

CIVIL DRAWINGS



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GRIMSHAW
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CITY OF PARRAMATTA COUNCIL

CLIENT

ALCP

PROJECT



38574

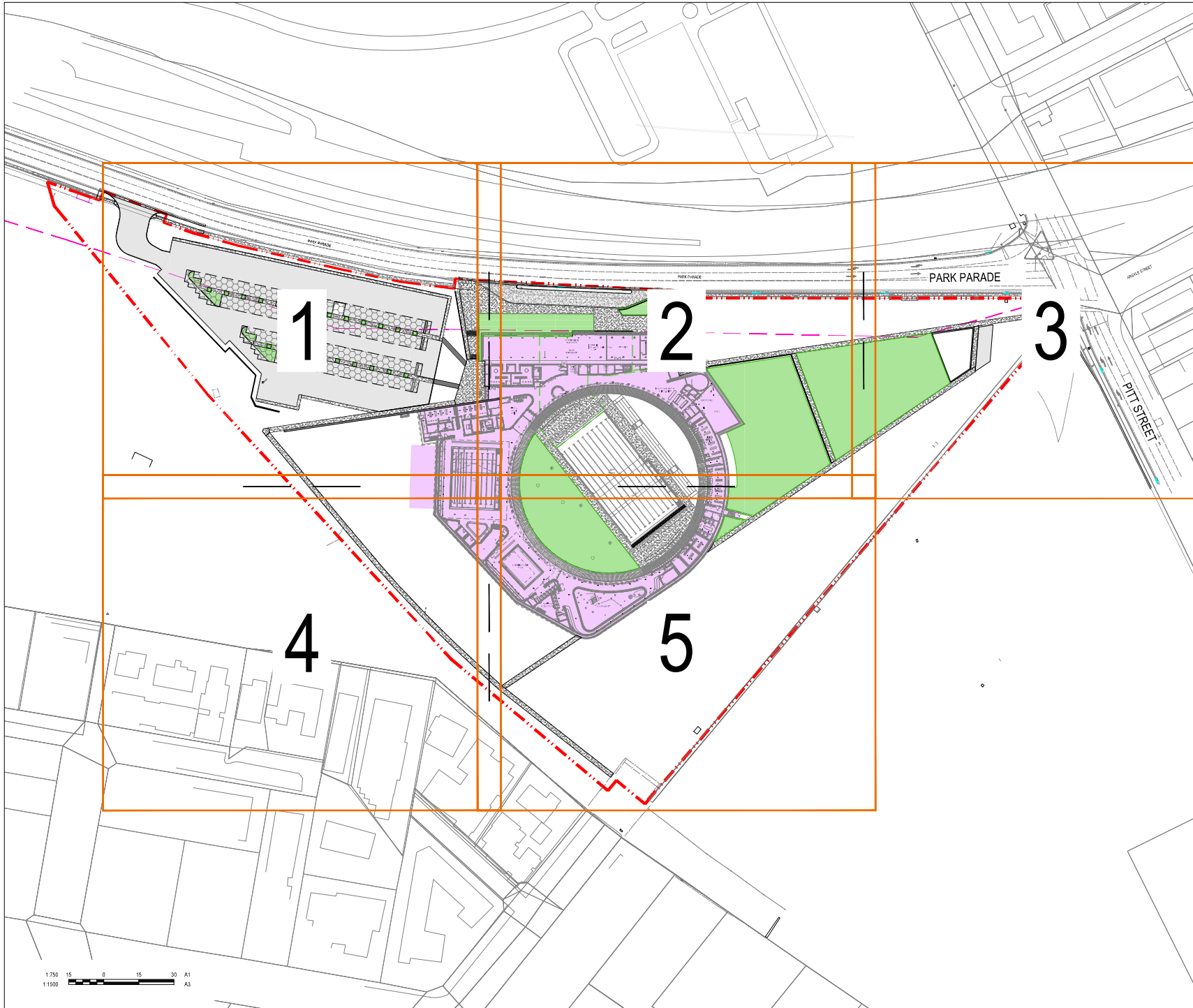
PROJECT No

CI-000-001

DRAWING No

G

REV



LEGEND

- PROPOSED SITE BOUNDARY
- EASEMENT
- PROPOSED BUILDING
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT



REV	DESCRIPTION	DRAWN	APPD	DATE
A	ISSUED FOR DRAFT SSDA	LAM	RET	06.03.20
B	SSDA ISSUE	LAM	RET	31.03.20
C	SSDA ISSUE	LAM	RET	12.05.20
D	DRAFT TENDER ISSUE	CPO	RET	23.07.20
E	70% DAC TENDER ISSUE	LAM	RET	07.08.20
F	FOR SUBMISSION	LAM	RET	09.11.20

CITY OF PARRAMATTA

GRIMSHAW
A3A

Stantec

CONSULTANT	ARCHITECT/CLIENT
DRAWN: CPO	
DESIGNED: LAM	
VERIFIED: RET	05.08.20
APPROVED FOR TENDER:	
APPROVED FOR CONSTRUCTION:	

PROJECT
PARRAMATTA AQUATIC CENTRE

TITLE
KEY PLAN

FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN: **38574** CI-000-011 F

SCALE @ A1: PROJECT No: DRAWING No: REV:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER DOCUMENTS AND DRAWINGS SUPPLIED BY THE ENGINEER. IF ANY SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT, ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
3. ALL DIMENSIONS ARE IN METRES AND ALL LEVELS ARE IN METRES, UNLESS NOTED OTHERWISE.
4. NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.
5. ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORK.
6. THE ENGINEER'S APPROVAL OF ANY DIMENSIONS OR LEVELS SUPPLIED AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.
7. ALL DATA AND INFORMATION SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES UPON REQUEST.

2. ORIGINAL LEVELS - REFER SURVEY NOTES.
3. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON PROJECT IMMEDIATELY PRIOR TO CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO WOOD AND GRIFFIN VALUES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. CONTRACTOR TO CONFIRM ALL GRIFFIN VALUES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
6. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE EXISTING MATERIAL.
7. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER EXISTING ASPHALT, REINFORCED CONCRETE OR GRAVEL, BACKFILL WITH PAVEMENT SAND OR APPROVED GRAVEL MATERIAL COMPACTED 150mm TO MINIMUM MAXIMUM MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH 1289.5.2.1, OR A DENSITY INDEX OF NOT LESS THAN 75).
8. PROVIDE 10mm MIN. EXPANSION Joints BETWEEN BUILDINGS AND ALL EXISTING AND NEW CONCRETE.
9. ASPHALT TACK COAT SHALL CONFORM TO RSI SPECIFICATION 91.1.
10. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED IN ACCORDANCE WITH 1289.5.2.1, OR A DENSITY INDEX OF NOT LESS THAN 75 (50% BOUND) COMPACTED TO MINIMUM 98% MOISTURE DENSITY IN ACCORDANCE WITH 1289.5.2.1.
11. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 500m² BASECOURSE MATERIAL PLACED.
12. ALL SUBBASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED IN ACCORDANCE WITH 1289.5.2.1, OR A DENSITY INDEX OF NOT LESS THAN 75 (50% BOUND) COMPACTED TO MINIMUM 98% MOISTURE DENSITY IN ACCORDANCE WITH 1289.5.2.1.
13. FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 500m² SUBBASE COURSE MATERIAL PLACED.
14. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUBBASE MATERIAL, IN (a) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH THE COMPACTION AND STRENGTH REQUIREMENTS OF THE PRODUCT TYPE, MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF WOOD AND GRIFFIN ENGINEERS.
15. THE TYPE OF THE COMPACTION AND STRENGTH REQUIREMENTS OF THE PRODUCT TYPE SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE STATED.
16. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS (e.g. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORKS.

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN SHOWN AS PER THE TOPOGRAPHIC SURVEY RECEIVED ON 08/11/2019. FILE PARRAMATTA AQUATIC CENTRE_SITE SURVEY-SH1, AS INVESTIGATED BY LAND DATA SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. WOOD AND GRIEVE ENGINEERS DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS BASIS FOR CONSTRUCTION DRAWINGS. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT WOOD AND GRIEVE ENGINEERS.

1. REFER ARCHITECT AND LANDSCAPE ARCHITECT DOCUMENTATION FOR ALL CONCRETE FINISHES
2. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
3. CONCRETE QUALITY ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
- PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY WOOD AND GRIEVE ENGINEERS.

4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.

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3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELEVANT SERVICE AUTHORITY DOCUMENTATION AND CURRENT NSW STREETS OPENING CONSTRUCTION RULES TO COVER THE FOLLOWING: (a) RELEVANT LITERATURE.
4. THE CONTRACTOR SHALL DESIGN, MANAGE, SUPERVISE AND COMPLY WITH THE REQUIREMENTS OF THE WORKS GENERALLY AS INDICATED ON THE SERVICES PLANS, NOTING THAT PRIOR DURING CONSTRUCTION THE CONTRACTOR SHALL BE REQUIRED TO FINALISE THEIR DOCUMENTATION TO CONSTRUCTION ISSUE STANDARD.
5. THE CIVIL CONTRACTOR (TRENCH PROVIDER) IS TO ARRANGE ON SITE CO-ORDINATING WITH ALL SERVICE AUTHORITIES PRIOR TO THE INSTALLATION OF CONDUITS.
6. THE CIVIL CONTRACTOR IS TO CO-ORDINATE INSTALLATION OF ELECTRICITY, GAS AND TELEPHONE CONDUITS.
7. ELECTRICITY, GAS AND TELECOMMUNICATION SERVICES ARE TO BE LAID FOLLOWING THE INSTALLATION OF STORMWATER, SEWER AND WATER MAINS AND RIGID PIPES.
8. ALL UTILITY REPRESENTATIVES TO INSPECT ROAD CROSSINGS PRIOR TO SEALING.
9. ALL ELECTRICAL ROAD CROSSINGS TO BE IN CLASS 5 (GRADE) JPVC CONDUIT.
10. ALL GAS ROAD CROSSINGS TO BE JPVC GREY SEWER GRADE CONDUITS.
11. ALL STREET POLES TO BE POSITIONED THE APPROPRIATE DISTANCE FROM THE CURB AND TO BE POSITIONED TO ALLOW FOR THE PROTECTION OF THE STREETS OPENING CONFERENCE GUIDE TO CODES AND PRACTICES FOR STREETS OPENING LITERATURE. CONTRACTOR TO ALLOW TO EXCAVATE CONDUITS TO BE LAYED GENERALLY IN ACCORDANCE WITH THE FOLLOWING:
12. ALL SERVICE FIT COVERS AND MARKERS ARE TO BE LAID WITHIN THE CONCRETE FOOTPATH, CONTRACT SUPERINTENDENT SHOULD

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT, BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLES TO IDENTIFY ITS LOCATION TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO ITS PROPERTY AND LOSSES CAUSED TO TELSTRA AND ITS CUSTOMERS.

NOTES

GENERAL INSTRUCTIONS

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

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - 6.1. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN, REFER DETAIL.
 - 6.2. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER, REFER DETAIL.
 - 6.3. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN.
 - 6.4. INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
7. 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.

8. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

9. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

10. 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 PREVENT SEDIMENT FROM ENTERING ANY KNOWNSLOPE FLOWS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
11. 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.
12. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA IS NOT PERMANENTLY LANDSCAPED AND/OR ANY LAYERS OF SOIL SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
13. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

1. GEOTECHNICAL INFORMATION RECEIVED TO DATE INCLUDES THE JK GEOTECHNICS REPORT DATED 17 OCT 2018. BOREHOLES WITHIN THE SITE INDICATE THE PRESENCE OF GROUNDWATER.
2. GEOTECHNICAL TESTING TO-DATE HAS CONFIRMED THE PRESENCE OF GROUNDWATER ON-SITE. A GEOTECHNICAL ENGINEER IS TO CONFIRM ALL DEWATERING MEASURES PRIOR TO CONSTRUCTION. GEOTECHNICAL ENGINEER TO PROVIDE SUPPORTING REPORTS AND CALCULATIONS FOR DEWATERING APPLICATION TO PREVALENT AUTHORITY (IE. NRM/WATER NSW)
3. METHOD OF DEWATERING TO BE DETAILED BY CONTRACTOR PRIOR TO CONSTRUCTION AND CONFIRMED BY GEOTECHNICAL ENGINEER.

1. CONTAMINATED OR ACID SULPHATE SOILS WILL REQUIRE AN ENVIRONMENTAL MANAGEMENT PLAN FROM A GEOTECHNICAL ENGINEER TO MANAGE CONTAMINATED GROUNDWATER OR SOILS

13. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:

13.1 PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS

- 13.3. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
- 13.4. ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER
- 13.5. 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
- 13.6. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

1. REFER SPECIFICATIONS NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.
2. STRIPPING TOPSOIL IN CONSULTATION WITH THE GEOLOGICAL ENGINEER / ENGINEER, FOR THE PURPOSES OF EARTHWORKS CALCULATION A TOPSOIL STRIPPING DEPTH OF 3000mm HAS BEEN ASSUMED. GROUND SLAB DEPTH OF 3000mm HAS BEEN ASSUMED WHERE REQUIRED.
3. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAIL EARTHWORKS.
4. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS, IS SERVING TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND TIES.
5. THE CONTRACTOR SHALL USE FINAL SURFACE ELEVATIONS AND TYPICAL PAVEMENT DETAILS FOR ACTUAL EARTHWORKS LEVELS.
6. BULK EARTHWORKS ARE BASED ON THE SETDOWN TO UNDERSIDE OF PAVEMENT BUILDUPS AS SPECIFIED FROM FINISHED SURFACE ELEVATIONS. SETDOWN CALCULATIONS HAVE NOT BEEN INCLUDED IN BULK EARTHWORKS CALCULATIONS.

[illegible]

 CITY OF PARRAMATTA
  GRIMSHAW
  ABA



PROJECT				
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TIME

NOT FOR CONSTRUCTION

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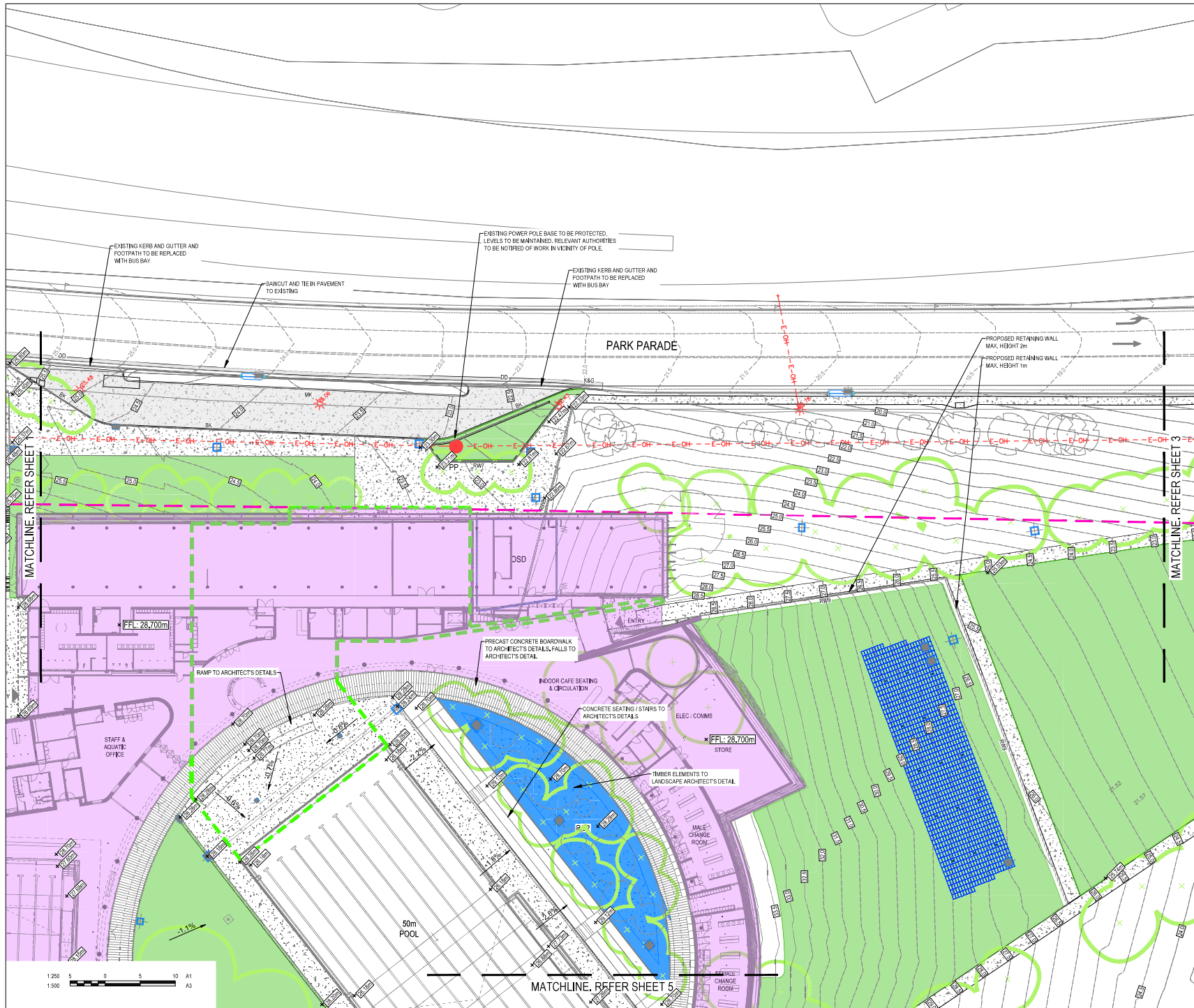
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E	70% D&C TENDER ISSUE	LAM	RET	07.08.20
D	DRAFT TENDER ISSUE	CPO	RET	23.07.20
C	SSDA ISSUE	LAM	RET	12.05.20
B	SSDA ISSUE	LAM	RET	31.03.20
A	ISSUED FOR DRAFT SSDA	LAM	RET	06.03.20
REV	DESCRIPTION	DRAWN	APPD	DATE

PROJECT	
PARRAMATTA AQUATIC CENTRE	

 **FOR SUBMISSION**
NOT FOR CONSTRUCTION

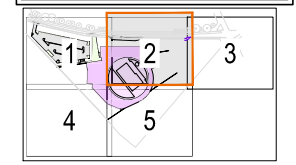
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THE CONTRACTOR AND/OR D/C TENDERED/SUBCONTRACTOR MUST ALLOW SUITABLE COST CONTINGENCIES AND CONSIDER THE PROGRESS AND COMPLETENESS OF THE DOCUMENTATION AT THE TIME OF PRICING IN ORDER TO FUND THE PROJECT THROUGH COMPLETION. STANTEC ARE NOT LIABLE FOR ANY INCREASE IN COSTS DUE TO THE TENDER PRICING BEING BASED IN DOCUMENTATION THAT IS NOT COMPLETE AND/OR FULL COMPREHENSIVE.



LEGEND

- PROPOSED SITE BOUNDARY
- LOWER GROUND FLOOR EXTENT
- ELECTRICAL EASEMENT
- PROPOSED BUILDING
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED TRAFFICABLE CONCRETE PAVEMENT
- PROPOSED RAINGARDEN
- LANDSCAPING TO LANDSCAPE ARCHITECT'S SPECIFICATIONS
- PROPOSED STRATAVAULT (UNDER)
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- K&G
- KO
- BK
- MK
- ES
- TK
- DD
- RETAINING WALL
- PROPOSED GRATED INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED SWALE
- PROPOSED TREE
- EXISTING TREE
- EXISTING STORMWATER KERB INLET PIT
- EXISTING ELECTRICITY OVERHEAD
- EXISTING ELECTRICITY POLE
- EXISTING ELECTRICITY POLE WITH LIGHT



Q	FOR SUBMISSION	LAM	RET	09.11.20
F	ISSUED FOR COORDINATION	LAM	RET	29.09.20
E	70% DAC TENDER ISSUE	LAM	RET	07.08.20
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CITY OF PARRAMATTA

GRIMSHAW
A3A

Stantec

CONSULTANT		ARCHITECT/ENGINEER	
DRAWN	CPO	DESIGNED	LAM
VERIFIED	RET	VERIFIED	RET
APPROVED FOR TENDER		APPROVED FOR CONSTRUCTION	

