


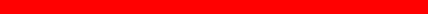


PUBLIC DOMAIN CIVIL ENGINEERING PACKAGE



SOURCE : NEARMAP.COM.AU (©2023)

DRAWING SCHEDULE	
DWG No.	DRAWING TITLE
C101.01	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
C101.11	SPECIFICATION NOTES – SHEET 01
C101.12	SPECIFICATION NOTES – SHEET 02
C104.01	SITEWORKS AND STORMWATER MANAGEMENT PLAN – SHEET 01
C104.02	SITEWORKS AND STORMWATER MANAGEMENT PLAN – SHEET 02
C104.03	SITEWORKS AND STORMWATER MANAGEMENT PLAN – SHEET 03
C104.04	SITEWORKS AND STORMWATER MANAGEMENT PLAN – SHEET 04
C104.05	SITEWORKS AND STORMWATER MANAGEMENT PLAN – SHEET 05
C105.01	STORMWATER LONGITUDINAL SECTIONS – SHEET 01
C105.02	STORMWATER LONGITUDINAL SECTIONS – SHEET 02
C106.15	TYPICAL SECTION – SHEET 01
C106.21	ROAD LONGITUDINAL SECTIONS – SHEET 01

DRAWN: B.MAZZA

REVISION		DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT		DRAWING TITLE	JOB NUMBER			
01		ISSUED FOR 50% DESIGN DEVELOPMENT	BM		AR	26.05.23			 Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100	PROJECT NAME GEORGE JULIUS AVENUE PUBLIC DOMAIN	CIVIL ENGINEERING PACKAGE	223309			
02		ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	20.06.23						DRAWING NUMBER	REVISION		
												C101.01	02		
							DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VEHICLE AUTHOR SIGNATURE HAS BEEN ADDED.	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD	SCALE 1:1000 @ A1		COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN			DRAWING SHEET SIZE = A1	

ALL CIVIL ENGINEERING CONSTRUCTION WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF SYDNEY, SYDNEY STREETS TECHNICAL SPECIFICATION. THE AFOREMENTIONED GUIDELINES INCLUSIVE OF ALL SPECIFICATIONS TAKE PRECEDENCE OVER NOTES PROVIDED BELOW.

ACCESS AND SAFETY

1. THE CONTRACTOR SHALL COMPLY WITH ALL STATUTORY AND INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
2. THE CONTRACTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON AND APPROVED BY COUNCIL / REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.
3. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS ADJACENT THE WORKS IS NOT INTERRUPTED.
4. WHERE NECESSARY THE CONTRACTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
5. THE CONTRACTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCIL'S / AUTHORITY / SITE MANAGERS REQUIREMENTS.

TREE PROTECTION

1. REFER TO LANDSCAPE / ARCHITECTS/NORTHROP'S PLAN & SPECIFICATION FOR TREES TO BE RETAINED AND PROTECTED.
2. ANY EXISTING/PROPOSED TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
 - 2.1. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE.
 - 2.2. ENSURING THAT NOTHING IS NAILED TO ANY PART OF THE TREE.
 - 2.3. CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY. COUNCILS AND/OR INDEPENDENT ARBORISTS TO BE CONSULTED WHERE TREE ROOTS ARE TO BE REMOVED AND/OR CUT.

SEDIMENT AND SOIL EROSION

1. THE SEDIMENT & EROSION CONTROL PLAN PRESENTS CONCEPTS ONLY. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT & MANAGEMENT OF A DETAILED SCHEME MEETING COUNCILS AND OTHER REGULATORY AUTHORITY REQUIREMENTS AND MAKE PAYMENT OF ALL FEES.
2. THE CONTRACTOR SHALL INVESTIGATE ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH STATUTORY REQUIREMENTS AND IN PARTICULAR THE 'BLUE BOOK' (MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION), PRODUCED BY LANDCOM AND COUNCILS POLICIES. THESE MEASURES ARE TO BE INSPECTED AND MAINTAINED ON A DAILY BASIS.
3. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THE DRAWINGS AND ADHERE TO ALL REGULATORY AUTHORITY REQUIREMENTS.
4. THE CONTRACTOR SHALL INFORM ALL SUB CONTRACTORS OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSTREAM LANDS AND WATERWAYS.
5. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - 5.1. CONSTRUCT TEMPORARY STABILISED SITE ACCESS INCLUDING OF SHAKES DOWNS AND BATTERS.
 - 5.2. INSTALL ALL TEMPORARY SEDIMENT FENCES AND BARRIER FENCES, WHERE FENCES ADJACENT EACH OTHER, THE SEDIMENT FENCE CAN BE INCORPORATED INTO THE BARRIER FENCE.
 - 5.3. INSTALL SEDIMENT CONTROL MEASURES AS OUTLINED ON THE APPROVED PLANS.
6. UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF MINIMUM WORKABLE SIZE.
7. AT ALL TIMES AND IN PARTICULAR DURING WINDY AND DRY WEATHER, LARGE UNPROTECTED AREAS WILL BE STABILISED / KEPT MOIST (NOT WET) TO KEEP DUST UNDER CONTROL ENSURING CONFORMITY TO REGULATORY AUTHORITY REQUIREMENTS.
8. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) SHALL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
9. WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN STABILISED AND/OR ANY LIKELY SEDIMENT BEING FILTERED OUT.
10. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED / REHABILITATED.
11. ALLOW FOR GRASS STABILISATION OF EXPOSED AREAS, OPEN CHANNELS AND ROCK BATTERS DURING ALL PHASES OF CONSTRUCTION.
12. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN REGULARLY AND AS REQUIRED, PARTICULARLY FOLLOWING RAIN EVENTS.
13. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHT-WEIGHT WASTE MATERIALS AND LITTER SHALL BE DISPOSED OF IN ACCORDANCE WITH REGULATORY AUTHORITY REQUIREMENTS. CONTRACTOR TO PAY ALL FEES AND PROVIDE EVIDENCE OF SAFE DISPOSAL.
14. IF A TEMPORARY SEDIMENT BASIN IS REQUIRED, ENSURE SAFE BATTER SLOPES IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. MAINTAIN ADEQUATE STORAGE VOLUME IN ACCORDANCE WITH PLANS. TEMPORARY PUMP 'CLEAN FLOCCULATED' WATER TO AUTHORITIES STORMWATER SYSTEM. ENSURE HOW DISTURBED SITE RUN-OFF IS DIRECTED TO TEMPORARY SEDIMENT BASIN.

EXISTING SERVICES

1. ALL UTILITY SERVICES INDICATED ON THE DRAWINGS ORIGINATE FROM SUPPLIED DATA OR DIAL BEFORE YOU DIG SEARCHES, THEREFORE THEIR ACCURACY AND COMPLETENESS IS NOT GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND CONFIRM THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY. NOTE SERVICE AUTHORITY REQUIREMENTS FOR LOCATING OF SERVICES PRIOR TO COMMENCEMENT OF WORKS.
2. CARE TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATION, GAS OR ELECTRICAL SERVICES. HAND EXCAVATION ONLY IN THESE AREAS.
3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING SERVICES THAT ARE TO BE RETAINED IN THE VICINITY OF THE PROPOSED WORKS. ANY AND ALL DAMAGE TO THESE SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR UNDER THE DIRECTION OF THE SUPERINTENDENT AT THE CONTRACTORS EXPENSE.
4. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE ADJUSTMENT (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS.
5. THE CONTRACTOR SHALL ALLOW IN THE PROGRAM FOR THE CAPPING OFF, EXCAVATION AND REMOVAL (IF REQUIRED) OF EXISTING SERVICES IN AREAS AFFECTED BY WORKS UNLESS DIRECTED OTHERWISE ON THE DRAWINGS OR BY THE SUPERINTENDENT.
6. THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS ARE NOT AFFECTED BY THE WORKS AND ARE MAINTAINED AND NOT INTERRUPTED.
7. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN APPROVAL OF THE PROGRAM FOR THE RELOCATION AND/OR CONSTRUCTION OF TEMPORARY SERVICES AND FOR ANY ASSOCIATED INTERRUPTION OF SUPPLY.
8. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE, AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
9. THE CONTRACTOR IS TO ALLOW TO POTHOLE ANY SERVICES WITHIN A PUBLIC RESERVE CROSSING WITHIN THE EXTENT OF WORKS (E.G. STORMWATER COLLECTORS).

STANDARD DETAILS

ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO NORTHPROP
ENGINEERS FOR CLARIFICATION

COUNCIL DETAILS - CITY OF SYDNEY		
COMPONENT	DWG REFERENCE	DRAWING TITLE
FOOTPATH - CONCRETE UNIT PAVING	2.3.1, 2.3.4, 2.3.5, 2.3.8, 2.3.11	VARIES
ROAD - ASPHALT PAVEMENT	3.1.1	TYPICAL PAVEMENT DETAILS
PARKING - CONCRETE UNIT PAVING	3.1.10	CONCRETE UNIT PAVEMENT
KERBS	1.1.2	CAST IN-SITU KERB AND GUTTER DETAILS
VEHICLE CROSSING	2.3.9	CONCRETE UNIT PAVING VEHICULAR CROSSING
KERB RAMPS	2.3.6	CONCRETE UNIT PAVING PEDESTRIAN RAMP

DETAILS ARE PROVIDED ON THE BASIS THAT TYPICAL CITY OF SYDNEY 'SYDNEY STREETS STANDARD DRAWINGS' ARE TO BE USED. THE DEVELOPMENT MAY EXPLORE ALTERNATIVE DETAILS TO REDUCE EMBODIED CARBON. THESE WILL BE PROVIDED TO CITY OF SYDNEY FOR APPROVAL.

EARTHWORKS (cont)

2. WHERE THERE IS INSUFFICIENT EXCAVATED MATERIAL SUITABLE FOR FILLING OR SUBGRADE REPLACEMENT, THE CONTRACTOR IS TO ALLOW TO IMPORT FILL. IMPORTED FILL SHALL COMPLY WITH THE FOLLOWING:
 - 12.1 BE OF VIRGIN EXCAVATED NATURAL MATERIAL OR
 - 12.2 BE OF NATURAL MATERIAL WHICH IS SUITABLE FOR USE
 - 12.3 PLASTICITY INDEX BETWEEN 2-15% AND CBR 8
 - 12.4 FREE FROM ORGANIC AND PERISHABLE MATTER
 - 12.5 MAXIMUM SIZE 50mm, PASSING 75 MICRON SIEVE (<25%)
13. THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLERS, MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED AT THEIR COST.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE AND MAINTAIN THE INTEGRITY OF ALL SERVICES, CONDUITS AND PIPES DURING CONSTRUCTION, SPECIFICALLY DURING THE BACKFILLING AND COMPACTION PROCEDURE. ANY AND ALL DAMAGE TO NEW OR EXISTING SERVICES AS A RESULT OF THESE WORKS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.
15. THE CONTRACTOR IS TO PROVIDE SAFETY BARRIERS, FENCING AND THE LIKE IN ACCORDANCE WITH OHS&S REGULATORY AUTHORITY REQUIREMENTS AND TO ENSURE THE WORK SITE IS SAFE AT ALL TIMES.

GENERAL NOTES

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER 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.

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNLESS NOTED OTHERWISE).

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.

ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS
SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORK




SURVEY DATA WAS SUPPLIED BY CARDNO, DRAWING DATED 29.01.2016.

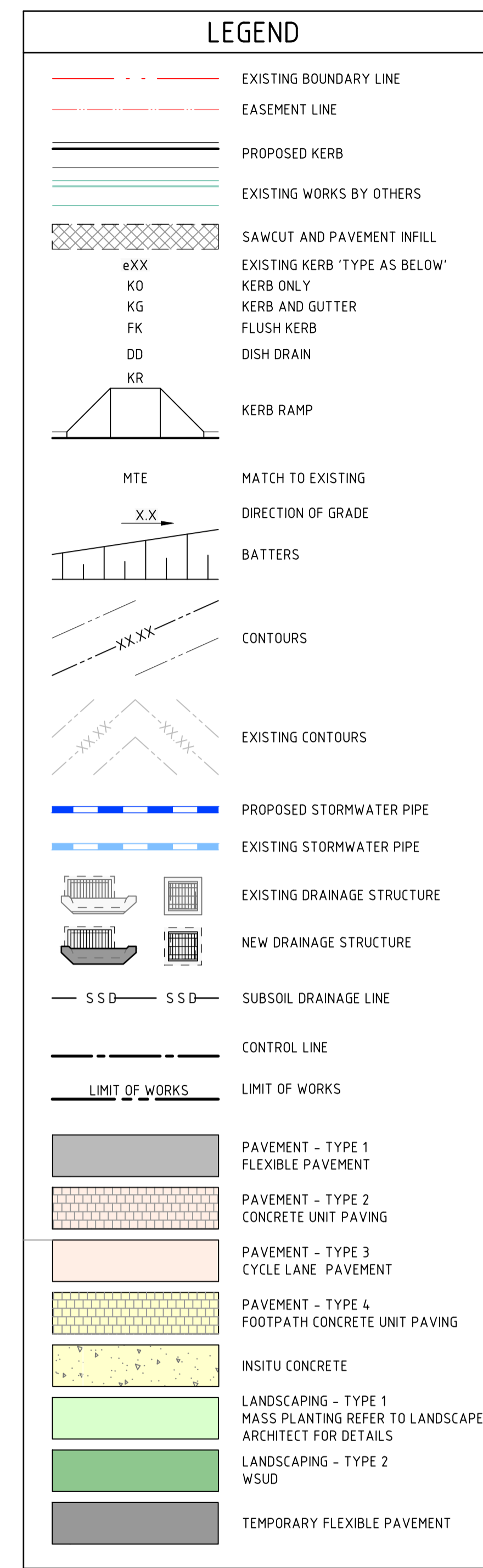
1. THIS DESIGN HAS BEEN PREPARED WITHOUT ACCESS TO DETAILED SURVEY OF ROAD CORRIDOR
2. FINAL DESIGN ALIGNMENT AND LEVELS SUBJECT TO CHANGE UPON RECEIPT OF SURVEY

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA 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.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.






ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS DRAWING HAVE BEEN PREPARED FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY. ALL MEASURES WILL BE SUBJECT TO DETAIL DESIGN AT THE CONSTRUCTION CERTIFICATE STAGE AND MAY BE SUBJECT TO VARIATION PROVIDED THAT THE DESIGN INTENT IS MAINTAINED.

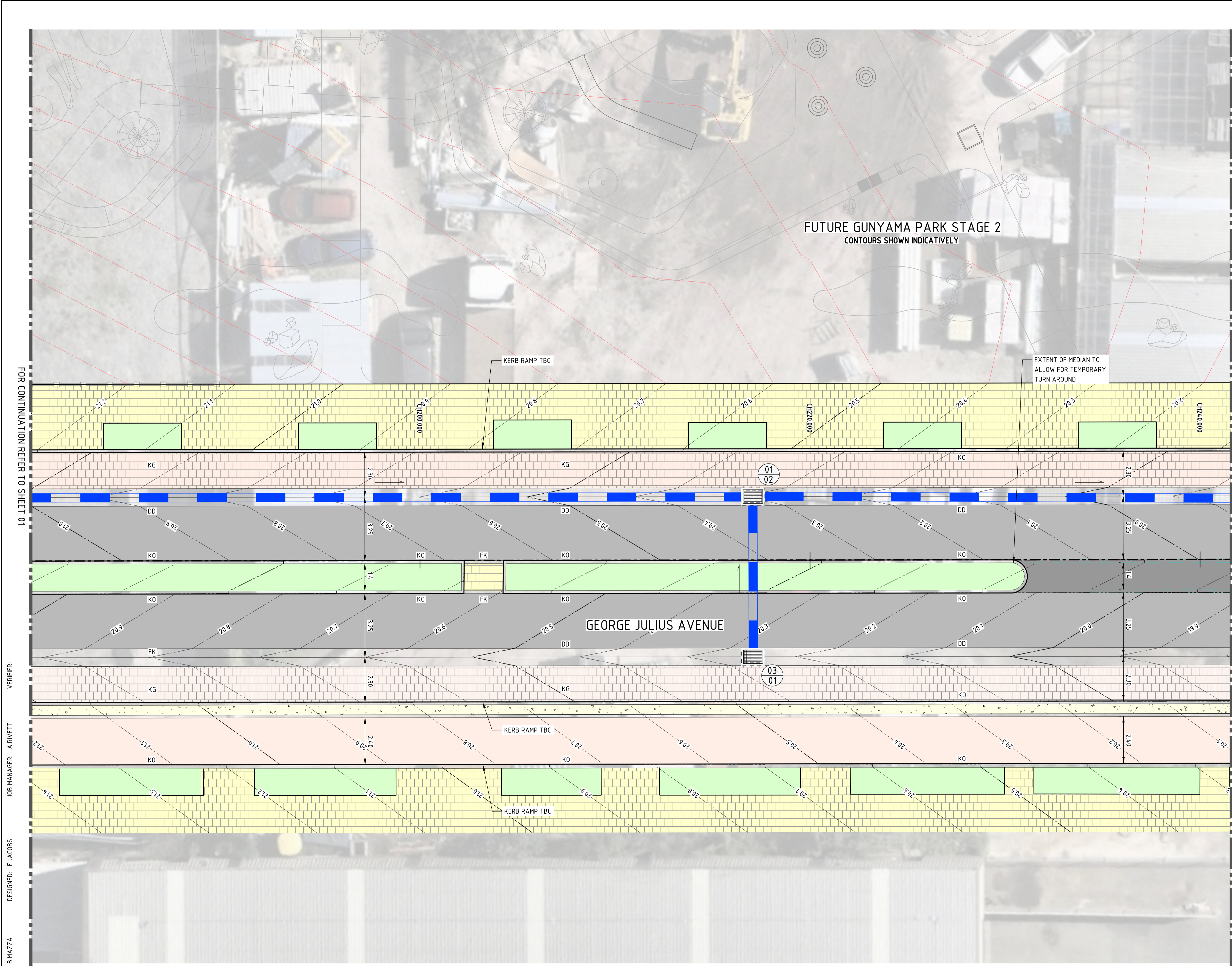
REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT			PROJECT	DRAWING TITLE	JOB NUMBER						
01	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	20.06.23			<p>ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK.</p> <p>NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.</p> <p>THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE</p>	 <p>Sydney</p> <p>Level 11 345 George Street, Sydney NSW 2000</p> <p>Ph (02) 9241 4188 Fax (02) 9241 4324</p> <p>Email sydney@northrop.com.au ABN 81 094 433 100</p>	<p>PROJECT NAME</p> <p>GEORGE JULIUS AVENUE</p> <p>PUBLIC DOMAIN</p>	<p>CIVIL ENGINEERING PACKAGE</p> <p>223309</p> <p>SPECIFICATION NOTES - SHEET 01</p>	<table><tr><th>DRAWING NUMBER</th><th>REVISION</th></tr><tr><td>C101.11</td><td>01</td></tr><tr><td colspan="2">DRAWING SHEET SIZE = A1</td></tr></table>	DRAWING NUMBER	REVISION	C101.11	01	DRAWING SHEET SIZE = A1	
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DRAWING TITLE CIVIL ENGINEERING PACKAGE SITEWORKS AND STORMWATER MANAGEMENT PLAN - SHEET 01	JOB NUMBER 223309	
	DRAWING NUMBER C104.01	REVISION 02
	DRAWING SHEET SIZE = A1	
	(Empty space for notes or additional information)	

REVISION		DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	 <div>Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100</div>		PROJECT	DRAWING TITLE	JOB NUMBER	
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02		ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	20.06.23								
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												DRAWING SHEET SIZE = A1		



LEGEND	
	EXISTING BOUNDARY LINE
	EASEMENT LINE
	PROPOSED KERB
	EXISTING WORKS BY OTHERS
	SAWCUT AND PAVEMENT INFILL
eXX	EXISTING KERB 'TYPE AS BELOW'
KO	KERB ONLY
KG	KERB AND GUTTER
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DD	DISH DRAIN
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MTE	MATCH TO EXISTING
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	NEW DRAINAGE STRUCTURE
S S D	SUBSOIL DRAINAGE LINE
	CONTROL LINE
	LIMIT OF WORKS
	PAVEMENT - TYPE 1 FLEXIBLE PAVEMENT
	PAVEMENT - TYPE 2 CONCRETE UNIT PAVING
	PAVEMENT - TYPE 3 CYCLE LANE PAVEMENT
	PAVEMENT - TYPE 4 FOOTPATH CONCRETE UNIT PAVING
	INSITU CONCRETE
	LANDSCAPING - TYPE 1 MASS PLANTING REFER TO LANDSCAPE ARCHITECT FOR DETAILS
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	TEMPORARY FLEXIBLE PAVEMENT



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CITY OF SYDNEY	ARCHITECT
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PROJECT	PROJECT NAME
	GEORGE JULIUS AVENUE
	PUBLIC DOMAIN

DRAWING TITLE	CIVIL ENGINEERING PACKAGE
SITeworks AND STORMwater	MANAGEMENT PLAN - SHEET 02

JOB NUMBER	223309
DRAWING NUMBER	C104.02
REVISION	02
DRAWING SHEET SIZE = A1	

JOB NUMBER	223309
DRAWING NUMBER	C104.02
REVISION	02
DRAWING SHEET SIZE = A1	

FOR CONTINUATION REFER TO SHEET 04

FOR CONTINUATION REFER TO SHEET 02

VERIFIER:

JOB MANAGER: A RIVETT

DESIGNED: E JACOBS

DRAWN: B MAZZA

FUTURE GUNYAMA PARK STAGE 2
CONTOURS SHOWN INDICATIVELY

FUTURE ZETLAND AVENUE
CONTOURS SHOWN INDICATIVELY

GEORGE JULIUS AVENUE

TEMPORARY RETAINING
WALL APPROXIMATELY
1METRE MAX HEIGHT.
FITTED WITH CRASH
BARRIERS

LEGEND

- EXISTING BOUNDARY LINE
EASEMENT LINE
PROPOSED KERB
EXISTING WORKS BY OTHERS
SAWCUT AND PAVEMENT INFILL
EXISTING KERB 'TYPE AS BELOW'
KERB ONLY
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CITY OF SYDNEY

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place
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0 1 2 3 4 5m

NORTHROP

Sydney

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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

PROJECT NAME
GEORGE JULIUS AVENUE
PUBLIC DOMAIN

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

SITeworks AND STORMWATER
MANAGEMENT PLAN - SHEET 03

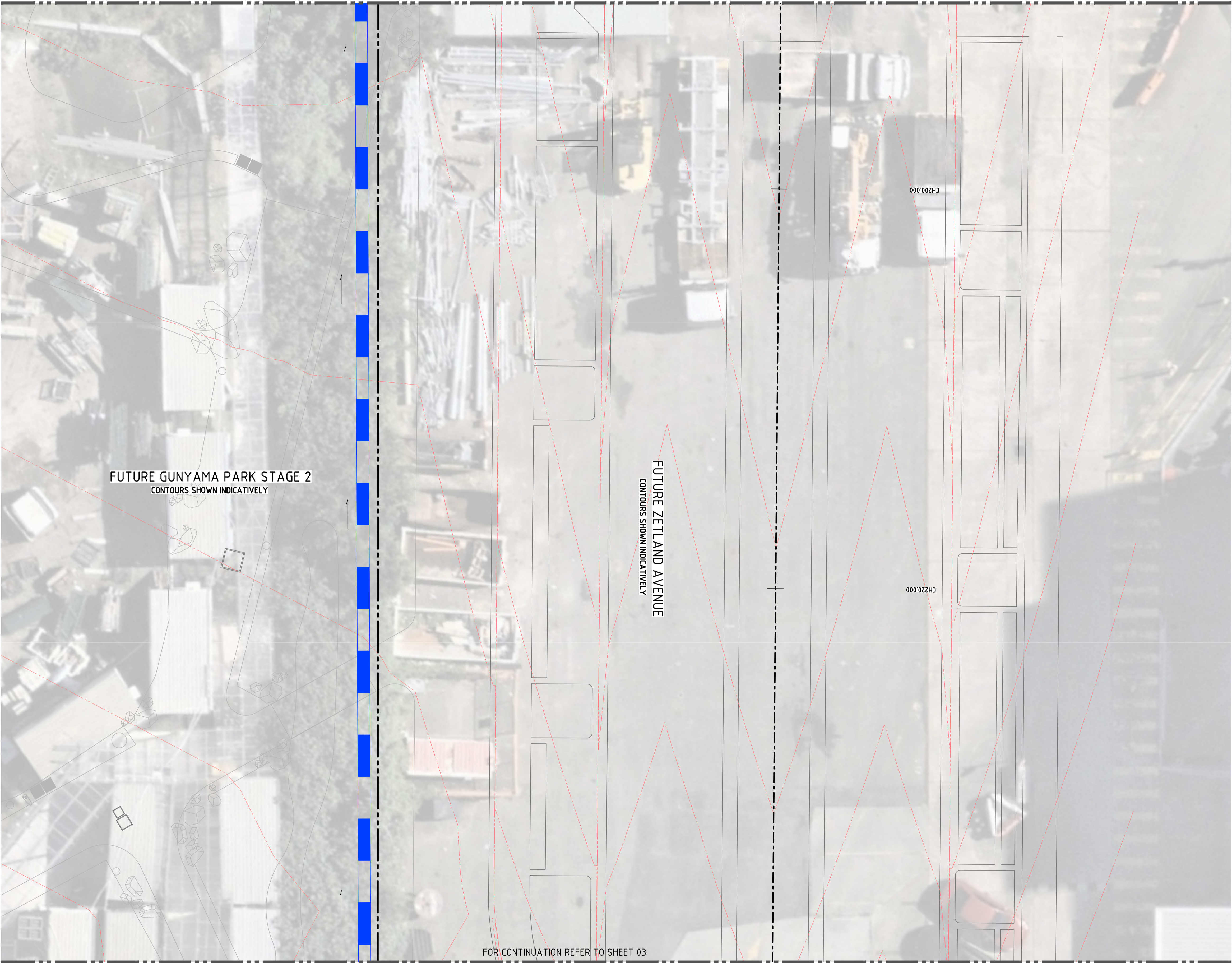
JOB NUMBER
223309

DRAWING NUMBER
C104.03

REVISION
02

DRAWING SHEET SIZE = A1

DRAWN: BMAZZA DESIGNED: E.JACOBS JOB MANAGER: A.RIVETT VERIFIER:



LEGEND	
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Sydney
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Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

PROJECT NAME
GEORGE JULIUS AVENUE
PUBLIC DOMAIN

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

SITeworks AND STORMWATER
MANAGEMENT PLAN - SHEET 04

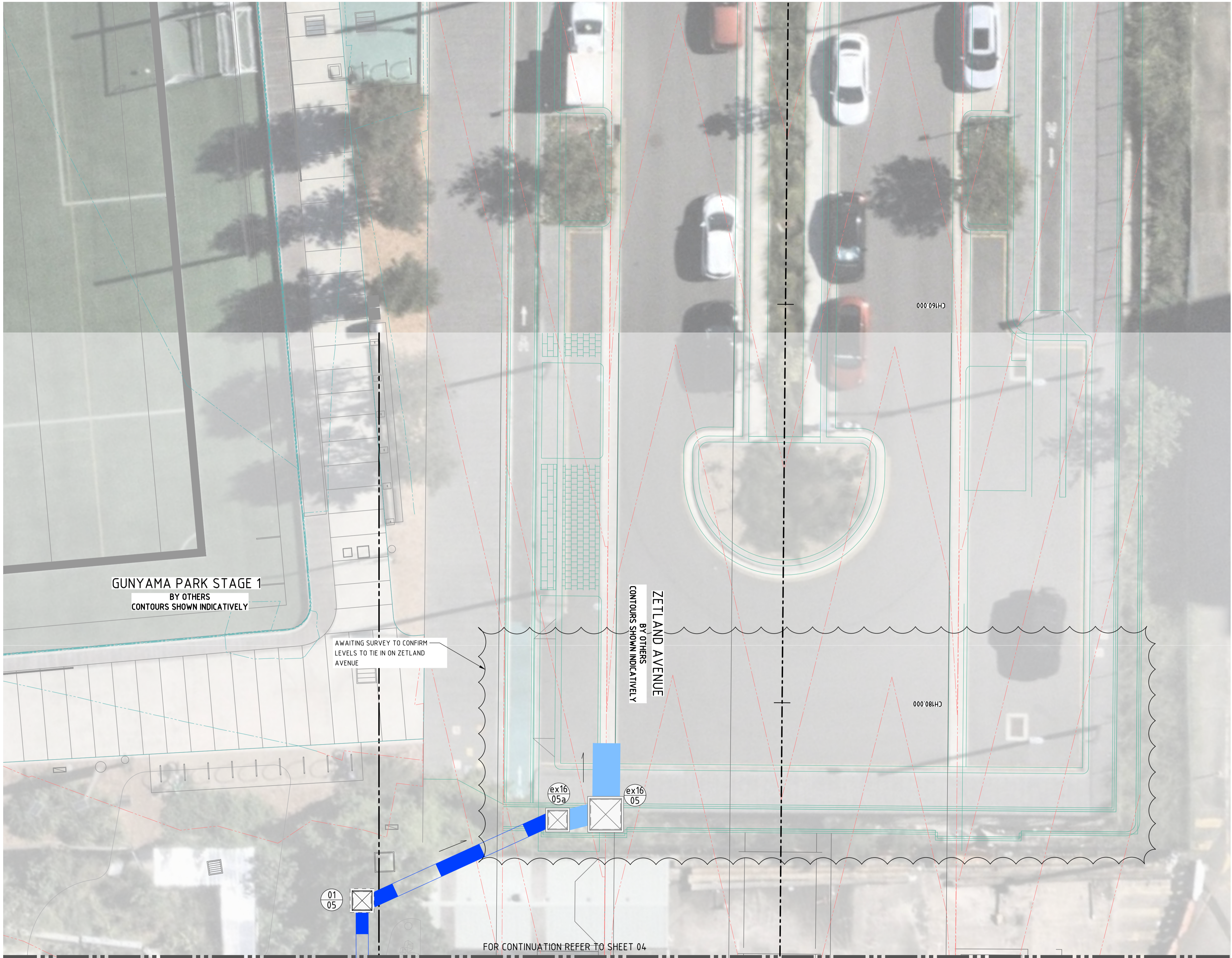
JOB NUMBER
223309

DRAWING NUMBER
C104.04

REVISION
01

DRAWING SHEET SIZE = A1

DRAWN: BMAZZA
DESIGNED: E.JACOBS
JOB MANAGER: A.RIVETT
VERIFIER:



LEGEND	
	EXISTING BOUNDARY LINE
	EASEMENT LINE
	PROPOSED KERB
	EXISTING WORKS BY OTHERS
	SAWCUT AND PAVEMENT INFILL
eXX	EXISTING KERB 'TYPE AS BELOW'
KO	KERB ONLY
KG	KERB AND GUTTER
FK	FLUSH KERB
DD	DISH DRAIN
KR	KERB RAMP
	KERB RAMP
MTE	MATCH TO EXISTING
	DIRECTION OF GRADE
	BATTERS
	CONTOURS
	EXISTING CONTOURS
	PROPOSED STORMWATER PIPE
	EXISTING STORMWATER PIPE
	EXISTING DRAINAGE STRUCTURE
	NEW DRAINAGE STRUCTURE
	S S D S S D SUBSOIL DRAINAGE LINE
	CONTROL LINE
	LIMIT OF WORKS
	PAVEMENT - TYPE 1 FLEXIBLE PAVEMENT
	PAVEMENT - TYPE 2 CONCRETE UNIT PAVING
	PAVEMENT - TYPE 3 CYCLE LANE PAVEMENT
	PAVEMENT - TYPE 4 FOOTPATH CONCRETE UNIT PAVING
	INSITU CONCRETE
	LANDSCAPING - TYPE 1 MASS PLANTING REFER TO LANDSCAPE ARCHITECT FOR DETAILS
	LANDSCAPING - TYPE 2 WSUD
	TEMPORARY FLEXIBLE PAVEMENT



NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	20.06.23

CITY OF SYDNEY

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ARCHITECT

place design group.

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SCALE 1:100 @ A1

0 1 2 3 4 5m

NORTHROP

Sydney

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PROJECT

PROJECT NAME
GEORGE JULIUS AVENUE
PUBLIC DOMAIN

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

SITeworks AND STORMWATER
MANAGEMENT PLAN - SHEET 05

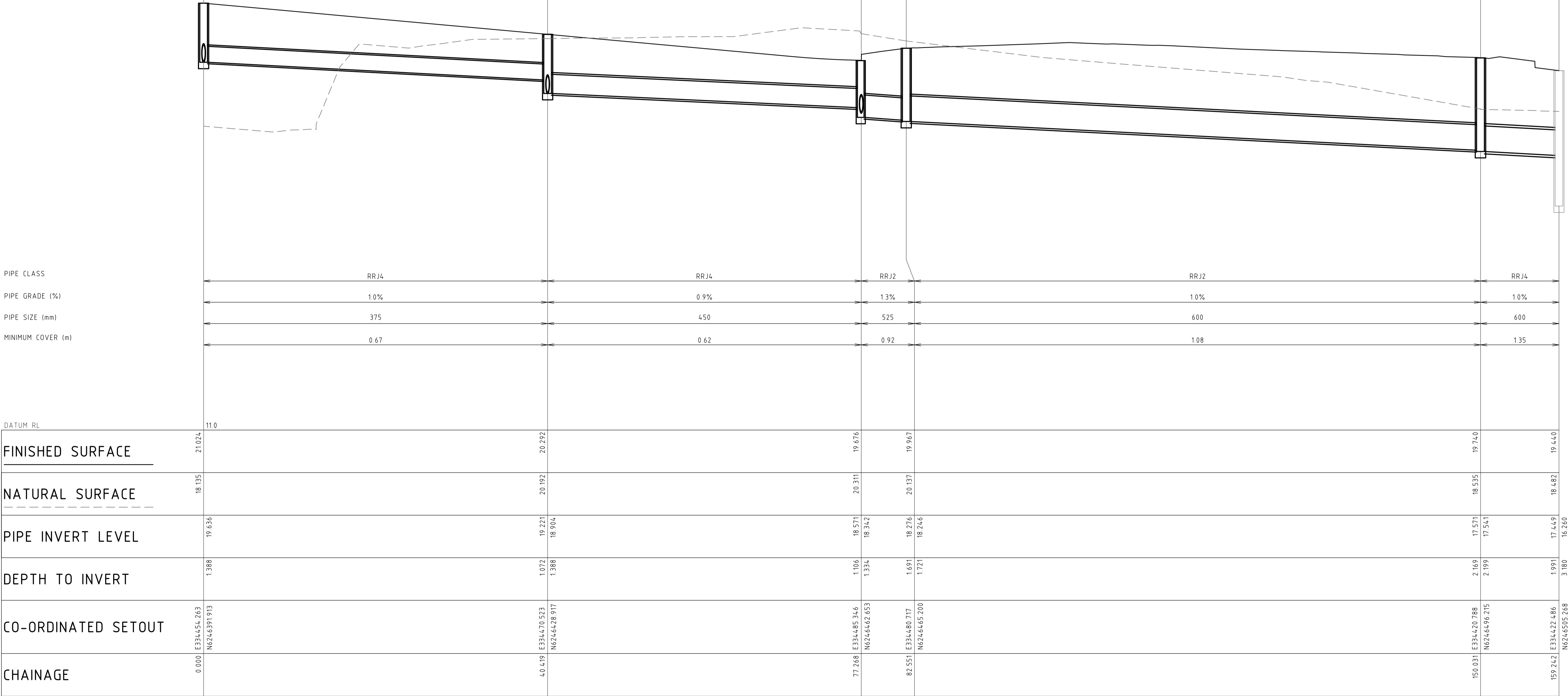
JOB NUMBER
223309

DRAWING NUMBER
C104.05

REVISION
01

DRAWING SHEET SIZE = A1

DRAWN: BMAZZA DESIGNED: E.JACOBS JOB MANAGER: A.RIVETT VERIFIER:



LINE 01

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT		PROJECT	DRAWING TITLE	JOB NUMBER	
01	ISSUED FOR 50% DESIGN DEVELOPMENT	BM		AR	26.05.23	<div>CITY OF SYDNEY</div> <div>DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED</div>	<div>place design group.</div> <div>THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD</div>	<div>ALL DIMENSIONS TO BE VERIFIED ON SITE BEFORE COMMENCING WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY. THIS DRAWING MAY HAVE BEEN PREPARED USING COLOUR, AND MAY BE INCOMPLETE IF COPIED TO BLACK & WHITE.</div>	<div><div>NORTHROP</div>Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100</div>	<div>PROJECT PROJECT NAME GEORGE JULIUS AVENUE PUBLIC DOMAIN</div>	<div>CIVIL ENGINEERING PACKAGE STORMWATER LONGITUDINAL SECTIONS - SHEET 01</div>	223309
02	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ	AR	20.06.23	DRAWING NUMBER							REVISION
					C105.01							02
					DRAWING SHEET SIZE = A1							

DRAWN: BMAZZA DESIGNED: E.JACOBS JOB MANAGER: A.RIVETT VERIFIER:

PIPE CLASS
PIPE GRADE (%)
PIPE SIZE (mm)
MINIMUM COVER (m)

DATUM RL		12.0	
FINISHED SURFACE		20.971	21.024
NATURAL SURFACE		18.175	18.135
PIPE INVERT LEVEL		19.972	19.666
DEPTH TO INVERT		1.049	1.358
CO-ORDINATED SETOUT		E334461806 N6246388696	E334454263 N6246391913
CHAINAGE		0.000	8.200

LINE 02

LINE 03


LINE 04

NOT FOR CONSTRUCTION

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR 50% DESIGN DEVELOPMENT	BM		AR	26.05.23
02	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	20.06.23



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PROJECT

PROJECT NAME
GEORGE JULIUS AVENUE
PUBLIC DOMAIN

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

STORMWATER LONGITUDINAL
SECTIONS - SHEET 02

JOB NUMBER

223309

DRAWING NUMBER

C105.02





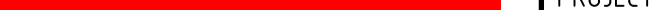























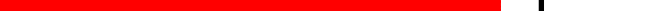






































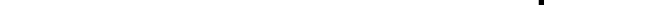
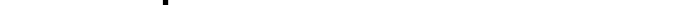
REVISION

02

DRAWING SHEET SIZE = A1

DRAWN: B. MAZZA



REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER
01	ISSUED FOR 50% DESIGN DEVELOPMENT	BM		AR	26.05.23				CIVIL ENGINEERING PACKAGE TYPICAL SECTIONS - SHEET 01	223309
02	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	20.06.23					
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										

DRAWN: BMAZZA DESIGNED: E.JACOBS JOB MANAGER: A.RIVETT VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR 50% DESIGN DEVELOPMENT	BM		AR	26.05.23
02	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	20.06.23



ARCHITECT



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PROJECT

DRAWING TITLE

JOB NUMBER

223309

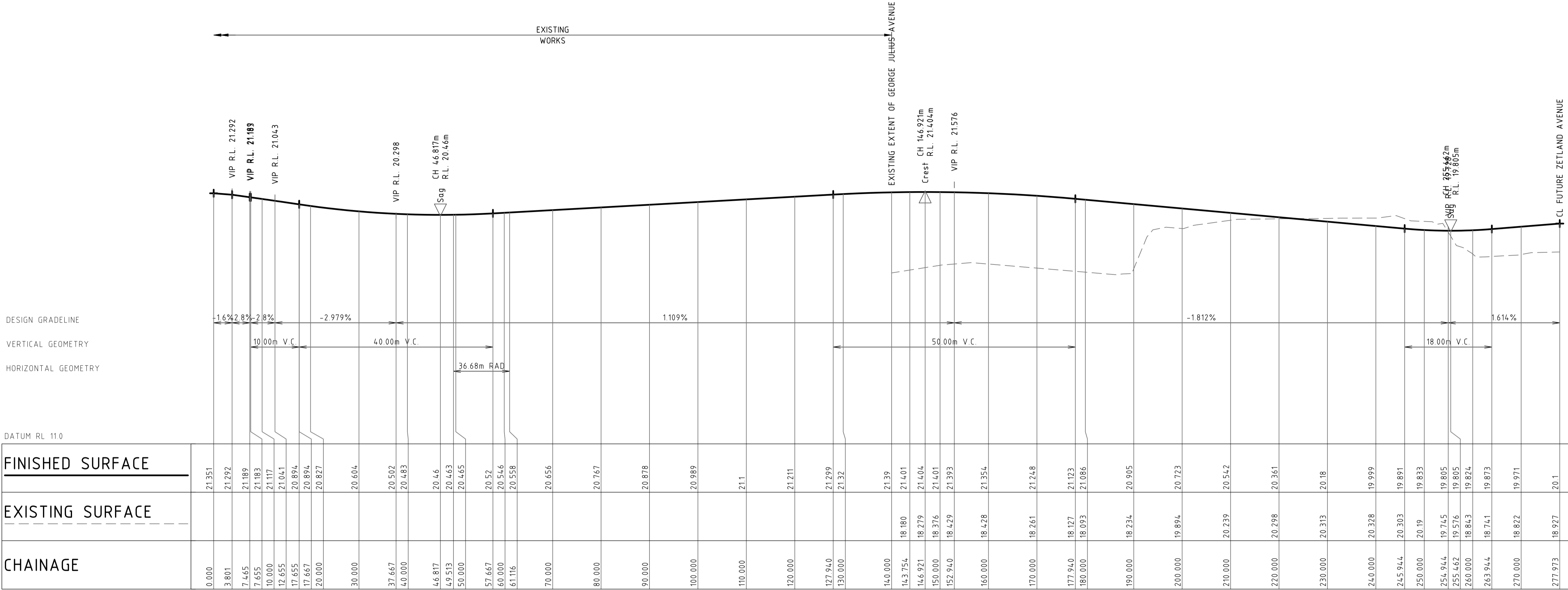
DRAWING NUMBER

C106.21

REVISION

02

DRAWING SHEET SIZE = A1



LONGITUDINAL SECTION ALONG MC01 (GEORGE JULIUS AVENUE)

HORIZONTAL SCALE 1:500 @A1
VERTICAL SCALE 1:100 @A1

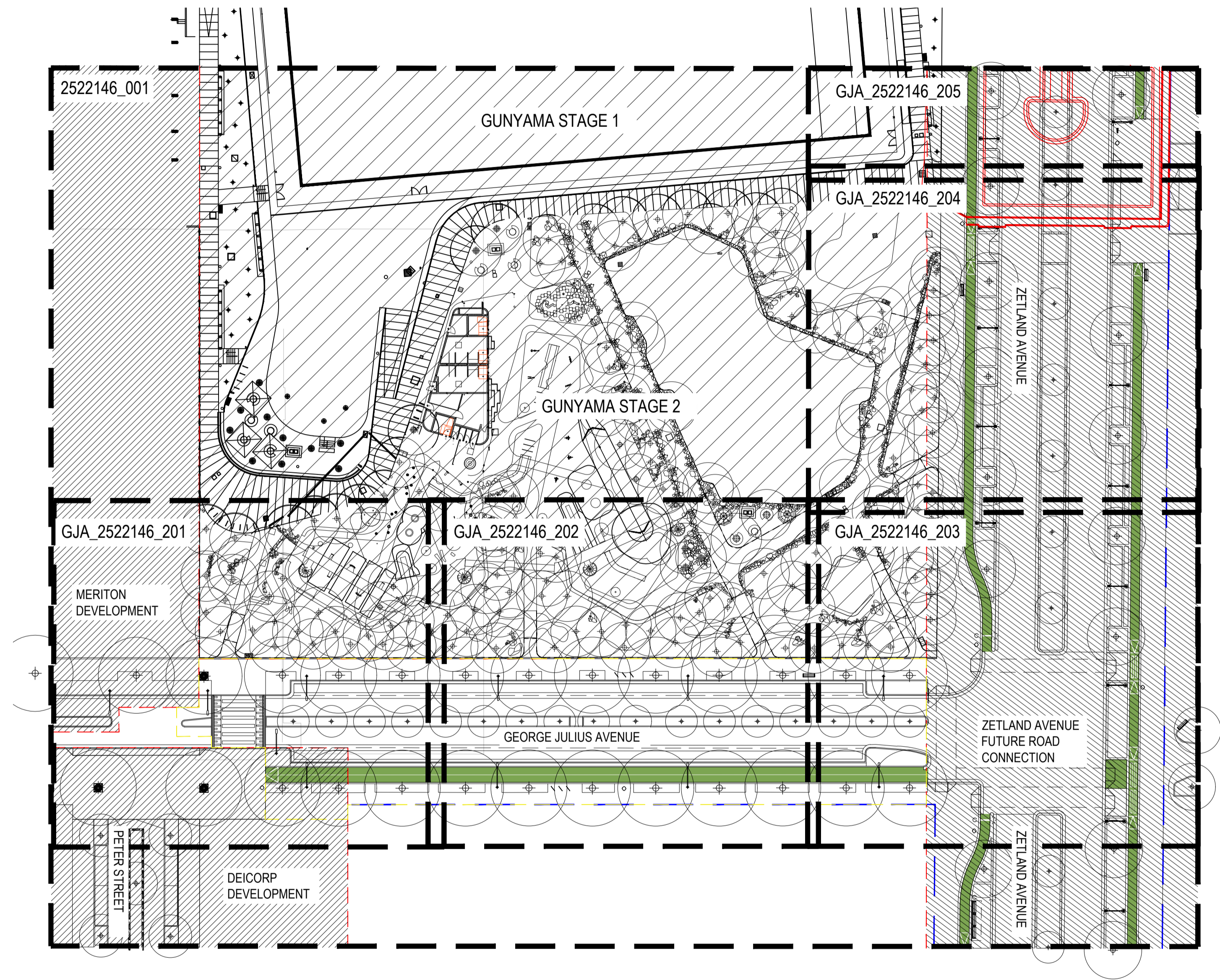
NOT FOR CONSTRUCTION

Format: I:\ms-01\projects\2022\223309\223309-01\Drawings\223309-01\06-21.dwg - g:\sydney\julia\external-drawings\223309-01\06-21.dwg

GEORGE JULIUS AVENUE - ROAD PACKAGE

GUNYAMA PARK - STAGE 2

50% DESIGN DEVELOPMENT



SCHEDULE OF DRAWINGS		NO.
COVER SHEET		GJA_2522146-000
SITE PLAN		GJA_2522146-001
SITE PLAN - CARBON STREET		GJA_2522146-002
SITE PLAN - BOUNDARY		GJA_2522146-003
SITE PREPARATION PLAN		GJA_2522146-101
SITE PREPARATION PLAN		GJA_2522146-102
SITE PREPARATION PLAN		GJA_2522146-103
MATERIALS SCHEDULE		GJA_2522146-200
GENERAL ARRANGEMENT PLAN		GJA_2522146-201
GENERAL ARRANGEMENT PLAN		GJA_2522146-202
GENERAL ARRANGEMENT PLAN		GJA_2522146-203
GENERAL ARRANGEMENT PLAN - CONCEPT ONLY		GJA_2522146-204
GENERAL ARRANGEMENT PLAN - CONCEPT ONLY		GJA_2522146-205
GENERAL ARRANGEMENT PLAN - INTERIM 1		GJA_2522146-206
GENERAL ARRANGEMENT PLAN - INTERIM 2		GJA_2522146-207
GENERAL ARRANGEMENT PLAN - INTERIM 3		GJA_2522146-208
LEVELS AND GRADING PLAN		GJA_2522146-301
LEVELS AND GRADING PLAN		GJA_2522146-302
LEVELS AND GRADING PLAN		GJA_2522146-303
LEVELS AND GRADING PLAN - CONCEPT ONLY		GJA_2522146-304
LEVELS AND GRADING PLAN - CONCEPT ONLY		GJA_2522146-305
PLANTING SCHEDULE		GJA_2522146-600
PLANTING PLAN		GJA_2522146-601
PLANTING PLAN		GJA_2522146-602
PLANTING PLAN		GJA_2522146-603
PLANTING PLAN - CONCEPT ONLY		GJA_2522146-604
PLANTING PLAN - CONCEPT ONLY		GJA_2522146-605
SECTIONS		GJA_2522146-801
SECTIONS		GJA_2522146-802
SECTIONS		GJA_2522146-803
DETAILS LIST		GJA_2522146-901

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SYDNEY
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Waterloo NSW 2017
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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

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DRAFT

[illegible]

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

COVER SHEET

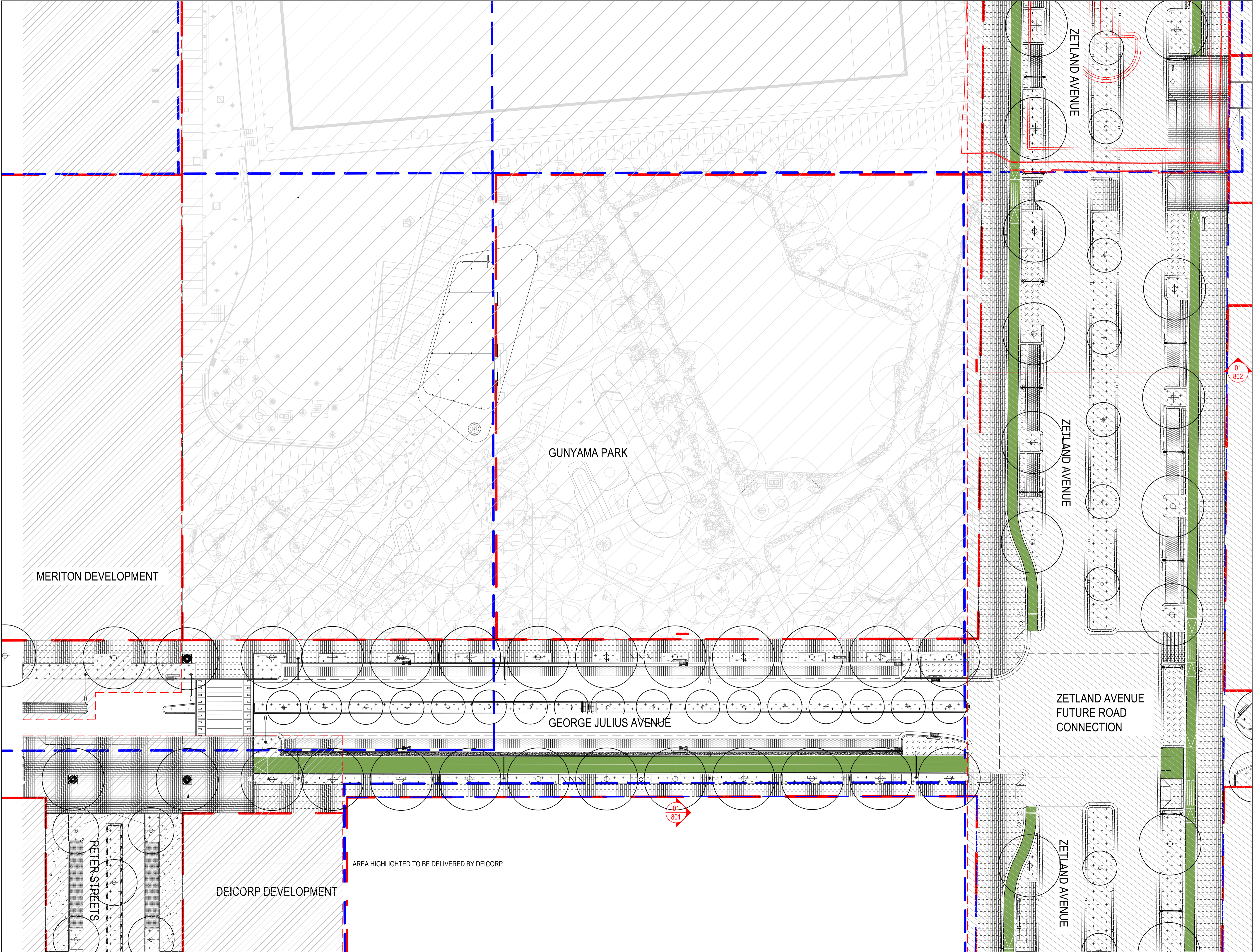
DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



NOT TO SCALE

DRAWING NUMBER
GJA_2522146-000

REVISION
01



SYDNEY
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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

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DRAFT

ISSUE	CODE	ISSUE DESCRIPTION	BY	CHK	DATE
01	PRE	50% DESIGN DEVELOPMENT	RH	LI	21.06.2023

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

SITE PLAN

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



SCALE 1:250 @ A1 1:500 @ A3

DRAWING NUMBER GJA_2522146-001
REVISION 01

GUNYAMA PARK STAGE 2

CITY OF SYDNEY

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ELEMENTS ARE INDICATIVE ONLY. ACTUAL
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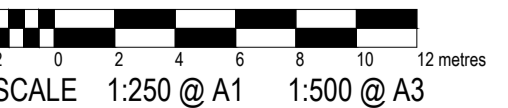
SUE	CODE	ISSUE DESCRIPTION	BY	CHK	DATE
01	PRE	50% DESIGN DEVELOPMENT	RH	LI	21.06.2023

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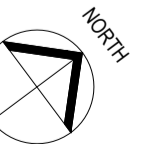
DRAWING TITLE

SITE PLAN - CARBON STREET

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



DRAWING NUMBER	REVISION
GJA_2522146-002	01



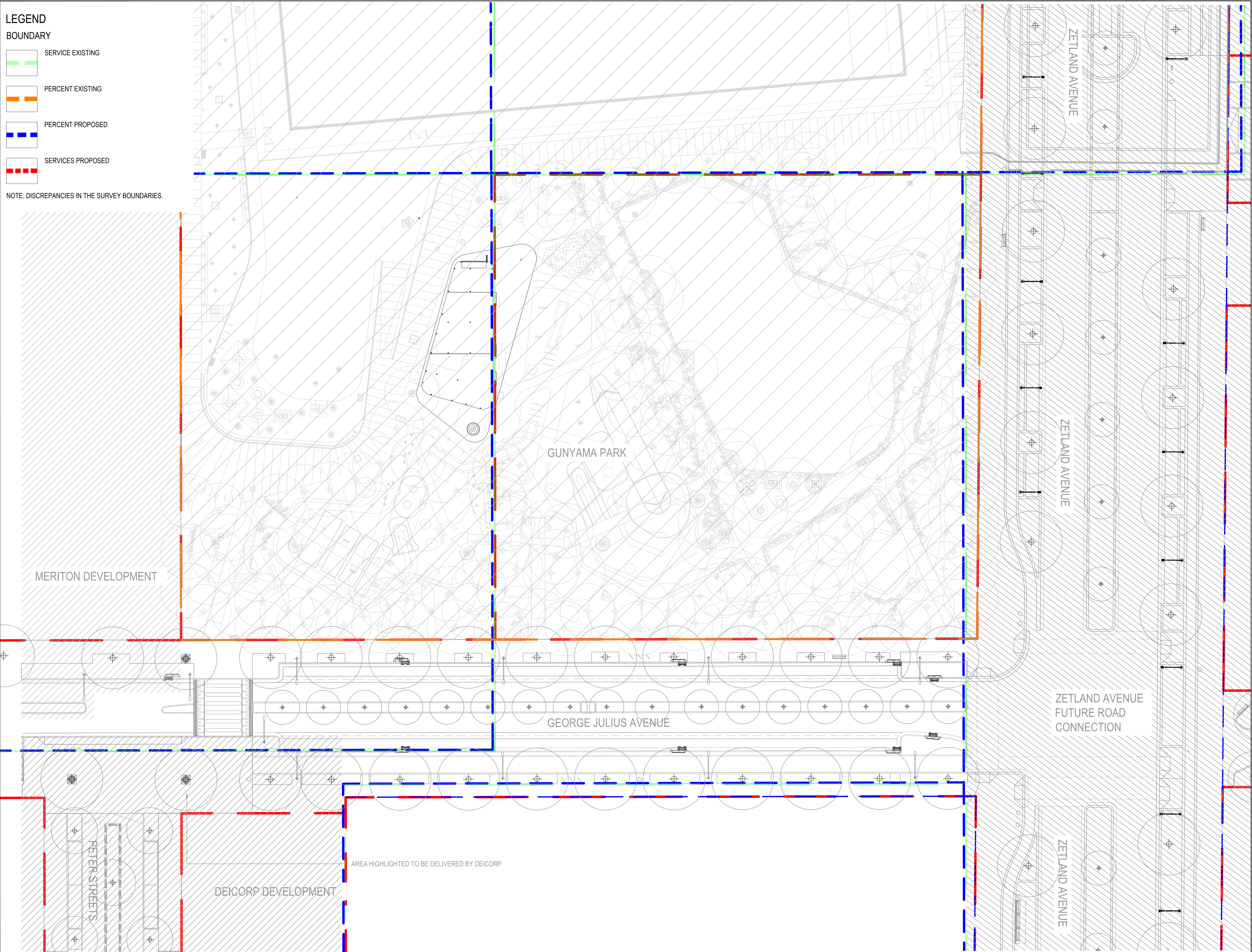
LEGEND

BOUNDARY

SERVICE EXISTING

PERCENT EXISTING

NOTE: DISCREPANCIES IN THE SURVEY BOUNDARIES.



