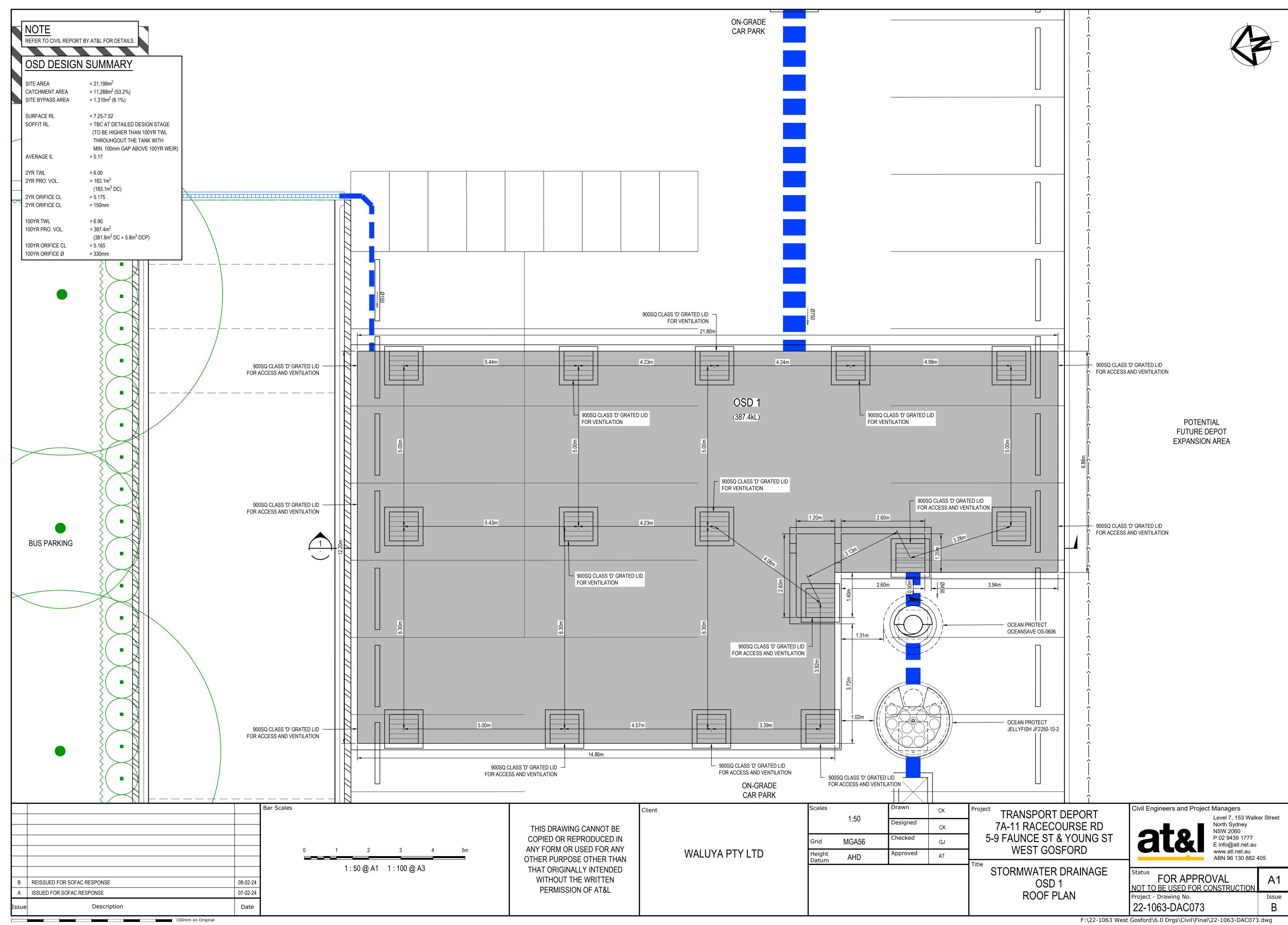
			Bar Scales	THIS DRAWING CANNOT BE	Client	Scales	NTS	Drawn Designed	CK	7A-11 RACECOURSE RD	Civil Engineers and Project Managers Level 7, 153 Walker Street North Sydney NSW 2060
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				ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN	WALUYA PTY LTD	Height Datum	AHD	Approved	AT	WEST GOSFORD	www.atl.net.au ABN 96 130 882 405
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В	REISSUED FOR SOFAC RESPONSE 08	08-02-24		WITHOUT THE WRITTEN						STORMWATER DRAINAGE	FOR APPROVAL A1 NOT TO BE USED FOR CONSTRUCTION
А	ISSUED FOR SOFAC RESPONSE 07	7-02-24		PERMISSION OF AT&L						CALCULATION	Project - Drawing No. Issue
Issue	Description	Date								SHEET 5 OF 6	22-1063-DAC068 B

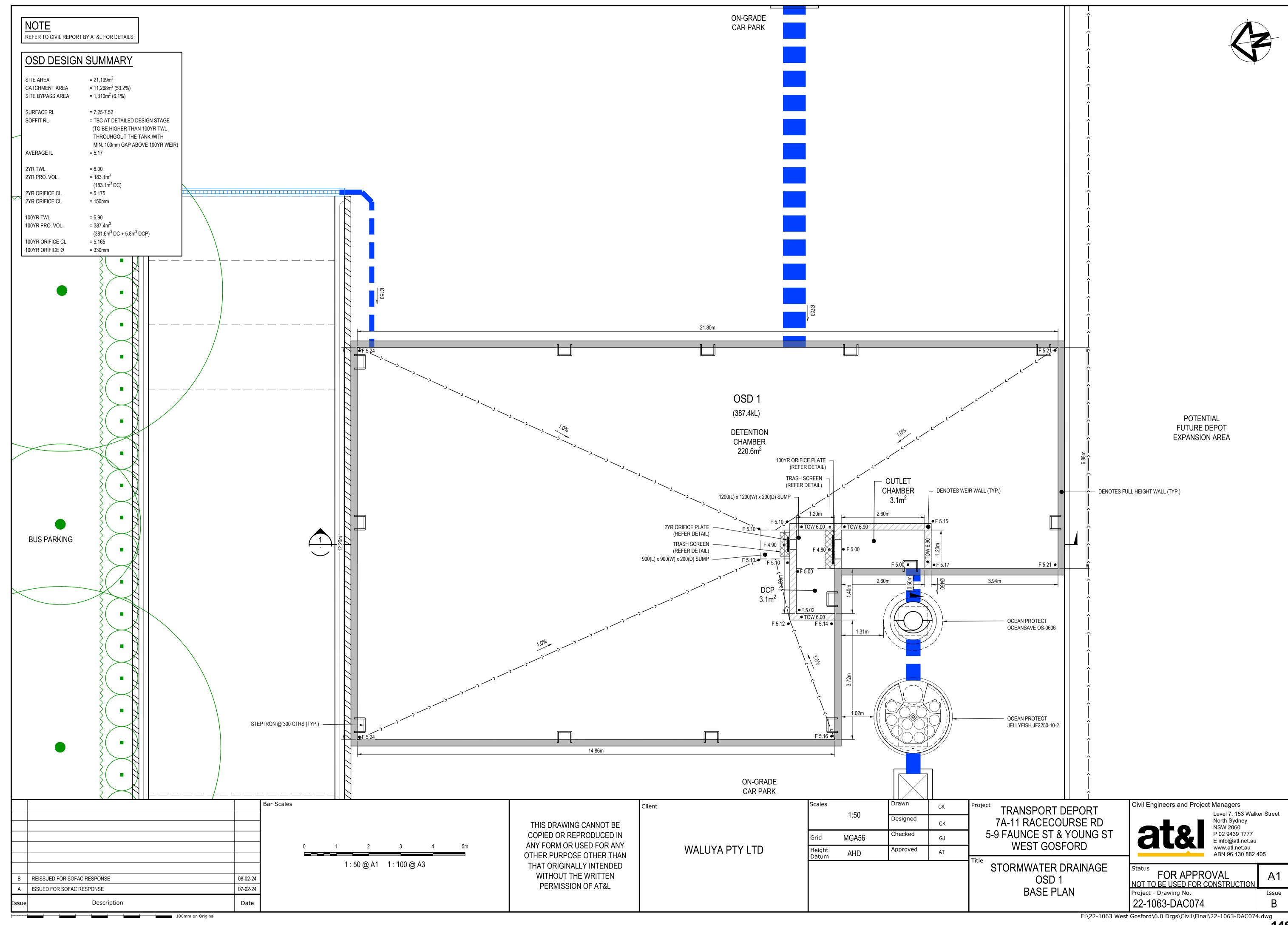
1% OSD 2 Paved B-11 0.03 1.99 Grassed	0.03			OSD 2
Bar Scales B REISSUED FOR SOFAC RESPONSE A ISSUED FOR SOFAC RESPONSE O7-02-24 Issue Description Date	THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	ient WALUYA PTY LTD	Scales NTS Designed CK Grid MGA56 Height Datum AHD Designed CK Checked GJ Approved AT Title STORMWATER DRAINA CALCULATION SHEET 6 OF 6	North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au ABN 96 130 882 405

