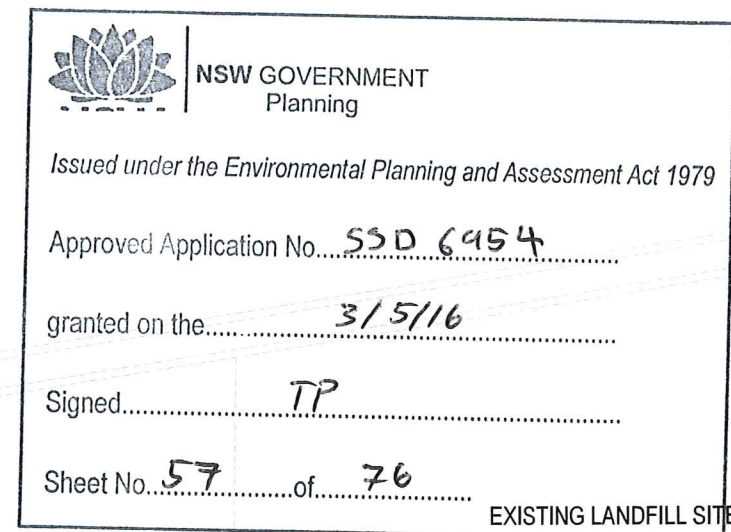




Revisions							
01	PW	DHG	GW	PG	13/10/2015	FOR DEVELOPMENT APPLICATION	
00	PW	DHG	PG	PG	30/06/2015	FOR DEVELOPMENT APPLICATION	
First Issue	PW	DHG	PG	PG	30/06/2015	Revision Details	
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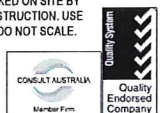


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FIEAustL CPEng, Manager – Urban
Development
SIGN:

DATE:

Client:	MARSDEN PARK DEVELOPMENT PTY. LTD.
Project:	MARSDEN PARK INDUSTRIAL STAGE 3.01 BASIN B DESIGN



Drawing Title:				
GENERAL LAYOUT AND CATCHMENT PLAN				
Project No.:	Stage:	Milestone:	Dwg No.:	Revision:
X11227.23W	3.01	DA	001	01

GENERAL NOTES

GENERAL

- G1 ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S ENGINEERING DESIGN, ENGINEERING CONSTRUCTION SPECIFICATION AND TO THE REQUIREMENTS OF THE PRINCIPAL CERTIFYING AUTHORITY/ROADS AUTHORITY.
- G2 INSPECTIONS BY PRINCIPAL CERTIFYING AUTHORITY SHALL BE REQUESTED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO THE CONTINUANCE OF ANY WORK:
- (a) FOLLOWING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES
- (b) PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS AND DAMS.
- (c) PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER BUT FOLLOWING THE PLACEMENT OF FOOTINGS, FORMWORK AND REINFORCEMENT.
- (d) PRIOR TO PLACEMENT OF SUBBASE AND ALL SUBSEQUENT PAVEMENT LAYERS, A PROOF ROLLER TEST OF EACH PAVEMENT LAYER IS REQUIRED.
- (e) FORMWORKS PRIOR TO POURING CONCRETE IN PARKING AREAS FOR FOOTPATH CROSSING AND ASSOCIATED WORK.
- (f) PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES.
- (g) FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND 'WORK AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL.
- G3 MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS
- G4 NO WORK TO BE CARRIED OUT ON ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER.
- G5 VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G6 ALL RUBBISH, BUILDINGS, SHEDS, AND FENCES ARE TO BE REMOVED TO THE SATISFACTION OF THE PRINCIPAL CERTIFYING AUTHORITY/ROADS AUTHORITY.

EARTHWORKS

- E1 EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE PRINCIPAL CERTIFYING AUTHORITY. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE, WITH THE SUPERINTENDENT, COMPACTION TESTING FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- E2 COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 98% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS 1289.5.1.1.
- E3 THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1288.5.8.2 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
- E4 THE SUBDIVISIONAL GEOTECH ACCREDITED CERTIFIER, SHALL HAVE RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS' AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
- E5 IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL.
- E6 ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST THE ADHESION OF TOP SOIL TO BATTER FACE.
- E7 PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL WITHIN FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 2 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- E8 THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PROVIDED BY LANDCOM.
- E9 A CONTINUOUS STRIP OF COUCH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, MAINTAINED AND REPLACED AS A REQUIREMENT DURING THE CONSTRUCTION MAINTENANCE PERIOD.
- E10 REFER TO SALINITY INVESTIGATION AND MANAGEMENT PLAN PREPARED BY DOUGLAS PARTNER DATED JUNE 2015 FOR SALINITY CONTROL MEASURES.

ROADWORKS

- R1 SUBGRADES AND SUBBASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
- R2 SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE)
- R3 LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS WHERE REQUIRED BY COUNCIL.
- R4 SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING ENDEAVOUR ENERGY, TELSTRA, SYDNEY WATER AND JEMENA.
- R5 PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS TO NOT DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.
- R6 CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
- R7 ALL PERMANENT ROADS MUST BE SEALED WITH 50mm OF AC TO BE APPLIED IN TWO 25mm THICK LAYERS. THE FINAL AC IS TO BE BONDED WITH COUNCIL AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- R8 SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS 1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 'RETRO-REFLECTIVE DEVICES AND MATERIALS FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING.
- R9 ALL LOT NUMBERS AND STREET NAMES TO BE STENCILED ON KERB FACE.
- R10 STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE OWNER/APPLICANT/SUPERINTENDENT. STREET NAMES MUST BE STENCILED ON KERB AT INTERSECTIONS.
- R11 ALL LIGHT POLES, STREET NAME POLES AND BUS SHELTERS IN THE SUBDIVISION WILL BE BLACK POWDER COATED TO THE SATISFACTION OF BLACKTOWN CITY COUNCIL.

DRAINAGE

- S1 ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED & CLASS 2, UNLESS OTHERWISE NOTED.
- S2 ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S3 DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED AT ALL DOWNSTREAM PITS.
- S4 ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS. ALL KERB INLET PITS TO BE CAST-IN-SITU.
- S5 ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2 METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- S6 CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S7 CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY PRINCIPAL CERTIFYING AUTHORITY/ROADS AUTHORITY.
- S8 ALL INTERALLOTMENT DRAINAGE LINES MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY/ROADS AUTHORITY.
- S9 ALL INTERALLOTMENT DRAINAGE LINES ARE TO BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS ARE TO BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- S10 INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTERALLOTMENT DRAINAGE LINES.
- S11 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORK AS EXECUTED' DRAWINGS
- S12 ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCILS REQUIREMENTS.