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SYDNEY
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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

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ISSUE	CODE	ISSUE DESCRIPTION	BY	CHK	DATE
01	PRE	50% DESIGN DEVELOPMENT	RH	LI	21.06.2023

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

SITE PLAN -
BOUNDARY

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

SCALE 1:250 @ A1 1:500 @ A3

DRAWING NUMBER
GJA_2522146-003

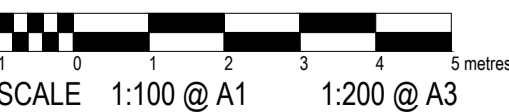
REVISION
01



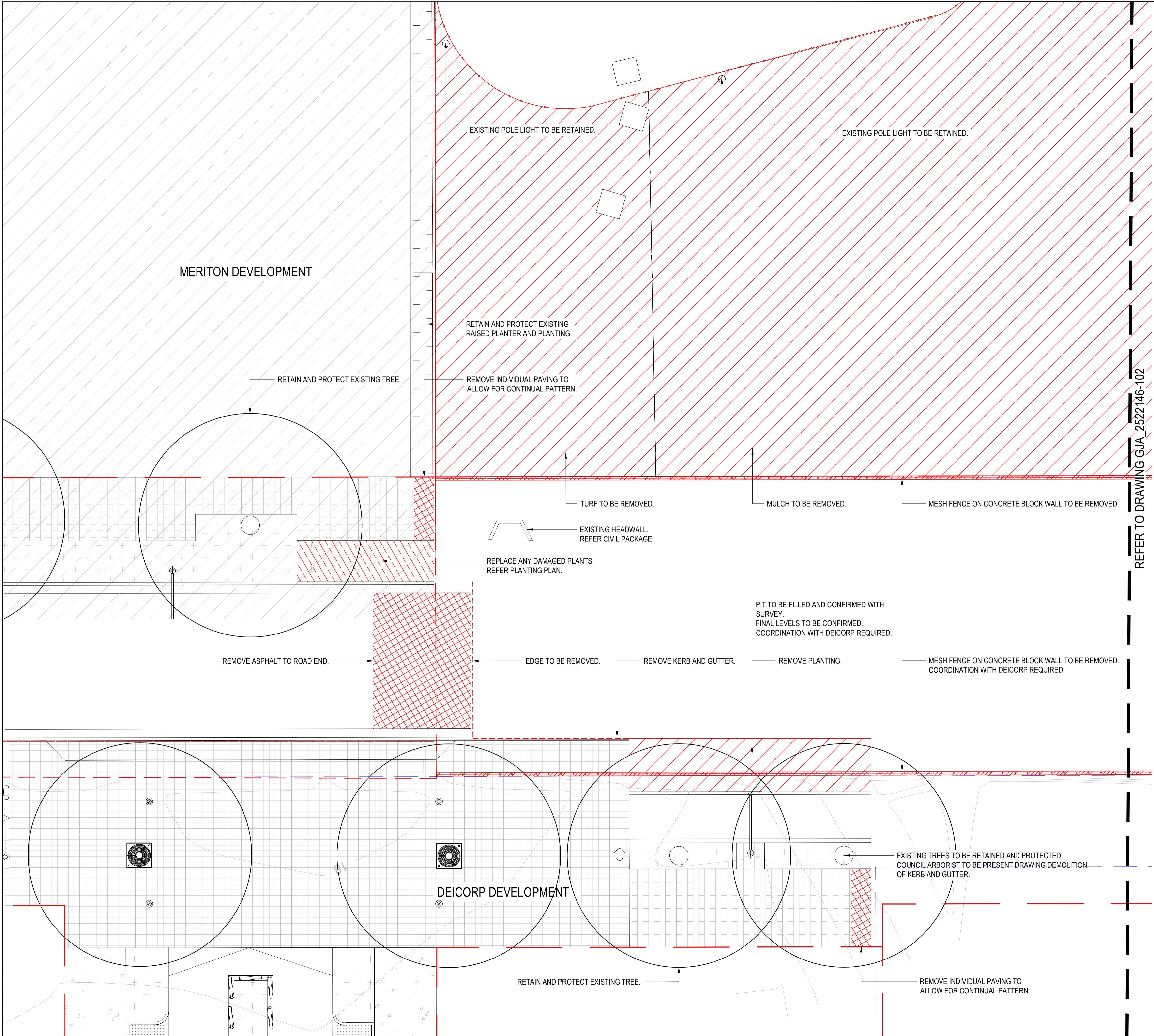
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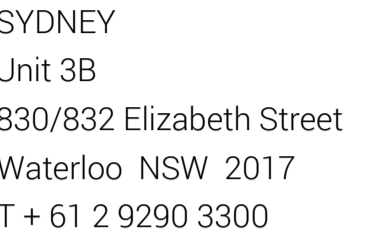
SITE PREPARATION PLAN

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



DRAWING NUMBER	REVISION
GJA 2522146-101	01





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GUNYAMA PARK
STAGE 2

CITY OF SYDNEY

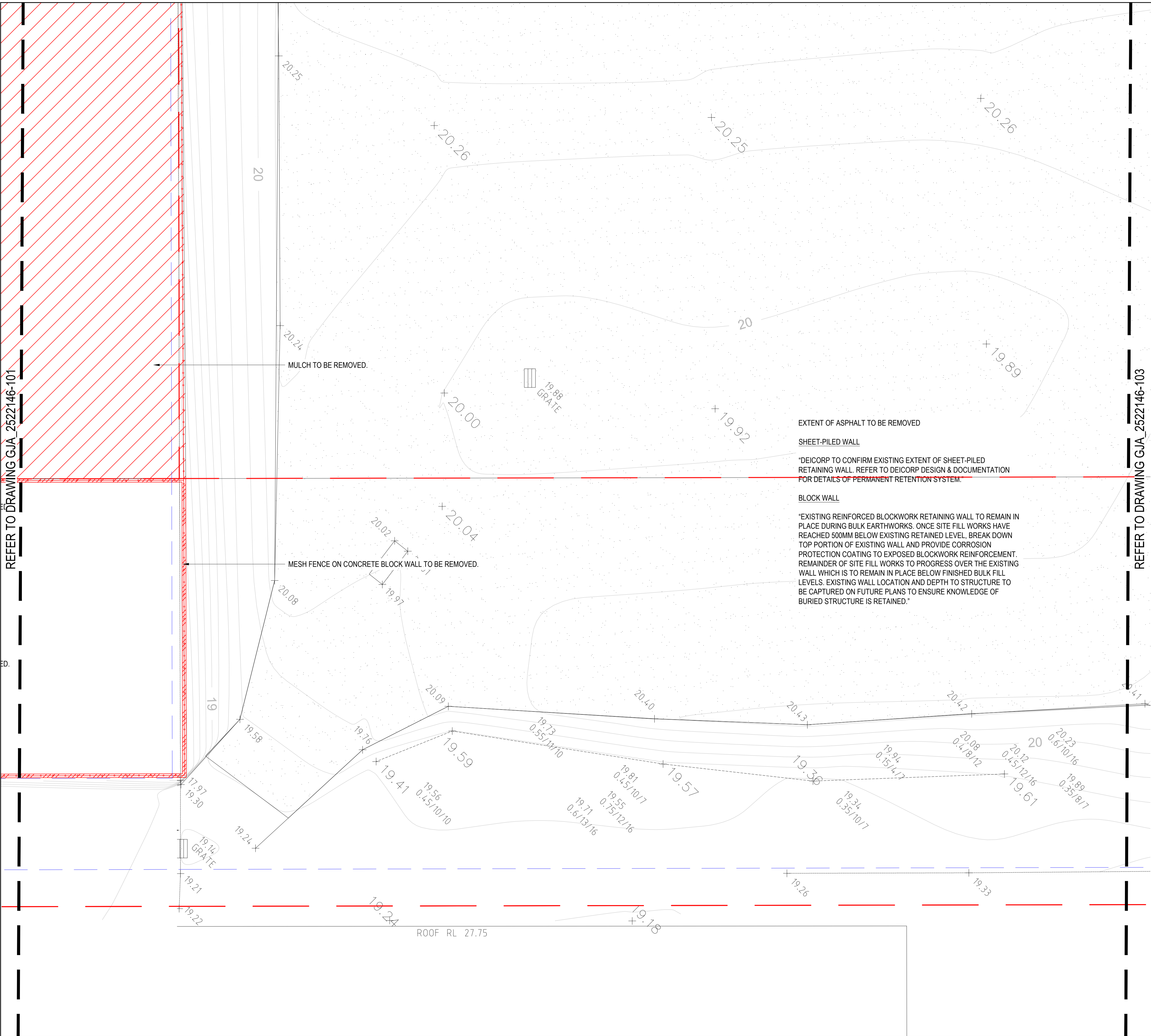
SIZES OF AND DIMENSIONS TO ANY SERVICE
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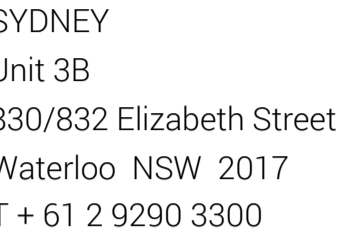
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SITE PREPARATION PLAN



DRAWING NUMBER	REVISION
GJA_2522146-102	01





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PROJECT

GUNYAMA PARK STAGE 2

CLIENT

CITY OF SYDNEY

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DRAFT

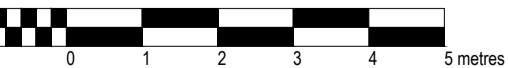
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PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

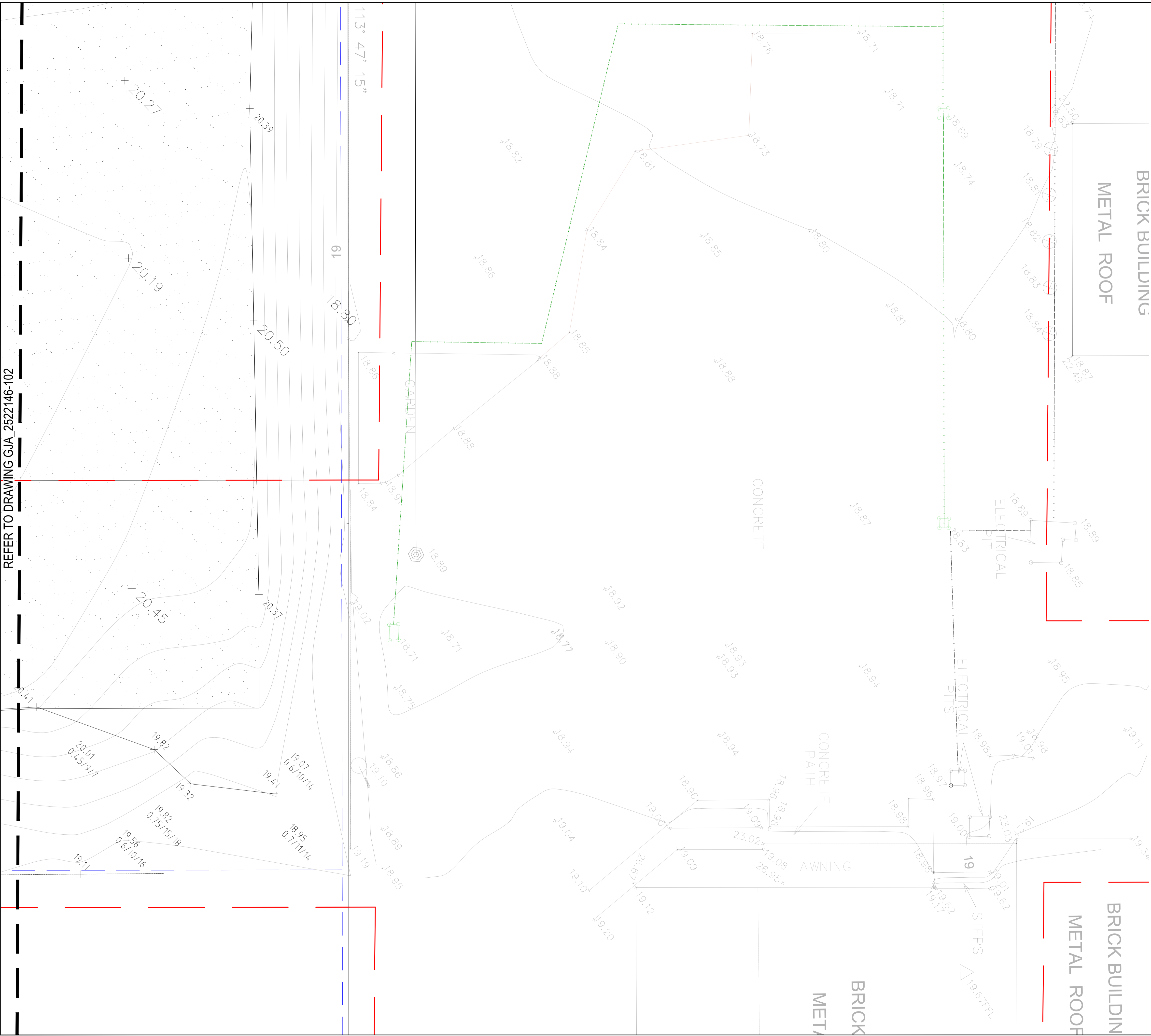
SITE PREPARATION PLAN

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146




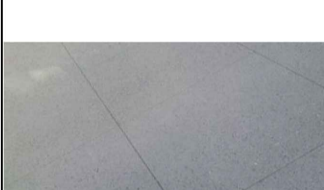



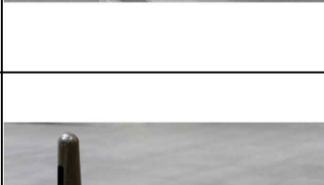
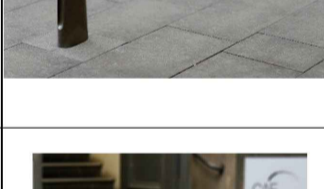


SCALE 1:100 @ A1 1:200 @ A3

DRAWING NUMBER	REVISION
GJA_2522146-103	01



2522146_GJA_Gunyama Park_Finishes and Selection Schedule						
CODE	DESCRIPTION	COS DETAIL	DESCRIPTION	RECOMMENDED SUPPLIER	UNLK	IMAGE
SOFTWORKS						
TP1	TREE PIT BLISTER (BROKEN KERB)	C2.3.12	Tree grate with structural soil	Contractor	https://www.cityofsydney.nsw.gov.au/strategies-action-plans/street-tree-master-plan-2011	
TP2	TREE PIT IN PAVING	C2.3.12	Concrete unit paving Treepit arrangement	Contractor	https://www.cityofsydney.nsw.gov.au/strategies-action-plans/street-tree-master-plan-2011	
TP3	TREE IN MASS PLANTING	Refer mass planting	Refer mass planting Is structural soil required as per C2.1.7	Contractor	https://www.cityofsydney.nsw.gov.au/strategies-action-plans/street-tree-master-plan-2011	
MP1	MASS PLANTING - VERGE	Type 4 - Street tree master plan		Contractor	https://www.cityofsydney.nsw.gov.au/strategies-action-plans/street-tree-master-plan-2011	
MP2	MASS PLANTING - MEDIAN	Street tree master plan	Indicative detail in road median planting	Contractor	https://www.cityofsydney.nsw.gov.au/strategies-action-plans/street-tree-master-plan-2011	
MP3	SWALES/ RAIN GARDEN PLANTING	C7.22 - UNLINED 7.2.3 - UNLINED; SUBMERGED ZONE 7.2.4 - UNLINED Civil to confirm		Contractor	https://www.cityofsydney.nsw.gov.au/strategies-action-plans/street-tree-master-plan-2011	
WALLS, EDGES AND FENCES						
KB1	BLUE STONE KERB			Contractor	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
KB1	BLUE STONE FLUSH KERB			Contractor	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
KB2	CONCRETE KERB (Only)	C1.1.2	25MPa Concrete Kerb Expansion joints to be placed at 15m intervals and the interface with other fixed structures. Height: 150mm Width: 150mm	Contractor	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
KB3	FLUSH CONCRETE KERB (150mm)	C1.1.2	25MPa Concrete Kerb Expansion joints to be placed at 15m intervals and the interface with other fixed structures. Height: 150mm Width: 150mm	Contractor	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
KB4	BROKEN KERB			Contractor	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
KG	CONCRETE KERB AND GUTTER	C1.1.2	25MPa Concrete Kerb Expansion joints to be placed at 15m intervals and the interface with other fixed structures. (Refer Items for dimensions)	Contractor	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
G1	CONCRETE GUTTER	C1.1.2	25MPa Concrete Kerb Expansion joints to be placed at 15m intervals and the interface with other fixed structures. Width: 450mm	Contractor	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
DD	DISH DRAIN	C1.1.2	25MPa Concrete dish crossing on 150mm thick compacted DGB20 Width: 900mm	Contractor	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	

PAVEMENTS + SURFACES						
P1	PAVING TYPE 1 - CONCRETE UNIT PAVING	C2.3.1 C2.3.4 C2.3.5 C2.3.8 C2.3.11 C2.1.2 C2.1.4 C2.1.5 C2.1.8	Product: Concrete Pavers Colour: ppx254-400 Finish: Honed Size: 600mm x 400mm x 60mm thick	Address: 238 Woodpark Road, Smithfield NSW 2164 Phone: (02) 9604 3100 https://www.pebblecrete.com.au/concrete-pavers/	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
P2	PAVING TYPE 2 - CAR PARKING BAYS HIGH ORDER	C3.1.10	Product: Ecotrihex Colour: Silver Finish: Standard	Address: 20 Kelso Cres, Moorebank NSW 2170 Phone: (02) 9822 6822	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
P3	PAVING TYPE 3 - SHARED ENVIRONMENT	C3.1.9	Product: Bipave80 Colour: Natural Finish: Steel Honed Size: 230mm x 115mm x 80mm thick	Address: 20 Kelso Cres, Moorebank NSW 2170 Phone: (02) 9822 6822 https://www.adbrimasonry.com.au/products/bipave-80-professional/	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
P4	PAVING TYPE 4 - INSITU CONCRETE				https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
P5	PAVING TYPE 5 - ASPHALT	C3.1.1	Civil to confirm		https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
FURNITURE AND FIXTURES						
F1	OUTDOOR BENCH TYPE 1	C4.2.1 & C4.2.2	Product: Tzannes 'Village Suite' Bench Part Number: PN0125PC Cast Aluminium Body: Primed and powder coated bronze Fixing: To manufacturers specification	ABUD (Australian Built Urban Designs) Address: 82 Oak Road, Kirrawee NSW 2232 Phone: (+61) 02 9710 9501	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
B1	BIN TYPE 1	C4.3.1	Product: Tzannes 'Village Suite' Bin Part Number: PN0131 and legs: 316SS Cast Aluminium doors: Powder coated Metropolis Bronze Ash Tray: 316 SS	ABUD (Australian Built Urban Designs) Address: 82 Oak Road, Kirrawee NSW 2232 Phone: (+61) 02 9710 9501	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
BL1	BOLLARD TYPE 1	C4.4.2	Product: Tzannes 'Village Suite' Bollard Part Number: PN0127 Cast Aluminium Body: Primed and powder coated bronze Fixing: To manufacturers specification	ABUD (Australian Built Urban Designs) Address: 82 Oak Road, Kirrawee NSW 2232 Phone: (+61) 02 9710 9501	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	
BK1	BIKERAIL TYPE 1	C5.1.1 - C5.1.8 (TBC)	Product: City of Sydney Standard Parks Bikerail Part Number: PN00143 Material: To manufacturers specification Fixing: Below ground	ABUD (Australian Built Urban Designs) Address: 82 Oak Road, Kirrawee NSW 2232 Phone: (+61) 02 9710 9501	https://www.cityofsydney.nsw.gov.au/design-codes-technical-specifications/sydney-streets	

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PROJECT

GUNYAMA PARK STAGE 2

CLIENT

CITY OF SYDNEY

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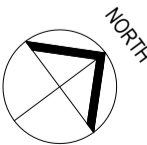
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DRAWING TITLE

MATERIALS SCHEDULE

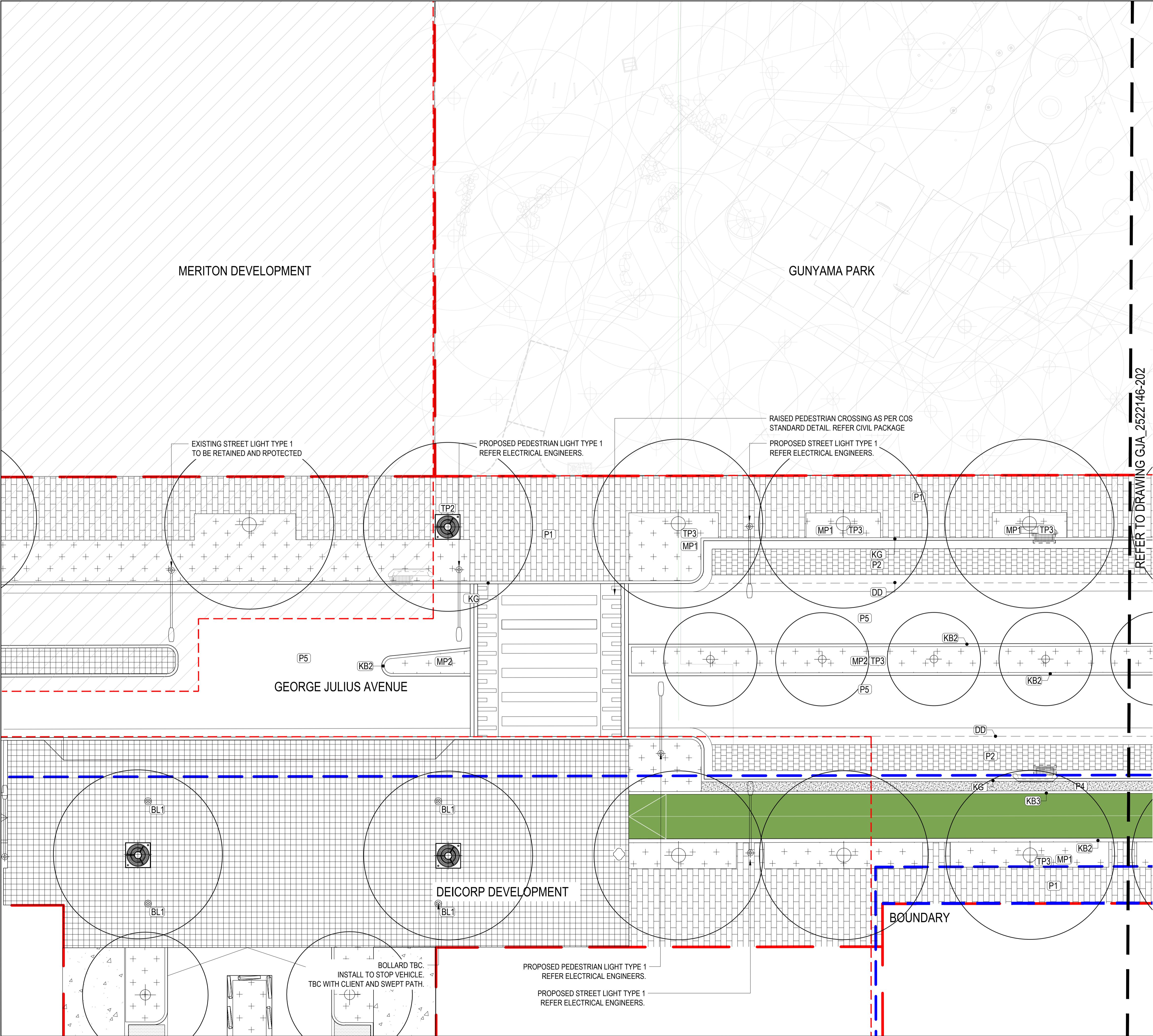
DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



NOT TO SCALE

DRAWING NUMBER
GJA 2522146-200

REVISION
01



LEGEND

SOFTWORKS - PLANTING

- PROPOSED STREET TREE
REFER TO DETAIL #####
AND PLANTING PLAN
- TP1 - TREE PIT BUSTER (BROKEN KERB)
REFER TO DETAIL #####
,SCHEDULE AND PLANTING PLAN
- TP2 - TREE PIT IN PAVING
REFER TO DETAIL #####
,SCHEDULE AND PLANTING PLAN
- TP3 - TREE IN MASS PLANTING
REFER TO DETAIL #####
,SCHEDULE AND PLANTING PLAN
- MP1 - MASS PLANTING -VERGE
REFER TO DETAIL #####
,SCHEDULE AND PLANTING PLAN
- MP2 - MASS PLANTING - MEDIAN
REFER TO DETAIL #####
,SCHEDULE AND PLANTING PLAN
- MP3 - SWALES/ RAIN GARDEN PLANTING
REFER TO DETAIL #####
,SCHEDULE AND PLANTING PLAN

HARDWORKS - PAVING

- P1 - PAVING TYPE 1 - CONCRETE UNIT PAVING
REFER TO DETAIL #####
AND MATERIALS SCHEDULE
- P2 - PAVING TYPE 2 - CAR PARKING HIGH ORDER
REFER TO DETAIL #####
AND MATERIALS SCHEDULE
- P3 - PAVING TYPE 3 - SHARED ENVIRONMENT
REFER TO DETAIL #####
AND MATERIALS SCHEDULE
- P4 - PAVING TYPE 4 - INSITU CONCRETE
REFER TO DETAIL #####
AND MATERIALS SCHEDULE
- P5 - PAVING TYPE 5 - ASPHALT
REFER TO DETAIL #####
AND MATERIALS SCHEDULE

HARDWORKS - KERBS

- KB1 - KERB TYPE 1 - BLUE STONE KERB
REFER TO ENGINEER'S DRAWINGS
- KB1 - KERB TYPE 1 - BLUE STONE FLSUH KERB
REFER TO ENGINEER'S DRAWINGS
- KB2 - KERB TYPE 2 - CONCRETE KERB (ONLY)
REFER TO ENGINEER'S DRAWINGS
- KB3 - KERB TYPE 3 - FLUSH CONCRETE KERB
(150MM)
REFER TO ENGINEER'S DRAWINGS
- KB4 - KERB TYPE 4 - BLUESTONE BROKEN KERB
REFER TO ENGINEER'S DRAWINGS
- KG - CONCRETE KERB AND GUTTER
REFER TO ENGINEER'S DRAWINGS
- G1 - GUTTER TYPE 1 - CONCRETE GUTTER
REFER TO ENGINEER'S DRAWINGS
- DD - DISH DRAIN
REFER TO ENGINEER'S DRAWINGS

HARDWORKS - FUTNITURE

- F1 - OUTDOOR BENCH TYPE 1
REFER TO MATERIALS SCHEDULE
- B1 - BIN TYPE 1
REFER TO MATERIALS SCHEDULE
- BL1 - BOLLARD TYPE 1
REFER TO MATERIALS SCHEDULE
- BK1 - BIKERAIL TYPE 1
REFER TO MATERIALS SCHEDULE

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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

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DRAFT

ISSUE	CODE	ISSUE DESCRIPTION	BY	CHK	DATE
01	PRE	50% DESIGN DEVELOPMENT	RH	LI	21.06.2023

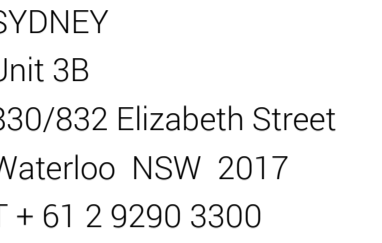
PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

GENERAL ARRANGEMENT
PLAN

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

SCALE 1:100 @ A1 1:200 @ A3
DRAWING NUMBER GJA_2522146-201 REVISION 01



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PROJECT

GUNYAMA PARK
STAGE 2

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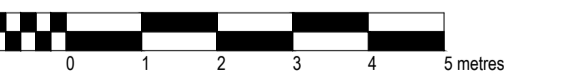
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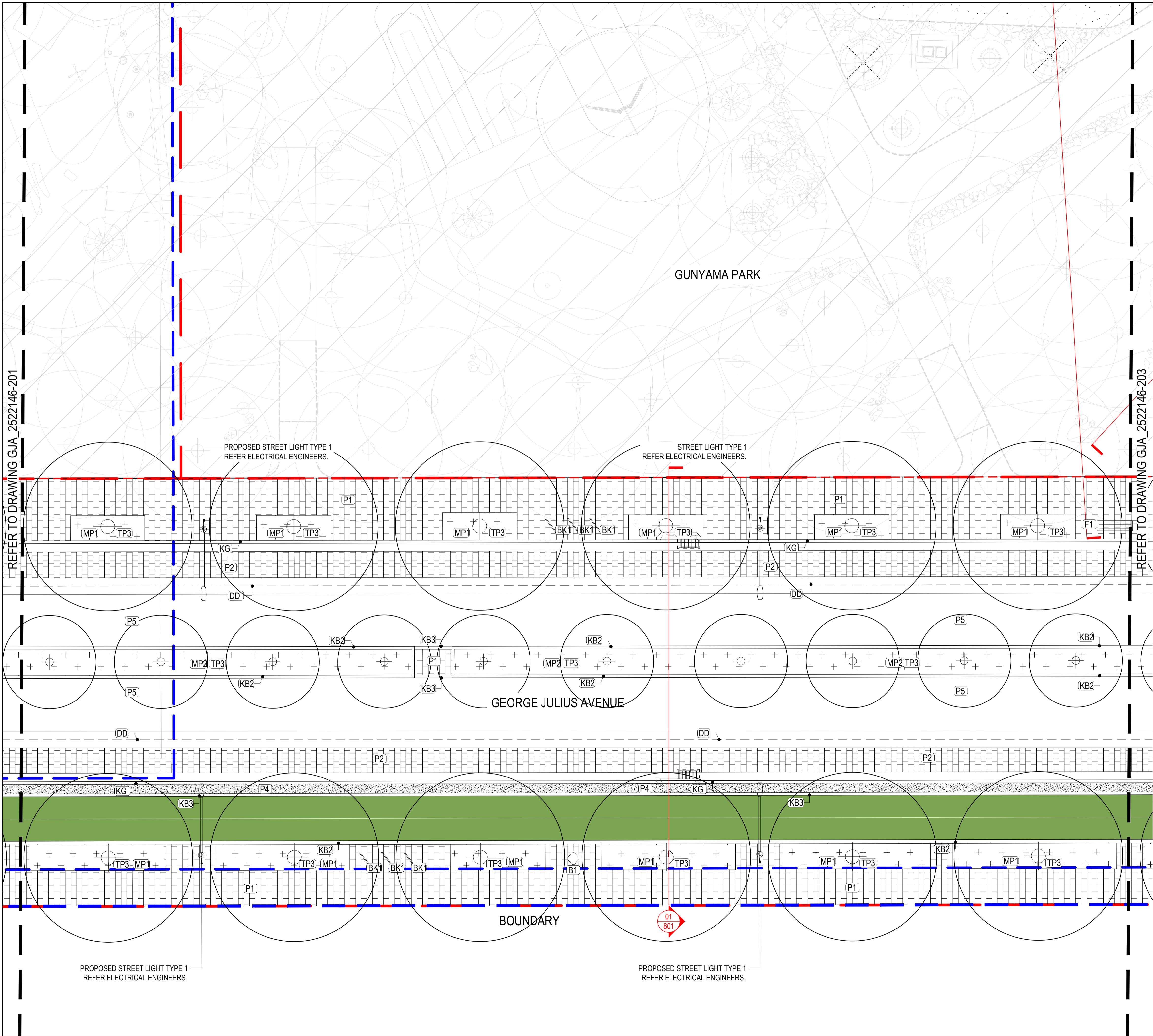
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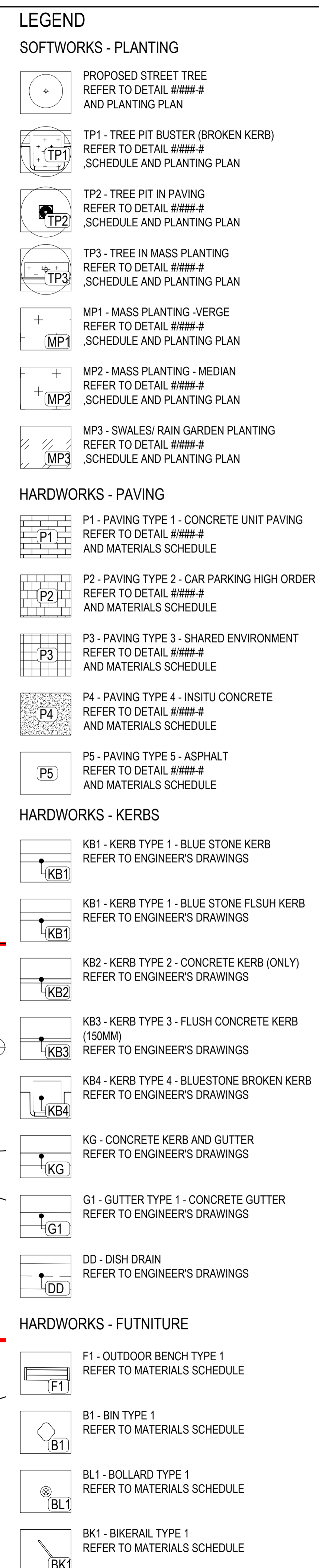
GENERAL ARRANGEMENT PLAN

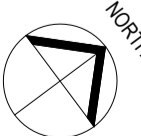
DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

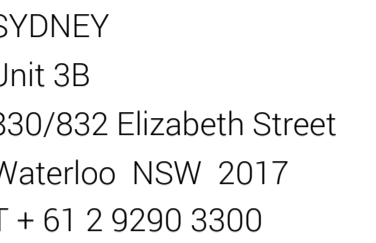


SCALE 1:100 @ A1	1:200 @ A3
DRAWING NUMBER	REVISION
GJA 2522146-202	01









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GUNYAMA PARK STAGE 2

CITY OF SYDNEY

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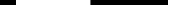
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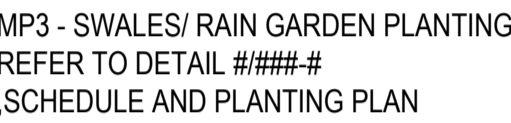
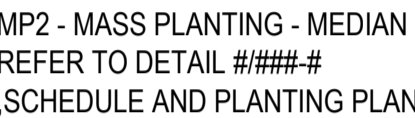
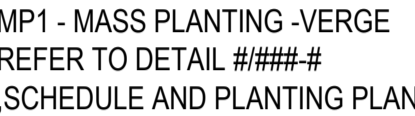
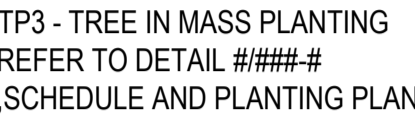
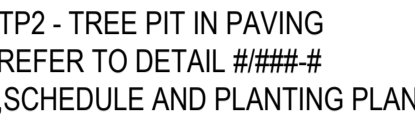
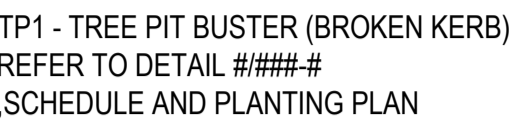
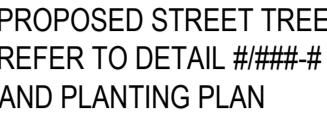
PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

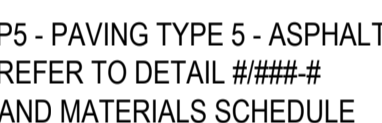
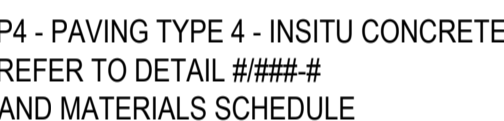
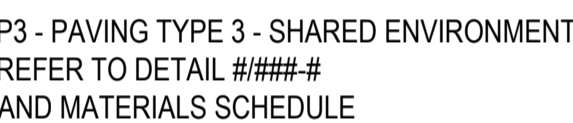
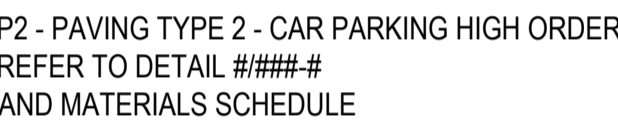


	
SCALE 1:100 @ A1	1:200 @ A3
DRAWING NUMBER	REVISION
GJA 2522146-205	01

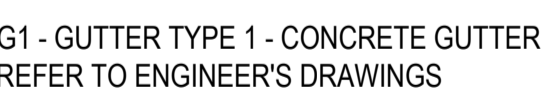
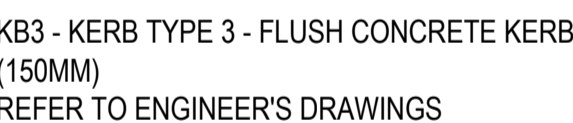
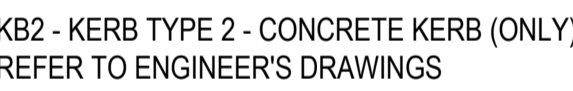
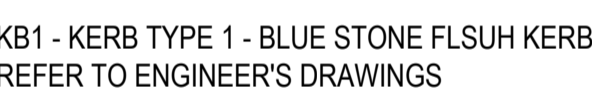
SOFTWORKS - PLANTING



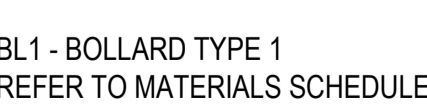
P1 - PAVING TYPE 1 - CONCRETE UNIT PAVING
REFER TO DETAIL #####-#
AND MATERIALS SCHEDULE



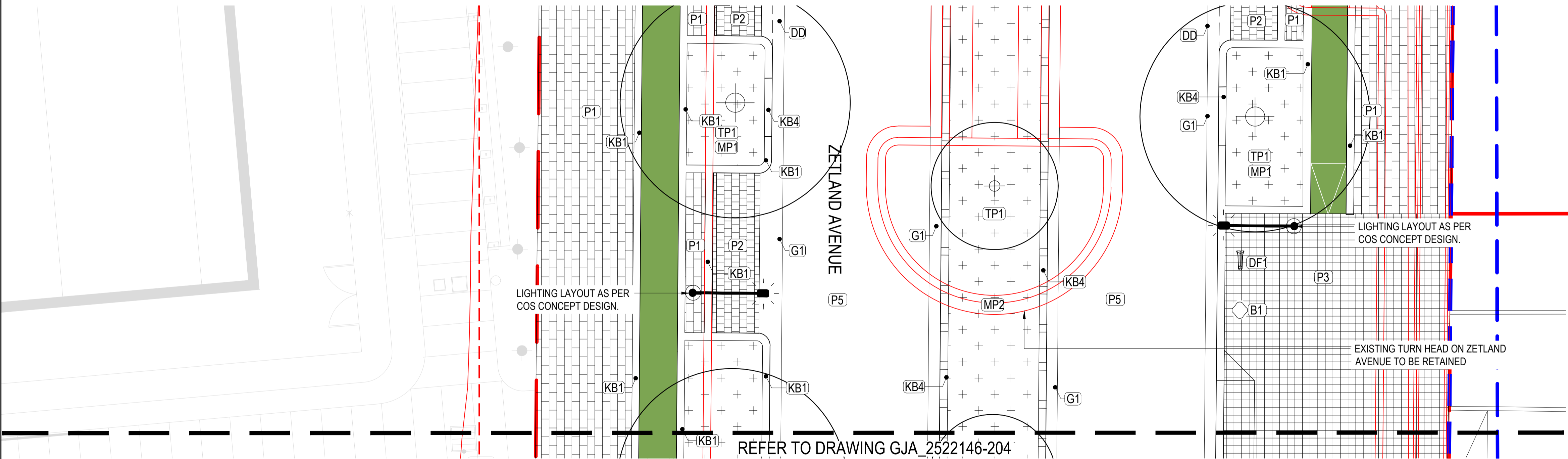
KB1 - KERB TYPE 1 - BLUE STONE KERB
REFER TO ENGINEER'S DRAWINGS



F1 - OUTDOOR BENCH TYPE 1
REFER TO MATERIALS SCHEDULE



NOTE: ZETLAND AVENUE FUTURE ROAD CONNECTION NOT PART OF CONSTRUCTION SCOPE. DOCUMENTED TO DD STAGE TO UNDERSTAND FUTURE CONNECTION.



TURNHEAD INTERIM OPTION 2

The diagram is a technical site plan for a road project, specifically 'TURNHEAD INTERIM OPTION 2'. It shows a road layout with various annotations and plant symbols.

Key Features and Annotations:

- Geographical Context:** The plan is bounded by 'GUNYAMA PARK' at the top and 'JULIUS AVENUE' on the left. A 'BOUNDARY' line is indicated at the bottom right.
- Plant Symbols:** Numerous plant symbols are scattered throughout the plan, including:
 - KB1, KB2, KB3, KB4:** Various types of trees or shrubs.
 - TP1, TP3:** Specific plant types or locations.
 - MP1, MP2, MP3:** Planting points or specific plant types.
 - P1, P2, P4, P5:** Planting points or specific plant types.
 - B1, G1:** Other plant symbols.
- Infrastructure and Layout:**
 - END OF MEDIAN:** A red dashed line indicates the end of the median.
 - RETAIN PARKING:** Two orange lines indicate areas for retaining parking.
 - TEMPORARY ASPHALT (NO PLANTING):** An orange line indicates an area for temporary asphalt where no planting is allowed.
 - TEMPORARY ASPHALT:** An orange line indicates an area for temporary asphalt.
 - REMOVE KERB:** An orange line indicates an area where the kerb is to be removed.
 - STREET TREE REMOVED:** An orange line indicates an area where a street tree is to be removed.
 - EDGE TO END OF ROAD AND VEHICLE BARRIER TBC:** An orange line indicates the edge to the end of the road and vehicle barrier, which is to be determined (TBC).
 - Option to end cycleway and use for turnhead:** An orange line indicates an option to end the cycleway and use the area for a turnhead.
- Other Details:**
 - CoS Garbage Truck 9.25m:** Two annotations indicate the location and size of a garbage truck.
 - DD:** A dashed line indicates a drainage ditch or similar feature.
 - KG:** A symbol indicating a kerb or similar feature.
 - F1:** A symbol indicating a feature or structure.

DRAWING NUMBER	REVISION
GJA_2522146-207	01

[illegible]

DRAWING NUMBER	REVISION
GJA_2522146-208	01



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PROJECT

GUNYAMA PARK STAGE 2

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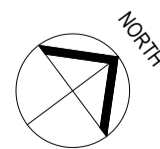
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DRAWING TITLE

PLANTING SCHEDULE

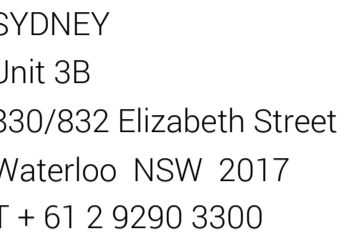
DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



NOT TO SCALE

DRAWING NUMBER	REVISION
GJA_2522146-500	01

George Julius Avenue Planting Schedule						
SYM	Botanical Name	Common name	Mature Height X Width (m)	Pot size	Spacing (m²)	Qty
George Julius Avenue						
PROPOSED STREET TREES						
La	<i>Livistona australis</i>	Cabbage Tree Palm	20 x 6	400L	As Shown	17
Lt	<i>Liriodendron tulipifera</i>	Tulip Tree	20 x 8	400L	As Shown	21
PROPOSED PLANTING MATRIX A						
PX	Philodendron 'Xanadu'	Xanadu	1 x 1	200mm	4/m2	226
LEG	Liriope 'Evergreen Giant'	Liriope	0.8 x 0.8	200mm	6/m2	345
DSS	Dianella 'Silver Streak'	Dianella	0.8 x 0.8	200mm	6/m2	345
PROPOSED PLANTING MATRIX B						
LV	Lomandra 'Verday'	Lomandra	1.2 x 1.2	200mm	5/m2	237
LLT	Lomandra 'Lime Tuff'	Lomandra	1.2 x 1.2	200mm	6/m2	285
NGS	Nandina "Gulf Stream"	Nandina	1 x 1	200mm	4/m2	190
PROPOSED PLANTING MATRIX C (Raingarden)						
Ca	Carex appressa	Tall Sedge	0.8 x 0.5	150mm	5/m2	36
CaB	Dianella caerulea 'Breeze'	Native Flax	0.7 x 0.7	150mm	5/m2	36
Fn	Ficinia nodosa	Knotted Club-Rush	1 x 1	150mm	5/m2	36
Ga	Gahnia aspera	Rough Saw-Sedge	0.8 x 0.5	150mm	5/m2	36
Ju	Juncus usitatus	Common Rush	1 x 1	150mm	5/m2	36
LIT	Lomandra longifolia 'Tanika'	Mat Rush	1 x 1	150mm	5/m2	36
Zetland Avenue						
PROPOSED STREET TREES						
Ar	<i>Agathis robusta</i>	Kauri Pine	6 x 5	400L	As Shown	7
Zs	<i>Zelkova serrata</i> 'Green Vase'	Green Vase Japanese Elm	14 x 10	400L	As Shown	12
PROPOSED PLANTING MATRIX A						
PX	Philodendron 'Xanadu'	Xanadu	1 x 1	200mm	4/m2	202
LEG	Liriope 'Evergreen Giant'	Liriope	0.8 x 0.8	200mm	6/m2	321
DSS	Dianella 'Silver Streak'	Dianella	0.8 x 0.8	200mm	6/m2	321
PROPOSED PLANTING MATRIX B						
LV	Lomandra 'Verday'	Lomandra	1.2 x 1.2	200mm	5/m2	508
LLT	Lomandra 'Lime Tuff'	Lomandra	1.2 x 1.2	200mm	6/m2	610
NGS	Nandina "Gulf Stream"	Nandina	1 x 1	200mm	4/m2	406
PROPOSED PLANTING MATRIX C (Raingarden)						
Ca	Carex appressa	Tall Sedge	0.8 x 0.5	150mm	5/m2	80
CaB	Dianella caerulea 'Breeze'	Native Flax	0.7 x 0.7	150mm	5/m2	80
Fn	Ficinia nodosa	Knotted Club-Rush	1 x 1	150mm	5/m2	80
Ga	Gahnia aspera	Rough Saw-Sedge	0.8 x 0.5	150mm	5/m2	80
Ju	Juncus usitatus	Common Rush	1 x 1	150mm	5/m2	80
LIT	Lomandra longifolia 'Tanika'	Mat Rush	1 x 1	150mm	5/m2	80



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PROJECT

GUNYAMA PARK STAGE 2

CLIENT

CITY OF SYDNEY

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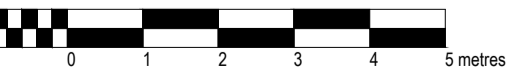
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DRAWING TITLE

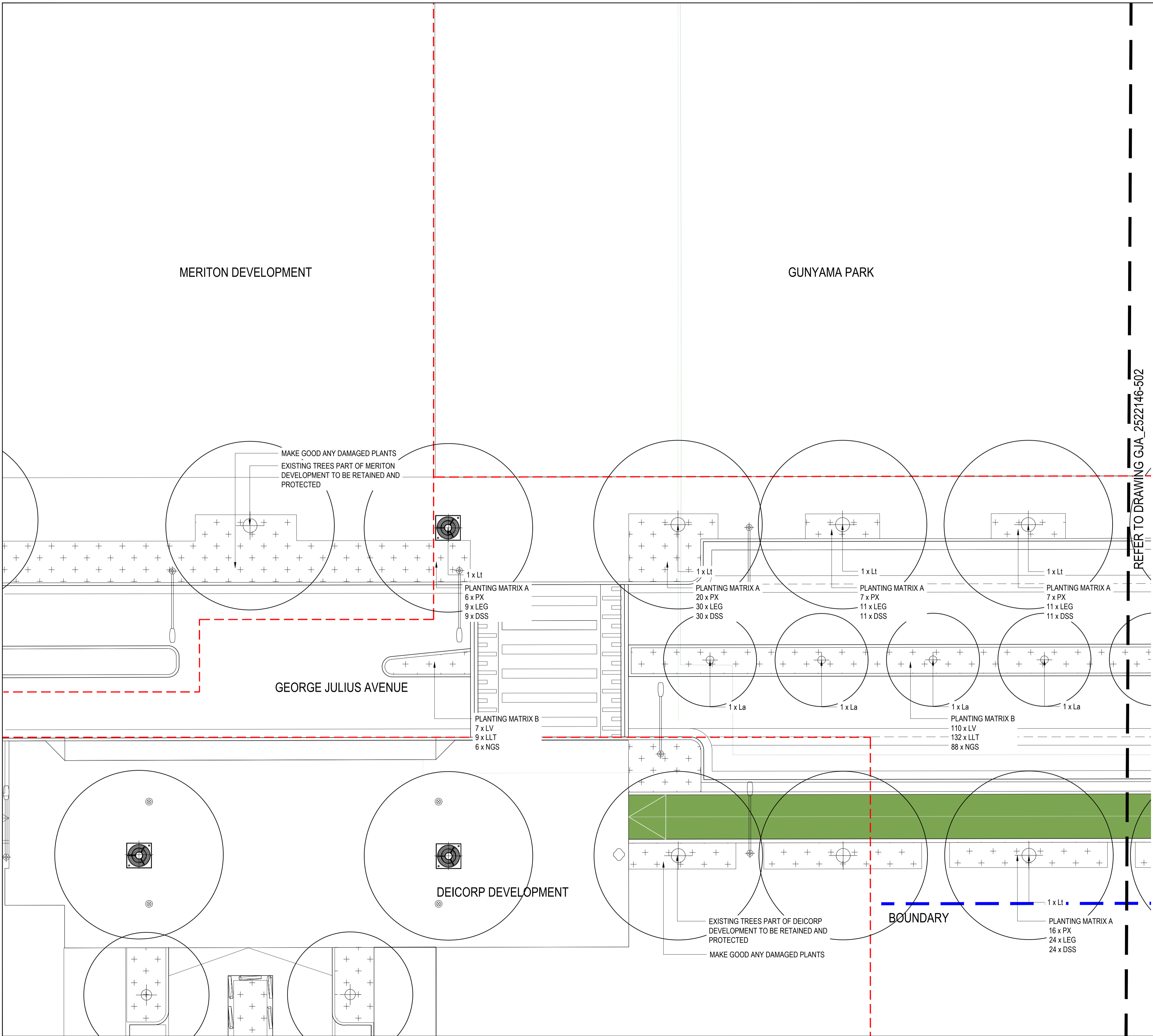
PLANTING PLAN

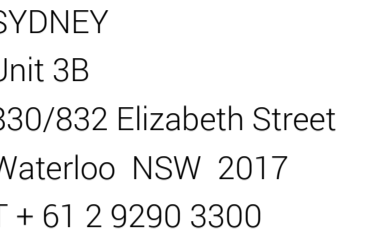
DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



SCALE 1:100 @ A1 1:200 @ A3

DRAWING NUMBER	REVISION
GJA_2522146-501	01





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PROJECT

GUNYAMA PARK STAGE 2

CLIENT

CITY OF SYDNEY

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DRAWING TITLE

PLANTING PLAN

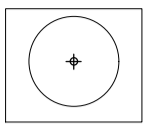
DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



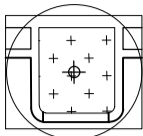
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DRAWING NUMBER	REVISION
GJA_2522146-502	01

LEGEND

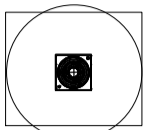
SOFTWORKS - PLANTING



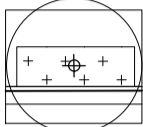
PROPOSED STREET TREE
REFER TO DETAIL #/###-#
AND PLANTING PLAN



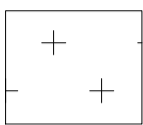
TP1 - TREE PIT BUSTER (BROKEN KERB)
REFER TO DETAIL #/###-#
,SCHEDULE AND PLANTING PLAN



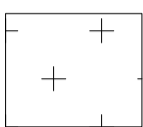
TP2 - TREE PIT IN PAVING
REFER TO DETAIL #/###-#
,SCHEDULE AND PLANTING PLAN



TP3 - TREE IN MASS PLANTING
REFER TO DETAIL #/###-#
,SCHEDULE AND PLANTING PLAN



MP1 - MASS PLANTING -VERGE
REFER TO DETAIL #/###-#
,SCHEDULE AND PLANTING PLAN



MP2 - MASS PLANTING - MEDIAN
REFER TO DETAIL #/###-#
,SCHEDULE AND PLANTING PLAN



MP3 - SWALES/ RAIN GARDEN PLANTING
REFER TO DETAIL #/###-#
,SCHEDULE AND PLANTING PLAN

MADRID/ORDIZO DAVILLO

REFER TO DRAWING GJA_2522146-501

REFER TO DRAWING GJA_2522146-503

REFER GJA_2522146-501
FOR MEDIAN PLANTING

PLANTING MATRIX B
120 x LV
144 x LLT
96 x NGS



NOTE: ZETLAND AVENUE FUTURE ROAD CONNECTION NOT PART OF CONSTRUCTION SCOPE. DOCUMENTED TO DD STAGE TO UNDERSTAND FUTURE CONNECTION.

GUNYAMA PARK STAGE 1

ZETLAND AVENUE

BOUNDARY

REFER TO DRAWING GJA_2522146-503

PLANTING MATRIX A
53 x PX
79 x LEG
79 x DSS

PLANTING MATRIX B
145 x LV
174 x LLT
116 x NGS

PLANTING MATRIX C
23 x Ca
23 x CaB
23 x Fn
23 x Ga
23 x Ju
23 x LIT

PLANTING MATRIX A
12 x PX
18 x LEG
18 x DSS

PLANTING MATRIX A
10 x PX
16 x LEG
16 x DSS

PLANTING MATRIX A
11 x PX
16 x LEG
16 x DSS

PLANTING MATRIX A
11 x PX
16 x LEG
16 x DSS

PLANTING MATRIX A
20 x PX
30 x LEG
30 x DSS

PLANTING MATRIX C
27 x Ca
27 x CaB
27 x Fn
27 x Ga
27 x Ju
27 x LIT

1 x Zs

1 x Ar

LIGHTING LAYOUT AS PER COS CONCEPT DESIGN.