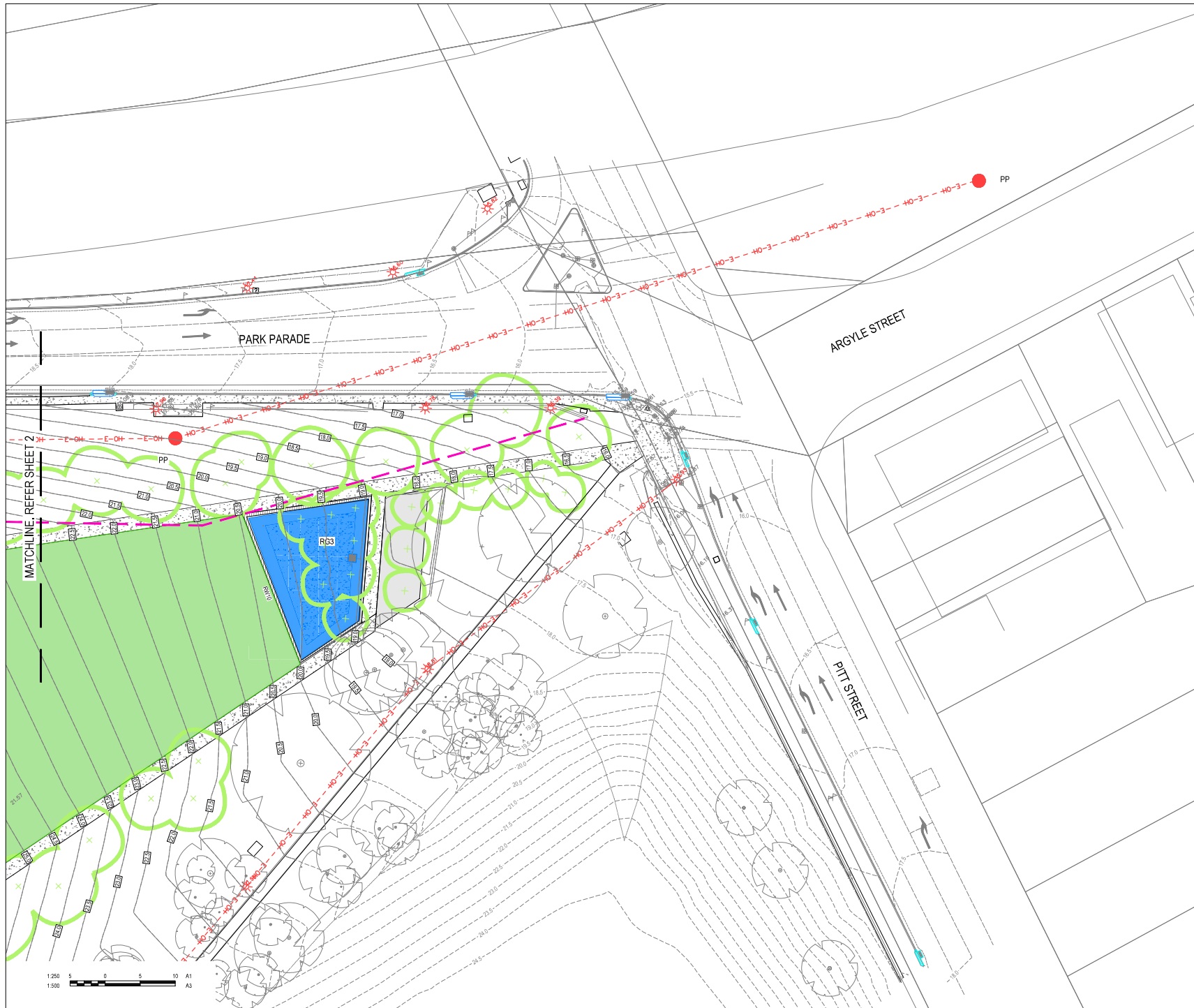
PROJECT
PARRAMATTA AQUATIC CENTRE

TITLE
SITEWORKS PLAN SHEET 2

FOR SUBMISSION
NOT FOR CONSTRUCTION

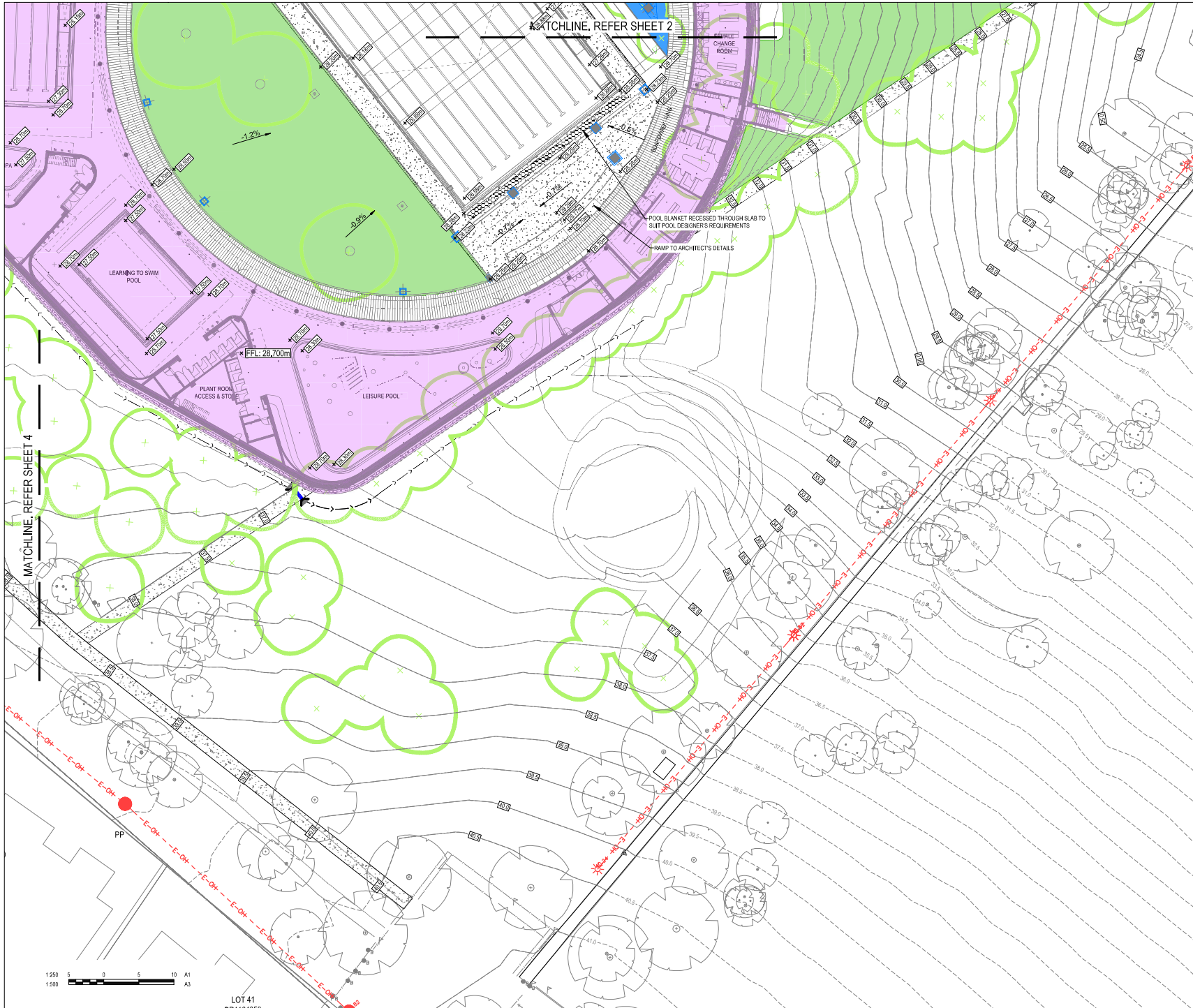
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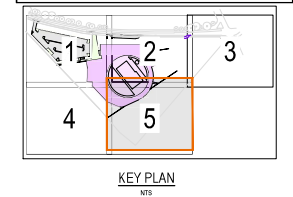


LEGEND

	PROPOSED SITE BOUNDARY
	LOWER GROUND FLOOR EXTENT
	ELECTRICAL EASEMENT
	PROPOSED BUILDING
	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED TRAFFICABLE CONCRETE PAVEMENT
	PROPOSED RAINGARDEN
	LANDSCAPING TO LANDSCAPE ARCHITECT'S SPECIFICATIONS
	PROPOSED STRATAVAULT (UNDER)
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	K&G
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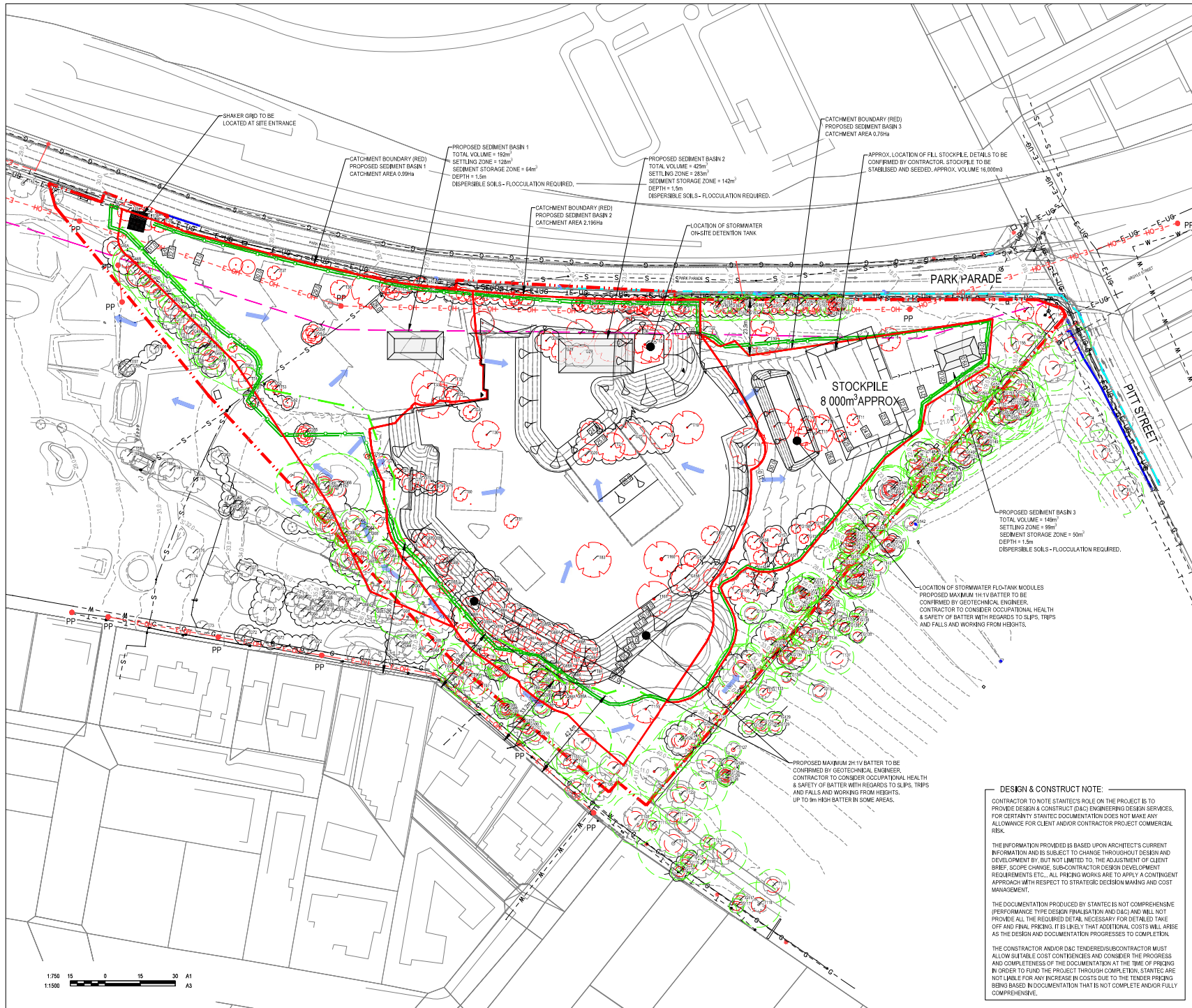
LEGEND	
	PROPOSED SITE BOUNDARY
	LOWER GROUND FLOOR EXTENT
	ELECTRICAL EASEMENT
	PROPOSED BUILDING
	PROPOSED ASPHALT PAVEMENT
	PROPOSED CONCRETE PAVEMENT
	PROPOSED TRAFFICABLE CONCRETE PAVEMENT
	PROPOSED RAINGARDEN
	LANDSCAPING TO LANDSCAPE ARCHITECT'S SPECIFICATIONS
	PROPOSED STRATAVAULT (UNDER)
	PROPOSED SURFACE CONTOUR
	EXISTING SURFACE CONTOUR
	K&G
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	K&B ONLY
	BARrier KERB
	MOUNTABLE KERB
	EDGE STRIP
	TRANSITION KERB
	DISH DRAIN
	K&B RAMP
	RETAINING WALL
	PROPOSED GRATED INLET PIT
	PROPOSED JUNCTION PIT
	PROPOSED SWALE
	PROPOSED TREE
	EXISTING TREE
	EXISTING STORMWATER KERB INLET PIT
	EXISTING ELECTRICITY OVERHEAD
	EXISTING ELECTRICITY POLE
	EXISTING ELECTRICITY POLE WITH LIGHT



G FOR SUBMISSION		LAM	RET	09.11.20
F ISSUED FOR COORDINATION		LAM	RET	29.09.20
E 70% DAC TENDER ISSUE		LAM	RET	07.08.20
D DRAFT TENDER ISSUE		CPO	RET	23.07.20
C SSDA ISSUE		LAM	RET	12.05.20
B SSDA ISSUE		LAM	RET	31.03.20
A ISSUED FOR DRAFT SSDA		LAM	RET	06.03.20
REV	DESCRIPTION	DRAWN	APPD	DATE
		GRIMSHAW A3A		
CONSULTANT		ARCHITECT/CLIENT		
		DRAWN	CPO	
		DESIGNED	LAM	
		VERIFIED	RET	05.08.20
		APPROVED FOR TENDER		
		APPROVED FOR CONSTRUCTION		
PROJECT				
PARRAMATTA AQUATIC CENTRE				
TITLE				
SITEWORKS PLAN SHEET 5				
FOR SUBMISSION NOT FOR CONSTRUCTION				
AS SHOWN	38574	CI-060-015	G	
SCALE @ A1	PROJECT No	DRAWING No	REV	

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LEGEND

- PROPOSED SITE BOUNDARY
- EXTENT OF EARTHWORKS EASEMENT
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- EXISTING TREE AND TREE PROTECTION ZONE
- EXISTING TREE AND STRUCTURAL ROOT ZONE
- EXISTING TREE TO BE REMOVED
- VEHICLE SHAKEDOWN DEVICE
- PROPOSED SEDIMENT BASIN
- PROPOSED SWALE
- PROPOSED SILT FENCE
- BARRIER FENCE
- OVERLAND FLOW PATH
- SANDRAG P/T PROTECTION
- EXISTING STORMWATER PIPE
- EXISTING SEWER
- EXISTING GAS
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING ELECTRICITY OVERHEAD
- EXISTING TELECOMMUNICATIONS
- EXISTING STORMWATER ABISILET PT
- EXISTING ELECTRICITY POLE

- NOTES:**
- FOR EROSION AND SEDIMENT CONTROL NOTES REFER DRAWING CHEW476-001
 - FOR EROSION AND SEDIMENT CONTROL DETAILS REFER DRAWING CHEW476-001
 - FOR BULK EARTHWORKS LEVELS REFER DRAWING CHEW476-001
 - MAXIMUM BATTER OF 2H:1V, TO BE CONFIRMED BY GEOTECHNICAL ENGINEER PRIOR TO BATTER CONSTRUCTION
 - ALL BATTERS TO BE STABILISED IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL NOTES
 - ALL AREAS WITHIN THE EXTENT OF WORKS MUST DRAIN ALL OVERLAND FLOW TO THE SEDIMENT BASINS PROVIDED
 - PLANS TO BE READ IN CONJUNCTION WITH THE ARBORIST REPORT TO CONFIRM THE FOLLOWING:
 - 7.1. TREE PROTECTION ZONES
 - 7.2. STRUCTURAL ROOT ZONES
 - 7.3. TREES TO BE REMOVED
 - STOCKPILE FOR BACKFILL MAX. VOLUME TO BE 8,000m³ HOWEVER, 18,000m³ WILL BE BACKFILLED IN THE RETAINING WALL AREA. BATTER TO BE BACKFILLED IN STAGES TO ACCOMMODATE REDUCED STOCKPILE SIZING.

I	FOR SUBMISSION	LAM	RET	09.11.20
H	ISSUED FOR INFORMATION	LAM	RET	02.11.20
G	ISSUED FOR INFORMATION	LAM	RET	27.10.20
F	ISSUED FOR COORDINATION	LAM	RET	29.09.20
E	70% D&C TENDER ISSUE	LAM	RET	07.08.20
D	DRAFT TENDER ISSUE	LAM	RET	23.07.20
C	SSDA ISSUE	CRD	RET	12.06.20
B	SSDA ISSUE	LAM	RET	21.03.20
A	ISSUED FOR DRAFT SSDA	LAM	RET	06.03.20
REV	DESCRIPTION	DRAWN	APPRD	DATE



GRIMSHAW
A3A

CONSULTANT	ARCHITECT
DESIGNED	LAM
VERIFIED	
APPROVED FOR TENDER	
APPROVED FOR CONSTRUCTION	

PROJECT
PARRAMATTA AQUATIC CENTRE

TITLE
EROSION AND SEDIMENT CONTROL PLAN

FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN **38574** **CI-070-001** **I**
SCALE @ A1 PROJECT No DRAWING No REV

DESIGN & CONSTRUCT NOTE:

CONTRACTOR TO NOTE STANTEC'S ROLE ON THE PROJECT IS TO PROVIDE DESIGN & CONSTRUCT D&C ENGINEERING DESIGN SERVICES. FOR CERTAINITY STANTEC DOCUMENTATION DOES NOT MAKE ANY ALLOWANCE FOR CLIENT AND/OR CONTRACTOR PROJECT COMMERCIAL RISK.

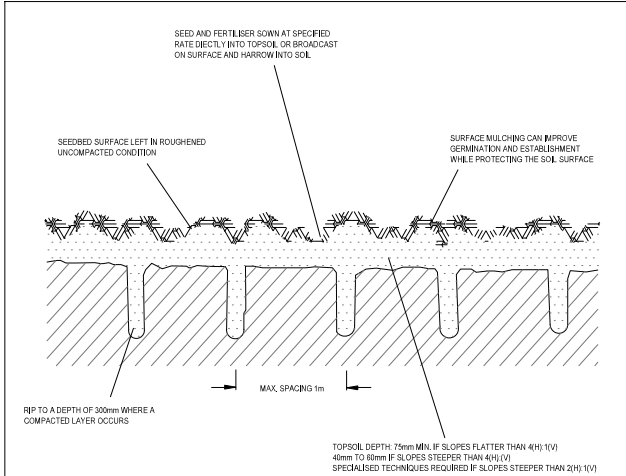
THE INFORMATION PROVIDED IS BASED UPON ARCHITECT'S CURRENT INFORMATION AND IS SUBJECT TO CHANGE THROUGHOUT DESIGN AND DEVELOPMENT BY, BUT NOT LIMITED TO, THE ADJUSTMENT OF CLIENT BRIEF, SCOPE CHANGE, SUB-CONTRACTOR DESIGN DEVELOPMENT REQUIREMENTS ETC. ALL PRICING WORKS ARE TO APPLY A CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING AND COST MANAGEMENT.

THE DOCUMENTATION PRODUCED BY STANTEC IS NOT COMPREHENSIVE (PERFORMANCE TYPE DESIGN FINALISATION AND D&C) AND WILL NOT PROVIDE ALL THE REQUIRED DETAIL NECESSARY FOR DETAILED TAKE OFF AND FINAL PRICING. IT IS LIKELY THAT ADDITIONAL COSTS WILL ARISE AS THE DESIGN AND DOCUMENTATION PROGRESSES TO COMPLETION.

THE CONTRACTOR AND/OR D&C TENDERER/SUBCONTRACTOR MUST ALLOW SUITABLE COST CONTINGENCIES AND CONSIDER THE PROGRESS AND COMPLETENESS OF THE DOCUMENTATION AT THE TIME OF PRICING. IN ORDER TO FUND THE PROJECT THROUGH COMPLETION, STANTEC ARE NOT LIABLE FOR ANY INCREASE IN COSTS DUE TO THE TENDER PRICING BEING BASED IN DOCUMENTATION THAT IS NOT COMPLETE AND/OR FULLY COMPREHENSIVE.

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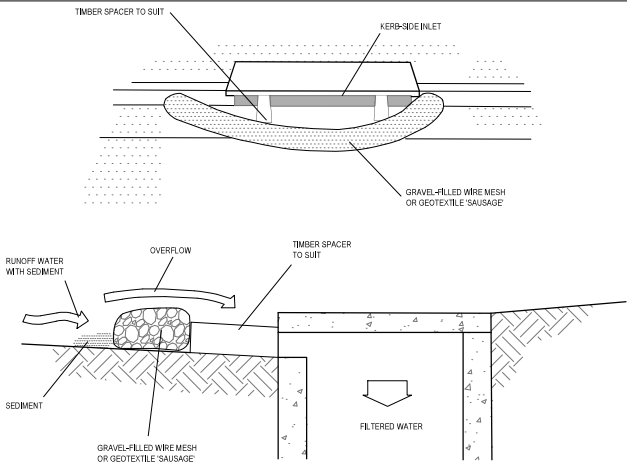


CONSTRUCTION NOTES

1. LOOSEN COMPACTED SOIL BEFORE SOWING ANY SEED. IF NECESSARY, RIP THE SOIL TO A DEPTH OF 300mm.
2. WORK THE GROUND ONLY AS MUCH AS NECESSARY TO ACHIEVE THE DESIRED TILTH AND PREPARE A GOOD SEEDBED.
3. AVOID CULTIVATION IN VERY WET OR DRY CONDITIONS.
4. CULTIVATE ON OR CLOSE TO THE CONTOUR WHERE POSSIBLE, NOT UP AND DOWN THE SLOPE.

SEEDBED PREPARATION

SD 7-1



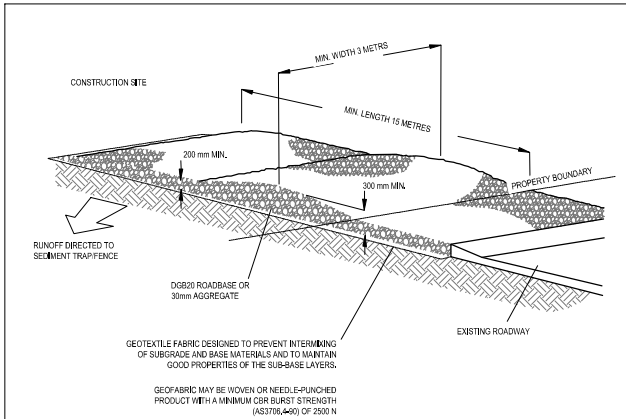
NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN APPROVED SWMP/ESCP.

CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM A ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400 mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 150mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEA, WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-ADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER

SD 6-11



CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS

SD 6-14

DESIGN & CONSTRUCT NOTE:

CONTRACTOR TO NOTE STANTEC'S ROLE ON THE PROJECT IS TO PROVIDE DESIGN & CONSTRUCT (D&C) ENGINEERING DESIGN SERVICES. FOR CERTAINITY STANTEC DOCUMENTATION DOES NOT MAKE ANY ALLOWANCE FOR CLIENT AND/OR CONTRACTOR PROJECT COMMERCIAL RISK.

THE INFORMATION PROVIDED IS BASED UPON ARCHITECT'S CURRENT INFORMATION AND IS SUBJECT TO CHANGE THROUGHOUT DESIGN AND DEVELOPMENT BY, BUT NOT LIMITED TO, THE ADJUSTMENT OF CLIENT BRIEF, SCOPE CHANGE, SUB-CONTRACTOR DESIGN DEVELOPMENT REQUIREMENTS ETC. ALL PRICING WORKS ARE TO APPLY A CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING AND COST MANAGEMENT.

THE DOCUMENTATION PRODUCED BY STANTEC IS NOT COMPREHENSIVE (PERFORMANCE TYPE DESIGN FINALISATION AND D&C) AND WILL NOT PROVIDE ALL THE REQUIRED DETAIL NECESSARY FOR DETAILED TAKE OFF AND FINAL PRICING. IT IS LIKELY THAT ADDITIONAL COSTS WILL ARISE AS THE DESIGN AND DOCUMENTATION PROGRESSES TO COMPLETION.

THE CONTRACTOR AND/OR D&C TENDERER/SUBCONTRACTOR MUST ALLOW SUITABLE COST CONTINGENCIES AND CONSIDER THE PROGRESS AND COMPLETENESS OF THE DOCUMENTATION AT THE TIME OF PRICING. IN ORDER TO FUND THE PROJECT THROUGH COMPLETION, STANTEC ARE NOT LIABLE FOR ANY INCREASE IN COSTS DUE TO THE TENDER PRICING BEING BASED IN DOCUMENTATION THAT IS NOT COMPLETE AND/OR FULLY COMPREHENSIVE.

