

OAKDALE CENTRAL - STAGE 2

ESTATE ROAD EXTENSION

CIVIL WORKS PACKAGE

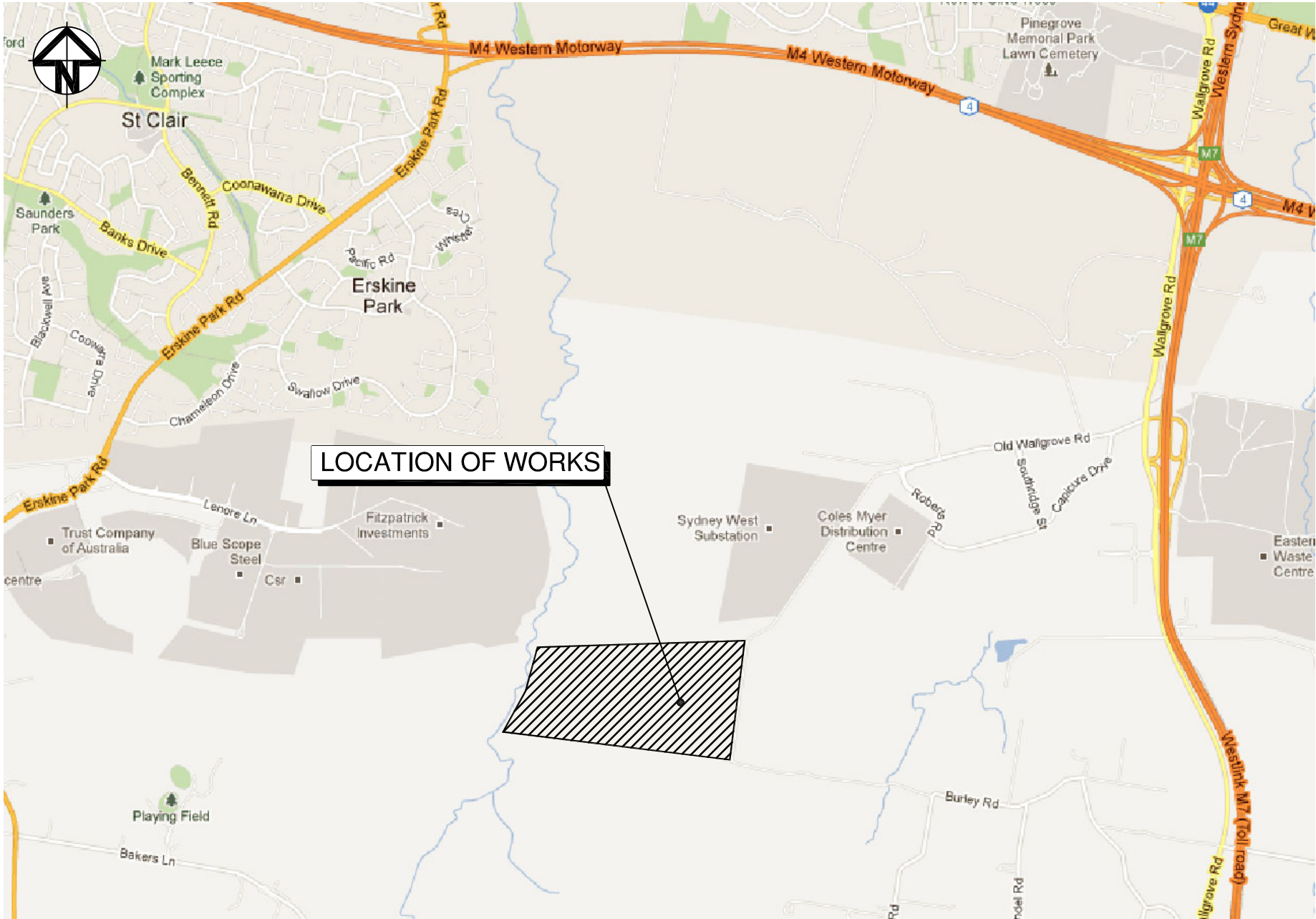
S75W MOD 5 APPLICATION

DRAWING LIST



DWG No.	DRAWING TITLE
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C003	TYPICAL SECTIONS SHEET 2
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DWG No.	DRAWING TITLE
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C078	STORMWATER CATCHMENT PLAN
C080	CULVERT CROSSING DETAILS SHEET 1
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C082	CULVERT CROSSING DETAILS SHEET 3
C100	SEDIMENTATION AND EROSION CONTROL PLAN SHEET 1
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LOCALITY PLAN
NTS

		Bar Scales	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 <div></div>	Scales		Drawn	MM	Project <div>OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION</div>	Civil Engineers and Project Managers <div></div> <div>Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au</div>	
					NTS	Designed	MM				
					Grid	MGA	Checked	AMcL			
					Height Datum	AHD	Approved				
								Title <div>COVER SHEET</div>			Status <div>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</div>
B	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12							Drawing No. C000	Project No. 12-79	Issue B
A	ISSUED FOR S75W APPROVAL	25/06/12									
Issue	Description	Date									

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.T.A. SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNBOUND), R.T.A. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
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 50m² 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.T.A. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

SURVEY NOTES

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

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


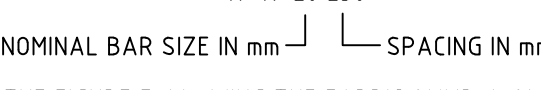
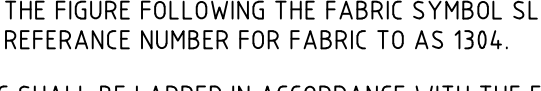
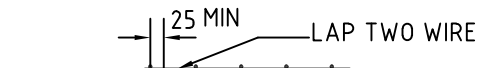
THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

IMPORTANT NOTE:
THIS PLAN IS PREPARED FROM A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS ON THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED BY THE AUTHOR AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD MEASUREMENT.
A SERVICES SEARCH OF THE AREA SURVEYED ABOVE HAS NOT BEEN UNDERTAKEN. VISIBLE SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES. THIS NOTE IS AN INTEGRAL PART OF THIS PLAN.

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 AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
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: 
NOMINAL BAR SIZE IN mm: 
SPACING IN mm: 
THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERENCE NUMBER FOR FABRIC TO AS 1304.
 8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:


EXISTING UNDERGROUND SERVICES NOTES

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

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

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

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



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

KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.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.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 600mm WIDE U.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.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
(A) AVERAGE RECURRENCE INTERVAL:
1:100 YEARS ROOFED AREAS TO SURCHARGE PIT
1:5 YEARS EXTERNAL PAVEMENTS
(B) RAINFALL INTENSITIES:
TIME OF CONCENTRATION: 5 MINUTES
1:100 YEARS = 220 mm/hr
1:5 YEARS = 134 mm/hr
(C) RUNOFF COEFFICIENTS:
ROOF AREAS: C₁₀₀ = 1.0
EXTERNAL PAVEMENTS: C₁₀₀ = 1.0
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.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 IN HEIGHT.
6. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (1998) 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 (1998).
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.
10. 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.
13. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
14. 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.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

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

LAND DISTURBANCE

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

EROSION CONTROL

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

SEDIMENT CONTROL

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

OTHER MATTERS

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



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

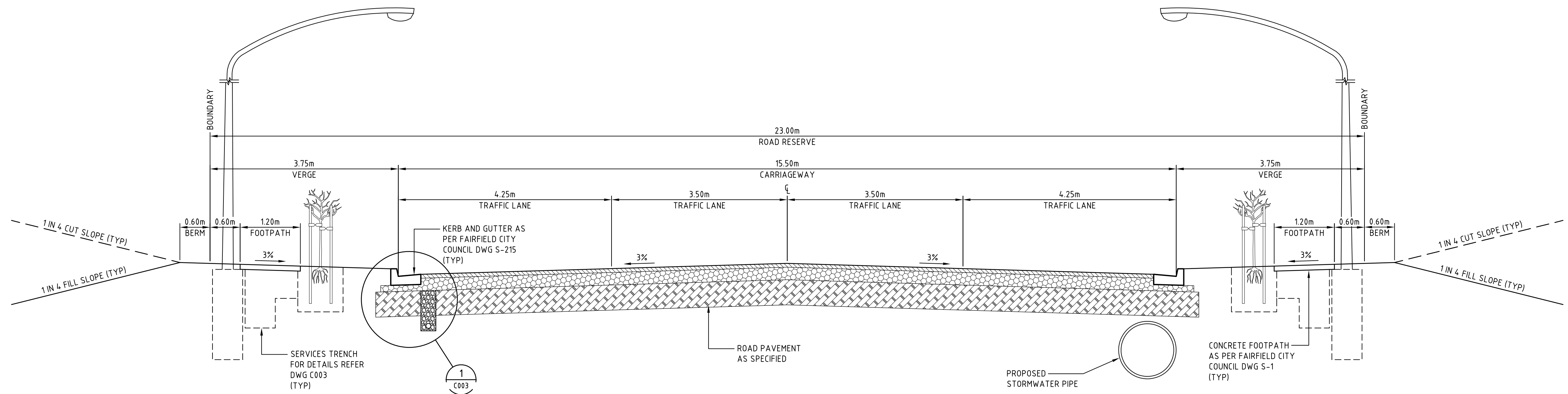
LOCATION	STANDARD DRY DENSITY (AS 1289 5.1.1)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%
5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER)
7. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN -:-
(A) 1 TEST PER 200m² OF FILL PLACED PER 300 LAYER OF FILL.
(B) 3 TESTS PER VISIT
(C) 1 TEST PER 1000m² OF EXPOSED SUBGRADE
TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798 (2007).
8. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS
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.

EMBANKMENT CONSTRUCTION SEQUENCE

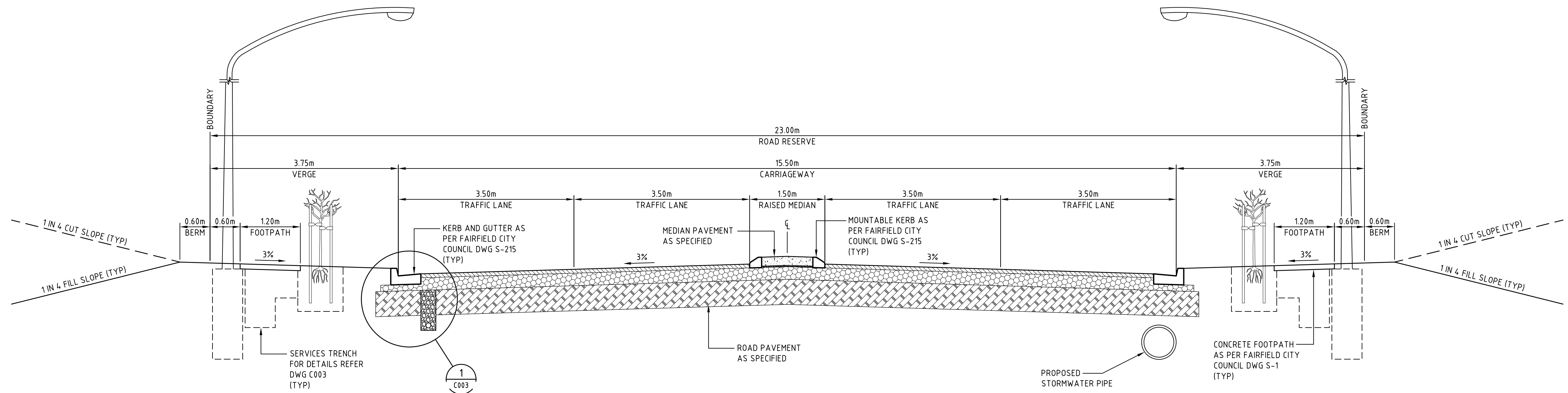
1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SLUSH, GROUTING AND DENTAL CONCRETE MAY BE REQUIRED, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
4. COMPACT CLAY STABILIZED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289 5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILIZED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289 5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILIZE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMATIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

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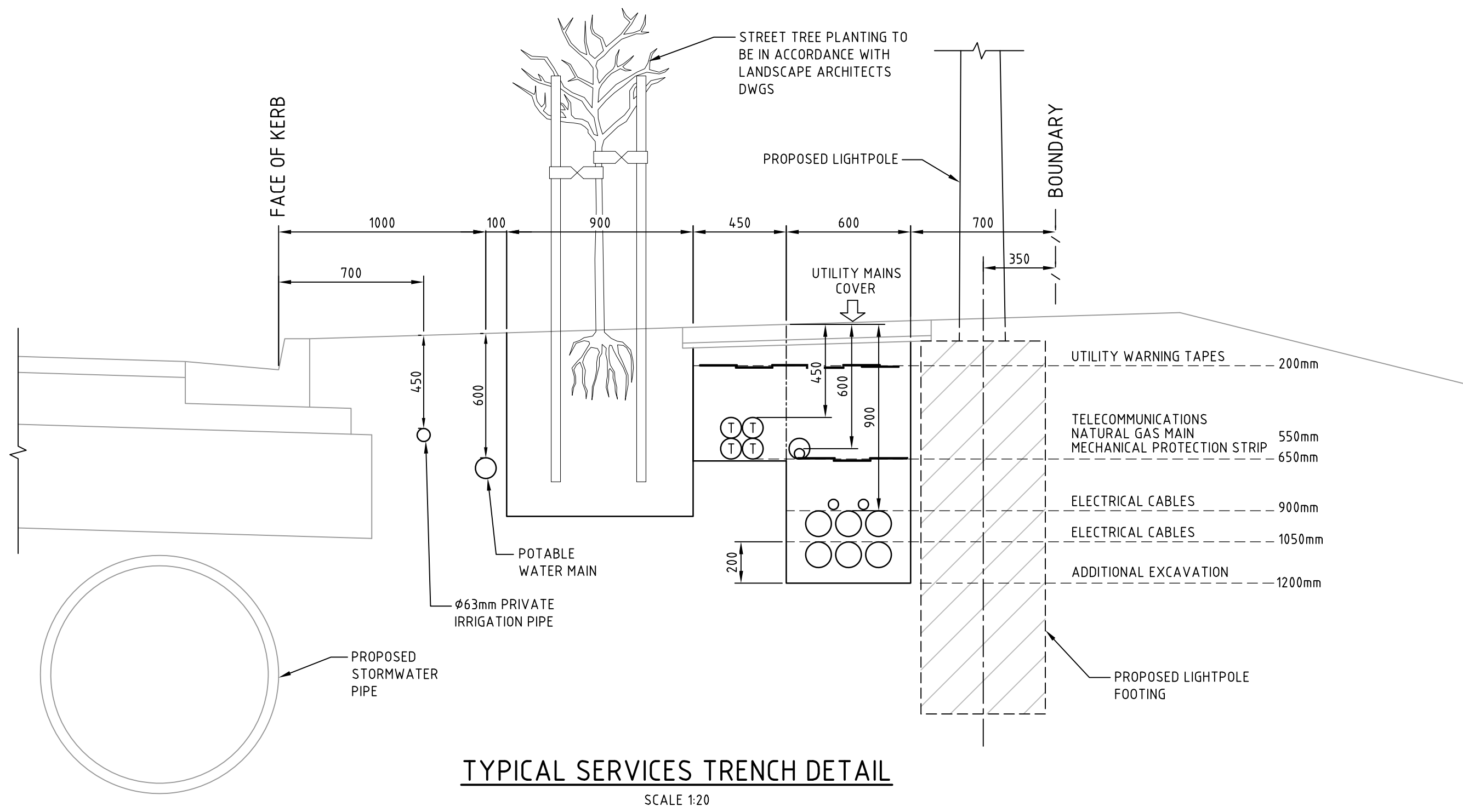


TYPICAL SECTION - ESTATE ROAD
CH 240 TO CH 585
CH 650 TO 685
SCALE 1:50

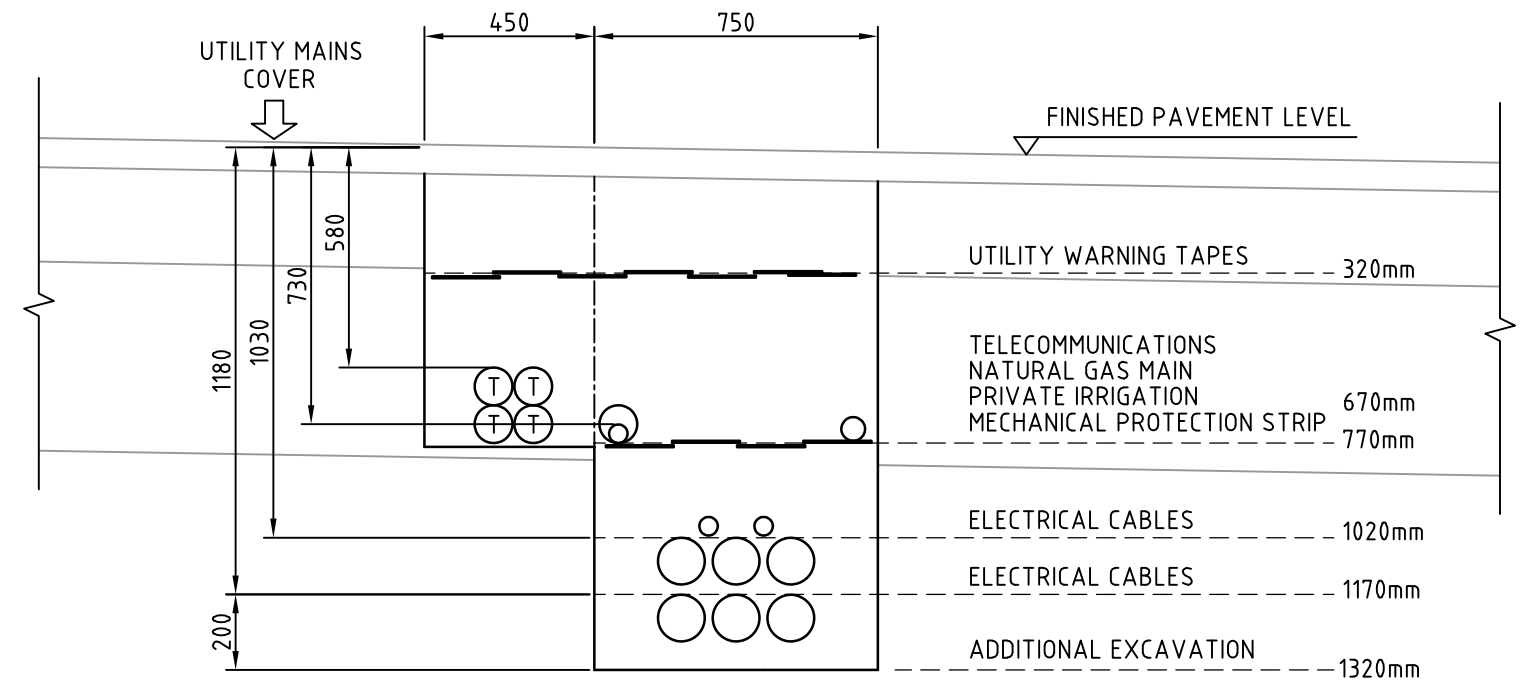


TYPICAL SECTION - ESTATE ROAD
CH 585 TO CH 650
SCALE 1:50

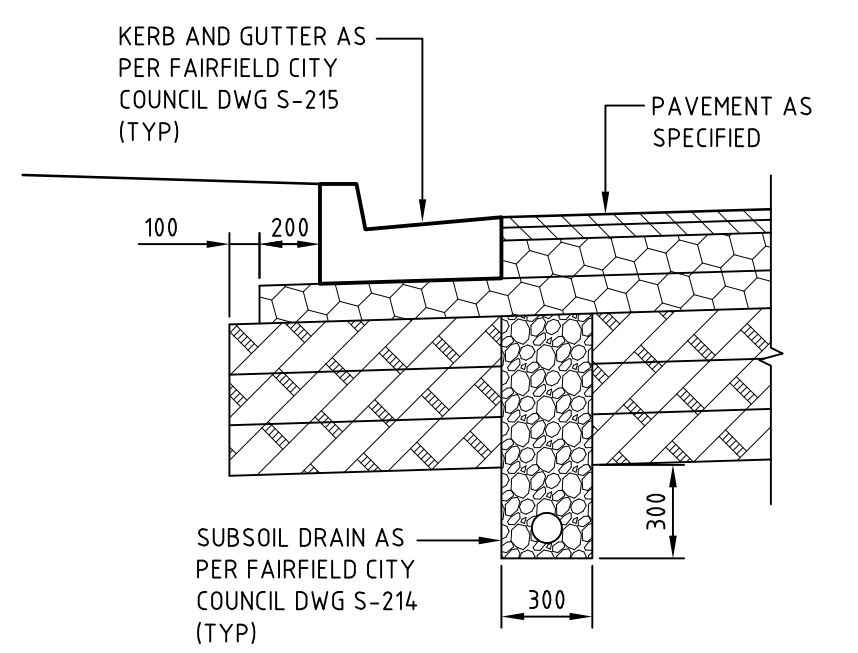
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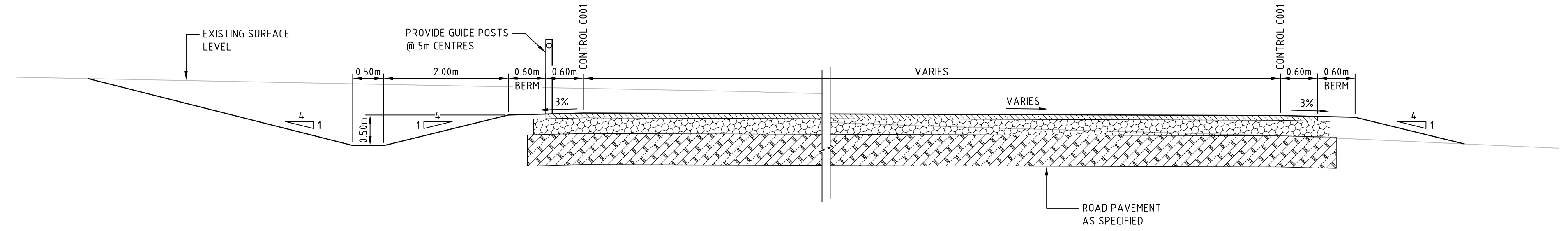
TYPICAL SERVICES TRENCH DETAIL
SCALE 1:20



