

780 WALLGROVE ROAD, HORSLEY PARK

BRICKWORKS PLANT 2 UPGRADE

CIVIL WORKS PACKAGE

DRAWING LIST

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LOCALITY PLAN
N.T.S

			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>BRICKWORKS LIMITED</div>	Scales <div>GridMGA</div> <div>Height DatumAHD</div>	<div>DrawnQD</div> <div>DesignedQD</div> <div>CheckedSH</div> <div>ApprovedSH</div>	Project BRICKWORKS PLANT2 UPGRADE 780 WALLGROVE ROAD HORSLEY PARK	Civil Engineers and Project Managers <div>at&l</div> <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9423 1055 www.atl.net.au info@atl.net.au</div>	
D	RE-ISSUED FOR DEVELOPMENT APPROVAL	20-03-20								
C	ISSUED FOR DEVELOPMENT APPROVAL	10-05-19								
B	ISSUED FOR REVIEW	09-04-19								
A	ISSUED FOR INFORMATION	03-11-18								
Issue	Description	Date								
							Title COVER SHEET, DRAWING LIST AND LOCALITY PLAN	Status FOR REVIEW		A1
								NOT TO BE USED FOR CONSTRUCTION		
								Drawing No. DAC001	Project No. 18-577	

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 ADMXTURES 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 REFERENCE NUMBER FOR FABRIC TO AS 1304.
8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:



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- 215 mm/hr
1-20 YEARS- 168 mm/hr
(C) RUNOFF COEFFICIENTS:
ROOF AREAS: C₁₀₀ = 1.0
EXTERNAL PAVEMENTS: C₂₀ = 0.95
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '3' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
6. PIPES TO BE INSTALLED TO TYPE HS1 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 (2018) AND AS/NZS 3500 3.2 (2018).
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. 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.
15. 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.

SITEWORKS NOTES

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

SURVEY NOTES

- THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY CARDNO , BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESGN. 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.
- LIMITED SURVEY OF THE ROAD PAVEMENT HAS BEEN UNDERTAKEN SHOULD ANY DESIGN WORKS BE UNDERTAKEN AFFECTING THE ROADS HEREON THEN ADDITIONAL SURVEY MAY BE REQUIRED.
 - HEIGHT OF FENCES WHERE SHOWN ARE APPROXIMATE ONLY.
 - THE INFORMATION SHOWN IN GREYSCALE IS THE DRAWING PROVIDED TO CARDNO (130604-DETAIL.DWG)
 - THE BLUE ARE BOUNDARIES WITHIN LAYER "APPROX BDYS-DCDB" COLOURED BLUE) ARE APPROXIMATE ONLY AND ARE NOT BE RELIED UPON FOR ANY DESIGN OR CONSTRUCTION.

SYMBOL LEGEND

⊕	TELSTRA PIT
Ⓢ	TELSTRA DISTRIBUTION PILLAR
⊗	BOLLARD
⚡	POWER POLE WITH LIGHT
⊖	LIGHT POLE
⊗	SEWER MANHOLE
⊗	SEWER LAMPHOLE
⊗	WATER AIR VALVE
⊗	WATER HYDRANT
⬛	GAS BOX
●	GAS MARKER POST
—	SIGN
⚑	FLAG POLE
⚡	BASEMENT/CARPARK LEVEL

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

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

LAND DISTURBANCE

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

EROSION CONTROL

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

SEDIMENT CONTROL

- STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

- WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

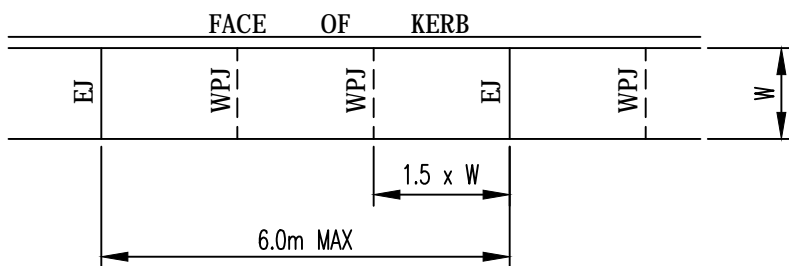
OTHER MATTERS

- ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
 - PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
 - ENSURING THAT NOTHING IS NAILED TO THEM
 - PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS:
 - ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
 - A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

JOINTING NOTES

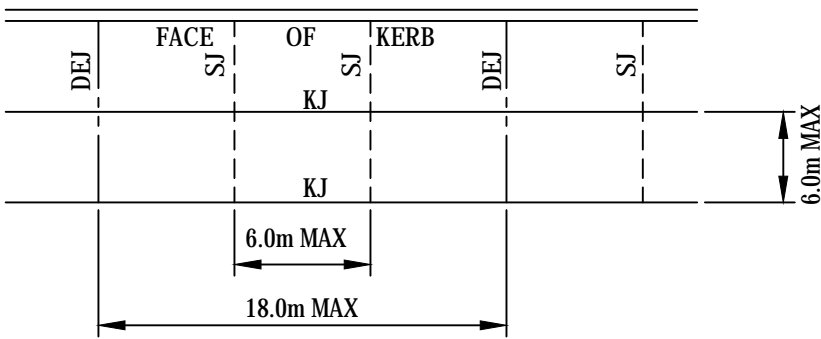
PEDESTRIAN PAVEMENT JOINTS

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



VEHICULAR PAVEMENT JOINTS

- ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)
- KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
- SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 18.0m CENTRES
- VEHICULAR PAVEMENT JOINT DETAIL.



EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

AT & L 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.



			Bar Scales
C	ISSUED FOR DEVELOPMENT APPROVAL	10-05-19	
B	ISSUED FOR REVIEW	09-04-19	
A	ISSUED FOR INFORMATION	03-11-18	
Issue	Description	Date	

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Project	BRICKWORKS PLANT2 UPGRADE 780 WALLGROVE ROAD HORSLEY PARK	
Title	GENERAL NOTES AND LEDENDS	

Civil Engineers and Project Managers		
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Status	FOR REVIEW NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	Project No.	Issue
DAC002	18-577	C



LEGEND

PROPOSED PLANT 2
UPGRADE EXTENTS
AREA: APPROX. 28,200m²

TOTAL BRICKWORKS
SITE AREA: 823,000m²

EXISTING GAS PIPELINE

EXISTING EASEMENT

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Bar Scales

050100150200m

1 : 2500 @ A1

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Client

BRICKWORKS

LIMITED

Scales	1 : 2500	Drawn	QD
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Height Datum	AHD	Approved	

Project

BRICKWORKS
PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK

Title

SITE CONTEXT PLAN

Civil Engineers and Project Managers

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Status

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Drawing No.

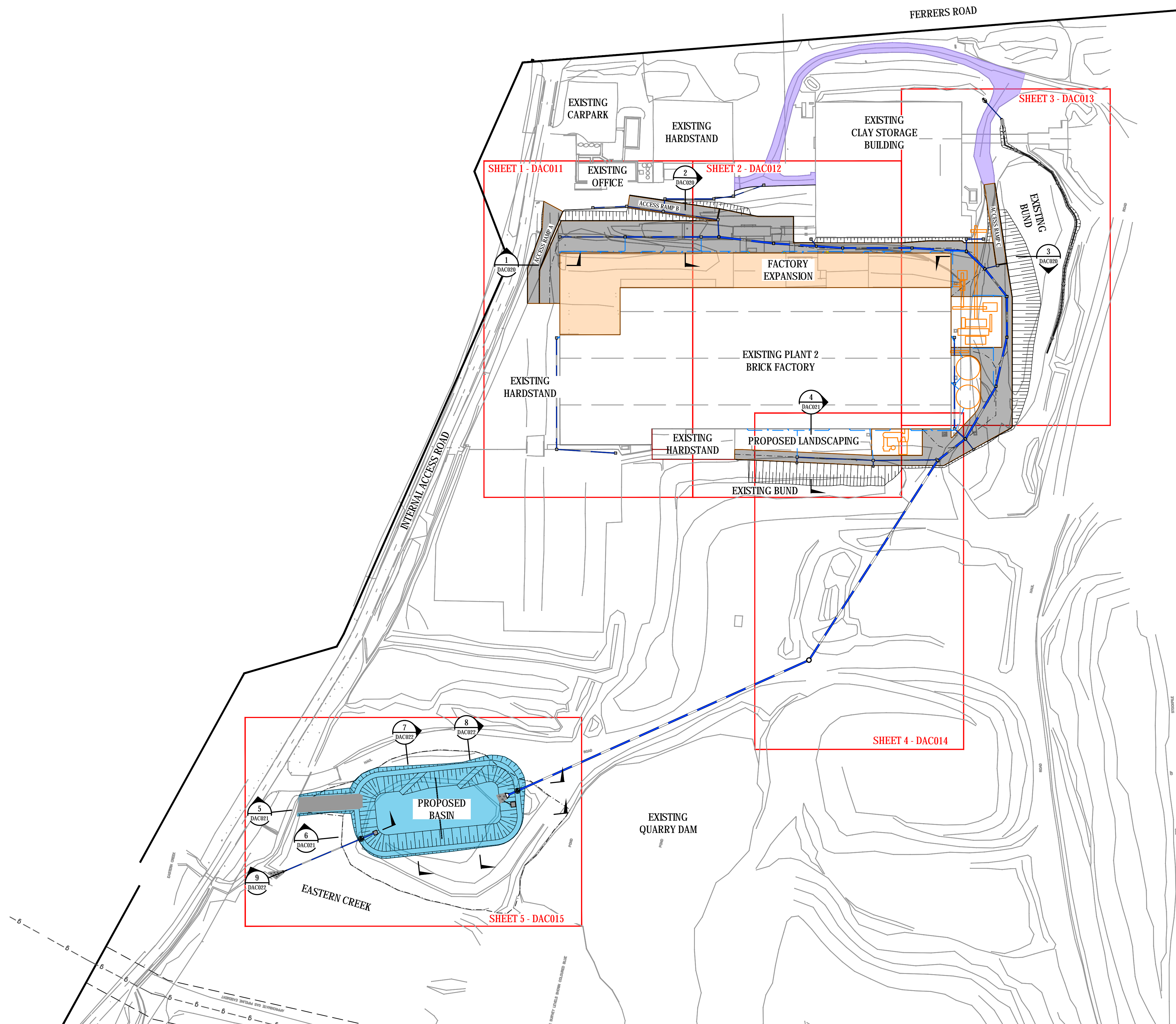
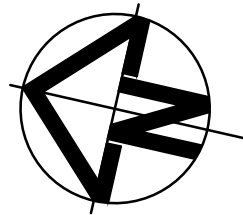
DAC003

Project No.

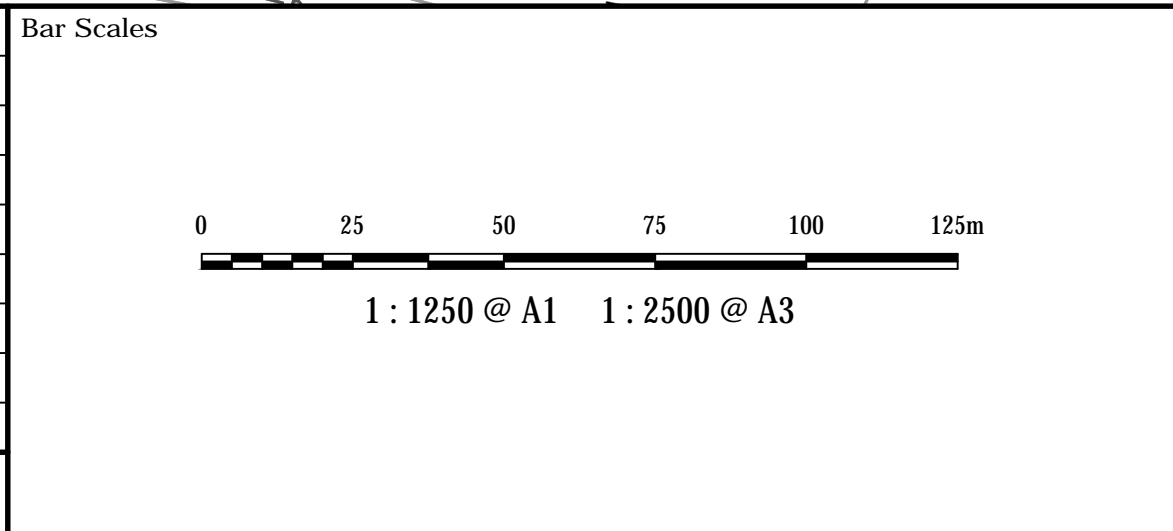
18-577

Issue

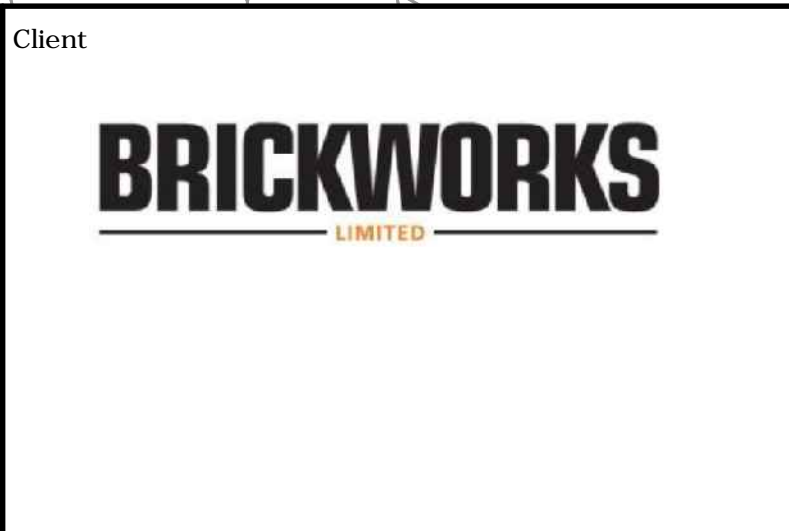
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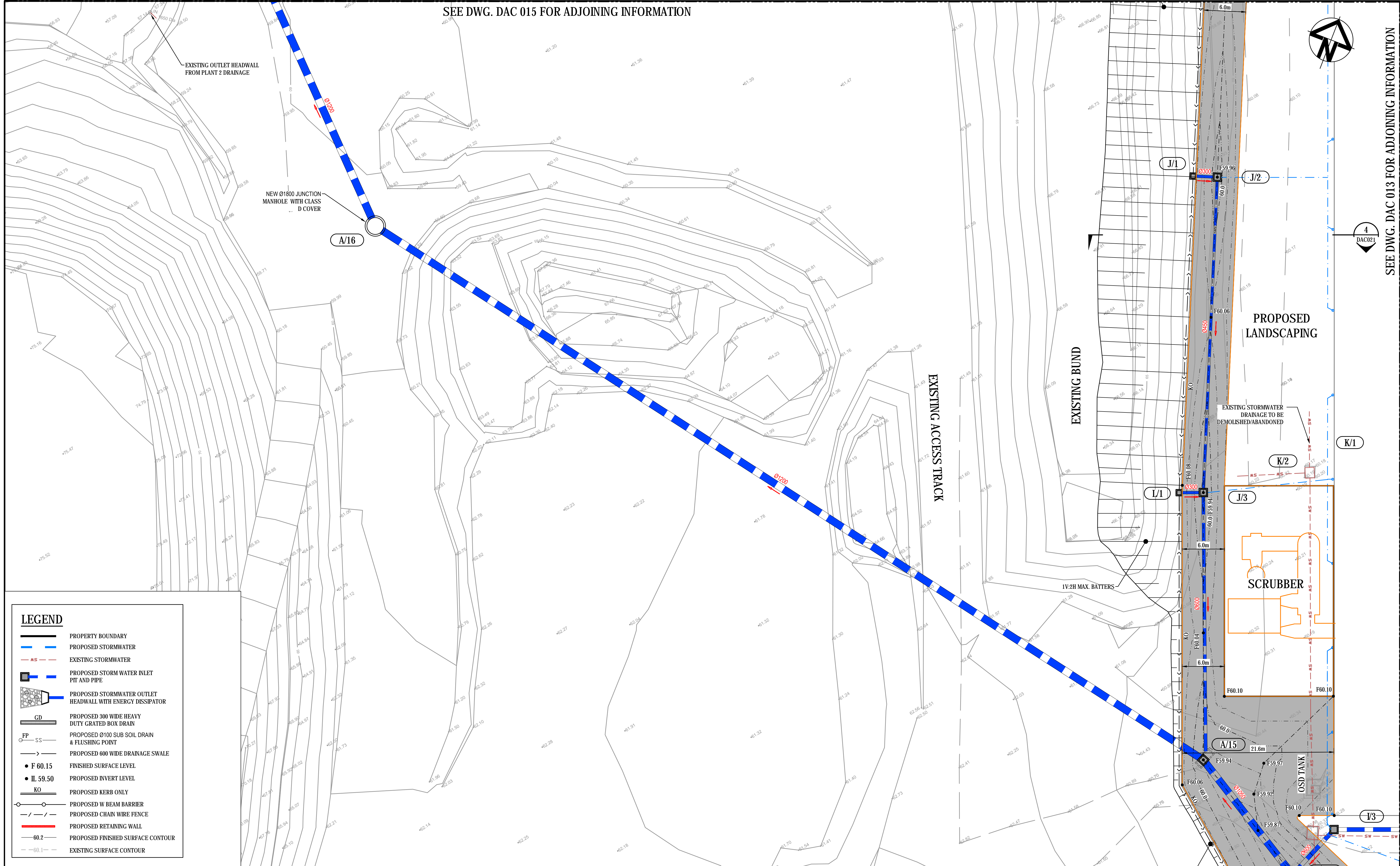
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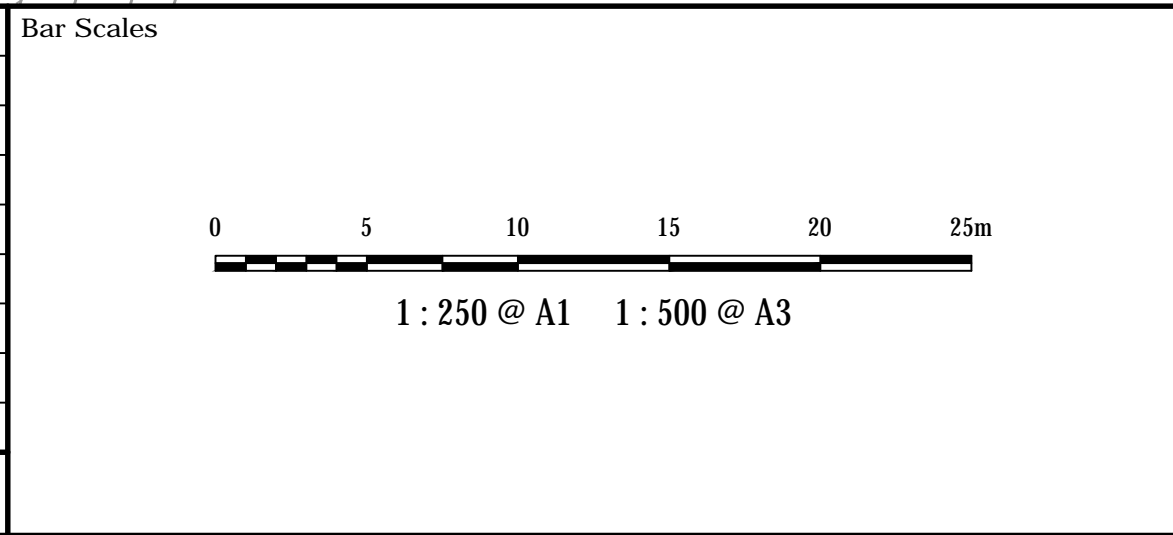
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Project	BRICKWORKS PLANT2 UPGRADE 780 WALLGROVE ROAD HORSLEY PARK
Title	GENERAL ARRANGEMENT PLAN

