

BOTANY AQUATIC CENTRE  
2 MYRTLE STREET, NSW, 2019  
STAGE 1 CIVIL LAYOUT



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GENERAL NOTES:

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DrawingTitle:  
LOCALITY PLAN & DRAWING INDEX

Client/Project:  
BOTANY AQUATIC CENTRE

Status:

PRELIMINARY



Project No:	Dwg No:	Revision:	Dwg Size:
S20_010	C001	P3	A1
Drawn:	Date:	Checked:	Scale:
JR	JAN21	ND	1:500

Rev:	Date:	Notes:	By:	Chkd:
P3	5.10.21	ISSUED FOR DA APPROVAL	JR	ND
P2	05.07.21	DA LODGEMENT RFI	JR	ND
P1	26.03.21	ISSUED FOR DA LODGEMENT	JR	ND







SITE MAINTENANCE:

1. PROVIDE A DRAINAGE SYSTEM AS SOON AS THE FOOTINGS ARE CONSTRUCTED. IT MUST PREVENT PONDING AGAINST, NEAR OR BENEATH THE FOOTINGS IN ORDER TO MAINTAIN A STABLE MOISTURE CONTENT WITHIN THE FOUNDATION. GRADING THE SURFACES (1 IN 20 FOR AT LEAST 2.0m) AWAY FROM FOOTINGS AND THEIR EXCAVATIONS TO COLLECTION POINTS WILL BE NECESSARY DURING CONSTRUCTION IN WET WEATHER.
2. PAVE OR GRADE THE FINISHED SURFACES AWAY FROM THE BUILDING AT SLOPES OF 1:40. THE ONGOING BUILDING MAINTENANCE SHOULD ENSURE THE EFFICIENT COLLECTION AND THE CHANNELING OF RUN-OFF AWAY FROM THE BUILDING. LEADING EDGES OF PAVING CAST AGAINST THE BUILDING AND PROVIDING AN INTERFACE BETWEEN LANDSCAPED AREAS AND THE BUILDING ARE RECOMMENDED TO HAVE CAST LIPS WHICH PENETRATE AT LEAST 400mm INTO THE SOIL AS A CUT OFF FOR UNDER PAVEMENT SEEPAGE.
3. PLUMBING TRENCHES SHOULD BE SLOPED AWAY FROM THE BUILDINGS. THE FIRST 1.5m OF TRENCH FROM THE BUILDING SHOULD BE BACKFILLED WITH TAMPED CLAY TO FORM A CUT-OFF AGAINST SEEPAGE VIA TRENCHES THAT LEAD UNDER THE BUILDING.
4. SUBSURFACE DRAINS NEAR FOOTINGS SHOULD BE AVOIDED. IF THEY ARE NECESSARY, THE TRENCHES MUST BE CAPABLE OF PROVIDING DRAINAGE IF BLOCKAGE OCCURS.
5. PLUMBING PROBLEMS THAT COULD CAUSE CHANGES TO FOUNDATION'S MOISTURE CONTENT SHOULD BE RECTIFIED IMMEDIATELY.

CONSTRUCTION DRAINAGE SYSTEM:

1. CARRY OUT WORKS IN DRY WEATHER.
2. DO NOT LEAVE TRENCHES OPEN FOR A LONG PERIOD OF TIME
3. BUILD DRAINAGE SYSTEM COMMENCING FROM DOWN STREAM.
4. PLACE FILTER MATERIAL IN EXISTING PIT DOWN STREAM, UNTIL ALL DRAINAGE IS IN PLACE AND THEN INSTALL SILT CONTROL DEVICES AT EACH NEW PIT.

EXISTING SERVICES:

1. ALL EXISTING SERVICES ARE TO BE LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.
2. THE CONTRACTOR IS TO VERIFY THE LOCATION AND LEVEL OF SERVICES PRIOR TO ANY EXCAVATION WORKS IN THE VICINITY OF THESE SERVICES. ALL CLEARANCE BETWEEN SERVICES ARE TO BE MET IN ACCORDANCE WITH AS3500.3 SECTION 7.2.7.
3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS.
4. THE CONTRACTOR IS TO CONTACT ALL RELEVANT AUTHORITIES 48 HOURS PRIOR TO ANY EXCAVATION WORKS IN THE VICINITY OF THE IDENTIFIED SERVICES.
5. THE CONTRACTOR IS TO ALLOW TO MODIFY, TERMINATE, EXTEND OR OTHERWISE TREAT THE EXISTING SERVICES AS REQUIRED BY TENDER DOCUMENTATION, AS REQUIRED OR DIRECTED ON SITE DURING THE COURSE OF THE WORKS INCLUDING ENSURING CONTINUITY OF SUPPLY TO ADJOINING DWELLINGS AND FOR THE PURPOSE OF CONSTRUCTION.

TREE PROTECTION:

WHERE TREES HAVE BEEN IDENTIFIED AS REQUIRING PROTECTION THE FOLLOWING SHALL APPLY:

1. THE TREE PROTECTION ZONE (TPZ) SHALL BE FENCED AND HAVE SIGNAGE AS DETAILED IN AS4970 USING SUITABLE FENCING AS DETAILED IN AS4687 DURING ALL CONSTRUCTION WORKS (SUCH AS CHAIN WIRE MESH FENCING PANELS HELD IN PLACE WITH CONCRETE FEET OR WOODEN PALING FENCE PANELS). THE RADIUS OF THE TPZ CAN BE CALCULATED BY MULTIPLYING THE TRUNK DIAMETER (MEASURED 1.4m ABOVE GROUND) BY TWELVE. (THE RADIUS IS MEASURED FROM THE CENTRE OF THE STEM AT GROUND LEVEL).
2. WHERE WORKS ARE REQUIRED WITHIN THE TPZ THE BRANCHES AND TRUNK SHALL BE PROTECTED BY BOARDS AND PADDING (AS DETAILED IN AS4970 FIG 4); THE ROOTS SHALL BE PROTECTED BY GEOTEXTILE FABRIC AND BOARDS (TO PREVENT COMPACTION BY CONSTRUCTION TRAFFIC); ANY EXCAVATION AROUND THE TREE ROOTS SHALL BE UNDERTAKEN MANUALLY AND BACKFILLED WITH MATERIAL TO THE SAME DENSITY OF THE EXISTING SOIL - AS DETAILED IN AS4970.
3. DURING WORKS WITHIN THE TPZ THE SOIL SHOULD BE KEPT MOIST AS REQUIRED.

4. ACTIVITIES RESTRICTED WITHIN THE TPZ  
ACTIVITIES GENERALLY EXCLUDED FROM THE TPZ INCLUDE BUT ARE NOT LIMITED TO:

a. MACHINE EXCAVATION INCLUDING TRENCHING

b. EXCAVATION FOR SILT FENCING

c. CULTIVATION

d. STORAGE OF ANY MATERIALS

e. PREPARATION OF CHEMICALS, INCLUDING PREPARATION OF CEMENT PRODUCTS

f. PARKING OF VEHICLES AND PLANT

g. REFUELING

h. DUMPING OF WASTE

i. WASH DOWN AND CLEANING OF EQUIPMENT

j. PLACEMENT OF FILL

k. LIGHTING OF FIRES

l. SOIL LEVEL CHANGES

m. TEMPORARY OR PERMANENT INSTALLATION OF UTILITIES AND SIGNS

n. PHYSICAL DAMAGE TO THE TREE

D.D.A. COMPLIANCE:

1. ALL ACCESS AND SIGNAGE WORKS TO BE IN ACCORDANCE WITH THE COMMONWEALTH DISABILITY (ACCESS TO PREMISES - BUILDINGS) STANDARDS.
2. ALL ACCESS WORKS SHOULD BE IN ACCORDANCE WITH AS1428(SET) DESIGN FOR ACCESS AND MOBILITY SET. INCLUDING AS1428.1 DESIGN FOR ACCESS AND MOBILITY. GENERAL REQUIREMENTS FOR ACCESS - NEW BUILDING WORK.
3. ALL ACCESSIBILITY PARKING AREAS SHOULD BE IN ACCORDANCE WITH AS2890(SET) - PARKING FACILITIES SET. INCLUDING AS2890.5 ON STREET PARKING AND ALSO INCLUDING AS2890.6 PARKING FACILITIES OFF-STREET PARKING FOR PEOPLE WITH DISABILITIES.
4. DIRECTIONAL TACTILE GROUND SURFACE INDICATORS (DTG's) SHOULD BE IN ACCORDANCE WITH AS1428.4
5. ALL PEDESTRIAN SURFACE MATERIALS SHOULD BE IN ACCORDANCE WITH AS4586 - SLIP RESISTANCE CLASSIFICATIONS OF NEW PEDESTRIAN SURFACE MATERIALS

PAVEMENT MARKINGS-ROADWAYS AND CAR PARKS:

1. UNLESS LONG LIFE MARKING ARE SPECIFIED, PAVEMENT MARKINGS WILL GENERALLY BE PAINTED AND RETRO-REFLECTORISED, MAKING USE OF WATER-BORNE PAINTS, AND DROP-ON E20 GLASS BEADS. IF LONG LIFE MARKING ARE SPECIFIED, THESE SHALL BE INSTALLED IN ACCORDANCE WITH AUSTRROADS, STATE ROAD AUTHORITY AND MANUFACTURER GUIDE LINES.
2. UNLESS OTHERWISE APPROVED BY THE RELEVANT AUTHORITY, SOLVENT-BORNE CHLORINATED RUBBER PAINT MAY ONLY BE SUBSTITUTED FOR WATER-BORNE FOR INITIAL APPLICATIONS ON NEW SURFACES.
3. ALL PAINTS SHALL BE APPROVED UNDER THE AUSTRALIAN PAINT APPROVAL SCHEME (A.P.A.S.)
4. FOR INITIAL MARKINGS OF NEW SURFACES, PAINT SHALL COMPLY WITH THE REQUIREMENTS OF AS 4049.1 FOR SOLVENT-BORNE PAINT, OR AS/NSZS 4049.3 FOR WATER-BORNE PAINT.
5. GLASS BEADS SHALL BE USED ON ALL MARKINGS AND SHALL CONFORM WITH THE REQUIREMENTS FOR DROP-ON BEADS AS DESCRIBED IN AS/NSZS, EXCEPT THAT E20 BEADS SHALL BE ADOPTED FOR USE WITH 0.3mm MINIMUM DRY FILM THICKNESS (DFT) LINEMARKING APPLICATIONS OF WATER-BORNE PAINT.
6. FOR AREAS UNDER COUNCIL, STATE OR SIMILAR ROAD AUTHORITY CONTROL, PAVEMENT MARKINGS WILL COMPLY WITH AUSTRROADS GUIDES (GUIDE TO TRAFFIC MANAGEMENT), AS1742 (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES), AND RELEVANT SECTIONS OF AS2890 (PARKING FACILITIES). LINES FOR CAR PARKING BAYS WILL GENERALLY BE 100mm (-10mm, +0mm) WIDE. THE COLOUR OF THE PAINT USED TO DELINEATE CAR PARKING BAYS SHALL BE AS SPECIFIED BY THE RELEVANT STATE ROAD AUTHORITY.
7. FOR PRIVATE AREAS NOT UNDER EITHER COUNCIL, STATE OR OTHER ROAD AUTHORITY CONTROL, PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH AS 1742 AND RELEVANT SECTIONS OF AS 2890. LINES FOR CAR PARKING BAYS WILL GENERALLY BE 90mm (-10mm, +10mm) WIDE. THE COLOUR OF THE PAINT USED TO DELINEATE CAR PARKING BAYS SHALL CONTRAST WITH THE PAVEMENT COLOUR, OR SHALL ACCORD WITH THE SPECIFICATIONS OF THE RELEVANT STATE ROAD AUTHORITY.
8. NEW MARKINGS SHALL RECEIVE TWO APPLICATIONS OF PAINT. EACH APPLICATION TO PROVIDE A DRY FILM THICKNESS OF AT LEAST 0.3mm MINIMUM. THE SECOND APPLICATION SHALL BE APPLIED BETWEEN FOUR (4) AND EIGHT (8) WEEKS AFTER THE INITIAL APPLICATION. EACH APPLICATION OF PAINT SHALL ALSO INVOLVE THE APPLICATION OF GLASS BEADS.
9. GLASS BEADS SHALL BE APPLIED TO THE FRESHLY LAID PAINT TO PRODUCE A UNIFORM PROPERLY BONDED COVERAGE OVER THE WHOLE PAINTED SURFACE.
10. COMPLETED MARKINGS SHALL BE UNIFORM IN APPEARANCE FROM ALL ANGLES OF OBSERVATION, TEXTURE, WIDTH AND THICKNESS AND THE SURFACE SHALL BE FREE FROM STREAKS, OVERLAPS, UN-BEADED AREAS, TYRE MARKS AND OTHER DEFECTS. EDGES AND CUT-OFFS SHOULD BE NEAT AND SHARP. AND THERE SHALL BE NO VISIBLE RUN-OFF, OVERSPRAY, DRIBBLES, SPLASH OR SPILLAGE ONTO THE SURROUNDING AREA, OR ONTO PARKED OR PASSING VEHICLES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REMOVAL OF PAINTS FROM SUCH VEHICLES.
11. AS REQUIRED, THE RETRO-REFLECTIVITY OF INSTALLED PAVEMENT MARKINGS MAY BE ASSESSED IN ACCORDANCE WITH AUSTRROADS AND/OR STATE ROAD AUTHORITY GUIDELINES. PAVEMENT MARKINGS THAT FAIL TO SATISFY RETRO-REFLECTIVITY REQUIREMENTS WITHIN THE CONTRACTOR'S MAINTENANCE PERIOD SHALL BE RE-DONE AT NO EXTRA COST.

PATHWAYS:

1. PAVING TO EXTERNAL CONCRETE AREAS AND FOOTPATHS TO BE AS PER DETAIL DRAWING.
2. PROVIDE TOOL JOINTS AT 1200mm MAX. CENTRES IN BOTH DIRECTIONS & AT RE-ENTRANT CORNERS.
3. PROVIDE ABEL FLEX EXPANSION JOINTS AT 8400mm MAX. CENTRES, INTERSECTIONS AND CHANGES OF DIRECTIONS.
4. PATHWAYS ARE TO BE PROVIDED WITH UNIFORM CROSS FALL TO GRATE PITS WHERE PROVIDED OTHERWISE PROVIDE UNIFORM CROSS FALL AWAY FROM BUILDING AT 1:40 MAXIMUM GRADE.
5. REFER TO APPROVED ARCHITECTURAL DRAWINGS FOR ALL PATHWAY WIDTHS, EDGE DETAILING AND FINISHES.
6. LONGITUDINAL FALL TO BE MAXIMUM OF 1 IN 20.
7. STEP RAMPS WHERE REQUIRED ARE TO BE THE WIDTH OF MERGING PATHS WITH A GRADIENT NOT STEEPER THAN 1 IN 8.

CONCRETE STRENGTH MINIMUM REQUIREMENTS:

1. FOOTPATHS AND COURTYARDS32MPa
2. PITS25MPa
3. VEHICULAR CROSSING, DRIVEWAYS AND CAR PARKING32MPa
4. SUSPENDED SLABS, BEAMS AND STAIRS32MPa

COLOURED CONCRETE TO BE USED FOR ALL EXTERNAL PAVED AREAS AS REQUESTED BY ARCHITECT'S DRAWINGS AND SPECIFICATIONS

ASBESTOS WARNING NOTE:

1. PREVIOUS DOCUMENTATION AND CLARIFICATION FROM SITE INVESTIGATION TO THE AQUATIC FACILITIES MAIN FILTERED WATER RETURN PIPE HAS SHOWN THAT ASBESTOS PIPING WAS USED.
2. THE REMOVAL OF SAID ASBESTOS PIPEWORK SHALL BE PERFORMED BY A QUALIFIED REMOVALIST LICENCED IN COMPLIANCE WITH THE CODE OF PRACTICE ON HOW TO SAFELY REMOVE ASBESTOS BY SAFE WORK AUSTRALIA AND OTHER RELEVANT AUTHORITIES.

REMOVING ASBESTOS-CONTAMINATED SOIL:

3. ASBESTOS-CONTAMINATED SOIL COMPRISES NON-ATTACHED PIECES OF ASBESTOS CEMENT PRODUCTS AND OTHER MATERIAL CONTAINING ASBESTOS UNCOVERED IN SOIL DURING OTHER WORK ACTIVITIES. CONTAMINATION CAN BE DETECTED DURING BUILDING AND PAVEMENT CONSTRUCTION AND EXCAVATION, WASTE DISPOSAL, DAMAGE FOLLOWING A SEVERE WEATHER EVENT SUCH AS A HAIL STORM, WEATHERING OVER TIME, OR WHEN ASBESTOS IS POORLY HANDLED OR DAMAGED DURING REMOVAL JOBS.
4. A RISK ASSESSMENT BY AN INDEPENDENT LICENSED ASBESTOS ASSESSOR OR COMPETENT PERSON, INCLUDING CONTAMINATED SITE ASSESSMENT PRACTITIONERS, SHOULD DETERMINE THE MOST APPROPRIATE CONTROL MEASURES AND REMEDIATION STRATEGIES.
5. ASBESTOS-CONTAMINATED SOIL IS ALSO SUBJECT TO REQUIREMENTS OF OTHER REGULATORY AGENCIES SUCH AS THE EPA, PUBIC HEALTH AND LOCAL GOVERNMENTS, WHERE GUIDANCE ON THE ASSESSMENT AND REMEDIATION OF CONTAMINATED SITES IS SOUGHT, THE ASSESSMENT OF CONTAMINATED SITES NATIONAL ENVIRONMENTAL PROTECTION MEASURE (NEPM) SHOULD BE REFERRED TO. THE CONTAMINATED SITES NEPM IS PUBLISHED BY THE ENVIRONMENTAL PROTECTION HERITAGE COUNCIL (EPHC).
6. REMOVAL OF ASBESTOS FROM CONTAMINATED SOIL WILL REQUIRE A CLASS A LICENSED ASBESTOS REMOVALIST FOR ANY FRIABLE ASBESTOS TO BE REMOVED, OR A CLASS B LICENSED ASBESTOS REMOVALIST IF MORE THAN 10m² OF NON-FRIABLE ASBESTOS IS TO BE REMOVED. A PERSON WHO DOES NOT HAVE A LICENCE CAN REMOVE 10m² OR LESS OF NON-FRIABLE ASBESTOS. WHERE THERE IS UNCERTAINTY AS TO WHETHER THE AMOUNT OF NON-FRIABLE ASBESTOS IS MORE OR LESS THAN 10m², A CLASS A OR CLASS B LICENSED ASBESTOS REMOVALIST SHOULD BE ENGAGED.
7. FOR ALL ASBESTOS REMOVAL REQUIRING A CLASS A ASBESTOS REMOVAL LICENCE, AN AIR MONITORING PROGRAM MUST BE IMPLEMENTED TO ENSURE THE CONTROL MEASURES DO NOT RELEASE AIRBORNE ASBESTOS FIBRE. WHEN ALL VISIBLE ASBESTOS HAS BEEN REMOVED, AND THE AIR MONITORING PROGRAM INDICATES THAT THE LEVEL OF RESPIRABLE ASBESTOS FIBRES DOES NOT EXCEED 0.01 F/ML (10% OF THE ASBESTOS EXPOSURE STANDARD), THE INDEPENDENT LICENSED ASBESTOS ASSESSOR MUST COMPLETE THE CLEARANCE CERTIFICATE.
8. ALL ASBESTOS AND ANY CONTAMINATED SOIL REMOVED MUST BE DISPOSED OF AS ASBESTOS WASTE ACCORDING TO THE EPA AND THE REQUIREMENTS OF THE LOCAL LICENSED WASTE DISPOSAL FACILITY.