TYPICAL ROAD CROSSING SERVICES
TRENCH DETAIL
SCALE 1:20

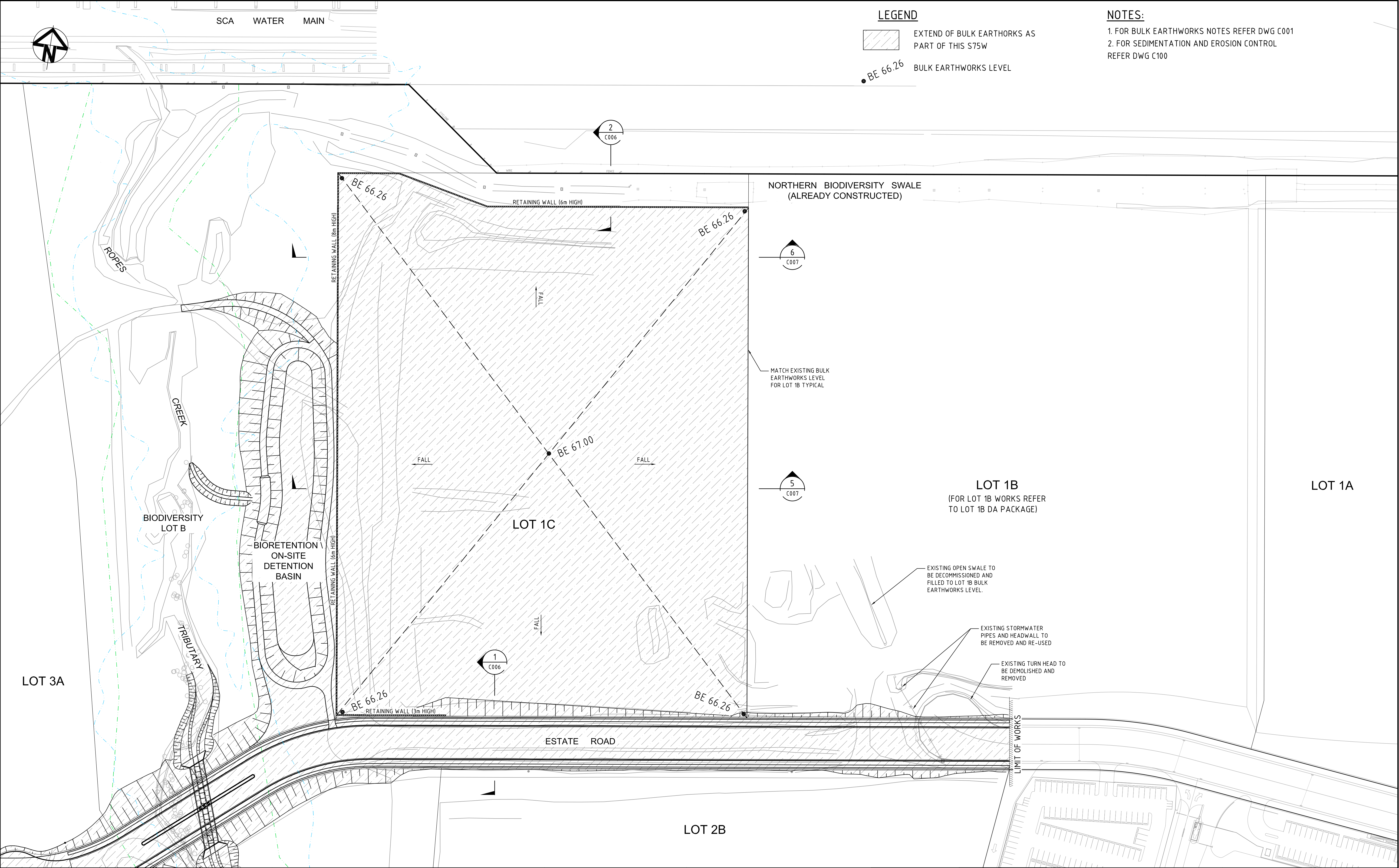


DETAIL 1
1: 25



TYPICAL SECTION - TURN HEAD
SCALE 1:50

			<div>Bar Scales</div> 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C	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
B	RE-ISSUED FOR S75W APPROVAL	03/07/12
A	ISSUED FOR S75W APPROVAL	25/06/12

Issue	Description	Date

Bar Scales

0 20 40 60 80m

1 : 800

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Client

Goodman

Scales	1 : 800
Grid	MGA
Height Datum	AHD

Drawn	MM
Designed	MM
Checked	AMcL
Approved	

Project

OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION

Title

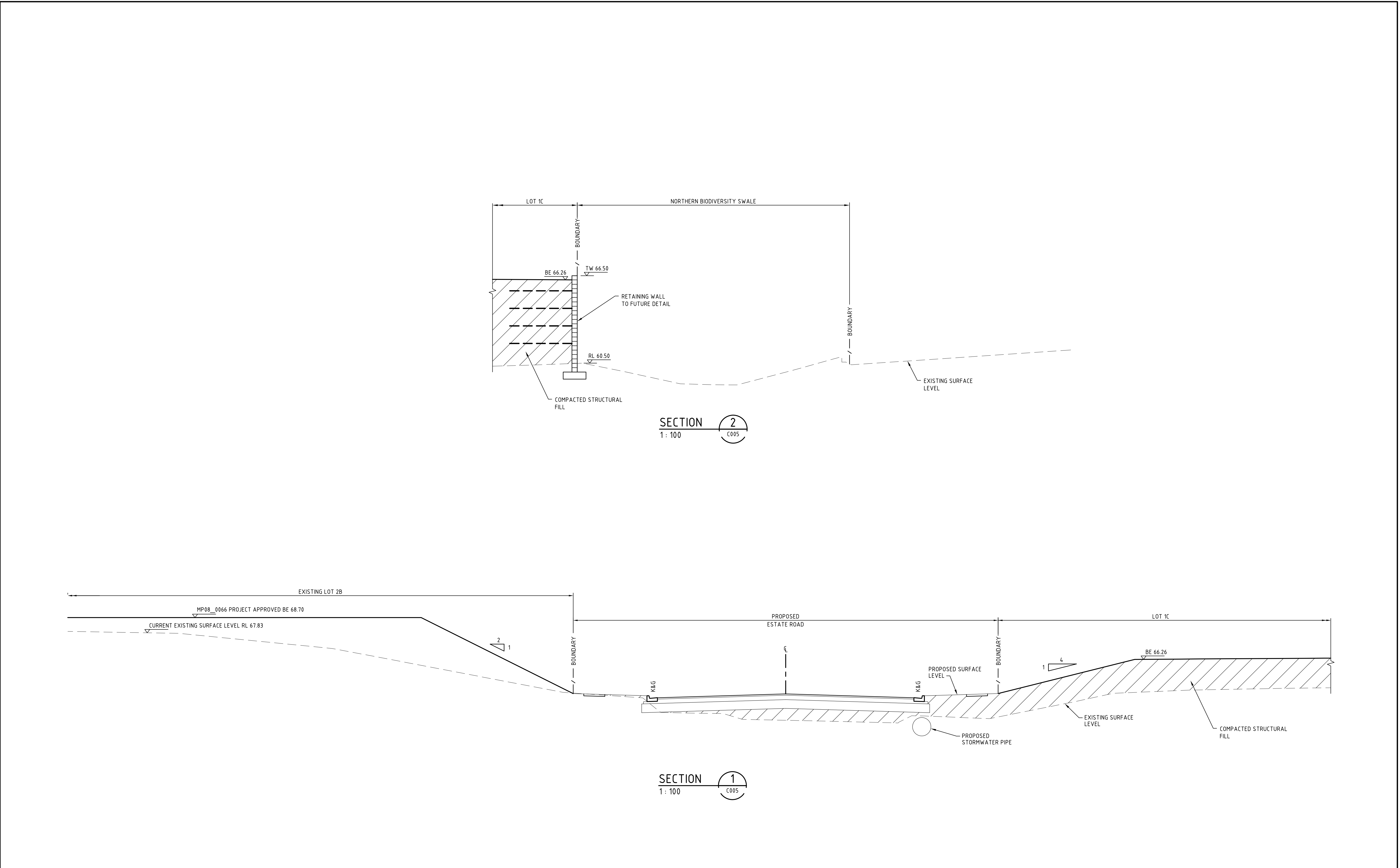
BULK EARTHWORKS PLAN



Civil Engineers and Project Managers

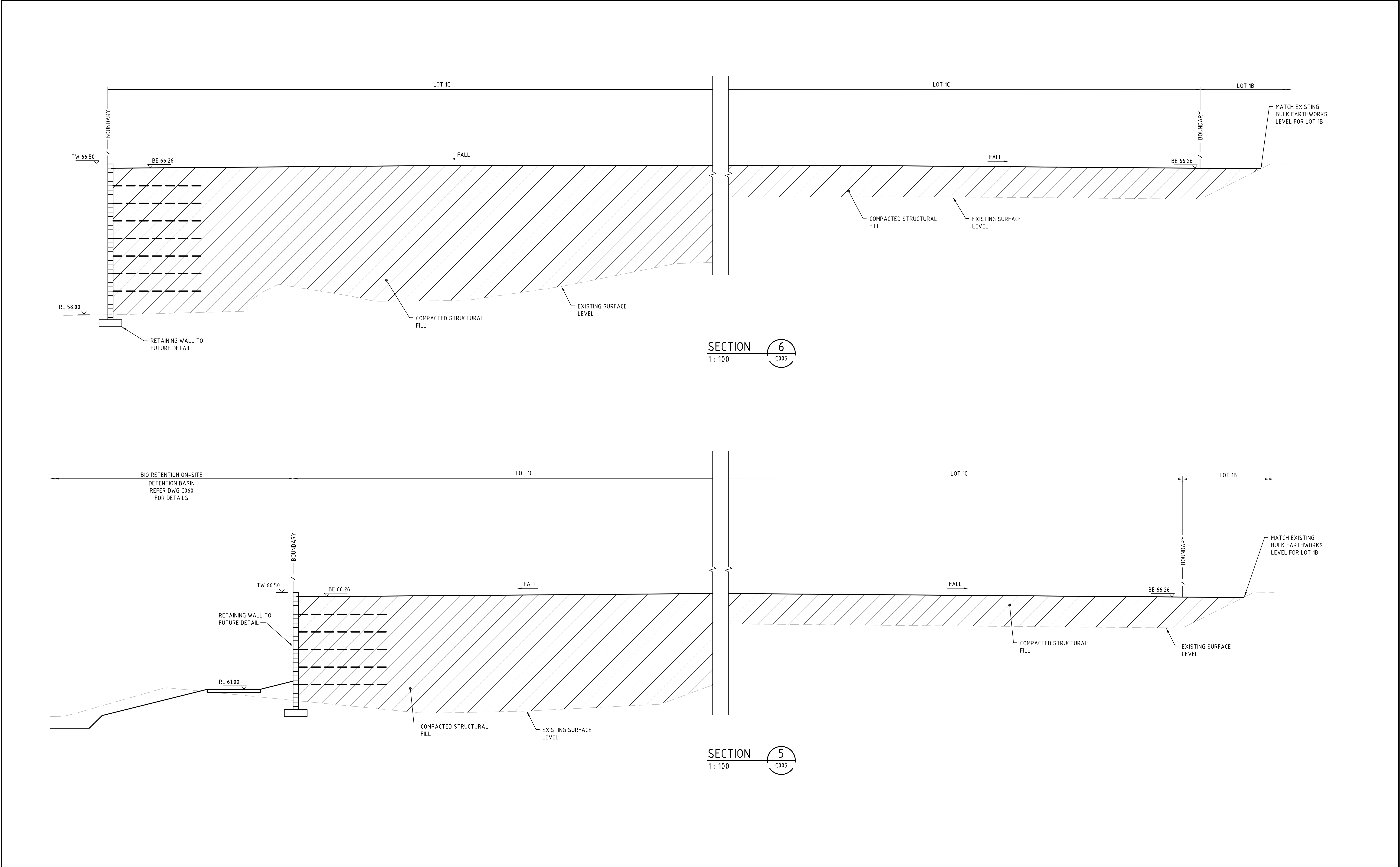
AT&L





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ABN 96 130 882 405
Tel: 02 8920 2466
Fax: 02 9922 5102
www.atl.net.au
info@atl.net.au

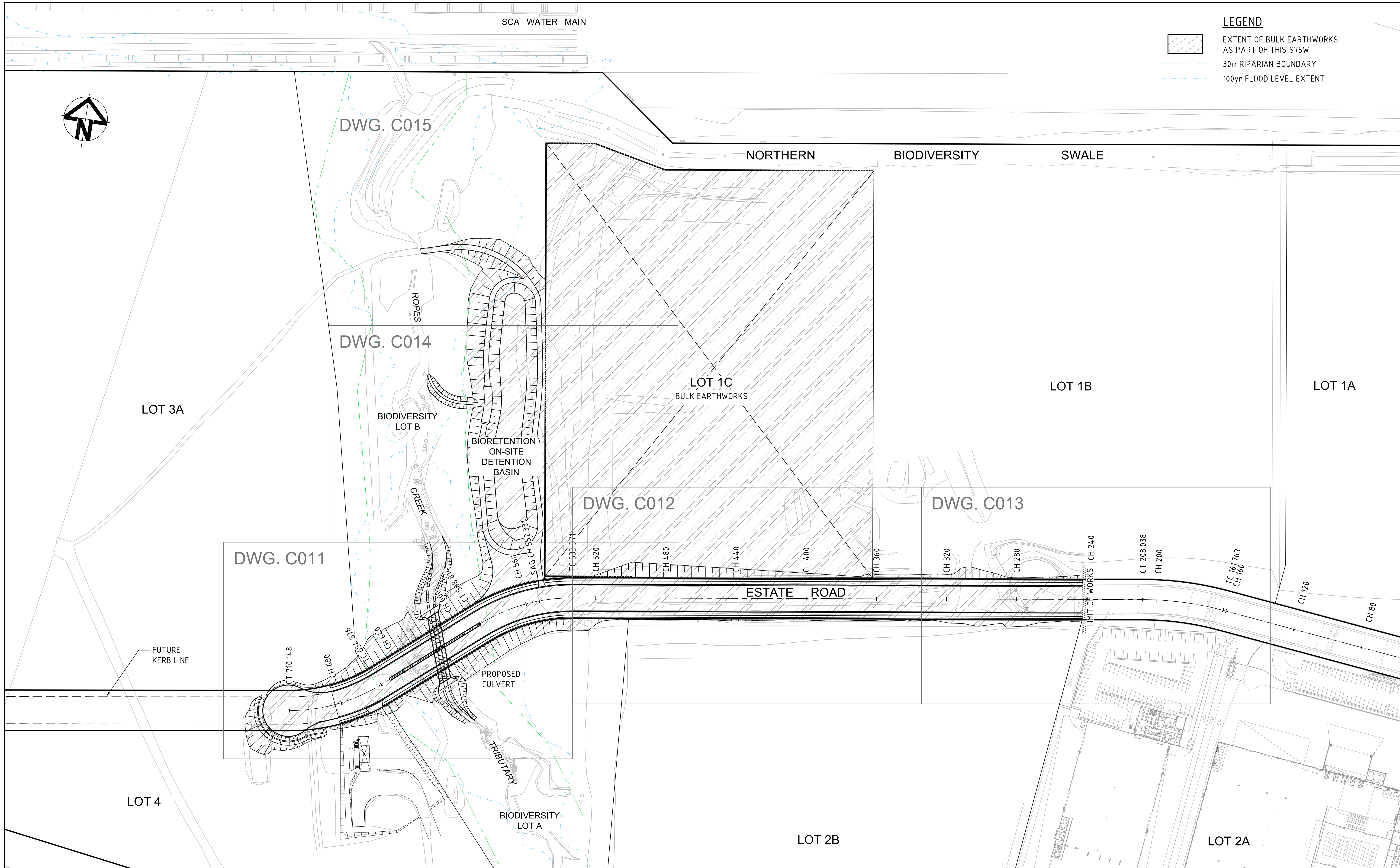
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	Project No.	Issue
C005	12-79	C



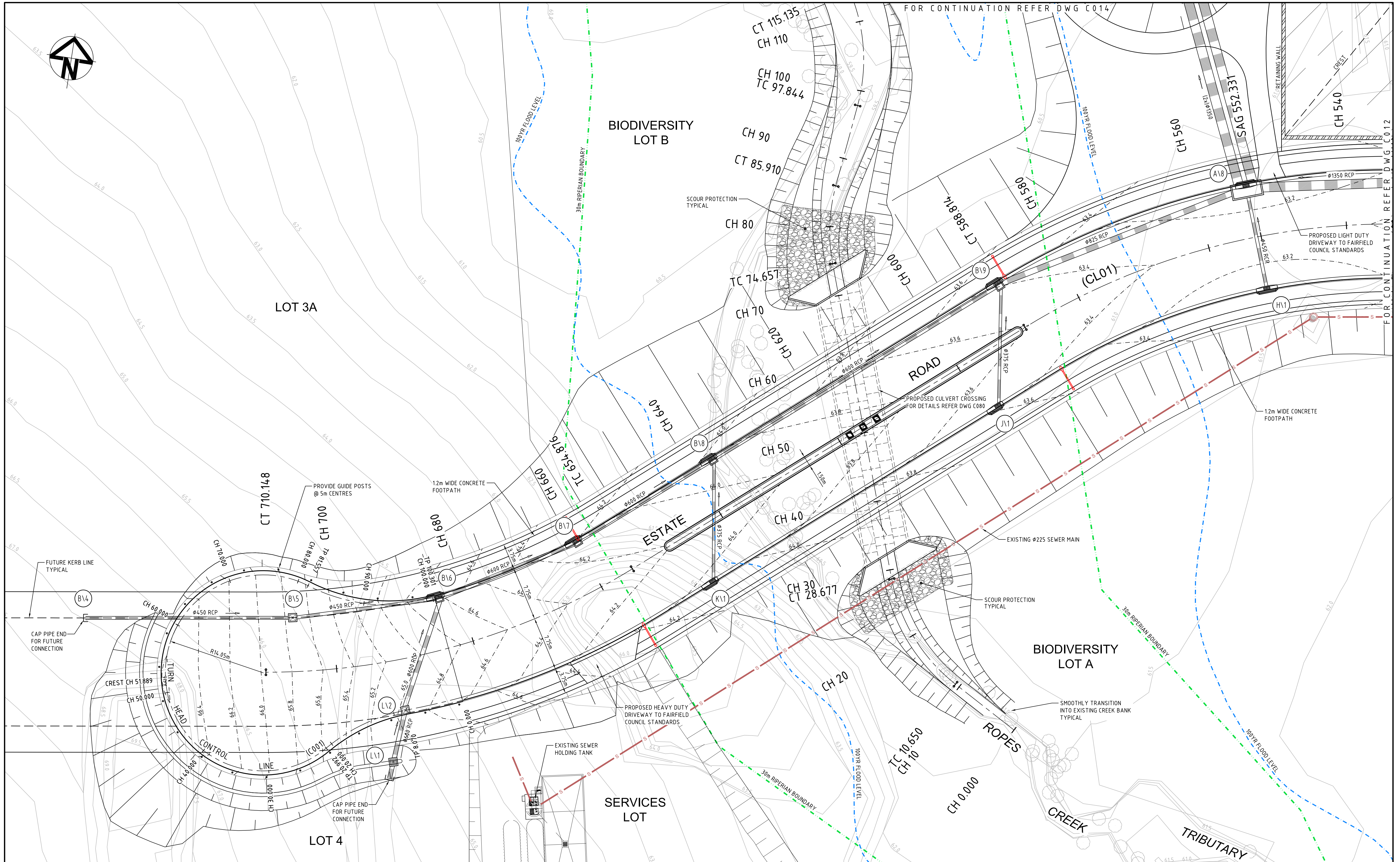
		Bar Scales		THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	<div>Client</div> <div></div>	Scales		Drawn		TS		Project	Civil Engineers and Project Managers  Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au						
		1 : 100				Designed		TS											
						Grid MGA		Checked		AMcL									
						Height Datum AHD		Approved											
C	ISSUED FOR \$75W MOD 5 APPLICATION	11/10/12												Title		BULK EARTHWORKS SECTIONS SHEET 1		Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	
B	RE-ISSUED FOR \$75W APPROVAL	03/07/12												Drawing No. C006		Project No. 12-79		Issue C	
A	ISSUED FOR \$75W APPROVAL	25/06/12																	
Issue	Description	Date																	



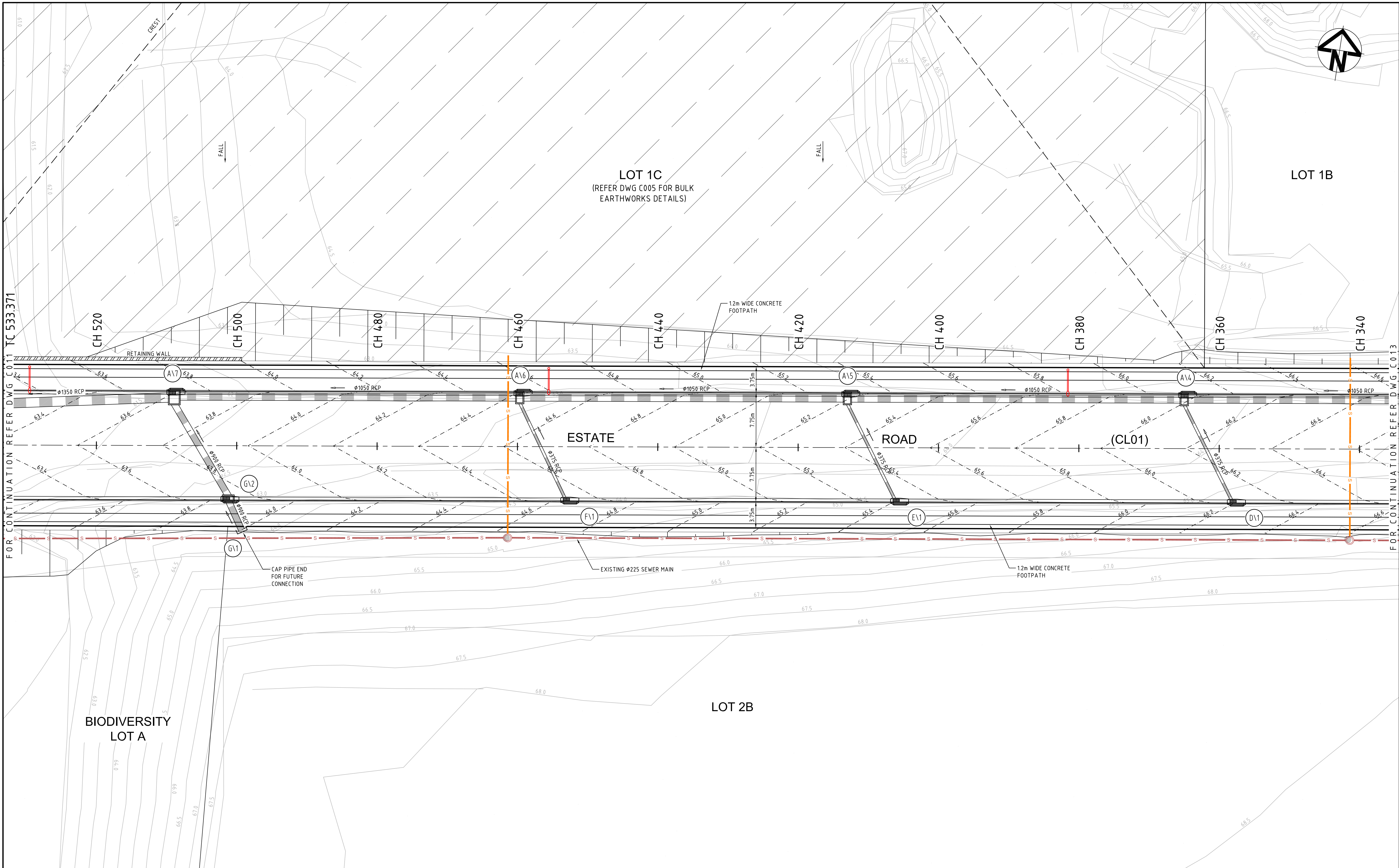
		Bar Scales	<p>THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L</p>	<p>Client</p> <div></div>	<table><tr><td rowspan="2">Scales</td><td rowspan="2">1 : 100</td><td>Drawn</td><td>TS</td></tr><tr><td>Designed</td><td>TS</td></tr><tr><td>Grid</td><td>MGA</td><td>Checked</td><td>AMcL</td></tr><tr><td>Height Datum</td><td>AHD</td><td>Approved</td><td></td></tr></table>	Scales	1 : 100	Drawn	TS	Designed	TS	Grid	MGA	Checked	AMcL	Height Datum	AHD	Approved		<table><tr><td colspan="2">Project</td></tr><tr><td colspan="2">OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION</td></tr><tr><td colspan="2">Title</td></tr><tr><td colspan="2">BULK EARTHWORKS SECTIONS SHEET 2</td></tr></table>	Project		OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION		Title		BULK EARTHWORKS SECTIONS SHEET 2		<table><tr><td colspan="3">Civil Engineers and Project Managers</td></tr><tr><td colspan="3"></td></tr><tr><td colspan="3">Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au</td></tr><tr><td>Status</td><td>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</td><td>A1</td></tr><tr><td>Drawing No.</td><td>Project No.</td><td>Issue</td></tr><tr><td>C007</td><td>12-79</td><td>C</td></tr></table>	Civil Engineers and Project Managers						Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au			Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1	Drawing No.	Project No.	Issue	C007	12-79	C
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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1																																													
Drawing No.	Project No.	Issue																																													
C007	12-79	C																																													
C	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12																																													
B	RE-ISSUED FOR S75W APPROVAL	03/07/12																																													
A	ISSUED FOR S75W APPROVAL	25/06/12																																													
Issue	Description	Date																																													