EXISTING TURN HEAD ON ZETLAND AVENUE TO BE RETAINED

REFER GJA_2522146-503 FOR MEDIAN PLANTING

REFER TO DRAWING GJA_2522146-503

MP3 - SWALES/ RAIN GARDEN PLANTING
REFER TO DETAIL #####
,SCHEDULE AND PLANTING PLAN

1 0 1 2 3 4 5 metres

SCALE 1:100 @ A1 1:200 @ A3

DRAWING NUMBER	REVISION
GJA 2522146-504	01

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GUNYAMA PARK STAGE 2

CITY OF SYDNEY

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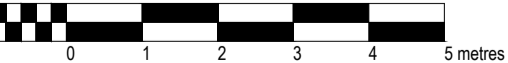
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DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

DESIGN : BP
DOCUMENT : RH
PROJECT : 252

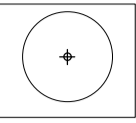


SCALE 1:100 @ A1 1:200 @ A3

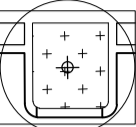
DRAWING NUMBER	REVISION
GJA_2522146-505	01

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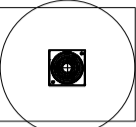
SOFTWARES - PLANTING



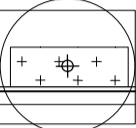
PROPOSED STREET TREE
REFER TO DETAIL #/###-#
AND PLANTING PLAN



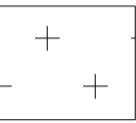
TP1 - TREE PIT BUSTER (BROKEN KERB)
REFER TO DETAIL #####
SCHEDULE AND PLANTING PLAN



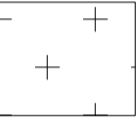
TP2 - TREE PIT IN PAVING
REFER TO DETAIL #/###-#
SCHEDULE AND PLANTING PLAN



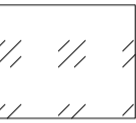
TP3 - TREE IN MASS PLANTING
REFER TO DETAIL ##/###-#
SCHEDULE AND PLANTING PLAN



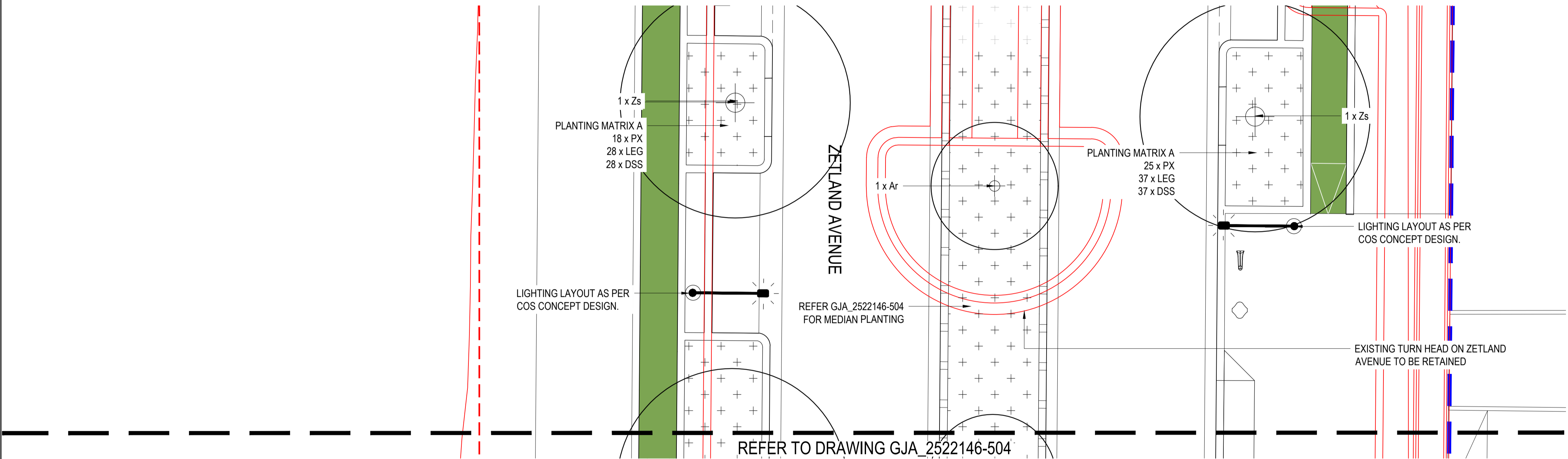
MP1 - MASS PLANTING -VERGE
REFER TO DETAIL #/###-#
SCHEDULE AND PLANTING PLAN



MP2 - MASS PLANTING - MEDIAN
REFER TO DETAIL #11111-#
SCHEDULE AND PLANTING PLAN



MP3 - SWALES/ RAIN GARDEN PLANTING
REFER TO DETAIL #####-#
SCHEDULE AND PLANTING PLAN



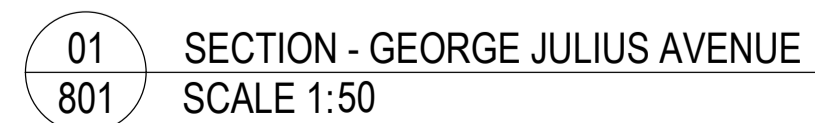
GUNYAMA PARK
STAGE 2

CITY OF SYDNEY

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SECTIONS

DRAWING NUMBER	REVISION
GJA_2522146-801	01



GUNYAMA PARK
STAGE 2

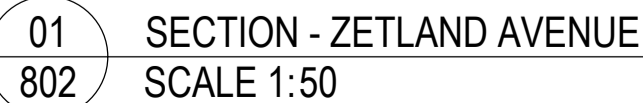
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SECTIONS

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CITY OF SYDNEY

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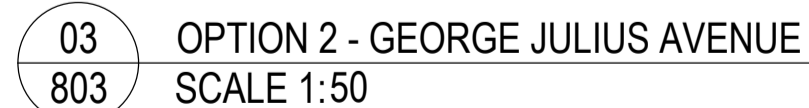
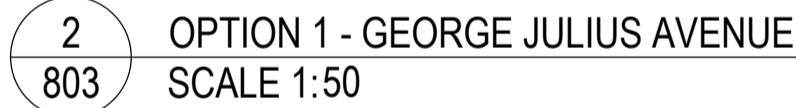
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DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

DRAWING NUMBER	REVISION
GJA_2522146-803	01





SYDNEY
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Waterloo NSW 2017
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GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

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DESIGN : BP
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PROJECT : 2522146

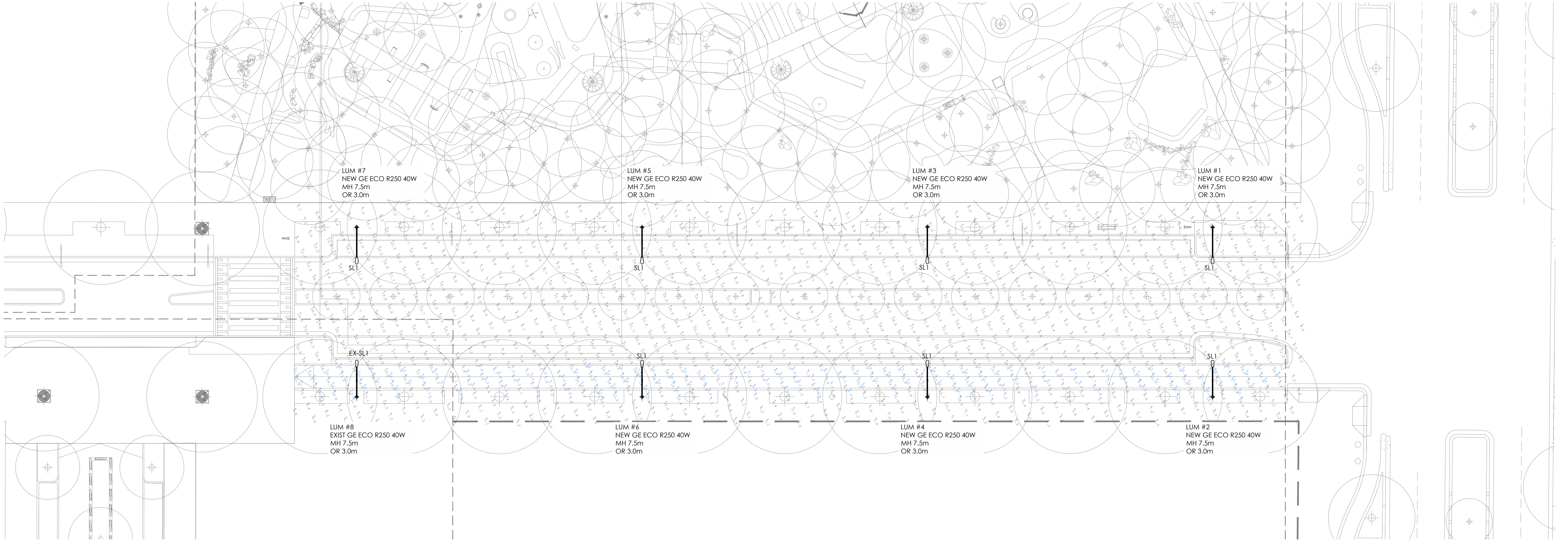


SCALE AS SHOWN @ A1

DRAWING NUMBER	REVISION
GJA_2522146-901	01

2522146_GJA_GUNYAMA PARK	
CODE	DESCRIPTION
SOFTWORKS - PLANTING	
TP1	TREE PIT BLISTER
TP2	TREE PIT IN PAVING
TP3	TREE IN MASS PLATING
MP1	MASS PLANTING - VERGE
MP2	MASS PLANTING - MEDIAN
MP3	SWALES/ RAIN GARDEN PLANTING
HARDWORKS - KERBS	
KB1	BLUE STONE KERB
KB1	BLUE STONE FLUSH KERB
KB2	CONCRETE KERB
KB3	FLUSH CONCRETE KERB (150MM)
KB4	BROKEN KERB
KG	BROKEN KERB
G1	CONCRETE GUTTER
DD	DISH DRAIN
HARDWORKS - PAVING	
P1	PAVING TYPE 1 - CONCRETE UNIT PAVING
P2	PAVING TYPE 2 - CAR PARKING BAYS HIGH ORDER
P3	PAVING TYPE 3 - SHARED ENVIRONMENT
P4	PAVING TYPE 4 - INSITU CONCRETE
P5	PAVING TYPE 5 - ASPHALT
HARDWORKS - FURNITURE	
F1	OUTDOOR BENCH TYPE 1
B1	BIN TYPE 1
BL1	BOLLARD TYPE 1
BK1	BIKERAIL TYPE 1

*DETAILS TO BE DRAFTED FOR FUTURE ISSUE



GEORGE JULIUS AVENUE BETWEEN ZETLAND AV & MERITON/DEICORP DEVELOPMENTS Roadway, Cycleway & Pedestrian Crossing Lighting Compliance Assessment

Scope
The scope of the works is to assess the proposed street lighting on George Julius Avenue (Between Zetland Avenue & the Meriton and Deicorp Developments) to comply with:
- PR1 category of AS/NZS 1158.3.1:2020 for roadway.
- PP2 category of AS/NZS 1158.3.1:2020 for cyclist paths.
- PP2 + 0.6 lux minimum vertical illuminance CoS requirement for cyclist paths.
- PX3 category of AS/NZS 1158.4:2015 for pedestrian crossing.

Category		PR1	PP2+ CoS Cycleway
Average Horizontal Illuminance (lux)		>7.0	>7.0
Minimum Horizontal Illuminance (lux)		>2.0	>1.0
Horizontal Illuminance Uniformity (max/avg)		<5	<5
Minimum Vertical Illuminance AS/NZS 1158.3.1 (lux)		N/A	>0.3
Minimum Vertical Illuminance CoS		N/A	>0.6
Minimum vertical illuminance (lux)			>1.6
Glare control at 90° (ca)			<170
Glare control at 70° (ca)			<1000
Upward waste light ratio			<0%
Additional category V lighting scores			N/A

Luminaire Schedule				
Scene: ILLUMINANCE ROAD & CYCLEWAY				
Symbol	Qty	Description	Lumens/Luminaire	UF
1	1	EXIST GE CoS ECO LED R250 40W	N/A	1.000
7	7	NEW GE CoS ECO LED R250 40W	N/A	1.000

Scene/Channel Summary			
Scene: ILLUMINANCE ROAD & CYCLEWAY			
Channel	Switched	Dimming	# Lume
STREET LIGHTS	On	0.80	8

Calculation Summary - College St Cycleway							
Scene: ILLUMINANCE ROAD & CYCLEWAY							
Label	Category	Unit	Avg	Max	Min	Max/Avg	Result
BT CYCLEWAY	Illuminance	Lux	11.06	18.8	5.3	1.70	1.5
EV CYCLEWAY NORTH	Illuminance	Lux	N/A	14.4	0.6	N/A	1.5
EV CYCLEWAY SOUTH	Illuminance	Lux	N/A	12.7	0.6	N/A	1.5
PR1	Illuminance	Lux	11.19	22.5	5.0	2.01	1.5

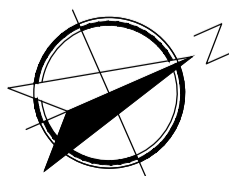
Expected Illuminance Location Summary						
Scene: ILLUMINANCE ROAD & CYCLEWAY						
Luminaire Label	Illuminance Coordinates			Offset	TH	Outreach Arm
1	NEW GE CoS ECO LED R250 40W	334484.0	6246460.0	7.5	336.3	5
2	NEW GE CoS ECO LED R250 40W	334494.8	6246455.3	7.5	156.3	5
3	NEW GE CoS ECO LED R250 40W	334471.9	6246432.6	7.5	336.3	5
4	NEW GE CoS ECO LED R250 40W	334482.7	6246427.8	7.5	156.3	5
5	NEW GE CoS ECO LED R250 40W	334459.8	6246405.1	7.5	336.3	5
6	NEW GE CoS ECO LED R250 40W	334470.6	6246400.3	7.5	156.3	5
7	NEW GE CoS ECO LED R250 40W	334447.7	6246377.6	7.5	336.3	5
8	EXIST GE CoS ECO LED R250 40W	334458.6	6246372.8	7.5	156.3	5

Certification
The proposed street lighting on George Julius Avenue (Between Zetland Avenue & the Meriton and Deicorp Developments) will comply with:
- PR1 category of AS/NZS 1158.3.1:2020 for roadway.
- PP2 category of AS/NZS 1158.3.1:2020 for cyclist paths.
- PP2 + 0.6 lux minimum vertical illuminance CoS requirement for cyclist paths.
- PX3 category of AS/NZS 1158.4:2015 for pedestrian crossing.

Marie Albuquerque

Marie Albuquerque MIES (Aus + NZ) MIES5490

Issue Amendment Date
P1 PRELIMINARY ISSUE 08-06-23



0 2 4 6 8 10 20m 1:200@A1

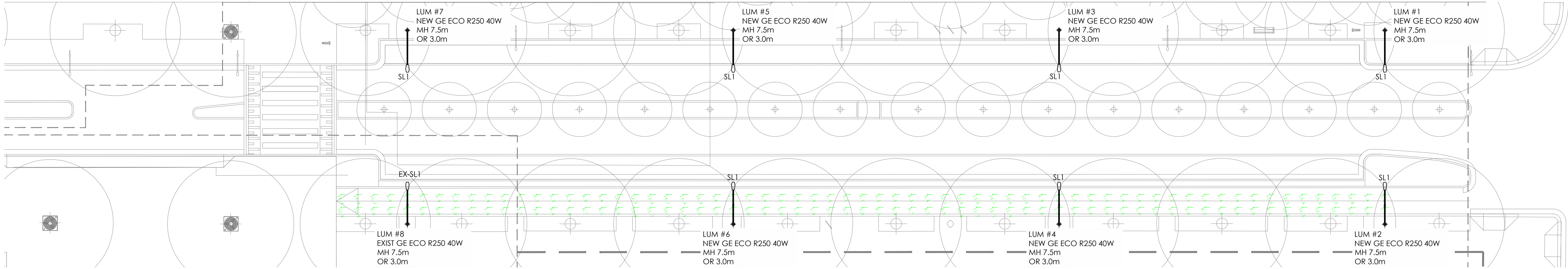
Symbol	Description
+	Horizontal Illuminance Markpoint - Local Road
+	Horizontal Illuminance Markpoint - Cycleway

ZOOM INTO DIGITAL PDF TO READ ILLUMINANCE VALUES

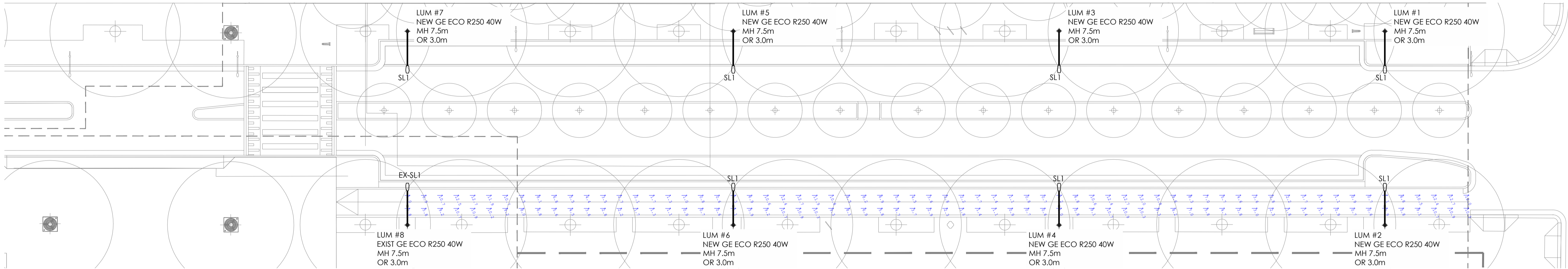
Lead Consultant
PLACE DESIGN GROUP
Client
CITY OF SYDNEY

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Project GUNYAMA PARK STAGE 2
STREET LIGHTING DESIGN COMPLIANCE
Drawing LIGHTING CALCULATION RESULTS - HORIZONTAL
ILLUMINANCE - LOCAL ROAD & CYCLEWAY
Drawn MA Approved RM Date JUN 2023 Scale 1:200@A1
Project No Drawing No Rev
L177D CL-101 P1



01 CYCLEWAY VERTICAL ILLUMINANCE - NORTH
SCALE 1:200@A1



02 CYCLEWAY VERTICAL ILLUMINANCE - SOUTH
SCALE 1:200@A1

GEORGE JULIUS AVENUE BETWEEN ZETLAND AV & MERITON/DEICORP DEVELOPMENTS Roadway, Cycleway & Pedestrian Crossing Lighting Compliance Assessment

Scope
The scope of the works is to assess the proposed streetlighting on George Julius Avenue (Between Zetland Avenue & the Meriton and Deicorp Developments) to comply with:
- PR1 category of AS/NZS 1158.3.1:2020 for roadway.
- PP2 category of AS/NZS 1158.3.1:2020 for cyclist paths.
- PP2 + 0.6 lux minimum vertical illuminance CoS requirement for cyclist paths.
- PP3 category of AS/NZS 1158.4:2015 for pedestrian crossing.

Category		PR1	PP2+ CoS Cycleway
Average Horizontal Illuminance (lux)		>7.0	>7.0
Minimum Horizontal Illuminance (lux)		>2.0	>1.0
Horizontal Illuminance Uniformity (max/avg)		<5	<5
Minimum Vertical Illuminance AS/NZS 1158.3.1 (lux)		N/A	>0.3
Minimum Vertical Illuminance CoS (lux)		N/A	>0.6

Minimum vertical illuminance (lux) >1.6
Glare control at 90° (ca) <170
Glare control at 70° (ca) <1000
Upward waste light ratio <2%
Additional category V lighting scores Nil

Luminaire Schedule				
Scene: ILLUMINANCE ROAD & CYCLEWAY				
Symbol	Qty	Desc	Luminaire/Luminaire	UF
1	1	EXIST GE CoS ECO LED R250 40W	N/A	1.000
7	7	NEW GE CoS ECO LED R250 40W	N/A	1.000

Scene/Channel Summary			
Scene: ILLUMINANCE ROAD & CYCLEWAY			
Channel	Switched	Dimming	# Lume
STREET LIGHTS	On	0.80	8

Calculation Summary - College St Cycleway							
Scene: ILLUMINANCE ROAD & CYCLEWAY							
Label	Category	Unit	Avg	Max	Min	Max/Avg	PP2/PR1
BT CYCLEWAY	Illuminance	Lux	11.06	18.8	5.3	1.70	1.5
EV CYCLEWAY NORTH	Illuminance	Lux	N/A	14.4	0.6	N/A	1.5
EV CYCLEWAY SOUTH	Illuminance	Lux	N/A	12.7	0.6	N/A	1.5
PR1	Illuminance	Lux	11.19	22.5	5.0	2.01	1.5

Expanded Luminaire Location Summary							
Scene: ILLUMINANCE ROAD & CYCLEWAY							
Luminaire Label	Luminaire Coordinates			Offset	TM	Outreach Arm	
	X	Y	Z				
1	NFW GE CoS ECO LED R250 40W	334484.0	6246460.0	7.5	336.3	5	3.0m
2	NFW GE CoS ECO LED R250 40W	334494.8	6246455.3	7.5	156.3	5	3.0m
3	NFW GE CoS ECO LED R250 40W	334471.9	6246432.6	7.5	336.3	5	3.0m
4	NFW GE CoS ECO LED R250 40W	334482.7	6246427.8	7.5	156.3	5	3.0m
5	NEW GE CoS ECO LED R250 40W	334459.8	6246405.1	7.5	336.3	5	3.0m
6	NEW GE CoS ECO LED R250 40W	334470.6	6246400.3	7.5	156.3	5	3.0m
7	NEW GE CoS ECO LED R250 40W	334447.7	6246377.6	7.5	336.3	5	3.0m
8	EXIST GE CoS ECO LED R250 40W	334458.6	6246372.8	7.5	156.3	5	3.0m

Certification
The proposed streetlighting on George Julius Avenue (Between Zetland Avenue & the Meriton and Deicorp Developments) will comply with:
- PR1 category of AS/NZS 1158.3.1:2020 for roadway.
- PP2 category of AS/NZS 1158.3.1:2020 for cyclist paths.
- PP2 + 0.6 lux minimum vertical illuminance CoS requirement for cyclist paths.
- PP3 category of AS/NZS 1158.4:2015 for pedestrian crossing.

Marie Albuquerque

Marie Albuquerque MIES (Aust + NZ) MIES5490

Symbol	Description
→	Vertical Illuminance Markpoint - Direction NORTH
←	Vertical Illuminance Markpoint - Direction SOUTH

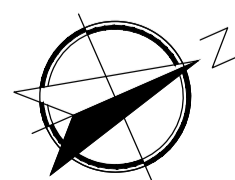
ZOOM INTO DIGITAL PDF TO READ ILLUMINANCE VALUES

Lead Consultant
PLACE DESIGN GROUP
Client
CITY OF SYDNEY

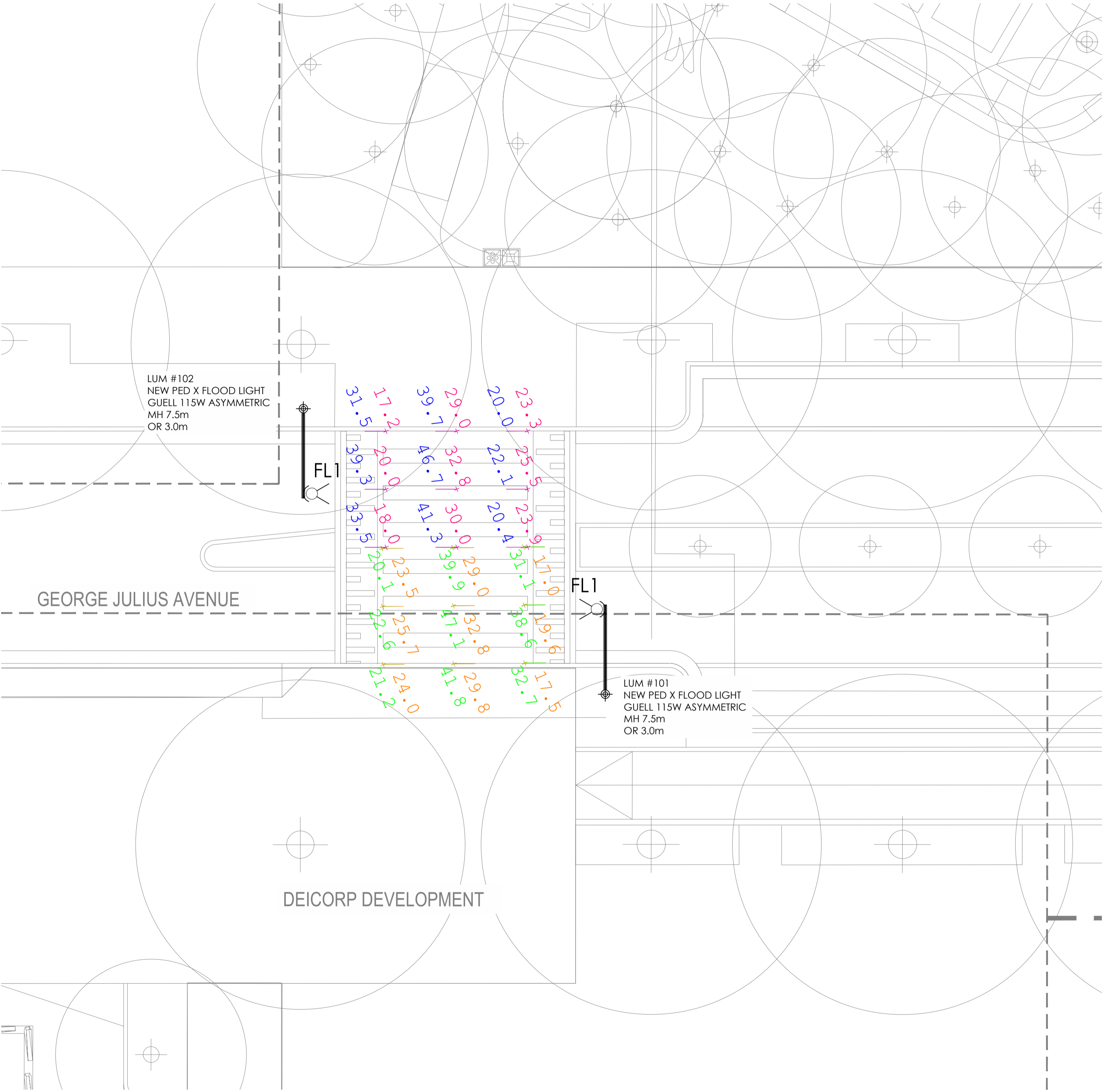
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Project GUNYAMA PARK STAGE 2
STREET LIGHTING DESIGN COMPLIANCE
Drawing LIGHTING CALCULATION RESULTS
VERTICAL ILLUMINANCE - CYCLEWAY
Drawn MA Approv. RM Date JUN 2023 Scale 1:200@A1
Project No Drawing No Rev
L177D CL-102 P1

Issue Amendment Date
P1 PRELIMINARY ISSUE 08-06-23



0 2 4 6 8 10 20m 1:200@A1



GEORGE JULIUS AVENUE BETWEEN ZETLAND AV & MERITON/DEICORP DEVELOPMENTS Roadway, Cycleway & Pedestrian Crossing Lighting Compliance Assessment

Scope
The scope of the work is to assess the proposed street lighting on George Julius Avenue (Between Zetland Avenue & the Meriton and Deicorp Developments) to comply with:
- PR1 category of AS/NZS 1158.3.1:2020 for roadway.
- PP2 category of AS/NZS 1158.3.1:2020 for cyclist paths.
- PP2 + 0.6 lux minimum vertical illuminance CoS requirement for cyclist paths.
- PX3 category of AS/NZS 1158.4:2015 for pedestrian crossing.

Category		PX1	PP2+ CoS Cycleway
Average Horizontal Illuminance	(lux)	>7.0	>7.0
Minimum Horizontal Illuminance	(lux)	>2.0	>1.0
Horizontal Illuminance Uniformity	(max/avg)	<8	<5
Minimum Vertical Illuminance AS/NZS 1158.3.1	(lux)	N/A	>0.3
Minimum Vertical Illuminance CoS	(lux)	N/A	>0.6
Minimum vertical illuminance	(lux)		>7.0
Glare control at 90°	(cc)		>1.0
Glare control at 70°	(cc)		<5
Upward waste light ratio	-		>0.3
Additional category V lighting spans	-		>0.6

Luminaire Schedule					
Scene: ILLUMINANCE PED X					
Symbol	Qty	Label	lumens/lamp	LP	Plumets
	2	PEDX Guel2 115W LED 4000K ASYMM	8933.71	1.000	173105-Guel2-114W-LED-4000K-Asymm-WB.lss

Scene/Channel Summary			
Scene: ILLUMINANCE PED X			
Channel	Switched	Dimming	# Lamps
PED X LIGHTS	On	0.80	2

Calculation Summary				
Project: PX3 CALCS GROUND				
Scene: ILLUMINANCE PED X				
Label	Category	Units	Min	Legend
PX3 NORTH GROUND	Illuminance	Lux	17.0	→
PX3 SOUTH GROUND	Illuminance	Lux	17.2	→

Calculation Summary - College St Cycleway				
Project: PX3 CALCS 1500mm				
Scene: ILLUMINANCE PED X				
Label	Category	Units	Min	Legend
PX3 NORTH 1500mm	Illuminance	Lux	20.1	→
PX3 SOUTH 1500mm	Illuminance	Lux	20.0	→

Expanded Luminaire Location Summary							
Scene: ILLUMINANCE PED X							
Lum.No.	Label	Luminaire Coordinates			Orient	TI	Glare Calc Arm
		X	Y	X			
101	PEDX Guel2 115W LED 4000K ASYMM	334451.5	6246369.9	7.5	66	0	3.0m
102	PEDX Guel2 115W LED 4000K ASYMM	334443.7	6246361.8	7.5	274	0	3.0m

Certification
The proposed street lighting on George Julius Avenue (Between Zetland Avenue & the Meriton and Deicorp Developments) will comply with:
- PR1 category of AS/NZS 1158.3.1:2020 for roadway.
- PP2 category of AS/NZS 1158.3.1:2020 for cyclist paths.
- PP2 + 0.6 lux minimum vertical illuminance CoS requirement for cyclist paths.
- PX3 category of AS/NZS 1158.4:2015 for pedestrian crossing.

Maria Albuquerque MILS (Aus: + Nm) MILS5490

Obtrusive Light - Compliance Report

Glare Control at 70deg
Filename: L177D-CL01-PEDX & ROAD
5/08/2023 4:38:17 PM

Luminous Intensity (Cd) Per Luminaire
Maximum Allowable Value: 4000 Cd
Control Angle: 70 Degrees

Luminaire Locations Tested (2)
Test Results: **PASS**

All Luminaire Locations (2):

Lum.No.	Label	Cd	TI	Roll	Spin
101	PEDX Guel2 115W LED 4000K ASYMM	804	0	0	180
102	PEDX Guel2 115W LED 4000K ASYMM	804	0	0	180

Upward Waste Light Ratio (UWLIR)
Maximum Allowable Value: 2.0 %

Calculated UWLIR: 0.0 %
Test Results: **PASS**

Obtrusive Light - Compliance Report

Glare Control at 80deg
Filename: L1773-CL04-PEDX & ROAD
5/08/2023 4:38:12 PM

Luminous Intensity (Cd) Per Luminaire
Maximum Allowable Value: 170 Cd
Control Angle: 80 Degrees

Luminaire Locations Tested (2)
Test Results: **PASS**

All Luminaire Locations (2):

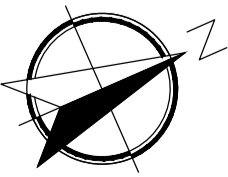
Lum.No.	Label	Cd	TI	Roll	Spin
101	PEDX Guel2 115W LED 4000K ASYMM	0	0	0	180
102	PEDX Guel2 115W LED 4000K ASYMM	0	0	0	180

Upward Waste Light Ratio (UWLIR)
Maximum Allowable Value: 2.0 %

Calculated UWLIR: 0.0 %
Test Results: **PASS**

Issue: Amendment
P1: PRELIMINARY ISSUE

Date: 08-06-23



0 1 2 3 4 5 10m 1:100@A1

ZOOM INTO DIGITAL PDF TO READ ILLUMINANCE VALUES

Lead Consultant: PLACE DESIGN GROUP
Client: CITY OF SYDNEY

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Project: GUNYAMA PARK STAGE 2
STREET LIGHTING DESIGN COMPLIANCE

Drawing: LIGHTING CALCULATION RESULTS
PEDESTRIAN CROSSING

Drawn MA: JUN 2023
Project No: L177D
Drawing No: CL-103
Scale: 1:100@A1
Rev: P1



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Client:	Place Design Group.		
Site:	Gunyama Park, Sydney.		
Project:	Gunyama Park Upgrade - Stage 2.		
Drawing Title:	Irrigation Detailed Design First Draft.		
Design:	Date:	Scale:	Sheet:
Rex Sullings	16 Jul 2023.	1:200 @ A1.	1 of 2.
			Issue:
			50% - ISSUE.



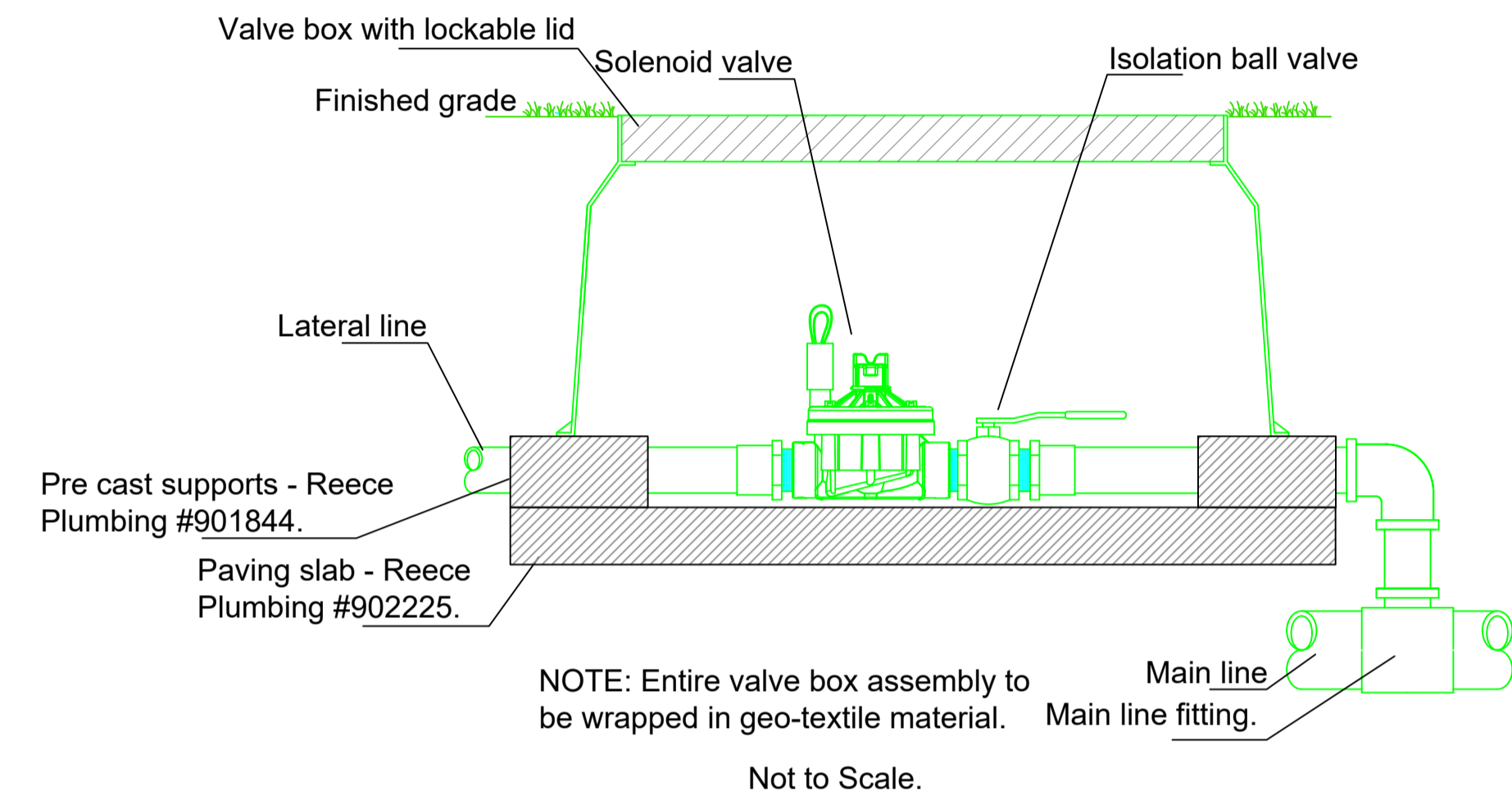
PO Box 51, TOUKLEY NSW 2263.
Contact: Rex Sullings
Mobile: 0412 434294.
E-Mail: rexsullings@bigpond.com



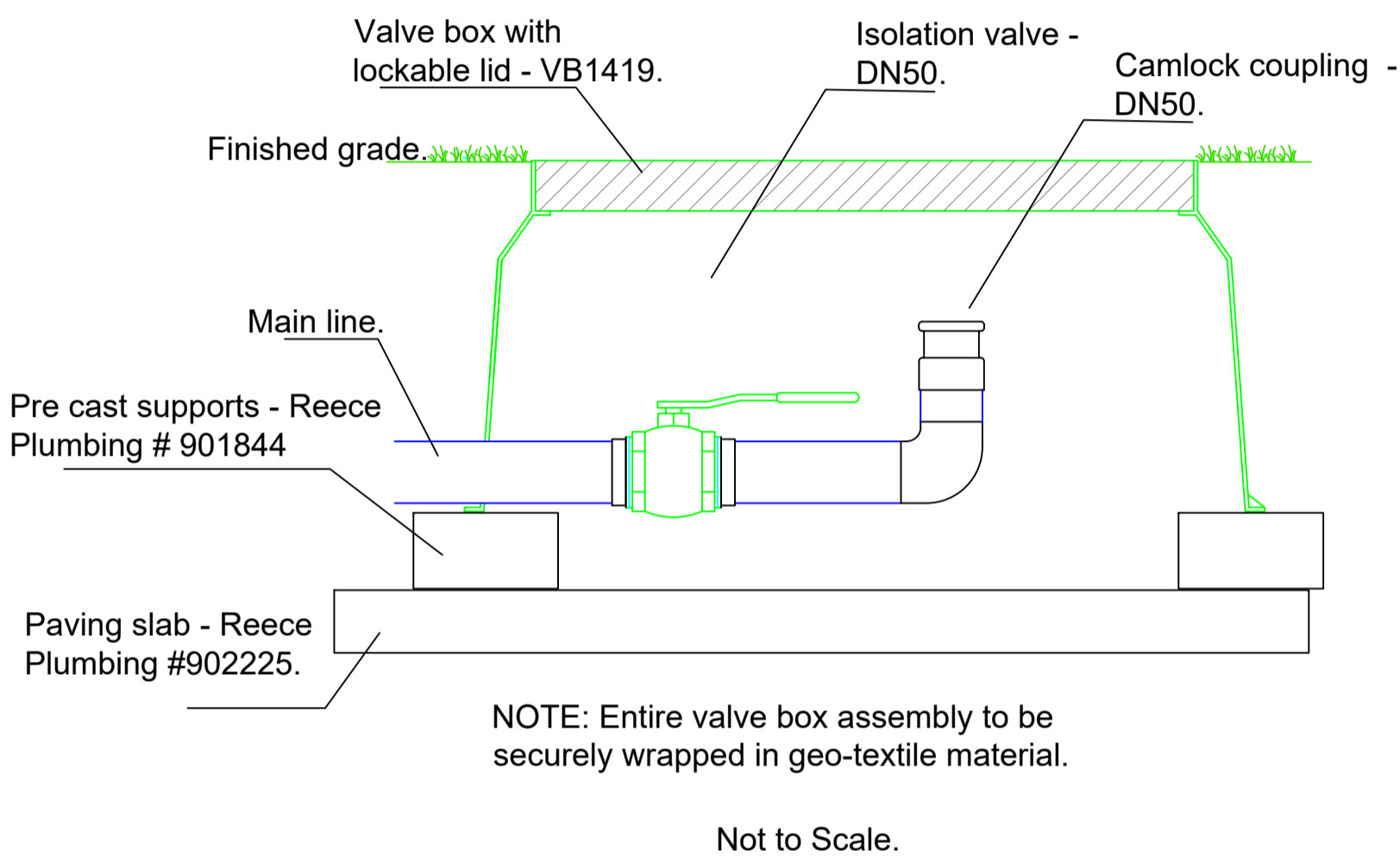
Design & Drawing:
Rex Sullings
Dip Irrig. CID, CLIA.
MEMBER

Irrigation Detailed Drawings.

Solenoid Valve Assembly



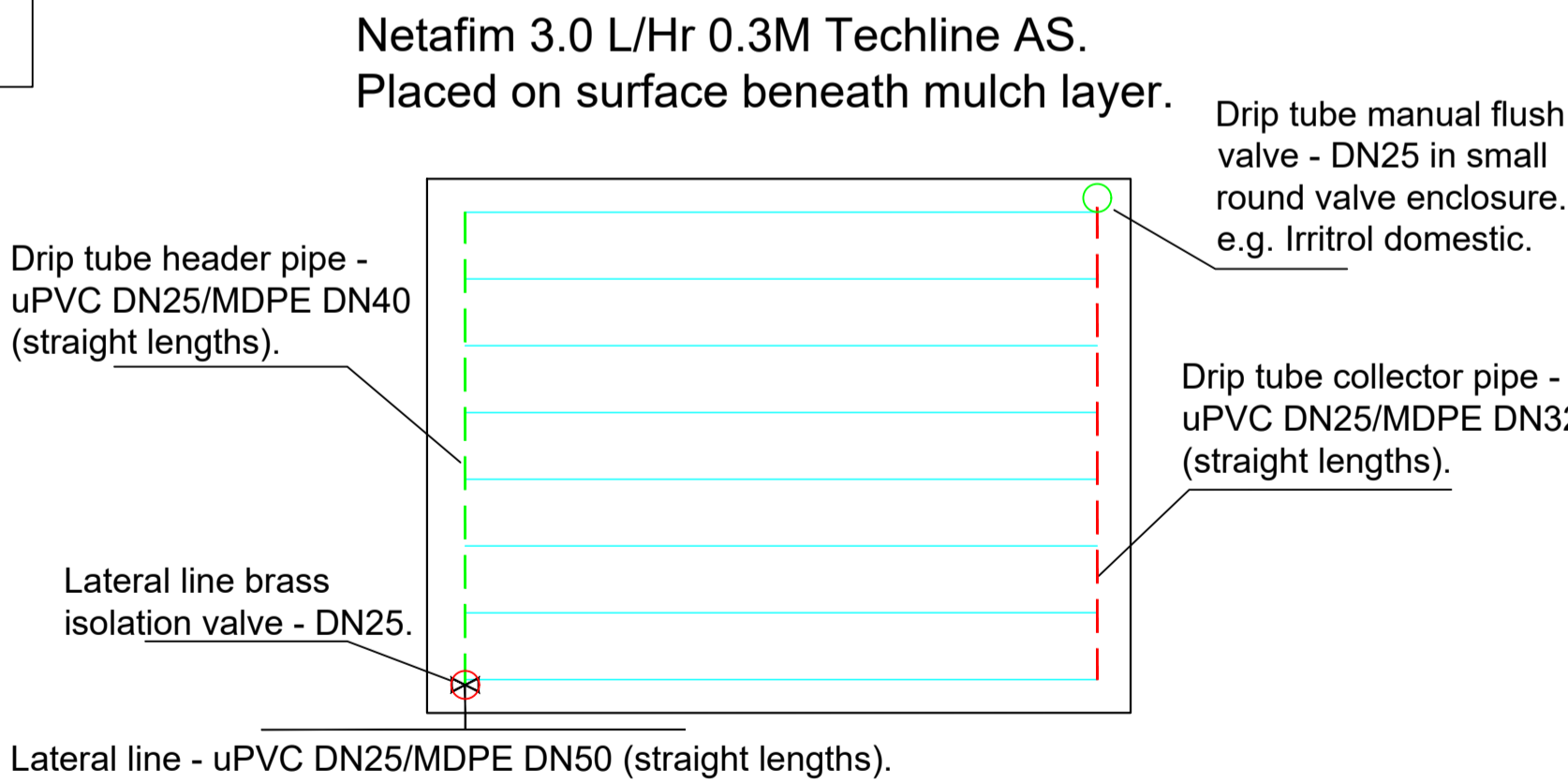
Main Line Flush Valve Assembly



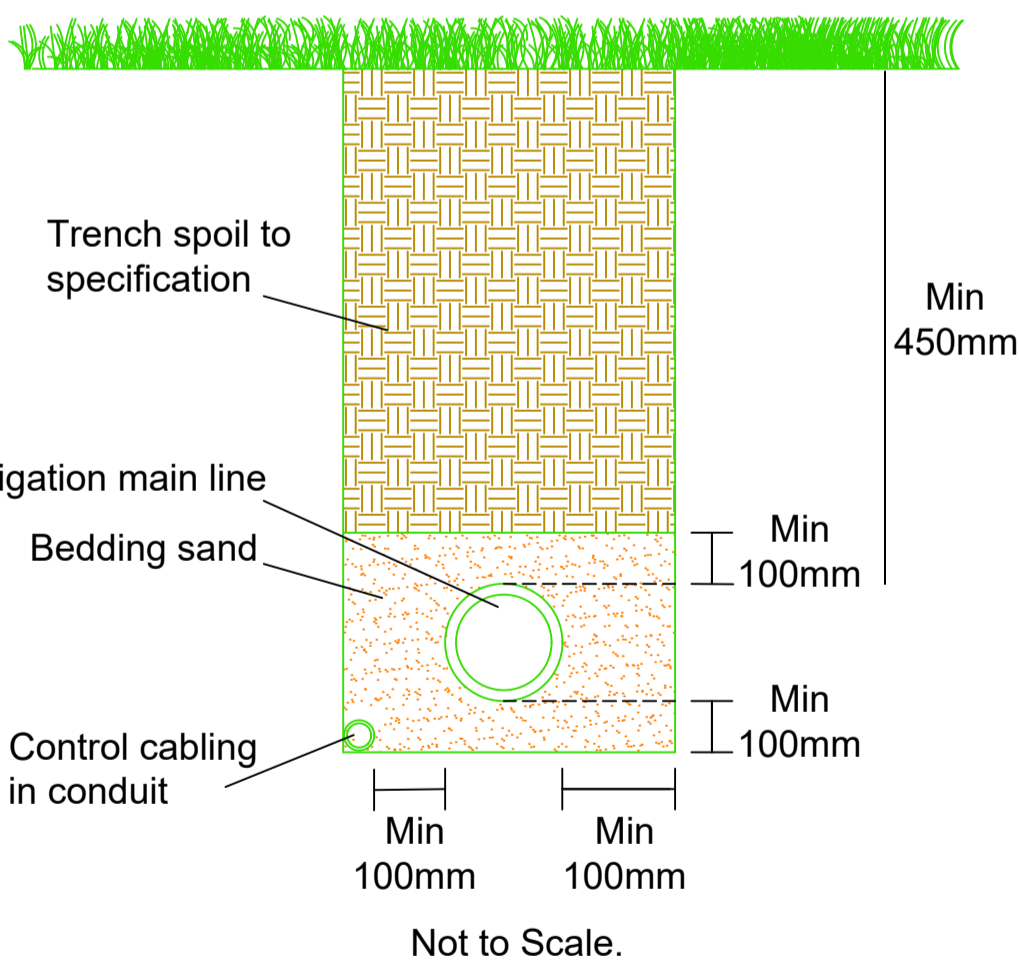
IRRIGATION LEGEND.

- Main line - MDPE PE100 PN10 (Min) - DN63, unless otherwise noted.
- Lateral line - MDPE PE100 PN10 (Min) - DN50 unless otherwise noted.
- RPZ Back Flow Prevention Valve to AS3500.1.
- Irrigation Controller (Approx position), as per suppliers specification.
- Hunter ICV Series solenoid control valve - as per valve schedule.
- Main line flush valve.
- Main line isolation valve.
- Lateral line isolation valve 25mm.
- Manual drip line flush valve.
- Drip Tube Irrigated area.
- Irrigation control cable/junction box.
- Conduit - Minimum DN90 DWV pipe.
- Irrigation zone valve no.
- Zone valve number.

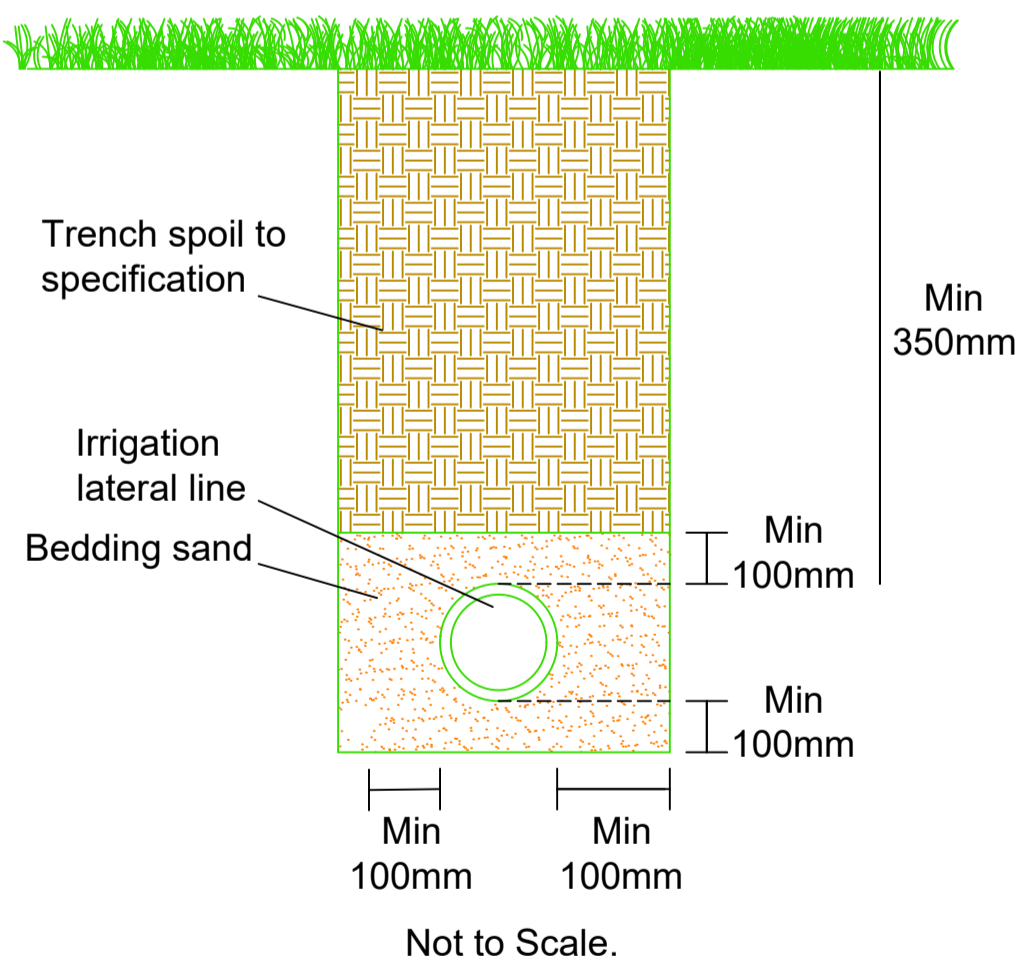
Typical Drip Tube Layout (not to scale).



Irrigation Main Line Trenching detail - cross section.



Irrigation Lateral Line Trenching detail - cross section.



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Client:	Place Design Group.
Site:	Gunyama Park, Sydney.
Project:	Gunyama Park Upgrade - Stage 2.
Drawing Title:	Irrigation Detailed Drawings First Draft.
Design:	Rex Sullings
Date:	16 Jul 2023.
Scale:	1:200 @ A1.
Sheet:	2 of 2.
Issue:	50%.

AQUEDUCT CONSULTANCY
Irrigation Design and Water Harvesting

PO Box 51 TOUKLEY NSW 2263.
Contact: Rex Sullings
Mobile: 0412 434294.
E-Mail: rexsullings@bigpond.com

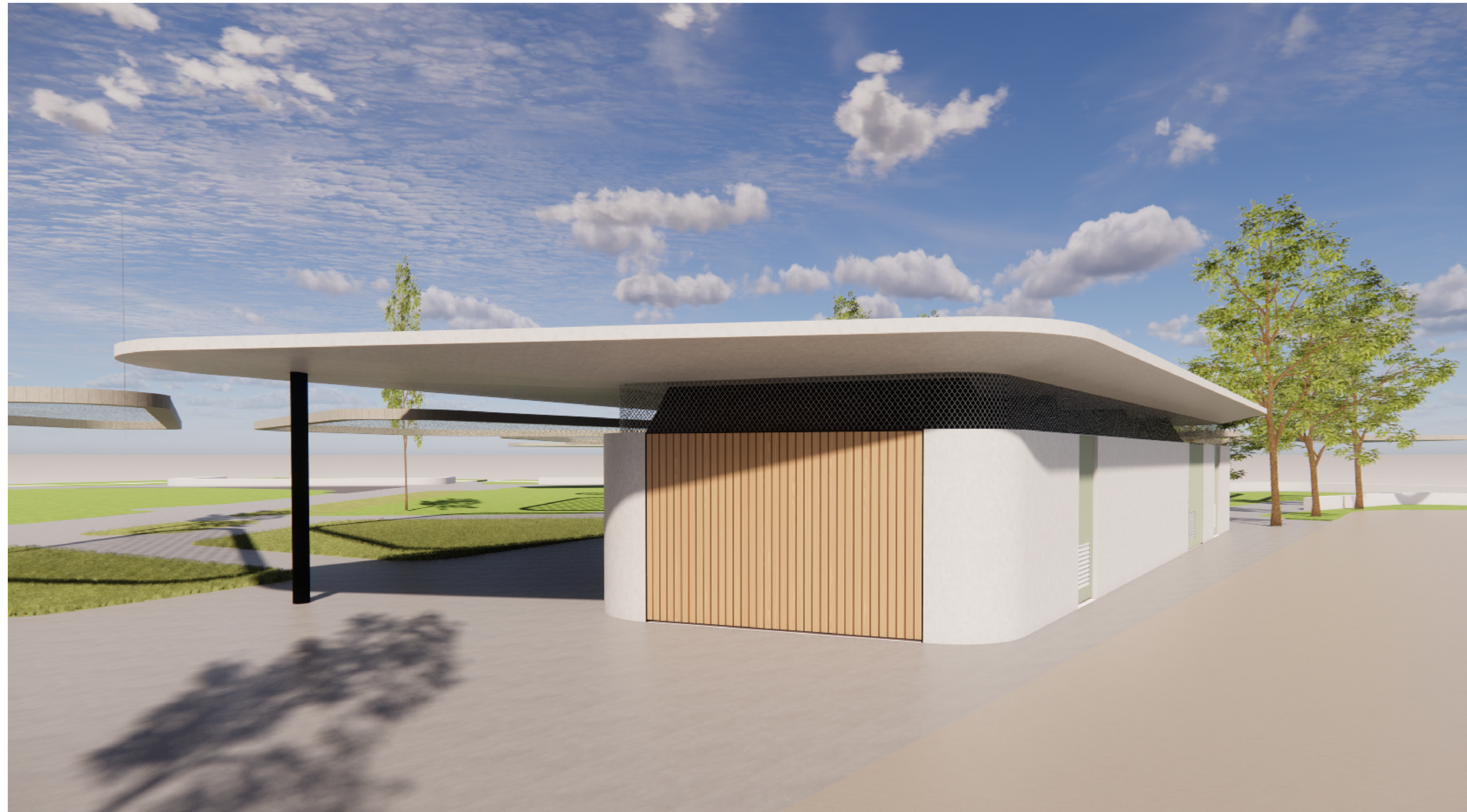
Design & Drawing:
Rex Sullings
Dip Irrig. CID, CLIA.

IRRIGATION AUSTRALIA MEMBER

GUNYAMA PARK

FOR PLACE DESIGN GROUP

7106GP01



Drawing No.	Drawing Name	Rev
ACD-101	PROPOSED SITE PLAN	01
ACD-200	FLOOR PLAN	01
ACD-203	CEILING PLAN	01
ACD-204	ROOF PLAN	01
ACD-301	ELEVATION	01
ACD-302	SECTION	01
ACD-501	ROOM LAYOUT 1	01
ACD-502	ROOM LAYOUT 2	01
ACD-601	DOOR SCHEDULE	01

DRAWING & SPECIFICATION MATERIAL CODE LEGEND

The Codes below represent the Specification Trade Section where detailed selection information is to be obtained for elements nominated in the drawings. The codes below will be followed by a two / three numeric trade selection reference for each different selection type.

TRADE SECTION	CODE
GENERAL	
Fire Stopping	FS
Termite Management	TM
Access Safety Systems	AS
SITE	
Landscape	LD
STRUCTURE	
Concrete	CN
Brick & Block Construction	MA
Structural Steel	SS
Light Steel Framing	SF
Timber Framing	TF
Decking & Flooring	FD
ENCLOSURE	
Waterproofing External	WE
Metal Roofing & Cladding	MR
Roof Tiling	RT
Cladding	CL
Glazing	GL
Doors, Windows & Hardware	DW
Insulation & Sarking Membranes	IS
INTERIOR	
Linings & Ceilings	LC
Joinery	JY
Metalwork	MW
Signs and display	SD
Miscellaneous Fitures	FX
Equipment & Appliances	EQ
Furnishings & Furniture	FF
Hydraulic Fixtures	HY
FINISH	
Rendering & Plastering	RP
Cementitious Toppings	CT
Waterproofing - Wet Areas	WI
Tiling	TG
Resilient finishes	RF
Carpets	CM
Painting	PG
Wall Coverings	WS

DRAWING & SPECIFICATION FINISHES / COLOUR CODES

The Codes below represent the Finish / Colour Type for the Specified Material Selections nominated in the drawings. The codes below will be followed by a two digit numeric reference for each different finish.

