

NEWCOLD STORAGE FACILITY

LOT 124 ON DP1194052

PROPOSED CIVIL WORKS

FOR SECTION 96 APPROVAL

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 NEWCOLD SYDNEY	Scales AS SHOWN	Drawn	TH	Project LOT 124 ON DP1194052 MARSDEN PARK INDUSTRIAL PRECINCT	Civil Engineers and Project Managers  Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au			
					Designed	TH						
					Grid MGA	Checked	AT					
					Height Datum AHD	Approved						
								Title COVERSHEET, LOCALITY PLAN AND DRAWING LIST				
								Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION		A1		
B	REVISED ARCHITECTURAL LAYOUT				13-10-17					Drawing No. DAC001	Project No. 17-3078	Issue B
A	ISSUED FOR APPROVAL				18-04-17							
Issue	Description				Date							

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY FREEBORN SURVEYING, 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 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.

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 A T. 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 EXCLUDING 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:

1. STORMWATER DESIGN CRITERIA:
 - (A) AVERAGE REGURGESANCE INTERVAL:
 - 1100 YEARS: ROOF DRAIN PIPES TO SURCHARGE PIT
 - 120 YEARS: EXTERNAL PAVEMENTS
 - (B) RAINFALL INTENSITIES:
 - TIME OF CONCENTRATION: 5 MINUTES
 - 1100 YEARS= 218 mm/hr
 - 120 YEARS = 167 mm/hr
 - (C) RUNOFF COEFFICIENTS:

ROOF AREAS:	C ₁₀₀	=1.0
EXTERNAL PAVEMENTS:	C ₂₀	=1.0
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 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 (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. ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 8.2.
14. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PIPES, 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.

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 PLACENT 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 E 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 (M1) 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 (1996).

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.

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 APPLIED GRANULAR MATERIAL. COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL. TO COMPLY WITH RMS. FORM 3051 (UNBOUND). RMS. FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1
FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL. TO COMPLY WITH RMS. FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1
FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS. FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O.
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 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.

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.

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

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.

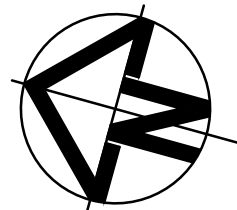
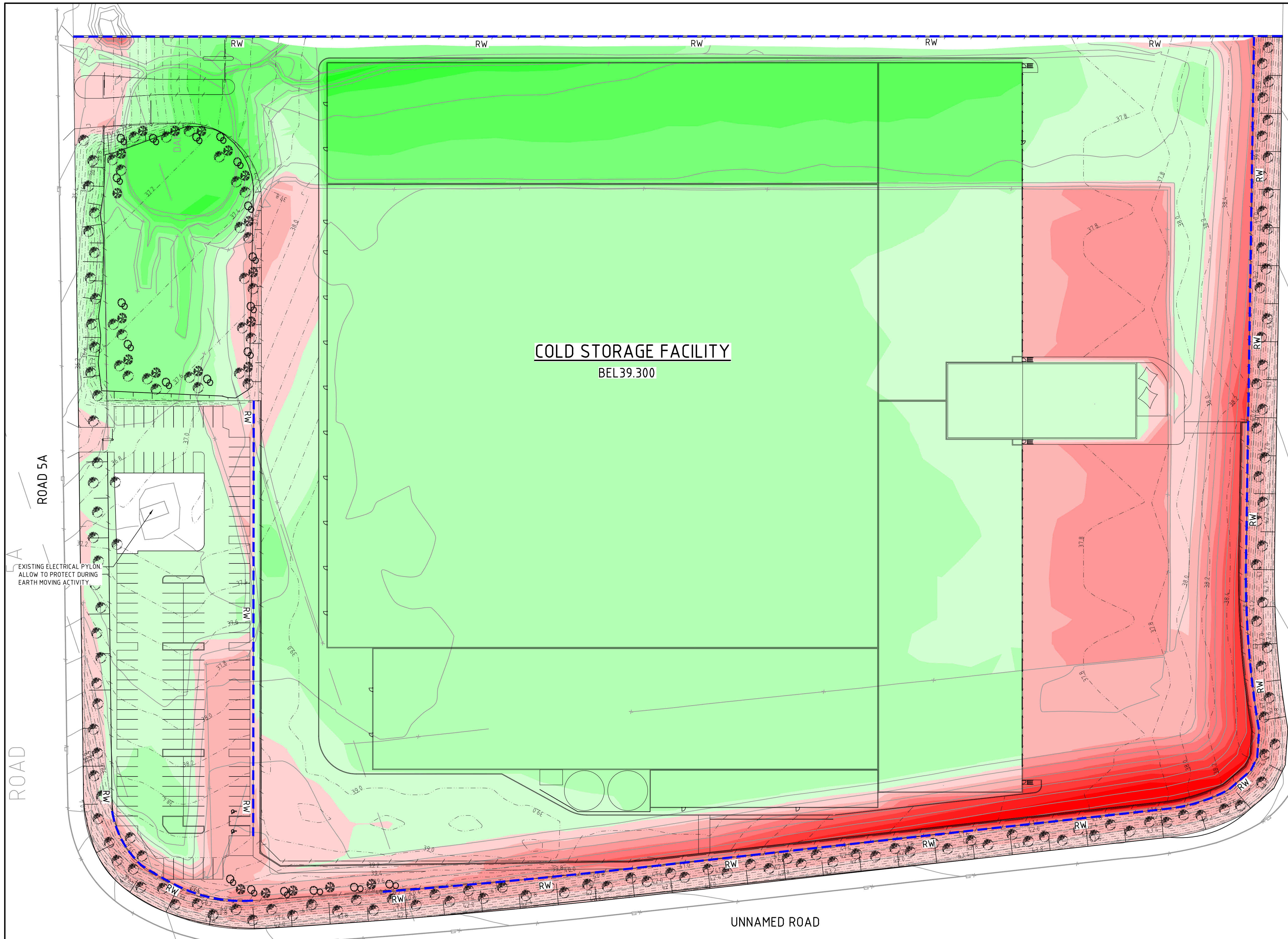
THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAS BEEN COMPILED VIA WAE

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.

PRIOR TO THE COMMENCEMENT OF THE WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT A LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES

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							Designed TH	LOT 124 ON DP1194052 MARSDEN PARK INDUSTRIAL PRECINCT			 Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au			
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							Height Datum AHD	Approved	Title	GENERAL NOTES	Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1	
B	REVISED ARCHITECTURAL LAYOUT	13-10-17												
A	ISSUED FOR APPROVAL	18-04-17												
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EARTHWORKS CUT/FILL DEPTH RANGE LEGEND				
LOWER VALUE		UPPER VALUE		COLOUR
-4.5	to	-3.5	m	[Red]
-3.5	to	-3	m	
-3	to	-2.5	m	
-2.5	to	-2	m	
-2	to	-1.5	m	[Light Red]
-1.5	to	-1	m	
-1	to	-0.5	m	
-0.5	to	0.0	m	[Light Green]
0.0	to	0.5	m	
0.5	to	1.0	m	[Light Green]
1.0	to	1.5	m	
1.5	to	2	m	[Light Green]
2	to	2.5	m	
2.5	to	3	m	[Light Green]
3	to	3.5	m	
3.5	to	6.5	m	[Light Green]

HOLLINSWORTH ROAD

EARTHWORKS LEGEND	
	PROPOSED RETAINING WALL
	PROPOSED BULK EARTHWORKS CONTOUR
	EXISTING SURFACE CONTOUR

BULK EARTHWORKS VOLUMES	
TOTAL CUT:-	18,505m ³
TOTAL FILL:-	41,035m ³
IMPORT OF FILL REQUIRED:-	22,530m ³

- NOTES**
- EARTHWORKS VOLUMES DENOTED ARE APPROXIMATE ONLY AND HAVE BEEN CALCULATED BETWEEN THE PROPOSED BULK EARTHWORKS SURFACE LEVEL AND THE EXISTING SURFACE LEVEL. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING:
 - STRIPPING AND STOCKPILING OF EXISTING TOP SOIL
 - BULKING FACTORS AND/OR SHRINKAGE FACTORS
 - REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
 - PROPOSED LANDSCAPING
 - STORMWATER AND UTILITIES TRENCHING
 - SEDIMENT BASINS
 - BACKFILLING BEHIND RETAINING WALLSREFER TO DAC202 PAVEMENT PLAN FOR DEPTHS OF PAVEMENTS
 -

Issue	Description	Date
B	REVISED ARCHITECTURAL LAYOUT	13-10-17
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Bar Scales

0 10 20 30 40 50m

1: 500 @ A1 1: 1000 @ A3

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Client

NEWCOLD SYDNEY

Scales	1 : 500 @ A1	Drawn	TH
		Designed	TH
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	