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DAC004	18-577	D



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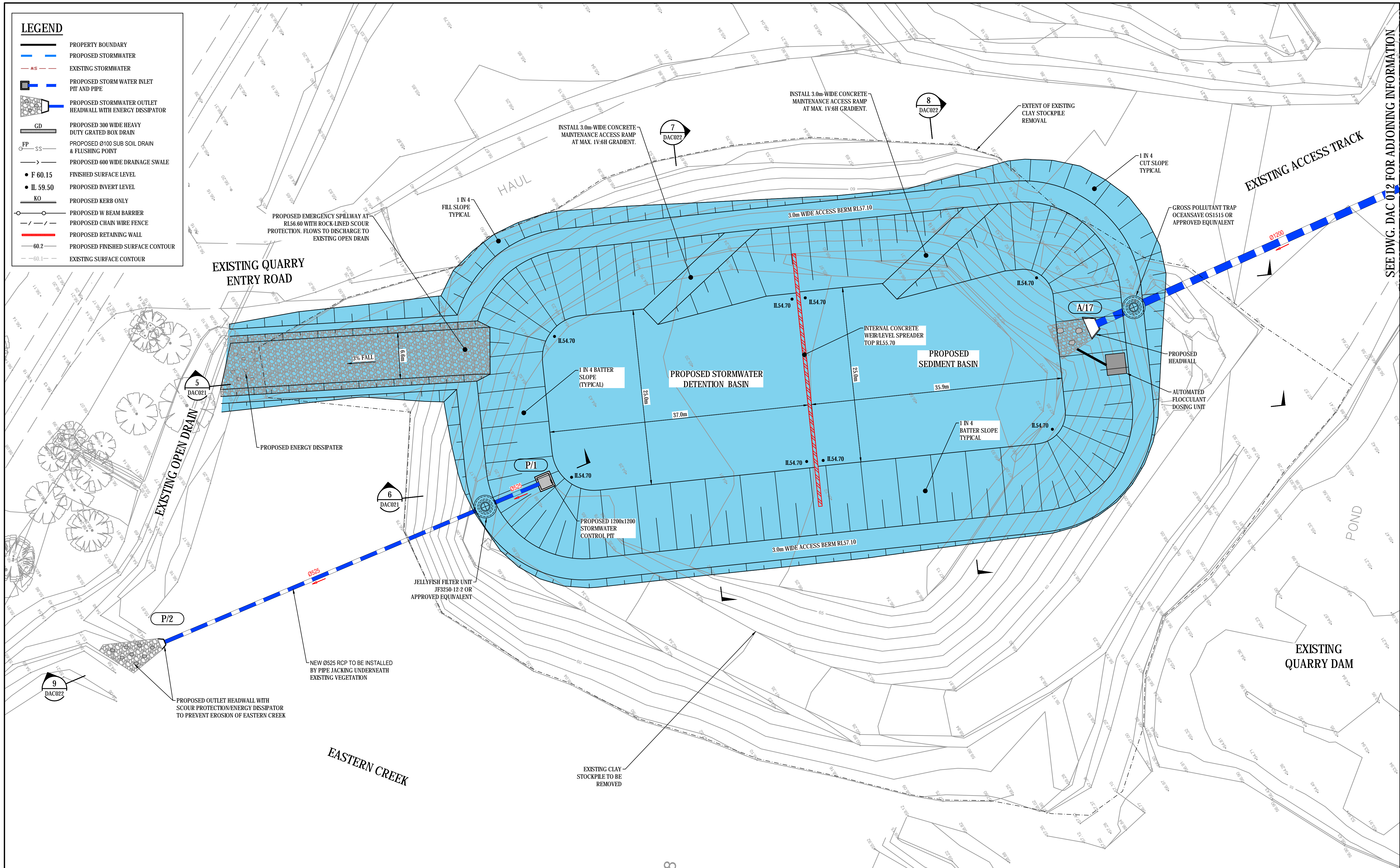
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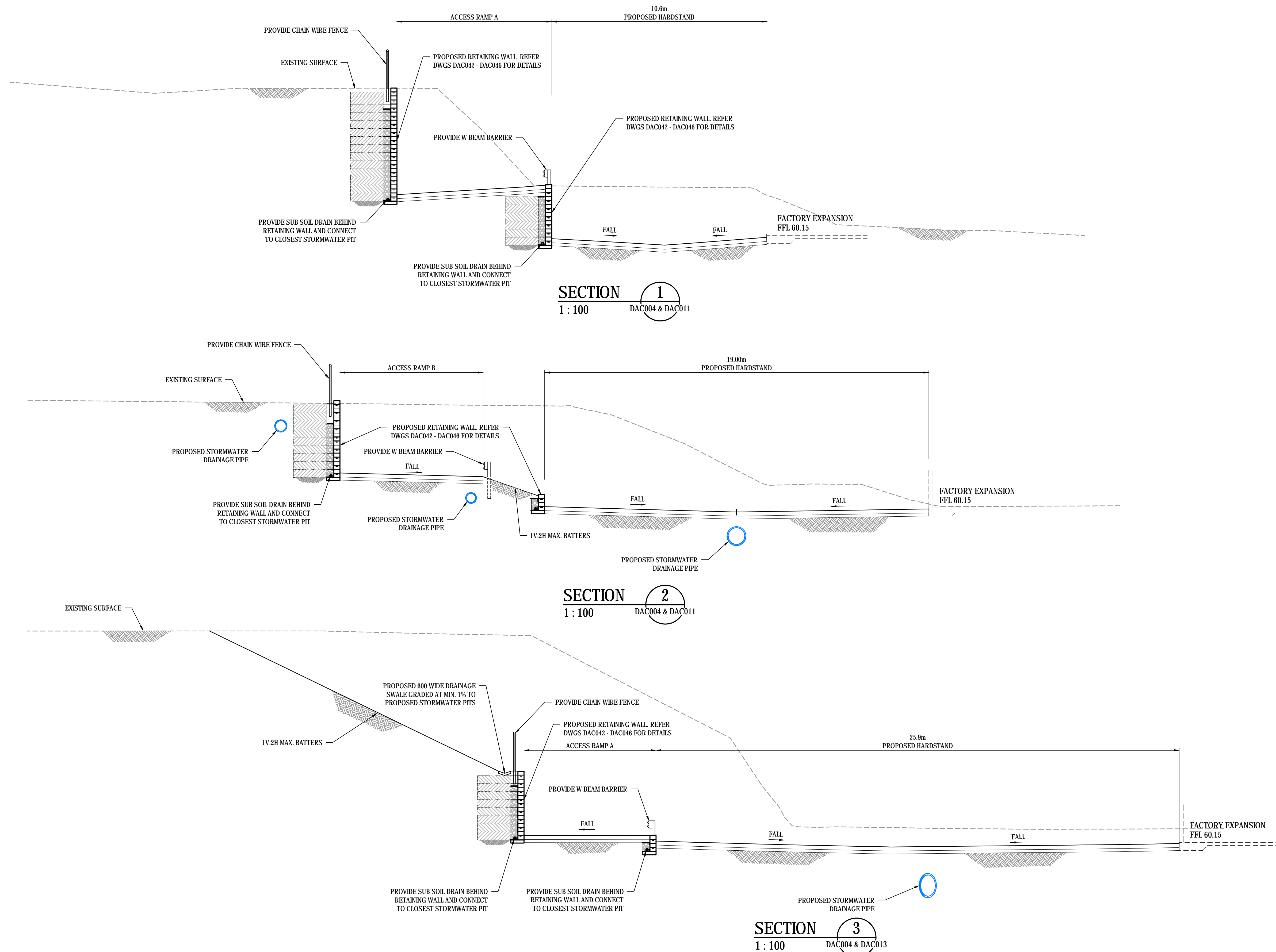
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		Designed	QD
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Height Datum	AHD	Approved	

Project	BRICKWORKS PLANT2 UPGRADE 780 WALLGROVE ROAD HORSLEY PARK
Title	SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 4

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Project No.	18-577	C



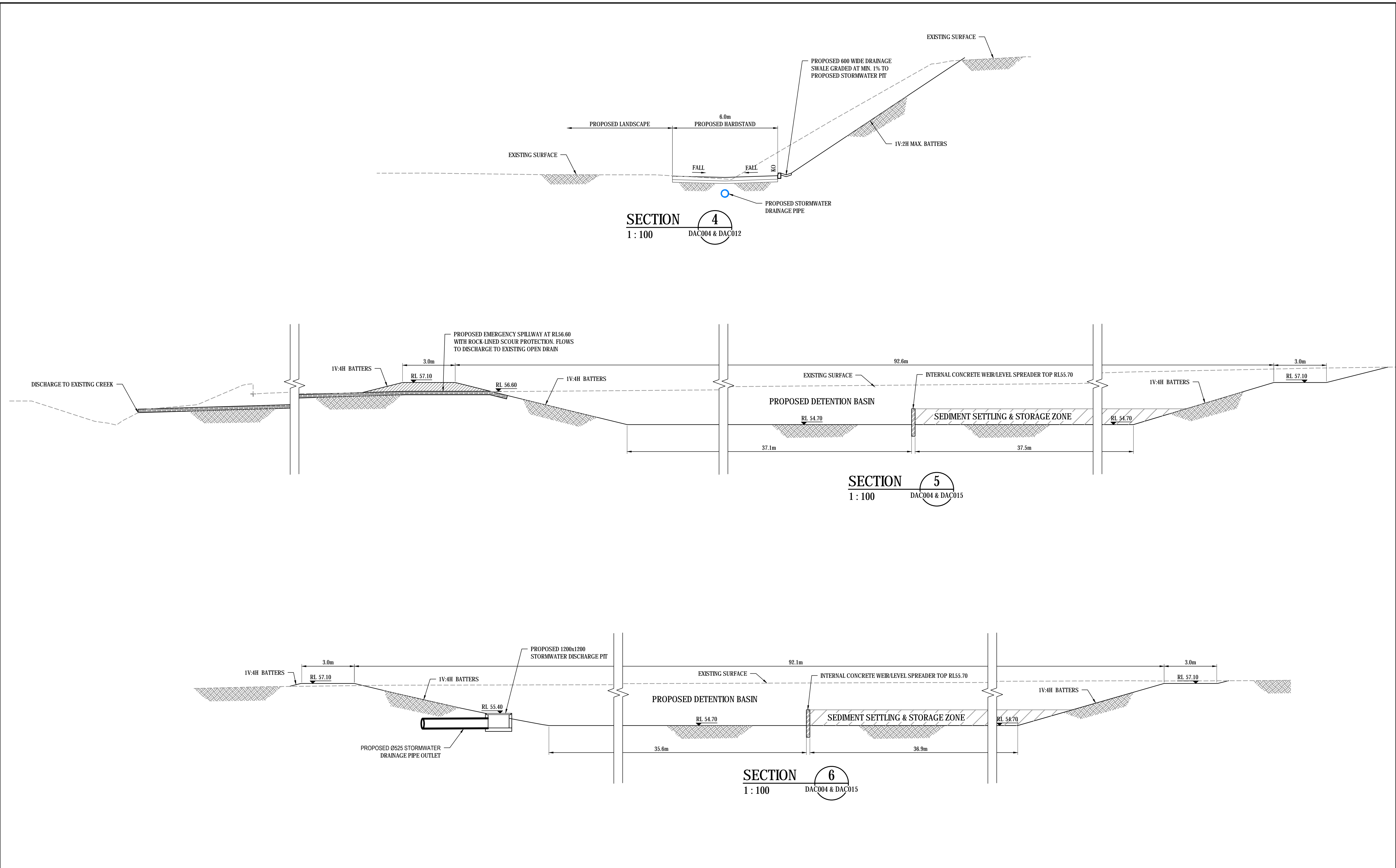
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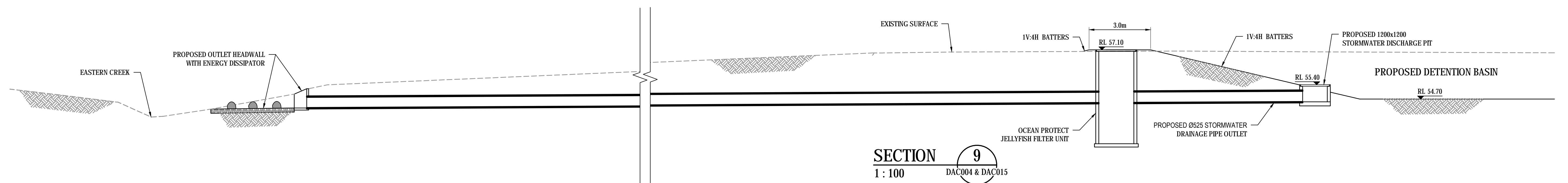
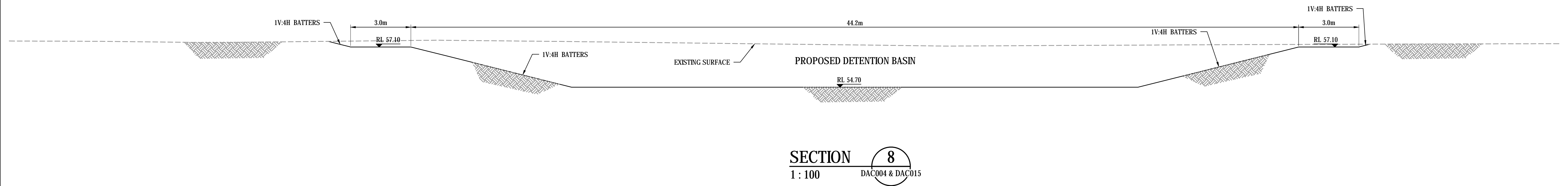
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<div><div>C</div><div>ISSUED FOR DEVELOPMENT APPROVAL</div><div>10-05-19</div></div> <div><div>B</div><div>ISSUED FOR REVIEW</div><div>09-04-19</div></div> <div><div>A</div><div>ISSUED FOR INFORMATION</div><div>03-11-18</div></div>													<div>Status</div> <div>FOR REVIEW</div> <div>NOT TO BE USED FOR CONSTRUCTION</div>		<div>A1</div>			
<div><div>Issue</div><div>Description</div><div>Date</div></div>													<div>Drawing No.</div> <div>DAC020</div>		<div>Project No.</div> <div>18-577</div>		<div>Issue</div> <div>C</div>	

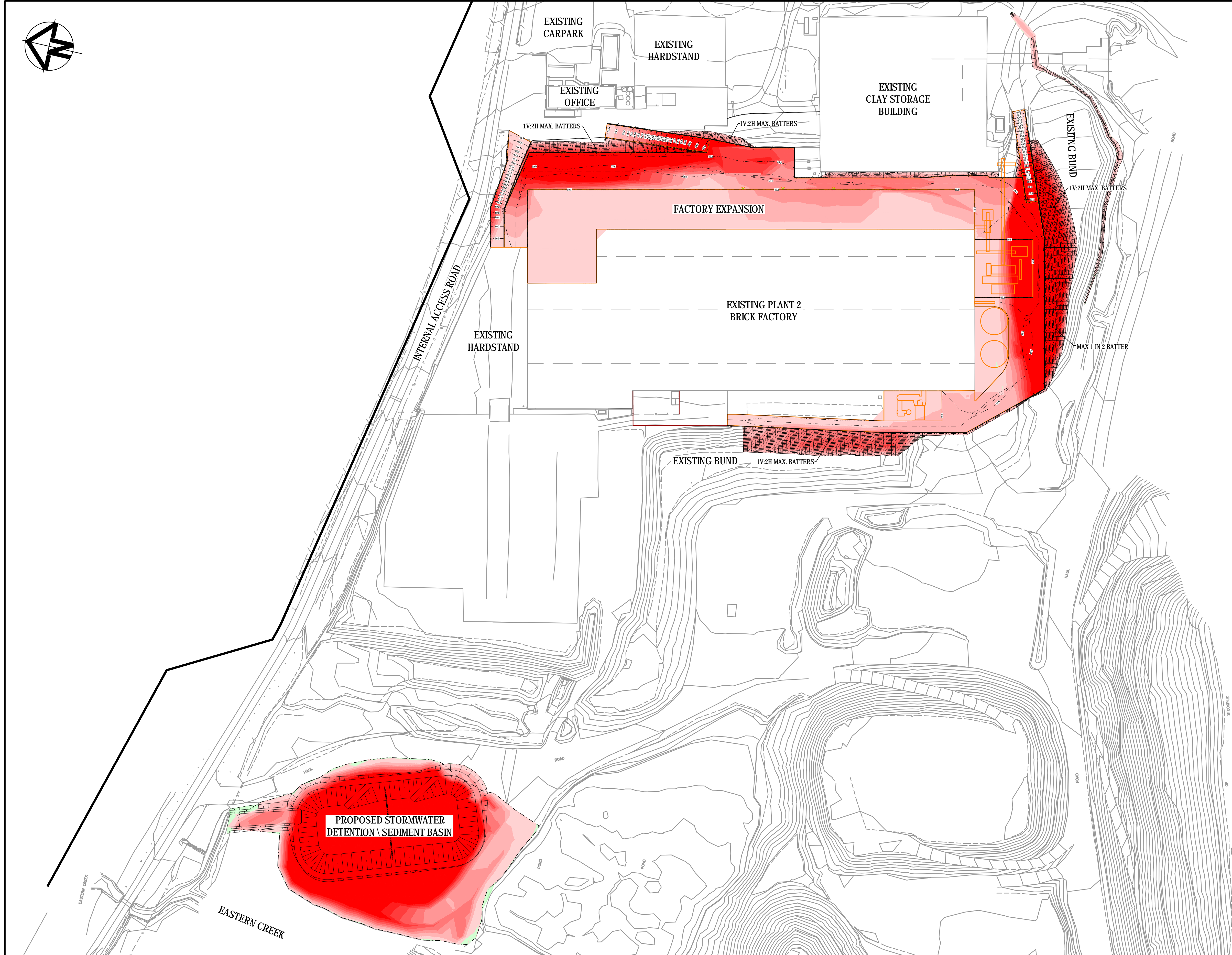
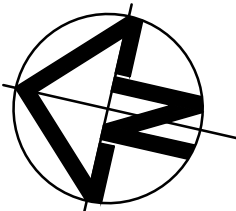
100mm on Original

Date Plotted: 13 Mar 2020 - 04:21PM File Name: F:\18-577 Brickworks Plant 2\Drgs\Civil\Final\DA\DAC020.dwg



			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>BRICKWORKS LIMITED</div>	Scales		Drawn		Project		Civil Engineers and Project Managers				
							1 : 100		Designed		QD		BRICKWORKS PLANT2 UPGRADE 780 WALLGROVE ROAD HORSLEY PARK		<div>at&l</div> <div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9423 1055 www.atl.net.au info@atl.net.au</div>		
							Grid MGA		Checked		SH						
							Height Datum		Approved		SH						
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													TYPICAL SECTIONS SHEET 2		FOR REVIEW		
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													Drawing No.				
													Project No.				
													Issue				
													DAC021				
													18-577				
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[illegible]



NOTES

1. EARTHWORKS VOLUMES ARE APPROXIMATE ONLY AND DO NOT TAKE INTO ACCOUNT THE FOLLOWING:
- TOPSOIL STRIPPING
 - BULKING FACTORS OF REMOVED CUT
 - SERVICES & UTILITIES TRENCH SPOIL
 - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
 - PROPOSED LANDSCAPING
 - EXCAVATION OF RETAINING WALL FOOTING AND BACKFILL
2. PAVEMENT BOXING DEPTH HAS BEEN ASSUMED AS 300mm FOR PRELIMINARY DESIGN.

EARTHWORKS VOLUMES

ITEM	NET CUT VOLUME (m3)	NET FILL VOLUME (m3)	BALANCE VOLUME (m3)
PLANT 2 AREA	- 40,048	-	- 40,048
EXISTING STOCKPILE REMOVAL	- 46,968	-	- 46,968
DETENTION \ SEDIMENT BASIN	- 6,649	230	- 6,879
TOTALS	- 93,665	230	- 93,895

LEGEND

- PROPOSED RETAINING WALL
- 60.3 PROPOSED BULK EARTH WORKS CONTOUR
- - - 65.2 EXISTING SURFACE CONTOUR
- PROPERTY BOUNDARY

EARTHWORKS CUT/FILL LEGEND

Lower_value	Upper_value	Colour
-99999	to -3.5	m ■
-3.5	to -3	m ■
-3	to -2.5	m ■
-2.5	to -2	m ■
-2	to -1.5	m ■
-1.5	to -1	m ■
-1	to -0.5	m ■
-0.5	to 0.00	m ■
0.000	to .5	m ■
.5	to 1.0	m ■
1.0	to 1.5	m ■
1.5	to 2	m ■
2	to 2.5	m ■
2.5	to 3	m ■
3	to 3.5	m ■
3.5	to 9999	m ■

C	ISSUED FOR DEVELOPMENT APPROVAL	10-05-19
B	ISSUED FOR REVIEW	09-04-19
A	ISSUED FOR INFORMATION	03-11-18
Issue	Description	Date

Bar Scales

0100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

BRICKWORKS

LIMITED

Scales

1 : 1000

Grid MGA

Height Datum AHD

Drawn

Designed

Checked

Approved

QD

QD

SH

Project

BRICKWORKS PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK

Title

BULK EARTHWORKS CUT/FILL PLAN

Civil Engineers and Project Managers

at&l

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Fax: 02 9423 1055
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info@atl.net.au

Status

FOR REVIEW
NOT TO BE USED FOR CONSTRUCTION

A1

Drawing No.

Project No.

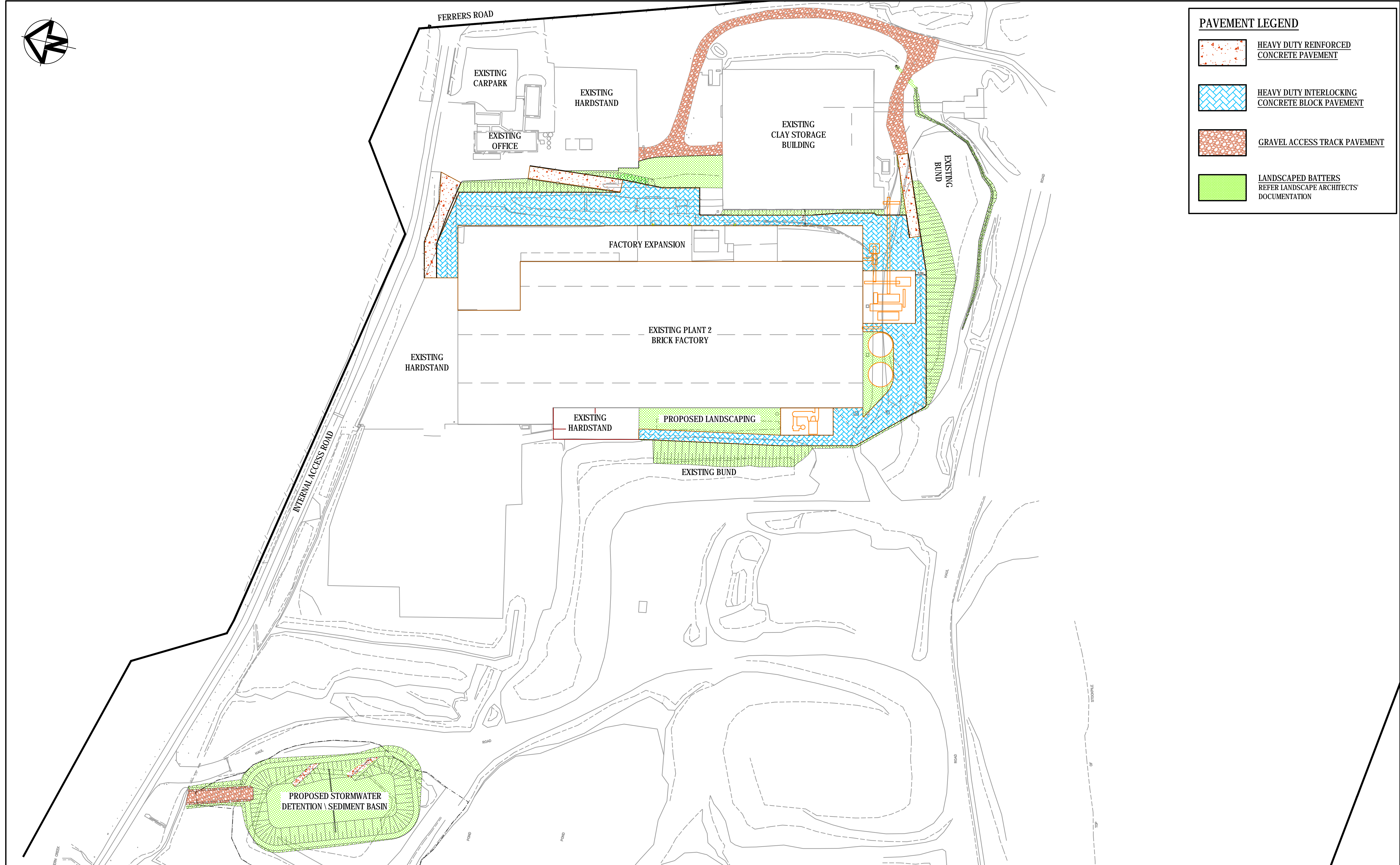
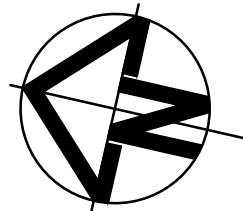
Issue