Acoustic Fabric Colour	AF
Brick Colour	BK
Block Colour	BL
Block Render	RP
Colorbond	CB
Concrete Finish	CC
Carpet Colour	CP
Epoxy	EP
Fabric	FB
Timber Flooring and Decking	FD
Laminate	LAM
Landscape	LD
Metal Finishes	MF
Polycarbonate	PC
Paint Finish	PF
Stone Flooring	SF
Stone Joinery Element	ST
Timber Finishes	TB
Tiles - Wall / Floor	TL
Tiles - Roof	TR
Vinyl	VN
Wall Paper	WP
Wall Coverings / Wall Paper	WS

SITE PLAN LEGEND



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Katerina Dracopoulos raia			QLD 4529
Mark Trotter raia	VIC 17691	NSW 4421	QLD 1870
Paul Sekava raia		NSW 7180	QLD 3108
Paul Trotter raia		NSW 7177	QLD 2646
Ryan Loveday raia			QLD 4500

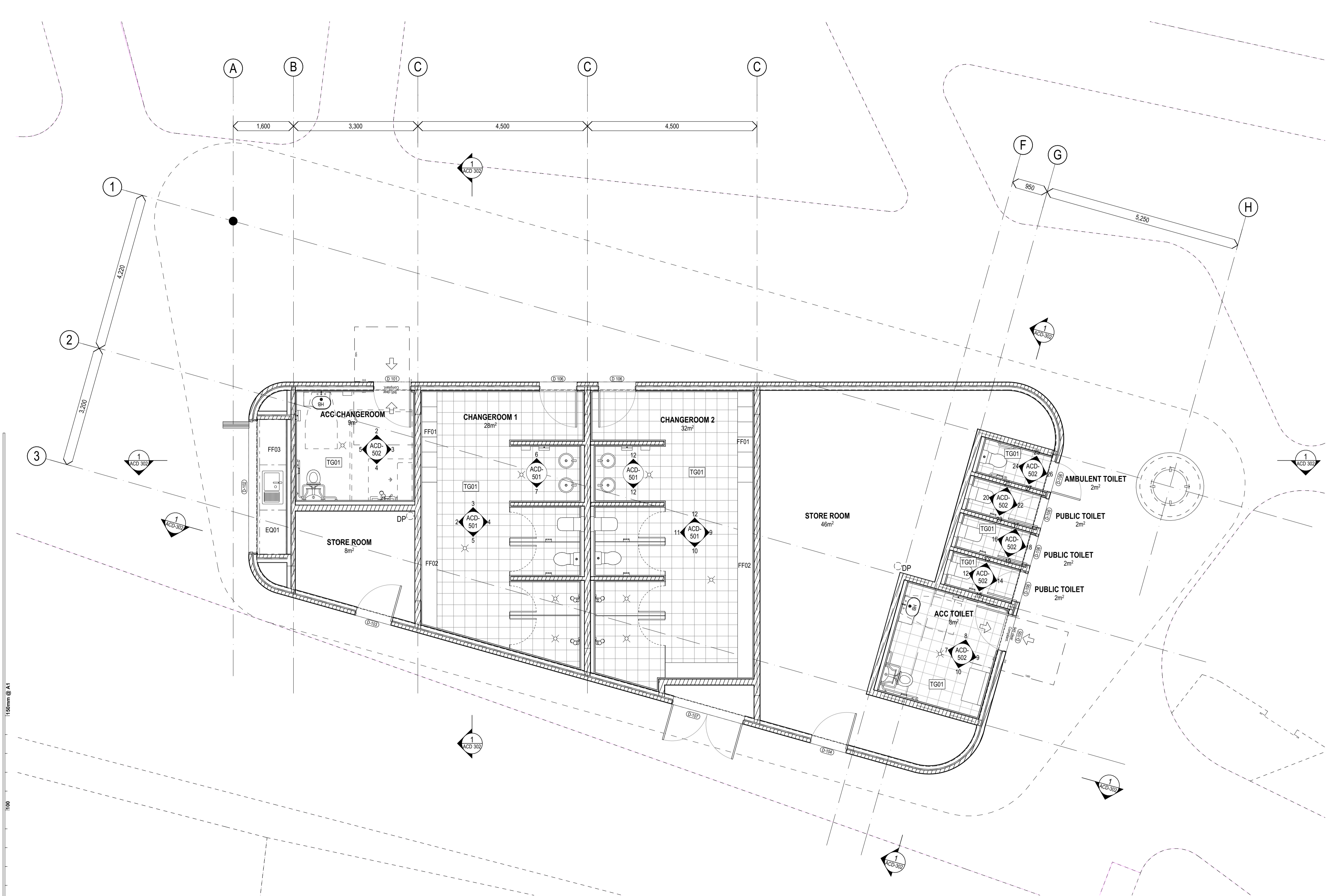
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17 Zetland Ave, Zetland NSW
SYDNEY, NSW

Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

PROJECT NUMBER	DIRECTOR	CHECKED
7106GP01	JW	

ACD-101 01



LEGEND	
	DOOR LABEL
	EXTERNAL WALL TYPE LABEL
	INTERNAL WALL TYPE LABEL
	TIL NG
	EQUIPMENT AND APPLIANCE
	HYDRAULIC FIXTURE
	FURNISHING AND FURNITURE

REV.	DESCRIPTION	DATE	INIT.
01	50% CONSULTANT COORDINATION	10/07/2023	NK

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Paul Sekara rata NSW 7180 QLD 3108
Paul Trotter rata QLD 2946
Ryan Loveday rata QLD 4500

DESIGN DEVELOPMENT

PLACE DESIGN GROUP

GUNYAMA PARK

17 Zetland Ave, Zetland NSW
SYDNEY, NSW

FLOOR PLAN

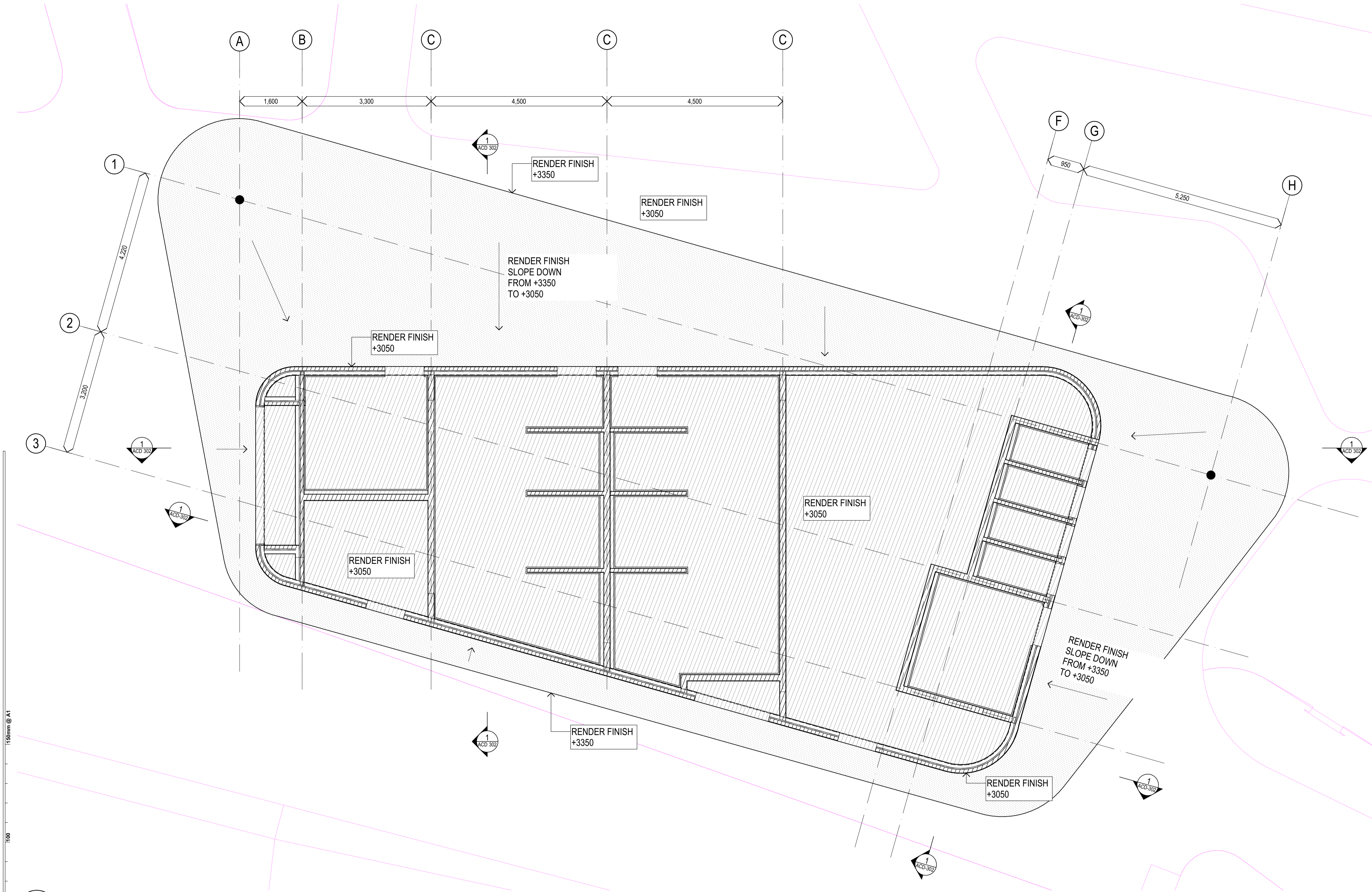
1 Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

PROJECT NUMBER
7106GP01

DIRECTOR
JW

DRAWING NUMBER
ACD-200

CHECKED
REVISION
01



1 PLAN
CEILING PLAN GROUND FLOOR
SCALE: 1:50

REV.	DESCRIPTION	DATE	INIT.
01	50% CONSULTANT COORDINATION	10/07/2023	NK

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John Ward	NSW 8371	QLD 3867	
Katerina Dracopoulos	VIC 18804	NSW 4529	
Mark Trotter	VIC 17991	NSW 4421	QLD 1870
Paul Sekara		NSW 7180	QLD 3108
Paul Trotter		NSW 7177	QLD 2946
Ryan Loveday			QLD 4500

PHASE **DESIGN DEVELOPMENT**
CLIENT **PLACE DESIGN GROUP**

PROJECT **GUNYAMA PARK**

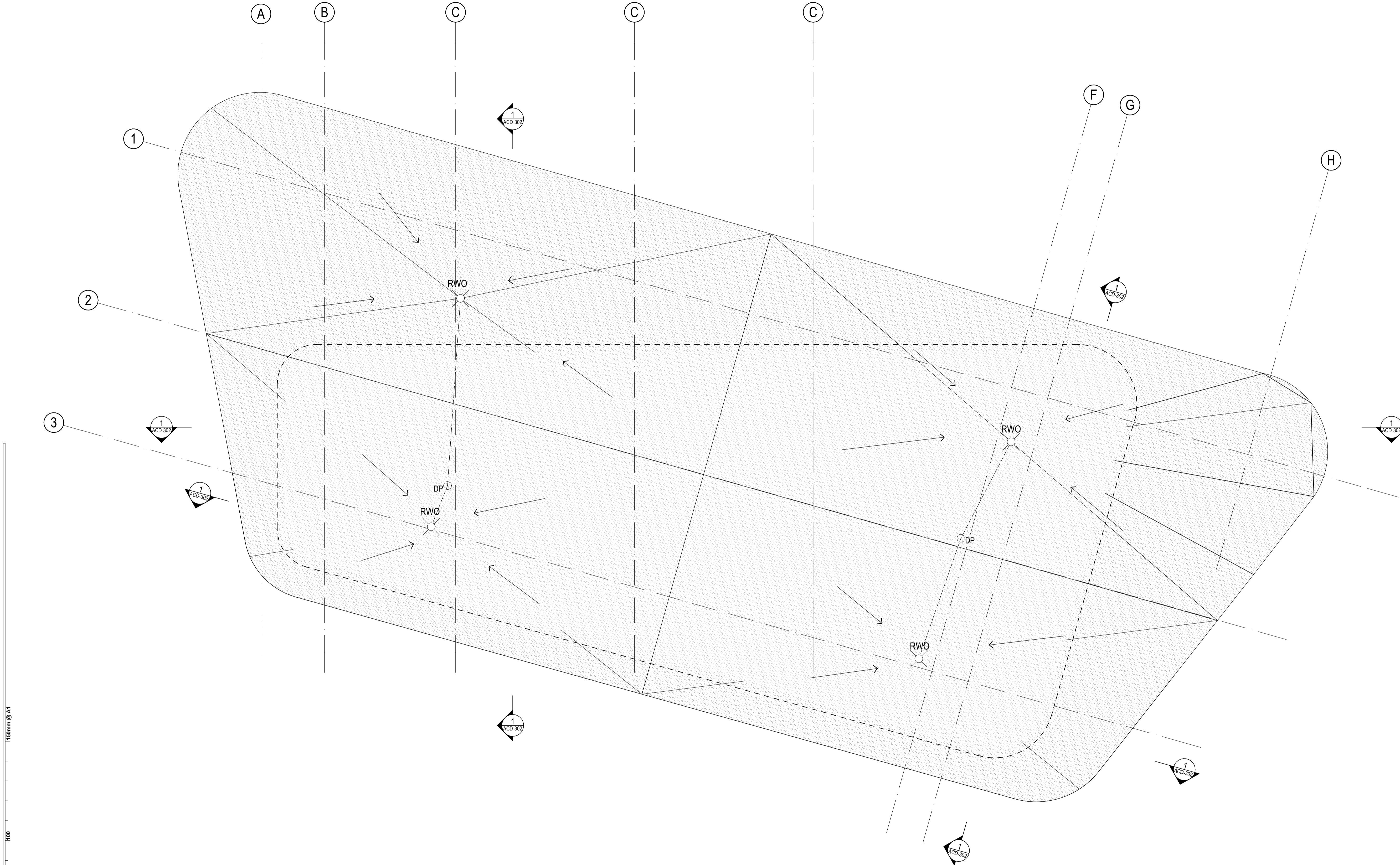
ADDRESS **17 Zetland Ave, Zetland NSW
SYDNEY, NSW**

DRAWING **CEILING PLAN**

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PROJECT NUMBER **7106GP01** DIRECTOR **JW** CHECKED

DRAWING NUMBER **ACD-203** REVISION **01**



ROOF PLAN LEGEND	
ROOF LABEL	
ROOF 1	← ROOF NUMBER
XX00 : XX00	← FINISH CODE (REFER TO FINISHES LEGEND)
—	← MATERIAL CODE (REFER TO MATERIAL LEGEND)
⊙	← FALL 5°
↗	← FALL IN ROOF

ROOF MATERIAL LEGEND

ROOF FINISHES LEGEND

REV.	DESCRIPTION	DATE	INIT.
01	50% CONSULTANT COORDINATION	10/07/2023	NK

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Katerina Dracopoulos	VIC 18804	QLD 4529
Mark Trotter	VIC 17691	QLD 1870
Paul Sekara	NSW 7180	QLD 3108
Paul Trotter	NSW 7177	QLD 2946
Ryan Loveday	NSW 7177	QLD 4500

DESIGN DEVELOPMENT

PLACE DESIGN GROUP

GUNYAMA PARK

17 Zetland Ave, Zetland NSW
SYDNEY, NSW

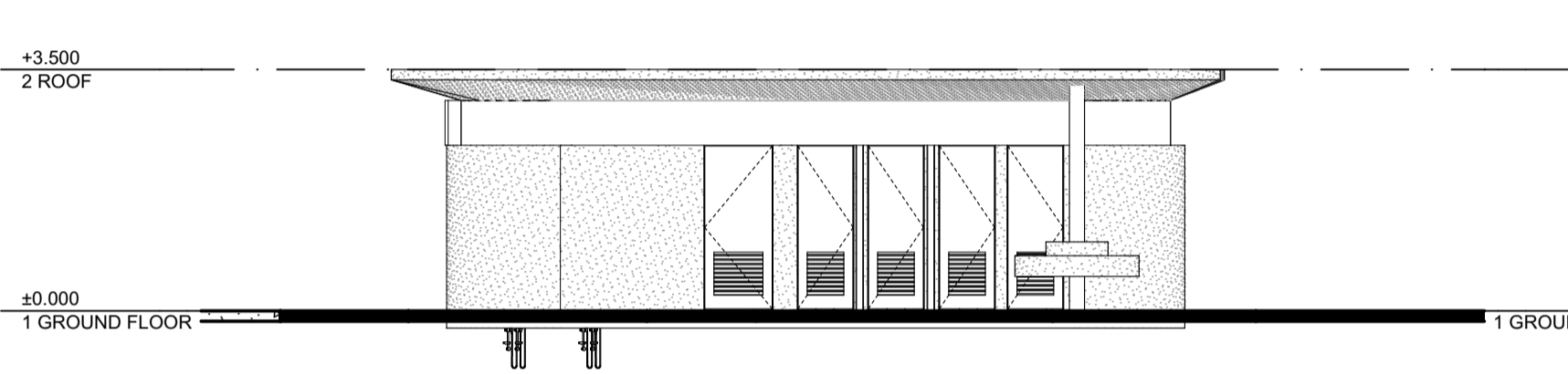
ROOF PLAN

Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

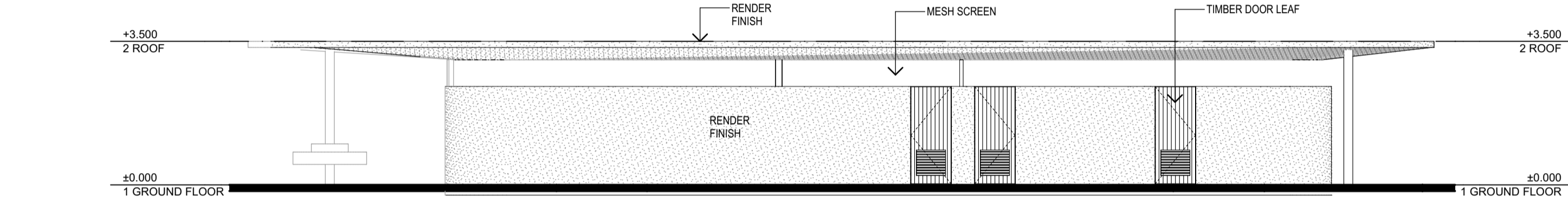
PROJECT NUMBER	DIRECTOR	CHECKED
7106GP01	JW	
DRAWING NUMBER	REVISION	
ACD-204	01	

150mm @ A1
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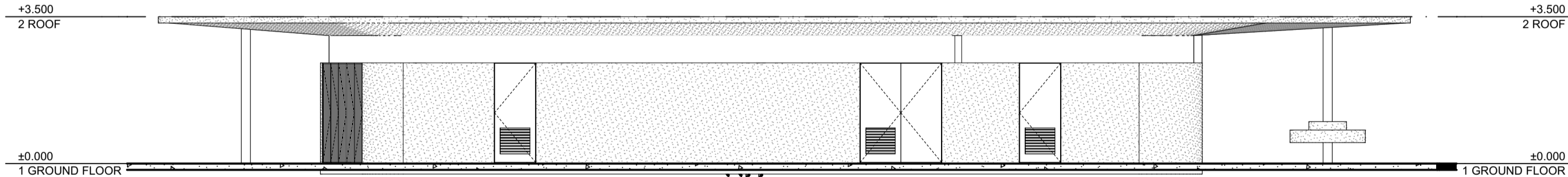
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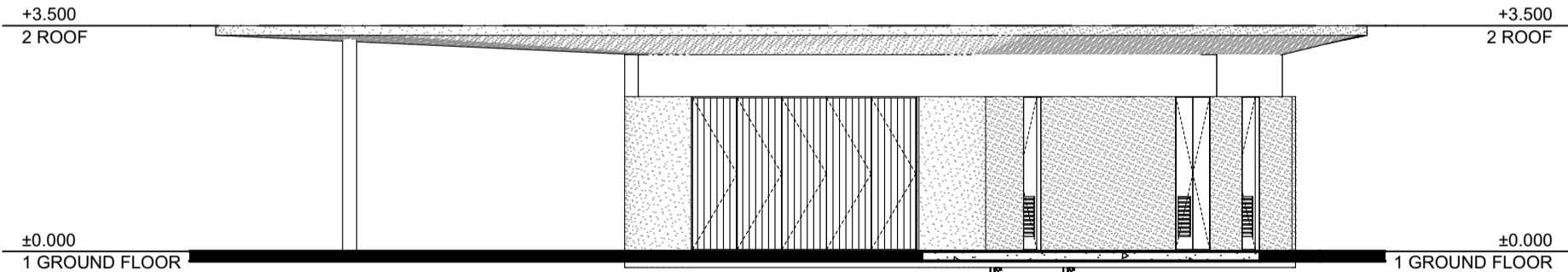
1 ELEVATION
EAST ELEVATION
SCALE: 1:100



1 ELEVATION
NORTH ELEVATION
SCALE: 1:100



1 ELEVATION
SOUTH ELEVATION
SCALE: 1:100



1 ELEVATION
WEST ELEVATION
SCALE: 1:100

ELEVATION LEGEND	
D101	DOOR LABEL
W101	WINDOW LABEL
XX99	MATERIAL CODE (REFER TO MATERIAL LEGEND)
XX99	WALL MATERIAL / FINISH LABEL
XX99	FINISH CODE (REFER TO FINISHES LEGEND)

ELEVATION MATERIAL LEGEND
CN - CONCRETE

ELEVATION FINISH SCHEDULE
SK01 - WHITE
SK55 - CONCRETE - Light
SK55 - CONCRETE 1

REV.	DESCRIPTION	DATE	INIT.
01	50% CONSULTANT COORDINATION	10/07/2023	NK

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Paul Trotter raia VIC 17691 NSW 4421 QLD 1518
Paul Trotter raia NSW 7180 QLD 3108
Ryan Loveday raia QLD 2946 QLD 4500

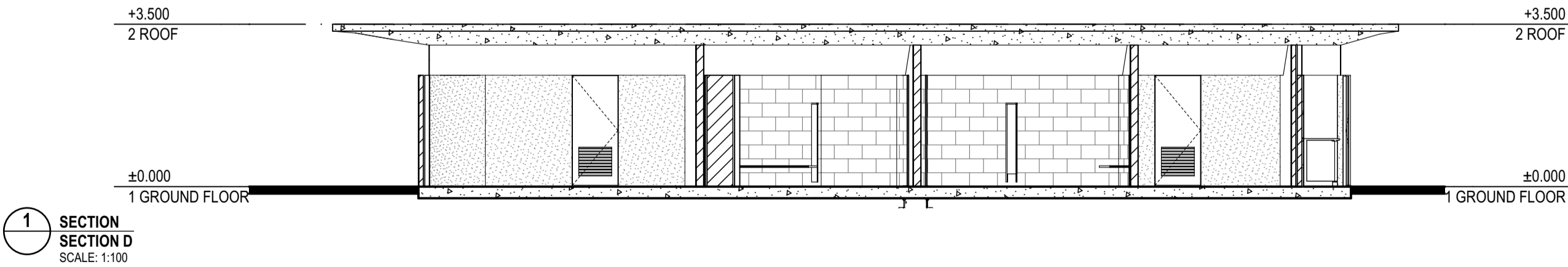
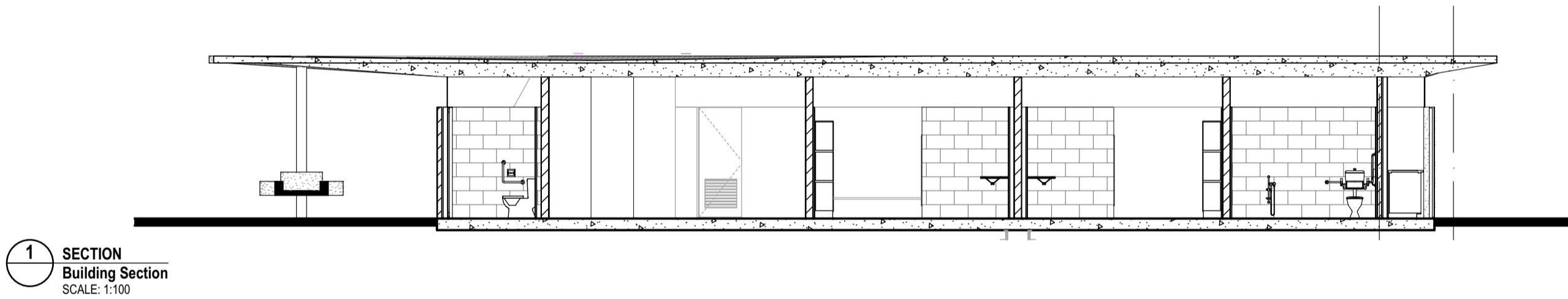
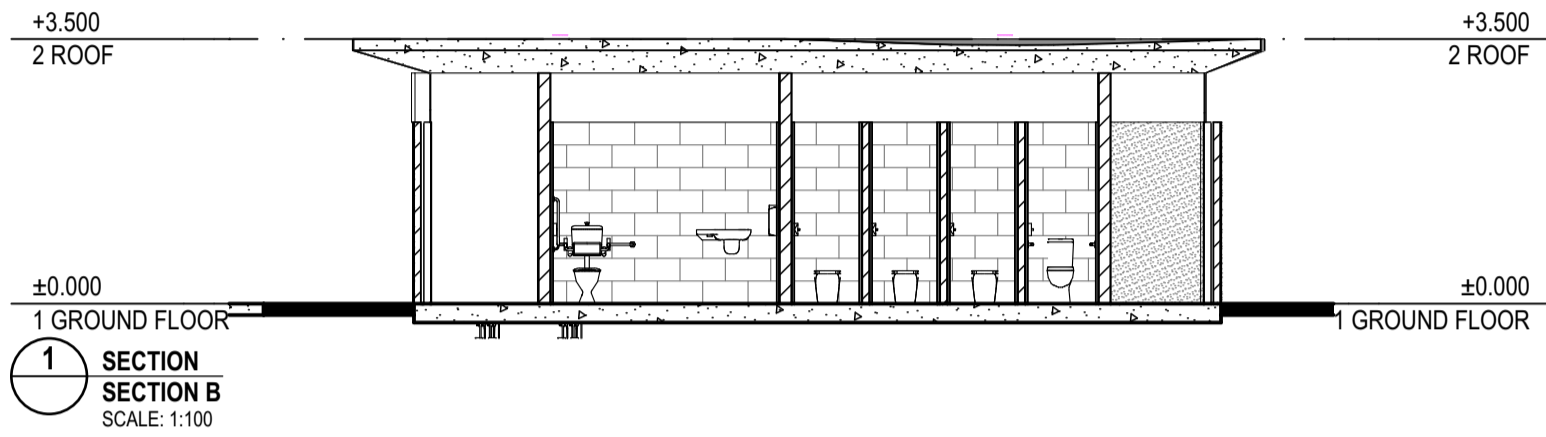
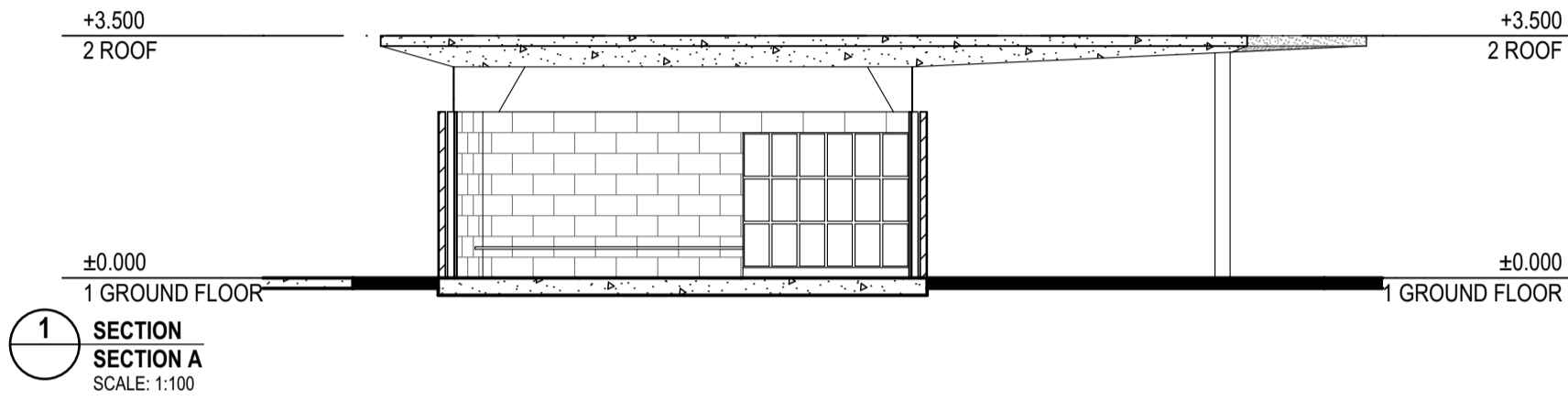
PHASE	DESIGN DEVELOPMENT
PROJECT	PLACE DESIGN GROUP
CLIENT	GUNYAMA PARK
ADDRESS	17 Zetland Ave, Zetland NSW SYDNEY, NSW

ELEVATION

Figured dimensions take precedence over scale dimensions. Contractors must verify all dimensions on site before commencing any work or making shop drawings.

PROJECT NUMBER	DIRECTOR	CHECKED
7106GP01	JW	
DRAWING NUMBER	REVISION	
ACD-301	01	

SECTION LEGEND	
	DOOR LABEL
	WINDOW LABEL
	MATERIAL CODE (REFER TO MATERIAL LEGEND)
	WALL MATERIAL / FINISH LABEL
	FINISH CODE (REFER TO FINISHES LEGEND)



REV.	DESCRIPTION	DATE	INIT.
01	50% CONSULTANT COORDINATION	10/07/2023	NK

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Paul Sekara raia NSW 7180 QLD 3108
Paul Trotter raia QLD 2946 NSW 7177
Ryan Loveday raia QLD 4500

DESIGN DEVELOPMENT

PLACE DESIGN GROUP

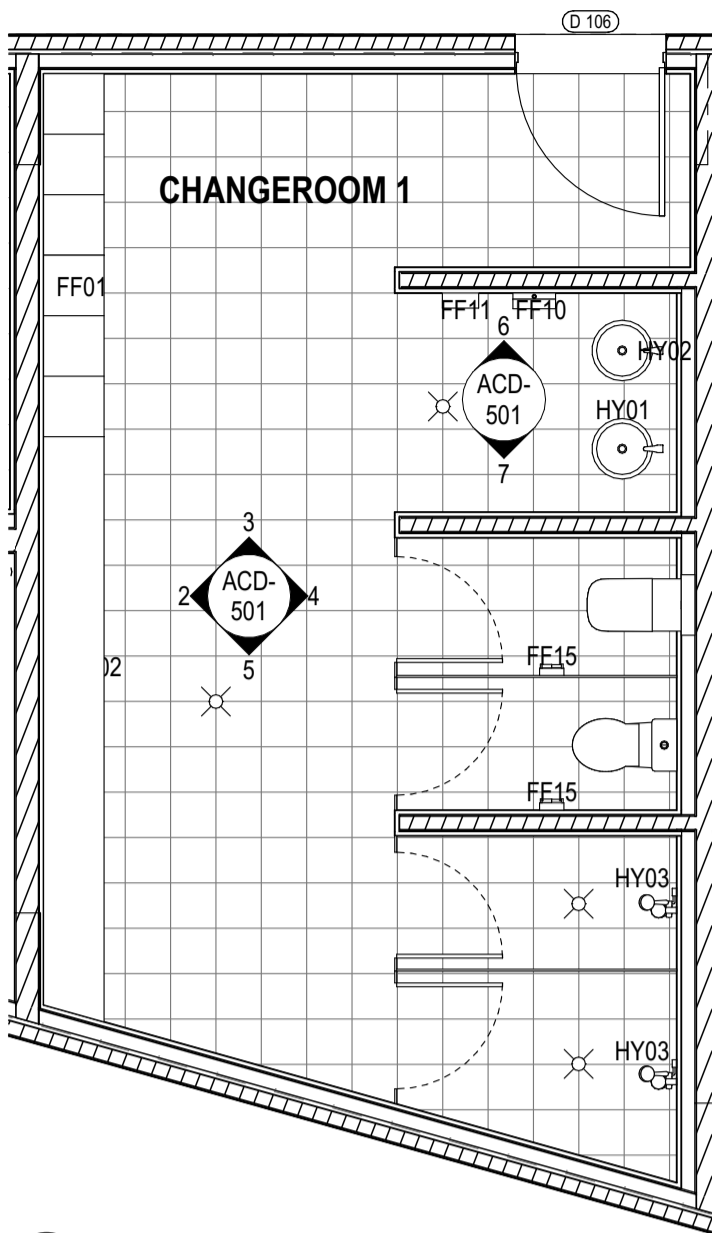
GUNYAMA PARK

**17 Zetland Ave, Zetland NSW
SYDNEY, NSW**

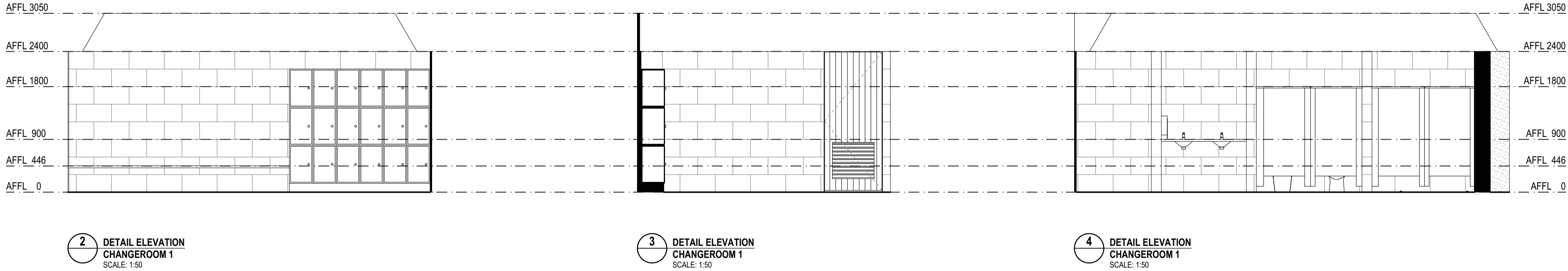
SECTION

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PROJECT NUMBER	DIRECTOR	CHECKED
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DRAWING NUMBER	REVISION	
ACD-302	01	



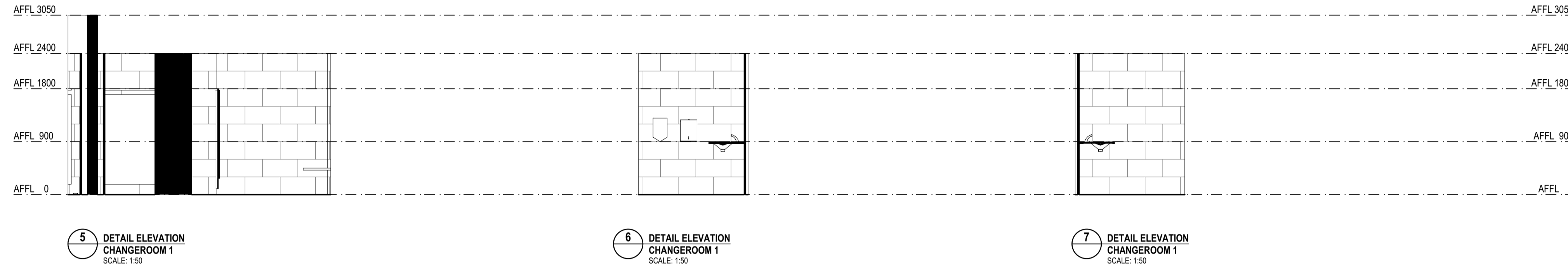
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2 DETAIL ELEVATION
CHANGEROOM 1
SCALE: 1:50

3 DETAIL ELEVATION
CHANGEROOM 1
SCALE: 1:50

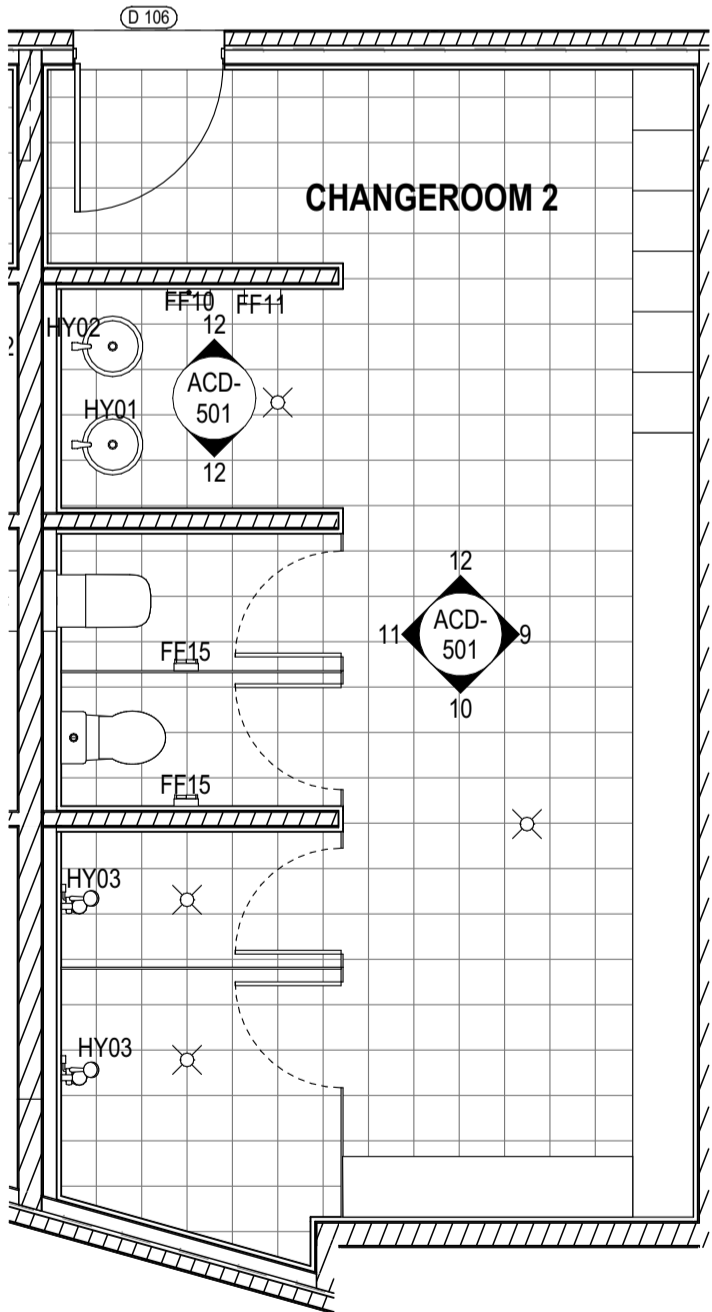
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CHANGEROOM 1
SCALE: 1:50



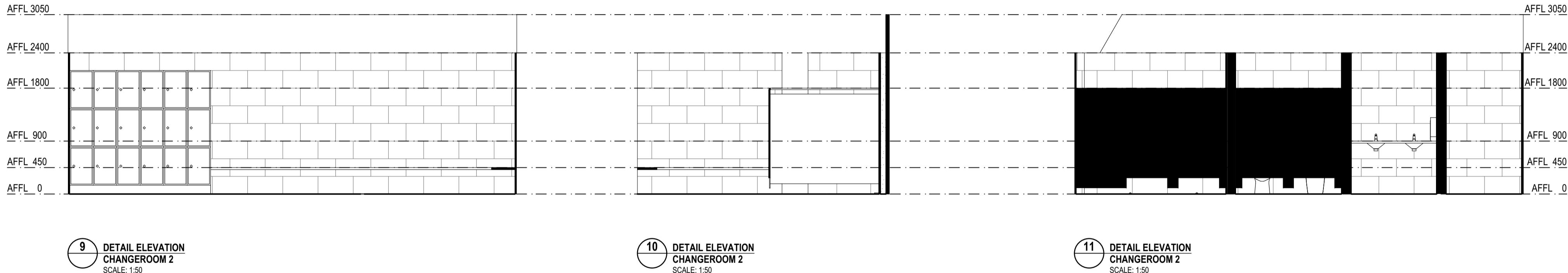
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CHANGEROOM 1
SCALE: 1:50

6 DETAIL ELEVATION
CHANGEROOM 1
SCALE: 1:50

7 DETAIL ELEVATION
CHANGEROOM 1
SCALE: 1:50



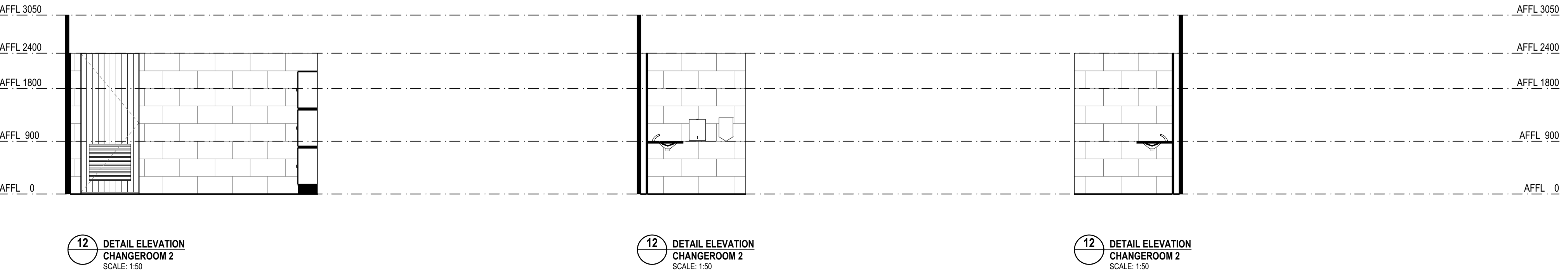
8 PLAN
CHANGEROOM 2
SCALE: 1:50



9 DETAIL ELEVATION
CHANGEROOM 2
SCALE: 1:50

10 DETAIL ELEVATION
CHANGEROOM 2
SCALE: 1:50

11 DETAIL ELEVATION
CHANGEROOM 2
SCALE: 1:50



12 DETAIL ELEVATION
CHANGEROOM 2
SCALE: 1:50

13 DETAIL ELEVATION
CHANGEROOM 2
SCALE: 1:50

14 DETAIL ELEVATION
CHANGEROOM 2
SCALE: 1:50

ROOM LAYOUT LEGEND

INTERNAL MATERIAL LEGEND

INTERNAL FINISHES LEGEND

REV.	DESCRIPTION	DATE	INIT.
01	50% CONSULTANT COORDINATION	10/07/2023	NK

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John Ward	NSW 6855	QLD 3867
Katerina Dracopoulos	NSW 6855	QLD 4529
Mark Trotter	NSW 6855	QLD 1870
Paul Sekara	NSW 7180	QLD 3108
Paul Trotter	NSW 7177	QLD 2946
Ryan Loveday	NSW 4500	QLD 4500

DESIGN DEVELOPMENT

PLACE DESIGN GROUP

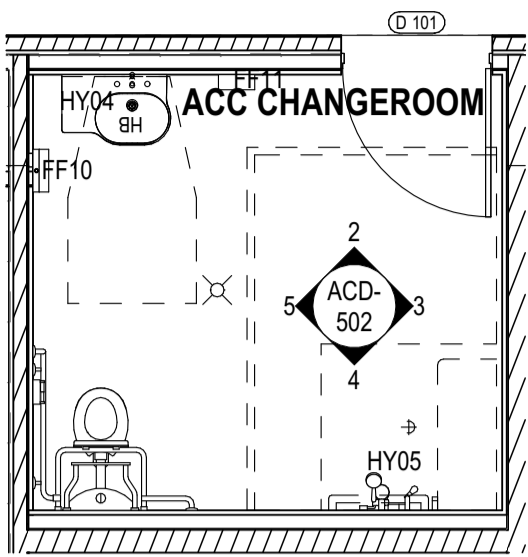
GUNYAMA PARK

17 Zetland Ave, Zetland NSW
SYDNEY, NSW

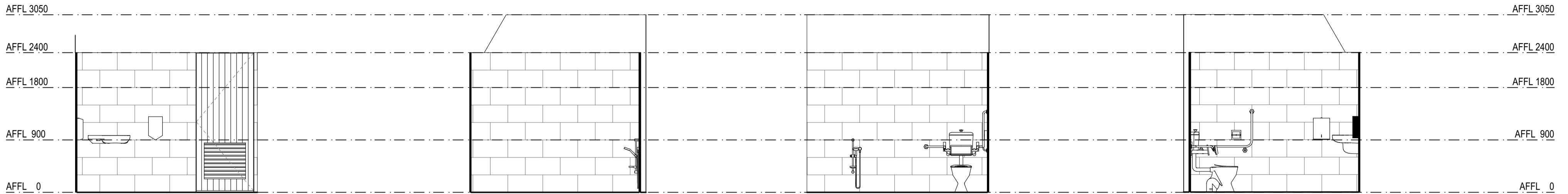
ROOM LAYOUT 1

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scale dimensions. Contractors must verify
all dimensions on site before commencing
any work or making shop drawings.

PROJECT NUMBER	DIRECTOR	CHECKED
7106GP01	JW	
DRAWING NUMBER	REVISION	
ACD-501	01	



1 PLAN
ACCESSIBLE CHANGERROOM
SCALE: 1:50

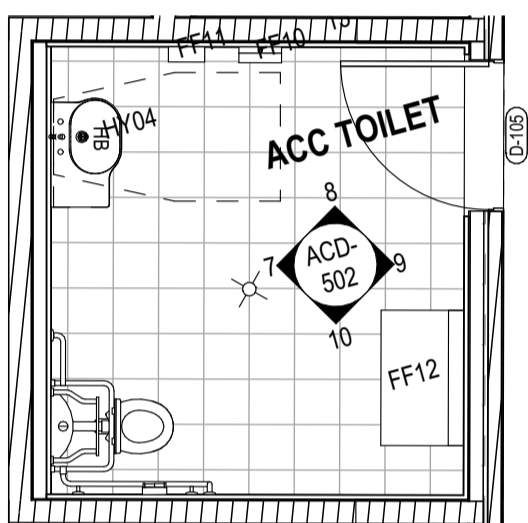


2 ELEVATION
ACCESSIBLE CHANGERROOM
SCALE: 1:50

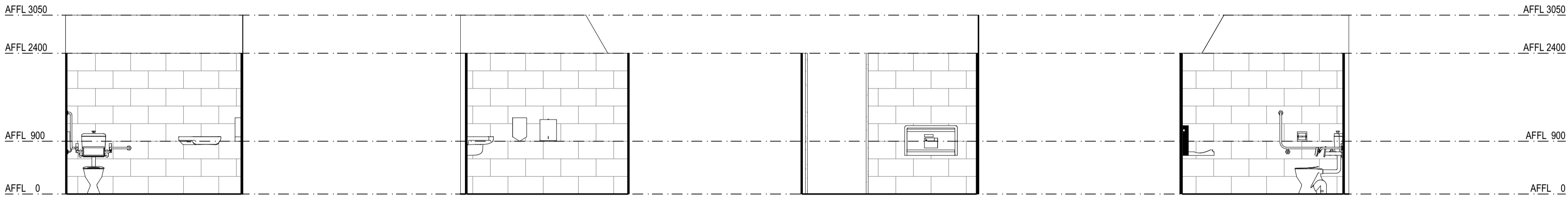
3 ELEVATION
ACCESSIBLE CHANGERROOM
SCALE: 1:50

4 ELEVATION
ACCESSIBLE CHANGERROOM
SCALE: 1:50

5 ELEVATION
ACCESSIBLE CHANGERROOM
SCALE: 1:50



6 PLAN
ACCESSIBLE TOILET
SCALE: 1:50

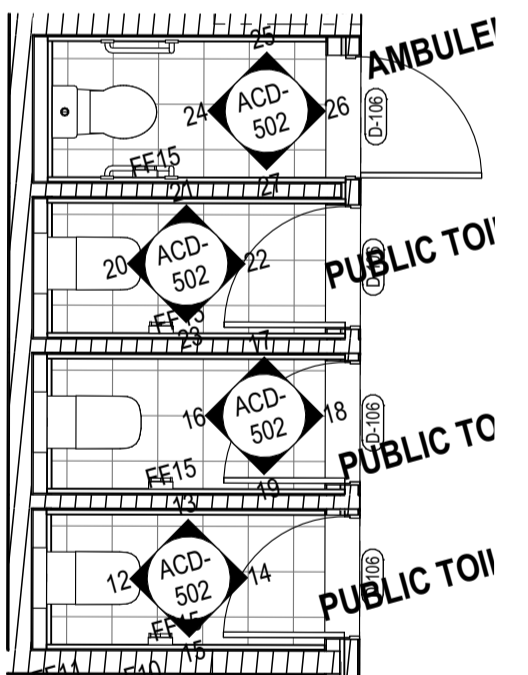


7 DETAIL ELEVATION
ACCESSIBLE TOILET
SCALE: 1:50

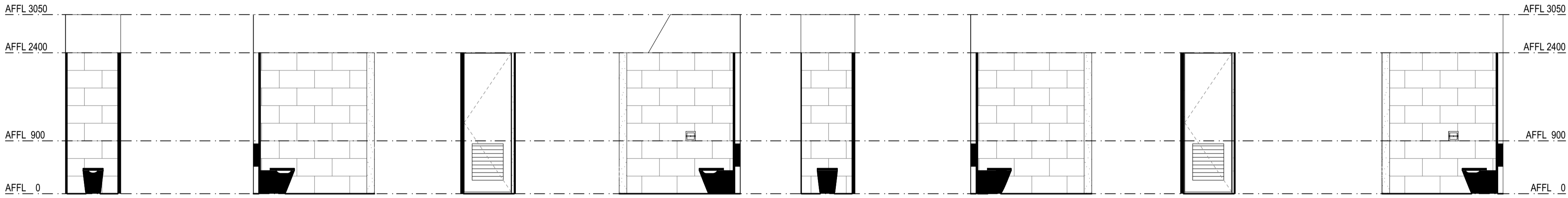
8 DETAIL ELEVATION
ACCESSIBLE TOILET
SCALE: 1:50

9 DETAIL ELEVATION
ACCESSIBLE TOILET
SCALE: 1:50

10 DETAIL ELEVATION
ACCESSIBLE TOILET
SCALE: 1:50



11 PLAN
ACCESSIBLE TOILET
SCALE: 1:50



12 DETAIL ELEVATION
PUBLIC TOILET 01
SCALE: 1:50

13 DETAIL ELEVATION
PUBLIC TOILET 01
SCALE: 1:50

14 DETAIL ELEVATION
PUBLIC TOILET 01
SCALE: 1:50

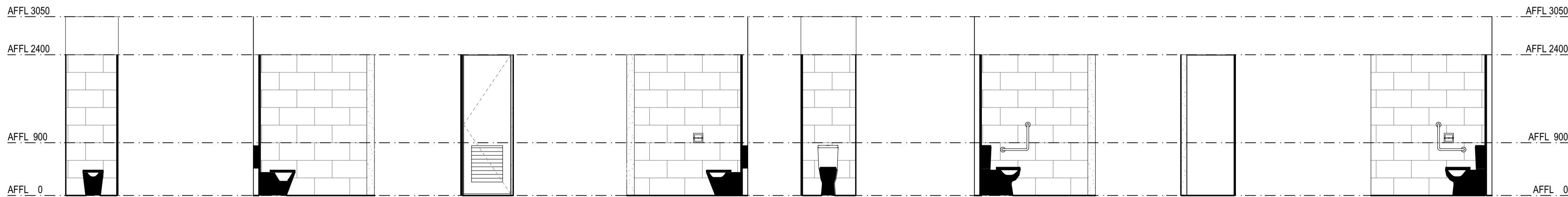
15 DETAIL ELEVATION
PUBLIC TOILET 01
SCALE: 1:50

16 DETAIL ELEVATION
PUBLIC TOILET
SCALE: 1:50

17 DETAIL ELEVATION
PUBLIC TOILET
SCALE: 1:50

18 DETAIL ELEVATION
PUBLIC TOILET
SCALE: 1:50

19 DETAIL ELEVATION
PUBLIC TOILET
SCALE: 1:50



20 DETAIL ELEVATION
PUBLIC TOILET
SCALE: 1:50

21 DETAIL ELEVATION
PUBLIC TOILET
SCALE: 1:50

22 DETAIL ELEVATION
PUBLIC TOILET
SCALE: 1:50

23 DETAIL ELEVATION
PUBLIC TOILET
SCALE: 1:50

24 DETAIL ELEVATION
PUBLIC AMBULANT TOILET
SCALE: 1:50

25 DETAIL ELEVATION
PUBLIC AMBULANT TOILET
SCALE: 1:50

26 DETAIL ELEVATION
PUBLIC AMBULANT TOILET
SCALE: 1:50

27 DETAIL ELEVATION
PUBLIC AMBULANT TOILET
SCALE: 1:50

REV.	DESCRIPTION	DATE	INIT.
01	50% CONSULTANT COORDINATION	10/07/2023	NK

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Mark Trotter rata NSW 8371 QLD 1870
Paul Sekara rata VIC 17991 NSW 4421
Paul Trotter rata NSW 7180 QLD 3108
Ryan Loveday rata NSW 7177 QLD 2946 QLD 4500

DESIGN DEVELOPMENT

PLACE DESIGN GROUP

GUNYAMA PARK

17 Zetland Ave, Zetland NSW
SYDNEY, NSW

ROOM LAYOUT 2

Figured dimensions take precedence over
scale dimensions. Contractors must verify
all dimensions on site before commencing
any work or making shop drawings.

PROJECT NUMBER	DIRECTOR	CHECKED
7106GP01	JW	
DRAWING NUMBER	REVISION	
ACD-502	01	

150mm @ A1

100

50

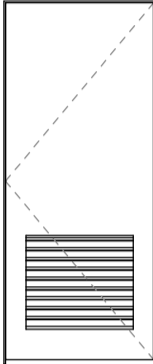
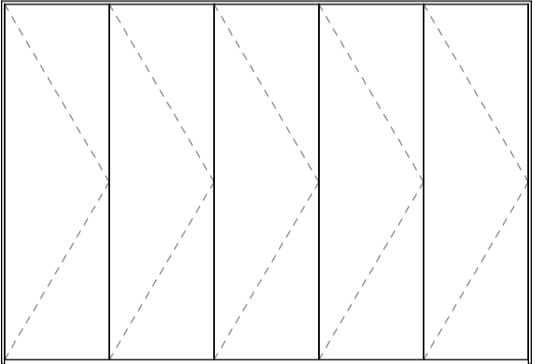
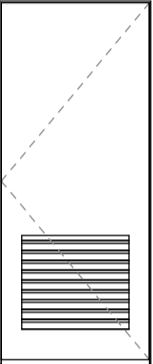
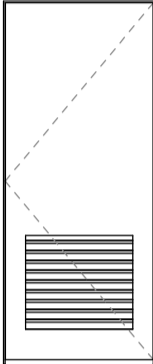
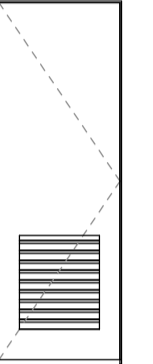
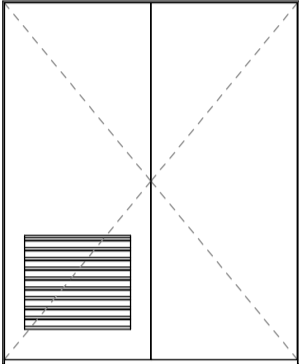
150mm @ A1

100

50

150mm @ A1

plot date: Tuesday, 11 July 2023, 8:50 AM file location: P:\7106GP01 Gunyama Park - Stage 2 - Amenities Building\02 DRAWINGS\1. Arch\CAD Files\7106GP01-Gunyama Park.pln

						
NUMBER	D-101, D-106	D-102	D-103, D-104	D-105	D-106	D-107
LOCATION	[SET CUSTOM]	[SET CUSTOM]	[SET CUSTOM]	[SET CUSTOM]	[SET CUSTOM]	[SET CUSTOM]
TYPE	[SELECT OPERATION TYPE]	[SELECT OPERATION TYPE]	[SELECT OPERATION TYPE]	[SELECT OPERATION TYPE]	[SELECT OPERATION TYPE]	[SELECT OPERATION TYPE]
OVERALL & LEAF SIZE (W X H)	Overall: 1,000mm W x 2,400mm H Leaf: 1 x 980mm x 2,360mm	Overall: 3,505mm W x 2,090mm H Leaves: 5 x 693mm x 2,350mm	Overall: 990mm W x 2,360mm H Leaf: 1 x 980mm x 2,360mm	Overall: 990mm W x 2,360mm H Leaf: 1 x 980mm x 2,360mm	Overall: 820mm W x 2,360mm H Leaf: 1 x 800mm x 2,360mm	Overall: 1,960mm W x 2,360mm H Leaves: 1 x 970mm + 1 x 970mm x 2,360mm
FRAME	Type: ARCH - SD Finish: SK02 - BLACK Notes:	Type: ARCH - SD Finish: SK02 - BLACK Notes:	Type: ARCH - SD Finish: SK03 - LIGHT GREY Notes:	Type: ARCH - SD Finish: SK02 - BLACK Notes:	Type: ARCH - SD Finish: SK02 - BLACK Notes:	Type: ARCH - SD Finish: SK02 - BLACK Notes:
LEAF	Type: ARCH - SD Notes:	Type: ARCH - SD Notes:	Type: ARCH - SD Notes:	Type: ARCH - SD Notes:	Type: ARCH - SD Notes:	Type: ARCH - SD Notes:
LEAF FINISH	Internal: SK63 - Timber Cladding External: SK63 - Timber Cladding Notes:	Internal: SK63 - Timber Cladding External: SK63 - Timber Cladding Notes:	Internal: SK68 - CHARCOAL External: SK68 - CHARCOAL Notes:	Internal: SK68 - CLAY External: SK68 - CLAY Notes:	Internal: SK68 - CLAY External: SK68 - CLAY Notes:	Internal: SK68 - CHARCOAL External: SK68 - CHARCOAL Notes:

DOOR SCHEDULE LEGEND

Product Specifications noted below comply with current Standards and Codes. Any alternatives need to comply with current Standards and Codes

- All Window and Door dimensions are nominal only and are to be checked on site prior to placing order.
- All Windows and Doors to External Walls are viewed from External Side
- All Windows and Doors to Internal Walls are viewed from the Nominated Room
- All Glazing to comply with BCA Volume 1 Part B1.4 (h), Part F1.13 (access compliant low profile thresholds will not comply with Part F1.13), Part J2 Glazing and referenced current Australian Standards.
- Full Height Glazing to be provided with Contrasting Decal to comply with AS1428.1 Section 6.6. Lincoln Sentry Safety Decal Trend Large 3-712-045.
- External Glass to be Viridian ComfortPlus SuperGreen 49, U Value 3.6 & SHGC 0.37
- Internal Glass to be Viridian VTough Clear
- Key Locks to be provided to all operable windows
- Provide Manual Window Winder to all Operable Windows with a sill above 1800mm AFFL. Manual Winder to be Unique Window Services MDCR or approved equivalent. Winders to be located at 1000mm AFFL and located horizontally where shown on Room Elevation Drawings or otherwise agreed location with Architect.
- Door Thresholds to comply with AS1428.1 Section 5.1.2
- All Aluminium Windows and Doors are to be powder coat finish to AS 3715. Grade: Architectural Finish.
- All timber door sets that have multiple leaves to have rebated stiles
- All Hollow Core Doors fitted with Mortice Locks require a Mortice Lock Block.
- Provide to doors Hoop Pine Edge Strips with mitred corners
- External Faces of doors to be lined with Durocote hardboard 4.8mm thick with paint finish or equal equivalent
- Internal Faces of doors to be lined with Redicote hardboard 4.8mm thick with paint finish or equal equivalent
- Fire and Smoke Doors to comply with BCA Volume 1 Spec C3.4 and AS 1905.1
- Fire Door and Frame cavities are to be fire rated to -120/30
- Fire and Smoke Doors Seals shall be Raven Door Seals or equal equivalent
 - Bottom Seal - RP8S1 (Concealed in base)
 - Jamb & Head - RP78S1
 - Stiles - 2 x RP71S1
- External Doors and Windows are to be fitted with Raven Seals or equivalent to meet the requirements of Volume 1 BCA Part J3.
- Refer to Mechanical Engineers Documents for Doors that require Grilles or require to be undercut.
- No midrails to Glazed Doors unless noted otherwise.
- Flyscreens - **Not Applicable**
- Security Screens - **Not Applicable**

01	50% CONSULTANT COORDINATION	10/07/2023	NK
REV.	DESCRIPTION	DATE	INT.