Project

LOT 124 ON DP1194052
MARSDEN PARK INDUSTRIAL PRECINCT

Title

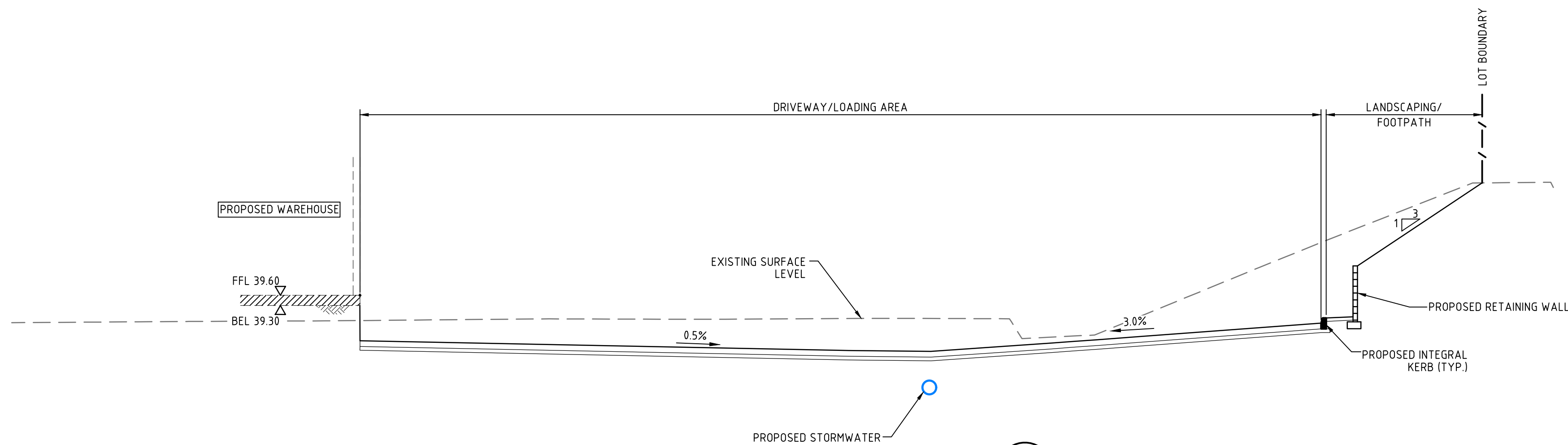
BULK EARTHWORKS LAYOUT PLAN

Civil Engineers and Project Managers

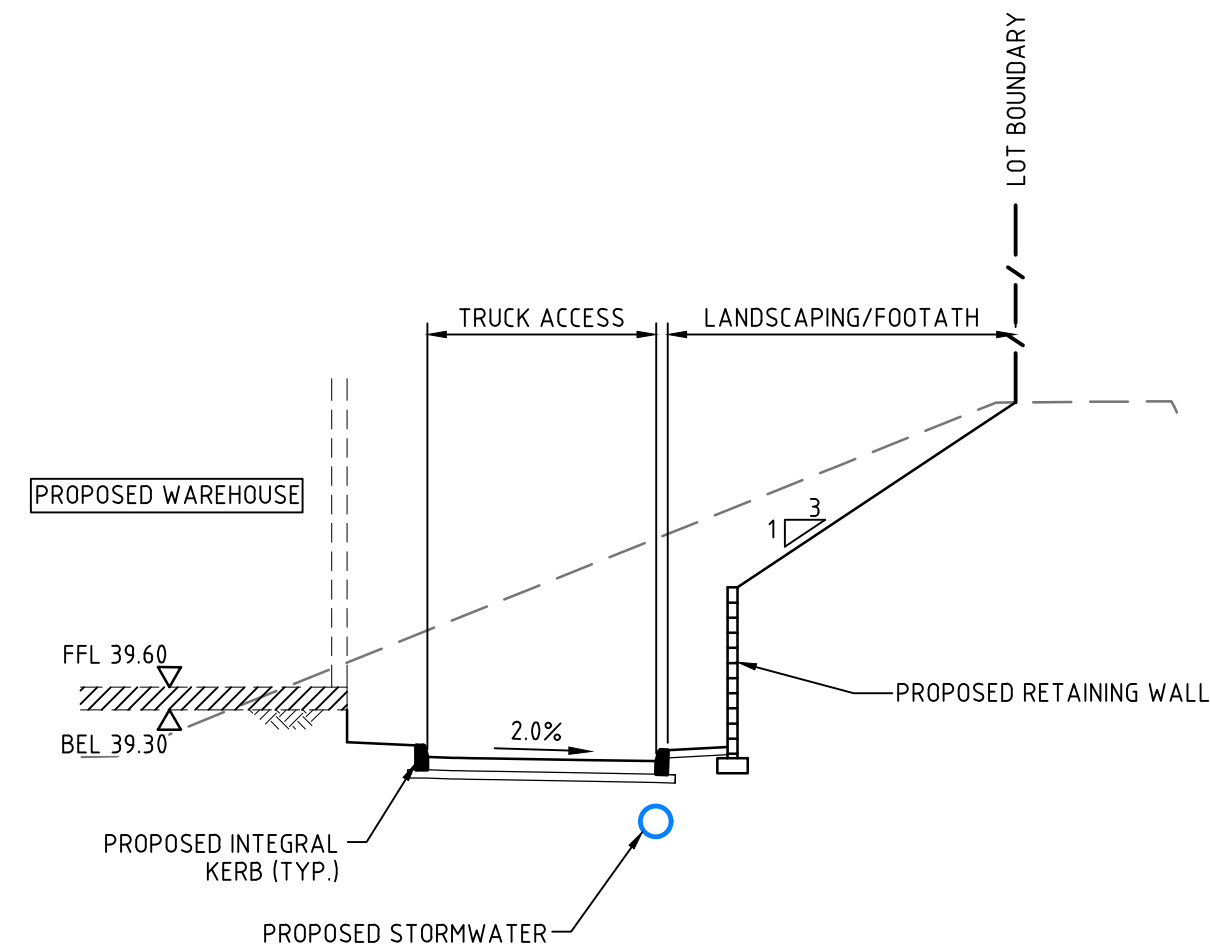
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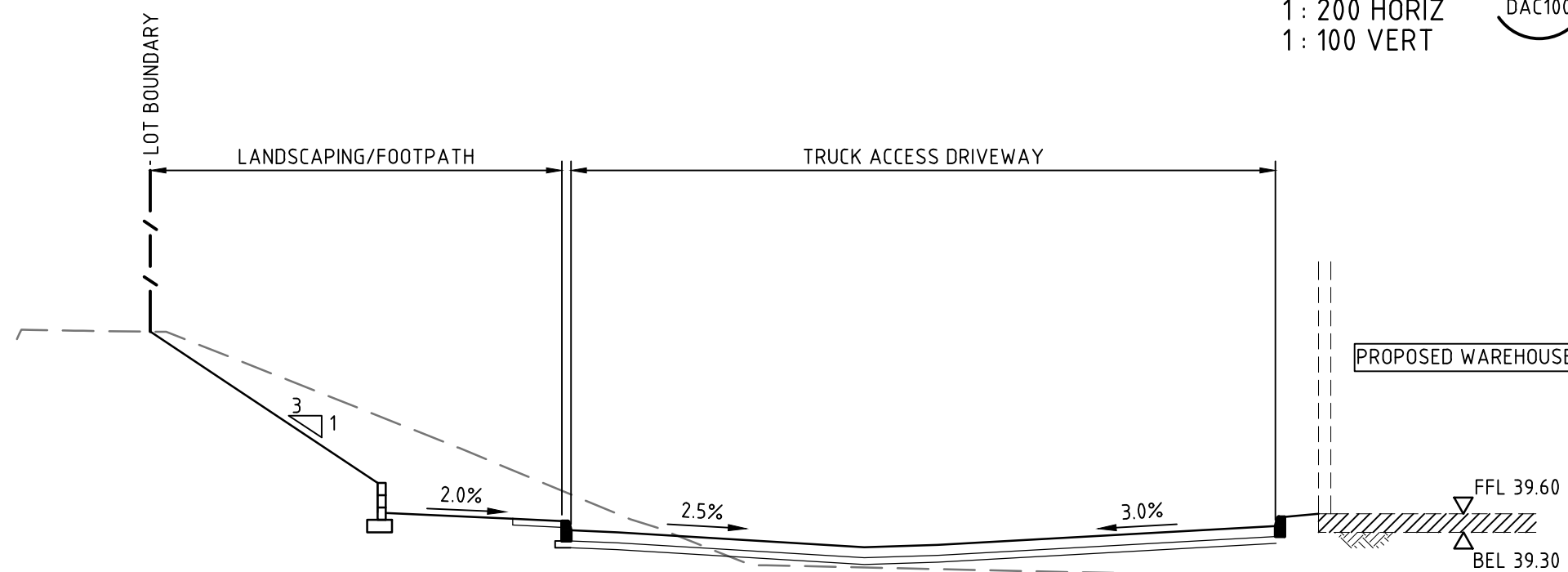
Status	FOR APPROVAL	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	Project No.	Issue
DAC100	17-3078	B