REV	DESCRIPTION	DRAWN	APPD	DATE
F	FOR SUBMISSION	LAM	RET	09.11.20
E	70% D&C TENDER ISSUE	LAM	RET	07.08.20
D	DRAFT TENDER ISSUE	CPO	RET	23.07.20
C	SSA ISSUE	LAM	RET	12.05.20
B	SSA ISSUE	LAM	RET	31.03.20
A	ISSUED FOR DRAFT SSA	LAM	RET	06.03.20

CITY OF PARRAMATTA	GRIMSHAW A3A
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CONSULTANT	ARCHITECT/CLIENT
Stantec	DRAWN: CPO DESIGNED: LAM VERIFIED: RET 05.08.20 APPROVED FOR TENDER: - APPROVED FOR CONSTRUCTION: -

PROJECT
PARRAMATTA AQUATIC CENTRE

TITLE
EROSION AND SEDIMENT CONTROL DETAILS - SHEET 1

FOR SUBMISSION NOT FOR CONSTRUCTION

AS SHOWN	38574	CI-076-001	F
SCALE @ A1	PROJECT No	DRAWING No	REV


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AS SHOWN	38574	CI-076-002	B
SCALE @ A1	PROJECT No	DRAWING No	REV

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B	FOR SUBMISSION	LAM	RET	08.11.20					
A	ISSUED FOR COORDINATION	LAM	IAB	29.08.20					
REV	DESCRIPTION	DRAWN	APPROV.	DATE					



**CITY OF
PARRAMATTA**


GRIMSHAW

ALBA

CONSULTANT	ARCHITECT/CLEMENT
 Stantec	DESIGNER
	LAM
	DESIGNED
	LAM
	VERIFIED
	-
	APPROVED FOR TENDER
	-
	APPROVED FOR CONSTRUCTION
	-

PROJECT
PARRAMATTA AQUATIC CENTRE

TITLE
BULK EARTHWORKS SECTIONS SHEET 1

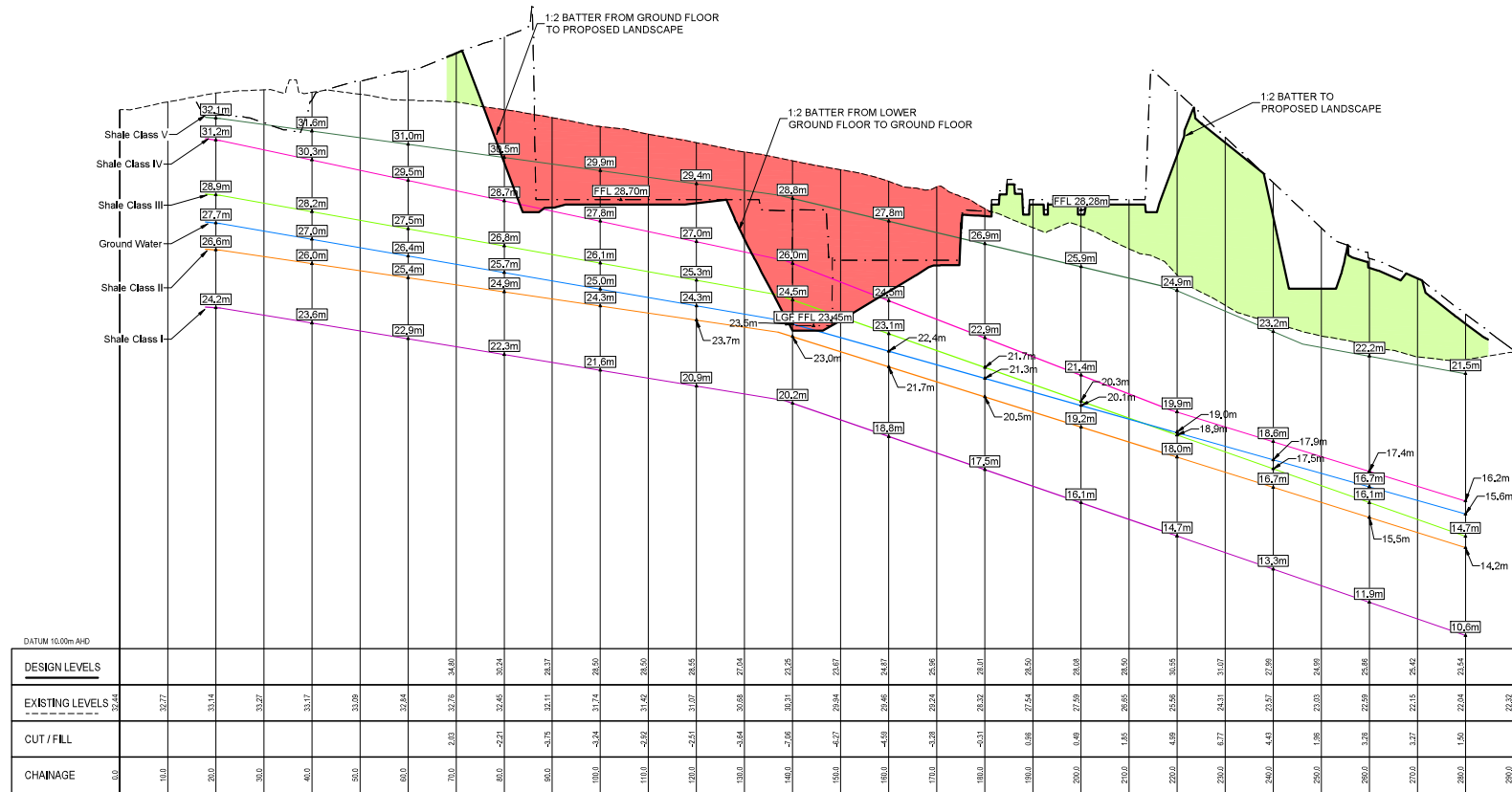


FOR SUBMISSION

NOT FOR CONSTRUCTION

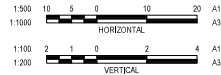
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SCALE @ A1	PROJECT No	DRAWING No	REV

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SECTION B-B (100-001)

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



REV	DESCRIPTION	DRAWN	APPD	DATE
B	FOR SUBMISSION	GLE	RET	08/11/20
A	ISSUED FOR COORDINATION	LAM	140	26/08/20

CITY OF PARRAMATTA

GRIMSHAW
A3A

CONSULTANT

ARCHITECT/ENGINEER

Stantec

PROJECT

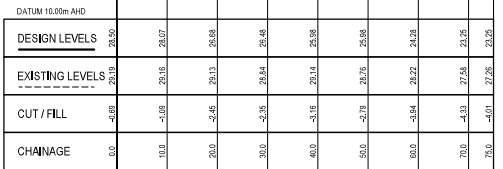
PARRAMATTA AQUATIC CENTRE

TITLE

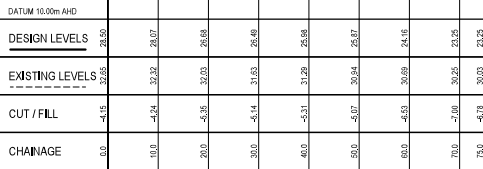
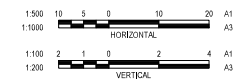
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FOR SUBMISSION
NOT FOR CONSTRUCTION

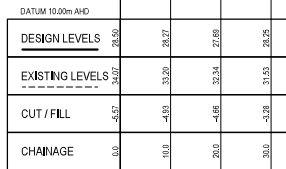
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SCALE @ A1 PROJECT No DRAWING No REV



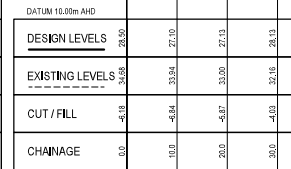
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

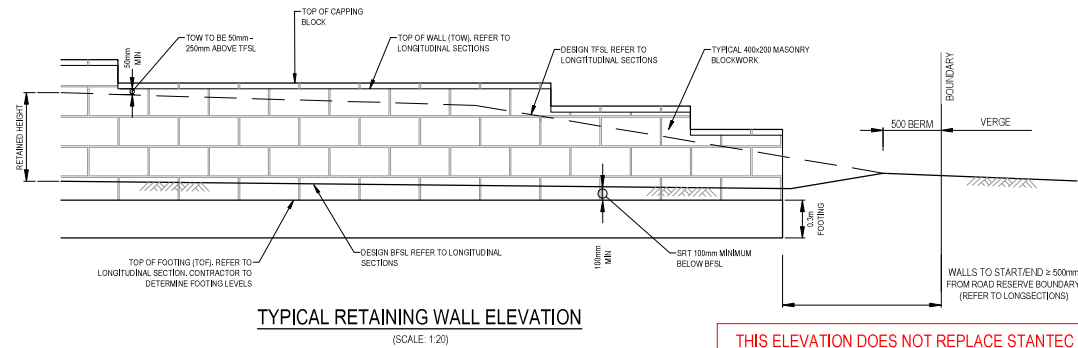
 CITY OF
PARRAMATTA

PROJECT
PARRAMATTA AQUATIC
CENTRE

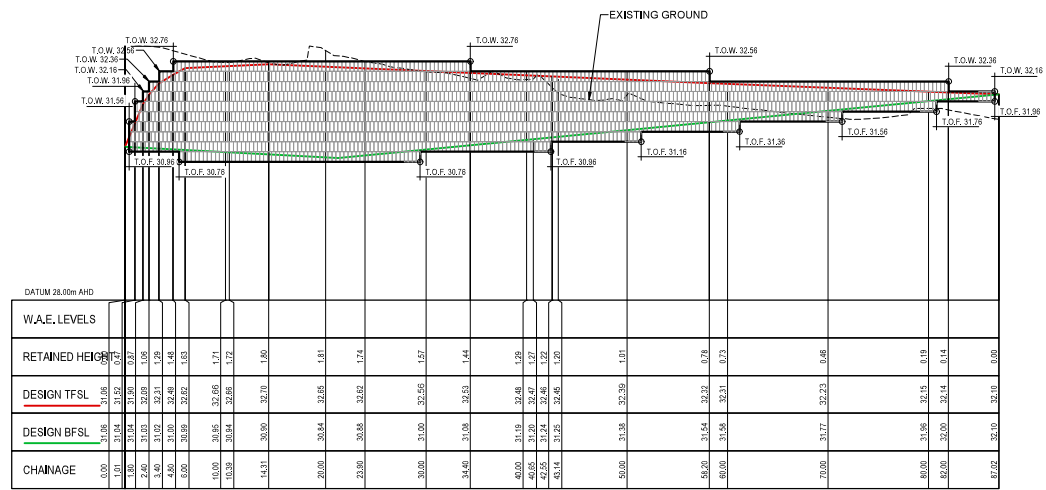
TITLE
BULK EARTHWORKS SECTIONS SHEET 3

AS SHOWN	38574	CI-103-003	B
SCALE @ A1	PROJECT No	DRAWING No	REV

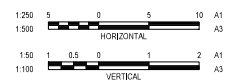
- NOTE:
- FOR ALL RETAINING WALL DETAILS REFER TO STANTEC STRUCTURAL DRAWINGS.
 - RW1 (CARPARK) IS BLOCKWORK, ALL OTHER WALLS DENOTED IN CIVIL SET ARE REINFORCED CONCRETE IN ACCORDANCE WITH STANTEC STRUCTURAL AND LANDSCAPE ARCHITECTS DRAWINGS.
 - ONLY CARPARK RETAINING WALL (RW1) LONG SECTION HAS BEEN SHOWN, FOR LEVELS OF ALL OTHER CIVIL WALLS REFER TO SITEWORKS PLANS.



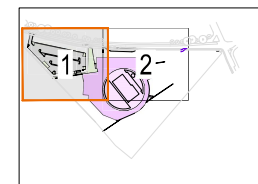
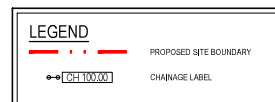
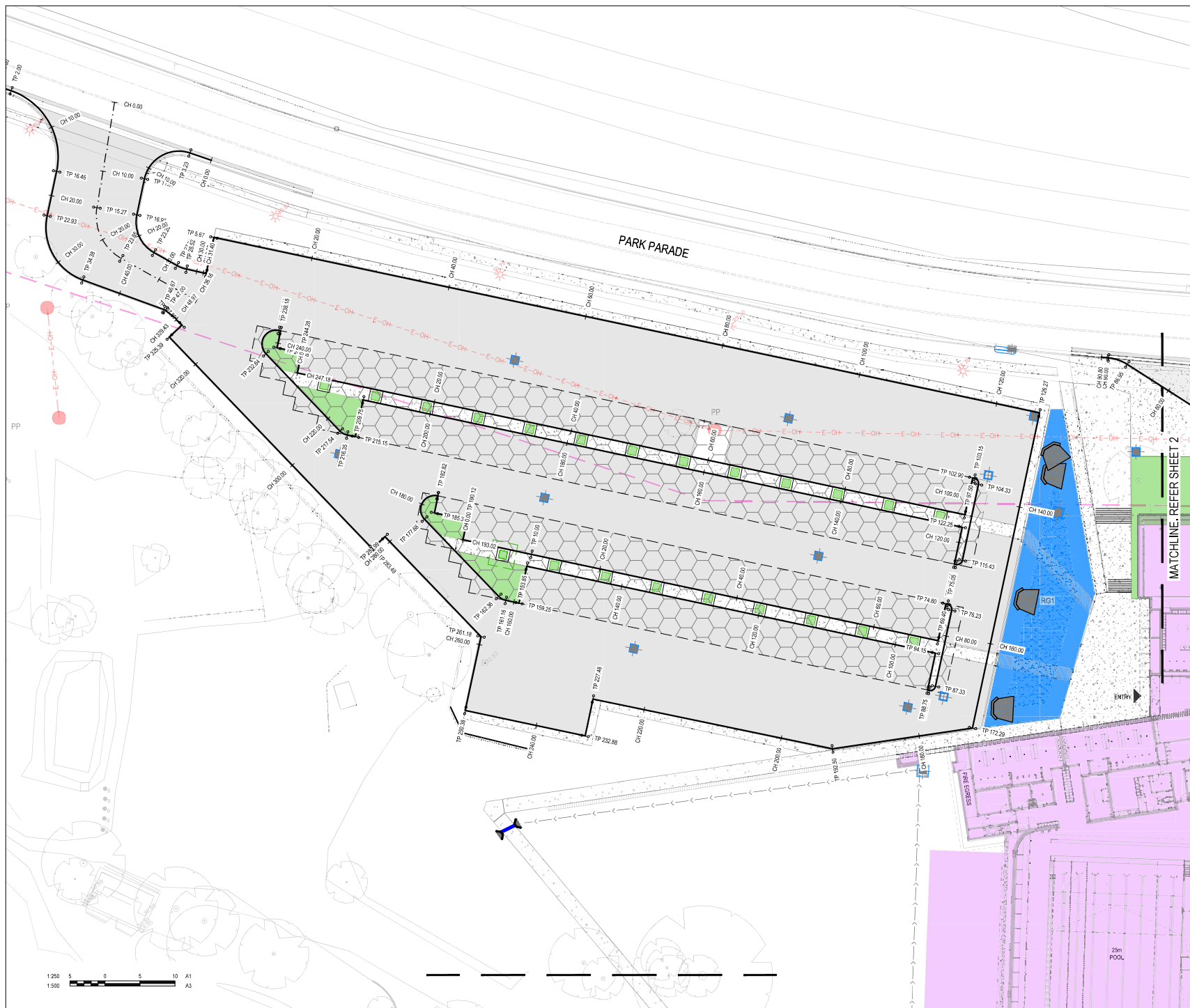
THIS ELEVATION DOES NOT REPLACE STANTEC STRUCTURAL RETAINING WALL DETAILS, REFER TO STRUCTURAL DRAWINGS.



RW 01 RETAINING WALL LONG SECTION
HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:50



CONSULTANT		ARCHITECT/CLIENT	
CITY OF PARRAMATTA		GRIMSHAW	
Stantec		A3A	
PROJECT		PARRAMATTA AQUATIC CENTRE	
TITLE		RETAINING WALL LONGSECTION	
FOR SUBMISSION		NOT FOR CONSTRUCTION	
AS SHOWN	38574	CI-202-001	B
SCALE @ A1	PROJECT No	DRAWING No	REV



KEY PLAN

B	FOR SUBMISSION				LAM	RET		05.11.	
A	70% D&C TENDER ISSUE				LAM	RET		07.08.	
REV	DESCRIPTION				DRAWN	APPR		DATE	



GRIMSHAW
A13A



ARCHITECTURAL	
DRAWN:	CPO
DESIGNED:	LAM
VERIFIED:	RET 07.08.
APPROVED FOR TENDER:	-
APPROVED FOR CONSTRUCTION:	-

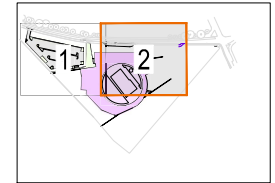
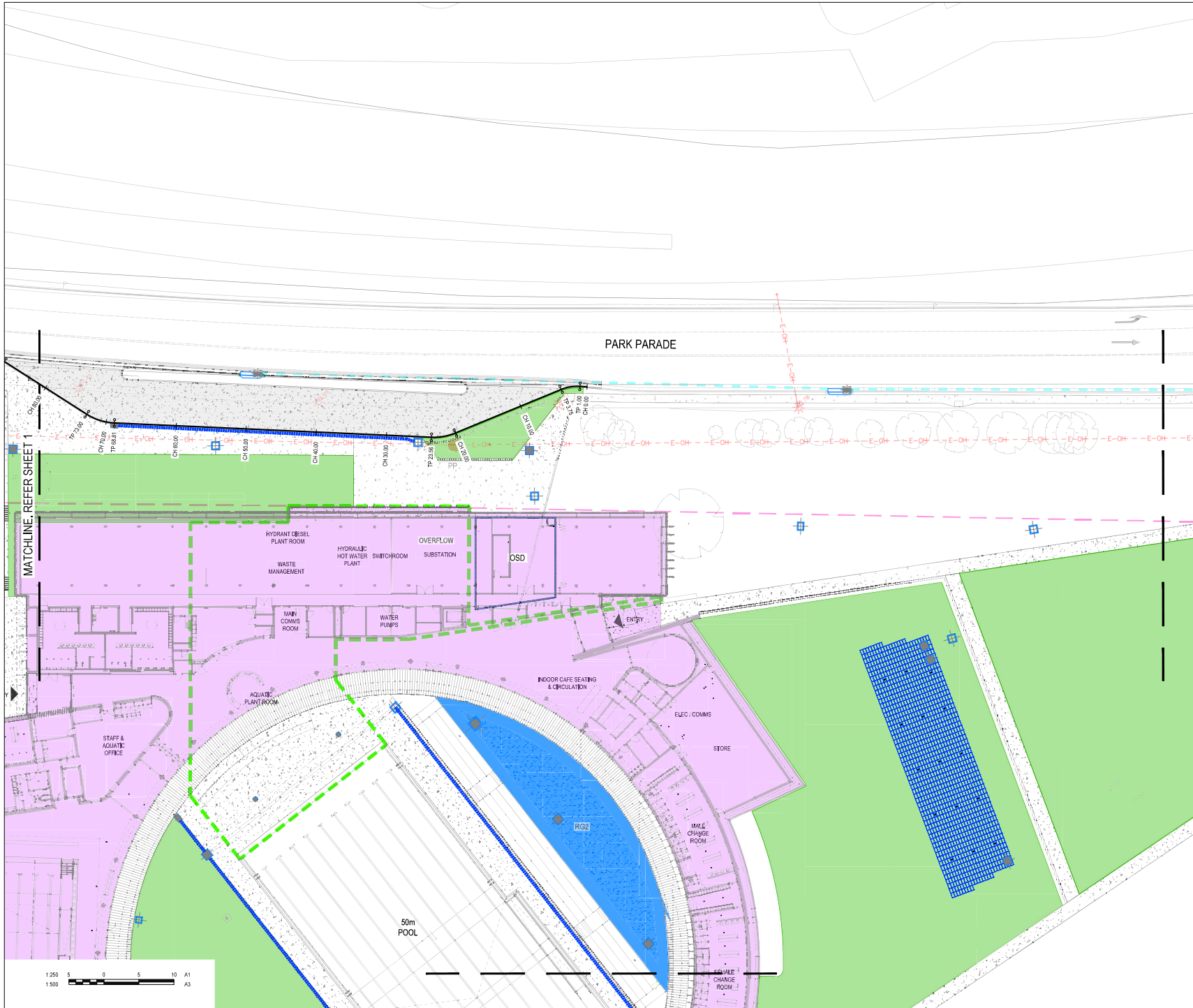
PROJECT
PARRAMATTA AQUATIC
CENTRE

TITLE
ROADWORKS ALIGNMENT SET OUT PLAN
SHEET 1



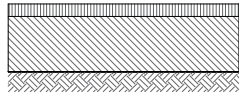
FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN	38574	CI-400-011	B
SCALE @ A1	PROJECT No	DRAWING No	RE

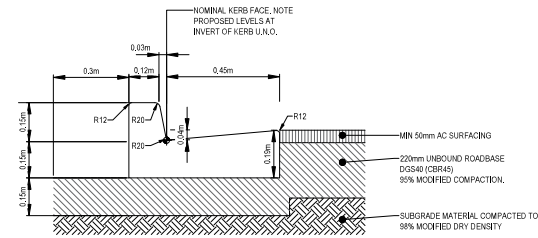


KEY PLAN
NTS

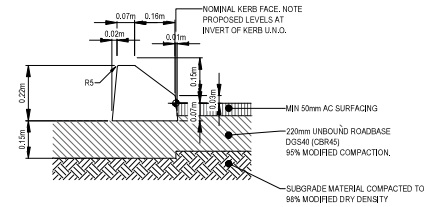
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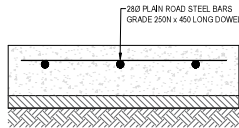
ASPHALT CARPARK PAVEMENT DETAIL
(SCALE 1:10)



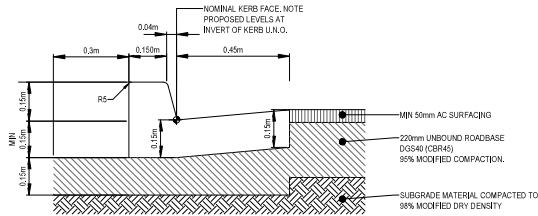
BARRIER KERB (BK) DETAIL
(SCALE 1:10)



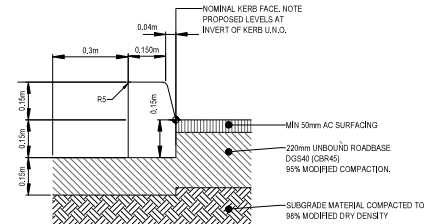
MOUNTABLE KERB (MK) DETAIL
(SCALE 1:10)



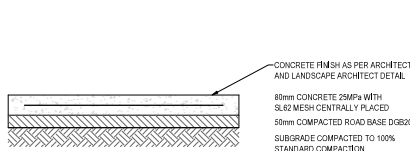
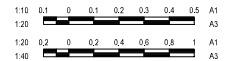
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(SCALE 1:10)