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John Ward: raia	VIC 18804	NSW 6371	QLD 3847
Katerina Dracopoulos: raia			QLD 4529
Mark Trotter: fraia	VIC 17691	NSW 4421	QLD 1870
Paul Sekava: raia		NSW 7180	QLD 3108
Paul Trotter: fraia	NSW 7177	QLD 2646	
Ryan Loveday: raia			QLD 4500

DESIGN DEVELOPMENT

PLACE DESIGN GROUP

GUNYAMA PARK

17 Zetland Ave, Zetland NSW
SYDNEY, NSW

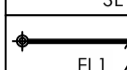

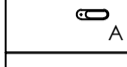
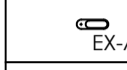

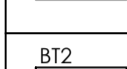

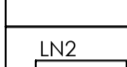
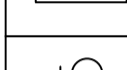
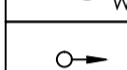
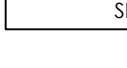
DOOR SCHEDULE

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PROJECT NUMBER	DIRECTOR	CHECKED
7106GP01	JW	
DRAWING NUMBER	REVISION	
ACD-601	01	

GUNYAMA PARK STAGE 2

LIGHTING LEGEND

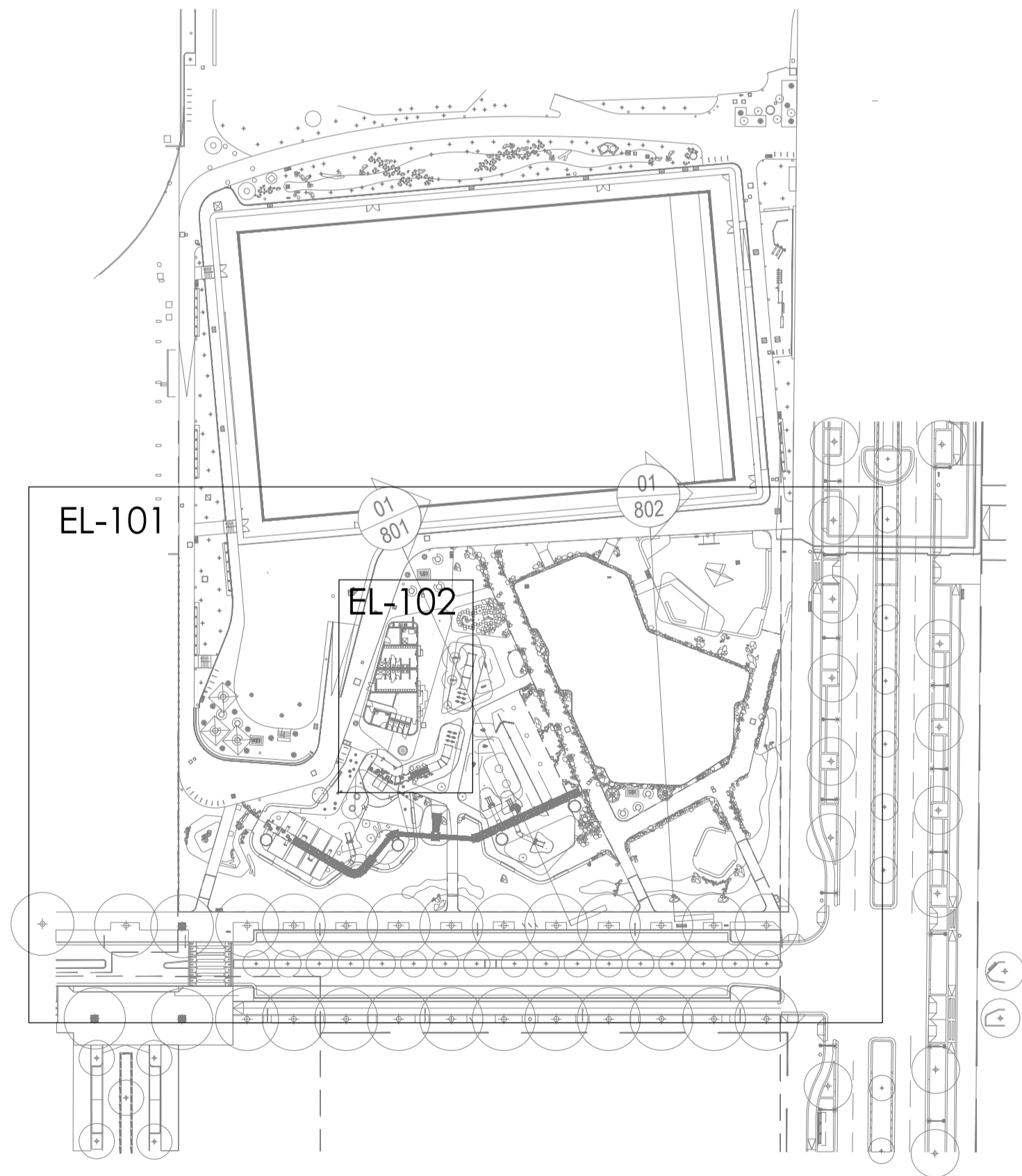
SYMBOL	DESCRIPTION	HOUSING/COLOUR	REFLECTOR	LAMP	CONTROL GEAR	SUPPLIER	PRODUCT No.
	GE ECO R250 40W LED STREETLIGHT MOUNTED ON STEEL POLE 7.5m MOUNTING HEIGHT, 3.0m OUTREACH ARM	GREY FINISH	N/A	41.14W LED 5229 lm 4000K	ELECTRONIC CONTROL GEAR	Connected Light Solutions (GE LIGHT)	GE ECO 250 40W 4000K 40W -IESNA2002
	IP66, IK07, PEDESTRIAN CROSSING FLOODLIGHT MOUNTED AT 7.5m HEIGHT, 3.0m OUTREACH ARM EYE GUELL	GREY FINISH	WIDE ASYMMETRIC	115W LED 8934 lm 4000K	ELECTRONIC CONTROL GEAR	EYE + VICOPOLES FOR MOUNTING BRACKET	EYE GUELL 2 115W 8934lm 173105-GuelI2-114W-LED -4000K-Asymmm-W8
	POST TOP LUMINAIRE MOUNTED ON A 4.5m POLE - FACING PLATE LIGHT POLE, BRONZE POWDERCOATED ALUMINIUM TO REMAIN	BRONZE	ASYMMETRIC	44.41W LED 2824 lm 4000K	INTEGRAL ELECTRONIC CONTROL GEAR	HUB GROUP	HUB - CoS PEDESTRIAN TZANNES LIGHT POLE GA3 180434PH
	EXISTING STAGE 1 POST TOP LUMINAIRE MOUNTED ON A 4.5m POLE - FACING PLATE LIGHT POLE, BRONZE POWDERCOATED ALUMINIUM TO REMAIN	BRONZE	ASYMMETRIC	44.41W LED 2824 lm 4000K	INTEGRAL ELECTRONIC CONTROL GEAR	HUB GROUP	HUB - CoS PEDESTRIAN TZANNES LIGHT POLE GA3 180434PH
	IP65, IK07, CEILING MOUNTED DOWNLIGHT SURFACE MOUNTED UNDERSIDE OF SHADE STRUCTURES	GRAPHITE	WIDE BEAM	9.2W LED 915 lm 3000K	INTEGRAL ELECTRONIC CONTROL GEAR	LIGHT CULTURE / BEGA	BEGA 24.404 + K3
	IK08 IP66 LED LUMINAIRE 1200mm SURFACE MOUNTED	DIFFUSED	DIFFUSER	13.4W LED 1630 lm 3000K	ELECTRONIC CONTROL GEAR	LIGHT CULTURE	ARAGON-1200-S-B-1630 830 13W (AD)
	IK08 IP66 LED LUMINAIRE 1200mm SURFACE MOUNTED	DIFFUSED	DIFFUSER	16W LED 1950 lm 3000K	ELECTRONIC CONTROL GEAR	LIGHT CULTURE	ARAGON-1200-S-B-1950 830 16W (AD)
	IP55, IK10, LINEAR LED EXTRUSION CEILING SURFACE MOUNTED, COMPLETE WITH SURFACE MOUNTING BRACKETS, LENGTHS AS SHOWN IN PLAN.	WHITE TBC	SYMMETRIC LEDOPTIK	LED 9.1W/m 1000 lm/m 3000K	INTEGRAL ELECTRONIC CONTROL GEAR	KLIK SYSTEMS	KALLI 080 BEAM D KAL0808MD-DIR-LPC-W -Sym-LED1000m-90CRI-3K
	IP55, IK10, LINEAR LED EXTRUSION CEILING SURFACE MOUNTED, COMPLETE WITH SURFACE MOUNTING BRACKETS, LENGTHS AS SHOWN IN PLAN.	WHITE TBC	SYMMETRIC LEDOPTIK	LED 23.5W/m 1575 lm/m 3000K	INTEGRAL ELECTRONIC CONTROL GEAR	KLIK SYSTEMS	KALLI 080 BEAM D KAL0808MD-DIR-LPC-W -Sym-LED2250m-90CRI-3K
	IP66, IK07, WALL MOUNTED LUMINAIRE WITH DIRECT COMPONENT, INSTALLED AT 2000mm FROM FFL.	RAL 9004 SIGNAL BLACK TBC	FORWARD (A60)	11W LED 386.4 lm 3000K	INTEGRAL ELECTRONIC CONTROL GEAR	BUCKFORD ILLUMINATION / WE-EF	VL5410 LED 131-9818
	IP66, IK07, MEDIUM BEAM SPOTLIGHT COMPLETE WITH COLUMN FITTER INSTALLED ON STRUCTURE COLUMN	RAL 9004 SIGNAL BLACK TBC	MEDIUM BEAM	5W LED 398.4 lm 3000K	INTEGRAL ELECTRONIC CONTROL GEAR	BUCKFORD ILLUMINATION / WE-EF	RLC301 SPIGOT MOUNTED 145-7184 + 145-9536

POWER LEGEND

SYMBOL	DESCRIPTION	HOUSING/COLOUR	SUPPLIER	PRODUCT No.
	EXISTING DISTRIBUTION SWITCH BOARD MODIFY AS NOTED	ORANGE X15	-	-
	IN-GROUND HD ELECTRICAL CONDUIT REFER TO LAYOUT FOR SIZES	ORANGE	-	-
	IN-GROUND HD ELECTRICAL & COMMS CONDUITS REFER TO LAYOUT FOR SIZES	ORANGE/WHITE	-	-
	600x600 CLASS C PIT WITH PAVING INFILL LID	PAVING IN FILL LID WITH STEEL EDGE	ACO	66H + DI66C
	240V 10A IP66 SOCKET OUTLET	WHITE	CLIPSAL	S6C310
	240V ISOLATOR, RATING AS NOTED	WHITE	CLIPSAL	-

DRAWING LIST

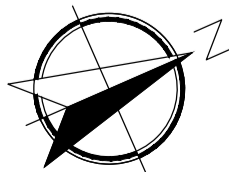
EL-001	LEGEND, DRAWING LIST AND LOCATION PLAN
EL-101	LIGHTING & ELECTRICAL LAYOUT - LANDSCAPE & STREETSCAPE
EL-102	LIGHTING & ELECTRICAL LAYOUT - AMENITIES BUILDING
EL-201	LIGHTING DETAILS - SHEET 01
EL-202	LIGHTING DETAILS - SHEET 02
EL-300	SINGLE LINE DIAGRAM



01


LOCATION PLAN
1:1000@A1

Issue	Amendment	Date
P1	PRELIMINARY ISSUE	12-07-23
P2	50% ISSUE	17-07-23



0 10 20 30 40 50 100m 1:1000@A1

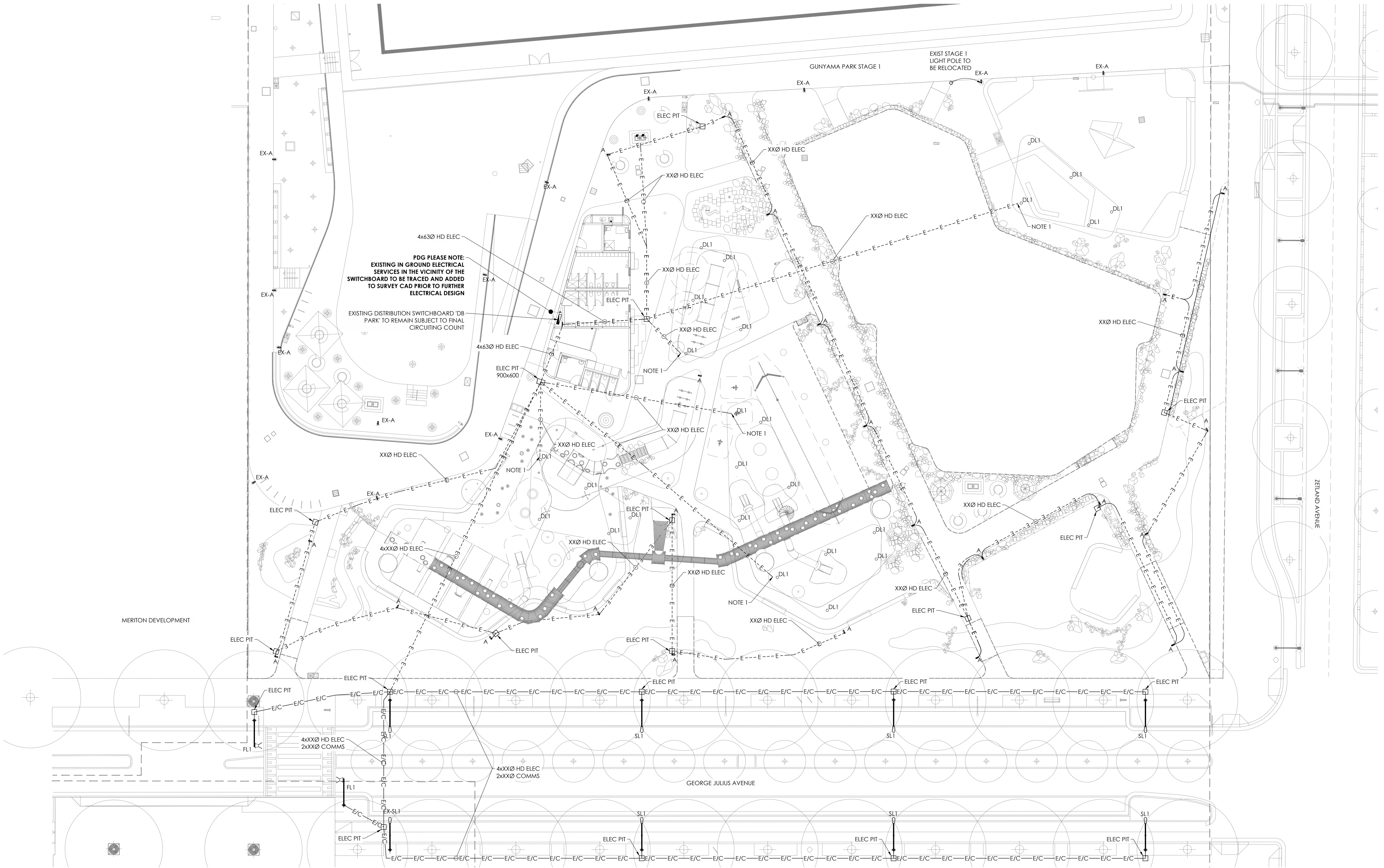
Lead Consultant
PLACE DESIGN GROUP
Client
CITY OF SYDNEY


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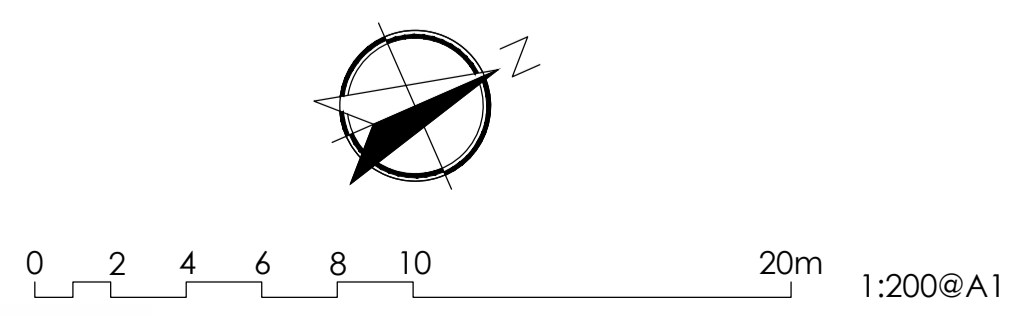
Project GUNYAMA PARK STAGE 2

Drawing LEGEND, DRAWING LIST & LOCATION PLAN

Drawn MA	Approved RM	Date JUN 2023	Scale 1:1000@A1
Project No	Drawing No	Rev	
L177D	EL-001	P2	



Issue	Amendment	Date
P1	PRELIMINARY ISSUE	12-07-23
P2	50% ISSUE	17-07-23



- Notes:
- Conduit to rise within column/structure supporting shade structure. Access opening to base & top of column/structure to facilitate cable installation

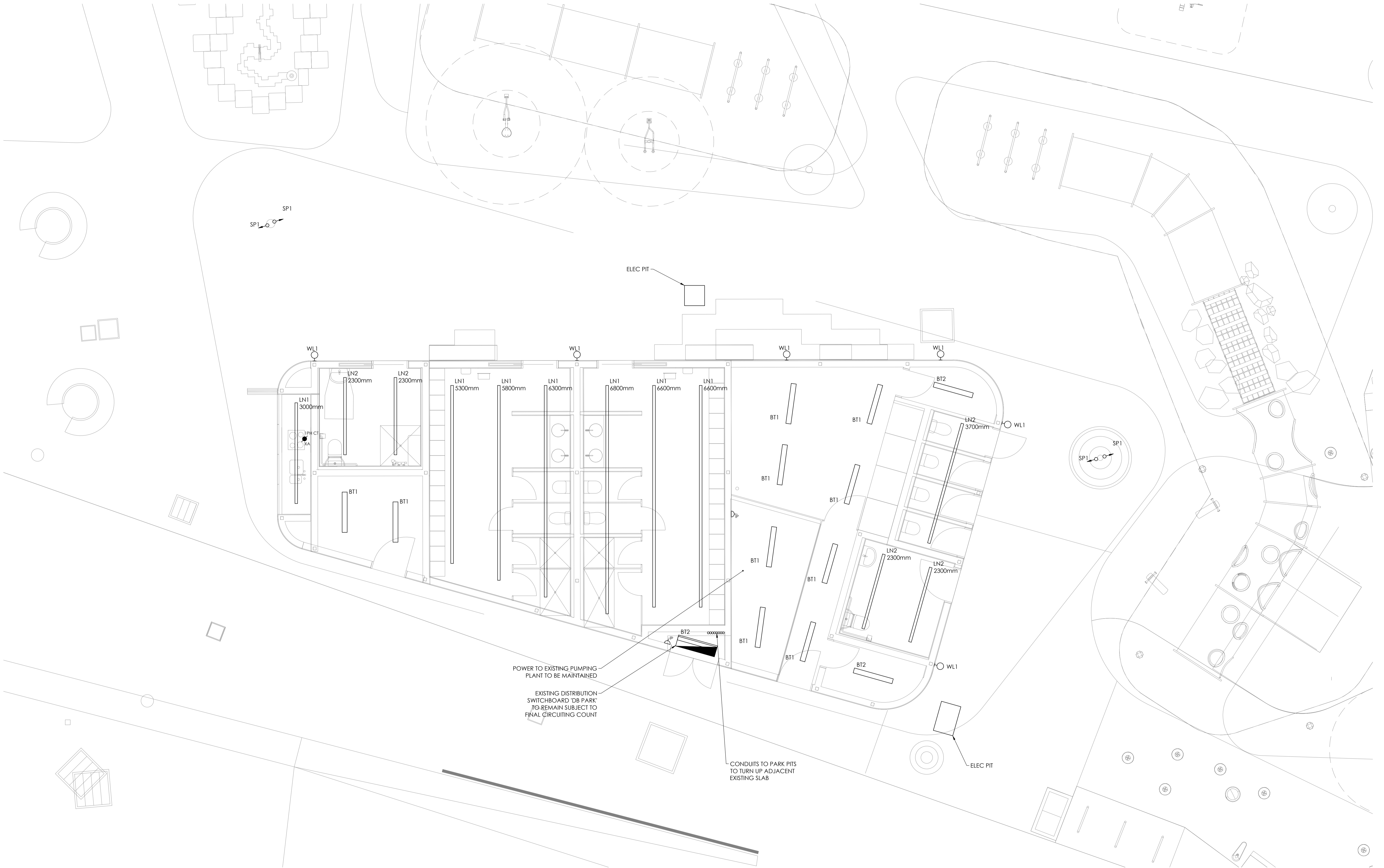
Lead Consultant
PLACE DESIGN GROUP
Client
CITY OF SYDNEY



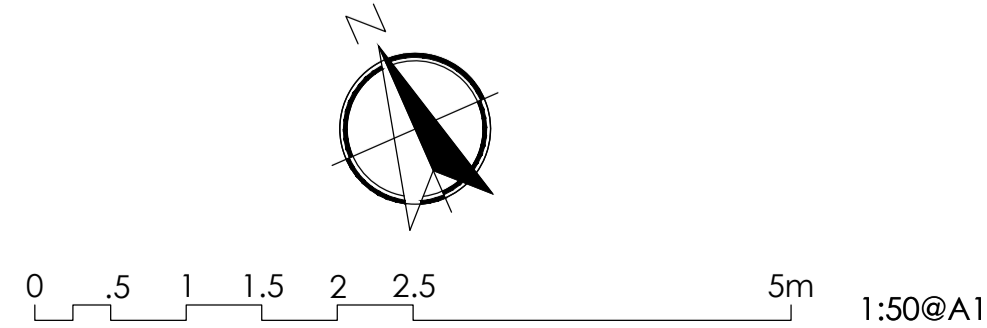
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Project	GUNYAMA PARK STAGE 2	Scale	1:200@A1
Drawing	LIGHTING & ELECTRICAL LAYOUT LANDSCAPE & STREETSCAPE	Date	JUN 2023
Drawn MA	Approv. RM	Rev	P2
Project No	Drawing No		
L177D	EL-101		



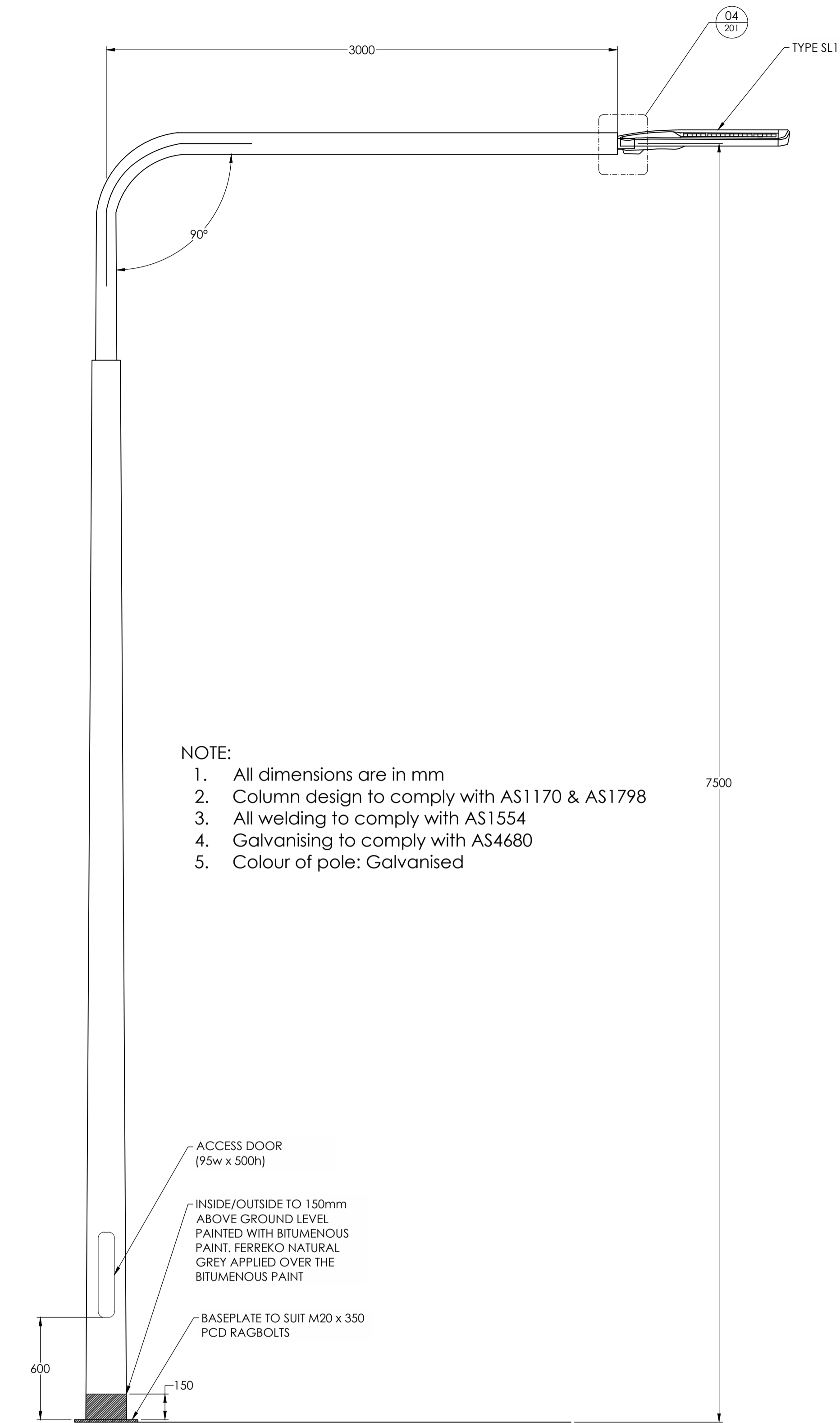
Issue	Amendment	Date
P1	PRELIMINARY ISSUE	12-07-23
P2	50% ISSUE	17-07-23



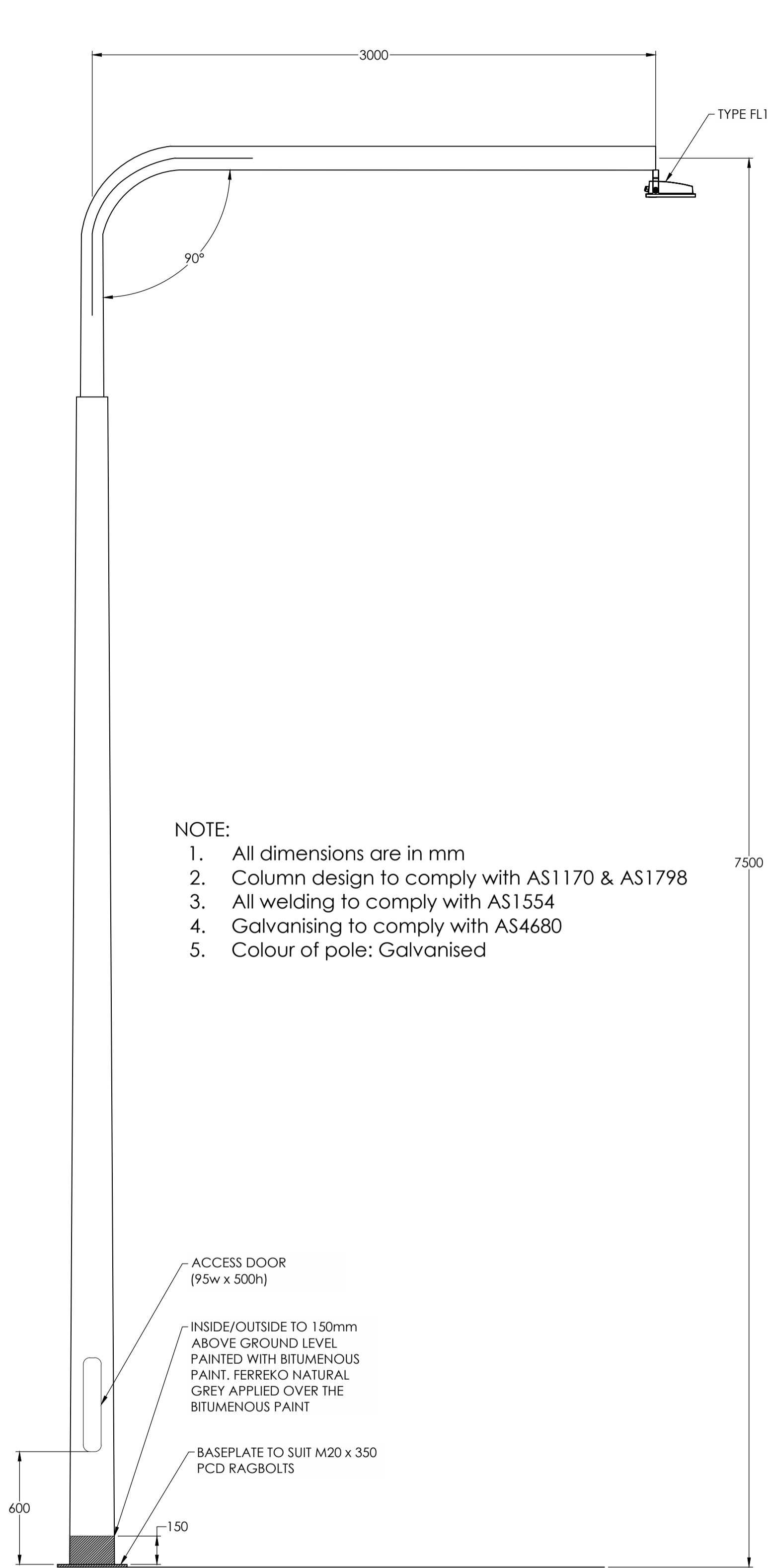
Lead Consultant
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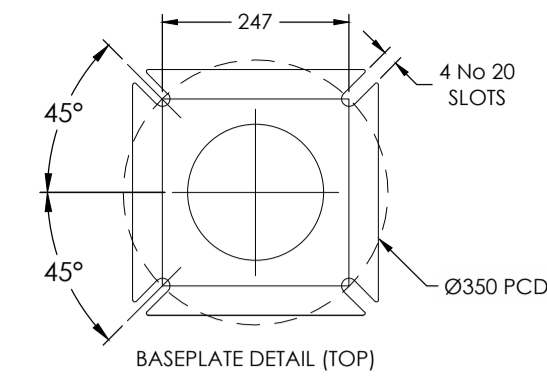
Project	GUNYAMA PARK STAGE 2	Scale	1:50@A1
Drawing	LIGHTING & ELECTRICAL LAYOUT AMENITIES BUILDING	Date	JUN 2023
Drawn MA	Approv. RM	Rev	
Project No	Drawing No		
L177D	EL-102		P2



- NOTE:
1. All dimensions are in mm
 2. Column design to comply with AS1170 & AS1798
 3. All welding to comply with AS1554
 4. Galvanising to comply with AS4680
 5. Colour of pole: Galvanised

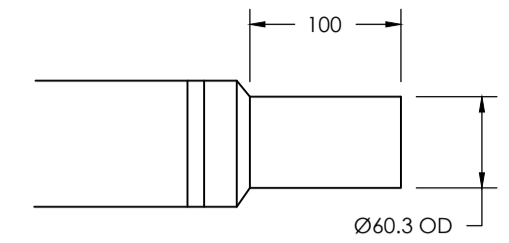


- NOTE:
1. All dimensions are in mm
 2. Column design to comply with AS1170 & AS1798
 3. All welding to comply with AS1554
 4. Galvanising to comply with AS4680
 5. Colour of pole: Galvanised



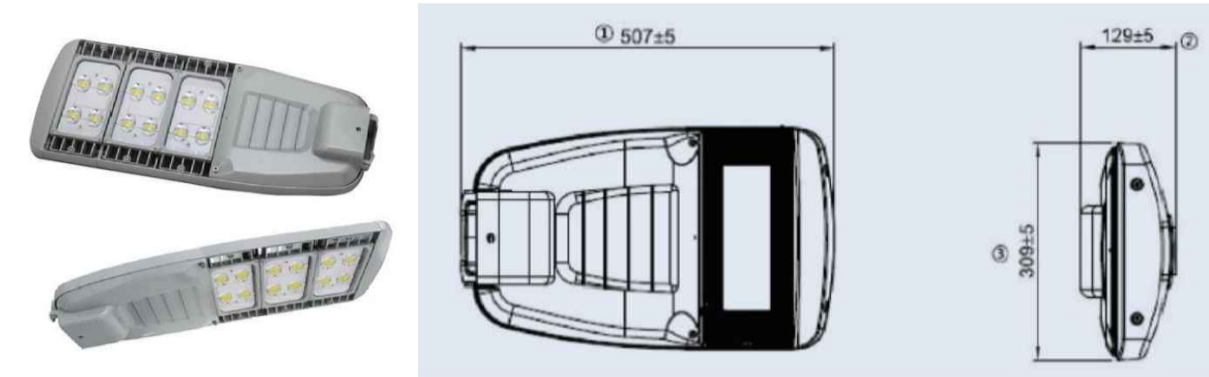
03 BASE PLATE DETAIL - [SL1 & FL1]

1:10@A1



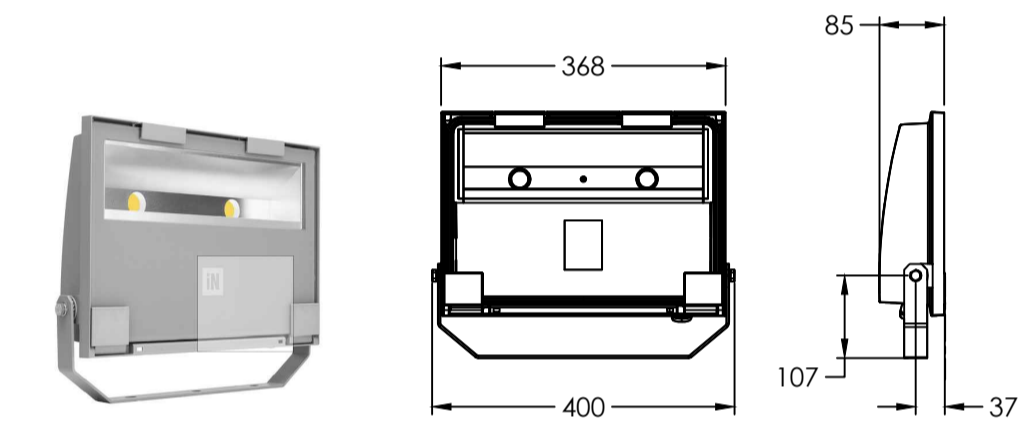
04 SPIGOT DETAIL - [SL1]

1:5@A1



05 INDICATIVE DIMENSIONS [SL1]

N.T.S.@A1



06 LUMINAIRE DETAILS [FL1]

1:10@A1

01 STREET LIGHT POLE - ELEVATION [SL1]

1:20@A1

02 PED CROSSING LIGHT POLE - ELEVATION [FL1]

1:20@A1

Issue	Amendment	Date
P1	PRELIMINARY ISSUE	12-07-23
P2	50% ISSUE	17-07-23

AS SHOWN

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Project GUNYAMA PARK STAGE 2

Drawing LIGHTING DETAILS
SHEET 01

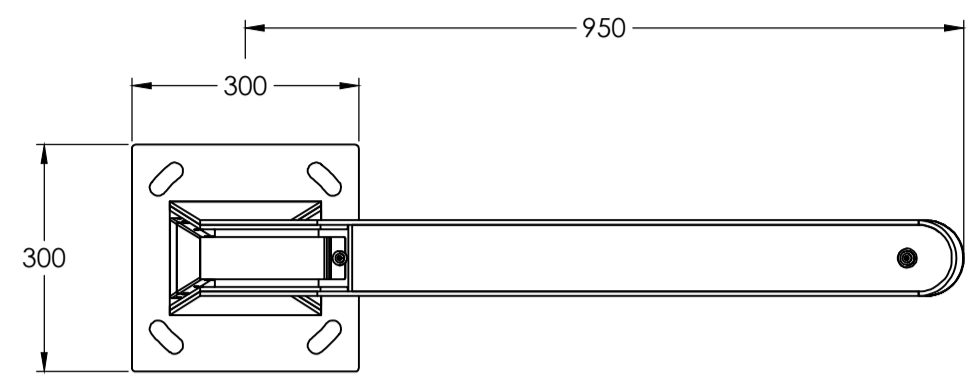
Drawn MA Approved RM Date JUN 2023

Project No Drawing No

L177D EL-201

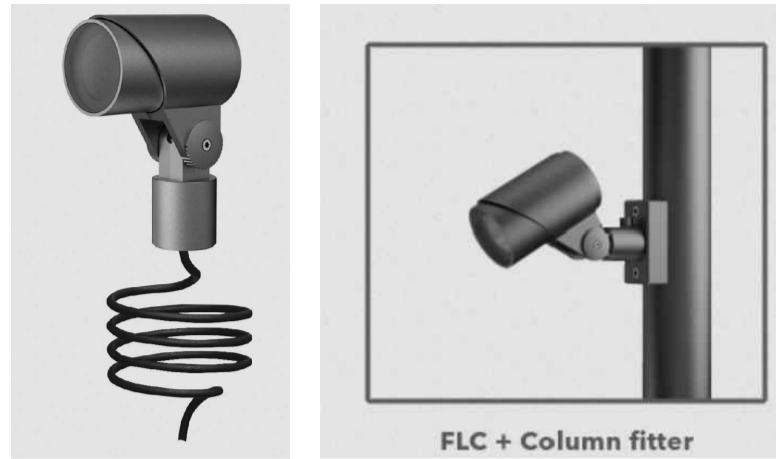
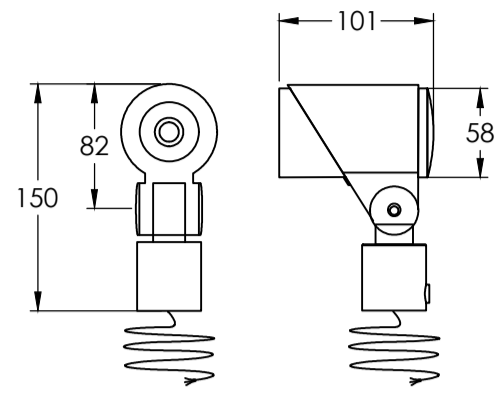
Scale
AS SHOWN
Rev

P2



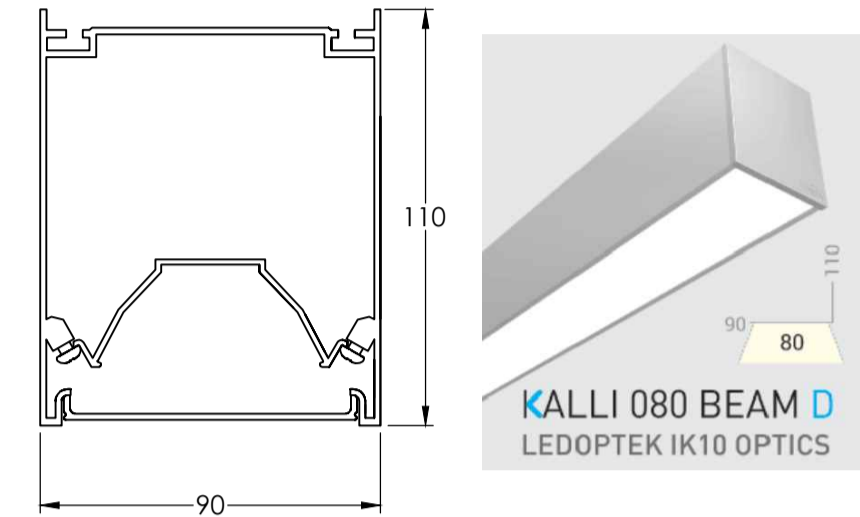
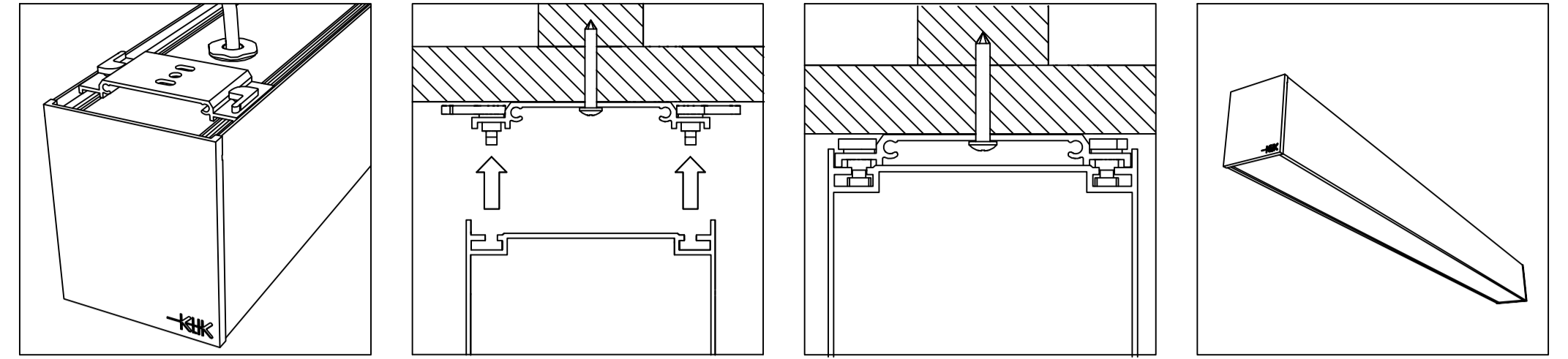
PLAN VIEW PATH LIGHT [A]

1:10@A1



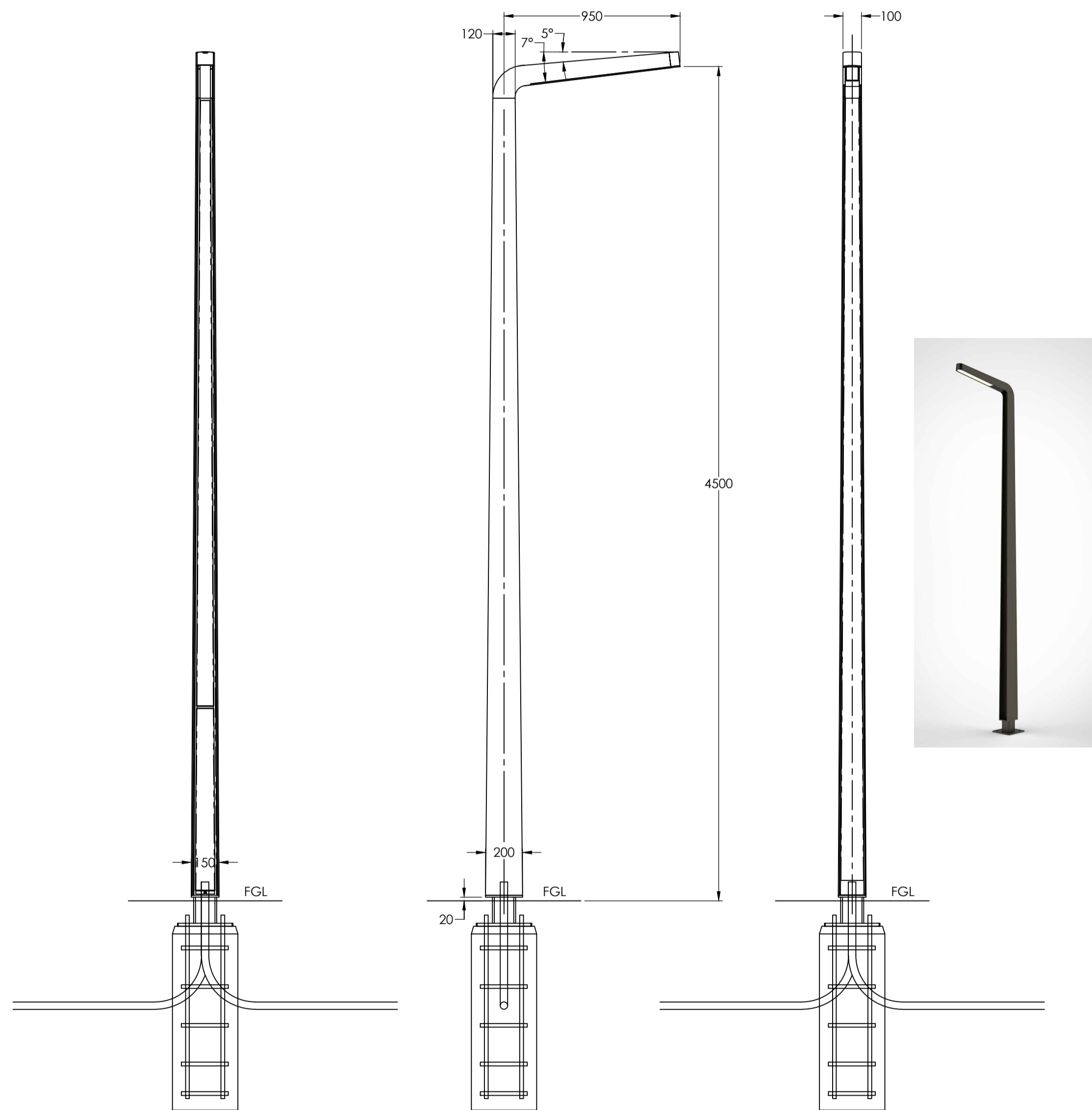
LUMINAIRE DETAILS [SP1]

1:5@A1



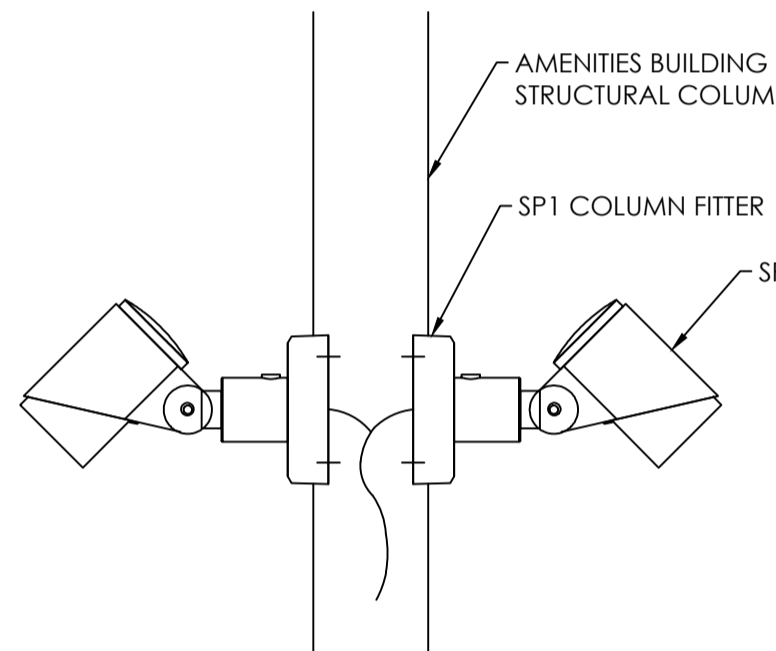
LUMINAIRE DETAILS [LN1 & LN2]

1:2@A1



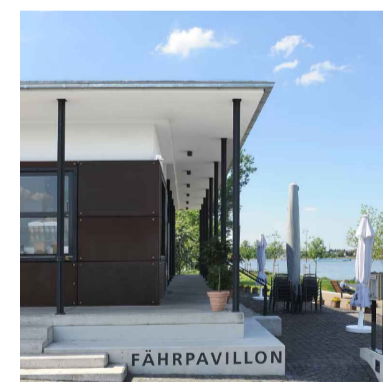
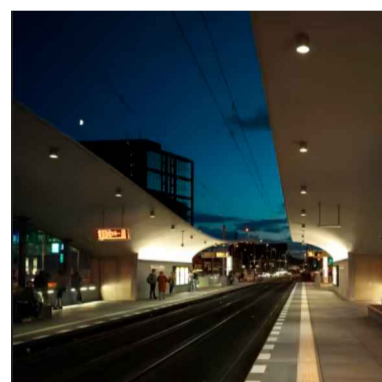
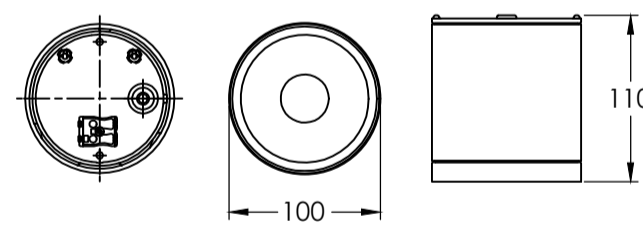
BACK, SIDE & FRONT VIEW - PATH LIGHTING [A]

1:20@A1



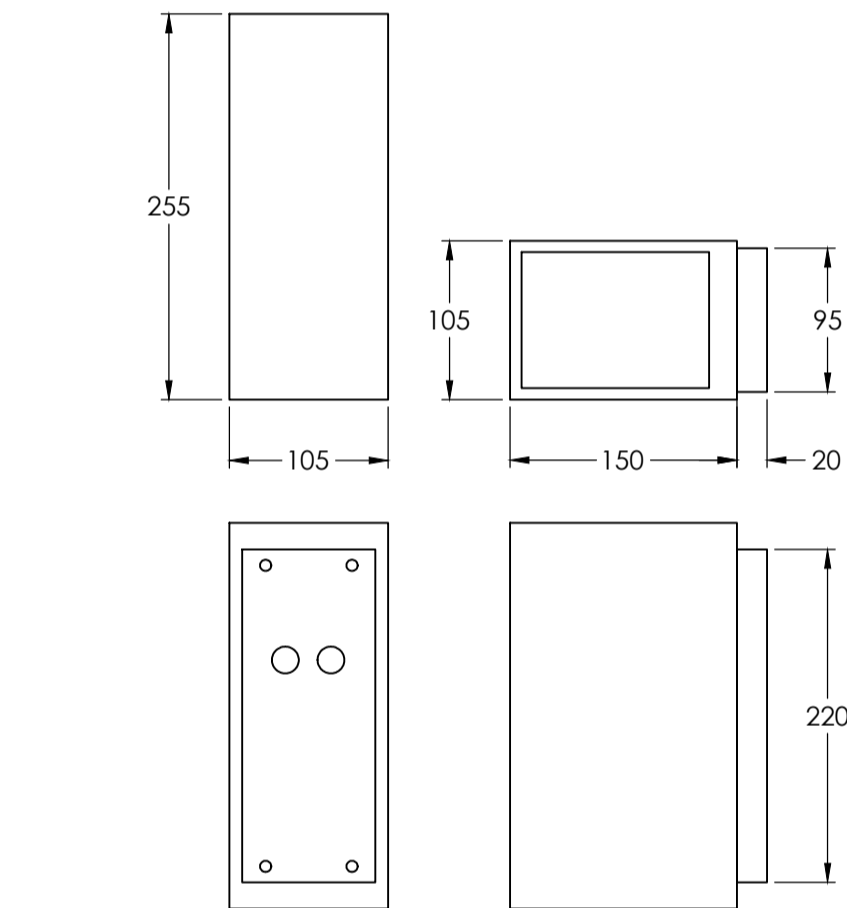
INSTALLATION DETAIL [SP1]

1:5@A1



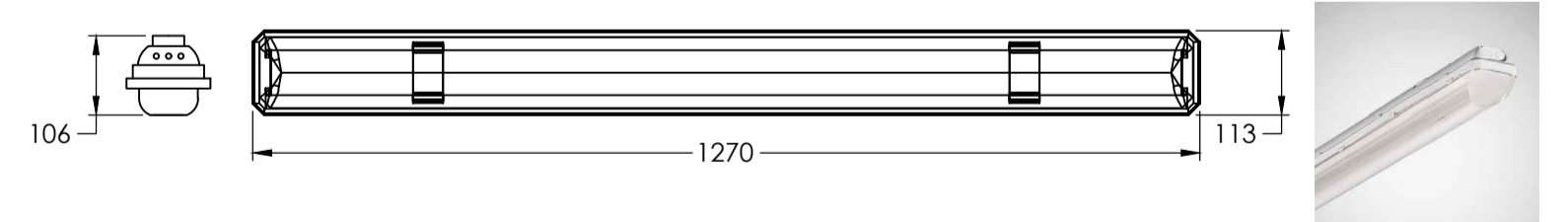
LUMINAIRE DETAILS [DL1]

1:5@A1



LUMINAIRE DETAILS [WL1]

1:5@A1



LUMINAIRE DETAILS [BT1 & BT2]

1:10@A1



Issue	Amendment	Date
P1	PRELIMINARY ISSUE	12-07-23
P2	50% ISSUE	17-07-23

AS SHOWN

Lead Consultant
PLACE DESIGN GROUP
Client
CITY OF SYDNEY

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Project GUNYAMA PARK STAGE 2
Drawing LIGHTING DETAILS
SHEET 02
Drawn MA Date JUN 2023 Scale AS SHOWN
Project No EL-202 Rev
L177D

GUNYAMA PARK - STAGE 2

INTERNALS CIVIL ENGINEERING PACKAGE



LOCALITY PLAN

SOURCE : NEARMAP.COM.AU (©2023)

CIVIL DRAWING SCHEDULE

DWG No.	DRAWING TITLE
C201.01	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
C201.11	SPECIFICATION NOTES
C202.01	SEDIMENT AND SOIL EROSION CONTROL PLAN
C202.11	SEDIMENT AND SOIL EROSION CONTROL DETAILS
C203.01	BULK EARTHWORKS CUT AND FILL PLAN
C204.01	SITEWORKS PLAN
C213.01	DETAILS

THIS DRAWING SET UTILSES A COORDINATE SYSTEM OF GDA94 MGA56. THE SURVEY RECEIVED ON 17/07/2023 WAS CONVERTED TO GDA94 FOR INFORMATION AS IT WAS RECIVED ON THE DATE OF ISSUE.

THE NEXT ISSUE WILL SHOW ALL ITEMS UPDATED TO GDA2020.