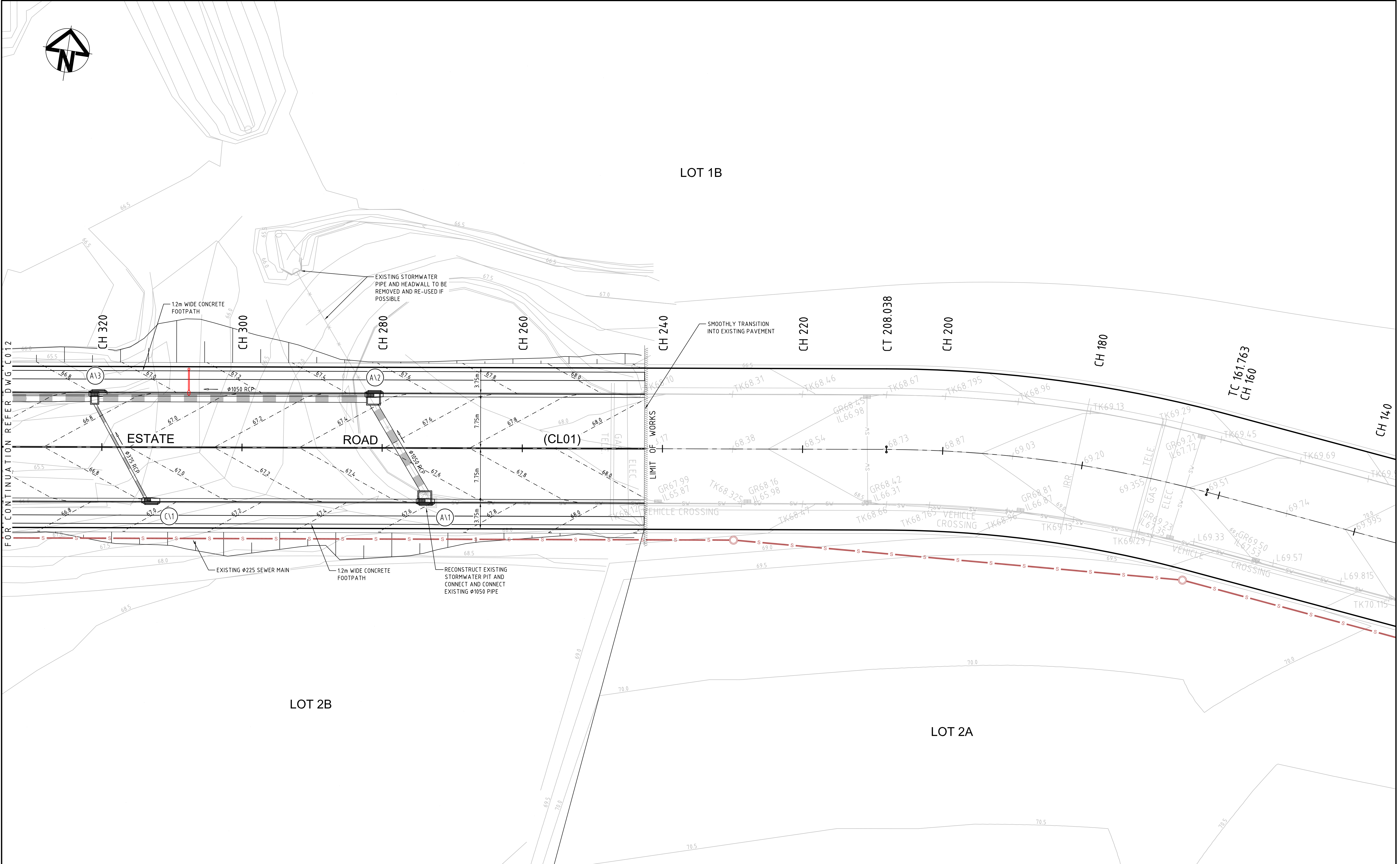
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Issue		Description	Date								



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B	ISSUED FOR INFORMATION		02/10/12																
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Issue	Description		Date																
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														FOR INFORMATION NOT TO BE USED FOR CONSTRUCTION					
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A ISSUED FOR S75W APPROVAL		25/06/12												
Issue	Description		Date											



Bar Scales

0510152025m

1 : 250

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Client

Scales

1 : 250

Grid

MGA

Height Datum

AHD

Drawn

Designed

Checked

Approved

MM

MM

AMcL

Project

OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION

SITWORKS PLAN SHEET 3

Civil Engineers and Project Managers

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Tel: 02 8920 2466
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Status

FOR APPROVAL

A1

NOT TO BE USED FOR CONSTRUCTION

Drawing No.

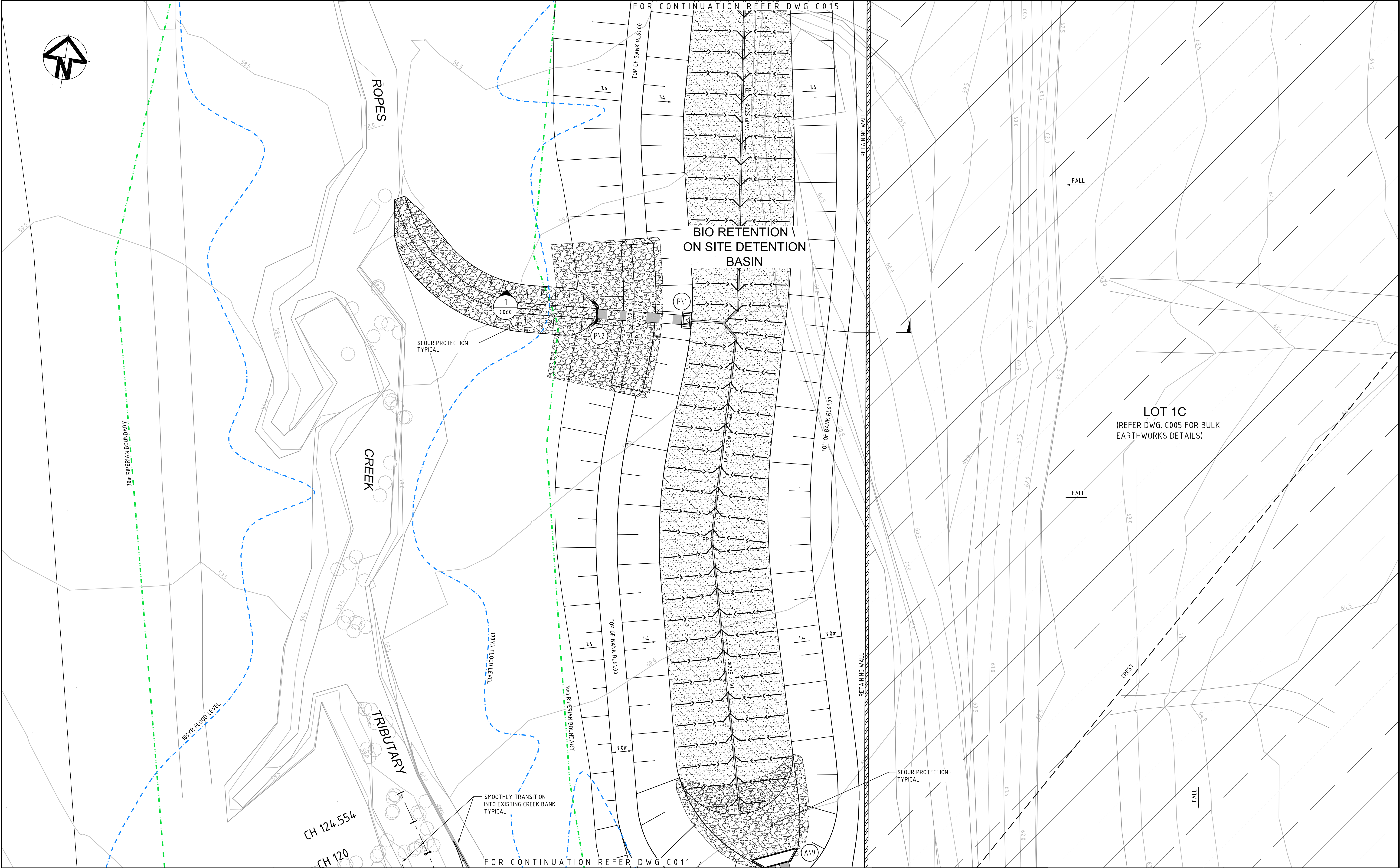
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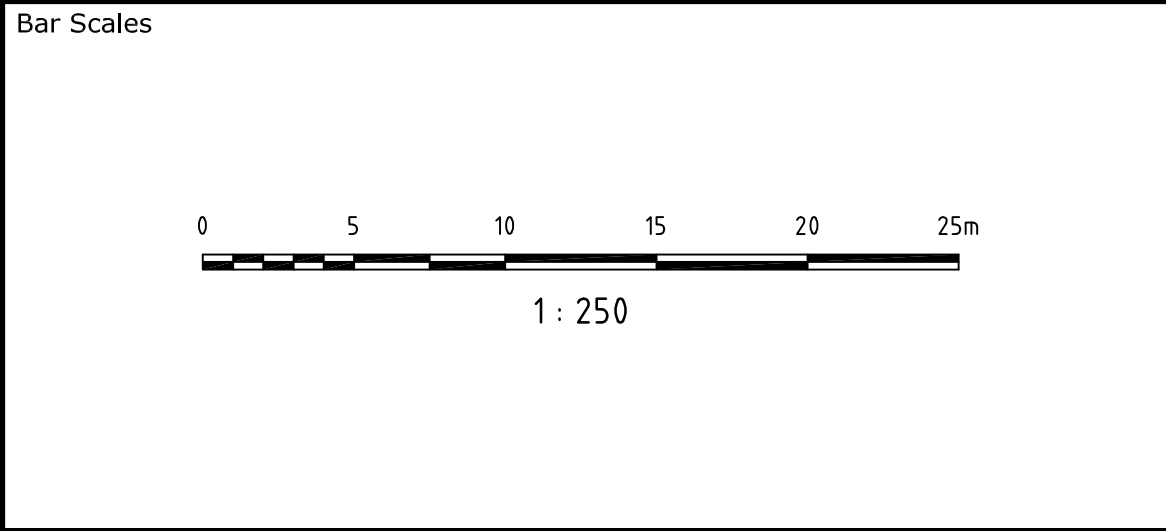
12-79

Issue

B



B		ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
A		ISSUED FOR S75W APPROVAL	25/06/12
Issue	Description	Date	



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Client

Goodman

Scales	1 : 250		Drawn	MM
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	Height Datum	AHD	Approved	

Project

OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION

Title

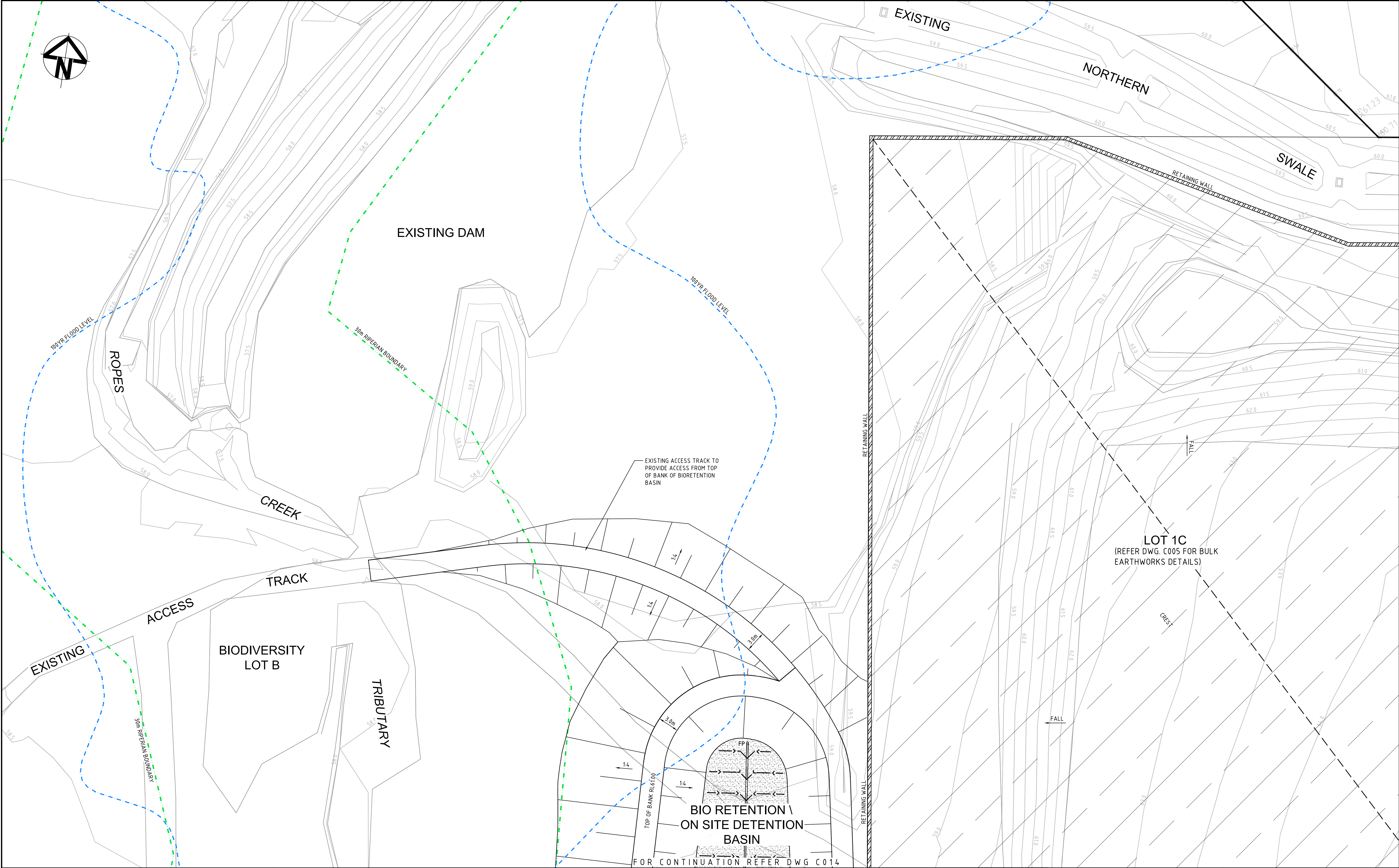
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Civil Engineers and Project Managers

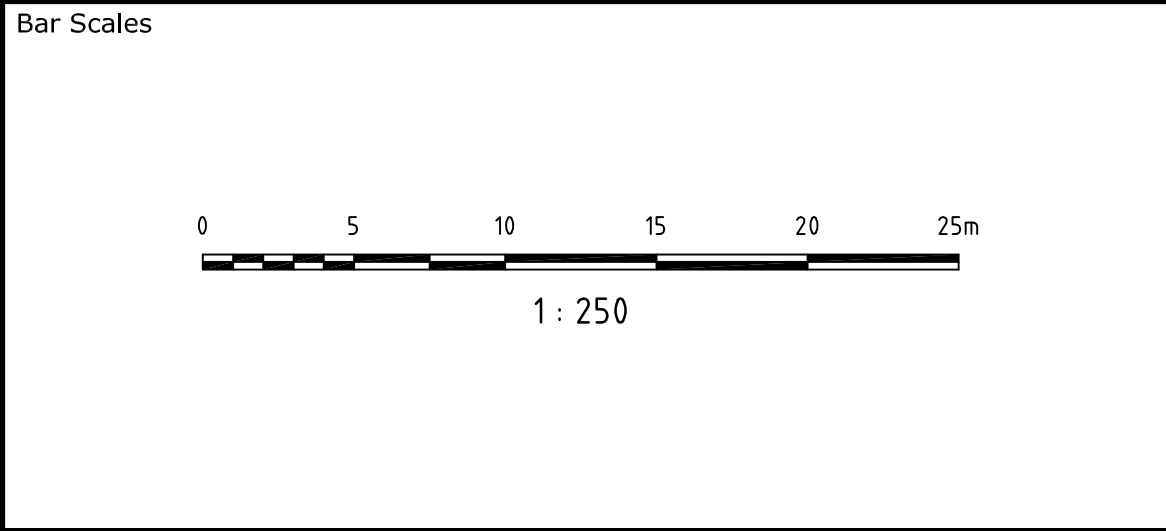
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Status	FOR APPROVAL		A1
NOT TO BE USED FOR CONSTRUCTION			
Drawing No.	Project No.	Issue	
C014	12-79	B	



Issue	B	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
	A	ISSUED FOR S75W APPROVAL	25/06/12
Description		Date	



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Scales	1 : 250	Drawn	MM
		Designed	MM
Grid	MGA	Checked	AMcL
		Approved	
Height Datum	AHD		

Project

OAKDALE CENTRAL
STAGE 2
ESTATE ROAD EXTENSION

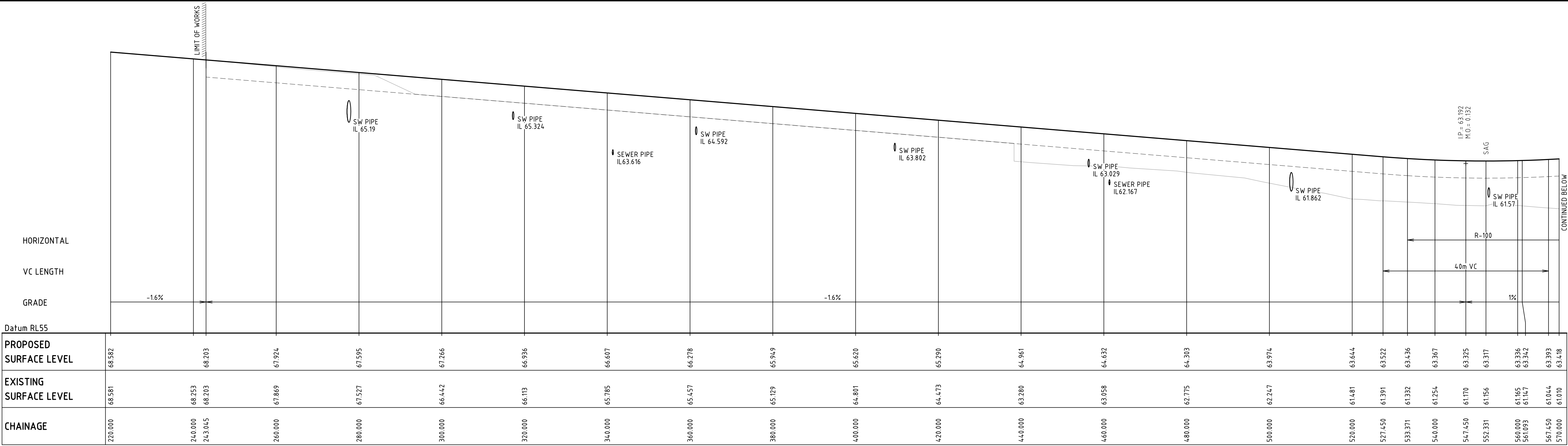
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SITWORKS PLAN
SHEET 5

Civil Engineers and Project Managers

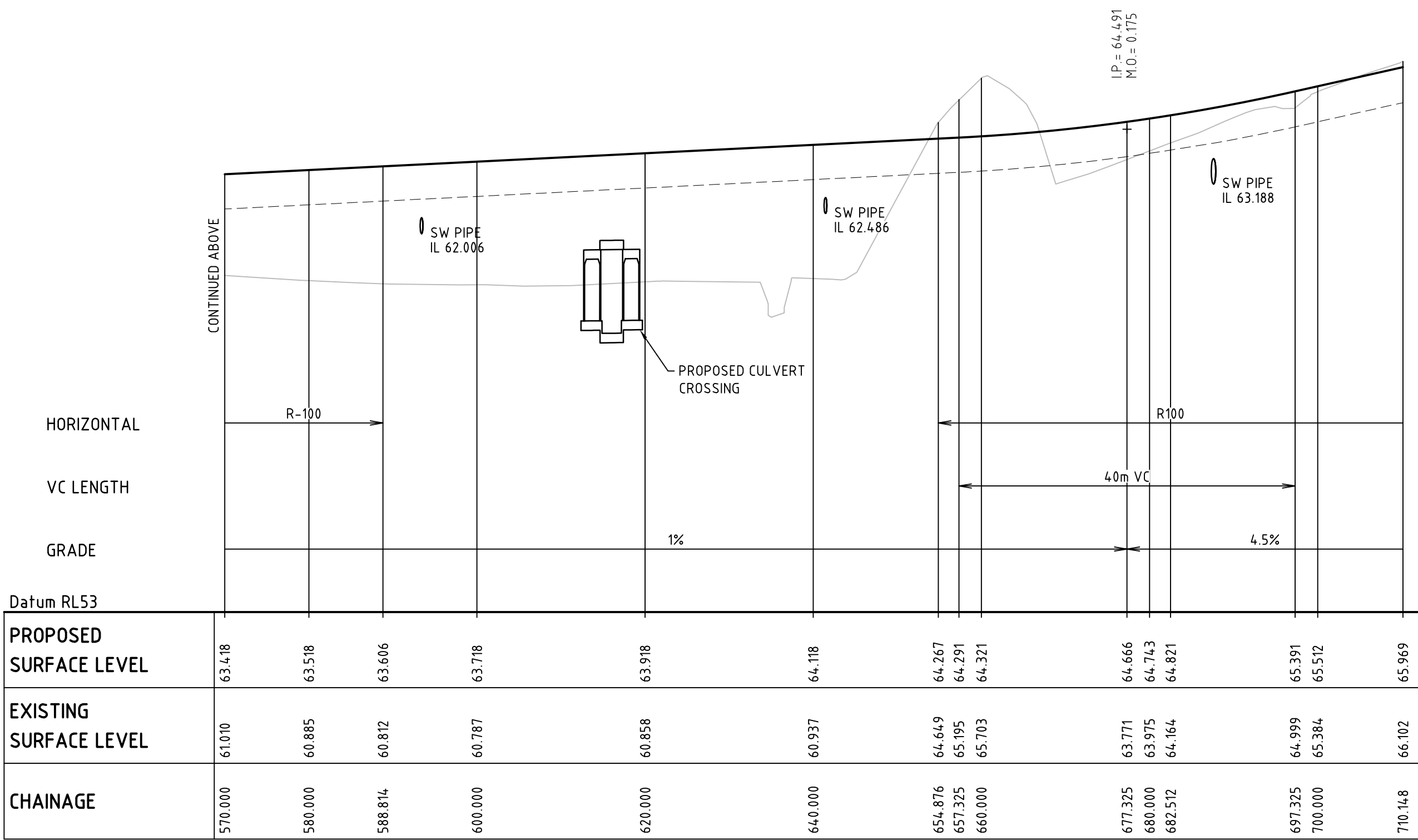
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Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	C015	Issue
Project No.	12-79	B



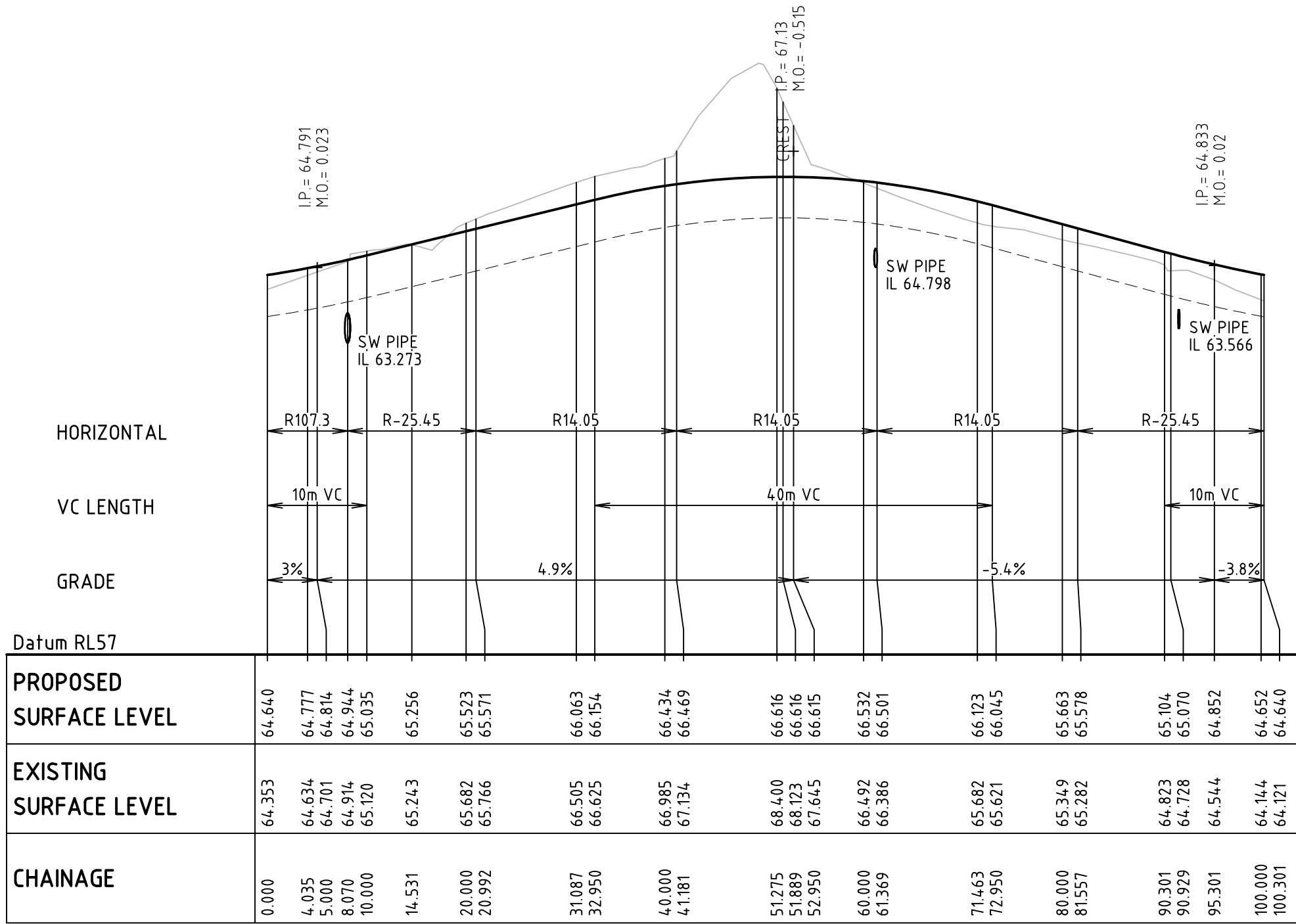
ESTATE ROAD LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.