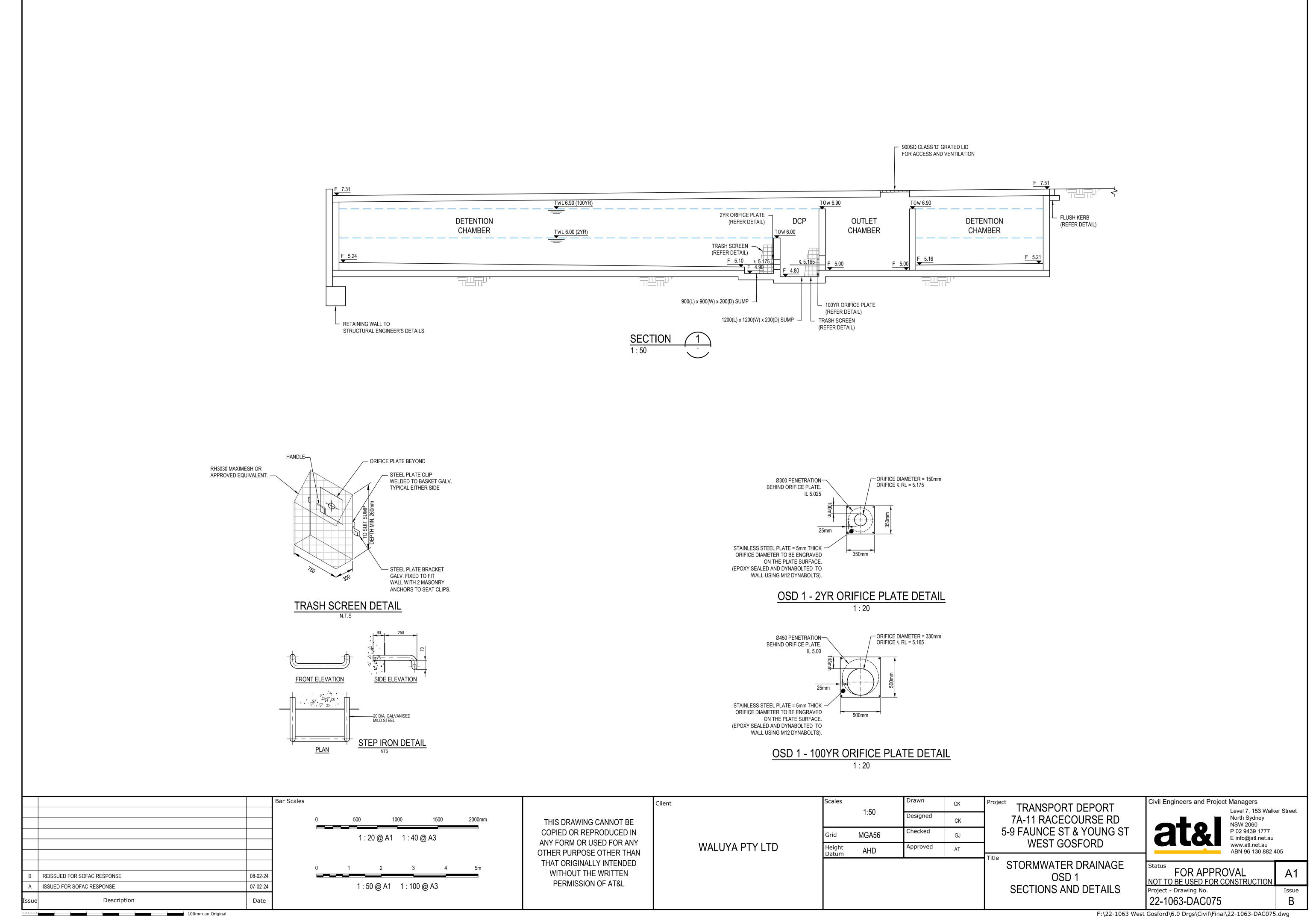


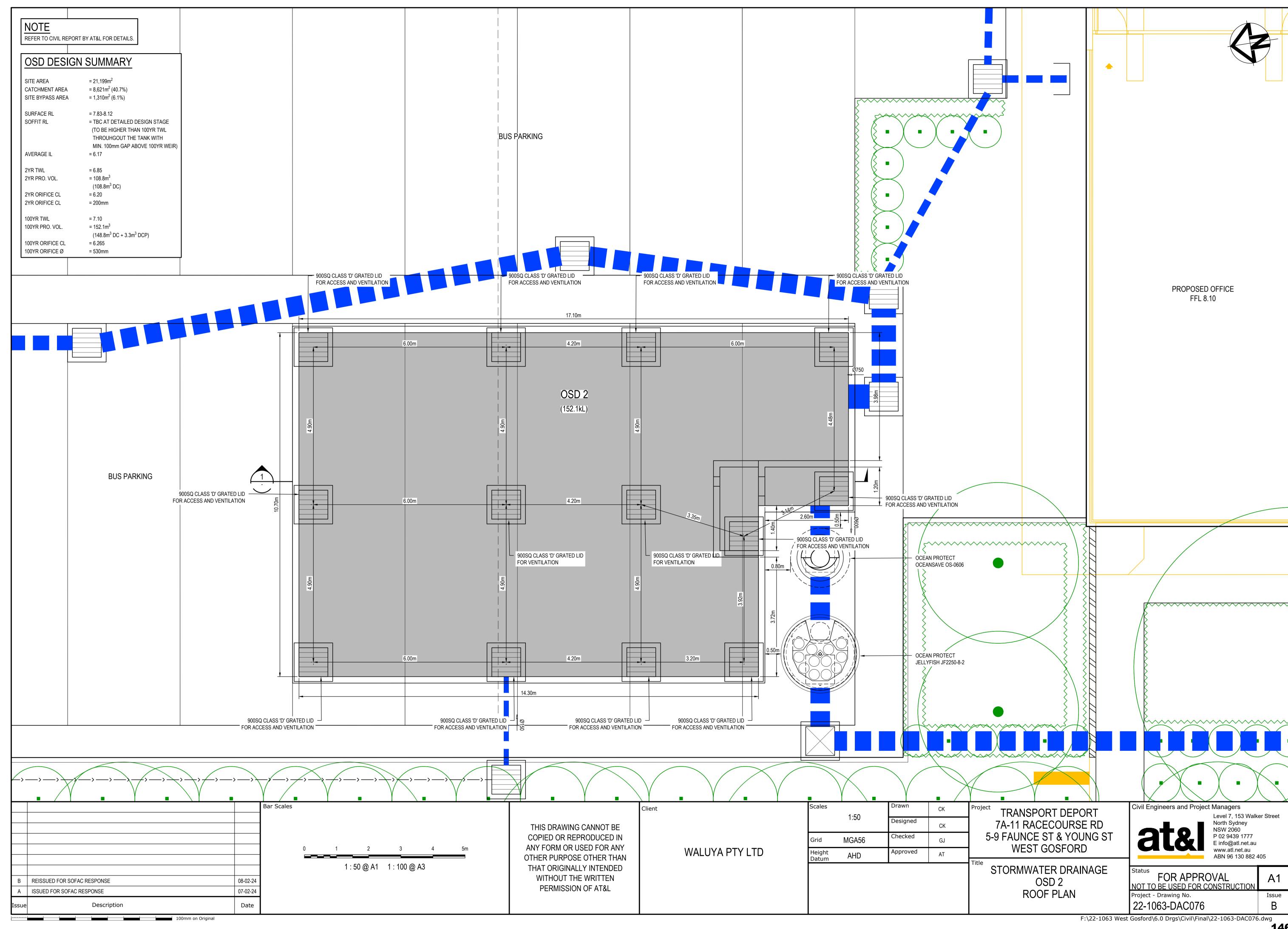


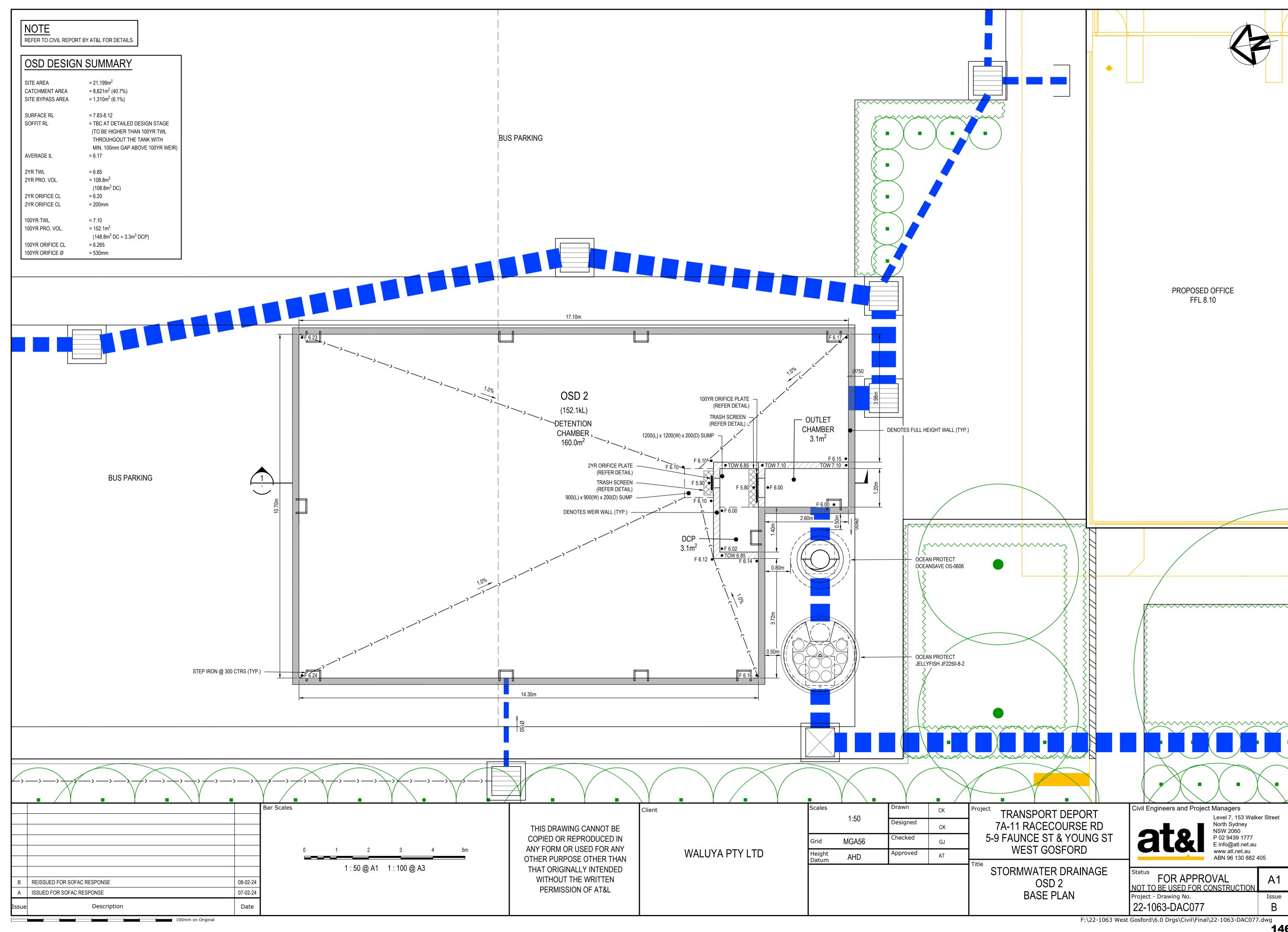


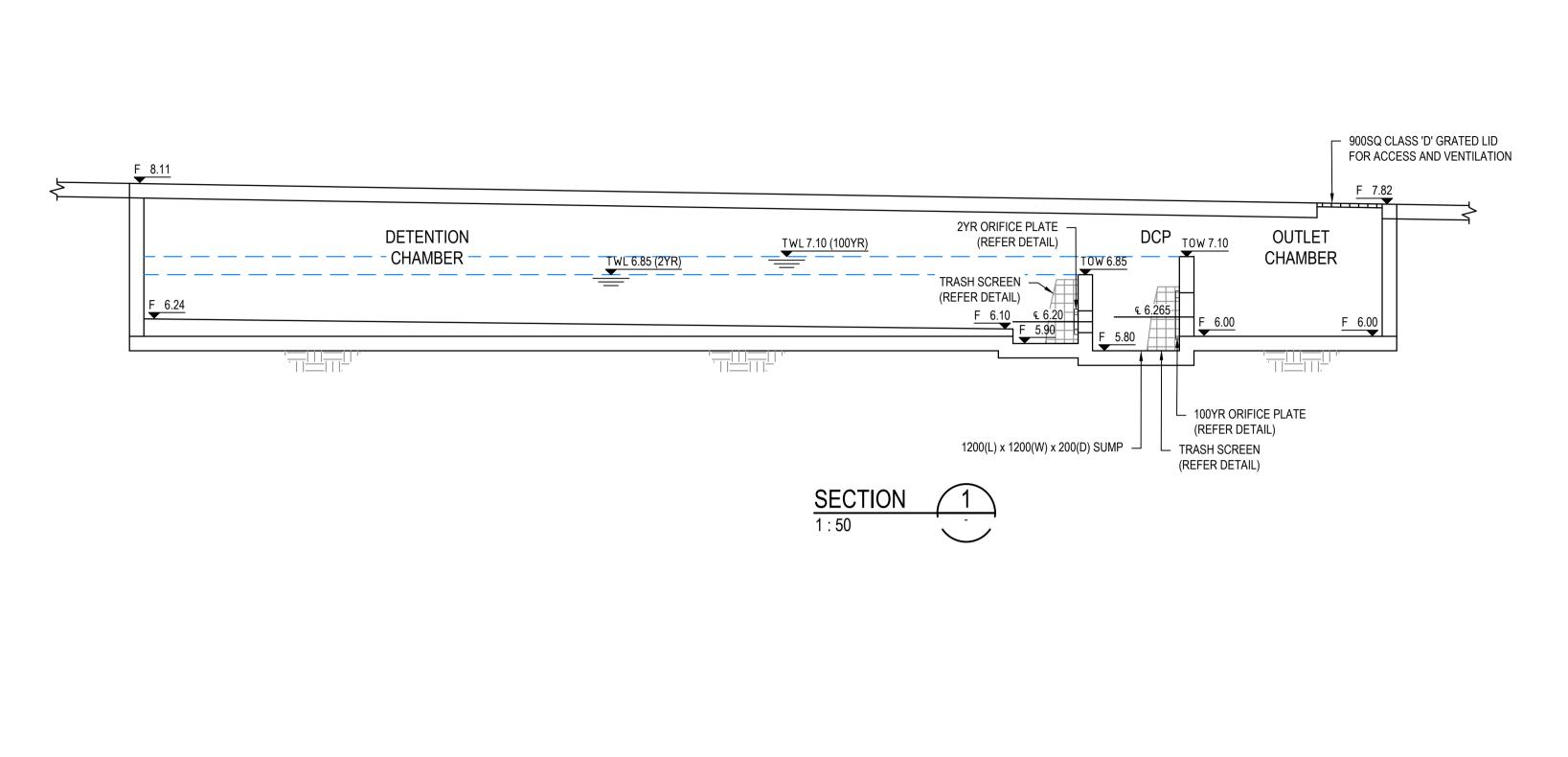


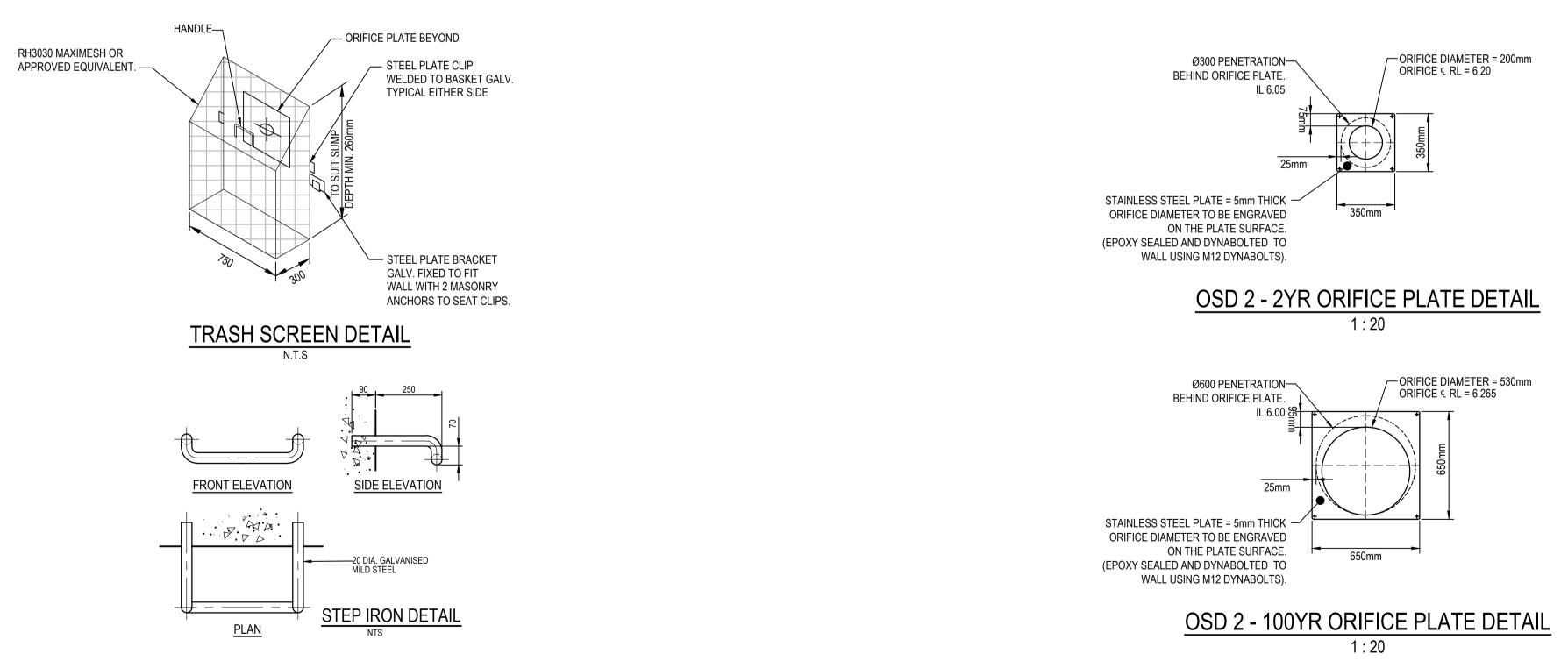




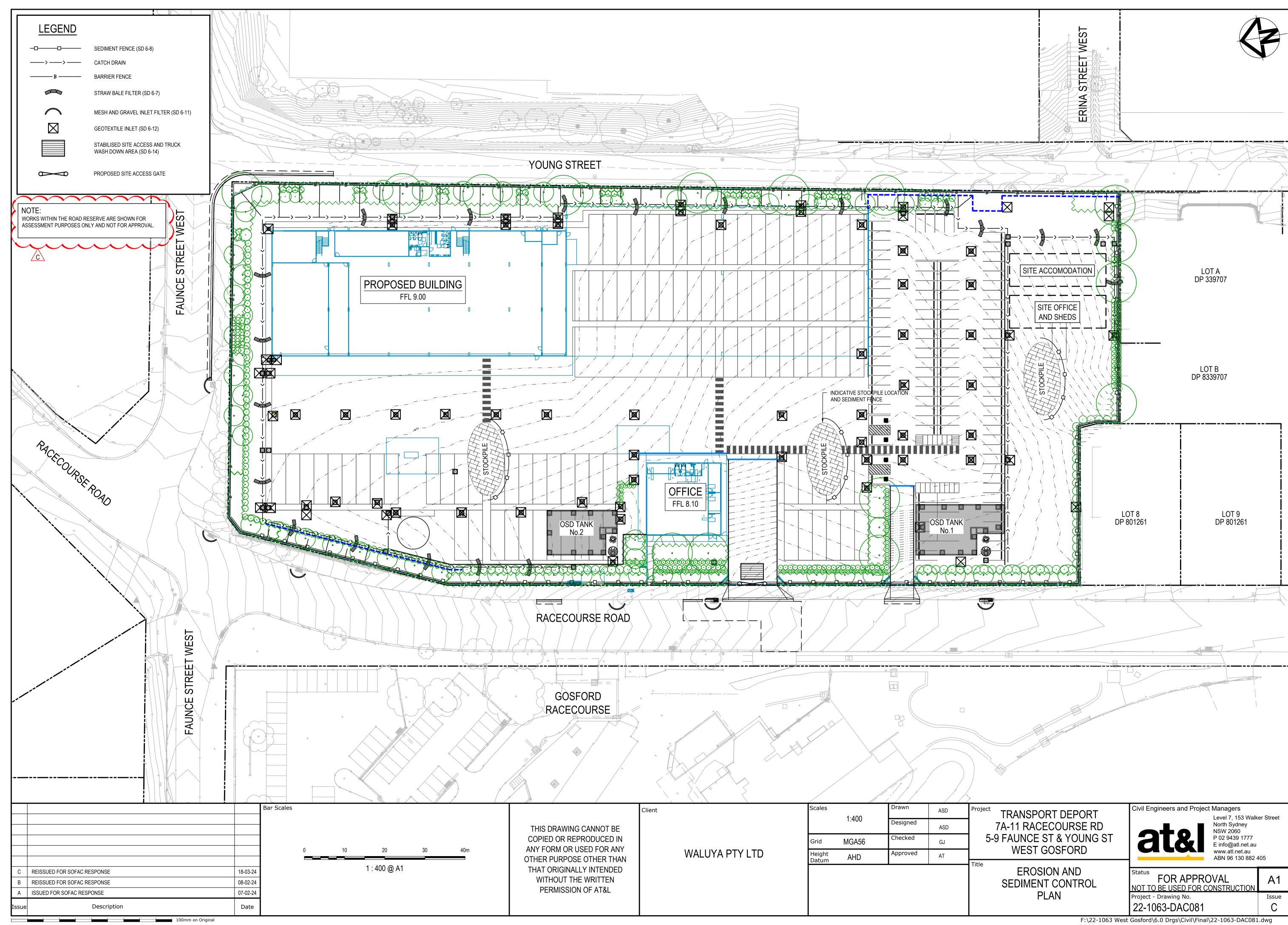


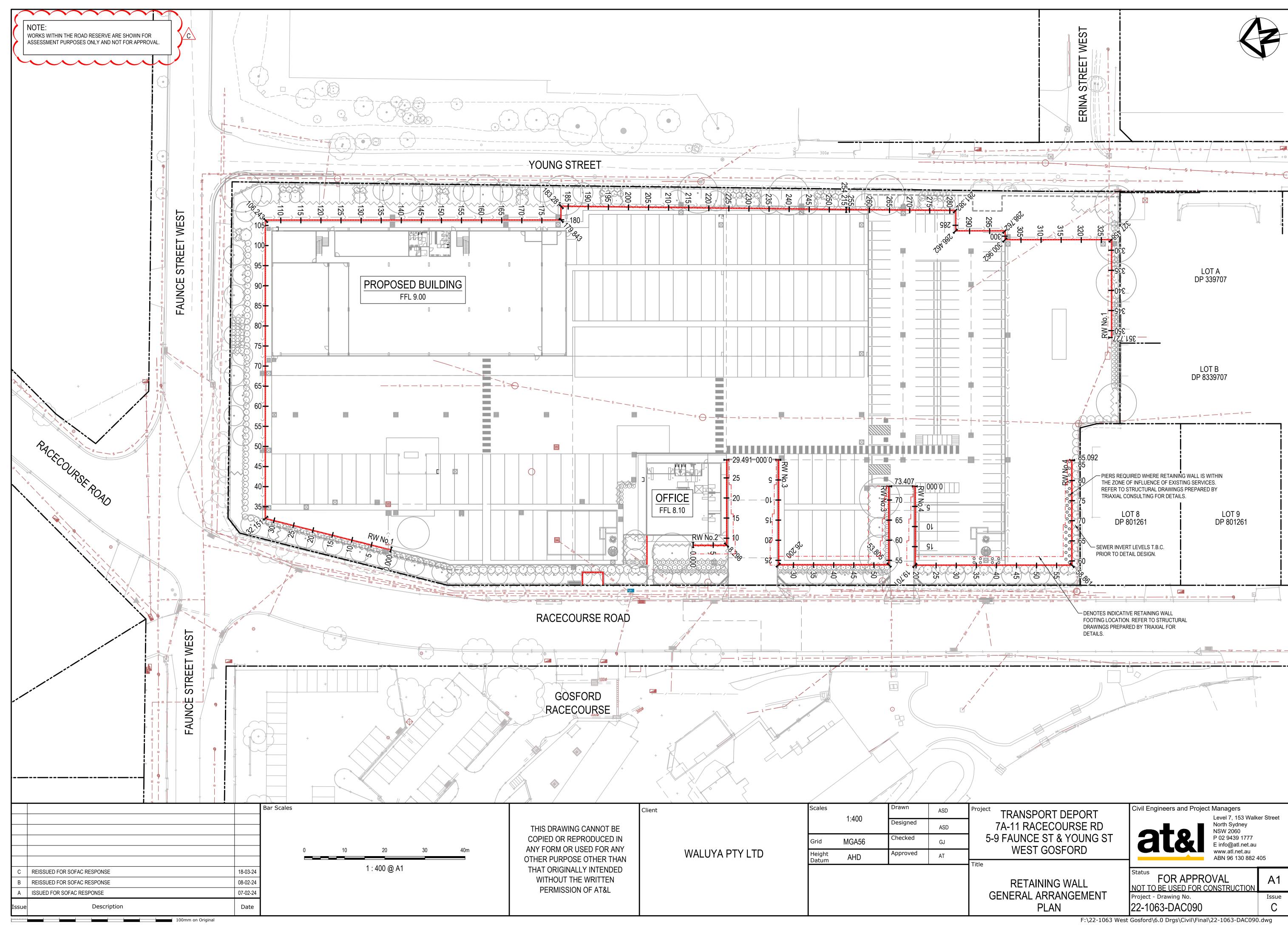






	Bar Scales		Client	Scales	S SHOWN	Drawn	СК	Project TRANSPORT DEPORT	Civil Engineers and Project Managers Level 7, 153 Wa	alker Street
