

Notice of Modification

Section 75W of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning under delegation executed on 14 September 2011, we, the Planning Assessment Commission of NSW (the Commission) hereby approve the modification of the Project Approval referred to in Schedule 1, subject to the conditions outlined in Schedule 2.

Member of the Commission

Sydney

2016

SCHEDULE 1

The project approval (06_0139) granted by the Minister for Planning for the Eastern Creek Waste Project on 22 November 2009.

SCHEDULE 2

1. In the definitions, delete the definitions for Department, Director-General and Minister, and insert the following definitions in alphabetical order:

| | |
|------------|---|
| Department | Department of Planning and Environment |
| Minister | Minister for Planning |
| Secretary | Secretary of the Department, or nominee |

2. Delete all occurrences of the word "Director-General" and replace with the word "Secretary".
3. In condition 2 of Schedule 2:
 - a. delete the word "generally";
 - b. immediately after the words "Appendix 1" insert the words "and Appendix 6"; and
 - c. delete sub-clause h) and insert instead:
 - h) Modification Application MP 06_0139 Mod 5 and supporting documents titled Section 75W Report, Modification 5, dated 18 March 2015, prepared by Urbis Pty Ltd; Response to Submissions, dated 19 May 2015, prepared by Urbis Pty Ltd; and Spoil Management Plan, dated September 2015, prepared by Genesis Xero Waste.
4. Insert the following condition immediately after condition 25 of Schedule 3:
 - 25a. The Proponent shall prepare an Interim Stormwater Management Plan for the pre-sort enclosure, to the satisfaction of the Secretary. The plan must:
 - a) be prepared in consultation with Council;
 - b) include details and specifications for the detention basins in Catchment G (as shown in Proposed Future Stormwater Management Plan, Drawing No. SKC077, Issue P6, dated 26 October 2015; and letter from Genesis Xero Waste to Blacktown City Council, dated 4 November 2015); and
 - c) satisfy the requirements of Council's *Engineering Guide for Development (2005)* and *Blacktown Development Control Plan 2015*.

- 25b. The Proponent shall construct the pre-sort enclosure in accordance with the Interim Stormwater Management Plan approved by the Secretary (as revised and approved by the Secretary from time-to-time) unless otherwise agreed by the Secretary.
- 25c. Prior to the commencement of construction of the pre-sort enclosure, the Proponent shall provide a temporary washdown facility for construction concrete trucks, which is to be located and constructed to prevent concrete wash from entering the Ropes Creek catchment.
5. Insert the following condition immediately after condition 28 of Schedule 3:

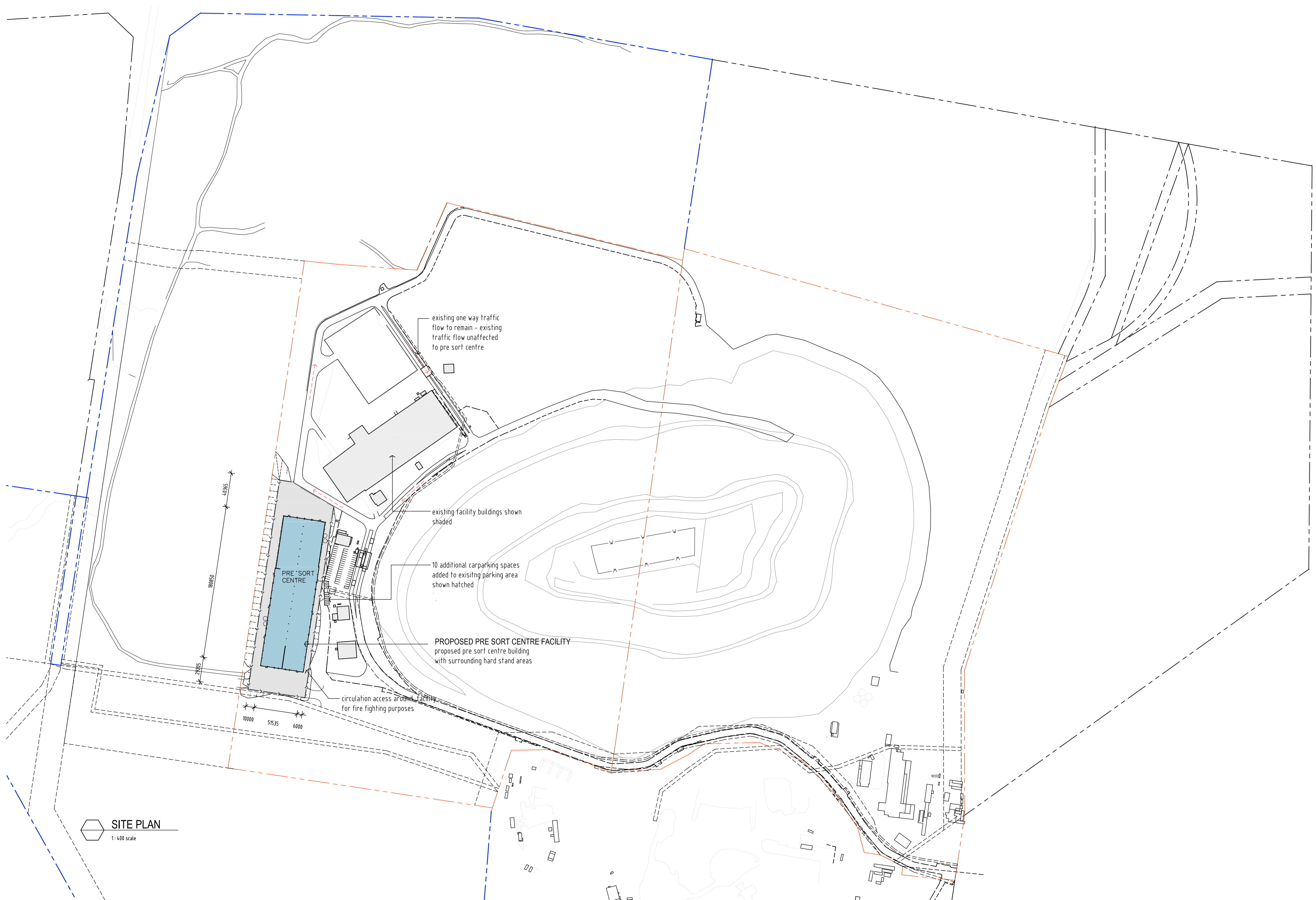
Spoil Management

- 28a. The Proponent shall carry out bulk earthworks approved by Modification Application MP 06_0139 Mod 5 in accordance with the Spoil Management Plan Reference SMP 010915 dated September 2015 prepared by Genesis Xero Waste (subject to any revisions to the Spoil Management Plan that may be approved by the Secretary from time to time).
6. In condition 38 of Schedule 3, delete Table 4 and the Notes and replace with the following:

Table 4: Noise Impact Assessment Criteria

| Location | Day LA_{eq}(15 minute) dB(A) | Evening LA_{eq}(15 minute) dB(A) | Morning Shoulder LA_{eq}(15 minute) dB(A) |
|-----------------|---|---|--|
| Any receiver | 37 | 36 | 36 |

7. Insert the following condition immediately after condition 38 of Schedule 3:
- 38a. Noise generated by the project is to be measured in accordance with the relevant requirements and exemptions (including certain meteorological conditions) of the latest version of the *NSW Industrial Noise Policy*.
8. Insert the following condition immediately after condition 39c. of Schedule 3:
- 39d. Prior to the commencement of earthworks for the pre-sort enclosure, the Proponent shall install a temporary, non-earthen noise barrier on top of the quarry spoil pile which is sufficient in height to shield engine, excavation and truck loading noise associated with excavating the spoil pile. The barrier shall remain in place until the spoil pile provides sufficient noise shielding to the west and it shall be removed prior to the issue of an Occupation Certificate for the pre-sort enclosure. The barrier must not be comprised of shipping containers.
9. Insert the following condition immediately after condition 47 of Schedule 3:
- 47a. Prior to the issue of an Occupation Certificate for the pre-sort enclosure, the Proponent shall construct an additional 10 parking spaces for employees and visitors to the pre-sort enclosure with at least 2 of the spaces provided for disabled drivers, clearly marked and signposted.
10. Insert the following condition after condition 4 of Schedule 5:
- 4b. Within 3 months of any modification to this approval, the Proponent shall review, and if necessary, revise the strategies, plans, and programs required under this approval to the satisfaction of the Secretary.
11. Insert the following after Appendix 5:
- Appendix 6 – Site plans and drawings for the pre-sort enclosure and future stormwater plan



SITE PLAN
1:400 scale

DO NOT SCALE OF DRAWING - DIMENSIONS & LEVELS TO BE VERIFIED PRIOR TO COMMENCEMENT OF WORK WITH FIGURED DIMENSIONS IN PREFERENCE TO SCALED DIMENSIONS.
MATERIALS AND WORKMANSHIP TO BE IN STRICT ACCORDANCE WITH ALL RELEVANT S.A.A. STANDARDS, BCA AND LOCAL AUTHORITIES REQUIREMENTS.
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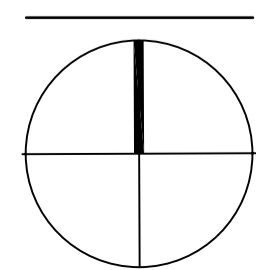
0 20 40 60 80 100 200m
Scale 1:2000

| Issue | Date | Amendment |
|-------|----------|---|
| B | 09/12/14 | issued for authority approval |
| C | 12/12/14 | building location adjusted to suit topography |
| D | 19/02/15 | site boundary to Genesis Xero Waste site highlighted in red |
| E | 19/02/15 | total site boundary highlighted in blue |
| F | 16/03/15 | boundary through pit included in existing Genesis Xero Waste recycling site |
| G | 18/05/15 | 10 carspaces added and additional notation for fire truck access |

Notes

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Nominated Architect - David McDonald NSW ARB No. 7997



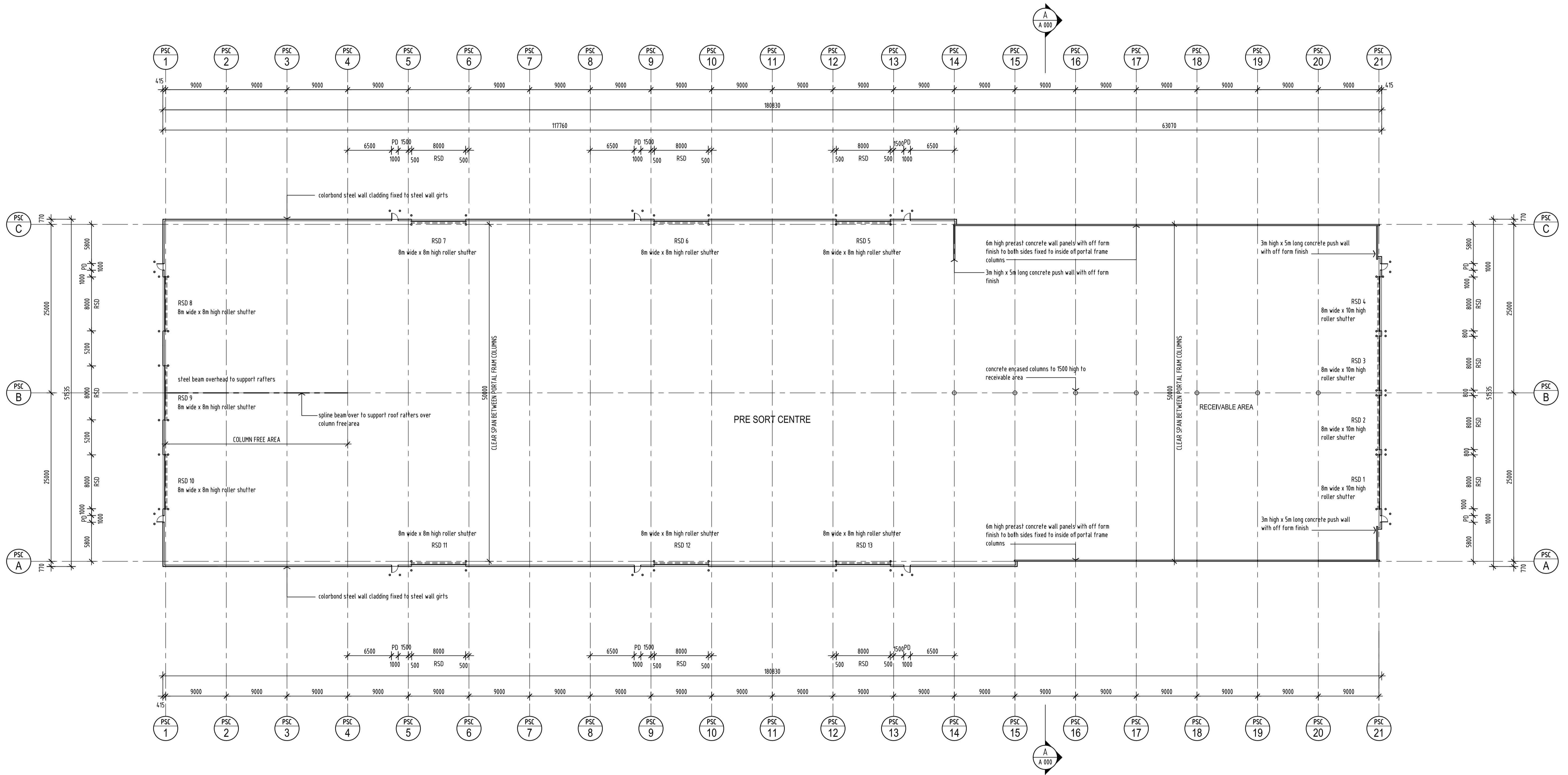
Project
PRE SORT CENTRE BUILDING
HONEYCOMB DRIVE, EASTERN CREEK, NSW

Client
GENESIS XERO WASTE

Drawing
PRE SORT CENTRE SITE PLAN

Drawn: AA
Date: October 2014
Scale: 1:2000 @ A1

Project No: 141002
Drawing No: DA / A 101
Issue: G



PRE SORT CENTRE FLOOR PLAN
1:300 scale

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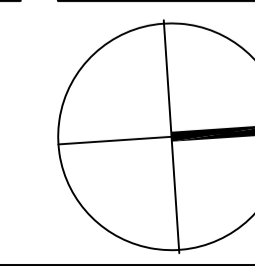
0 5 10 15 30m
Scale 1:300

Issue: A
Date: 31/10/14
Amendment: issued for authority approval

Notes:

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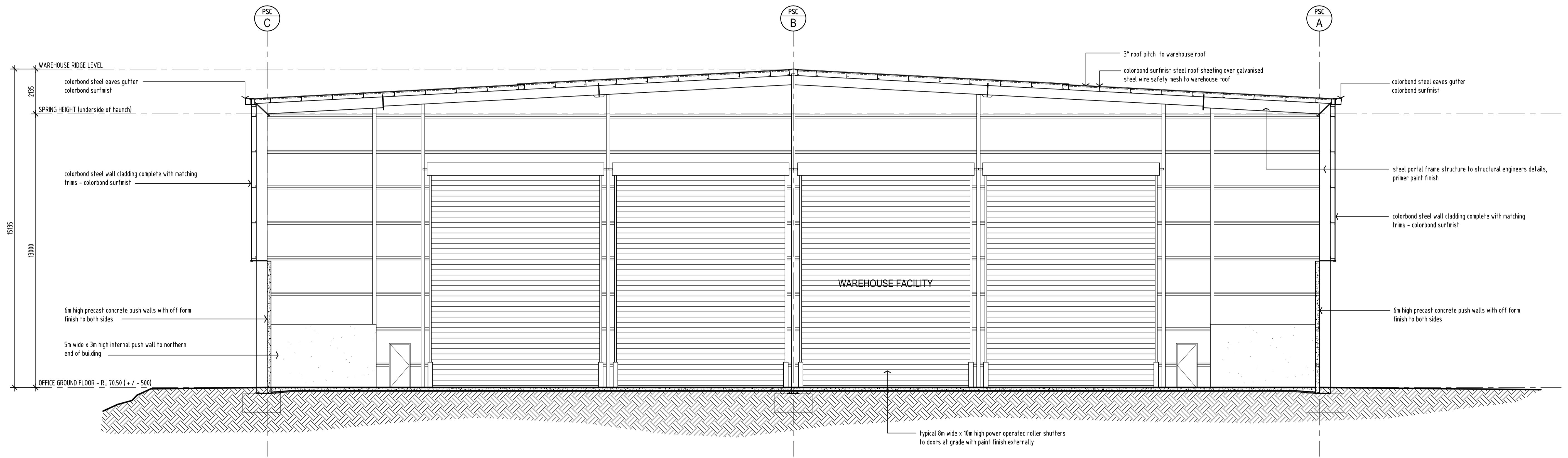
Project:
PRE SORT CENTRE BUILDING
HONEYCOMB DRIVE, EASTERN CREEK, NSW

Client:
GENESIS XERO WASTE

Drawing:
PRE SORT CENTRE FLOOR PLAN

Drawn: AA
Date: October 2014
Scale: 1:300 @ A1

Project No: 141002
Drawing No: DA - A 201
Issue: A



○ TYPICAL CROSS SECTION
1:100 scale

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0 1 2 3 4 5 10m
Scale 1:100

Issue: A
Date: 31/10/16
Amendment: issued for authority approval

Notes:



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Project:
PRE SORT CENTRE BUILDING
HONEYCOMB DRIVE, EASTERN CREEK, NSW
Client:
GENESIS XERO WASTE

Drawing:
TYPICAL CROSS SECTION
Drawn: AA
Date: October 2014
Scale: 1:100 @ A3
Project No: 141002
Drawing No: DA - A 401
Issue: A



EXISTING RECYCLING FACILITY
 PROPOSED PRE-SORT CENTRE BUILDING



PROPOSED PRE-SORT CENTRE BUILDING
 EXISTING RECYCLING FACILITY



EXISTING RECYCLING FACILITY
 PROPOSED PRE-SORT CENTRE BUILDING



EXISTING RECYCLING FACILITY
 PROPOSED PRE-SORT CENTRE BUILDING

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 Scale 1: 2000

| Issue | Date | Amendment |
|-------|----------|----------------------------------|
| A | 09/12/14 | issued for authority approval |
| B | 12/12/14 | re-issued for authority approval |

Notes



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Project
PRE SORT CENTRE BUILDING
 HONEYCOMB DRIVE, EASTERN CREEK, NSW
 Client
GENESIS XERO WASTE

Drawing
PRE SORT CENTRE PERSPECTIVES
 Drawn: AA
 Date: October 2014
 Scale: -
 Project No: 141002
 Drawing No: DA / A 501
 Issue: B

PROPOSED PRE-SORT CENTRE BUILDING

EXISTING RECYCLING FACILITY



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Scale 1: 2000

| Issue | Date | Amendment |
|-------|----------|-------------------------------|
| A | 12/12/14 | issued for authority approval |