ESTATE ROAD LONGITUDINAL SECTION (CONTINUED)

SCALE 1:500 HORI.
1:100 VERT.



TURN HEAD CONTROL C001 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Bar Scales

0 2 4 6 8 10m

1 : 100

0 10 20 30 40 50m

1 : 500

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Client

Goodman

Scales

AS SHOWN

Grid MGA

Height Datum AHD

Drawn

Designed

Checked

Approved

Project

OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION

Title

ROAD LONGITUDINAL SECTIONS

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www.atl.net.au
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Status

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NOT TO BE USED FOR CONSTRUCTION

Drawing No.

C020

Project No.

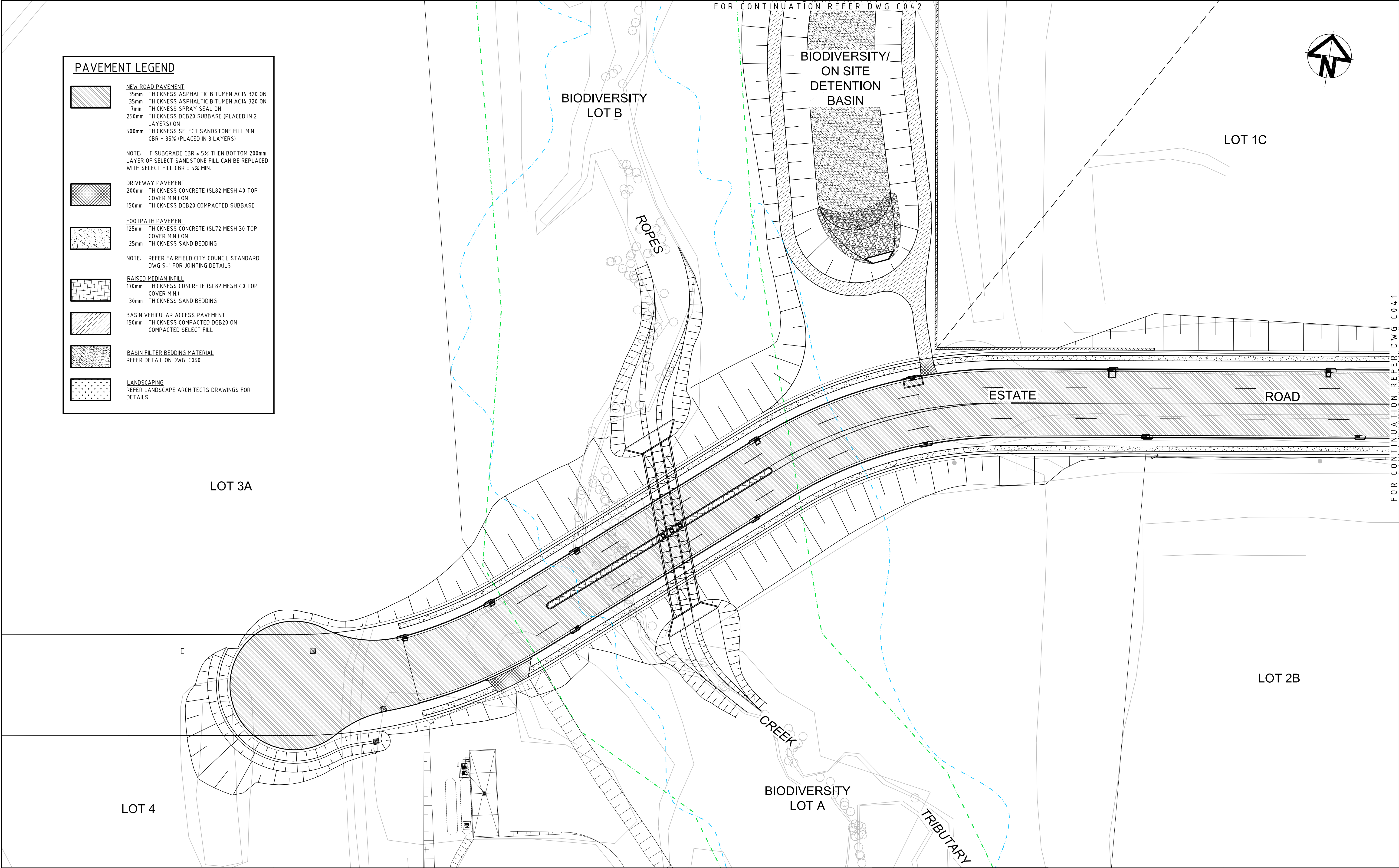
12-79

Issue

B

100mm on Original

F:\12-79 Oakdale Industrial Estate Design\Drgs\Civil\Final\C020 - Road Longitudinal Sections.dwg



PAVEMENT LEGEND

NEW ROAD PAVEMENT
35mm THICKNESS ASPHALTIC BITUMEN AC14 320 ON
35mm THICKNESS ASPHALTIC BITUMEN AC14 320 ON
3mm THICKNESS SPRAY SEAL ON
250mm THICKNESS DGB20 SUBBASE (PLACED IN 2 LAYERS) ON
500mm THICKNESS SELECT SANDSTONE FILL MIN. CBR = 35% (PLACED IN 3 LAYERS)

NOTE: IF SUBGRADE CBR ≥ 5% THEN BOTTOM 200mm LAYER OF SELECT SANDSTONE FILL CAN BE REPLACED WITH SELECT FILL CBR = 5% MIN.

DRIVEWAY PAVEMENT
200mm THICKNESS CONCRETE (SL82 MESH 40 TOP COVER MIN.) ON
150mm THICKNESS DGB20 COMPACTED SUBBASE

FOOTPATH PAVEMENT
125mm THICKNESS CONCRETE (SL72 MESH 30 TOP COVER MIN.) ON
25mm THICKNESS SAND BEDDING

NOTE: REFER FAIRFIELD CITY COUNCIL STANDARD DWG S-1 FOR JOINTING DETAILS

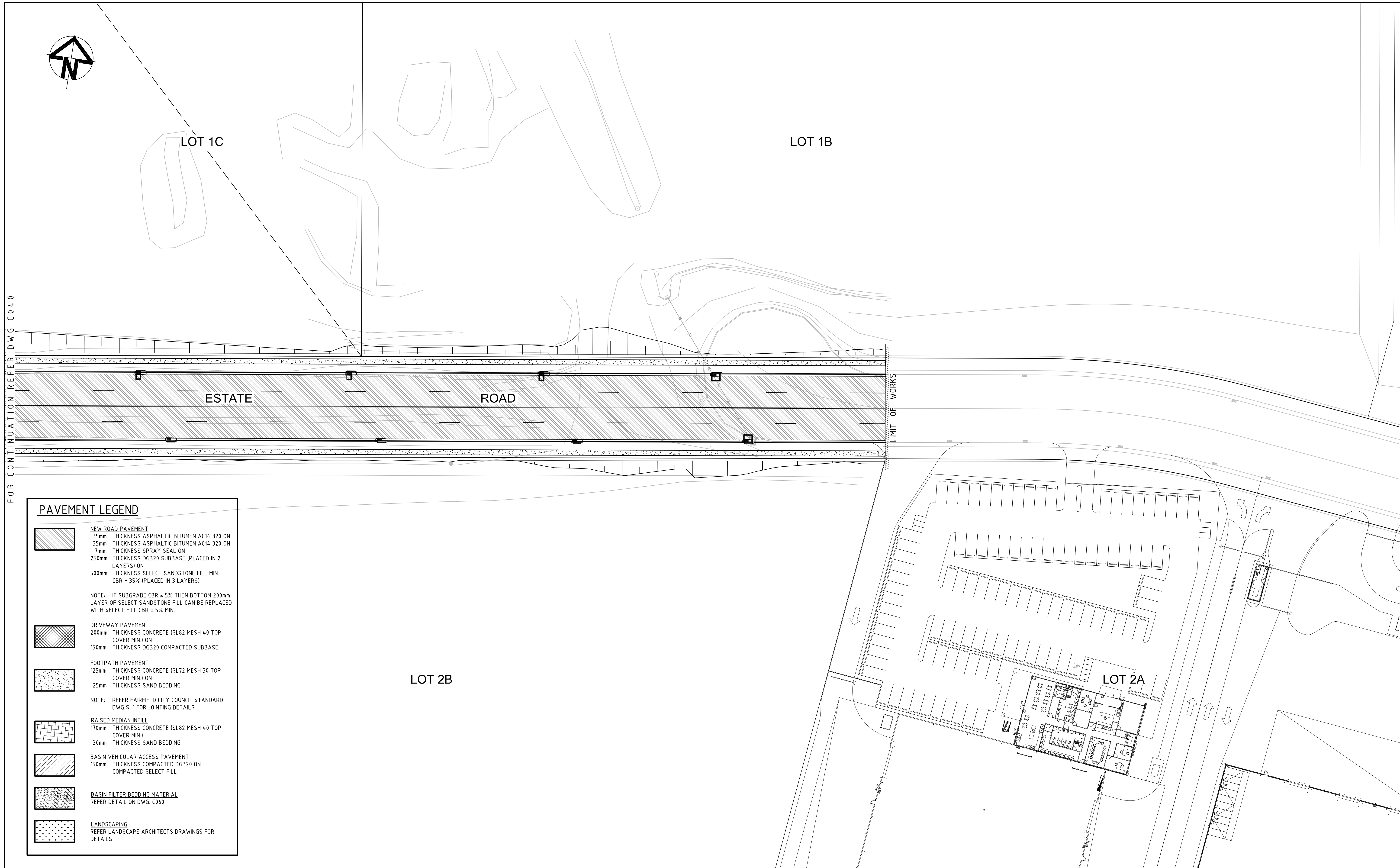
RAISED MEDIAN INFILL
170mm THICKNESS CONCRETE (SL82 MESH 40 TOP COVER MIN.)
30mm THICKNESS SAND BEDDING

BASIN VEHICULAR ACCESS PAVEMENT
150mm THICKNESS COMPACTED DGB20 ON COMPACTED SELECT FILL




BASIN FILTER BEDDING MATERIAL
REFER DETAIL ON DWG. C060

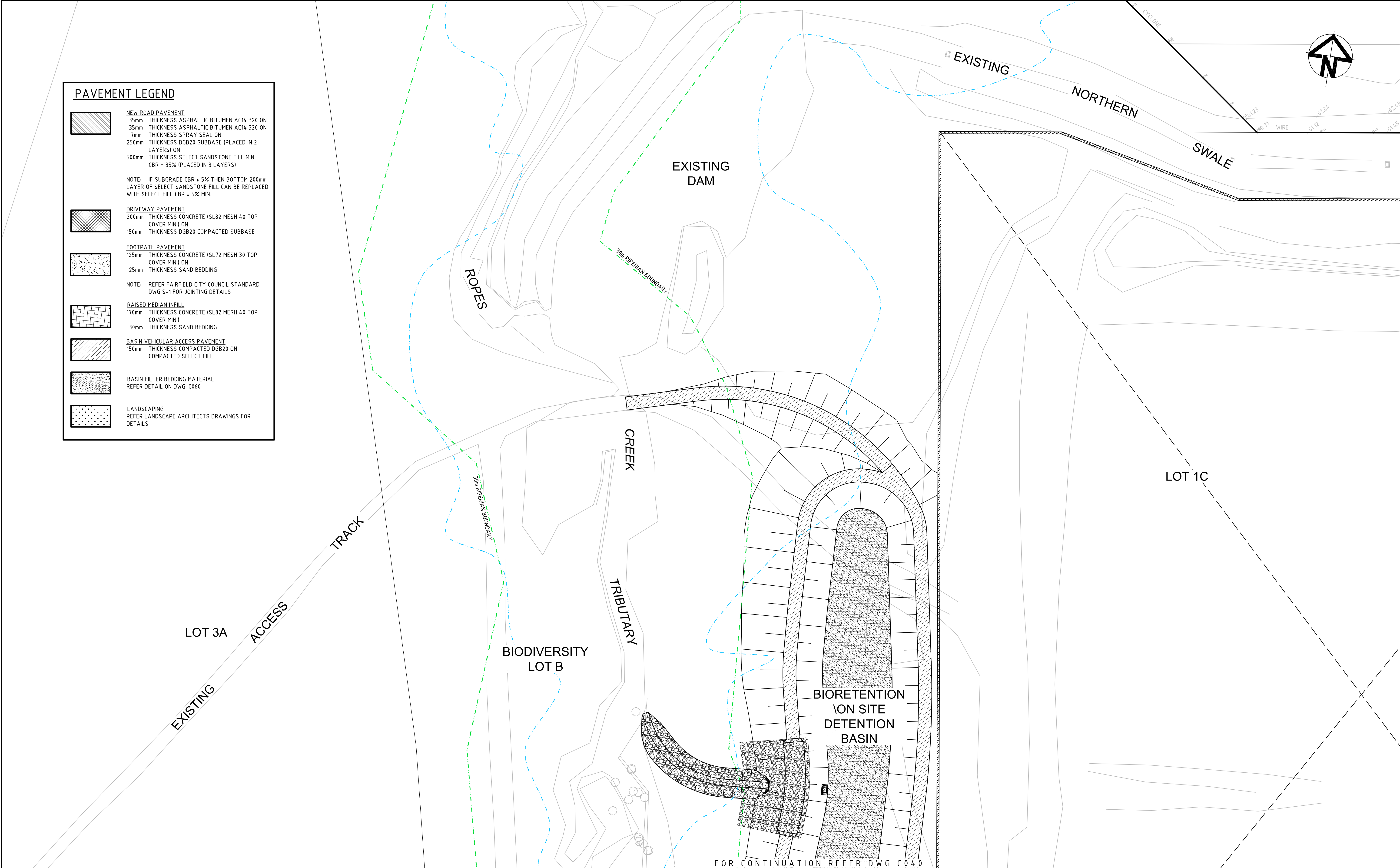
LANDSCAPING
REFER LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

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<div>Issue</div> <div>Description</div> <div>Date</div>												<div>Drawing No.</div> <div>C040</div>		<div>Project No.</div> <div>12-79</div>		<div>Issue</div> <div>B</div>	



PAVEMENT LEGEND	
	NEW ROAD PAVEMENT 35mm THICKNESS ASPHALTIC BITUMEN AC14 320 ON 35mm THICKNESS ASPHALTIC BITUMEN AC14 320 ON 7mm THICKNESS SPRAY SEAL ON 250mm THICKNESS DGB20 SUBBASE (PLACED IN 2 LAYERS) ON 500mm THICKNESS SELECT SANDSTONE FILL MIN. CBR = 35% (PLACED IN 3 LAYERS)
NOTE: IF SUBGRADE CBR > 5% THEN BOTTOM 200mm LAYER OF SELECT SANDSTONE FILL CAN BE REPLACED WITH SELECT FILL CBR = 5% MIN.	
	DRIVEWAY PAVEMENT 200mm THICKNESS CONCRETE (SL82 MESH 4.0 TOP COVER MIN.) ON 150mm THICKNESS DGB20 COMPACTED SUBBASE
	FOOTPATH PAVEMENT 125mm THICKNESS CONCRETE (SL72 MESH 30 TOP COVER MIN.) ON 25mm THICKNESS SAND BEDDING
NOTE: REFER FAIRFIELD CITY COUNCIL STANDARD DWG S-1 FOR JOINTING DETAILS	
	RAISED MEDIAN INFILL 170mm THICKNESS CONCRETE (SL82 MESH 4.0 TOP COVER MIN.) 30mm THICKNESS SAND BEDDING
	BASIN VEHICULAR ACCESS PAVEMENT 150mm THICKNESS COMPACTED DGB20 ON COMPACTED SELECT FILL
	BASIN FILTER BEDDING MATERIAL REFER DETAIL ON DWG. C060
	LANDSCAPING REFER LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

			<div>Bar Scales</div> <div></div>	<div>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</div>	<div>Client</div> <div></div>	<div><div><div>Scales</div><div>1 : 400</div></div><div><div>Grid</div><div>MGA</div></div><div><div>Height Datum</div><div>AHD</div></div></div> <div><div><div>Drawn</div><div>MM</div></div><div><div>Designed</div><div>MM</div></div><div><div>Checked</div><div>AMcL</div></div><div><div>Approved</div><div></div></div></div>	<div><div>Project</div><div>OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION</div><div>Title</div><div>PAVEMENT, SIGNAGE AND LINEMARKING PLAN SHEET 2</div></div>	<div><div>Civil Engineers and Project Managers</div><div><div>Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au</div></div></div> <div><div>Status</div><div>FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION</div><div>A1</div></div> <div><div><div>Drawing No.</div><div>C041</div></div><div><div>Project No.</div><div>12-79</div></div><div><div>Issue</div><div>B</div></div></div>
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A	ISSUED FOR S75W APPROVAL	25/06/12						
Issue	Description	Date						



B	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
A	ISSUED FOR S75W APPROVAL	25/06/12
Issue	Description	Date

Bar Scales

0 10 20 30 40m

1 : 400

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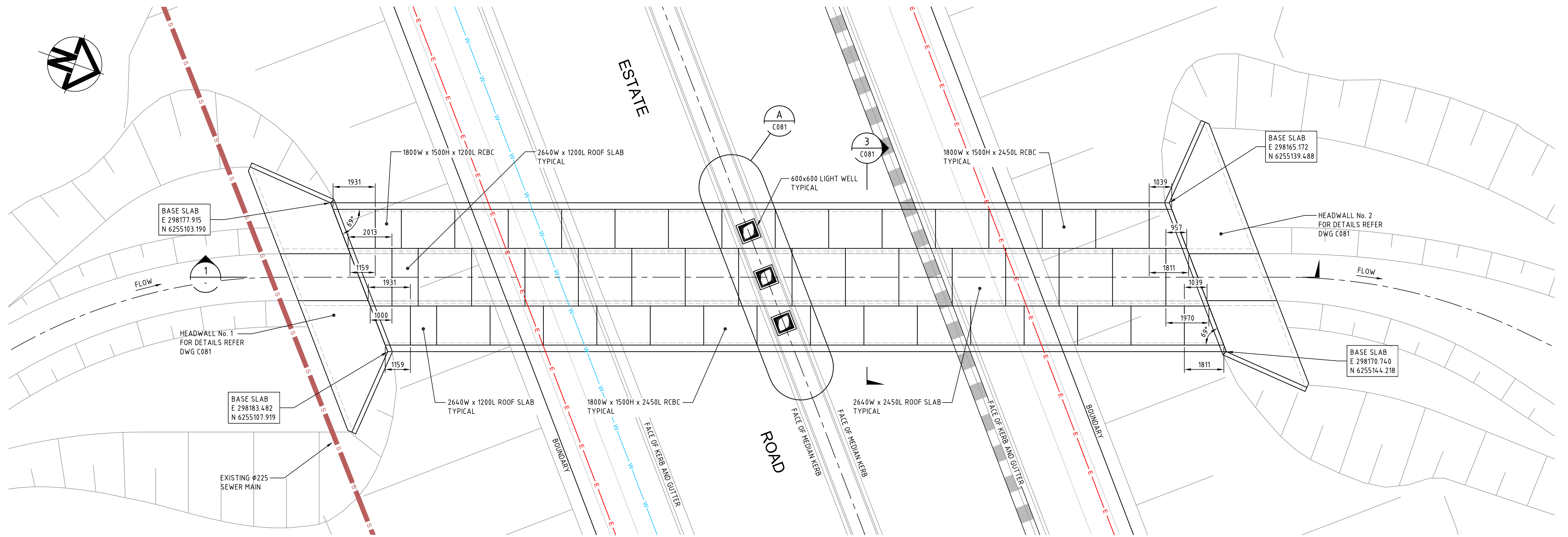
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Goodman