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Approved Application No. S3D 6454

granted on the 3/5/16

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Sheet No. 58 of 76

LEGEND

DESCRIPTION	PROPOSED	EXISTING	FUTURE
STORMWATER PIPELINE			
STORMWATER DRAINAGE PITS			
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10			
CONCRETE HEADWALL			
SUBSOIL DRAIN			
STANDARD 150mm KERB AND GUTTER			
STANDARD ROLL KERB AND GUTTER			
STANDARD KERB ONLY			
STANDARD EDGE STRIP			
STANDARD MOUNTABLE KERB			
STANDARD DISH CROSSING			
VEHICULAR CROSSING			
PERAMBULATOR RAMP			
EDGE OF BITUMEN			
ROAD PAVEMENT			
BENCHMARK			
BATTERS			
CONCRETE PATHWAY			
CONTOURS			
SITE REGRADING AREA			
SERVICE LINES SEWER, GAS, WATER, ELECTRICITY			
COMMUNICATION LINES TELSTRA, OPTUS FIBER			
OVER HEAD LINES AND POLES			
SERVICE PITS TELECOM PIT, ACCESS CHAMBER, HYDRANT, STOP VALVE, AIR VALVE			
LIMIT OF CONSTRUCTION			
LIMIT OF STAGE			
FENCE POST AND RAIL FENCE SECURITY FENCE			
LOT NUMBERS			
TREES TO REMOVE			
TREES			
RETAINING WALL			
ROCK WALL			

FOR DEVELOPMENT APPLICATION

Revisions										Disclaimer and Copyright: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY © Calibre Consulting Pty Ltd CONSULT AUSTRALIA MapData Firm Quality System Quality Endorsed Company Authorised for Issue: By: STUART GREEN FIE Aust. CP Eng. Manager – Urban Development SIGN: _____ DATE: _____ Client: MARSDEN PARK DEVELOPMENT PTY. LTD. Project: MARSDEN PARK INDUSTRIAL STAGE 3.01 BASIN B DESIGN © 2015  www.calibreconsulting.co Drawing Title: STANDARD NOTES AND LEGEND Project No.: X11227.23W Stage: 3.01 Milestone: DA Dwg No.: 002 Revision: 01										
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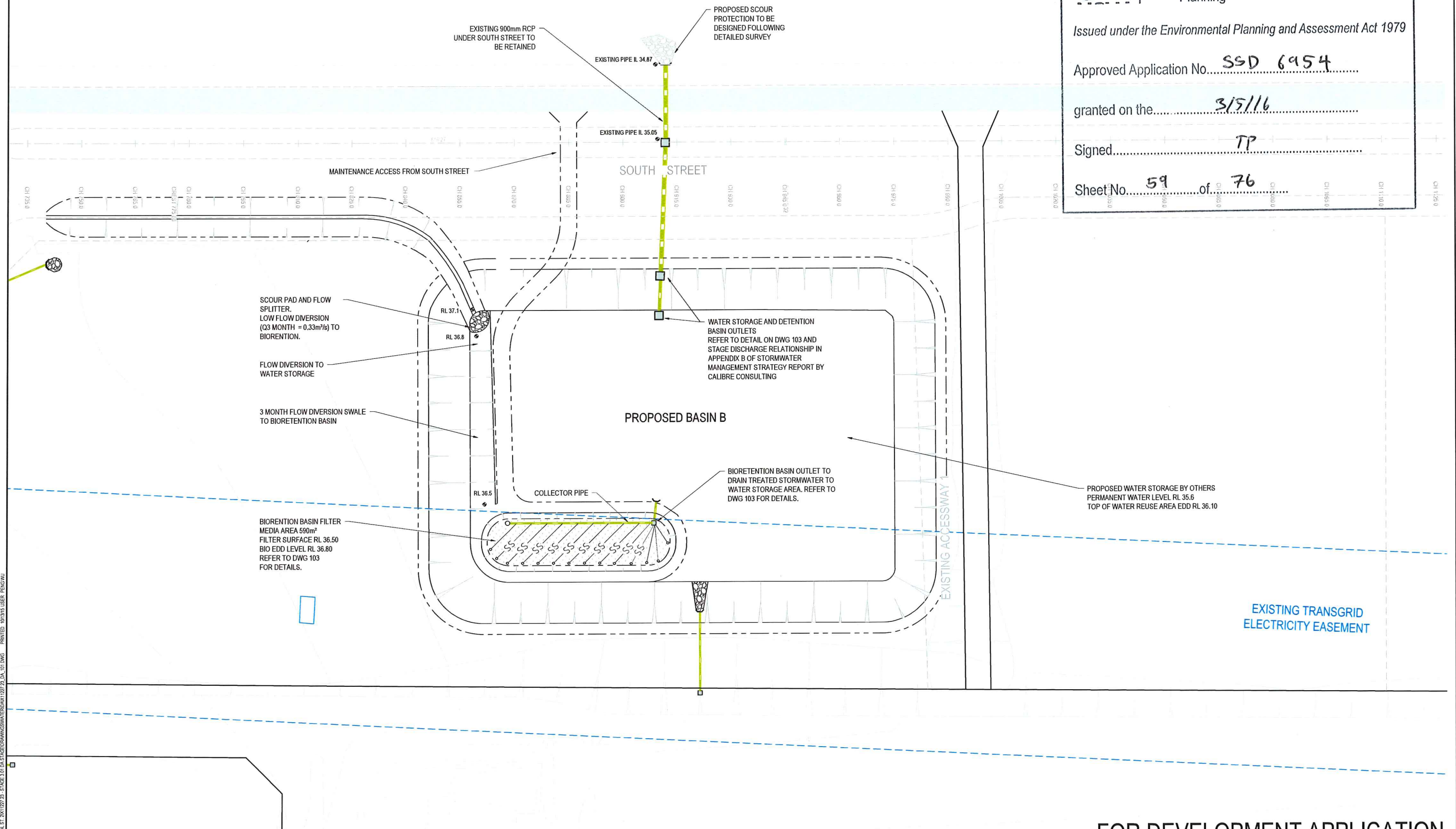
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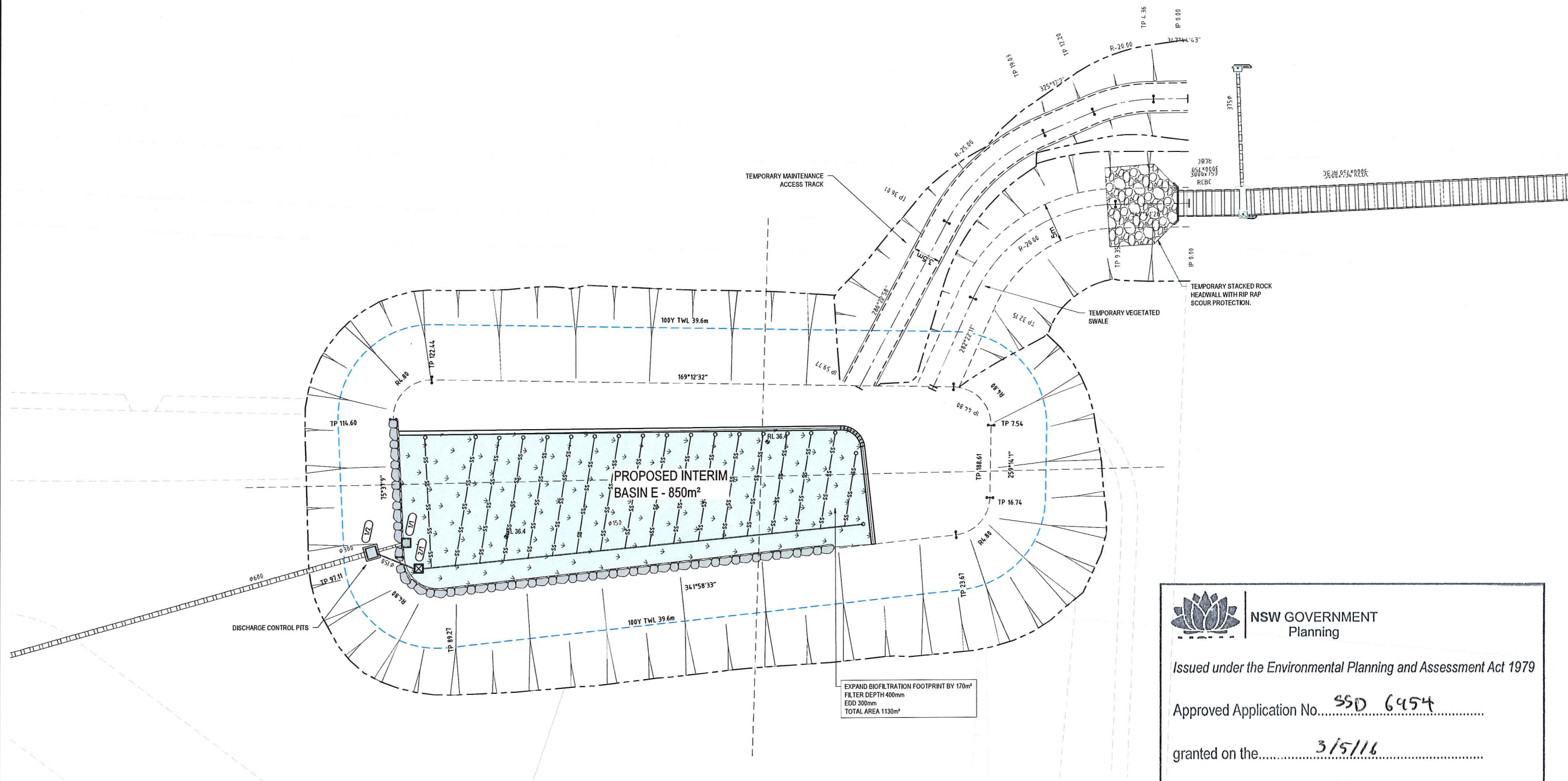