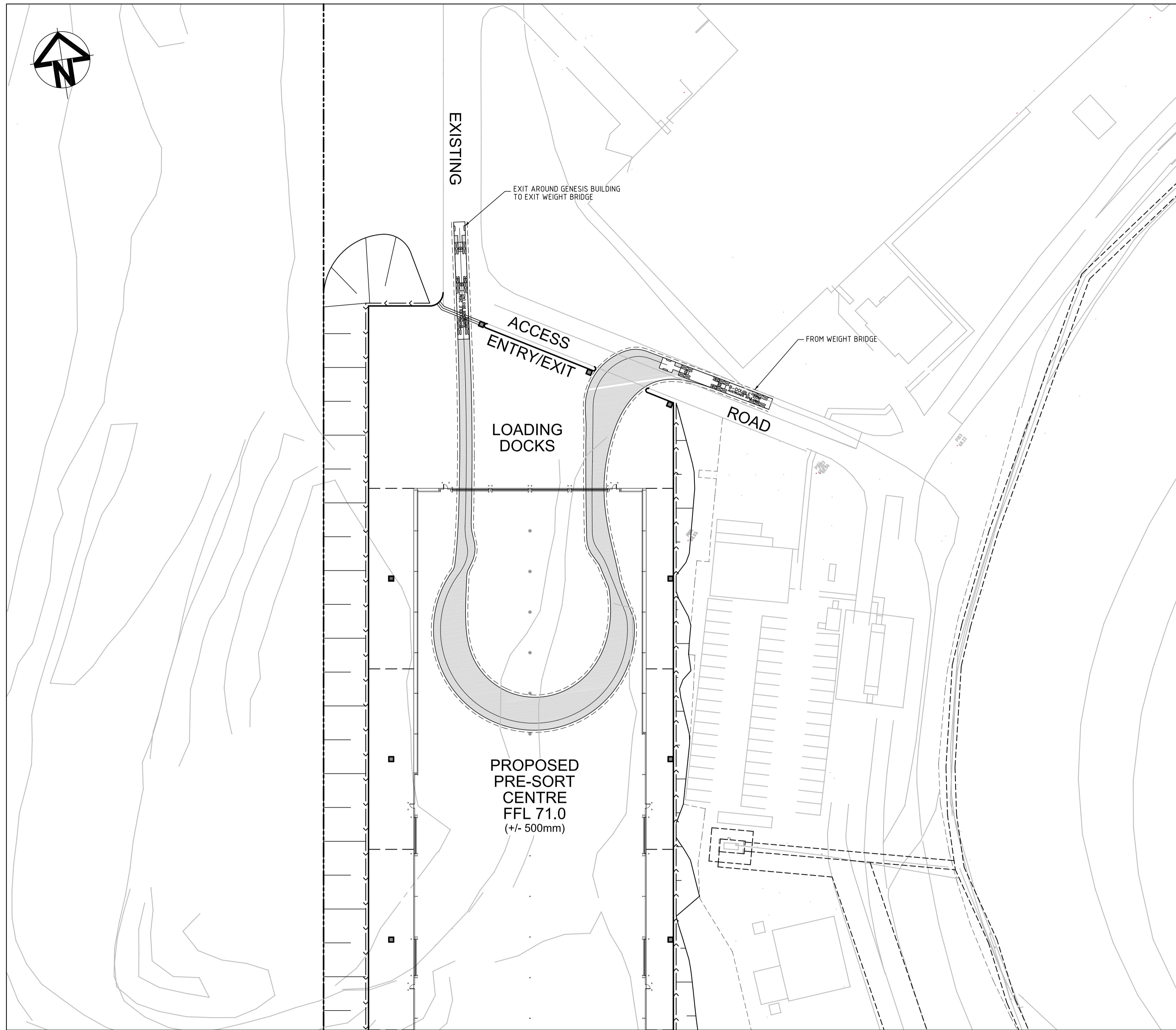
Notes



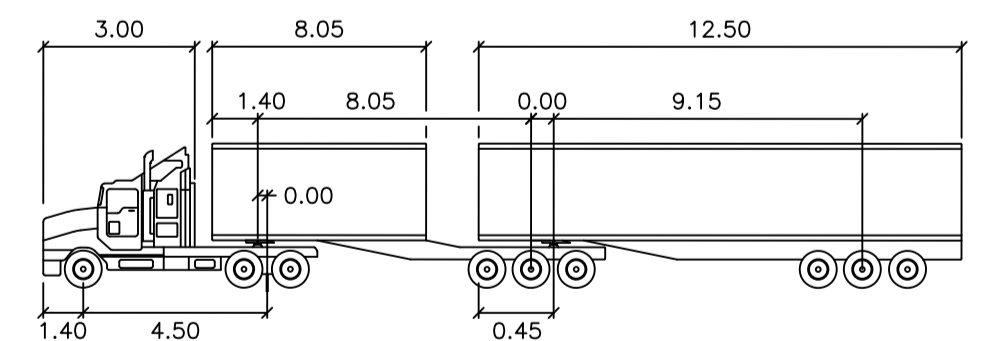
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Project
PRE SORT CENTRE BUILDING
HONEYCOMB DRIVE, EASTERN CREEK, NSW
Client
GENESIS XERO WASTE

Drawing
PRE SORT CENTRE SITE IMAGE
Drawn: AA
Date: October 2014
Scale: -
Project No: 141002
Drawing No: DA / A 601
Issue: A

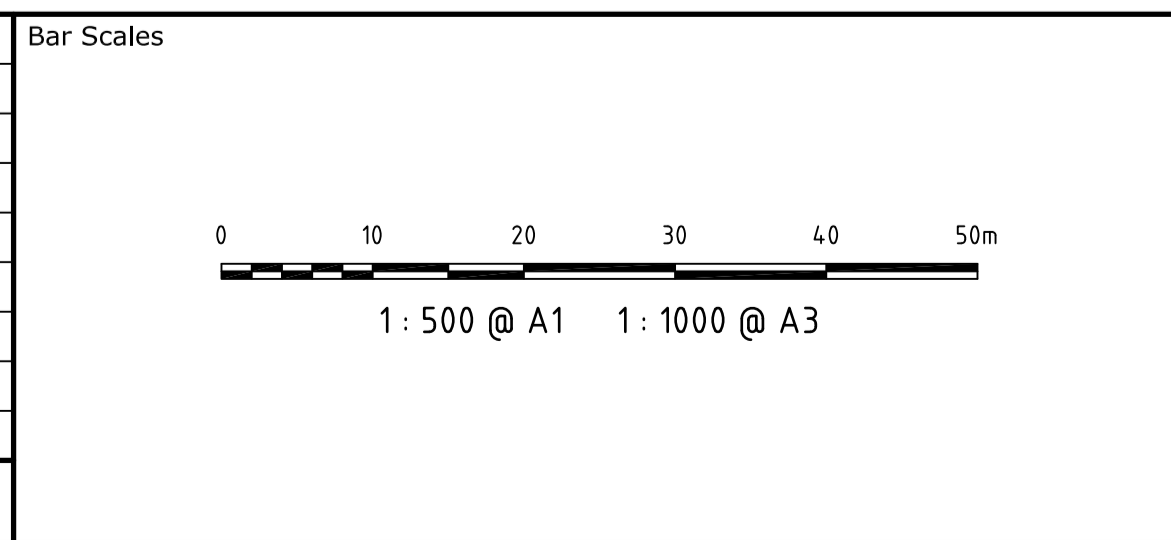


B-DOUBLE TURN PATH
SCALE 1:500



B-DOUBLE 26M meters
 Tractor Width : 2.50
 Trailer Width : 2.50
 Tractor Track : 2.50
 Trailer Track : 2.50
 Lock to Lock Time : 6.0
 Steering Angle : 23.4
 Articulating Angle : 70.0

| Issue | Description | Date |
|-------|------------------------|----------|
| A | ISSUED FOR INFORMATION | 15-05-15 |



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Client
DIAL A DUMP

| | | |
|----------------------------|----------|----|
| Scales 1 : 750 | Drawn | FX |
| | Designed | FX |
| | Checked | AM |
| Grid MGA | Approved | |
| Height Datum AHD | | |

Project
PRE SORT CENTRE EASTERN CREEK

Title
TURN PATH

Civil Engineers and Project Managers

Suite 702, 154 Pacific Hwy
St Leonards NSW 2065
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| | |
|----------------------------------|------------------------------|
| Status FOR INFORMATION | A1 |
| Drawing No. SKC03 | Project No. 14-232 |
| | Issue A |

PRE SORT CENTRE PROPOSED CIVIL WORKS FOR S75W APPROVAL

DRAWING LIST

GENERAL

- DAC001 COVER SHEET AND LOCALITY PLAN
- DAC002 NOTES AND LEGENDS

BULK EARTHWORKS

- DAC003 BULK EARTHWORKS CUT AND FILL PLAN

TYPICAL SECTIONS

- DAC004 TYPICAL SECTIONS SHEET 1
- DAC005 TYPICAL SECTIONS SHEET 2

SITWORKS AND STORMWATER DRAINAGE PLAN

- DAC010 GENERAL ARRANGEMENT PLAN
- DAC011 SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
- DAC012 SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
- DAC013 SITWORKS AND STORMWATER DRAINAGE PLAN SHEET 3

PAVEMENT PLANS

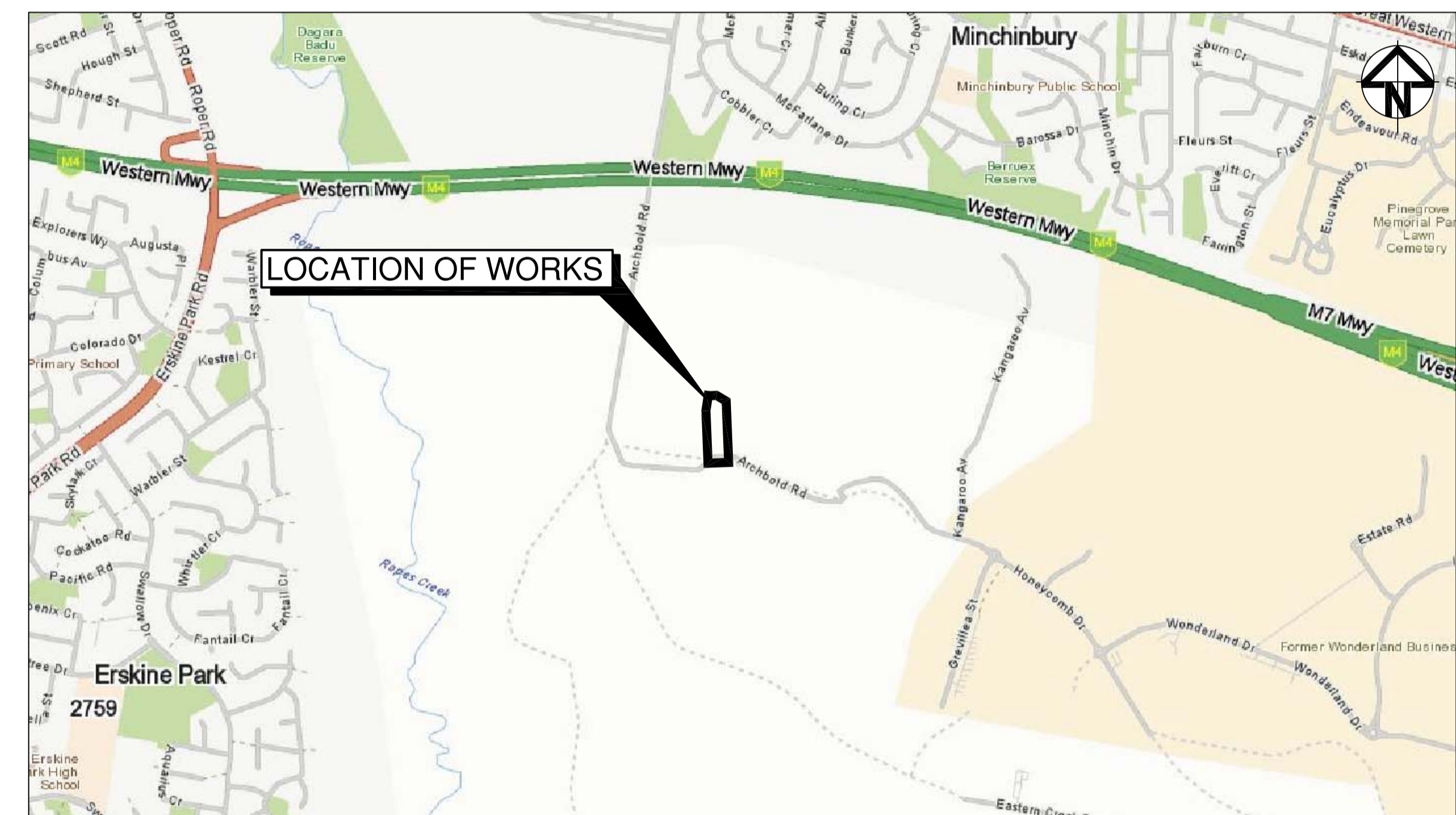
- DAC020 PAVEMENT PLAN

EROSION AND SEDIMENTATION CONTROL

- DAC021 EROSION AND SEDIMENTATION CONTROL PLAN


SITWORKS DETAILS

- DAC030 SITWORKS DETAILS
- DAC031 DRAINAGE DETAILS



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 DIAL A DUMP | Scales | | Drawn | | Project PRE SORT CENTRE EASTERN CREEK | Civil Engineers and Project Managers | | |
| | | | | NTS | FX | Designed | | |  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 | | |
| | | | | Grid MGA | AM | Checked | | | | | |
| | | | | Height Datum AHD | | Approved | | | | | |
| B ISSUED FOR APPROVAL 03-03-15 A ISSUED FOR APPROVAL 15-12-14 | | | | | | | | Title COVER SHEET AND LOCALITY PLAN | | Status FOR APPROVAL | |
| Issue | Description | Date | | | | | | Drawing No. DAC001 | | Project No. 14-232 | |
| | | | | | | | | Issue B | | | |

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY LAND PARTNERS, 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.

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.

STORMWATER DRAINAGE NOTES

- STORMWATER DESIGN CRITERIA:
 - (A) AVERAGE RECURRENCE INTERVAL:
 - 100 YEARS- ROOFED AREAS TO SURCHARGE PIT
 - 120 YEARS- EXTERNAL PAVEMENTS
 - (B) RAINFALL INTENSITIES:
 - TIME OF CONCENTRATION- 5 MINUTES
 - 100 YEARS= 218 mm/hr
 - 120 YEARS= 167 mm/hr
 - (C) RUNOFF COEFFICIENTS:
 - ROOF AREAS: $C_{100} = 10$
 - EXTERNAL PAVEMENTS: $C_{20} = 10$
- PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
- PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
- EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED.
- 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.
- 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)
- 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).
- PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
- ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
- WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
- GRATES AND COVERS SHALL CONFORM TO AS 3996.
- ALL INTERNAL PIT DIMENSIONS TO CONFORM TO AS3500.3 TABLE 8.2.
- AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
- 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.

SITWORKS NOTES

- ORIGIN OF LEVELS-- REFER SURVEY NOTES.
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- 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)
- PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
- ASPHALTIC CONCRETE SHALL CONFORM TO RMS. SPECIFICATION R116.
- 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 50m² OF BASECOURSE MATERIAL PLACED.
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS. FORM 3051 AND 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.
- 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.
- 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.
- 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.

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
 - a. LOCAL AUTHORITY REQUIREMENTS
 - b. EPA REQUIREMENTS
 - c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN 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:
 - (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.

- 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.

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

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, WHICH EVER IS THE GREATER
 - (ii) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
 - (iii) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

WORKS LEGEND

EXISTING

- SURFACE LEVEL
- CONTOUR
- FENCE
- TREE
- EXISTING BOUNDARY

PROPOSED

- PROPOSED BOUNDARY
- PROPOSED CONTOUR
- PROPOSED SURFACE LEVEL

- KERB AND GUTTER
- INTEGRAL KERB
- KERB ONLY

- DISH DRAIN
- VEHICLE CROSSING

- PRAM RAMP

- STORMWATER PIT WITH GRATE AND LINE

- uPVC STORMWATER PIPE

- STORMWATER PIT REFERENCE NUMBER

- KERB INLET PIT

- KERB INLET PIT (SAG)

- JUNCTION PIT WITH INFILL

- SURFACE INLET PIT WITH INFILL

- GRATED DRAIN

- HEADWALL

- OPEN SWALE DRAIN

- SAFETY BARRIER

- RETAINING WALL

- BATTER

- BATTER SLOPE

EXISTING SERVICES

- EXISTING GAS
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING ELECTRICAL HIGH VOLTAGE

| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |

| |
|------------|
| Bar Scales |
|------------|

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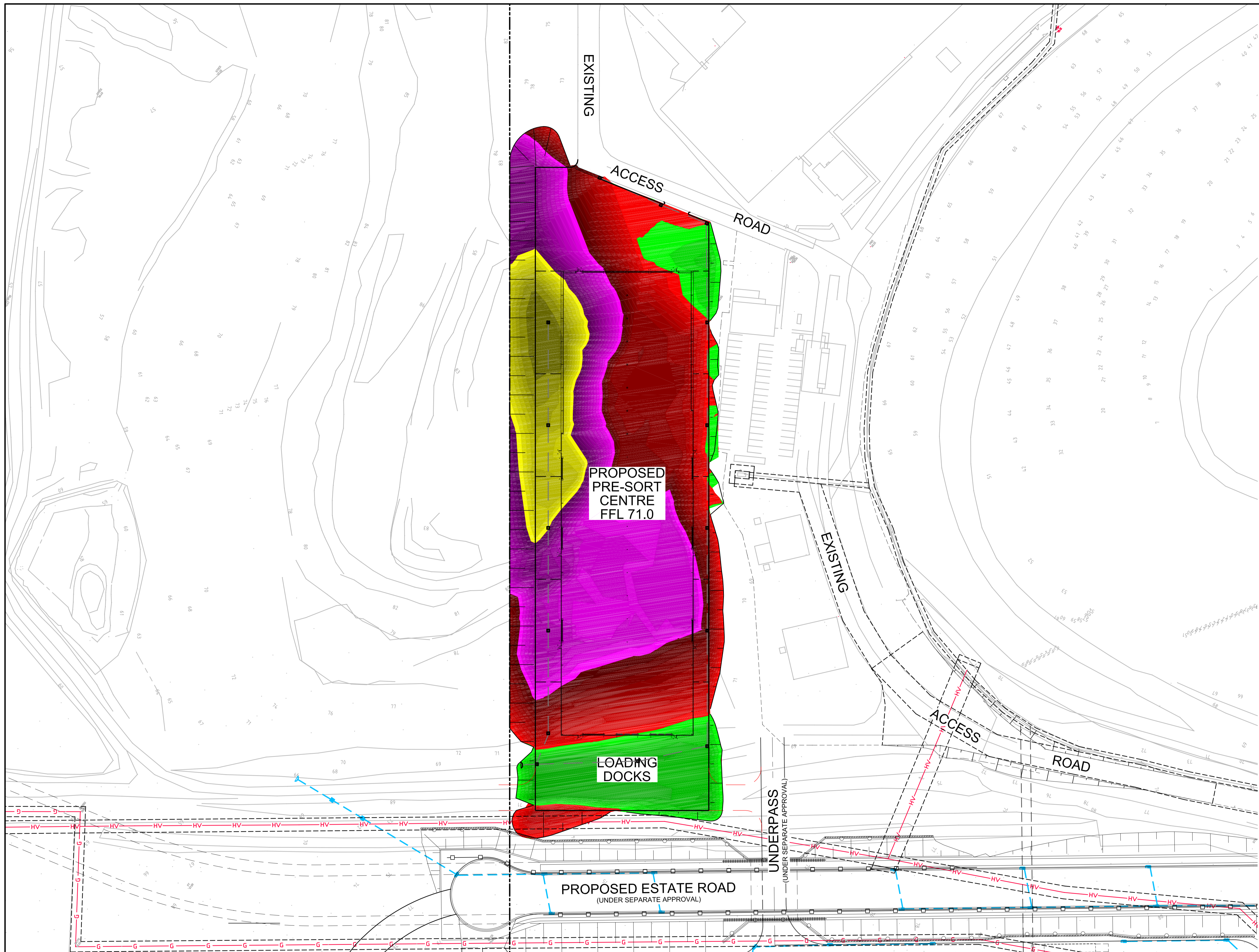
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DIAL A DUMP

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| Scales | NTS | Drawn | FX |
| | | Designed | FX |
| Grid | MGA | Checked | AM |
| Height Datum | AHD | Approved | |

Project
PRE SORT CENTRE EASTERN CREEK

Title
NOTES AND LEGENDS

| | | |
|---|---------------------|-----------|
| 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 | | |
| Status | FOR APPROVAL | A1 |
| Drawing No. | DAC002 | Issue |
| Project No. | 14-232 | B |



| HWE CUT & FILL LEGEND | | | |
|-----------------------|-------------|--------|--------------|
| Lower_value | Upper_value | Colour | |
| -15.5 | to -14.0 | 2 | Dark Green |
| -14.0 | to -14.5 | 2 | Green |
| -14.5 | to -13.0 | 2 | Light Green |
| -13.0 | to -12.5 | 2 | Yellow-Green |
| -12.5 | to -12.0 | 2 | Yellow |
| -12.0 | to -11.5 | 2 | Light Yellow |
| -11.5 | to -11.0 | 2 | Yellow |
| -11.0 | to -10.5 | 2 | Light Yellow |
| -10.5 | to -10.0 | 2 | Yellow |
| -10.0 | to -9.5 | 2 | Light Yellow |
| -9.5 | to -9.0 | 2 | Yellow |
| -9.0 | to -8.5 | 2 | Light Yellow |
| -8.5 | to -8.0 | 2 | Yellow |
| -8.0 | to -7.5 | 2 | Light Yellow |
| -7.5 | to -7.0 | 2 | Yellow |
| -7.0 | to -6.5 | 2 | Light Yellow |
| -6.5 | to -6.0 | 2 | Yellow |
| -6.0 | to -5.5 | 2 | Light Yellow |
| -5.5 | to -5.0 | m | Yellow |
| -5.0 | to -4.5 | m | Light Yellow |
| -4.5 | to -4.0 | m | Yellow |
| -4.0 | to -3.5 | m | Light Yellow |
| -3.5 | to -3.0 | m | Yellow |
| -3.0 | to -2.5 | m | Light Yellow |
| -2.5 | to -2.0 | m | Yellow |
| -2.0 | to -1.5 | m | Light Yellow |
| -1.5 | to -1.0 | m | Yellow |
| -1.0 | to -0.5 | m | Light Yellow |
| -0.5 | to 0 | m | Yellow |
| 0 | to 0.5 | m | Light Yellow |
| 0.5 | to 1.0 | m | Yellow |
| 1.0 | to 1.5 | m | Light Yellow |
| 1.5 | to 2.0 | m | Yellow |
| 2.0 | to 2.5 | m | Light Yellow |