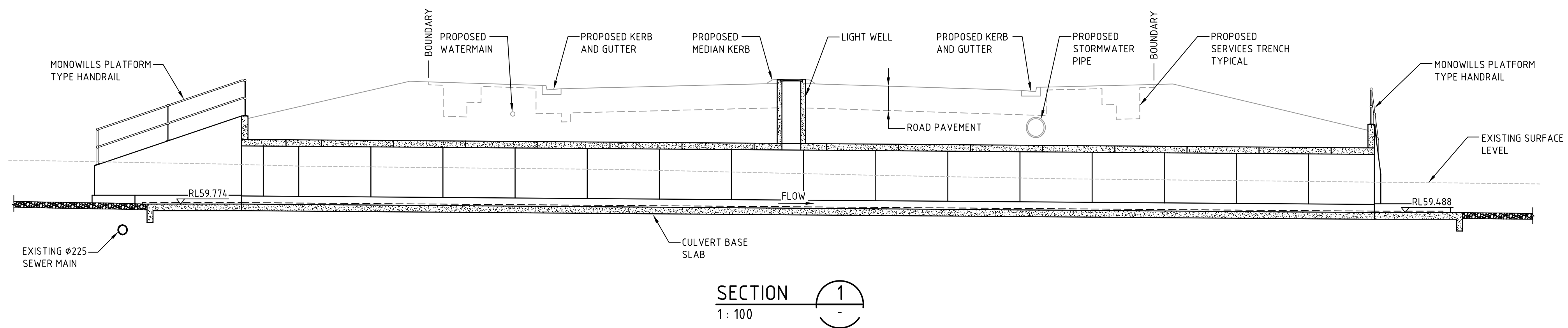
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Project	
OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION	
Title	
PAVEMENT, SIGNAGE AND LINEMARKING PLAN SHEET 3	

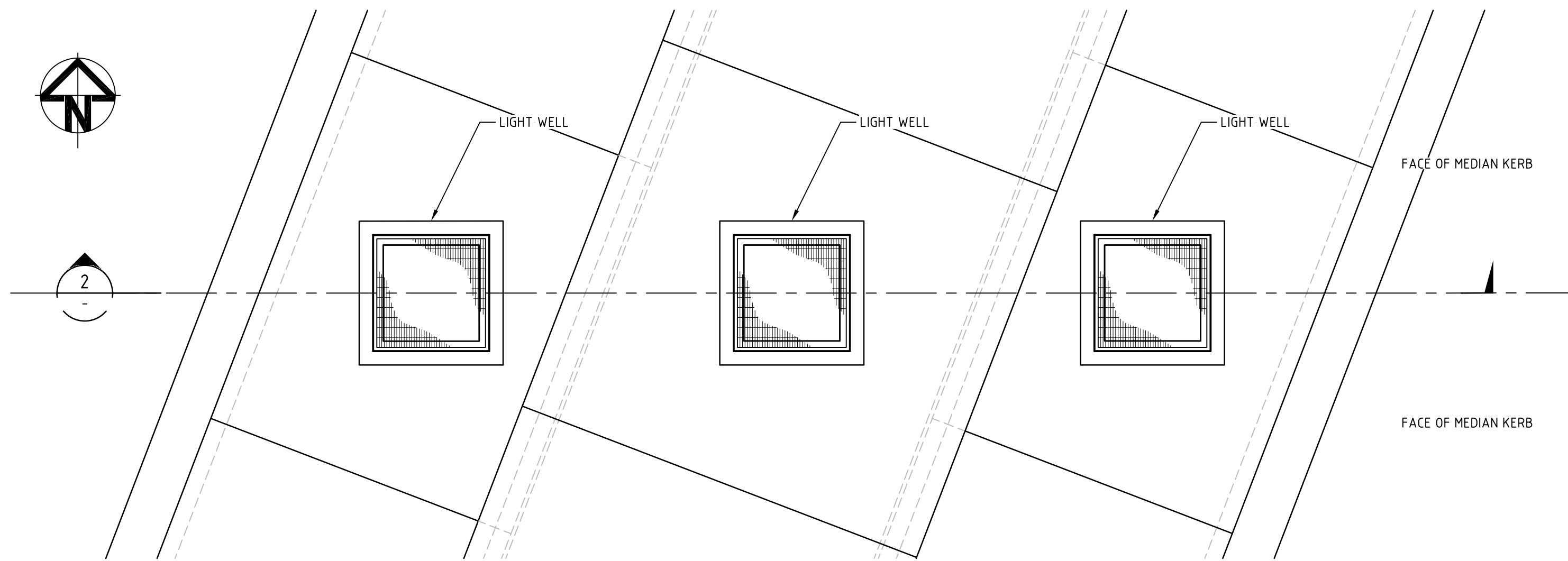
Civil Engineers and Project Managers	
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Drawing No.	Project No.
C042	12-79
Issue	B



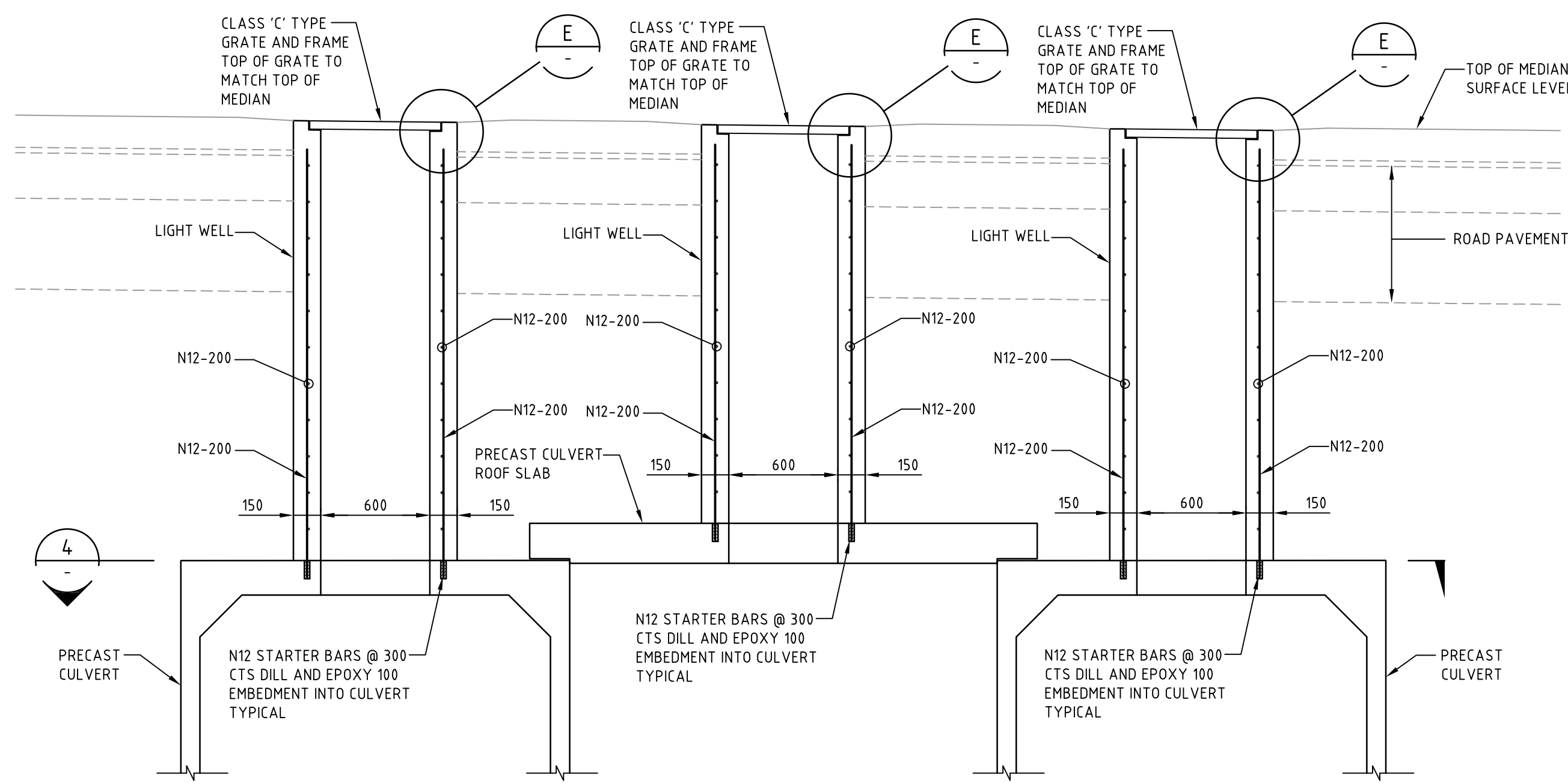
CULVERT CROSSING
GENERAL ARRANGEMENT
PLAN
SCALE 1:100



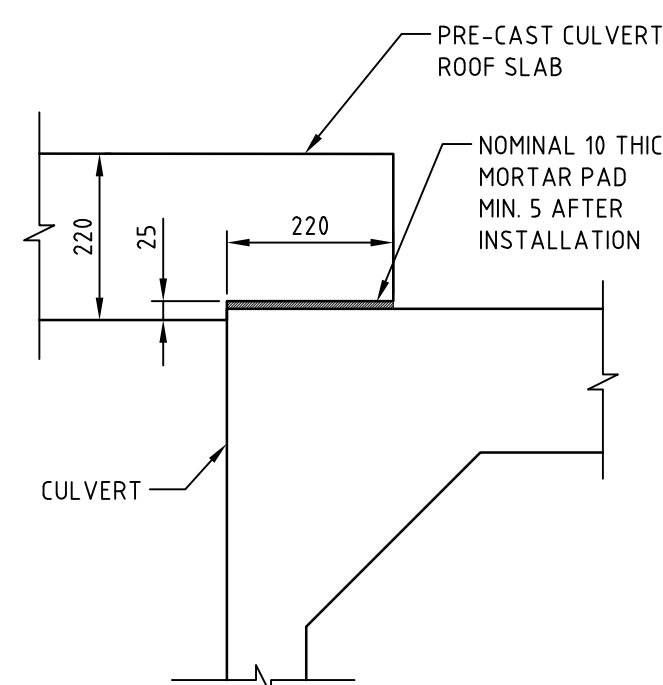
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A	ISSUED FOR S75W APPROVAL	25/06/12					
Issue	Description	Date					



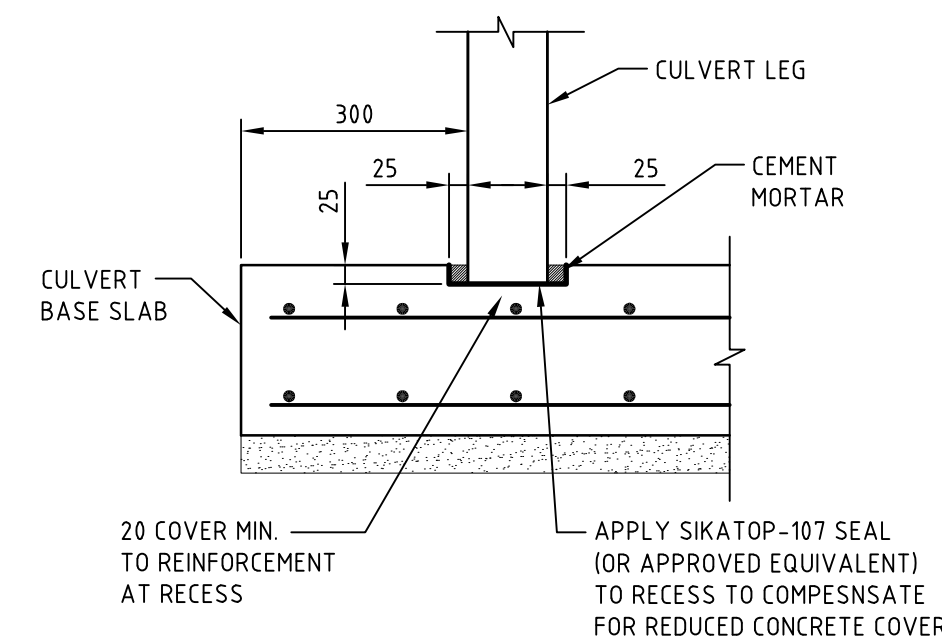
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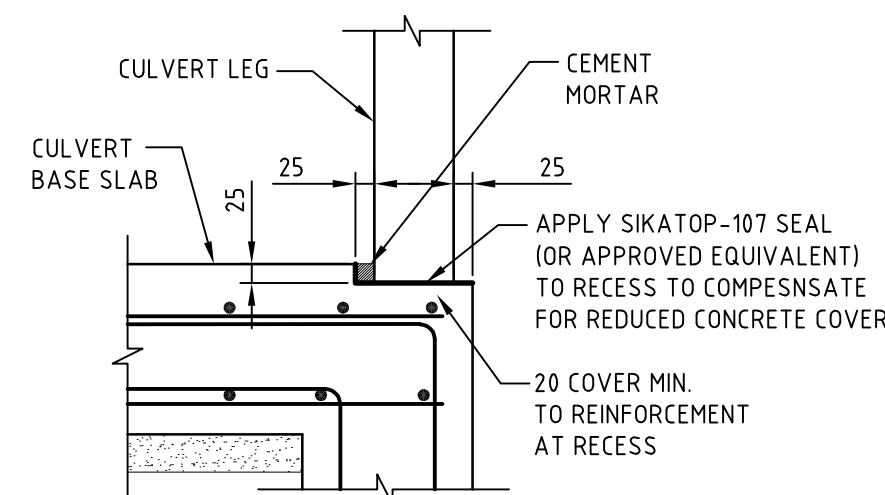
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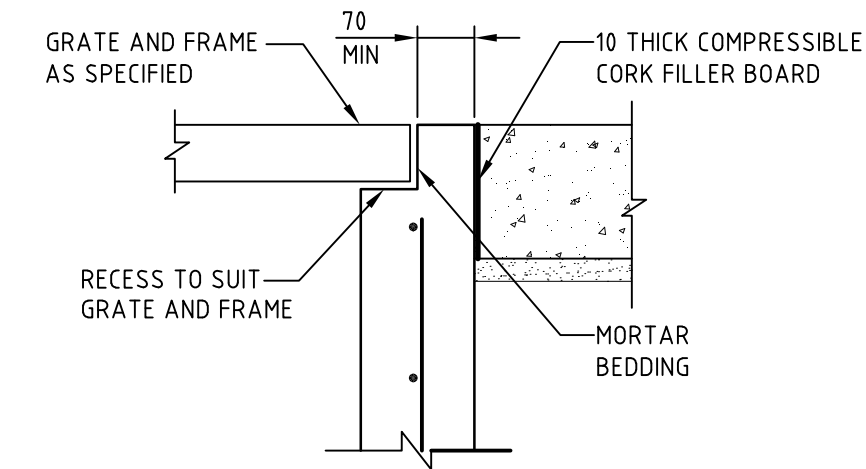
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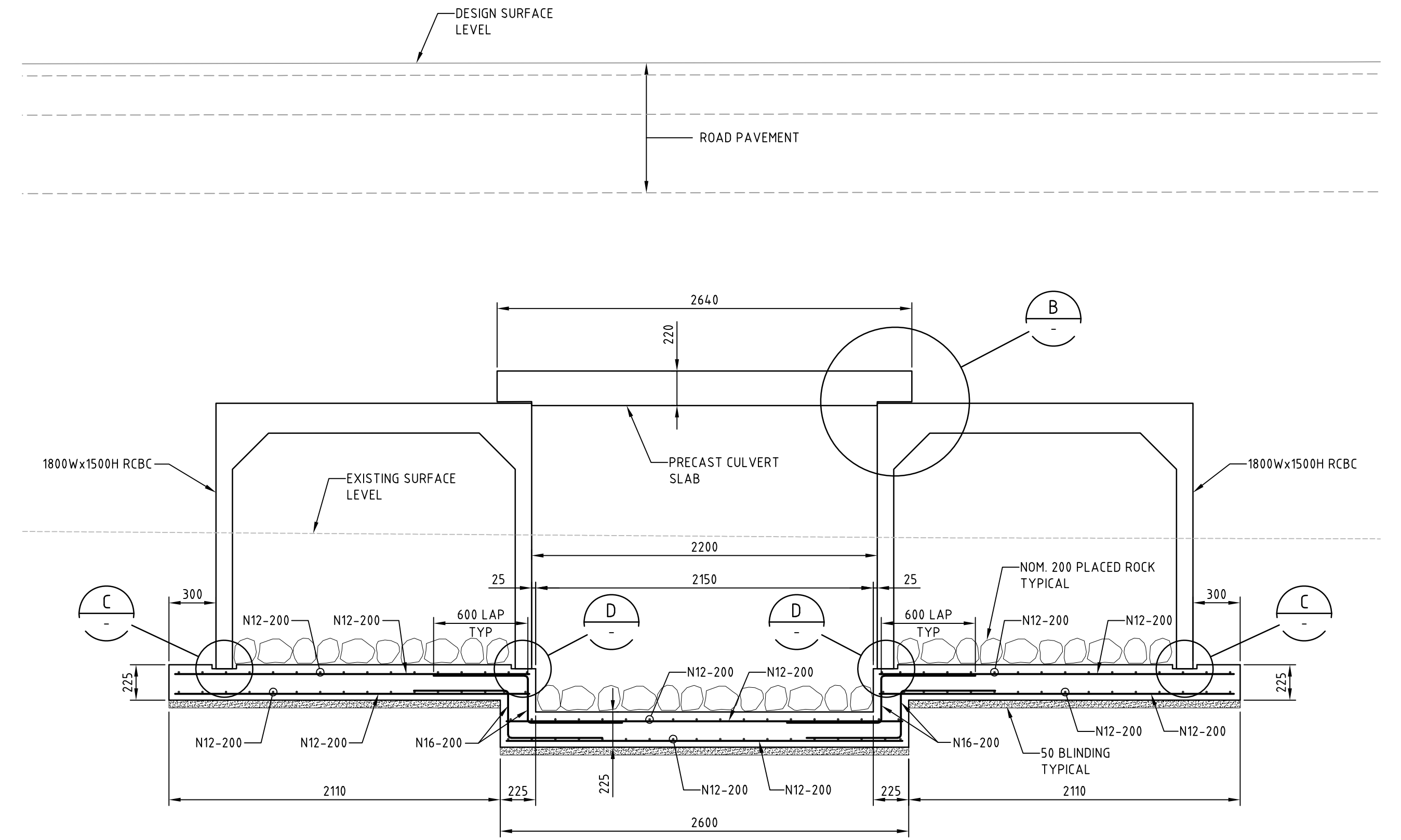
DETAIL C
1: 10



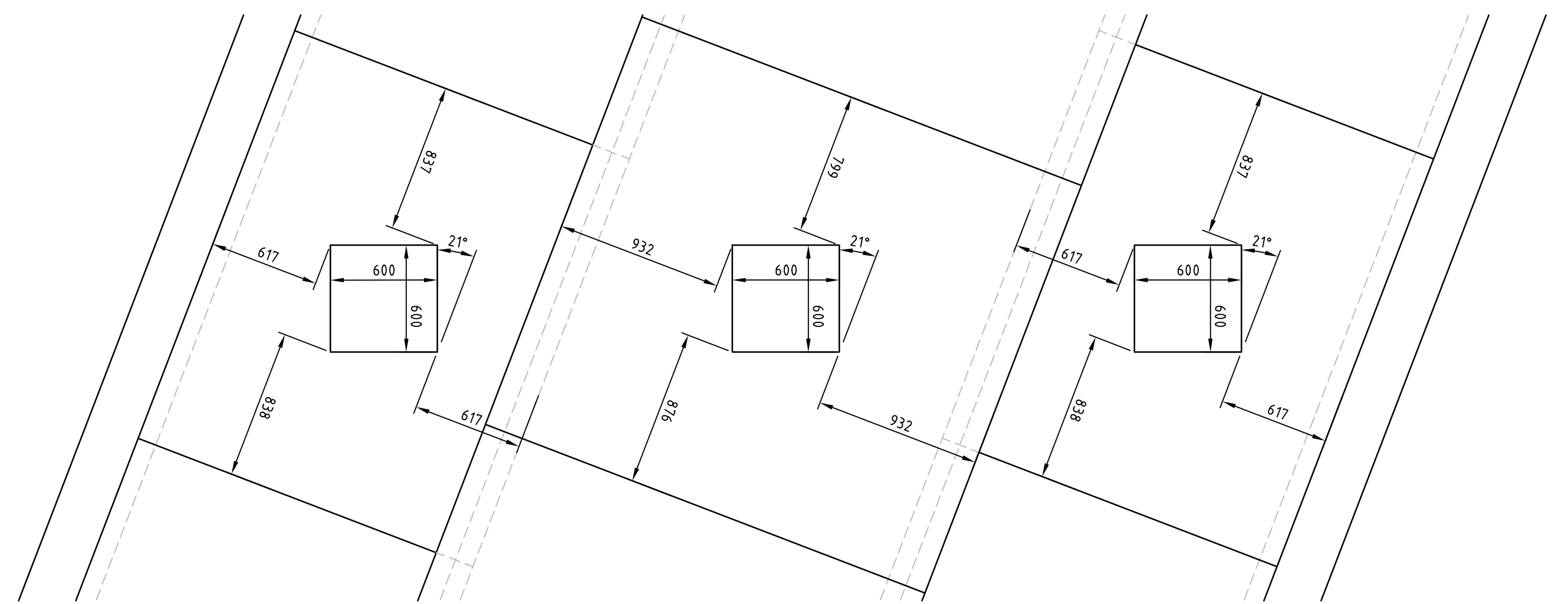
DETAIL D
1: 10



DETAIL E
1: 10



SECTION 3
1: 25



SECTION 4
1: 25

B	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
A	ISSUED FOR S75W APPROVAL	25/06/12
Issue	Description	Date