IMMEDIATE ACTION:

9. IF THE SOIL IS SUSPECTED OF CONTAINING ASBESTOS, THE PERSON WITH MANAGEMENT OR CONTROL OF THE WORKPLACE MUST ASSUME THE SOIL CONTAINS ASBESTOS AND CEASE WORK IMMEDIATELY. A COMPETENT PERSON SHOULD TAKE SAMPLES OF THE MATERIAL FOR ANALYSIS TO CONFIRM OR REFUTE THAT ASSUMPTION.
10. IF CONFIRMED, THE PERSON WITH MANAGEMENT OR CONTROL OF THE WORKPLACE MUST ENSURE CONTROL MEASURES ARE IMPLEMENTED TO MINIMISE THE RELEASE OF AIRBORNE ASBESTOS.
11. THE CONTROL MEASURES INCLUDE:

- PREPARATION OF AN ASBESTOS MANAGEMENT PLAN FOR THE SITE
- SETTING THE BOUNDARIES OF THE CONTAMINATION AS DETERMINED BY AN INDEPENDENT LICENSED ASBESTOS ASSESSOR OR COMPETENT PERSON
- ENSURING THERE IS MINIMAL DISTURBANCE OF THE CONTAMINATED SOIL UNTIL THE ASBESTOS MANAGEMENT PROCEDURES HAVE BEEN IMPLEMENTED
- ISOLATING AND SECURING THE REMOVAL WORK SITE USING SIGNS AND BARRIERS
- CONTROLLING DUST WITH DUST SUPPRESSION TECHNIQUES (SUCH AS WATER AND WETTING AGENTS)
- PROVIDING PPE BASED ON THE LEVEL OF CONTAMINATION AND THE CONTROL MEASURES IMPLEMENTED
- SAMPLING AND/OR AIR MONITORING
- PROVIDING EDUCATION AND TRAINING FOR WORKERS ON HAZARDS AND SAFE WORK PRACTICES TO MINIMISE AIRBORNE DUST EXPOSURE
- IMPLEMENTING DECONTAMINATION PROCEDURES FOR THE WORKERS AND THE EQUIPMENT.

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The Essential First Step.



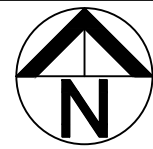
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DrawingTitle:  
CIVIL NOTES  
SHEET 2 OF 2

Client/Project:  
BOTANY AQUATIC CENTRE

Status:

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Project No:	Dwg No:	Revision:	Dwg Size:
S20_010	C003	P3	A1
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LEGEND

- : STAGE BOUNDARY
- ☼ : EXISTING TREE TO REMAIN
- ☼ : EXISTING TREE WITH PROTECTION ZONE (REFER STURT NOBLE DRAWINGS)
- ☼ : TREE PROTECTION ZONE (TPZ)
- ☼ : TREE TO BE REMOVED FOR CONSTRUCTION OF PROPOSED STAGE 1 DEVELOPMENT - REFER ARCH. DRG. DA111
- ☼ : ITEMS TO BE DEMOLISHED AS PART OF STAGE 1 DEVELOPMENT - REFER ARCH. DRG. DA111

NOTE:  
DEMOLISH EXISTING RAISED CONCRETE  
AND MAKE GOOD TO SUIT NEW CONCRETE  
ACCESS PATH TO PLANTROOM.

REFER TO CONCEPT STRUCTURAL NOTES:  
FOR TREE REMOVAL PROPOSALS &  
FOOTING PREPARATION NOTES.

NOTE:  
DEMOLISH FENCING AND BRICKWORK  
WALLS TO FOOTPATH AND  
SURROUNDING TODDLER POOL.

NOTE:  
EXISTING PUMP TO BE  
DECOMMISSIONED AND SET ASIDE  
FOR RE-USE OR SPARE PARTS.

GDA2020 ORIGIN  
SSM 122294  
E 338195.032 N 6242988.656  
RL  
AHD ORIGIN  
FM 296353 RL 6.051

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DrawingTitle:  
STAGE 1 DEMOLITION AND  
EXISTING SERVICES LAYOUT PLAN

Client/Project:  
BOTANY AQUATIC CENTRE

Status:

PRELIMINARY

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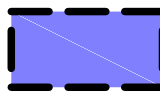
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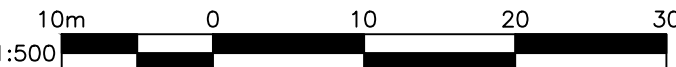
LEGEND



: APPROX. EXTENT OF FLOOD WATER  
INUNDATION ON SITE (REFER COUNCIL  
FLOOD MANAGEMENT REPORT)



NOTE:  
APPROX. FFL FOR PROPOSED BUILDING HAS  
BEEN CALCULATED USING LOWEST POINT IN  
THE VICINITY OF THE EXISTING 25m POOL:  
RL: 7.76AHD + 0.28m FLOOD + 0.50m FREEBOARD  
= 8.540AHD  
APPROX. FFL FOR PROPOSED PLANTROOM  
ADJACENT NORTHERN BOUNDARY FLOODING:  
RL: 7.40AHD + 0.10m FLOOD + 0.30m FREEBOARD  
= 7.800AHD



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The Essential First Step.



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Drawing Title:  
STAGE 1 PRE-DEVELOPMENT  
FLOOD CATCHMENT LAYOUT PLAN

Client/Project:  
BOTANY AQUATIC CENTRE

Status:

PRELIMINARY

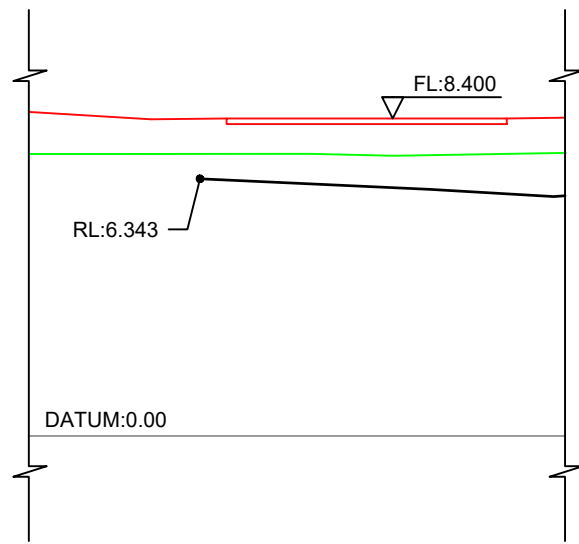


Project No:	Dwg No:	Revision:	Dwg Size:
S20_010	C006	P3	A1
Drawn:	Date:	Checked:	Scale:
JR	JAN21	ND	1:500

Rev:	Date:	Notes:	By:	Chkd:
P3	5.10.21	ISSUED FOR DA APPROVAL	JR	ND
P2	05.07.21	DA LODGEMENT RFI	JR	ND
P1	26.03.21	ISSUED FOR DA LODGEMENT	JR	ND



REFER TO CONCEPT STRUCTURAL NOTES:  
FOR TREE REMOVAL PROPOSALS &  
FOOTING PREPARATION NOTES.