TOTAL CUT/FILL

| | | |
|--------|---------------|-----------------------|
| TOTAL: | CUT | 127,200m ³ |
| | FILL | 3,900m ³ |
| | SURPLUS SPOIL | 123,300m ³ |

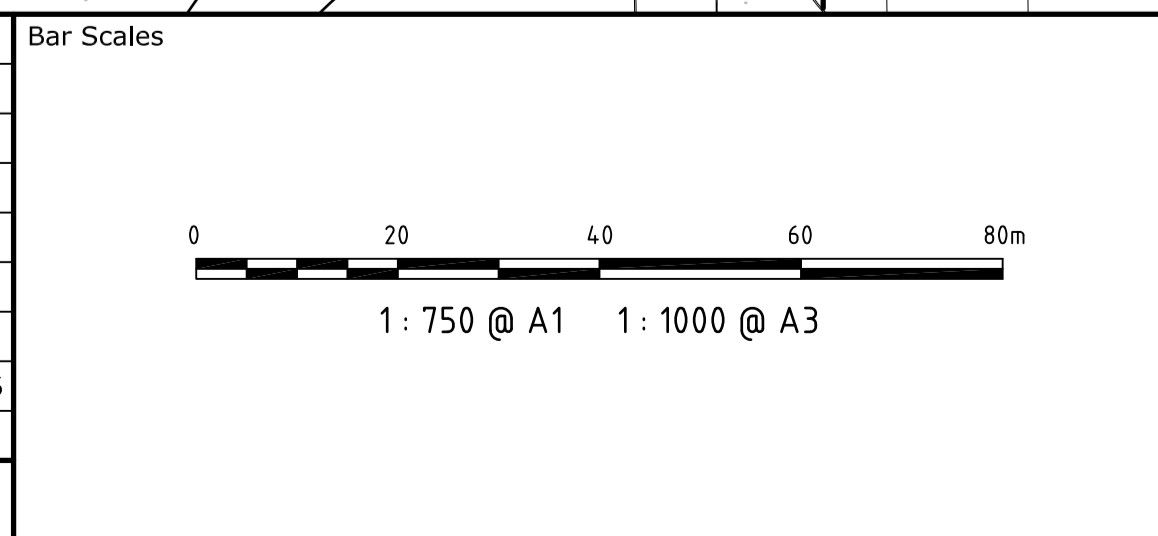
NOTES

THE SURPLUS SPOIL FROM THE ABOVE TABLE IS INTENDED TO BE PLACED AND COMPACTED WITHIN THE FUTURE EFW SITE

EARTHWORKS VOLUMES DENOTED ARE APPROXIMATE ONLY AND HAVE BEEN CALCULATED BETWEEN THE EARTHWORKS SURFACE LEVEL (300mm BELOW FINISHED SURFACE LEVEL) AND THE EXISTING SURFACE LEVEL. THE VOLUMES DO NOT TAKE INTO ACCOUNT THE FOLLOWING --

1. STRIPPING AND STOCKPILING OF EXISTING TOP SOIL
2. BULKING FACTORS OF REMOVED CUT
3. REMOVAL OF EXISTING BUILDING SLABS AND PAVEMENTS
4. REMOVAL AND/OR REMEDIATION OF ANY EXISTING UNCONTROLLED FILL
5. PROPOSED LANDSCAPING
6. STORMWATER AND UTILITIES TRENCHING
7. EXISTING DAMS OR WATER BODIES WHERE BY THE BASE HAS NOT BEEN SURVEYED DUE TO THE PRESENCE OF WATER AT TIME OF SURVEY

| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |



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DIAL A DUMP

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| Grid | MGA | Checked | AM |
| Height Datum | AHD | Approved | |

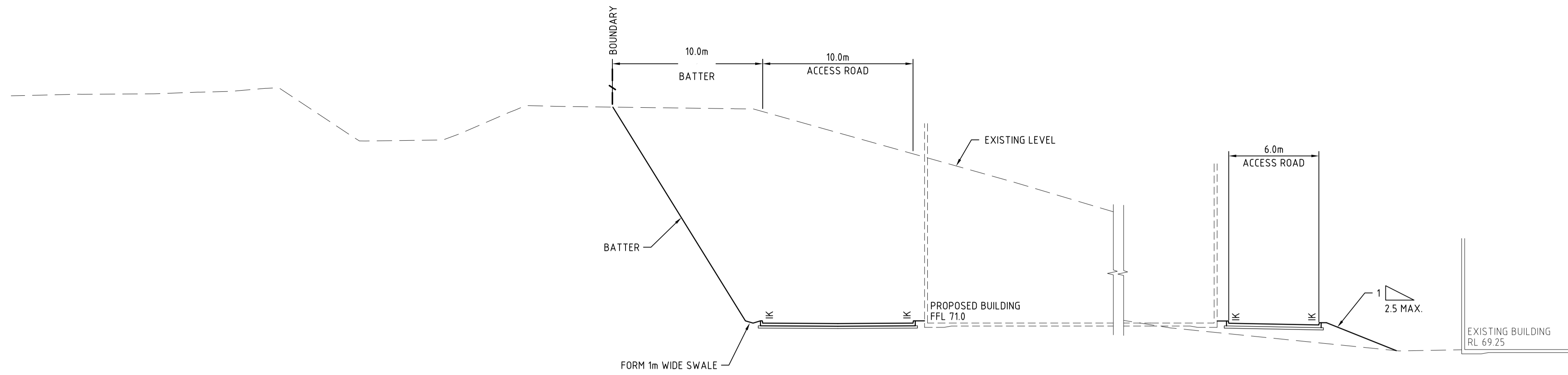
Project
PRE SORT CENTRE EASTERN CREEK

Title
BULK EARTHWORKS CUT AND FILL PLAN

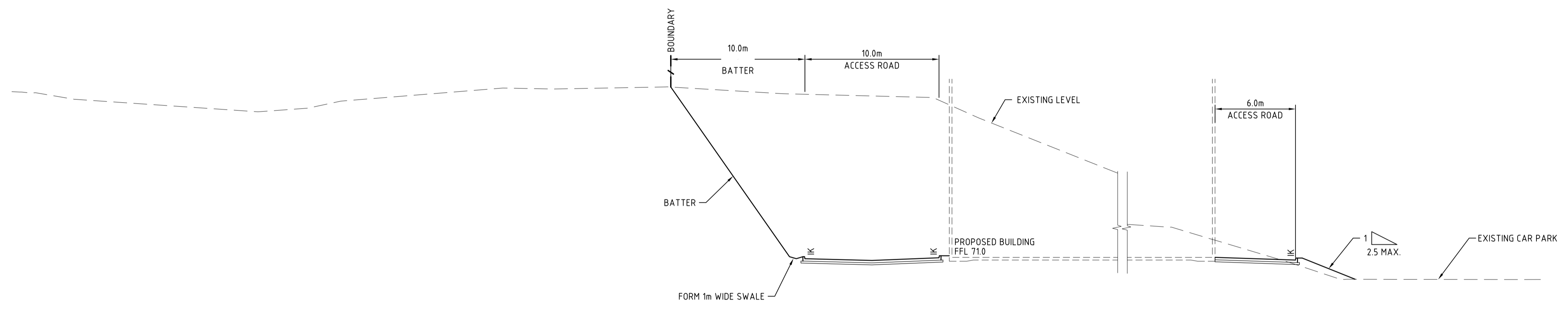
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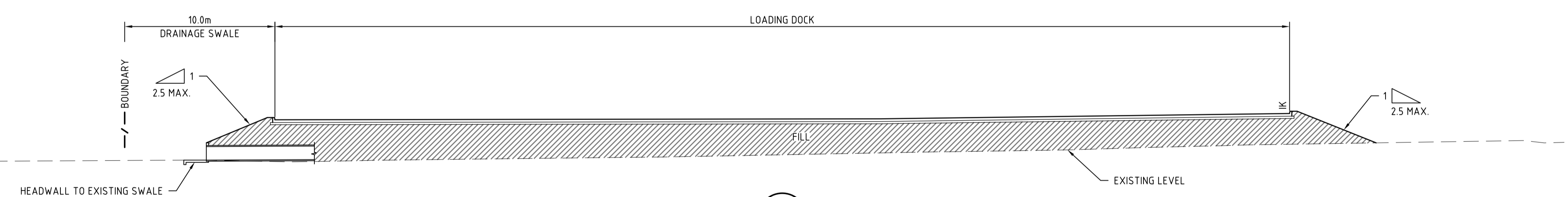
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| Drawing No. | DAC003 | Issue |
| Project No. | 14-232 | B |



SECTION 1
1 : 200 DAC010, DAC011

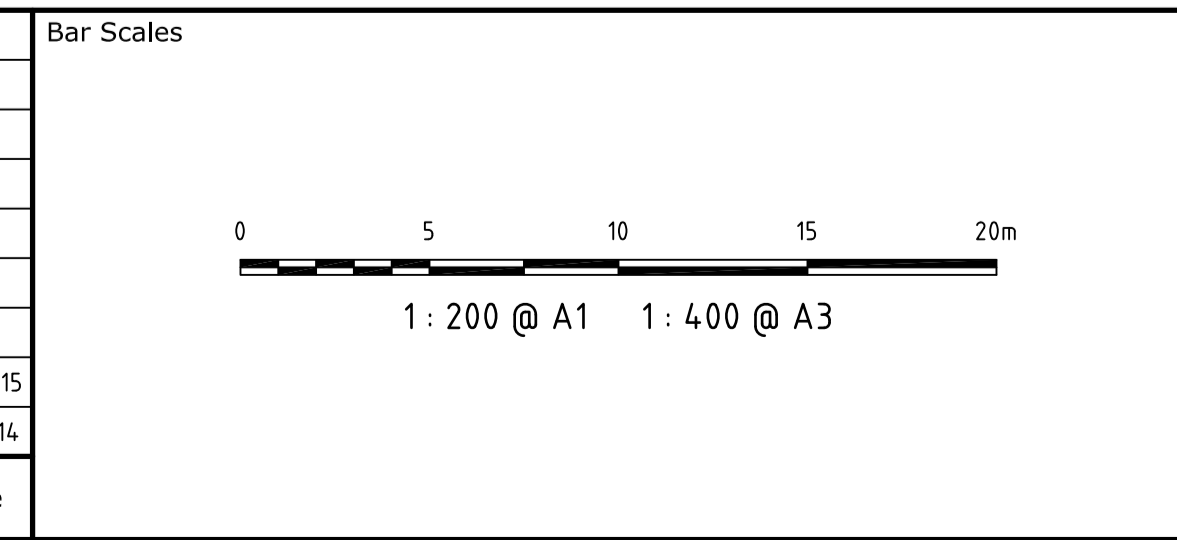


SECTION 2
1 : 200 DAC010, DAC012



SECTION 3
1 : 200 DAC010, DAC013

| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |



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|---------------------|----------|----|
| Scales 1 : 200 | Drawn | FX |
| | Designed | FX |
| | Checked | AM |
| Grid MGA | Approved | |
| Height Datum AHD | | |

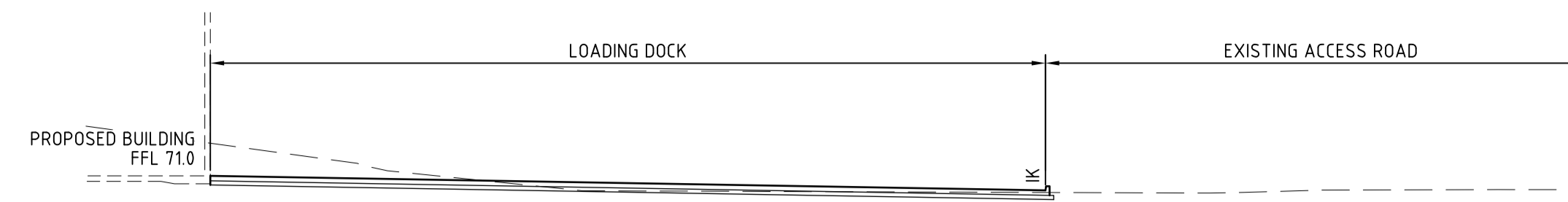
Project
**PRE SORT CENTRE
EASTERN CREEK**

Title
**TYPICAL SECTIONS
SHEET 1**

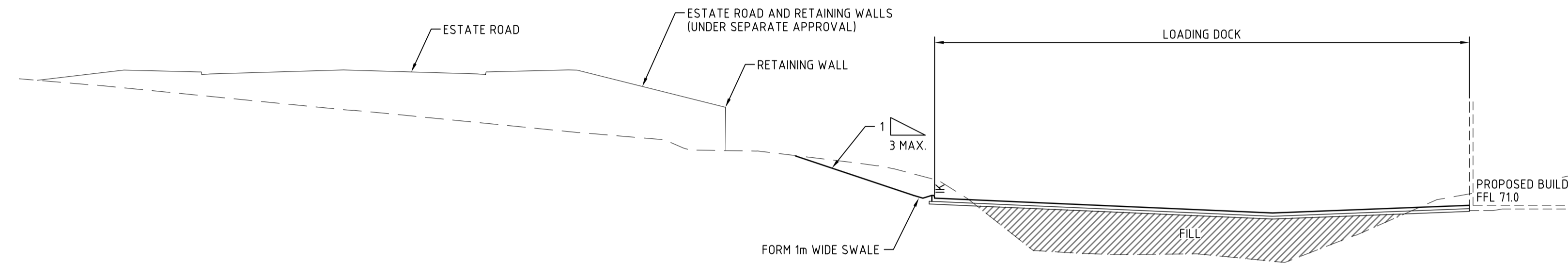
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| Status FOR APPROVAL | A1 |
| Drawing No. DAC004 | Project No. 14-232 |
| | Issue B |

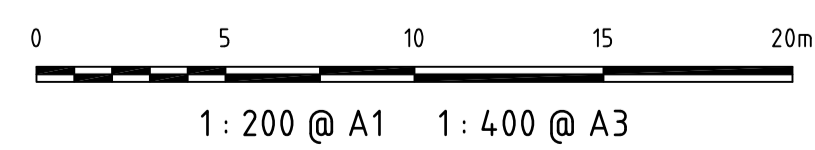


SECTION 4
1 : 200 DAC010, DAC011



SECTION 5
1 : 200 DAC010, DAC013

Bar Scales



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Client

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Scales
1 : 200

Grid MGA

Height Datum AHD

Drawn
FX

Designed
FX

Checked
AM

Approved

Project

PRE SORT CENTRE
EASTERN CREEK

Title

TYPICAL SECTIONS
SHEET 2

Civil Engineers and Project Managers

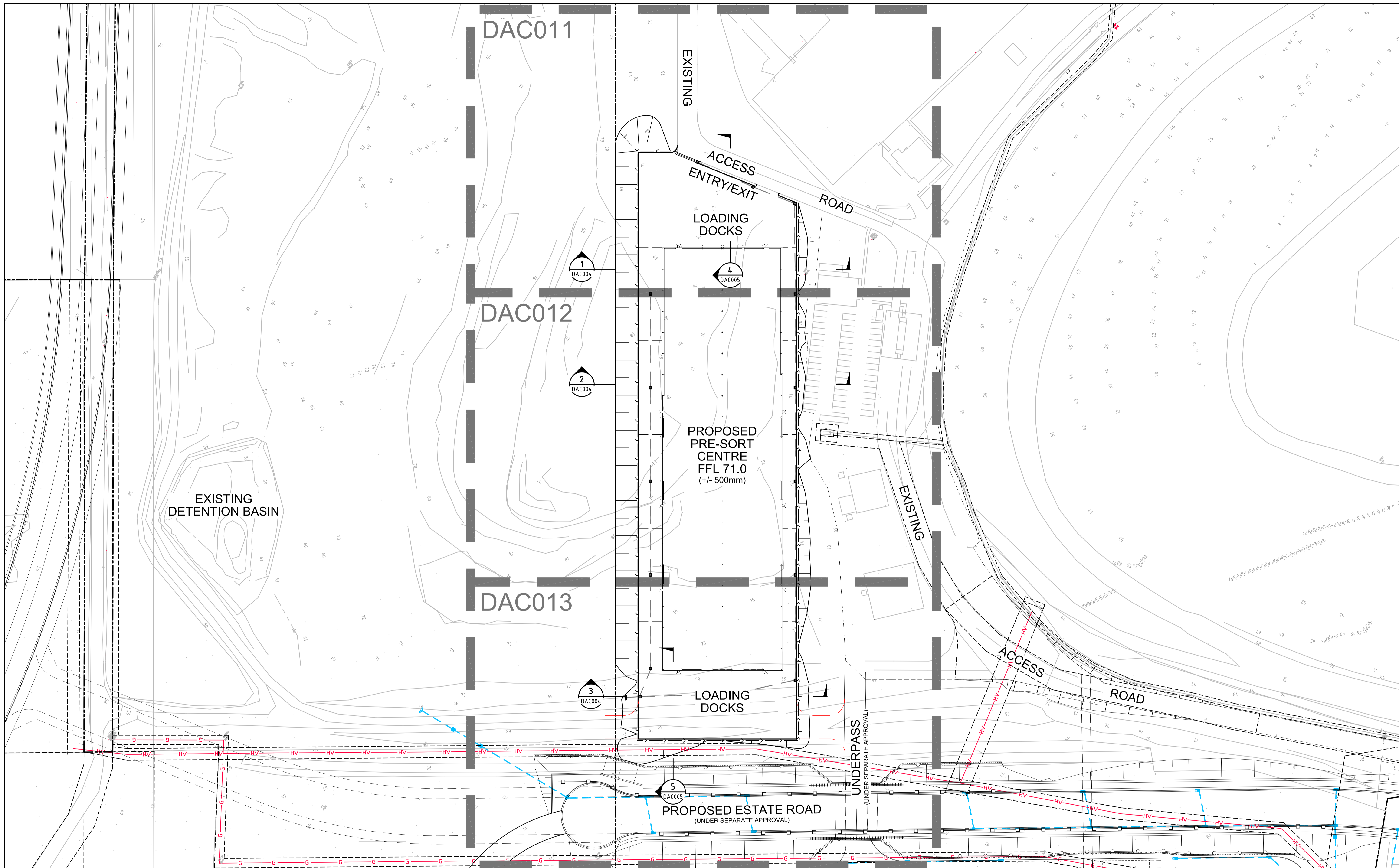


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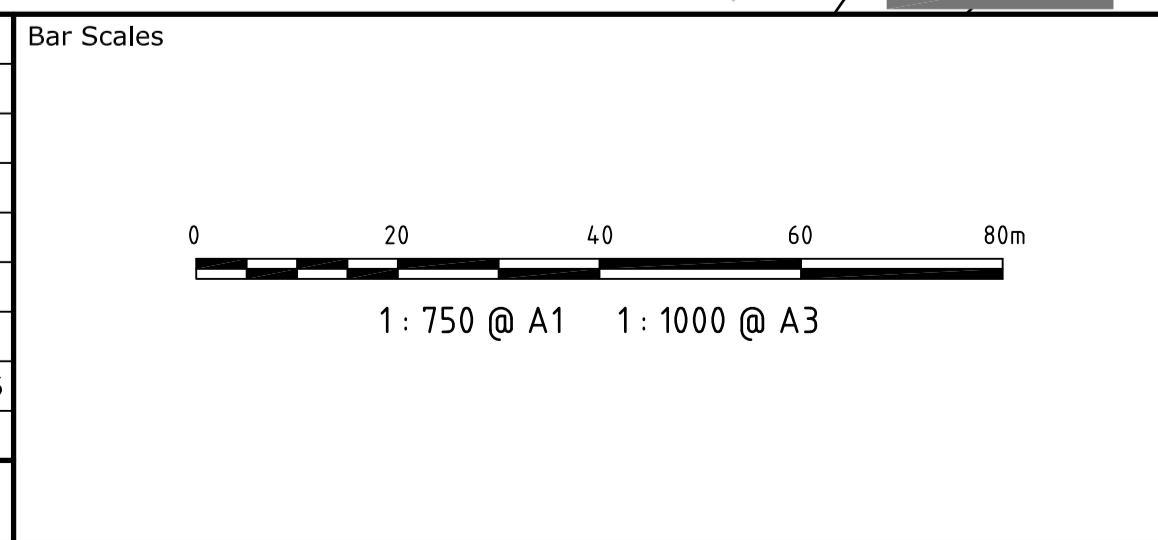
Status
FOR APPROVAL A1