DAC030

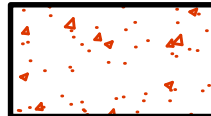
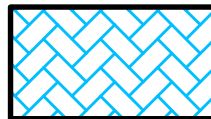
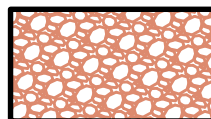
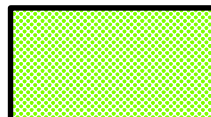
18-577

C

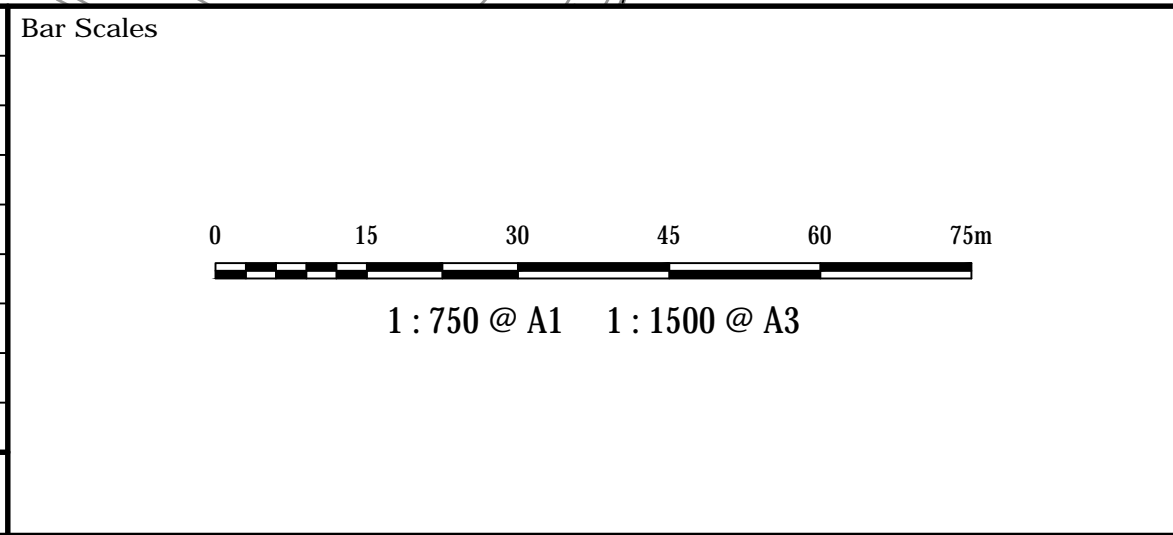
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PAVEMENT LEGEND


-  HEAVY DUTY REINFORCED CONCRETE PAVEMENT
-  HEAVY DUTY INTERLOCKING CONCRETE BLOCK PAVEMENT
-  GRAVEL ACCESS TRACK PAVEMENT
-  LANDSCAPED BATTERS
REFER LANDSCAPE ARCHITECTS' DOCUMENTATION

C	ISSUED FOR DEVELOPMENT APPROVAL	10-05-19
B	ISSUED FOR REVIEW	09-04-19
A	ISSUED FOR INFORMATION	03-11-18
Issue	Description	Date



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		Designed	QD
Grid	MGA	Checked	SH
Height Datum	AHD	Approved	

Project

**BRICKWORKS
PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK**

Title

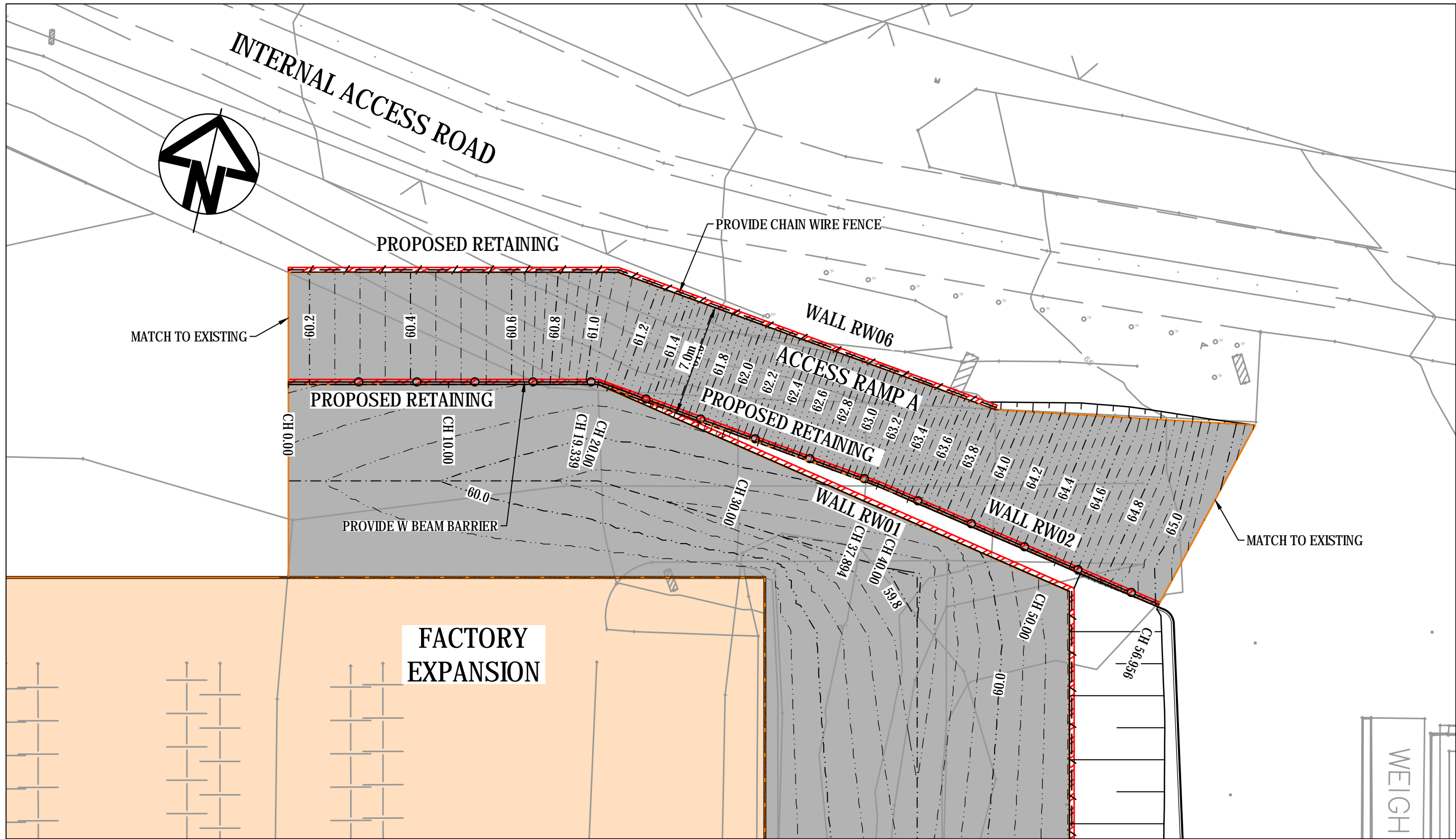
PAVEMENT PLAN

Civil Engineers and Project Managers

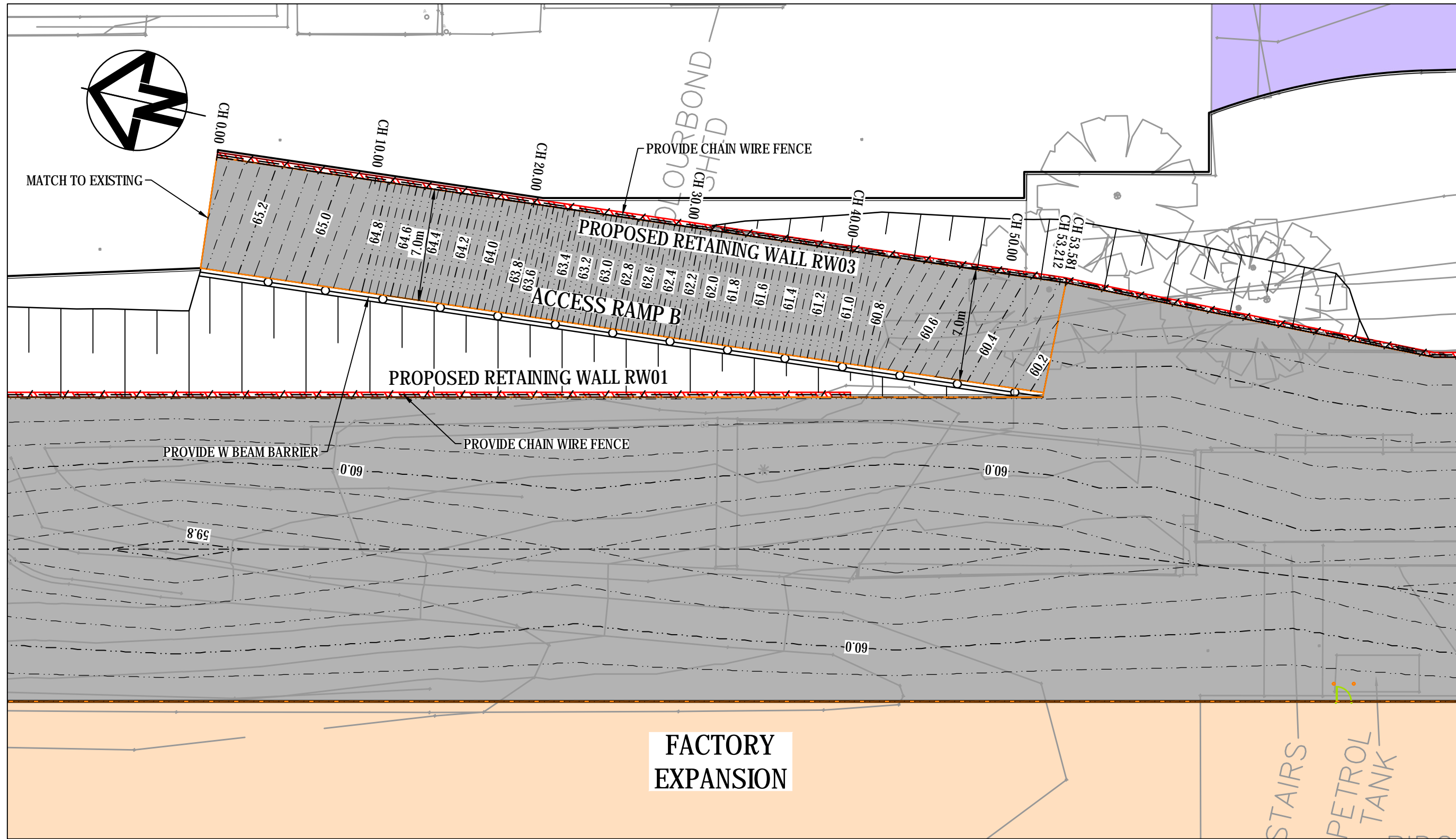


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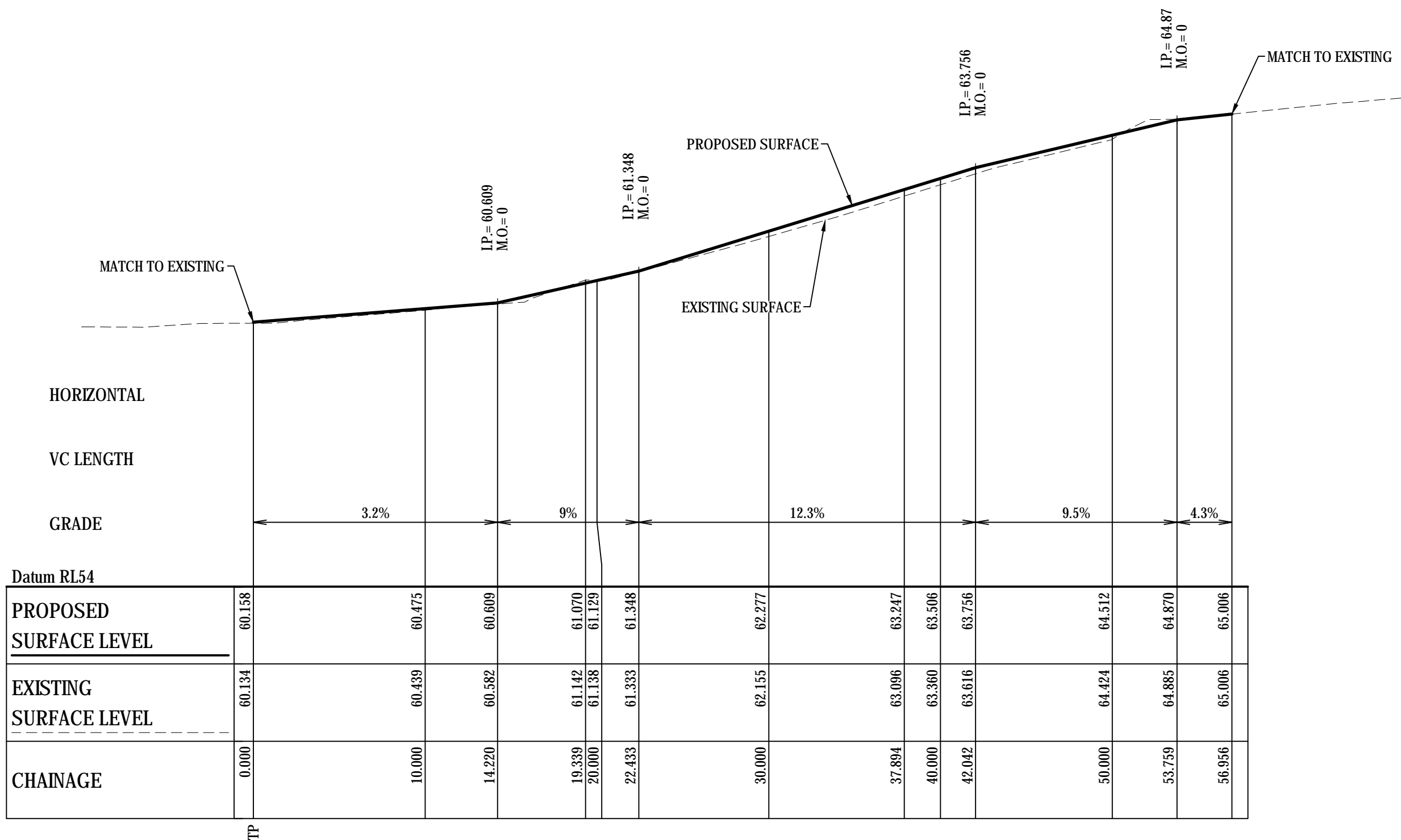
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Drawing No.	DAC031	Issue
Project No.	18-577	C



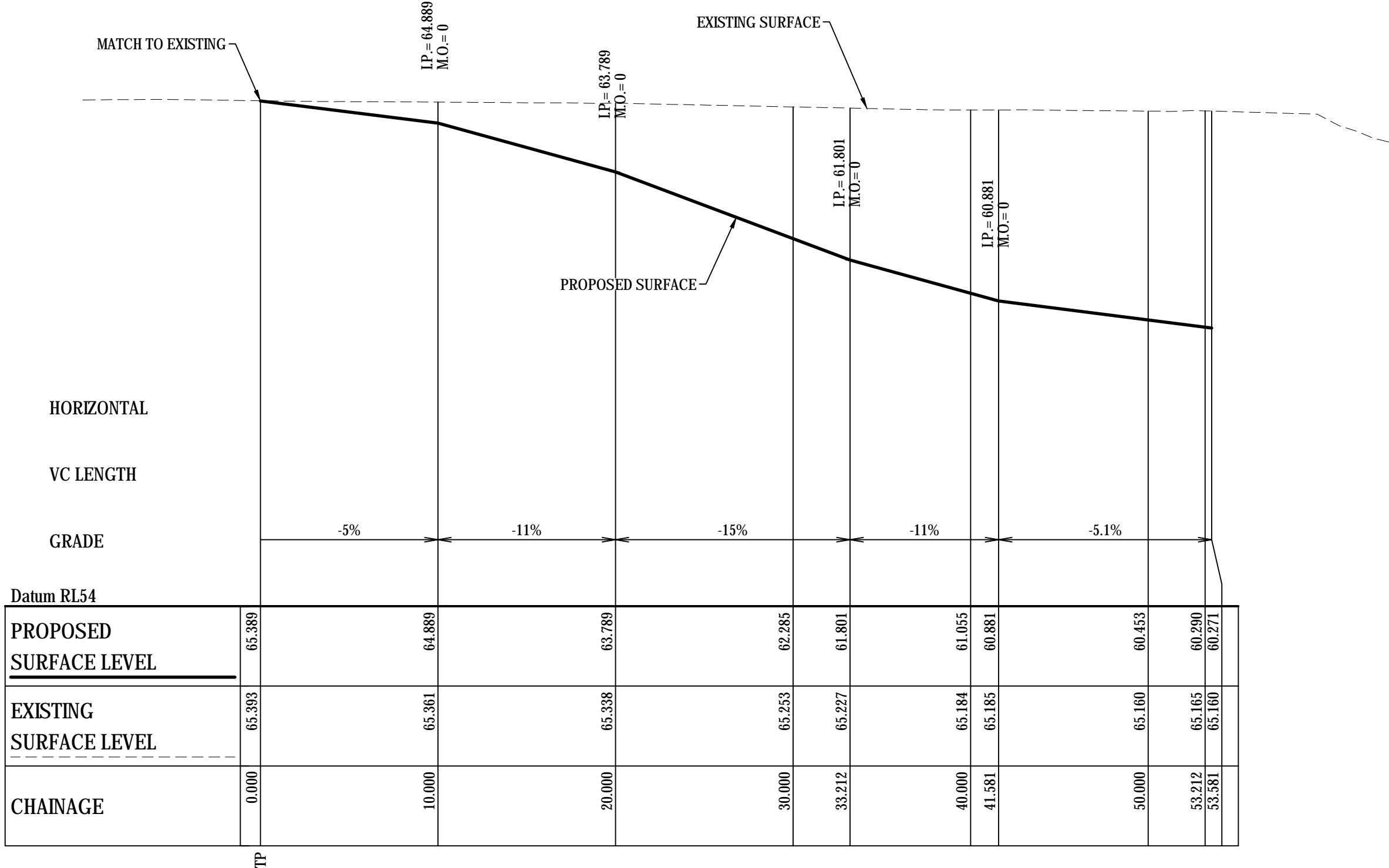
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ACCESS RAMP B
1 : 250

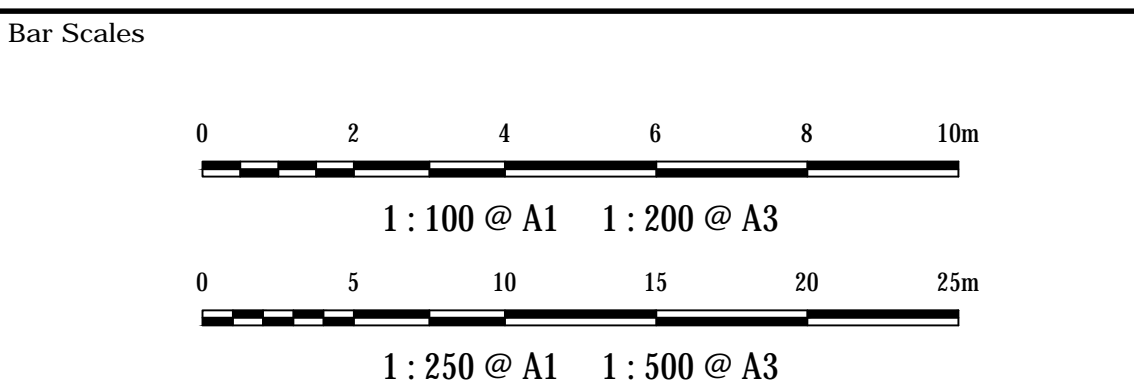


RAMP A LONGITUDINAL SECTION
SCALE 1:250 HORI
1:100 VERT.



RAMP B LONGITUDINAL SECTION
SCALE 1:250 HORI
1:100 VERT.