	0 500 1000 1500 2000mm	THIS DRAWING CANNOT BE		Ao	2 SUOMN	Designed	СК	7A-11 RACECOURSE RD	North Sydney NSW 2060	
	1 : 20 @ A1 1 : 40 @ A3	COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY		Grid	MGA56	Checked	GJ	5-9 FAUNCE ST & YOUNG ST	E info@atl.net.a	au
		OTHER PURPOSE OTHER THAN	WALUYA PTY LTD	Height Datum	AHD	Approved	AT	WEST GOSFORD	www.atl.net.au ABN 96 130 882	
	0 1 2 3 4 5m	THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN						STORMWATER DRAINAGE	Status FOR APPROVAL	A1
B REISSUED FOR SOFAC RESPONSE 08-02-24 A ISSUED FOR SOFAC RESPONSE 07-02-24	1 : 50 @ A1	PERMISSION OF AT&L						OSD 2	NOT TO BE USED FOR CONSTRUCTION	
	1.50 @ A1 1.100 @ A5							SECTIONS AND DETAILS	Project - Drawing No.	Issue
Issue Description Date								E/22 1062 W-	22-1063-DAC078 st Gosford\6.0 Drgs\Civil\Final\22-1063-DAC07	B B





1469

Issue

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22-1063-DAC091

Project - Drawing No.

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Client

WALUYA PTY LTD

Scales ASD 1:500 H Designed 1:100 V ASD Checked MGA56 GJ Height Datum Approved ΑT AHD

TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD

RETAINING WALL

ELEVATIONS

Title

RETAINING WALL RW04 PROFILE

SCALE 1:500 HORI. 1:100 VERT.

Civil Engineers and Project Managers North Sydney NSW 2060 P 02 9439 1777 E info@atl.net.au www.atl.net.au

NOT TO BE USED FOR CONSTRUCTION

Level 7, 153 Walker Street ABN 96 130 882 405

FOR APPROVAL **A**1

SCALE 1:500 HORI. 1:100 VERT.