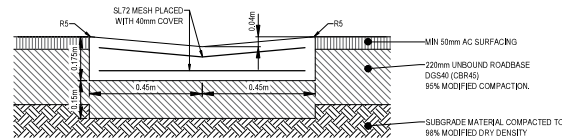
KERB AND GUTTER (K&G) DETAIL
(SCALE 1:10)



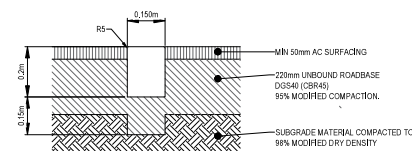
KERB ONLY (KO) DETAIL
(SCALE 1:10)



CONCRETE FOOTPATH DETAIL
(SCALE 1:10)



DISH DRAIN (DD) DETAIL
(SCALE 1:10)



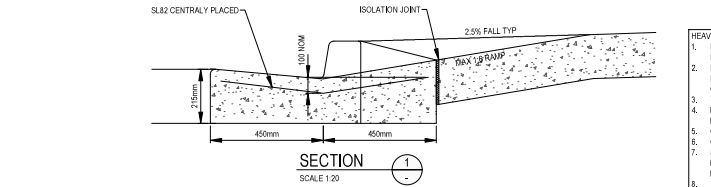
EDGE STRIP (ES) DETAIL
(SCALE 1:10)

REV	DESCRIPTION	DRAWN	APPD	DATE
F	FOR SUBMISSION	LAM	RET	09.11.20
E	70% D&C TENDER ISSUE	LAM	RET	07.08.20
D	DRAFT TENDER ISSUE	CPO	RET	23.07.20
C	SSA ISSUE	LAM	RET	12.05.20
B	SSA ISSUE	LAM	RET	31.03.20
A	ISSUED FOR DRAFT SSA	LAM	RET	06.03.20

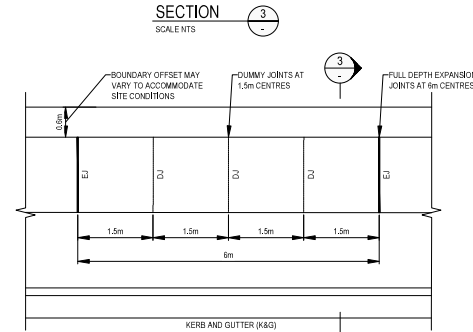
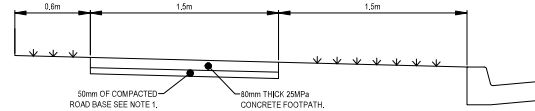
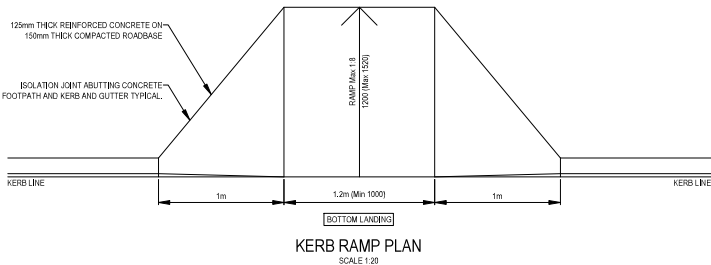
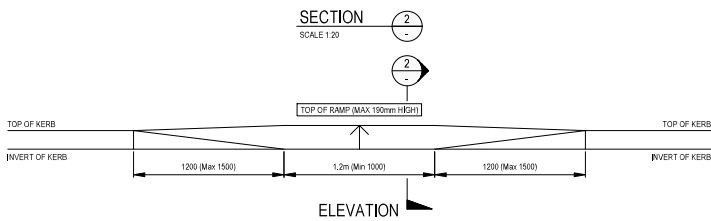
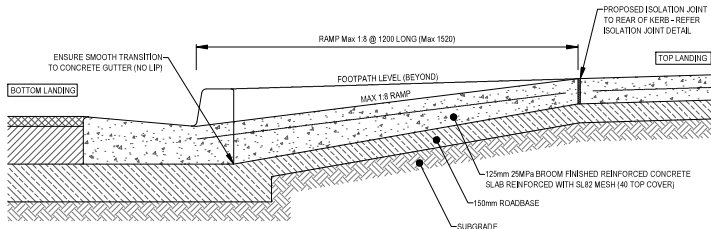
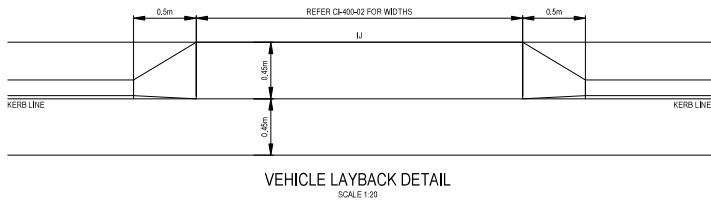
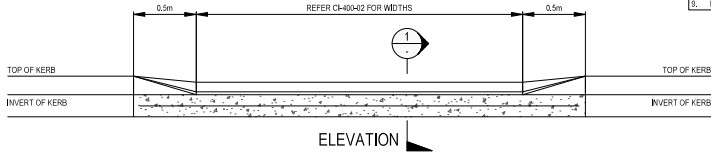
CONSULTANT	ARCHITECT/ENGINEER
CITY OF PARRAMATTA	GRIMSHAW A3A
Stantec	
PROJECT	ARCHITECT/ENGINEER
DRAWN	CPO
DESIGNED	LAM
VERIFIED	RET 06.08.20
APPROVED FOR TENDER	
APPROVED FOR CONSTRUCTION	

PARRAMATTA AQUATIC CENTRE
TITLE
ROADWORKS DETAILS SHEET 1

FOR SUBMISSION NOT FOR CONSTRUCTION			
AS SHOWN	38574	CI-406-001	F
SCALE @ AT	PROJECT No	DRAWING No	REV

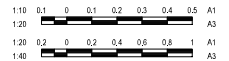


- HEAVY DUTY LAYBACK NOTES**
1. HEAVY DUTY LAYBACKS ARE TYPICALLY USED FOR ACCESSES TO LARGE RESIDENTIAL, COMMERCIAL AND INDUSTRIAL PROPERTIES.
 2. HEAVY DUTY LAYBACK SHALL CONSIST OF 150mm MINIMUM THICK REINFORCED CONCRETE WITH SL82 OVER 150mm MINIMUM THICKNESS COMPACTED APPROVED ROADBASE.
 3. THE LAYBACK SHALL BE STEEL FLOAT FINISHED.
 4. EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF 6m MAXIMUM AND 4m MINIMUM.
 5. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 25MPa MINIMUM.
 6. CONCRETE SHALL BE PLACED WITH A MAXIMUM SLUMP OF 80mm.
 7. SUBJECT TO APPROVAL FROM COUNCIL'S ENGINEER THE NOMINAL HEIGHT OF DRIVEWAY LAYBACK MAY BE LOWERED TO MINIMUM 75mm TO MEET CBS DESIGN VEHICLE REQUIREMENT.
 8. THE COUNCIL ENGINEER REQUIRES 24 HOURS NOTICE PRIOR TO POURING OF CONCRETE TO INSPECT THE FORMWORK, NO CONCRETE SHALL BE POURED UNTIL THE EXCAVATION AND FORMWORK HAVE BEEN INSPECTED.
 9. MINIMUM CONCRETE COVER TO BE 40mm UNLESS NOTED OTHERWISE.



TYPICAL PAVEMENT JOINTING DETAIL
SCALE NTS

- NOTES:**
1. BASE MATERIAL IS TO BE DGB20 OR SIMILAR. COMPACT TO 100% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH A.S. 1289.5.1.1-2003
 2. CONCRETE IS TO BE 25MPa IN ACCORDANCE WITH AS 1379-2007 AS AS 3600-2008.
 3. PROVIDE FULL DEPTH EXPANSION JOINT 10mm WIDE AT 6m SPACING. PROVIDE TOOLED DUMMY JOINTS 10mm WIDE BY 10mm DEEP AT 1.5m SPACING.
 4. ALL SURFACES TO BE BROOM FINISHED AT 90° TO DIRECTION OF TRAVEL AND EDGES TO BE ROUNDED TO 20 RADIUS USING AN EDGING TOOL. (NO WOOD FLOAT FINISH PERMITTED)
 5. ADJOINING NATURAL FOOTWAY IS TO BE CUT OR FILLED WITH TOPSOIL AS REQUIRED TO GRADE EVENLY TO THE FOOTPATH. ALL OBTURED AREAS TO BE TOPSOILED WITH 75mm APPROVED LOAM AND TURFED AS SOON AS PRACTICABLE TO ENCOURAGE REVEGETATION AND MINIMISE SOIL EROSION FROM SITE, OR REINSTATED AS DIRECTED BY COUNCIL'S INSPECTOR OR PROJECT MANAGER.
 6. FOOTPATH IS TO BE A CONSTANT HEIGHT ABOVE TOP OF KERB WHERE POSSIBLE. TRANSITIONS IN GRADE TO MATCH EXISTING VEHICULAR FOOTWAY CROSSING (VFC'S) ARE NOT TO EXCEED A GRADE OF 1 IN 14 TO COMPLY WITH AS 1428.1
 7. FOOTPATH WIDTH AND CROSS FALL AS SHOWN ABOVE UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT / PROJECT MANAGER.
 8. PROVIDE ARTICULATED JOINT OR SIMILAR IF FOOTPATH IS ADJACENT TO TREES AND WHERE NON-UNIFORM SOIL MOVEMENT IS EXPECTED.



REV	DESCRIPTION	DRAWN	APPD	DATE
A	FOR SUBMISSION	LAM	RET	08/11/20
B	70% D&C TENDER ISSUE	LAM	RET	07/08/20

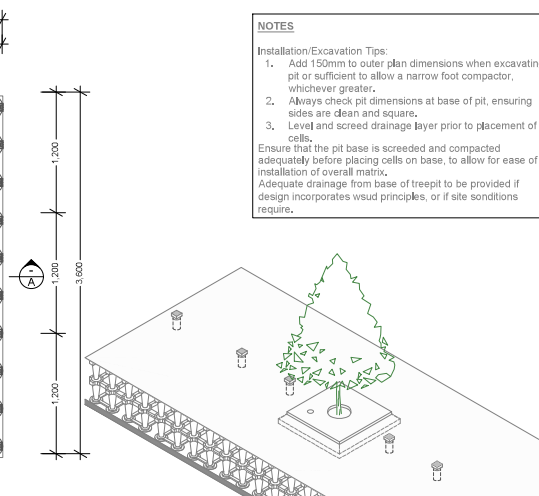


GRIMSHAW
A3A

CONSULTANT	ARCHITECT/ENGINEER
PROJECT	DESIGNED
PARRAMATTA AQUATIC CENTRE	LAM
TITLE	VERIFIED
ROADWORKS DETAILS SHEET 2	RET
	APPROVED FOR TENDER
	RET
	APPROVED FOR CONSTRUCTION
	RET

FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN	38574	CI-406-002	B
SCALE @ A1	PROJECT No	DRAWING No	REV

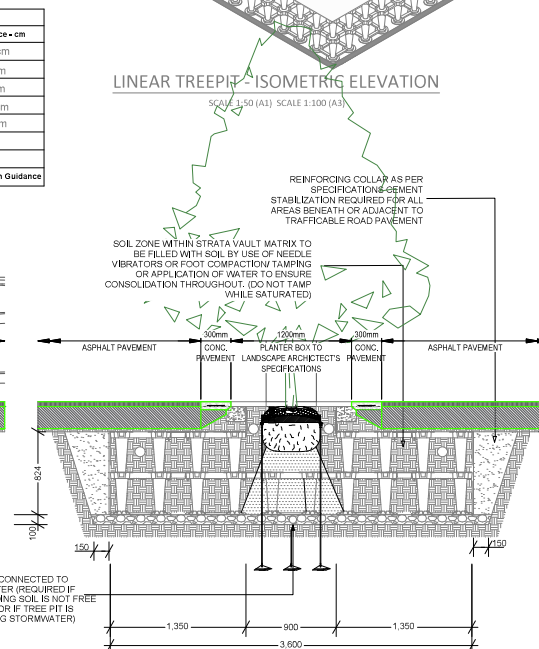


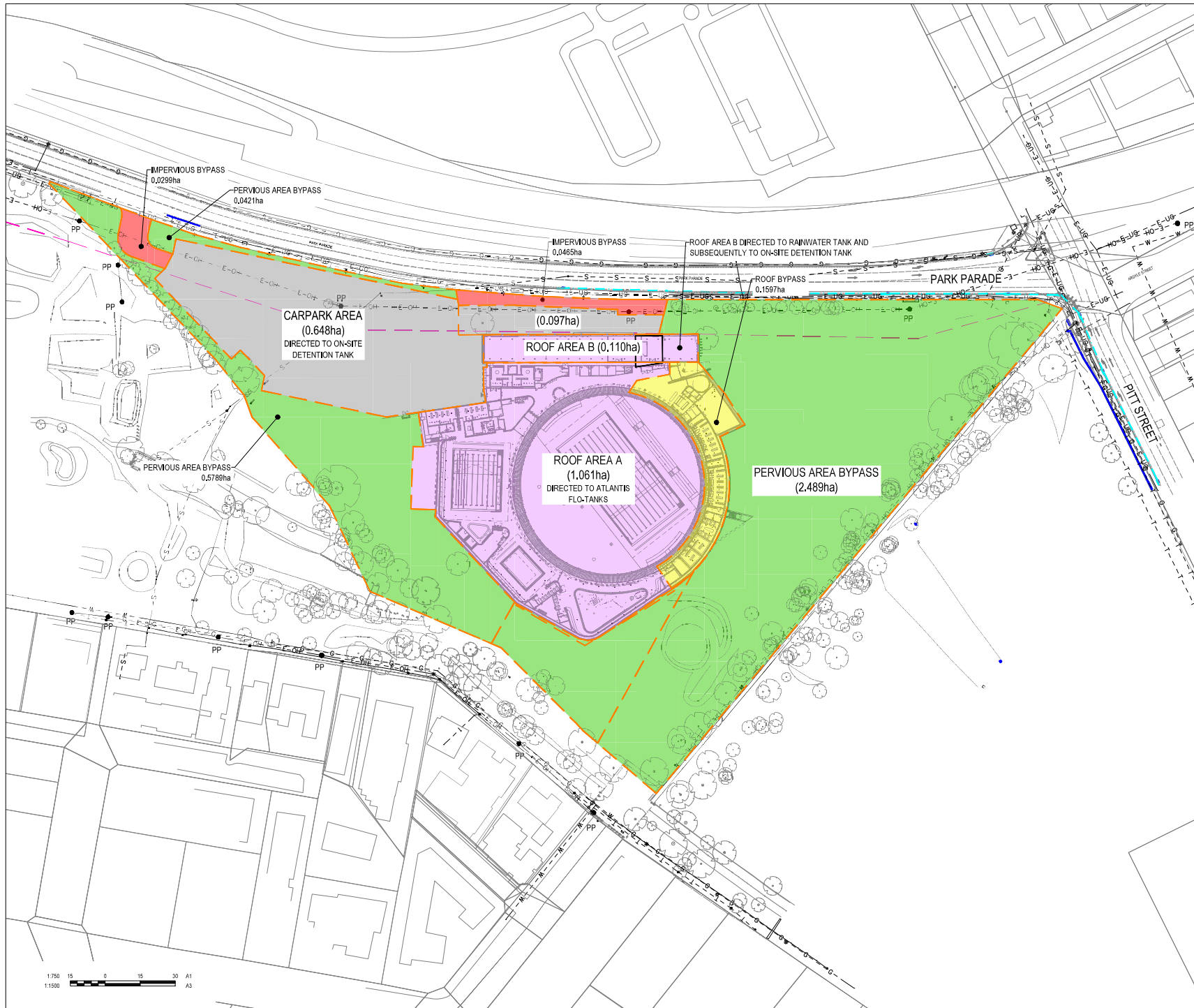
1. Add 150mm to outer plan dimensions when excavating pit or sufficient to allow a narrow foot compactor, whichever greater.
2. Always check pit dimensions at base of pit, ensuring sides are clean and square.
3. Level and screed drainage layer prior to placement of cells.

Ensure that the pit base is screeded and compacted adequately before placing cells on base, to allow for ease of installation of overall matrix.

Adequate drainage from base of treepit to be provided if design incorporates weed principles, or if site conditions require.

SmartCertify is the approved ITP and witness-point platform, mandatory for all Citygreen tree pits. Witnesspoint photos to be uploaded via tablet or smartphone, capturing GIS coordinates. Refer specification for full details, or visit www.citygreen.com/compliance.

SCALE 001
9/11/2020 5:17:26 PM



LEGEND

- PROPOSED SITE BOUNDARY
- ELECTRICAL EASEMENT
- ROOF AREA CATCHMENT
- ROOF BYPASS CATCHMENT
- CARPARK AREA CATCHMENT
- LANDSCAPE AREA CATCHMENT
- IMPERVIOUS CATCHMENT AREA
- PROPOSED SURFACE CONTOUR
- EXISTING TREE
- PROPOSED TREE

REV	DESCRIPTION	DRAWN	APPD	DATE
A	DRAFT TENDER ISSUE	CPO	RET	23.07.20
B	70% DMC TENDER ISSUE	LAM	RET	07.08.20
C	ISSUED FOR COORDINATION	LAM	RET	26.08.20
D	FOR SUBMISSION	LAM	RET	05.11.20

CITY OF PARRAMATTA

GRIMSHAW A3A

Stantec

CONSULTANT

DRAWN	CPO
DESIGNED	LAM
VERIFIED	RET 05.08.20
APPROVED FOR TENDER	
APPROVED FOR CONSTRUCTION	

PROJECT

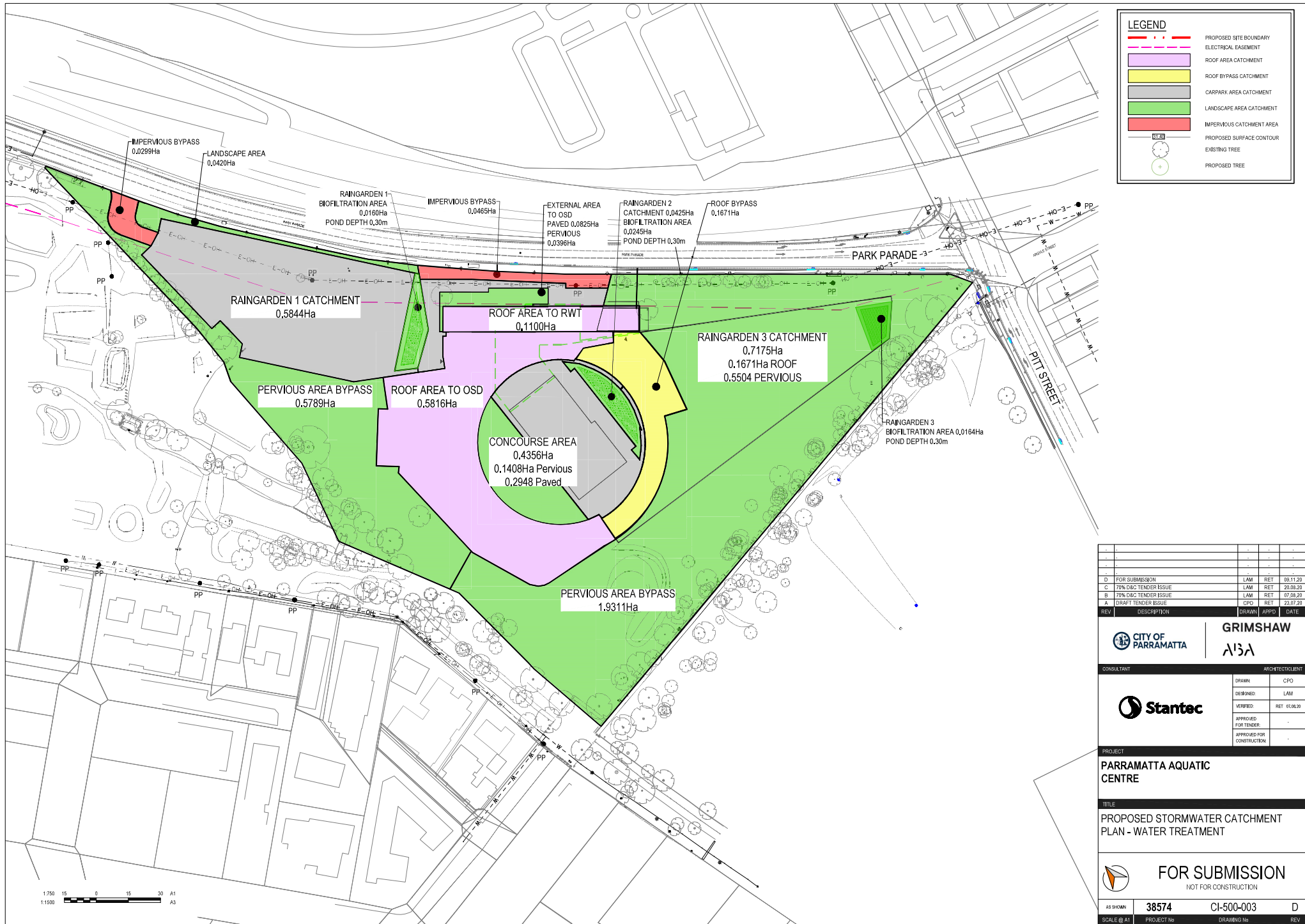
PARRAMATTA AQUATIC CENTRE

TITLE



PROPOSED STORMWATER DRAINAGE CATCHMENT PLAN


FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN	38574	CI-500-002	D
SCALE @ A1	PROJECT No	DRAWING No	REV