Drawing No. DAC005 Project No. 14-232 Issue B

| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |



| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |



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| Drawn | FX |
| Designed | FX |
| Checked | AM |
| Approved | |

Scales
1 : 750

Grid
MGA

Height Datum
AHD

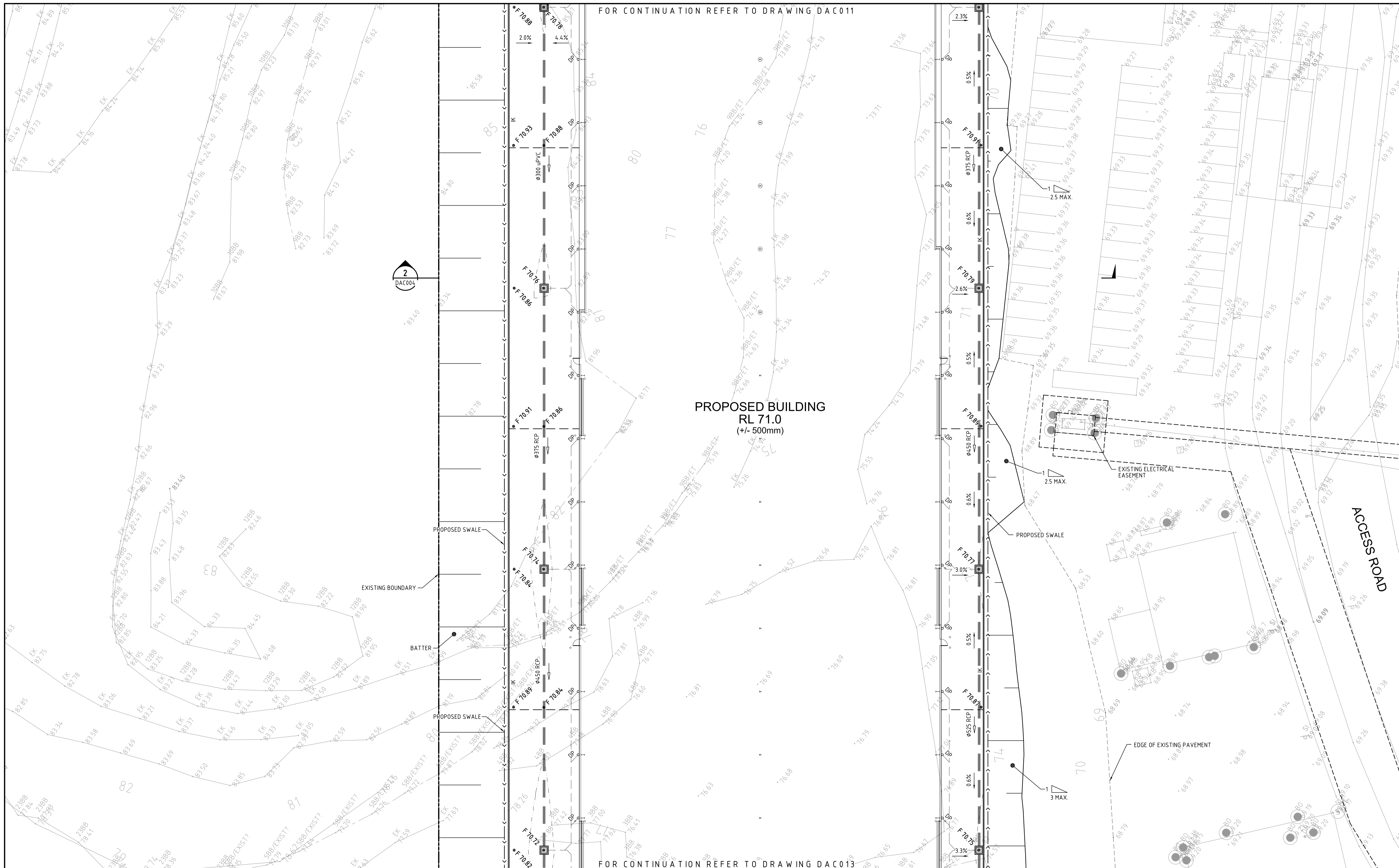
Project
PRE SORT CENTRE EASTERN CREEK

Title
GENERAL ARRANGEMENT PLAN

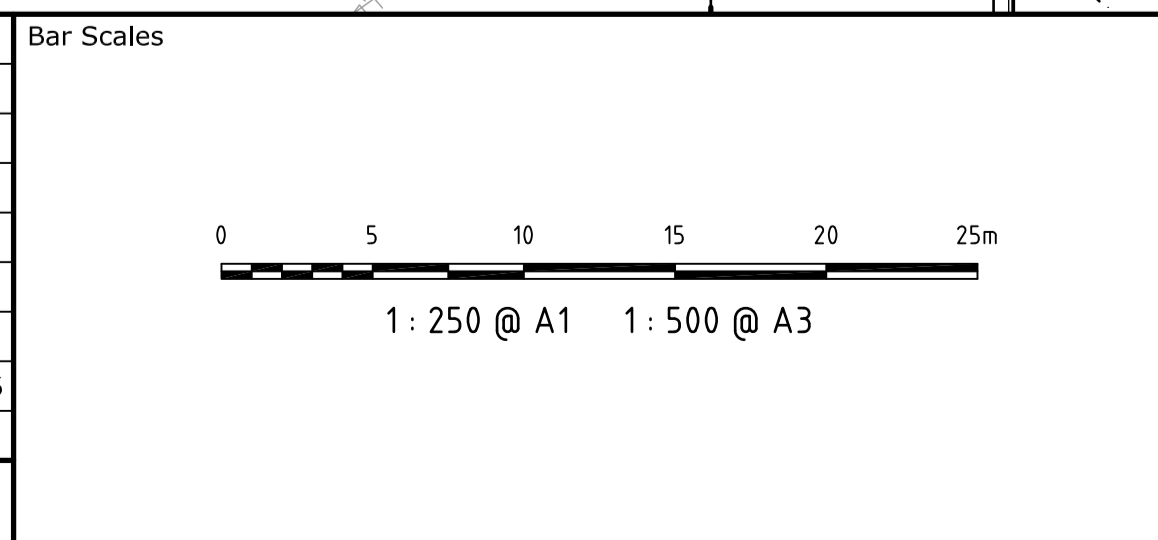
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| Drawing No. | DAC010 | Issue |
| Project No. | 14-232 | B |



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| Scales 1 : 250 | Drawn | FX |
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| | Checked | AM |
| Grid MGA | Approved | |
| Height Datum AHD | | |

Project
PRE SORT CENTRE EASTERN CREEK


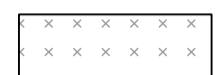

Title
SITWORKS AND STORMWATER DRAINAGE PLAN - SHEET 2

Civil Engineers and Project Managers

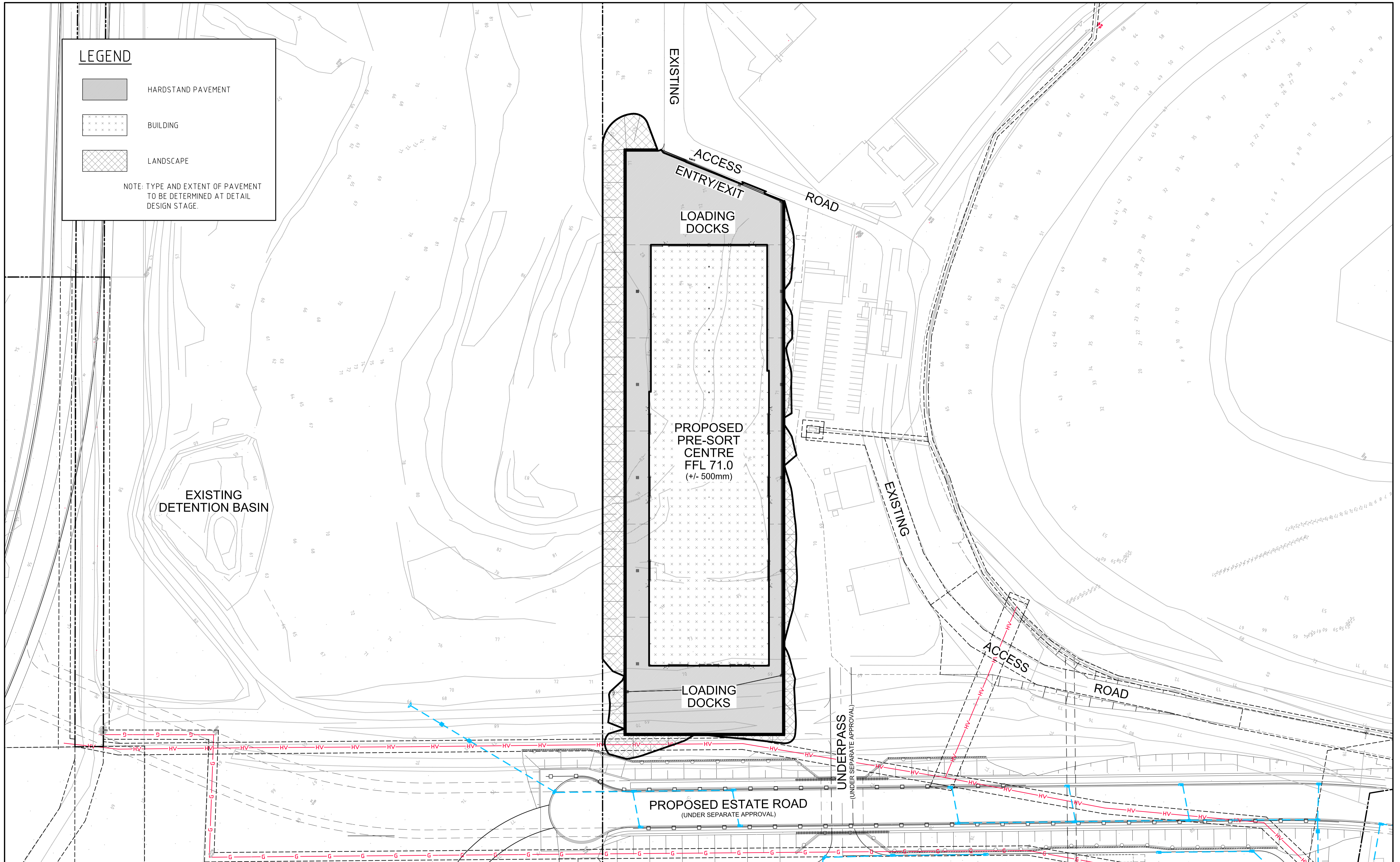
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| Status FOR APPROVAL | A1 |
| Drawing No. DAC012 | Project No. 14-232 |
| | Issue B |

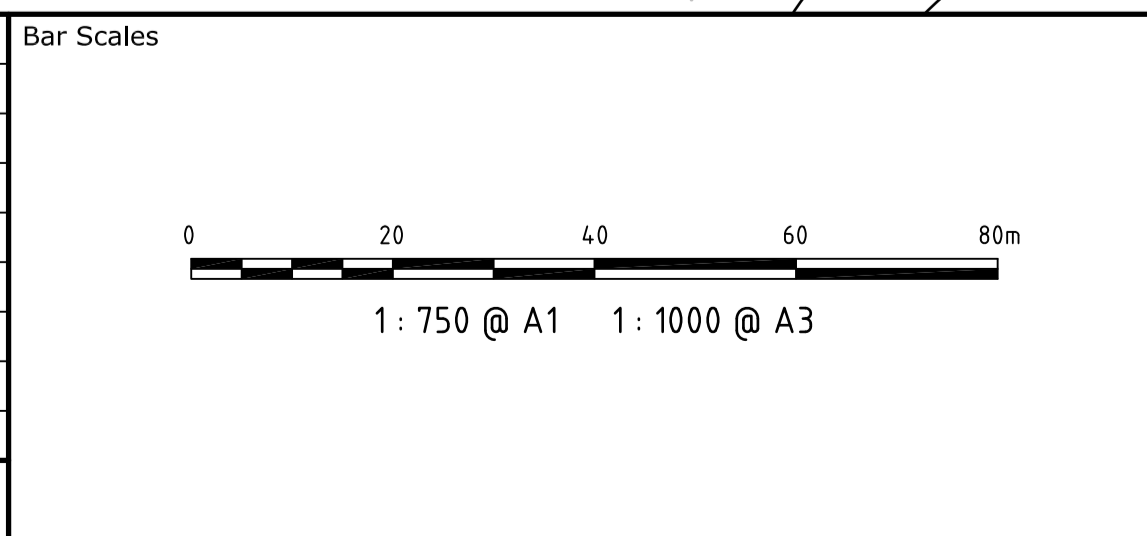
LEGEND

-  HARDSTAND PAVEMENT
-  BUILDING
-  LANDSCAPE

NOTE: TYPE AND EXTENT OF PAVEMENT TO BE DETERMINED AT DETAIL DESIGN STAGE.



| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |



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| Grid | MGA | Checked | AM |
| Height Datum | AHD | Approved | |

Project
PRE SORT CENTRE EASTERN CREEK

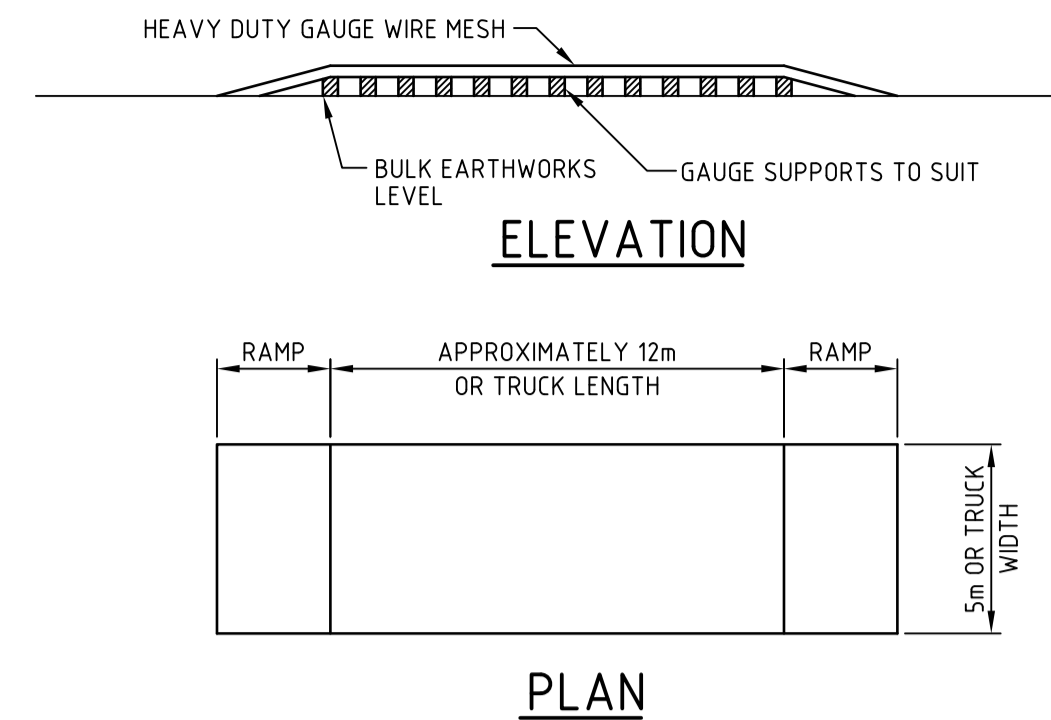
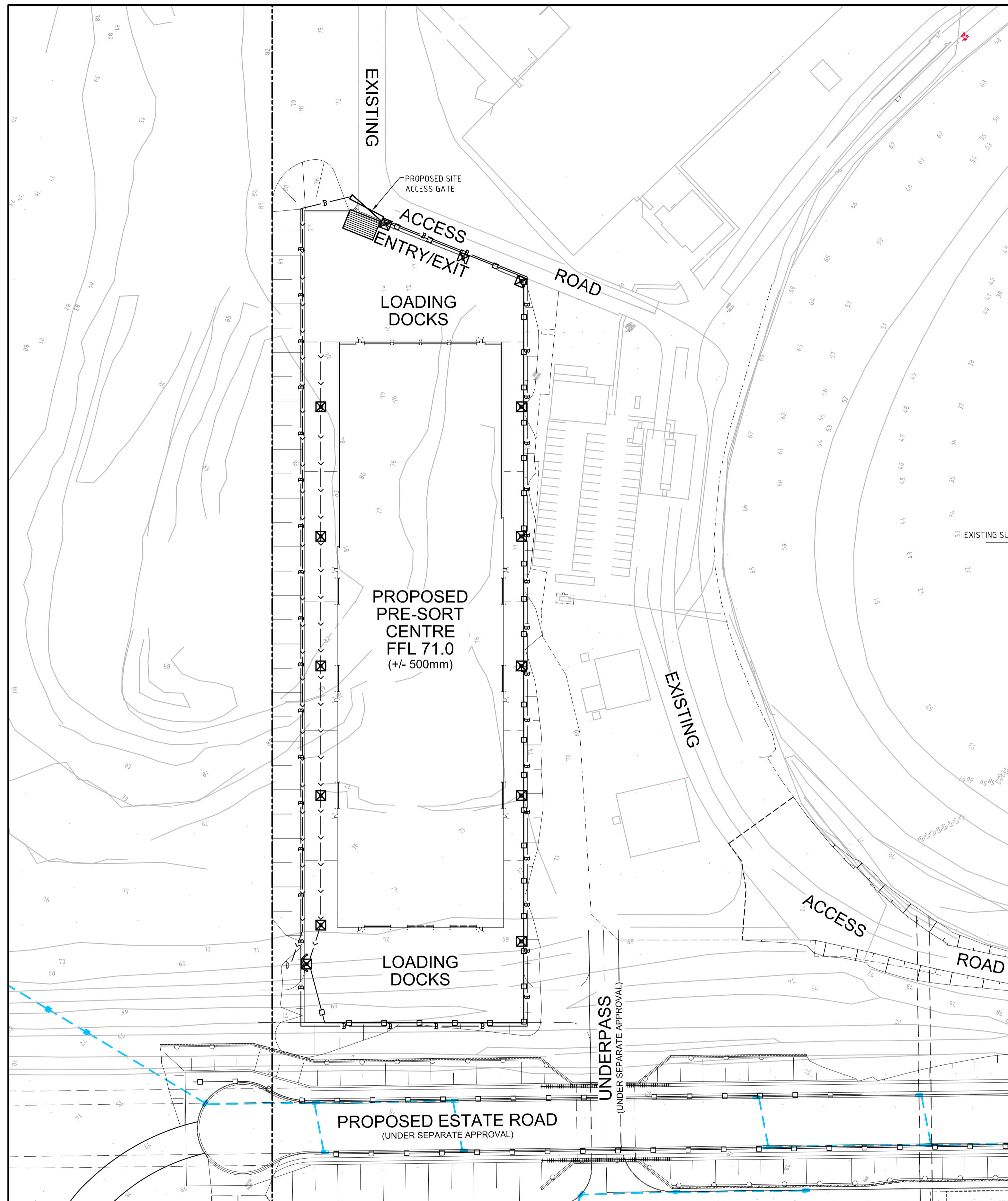
Title
PAVEMENT PLAN