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Development
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Project:
**MARSDEN PARK INDUSTRIAL
STAGE 3.01 BASIN B DESIGN**



Drawing Title:
BIOWETENTION BASIN B PLAN
Project No.: **X11227.23W**
Stage: **3.01**
Milestone: **DA**
Dwg No.: **101**
Revision: **01**



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Revisions									
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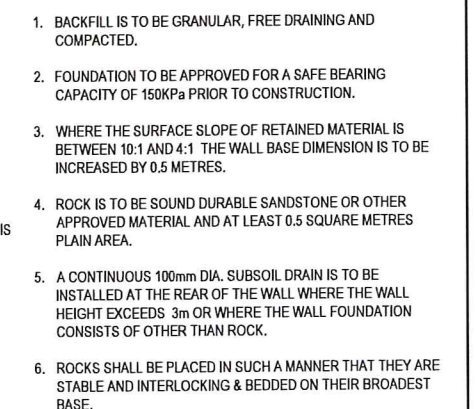
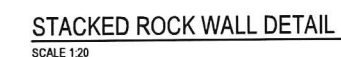
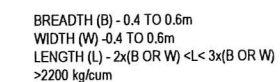
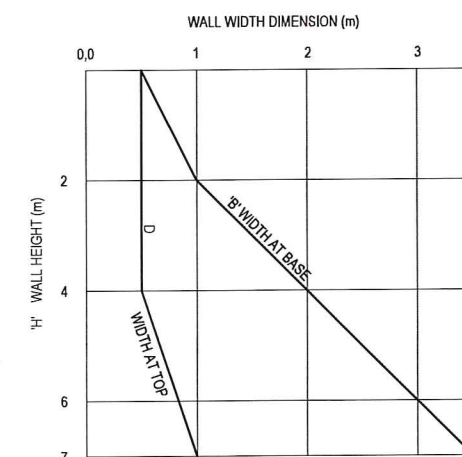
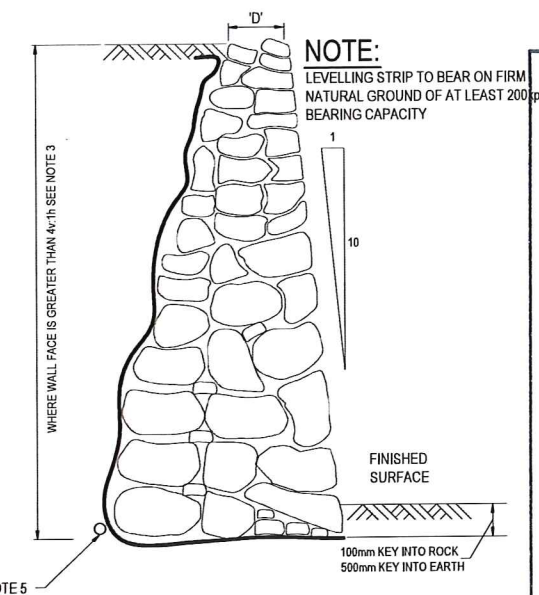
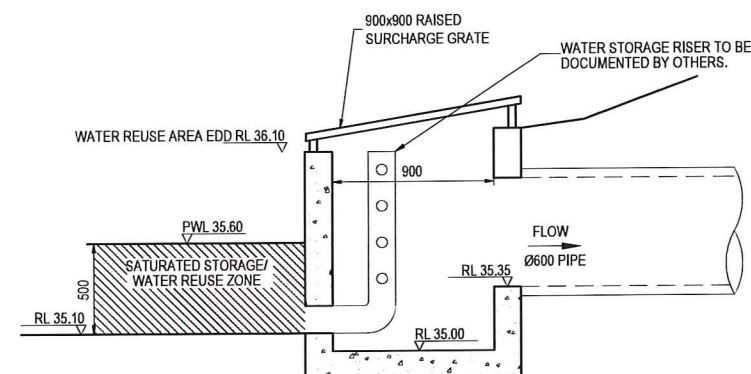
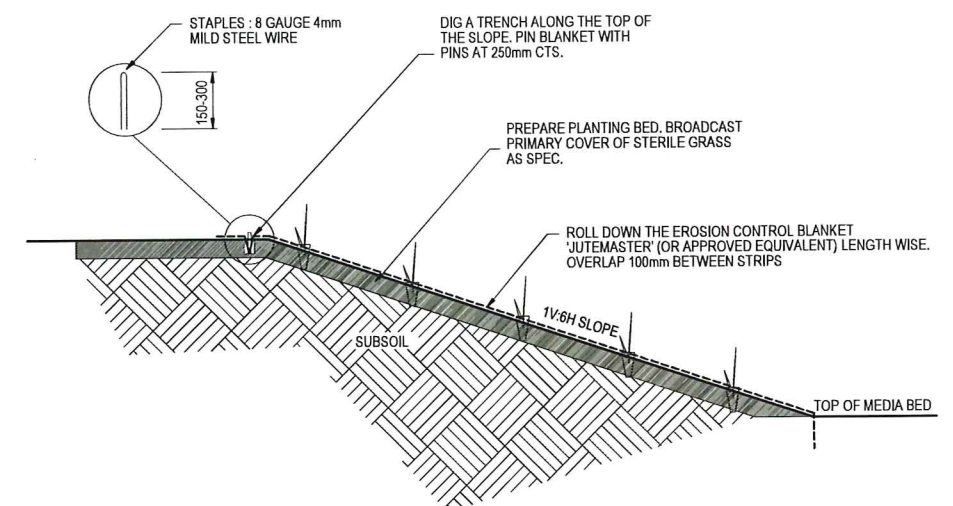


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Project:
**MARSDEN PARK INDUSTRIAL
STAGE 3.01 BASIN B DESIGN**



Drawing Title:
BIORETENTION BASIN E PLAN
Project No.: **X11227.23W**
Stage: **3.01**
Milestone: **DA**
Dwg No.: **102**
Revision: **01**