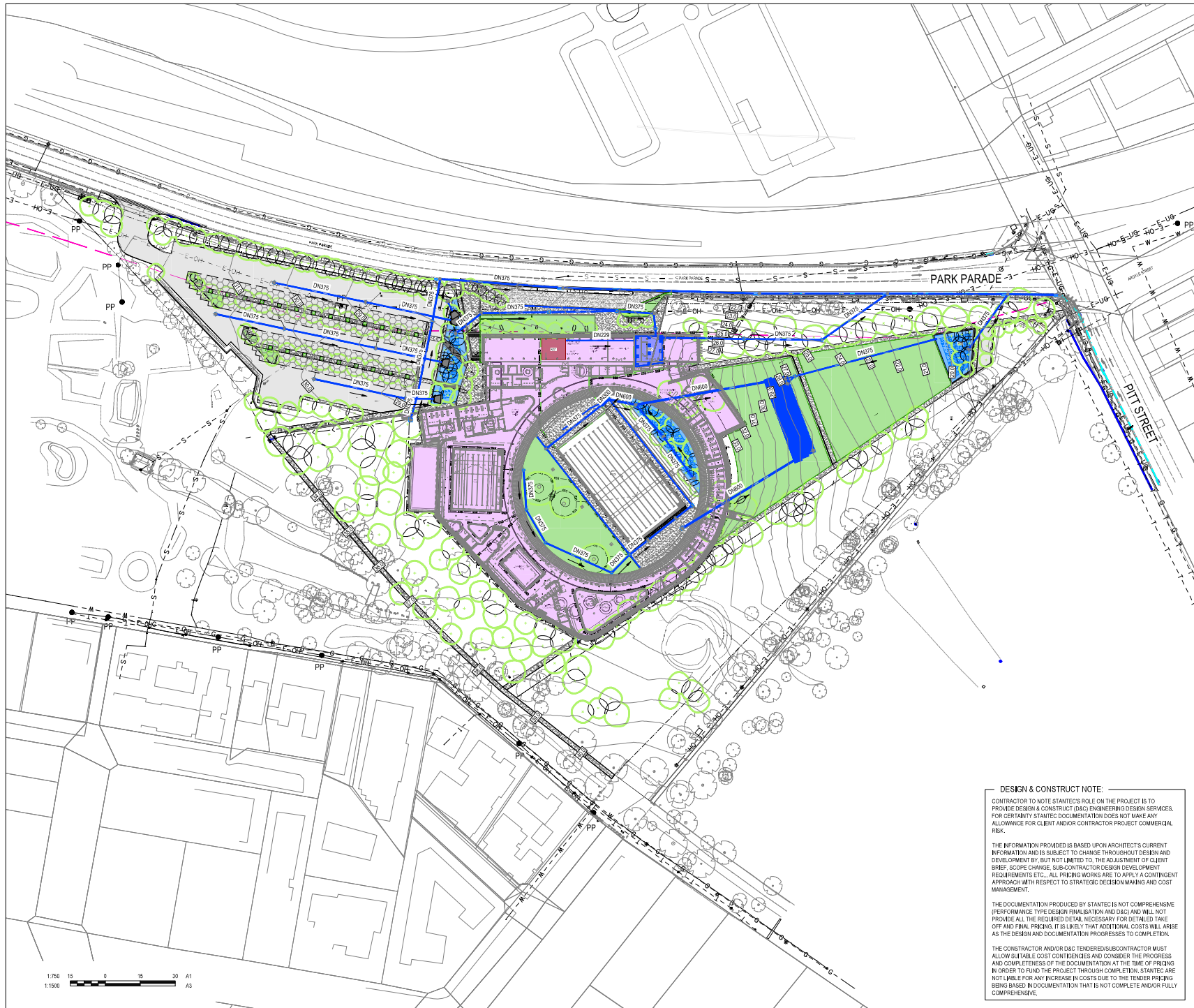
D	FOR SUBMISSION					LAM	RET	09.11.20	
C	70% D&C TENDER ISSUE					LAM	RET	20.06.20	
B	70% D&C TENDER ISSUE					LAM	RET	07.06.20	
A	DRAFT TENDER ISSUE					CPO	RET	23.07.20	
REV	DESCRIPTION					DRAWN	APPD	DATE	

 CITY OF PARRAMATTA		GRIMSHAW A3A	
CONSULTANT		ARCHITECT/CLIENT	
 Stantec		DRAWN	CPO
		DESIGNED	LAM
		VERIFIED	RET 05.08.20
		APPROVED FOR TENDER	
		APPROVED FOR CONSTRUCTION	

PROJECT			
PARRAMATTA AQUATIC CENTRE			
TITLE			
PROPOSED STORMWATER CATCHMENT PLAN - WATER TREATMENT			
			
FOR SUBMISSION NOT FOR CONSTRUCTION			
AS SHOWN	38574	CI-500-003	D
SCALE @ A1	PROJECT No	DRAWING No	REV

38574-CI-500-003.dwg

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LEGEND

PROPOSED SITE BOUNDARY

ELECTRICAL EASEMENT

PROPOSED BUILDING

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE PAVEMENT

OSD

PROPOSED ON-SITE DETENTION TANK

RWT

PROPOSED RAINWATER TANK

RG

PROPOSED RAINGARDEN

117.2

PROPOSED SURFACE CONTOUR

31.40

EXISTING SURFACE CONTOUR

EXISTING TREE

PROPOSED TREE

PROPOSED STORMWATER PIPE

PROPOSED GRATED DRAIN

SSD

PROPOSED SUBSOL DRAIN

EXISTING SWALE

EXISTING STORMWATER PIPE

S

EXISTING SEWER

G

EXISTING GAS

W

EXISTING WATER

E-UG

EXISTING ELECTRICITY OVERHEAD

E-OH

EXISTING TELECOMMUNICATIONS

COMS

PROPOSED GRATED INLET FIT TO BE FITTED WITH SPFL STORMSACK OR APPROVED EQUIVALENT

PROPOSED JUNCTION FIT

EXISTING STORMWATER KERB INLET FIT

PP

EXISTING ELECTRICITY POLE

EXISTING ELECTRICITY POLE WITH LIGHT

ROCK HEADWALL

NOTE
GEOLOGICAL TESTING TO-DATE HAS CONFIRMED THE PRESENCE OF GROUNDWATER ON-SITE. SUBSOL DRAINAGE HAS BEEN PROVIDED AROUND ALL STRUCTURES BELOW THE APPROXIMATE GROUNDWATER TABLE LEVEL TO CONVEY GROUNDWATER IN A SIMILAR PATTERN TO THE EXISTING CONDITION.
A GEOTECHNICAL ENGINEER IS TO CONFIRM ALL DRAINAGE MEASURES PRIOR TO CONSTRUCTION.

DESIGN & CONSTRUCTION NOTE:
CONTRACTOR TO NOTE STANTEC'S ROLE ON THE PROJECT IS TO PROVIDE DESIGN & CONSTRUCTION (D&C) ENGINEERING DESIGN SERVICES. FOR CERTAINITY STANTEC DOCUMENTATION DOES NOT MAKE ANY ALLOWANCE FOR CLIENT AND/OR CONTRACTOR PROJECT COMMERCIAL RISK.
THE INFORMATION PROVIDED IS BASED UPON ARCHITECT'S CURRENT INFORMATION AND IS SUBJECT TO CHANGE THROUGHOUT DESIGN AND DEVELOPMENT BY, BUT NOT LIMITED TO, THE ADJUSTMENT OF CLIENT BRIEF, SCOPE CHANGE, SUB-CONTRACTOR DESIGN DEVELOPMENT REQUIREMENTS ETC. ALL PRICING WORKS ARE TO APPLY A CONTINGENT APPROACH WITH RESPECT TO STRATEGIC DECISION MAKING AND COST MANAGEMENT.
THE DOCUMENTATION PRODUCED BY STANTEC IS NOT COMPREHENSIVE (PERFORMANCE TYPE DESIGN FINALISATION AND D&C) AND WILL NOT PROVIDE ALL THE REQUIRED DETAIL NECESSARY FOR DETAILED TAKE OFF AND FINAL PRICING. IT IS LIKELY THAT ADDITIONAL COSTS WILL ARISE AS THE DESIGN AND DOCUMENTATION PROGRESSES TO COMPLETION.
THE CONTRACTOR AND/OR D&C TENDERER/SUBCONTRACTOR MUST ALLOW SUITABLE COST CONTINGENCIES AND CONSIDER THE PROGRESS AND COMPLETENESS OF THE DOCUMENTATION AT THE TIME OF PRICING IN ORDER TO FUND THE PROJECT THROUGH COMPLETION. STANTEC ARE NOT LIABLE FOR ANY INCREASE IN COSTS DUE TO THE TENDER PRICING BEING BASED IN DOCUMENTATION THAT IS NOT COMPLETE AND/OR FULLY COMPREHENSIVE.

F	FOR SUBMISSION	LAM	RET	09.11.20
E	ISSUED FOR COORDINATION	LAM	RET	29.09.20
D	70% D&C TENDER ISSUE	LAM	RET	07.08.20
C	SSDA ISSUE	LAM	RET	12.05.20
B	SSDA ISSUE	LAM	RET	31.03.20
A	ISSUED FOR DRAFT SSDA	LAM	RET	06.03.20
REV	DESCRIPTION	DRAWN	APPD	DATE

GRIMSHAW
A3A

ARCHITECT

CONSULTANT

ARCHITECT

PROJECT

PARRAMATTA AQUATIC CENTRE

TITLE

STORMWATER DRAINAGE PLAN SITE WIDE

FOR SUBMISSION

NOT FOR CONSTRUCTION

AS SHOWN

38574

CI-520-001

F

SCALE @ A1

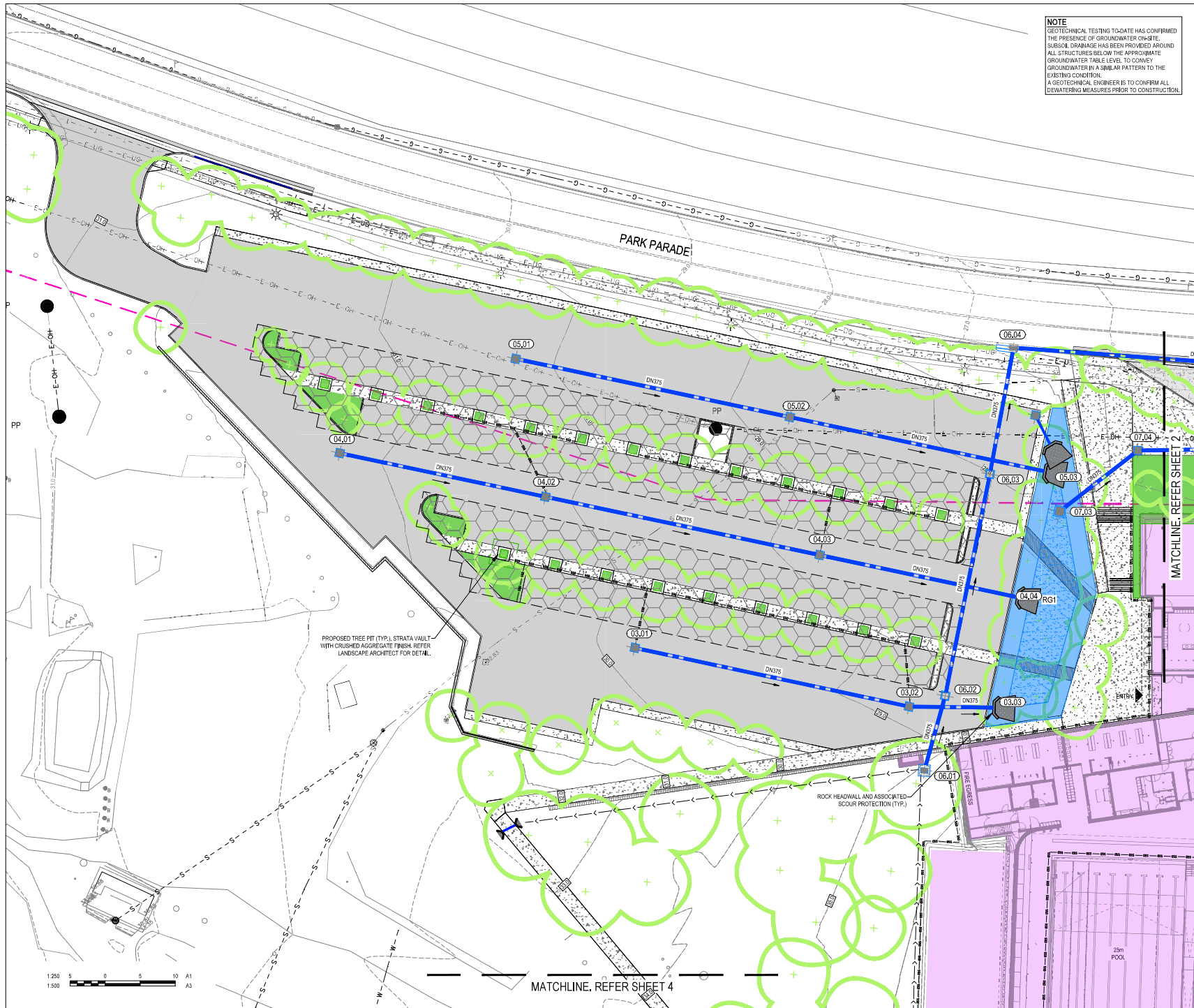
PROJECT No

DRAWING No

REV

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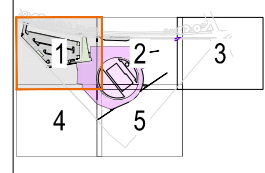
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NOTE
GEOTECHNICAL TESTING TO DATE HAS CONFIRMED THE PRESENCE OF GROUNDWATER ON-SITE. SUBSOL DRAINAGE HAS BEEN PROVIDED AROUND ALL STRUCTURES BELOW THE APPROXIMATE GROUNDWATER TABLE LEVEL TO CONVEY GROUNDWATER IN A SIMILAR PATTERN TO THE EXISTING CONDITION. A GEOTECHNICAL ENGINEER IS TO CONFIRM ALL DEWATERING MEASURES PRIOR TO CONSTRUCTION.

LEGEND

- PROPOSED SITE BOUNDARY
- ELECTRICAL EASEMENT
- PROPOSED BUILDING
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- OSD
- RWT
- RG
- PROPOSED RAINWATER TANK
- PROPOSED RAINGARDEN
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- EXISTING TREE
- PROPOSED TREE
- PROPOSED STORMWATER PIPE
- PROPOSED GRATED DRAIN
- PROPOSED SUBSOL DRAIN
- PROPOSED SWALE
- EXISTING STORMWATER PIPE
- EXISTING SEWER
- EXISTING GAS
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING ELECTRICITY OVERHEAD
- EXISTING TELECOMMUNICATIONS
- PROPOSED GRATED INLET FIT TO BE FITTED WITH SPFL STORMSACK OR APPROVED EQUIVALENT
- PROPOSED JUNCTION FIT
- EXISTING STORMWATER KERB INLET FIT
- EXISTING ELECTRICITY POLE
- EXISTING ELECTRICITY POLE WITH LIGHT
- ROCK HEADWALL



S	FOR SUBMISSION	LAM	RET	09.11.20
F	ISSUED FOR COORDINATION	LAM	RET	29.09.20
E	70% DAC TENDER ISSUE	LAM	RET	07.08.20
D	ISSUED FOR INFORMATION	LAM	RET	16.07.20
C	SSDA ISSUE	LAM	RET	12.06.20
B	SSDA ISSUE	LAM	RET	31.05.20
A	ISSUED FOR DRAFT SSDA	LAM	RET	06.03.20

CITY OF PARRAMATTA

GRIMSHAW
A3A

Stantec

CONSULTANT	ARCHITECT
DRAWN	CPO
DESIGNED	LAM
VERIFIED	RET 02.08.20
APPROVED FOR TENDER	
APPROVED FOR CONSTRUCTION	

PROJECT
PARRAMATTA AQUATIC CENTRE

TITLE
STORMWATER DRAINAGE PLAN SHEET 1

FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN
SCALE @ A1
PROJECT No
DRAWING No
REV

38574
CI-520-011
G

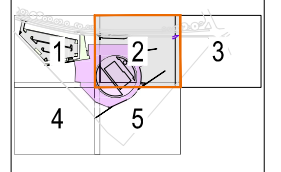
38574-CI-520-011.dwg

01/10/2020 5:28:08 PM

NOTE
GEO-TECHNICAL TESTING TO-DATE HAS CONFIRMED THE PRESENCE OF GROUNDWATER ON-SITE. SUBSOL DRAINAGE HAS BEEN PROVIDED AROUND ALL STRUCTURES BELOW THE APPROXIMATE GROUNDWATER TABLE LEVEL TO CONVEY GROUNDWATER IN A SIMILAR PATTERN TO THE EXISTING CONDITION.
A GEO-TECHNICAL ENGINEER IS TO CONFIRM ALL DEWATERING MEASURES PRIOR TO CONSTRUCTION.

LEGEND

- PROPOSED SITE BOUNDARY
- ELECTRICAL EASEMENT
- PROPOSED BUILDING
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- OSD
- RWT
- RG
- PROPOSED RAINWATER TANK
- PROPOSED RAINGARDEN
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- EXISTING TREE
- PROPOSED TREE
- PROPOSED STORMWATER PIPE
- PROPOSED GRATED DRAIN
- PROPOSED SUBSOL DRAIN
- PROPOSED SWALE
- EXISTING STORMWATER PIPE
- EXISTING SEWER
- EXISTING GAS
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING ELECTRICITY OVERHEAD
- EXISTING TELECOMMUNICATIONS
- PROPOSED GRADED INLET FIT TO BE FITTED WITH SPEL STORMSACK OR APPROVED EQUIVALENT
- PROPOSED JUNCTION FIT
- EXISTING STORMWATER KERB INLET FIT
- EXISTING ELECTRICITY POLE
- EXISTING ELECTRICITY POLE WITH LIGHT
- ROCK HEADWALL



1	70% DMC TENDER ISSUE	LAM	RET	07.06.20
2	DRAFT TENDER ISSUE	CPO	RET	23.07.20
3	ISSUED FOR INFORMATION	LAM	RET	16.07.20
4	ISSUED FOR INFORMATION	LAM	RET	13.07.20
5	CDM ISSUE	LAM	RET	12.06.20
6	FOR SUBMISSION	LAM	RET	09.11.20
7	ISSUED FOR COORDINATION	LAM	RET	26.06.21
REV	DESCRIPTION	DRAWN	APPD	DATE

CITY OF PARRAMATTA

GRIMSHAW

A3A

CONSULTANT	ARCHITECT/ENGINEER
Stantec	CPO
DRAWN	LAM
DESIGNED	RET
VERIFIED	RET
APPROVED FOR TENDER	
APPROVED FOR CONSTRUCTION	

PROJECT

PARRAMATTA AQUATIC CENTRE

TITLE

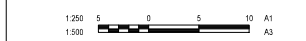
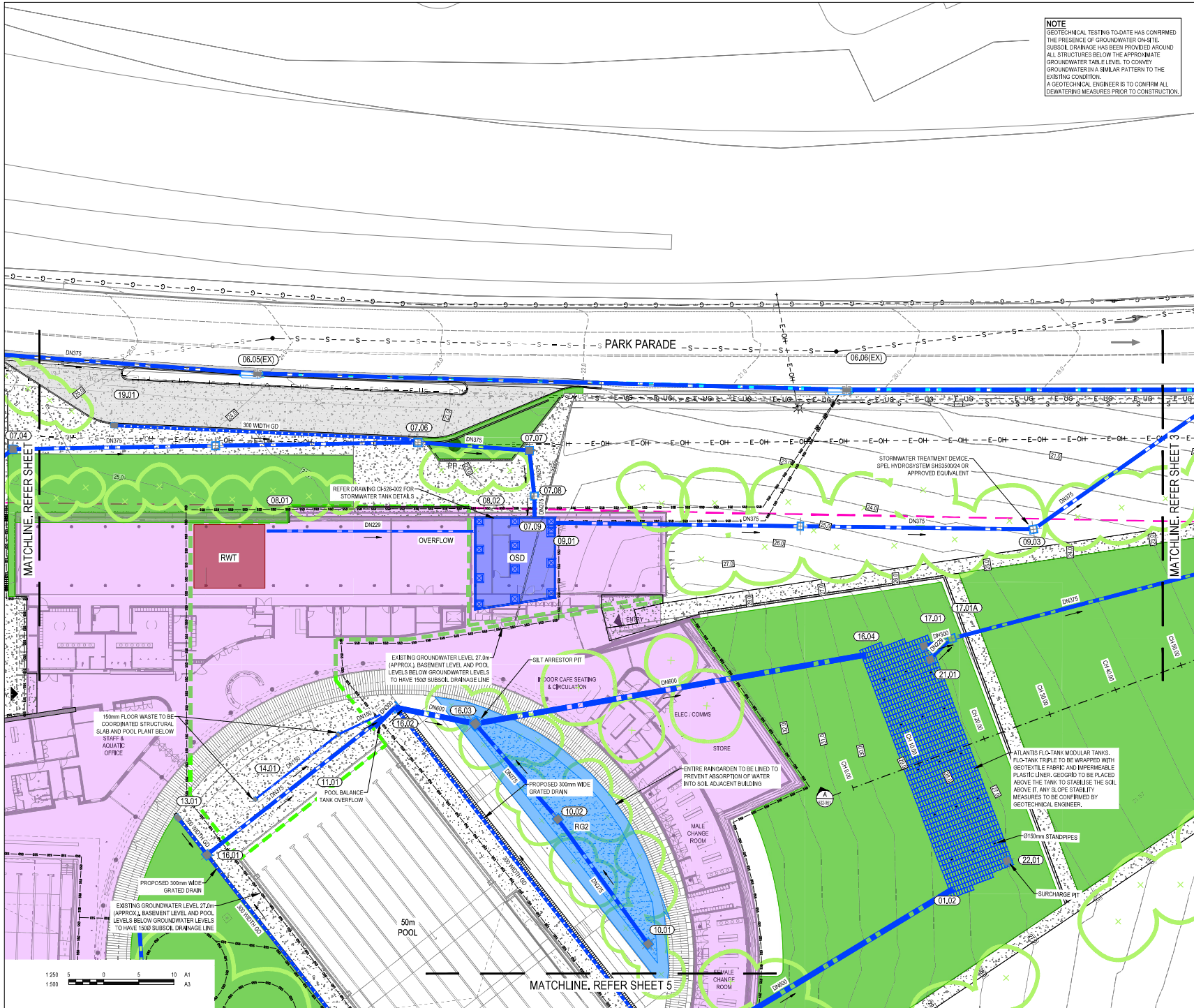
STORMWATER DRAINAGE PLAN SHEET 2