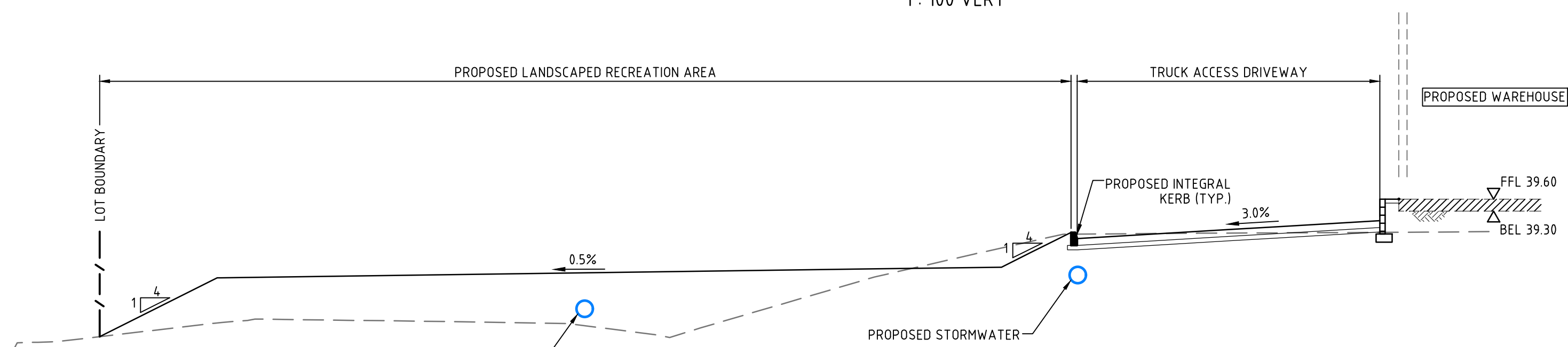
SECTION 1
1: 200 HORIZ
1: 100 VERT



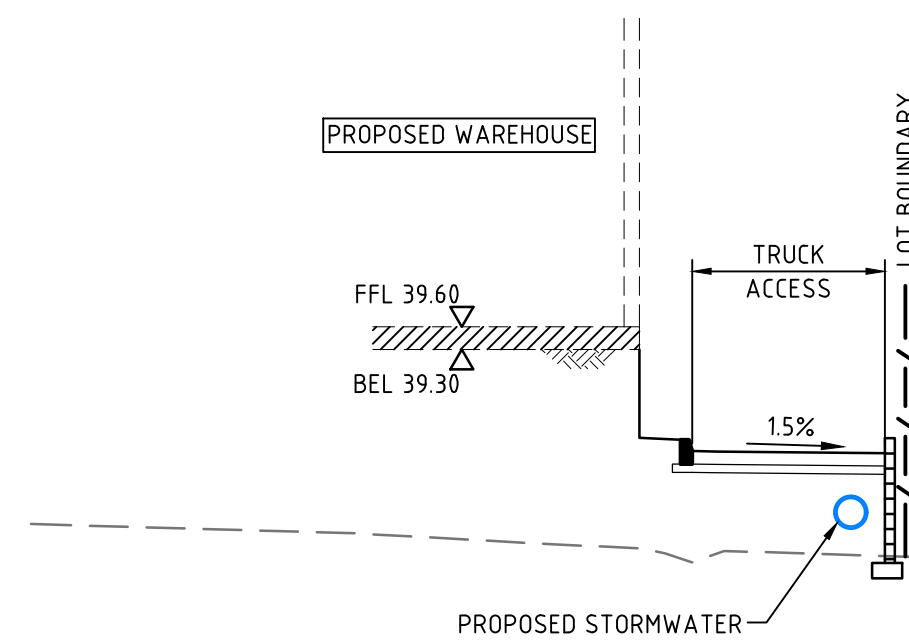
SECTION 2
1: 200 HORIZ
1: 100 VERT



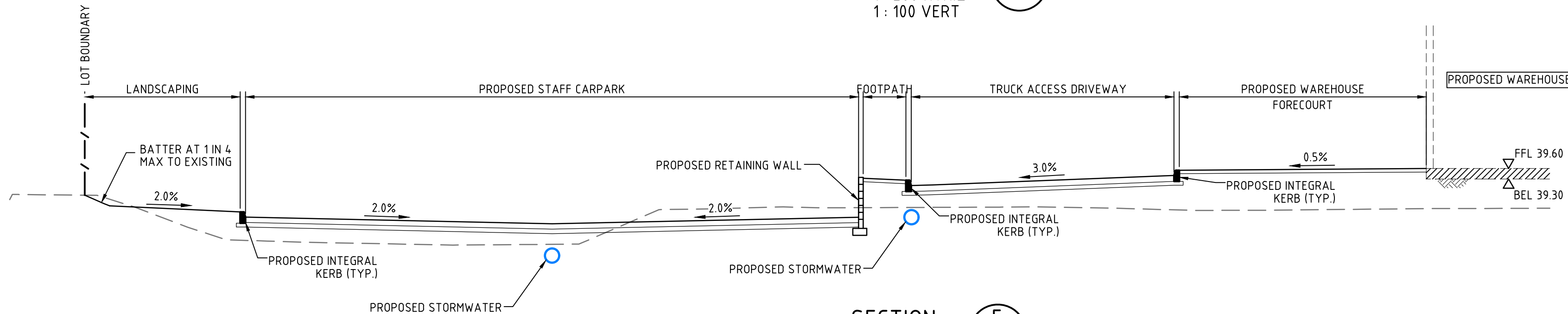
SECTION 3
1: 200 HORIZ
1: 100 VERT



SECTION 4
1: 200 HORIZ
1: 100 VERT



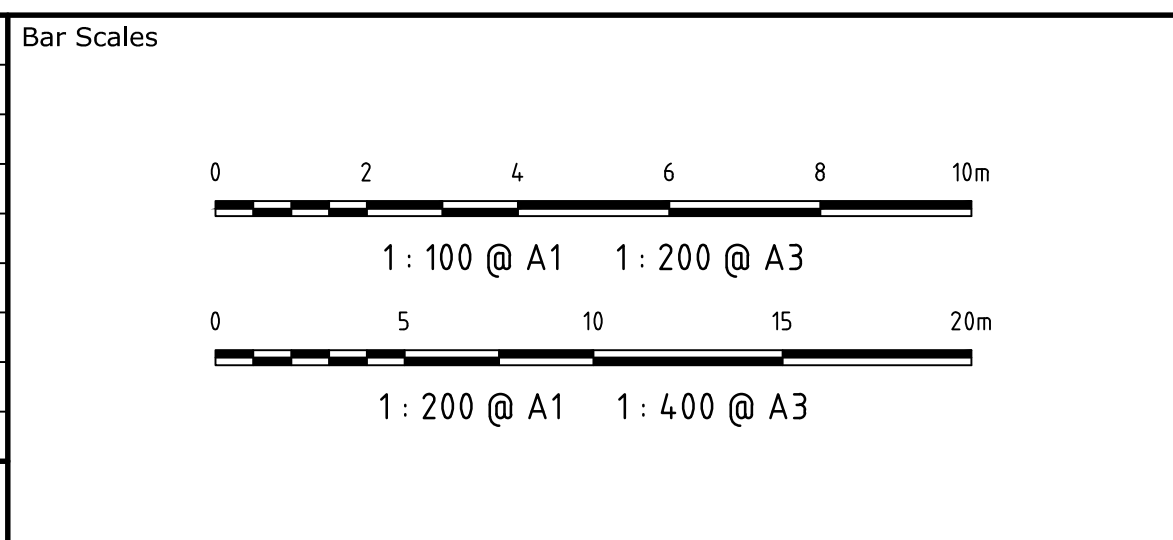
SECTION 6
1: 200 HORIZ
1: 100 VERT



SECTION 5
1: 200 HORIZ
1: 100 VERT

*NOTE:
ALL RETAINING STRUCTURES
DESIGNED AND CERTIFIED BY
OTHERS.