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DRAWN: BMAZZA
DESIGNED: E.JACOBS
JOB MANAGER: A.RIVETT
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT
01	ISSUED FOR INFORMATION	BM		AR	10.07.23	CITY OF SYDNEY
02	ISSUED FOR INFORMATION	BM		AR	17.07.23	
03	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	19.07.23	

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SCALE 1:1000 @ A1	

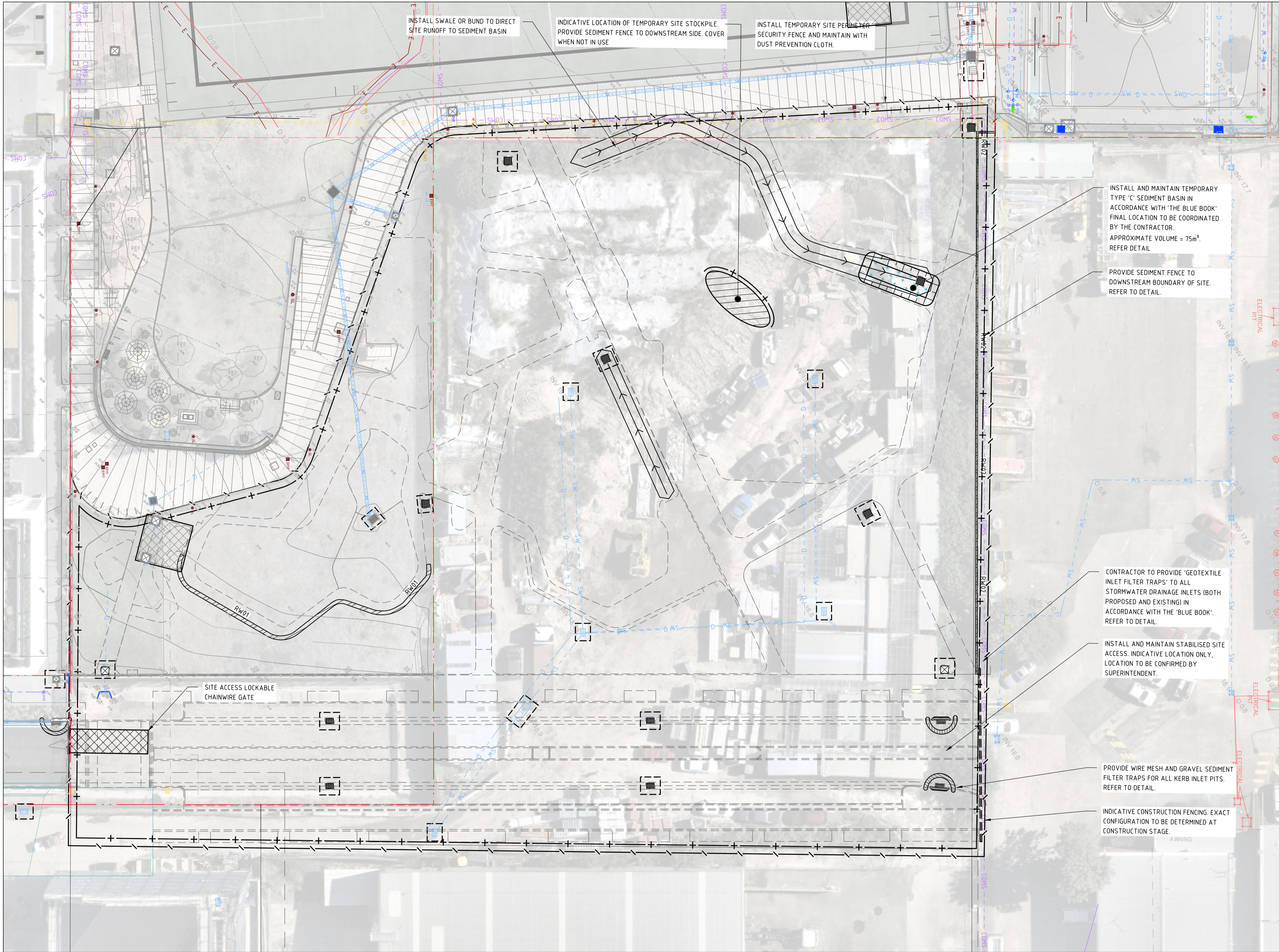
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PROJECT
PROJECT NAME GUNYAMA PARK - STAGE 2

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN

JOB NUMBER	
223309	
DRAWING NUMBER	REVISION
C201.01	03
DRAWING SHEET SIZE = A1	

DRAWN: BMAZZA
DESIGNED: E.JACOBS
JOB MANAGER: A.RIVETT
VERIFIER:



LEGEND	
	PROPOSED BOUNDARY LINE
	EXISTING BOUNDARY LINE
	EASEMENT LINE
	REDUNDANT BOUNDARY LINE
	EXISTING CONTOURS
	SEDIMENT FENCE
	SECURITY FENCE
	WIRE MESH AND GRAVEL SEDIMENT FILTER
	GEOTEXTILE INLET FILTER TRAP
	DRAINAGE SWALE
	STABILISED SITE ACCESS
	STOCKPILE
	SEDIMENT BASIN



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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	BM	AR	10.07.23	
02	ISSUED FOR INFORMATION	BM	AR	17.07.23	
03	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ	AR	19.07.23	

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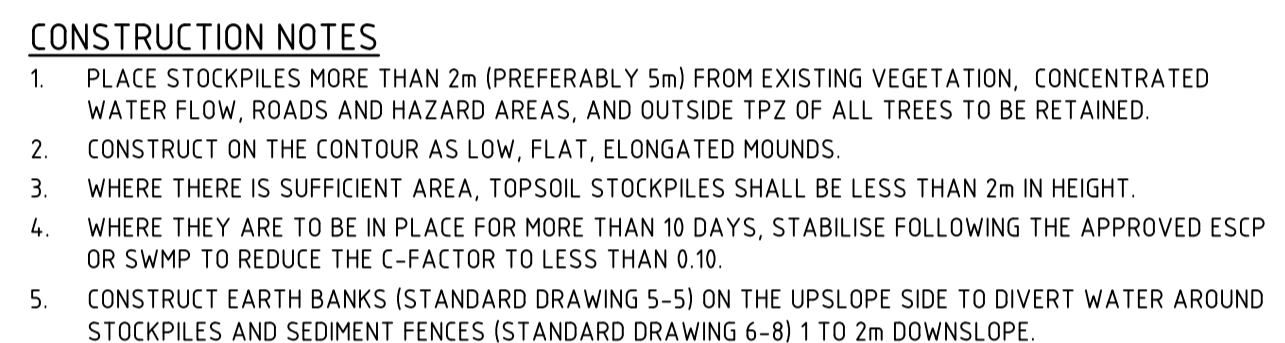
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SCALE 1:250 @ A1	

Sydney
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PROJECT
PROJECT NAME GUNYAMA PARK - STAGE 2

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SEDIMENT AND SOIL EROSION CONTROL PLAN

JOB NUMBER	
223309	
DRAWING NUMBER	REVISION
C202.01	03
DRAWING SHEET SIZE = A1	



The image contains three technical drawings of a star picket fence system:

- Perspective View:** Shows a section of the fence with star-shaped pickets. The area upstream is labeled "DISTURBED AREA" and the downstream area is labeled "UNDISTURBED AREA". An arrow indicates the "DIRECTION OF FLOW".
- SECTION DETAIL:** A cross-sectional view of the fence. It shows a "TRENCH WITH COMPACTED BACKFILL AND ON ROCK, SET INTO SURFACE CONCRETE." The pickets are "15m STAR PICKETS AT MAX 2.5m CENTRES". A "SELF-SUPPORTING GEOTEXTILE" is shown behind the pickets. The height of the pickets is specified as "500 to 600" mm, and the minimum height of the concrete base is "600 MIN". An arrow indicates the "DIRECTION OF FLOW".
- PLAN:** A top-down view of the fence layout. It shows a series of star pickets connected by a line. The maximum distance between pickets is "20m MAX (UNLESS STATED OTHERWISE ON SWMP/ESCP)". The pickets are "STAR PICKETS AT MAX 2.5m CENTRES". A "FLOW" arrow indicates the direction of water. A dimension of "1.5m MIN" is shown for the width of the picket base.

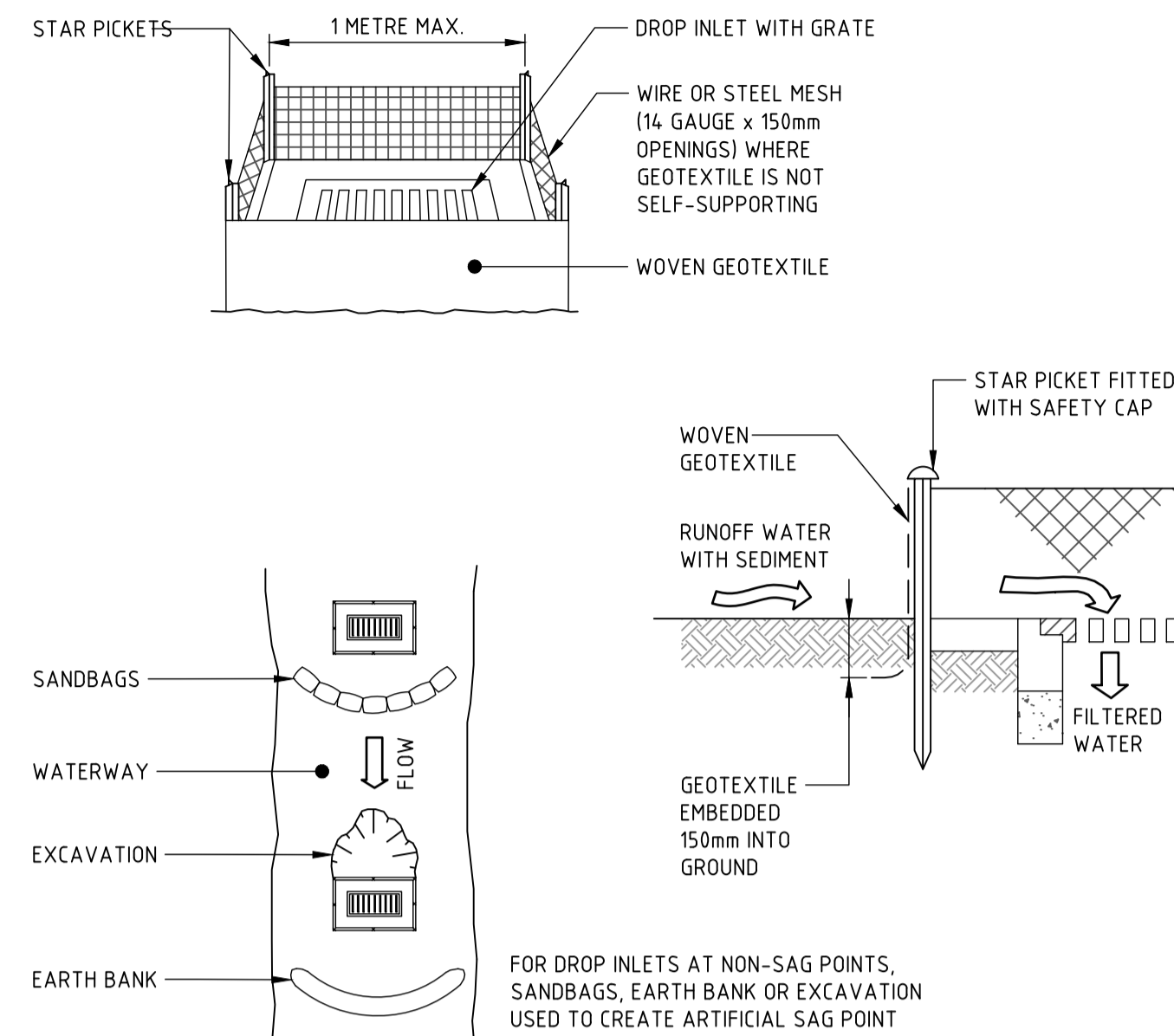
CONSTRUCTION NOTES

1. 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.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 15 METRE LONG STAKE PICKETS INTO GROUND AT 25 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAKE PICKETS ARE FITTED WITH SAFETY CAPS.
4. 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.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

The diagram illustrates a kerb-side inlet for a Storm Water Management Practice (SWMP). It shows a cross-section of a road surface with a kerb. A 'KERB-SIDE INLET' is shown as a rectangular opening in the road. Below the road surface, a 'TIMBER SPACER TO SUIT' is positioned to support a 'GRAVEL-FILLED WIRE MESH OR GEOTEXTILE 'SAUSAGE''. This structure is designed to filter runoff water, which is labeled as 'RUNOFF WATER WITH SEDIMENT'. The water flows through the mesh, and the 'SEDIMENT' is trapped. The 'OVERFLOW' is shown as a channel that carries the 'FILTERED WATER' away from the inlet. The 'TIMBER SPACER TO SUIT' is also shown supporting the 'GRAVEL-FILLED WIRE MESH OR GEOTEXTILE 'SAUSAGE'' in the overflow channel.

CONSTRUCTION NOTES

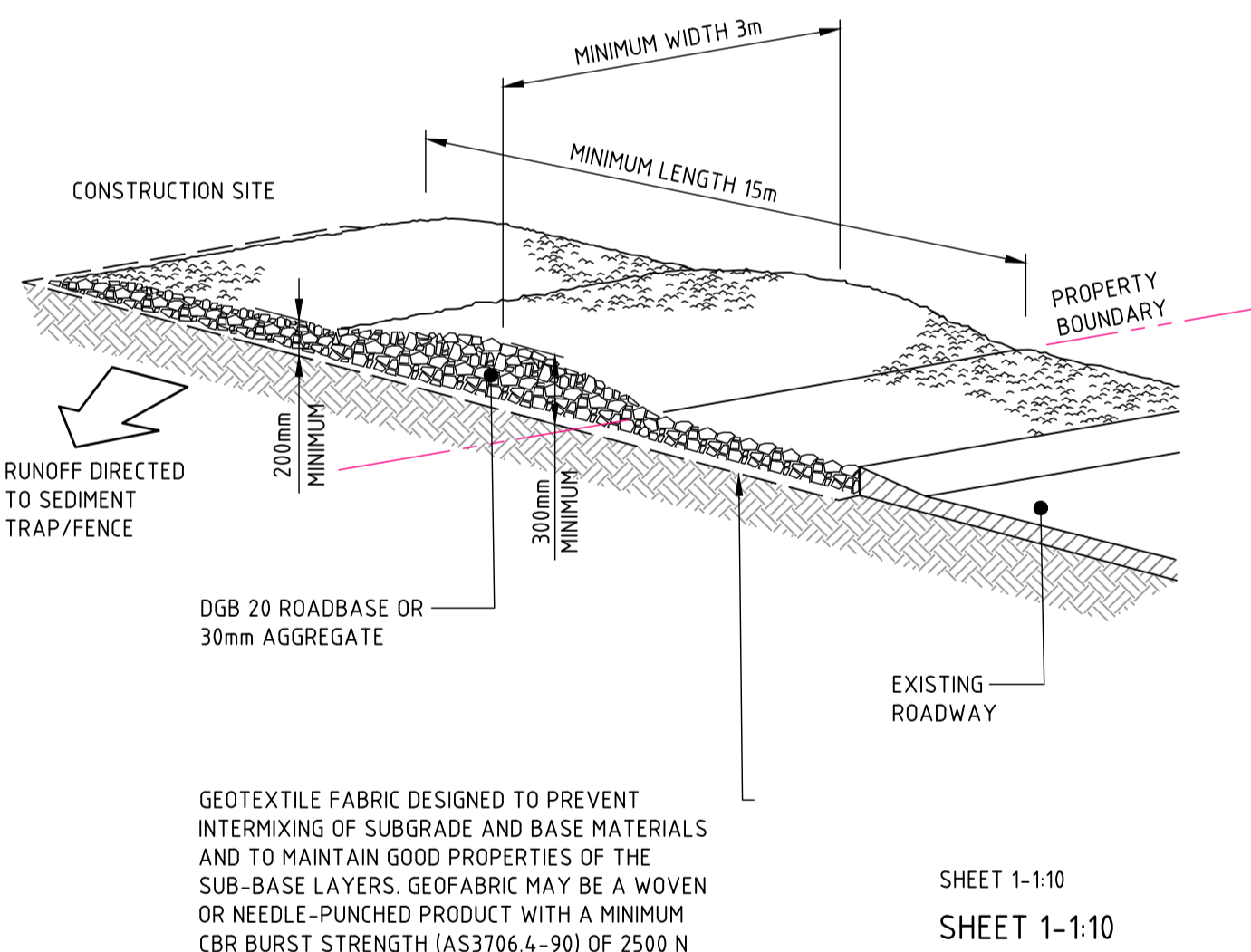
1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET.
5. MAINTAIN THE OPENING WITH SPACER BLOCKS.
6. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
7. 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.



CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

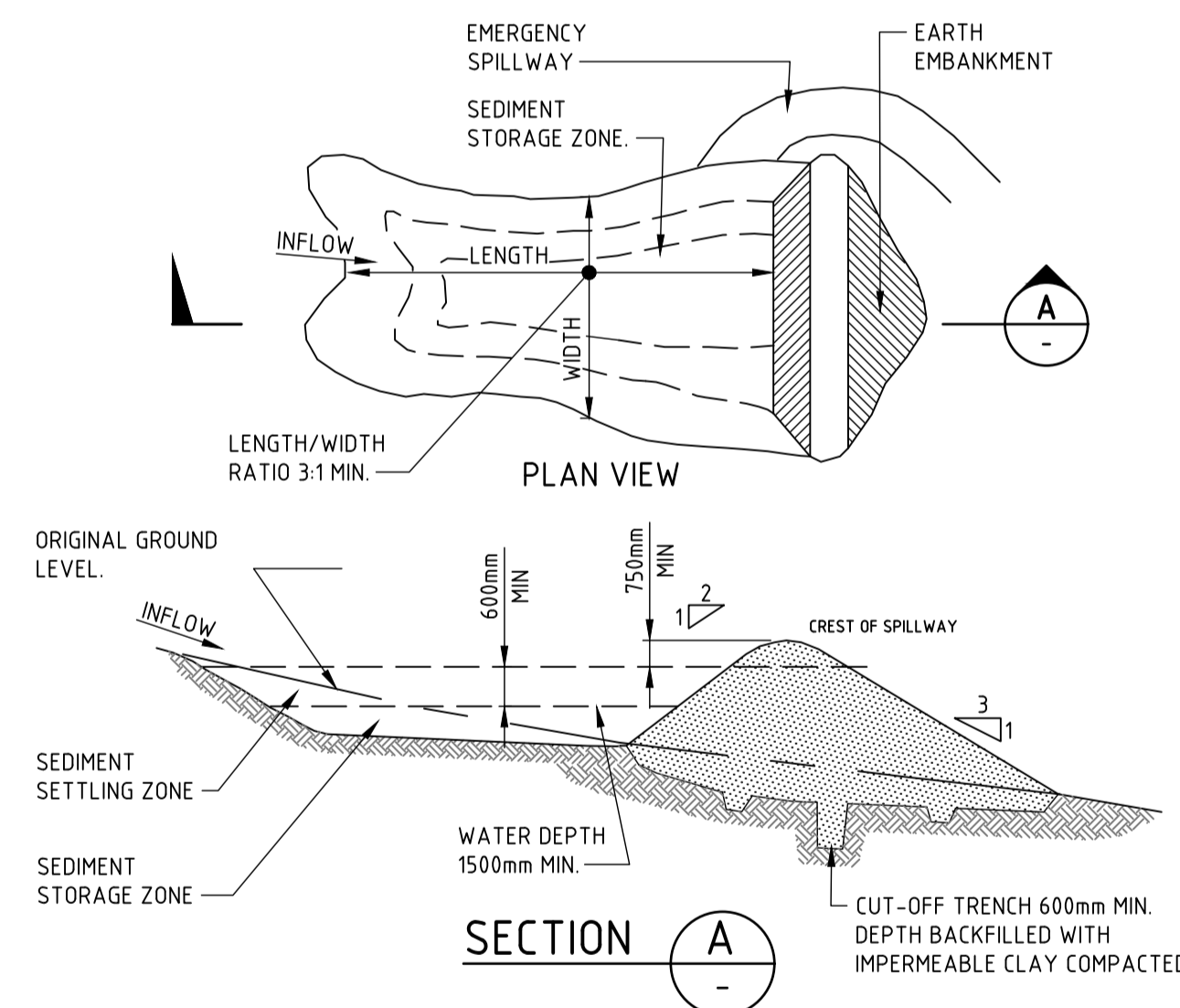
DRAWN: B.MAZZA
DESIGNED: E.JACOBS
JOB MANAGER: A.RIVETT
VERIFIER:



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 ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

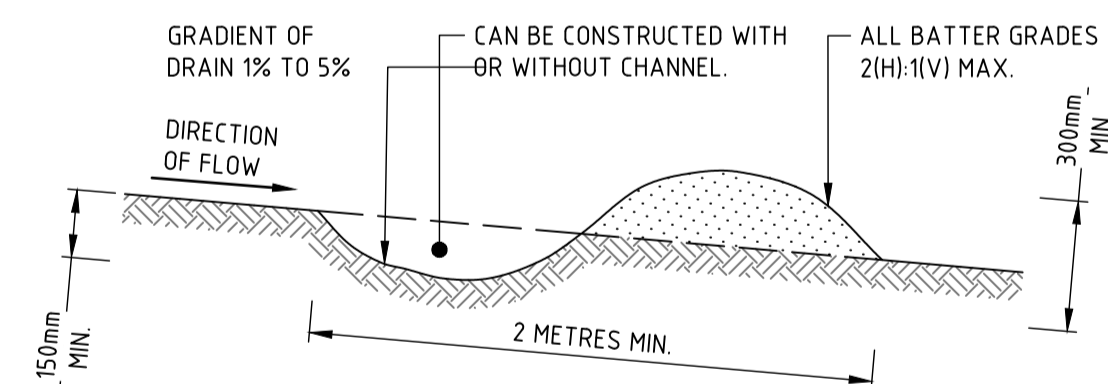
STABILISED SITE ACCESS



CONSTRUCTION NOTES

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. CONSTRUCT THE EMERGENCY SPILLWAY.
8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)
EARTH BASIN - WET





CONSTRUCTION NOTES

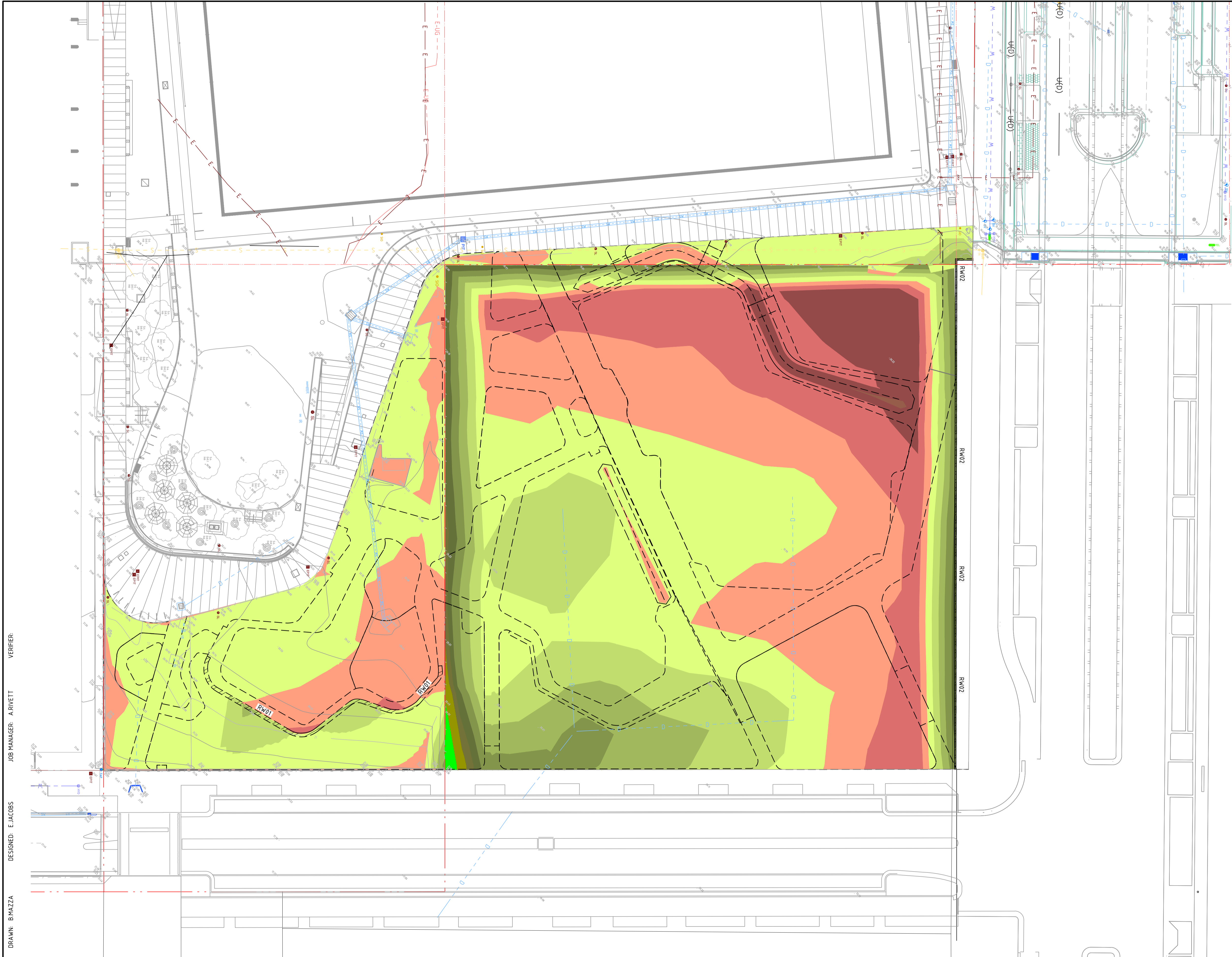
1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

NOTE: ONLY TO BE USED AS TEMPORARY BANK
WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

DRAINAGE SWALE - LOW FLOW

NOT FOR CONSTRUCTION

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									DRAWING NUMBER C202.11	REVISION 03				
										DRAWING SHEET SIZE = A1				
							DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD						



LEGEND

PROPOSED BOUNDARY LINE

EXISTING BOUNDARY LINE

EASEMENT LINE

REDUNDANT BOUNDARY LINE

BEXX.XX

BULK EARTHWORKS SPOT HEIGHT

+ eRLXX.XX

EXISTING SPOT HEIGHT

BEXX.XX

BULK EARTHWORKS PAD LEVEL

XX

DIRECTION OF GRADE

XX XX

BATTERS

XX XX

CONTOURS

SHORING

DEPTH OF CUT

- 999m TO - 2.0m

- 2.0m TO - 1.5m

- 1.5m TO - 1.25m

- 1.25m TO - 1.0m

- 1.0m TO - 0.75m

- 0.75m TO - 0.5m

- 0.5m TO - 0.25m

- 0.25m TO - 0.0m

DEPTH OF FILL

0.0m TO 0.25m

0.25m TO 0.5m

0.5m TO 0.75m

0.75m TO 1.0m

1.0m TO 1.25m

1.25m TO 1.5m

1.5m TO 2.0m

2.0m TO 999m

GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.

2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.

3. CAD FILES / DTM FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).

4. PLAN REPRESENTS THE DIFFERENCE IN HEIGHT BETWEEN THE SURVEY SURFACE AND THE PROPOSED DESIGN SURFACE. IT DOES NOT YET ACCOUNT FOR SITE STRIP, PAVEMENT PROFILES, FOOTING, TRENCHING AND THE LIKE.

5. APPROXIMATE CUT FILL VALUES AS FOLLOWS:

5.1 CUT 560 cu.m

5.2 FILL 1240 cu.m

5.3 BALANCE 680 cu.m IMPORT

5.4 NOTE: SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN ABOVE CALCULATIONS.

DRAWN: B.MAZZA
DESIGNED: E.JACOBS
JOB MANAGER: A.RIVETT
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
01	ISSUED FOR INFORMATION	BM		AR	10.07.23
02	ISSUED FOR INFORMATION	BM		AR	17.07.23
03	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	19.07.23

CITY OF SYDNEY

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ARCHITECT

place design group.

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SCALE 1:250@A1

0

2

4

6

8

10

12m

NORTHROP

Sydney

Level 11 345 George Street, Sydney NSW 2000

Ph (02) 9241 4188 Fax (02) 9241 4324

Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

PROJECT NAME
GUNYAMA PARK - STAGE 2

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

BULK EARTHWORKS CUT AND FILL PLAN

JOB NUMBER

223309

DRAWING NUMBER

C203.01

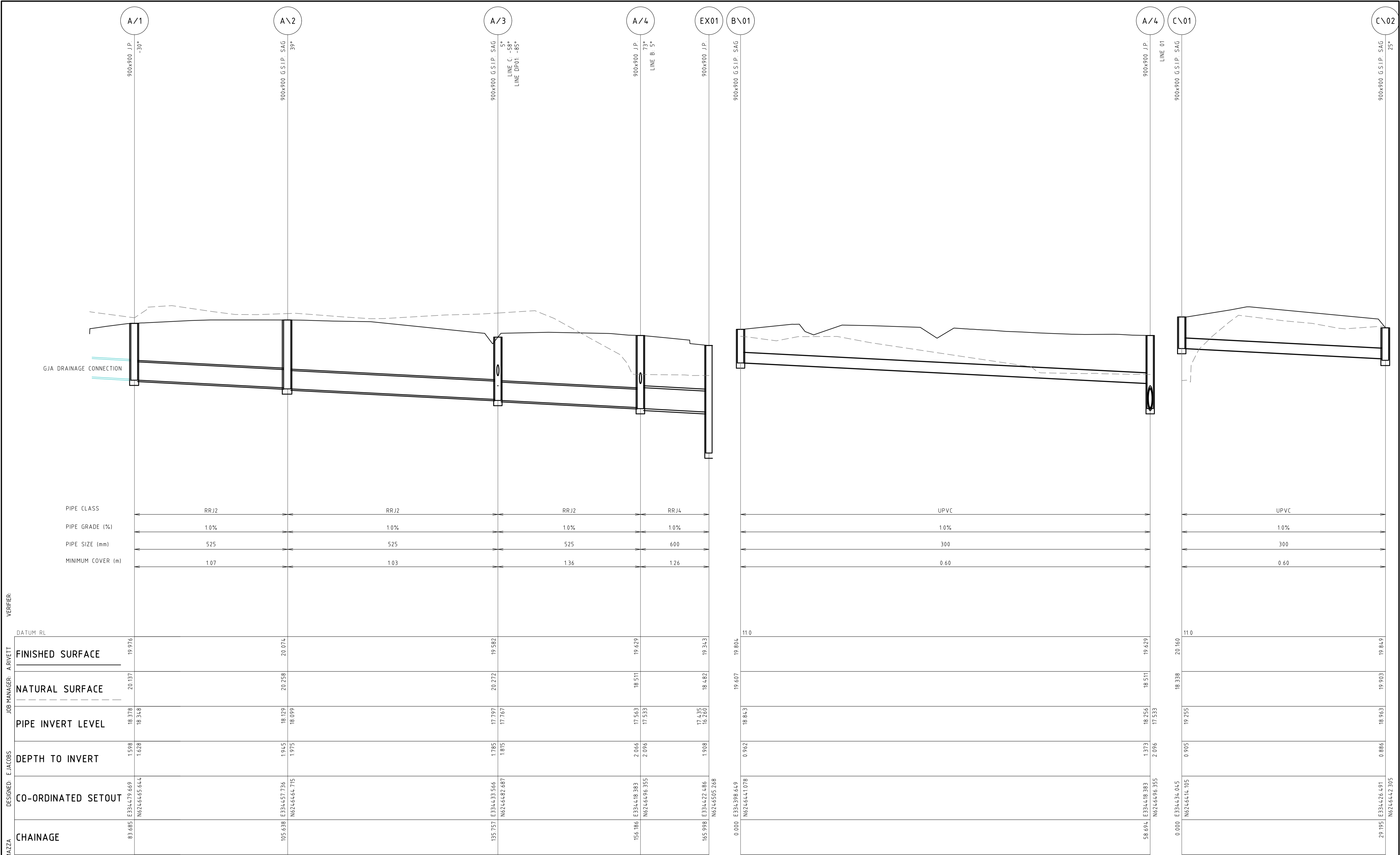
REVISION

03

DRAWING SHEET SIZE = A1

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FILENAME: I:\GIS\PROJECTS\2022\223309-GUNYAMA PARK - STAGE 2\223309-CIVIL-CAD\DWG\223309-C203.01.dwg



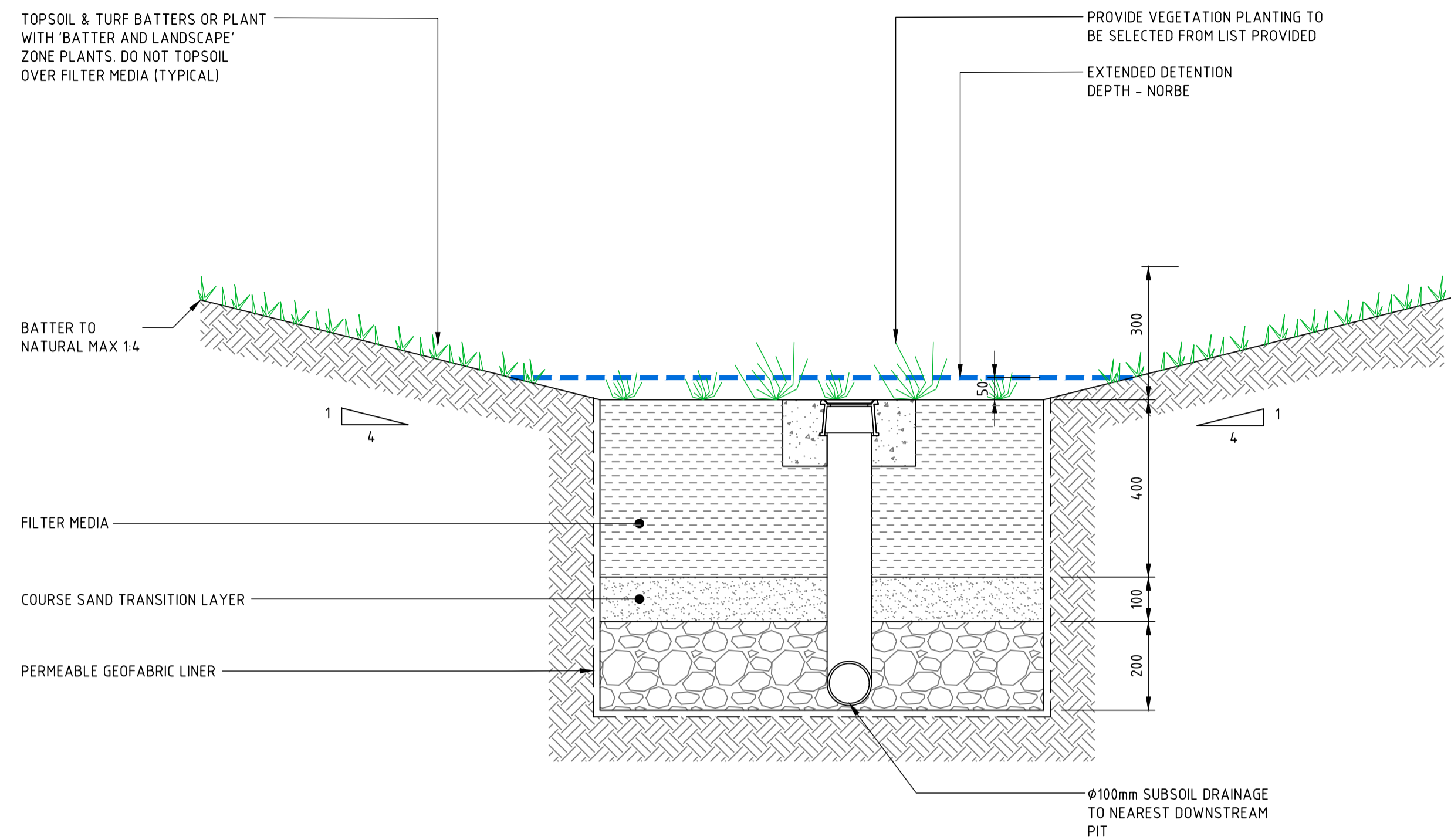
LINE A

LINE B

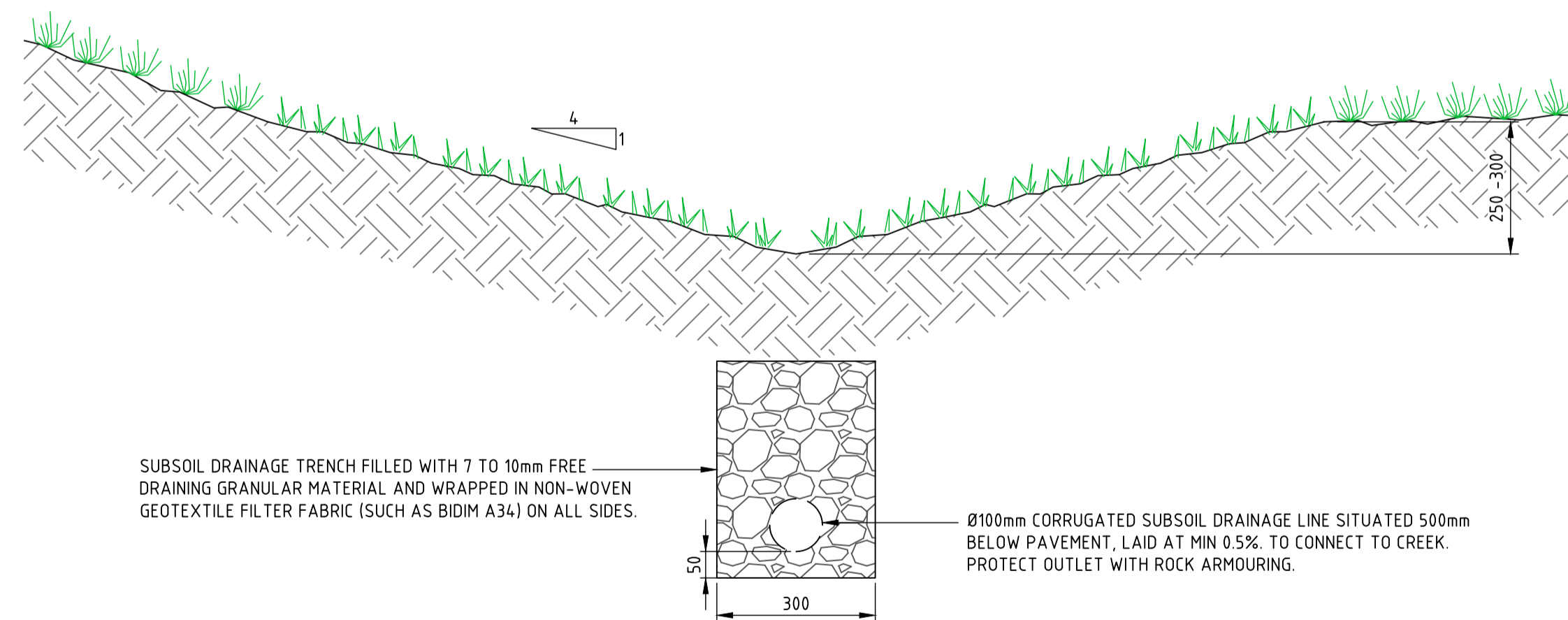
LINE C

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REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER
01	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	19.07.23	<div>CITY OF SYDNEY</div>	<div>place design group.</div>	<div>PROJECT NAME GUNYAMA PARK - STAGE 2</div>	<div>CIVIL ENGINEERING PACKAGE STORMWATER LONGITUDINAL SECTIONS</div>	<div>223309</div>
						<div>DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED</div>	<div>THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD</div>	<div><div>NORTHROP</div><div>Sydney</div><div>Level 11 345 George Street, Sydney NSW 2000</div><div>Ph (02) 9241 4188 Fax (02) 9241 4324</div><div>Email sydney@northrop.com.au ABN 81 094 433 100</div></div>		<div>DRAWING NUMBER C205.11</div>
										<div>REVISION 01</div>
										<div>DRAWING SHEET SIZE = A1</div>






TYPICAL BIORETENTION SWALE DETAIL



TYPICAL GRASS SWALE

NOT FOR CONSTRUCTION

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01	ISSUED FOR INFORMATION	BM		AR	10.07.23				Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100	PROJECT PROJECT NAME GUNYAMA PARK - STAGE 2	CIVIL ENGINEERING PACKAGE DETAILS	223309	
02	ISSUED FOR INFORMATION	BM		AR	17.07.23							DRAWING NUMBER	REVISION
03	ISSUED FOR 50% DESIGN DEVELOPMENT	EJ		AR	19.07.23							C213.01	03
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DESIGNED: E.JACOBS
JOB MANAGER: A.RIVETT
VERIFIER:

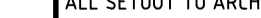



Format: X:\ns\1818\proj\stage2\223309\223309.dwg - Gunyama Park - Stage 2 - CIVIL - CAD - Drawing Set - 223309 - C213.01.dwg

HYDRAULIC SERVICES



DRAWING No.	DRAWING TITLE
HY-00	COVERSHEET AND DRAWING SCHEDULE
HY-01	LEGEND OF SYMBOLS AND NOTES
HY-02	SITE PLAN - HYDRAULIC SERVICES
HY-03	GROUND FLOOR - DRAINAGE SERVICES
HY-04	GROUND FLOOR - PRESSURE SERVICES

DRAWN: E.BLUES
DESIGNED: E. BLUES
JOB MANAGER: G. LUKIC
VERIFIER: G. LUKIC

REV	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT			PROJECT	DRAWING TITLE	JOB NUMBER	
1	PRELIMINARY ISSUE	E.B		G.L	18.07.23				ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH ARCHITECT AND BUILDER BEFORE COMMENCING SHOP DRAWINGS OR SITE WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.	 Sydney Level 11, 345 George St, Sydney NSW 2000 T (02) 9241 4188 P.O. Box H171 Australia Square, NSW 1215 sydney@northrop.com.au ABN 81 094 433 100 Email	GUNYAMA PARK	HYDRAULIC SERVICES	SY223309
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						DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS CONSULTING ENGINEERS PTY LTD	THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD					DRAWING SHEET SIZE = A1	

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ALL PROPOSED HYDRAULIC SERVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT ONLY.

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REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATION FOR SET-OUT AND COORDINATION OF HYDRAULIC POINTS WITH FIXTURES AS NOTED IN THE FIXTURE SCHEDULE.

ALL PROPRIETARY ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS OR RECOMMENDATIONS. ANY PRODUCTS SPECIFIED OR USED ARE TO BE VERIFIED BY THE CONTRACTOR AS BEING SAFE AND APPROPRIATE FOR USE. NORTHPROP DOES NOT TAKE ANY RESPONSIBILITY FOR THE PROVISION OF BANNED BUILDING PRODUCTS AS DEFINED BY NSW BUILDING PRODUCTS (SAFETY) ACT 2017.

COORDINATE ALL HYDRAULIC PIPEWORK WITH PROPOSED STRUCTURES AND SERVICES ON SITE PRIOR TO INSTALLATION

ALL PLUMBING FIXTURES TO BE LOCATED IN AREAS THAT WILL REDUCE THE LIKELY HOOD OF TAMPERING AND VANDALISM.



REV	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT	PROJECT		DRAWING TITLE	JOB NUMBER		
1	PRELIMINARY ISSUE	E.B		GL	11.07.23			 <p>Sydney Level 11, 345 George St, Sydney NSW 2000 T (02) 9241 4188 P.O. Box H171 Australia Square, NSW 1215 sydney@northrop.com.au ABN 81 094 433 100</p>	GUNYAMA PARK	HYDRAULIC SERVICES	SY223309		
												DRAWING NUMBER	REVISION
												HY-02	1
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COORDINATE ALL HYDRAULIC PIPEWORK WITH PROPOSED STRUCTURES AND SERVICES ON SITE PRIOR TO INSTALLATION

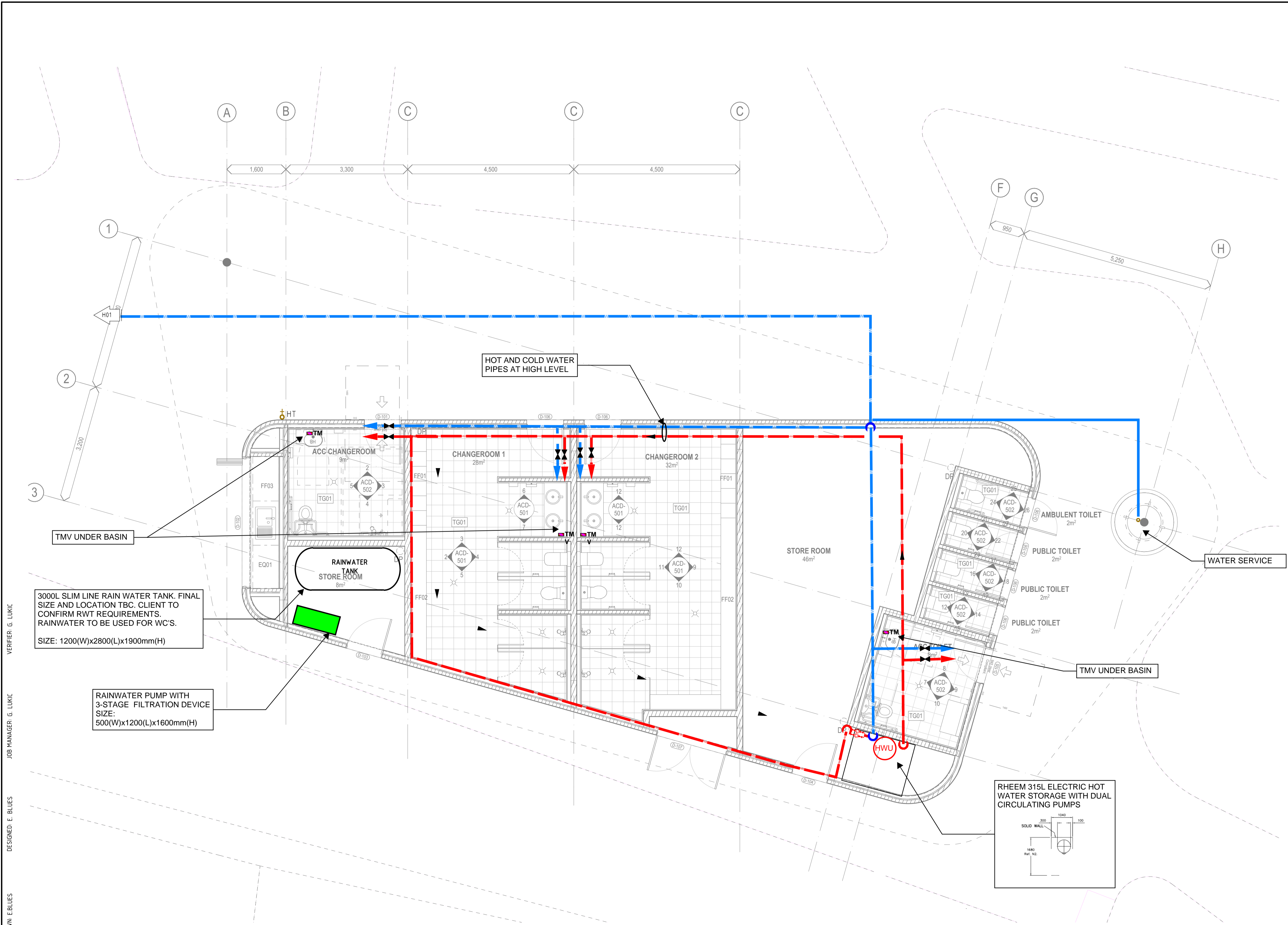
ALL PLUMBING FIXTURES TO BE LOCATED IN AREAS THAT WILL REDUCE THE LIKELY HOOD OF TAMPERING AND VANDALISM.



REV	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT		PROJECT	DRAWING TITLE	JOB NUMBER
1	PRELIMINARY ISSUE	E.B		G.L	11.07.23	CITY OF SYDNEY	place design group.	ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH ARCHITECT AND BUILDER BEFORE COMMENCING SHOP DRAWINGS OR SITE WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.	NORTHROP Sydney Level 11, 345 George St, Sydney NSW 2000 T (02) 9241 4188 P.O. Box H171 Australia Square, NSW 1215 Email sydney@northrop.com.au ABN 81 094 433 100	GUNYAMA PARK HYDRAULIC SERVICES DRAINAGE SERVICES	SY223309
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3. EXISTING SERVICES HAVE BEEN PLOTTED FROM DATA SUPPLIED BY OTHER PARTIES. NORTHROP CONSULTING ENGINEERS DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION AND DEPTH OF EXISTING SERVICES AND REPORT ANY DISCREPANCIES TO THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY WORKS.
4. ALL PROPOSED HYDRAULIC SERVICES INDICATED ON THIS DRAWING ARE DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT ONLY.
5. FLOORS, WALLS AND BEAMS SHALL BE CORED AND / OR SAW CUT AND RE-INSTATED IN A METHOD APPROVED BY THE STRUCTURAL ENGINEER. ALL PENETRATIONS TO BE SEALED WITH APPROVED FIRE RATED MATERIAL AND/OR FITTING WHERE REQUIRED TO MAINTAIN THE REQUIRED F.R.I. ALL FINAL CORE LOCATIONS ARE TO BE COORDINATED WITH THE STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS (TYPICAL).
6. REFER TO ARCHITECT'S DRAWINGS AND SPECIFICATION FOR SET-OUT AND COORDINATION OF HYDRAULIC POINTS WITH FIXTURES AS NOTED IN THE FIXTURE SCHEDULE.
7. ALL PROPRIETARY ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS OR RECOMMENDATIONS. ANY PRODUCTS SPECIFIED OR USED ARE TO BE VERIFIED BY THE CONTRACTOR AS BEING SAFE AND APPROPRIATE FOR USE. NORTHROP DOES NOT TAKE ANY RESPONSIBILITY FOR THE PROVISION OF BANNED BUILDING PRODUCTS AS DEFINED BY NSW BUILDING PRODUCTS (SAFETY) ACT 2017.
8. COORDINATE ALL HYDRAULIC PIPEWORK WITH PROPOSED STRUCTURES AND SERVICES ON SITE PRIOR TO INSTALLATION
9. ALL PLUMBING FIXTURES TO BE LOCATED IN AREAS THAT WILL REDUCE THE LIKELY HOOD OF TAMPERING AND VANDALISM.



NOT FOR CONSTRUCTION

REV	DESCRIPTION	ISSUED	VERD	APP'D	DATE	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE	JOB NUMBER
1	PRELIMINARY ISSUE	E.B		G.L	11.07.23	CITY OF SYDNEY	place design group.	GUNYAMA PARK	HYDRAULIC SERVICES PRESSURE SERVICES	SY223309
										DRAWING NUMBER HY-04
										REVISION 1
										DRAWING SHEET SIZE = A1

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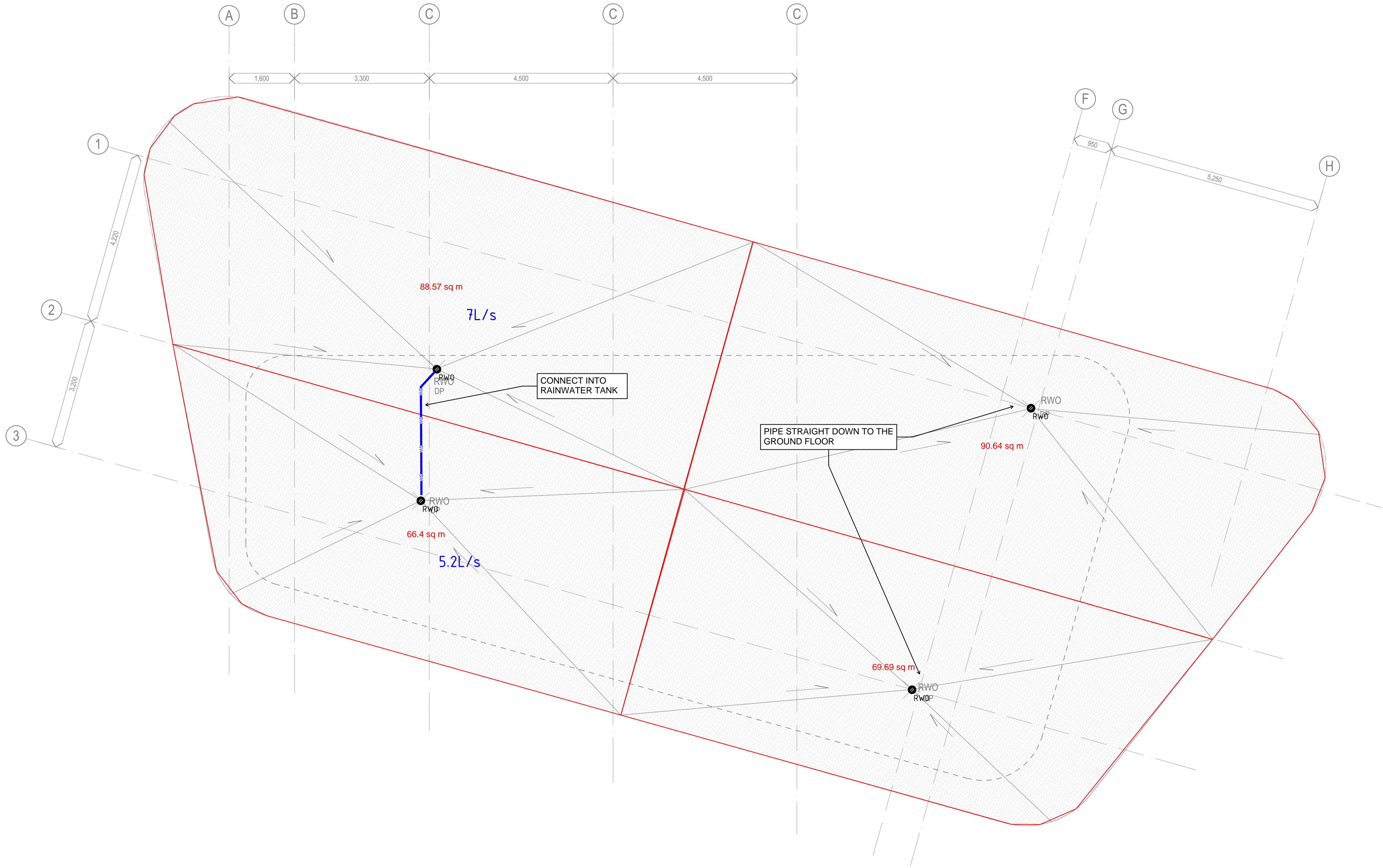
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VERIFIER: G. LUKIC
JOB MANAGER: G. LUKIC
DESIGNED: E. BLUES
DRAWN: E. BLUES



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REV	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	CLIENT	ARCHITECT		PROJECT	DRAWING TITLE	JOB NUMBER
1	PRELIMINARY ISSUE	E.B		G.L	11.07.23	<div>CITY OF SYDNEY</div>	<div>place design group.</div>	<div>ALL SETOUT TO ARCHITECT'S DRAWINGS. DIMENSIONS TO BE VERIFIED WITH ARCHITECT AND BUILDER BEFORE COMMENCING SHOP DRAWINGS OR SITE WORK. NORTHROP ACCEPTS NO RESPONSIBILITY FOR THE USABILITY, COMPLETENESS OR SCALE OF DRAWINGS TRANSFERRED ELECTRONICALLY.</div>	<div>GUNYAMA PARK</div>	<div>HYDRAULIC SERVICES</div>	<div>SY223309</div>
								<div>1:50 @A1</div>		<div>ROOF PLAN</div>	<div>DRAWING NUMBER</div>
											<div>HY-05</div>
											<div>1</div>
											<div>DRAWING SHEET SIZE = A1</div>

VERIFIER: XX

JOB MANAGER: BP

DESIGNED: BP

DRAWN: BP

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CHEMICAL ANCHORS

- CA01.** UNLESS NOTED OTHERWISE, CHEMICAL ANCHORS SPECIFIED IN THESE DRAWINGS REFER TO HILTI HIT-HY 200 + HIT-V CHEMICAL INJECTION ANCHORS.
- CA02.** ALTERNATIVE CHEMICAL ANCHORS MAY BE SUBSTITUTED WITH PRIOR PERMISSION FROM THE SUPERINTENDENT.
- CA03.** MINIMUM EDGE DISTANCE AND SPACING SETOUT OF THE ANCHORS ARE SPECIFIED ON THESE DRAWINGS. IF THE INSTALLED DISTANCES ARE LESS THAN THAT SPECIFIED NOTIFY THE SUPERINTENDENT FOR INSTRUCTION.
- CA04.** CHEMICAL ANCHORS ARE TO BE STIRCTLY INSTALLED TO MANUFACTURERS INSTALLATION PROCEDURE.
- CA05.** DIAMETER OF HOLES TO MANUFACTURES SPECIFICATION FOR NOMINATED BOLT/BAR DIAMETER. DRILL HOLES USING A ROTARY PERCUSSION DRILL. DO NOT CORE DRILL HOLES.
- CA06.** CLEAN AND DEGREASE BOLT/BARS PRIOR INSTALLATION.
- CA07.** ENSURE CHEMICAL IS ALLOWED TO FULLY CURE IN ACCORDANCE WITH MANUFACTURE'S DETAILS PRIOR TO LOADING BOLTS/BARS.

TESTING REGIME FOR THE HILTI HIT-HY 200 AND HIT-V CHEMICAL INJECTION ANCHORS

- TR01. HOLD DOWN ANCHORS:**
- TEST MIN. 1 ANCHOR PER BASE PLATE.
 - SHOULD THERE BE A FAILURE, ALL ANCHORS NEED TO BE TESTED FOR THAT BASE PLATE.
- TEST LOADING IS AS FOLLOWS:**
- M20 BOLTS-37kN
- THIS IS BASED ON AN 80% OF ULTIMATE CAPACITY OF THE BOLT. CARE SHOULD BE TAKEN NOT TO EXCEED THIS LOAD.