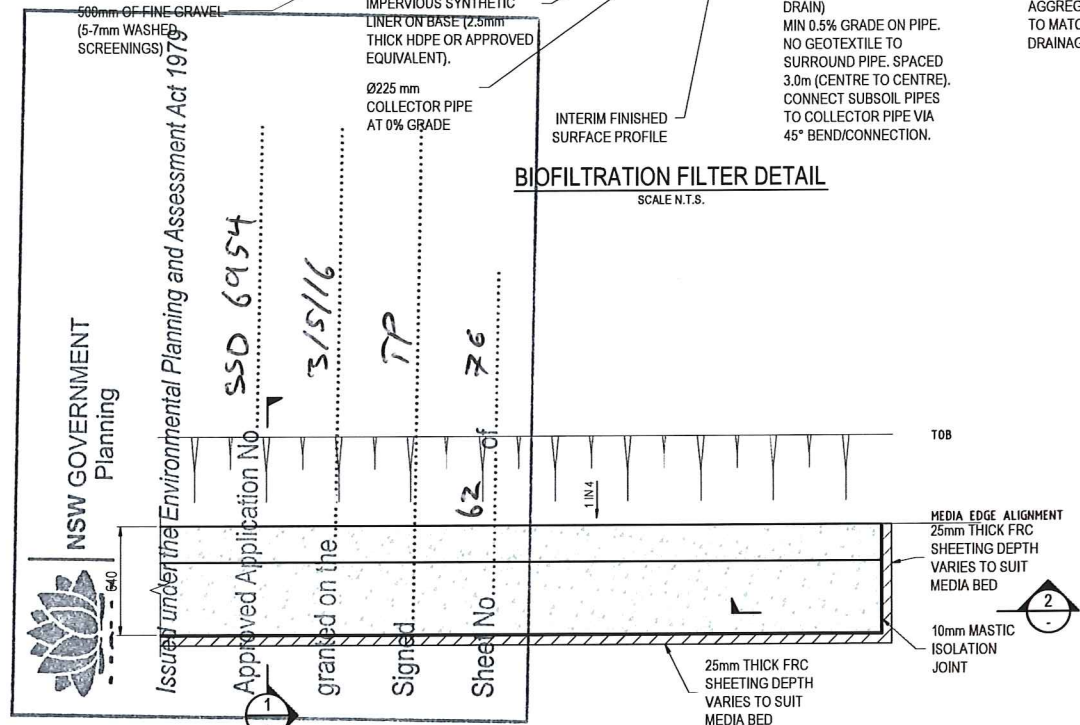


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Drawing Title:				
TYPICAL DETAILS SHEET 01 OF 02				
Project No.:	Stage:	Milestone:	Dwg No.:	Revision:
X11227.23W	3.01	DA	103	01



SCALE: N.T.S.



1. pH BETWEEN 5.5 TO 7.5
2. EC < 1.2 dS/m
3. ORGANIC MATTER CONTENT < 5% w/w
4. ORTHOPHOSPHATE CONTENT < 40 mg/kg
5. TOTAL NITROGEN CONTENT 800mg/kg
6. TOTAL SILT & CLAY CONTENT < 3% w/w
7. A MINIMUM HYDRAULIC CONDUCTIVITY AS DEFINED BY ASTM F1815-06 OF 200 mmh (ACTUAL, NOT PREDICTED)
8. A MAXIMUM HYDRAULIC CONDUCTIVITY AS DEFINED BY ASTM F1815-06 OF 500 mmh (ACTUAL, NOT PREDICTED)
9. FILTER MEDIA PLANTINGS ARE TO BE IN ACCORDANCE WITH THE V.M.P. COUNCIL REQUIRED CONDITIONS IN DA 12-2131 & COUNCIL DEVELOPER HANDBOOK (HANDBOOK 5) FOR WATER SENSITIVE URBAN DESIGN
10. BIORETENTION MATERIAL ARE TO SATISFY THE CONDITIONS LISTED IN DA 11-2242.

1. MEDIA SPECIFICATION & GRADING TO BE VERIFIED BY HYDRAULIC ENGINEER PRIOR TO PLACEMENT.
2. FILTER MEDIA TO BE LIGHTLY COMPACTED USING A SINGLE PASS VIBRATING PLATE OR ROLLER (E.G. DRUM LAWN ROLLER).
3. FILTER MEDIA TO BE INSTALLED IN TWO LIFTS UNLESS DEPTH OF MEDIA IS < 500mm.
4. UPON INSTALLATION OF FILTER MEDIA, A TEMPORARY FINISH IS TO BE PROVIDED COMPRISING A LAYER OF GEOTEXTILE LAYED OVER THE TRANSITION LAYER & 150mm FILTER MATERIAL & TURF OR COARSE SAND OVER THE GEOTEXTILE. REFER TO TEMPORARY SURFACE TREATMENT DETAIL.
5. WHEN THE CATCHMENT DRAINING TO THE BASIN IS 90% DEVELOPED, THE TEMPORARY LAYER IS TO BE REMOVED BY PEEING THE GEOTEXTILE LAYER, TOPSOIL, AND TURF, EXPOSING THE MEDIA. THE MEDIA IS THEN TO BE PLANTED IN ACCORDANCE WITH THE LANDSCAPE DRAWINGS.



1. ALL RIPRAP MUST CONSIST OF HARD, DURABLE ANGULAR RUN-OF-QUARRY ROCK. RESISTANT TO WEATHERING & WATER ACTION, FREE FROM OVERBURDEN, SPOIL, SHALE & ORGANIC MATERIAL; & SHALL MEET THE GRADATION REQUIREMENTS SPECIFIED.
2. ROUNDED STONES/BOLDERS WILL NOT BE ACCEPTABLE.
3. SHALE & ROCK WITH SHALE SEAMS WILL NOT BE ACCEPTABLE.
4. ALL ROCK & COBBLES TO BE PACKED WITH TOPSOIL. GAPS IN RIPRAP TO BE PLANTED AS SPECIFIED IN VMP, OR WITH SUITABLE NATIVE GRASSES/SEDGES.
5. RIPRAP SHALL BE PLACED ON THE PREPARED SLOPE IN A MANNER THAT WILL PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICAL PERCENTAGE OF VOIDS.
6. LARGER STONES SHALL BE WELL DISTRIBUTED & THE ENTIRE MASS OF STONE SHALL CONFORM TO THE GRADATION SPECIFIED BY THE ENGINEERING PLANS.
7. RIPRAP IS TO BE PLACED BY HAND AND CROW-BARRED INTO PLACE TO ENSURE FIT WITH MINIMUM VOIDS.
8. THE MINIMUM THICKNESS OF THE RIPRAP LAYER IS TO BE 20 TIMES THE #50 ROCK SIZE & NOT BE LESS THAN 300mm FOR PRACTICAL PLACEMENT.
9. THE RIPRAP THICKNESS SHOULD BE INCREASED BY 50% WHEN THE RIPRAP IS PLACED UNDERWATER - UNLESS THE CONTRACTOR CAN OVERCOME UNCERTAINTIES ASSOCIATED WITH THIS TYPE OF PLACEMENT.
10. PLACE OVERSIZED ROCKS (BAFFLE BLOCKS) EVENLY DISTRIBUTED ACROSS THE ROCK MASS. H-150mm MIN FOR PIPE OUTLETS ONLY.
11. ALL RIPRAP MUST BE PLACED OVER A 200mm LAYER OF ANGULAR COBBLES D50-140mm MIXED WITH GRAVEL D50-10mm.
12. ALL ROCK IS TO BE A HARD DURABLE ROCK WITH A POINT INDEX LOAD ≥ 50 GREATER THAN 1.0MPa AS DETERMINED IN ACCORDANCE WITH AASHTO 13.4.1.
13. THE MINIMUM DENSITY OF STONE USED SHALL NOT BE LESS THAN 2200 kg/cu.m. TYPICAL ROCK WEIGHT RANGES FOR RIPRAP ARE:
M50 - 60kg (NOM 300MD)
M15 - 25kg
M100 - 120kg



SCALE N.T.S.

NOTES:
FLUSH POINTS TO BE PROVIDED AT END OF EVERY COLLECTOR DRAINAGE LINE

USE:
-Ø225mm UPVC COLLECTOR PIPE&BENDS FOR BASINS 1 & 2



SCALE N.T.S.