Civil Engineers and Project Managers



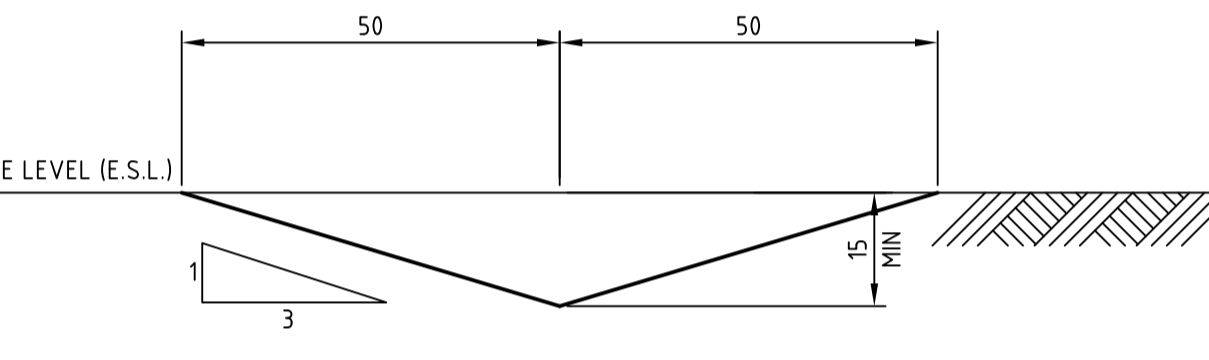
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| Project No. | 14-232 | B |

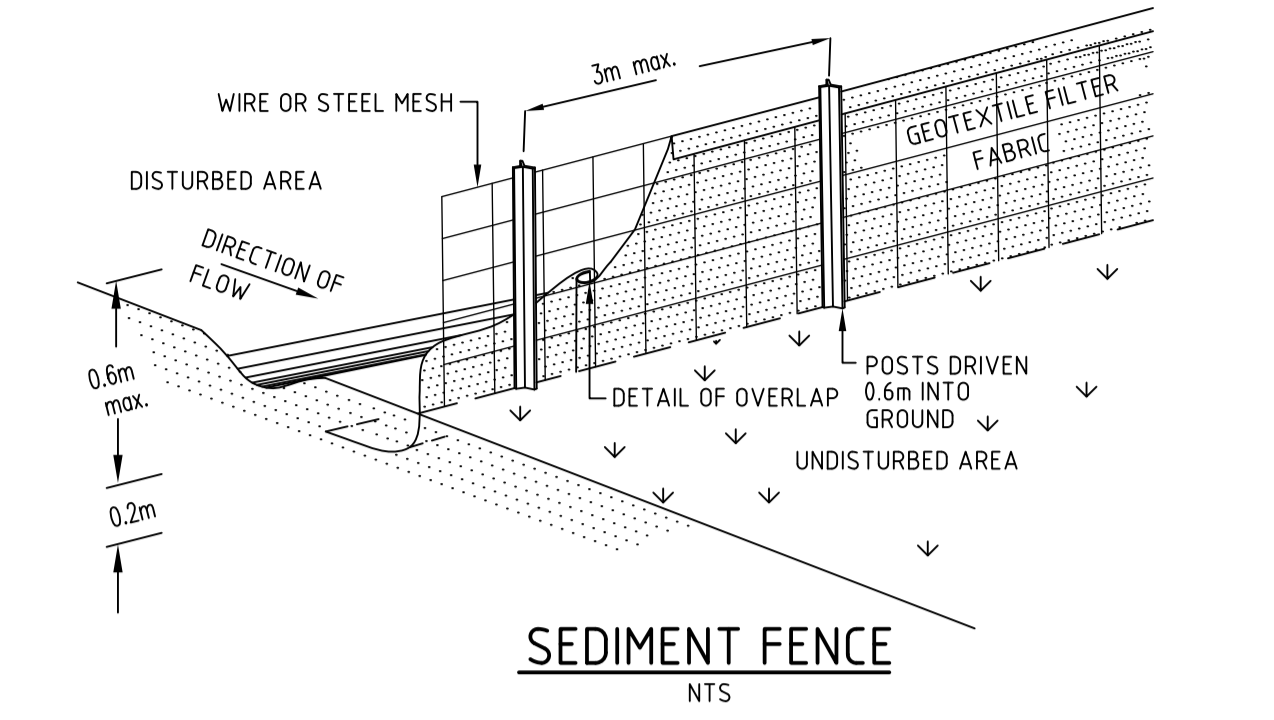


TEMPORARY CONSTRUCTION EXIT (WASH DOWN DETAIL)
SCALE 1:200

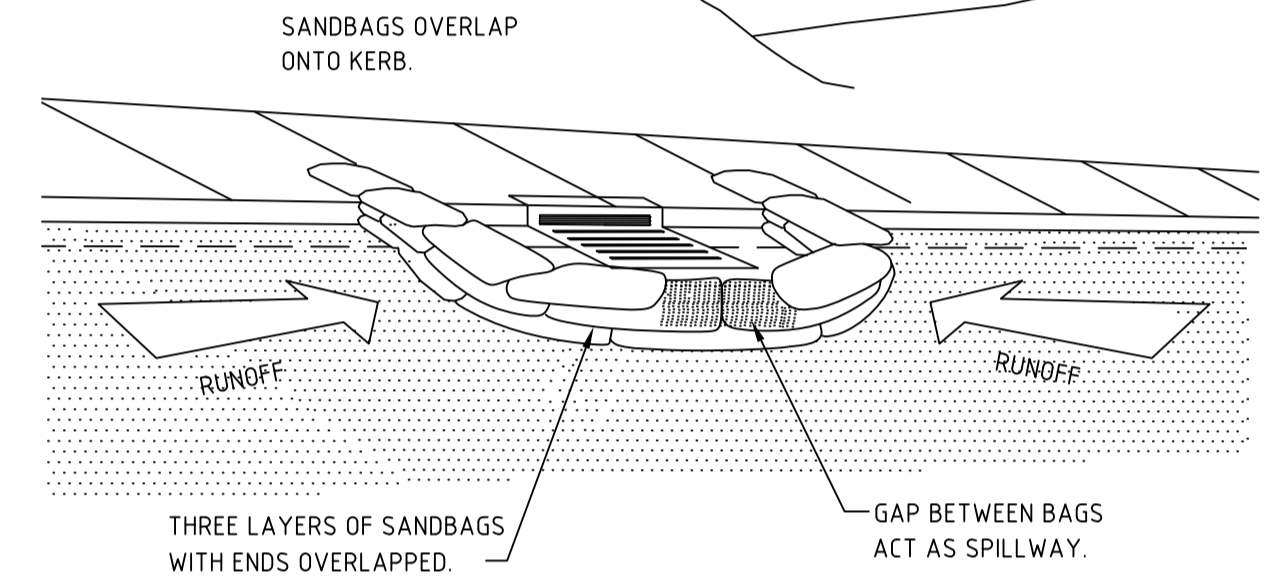
THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE REPAIR AND OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.



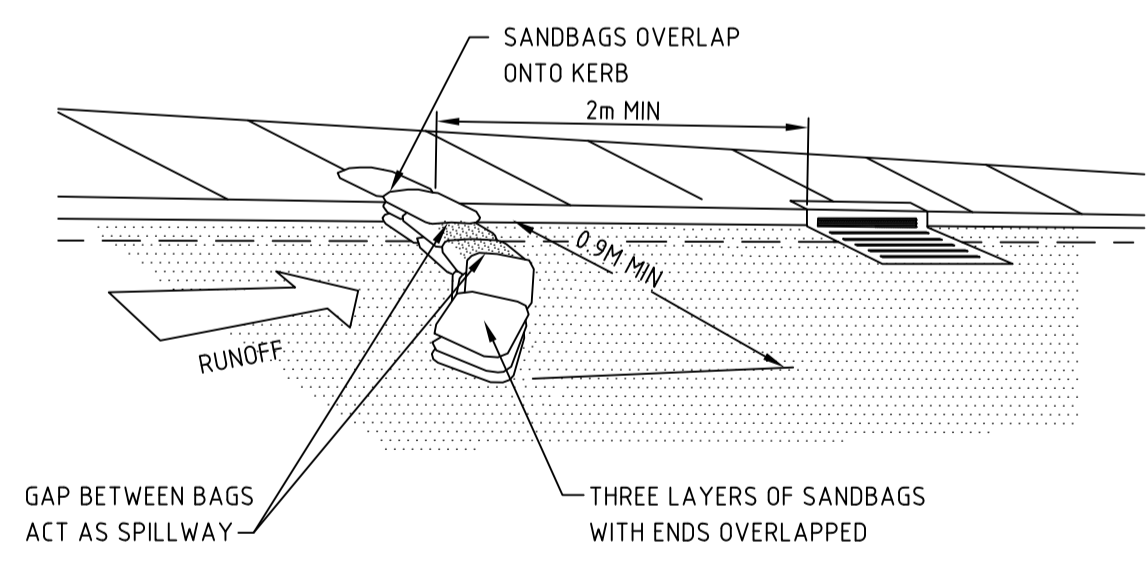
DIVERSION SWALE (MIN FALL 1%)
SCALE 1:10



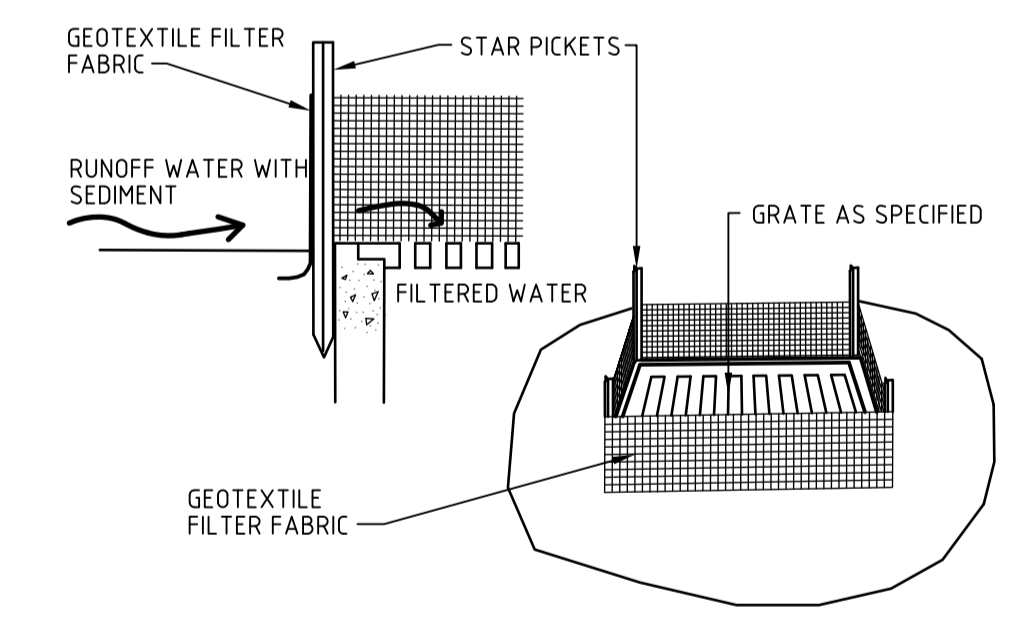
SEDIMENT FENCE
NTS



SANDBAG SEDIMENT TRAP FOR KERB INLET AT LOWPOINT
NTS

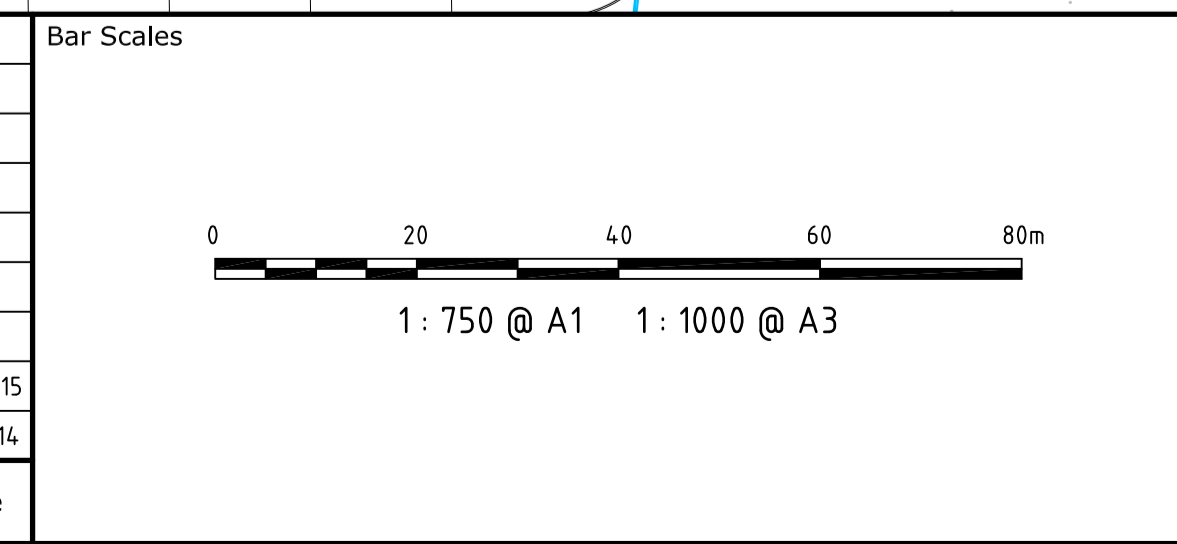


MESH AND GRAVEL INLET FILTER FOR KERB INLET ON GRADE
NTS



GEOTEXTILE INLET FILTER PIT SURROUND
NTS

| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |



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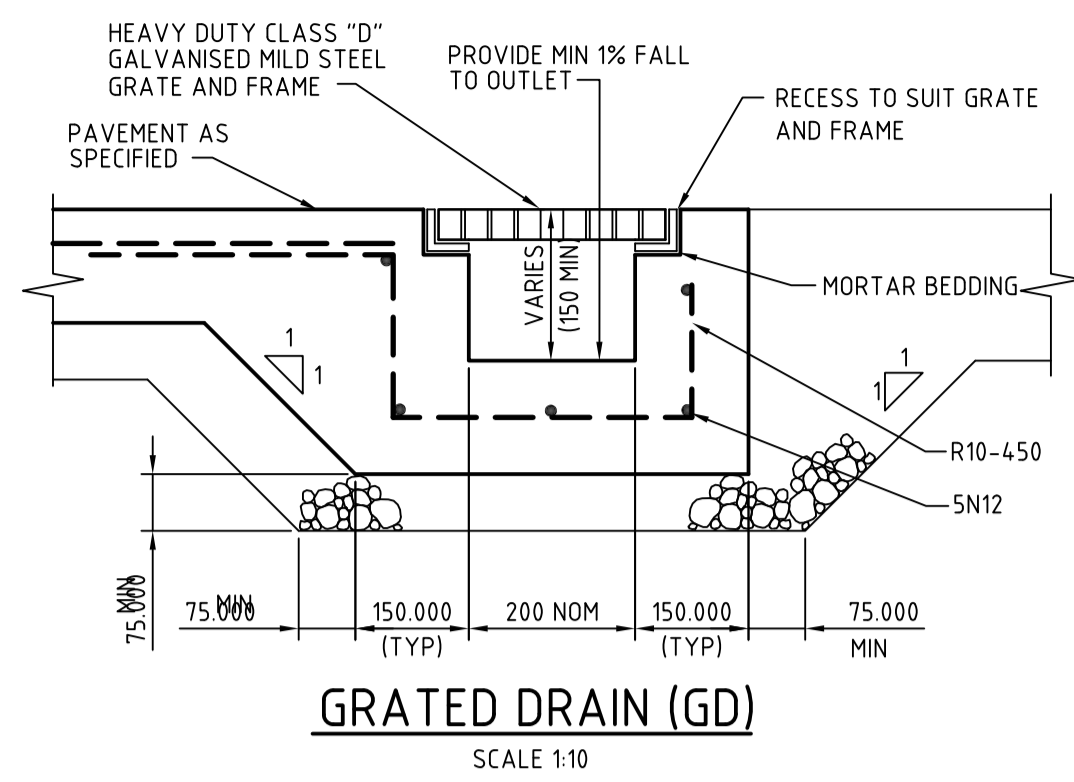
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DIAL A DUMP

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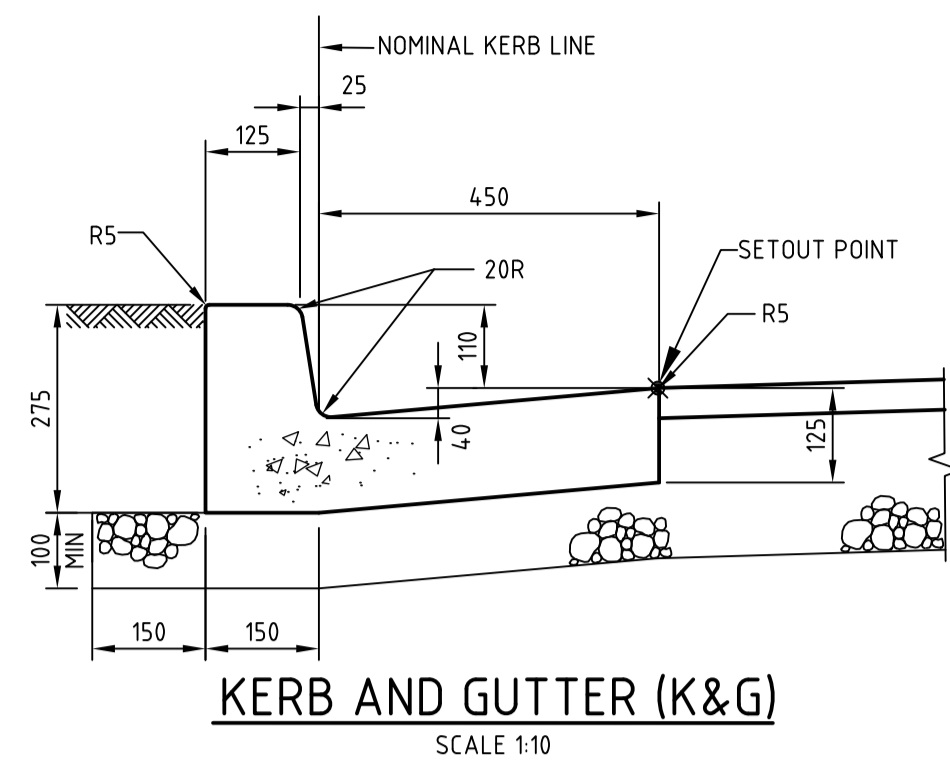
Project
PRE SORT CENTRE EASTERN CREEK

Title
EROSION AND SEDIMENT CONTROL PLAN

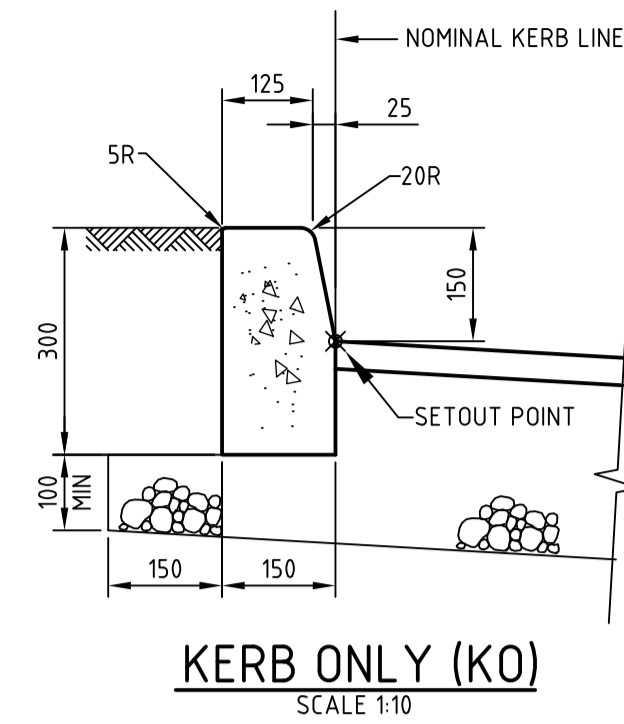
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|---|---------------------|----------|
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| Status | FOR APPROVAL | A1 |
| Drawing No. | DAC021 | Issue |
| Project No. | 14-232 | B |