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B	ISSUED FOR REVIEW	09-04-19
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Issue	Description	Date



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BRICKWORKS
LIMITED

Scales	1 : 250H 1 : 100V	Drawn	QD
		Designed	QD
Grid	MGA	Checked	SH
Height Datum	AHD	Approved	

Project

**BRICKWORKS
PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK**

Title

**ACCESS RAMPS
LONGITUDINAL SECTIONS
SHEET 1**

Civil Engineers and Project Managers

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North Sydney NSW 2060
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Status

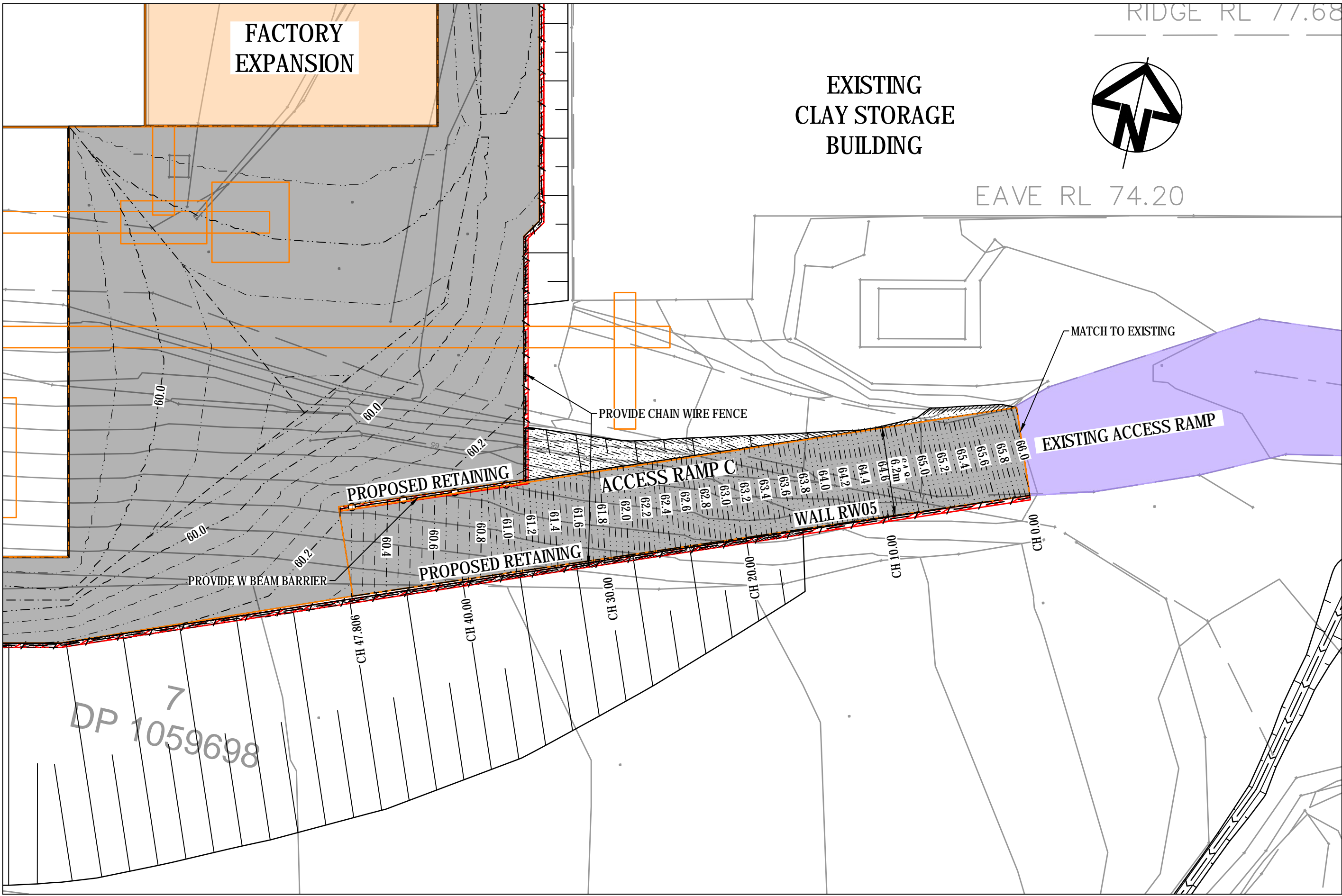
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DAC035

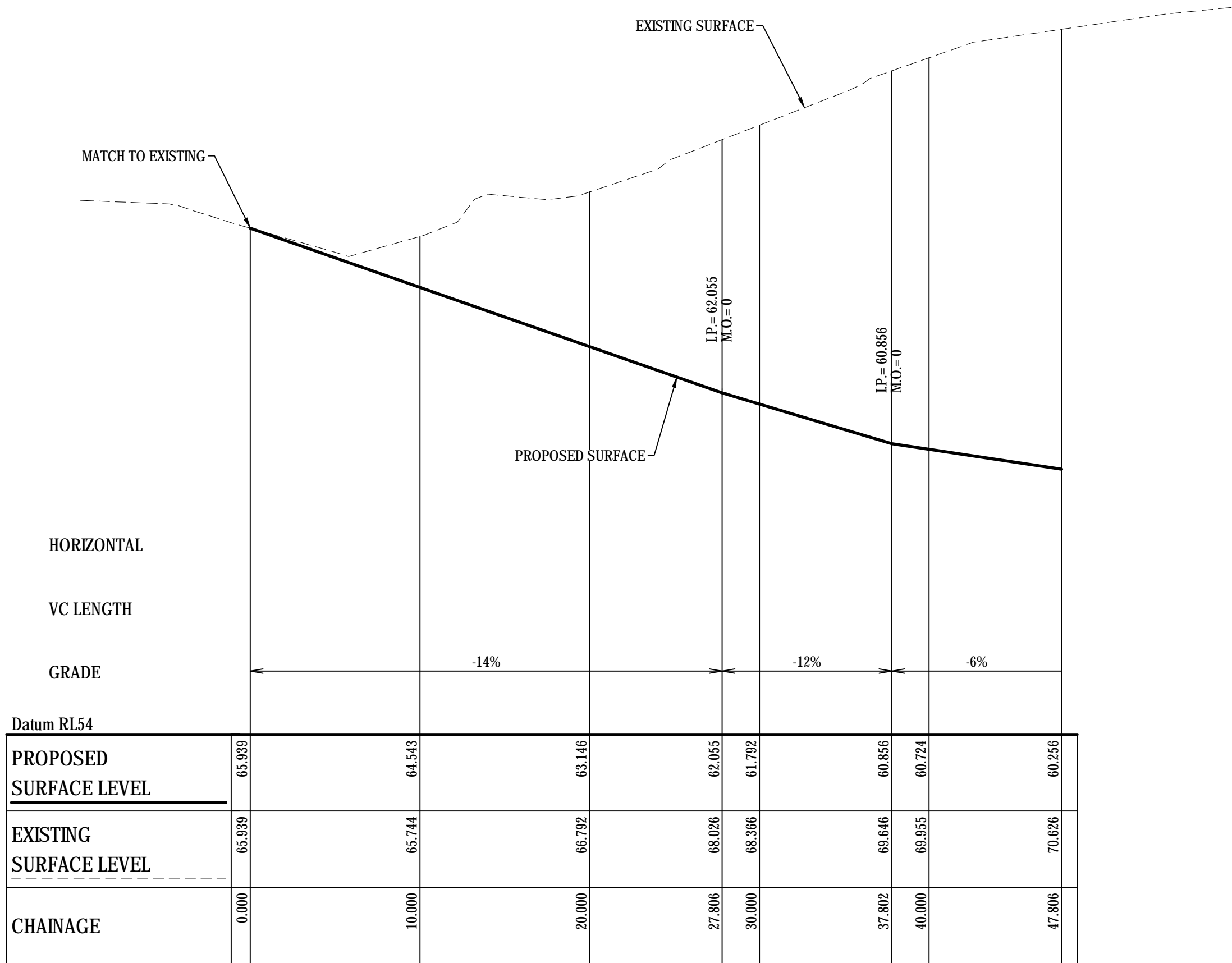
Project No.
18-577

Issue
C

A1

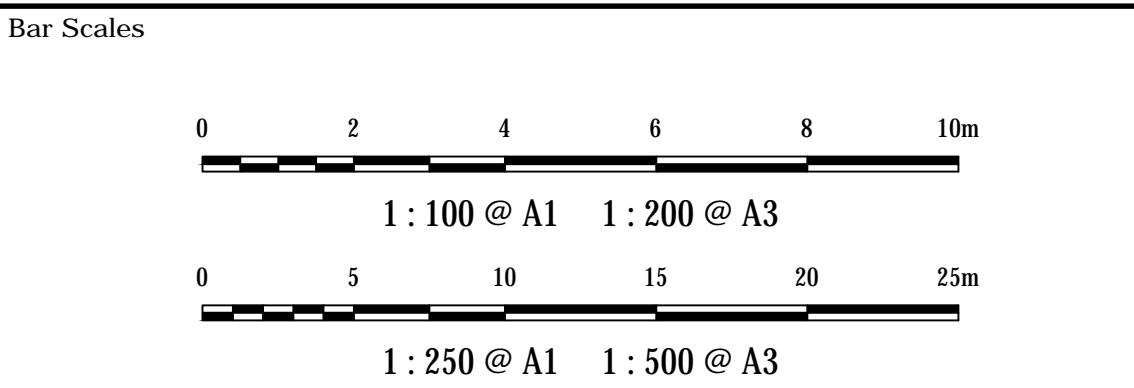


ACCESS RAMP C
1 : 250



RAMP C LONGITUDINAL SECTION
SCALE 1:250 HORI.
1:100 VERT.

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B	ISSUED FOR REVIEW	09-04-19
A	ISSUED FOR INFORMATION	03-11-18
Issue	Description	Date



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Scales 1 : 250H 1 : 100V	Drawn	QD
	Designed	QD
	Checked	SH
Grid MGA	Approved	
Height Datum AHD		

Project

BRICKWORKS PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK

Title

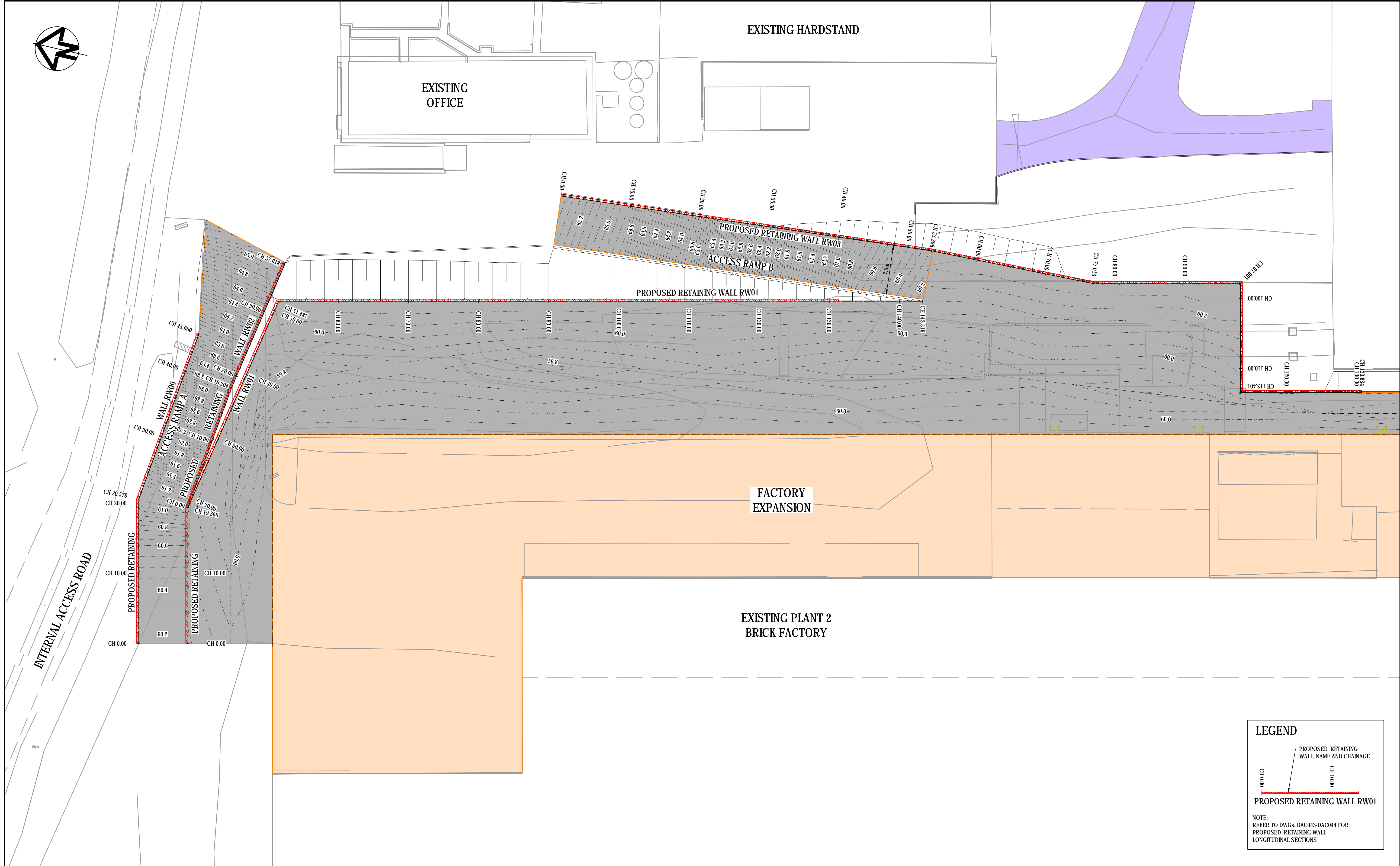
ACCESS RAMPS LONGITUDINAL SECTIONS SHEET 2

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LEGEND

CH 0.00

CH 10.00

PROPOSED RETAINING WALL, NAME AND CHAINAGE

PROPOSED RETAINING WALL RW01

NOTE:
REFER TO DWGS. DAC043-DAC044 FOR
PROPOSED RETAINING WALL
LONGITUDINAL SECTIONS

C	ISSUED FOR DEVELOPMENT APPROVAL	10-05-19
B	ISSUED FOR REVIEW	09-04-19
A	ISSUED FOR INFORMATION	03-11-18
Issue	Description	Date

Bar Scales

0510152025m

1 : 250 @ A1 1 : 500 @ A3

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LIMITED

Scales	1 : 250	Drawn	QD
		Designed	QD
Grid	MGA	Checked	SH
		Approved	
Height Datum	AHD		

Project

BRICKWORKS
PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK

Title

RETAINING WALL PLAN
SHEET 1

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A1

Drawing No.

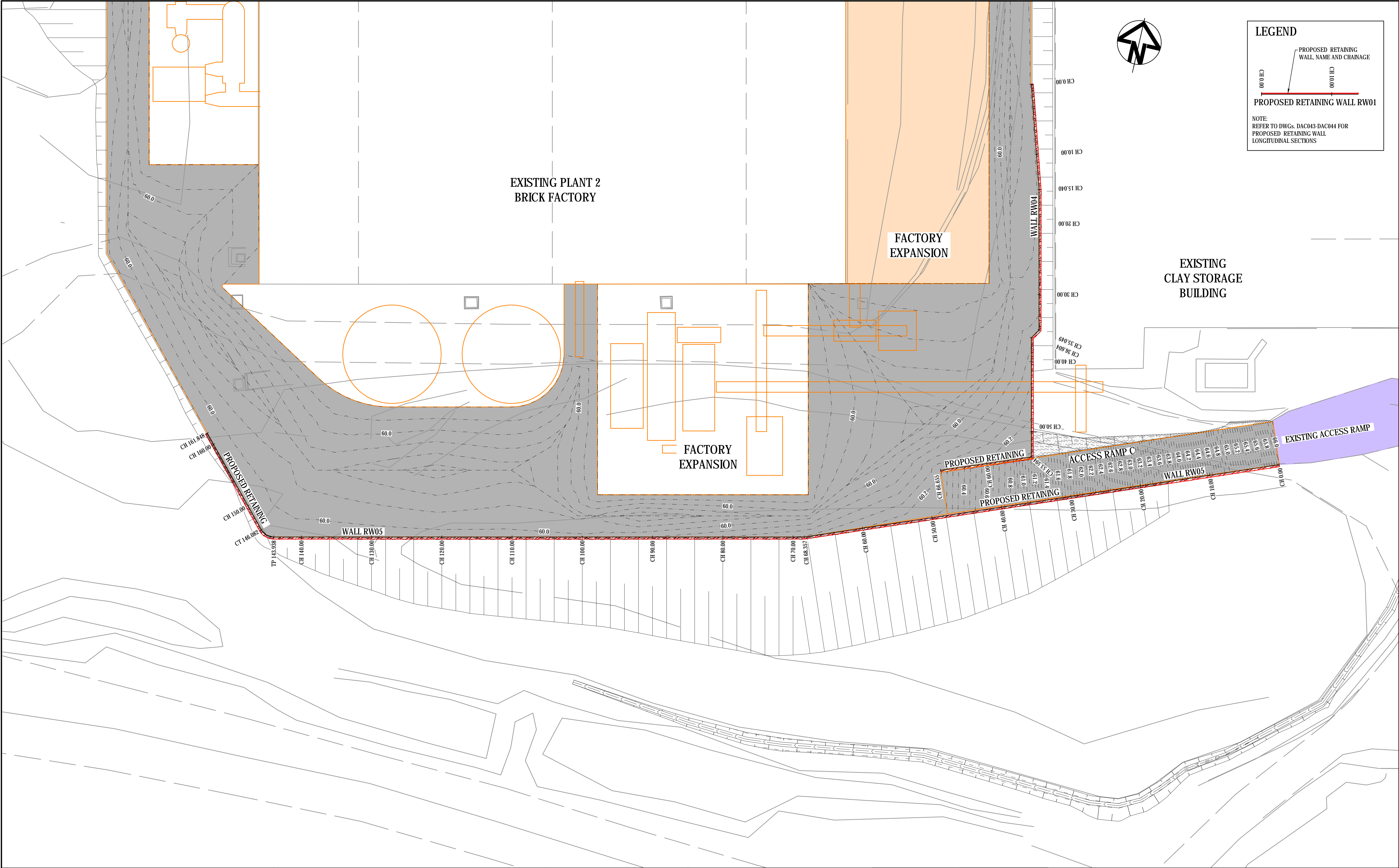
DAC041

Project No.

18-577

Issue

C



LEGEND

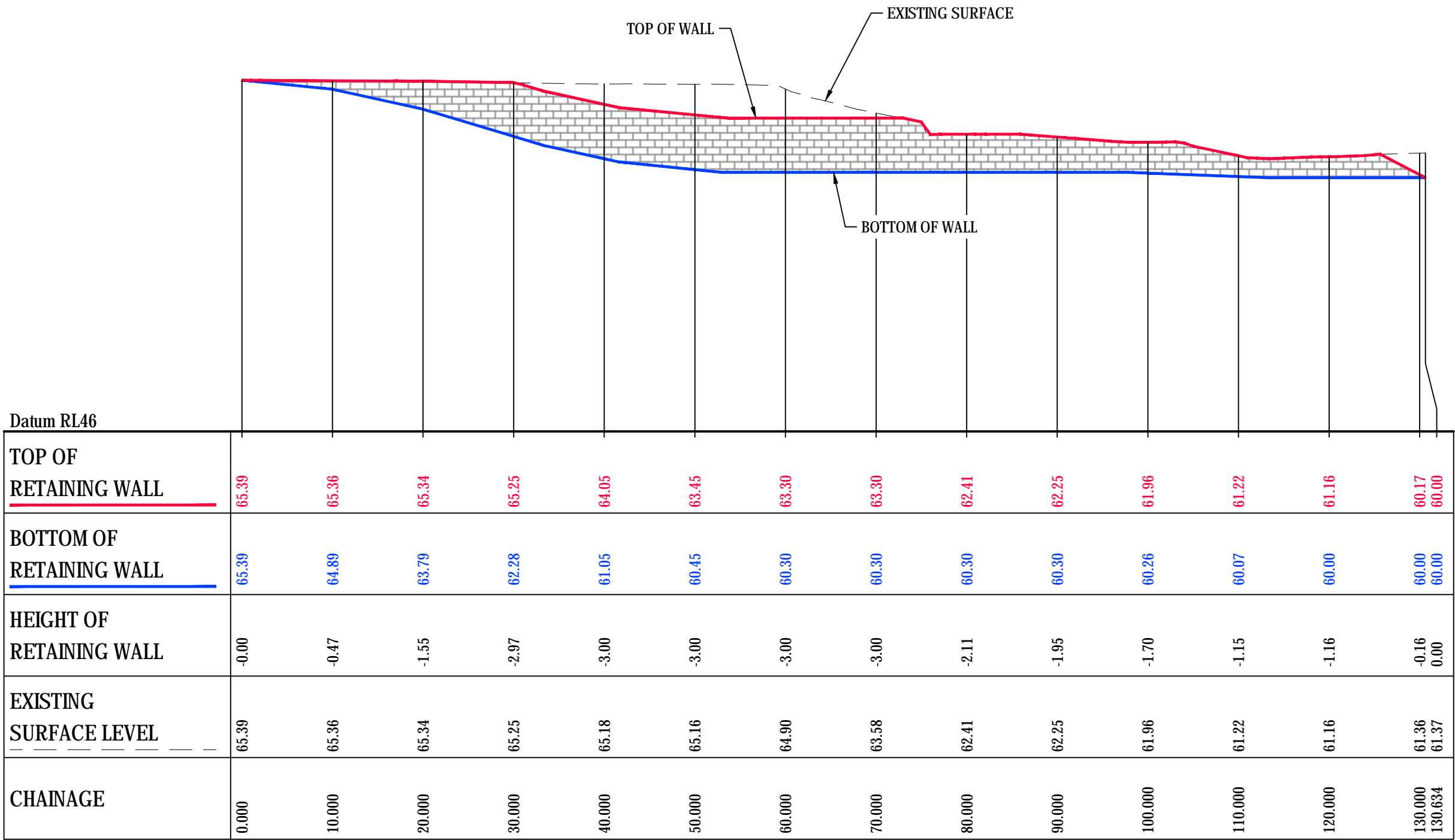
PROPOSED RETAINING WALL, NAME AND CHAINAGE

CH 0.00CH 0.00

PROPOSED RETAINING WALL RW01

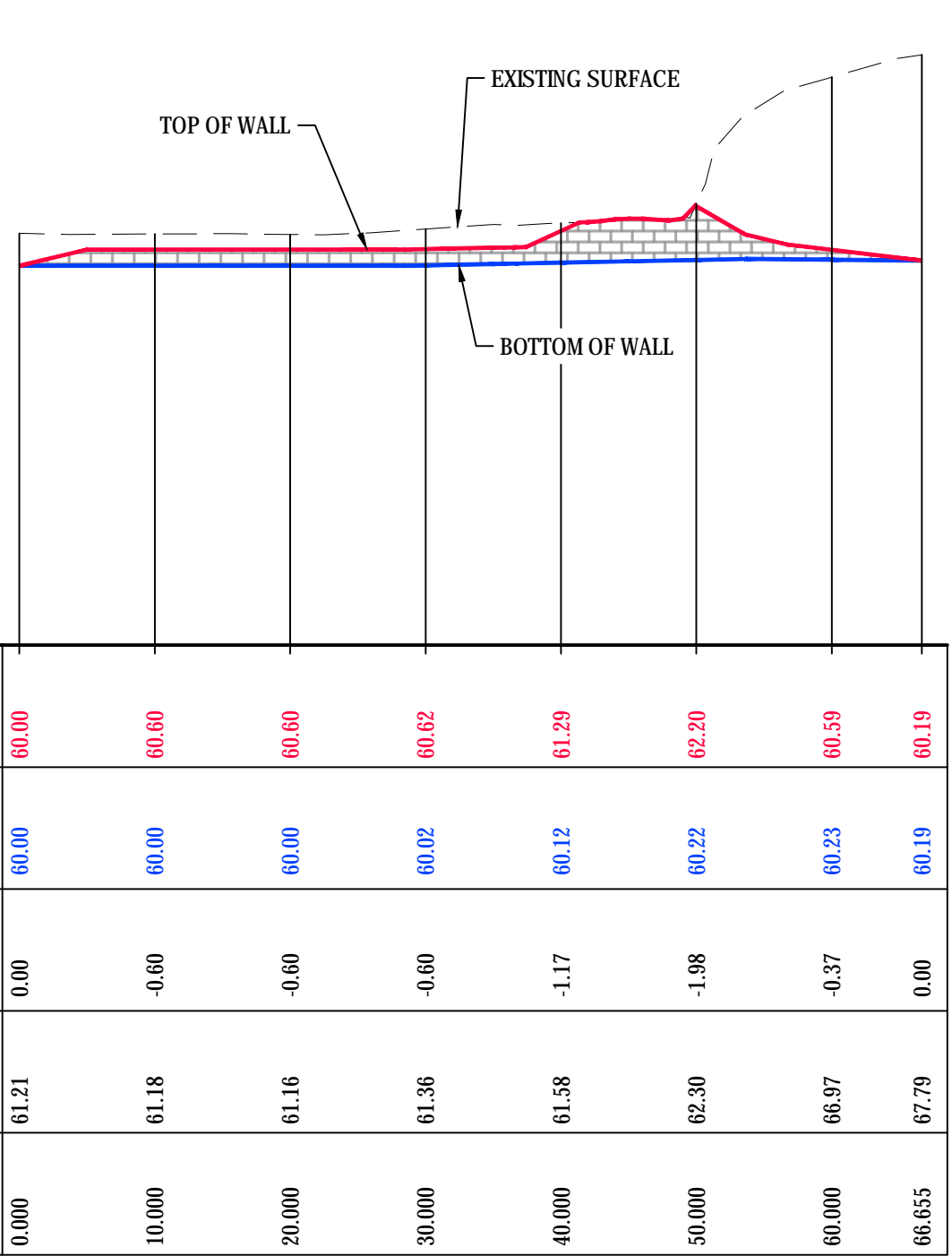
NOTE:
REFER TO DWGS. DAC043-DAC044 FOR
PROPOSED RETAINING WALL
LONGITUDINAL SECTIONS