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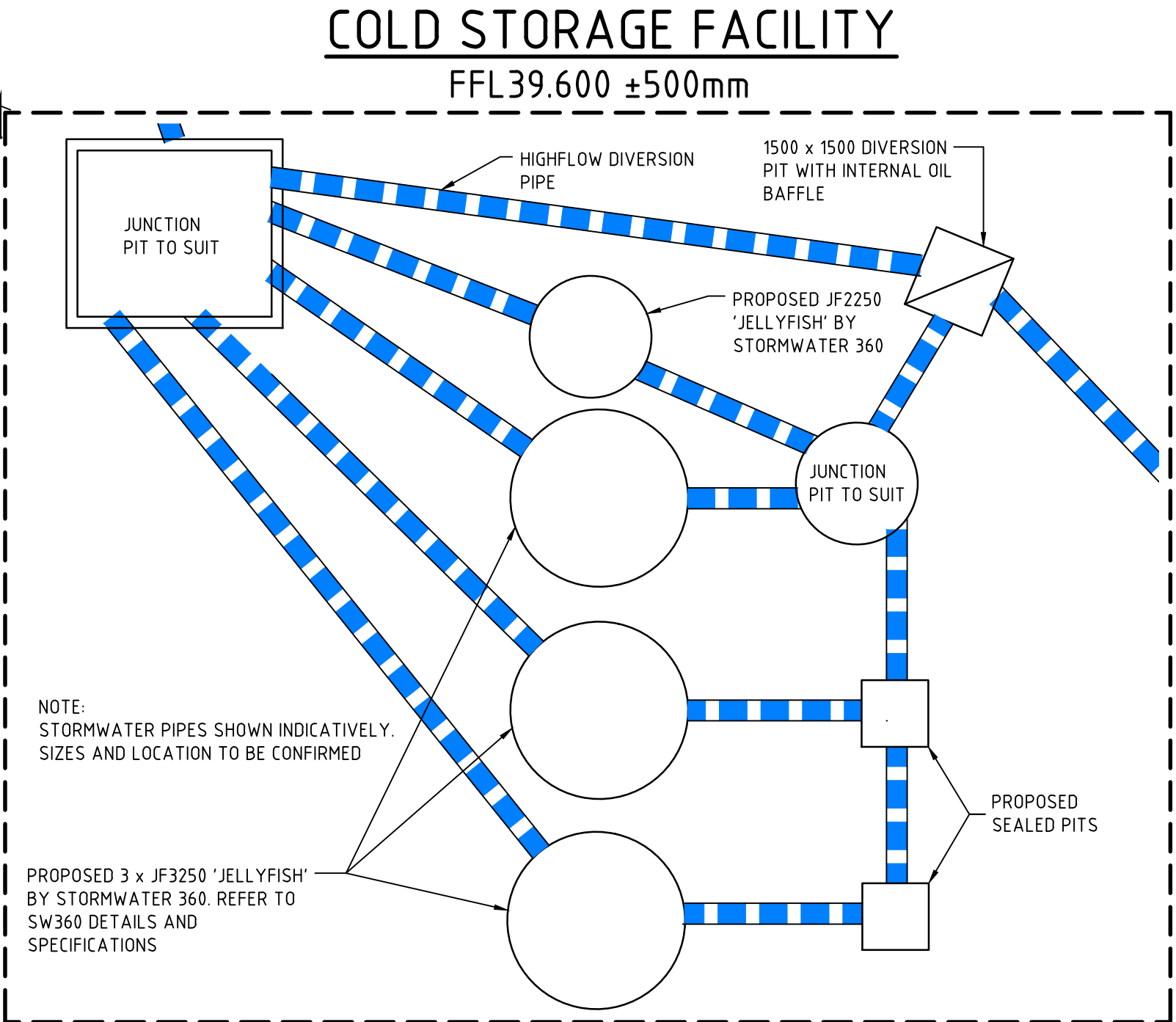
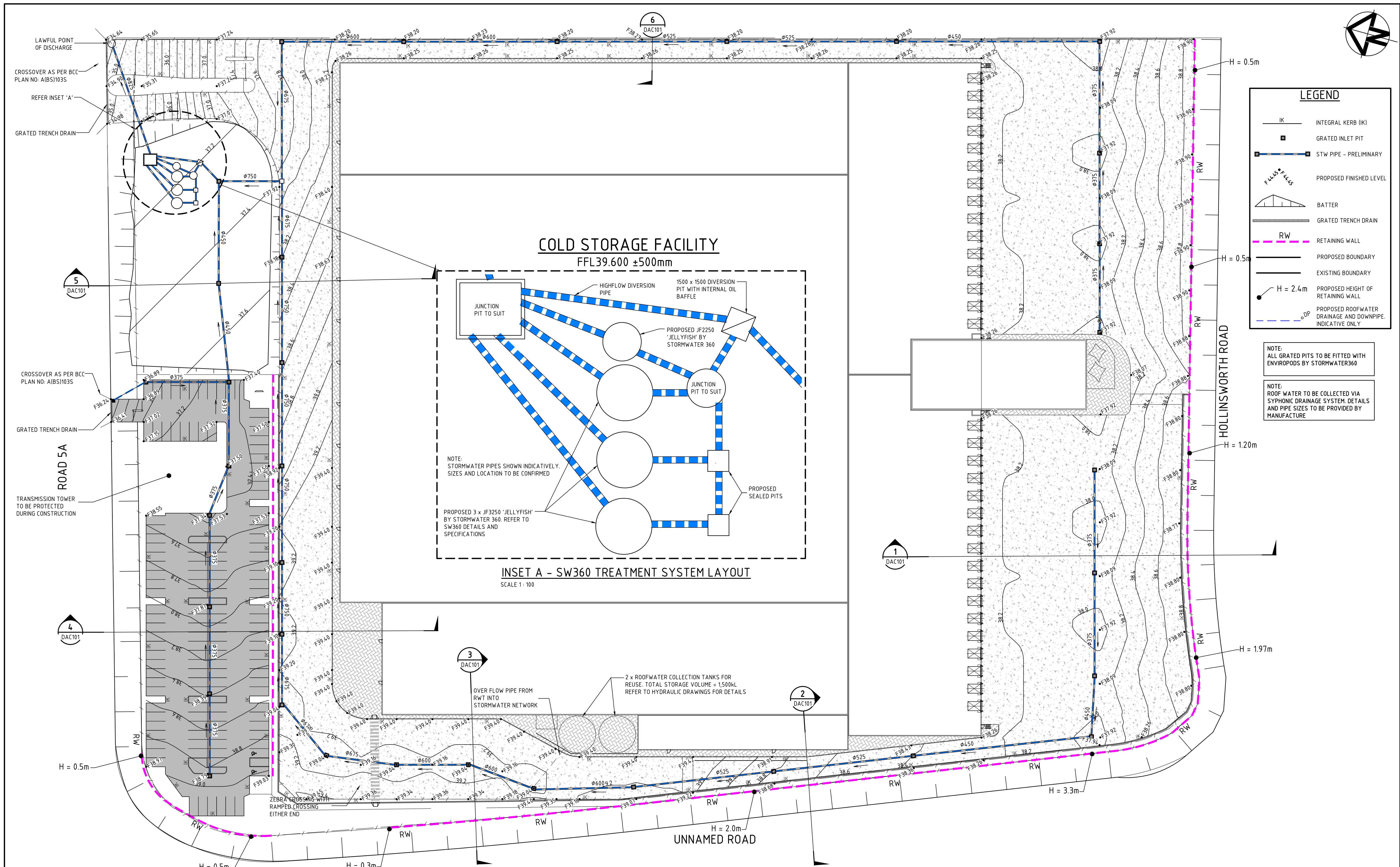
Client

NEWCOLD SYDNEY

Scales	AS SHOWN	Drawn	TH
		Designed	TH
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	

Project	LOT 124 ON DP1194052 MARSDEN PARK INDUSTRIAL PRECINCT
Title	EARTHWORKS TYPICAL SECTIONS

Civil Engineers and Project Managers		
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DAC101	17-3078	B



LEGEND

- IK INTEGRAL KERB (IK)
- Grated Inlet Pit
- STW PIPE - PRELIMINARY
- PROPOSED FINISHED LEVEL
- BATTER
- Grated Trench Drain
- RW RETAINING WALL
- PROPOSED BOUNDARY
- EXISTING BOUNDARY
- H = 2.4m PROPOSED HEIGHT OF RETAINING WALL
- PROPOSED ROOFWATER DRAINAGE AND DOWNPIPE. INDICATIVE ONLY

NOTE:
ALL GRATED PITS TO BE FITTED WITH ENVIPODS BY STORMWATER360

NOTE:
ROOF WATER TO BE COLLECTED VIA SYPHONIC DRAINAGE SYSTEM. DETAILS AND PIPE SIZES TO BE PROVIDED BY MANUFACTURE

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Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

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		Designed	TH
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Height Datum	AHD	Approved	

Project

LOT 124 ON DP1194052
MARSDEN PARK INDUSTRIAL PRECINCT

Title

SITEWORKS AND DRAINAGE LAYOUT PLAN

Civil Engineers and Project Managers

at&l

Suite 702, 154 Pacific Hwy
St Leonards NSW 2065
ABN 96 130 882 405
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Status

FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

Drawing No. 17-3078

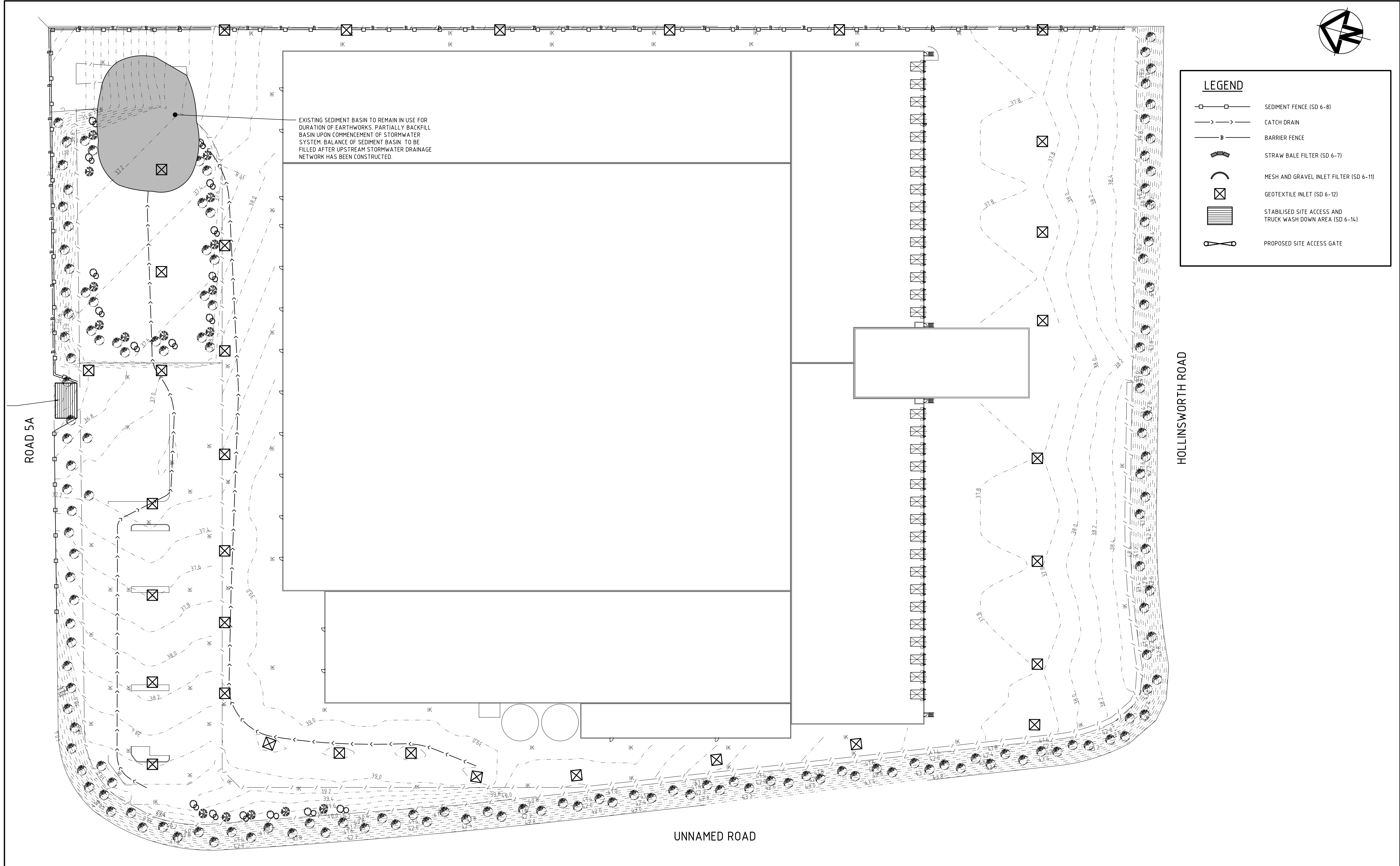
Project No. 17-3078

Issue B

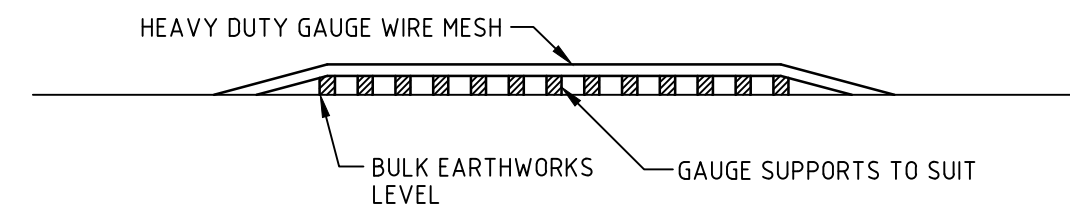
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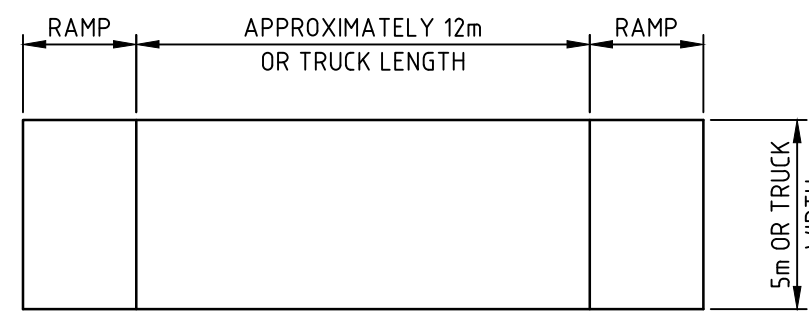
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		Bar Scales <
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ELEVATION

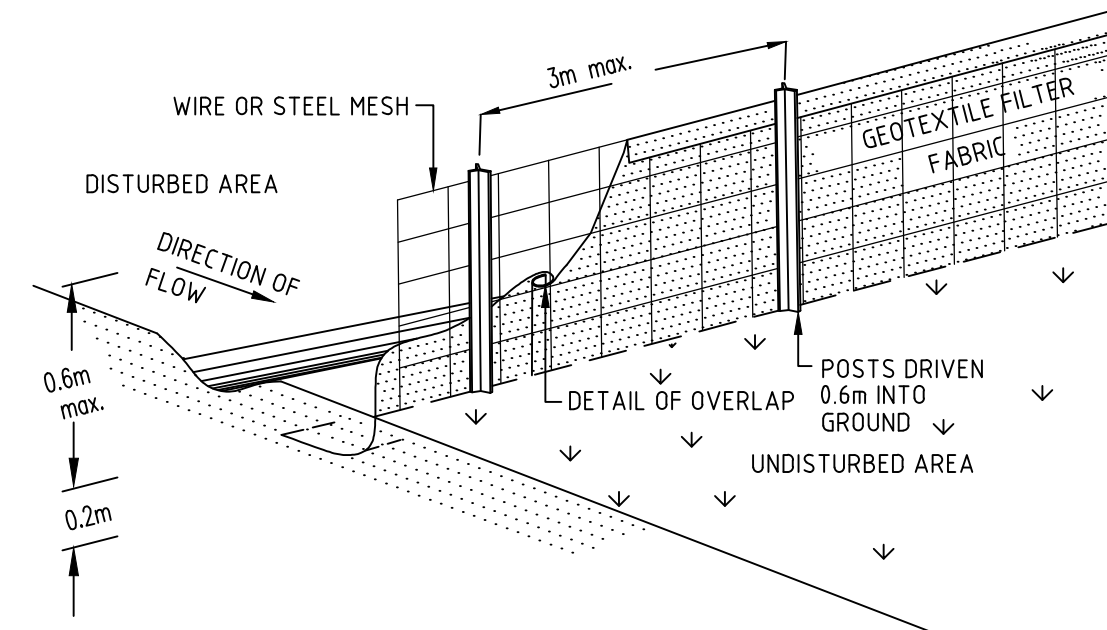


PLAN

TEMPORARY CONSTRUCTION EXIT
(WASH DOWN DETAIL)

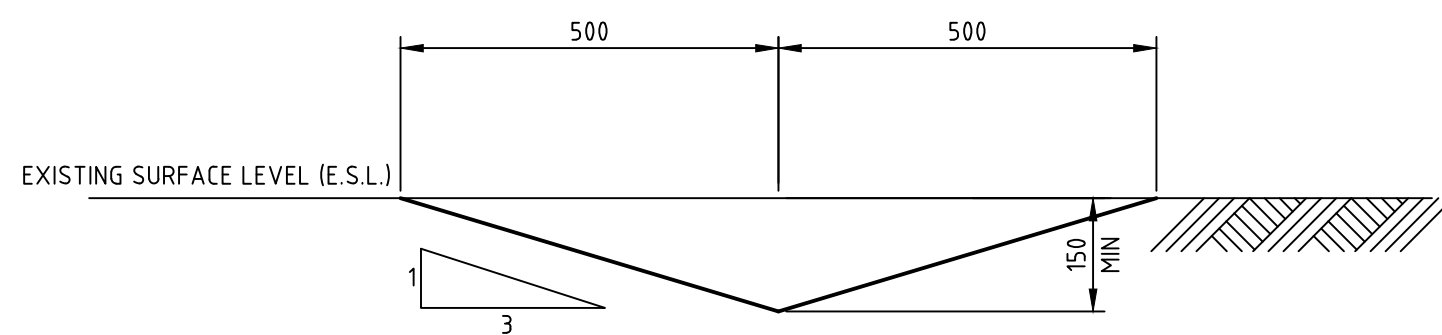
SCALE 1:200

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.