Bar Scales

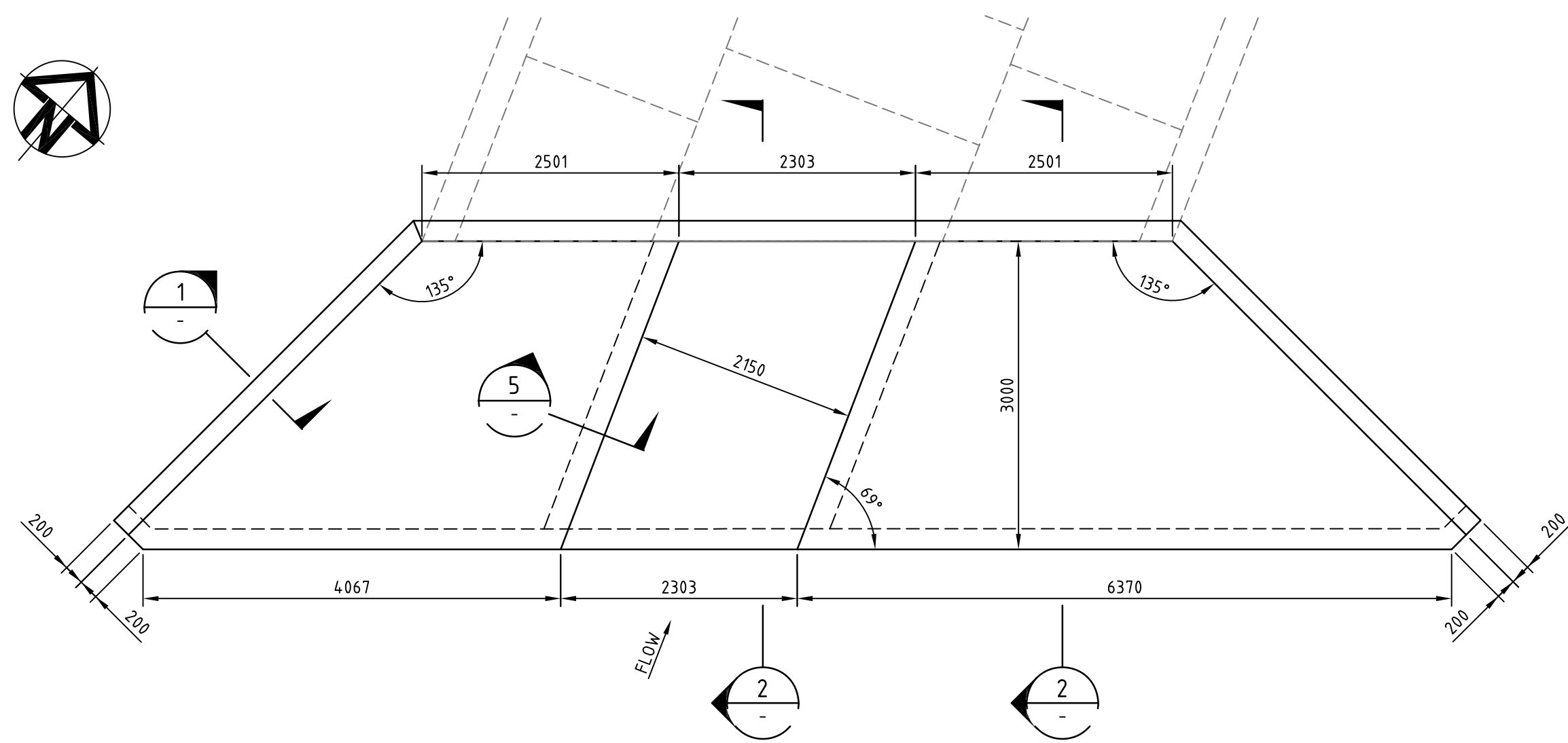
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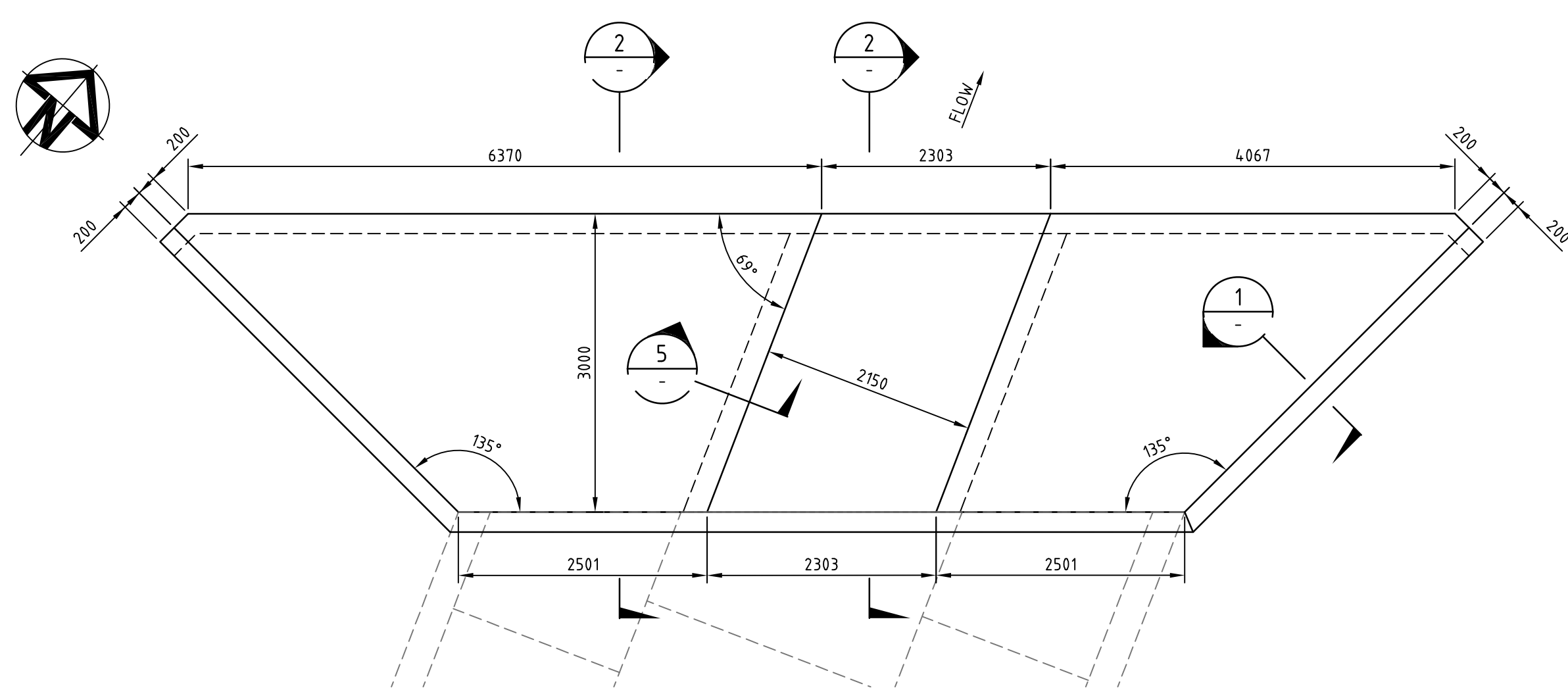
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Project	OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION
Title	CULVERT CROSSING DETAILS SHEET 2

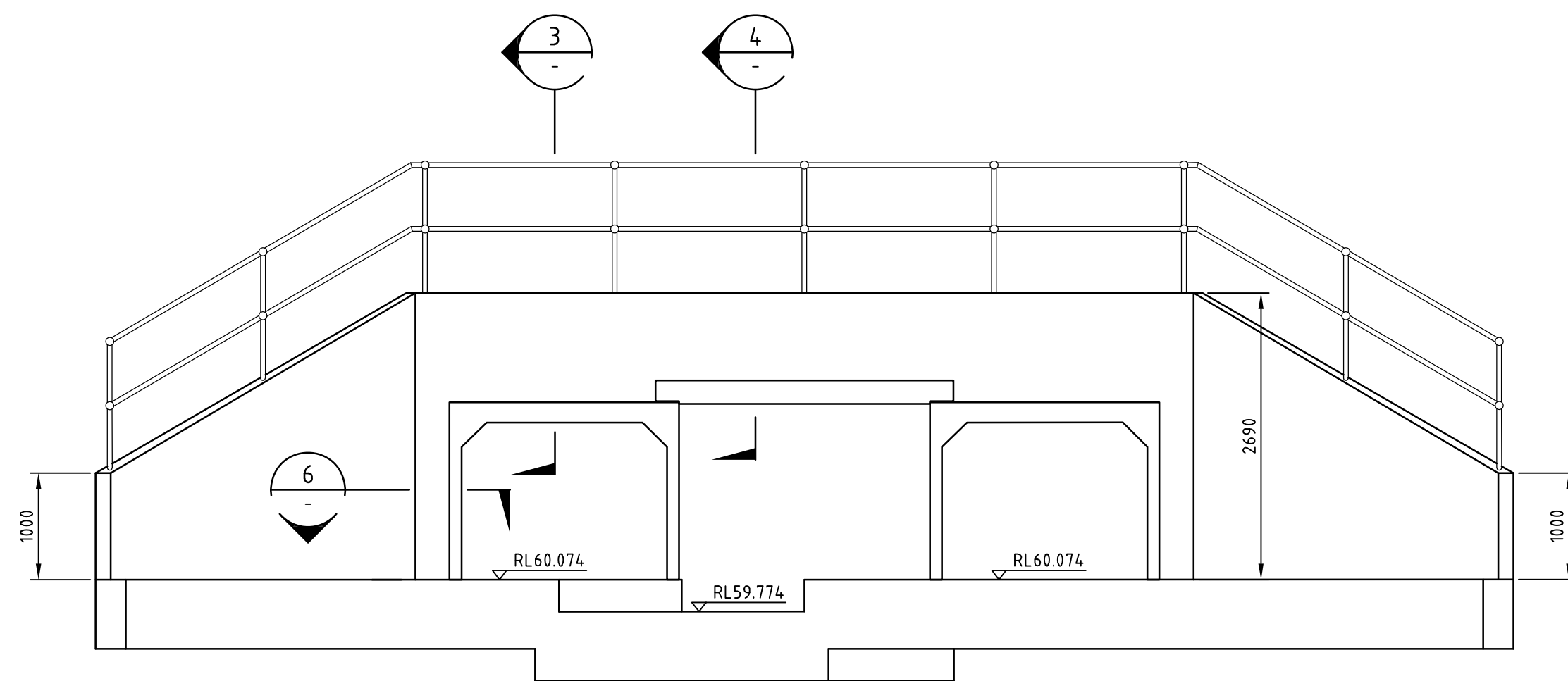
Civil Engineers and Project Managers		
	Suite 702, 6A Glen Street Milsons Point NSW 2061	
	ABN 96 130 882 405	
	Tel: 02 8920 2466	
	Fax: 02 9922 5102	
	www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	Project No.	Issue
C081	12-79	B



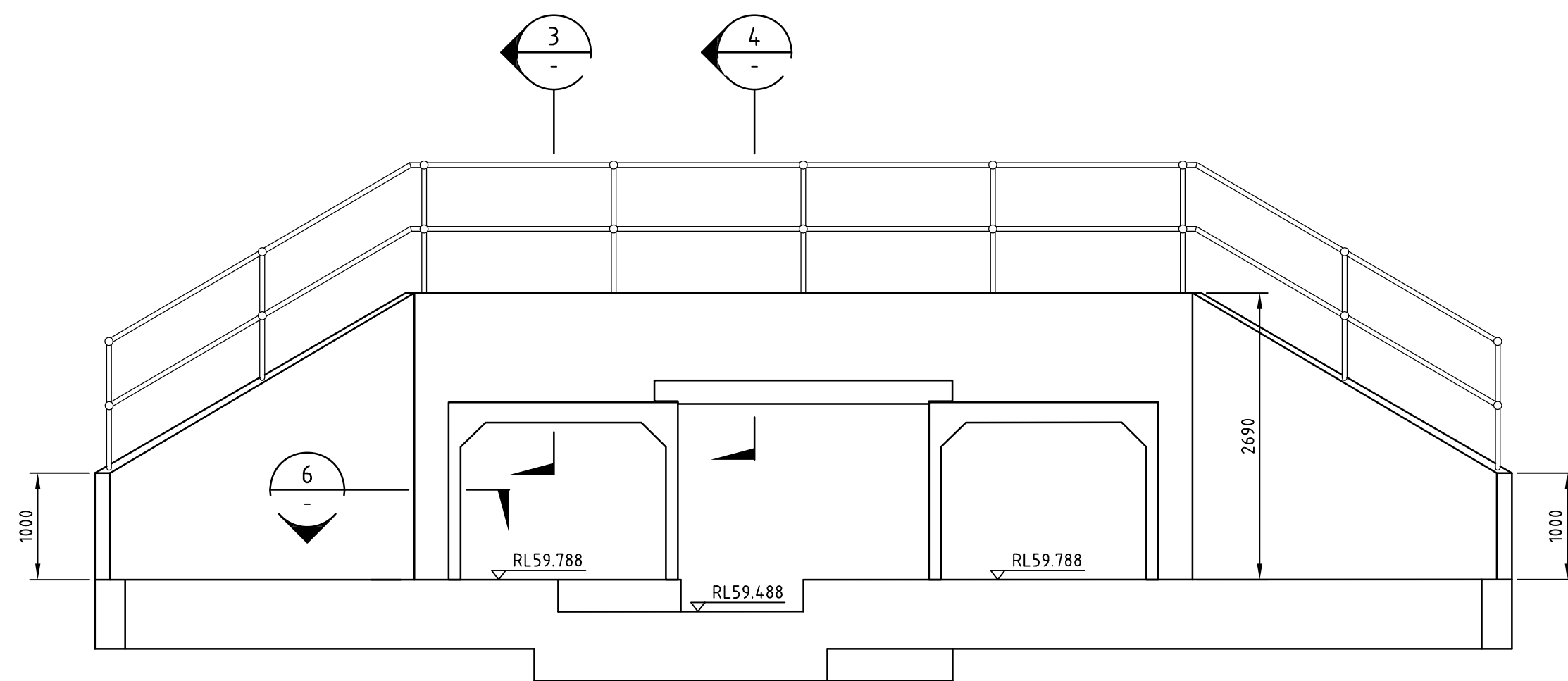
HEADWALL No.1 - PLAN
SCALE 1:50



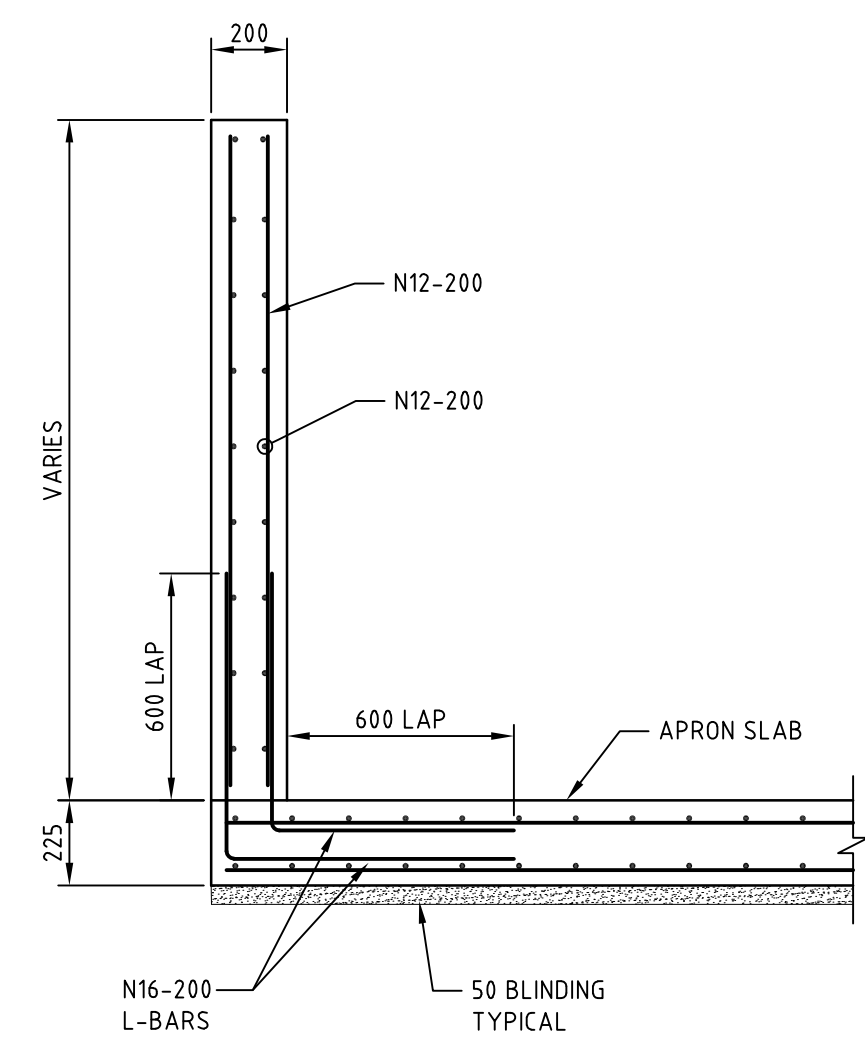
HEADWALL No.2 - PLAN
SCALE 1:50



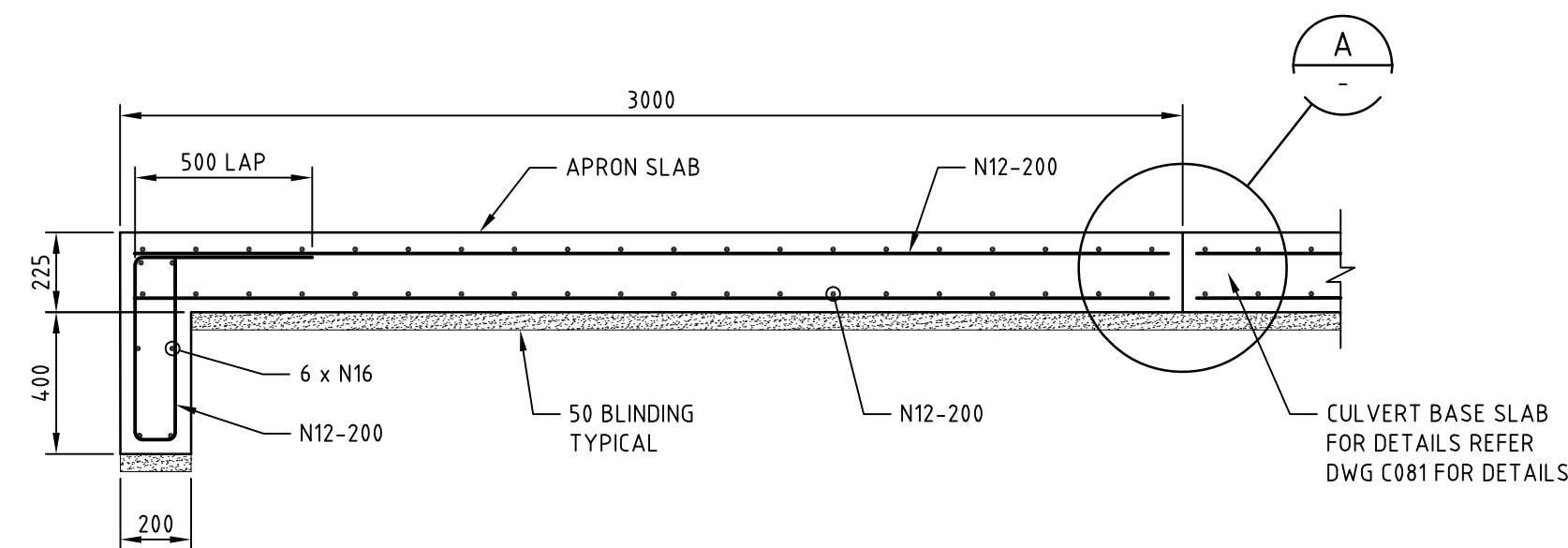
**HEADWALL No.1
ELEVATION**
SCALE 1:50



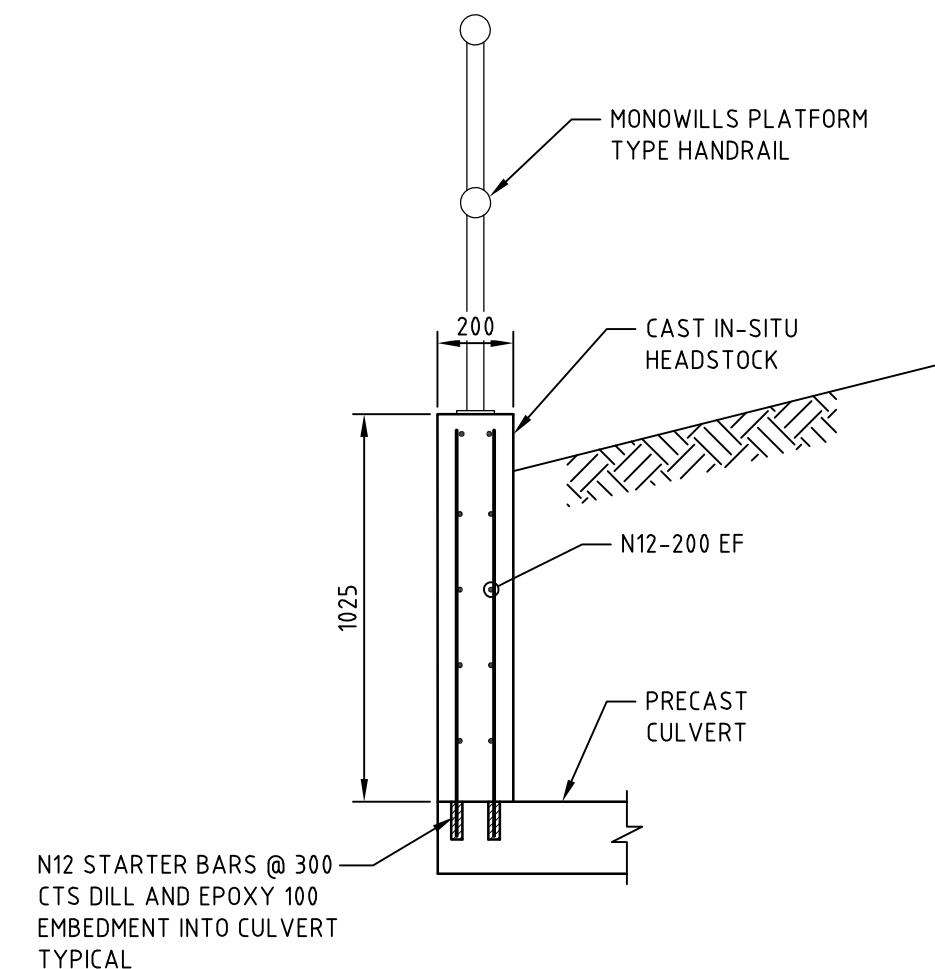
**HEADWALL No.2
ELEVATION**
SCALE 1:50



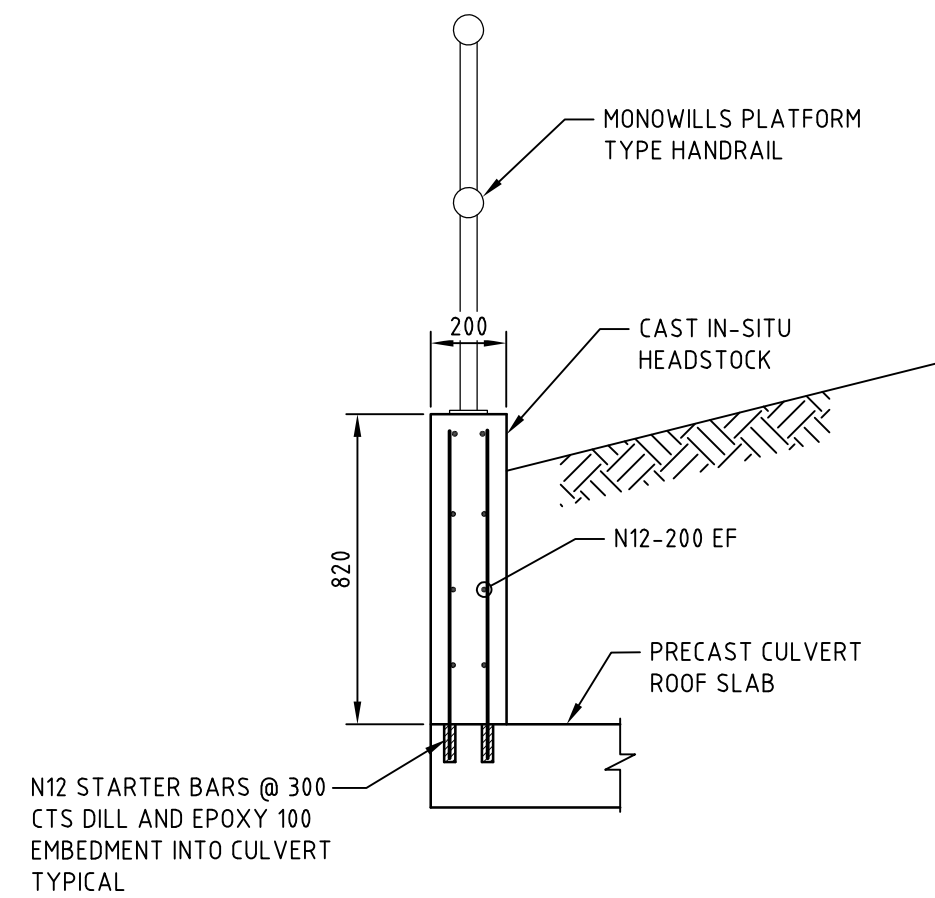
SECTION 1
1: 20



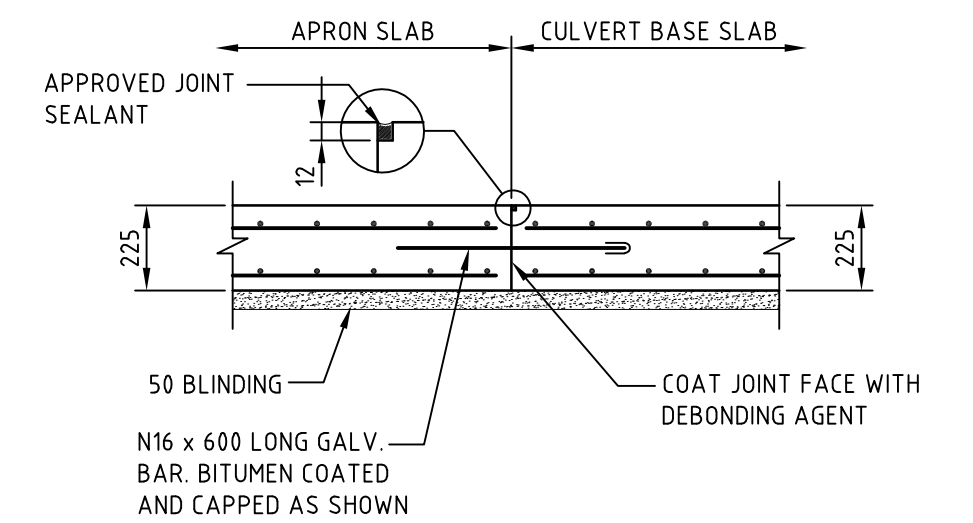
SECTION 2
1: 20



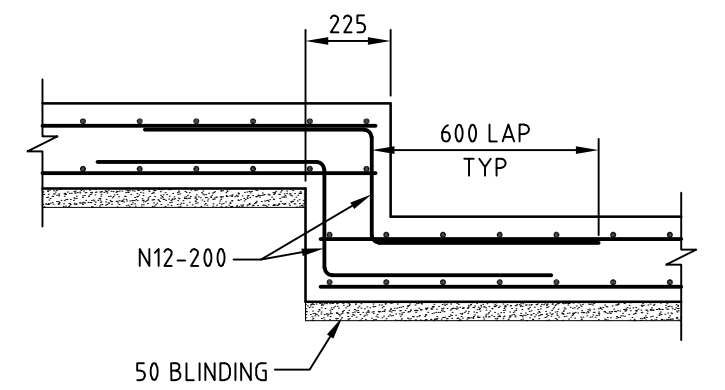
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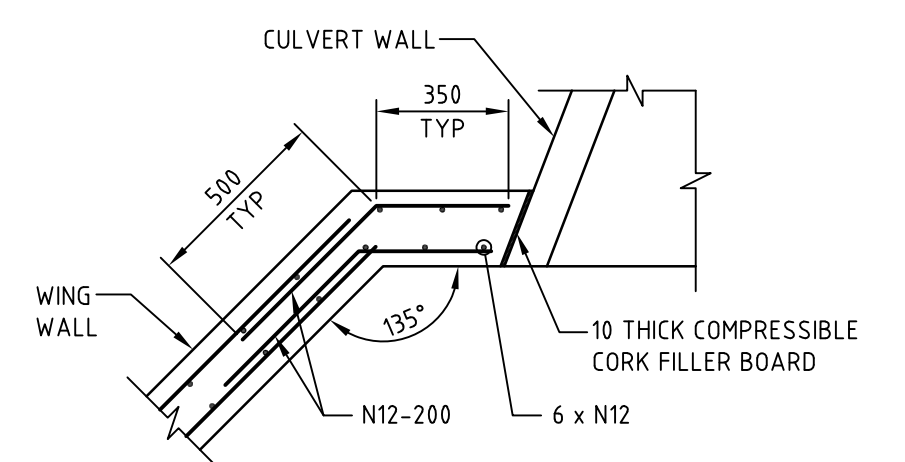
SECTION 4
1: 20