PLANTROOM  
SECTION A-A

#### LEGEND

- STAGE BOUNDARY
- PLANTROOM - PROPOSED DESIGN LEVEL
- PLANTROOM - EXISTING SURFACE LEVEL
- PLANTROOM - EXISTING SAND & CONTAMINATION LEVEL
- PROPOSED STAGE 1 AREA OF FILL
- TREE PROTECTION ZONE (TPZ)



#### GENERAL NOTES:

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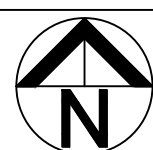


Drawing Title:  
STAGE 1  
EARTHWORKS PLAN

Client/Project:  
BOTANY AQUATIC CENTRE

Status:

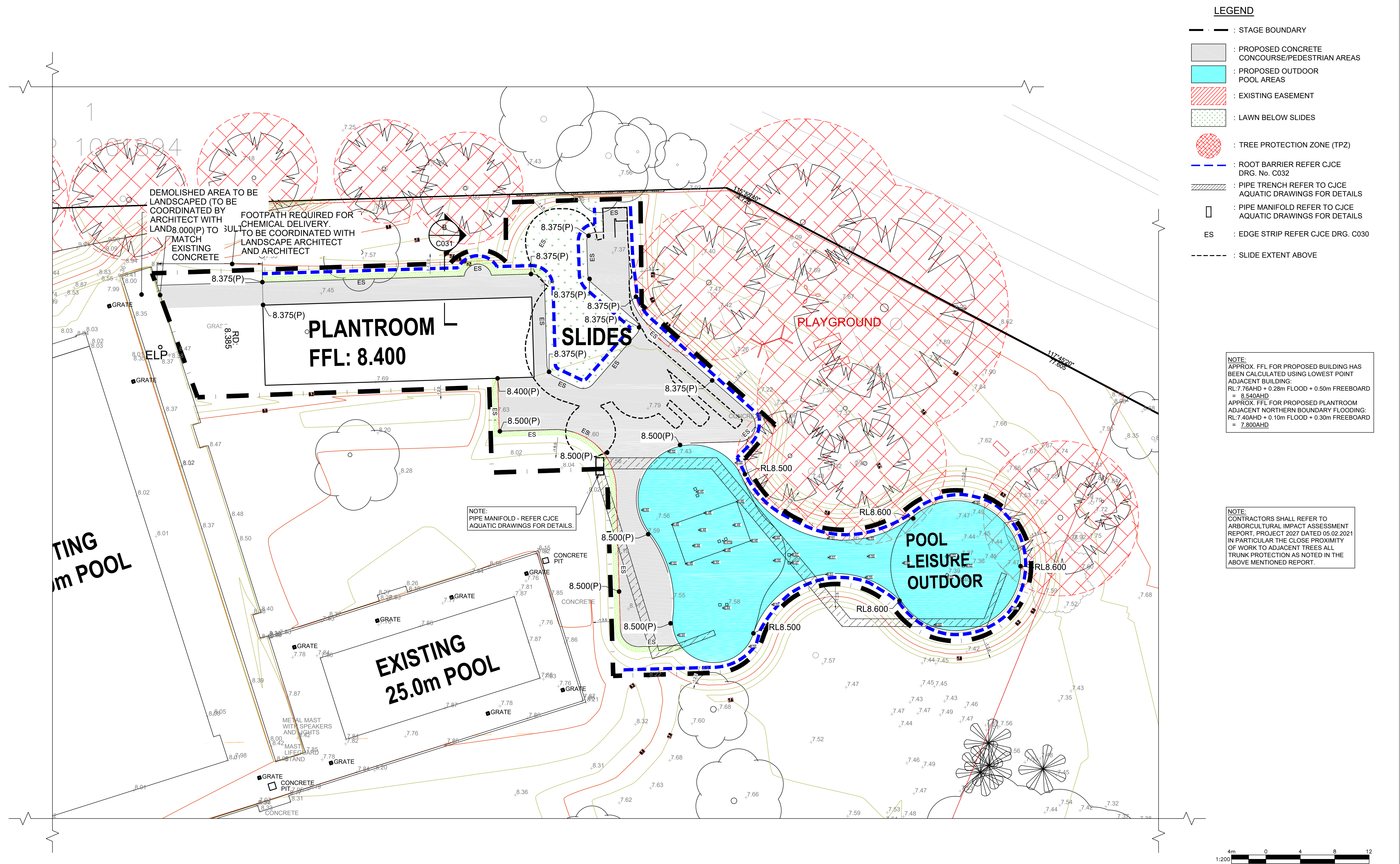
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Project No:	Dwg No:	Revision:	Dwg Size:
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Drawn:	Date:	Checked:	Scale:
JR	JUL20	ND	1:500

Rev:	Date:	Notes:	By:	Chkd:
P3	5.10.21	ISSUED FOR DA APPROVAL	JR	ND
P2	05.07.21	DA LODGEMENT RFI	JR	ND
P1	26.03.21	ISSUED FOR DA LODGEMENT	JR	ND





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3. ENGINEERING NOTES DRAWING AND SPECIFICATIONS.  
4. REPORT ANY DISCREPANCIES TO CRACKER/JACK CONSULTING ENGINEERS  
5. IMMEDIATELY.  
6. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER  
7. RELEVANT ARCHITECTS AND SUB-CONTRACTORS DRAWINGS AND DETAILS.  
8. ALL DIMENSIONS TO BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO  
9. CONSTRUCTION OR FABRICATION PROCEEDING.  
10. CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY TEMPORARY WORKS  
11. TO ENSURE THE EXISTING STRUCTURE IS MAINTAINED IN A STABLE  
12. CONDITION AND NO LOCALISED PART OF STRUCTURE IS OVERSTRESSED.

7. REFER TO ARCHITECT/ BUILDING DESIGNER DRAWINGS AND SPECIFICATIONS FOR SPECIFICATION OF FIRE RATED MATERIALS IN ACCORDANCE WITH THE CURRENT NCC.
8. CONTRACTOR TO COMMENT AND TAKE RESPONSIBILITY FOR BUILDABILITY OF PROPOSALS, ANY AND ALL ASSUMPTIONS TO BE LISTED AND COSTED AS SEPARATE LINE ITEMS FOR THE TRANSPARENCY DURING TENDER PERIOD. CITE THE CONTRACTOR'S ASSUMPTIONS FOR EACH ASSUMPTION. PERIOD. CITE THE CONTRACTOR'S NO RESPONSIBILITY FOR CONTRACTOR ASSUMPTIONS WHICH HAVE **NOT** BEEN CLARIFIED WITH THE DESIGN TEAM DURING THE TENDER PERIOD POST AWARD OF CONTRACT.



DrawingTitle:  
**STAGE 1**  
PAVEMENT LAYOUT PLAN

Client/Project:  
**BOTANY AQUATIC CENTRE**

Status:

## PRELIMINARY

Project No:  
S20\_010

Dwg No:  
C015

Revision:  
P3

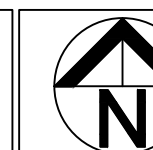
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A1

Drawn:  
JR

Date: JUL 20

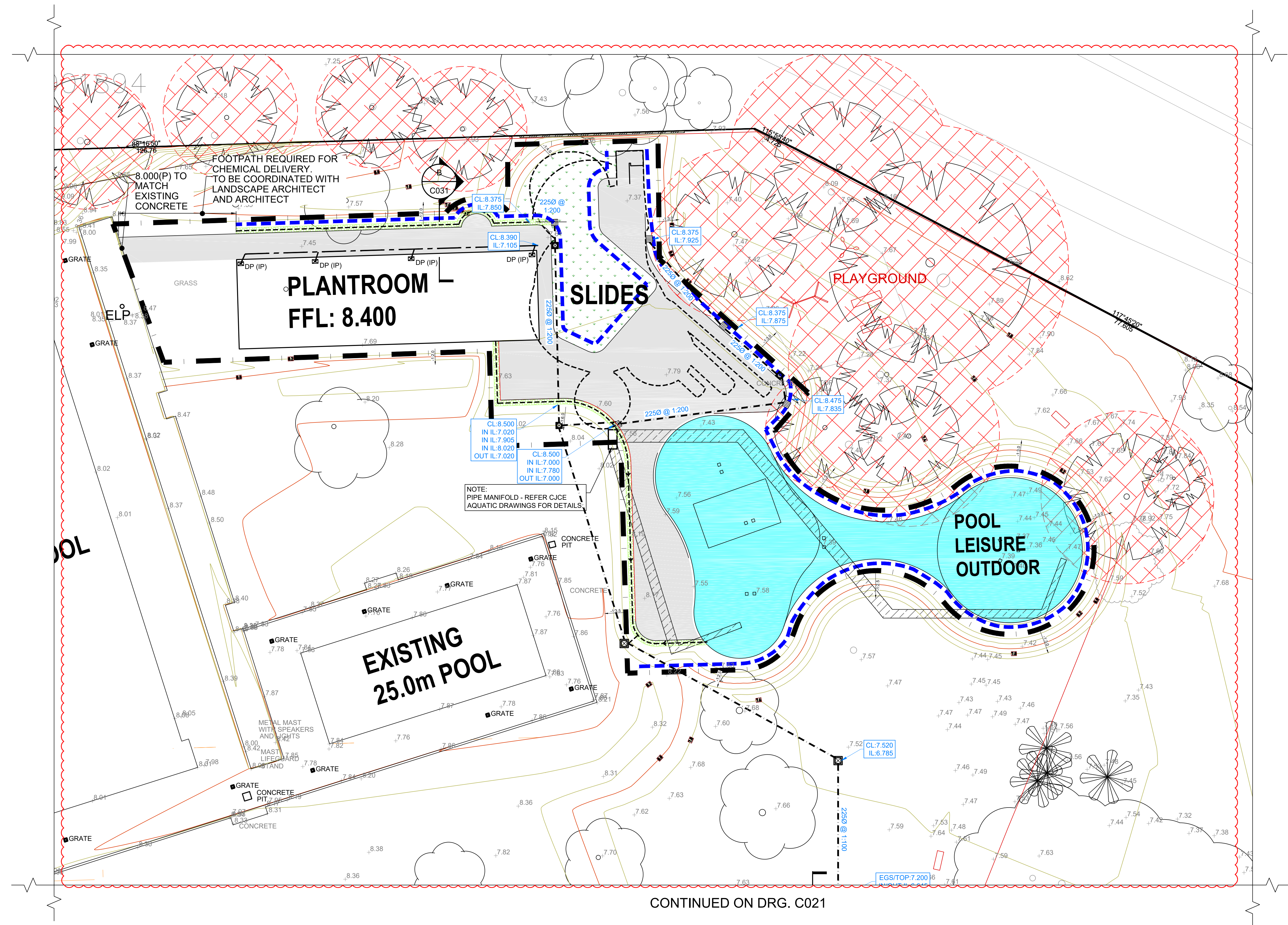
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P3	5.10.21	ISSUED FOR DA APPROVAL						JR	ND
P2	05.07.21	DA LODGEMENT RFI						JR	ND
P1	26.03.21	ISSUED FOR DA LODGEMENT						JR	ND
Rev:	Date:	Notes:						By:	Chkd:





- LEGEND**
- : STAGE BOUNDARY
  - - - : PROPOSED STORMWATER DRAIN (DIA's SHOWN INDICATIVE ONLY)
  - : GRATED INLET PIT/JUNCTION BOX REFER CJCE DRG. No. C031
  - ⊗ : TREE PROTECTION ZONE (TPZ)
  - - - : ROOT BARRIER REFER CJCE DRG. No. C032
  - ⊙ : RAINWATER TANK FOR RE-USE - TO BE CONFIRMED BY HYDRAULIC CONSULTANT
  - ▨ : PIPE TRENCH REFER TO CJCE AQUATIC DRAWINGS FOR DETAILS
  - : PIPE MANIFOLD REFER TO CJCE AQUATIC DRAWINGS FOR DETAILS
  - ▨ : SWALE/ RETENTION BASIN. REFER TO CJCE DRG. No. C031 FOR DETAILS.
  - ⊕ : REHYDRATION CORES REFER CJCE DRG. No. C031
  - - - : SLIDE EXTENT ABOVE
  - DP (IP) : DOWNPIPE WITH INSPECTION POINT

NOTE:  
LOCATION OF RWT AND DOWNPIPE LAYOUT TO ACCOMMODATE THE NEW PLANTROOM SIZE TO BE CONFIRMED BY HYDRAULIC CONSULTANT.

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Drawing Title:  
**STAGE 1  
STORMWATER LAYOUT PLAN**

Client/Project:  
**BOTANY AQUATIC CENTRE**

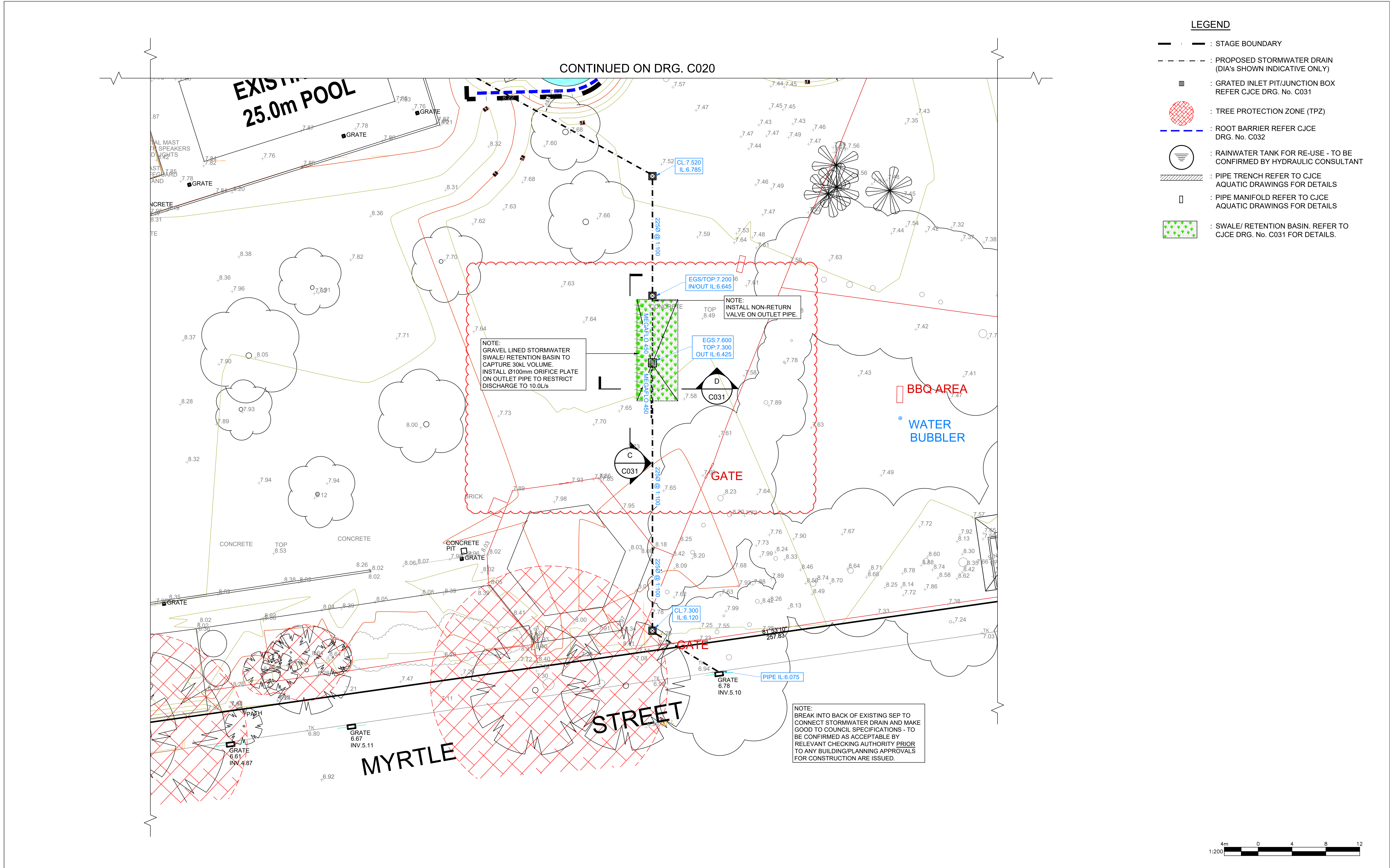
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Project No:	Dwg No:	Revision:	Dwg Size:
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Drawn:	Date:	Checked:	Scale:
JR	JUL20	ND	1:200



P3	5.10.21	ISSUED FOR DA APPROVAL	JR	ND					
P2	05.07.21	DA LODGEMENT RFI	JR	ND					
P1	26.03.21	ISSUED FOR DA LODGEMENT	JR	ND					
Rev:	Date:	Notes:	By:	Chkd:					





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**CRACKERJACK**  
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Drawing Title:  
**STAGE 1  
STORMWATER LAYOUT PLAN**

Client/Project:  
**BOTANY AQUATIC CENTRE**

Status:  
**PRELIMINARY**

Project No: <b>S20_010</b>	Dwg No: <b>C021</b>	Revision: <b>P3</b>	Dwg Size: <b>A1</b>
Drawn: <b>JR</b>	Date: <b>JUL20</b>	Checked: <b>ND</b>	Scale: <b>1:200</b>

P3	5.10.21	ISSUED FOR DA APPROVAL	JR	ND
P2	05.07.21	DA LODGEMENT RFI	JR	ND
P1	26.03.21	ISSUED FOR DA LODGEMENT	JR	ND
Rev:	Date:	Notes:	By:	Chkd:

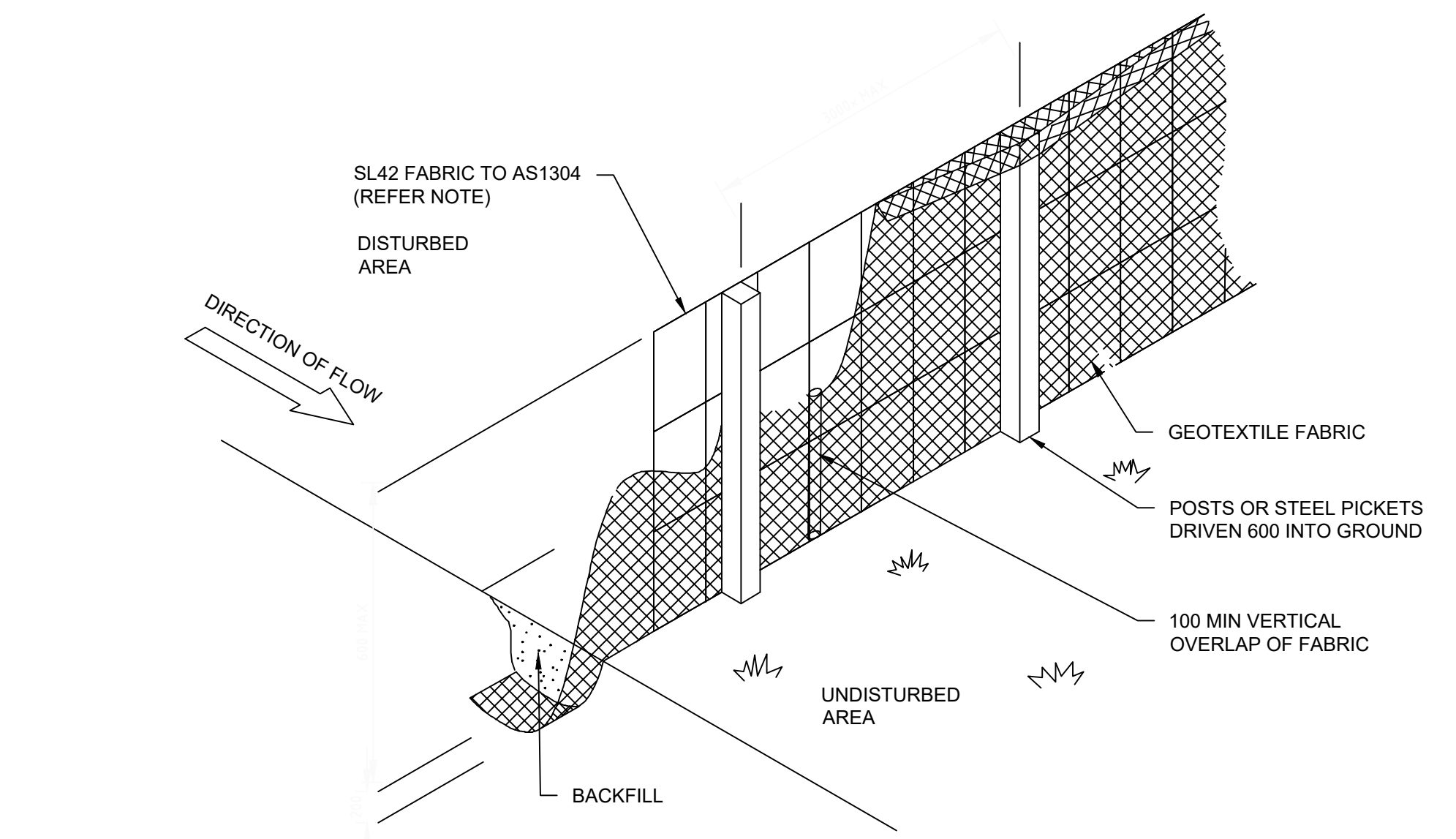




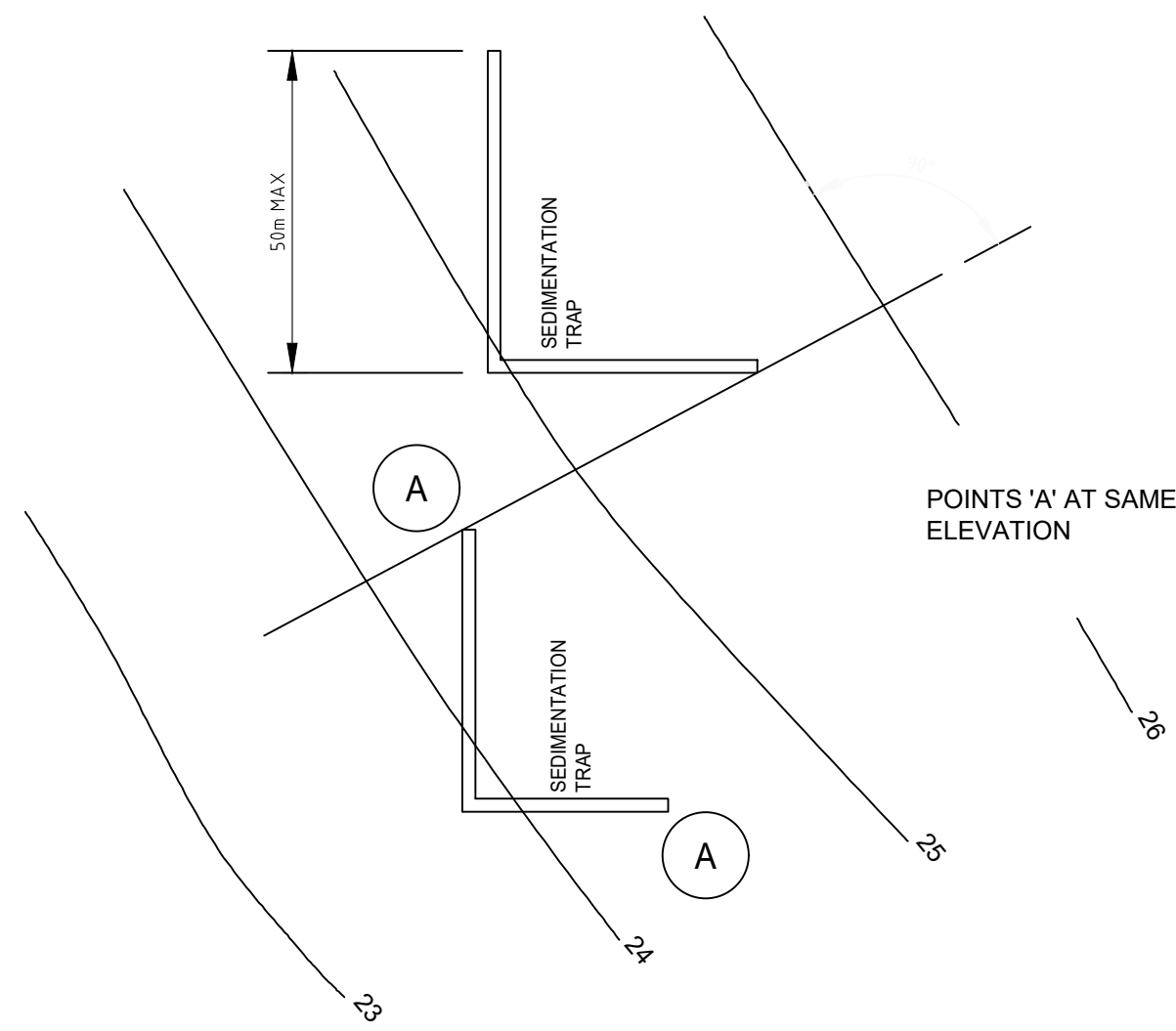








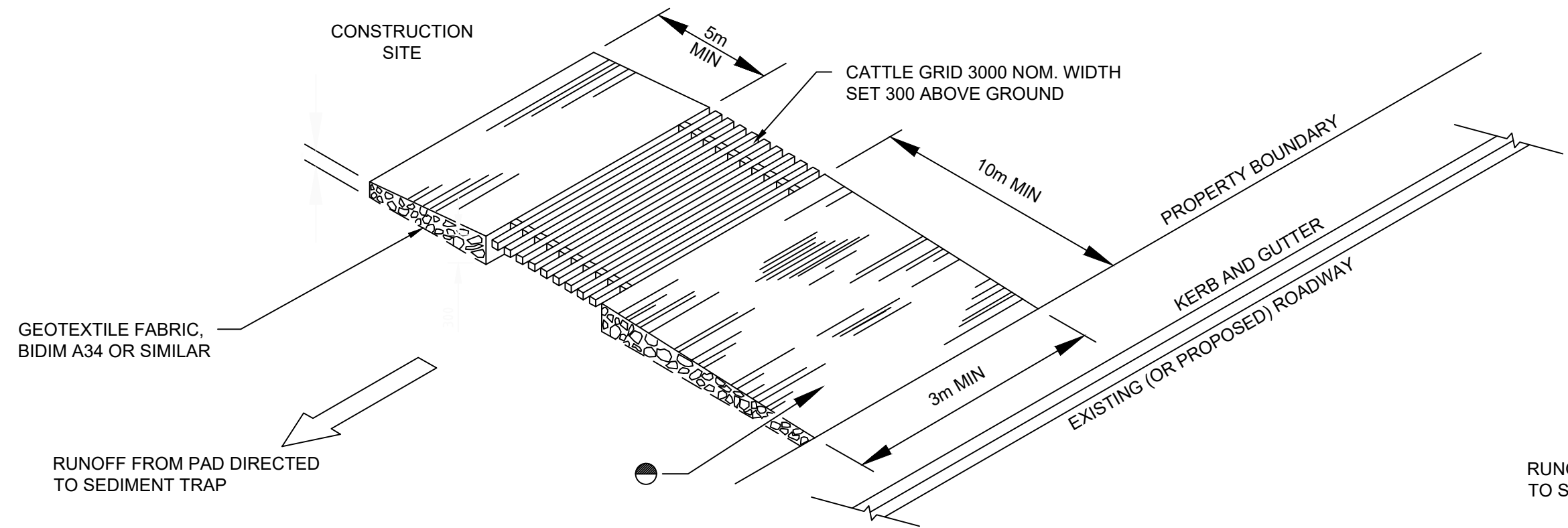
ELEVATION



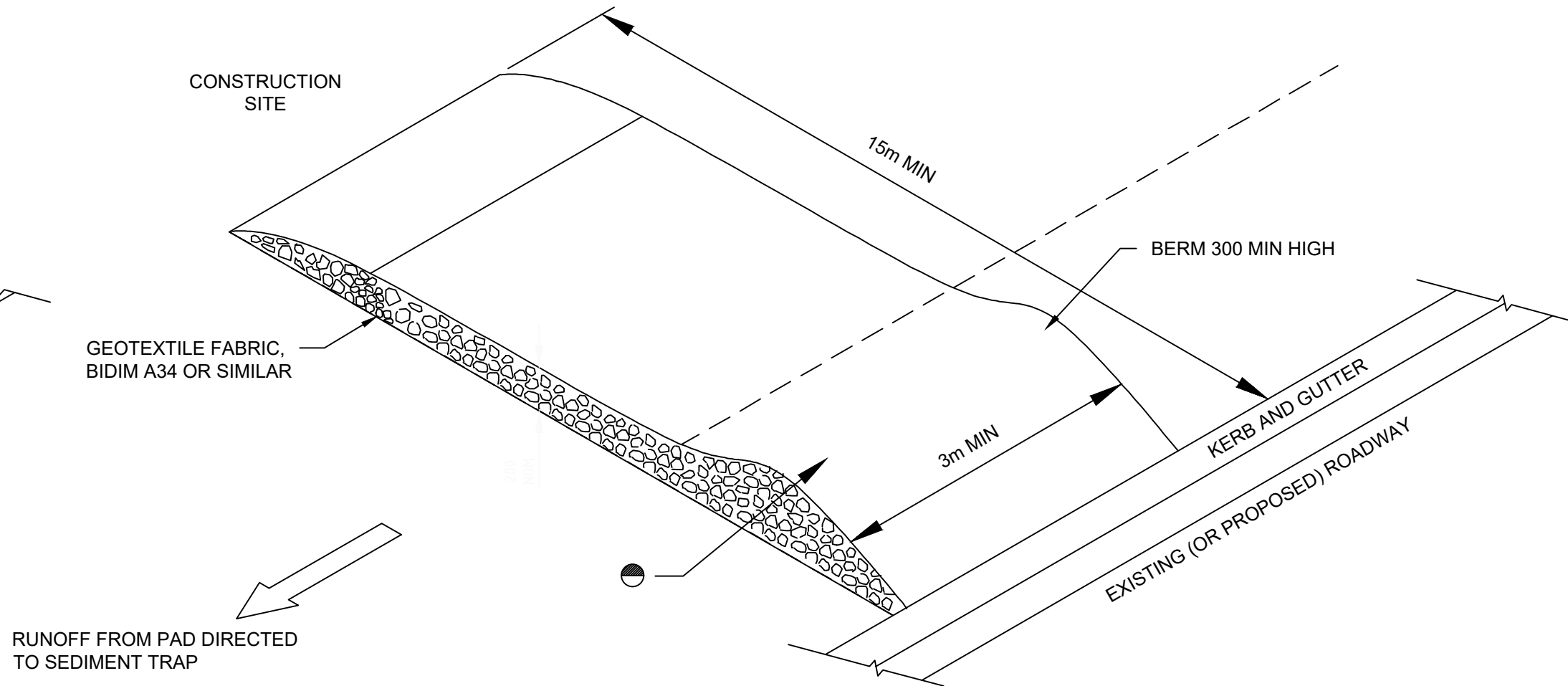
TYPICAL LAYOUT ACROSS GRADE

LEGEND

- APPROVED UNBOUND PAVEMENT MATERIAL (GRAVEL)  
EXCLUDE MATERIAL FINER THAN AS SIEVE 2.36mm
- SL42 FABRIC MAY BE OMITTED IF POST SPACING  
IS LESS THAN 2000 MAX



ALTERNATIVE 1 TYPICAL DETAIL



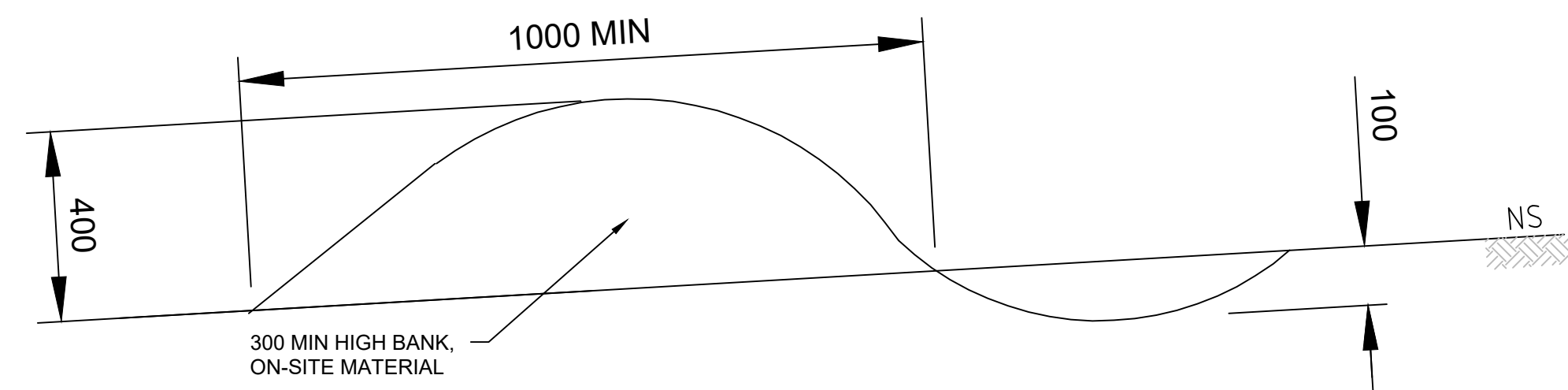
ALTERNATIVE 2 TYPICAL DETAIL

NOTES:

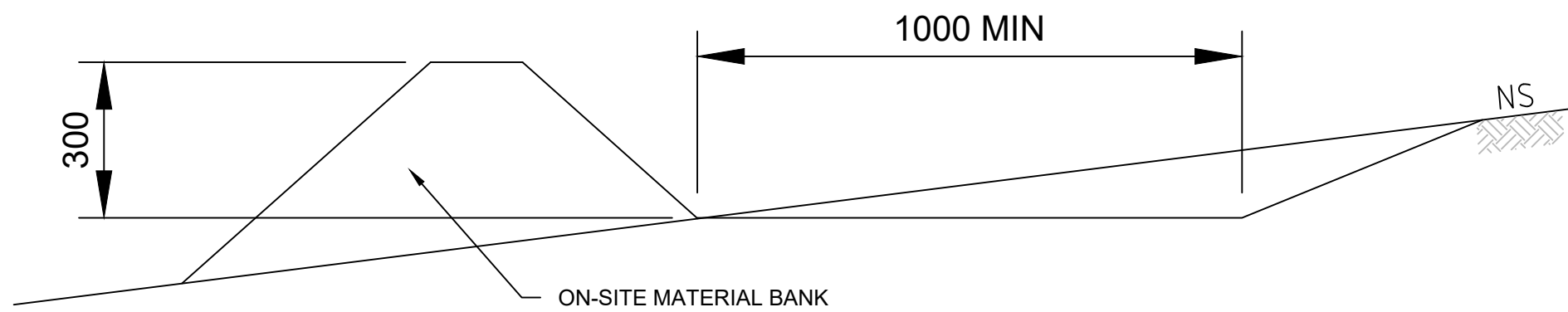
- GENERAL:
  - SEDIMENT CONTROL STRUCTURES SHOWN ON THIS DRAWING ARE TYPICAL ONLY. CONTRACTOR TO SUBMIT DETAIL DRAWINGS SHOWING LOCATION AND TYPE OF STRUCTURE PROPOSED.
  - TEMPORARY DRAINAGE CONTROL. FLOWS SHOULD BE DIVERTED AROUND THE WORKSITE WHERE POSSIBLE.
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND BE OPERATIONAL BEFORE UP-SLOPE EARTHWORKS.
  - ALL CONTROL MEASURES TO BE INSPECTED AT LEAST WEEKLY AND AFTER SIGNIFICANT RUNOFF PRODUCING STORMS.
  - CONTROL MEASURES MAY BE REMOVED WHEN ON-SITE EROSION IS CONTROLLED AND 70% PERMANENT SOIL COVERAGE IS OBTAINED OVER ALL UPSTREAM DISTURBED LAND.
  - IN AREAS WHERE RUNOFF TURBIDITY IS TO BE CONTROLLED, EXPOSED SURFACE TO BE EITHER MULCHED, COVERED WITH EROSION CONTROL BLANKETS OR TURFED IF EARTHWORKS ARE EXPECTED TO BE DELAYED FOR MORE THAN 14 DAYS.
  - HAY BALE SEDIMENT TRAPS ARE A SECONDARY OPTION THAT GENERALLY SHOULD NOT BE USED IF OTHER OPTIONS ARE AVAILABLE.
  - ALL VEGETATION ON THE SITE IS TO BE SLASHED.
  - EROSION AND SEDIMENT CONTROLS ARE DESIGNED TO OPERATE UP TO AND INCLUDING THE 10 YEAR ARI STORM EVENT.
  - ALL EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION (THE BLUE BOOK) [LANDCOM, 2004].