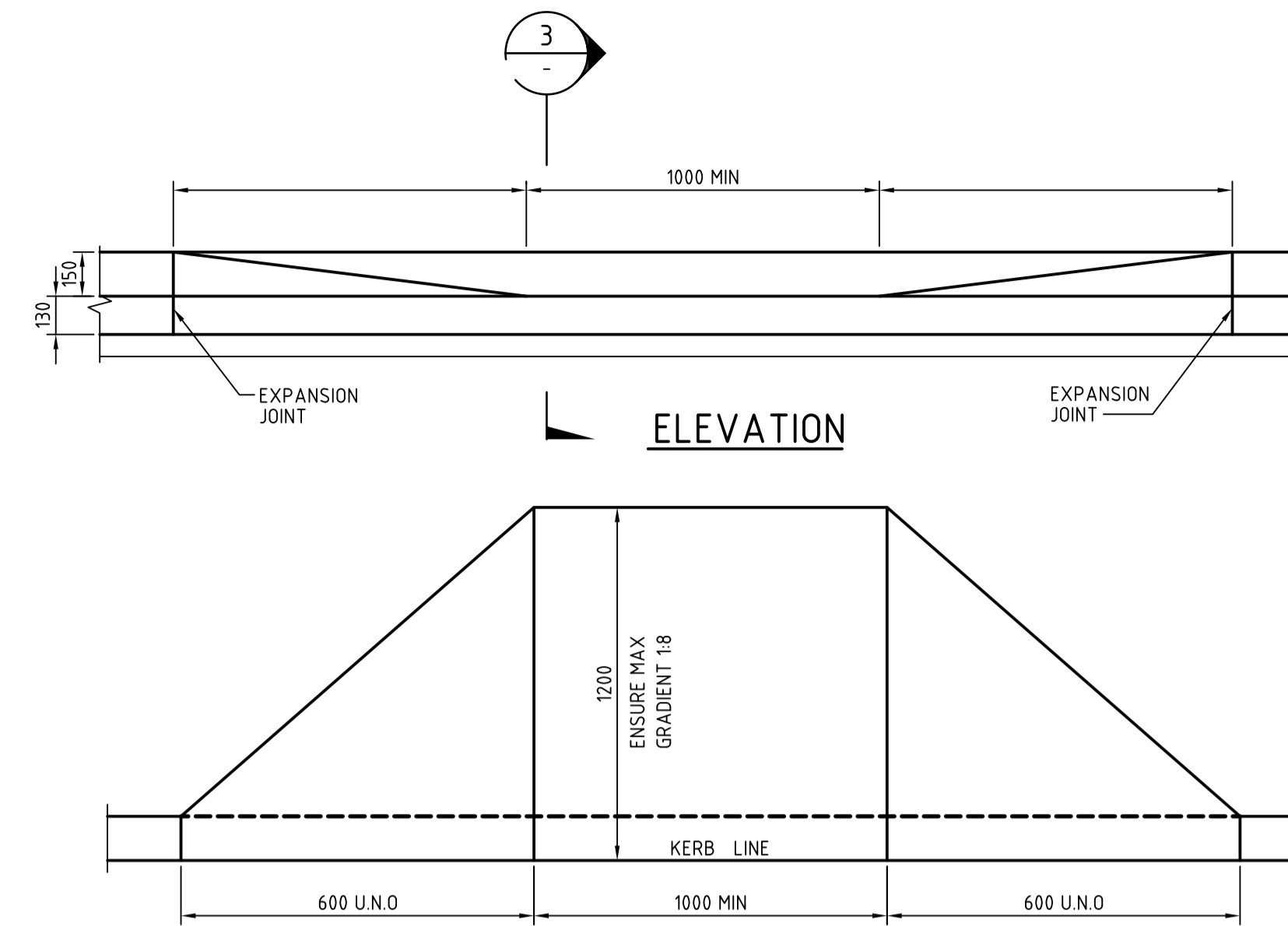
GRADED DRAIN (GD)
SCALE 1:10



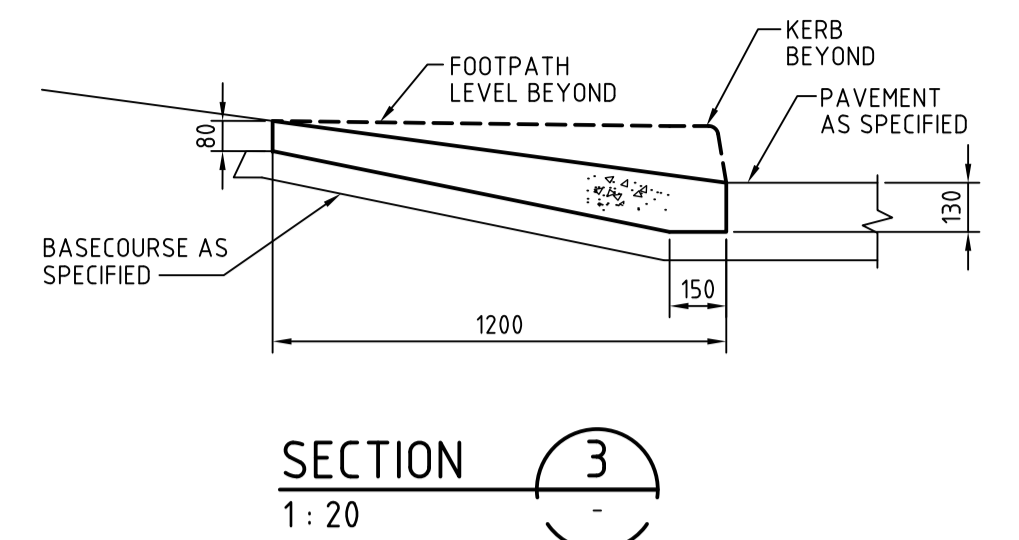
KERB AND GUTTER (K&G)
SCALE 1:10



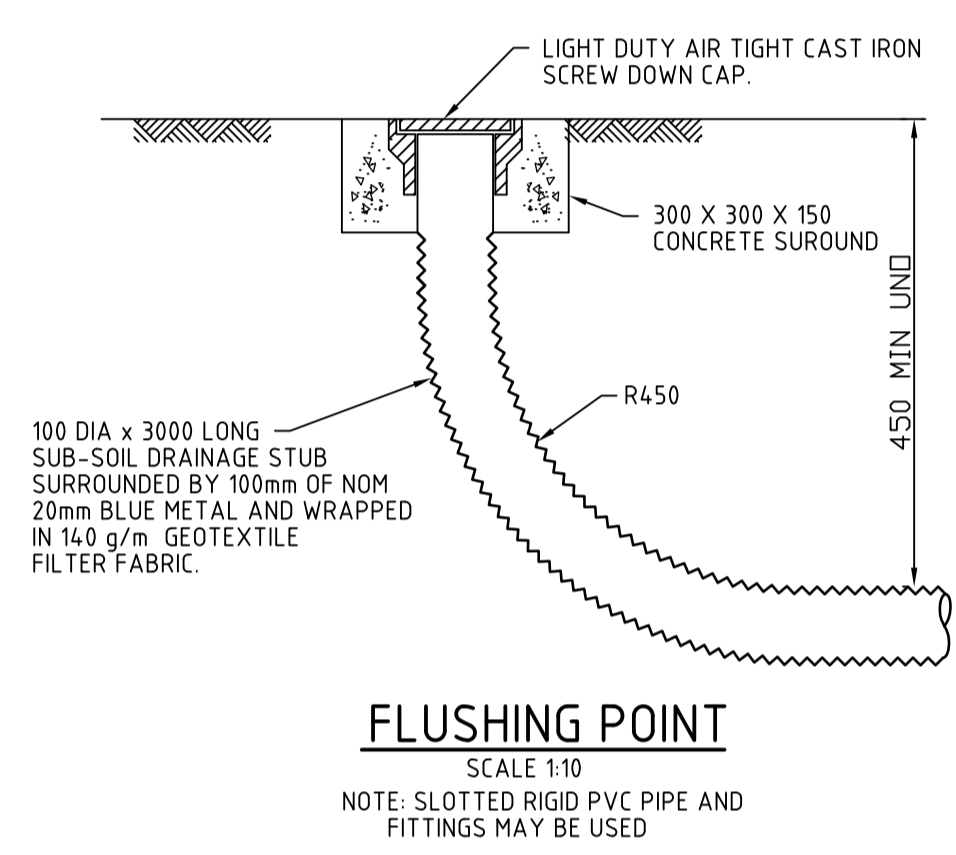
KERB ONLY (KO)
SCALE 1:10



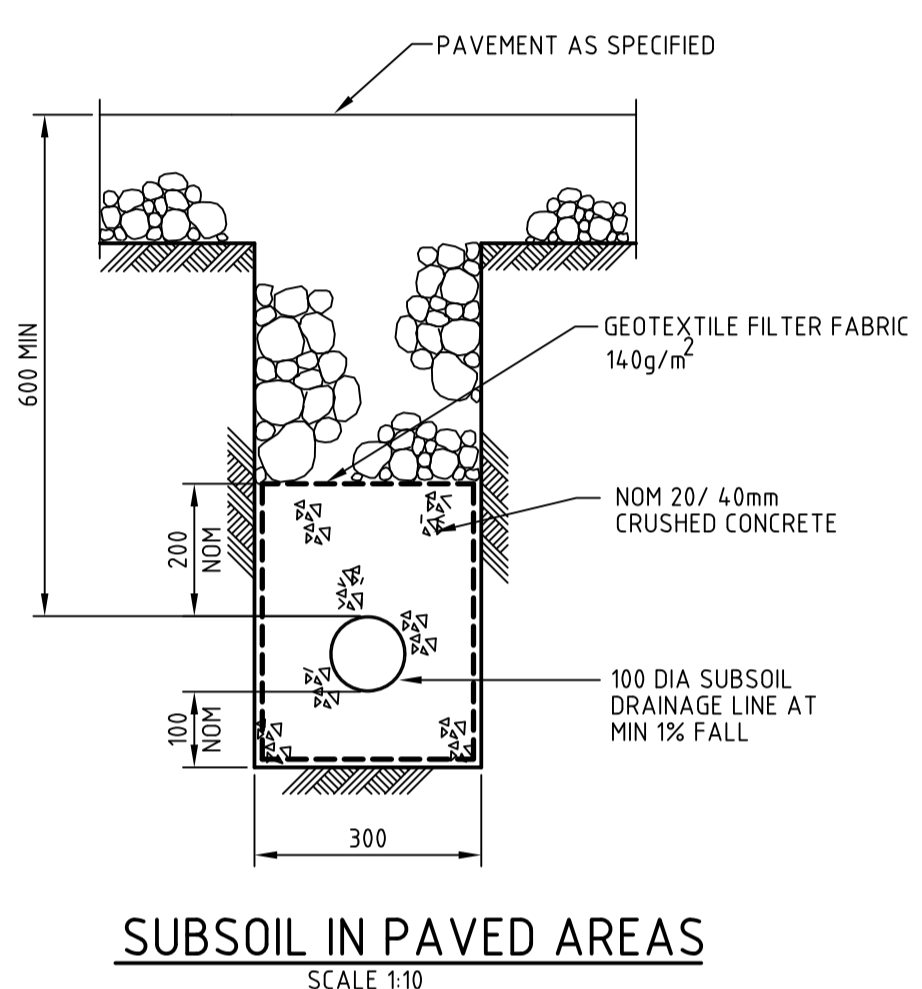
PLAN RAMPED CROSSING
SCALE 1:20



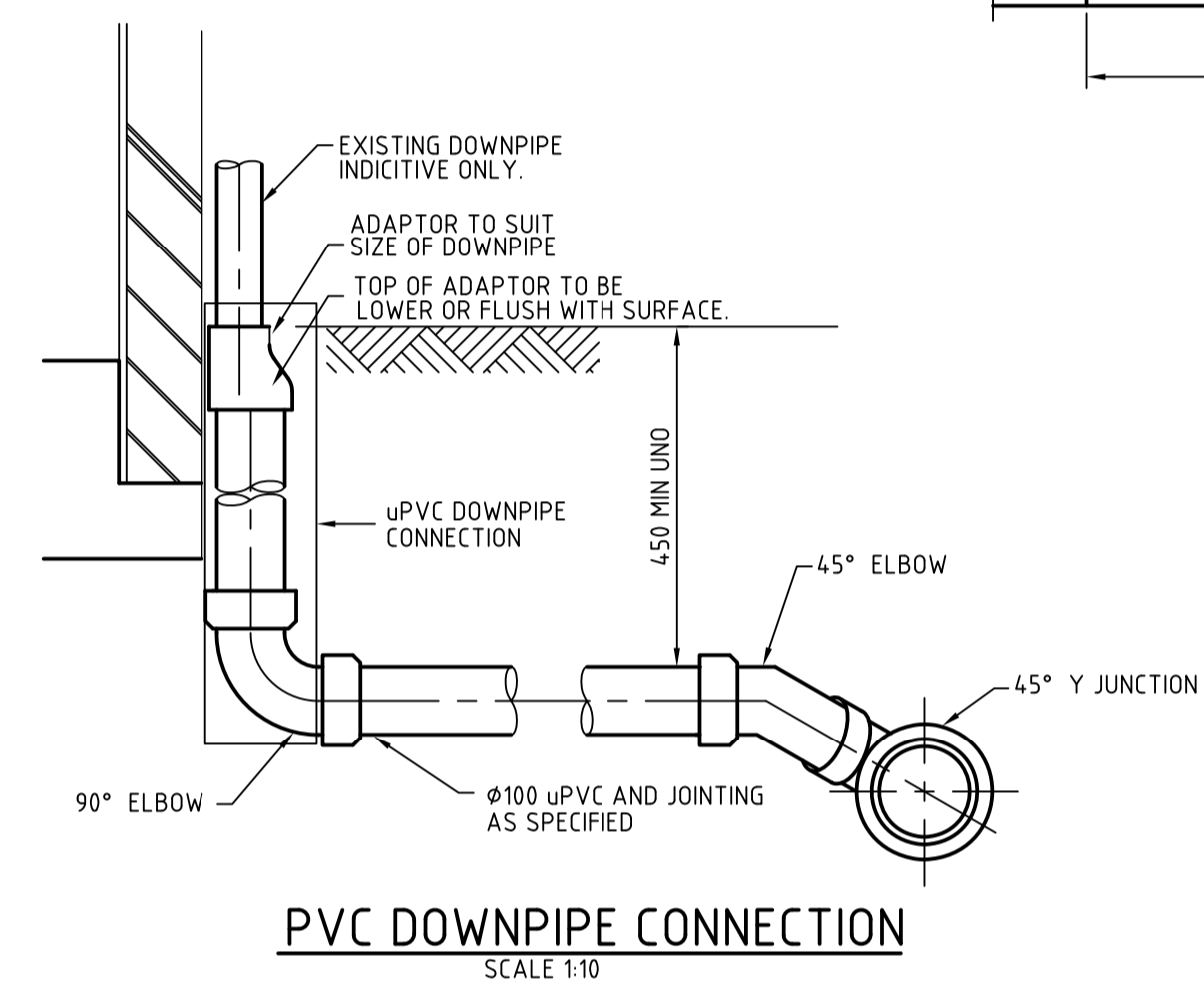
SECTION 3
1:20



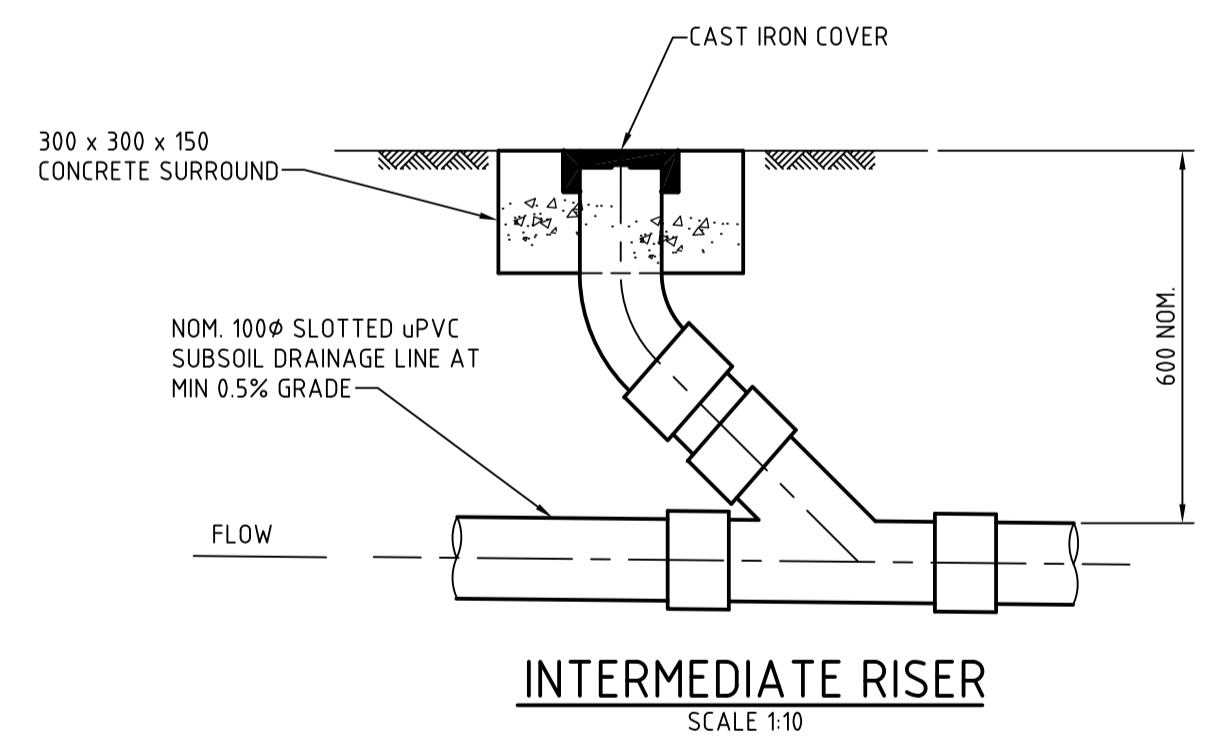
FLUSHING POINT
SCALE 1:10
NOTE: SLOTTED RIGID PVC PIPE AND FITTINGS MAY BE USED



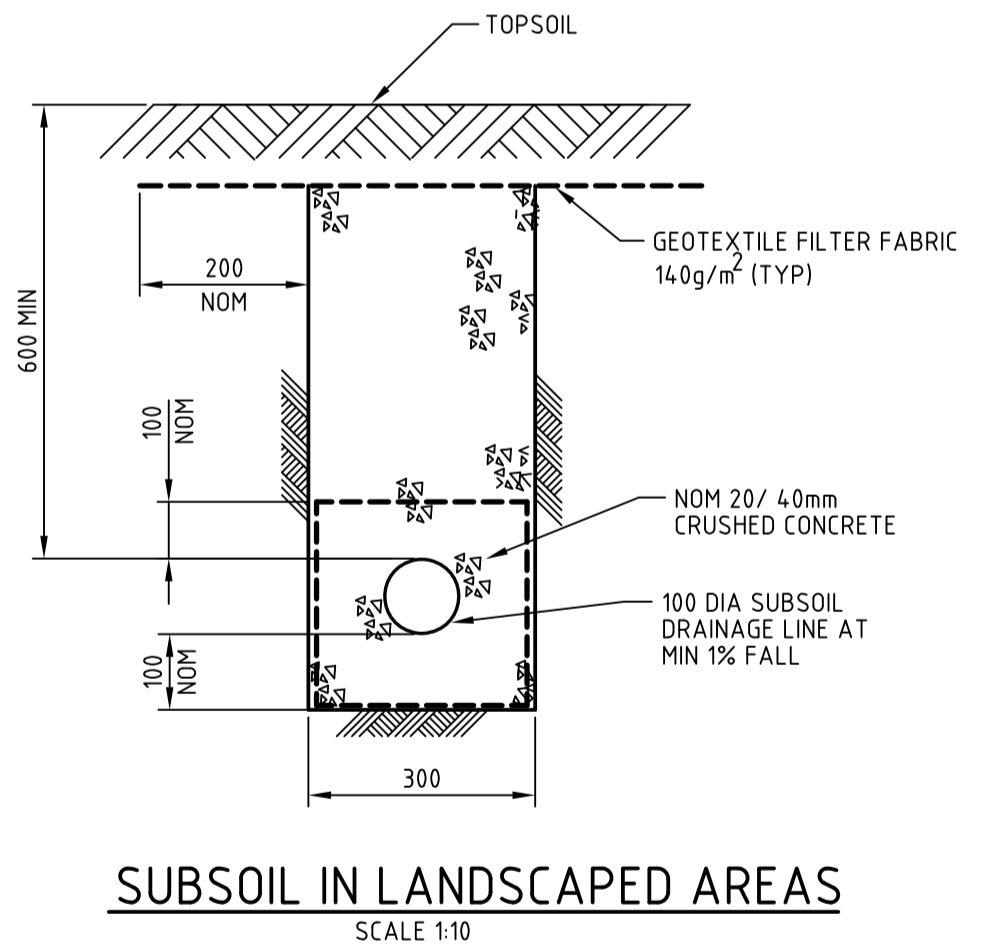
SUBSOIL IN PAVED AREAS
SCALE 1:10



PVC DOWNPIPE CONNECTION
SCALE 1:10

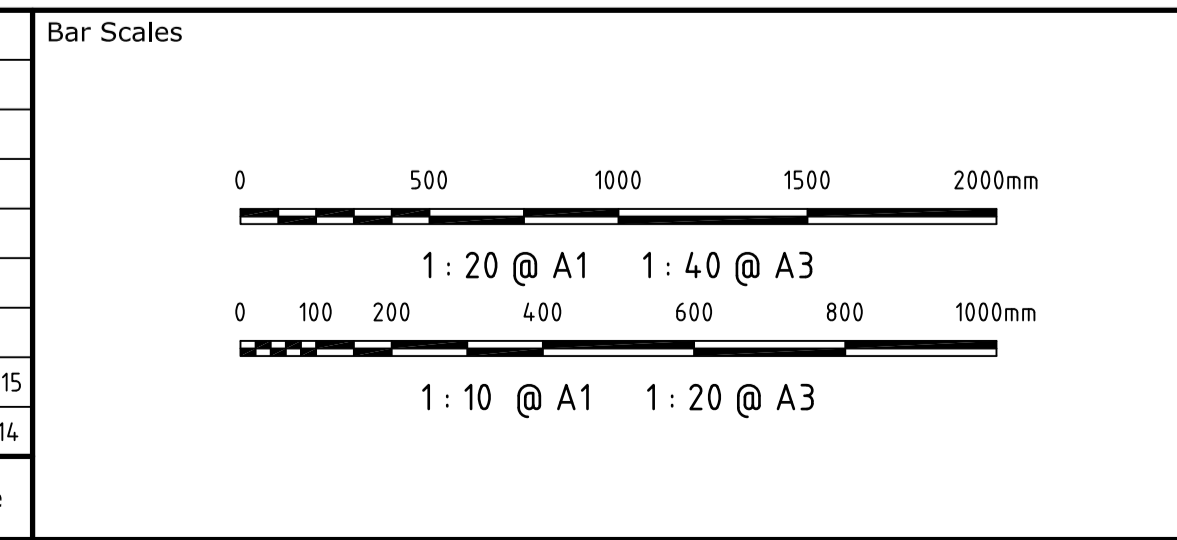


INTERMEDIATE RISER
SCALE 1:10



SUBSOIL IN LANDSCAPED AREAS
SCALE 1:10

| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |



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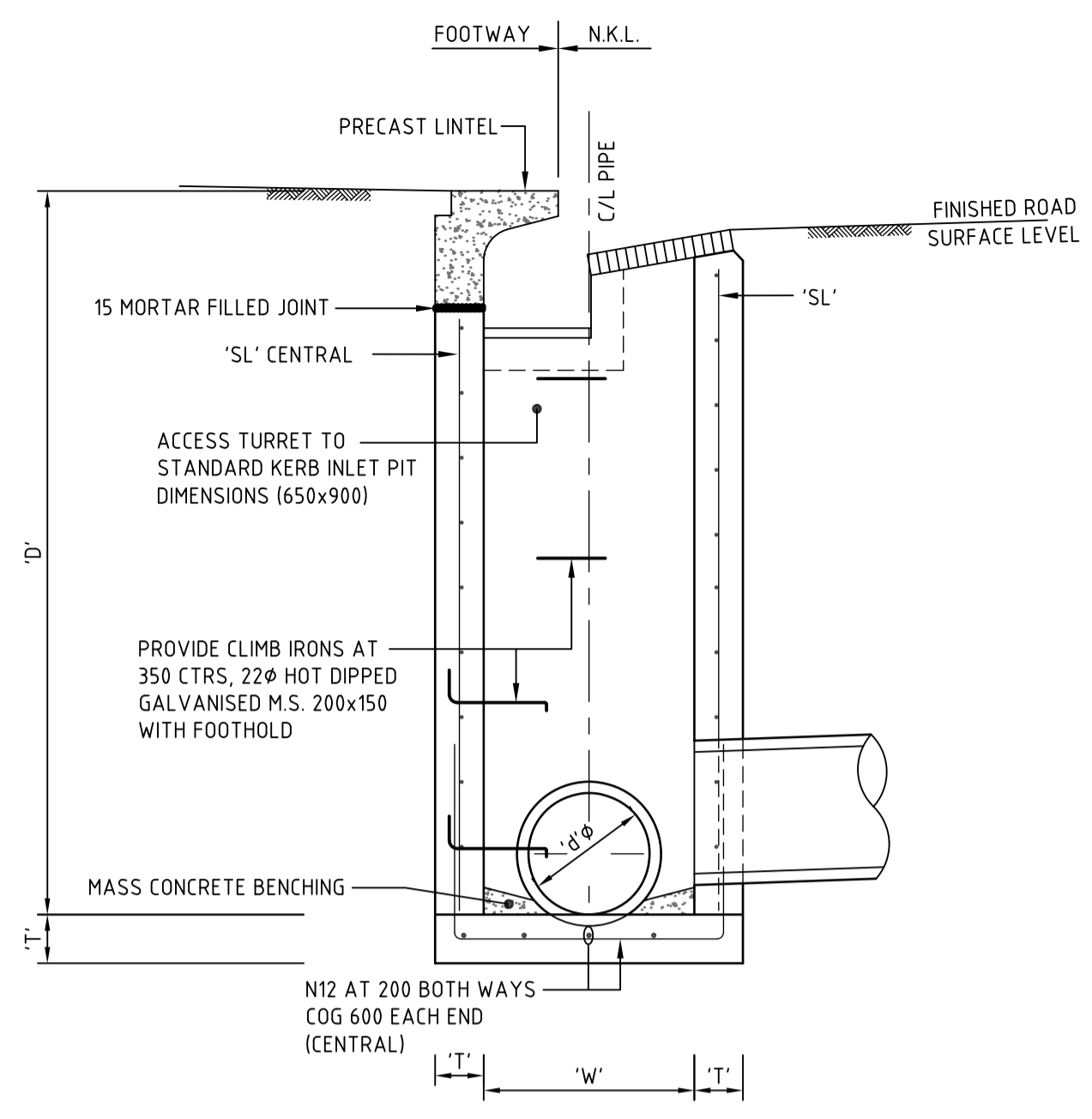
Client
DIAL A DUMP

| | | |
|------------------------|----------|----|
| Scales 1:10 1:20 | Drawn | FX |
| | Designed | FX |
| Grid MGA | Checked | AM |
| | Approved | |
| Height Datum AHD | | |

Project
PRE SORT CENTRE EASTERN CREEK

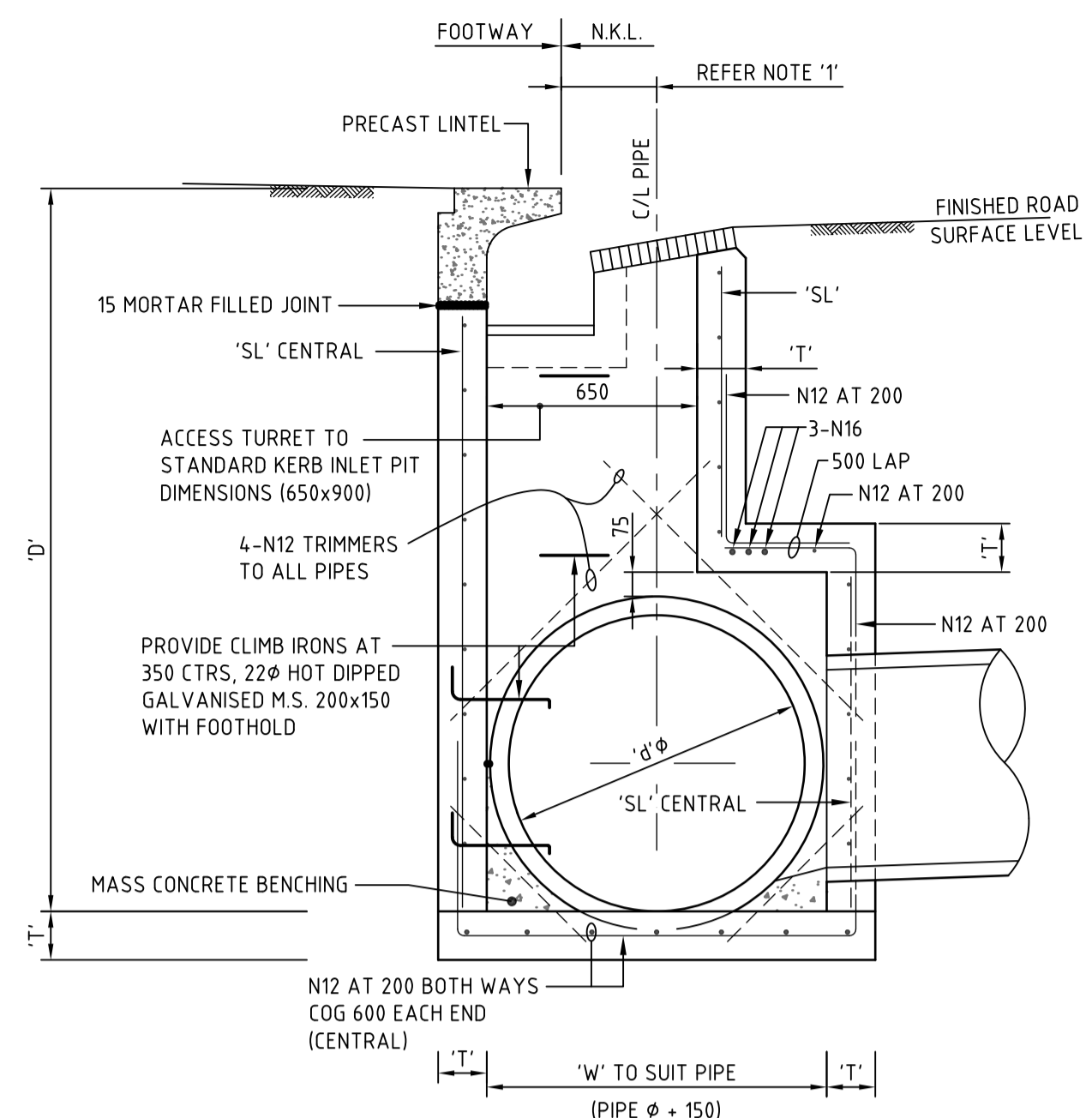
Title
SITWORKS DETAILS

| | | |
|---|------------------------------|-------------------|