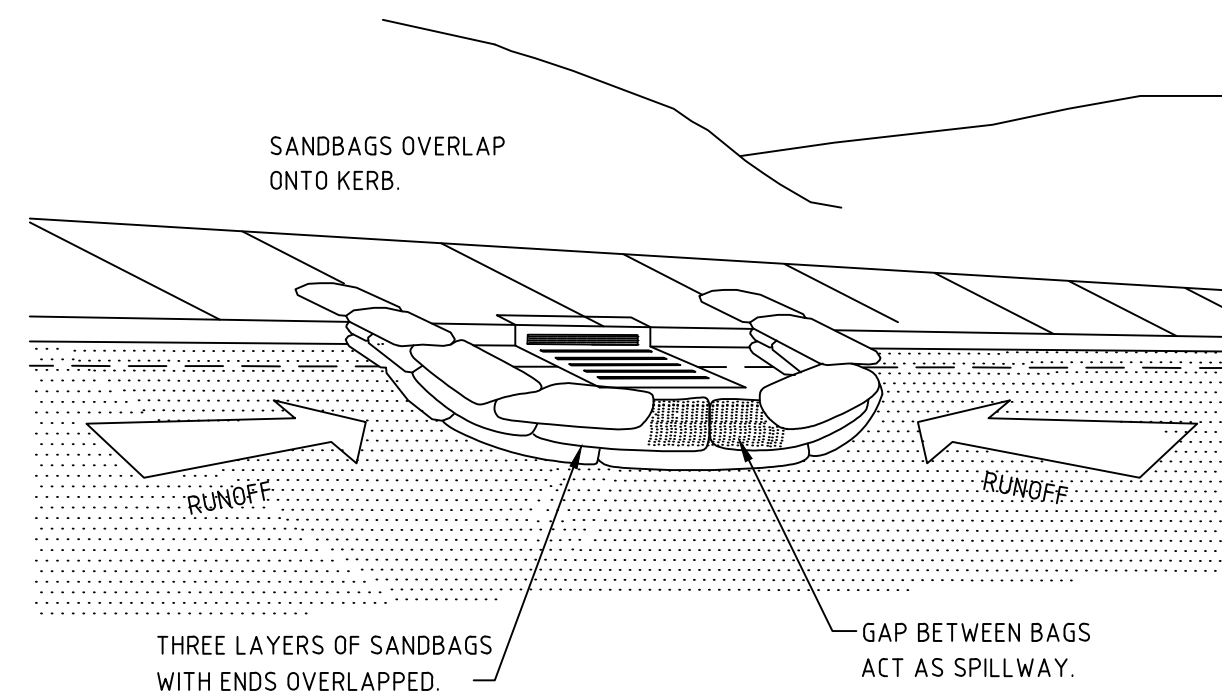
SEDIMENT FENCE

NTS



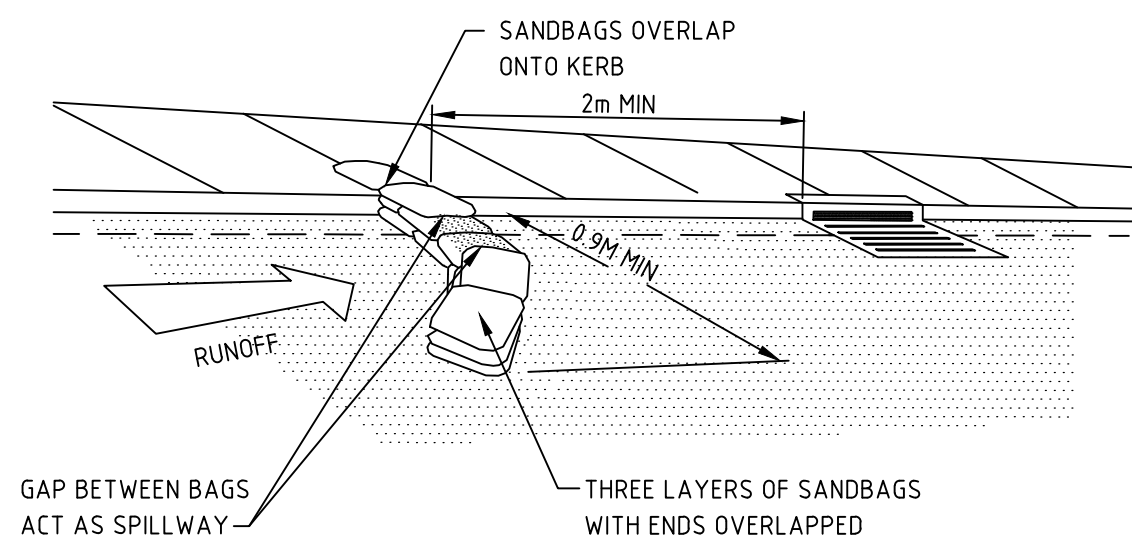
CATCH DRAIN
(MIN FALL 1%)

SCALE 1:10



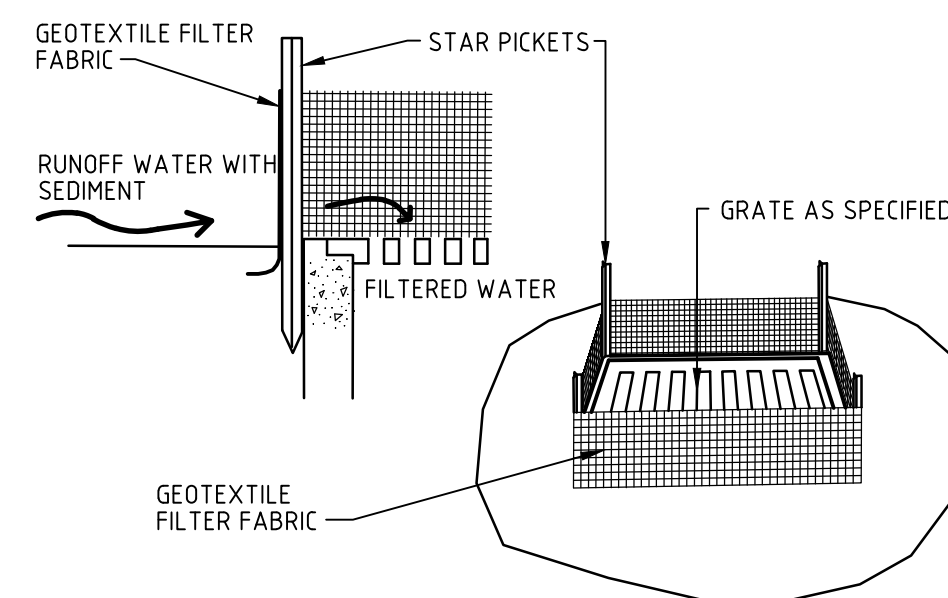
SANDBAG SEDIMENT TRAP
FOR KERB INLET AT LOWPOINT

NTS



MESH AND GRAVEL INLET FILTER
FOR KERB INLET ON GRADE

NTS



GEOTEXTILE INLET FILTER PIT SURROUND

NTS

B	REVISED ARCHITECTURAL LAYOUT	13-10-17
A	ISSUED FOR APPROVAL	18-04-17
Issue	Description	Date

Bar Scales	

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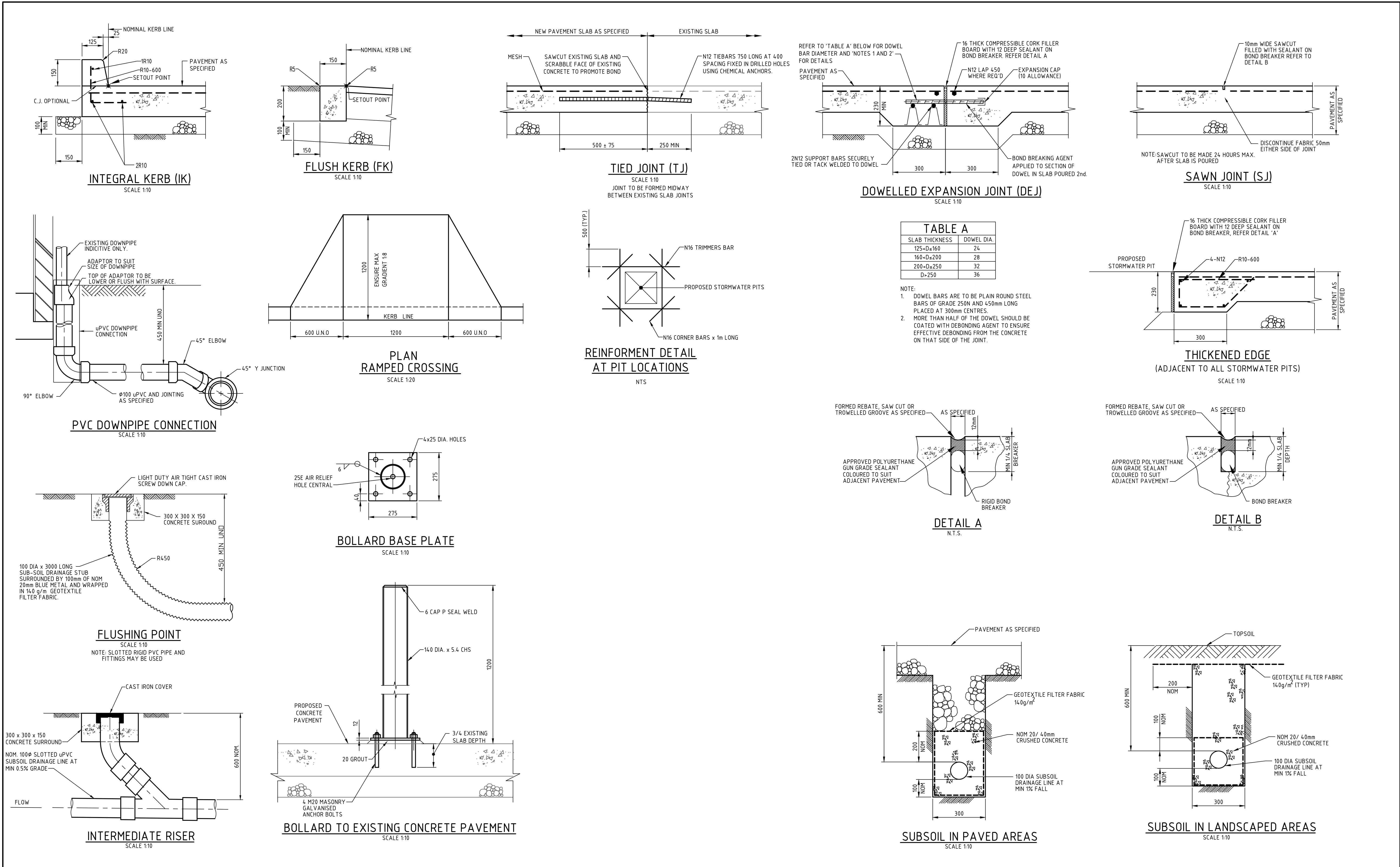
Client