- SEDIMENT FENCE:
  - NOT TO BE LOCATED IN AREAS OF CONCENTRATED FLOW.
  - NORMALLY LOCATED ALONG THE CONTOUR WITH A MAXIMUM CATCHMENT AREA 0.6 ha PER 100m LENGTH OF FENCE.
  - WOVEN FABRICS ARE PREFERRED, NON-WOVEN FABRICS MAY BE USED ON SMALL WORK SITES, I.E. OPERATIONAL PERIOD LESS THAN 6 MONTHS OR ON SITES WHERE SIGNIFICANT SEDIMENT RUNOFF IS NOT EXPECTED.
  - WHERE FENCES NEED TO BE LOCATED ACROSS THE CONTOUR THE LAYOUT SHALL CONFORM TO 'TYPICAL LAYOUT ACROSS GRADE'.
  - FENCES ARE REQUIRED 2m MIN FROM TOE OF CUT OR FILL BATTERS, WHERE NOT PRACTICAL, ONE FENCE CAN BE AT THE TOE WITH A SECOND FENCE 1m MIN AWAY. FENCE SHOULD NOT BE LOCATED PARALLEL WITH TOE IF CONCENTRATION OF FLOW WILL OCCUR BEHIND FENCE.
- TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP:
  - ADJACENT STORMWATER RUNOFF TO BE DIVERTED AWAY FROM ENTRY/EXIT.
  - WHEEL-WASH OR SPRAY UNIT MAY BE REQUIRED DURING WET WEATHER.
- SEDIMENT BASINS:
  - ANALYSIS OF THE SITE, INCLUDING CATCHMENTS, SOIL TYPE AND HYDROLOGIC GROUP, AND SITE-SPECIFIC SOIL ERODIBILITY AND RAINFALL EROSIONIVITY FACTORS, INDICATES THAT THE ANNUAL LOSS FROM THE TOTAL DISTURBED AREA IS SUFFICIENTLY LOW ENOUGH TO NEGATE THE NEED FOR ANY SEDIMENT BASINS.
  - PROPOSED BIOTENTION BASINS ARE TO BE LINED WITH A TEMPORARY IMPERMEABLE GEOTEXTILE LINER FOR THE DURATION OF THE WORKS TO ENSURE THE FILTER MEDIUM IS NOT OVERLOADED DURING THE CONSTRUCTION PERIOD. THIS LINER MAY BE REMOVED ON COMPLETION OF THE WORKS ALONG WITH ANY ACCUMULATED SEDIMENT.
  - RECEIVING WATERS ARE TO BE PROTECTED FROM SEDIMENT AS PER THE SOIL AND WATER MANAGEMENT PLAN.
- VARIATIONS IN CONSTRUCTION PROCESS:

AS PER THE BLUE BOOK, A REVISED SOIL AND WATER MANAGEMENT PLAN MIGHT BE REQUIRED WHERE:

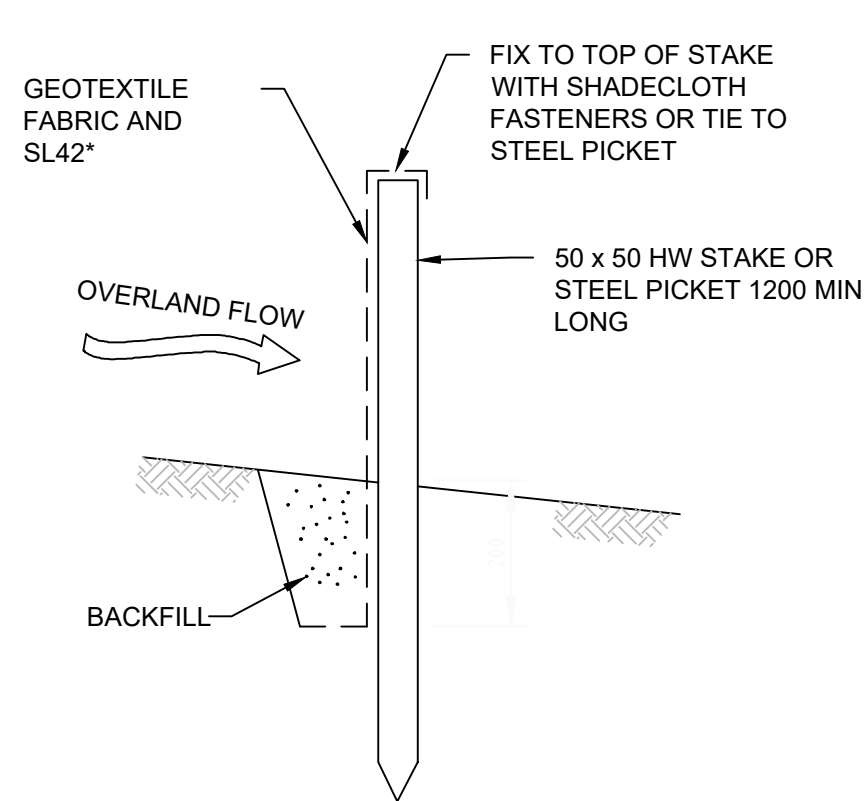
  - CHANGES OCCUR IN SLOPE GRADIENTS AND DRAINAGE PATHS, WITH THEIR EXACT FORM FREQUENTLY UNPREDICTABLE BEFORE WORKS START;
  - WORKS CONTINUE OVER AN EXTENDED PERIOD, WITH REVISIONS BEING REQUIRED AT THE BEGINNING OF THE SECOND YEAR OF OPERATIONS AND FURTHER REVISIONS AT TWO-YEARLY INTERVALS AFTER THAT; ANY REVISED PLANS SHOULD REFLECT REASONABLE NEW STANDARDS APPLYING TO THEM, AND THE DESIRED OUTCOME (E.G. PROTECTION OF RECEIVING WATERS) IS CLEARLY NOT BEING ACHIEVED. THIS PLAN IS ONLY PART OF THE STRATEGY, WITH OTHER ASPECTS BEING APPROPRIATE IMPLEMENTATION, MONITORING AND CORRECTIVE ACTION.
- SAFETY ISSUES MUST BE CONSIDERED AT ALL TIMES, INCORPORATE TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT.
- ALL DIMENSIONS IN MILLIMETRES UNLESS INDICATED OTHERWISE.



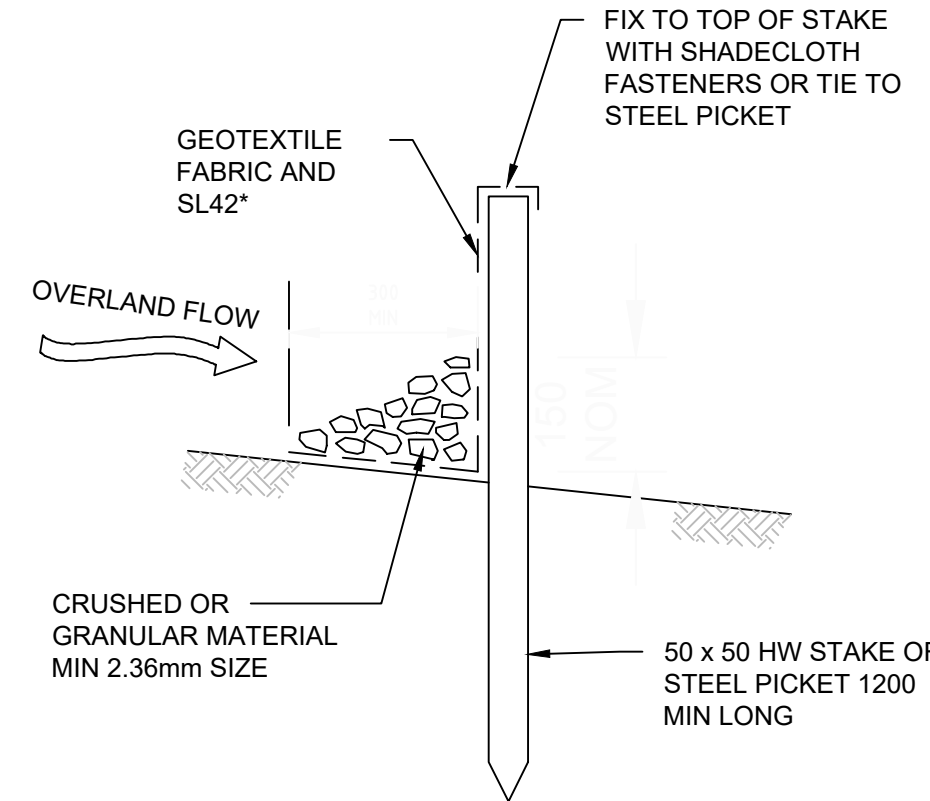
EARTH DIVERSION BANK



ALTERNATIVE EARTH DIVERSION DRAIN



ALTERNATIVE 1 TYPICAL SECTION



ALTERNATIVE 2 TYPICAL SECTION

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Drawing Title:  
CIVIL DETAILS  
SHEET 3 OF 3

Client/Project:  
BOTANY AQUATIC CENTRE

Status:

PRELIMINARY



Project No:	Dwg No:	Revision:	Dwg Size:
S20_010	C032	P3	A1
Drawn:	Date:	Checked:	Scale:
JR	JUL20	ND	1:10

Rev:	Date:	Notes:	By:	Chkd:
P3	5.10.21	ISSUED FOR DA APPROVAL	JR	ND
P2	05.07.21	DA LODGEMENT RFI	JR	ND
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