Bar Scales

08-02-24

07-02-24

Date

30

1:500 @ A1 1:1000 @ A3

1:100 @ A1 1:200 @ A3

50m

8.047 8.046 8.046 8.042 8.042

0.100 0.985 1.499 1.182 0.863 0.526

0.000 5.000 10.000 15.000 20.000 25.000

7.074 7.110 7.268 8.020 8.453 8.651



Datum RL0

TOP OF

HEIGHT OF

EXISTING

CHAINAGE

BOTTOM OF

RETAINING WALL

RETAINING WALL

RETAINING WALL

SURFACE LEVEL

REISSUED FOR SOFAC RESPONSE

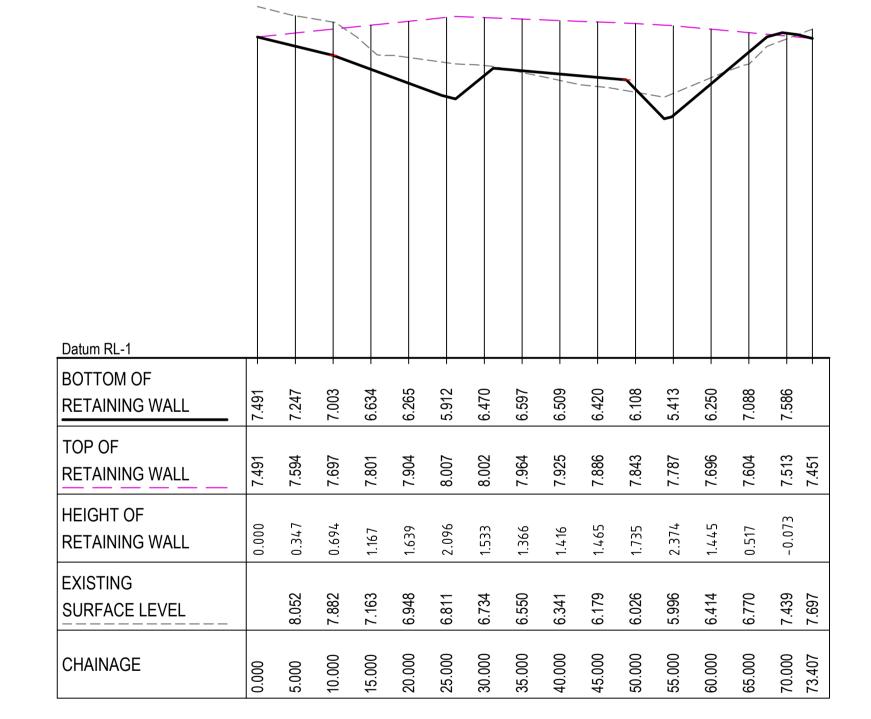
Description

ISSUED FOR SOFAC RESPONSE

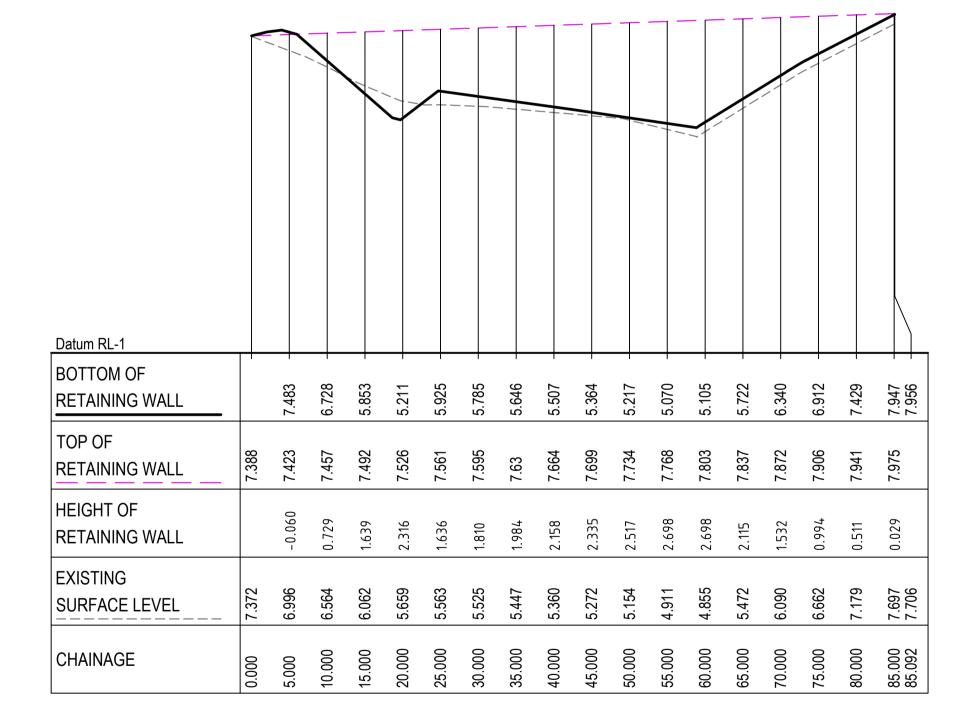


THIS DRAWING CANNOT BE

PERMISSION OF AT&L



148.2m TOP OF WALL TO MATCH EXISTING LEVELS RETAIN & PROTECT EXISTING TREE ROOTS

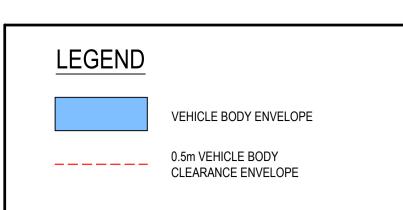


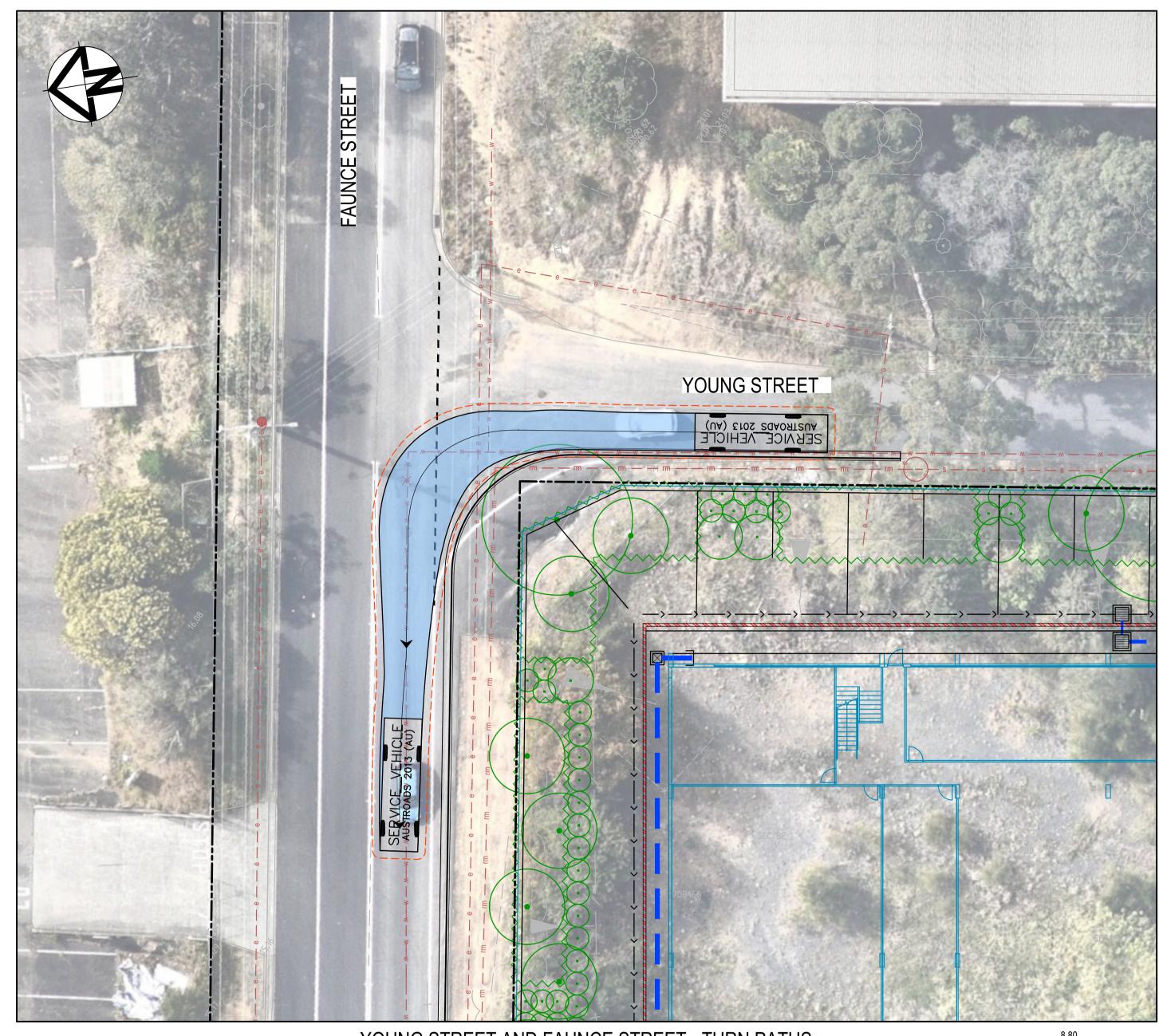
TOP OF WALL TO MATCH EXISTING LEVELS RETAIN & PROTECT EXISTING TREE ROOTS

RETAINING WALL DETAILS.