CONCRETE MASONRY

- CM1.** MASONRY CONSTRUCTION IS TO CONFORM TO AS3700-2011.
- MORTAR CLASSIFICATION = M3
 - DURABILITY CLASSIFICATION OF BUILT IN COMPONENTS = R1
 - DURABILITY GRADE OF EXTERNAL MASONRY UNITS = PROTECTED
- CM2.** THE CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH OF THE MASONRY UNITS SHALL BE 15MPa OR GREATER.
- CM3.** BED UNITS IN FRESHLY PREPARED MORTAR, UNIFORMLY MIXED CEMENT, LIME AND SAND IN THE RATIO OF 1:16 or 1:0.5 CONFORMING TO AS3700-2011.
- CM4.** GROUT FILL FOR BLOCKWORK:
- COMPRESSIVE STRENGTH = N20MPa
 - MAXIMUM AGGREGATE SIZE = 10mm
 - SLUMP = 225mm
 - MINIMUM PORTLAND CEMENT CONTENT = 300kg/m³
 - COMPACT THE GROUT USING A MECHANICAL VIBRATOR AT CONTROL OR CONSTRUCTION JOINTS IN SLABS
- CM7.** CONTROL JOINTS IN REINFORCED WALLS SHALL BE PROVIDED AT 12.0m CENTRES, PROVIDE R16-400 (600 LONG) DOWELS, PAINT ONE END WITH BITUMEN & PROVIDED EXPANSION CAP.
- CM8.** THE BOTTOM COURSE OF ALL REINFORCED BLOCKWORK SHALL CONSIST OF E-SHAPED BLOCKS TO ENABLE CLEANOUT AND TYING OF STEEL.
- FULLY BED FACE SHELLS ONLY.
 - CLEAN OUT ALL CORES AFTER EACH DAY'S LAYING.
 - ENSURE STARTER BARS ARE CORRECTLY LOCATED IN FOOTINGS.
- CM9.** MASONRY TIES SHALL BE HOT DIP GALVANISED WITH MINIMUM COATING MASS OF 300g/m² AND MEDIUM DUTY CLASSIFICATION FOR CAVITIES UP TO 60mm WIDE & HEAVY DUTY FOR CAVITIES OVER 60mm WIDE. ANY FACE FIXED TIES SHALL BE FIXED USING A SCREW FIXING AND SHALL NOT BE NAILED.
- CM10.** THE TOP COURSE OF ALL FREESTANDING HOLLOW BLOCK MASONRY SHALL CONSIST OF SOLID CAPPING BLOCKS.
- CM11.** SPACING OF MASONRY TIES:
- ADJACENT TO WINDOWS AND RETURN WALLS = 400mm VERTICAL AND HORIZONTAL.
 - SOLID MASONRY = 400mm VERTICAL AND HORIZONTAL
 - OTHERWISE = 800mm VERTICAL AND HORIZONTAL
- CM12.** NON-LOADBEARING HOLLOW BLOCK WALLS SHALL FINISH 20mm SHORT OF SLAB SOFFIT AND SHALL BE FASTENED TO THE SOFFIT USING M.E.T - 4 SLIDING TIES OR APPROVED EQUIVALENT AT 400mm CENTRES U.N.O.
- CM13.** LOADBEARING HOLLOW BLOCK WALLS SHALL BE CAPPED WITH M.E.T. GRAPHITE GREASED SLIP JOINT OVER TOP COURSE OF BLOCKWORK.
- CM14.** WHERE MASONRY IS BUILT INTO STRUCTURAL STEEL OR PASSES A RETURN WALL ON THE INNER SKIN, INSTALL MEDIUM DUTY TIES @ 400 MAXIMUM CT. SHOT FIX TIES TO STEELWORK.
- CM15.** MINIMUM COVER TO REINFORCEMENT FROM THE INSIDE FACE OF THE FACE SHELL IS TO BE 25mm.
- CM16.** NO AIR ENTRAINING AGENTS (BYCOL, ETC.) ARE TO BE USED WITHOUT PRIOR WRITTEN PERMISSION FROM NORTHROP CONSULTING ENGINEERS.
- CM17.** MATERIALS INCLUDING MORTAR, CONCRETE, GROUT SHALL COMPLY WITH SECTION 10 OF AS3700-2001. MASONRY UNITS SHALL COMPLY WITH AS/NZS 4455.1-2008. WALL TIES SHALL COMPLY WITH AS/NZS 2699.1-2000.
- CM18.** MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 11 OF AS3700-2011.
- CM19.** DO NOT CONSTRUCT UNREINFORCED OR NON-LOAD BEARING REINFORCED MASONRY WALLS ON SUSPENDED CONCRETE SLABS UNTIL SLAB HAS BEEN STRIPPED AND DE-PROPPED.
- CM20.** ALL LINTELS SUPPORTING BLOCKWORK ARE TO BE HOT DIP GALVANISED WITH MINIMUM COATING MASS OF 300g/m².
- PROVIDE 1 LINTEL TO EACH WALL LEAF. DO NOT CUT ON SITE. KEEP LINTELS 6mm CLEAR OF DOOR HEADS AND WINDOW FRAMES. PACK MORTAR BETWEEN THE ANGLE UPSTAND AND SUPPORT MASONRY UNITS.
- MINIMUM BEARING EACH END OF LINTELS:
- SPANS 0mm to 1800mm = 200mm BEARING EACH END.
 - SPANS 1801mm to 3000mm = 400mm BEARING EACH END.
- PROPPING OF LINTELS:
- TO PREVENT DEFLECTION OR EXCESSIVE ROTATION, TEMPORARILY PROP PROPRIETARY COLD-FORMED LINTELS UNTIL THE MASONRY REACHES ITS REQUIRED STRENGTH. MINIMUM PROPPING PERIOD IS TO BE 7 DAYS.

STEELWORK


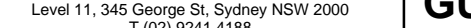


- S1.** FABRICATE AND ERECT STRUCTURAL STEELWORK IN ACCORDANCE WITH AS4100-1998.
- S2.** PROVIDE HOLES, CLEATS AND FIXING FOR LIGHT STEEL/TIMBER FRAMING, FINISHES, ETC. SHOWN ON ARCHITECTURAL DRAWINGS.
- S3.** THESE DRAWINGS HAVE BEEN PREPARED TO INDICATE THE STRUCTURAL INTENT. THE SHOP DETAILER IS TO USE THESE DRAWINGS AS A BASIS FOR DIMENSIONAL COORDINATION WITH OTHER CONSULTANT'S DRAWINGS AND IS TO PREPARE DETAILED SHOP DRAWINGS. WHERE NECESSARY, THE SHOP DETAILER IS TO MAKE ASSUMPTIONS AND SUBMIT TO NORTHROP CONSULTING ENGINEERS FOR RESOLUTION. SHOP DETAILER IS TO ALLOW TO RE-WORK SHOP DRAWINGS AS NECESSARY. FABRICATOR SHALL PREPARE SHOP DRAWINGS AND SUBMIT THEM TO THE BUILDER FOR THEIR APPROVAL. BUILDER SHALL LODGE TWO HARD COPIES OF APPROVED DRAWINGS TO NORTHROP CONSULTING ENGINEERS FOR REVIEW PRIOR TO FABRICATION, (ALLOW 5 WORKING DAYS FOR REVIEW).
- S4.** TYPICAL STEELWORK CONNECTIONS (UNLESS NOTED OTHERWISE):
- COLUMN BASE PLATES: 10 BASE PLATE, 4/M16 HILTI HIT-HY200-R CHEMICAL INJECTION ANCHORS.
 - BEAM TO TOP OF COLUMN: CAP PLATE, 2 BOLTS TO CHANNELS, 4 BOLTS TO RHS/CHS/SHS/UB/UC.
 - BEAM TO SIDE OF COLUMN: FIN PLATE, 2 BOLTS.
 - BEAM TO SIDE OF BEAM: END OR FIN PLATE, 2 BOLTS.
 - COLUMNS TO TOP OF BEAM: BASE PLATE, 2 BOLTS TO CHANNELS, 4 BOLTS TO UB/UC SECTIONS.
 - ALL ROOF & WALL BRACING: CLEAT PLATES, 2 BOLTS.
 - PURLINS/WALL GIRTS: 8 CLEAT PLATES, 2 PURLIN BOLTS.
- UNLESS NOTED OTHERWISE USE:
- 10mm BASE, CAP, GUSSET, FIN AND END PLATES.
 - M20 8.8/S BOLTS. (4.6/S GRADE TO BE USED FOR HOLD DOWN BOLTS).
 - 6mm CONTINUOUS FILLET WELDS MADE WITH E4918 MILD STEEL ELECTRODES.
 - ALL WELDS SP CATEGORY.
- S5.** NO PAINT ON MATING SURFACES WITH TF OR TB BOLTING UNLESS APPROVED BY NORTHROP CONSULTING ENGINEERS.
- S6.** TF or TB BOLTS TO BE INSTALLED WITH ONE HARDENED WASHER UNDER THE TURNED PART.
- S7.** USE LOAD INDICATING WASHERS FOR ALL TB AND TF CONNECTIONS.
- S8.** ALL BOLTS, SCREWS, HOLD DOWN BOLTS, MASONRY ANCHORS SHALL BE HOT DIP GALVANISED TO AS1214-1983, AS/NZS 4534-2006, AS/NZS 4680-2006 & AS/NZS 4792-2006. NO CONNECTION SHALL HAVE LESS THAN 2 BOLTS. ALL BOLTS AND WASHERS SHALL BE GALVANISED. ALL HOLES SHALL BE 2mm LARGER THAN THE BOLT DIAMETER UNLESS NOTED OTHERWISE.
- S9.** MINIMUM YIELD STRESS:
- HOT ROLLED SECTIONS = 300MPa.
 - SQUARE HOLLOW SECTIONS = 350MPa.
 - RECTANGULAR HOLLOW SECTIONS = 350MPa.
 - CIRCULAR HOLLOW SECTION = 250MPa.
 - HOT ROLLED PLATE = 250MPa.
- S10.** COLD FORMED SECTIONS TO CONFORM WITH:
- AS/NZS 1594-2002, AS/NZS 1595-1998, AS/NZS 4600-2005 AND AS 1397-2001, AS1397, AS/NZS1594 AND AS/NZS1595.
 - MINIMUM YIELD STRESSES SECTIONS 450MPa.
- S11.** SURFACE TREATMENT UNLESS NOTED OTHERWISE:
- PROTECTED FROM WEATHER = AS/NZS 2312-1ZS2.
 - EXPOSED TO WEATHER = AS/NZS 2312-1ZS2.
 - BUILT INTO THE INTERNAL SKIN OF EXTERNAL WALLS = AS/NZS 2312-1ZS2.
- **REFER TO PURLIN & GIRTS NOTES FOR SURFACE TREATMENT OF THESE ITEMS****
- S12.** UNLESS OTHERWISE DETAILED, FABRICATOR SHALL PROVIDE C100 15 TRIMMER PURLINS ALONG WITH GENERAL PURPOSE BRACKETS TO SUPPORT EDGE OF ROOF SHEETING AT ALL HIPs, VALLEYS AND PENETRATIONS.
- S13.** FIX CROSS BRACING TO PURLINS AT 3000 MAX CENTRES WITH M10 BOLTS OR M6 HOOKS. BOLTS ARE TO BE MECHANICALLY FIXED TO PURLINS, WITH HOOKS TO BE LOOPED THROUGH THE WEB OF THE PURLINS AND SECURED USING A NUT TO ENSURE THEY WILL NOT BECOME LOOSE DURING MOVEMENT OF THE ROOF. ALTERNATIVELY, GALVANISED STRAP MAY BE USED TO SECURE THE BRACING. THE STRAP IS TO BE INSTALLED TO LIFT THE BRACE SUCH THAT IT IS PLUMB, WITH THE BRACE SCREW FIXED TO THE WEB OF THE PURLIN AT BOTH ENDS USING 2/12-14 TEKS SCREWS.
- S14.** ALL BURIED STEELWORK TO BE TREATED BY:
- THE APPLICATION OF A SINGLE COAT OF INTERNATIONAL PROTECTIVE COATINGS INTERZONE 954 APPLIED TO BARE CLEAN STEEL (THICKNESS 300-400 MICRONS). APPLY TO WHOLE OF RELEVANT MEMBER, TOP COAT IF REQUIRED BY ARCHITECT FOR VISUAL APPEARANCE.
- OR
- THE APPLICATION OF HDG AS SPECIFIED IN S11 ABOVE FOLLOWED BY AN APPLICATION OF TWO COATS OF INTERNATIONAL PROTECTIVE COATINGS INTERPLUS 1180 (EACH COAT 150-250 MICRONS) WHERE BURIED IN THE GROUND.
- THEN
- CONCRETE ENCASE STEELWORK WITH MASS CONCRETE (MINIMUM 75mm COVER TO STEELWORK).
- S15.** STEELWORK TO BE CONCRETE ENCASED FOR FIRE RATING PURPOSES SHALL BE FREE FROM ALL LOOSE RUST, LOOSE MILL SCALE, DIRT, OIL, GREASE, ETC. AND REINFORCED WITH SL41 FABRIC OR EQUIVALENT BLACK IRON WIRE, 3mm DIA.
- S16.** BOLT SYMBOLS:
- 4.6/S = GRADE 4.6 BOLT / SNUG TIGHTENED.
 - 8.8/S = GRADE 8.8 BOLT / SNUG TIGHTENED.
 - 8.8/TF = GRADE 8.8 BOLT / FULLY TENSIONED FRICTION TYPE (USE LOAD INDICATOR WASHERS).
 - 8.8/TB = GRADE 8.8 BOLT / FULLY TENSIONED BEARING TYPE (USE LOAD INDICATOR WASHERS).
- S17.** THE CONTRACTOR SHALL SUPPLY WRITTEN CERTIFICATION TO THE STRUCTURAL ENGINEER PRIOR TO THE ERECTION OF ANY STRUCTURAL STEEL STATING THAT THE BOLTS PROPOSED TO BE USED COMPLY WITH AS/NZS 1252-1996. HIGH STRENGTH BOLTS (8.8) ARE NOT TO BE WELDED.
- S18.** THE FABRICATION AND ERECTION OF THE STRUCTURAL STEEL WORK SHALL BE SUPERVISED BY A QUALIFIED PERSON EXPERIENCED IN SUCH SUPERVISION, IN ORDER TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET.
- S19.** ALL MEMBERS SHALL BE SUPPLIED IN SINGLE LENGTHS. SPLICES SHALL ONLY BE PERMITTED IN LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS.
- S20.** ALL BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS CATEGORY SP TO AS1554.1-2004 U.N.O THE EXTENT ON NON-DESTRUCTIVE WELD EXAMINATION SHALL BE AS NOTED BELOW:
- RADIOGRAPHIC OR ULTRASONIC EXAMINATION SHALL BE TO AS/NZS 1554.1-2004, AS 2177-2006 AND AS2207-2007 AS APPROPRIATE.

STEELWORK (CONTINUED)

- S21.** GROUT ALL STEEL BASES BY DRY PACKING USING GROUT WHICH IS NON-SHRINK AND HAS A MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS OF 40MPa.
- S22.** PROVIDE SEAL PLATES TO THE ENDS OF ALL HOLLOW SECTIONS, WITH 'BREATHER' HOLES IF MEMBERS ARE TO BE HOT DIP GALVANISED.
- S23.** THESE DRAWINGS MAY NOT IDENTIFY ALL SECONDARY STEELWORK ELEMENTS THAT ARE REQUIRED FOR SUPPORT, FIXING AND FINISHING OF GLAZING, CLADDING AND LINING. THE TENDERER IS RESPONSIBLE FOR THE INCLUSION OF SUCH STEELWORK ELEMENTS TO THE EXTENT REQUIRED ON THE ARCHITECT'S DRAWINGS.

LEGEND			
TERM	ABBREVIATION	TERM	ABBREVIATION
BOTH SIDES	B/S	MAXIMUM	MAX
BOTTOM	B	MINIMUM	MIN
BLOCK WALL	BW	MISCELLANEOUS	MISC
BRICK WALL	BRW	NEAR FACE	NF
CENTRALLY PLACED	CENT	NEAR SIDE	N/S
CENTRE LINE	CL	NOMINAL	NOM
CENTRES	CTS	NOT SHOWN ON PLAN	NSOP
CIRCULAR HOLLOW SECTION	CHS	NOT SHOWN ON ELEVATION	NSOE
CONCRETE	CONC	NOT TO SCALE	NTS
CONCRETE WALL	CW	OPPOSITE	OPP
CONSTRUCTION JOINT	CJ	OVERALL	O/A
DEEP/DEPTH	D	PARALLEL	PFC
DIAMETER	DIA	FLANGE CHANNEL	
DIAMETER INSIDE	ID	PLATE	PL
DIAMETER NOMINAL	DN	PERMANENT ACTION	G
DIAMETER OUTSIDE	OD	(DEAD LOAD)	
DRAWING	DWG	POST TENSION	PT
EACH FACE	EF	QUANTITY	QTY
EACH WAY	EW	RADIUS	RAD
EQUAL	EQ	RECTANGULAR	RHS
EQUAL ANGLE	EA	HOLLOW SECTION	
EXISTING	EXST	REINFORCED CONCRETE	RC
EXPANSION JOINT	EJ	REINFORCEMENT	REINF
FAR SIDE	F/S	REQUIRED	REQ'D
FAR FACE	FF	SQUARE	SQ
FINISHED FLOOR LEVEL	FFL	SQUARED	SHS
FLAT	FL	HOLLOW SECTION	
GALVANISED	GALV	TOP	T
GENERAL PURPOSE	GPB	TOP & BOTTOM	T&B
BRACKET		TYPICAL	TYP
HIGH/HEIGHT	H	UNDER SIDE	U/S
HORIZONTAL	HORIZ	UNEQUAL ANGLE	UA
IMPOSED ACTION	Q	UNIVERSAL BEAM	UB
(LIVE LOAD)		UNIVERSAL COLUMN	UC
INTERSECTION POINT	IP	UNLESS NOTED	UNO
LONG/LENGTH	L	OTHERWISE	
LENGTH VARIES	LV	VERTICAL	VERT
		WIDE/WIDTH	W

NOT FOR CONSTRUCTION

REV	DESCRIPTION	ISSUED	VER'D	APP'D	DATE	<div><div>Sydney Level 11, 345 George St, Sydney NSW 2000 T (02) 9241 4188 sydney@northrop.com.au ABN 81 094 433 100</div></div> <div>CLIENT</div> <div></div>	PROJECT	DRAWING TITLE	JOB NUMBER			
1	50% ISSUE	BP	XX	BP	18.07.2023		GUNYAMA PARK - STAGE 2	STRUCTURAL PACKAGE	SY223309-00			
									DRAWING NUMBER	REVISION		
									SK-02	1		
						CLIENT	DRAWING SHEET SIZE = A3					
						 <div>Level 11, 345 George St, Sydney NSW 2000 T (02) 9241 4188 sydney@northrop.com.au ABN 81 094 433 100</div>						
												

VERIFIER: XX

JOB MANAGER: BP

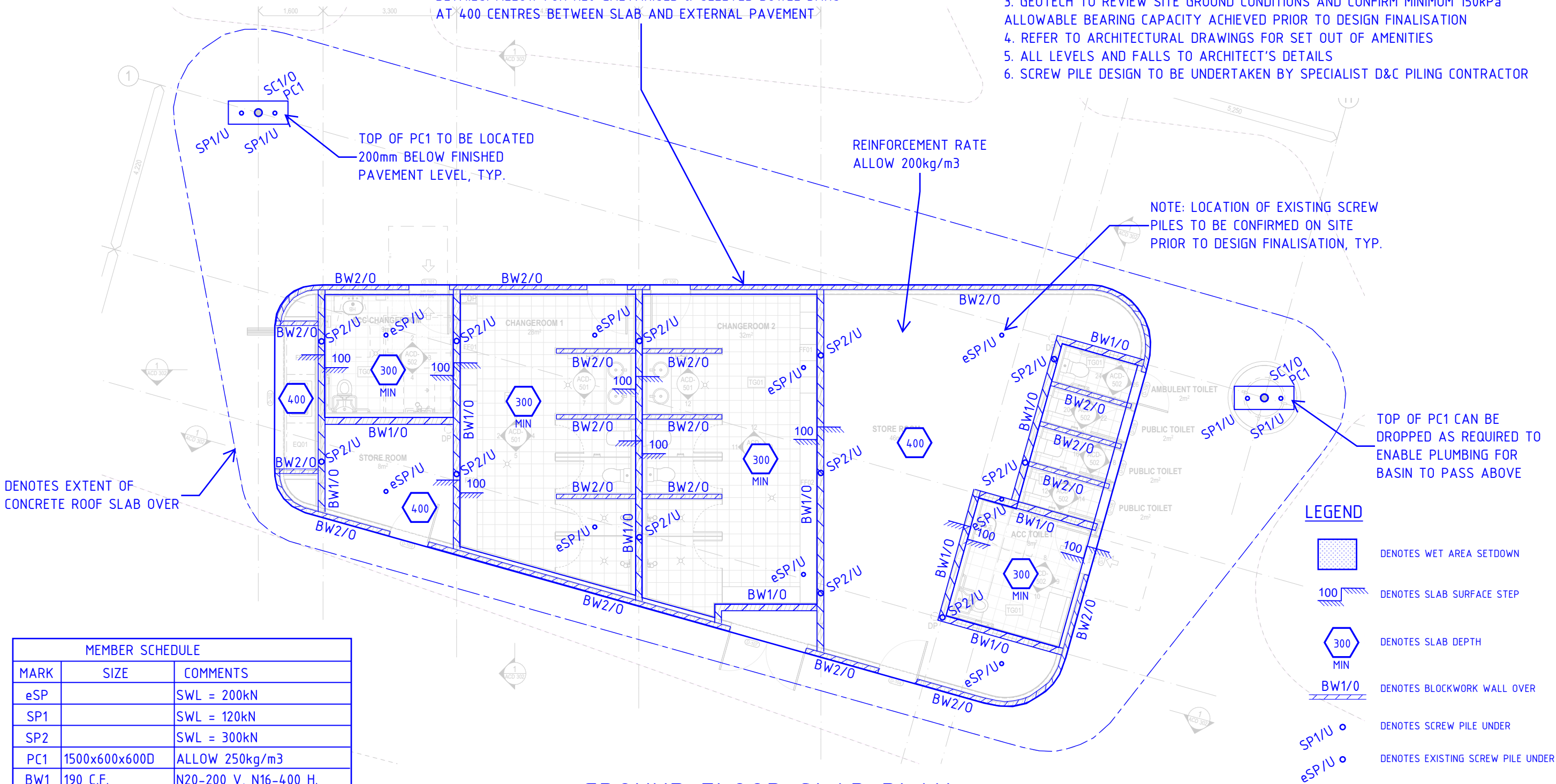
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DRAWN: BP

PROVIDE PERIMETER ISOLATION BETWEEN STRUCTURAL SLAB AND SURROUNDING PAVEMENT. REFER CIVIL PACKAGE FOR PAVEMENT DETAILS. ALLOW FOR R20 GALVANISED & SLEEVED DOWEL BARS AT 400 CENTRES BETWEEN SLAB AND EXTERNAL PAVEMENT

NOTES

1. MINIMUM 350 THICK SLAB ON GROUND
2. CONCRETE STRENGTH TO BE $f'c=40MPa$
3. GEOTECH TO REVIEW SITE GROUND CONDITIONS AND CONFIRM MINIMUM 150kPa ALLOWABLE BEARING CAPACITY ACHIEVED PRIOR TO DESIGN FINALISATION
4. REFER TO ARCHITECTURAL DRAWINGS FOR SET OUT OF AMENITIES
5. ALL LEVELS AND FALLS TO ARCHITECT'S DETAILS
6. SCREW PILE DESIGN TO BE UNDERTAKEN BY SPECIALIST D&C PILING CONTRACTOR



MEMBER SCHEDULE		
MARK	SIZE	COMMENTS
eSP		SWL = 200kN
SP1		SWL = 120kN
SP2		SWL = 300kN
PC1	1500x600x600D	ALLOW 250kg/m3
BW1	190 C.F.	N20-200 V, N16-400 H.
BW2	140 C.F.	N16-400 V, N16-400 H.
SC1	219x12.7 CHS	ALLOW 25mm BASEPLATES

GROUND FLOOR SLAB PLAN

SCALE 1:100

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PROJECT

GUNYAMA PARK - STAGE 2

CLIENT



DRAWING TITLE

STRUCTURAL PACKAGE

AMENITIES BUILDING
GROUND FLOOR PLAN

JOB NUMBER

SY223309-00

DRAWING NUMBER

SK-04

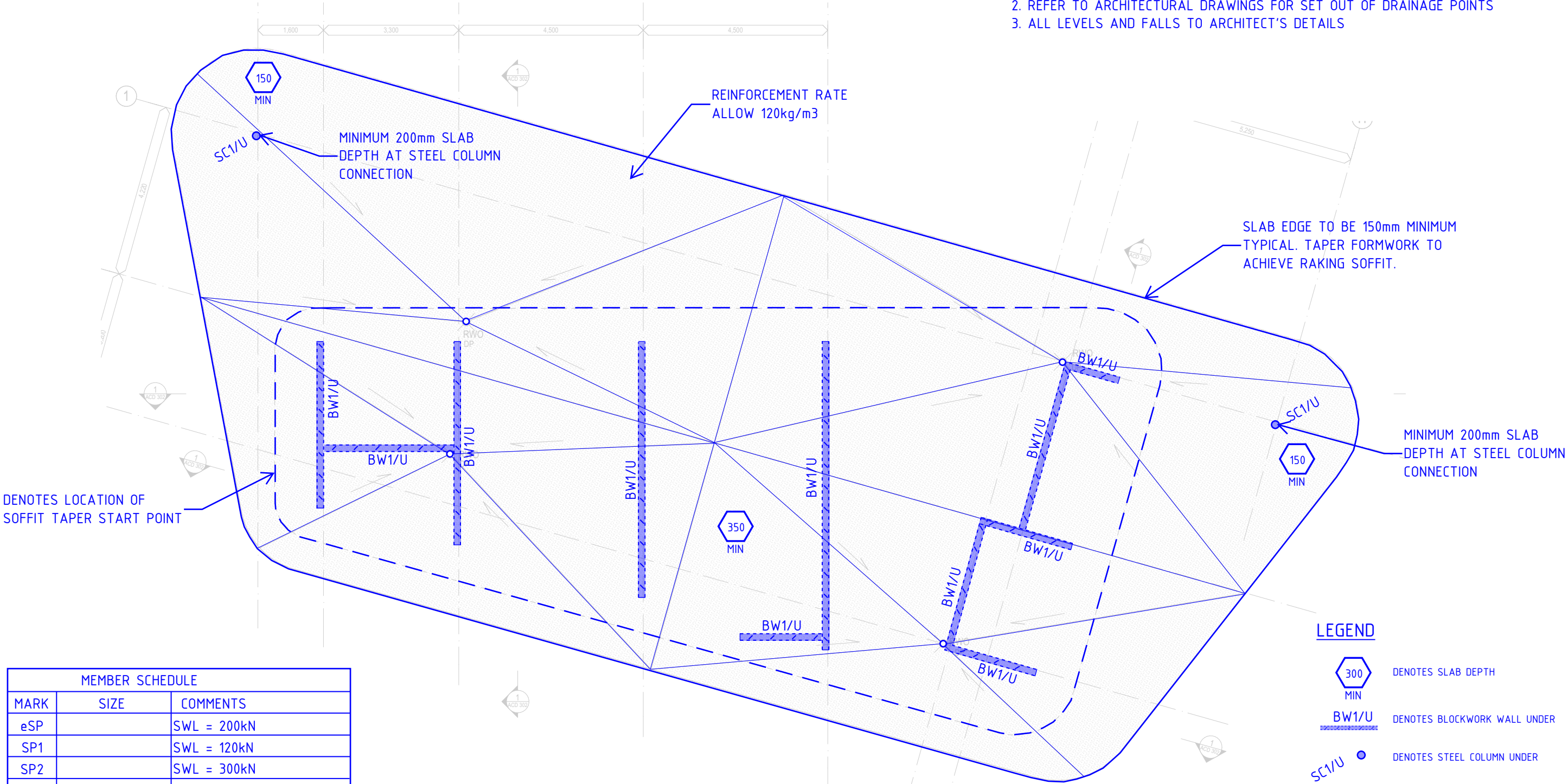
REVISION

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DRAWING SHEET SIZE = A3

NOTES

- 1. CONCRETE STRENGTH TO BE $f'_c=40MPa$
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR SET OUT OF DRAINAGE POINTS
- 3. ALL LEVELS AND FALLS TO ARCHITECT'S DETAILS



MEMBER SCHEDULE		
MARK	SIZE	COMMENTS
eSP		SWL = 200kN
SP1		SWL = 120kN
SP2		SWL = 300kN
PC1	1500x600x600D	ALLOW 250kg/m ³
BW1	190 C.F.	N20-200 V, N16-400 H.
BW2	140 C.F.	N16-400 V, N16-400 H.
SC1	219x12.7 CHS	ALLOW 25mm BASEPLATES

ROOF SLAB PLAN

SCALE 1:100

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PROJECT

GUNYAMA PARK - STAGE 2

DRAWING TITLE

STRUCTURAL PACKAGE

AMENITIES BUILDING
ROOF SLAB PLAN

JOB NUMBER

SY223309-00

DRAWING NUMBER

SK-05

REVISION

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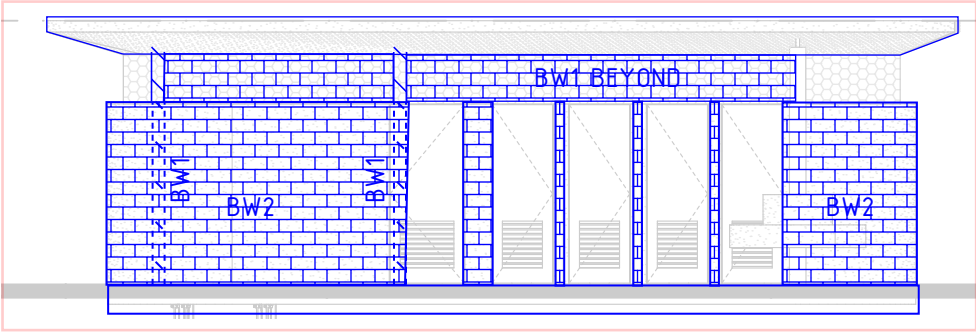
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JOB MANAGER: BP

DESIGNED: BP

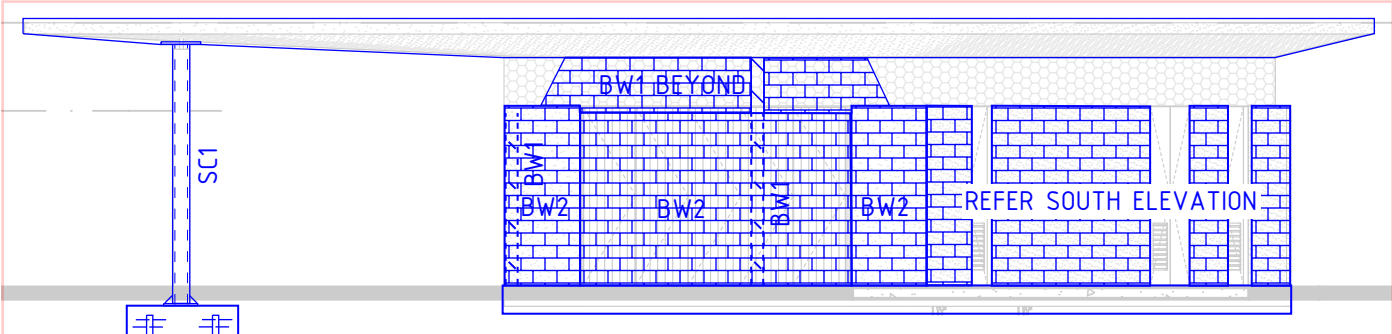
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EAST ELEVATION

SCALE 1:100

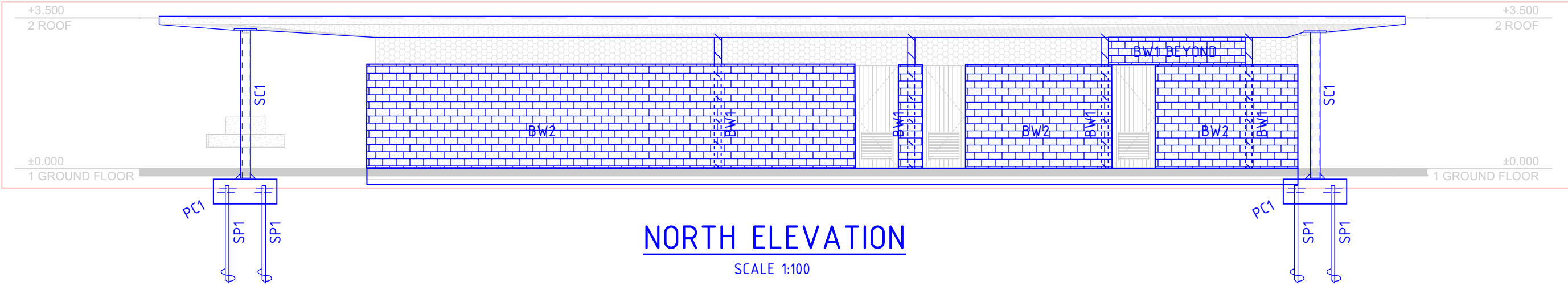
SCREW PILES BELOW GROUND FLOOR SLAB NOT SHOWN FOR CLARITY



WEST ELEVATION

SCALE 1:100

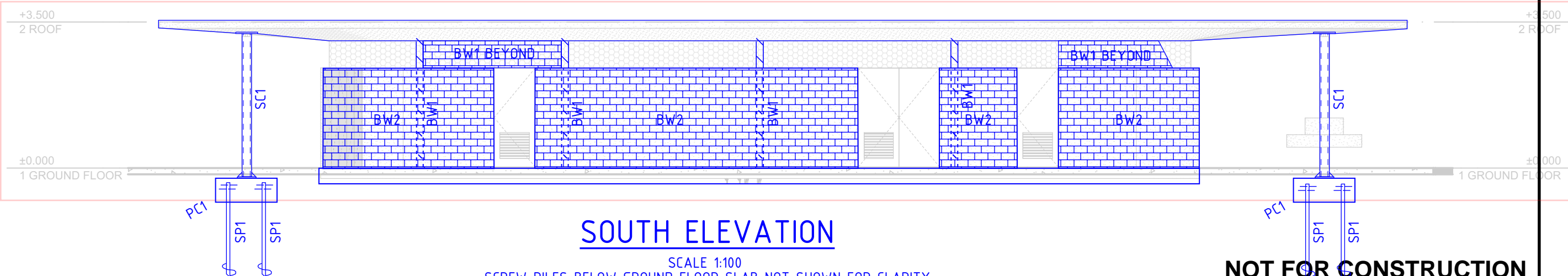
SCREW PILES BELOW GROUND FLOOR SLAB NOT SHOWN FOR CLARITY



NORTH ELEVATION

SCALE 1:100

SCREW PILES BELOW GROUND FLOOR SLAB NOT SHOWN FOR CLARITY



SOUTH ELEVATION

SCALE 1:100

SCREW PILES BELOW GROUND FLOOR SLAB NOT SHOWN FOR CLARITY

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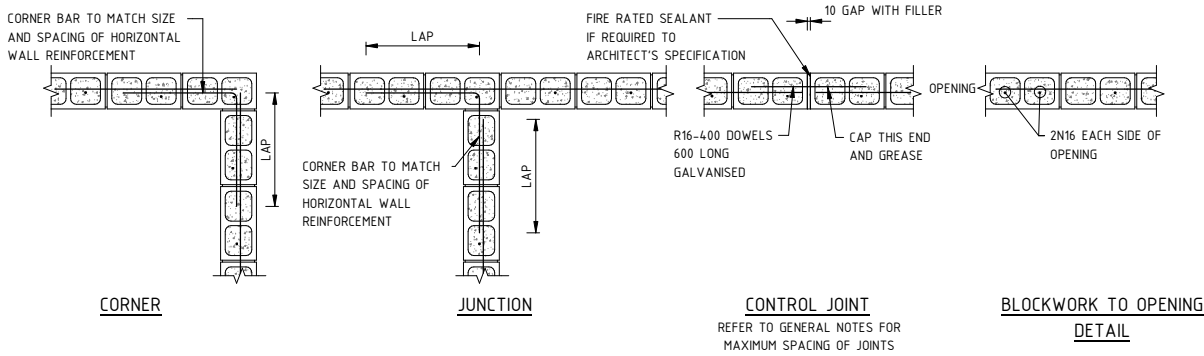
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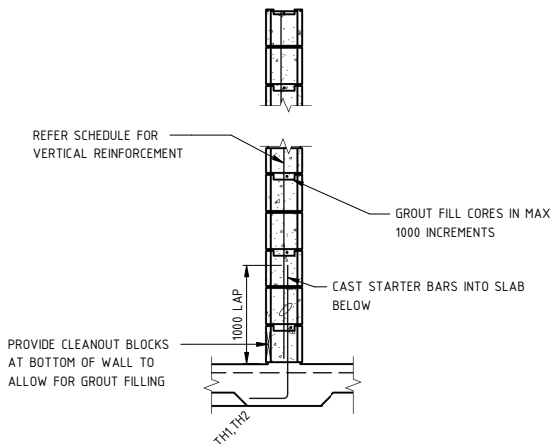
PROJECT
GUNYAMA PARK - STAGE 2

DRAWING TITLE
STRUCTURAL PACKAGE
AMENITIES BUILDING ELEVATIONS

JOB NUMBER	
SY223309-00	
DRAWING NUMBER	REVISION
SK-10	1
DRAWING SHEET SIZE = A3	



TYPICAL REINFORCED BLOCK WALL PLANS
CONTROL JOINTS TO BE VERTICAL FOR FULL HEIGHT OF WALL.
APPLY SEALANTS AS SPECIFIED TO EACH FACE OF BLOCK WALL.



TYPICAL BLOCK WALL DETAIL



VERIFIER: XX

JOB MANAGER: BP

DESIGNED: BP

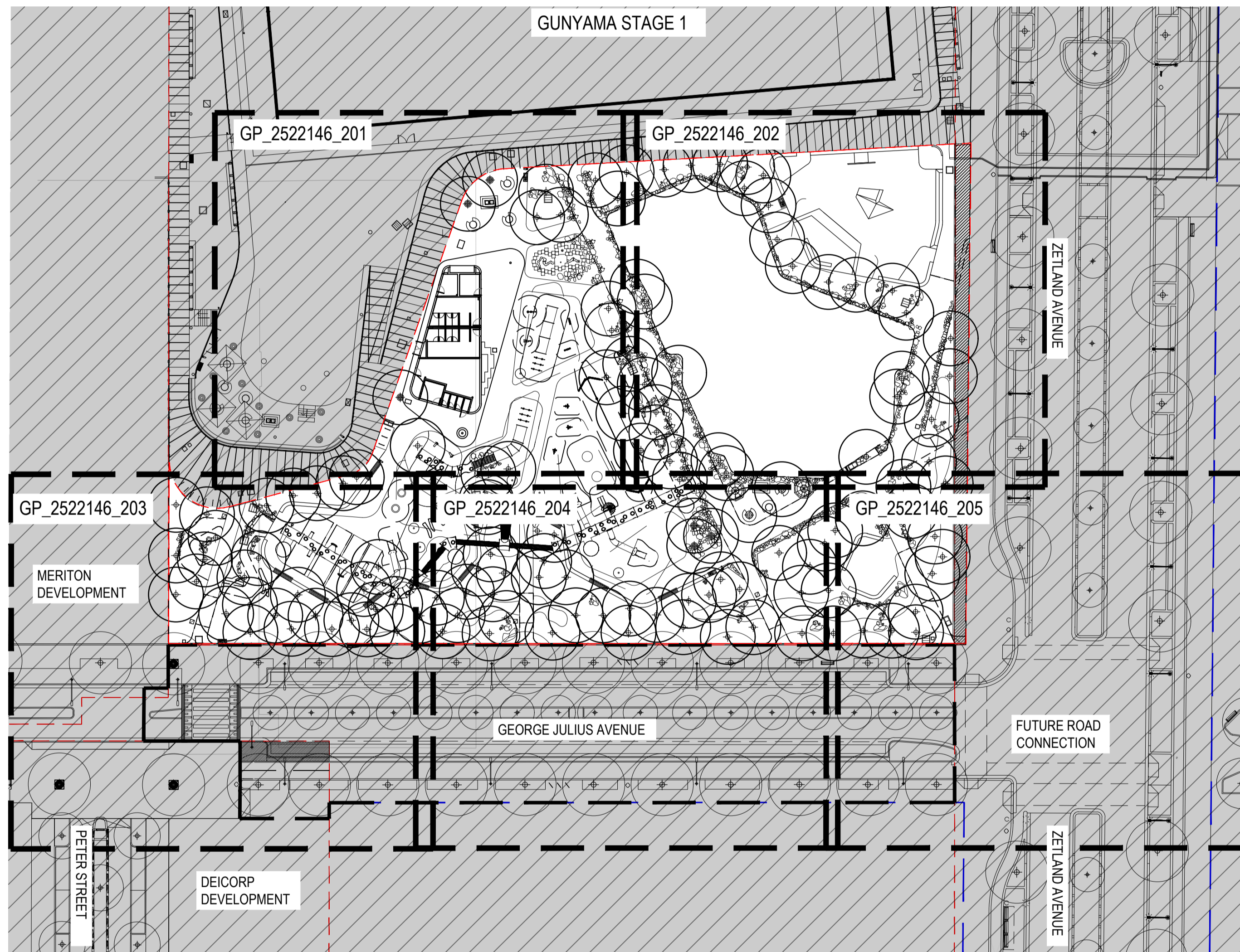
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1	50% ISSUE	BP	XX	BP	18.07.2023		SY223309-00					
							DRAWING NUMBER	REVISION				
							SK-12	1				
							DRAWING SHEET SIZE = A3					

GUNYAMA PARK - STAGE 2

50% DESIGN DEVELOPMENT - DRAFT



SCHEDULE OF DRAWINGS	NO.
COVER SHEET	GP_2522146-000
SITE PLAN	GP_2522146-001
SITE PREPARATION PLAN	GP_2522146-101
SITE PREPARATION PLAN	GP_2522146-102
SITE PREPARATION PLAN	GP_2522146-103
SITE PREPARATION PLAN	GP_2522146-104
SITE PREPARATION PLAN	GP_2522146-105
GENERAL ARRANGEMENT PLAN	GP_2522146-201
GENERAL ARRANGEMENT PLAN	GP_2522146-202
GENERAL ARRANGEMENT PLAN	GP_2522146-203
GENERAL ARRANGEMENT PLAN	GP_2522146-204
GENERAL ARRANGEMENT PLAN	GP_2522146-205
LEVELS AND GRADING PLAN	GP_2522146-301
LEVELS AND GRADING PLAN	GP_2522146-302
LEVELS AND GRADING PLAN	GP_2522146-303
LEVELS AND GRADING PLAN	GP_2522146-304
LEVELS AND GRADING PLAN	GP_2522146-305
PLANTING PLAN	GP_2522146-601
PLANTING PLAN	GP_2522146-602
PLANTING PLAN	GP_2522146-603
PLANTING PLAN	GP_2522146-604
PLANTING PLAN	GP_2522146-605
SECTION	GP_2522146-801
SECTION	GP_2522146-802
SECTION	GP_2522146-803
HARDSCAPE DETAILS	GP_2522146-901
HARDSCAPE DETAILS	GP_2522146-902
HARDSCAPE DETAILS	GP_2522146-903
HARDSCAPE DETAILS	GP_2522146-904
HARDSCAPE DETAILS	GP_2522146-905
HARDSCAPE DETAILS	GP_2522146-906
HARDSCAPE DETAILS	GP_2522146-907
HARDSCAPE DETAILS	GP_2522146-908
HARDSCAPE DETAILS	GP_2522146-909
HARDSCAPE DETAILS	GP_2522146-910
HARDSCAPE DETAILS	GP_2522146-911
HARDSCAPE DETAILS	GP_2522146-912
HARDSCAPE DETAILS	GP_2522146-913
HARDSCAPE DETAILS	GP_2522146-914
HARDSCAPE DETAILS	GP_2522146-915
HARDSCAPE DETAILS	GP_2522146-916
HARDSCAPE DETAILS	GP_2522146-917
HARDSCAPE DETAILS	GP_2522146-918
HARDSCAPE DETAILS	GP_2522146-919
HARDSCAPE DETAILS	GP_2522146-920
HARDSCAPE DETAILS	GP_2522146-921
HARDSCAPE DETAILS	GP_2522146-922
HARDSCAPE DETAILS	GP_2522146-923
HARDSCAPE DETAILS	GP_2522146-924
SOFTSCAPE DETAILS	GP_2522146-951

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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

DRAFT

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

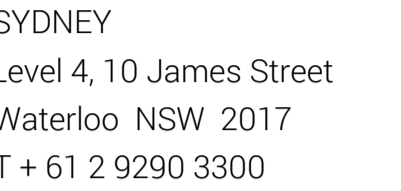
COVERSHEET

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



NOT TO SCALE

DRAWING NUMBER	REVISION
GP_2522146-000	01



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GUNYAMA PARK
STAGE 2

CITY OF SYDNEY

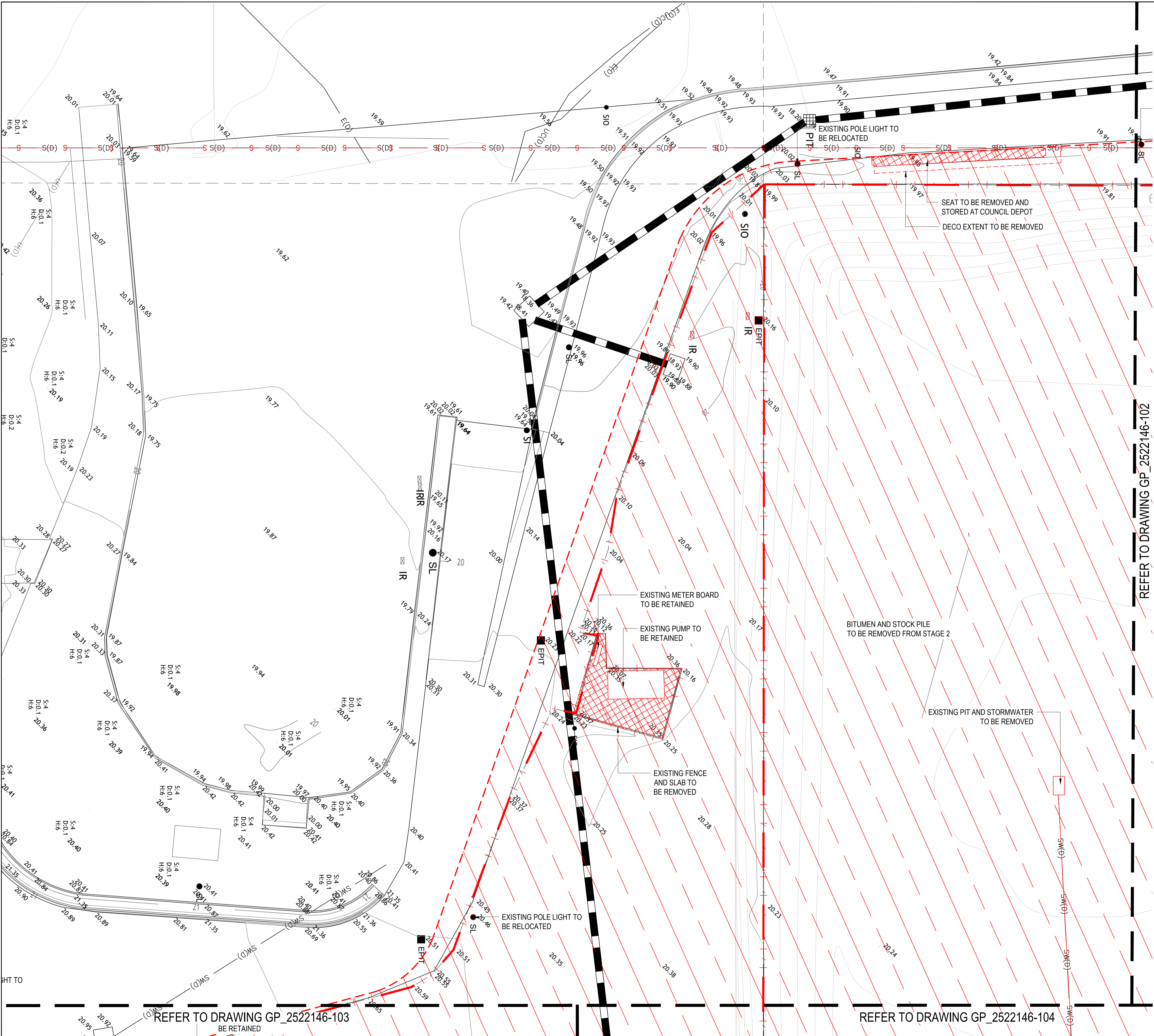
DRAFT

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SITE PREPARATION PLAN



DRAWING NUMBER	REVISION
GP_2522146-101	01





PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

GUNYAMA PARK
STAGE 2

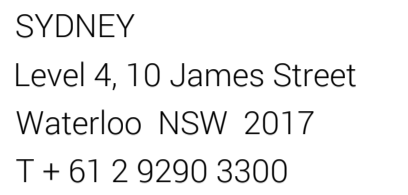
ITY OF SYDNEY

DRAWING TITLE

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



DRAWING NUMBER	REVISION
GP_2522146-103	01



PROJECT

GUNYAMA PARK
STAGE 2

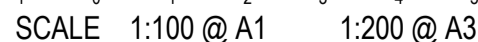
CLIENT

CITY OF SYDNEY

DRAFT

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SITE PREPARATION PLAN

REVISION
01

Topographic map showing a hillside with contour lines. A hatched area is shown on the right side, bounded by a dashed line. The hatched area is labeled "19". The contour lines are labeled "20.12". The map includes a north arrow pointing upwards. The text "REFER TO DRAWING GP_2522146-202" is written vertically along the right edge. The text "REFER TO DRAWING GP_2522146-204" is written vertically along the left edge.


Topographic map showing a hillside with contour lines. A hatched area is shown on the right side, bounded by a dashed line. The hatched area is labeled "19". The contour lines are labeled "20.12". The map includes a north arrow pointing towards the top right. The text "REFER TO DRAWING GP_2522146-202" is written vertically along the right edge. The text "REFER TO DRAWING GP_2522146-204" is written vertically along the left edge.


- 


HARDSCAPE TO BE DEMOLISHED
REFER TO SITE PREPARATION PLAN
- 

SOFTSCAPE TO BE DEMOLISHED
REFER TO SITE PREPARATION PLAN
- 

FENCE TO BE DEMOLISHED
REFER TO SITE PREPARATION PLAN

 HARDSCAPE TO BE DEMOLISHED
REFER TO SITE PREPARATION PLAN

 SOFTSCAPE TO BE DEMOLISHED
REFER TO SITE PREPARATION PLAN

 FENCE TO BE DEMOLISHED
REFER TO SITE PREPARATION PLAN

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GUNYAMA PARK
STAGE 2

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STAGE 2

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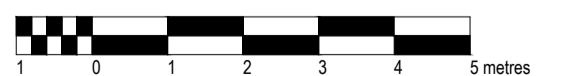
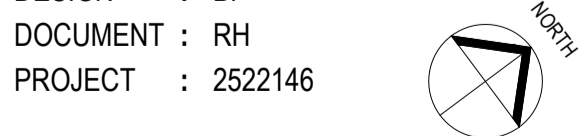
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DRAWING TITLE

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



SCALE 1:100 @ A1 1:200 @ A3

DRAWING NUMBER	REVISION
GP_2522146-105	01

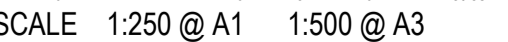
GUNYAMA PARK STAGE 2

CITY OF SYDNEY

NOTES

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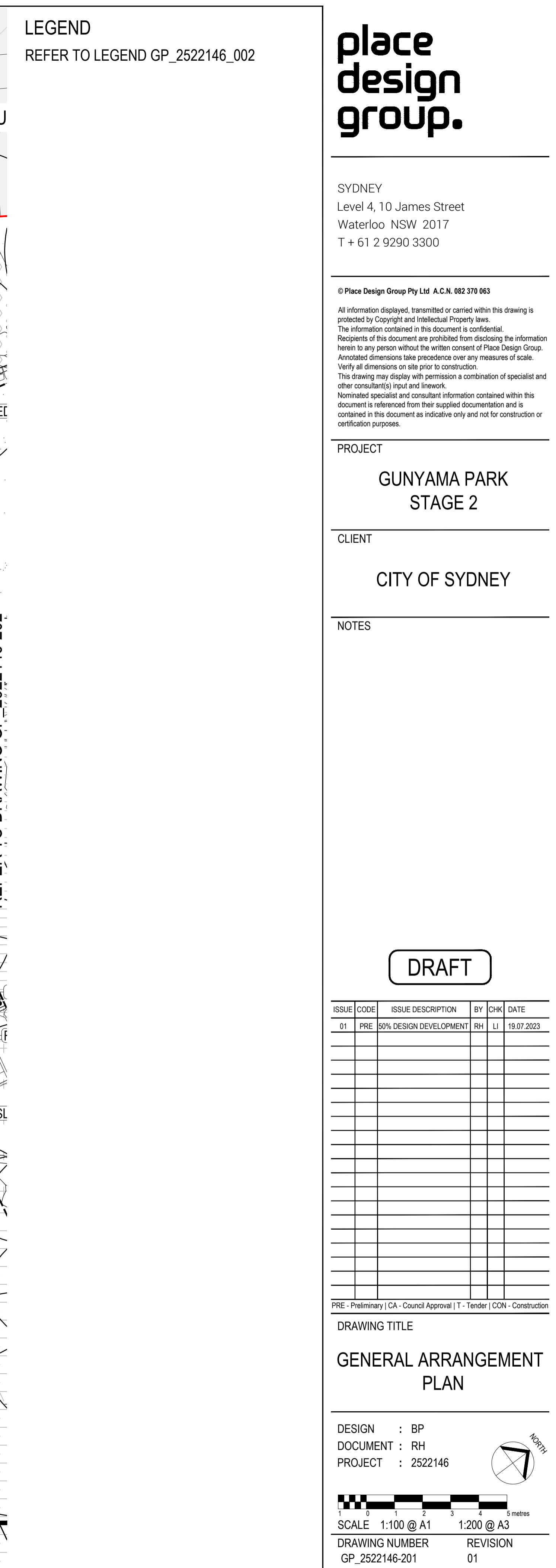
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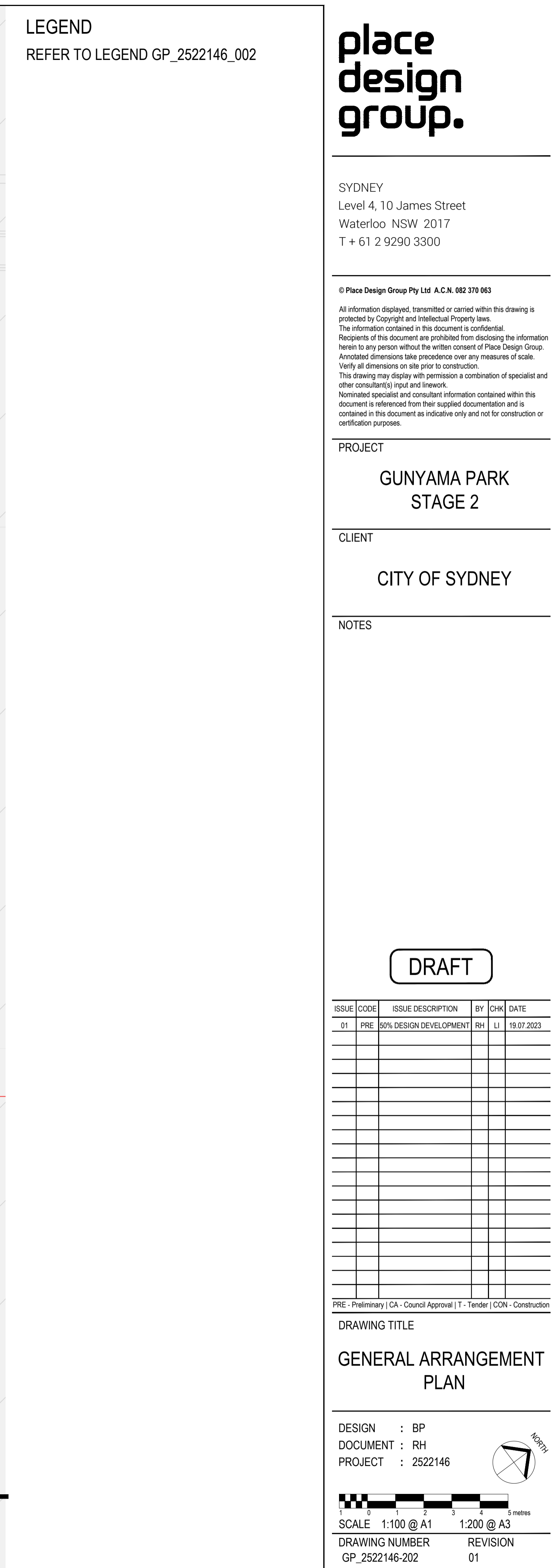


DRAWING NUMBER	REVISION
GP_2522146-001	01

FUTURE ROAD CONNECTION

PETER STREETS





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Vertical dimensions on site prior to construction.