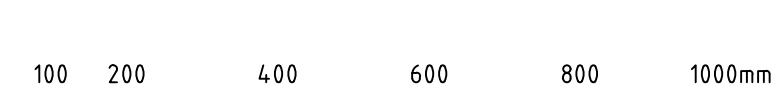
NEWCOLD SYDNEY

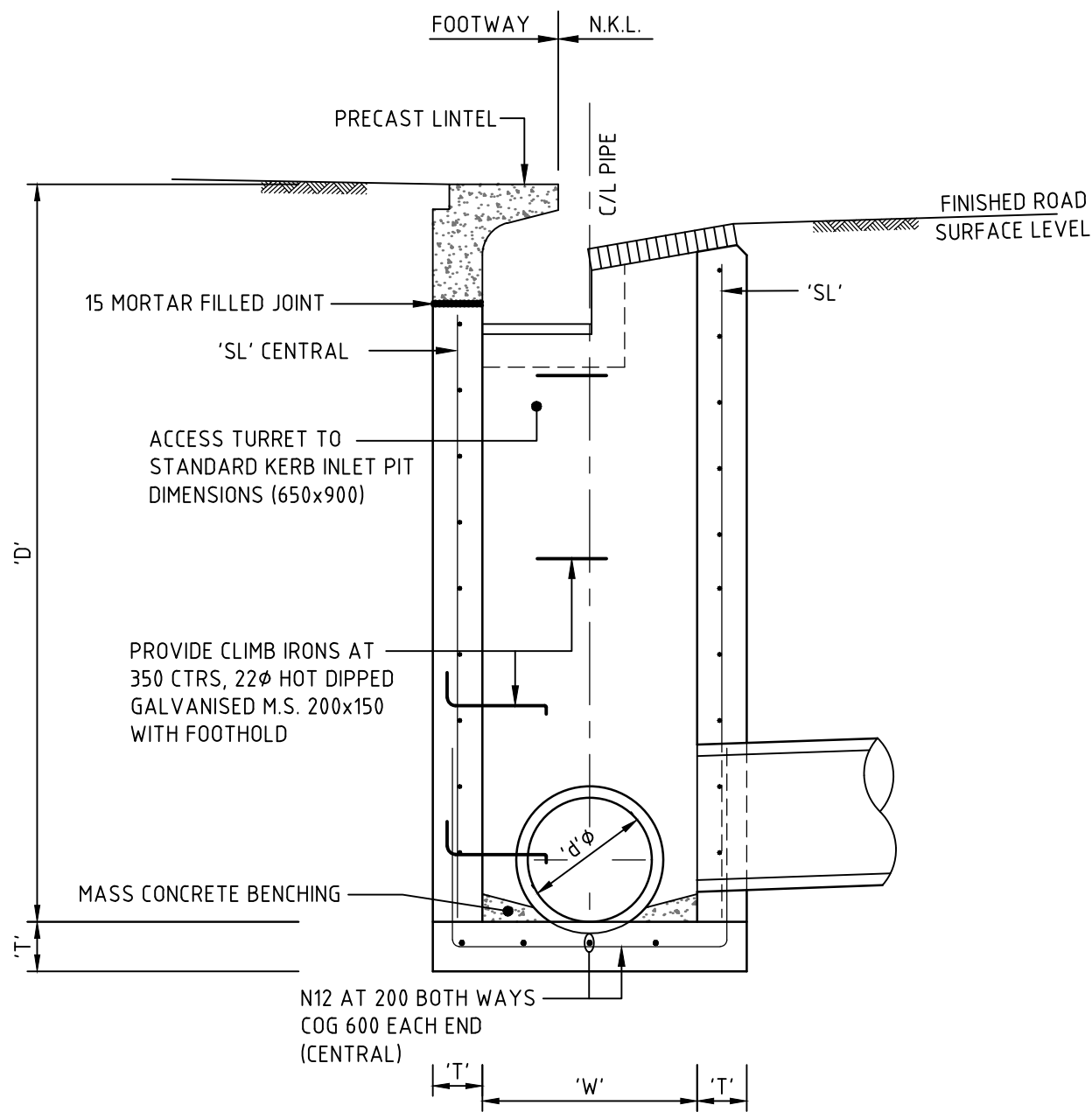
Scales 1 : 500 @ A1	Drawn	TH
	Designed	TH
Grid MGA	Checked	AT
	Approved	
Height Datum AHD		

Project LOT 124 ON DP1194052 MARSDEN PARK INDUSTRIAL PRECINCT	
Title EROSION AND SEDIMENT CONTROL DETAILS	

Civil Engineers and Project Managers at&L Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au		
Status NOT TO BE USED FOR CONSTRUCTION	FOR APPROVAL	A1
Drawing No. DAC301	Project No. 17-3078	Issue B



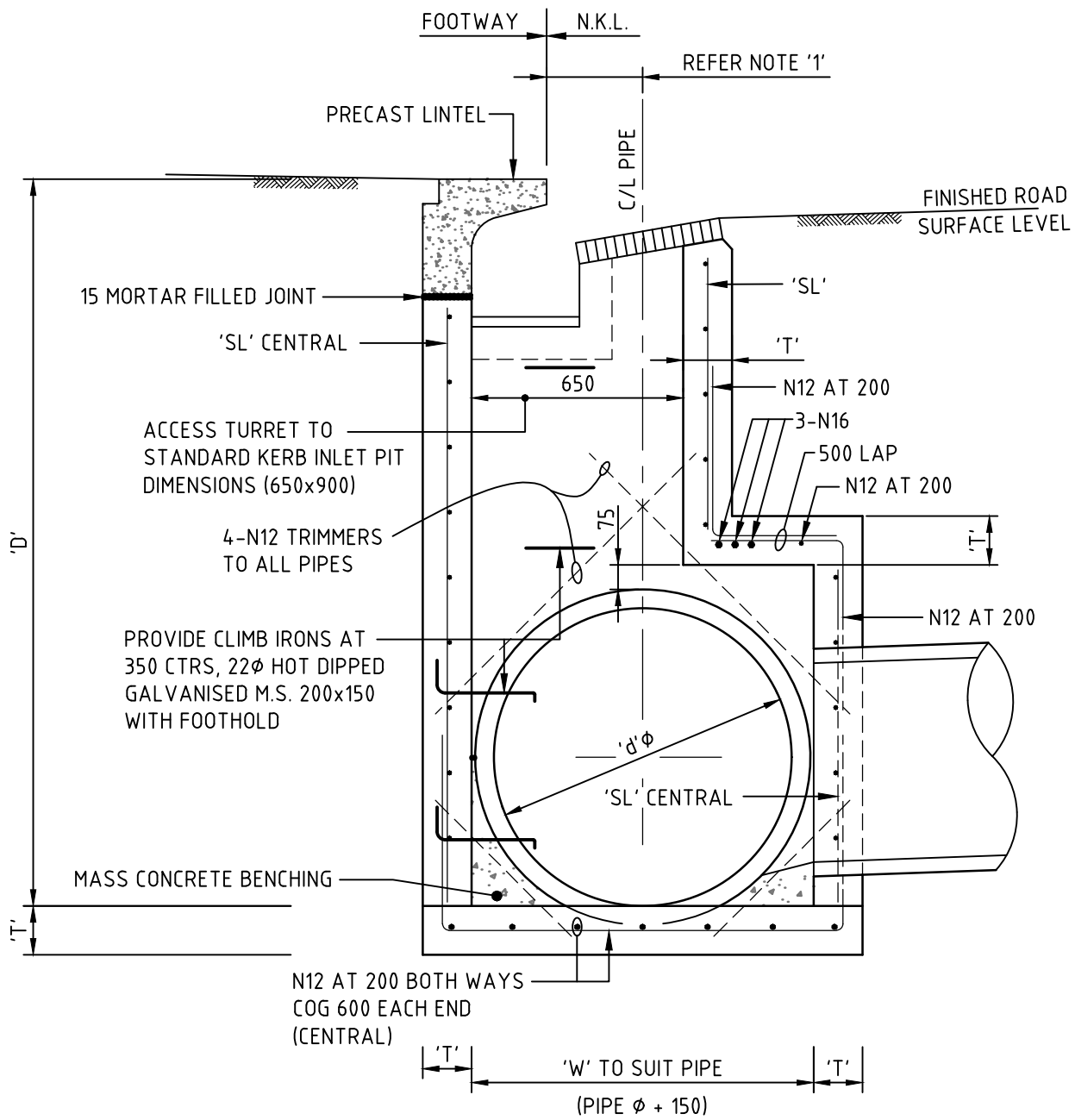
			Bar Scales 	THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	Client NEWCOLD SYDNEY	Scales AS SHOWN	Drawn Designed	TH TH	Project LOT 124 ON DP1194052 MARSDEN PARK INDUSTRIAL PRECINCT	Civil Engineers and Project Managers at&l Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au
B	REVISED ARCHITECTURAL LAYOUT	13-10-17								
A	ISSUED FOR APPROVAL	18-04-17								
Issue	Description	Date								



PIT TYPE 'A' DETAIL
STANDARD GRATED KERB INLET PIT
FOR PIPES UP TO 525Ø

SCALE: 1:20

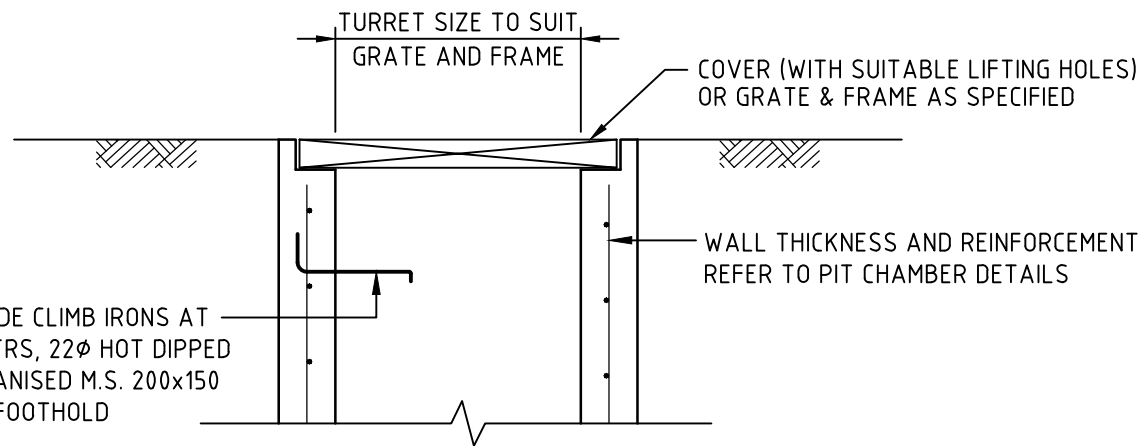
PIPE DIA. 'Ø'	WIDTH 'W'	DEPTH 'D'	WALL 'T'	FABRIC/COV 'SL'
375	650	800	150	SL72
	650	1200	150	SL72
	650	1600	150	SL72
	650	2000	150	SL72
	650	2400	150	SL72
450	650	800	150	SL72
	650	1200	150	SL72
	650	1600	150	SL72
	650	2000	150	SL72
	650	2400	150	SL72
525	650	800	150	SL72
	650	1200	150	SL72
	650	1600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