NOTES:
FLUSH POINTS TO BE PROVIDED AT END OF EVERY
SUBSOIL LINE

FOR DEVELOPMENT APPLICATION

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LE 141101072 - MARSEIL PARK REVISIONS									
	01	PW	DHG	GW	PG	13/10/2015	FOR DEVELOPMENT APPLICATION		
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Project:	MARSDEN PARK INDUSTRIAL STAGE 3.01 BASIN B DESIGN

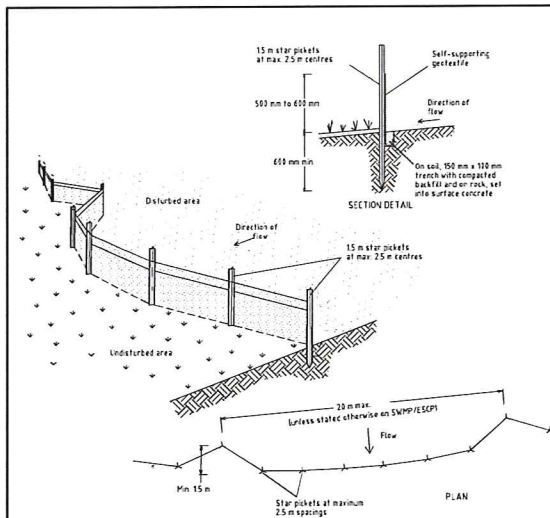
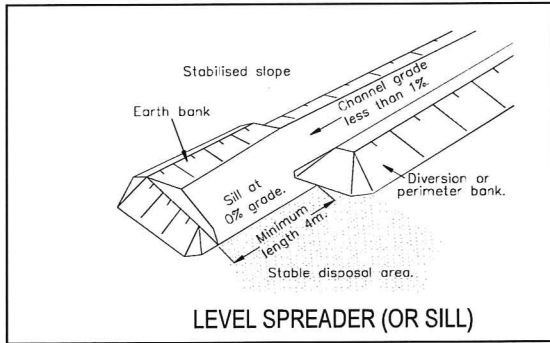


Drawing Title:				
TYPICAL DETAILS SHEET 02 OF 02				
Project No.:	Stage:	Milestone:	Dwg No.:	Revision:
X11227.23W	3.01	DA	104	-01

SEDIMENT & EROSION CONTROL NOTES

- THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORKS BEING CARRIED OUT. ALL SOIL AND EROSION MEASURES SHALL BE MAINTAINED AND KEPT IN PLACE FOR THE FULL DURATION OF THE WORKS AND SHALL ONLY BE REMOVED AT FINAL STABILISATION OF THE WORKS, WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.
- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED AS INDICATED ON THESE DRAWINGS. LOCATION AND EXTENT OF SOIL AND WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT.
- CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY NECESSARY CONTROL IS IN PLACE EVEN THOUGH SUCH CONTROL MAY NOT BE SHOWN ON THE PLAN.
- THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS AND ALL EMPLOYEES OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSTREAM AREAS
- APART FROM SEDIMENT BASINS, THE CONTRACTOR SHALL REGULARLY MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES AND DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 30% DUE TO ACCUMULATED SEDIMENT. THE SEDIMENT SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL TEMPORARILY REHABILITATE WITHIN TEN (10) DAYS ANY DISTURBED AREAS PROVIDING A MINIMUM 60% COVER. FINAL REHABILITATION IS TO BE PROVIDED WITHIN A FURTHER 60 DAYS WITH A MINIMUM 70% COVER.
- THE CONTRACTOR SHALL PROVIDE WATERING OF THE VEGETATED BATTERS FOR MAINTENANCE PERIOD. PLANT, MACHINERY AND VEHICLES SHALL NOT BE DRIVEN OVER GRASSED AREAS UNLESS ON AN APPROVED HAULAGE ROUTE.
- ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.
- SITE ACCESS SHALL BE RESTRICTED TO THE NOMINATED POINTS. THE CONTRACTOR SHALL PROVIDE STABILISED SITE ACCESS.
- DUST AND SITE DISTURBANCE MUST BE KEPT TO A MINIMUM DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS MUST BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO REDUCE WIND EROSION. ERECT BARRIER FENCING TO MINIMISE LAND DISTURBANCE BY PREVENTING VEHICULAR AND PEDESTRIAN ACCESS TO AREAS BEING REHABILITATED AND LANDS THAT DO NOT NEED TO BE DISTURBED BY THIS PROJECT.
- STOCKPILE TOPSOILS, SUBSOILS AND OTHER MATERIALS SEPARATELY.
- TOPSOIL SHALL BE STORED IN LOW MOUNDS NO MORE THAN 2 METRES HIGH AND RE-USED WITHIN TWO MONTHS TO MAINTAIN ACTIVE POPULATIONS OF BENEFICIAL SOIL MICROBES AND SEED.
- PLACE ALL STOCKPILES AT LEAST FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS, ESPECIALLY EARTH BANKS AND ROADS. IF NECESSARY, EARTH BANKS OR DRAINS WILL BE CONSTRUCTED TO DIVERT LOCALISED RUN-ON.
- TURN TOPSOIL STOCKPILES OVER TO AERATE THEM AT MONTHLY INTERVALS. ENSURE VEGETATION IS NOT INCORPORATED INTO THE SOIL.
- AVOID REVERSING THE SOIL PROFILE MATERIALS DURING FILL OPERATIONS - REPLACE DISTURBED SOILS IN THEIR ORIGINAL ORDER.
- ON COMPLETION OF MAJOR EARTHWORKS AND BEFORE ADDING TOPSOIL, LEAVE DISTURBED LANDS WITH A LOOSE SURFACE. ALTERNATIVELY, DISTURBED AREAS PREVIOUSLY COMPACTED BY CONSTRUCTION WORKS WILL BE RIPPED TO MORE THAN 200-MM ALONG THE CONTOUR BEFORE APPLYING TOPSOIL.
- PROVIDING MATERIALS ARE AVAILABLE, SPREAD TOPSOIL TO A MINIMUM DEPTH OF 75mm IN REVEGETATION AREAS ON SLOPES OF 4(H):1(V) OR LESS AND TO A DEPTH OF 40 TO 60mm IN REVEGETATION AREAS STEEPER THAN 4:1.
- LEAVE TOPSOIL IN A SCARIFIED OR ROUGH CONDITION ONCE REPLACED TO HELP MOISTURE INFILTRATION AND REDUCE SOIL EROSION.
- ENSURE SOIL IS THOROUGHLY SOAKED TO A DEPTH OF 75mm (RAIN OR IRRIGATION) IMMEDIATELY BEFORE PLANTING.
- HANDLE TOPSOIL ONLY WHEN IT IS MOIST (NOT WET OR DRY) TO AVOID DECLINE OF SOIL STRUCTURE
- THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:
 - RECORDS OF ALL RAINFALL
 - CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES
 - ANY APPLICATION OF FLOCCULATING AGENTS TO SEDIMENT BASIN
 - VOLUMES OF ALL WATER DISCHARGED FROM SEDIMENT BASINS
 - ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
- THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF WORKS
- ALL ROAD EMBANKMENTS TO BE STABILISED AS PER LANDSCAPE ARCHITECTS DETAILS.
- A SELF AUDITING PROGRAM SHOULD BE ESTABLISHED BASED ON A CHECK SHEET DEVELOPED FOR THE SITE. A SITE INSPECTION USING THE CHECK SHEET SHOULD BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE AND IMMEDIATELY FOLLOWING RAINFALL EVENTS THAT CAUSE RUNOFF.
- UNDERTAKE THE SELF AUDIT BY:
 - WALKING AROUND THE SITE SYSTEMATICALLY (E.G. CLOCKWISE)
 - RECORDING THE CONDITION OF EVERY BMP EMPLOYED
 - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH BMP
 - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
 - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER/SITE OPERATOR FOR THEIR INFORMATION
- IN PARTICULAR, INSPECT:
 - LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE
 - ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, ENSURING THEY ARE OPERATING CORRECTLY

- AREAS THAT MIGHT SHOW WHETHER SEDIMENT OR OTHER POLLUTANTS ARE LEAVING THE SITE OR HAVE POTENTIAL TO DO SO
- ALL DISCHARGE POINTS, TO ASSESS WHETHER THE EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO THE RECEIVING WATERS
27. A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE, AND IMMEDIATELY FOLLOWING RAINFALL EVENTS GREATER THAN 5mm IN 24 HOURS.