			<div>Bar Scales</div> <div><div><div>0510152025m</div><div>1 : 250 @ A1 1 : 500 @ A3</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>BRICKWORKS</div><div>LIMITED</div></div>	<div>Scales</div> <div>1 : 250</div>	<div>Drawn</div> <div>QD</div>	<div>Project</div> <div>BRICKWORKS PLANT2 UPGRADE 780 WALLGROVE ROAD HORSLEY PARK</div>	<div>Civil Engineers and Project Managers</div> <div><div>at&l</div><div>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9423 1055 www.atl.net.au info@atl.net.au</div></div>
		<div>Designed</div> <div>QD</div>							
<div>Grid</div> <div>MGA</div>	<div>Checked</div> <div>SH</div>								
<div>Height Datum</div> <div>AHD</div>	<div>Approved</div> <div></div>	<div>Title</div> <div>RETAINING WALL PLAN SHEET 2</div>							
						<div>Status</div> <div>FOR REVIEW NOT TO BE USED FOR CONSTRUCTION</div>	<div>A1</div>		
<div>C</div> <div>ISSUED FOR DEVELOPMENT APPROVAL</div> <div>10-05-19</div>	<div>B</div> <div>ISSUED FOR REVIEW</div> <div>09-04-19</div>	<div>A</div> <div>ISSUED FOR INFORMATION</div> <div>03-11-18</div>				<div>Drawing No.</div> <div>DAC042</div>	<div>Project No.</div> <div>18-577</div>	<div>Issue</div> <div>C</div>	
<div>Issue</div>	<div>Description</div>	<div>Date</div>							



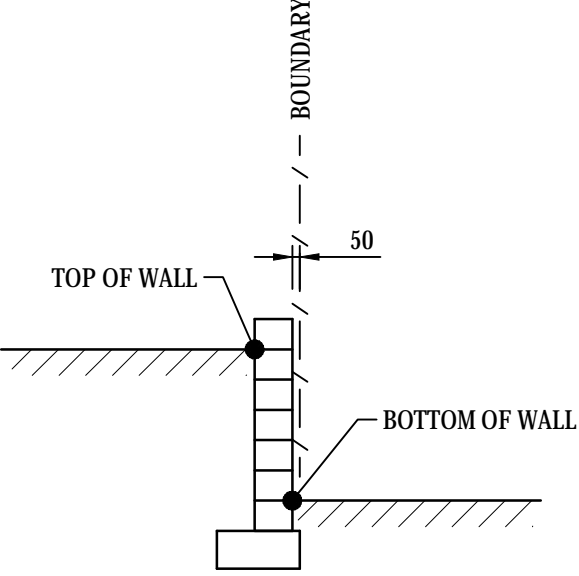
RETAINING WALL RW03 PROFILE

SCALE 1:500 HORI
1:250 VERT.



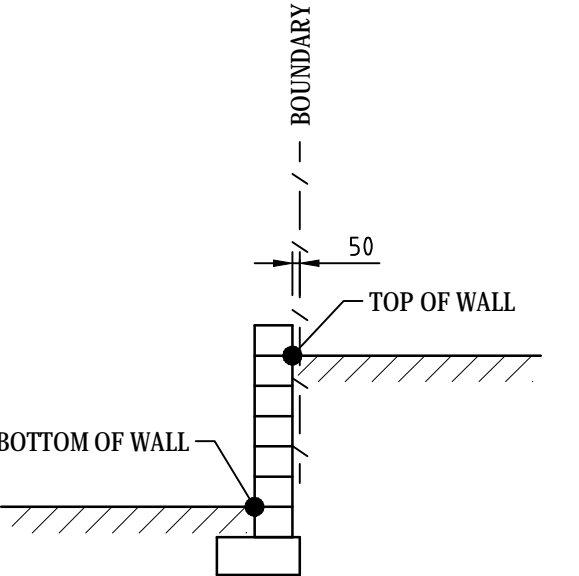
RETAINING WALL RW04 PROFILE

SCALE 1:500 HORI
1:250 VERT.



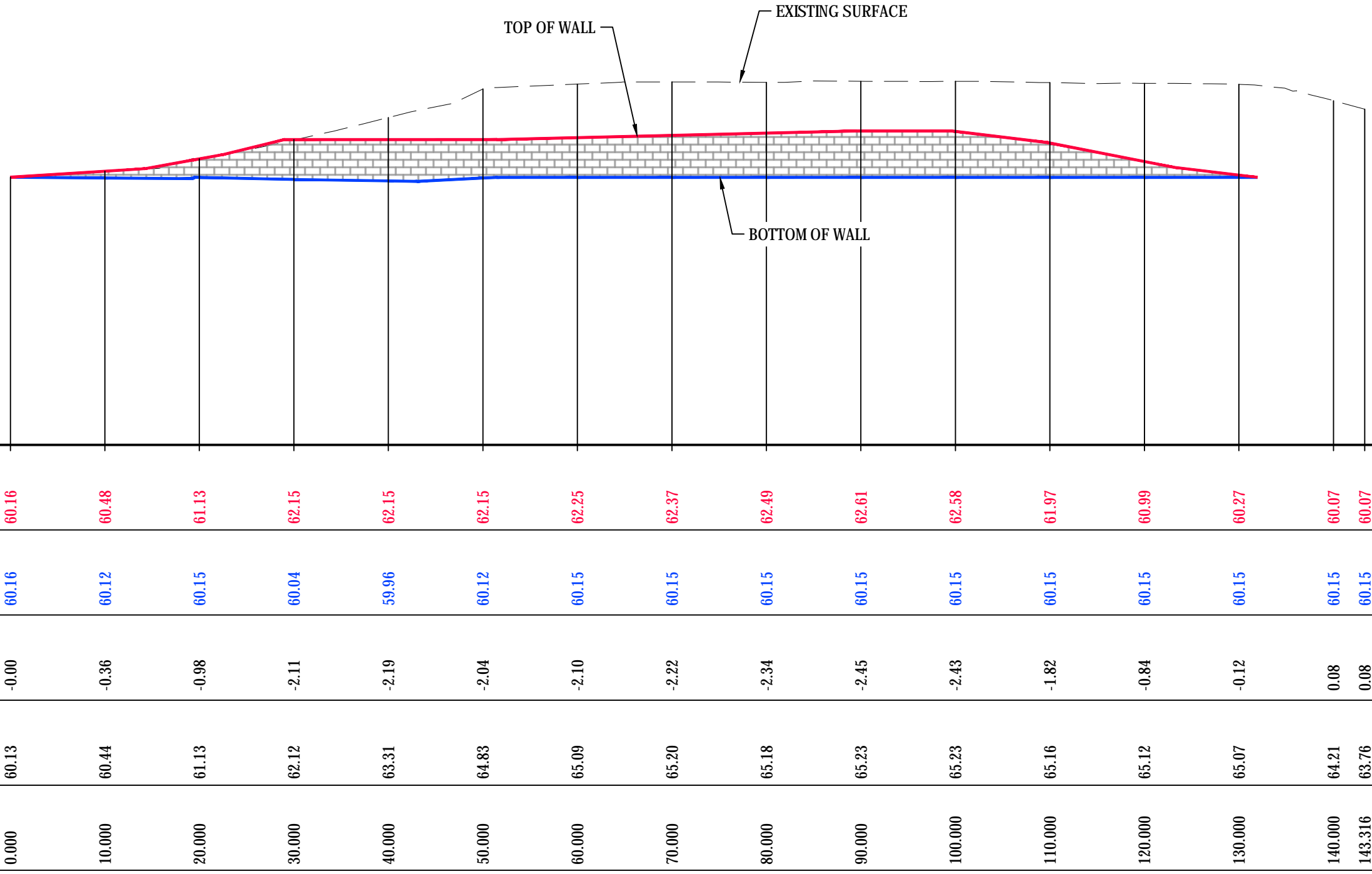
TYPICAL RETAINING WALL SETOUT
DETAIL - IN FILL

1 : 50



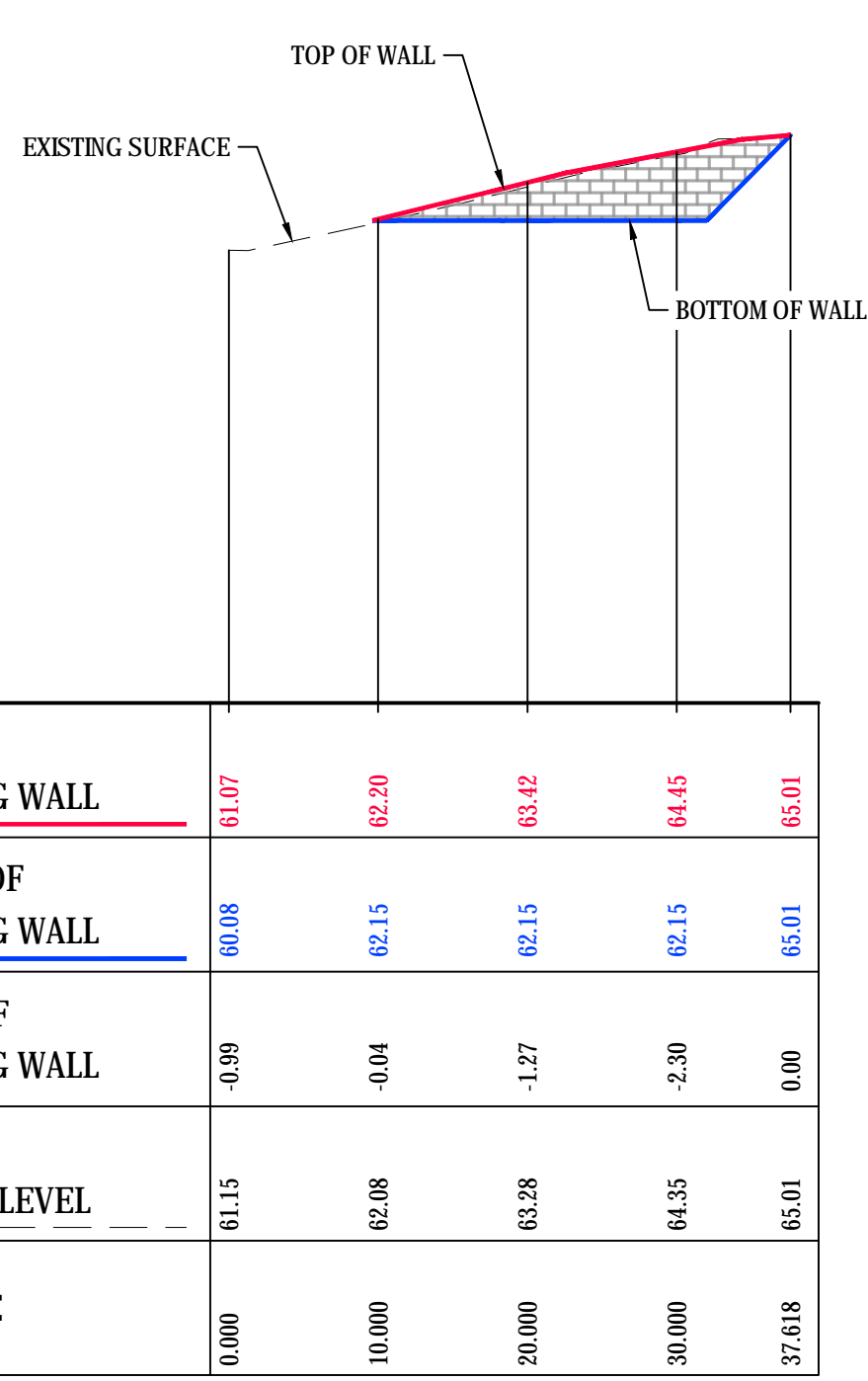
TYPICAL RETAINING WALL SETOUT
DETAIL - IN CUT

1 : 50



RETAINING WALL RW01 PROFILE

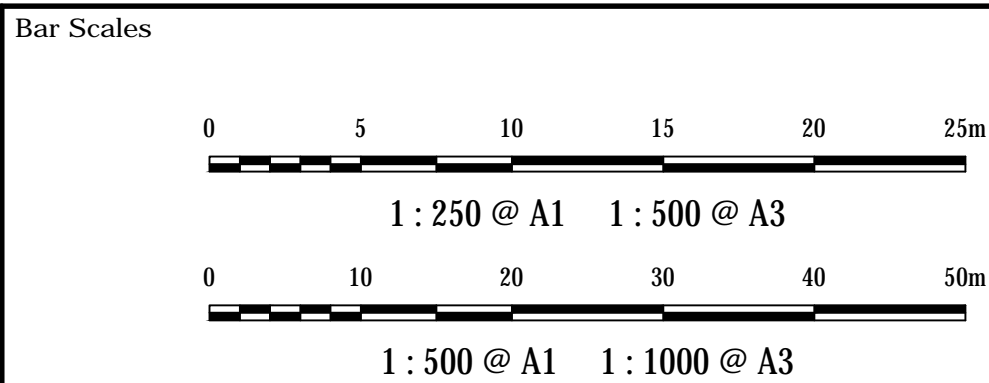
SCALE 1:500 HORI
1:250 VERT.



RETAINING WALL RW02 PROFILE

SCALE 1:500 HORI
1:250 VERT.

C	ISSUED FOR DEVELOPMENT APPROVAL	10-05-19
B	ISSUED FOR REVIEW	09-04-19
A	ISSUED FOR INFORMATION	03-11-18
Issue	Description	Date



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OTHER PURPOSE OTHER THAN
THAT ORIGINALLY INTENDED
WITHOUT THE WRITTEN
PERMISSION OF AT&L

Client

Scales 1 : 500H 1 : 250V	Drawn	QD
	Designed	QD
Grid MGA	Checked	SH
	Approved	
Height Datum AHD		

Project

BRICKWORKS
PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK

Title

RETAINING WALL PROFILE
SHEET 1

Civil Engineers and Project Managers

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9423 1055
www.atl.net.au
info@atl.net.au

Status

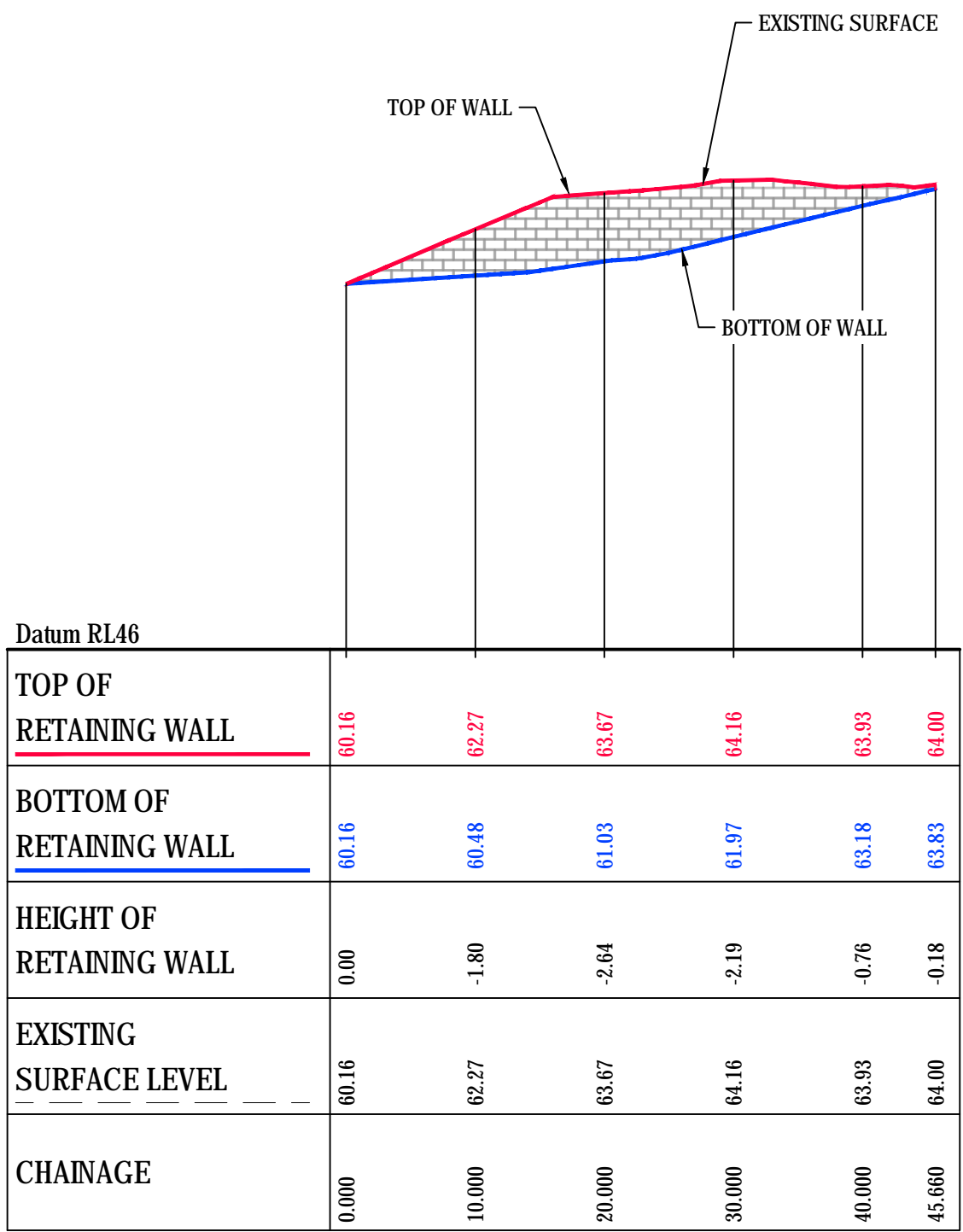
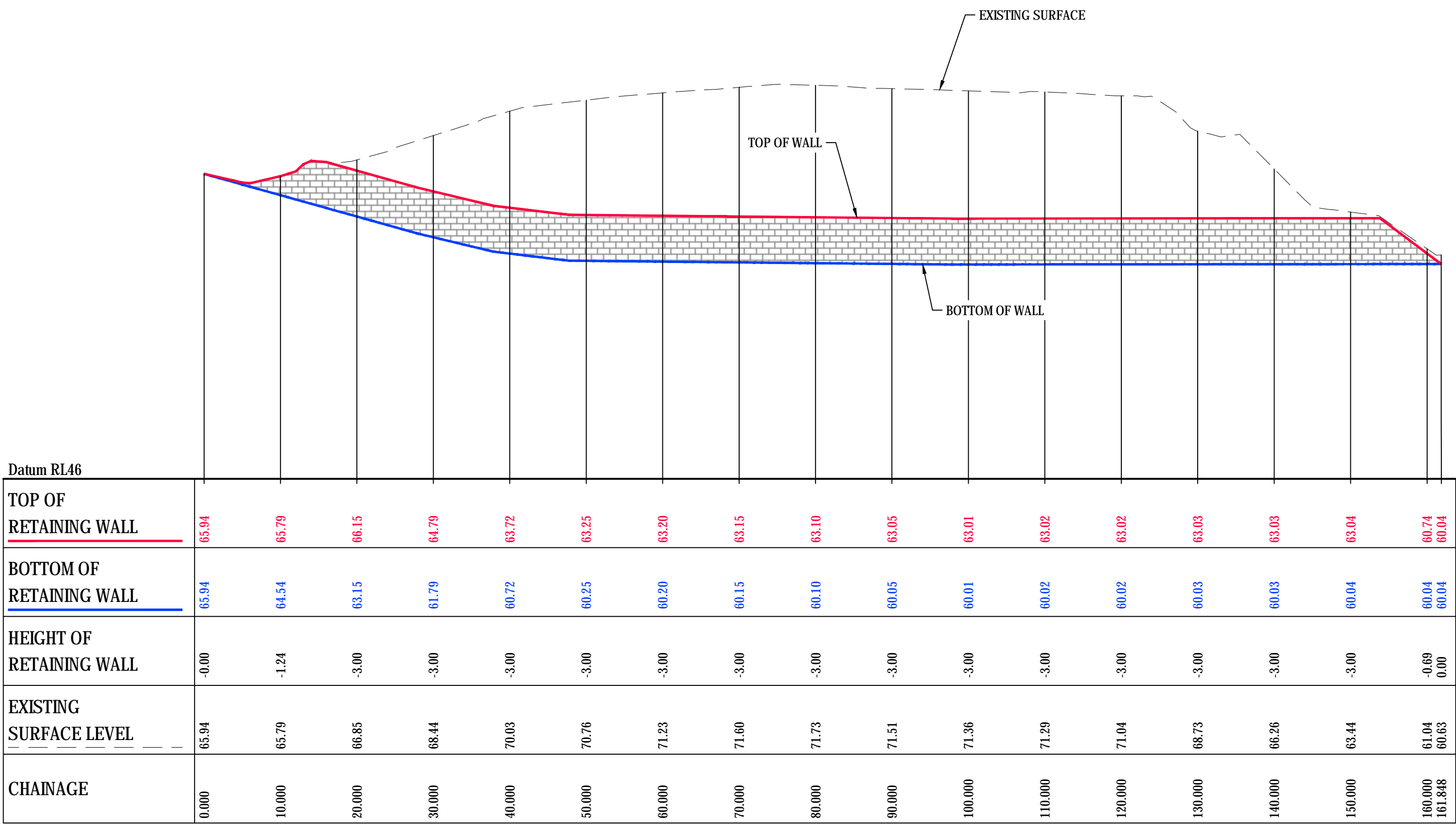
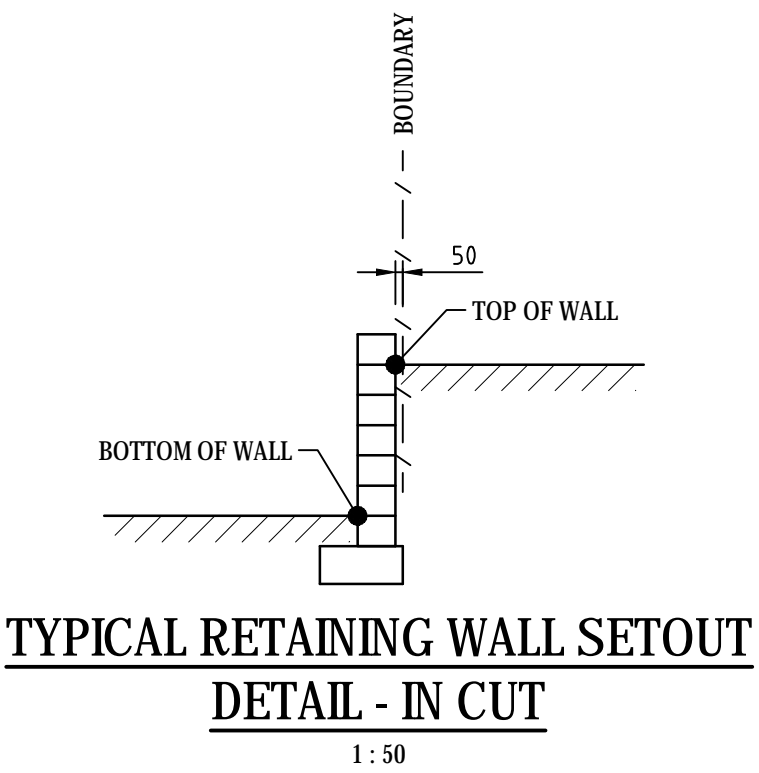
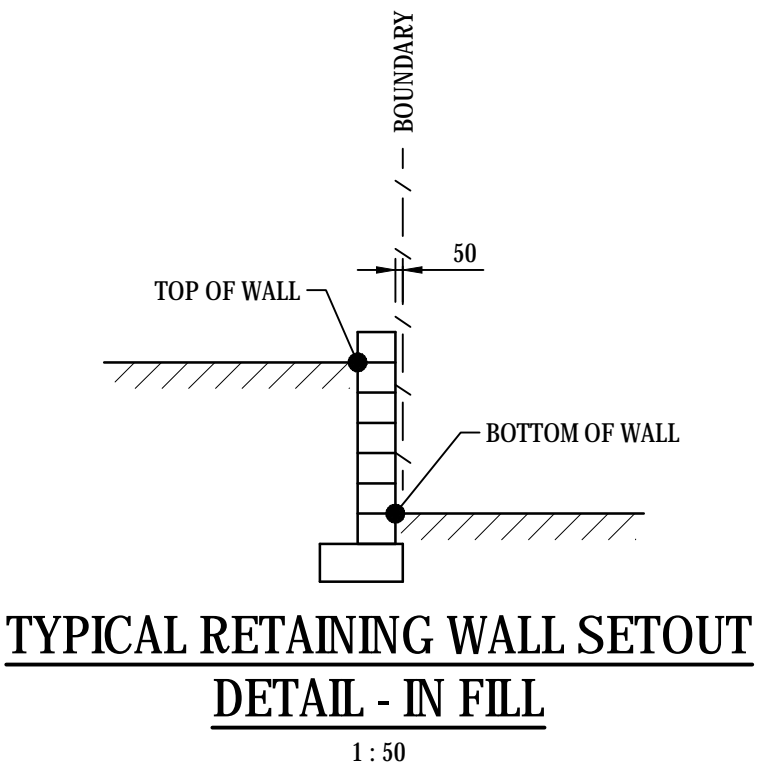
FOR REVIEW
NOT TO BE USED FOR CONSTRUCTION