| 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 FOR APPROVAL | A1 | |
| Drawing No. DAC030 | Project No. 14-232 | Issue B |



PIT TYPE 'A' DETAIL
STANDARD GRATED KERB INLET PIT
FOR PIPES UP TO 525φ
SCALE: 1:20

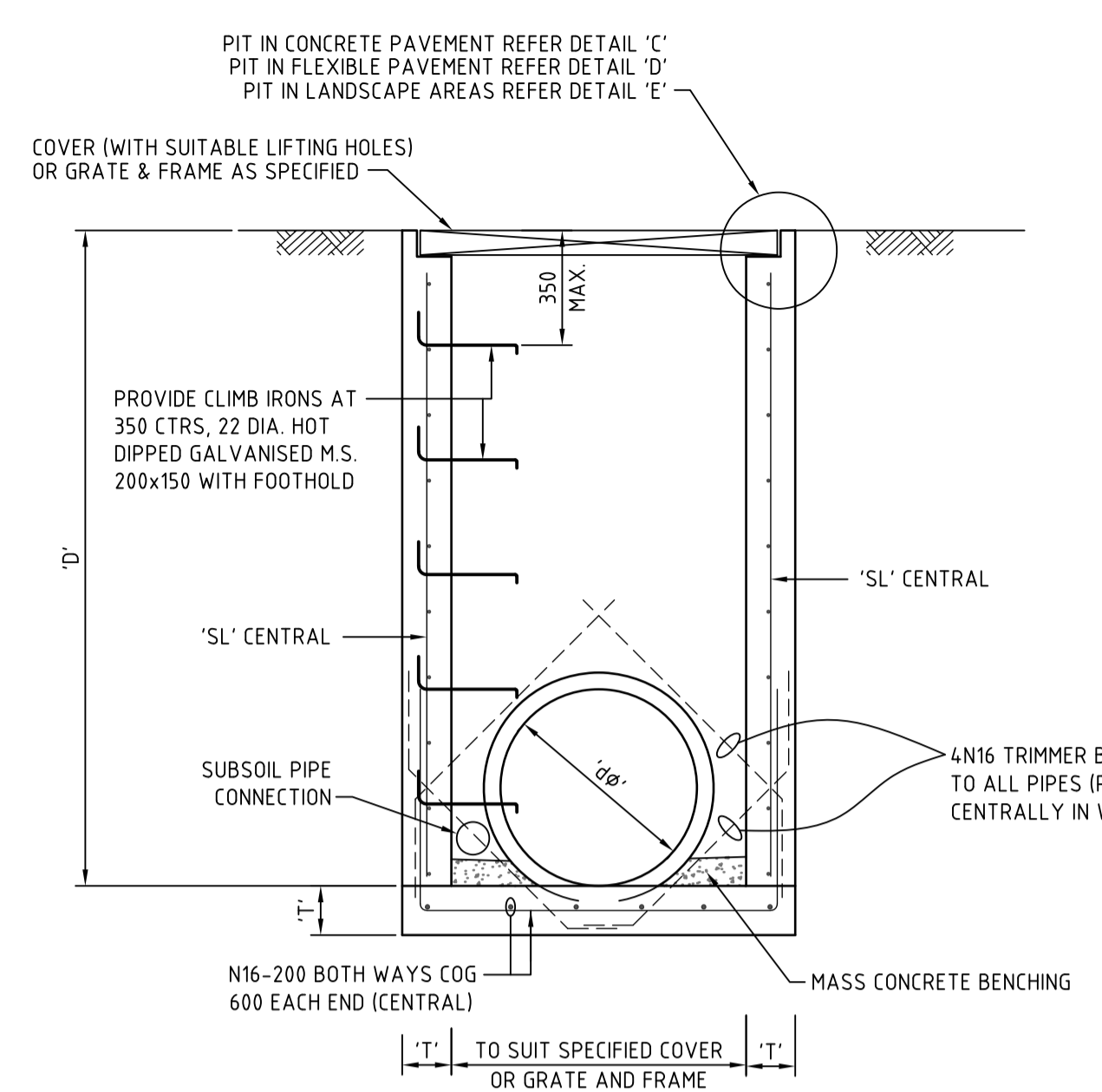
| PIPE DIA. 'φ' | WIDTH 'W' | DEPTH 'D' | WALL 'T' | FABRIC/COV 'SL' |
|---------------|-----------|-----------|----------|-----------------|
| 375 | 650 | 800 | 150 | SL72 |
| | 650 | 1200 | 150 | SL72 |
| | 650 | 1600 | 150 | SL72 |
| | 650 | 2000 | 150 | SL72 |
| | 650 | 2400 | 150 | SL72 |
| 450 | 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 600φ TO 1350φ
(ENLARGED CHAMBER)
SCALE: 1:20

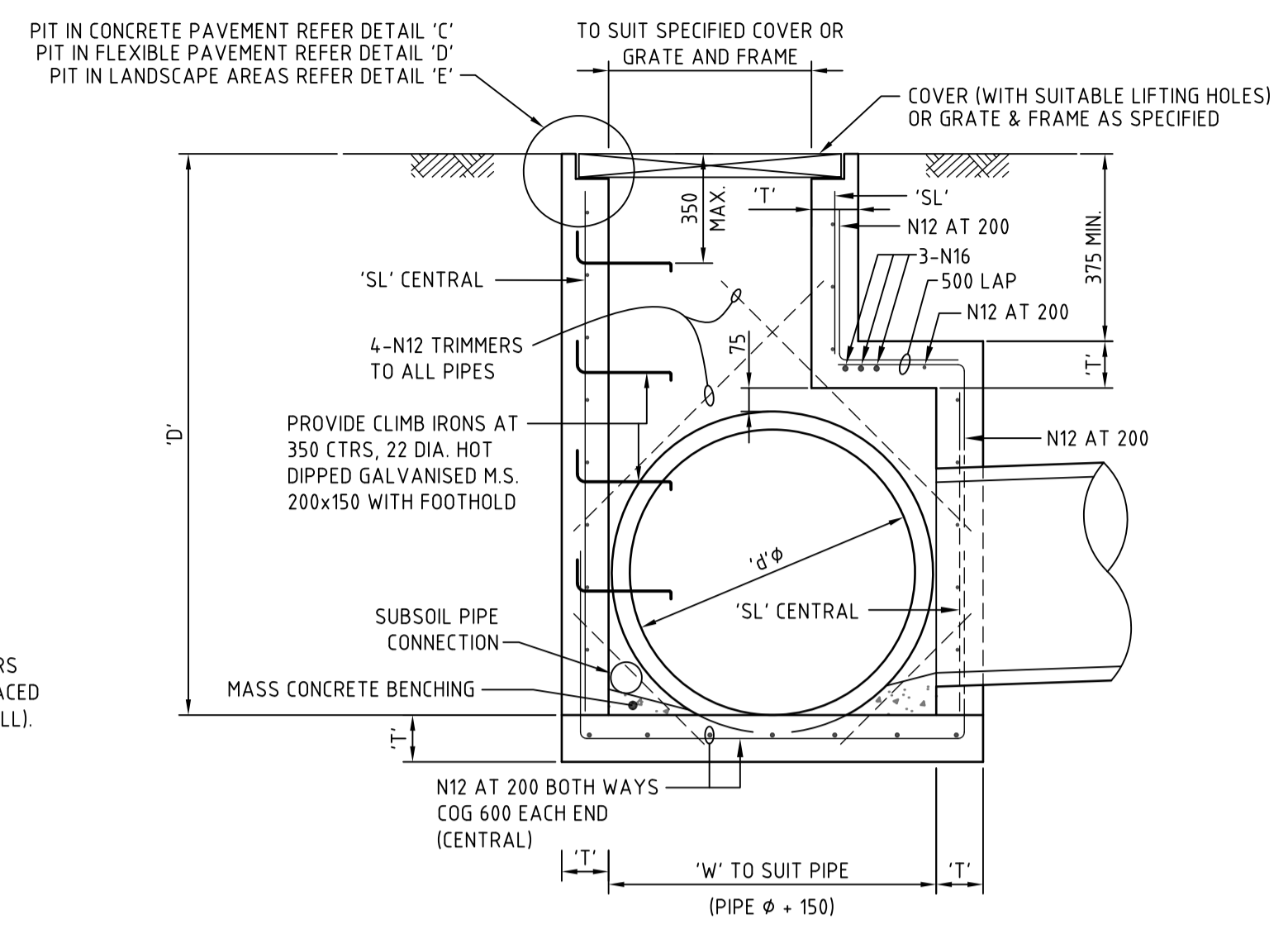
| PIPE DIA. 'φ' | WIDTH 'W' | DEPTH 'D' | WALL 'T' | FABRIC/COV 'SL' |
|---------------|-----------|-----------|----------|-----------------|
| 600 | 850 | 1200 | 150 | SL72 |
| | 850 | 1600 | 150 | SL72 |
| | 850 | 2000 | 150 | SL72 |
| | 850 | 2400 | 150 | SL72 |
| | 850 | 2800 | 150 | SL72 |
| 675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

NOTE 1
150 FOR φ600 DIA.
180 FOR φ675 DIA.
220 FOR φ750 DIA.
255 FOR φ825 DIA.
370 FOR φ1050 DIA.
445 FOR φ1200 DIA.