PIT TYPE 'B' DETAIL
STANDARD GRATED KERB INLET PIT
FOR PIPES FROM 600Ø TO 1350Ø

(ENLARGED CHAMBER)
SCALE: 1:20

PIPE DIA. 'Ø'	WIDTH 'W'	DEPTH 'D'	WALL 'T'	FABRIC/COV 'SL'
600	850	1200	150	SL72
	850	1600	150	SL72
	850	2000	150	SL72
	850	2400	150	SL72
	850	2800	150	SL72
675	940	1200	150	SL72
	940	1600	150	SL72
	940	2000	150	SL72
	940	2400	150	SL72
	940	2800	150	SL72
750	1020	1200	150	SL72
	1020	1600	150	SL72
	1020	2000	150	SL72
	1020	2400	150	SL72
	1020	2800	150	SL72
825	1100	1600	150	SL72
	1100	2000	150	SL72
	1100	2400	150	SL72
	1100	2800	150	SL72
	1100	3200	150	SL72
900	1180	1600	150	SL72
	1180	2000	150	SL72
	1180	2400	150	SL72
	1180	2800	150	SL72
	1180	3200	150	SL72
1050	1345	1600	150	SL92
	1345	2000	150	SL92
	1345	2400	150	SL92
	1345	2800	150	SL92
	1345	3200	150	SL92
1200	1510	2000	150	SL102
	1510	2400	150	SL102
	1510	2800	150	SL102
	1510	3200	150	SL102
	1510	3600	150	SL102
1350	1690	2000	200	N12@150
	1690	2400	200	N12@150
	1690	2800	200	N12@150



STANDARD SURFACE INLET
OR SEALED JUNCTION PIT

SCALE: 1:20

NOTE

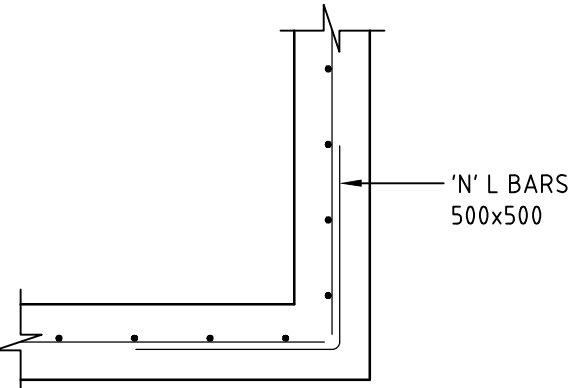
- FOR PIT SIZE REFER TO TABLE (900 MIN LONG).
- REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATLY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
- COMPRESSIVE STRENGTH (F_c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 32 MPa AT 28 DAYS.
-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

11. CONCRETE STRENGTH - UNLESS NOTED OTHERWISE

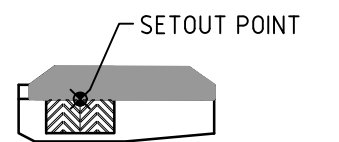
ELEMENT	f _c MPa (28 DAYS)	SLUMP	MAX AGG SIZE	CEMENT TYPE
PITS	32	80mm	20mm	GP

12. COVER - UNLESS NOTED OTHERWISE

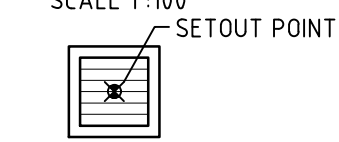
ELEMENT	INTERIOR	EXTERIOR
PITS	45mm	45mm
SLAB TOP	45mm	45mm
SLAB BOTTOM	45mm	45mm
BEAM TOP		
BEAM BOTTOM		
BEAM SIDE		
COLUMNS		



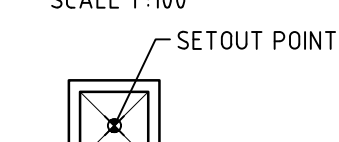
TYPICAL CORNER DETAIL
SCALE 1:20



KERB INLET PIT
SCALE 1:100

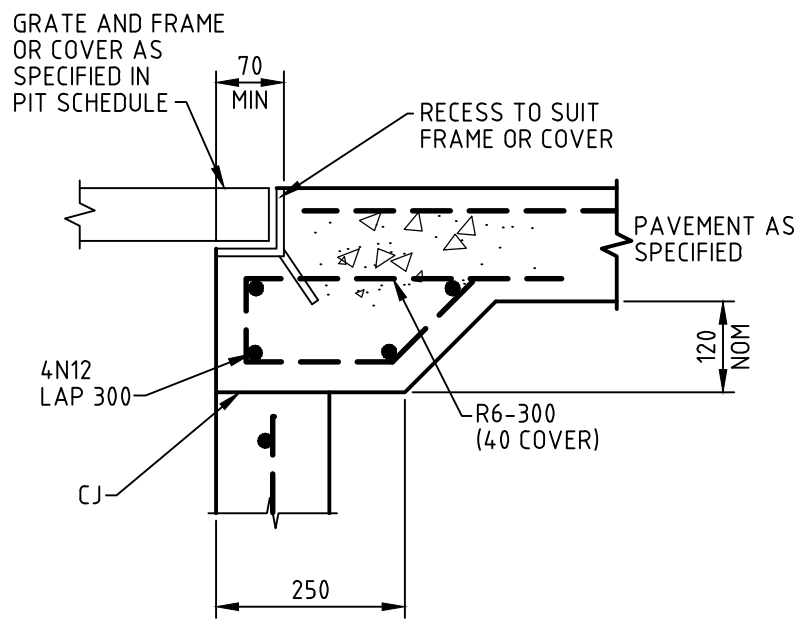


SURFACE INLET PIT
SCALE 1:100

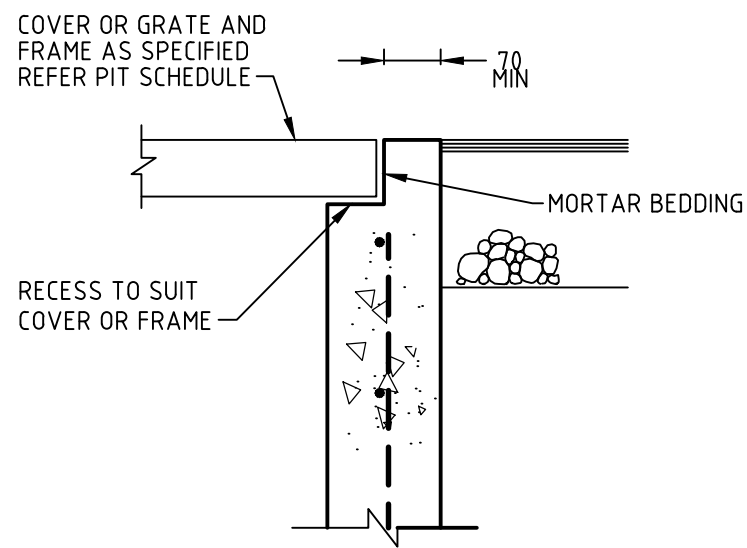


JUNCTION PIT
SCALE 1:100

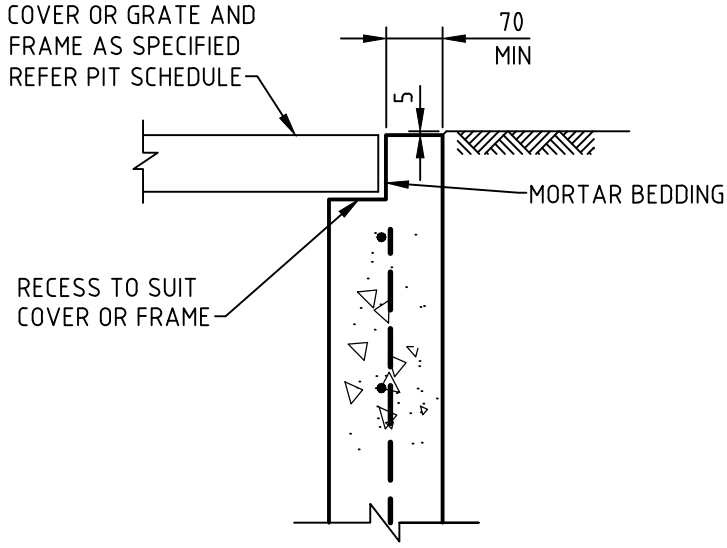
STORMWATER PIT
SETOUT POINTS



DETAIL "C"
SCALE 1:10



DETAIL "D"
SCALE 1:10



DETAIL "E"
SCALE 1:10

B	REVISED ARCHITECTURAL LAYOUT	13-10-17
A	ISSUED FOR APPROVAL	18-04-17
Issue	Description	Date

Bar Scales

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Scales	AS SHOWN	Drawn	TH	Project	LOT 124 ON DP1194052 MARSDEN PARK INDUSTRIAL PRECINCT
		Designed	TH		
Grid	MGA	Checked	AT		
Height Datum	AHD	Approved			
				Title	CIVIL DETAILS SHEET 2

Civil Engineers and Project Managers		
at&I		
Suite 702, 154 Pacific Hwy St Leonards NSW 2065 ABN 96 130 882 405 Tel: 02 9439 1777 Fax: 02 9460 8413 www.atl.net.au info@atl.net.au		
Status	FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION	A1
Drawing No.	Project No.	Issue
DAC401	17-3078	B