A1

Drawing No.
DAC043

Project No.
18-577

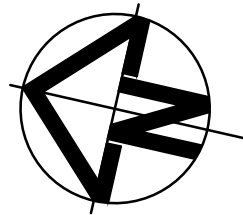
Issue
C



			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> 	<p>Scales</p> <p>1 : 500H 1 : 250V</p>	<p>Drawn</p> <p>Designed</p> <p>Checked</p> <p>Approved</p>	<p>Project</p> <p>BRICKWORKS PLANT2 UPGRADE 780 WALLGROVE ROAD HORSLEY PARK</p>	<p>Civil Engineers and Project Managers</p>  <p>Level 7, 153 Walker Street North Sydney NSW 2060 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9423 1055 www.atl.net.au info@atl.net.au</p>	<p>Status</p> <p>FOR REVIEW NOT TO BE USED FOR CONSTRUCTION</p>	<p>A1</p>					
			<p>1 : 250 @ A1 1 : 500 @ A3</p> <p>0 5 10 15 20 25m</p> <p>1 : 500 @ A1 1 : 1000 @ A3</p> <p>0 10 20 30 40 50m</p>	<p>Grid</p> <p>MGA</p>									<p>Height Datum</p> <p>AHD</p>	<p>Title</p> <p>RETAINING WALL PROFILE SHEET 2</p>	<p>Drawing No.</p> <p>DAC044</p>	<p>Project No.</p> <p>18-577</p>	<p>Issue</p> <p>C</p>
<p>C ISSUED FOR DEVELOPMENT APPROVAL 10-05-19</p> <p>B ISSUED FOR REVIEW 09-04-19</p> <p>A ISSUED FOR INFORMATION 03-11-18</p> <p>Issue Description Date</p>																	

100mm on Original

Date Plotted: 13 Mar 2020 - 04:23PM File Name: F:\18-577 Brickworks Plant 2\Draws\Civil\Final\DA\DAC044.dwg



STORMWATER CATCHMENT LEGEND

PROPOSED CATCHMENT BOUNDARIES

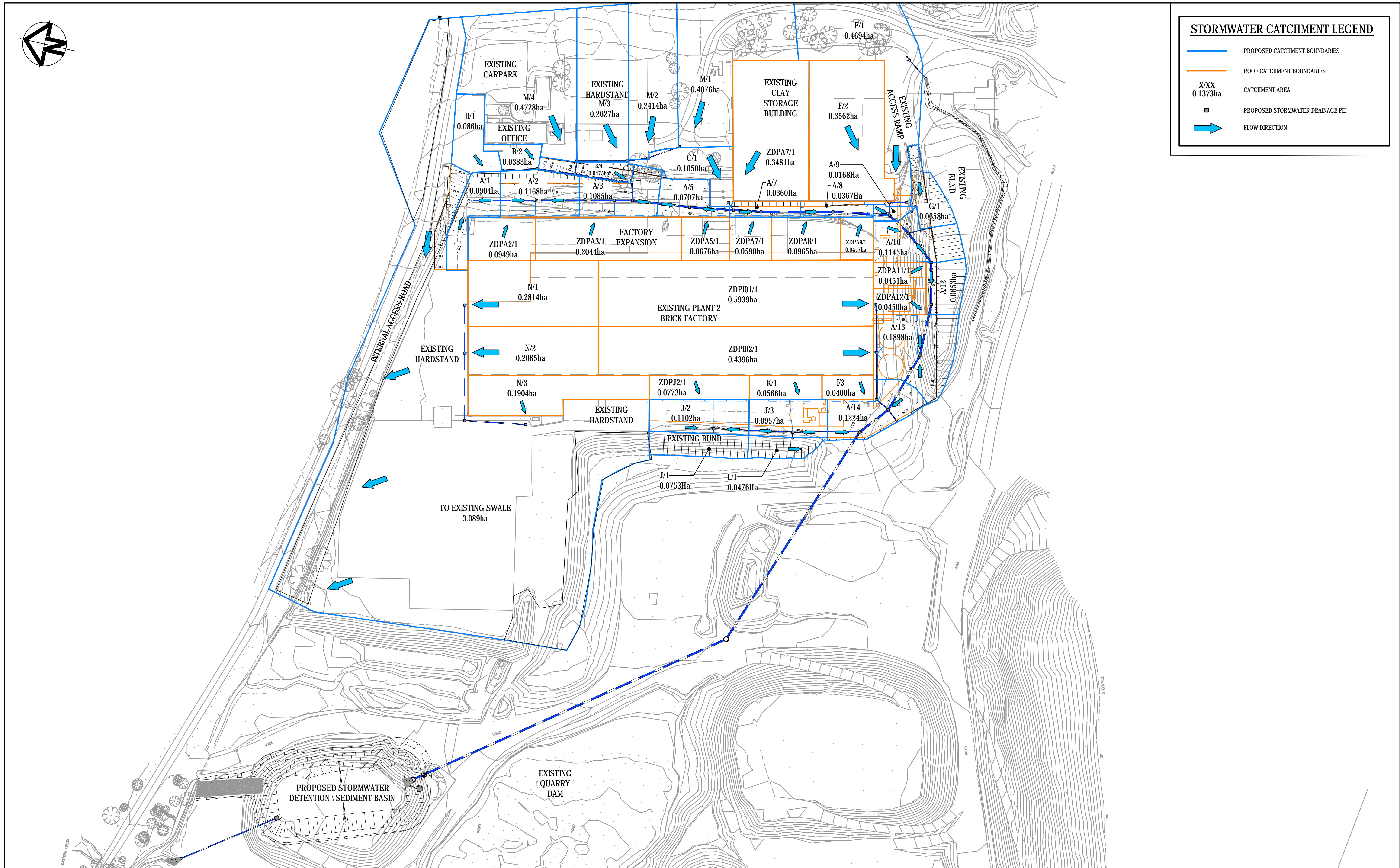
ROOF CATCHMENT BOUNDARIES

X/XX
0.1373ha

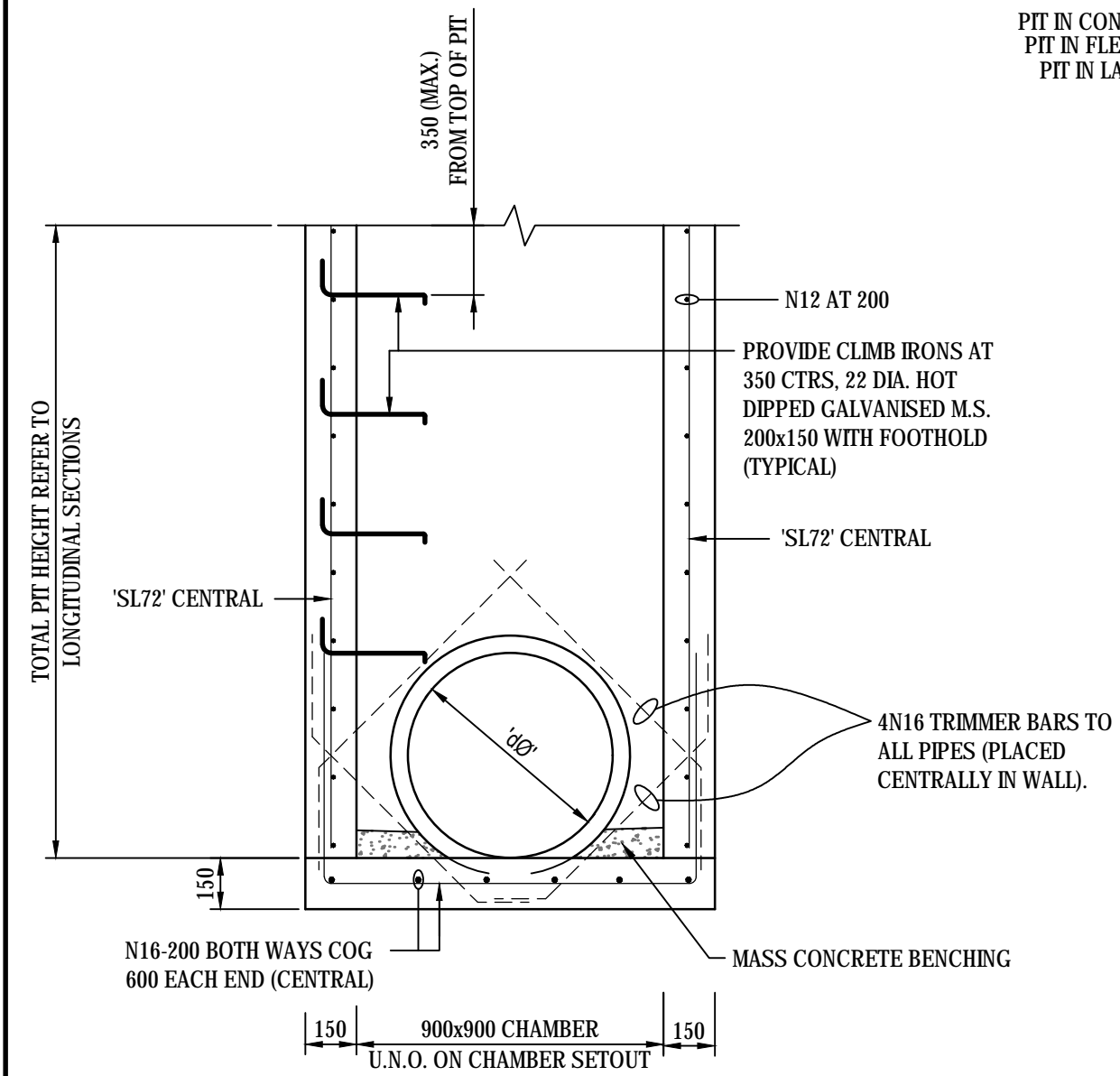
CATCHMENT AREA

PROPOSED STORMWATER DRAINAGE PIT

FLOW DIRECTION

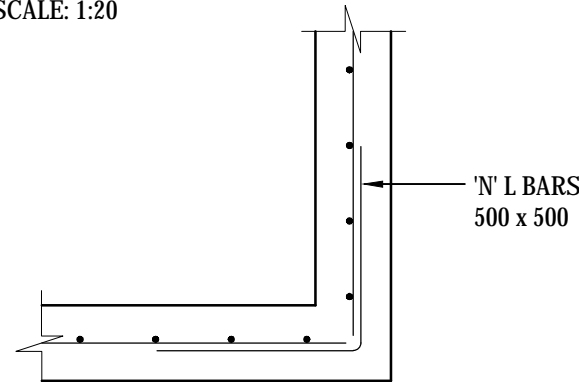


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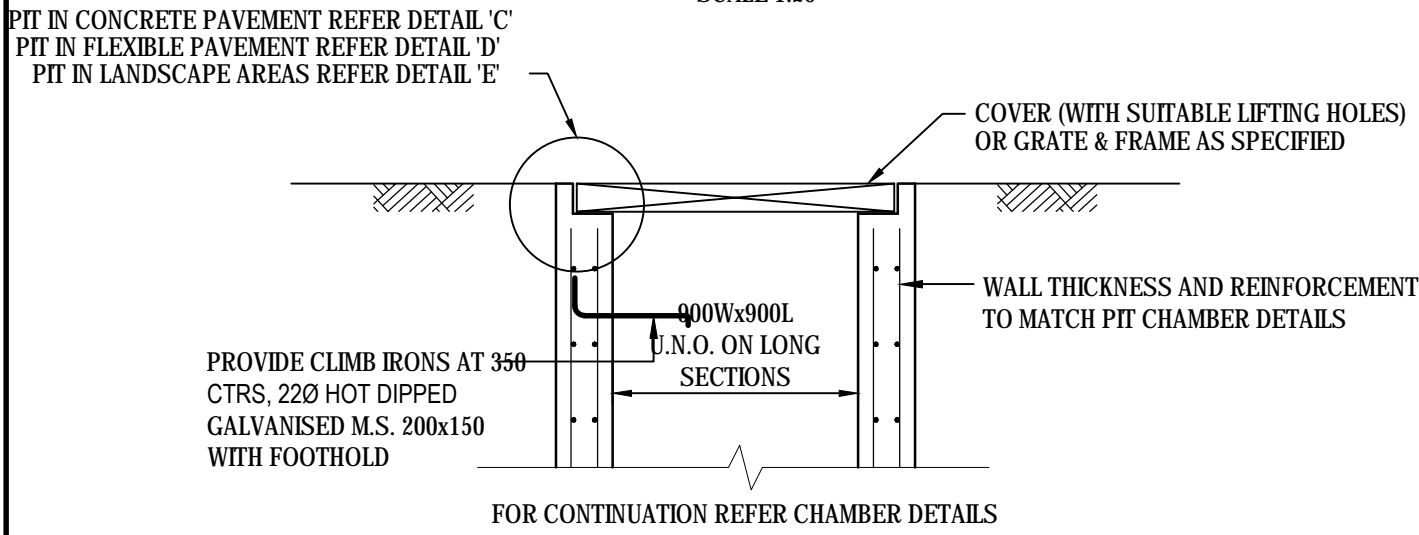
**PIT CHAMBER
DETAIL
FOR PIPES UP TO 525Ø**