PIT TYPE 'C' DETAIL
SURFACE INLET PIT
FOR PIPES UP TO 525φ
SCALE: 1:20

| PIPE DIA. 'φ' | 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 'D' DETAIL
SURFACE INLET PIT
FOR PIPES FROM 600φ TO 1350φ
(ENLARGED CHAMBER)
SCALE: 1:20

| PIPE DIA. 'φ' | 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 |
| 750 | 1020 | 1200 | 150 | SL72 |
| | 1020 | 1600 | 150 | SL72 |
| | 1020 | 2000 | 150 | SL72 |
| 825 | 1100 | 1600 | 150 | SL72 |
| | 1100 | 2000 | 150 | SL72 |
| | 1100 | 2400 | 150 | SL72 |
| 900 | 1180 | 1600 | 150 | SL72 |
| | 1180 | 2000 | 150 | SL72 |
| | 1180 | 2400 | 150 | SL72 |
| 1050 | 1345 | 1600 | 150 | SL92 |
| | 1345 | 2000 | 150 | SL92 |
| | 1345 | 2400 | 150 | SL92 |
| 1200 | 1510 | 2000 | 150 | SL102 |
| | 1510 | 2400 | 150 | SL102 |
| | 1510 | 2800 | 150 | SL102 |
| 1350 | 1690 | 2000 | 200 | N12@150 |
| | 1690 | 2400 | 200 | N12@150 |
| | 1690 | 2800 | 200 | N12@150 |

NOTE

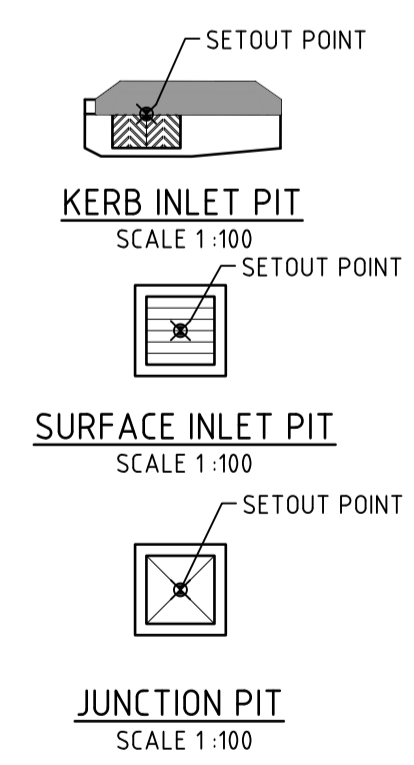
- FOR PIT SIZE REFER TO TABLE (900 MIN LONG).
- REINFORCING MESH IS TO BE BENT TO LAP 300 AROUND ALL CORNERS. VERTICAL BARS ARE NOT TO BE CUT. ALTERNATIVELY PROVIDE N12 "L" BARS (500x500) AT 400 VERTICAL CTS.
- COMPRESSIVE STRENGTH (F'c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 32 MPa AT 28 DAYS.
- TOP OF BENCHING SHALL BE 1/2 OF OUTLET PIPE DIAMETER.
- 100mm SUBSOIL DRAINAGE PIPE 3000 LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED 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

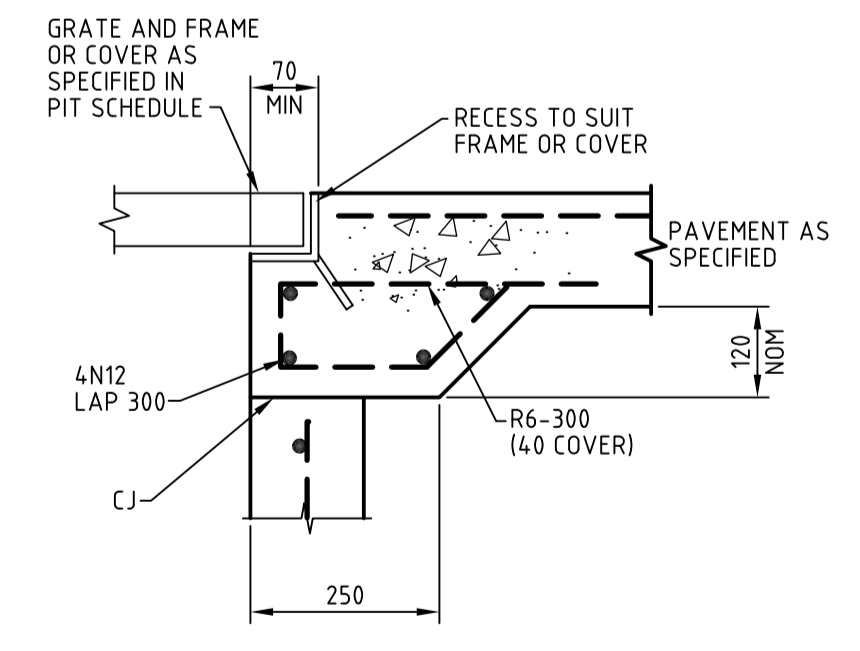
| ELEMENT | f'c MPa (28 DAYS) | SLUMP | MAX AGG SIZE | CEMENT TYPE |
|---------|-------------------|-------|--------------|-------------|
| PITS | 32 | 80mm | 20mm | GP |

12. COVER - UNLESS NOTED OTHERWISE

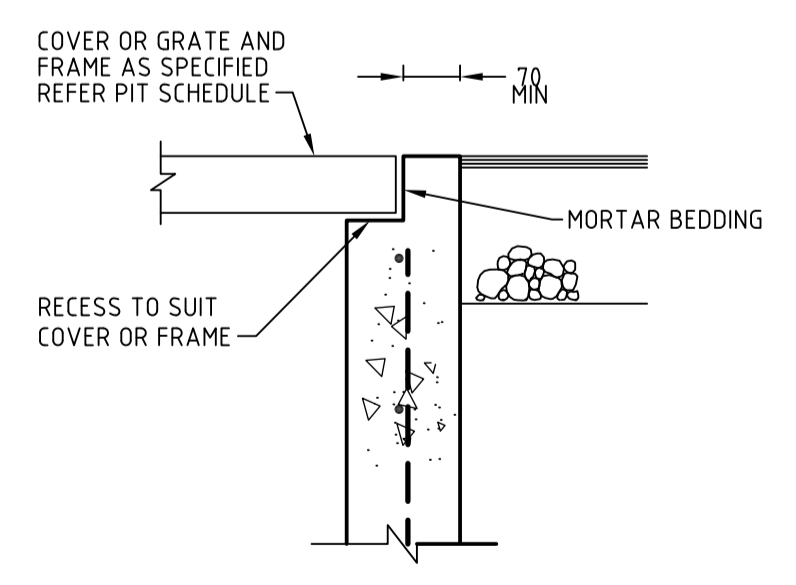
| ELEMENT | INTERIOR | EXTERIOR |
|-------------|----------|----------|
| PITS | | 45mm |
| SLAB TOP | 45mm | 45mm |
| SLAB BOTTOM | 45mm | 45mm |
| BEAM TOP | | |
| BEAM BOTTOM | | |
| BEAM SIDE | | |
| COLUMNS | | |



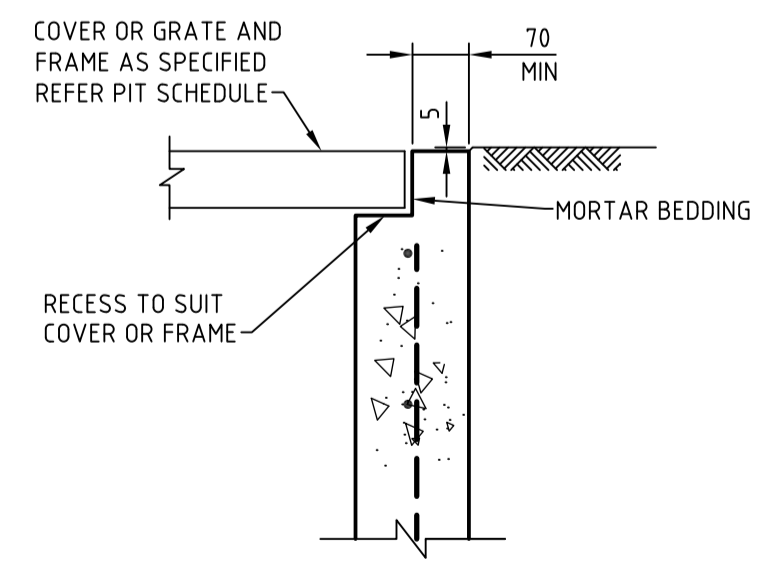
STORMWATER PIT SETOUT POINTS



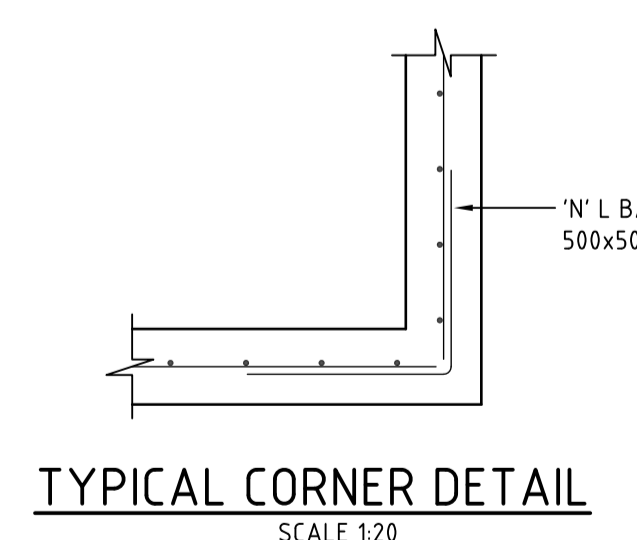
DETAIL "C"
SCALE 1:10



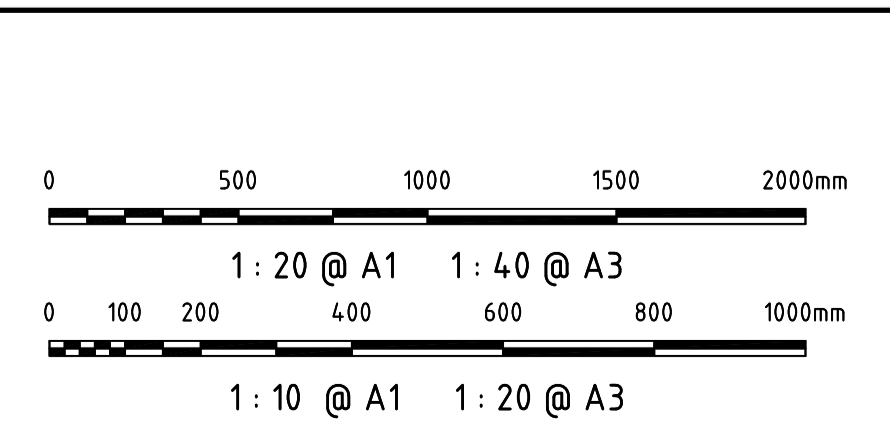
DETAIL "D"
SCALE 1:10



DETAIL "E"
SCALE 1:10



TYPICAL CORNER DETAIL
SCALE 1:20



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DIAL A DUMP

| Issue | Description | Date |
|-------|---------------------|----------|
| B | ISSUED FOR APPROVAL | 03-03-15 |
| A | ISSUED FOR APPROVAL | 15-12-14 |

| Scales | 1:10 | 1:20 |
|--------------|------|----------|
| Drawn | FX | FX |
| Grid | MGA | AM |
| Height Datum | AHD | Approved |

| Project | PRE SORT CENTRE EASTERN CREEK |
|-------------|-------------------------------|
| Title | DRAINAGE DETAILS |
| Status | FOR APPROVAL |
| Drawing No. | DAC031 |
| Project No. | 14-232 |
| Issue | B |

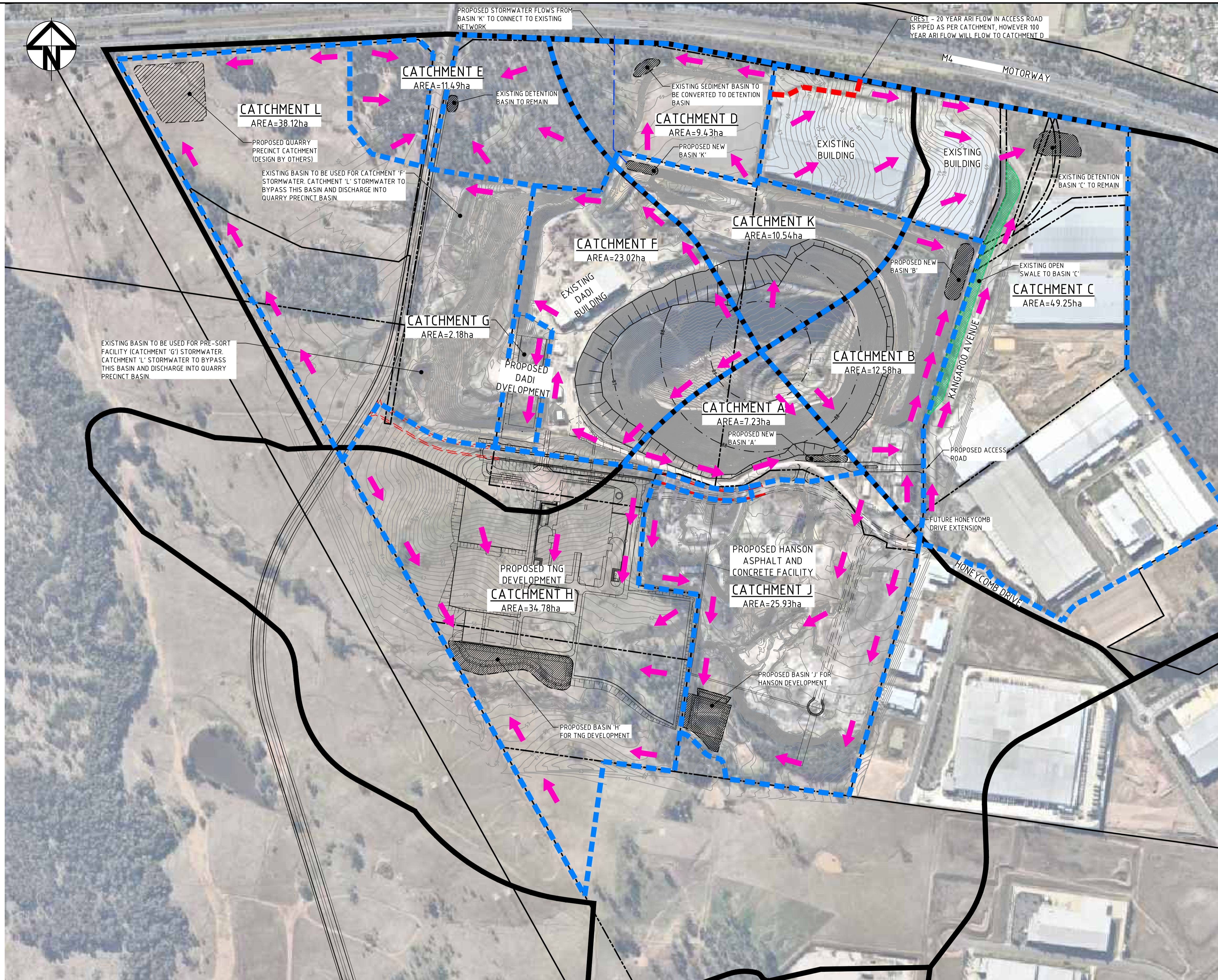
Civil Engineers and Project Managers

at&l

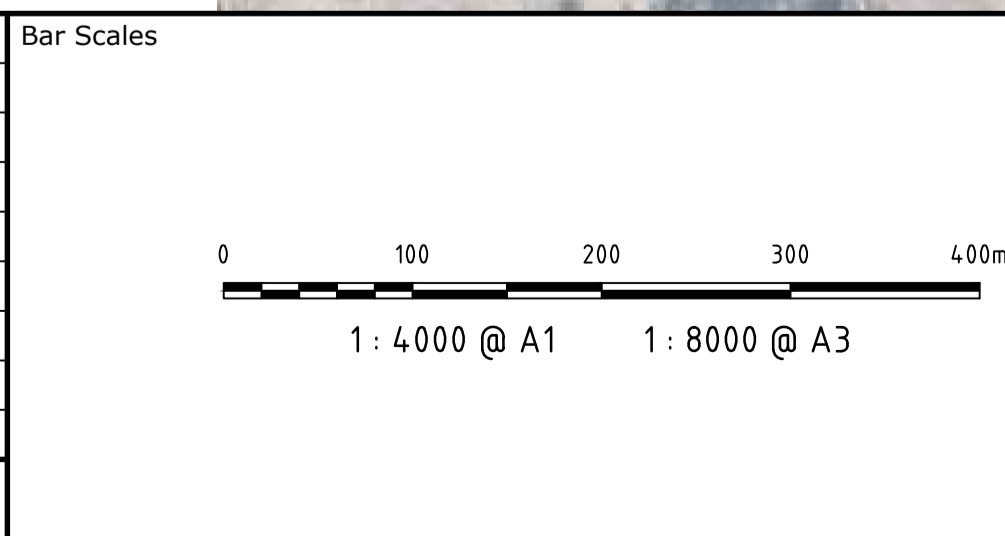
Suite 702, 154 Pacific Hwy
St Leonards NSW 2065
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9460 8413
www.atl.net.au
info@atl.net.au

| CATCHMENT | AREA | VOLUME REQUIRED FOR OSD | SURFACE AREA REQUIRED FOR BIO-RETENTION |
|-----------|---------|-------------------------|---|
| A | 7.23ha | 2,510m ³ | 730m ² |
| B | 12.58ha | 4,300m ³ | 1,320m ² |
| C | 4.925ha | - | - |
| D | 9.43ha | 3,300m ³ | 950m ² |
| E | 11.49ha | - | - |
| F | 23.02ha | 8,300m ³ | 2,400m ² |
| G | 2.18ha | 760m ³ | 220m ² |
| H | 34.78ha | 12,080m ³ | 3,510m ² |
| J | 25.93ha | UNKNOWN | UNKNOWN |
| K | 10.54ha | 3,600m ³ | 1,070m ² |
| L | 38.12ha | 13,250m ³ | 3,840m ² |

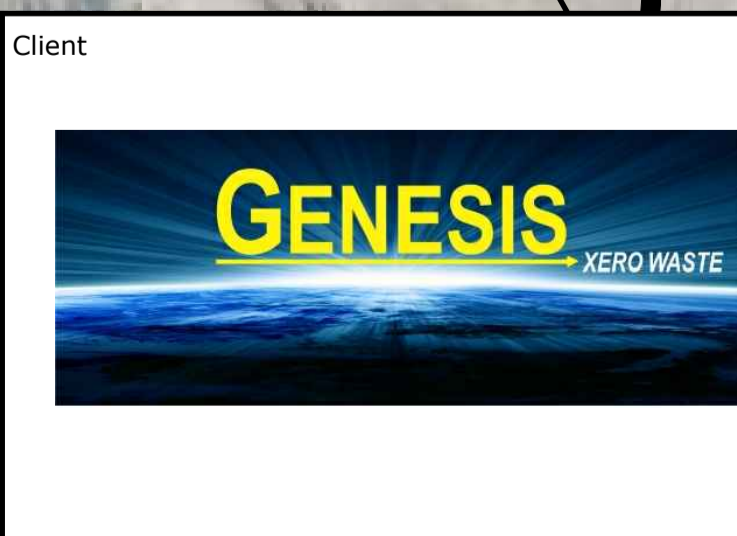
- NOTE:**
- SIZE OF OSD/BIO-RETENTION BASINS BASED ON ASSUMPTION THAT CATCHMENT WILL BE 80% IMPERVIOUS AREA. CALCULATIONS AS PER BLACKTOWN CITY COUNCIL SEPP No.59.
 - WSUD TARGET REDUCTION REQUIREMENTS;
 - 85% TOTAL SUSPENDED SOLIDS (TSS)
 - 65% TOTAL PHOSPHORUS (TP)
 - 45% TOTAL NITROGEN (TN)
 - 90% TOTAL HYDROCARBONS
 - 90% GROSS POLLUTANTS
 - CATCHMENTS 'C' AND 'E' WILL NOT BE ALTERED. EXISTING BASINS ARE ASSUMED SUFFICIENT. CATCHMENT 'J' IS ASSUMED TO DRAIN TO BASIN 'J' AND HAS BEEN ASSIGNED ACCORDINGLY.



| Issue | Description | Date |
|-------|------------------------|----------|
| P6 | ISSUED FOR INFORMATION | 26-10-15 |
| P5 | ISSUED FOR INFORMATION | 12-10-15 |
| P4 | ISSUED FOR INFORMATION | 18-09-15 |
| P3 | ISSUED FOR INFORMATION | 01-09-15 |
| P2 | ISSUED FOR INFORMATION | 28-08-15 |
| P1 | ISSUED FOR INFORMATION | 24-08-15 |



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| | |
|--------------|--------------------|
| Client | GENESIS XERO WASTE |
| Scales | 1:4000 |
| Grid | |
| Height Datum | |
| Drawn | ASD |
| Designed | ASD |
| Checked | AT |
| Approved | |

| | |
|---------|--|
| Project | GENESIS XERO WASTE FACILITY EASTERN CREEK |
| Title | PROPOSED FUTURE STORMWATER MANAGEMENT PLAN |

| | |
|---|-----------------|
| 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 | FOR INFORMATION |
| NOT TO BE USED FOR CONSTRUCTION | |
| Drawing No. | SKC007 |
| Project No. | 15-309 |
| Issue | P6 |