FOR SUBMISSION

NOT FOR CONSTRUCTION

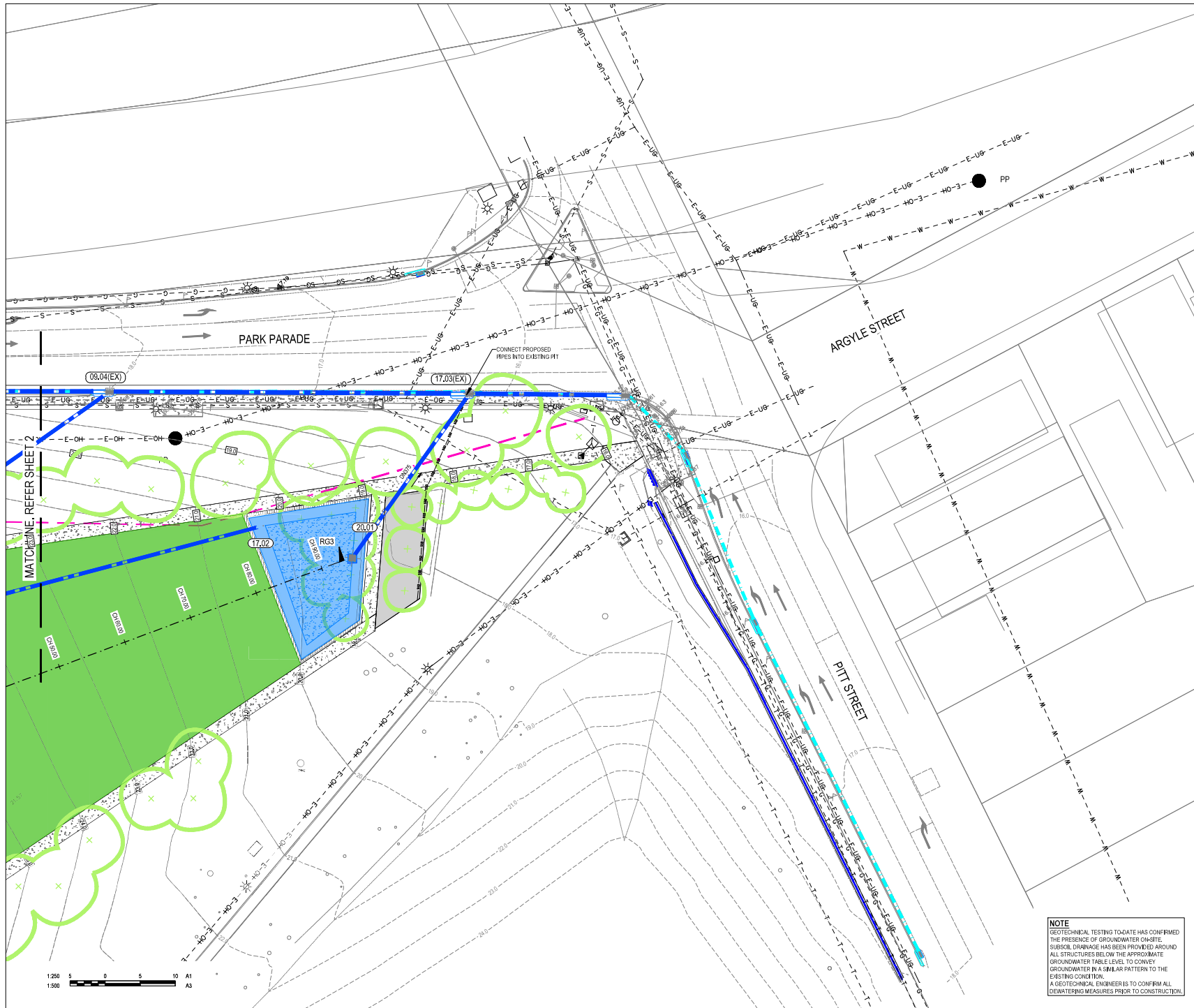
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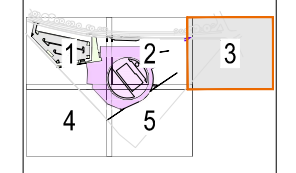
38574-CI-520-012.dwg

0/1/2020 5:28:28 PM



LEGEND

[Red dashed line]	PROPOSED SITE BOUNDARY
[Pink dashed line]	ELECTRICAL EASEMENT
[Pink solid line]	PROPOSED BUILDING
[Grey solid line]	PROPOSED ASPHALT PAVEMENT
[Grey hatched area]	PROPOSED CONCRETE PAVEMENT
[Blue box with 'OSD']	PROPOSED ON-SITE DETENTION TANK
[Blue box with 'RWT']	PROPOSED RAINWATER TANK
[Blue box with 'RG']	PROPOSED RAINGARDEN
[Blue line with '17.02']	PROPOSED SURFACE CONTOUR
[Dashed line with '31.40']	EXISTING SURFACE CONTOUR
[Green circle]	EXISTING TREE
[Green circle with cross]	PROPOSED TREE
[Blue line with 'SSD']	PROPOSED STORMWATER PIPE
[Blue line with 'SSD']	PROPOSED GRATED DRAIN
[Blue line with 'SSD']	PROPOSED SUBSOIL DRAIN
[Blue line with 'SSD']	PROPOSED SWALE
[Red line with 'S']	EXISTING STORMWATER PIPE
[Red line with 'S']	EXISTING SEWER
[Red line with 'G']	EXISTING GAS
[Red line with 'W']	EXISTING WATER
[Red line with 'E-UG']	EXISTING ELECTRICITY
[Red line with 'E-OM']	EXISTING TELECOMMUNICATIONS
[Red line with 'COMS']	EXISTING ELECTRICITY OVERHEAD
[Blue box with 'J']	PROPOSED GRATED INLET FIT TO BE FITTED WITH SPEL STORMSACK OR APPROVED EQUIVALENT
[Blue box with 'J']	PROPOSED JUNCTION FIT
[Blue box with 'J']	EXISTING STORMWATER KERB INLET FIT
[Black dot with 'PP']	EXISTING ELECTRICITY POLE
[Black dot with 'PP']	EXISTING ELECTRICITY POLE WITH LIGHT
[Black dot with 'PP']	ROCK HEADWALL



F 70% DAC TENDER ISSUE		LAM	RET	07.08.20
E DRAFT TENDER ISSUE		CPO	RET	23.07.20
D ISSUED FOR INFORMATION		LAM	RET	16.07.20
C CSDM ISSUE		LAM	RET	12.06.20
H FOR SUBMISSION		LAM	RET	09.11.20
G ISSUED FOR COORDINATION		LAM	RET	26.06.20
REV	DESCRIPTION	DRAWN	APPD	DATE

CITY OF PARRAMATTA

GRIMSHAW A3A

Stantec

CONSULTANT		ARCHITECT/ENGINEER	
DRAWN	CPO	DESIGNED	LAM
VERIFIED	RET	06.08.20	
APPROVED FOR TENDER			
APPROVED FOR CONSTRUCTION			

PROJECT

PARRAMATTA AQUATIC CENTRE

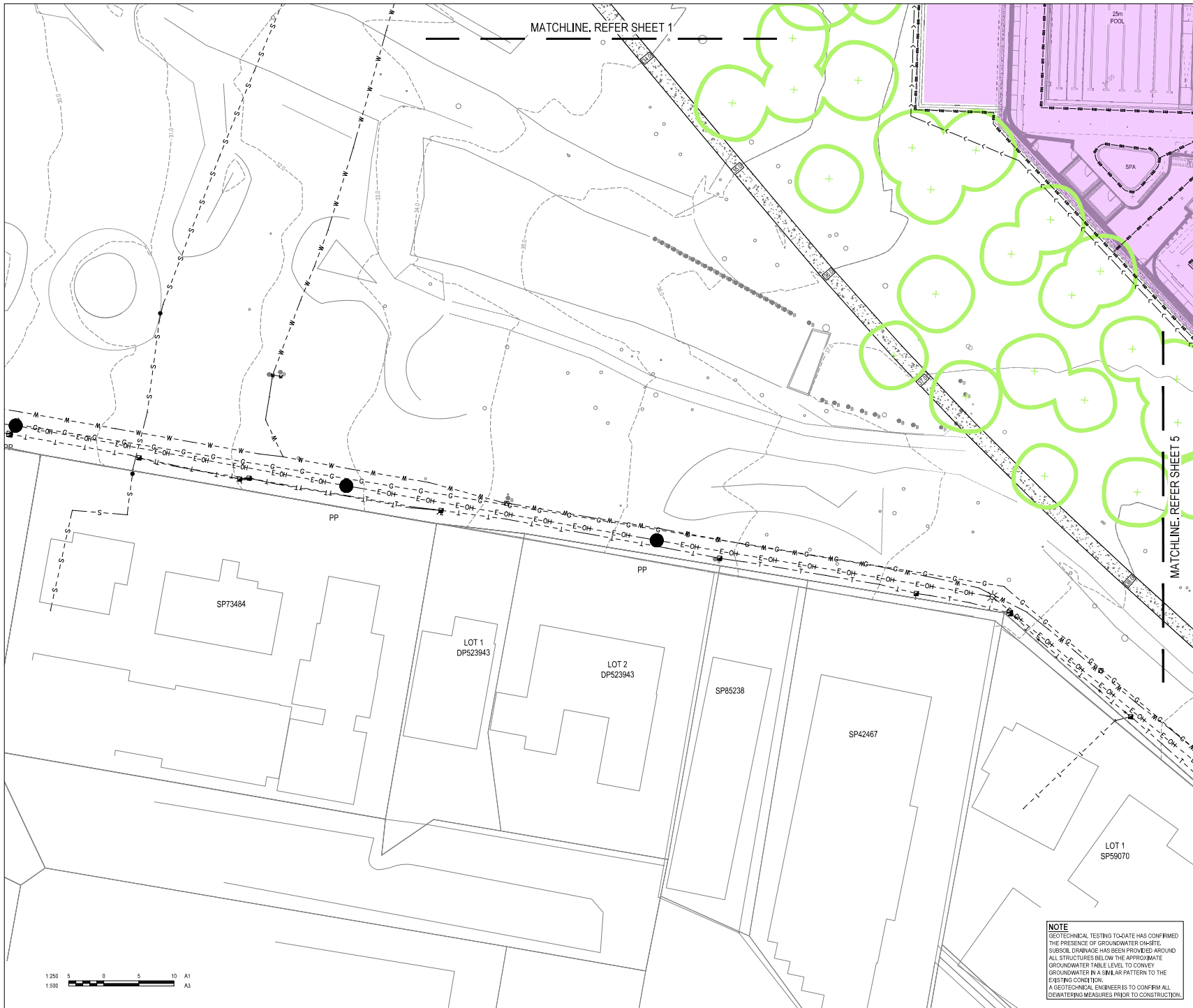
TITLE

STORMWATER DRAINAGE PLAN SHEET 3

FOR SUBMISSION
NOT FOR CONSTRUCTION

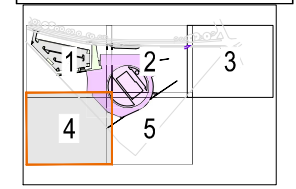
AS SHOWN	38574	CI-520-013	H
SCALE @ A1	PROJECT No	DRAWING No	REV

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LEGEND

- PROPOSED SITE BOUNDARY
- ELECTRICAL EASEMENT
- PROPOSED BUILDING
- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- OSD
- RWT
- RG
- PROPOSED SURFACE CONTOUR
- EXISTING SURFACE CONTOUR
- EXISTING TREE
- PROPOSED TREE
- PROPOSED STORMWATER PIPE
- PROPOSED GRATED DRAIN
- PROPOSED SUBSOIL DRAIN
- PROPOSED SWALE
- EXISTING STORMWATER PIPE
- EXISTING SEWER
- EXISTING GAS
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING ELECTRICITY OVERHEAD
- EXISTING TELECOMMUNICATIONS
- PROPOSED GRATED INLET FIT TO BE FITTED WITH SPEL STORMSACK OR APPROVED EQUIVALENT
- PROPOSED JUNCTION FIT
- EXISTING STORMWATER HERB INLET FIT
- EXISTING ELECTRICITY POLE
- EXISTING ELECTRICITY POLE WITH LIGHT
- ROCK HEADWALL



H	FOR SUBMISSION	LAM	RET	05.11.20
G	ISSUED FOR COORDINATION	LAM	RET	29.02.20
F	TIN DAC TENDER ISSUE	LAM	RET	07.08.20
E	DRAFT TENDER ISSUE	CPO	RET	23.07.20
D	ISSUED FOR INFORMATION	LAM	RET	16.07.20
C	SSDA ISSUE	LAM	RET	12.05.20
B	SSDA ISSUE	LAM	RET	31.03.20
A	ISSUED FOR DRAFT SSDA	LAM	RET	06.03.20

CITY OF PARRAMATTA

GRIMSHAW
A3A

Stantec

CONSULTANT	ARCHITECT/ENGINEER
DRAWN	CPO
DESIGNED	LAM
VERIFIED	RET 05.08.20
APPROVED FOR TENDER	
APPROVED FOR CONSTRUCTION	

PROJECT

PARRAMATTA AQUATIC CENTRE

TITLE

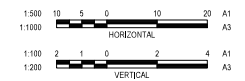
STORMWATER DRAINAGE PLAN SHEET 4



FOR SUBMISSION
NOT FOR CONSTRUCTION

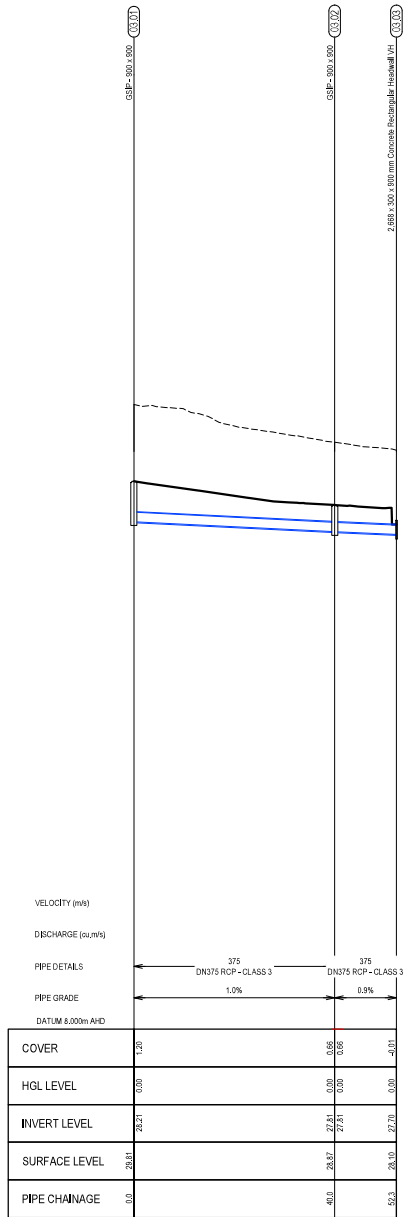
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SCALE @ A1	PROJECT No	DRAWING No	REV

NOTE
GEOTECHNICAL TESTING TO-DATE HAS CONFIRMED THE PRESENCE OF GROUNDWATER ON-SITE. SUBSOIL DRAINAGE HAS BEEN PROVIDED AROUND ALL STRUCTURES BELOW THE APPROXIMATE GROUNDWATER TABLE LEVEL, TO CONVEY GROUNDWATER IN A SIMILAR PATTERN TO THE EXISTING CONDITION.
A GEOTECHNICAL ENGINEER IS TO CONFIRM ALL DEWATERING MEASURES PRIOR TO CONSTRUCTION.

38574-CI-520-014-1.dwg
01/10/2020 5:20:01 PM



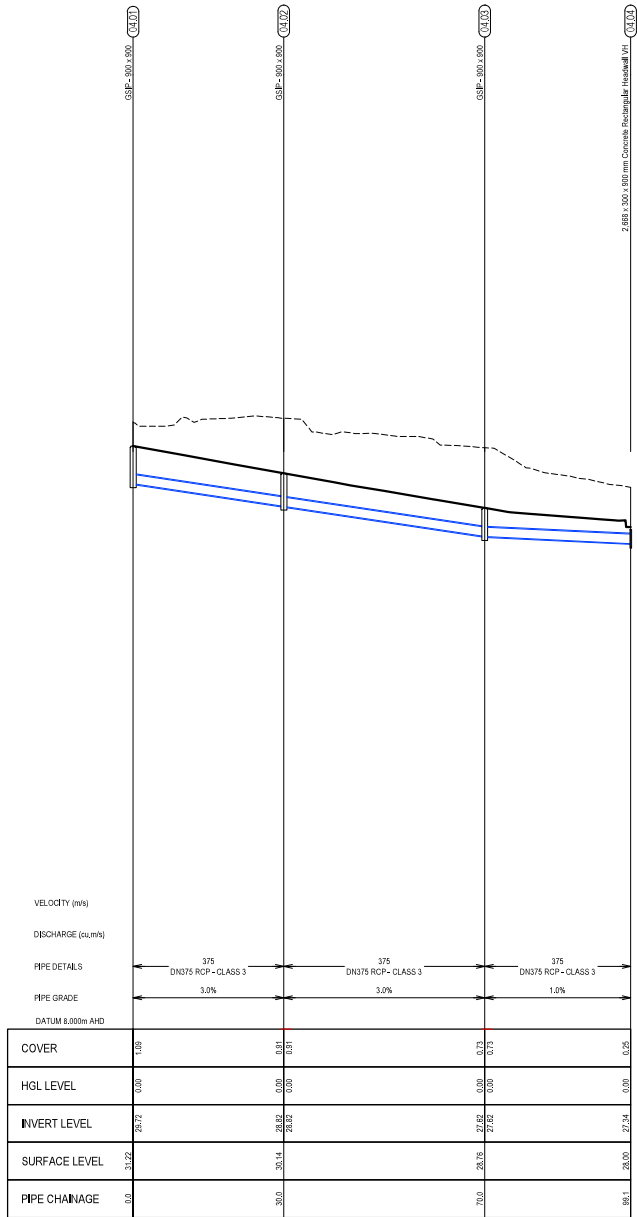
F	FOR SUBMISSION	LAM	RET	09.11.20															
E	ISSUED FOR COORDINATION	LAM	RET	23.08.20															
D	CPO/CNC TENDER ISSUE	LAM	RET	07.06.20															
C	DRAFT TENDER ISSUE	CPO	RET	23.07.20															
B	ISSUED FOR INFORMATION	LAM	RET	16.02.20															
A	ISSUED FOR INFORMATION	LAM	RET	08.01.20															
REV	DESCRIPTION	DRAWN	APPRO	DATE															
 CITY OF PARRAMATTA					GRIMSHAW <i>a3a</i>														
CONSULTANT					ARCHITECT/COLLECT														
 Stantec					<table><tr><td>DRAWN</td><td>CPO</td></tr><tr><td>DESIGNED</td><td>LAM</td></tr><tr><td>VERIFIED</td><td>RET 05.08.20</td></tr><tr><td>APPROVED FOR TENDER</td><td>-</td></tr><tr><td>APPROVED FOR CONSTRUCTION</td><td>-</td></tr></table>					DRAWN	CPO	DESIGNED	LAM	VERIFIED	RET 05.08.20	APPROVED FOR TENDER	-	APPROVED FOR CONSTRUCTION	-
DRAWN	CPO																		
DESIGNED	LAM																		
VERIFIED	RET 05.08.20																		
APPROVED FOR TENDER	-																		
APPROVED FOR CONSTRUCTION	-																		
PROJECT																			
PARRAMATTA AQUATIC CENTRE																			
TITLE																			
STORMWATER LONG SECTIONS SHEET 1																			
FOR SUBMISSION NOT FOR CONSTRUCTION																			
AS SHOWN		38574		CI-522-001		DRAWING No		F											
SCALE @ A1		PROJECT No				DRAWING No		REV											



SW-AL-03 LONG SECTION

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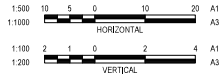
VERTICAL SCALE 1:100




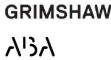

SW-AL-04 LONG SECTION

HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:100



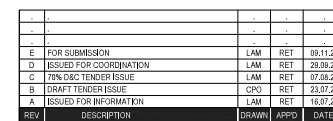
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E	FOR SUBMISSION			08.11.20
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C	70% D&C TENDER ISSUE	LAM	RET	07.08.20
B	DRAFT TENDER ISSUE	CPO	RET	22.07.20
A	ISSUED FOR INFORMATION	LAM	RET	16.07.20

CONSULTANT	ARCHITECT/CLIENT
 CITY OF PARRAMATTA	 GRIMSHAW
 Stantec	DRAWN: CPO DESIGNED: LAM VERIFIED: RET 05.08.20 APPROVED FOR TENDER: APPROVED FOR CONSTRUCTION:

PROJECT	TITLE
PARRAMATTA AQUATIC CENTRE	STORMWATER LONG SECTIONS SHEET 2

FOR SUBMISSION			
NOT FOR CONSTRUCTION			

AS SHOWN	38574	CI-522-002	E
SCALE @ A1	PROJECT No	DRAWING No	REV



PROJECT	PARRAMATTA AQUATIC CENTRE
TITLE	STORMWATER LONG SECTIONS SHEET 3

FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN	38574	CI-522-003	E
SCALE @ A1	PROJECT No	DRAWING No	REV

GSP - 2.4m EXH|INTEL LEFT| 800 x 650 SUMP

03.07.20

GSP - 1.0m EXH|INTEL LEFT| 800 x 650 SUMP

03.07.20

GSP - 2.4m EXH|INTEL LEFT| 800 x 650 SUMP

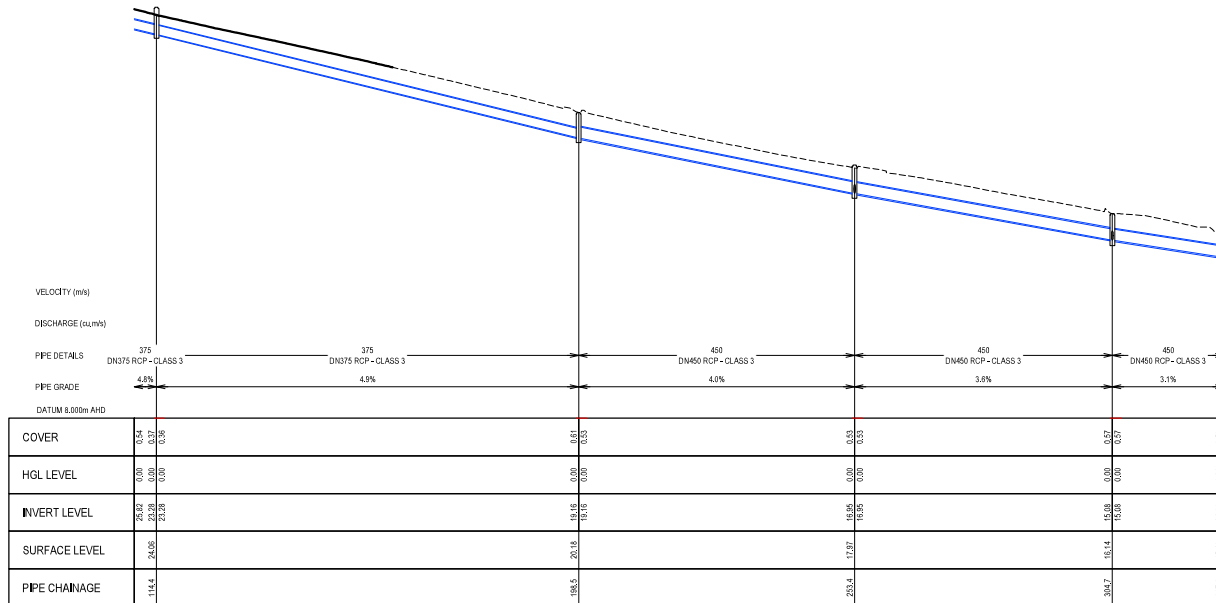
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GSP - 1.0m EXH|INTEL LEFT| 800 x 650 SUMP

03.07.20

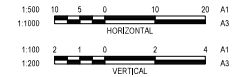
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03.07.20