- Construction Notes**
- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
 - Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
 - Drive 15 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
 - Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
 - Join sections of fabric at a support post with a 150-mm overlap.
 - Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE SD 6-8



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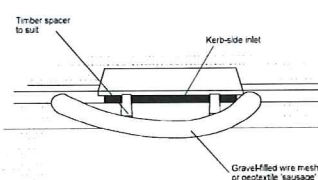
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Approved Application No. **SSD 6954**

granted on the **3/5/16**

Signed **TP**

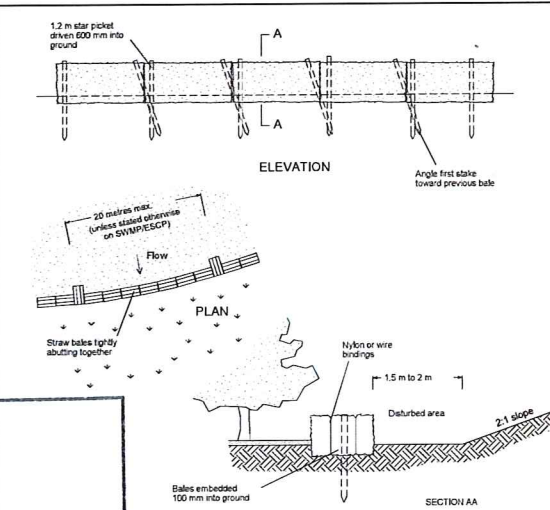
Sheet No. **63** of **76**



NOTE: This practice only to be used where specified in an approved SWMP/ESCP.

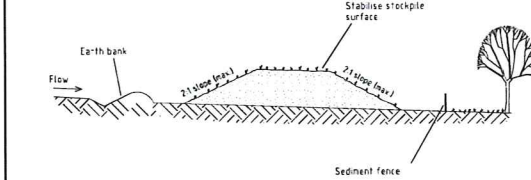
- Construction Notes**
- Install filters to kerb inlets only at sag points.
 - Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
 - Form an elliptical cross-section about 150 mm high x 400 mm wide.
 - Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
 - Form a seal with the kerb to prevent sediment bypassing the filter.
 - Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

MESH AND GRAVEL INLET FILTER SD 6-11



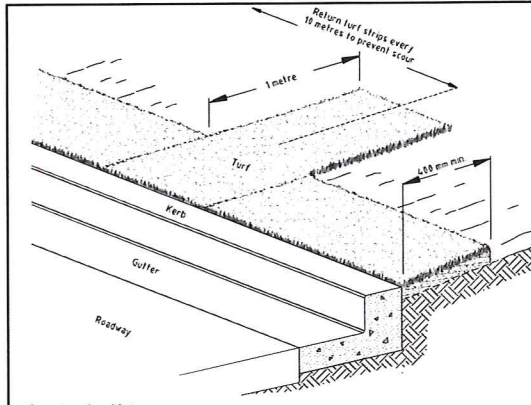
- Construction Notes**
- Construct the straw bale filter as close as possible to being parallel to the contours of the site. Bales should be placed in a row with ends tightly abutting. Use straw to fill any gaps between bales. Straws are to be placed parallel to ground.
 - Ensure that the maximum height of the filter is one bale.
 - Embed each bale in the ground 75 mm to 100 mm and anchor with two 12 metre star pickets or stakes. Angle the first star picket or stake in each bale towards the previously laid bale. Drive them 600 mm into the ground and, if possible, flush with the top of the bales. Where star pickets are used and they protrude above the bales, ensure they are fitted with safety caps.
 - Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1 to 2 metres downslope from the toe.
 - Establish a maintenance program that ensures the integrity of the bales is retained - they could require replacement each two to four months.

STRAW BALE FILTER SD 6-7



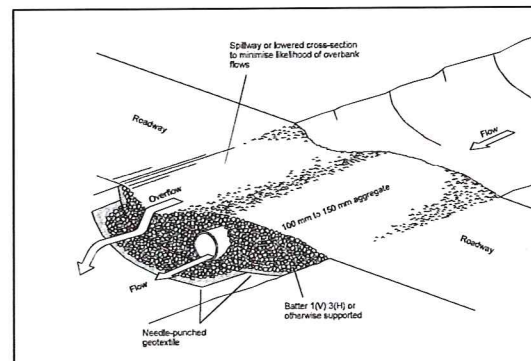
- Construction Notes**
- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
 - Construct on the contour as low, flat, elongated mounds.
 - Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
 - Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
 - Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES SD 4-1



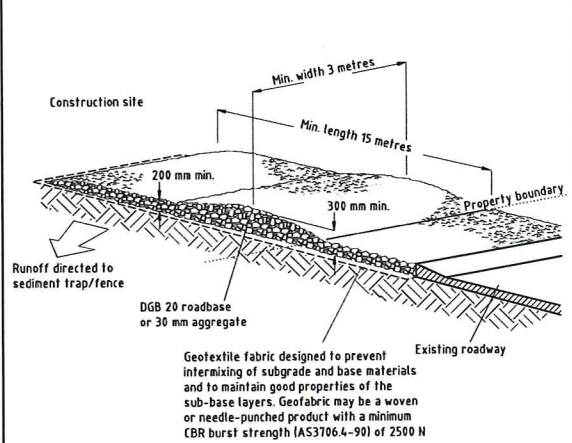
- Construction Notes**
- Install a 400 mm minimum wide roll of turf on the footpath next to the kerb and at the same level as the top of the kerb.
 - Lay 14 metre long turf strips normal to the kerb every 10 metres.
 - Rehabilitate disturbed soil behind the turf strip following the ESCP/SWMP.

KERBSIDE TURF STRIP SD 6-13



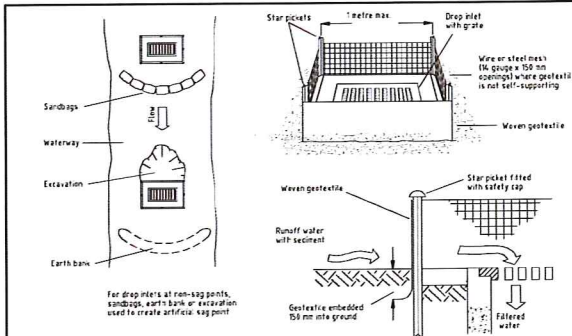
- Construction Notes**
- Prohibit all traffic until the access way is constructed.
 - Strip any topsoil and place a needle-punched textile over the base of the crossing.
 - Place clean, rigid, non polluting aggregate or gravel in the 100 mm to 150 mm size class over the fabric to a minimum depth of 200 mm.
 - Provide a 3-metre wide carriageway with sufficient length of culvert pipe to allow less than a 3(H):1(V) slope on side batters.
 - Install a lower section to act as an emergency spillway in greater than design storm events.
 - Ensure that culvert outlets extend beyond the toe of fill embankments.