DETAIL A
1: 20



SECTION 5
1: 20



SECTION 6
1: 20

B	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
A	ISSUED FOR S75W APPROVAL	25/06/12
Issue	Description	Date


Bar Scales

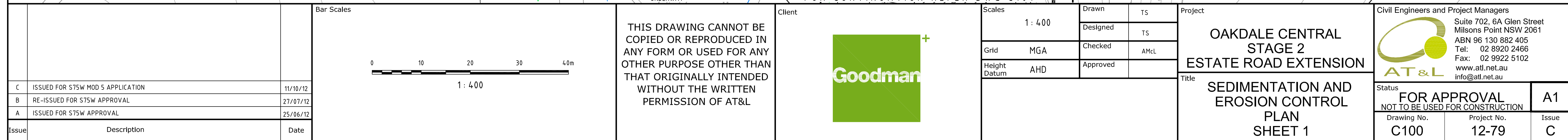
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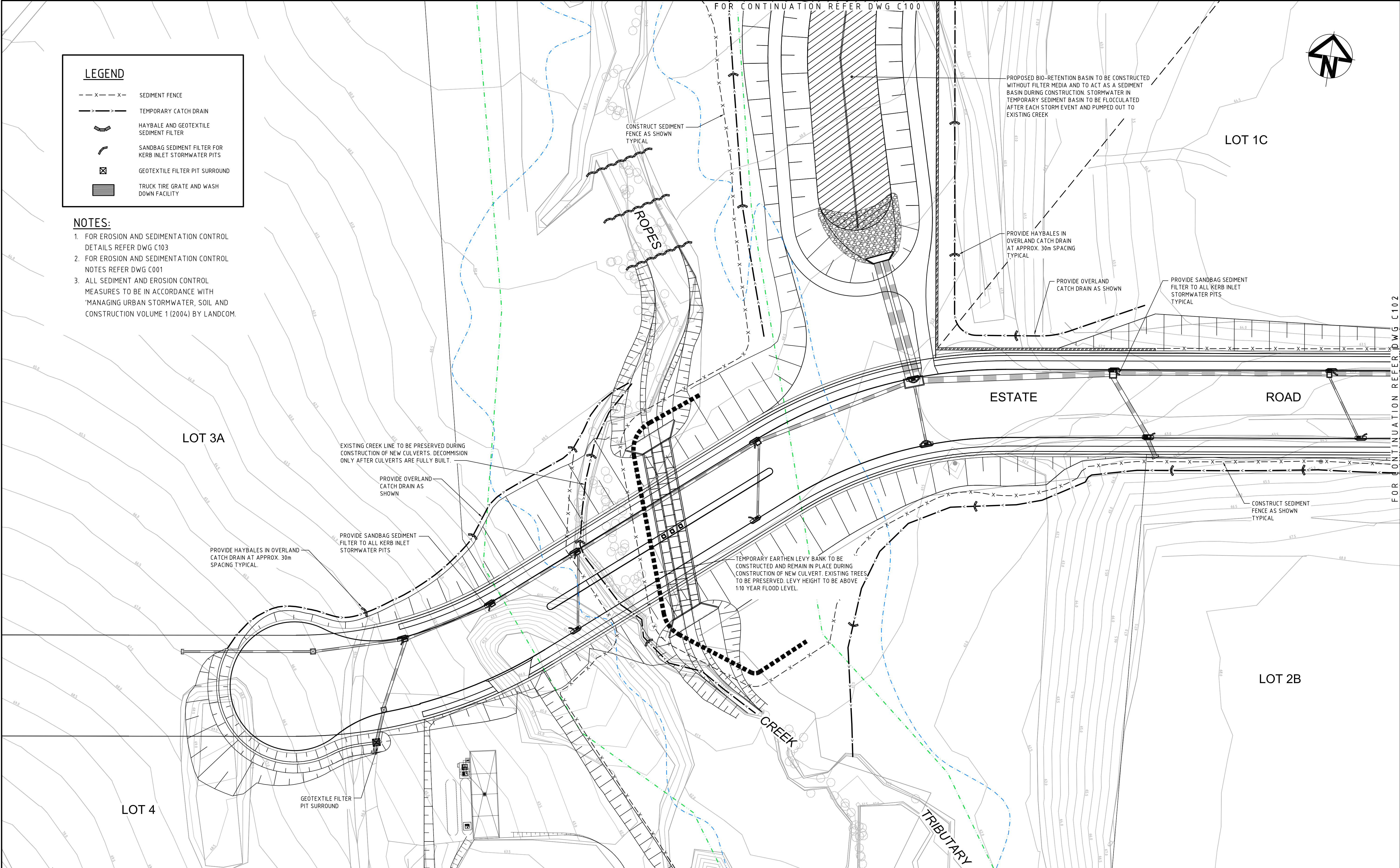


Scales	AS SHOWN	Drawn	MM
Grid	MGA	Designed	MM
Height Datum	AHD	Checked	AMcL
		Approved	

Project	OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION
Title	CULVERT CROSSING DETAILS SHEET 3

Civil Engineers and Project Managers		
	Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au	
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No. C082	Project No. 12-79	Issue B





LEGEND

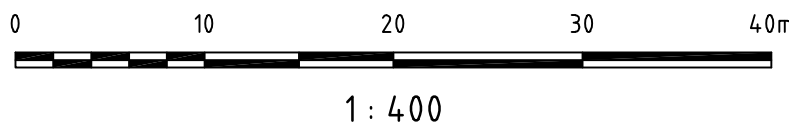
- x --- x --- SEDIMENT FENCE
- >--->--- TEMPORARY CATCH DRAIN
- HAYBALE AND GEOTEXTILE SEDIMENT FILTER
- SANDBAG SEDIMENT FILTER FOR KERB INLET STORMWATER PITS
- GEOTEXTILE FILTER PIT SURROUND
- TRUCK TIRE GRATE AND WASH DOWN FACILITY

NOTES:

1. FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER DWG C103
2. FOR EROSION AND SEDIMENTATION CONTROL NOTES REFER DWG C001
3. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, SOIL AND CONSTRUCTION VOLUME 1 (2004) BY LANDCOM.

C	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
B	RE-ISSUED FOR S75W APPROVAL	27/07/12
A	ISSUED FOR S75W APPROVAL	25/06/12
Issue	Description	Date

Bar Scales



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Client



Scales
1 : 400

Grid
MGA

Height
Datum
AHD

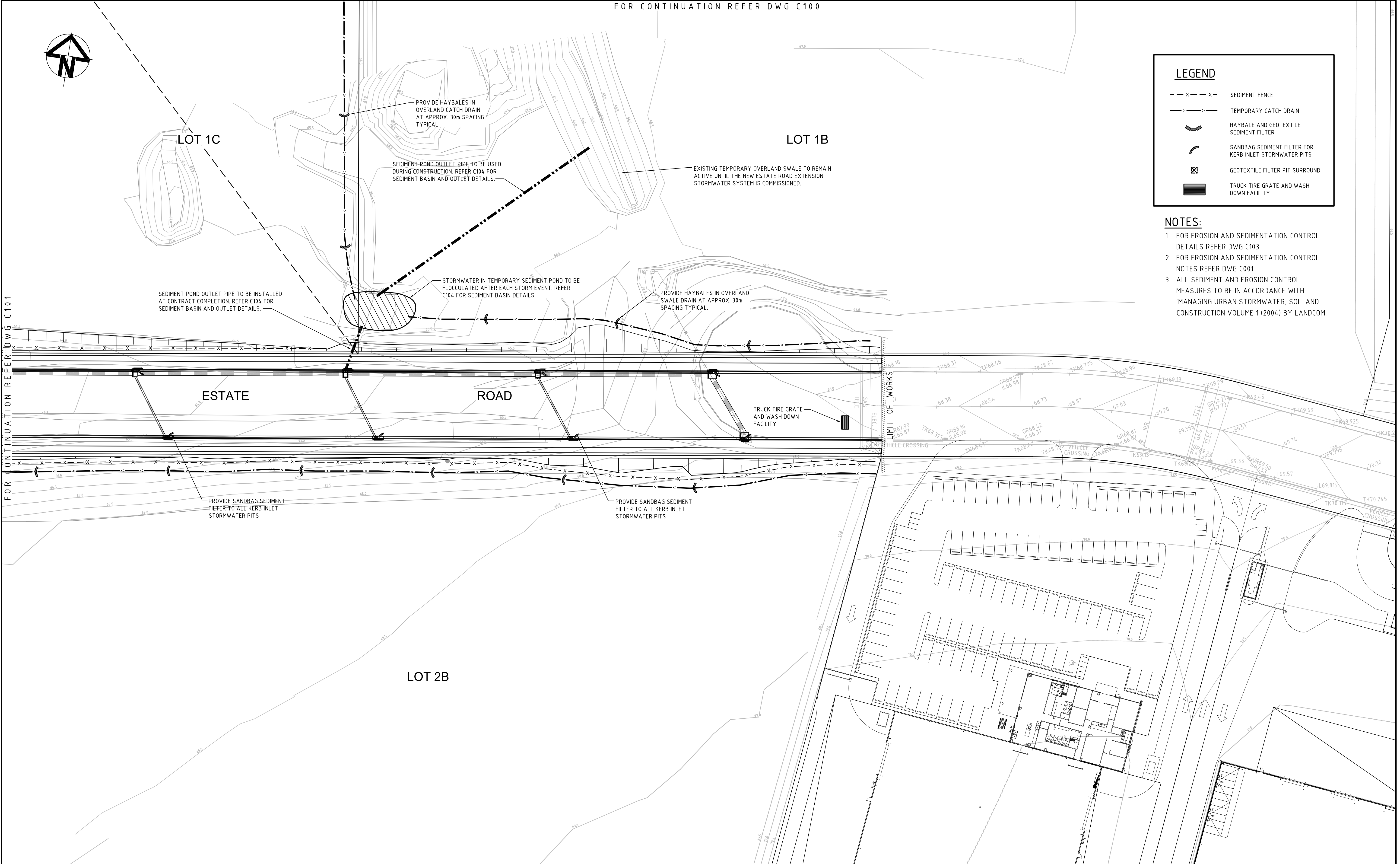
Drawn	MM
Designed	MM
Checked	AMcL
Approved	

Project
**OAKDALE CENTRAL
STAGE 2
ESTATE ROAD EXTENSION**

Title
**SEDIMENTATION AND
EROSION CONTROL
PLAN
SHEET 2**

Civil Engineers and Project Managers
 Suite 702, 6A Glen Street
Milsons Point NSW 2061
ABN 96 130 882 405
Tel: 02 8920 2466
Fax: 02 9922 5102
www.atl.net.au
info@atl.net.au

Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	Project No. 12-79	Issue C
--	----------------------	------------



C	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
B	RE-ISSUED FOR S75W APPROVAL	27/07/12
A	ISSUED FOR S75W APPROVAL	25/06/12
Issue	Description	Date

Bar Scales

0 10 20 30 40m

1 : 400

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Client

Goodman

Scales	1 : 400
Grid	MGA
Height Datum	AHD

Drawn	TS
Designed	TS
Checked	AMcL
Approved	

Project

OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION

Title

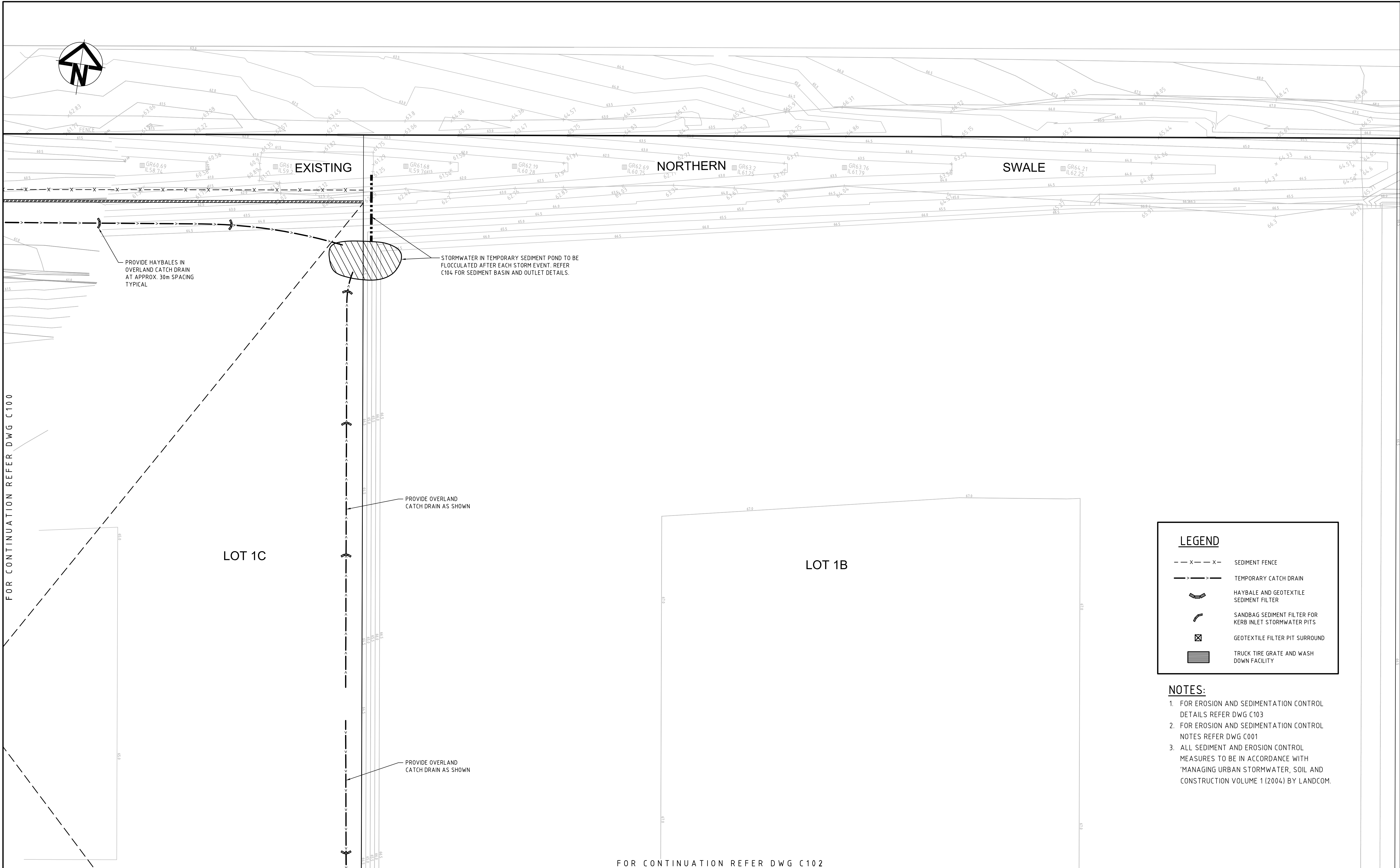
SEDIMENTATION AND EROSION CONTROL PLAN SHEET 3

Civil Engineers and Project Managers

AT&L

Suite 702, 6A Glen Street
Milsons Point NSW 2061
ABN 96 130 882 405
Tel: 02 8920 2466
Fax: 02 9922 5102
www.atl.net.au
info@atl.net.au

Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	Project No.	Issue
C102	12-79	C



LEGEND

-- x -- x --

SEDIMENT FENCE

-- > -- > --

TEMPORARY CATCH DRAIN

HAYBALE AND GEOTEXTILE SEDIMENT FILTER

SANDBAG SEDIMENT FILTER FOR KERB INLET STORMWATER PITS

GEOTEXTILE FILTER PIT SURROUND

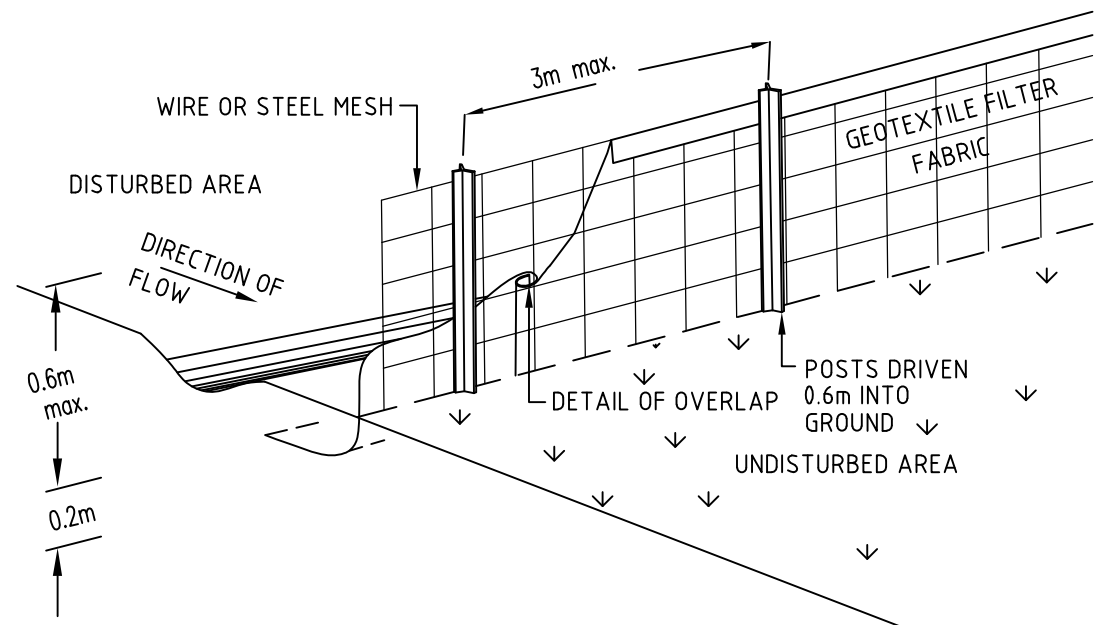
TRUCK TIRE GRATE AND WASH DOWN FACILITY

- NOTES:
1. FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER DWG C103

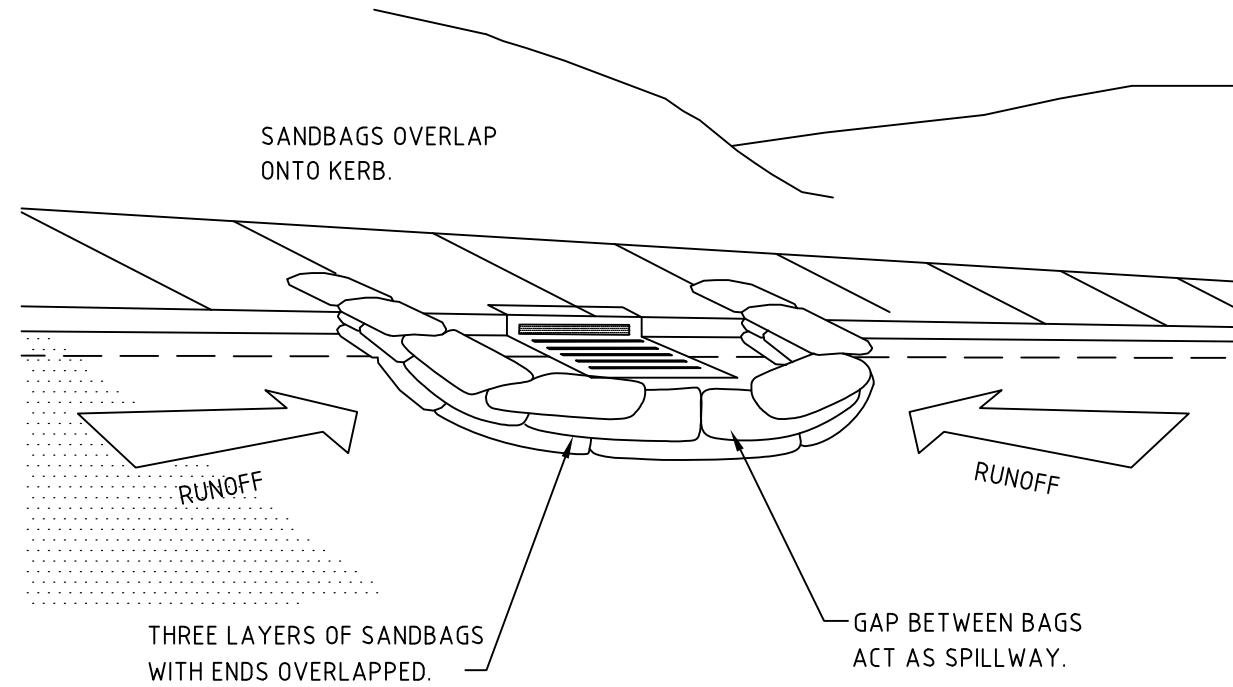
2. FOR EROSION AND SEDIMENTATION CONTROL NOTES REFER DWG C001

3. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, SOIL AND CONSTRUCTION VOLUME 1 (2004) BY LANDCOM.