SCALE: 1:20



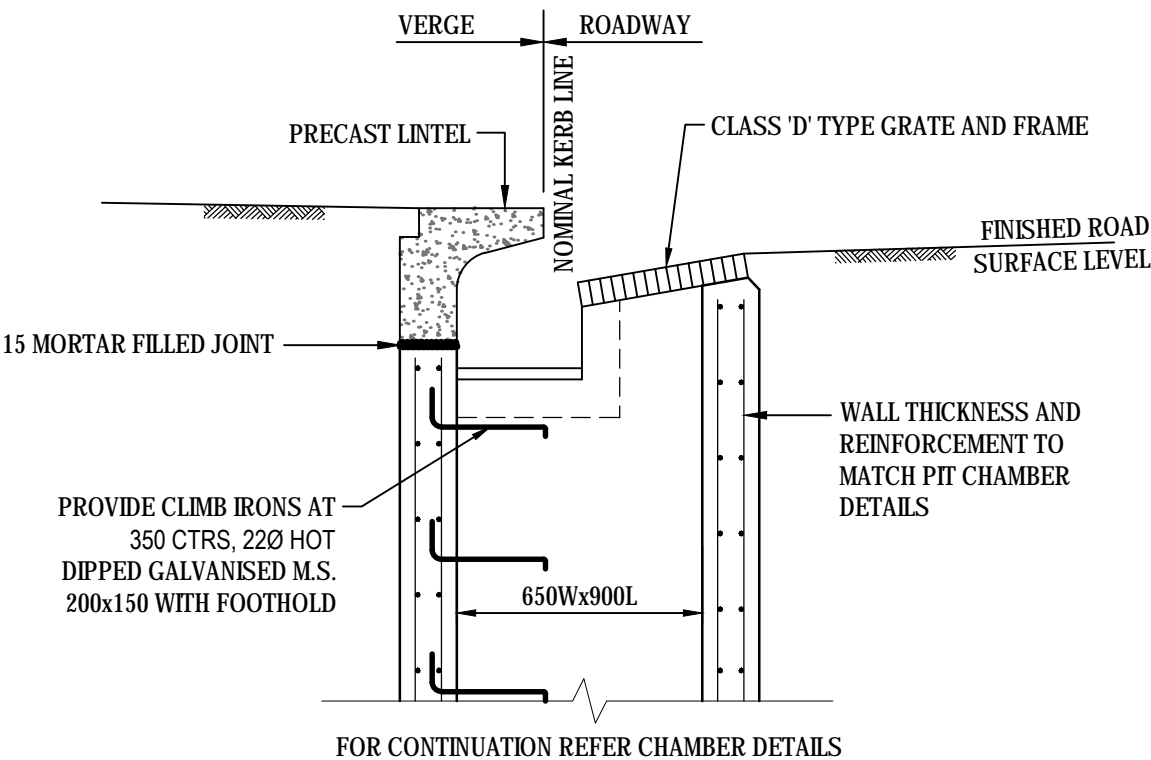
TYPICAL CORNER DETAIL

SCALE: 1:20



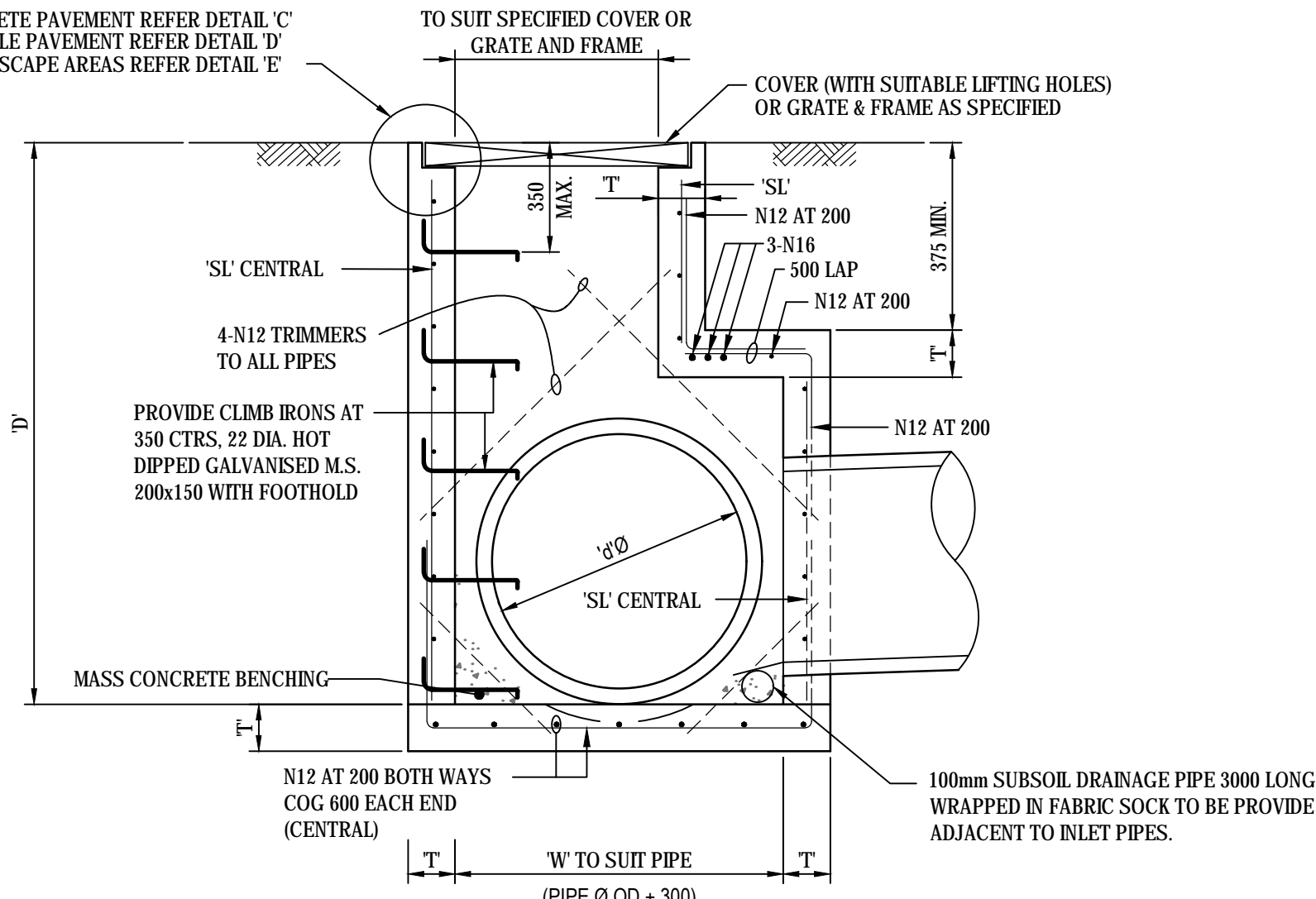
**STANDARD SURFACE INLET
OR SEALED JUNCTION PIT**

SCALE: 1:20



**STANDARD GRATED KERB
INLET PIT WITH LINTEL**

SCALE: 1:20

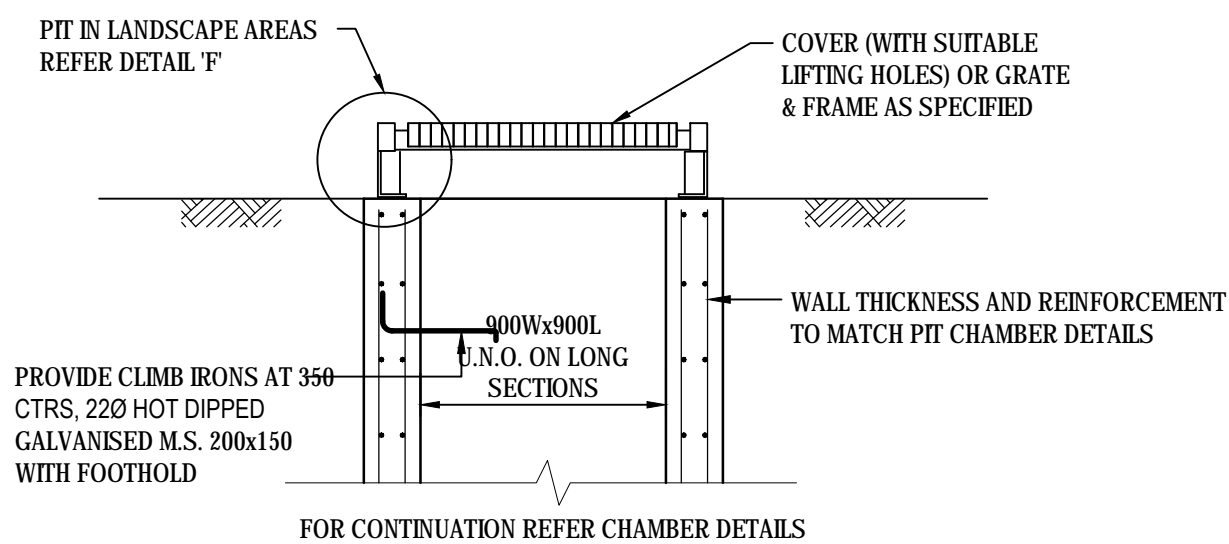


**PIT CHAMBER
DETAIL
FOR PIPES FROM 600Ø TO 1200Ø
(ENLARGED CHAMBER)**

SCALE: 1:20

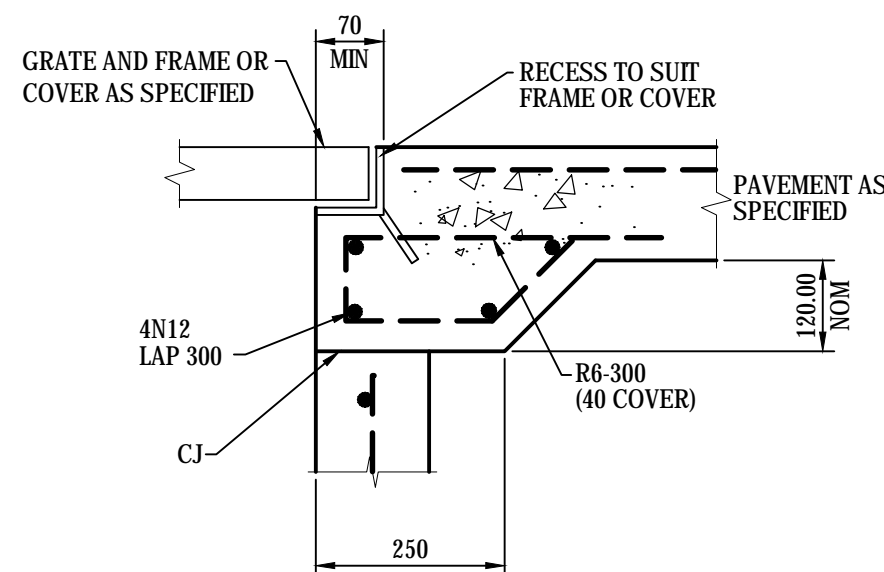
PIPE DIA. Ø	WIDTH W	DEPTH D	FABRIC/COV SL
600 to 675	900	1200-2400	SL72
750	1000	1200-2400	SL72
825	1150	1200-2400	SL72
900	1200	1200-2400	SL82
1050	1350	1300-2400	SL92
1200	1500	1500-2800	SL102

CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE
DESIGNED AND APPROVED BY STRUCTURAL ENGINEER



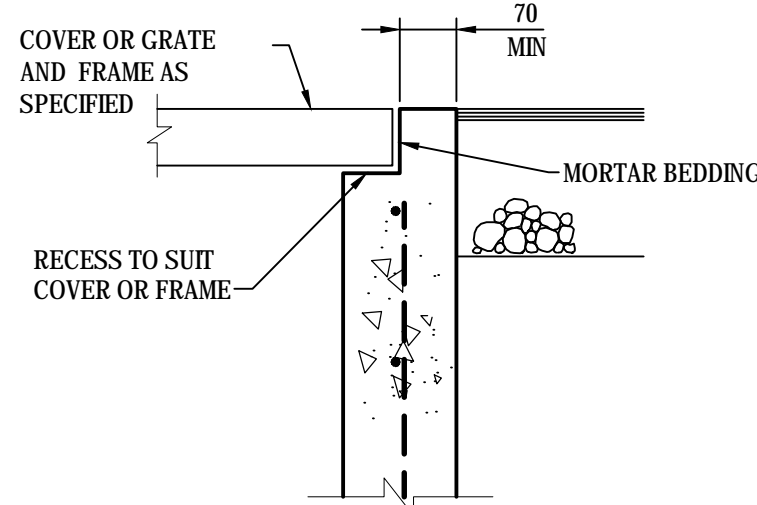
**STANDARD SURCHARGE
SURFACE INLET PIT**

SCALE: 1:20



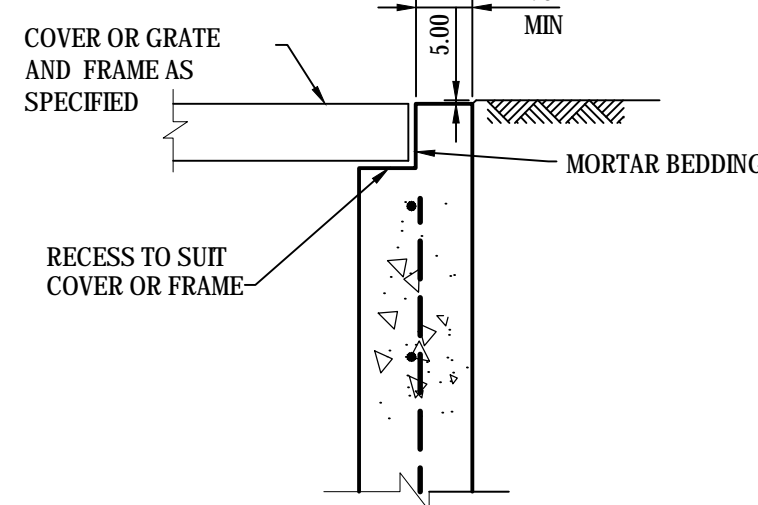
DETAIL "C"

SCALE 1:10



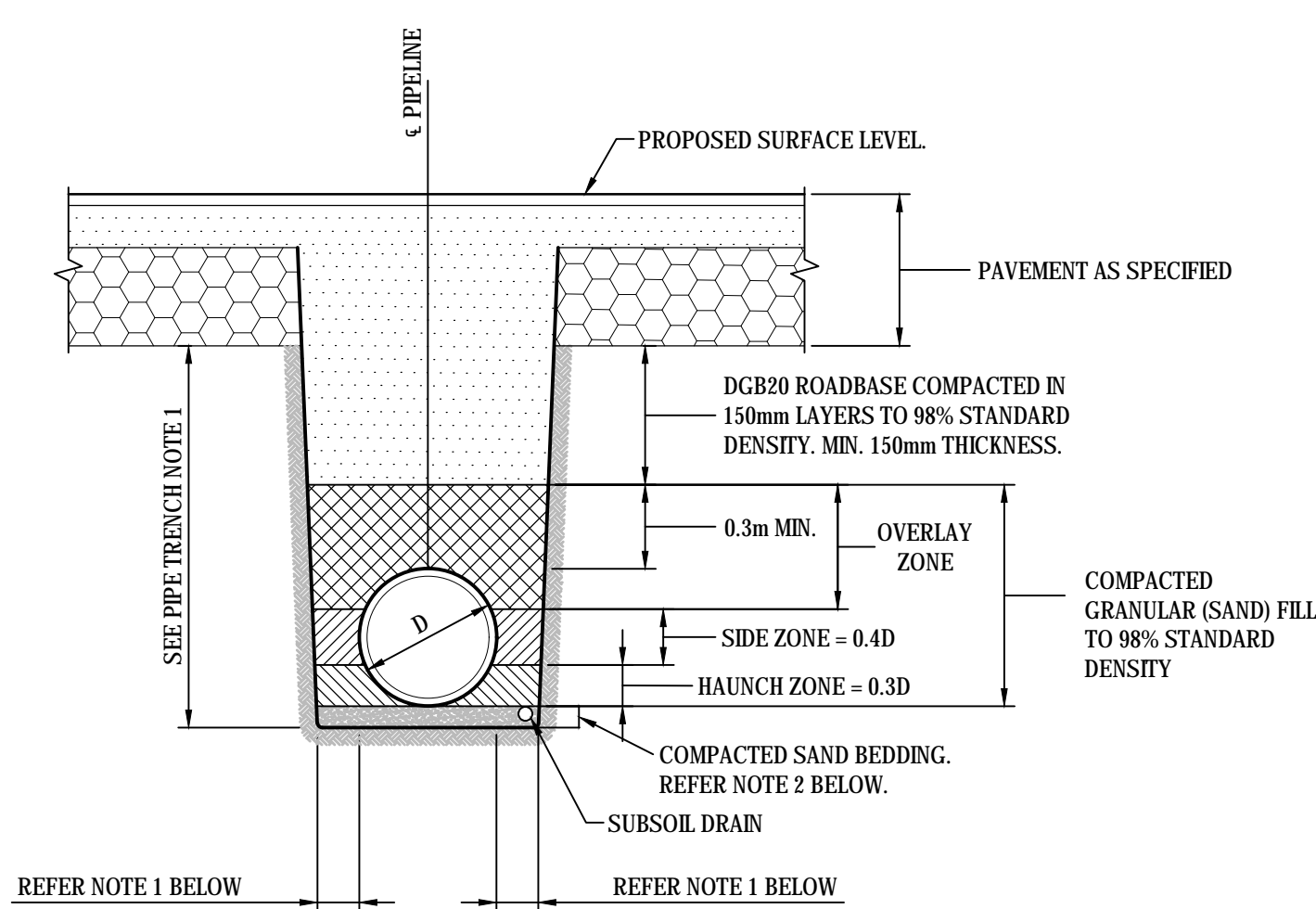
DETAIL "D"

SCALE 1:10



DETAIL "E"

SCALE 1:10

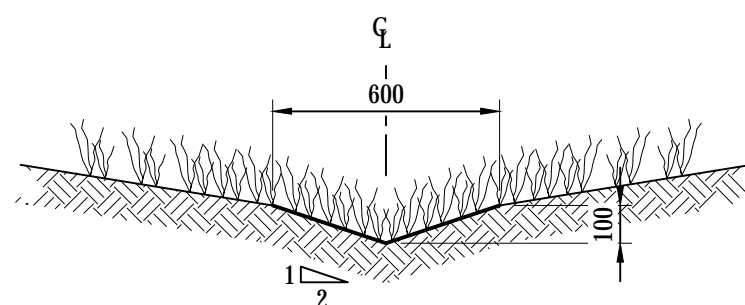


PIPE TRENCH BELOW PAVEMENT

N.T.S.

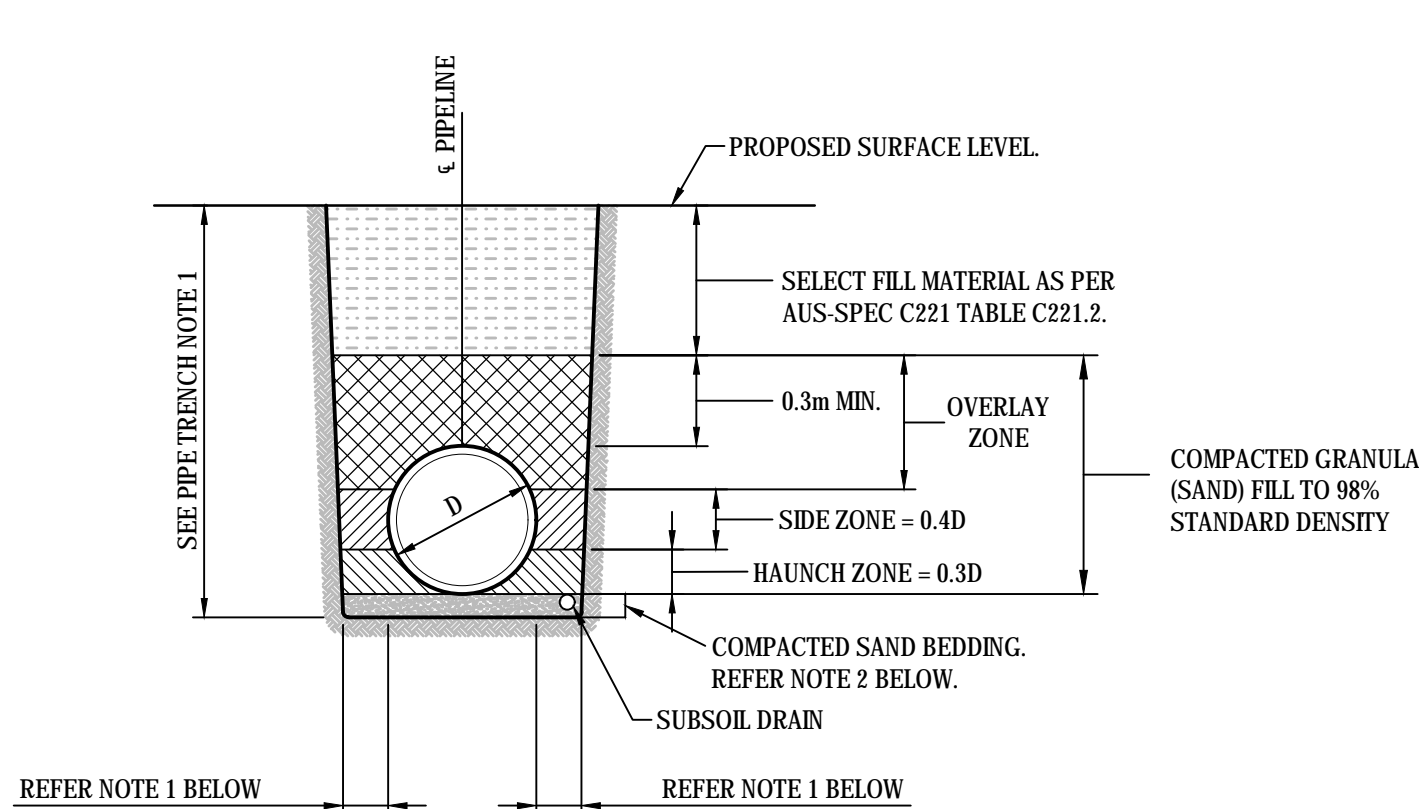
NOTE

1. ≥0.2D OR 0.3m (WHICHEVER IS GREATER)
2. 100mm FOR PIPE DIA. ≤1500



600 WIDE GRASSED SWALE

SCALE 1 : 20



PIPE TRENCH BELOW LANDSCAPING (HS3)

N.T.S.

NOTE

1. ≥0.2D OR 0.3m (WHICHEVER IS GREATER)
2. 100mm FOR PIPE DIA. ≤1500

PIPE TRENCH NOTES

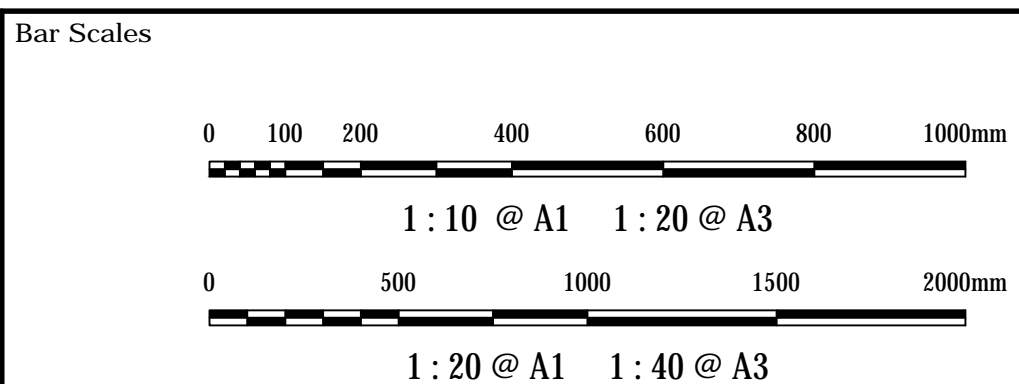
1. IN UNDERTAKING TRENCH EXCAVATION, THE CONTRACTOR SHALL PROVIDE ANY SHORING, SHEET PILING OR OTHER STABILISATION OF THE TRENCH NECESSARY TO COMPLY WITH OH&S REGULATION REQUIREMENTS. THE SIDES ARE NOT TO BE LOADED & SHALL BE KEPT CLEAR OF LOOSE MATERIAL ETC. SAFE ACCESS & EGRESS SHALL BE PROVIDED AT ALL TIMES.
2. THE TRENCH SHALL BE EXCAVATED TO A WIDTH 1.4 TIMES THE EXTERNAL DIAMETER OF THE PIPE, OR TO THE EXTERNAL DIAMETER OF THE PIPE PLUS 300mm ON EACH SIDE, WHICHEVER IS THE GREATER.