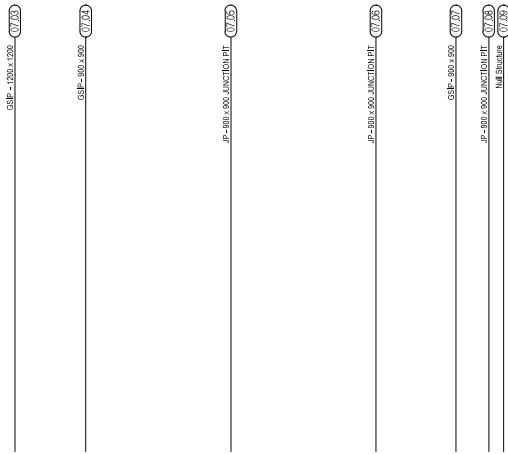


SW-AL-06 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

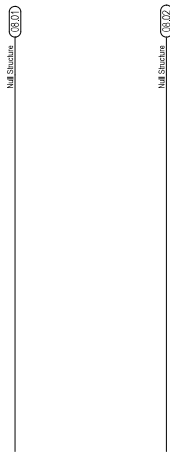


REV	DESCRIPTION	DRAWN	APPRD	DATE
E	FOR SUBMISSION	LAM	RET	09.11.20
D	ISSUED FOR COORDINATION	LAM	RET	29.09.20
C	70% D&G TENDER ISSUE	LAM	RET	07.08.20
B	DRAFT TENDER ISSUE	CPO	RET	22.07.20
A	ISSUED FOR INFORMATION	LAM	RET	16.07.20
CONSULTANT				
CITY OF PARRAMATTA		GRIMSHAW AUSA		
PROJECT		ARCHITECT/CIENT		
PARRAMATTA AQUATIC CENTRE		DRAWN: CPO		
TITLE		DESIGNED: LAM		
STORMWATER LONG SECTIONS SHEET 4		VERIFIED: RET 05.08.20		
FOR SUBMISSION		APPROVED FOR TENDER		
NOT FOR CONSTRUCTION		APPROVED FOR CONSTRUCTION		
AS SHOWN	38574	CI-522-004	E	
SCALE @ A1	PROJECT No	DRAWING No	REV	



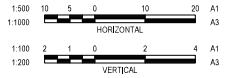
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HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100


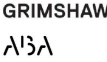



SW-AL-08 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



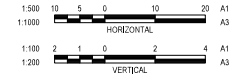
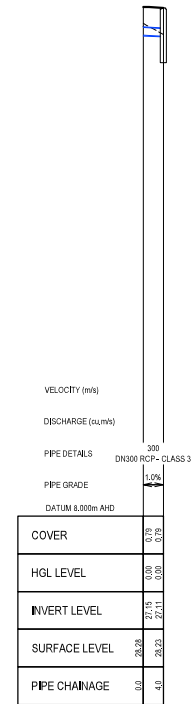
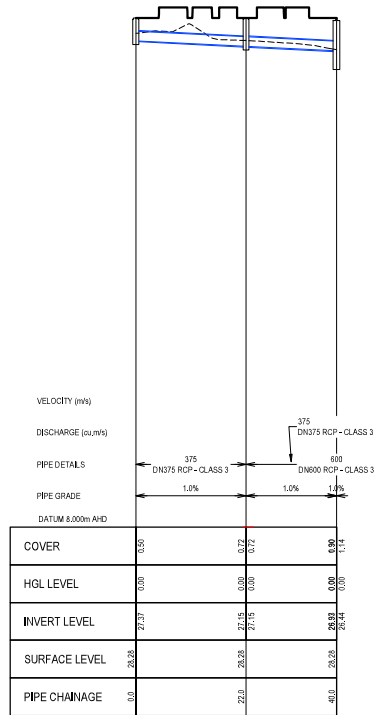
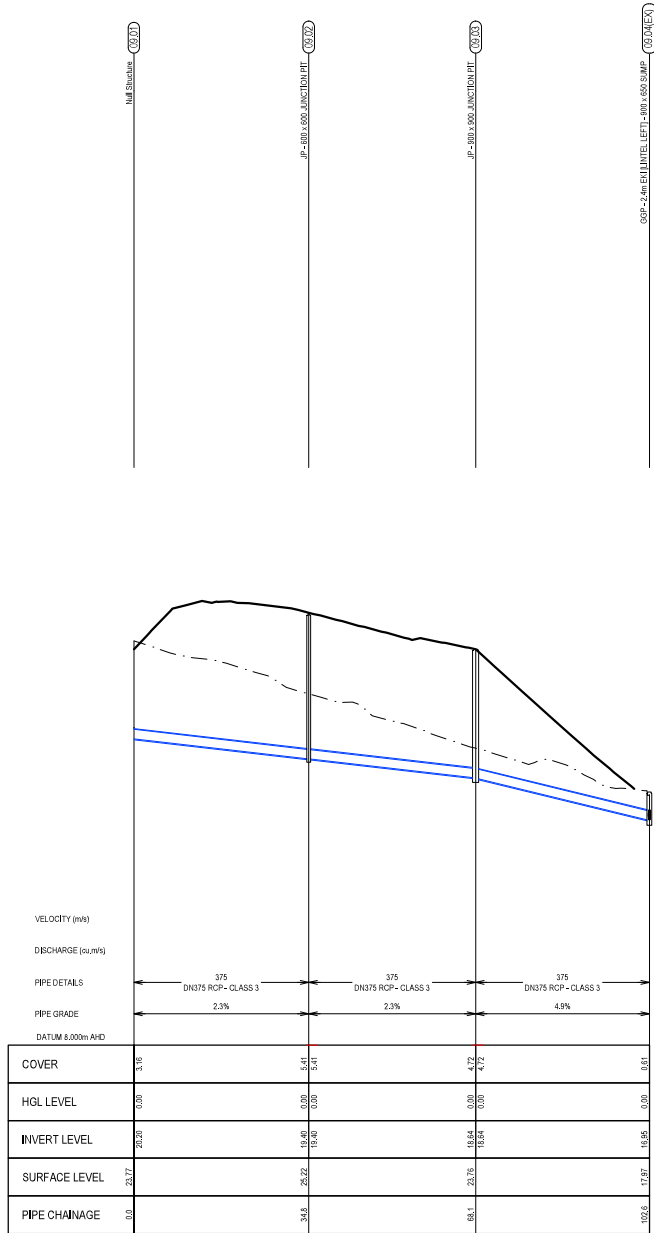
REV	DESCRIPTION	DRAWN	APPD	DATE
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B	DRAFT TENDER ISSUE	CPO	RET	22.07.20
C	75% D&C TENDER ISSUE	LAM	RET	07.08.20
D	ISSUED FOR COORDINATION	LAM	RET	29.09.20
E	FOR SUBMISSION	LAM	RET	09.11.20

CONSULTANT	ARCHITECT/CLIENT										
											
	<table><tr><td>DRAWN</td><td>CPO</td></tr><tr><td>DESIGNED</td><td>LAM</td></tr><tr><td>VERIFIED</td><td>RET 05.08.20</td></tr><tr><td>APPROVED FOR TENDER</td><td>-</td></tr><tr><td>APPROVED FOR CONSTRUCTION</td><td>-</td></tr></table>	DRAWN	CPO	DESIGNED	LAM	VERIFIED	RET 05.08.20	APPROVED FOR TENDER	-	APPROVED FOR CONSTRUCTION	-
DRAWN	CPO										
DESIGNED	LAM										
VERIFIED	RET 05.08.20										
APPROVED FOR TENDER	-										
APPROVED FOR CONSTRUCTION	-										


PROJECT	TITLE
PARRAMATTA AQUATIC CENTRE	STORMWATER LONG SECTIONS SHEET 5


FOR SUBMISSION			
NOT FOR CONSTRUCTION			

AS SHOWN	38574	CI-522-005	E
SCALE @ A1	PROJECT No	DRAWING No	REV

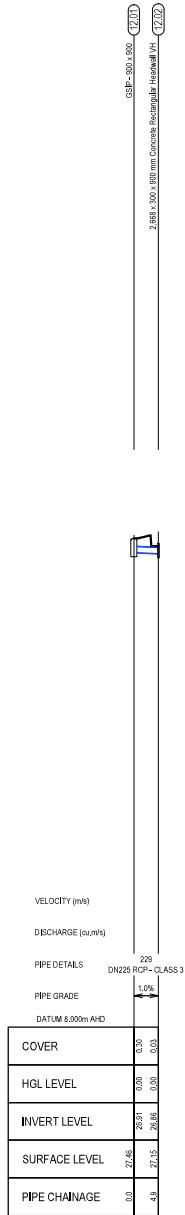


E	FOR SUBMISSION	LAM	RET	09.11.20
D	ISSUED FOR COORDINATION	LAM	RET	29.09.20
C	75% D&C TENDER ISSUE	LAM	RET	07.08.20
B	DRAFT TENDER ISSUE	CPO	RET	22.07.20
A	ISSUED FOR INFORMATION	LAM	RET	16.07.20
REV	DESCRIPTION	DRAWN	APPD	DATE

 CITY OF PARRAMATTA	GRIMSHAW <i>A\B\A</i>
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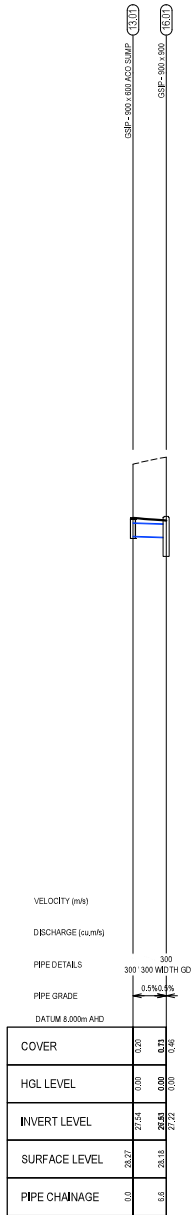
CONSULTANT	ARCHITECT/ENGINEER										
 Stantec	<table><tr><td>DRAWN</td><td>CPO</td></tr><tr><td>DESIGNED</td><td>LAM</td></tr><tr><td>VERIFIED</td><td>RET 01.08.20</td></tr><tr><td>APPROVED FOR TENDER</td><td>-</td></tr><tr><td>APPROVED FOR CONSTRUCTION</td><td>-</td></tr></table>	DRAWN	CPO	DESIGNED	LAM	VERIFIED	RET 01.08.20	APPROVED FOR TENDER	-	APPROVED FOR CONSTRUCTION	-
DRAWN	CPO										
DESIGNED	LAM										
VERIFIED	RET 01.08.20										
APPROVED FOR TENDER	-										
APPROVED FOR CONSTRUCTION	-										

PROJECT	TITLE		
PARRAMATTA AQUATIC CENTRE	STORMWATER LONG SECTIONS SHEET 6		
FOR SUBMISSION NOT FOR CONSTRUCTION			
AS SHOWN	38574	CI-522-006	E
SCALE @ A1	PROJECT No	DRAWING No	REV



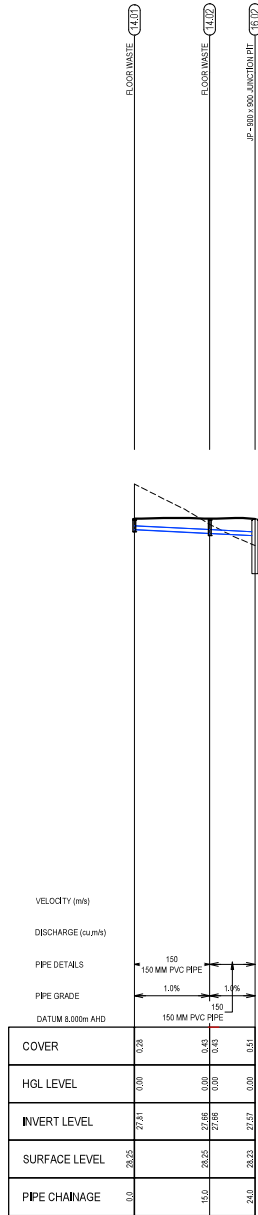
SW-AL-12 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



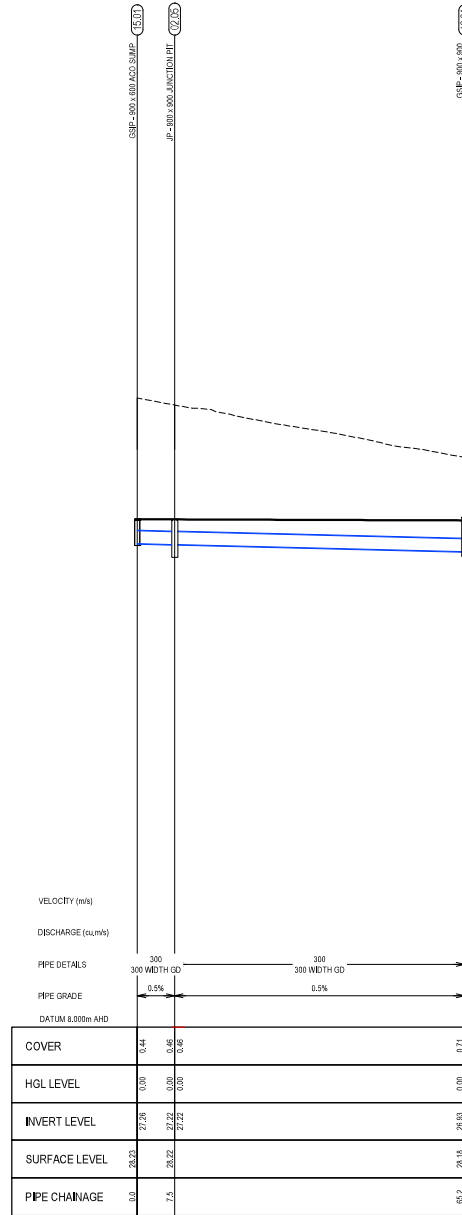
SW-AL-13 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



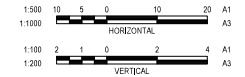
SW-AL-14 LONG SECTION



HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

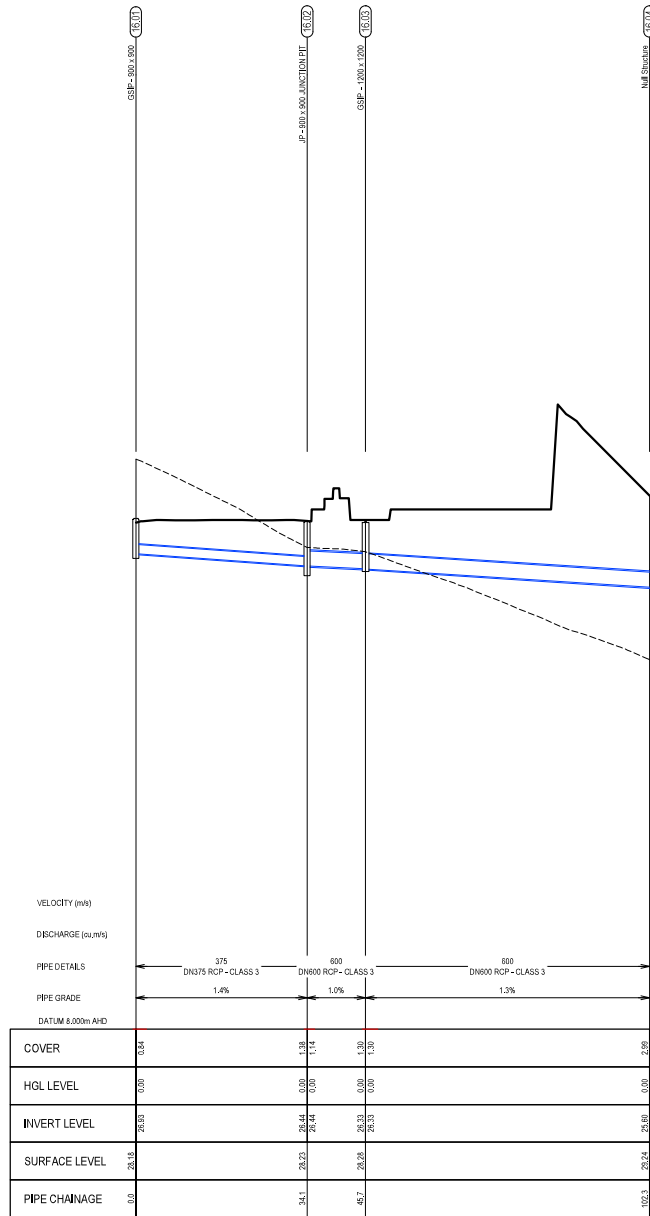


SW-AL-15 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

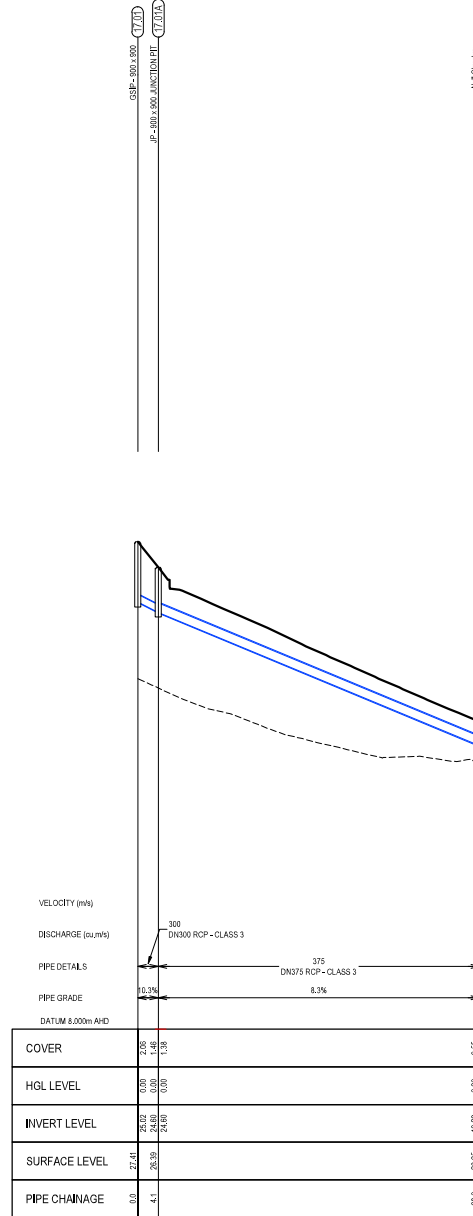


B	FOR SUBMISSION	LAM	RET	08.11.20	
A	ISSUED FOR COORDINATION	LAM	IAN	26.08.20	
REV	DESCRIPTION	DRAWN	APPD	DATE	
 CITY OF PARRAMATTA		GRIMSHAW <i>A S A</i>			
CONSULTANT		ARCHITECT/ENGINEER			
		DRAWN	LAM		
		DESIGNED	LAM		
		VERIFIED	-		
		APPROVED FOR TENDER	-		
PROJECT		APPROVED FOR CONSTRUCTION			
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PARRAMATTA AQUATIC CENTRE					
TITLE					
STORMWATER LONG SECTIONS SHEET 7					
FOR SUBMISSION					
NOT FOR CONSTRUCTION					
AS SHOWN	38574	CI-522-007	B		
SCALE @ A1	PROJECT No	DRAWING No	REV		



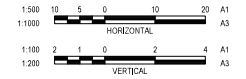
SW-AL-16 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



SW-AL-17 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



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GSP-300 X 900 ACO SUMP (17.07)

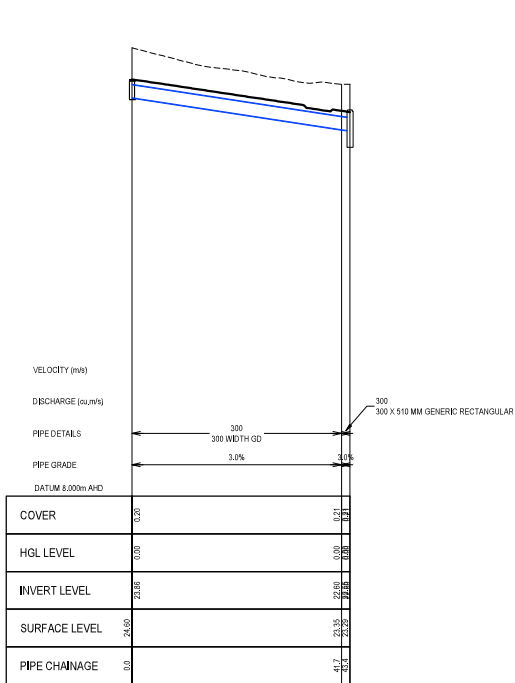
NA Sump
P-200 X 900 ACO SUMP (17.07)

GSP-300 X 900 (20.07)

GSP-1.0m EXI (INTEL LEFT) 800 X 600 SUMP (17.07/EX)

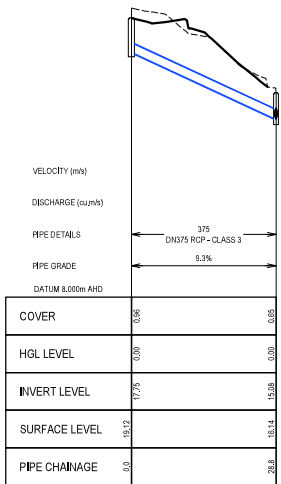
GSP-300 X 900 (21.07)

P-200 X 900 ACO SUMP (17.07A)



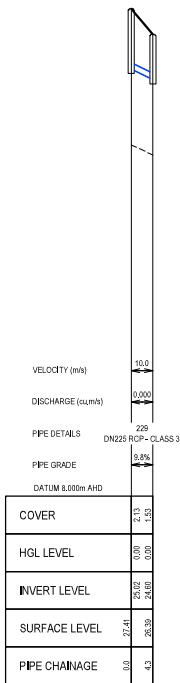
SW-AL-19 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