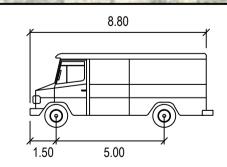


Datum RL-20																																																													
BOTTOM OF RETAINING WALL	8.700	8.715	8.730	8.746	8.761	8.776	8.791	8.824	8.846	8.868	8.889	8.911	8.933	8.967	8.982	8.993	8.970	8.953	8.981	986.8	8.969	8.951	8.934	8.917	668.8	8.916	8.934	8.934	8.907	8.881	8.943	8.981	8.967	8.929	8.891	8.815	8.778	8.740	8.702	8.662	8.561	8.510	8.459	8.408	8.357	8.360	8.410	8.460	8.510	8.462	8.394	8.473 8.516	8.610	8.753	8.895	9.038	9.181	9.198	9.163	9.128	9.093
TOP OF RETAINING WALL	9.519	9.545	9.765	10.021	10.252	10.497	10.697													15.179	14.531	14.601	14.625	14.567	14.539	14.49	14.487	14.54	14.493	14.378	14.322		15.165	15.141	15.101	15.048	14.971	14.925	14.913	14.839	14.703	14.612	14.635	14.534	14.437	14.289	14.133	14.033	13.935	14.624										9.639	
HEIGHT OF RETAINING WALL	0.819	0.830	1.034	1.276	1.491	1.720	1.906	1.915	1.849	1.677	1.659	1.624	1.814	4.970	5.049	5.271	5.765	6.200	6.245	6.193	5.562	5.650	5.691	5.650	5.640	5.574	5.553	5.606	5.586	5.498	5.420		6.198	6.212	6.210	6.195 6.199	6.193	6.185	6.211	6.177	6.143	6.102	6.177	6.127	6.080	5.978	5.723	5.573	5.425	6.163	5.633	3.861	3.327	3.165	3.123	3.132	3.072	1.579	0.841	0.511	0.372
EXISTING SURFACE LEVEL	9.520	9.534	9.753	10.011	10.242	10.492	10.693	10.728	10.687	10.537	10.543	10.529	10.744	13.929	14.023	14.262	14.734	15.160	15.219	15.615	15.091	15.063	14.857	14.622	14.387	13.944	13.792	13.110	12.949	13.008	12.607	12.453	13.907	13.759	13.518	13.239	12.649	12.510	12.453	12.419	12.736	14.131	14.811	15.615	15.715	15.640	15.484	15.450	15.322	15.131	13.934	12.240 11.966	11.933	11.914	12.007	12.143	12.283	11.200	10.491	10.113	9.856 9.717
CHAINAGE																																																			290.000									345.000	
	•																																																			NO 1	OTE:		ructur	JRAL ENG	GINEERS I		G FOR AI	LL	



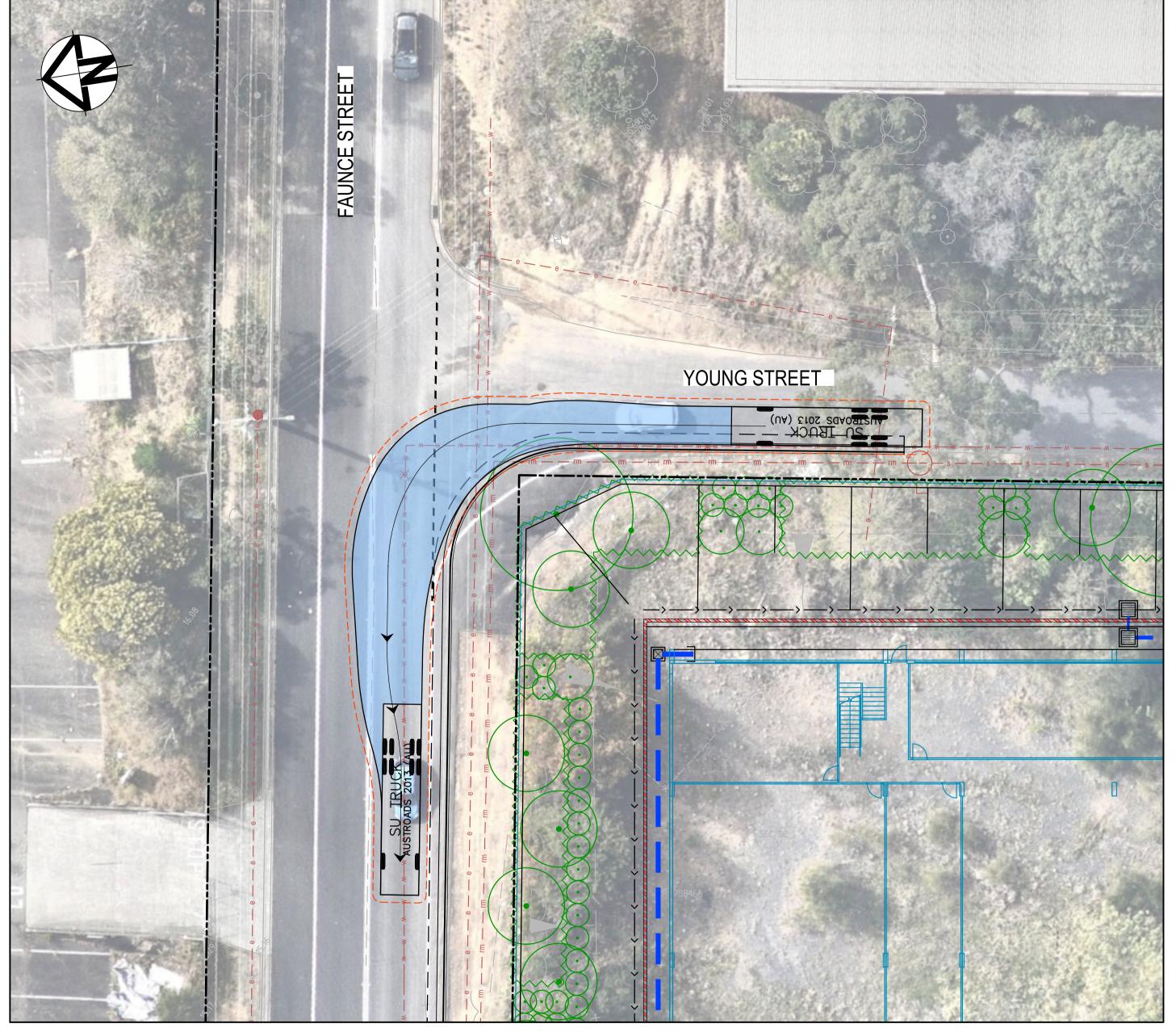




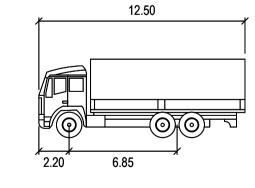


SERVICE VEHICLE meters
: 2.50
: 2.50
: 6.0
: 38.7

Width Track Lock to Lock Time Steering Angle



YOUNG STREET AND FAUNCE STREET - TURN PATHS 12.5m HRV (CHECK VEHICLE)
SCALE 1:200



12.5m TRUCK

WIDTH	
TRACK	
LOCK TO LOCK TIME	
STEERING ANGLE	

: 2.50 : 2.50 : 6.0

			Bar Scales					
				0	5	10	15	20r
					4 - 000	2.44 4.	400 0 40	
					1:200 (@ A1 1:	400 @ A3	
Α	ISSUED FOR SOFAC RESPONSE	18-03-24						
Issue	Description	Date						

100mm on Original

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Client

WALUYA PTY LTD

Scales	1,200	Brawn	ASD	J۲
	1:200	Designed	ASD	
Grid	MGA56	Checked	GJ	
Height Datum	AHD	Approved	AT	L
Datuiii			1	1 -

TRANSPORT DEPORT 7A-11 RACECOURSE RD 5-9 FAUNCE ST & YOUNG ST WEST GOSFORD

PLAN

TURNING PATH

_	_
	Level 7, 153 Walker Street
	■ North Sydney
	NSW 2060
	P 02 9439 1777
	E info@atl.net.au
	www.atl.net.au
	ABN 96 130 882 405
Status	

Civil Engineers and Project Managers

FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION Project - Drawing No.

22-1063-DAC100

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