TEMPORARY WATERWAY CROSSING SD 5-1



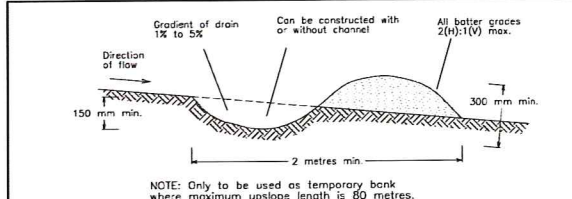
- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200 mm thick pad over the geotextile using road base or 30 mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

STABILISED SITE ACCESS SD 6-14



- Construction Notes**
- Fabricate a sediment barrier made from geotextile or straw bales.
 - Follow Standard Drawing 6-8 for installation procedures for geofabric. Reduce the picket spacing to 1 metre centres.
 - In waterways, artificial sag points can be created with sandbags or earth banks as shown in the drawing.
 - Do not cover the inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

GEOTEXTILE INLET FILTER SD 6-12



- Construction Notes**
- Build with gradients between 1 percent and 5 percent.
 - Avoid removing trees and shrubs if possible - work around them.

- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

CATCH DRAIN / DIVERSION BANK SD 5-5

FOR DEVELOPMENT APPLICATION

Revisions		Revision Details	
01	PW DHG GW PG	13/10/2015	FOR DEVELOPMENT APPLICATION
00	PW DHG PG PG	30/06/2015	FOR DEVELOPMENT APPLICATION
First Issue	PW DHG PG PG	30/06/2015	
Draw		Design	Check
		Appd.	Date

NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	
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All dimensions to be checked on site by contractor prior to construction. Use written dimensions only. Do not scale.	
CONCAT AUSTRALIA	
Quality Endorsed Company	

Authorised for Issue:	
BY: STUART GREEN	FIEAust. CPEng, Manager - Urban Development
SIGN:	
DATE:	

Client:	
MARSDEN PARK DEVELOPMENT PTY. LTD.	
Project:	
MARSDEN PARK INDUSTRIAL STAGE 3.01 BASIN B DESIGN	

Drawing Title:	
SEDIMENT AND WATER MANAGEMENT NOTES & DETAILS	
Project No:	Stage:
X11227.23W	3.01
Milestone:	Dwg No.:
DA	802
Revision:	
01	

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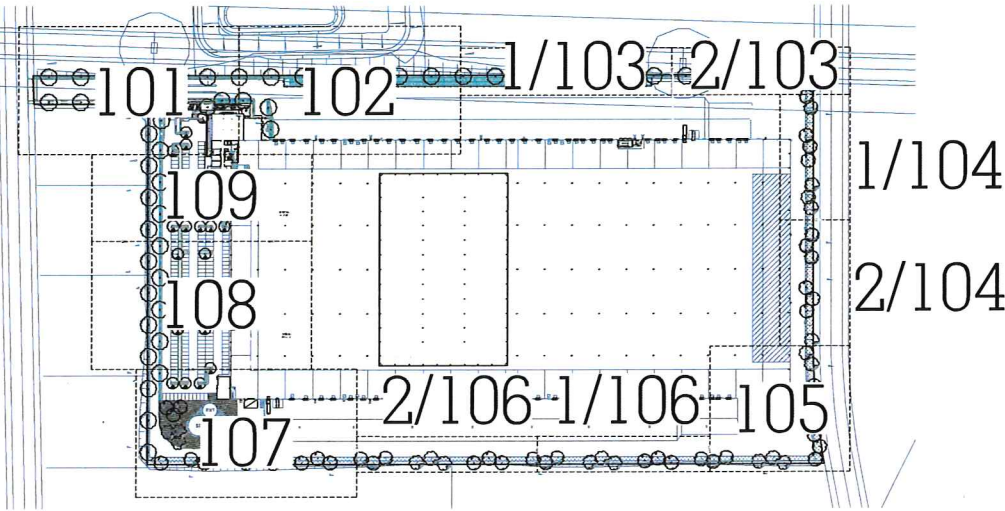
COVER SHEET

IKEA MFLU
MARSDEN PARK INDUSTRIAL PRECINCT, NSW

PLANT SCHEDULE

15-267 - IKEA MFLU Marsden Park PLANT SCHEDULE						
CODE	BOTANIC NAME	COMMON NAME	MAT URF SIZE (h x w x d)	PROPOSED POT SIZE	QUANTITY	LOCAL NATIVE
TREES						
AC	<i>Angophora costata</i>	Smooth-Barked Apple	20 x 10	75L	53	Y
ES	<i>Eucalyptus globulus</i>	Spotted Gum	10 x 10	75L	21	Y
EP	<i>Eucalyptus polystachya</i>	Grey Gum	20 x 10	75L	21	Y
MS	<i>Meriania decaisneana</i>	Yarrow-leafed Paperbark	15 x 10	75L	21	Y
SHRUBS & ACCENTS						
AL	<i>Allocasuarina verticillata</i>	Silver Birch	5 x 4	200mm	1209	Y
AP	<i>Allocasuarina verticillata</i>	Silver Birch	15 x 15	200mm	13	Y
BS	<i>Banksia integrifolia</i>	Coast Banksia	15 x 1	300mm	502	Y
CS	<i>Callistemon citrinus</i>	Scarlet Heath	2 x 15	200mm	1209	Y
CR	<i>Callistemon citrinus</i>	Scarlet Heath	2.5 x 15	200mm	15	Y
DS	<i>Drosera rotundifolia</i>	Sundew	15 x 15	200mm	16	Y
DS	<i>Drosera rotundifolia</i>	Sundew	2 x 15	200mm	131	Y
DS	<i>Drosera rotundifolia</i>	Sundew	2 x 1	200mm	610	Y
DS	<i>Drosera rotundifolia</i>	Sundew	1 x 1	150mm	723	Y
DS	<i>Drosera rotundifolia</i>	Sundew	15 x 15	200mm	99	Y
GRASSES & FLOWERS						
DS	<i>Drosera rotundifolia</i>	Sundew	1 x 1	150mm	119	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.5 x 0.5	150mm	62	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.8 x 0.8	150mm	509	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.5 x 0.5	200mm	140	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.6 x 0.6	200mm	141	Y
DS	<i>Drosera rotundifolia</i>	Sundew	1 x 1	200mm	622	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.5 x 0.5	150mm	1233	Y
DS	<i>Drosera rotundifolia</i>	Sundew	1 x 1	150mm	480	Y
GROUNDCOVERS & CLIMBERS						
DS	<i>Drosera rotundifolia</i>	Sundew	0.5 x 0.5	150mm	1740	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.5 x 0.5	150mm	360	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.5 x 0.5	200mm	210	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.25 x 0.5	150mm	21	Y
DS	<i>Drosera rotundifolia</i>	Sundew	0.25 x 0.5	150mm	3037	Y
BIO-SWALL MATRIX						
DS	<i>Drosera rotundifolia</i>	Sundew	1 x 1	150mm	1530	Y
DS	<i>Drosera rotundifolia</i>	Sundew	1 x 1	150mm	1530	Y
DS	<i>Drosera rotundifolia</i>	Sundew	1 x 1	150mm	1530	Y
DS	<i>Drosera rotundifolia</i>	Sundew	1 x 1	150mm	1530	Y

KEY PLAN
Scale: 1:2500 @ A1



LOCATION PLAN
Scale: NTS



DRAWING SCHEDULE

DRAWING NO.	DRAWING TITLE	REVISION
000	COVER SHEET	A
001	LANDSCAPE MASTER PLAN	A
101	LANDSCAPE PLAN	A
102	LANDSCAPE PLAN	A
103	LANDSCAPE PLAN	A
104	LANDSCAPE PLAN	A
105	LANDSCAPE PLAN	A
106	LANDSCAPE PLAN	A
107	LANDSCAPE PLAN	A
108	LANDSCAPE PLAN	A
109	LANDSCAPE PLAN	A
501	LANDSCAPE DETAILS	A
502	LANDSCAPE DETAILS	A