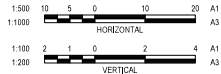
SW-AL-20 LONG SECTION

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

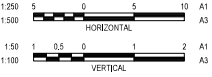
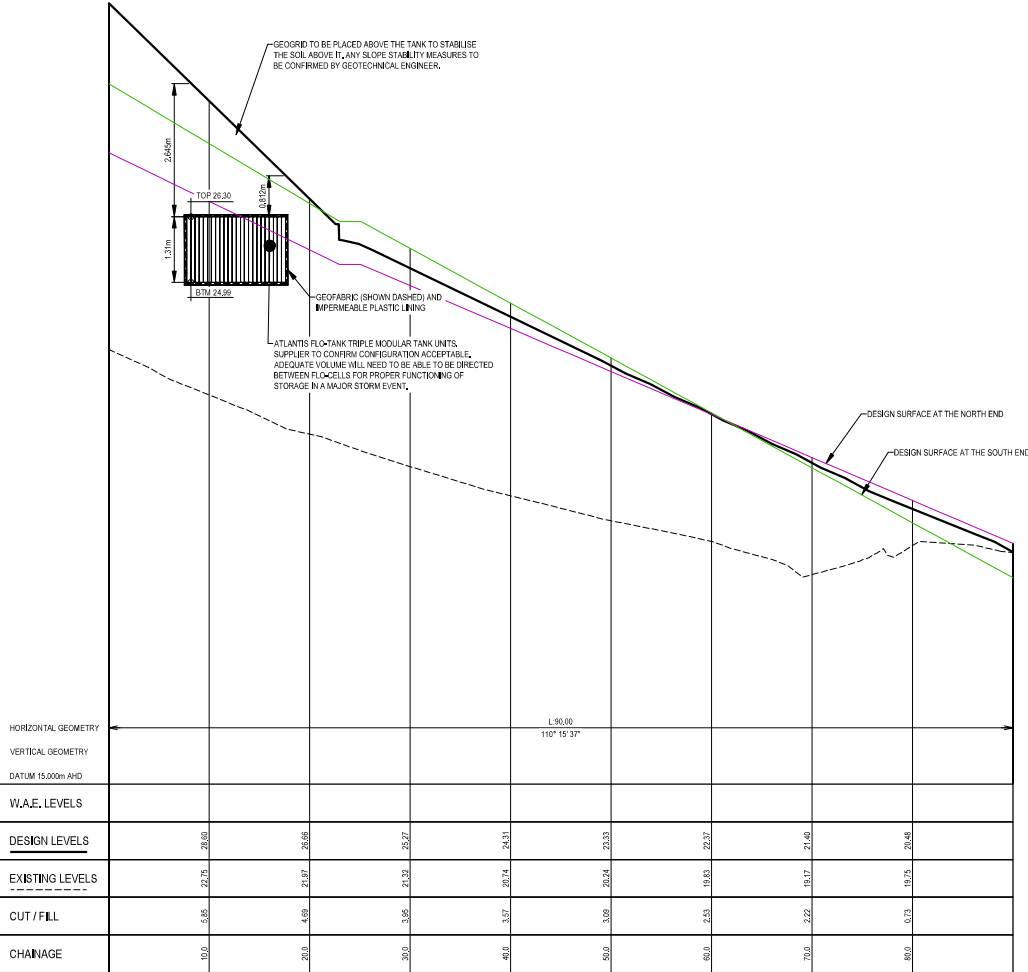


SW-AL-21 LONG SECTION

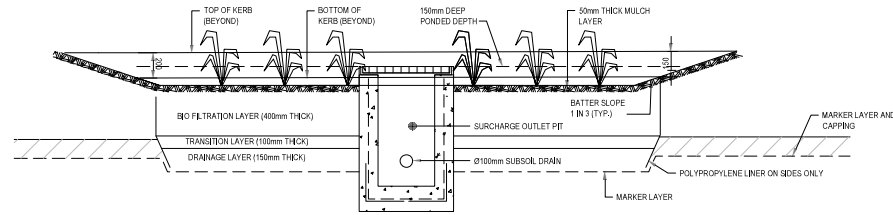
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



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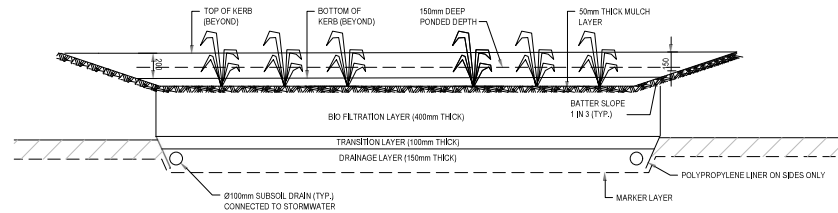


CONSULTANT		ARCHITECT/CLEMENT	
CITY OF PARRAMATTA		GRIMSHAW	
Stantec		A3A	
PROJECT		PARRAMATTA AQUATIC CENTRE	
TITLE		STORMWATER CROSS SECTION	
FOR SUBMISSION		NOT FOR CONSTRUCTION	
AS SHOWN	38574	CI-523-001	B
SCALE @ A1	PROJECT No	DRAWING No	REV



RAINGARDEN TYPICAL SECTION
THROUGH SURCHARGE PIT

SCALE 1:20



RAINGARDEN TYPICAL SECTION

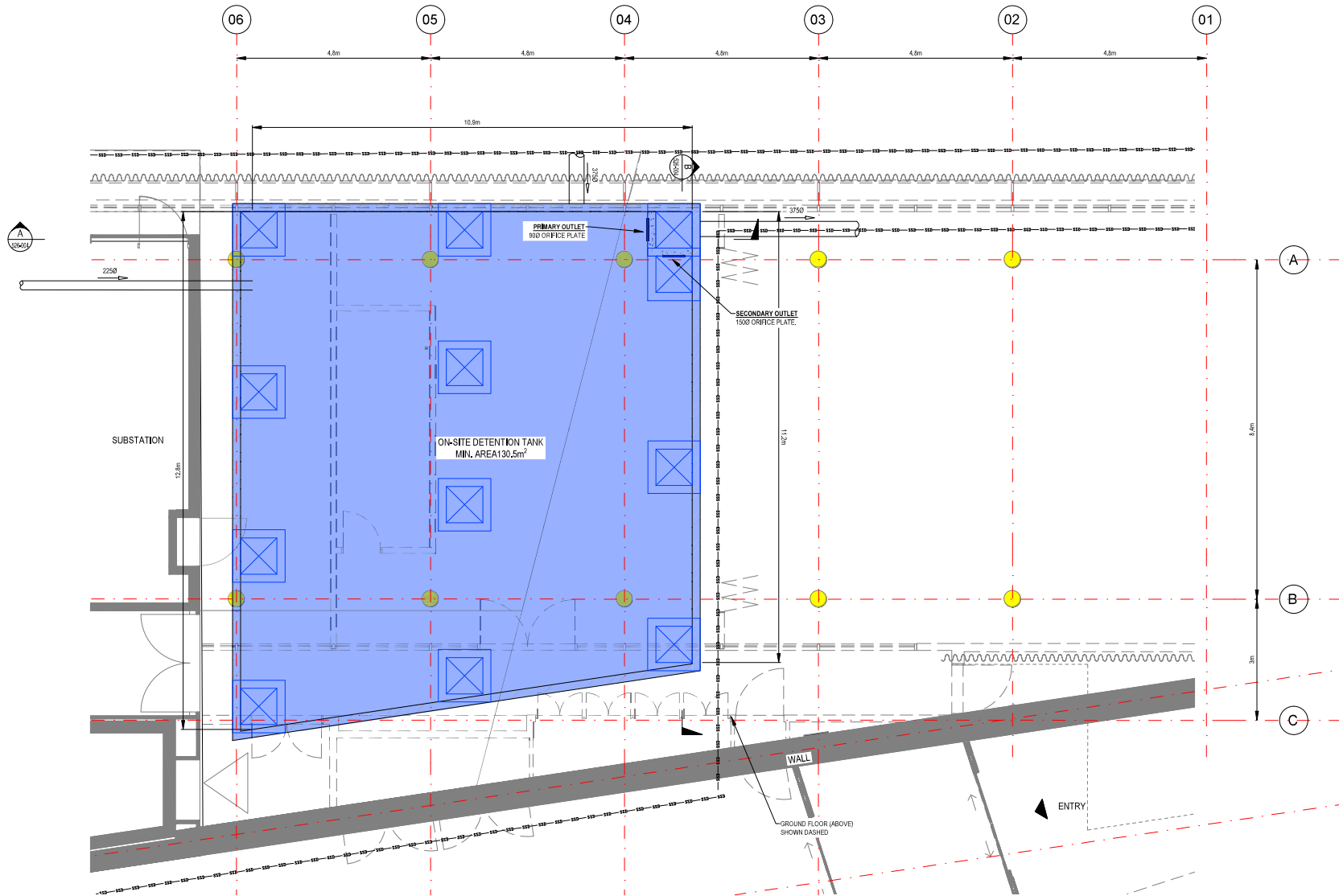
SCALE 1:20

RAIN GARDEN MATERIAL SPECIFICATION

Layer	Description	Specification	
		Partical size	% Retained
Drainage Layer	The drainage layer shall comprise a no fines drainage gravel	> 7mm	0
		4 - 7mm	> 70%
		2 - 4mm	< 20%
		< 2mm	0
		90% PARTICLES RETAINED ABOVE 0.25mm, AND SATURATED HYDRAULIC CONDUCTIVITY > 250mm/hr	
Transition Layer	The transition layer shall comprise coarse washed river sand or recycled crushed glass equivalent	SATURATED HYDRAULIC CONDUCTIVITY BETWEEN 100mm/hr AND 250mm/hr	
Bio-Filtration Layer	The bio-filtration layer shall comprise a sandy loam mix in accordance with the FAWB guidelines	Description	Proportion
		Class and Silt	< 3%
		Very Fine Sand	5 - 30%
		Fine Sand	10 - 30%
		Medium to Coarse Sand	40 - 60%
		Coarse Sand	7 - 10%
		Fine Gravel	< 3%
		Grading	< 0.05mm
			0.05 - 0.15mm
			0.15 - 0.25mm
Gravel Mulch	The gravel mulch shall be a washed aggregate	Total Clay and Silt Content ≤ 3%	
		Organic Content Shall be ≤ 3%	
		pH (1.5) in water 5.5 - 7.5	
		Electrical Conductivity (EC) < 1.2dSm	
		Total Nitrogen < 100mg/kg and Orthophosphate (PO 4.3) < 80mg/kg Between 10 and 20mm in diameter	

NOTE : RAINGARDEN WITHIN POOL CONCOURSE TO BE LINED





OSD PLAN
1:50

1:50
1:100

REV	DESCRIPTION	DRAWN	APPD	DATE
D	FOR SUBMISSION	LAM	RET	09.11.20
C	TANK DIMENSIONS AMENDED	LAM	RET	23.06.20
B	70% D&C TENDER ISSUE	LAM	RET	07.08.20
A	DRAFT TENDER ISSUE	CPO	RET	23.07.20



GRIMSHAW
A3A

CONSULTANT	ARCHITECT/CLIENT
Stantec	CPO
DESIGNED:	LAM
VERIFIED:	RET (06.08.20)
APPROVED FOR TENDER:	-
APPROVED FOR CONSTRUCTION:	-

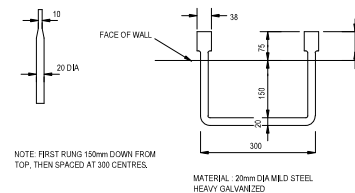
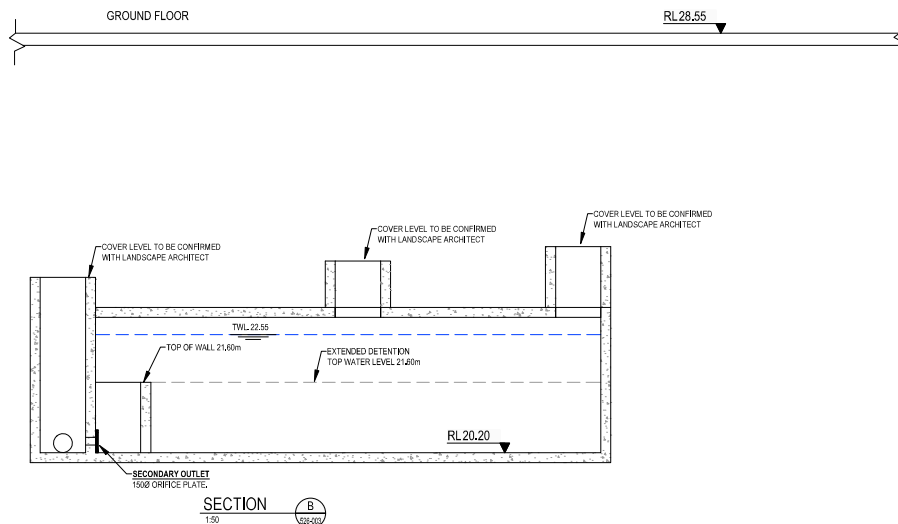
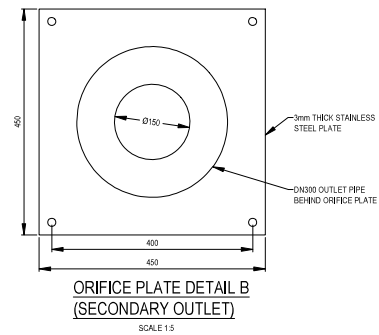
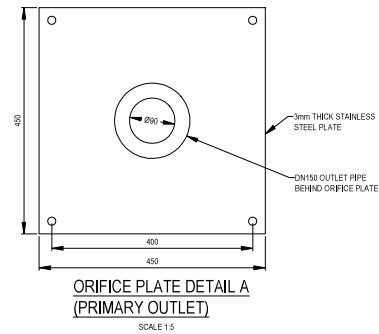
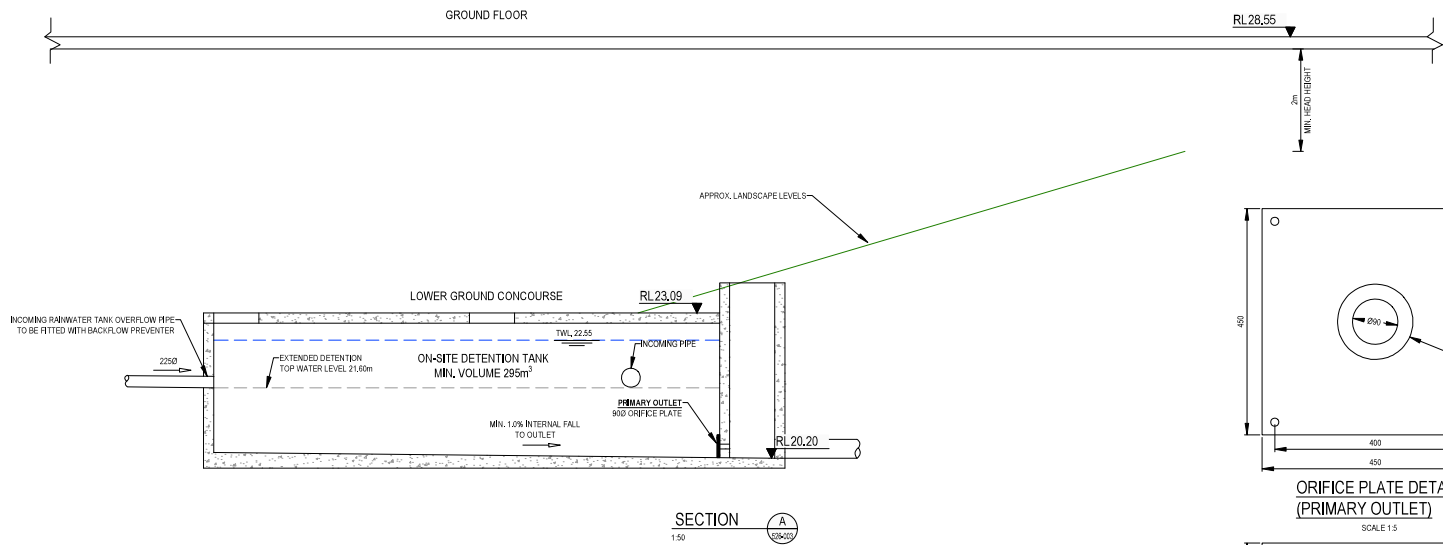
PROJECT
PARRAMATTA AQUATIC CENTRE

TITLE
STORMWATER DRAINAGE DETAILS - SHEET 3

FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN
SCALE @ A1
PROJECT No
DRAWING No
REV

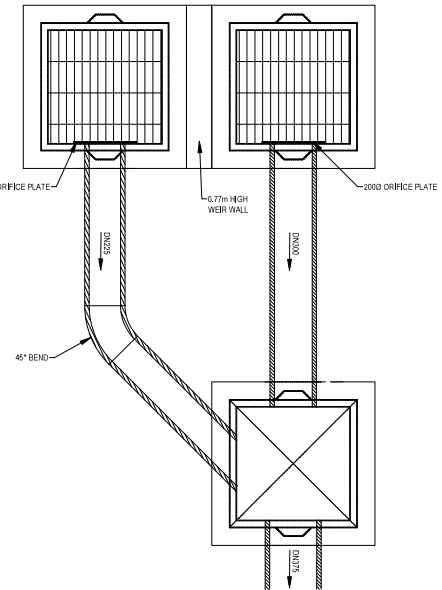
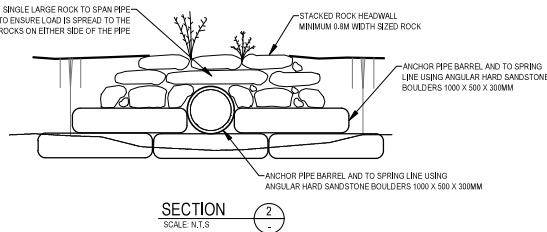
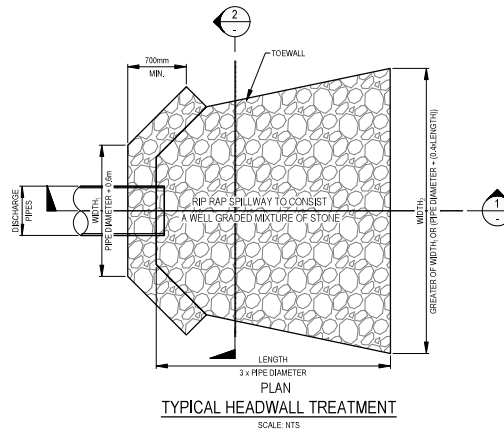
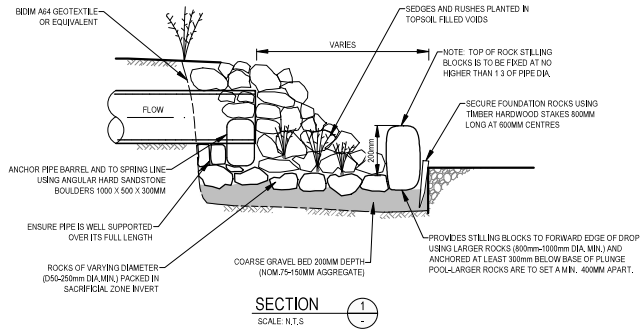
38574
CI-526-003
D



STEP IRONS FOR DRAINAGE PITS

N.T.S.

REV	DESCRIPTION	DRAWN	APPD	DATE
E	FOR SUBMISSION	LAM	RET	09.11.20
D	TANK DIMENSIONS AMENDED	LAM	RET	23.09.20
C	70% DAC TENDER ISSUE	LAM	RET	20.08.20
B	70% DAC TENDER ISSUE	LAM	RET	07.08.20
A	DRAFT TENDER ISSUE	CPO	RET	23.07.20
REV	DESCRIPTION	DRAWN	APPD	DATE
<div> <div> CITY OF PARRAMATTA </div> <div> GRIMSHAW </div> </div> <div> STANTEC </div> <div> CONSULTANT </div> <div> ARCHITECT/CLIENT </div> <div> PROJECT </div> <div> PARRAMATTA AQUATIC CENTRE </div> <div> TITLE </div> <div> STORMWATER DRAINAGE DETAILS - SHEET 4 </div> <div> FOR SUBMISSION </div> <div> NOT FOR CONSTRUCTION </div> <div> AS SHOWN </div> <div> 38574 </div> <div> CI-526-004 </div> <div> E </div> <div> SCALE @ A1 </div> <div> PROJECT No </div> <div> DRAWING No </div> <div> REV </div>				



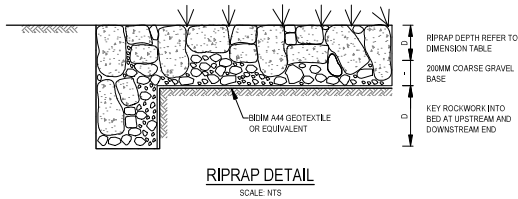
ROCK RIPRAP SPECIFICATION NOTES

- ALL RIPRAP MUST CONSIST OF ANGULAR RUN-OF-QUARRY DURABLE ROCK PLACED OVER A 200mm LAYER OF ANGULAR COBBLES D50 = 100mm MIXED WITH GRAVEL D50 = 10mm.
- ALL ROCK IS TO BE A HARD DURABLE ROCK WITH A POINT INDEX LOAD IS50 GREATER THAN 1.0MPa AS DETERMINED IN ACCORDANCE WITH AS4133.4.1-2007
- RIPRAP IS TO BE PLACED BY HAND AND CROW-BARRED INTO PLACE TO ENSURE FIT WITH MINIMUM VOIDS.
- ALL ROCK AND COBBLES TO BE PACKED WITH TOPSOIL. GAPS IN RIPRAP TO BE PLANTED AS SPECIFIED IN LANDSCAPING PLANS
M10 - 50kg (NOM 300MM)
M15 - 25kg
100 - 120kg

DIMENSION TABLE				
PIPE DIA	LENGTH(m)	WIDTH(m)	THICKNESS (m)	d50 (MM)
375	5.1	1.3	0.40	0.2m
450	5.9	1.4	0.45	0.25m
525	6.4	1.6	0.50	0.2m
590	8.1	2.3	0.55	0.3m

NOTES: STACKED ROCK HEADWALLS

- BACKFILL IS TO BE GRANULAR, FREE DRAINING AND COMPACTED TO 95% MAXIMUM DRY DENSITY.
- FOUNDATION TO BE APPROVED FOR 200 KPA BEARING CAPACITY.
- ROCK IS TO BE SOUND DURABLE BASALT OR OTHER MATERIAL APPROVED BY COUNCIL ENGINEER.
- ROCKS SHALL BE PLACED IN SUCH A MANNER THAT THEY ARE STABLE AND INTERLOCKING AND LAID ROUGHLY COURSED AND BEDDED ON THEIR BROADEST BASE.
- EACH ROCK SHALL BE:
 - ELONGATED TO ALLOW STACKING ON THE LONGEST AXIS.
 - ANGULAR IN SHAPE (PROMOTES INTERLOCKING)
 - FREE FROM OVERBURDEN, SPILL, SHALE AND ORGANIC MATERIAL.
- WALL CONSTRUCTION TO BE SUPERVISED BY A SUITABLY QUALIFIED PERSON.
- ALL VOIDS SHALL NOT EXCEED 30% VOLUME.
- THE TOP COURSE OF ROCKS ON EMBANKMENT AND ADJACENT TO PIPE SHALL BE MORTARED INTO POSITION.
- HEADWALL ROCK SPECIFICATION:
 - BREADTH (B): 0.4 TO 0.8m
 - WIDTH (W): 0.4 TO 0.8m
 - LENGTH (L): 2X (B OR W) < L < 3 X (B OR W)



REV	DESCRIPTION	DRAWN	APPD	DATE
B	FOR SUBMISSION	LAM	RET	08.11.20
A	70% D&C TENDER ISSUE	LAM	RET	07.08.20



GRIMSHAW
A3A

CONSULTANT		ARCHITECT/CLEMENT	
DESIGNED	LAM	VERIFIED	RET 05.08.20
APPROVED FOR TENDER	-	APPROVED FOR CONSTRUCTION	-

PROJECT
PARRAMATTA AQUATIC CENTRE

TITLE
STORMWATER DRAINAGE DETAILS - SHEET 5

FOR SUBMISSION
NOT FOR CONSTRUCTION

AS SHOWN	38574	CI-526-005	B
SCALE @ A1	PROJECT No	DRAWING No	REV