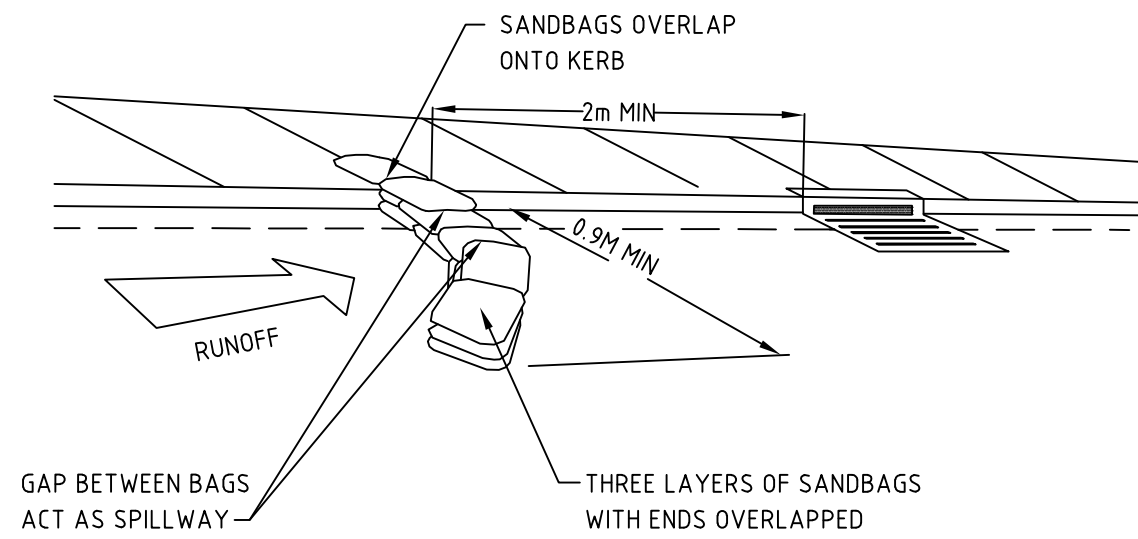
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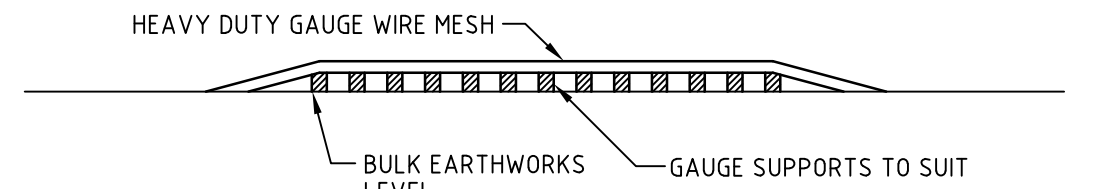
SEDIMENT FENCE
NTS



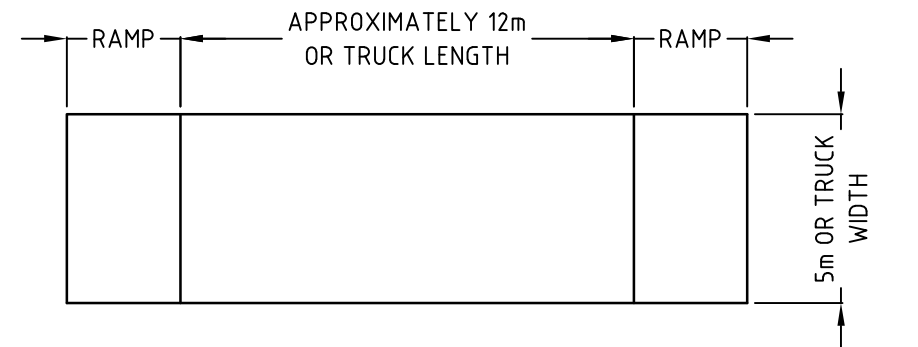
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FOR KERB INLET AT LOWPOINT**
NTS



**SANDBAG SEDIMENT TRAP
FOR KERB INLET ON GRADE**
NTS



ELEVATION

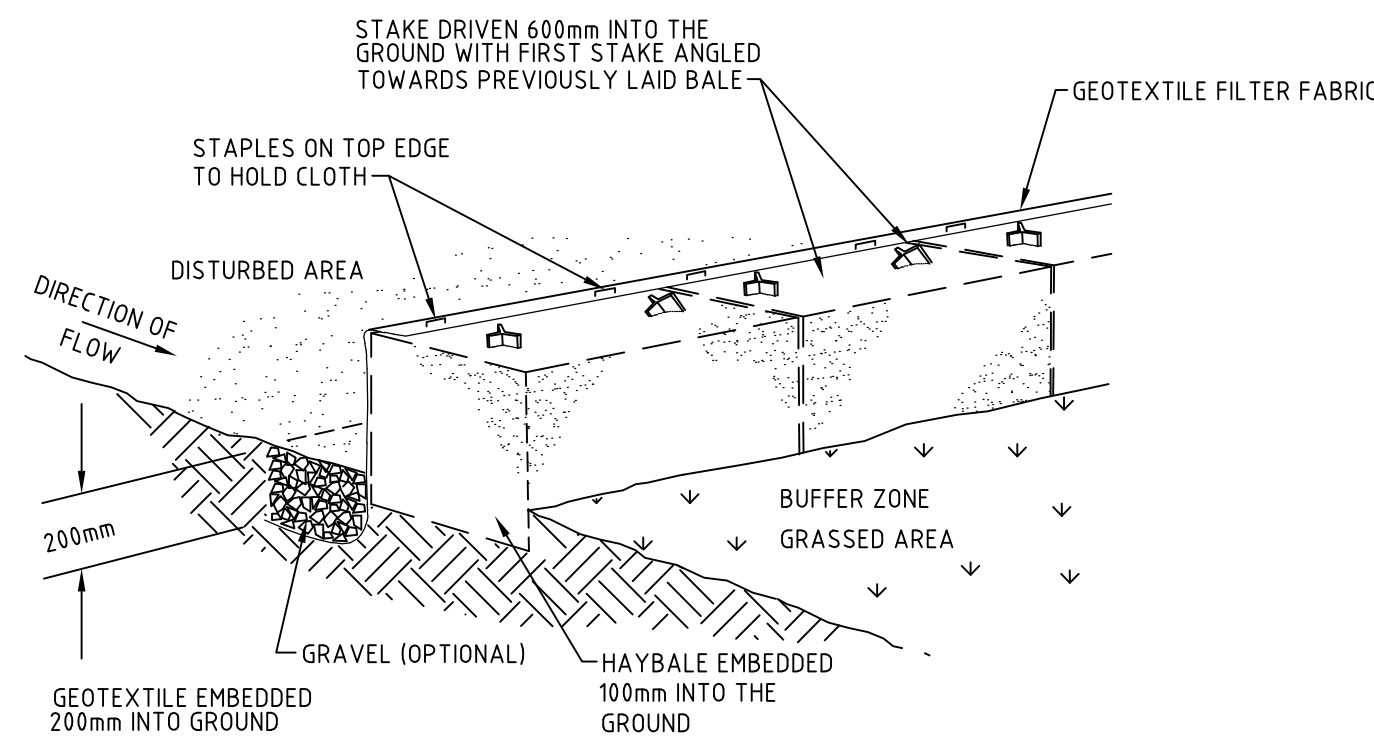


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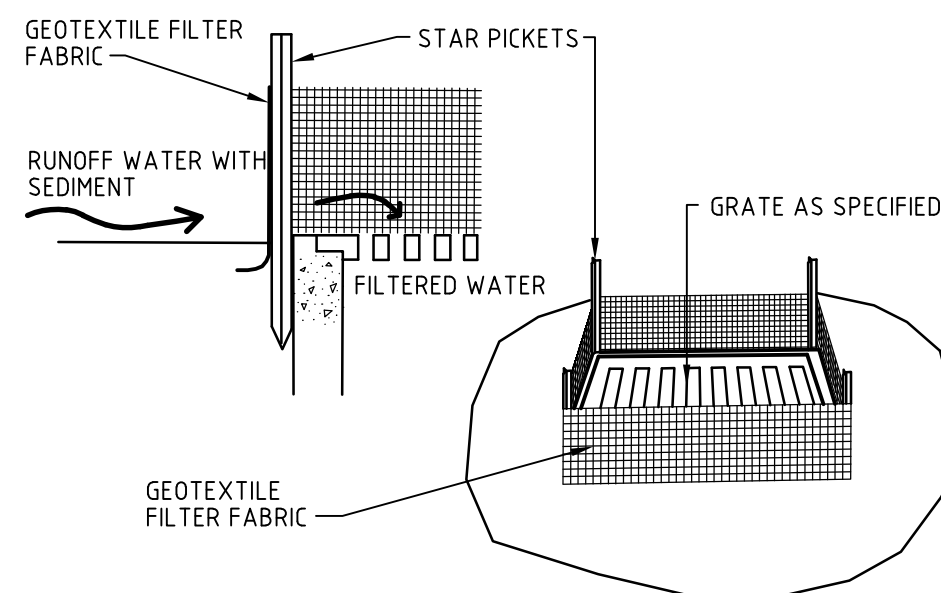
**TEMPORARY CONSTRUCTION EXIT
(WASH DOWN DETAIL)**

SCALE 1:200

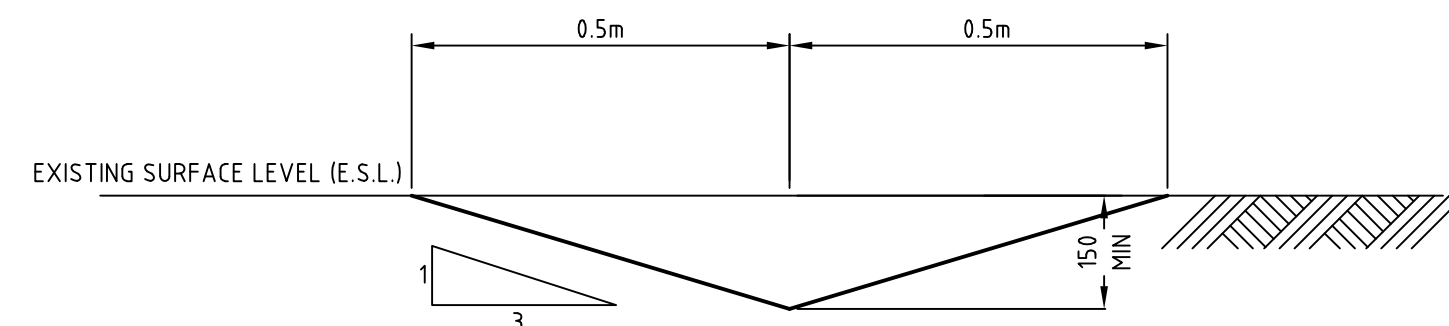
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.



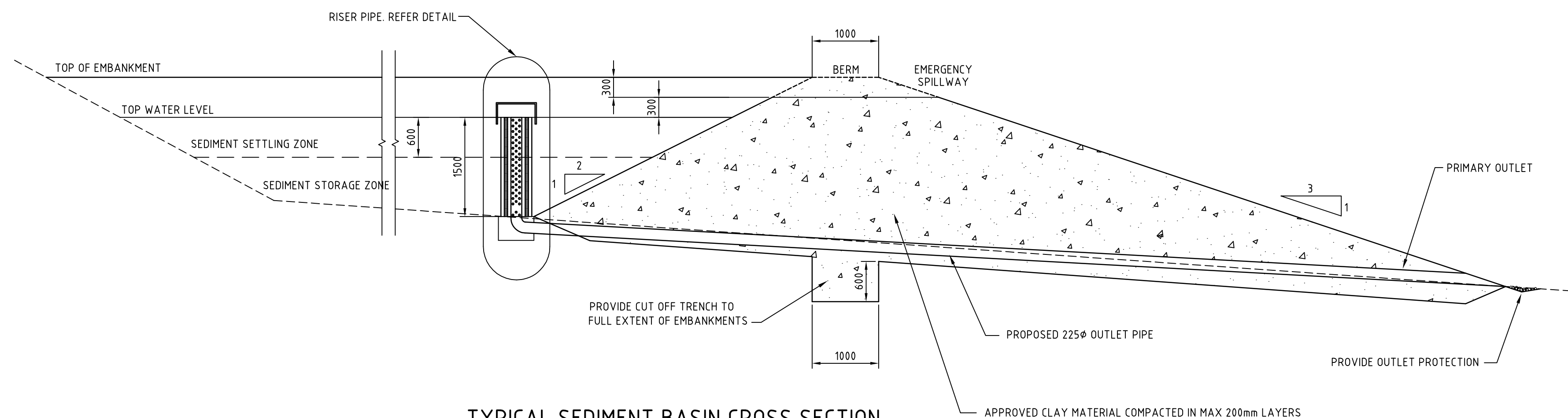
HAYBALE AND GEOTEXTILE SEDIMENT FILTER
NTS



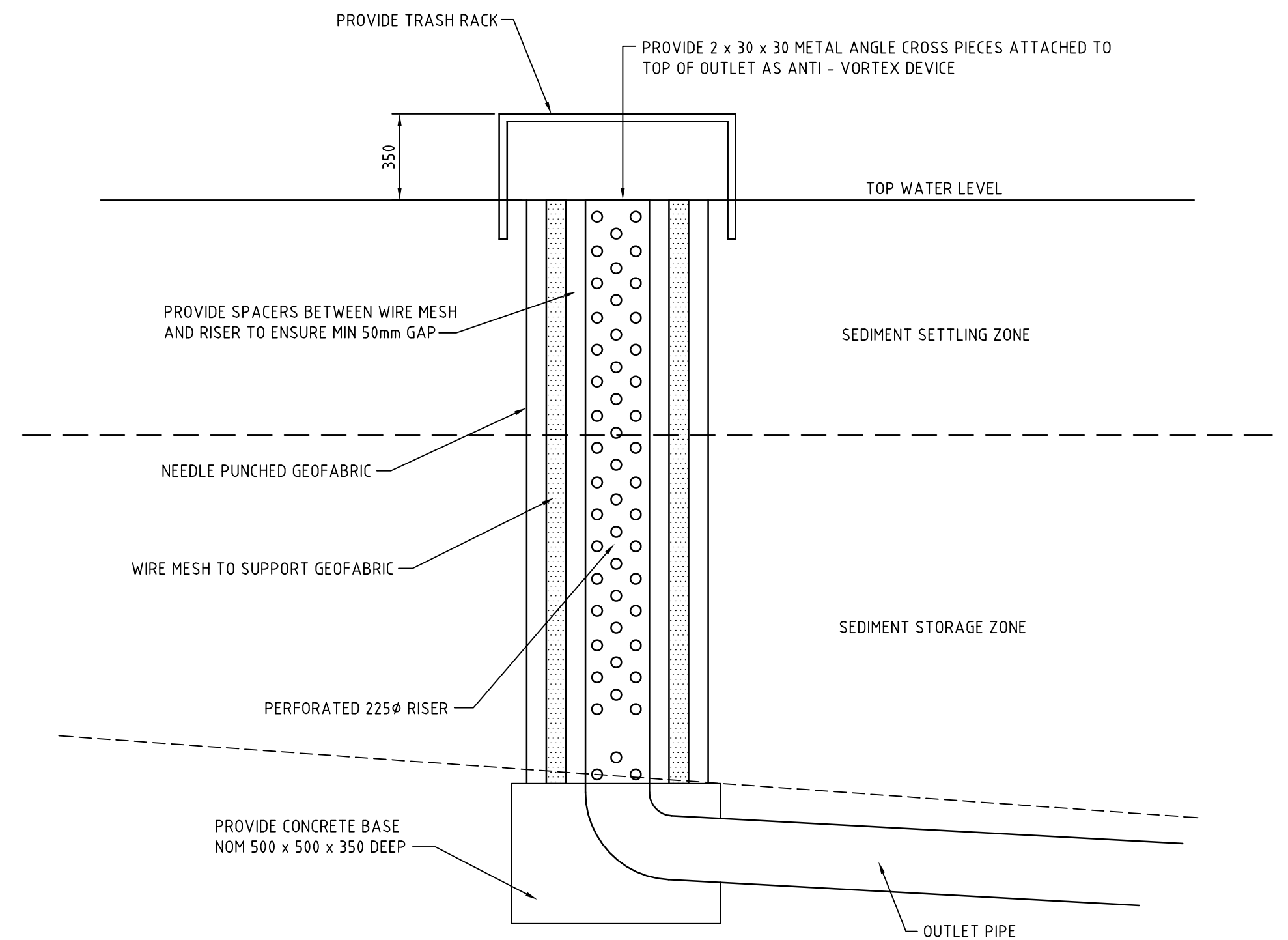
GEOTEXTILE FILTER PIT SURROUND
NTS



TEMPORARY CATCH DRAIN
(MIN FALL 1%)
SCALE 1:10



TYPICAL SEDIMENT BASIN CROSS SECTION
1 : 50
TYPICAL FOR ALL SEDIMENT BASINS



RISER PIPE DETAIL
1 : 20

C	ISSUED FOR S75W MOD 5 APPLICATION	11/10/12
B	RE-ISSUED FOR S75W APPROVAL	27/07/12
A	ISSUED FOR S75W APPROVAL	25/06/12
Issue	Description	Date


Bar Scales	0 100 200 400 600 800 1000mm
	1 : 10
	0 500 1000 1500 2000mm
	1 : 20
	0 1 2 3 4 5m
	1 : 50
	0 5 10 15 20m
	1 : 200

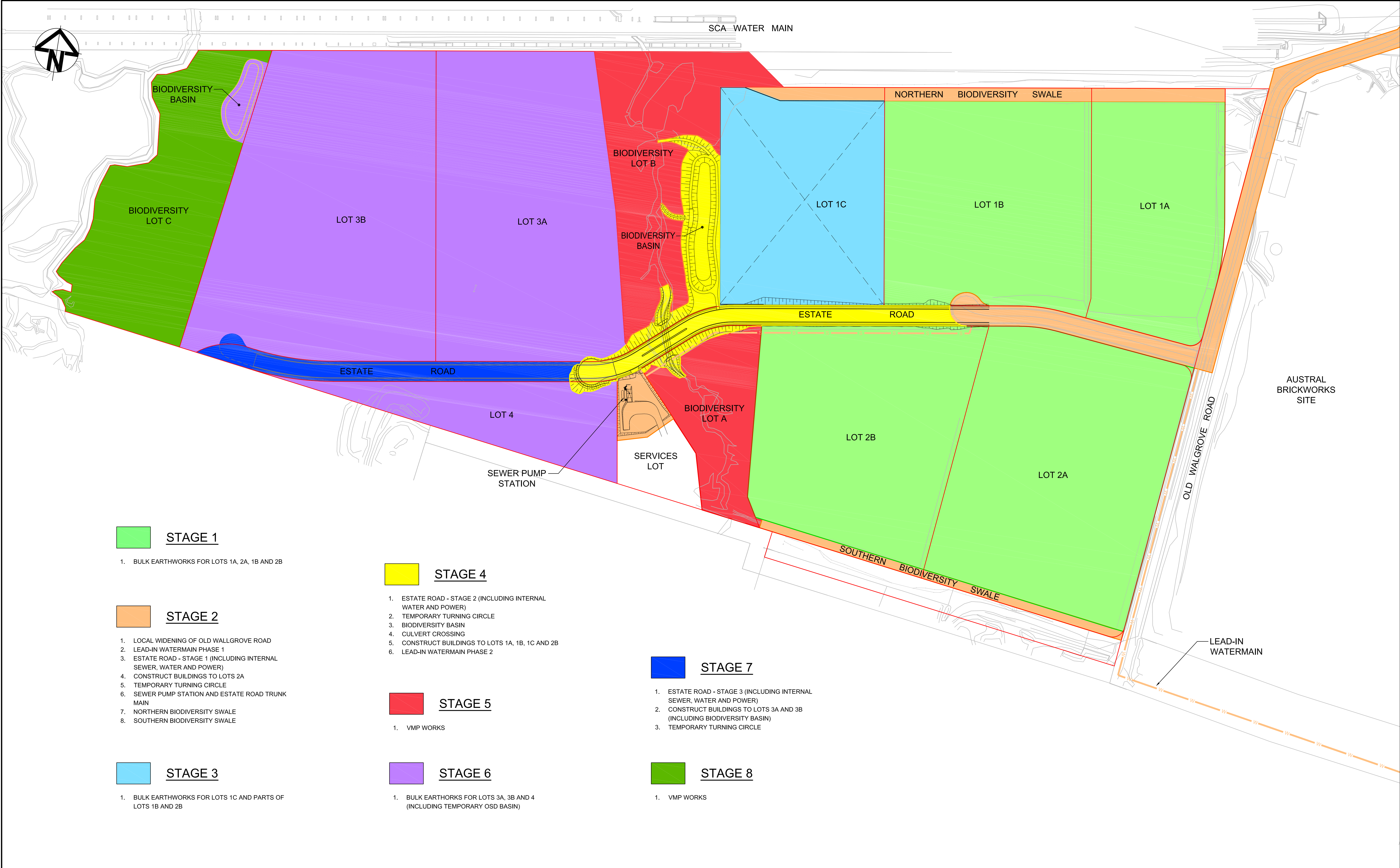
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L



Scales	AS SHOWN	Drawn	TS
		Designed	TS
Grid	-	Checked	AMcL
Height Datum	-	Approved	

Project	OAKDALE CENTRAL STAGE 2 ESTATE ROAD EXTENSION
Title	SEDIMENTATION AND EROSION CONTROL DETAILS

Civil Engineers and Project Managers		Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au
 AT&L		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No. C104	Project No. 12-79	Issue C



STAGE 1

1. BULK EARTHWORKS FOR LOTS 1A, 2A, 1B AND 2B

STAGE 2

1. LOCAL WIDENING OF OLD WALGROVE ROAD
2. LEAD-IN WATERMAIN PHASE 1
3. ESTATE ROAD - STAGE 1 (INCLUDING INTERNAL SEWER, WATER AND POWER)
4. CONSTRUCT BUILDINGS TO LOTS 2A
5. TEMPORARY TURNING CIRCLE
6. SEWER PUMP STATION AND ESTATE ROAD TRUNK MAIN
7. NORTHERN BIODIVERSITY SWALE
8. SOUTHERN BIODIVERSITY SWALE

STAGE 3

1. BULK EARTHWORKS FOR LOTS 1C AND PARTS OF LOTS 1B AND 2B

STAGE 4

1. ESTATE ROAD - STAGE 2 (INCLUDING INTERNAL WATER AND POWER)
2. TEMPORARY TURNING CIRCLE
3. BIODIVERSITY BASIN
4. CULVERT CROSSING
5. CONSTRUCT BUILDINGS TO LOTS 1A, 1B, 1C AND 2B
6. LEAD-IN WATERMAIN PHASE 2

STAGE 5

1. VMP WORKS

STAGE 6

1. BULK EARTHWORKS FOR LOTS 3A, 3B AND 4 (INCLUDING TEMPORARY OSD BASIN)

STAGE 7

1. ESTATE ROAD - STAGE 3 (INCLUDING INTERNAL SEWER, WATER AND POWER)
2. CONSTRUCT BUILDINGS TO LOTS 3A AND 3B (INCLUDING BIODIVERSITY BASIN)
3. TEMPORARY TURNING CIRCLE

STAGE 8

1. VMP WORKS

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