NOTE

1. STANDARD GULLY PITS REFER TO STRATHFIELD COUNCIL STANDARD DRAWING FOR DETAILS
2. FOR INLET SIZE, PIT CHAMBER SIZE AND SETOUT REFER TO STORMWATER LONGITUDINAL SECTIONS ON DRAWING C851 - C854
3. REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATELY PROVIDE N12 'L' BARS (500x500) AT 400 VERTICAL CTS.
4. COMPRESSIVE STRENGTH (F_c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 32 MPa AT 28 DAYS.
5. TOP OF BENCHING SHALL BE $\frac{1}{2}$ OF OUTLET PIPE DIAMETER.
6. 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDE ADJACENT TO INLET PIPES.
7. ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP.
8. PIT GRATE TO BE 'WELDLÖK' GULLY GRATE GG 78-50 OR APPROVED EQUIVALENT.
9. DURING INSTALLATION OF GRATE AND FRAME CONTRACTOR IS TO ENSURE CLEARANCE BETWEEN LINTEL AND OPENED GRATE (REFER TO INSTALLATION TOLERANCE).
10. PROVIDE STEP IRONS AS INDICATED FOR PITS DEEPER THAN 1200.
11. N12 AT 200 CENTRALLY PLACED MAY BE USED IN LIEU OF MESH. LAP 500 AT CORNERS
12. MINIMUM REINFORCEMENT COVER TO BE 45mm UNLESS NOTED OTHERWISE
15. CHAMBER DEPTH EXCEEDING 2m IN HEIGHT WILL BE DESIGNED AND APPROVED BY STRUCTURAL ENGINEER
16. CONCRETE STRENGTH: - UNLESS NOTED OTHERWISE

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

Issue	Description	Date
C	ISSUED FOR DEVELOPMENT APPROVAL	10-05-19
B	ISSUED FOR REVIEW	09-04-19
A	ISSUED FOR INFORMATION	03-11-18



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Client

BRICKWORKS
LIMITED

Scales	1 : 10 1 : 20	Drawn	QD
		Designed	QD
Grid	MGA	Checked	SH
Height Datum	AHD	Approved	

Project

**BRICKWORKS
PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK**

Title

**STORMWATER DETAILS
SHEET 1**

Civil Engineers and Project Managers

at&l

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ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9423 1055
www.atl.net.au
info@atl.net.au

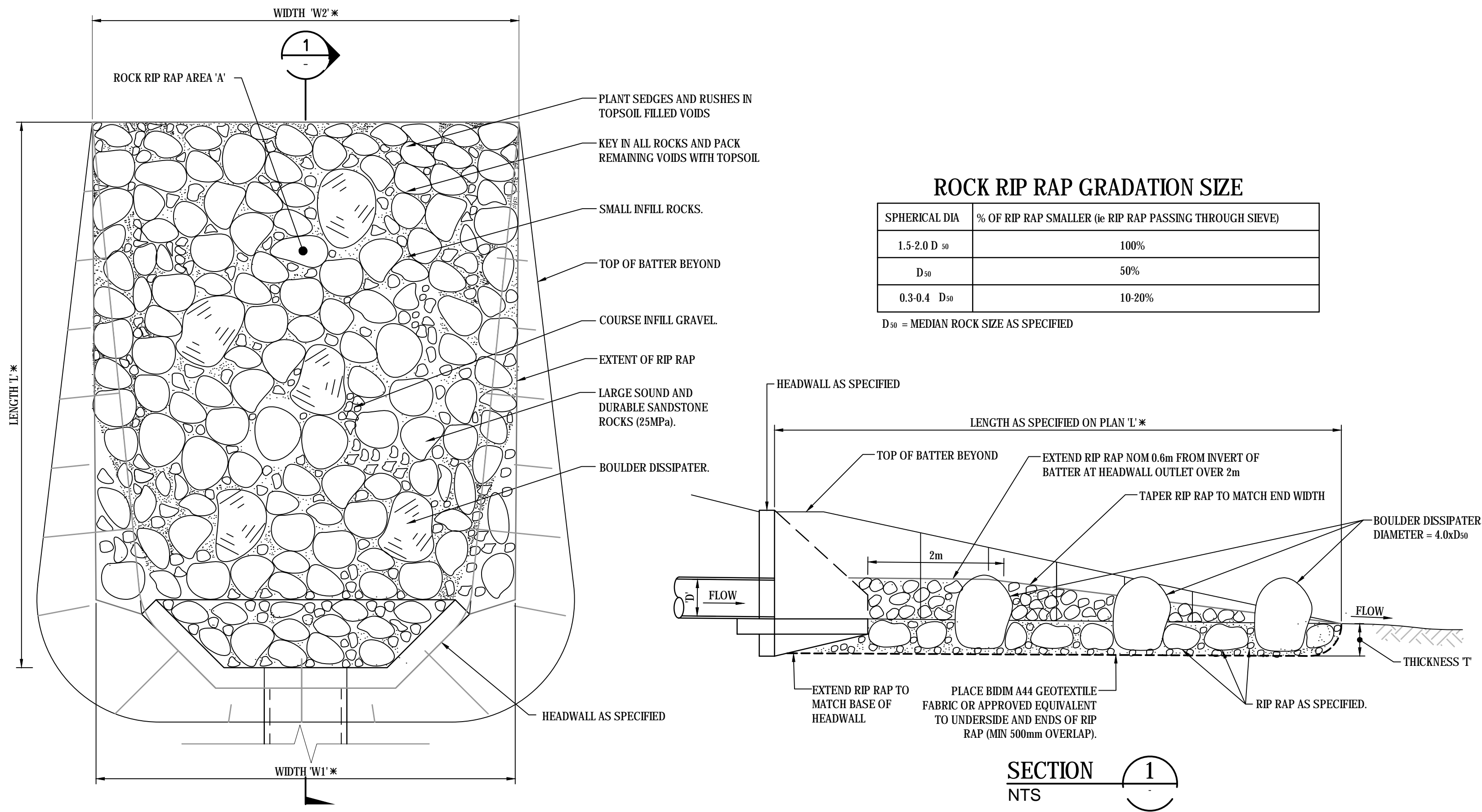
Status

**FOR REVIEW
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DAC055

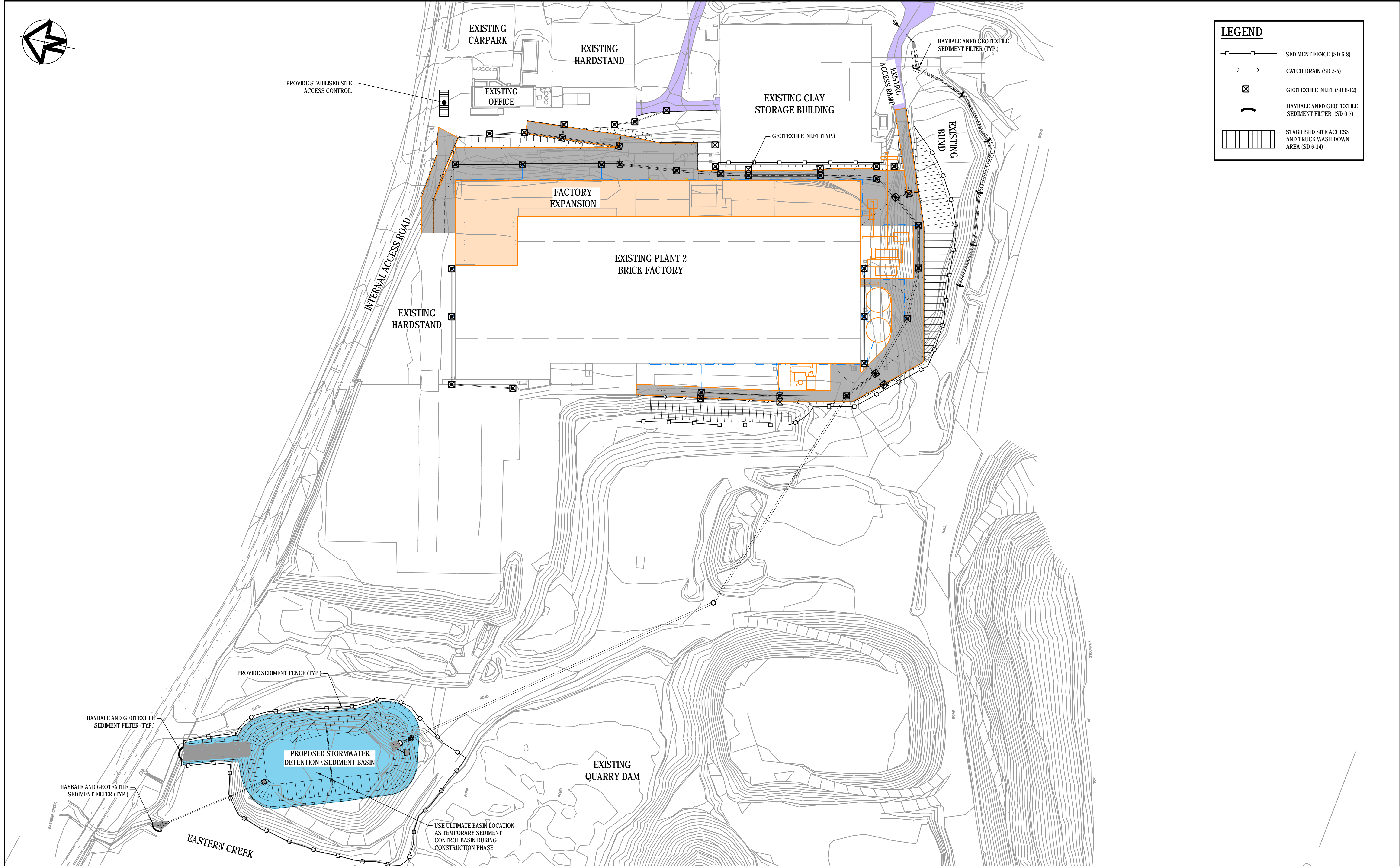
Project No.
18-577

Issue
C

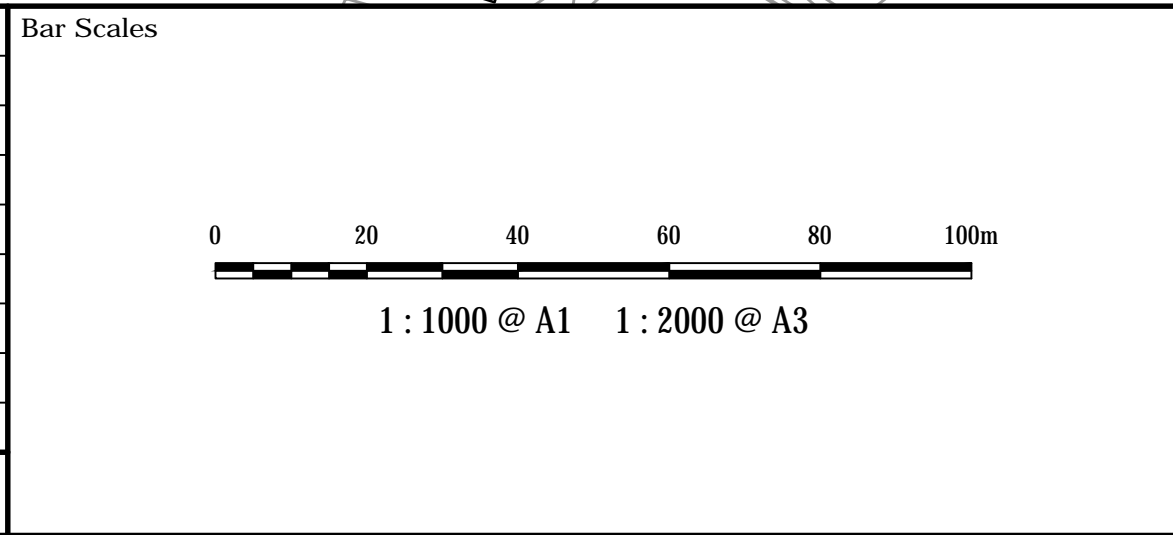


PLAN
SCALE NTS
TYPICAL ROCK RIP RAP ENERGY DISSIPATER SCOUR PROTECTION DETAIL
SCALE NTS
* - REFER SCOUR PROTECTION SCHEDULE ON THIS DRAWING

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B	ISSUED FOR REVIEW	09-04-19
A	ISSUED FOR INFORMATION	03-11-18
Issue	Description	Date



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		Designed	QD
Grid	MGA	Checked	SH
Height Datum	AHD	Approved	

Project

**BRICKWORKS
PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK**

Title

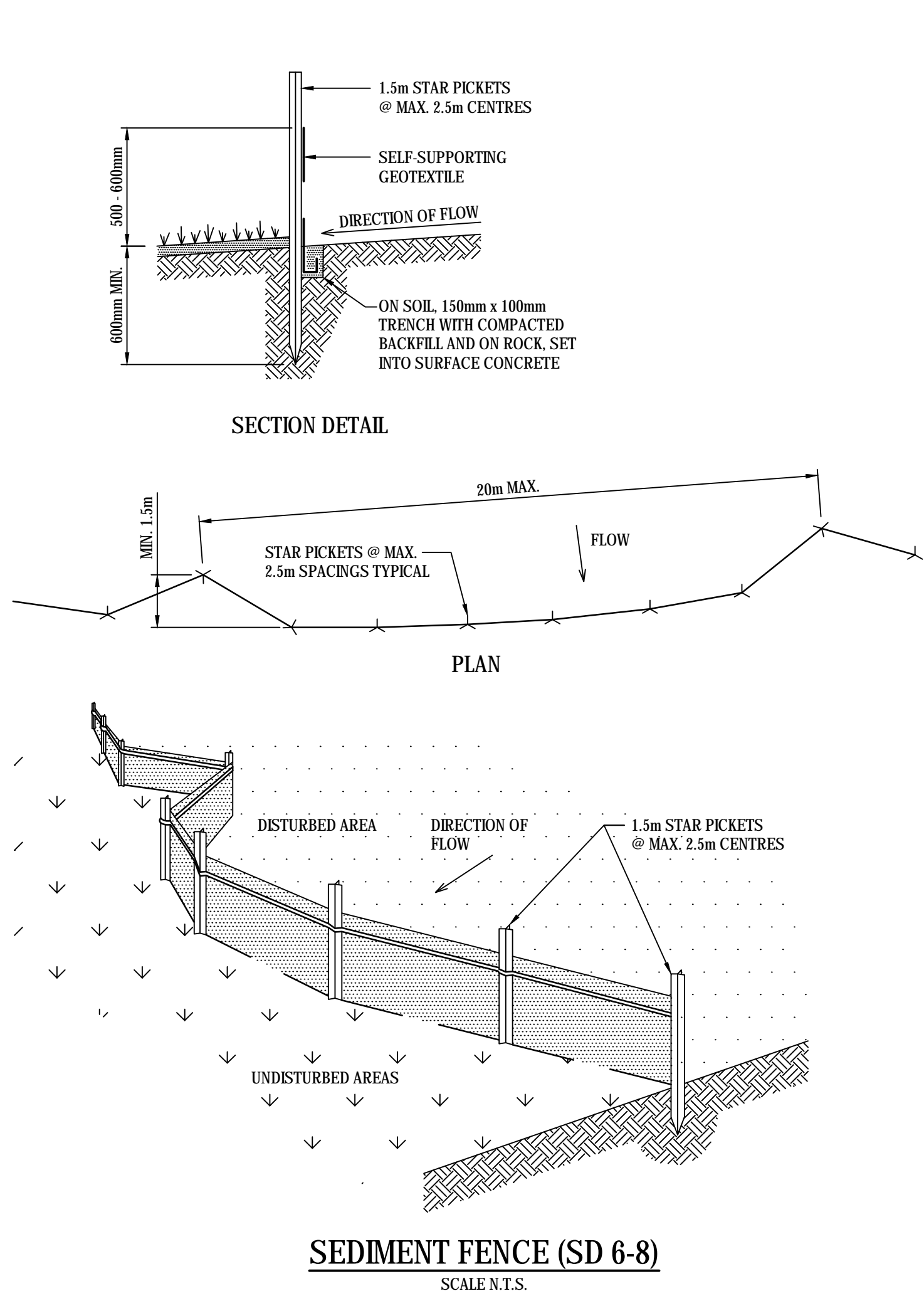
**EROSION AND SEDIMENT
CONTROL PLAN**

Civil Engineers and Project Managers

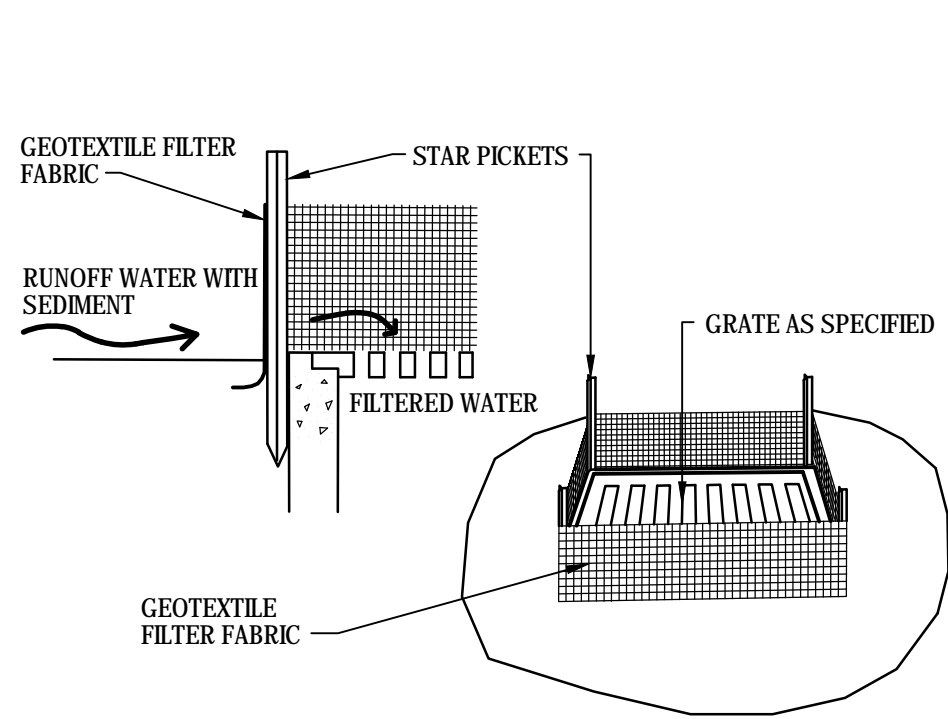
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Tel: 02 9439 1777
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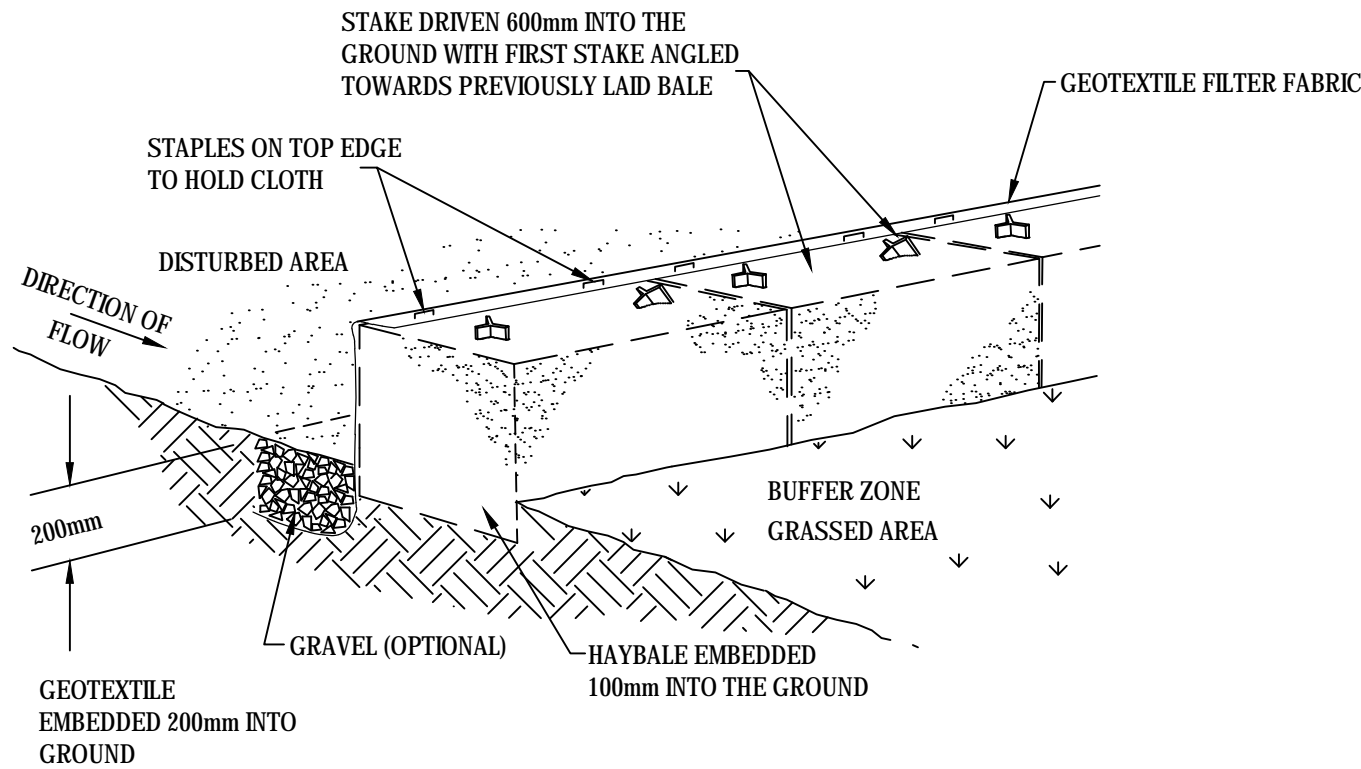
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Project No.	18-577	C



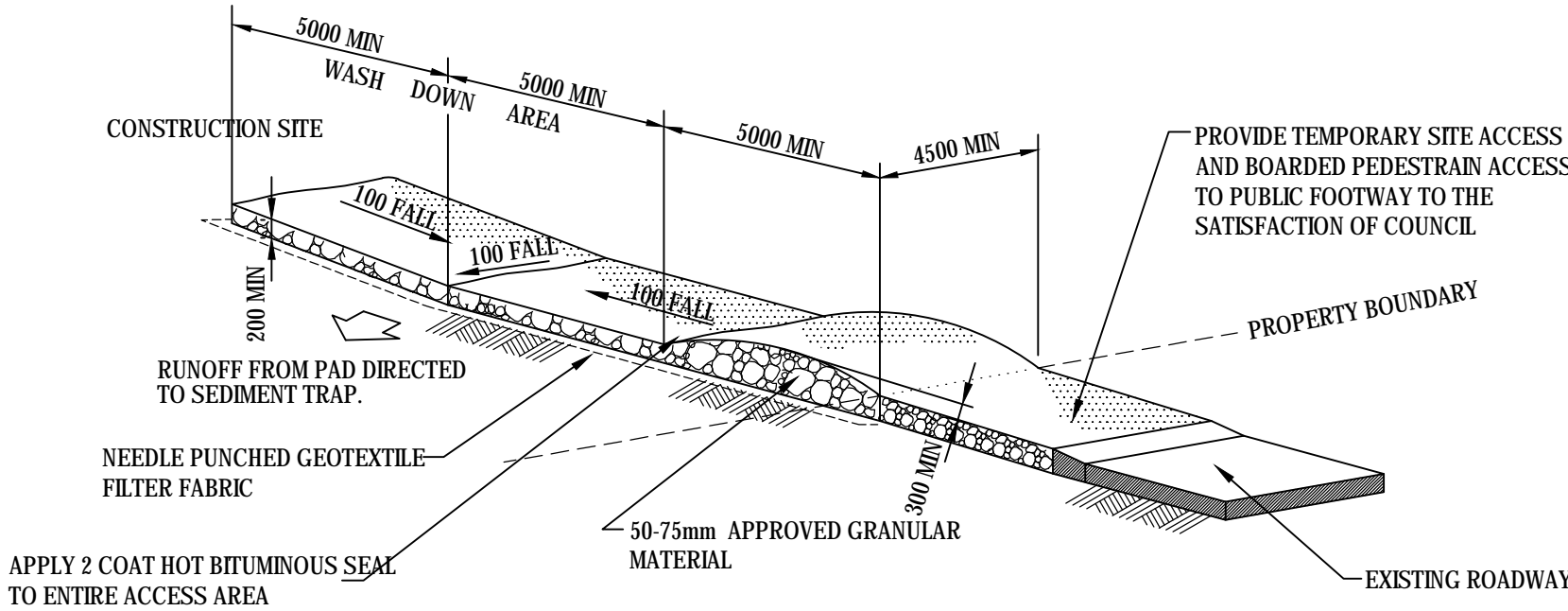
SEDIMENT FENCE (SD 6-8)
SCALE N.T.S.



GEOTEXTILE FILTER PIT SURROUND (SD 6-12)
NTS



HAYBALE AND GEOTEXTILE SEDIMENT FILTER (SD 6-7)
NTS



STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
NTS

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Scales

AS SHOWN

Drawn

QD

Grid

MGA

Height
Datum

AHD

Checked

SH

Approved

Project

**BRICKWORKS
PLANT2 UPGRADE
780 WALLGROVE ROAD
HORSLEY PARK**

Title

**EROSION AND SEDIMENT
CONTROL DETAILS**

Civil Engineers and Project Managers

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