LANDSCAPE MASTERPLAN

001



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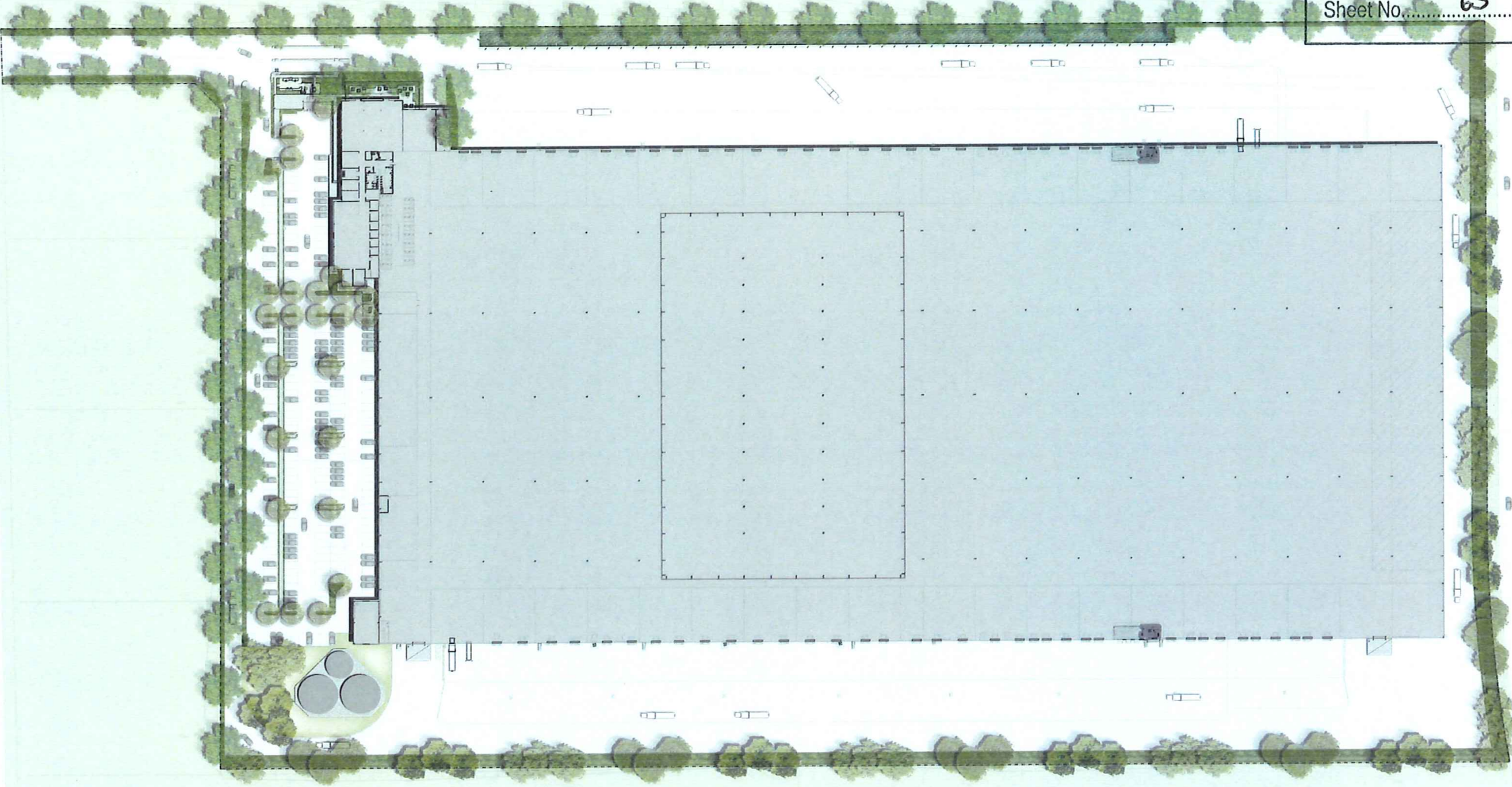
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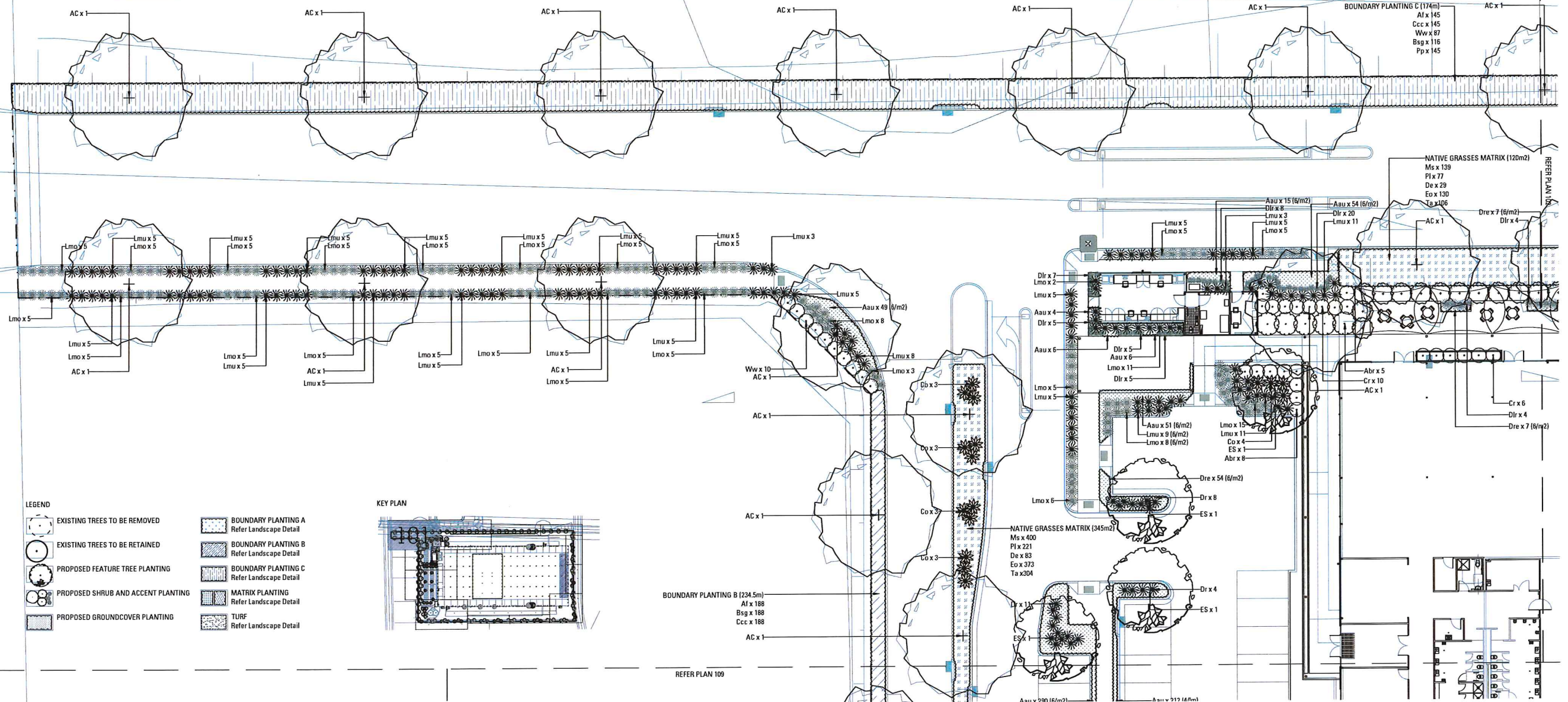
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1:200 @ A1



LANDSCAPE PLAN

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