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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

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DRAWING TITLE

GENERAL ARRANGEMENT PLAN

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



DRAWING NUMBER	REVISION
GP_2522146-202	01



DEICORP DEVELOPMENT

८

REFER TO DRAWING GP_2522146-201

LEGEND

REFER TO LEGEND GP_2522146_002

REFER TO DRAWING GP 2522146-204

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PROJECT

GUNYAMA PARK

STAGE 2

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[illegible]

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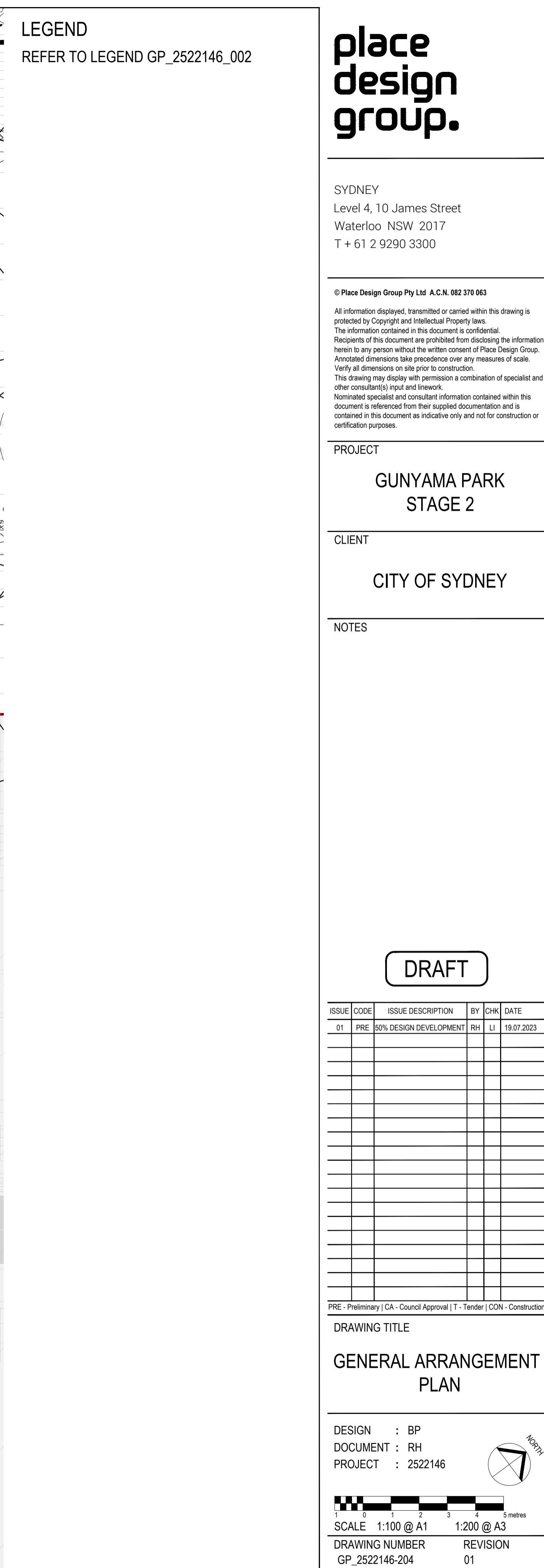
DRAWING TITLE

GENERAL ARRANGEMENT PLAN

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



DRAWING NUMBER	REVISION
GP 2522146-203	01





REFER TO LEGEND GP_2522146_002

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GUNYAMA PARK

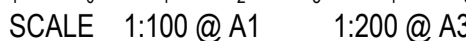
STAGE 2

CITY OF SYDNEY

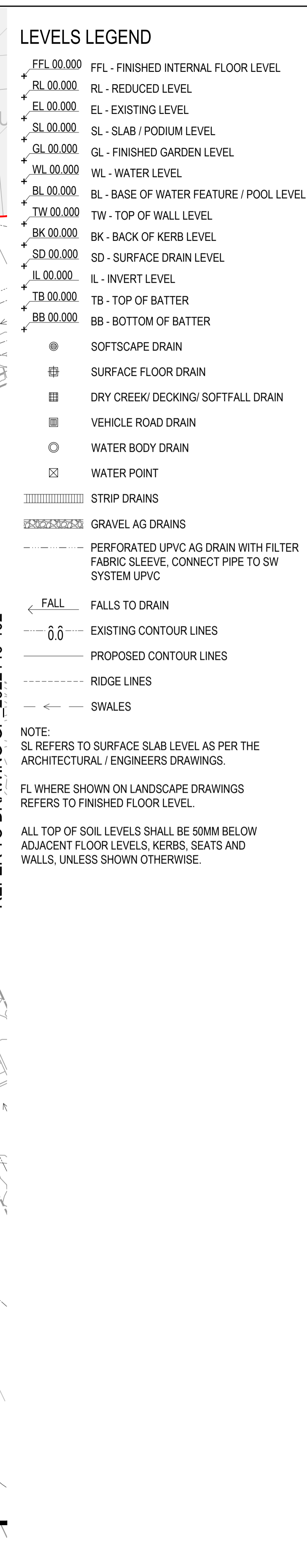
DRAFT

[illegible]

GENERAL ARRANGEMENT PLAN









DRAWING NUMBER	REVISION
GP_2522146-205	01




[illegible]



LEVELS LEGEND

+ FFL 00.000	FFL - FINISHED INTERNAL FLOOR LEVEL
+ RL 00.000	RL - REDUCED LEVEL
+ EL 00.000	EL - EXISTING LEVEL
+ SL 00.000	SL - SLAB / PODIUM LEVEL
+ GL 00.000	GL - FINISHED GARDEN LEVEL
+ WL 00.000	WL - WATER LEVEL
+ BL 00.000	BL - BASE OF WATER FEATURE / POOL LEVEL
+ TW 00.000	TW - TOP OF WALL LEVEL
+ BK 00.000	BK - BACK OF KERB LEVEL
+ SD 00.000	SD - SURFACE DRAIN LEVEL
+ IL 00.000	IL - INVERT LEVEL
+ TB 00.000	TB - TOP OF BATTER
+ BB 00.000	BB - BOTTOM OF BATTER

	SOFTSCAPE DRAIN
	SURFACE FLOOR DRAIN
	DRY CREEK/ DECKING/ SOFTFALL DRAIN
	VEHICLE ROAD DRAIN
	WATER BODY DRAIN
	WATER POINT

-  STRIP DRAINS
-  GRAVEL AG DRAINS
-  PERFORATED UPVC AG DRAIN WITH FILTER FABRIC SLEEVE, CONNECT PIPE TO SW SYSTEM UPVC

← FALL FALLS TO DRAIN
 --- 0.0 --- EXISTING CONTOUR
 ——— PROPOSED CONTOUR
 - - - - - RIDGE LINES
 — ← — SWALES

NOTE:
SL REFERS TO SURFACE SLAB LEVEL AS PER THE
ARCHITECTURAL / ENGINEERS DRAWINGS.

FL WHERE SHOWN ON LANDSCAPE DRAWINGS
REFERS TO FINISHED FLOOR LEVEL.

ALL TOP OF SOIL LEVELS SHALL BE 50MM BELOW
ADJACENT FLOOR LEVELS, KERBS, SEATS AND
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PROJECT

GUNYAMA PARK
STAGE 2

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CITY OF SYDNEY

NOTES

DRAFT

[illegible]

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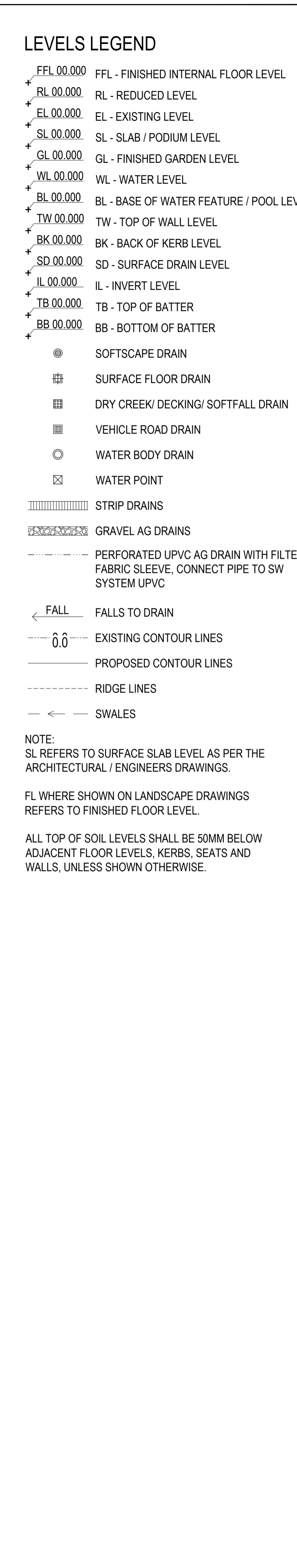
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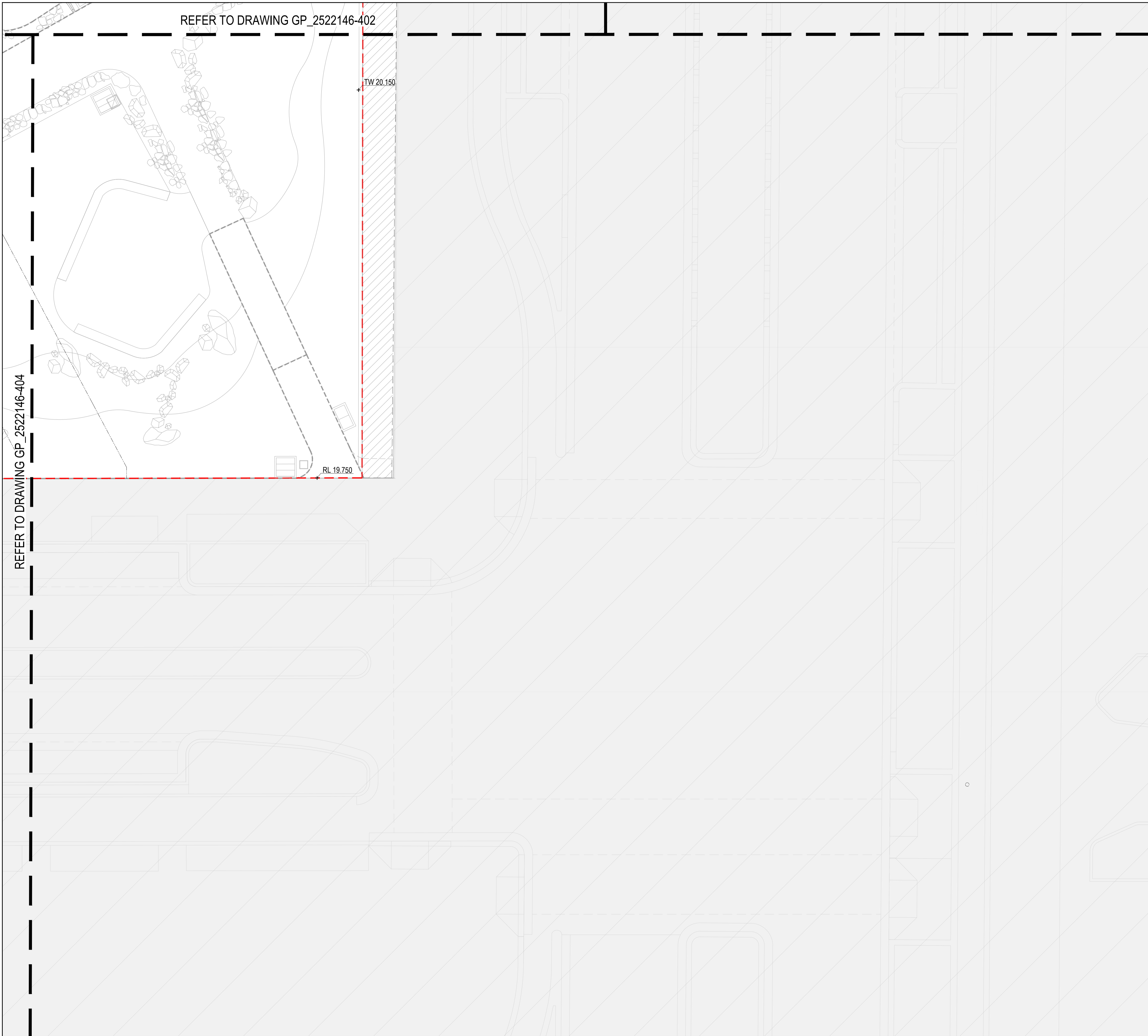
LEVELS AND GRADING PLAN

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146












DRAWING NUMBER	REVISION
GP 2522146-402	01





LEVELS LEGEND

- | | |
|-------------|---|
| FFL 00.0000 | FFL - FINISHED INTERNAL FLOOR LEVEL |
| RL 00.0000 | RL - REDUCED LEVEL |
| EL 00.0000 | EL - EXISTING LEVEL |
| SL 00.0000 | SL - SLAB / PODIUM LEVEL |
| GL 00.0000 | GL - FINISHED GARDEN LEVEL |
| WL 00.0000 | WL - WATER LEVEL |
| BL 00.0000 | BL - BASE OF WATER FEATURE / POOL LEVEL |
| TW 00.0000 | TW - TOP OF WALL LEVEL |
| BK 00.0000 | BK - BACK OF KERB LEVEL |
| SD 00.0000 | SD - SURFACE DRAIN LEVEL |
| IL 00.0000 | IL - INVERT LEVEL |
| TB 00.0000 | TB - TOP OF BATTER |
| BB 00.0000 | BB - BOTTOM OF BATTER |

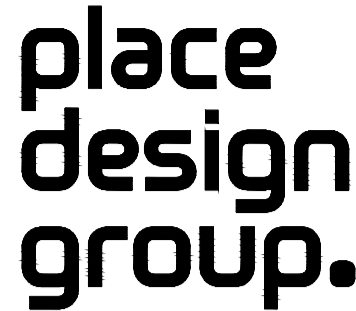
- | | |
|---|--|
|  | SOFTSCAPE DRAIN |
|  | SURFACE FLOOR DRAIN |
|  | DRY CREEK/ DECKING/ SOFTFALL DRAIN |
|  | VEHICLE ROAD DRAIN |
|  | WATER BODY DRAIN |
|  | WATER POINT |
|  | STRIP DRAINS |
|  | GRAVEL AG DRAINS |
|  | PERFORATED UPVC AG DRAIN WITH FILTER FABRIC SLEEVE, CONNECT PIPE TO SW SYSTEM UPVC |

- ← FALL FALLS TO DRAIN
 --- 0.0 --- EXISTING CONTOUR LINES
 ————— PROPOSED CONTOUR LINES
 - - - - - RIDGE LINES
 — ← — SWALES

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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

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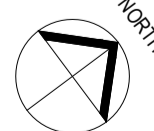
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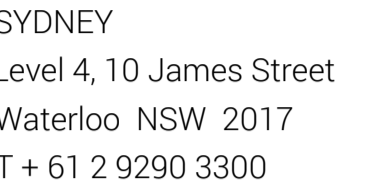
LEVELS AND GRADING PLAN

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



SCALE 1:100 @ A1 1:200 @ A3

DRAWING NUMBER	REVISION
GP_2522146-405	01



PROJECT

GUNYAMA PARK
STAGE 2

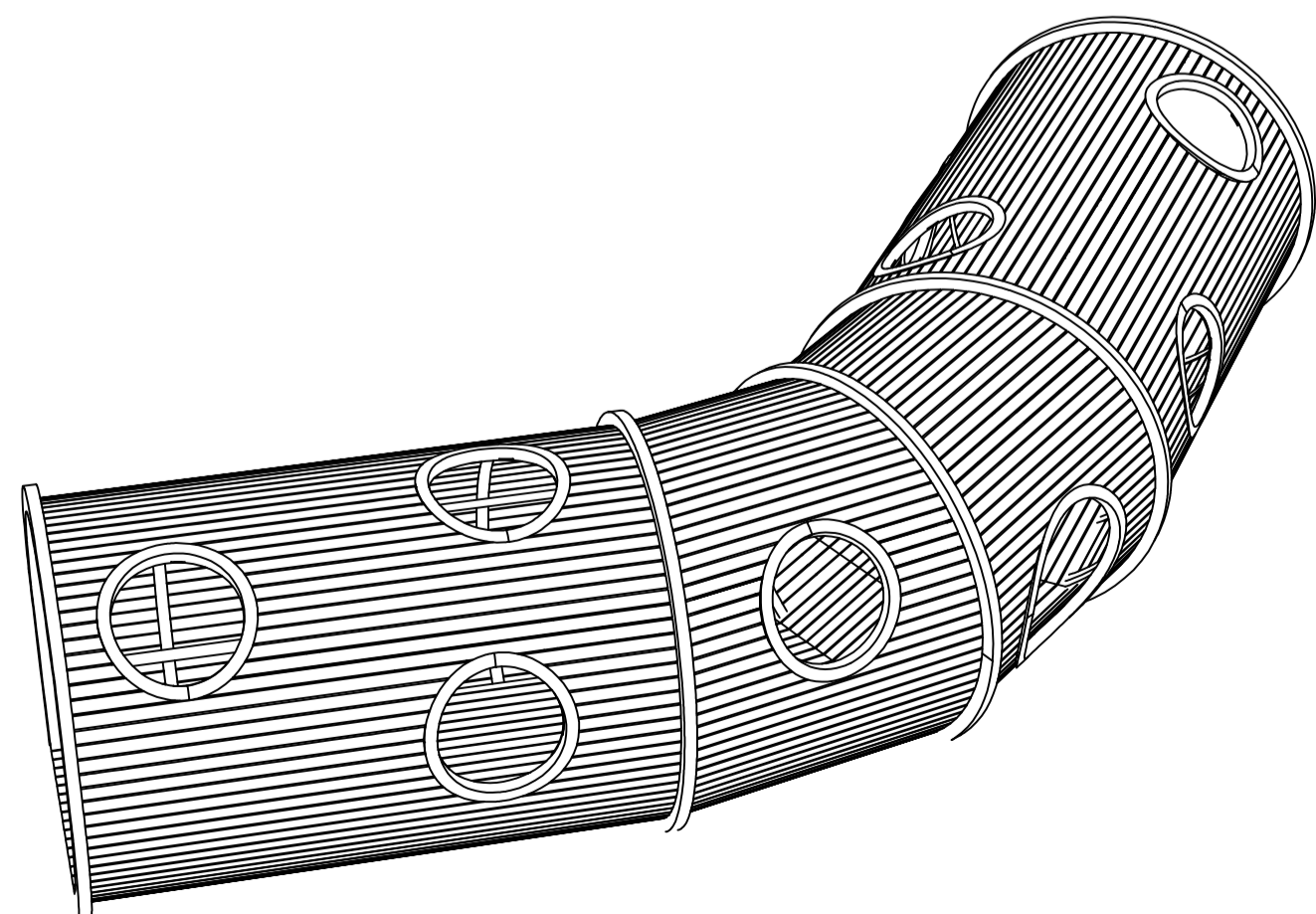
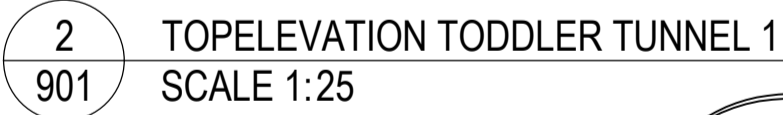
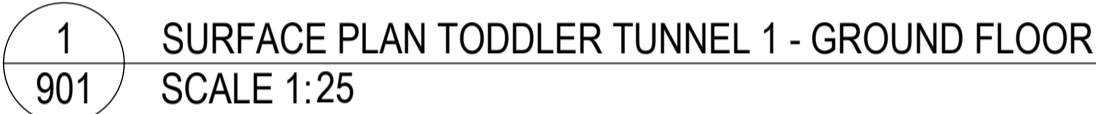
CITY OF SYDNEY

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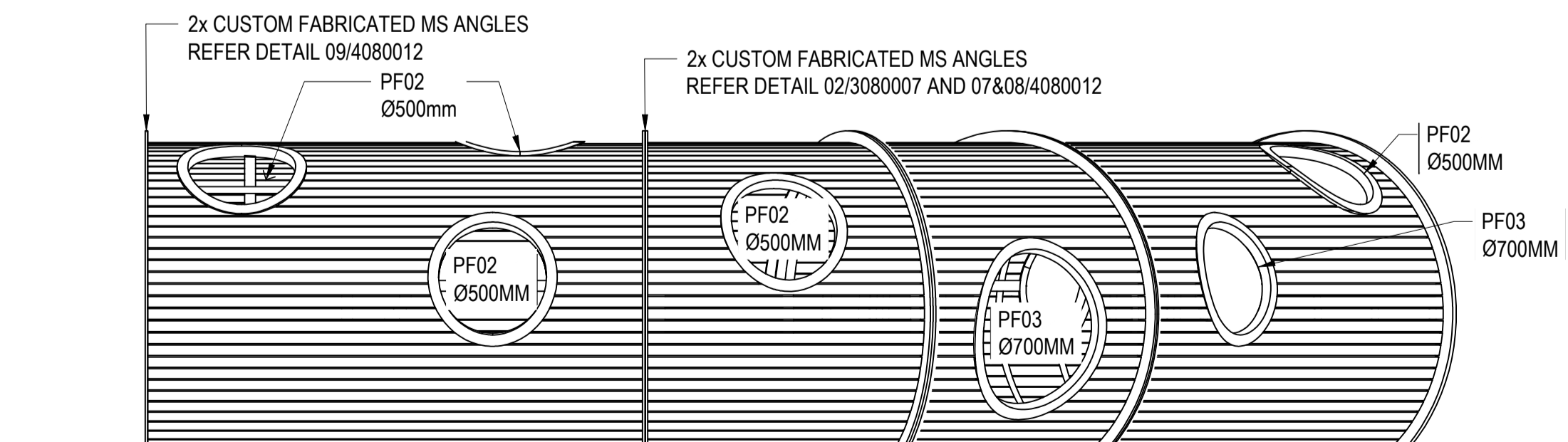
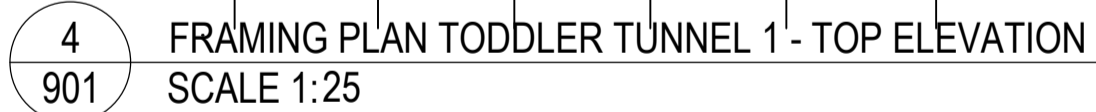
PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

HARDSCAPE DETAILS

DRAWING NUMBER	REVISION
GP_2522146_901	01



3	FRAMING PLAN TODDLER TUNNEL 1 - GROUND FLOOR
901	SCALE 1:25



6 ELEVATION - TODDLER TUNNEL 1
901 SCALE 1:25

NOTE: DRAWINGS OF TUNNEL PLAY STRUCTURES ARE PROVIDED TO SHOW DESIGN INTENT AND A NORMAL LAYOUT OF STRUCTURAL COMPONENTS AND FABRICATION DETAILING. FINAL CONSTRUCTION OF PLAY STRUCTURES TO BE ACCORDANCE WITH APPROVED SHOP DRAWINGS.

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GUNYAMA PARK

STAGE 2

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[illegible]

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DRAWING TITLE

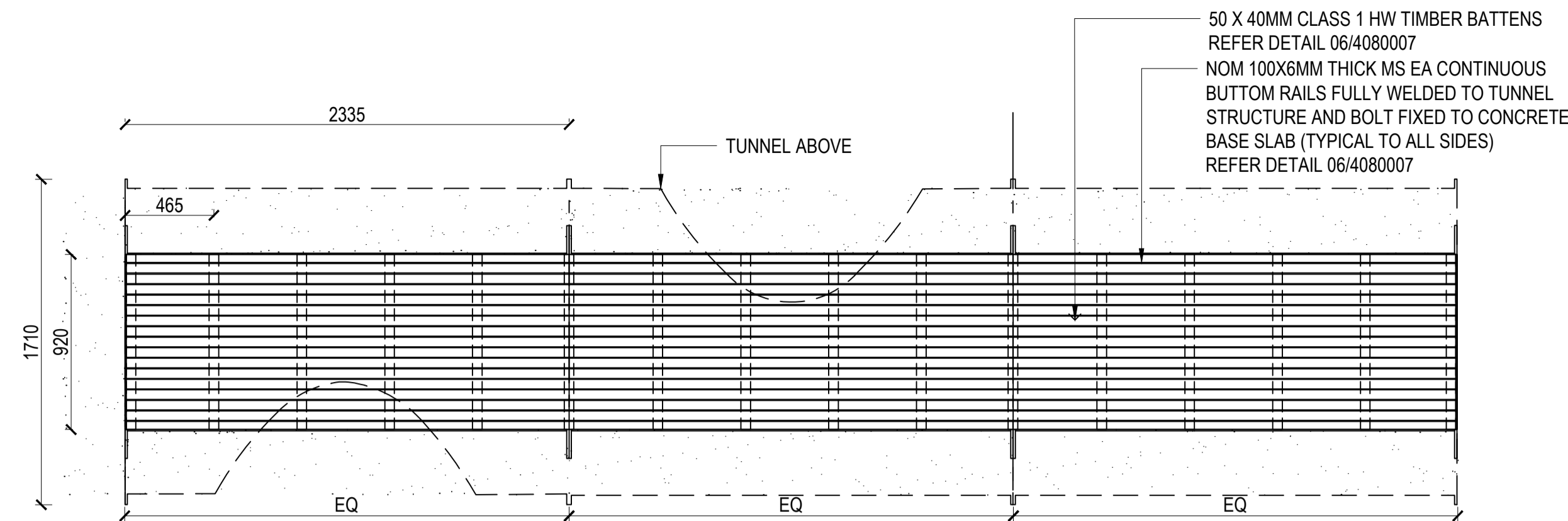
HARDSCAPE DETAILS

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

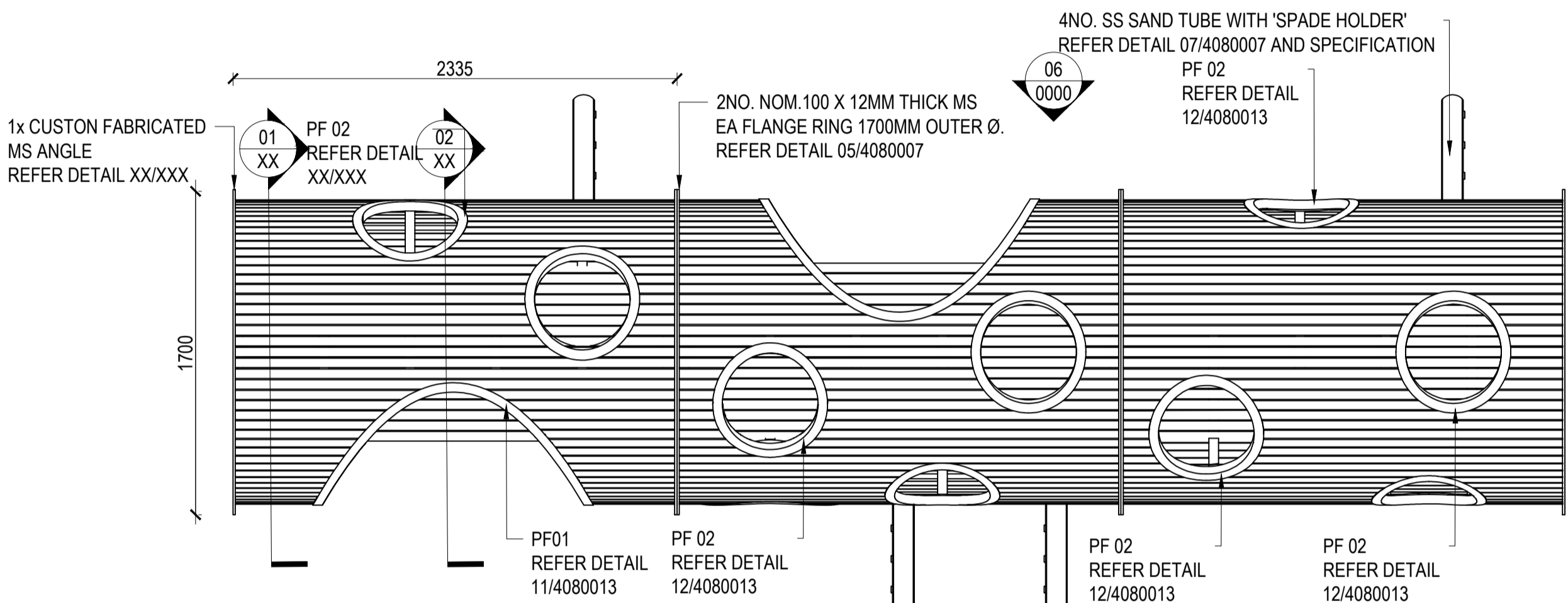


SCALE AS SHOWN @ A1

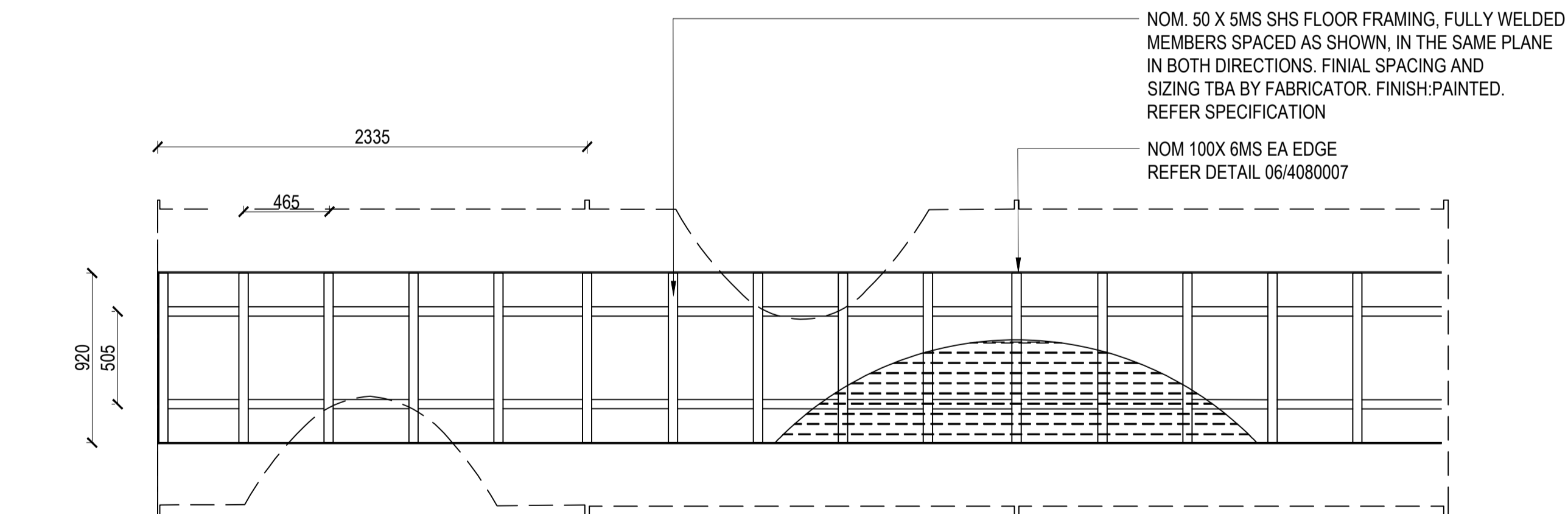
DRAWING NUMBER	REVISION
GP 2522146 902	01



1
903 SURFACE PLAN TODDLER TUNNERL 2 - GROUND LEVEL
SCALE 1:25

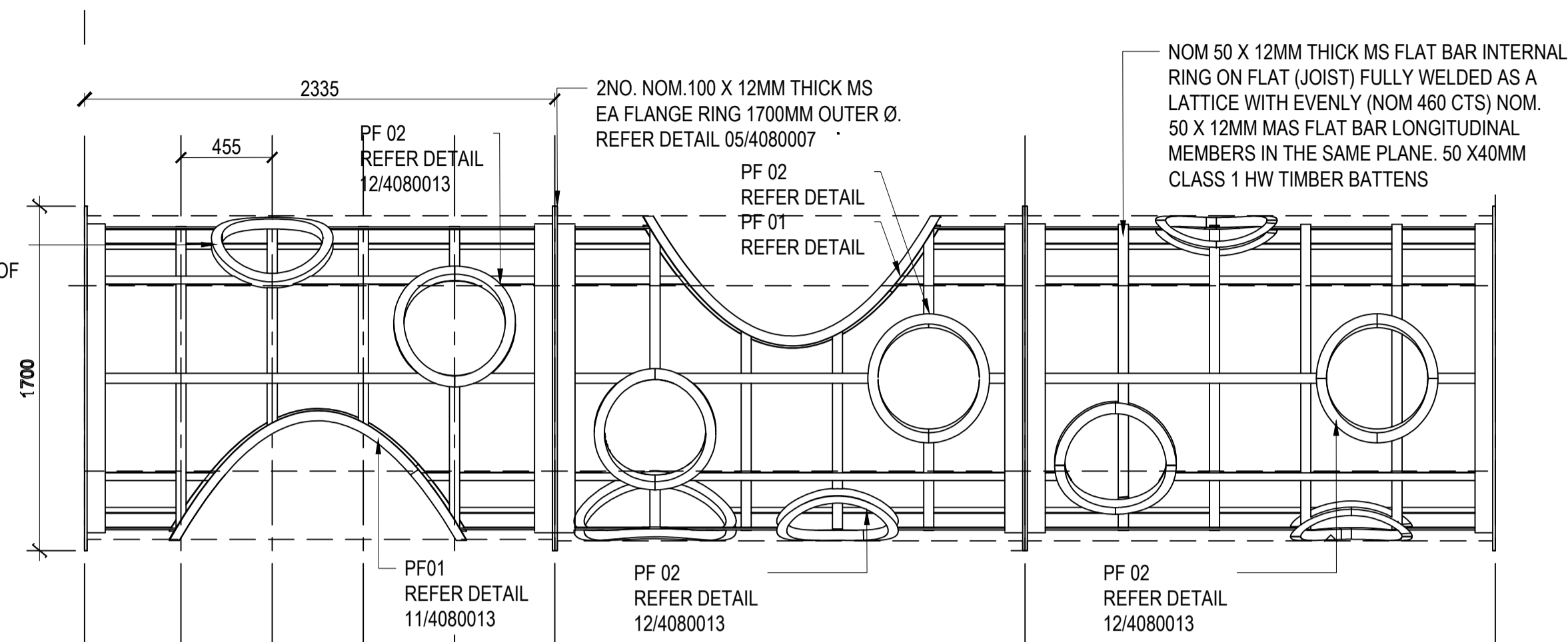


2
903 TOP ELEVATION TODDLER TUNNERL 2
SCALE 1:25



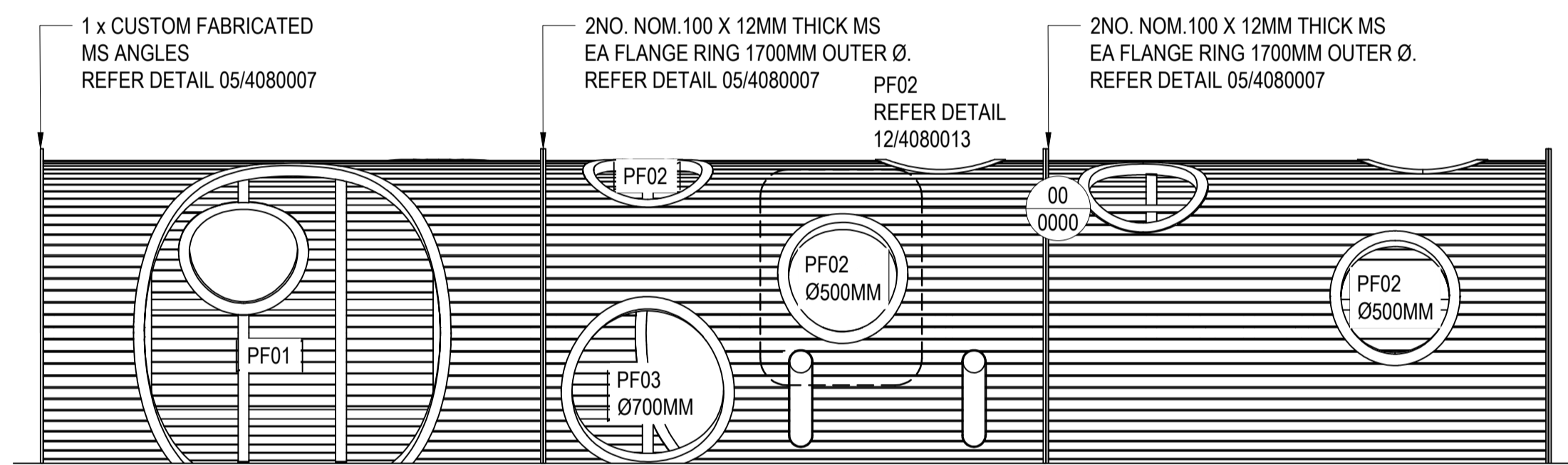
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903 SURFACE PLAN TODDLER TUNNERL 2 - GROUND FLOOR
SCALE 1:25

PF 02 FRAME.
CFW TO FULL PERIMETER OF
CONTACT WITH FRAME

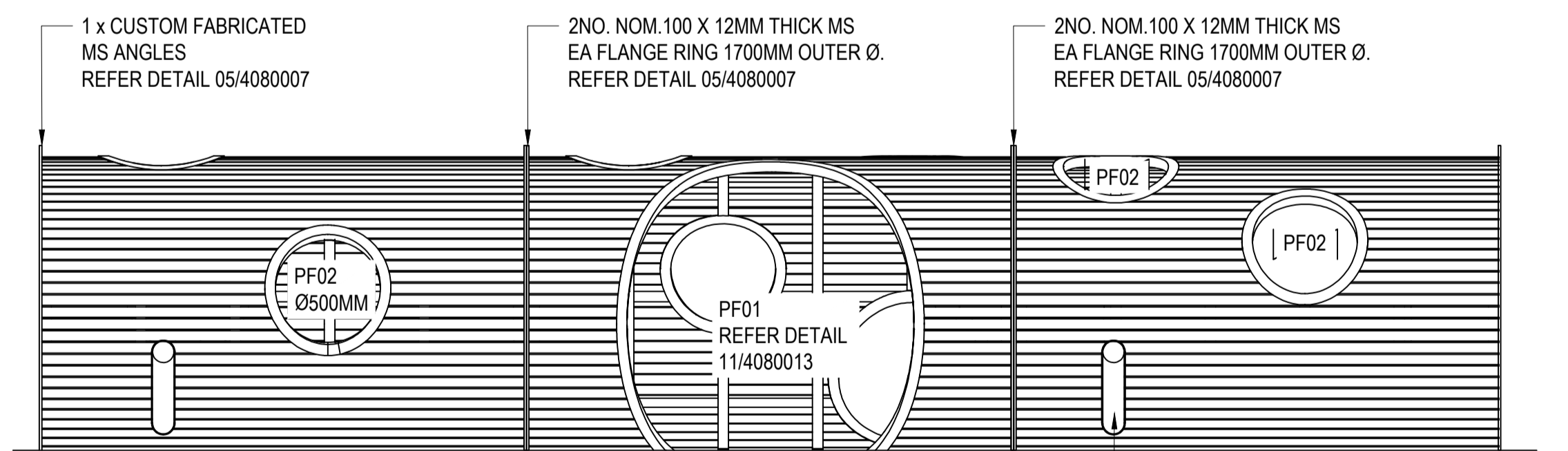


4
903 FRAMING PLAN TODDLER TUNNERL 2 - TOP ELEVATION
SCALE 1:25

TE

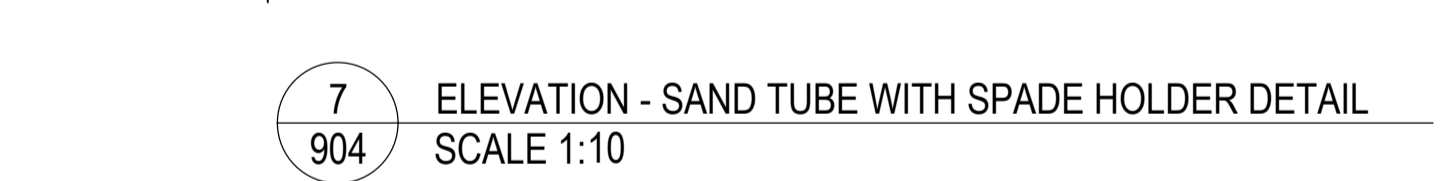
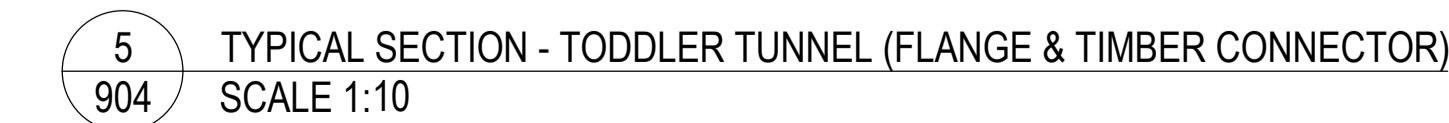
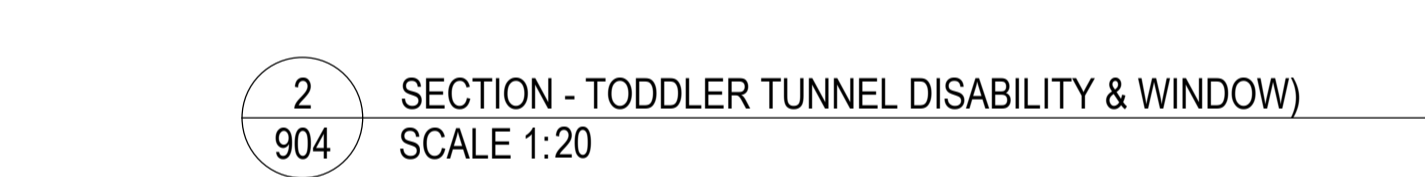


5
903 ELEVATION - TODDLER TUNNERL 2
SCALE 1:25



6
903 ELEVATION - TODDLER TUNNERL 2
SCALE 1:25

2NO. SS SAND TUBE WITH 'SPADE HOLDER'
REFER DETAIL 07/4080007 AND SPECIFICATION



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PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

SCALE AS SHOWN @ A1

DRAWING NUMBER	REVISION
GP 2522146 904	01

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

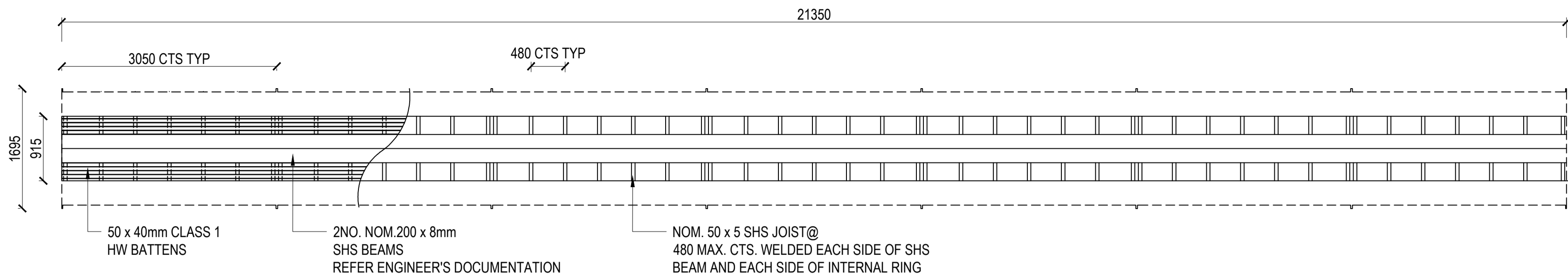
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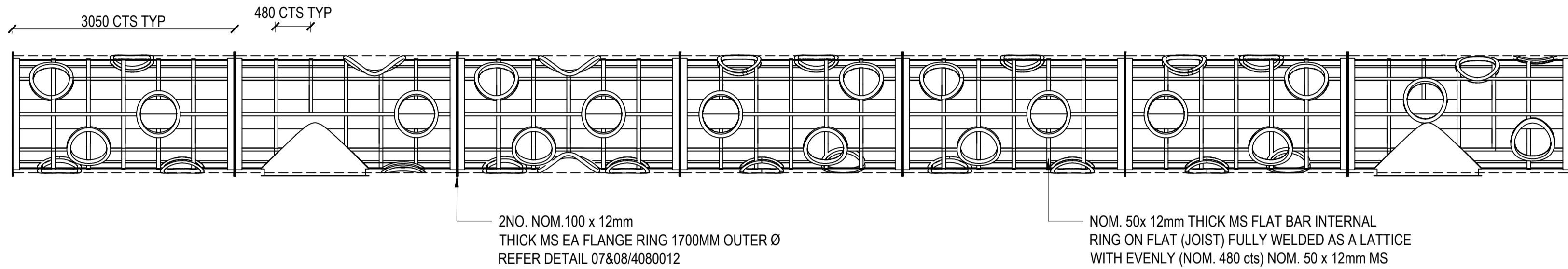
DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



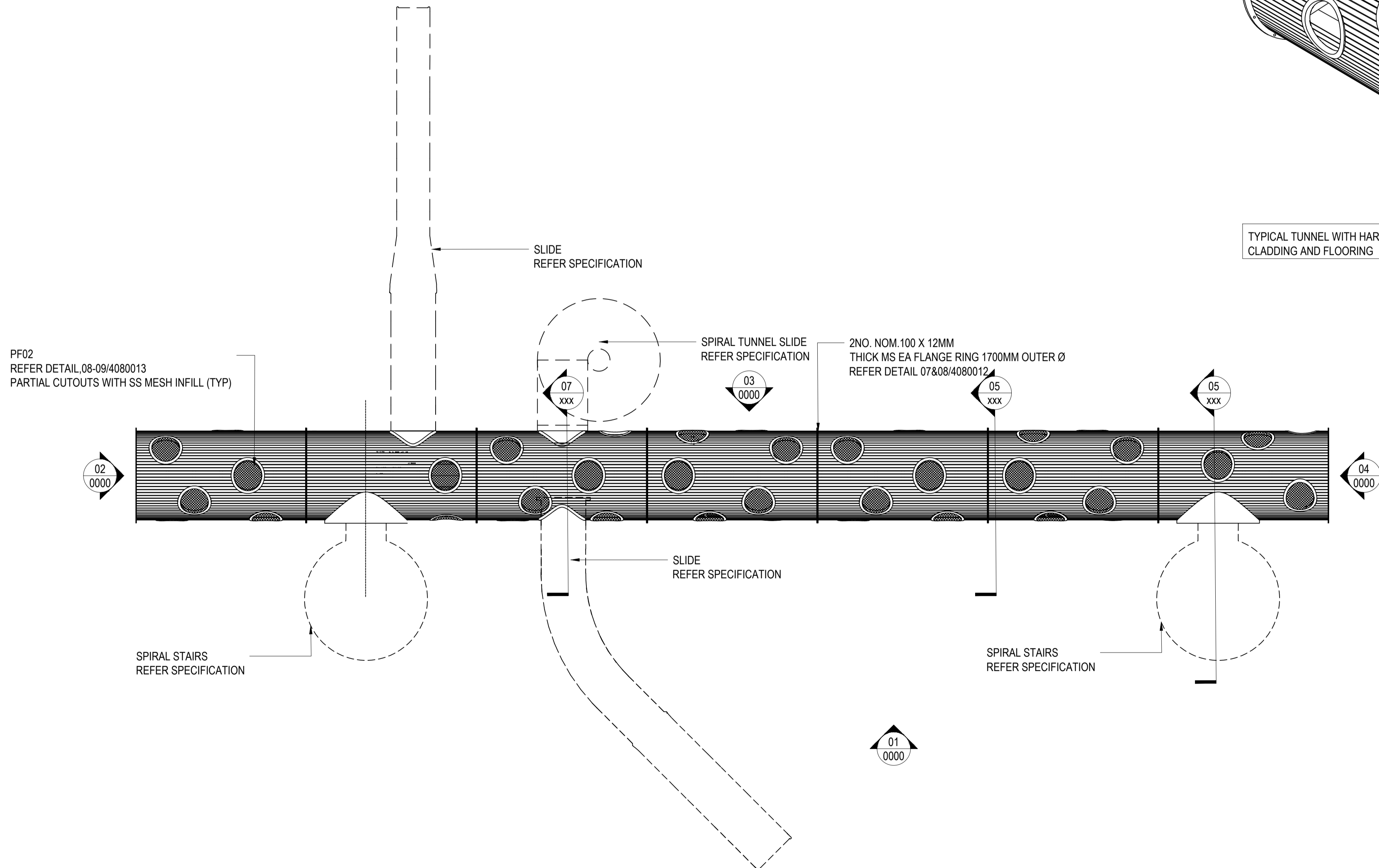
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DRAWING NUMBER	REVISION
GP_2522146_905	01



1	FLOOR PLAN - SLIDE TUNNEL
905	SCALE 1:50

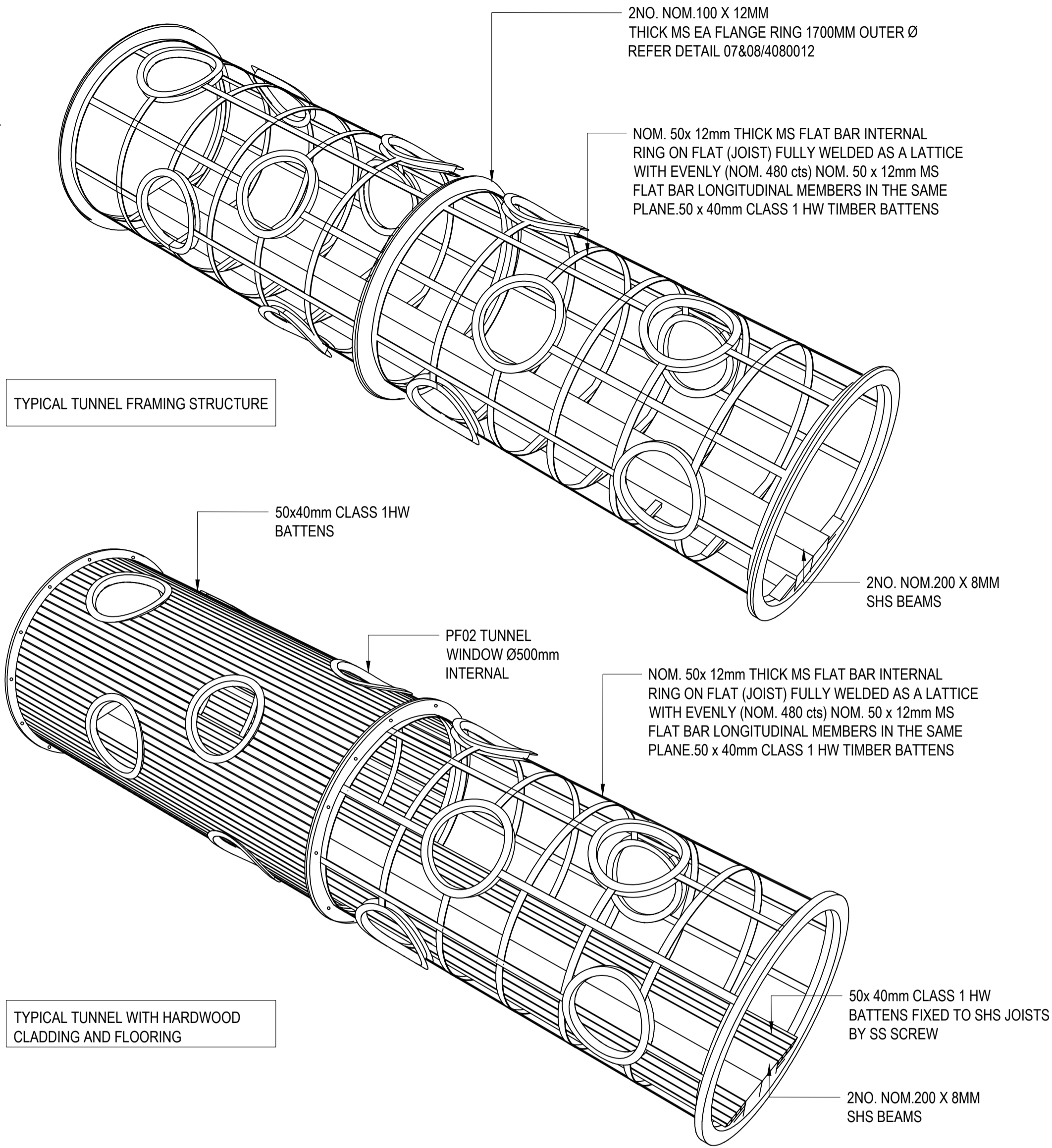


2 FRAME STRUCTURE PLAN - SLIDE TUNNEL
905 SCALE 1:50

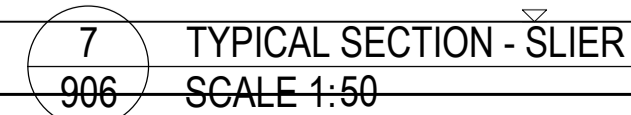
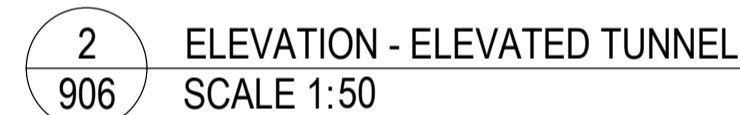
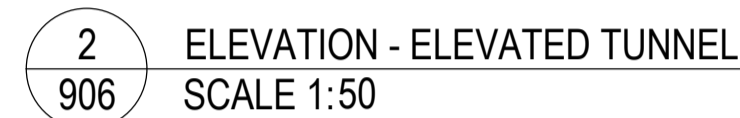
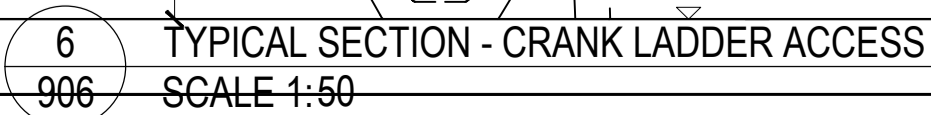
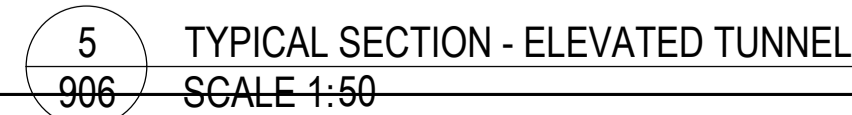
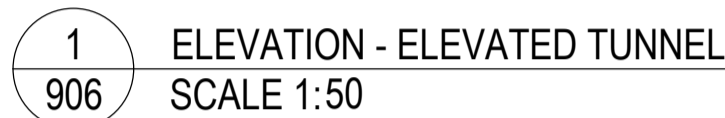


3 PLAN - ELEVATED TUNNEL
905 SCALE 1:50

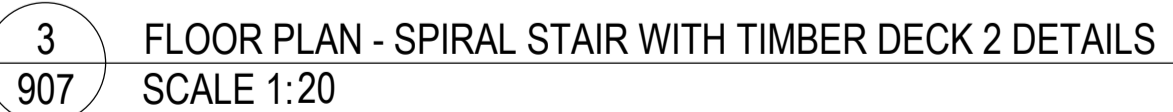
NOTE: DRAWINGS OF TUNNEL PLAY STRUCTURES ARE PROVIDED TO SHOW DESIGN INTENT AND A NORMAL LAYOUT OF STRUCTURAL COMPONENTS AND FABRICATION DETAILING. FINAL CONSTRUCTION OF PLAY STRUCTURES TO BE ACCORDANCE WITH APPROVED SHOP DRAWINGS.



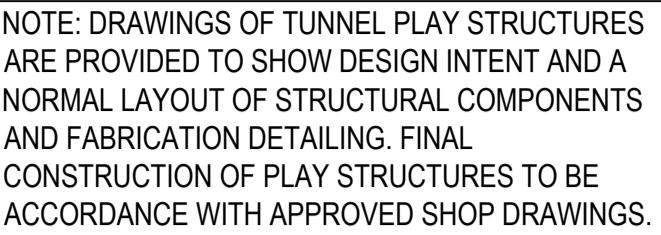
4 TYPICAL TUNNEL DETAIL
905 NTS



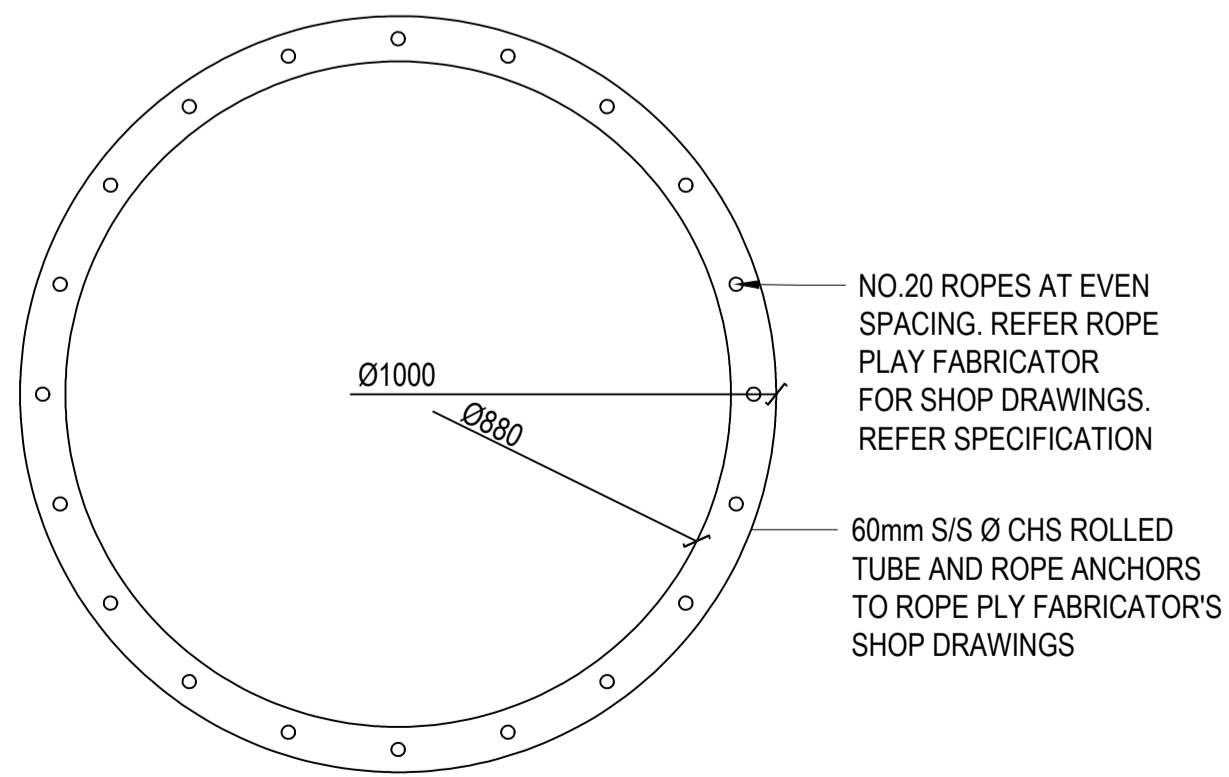
DRAWING NUMBER	REVISION
GP 2522146 906	01



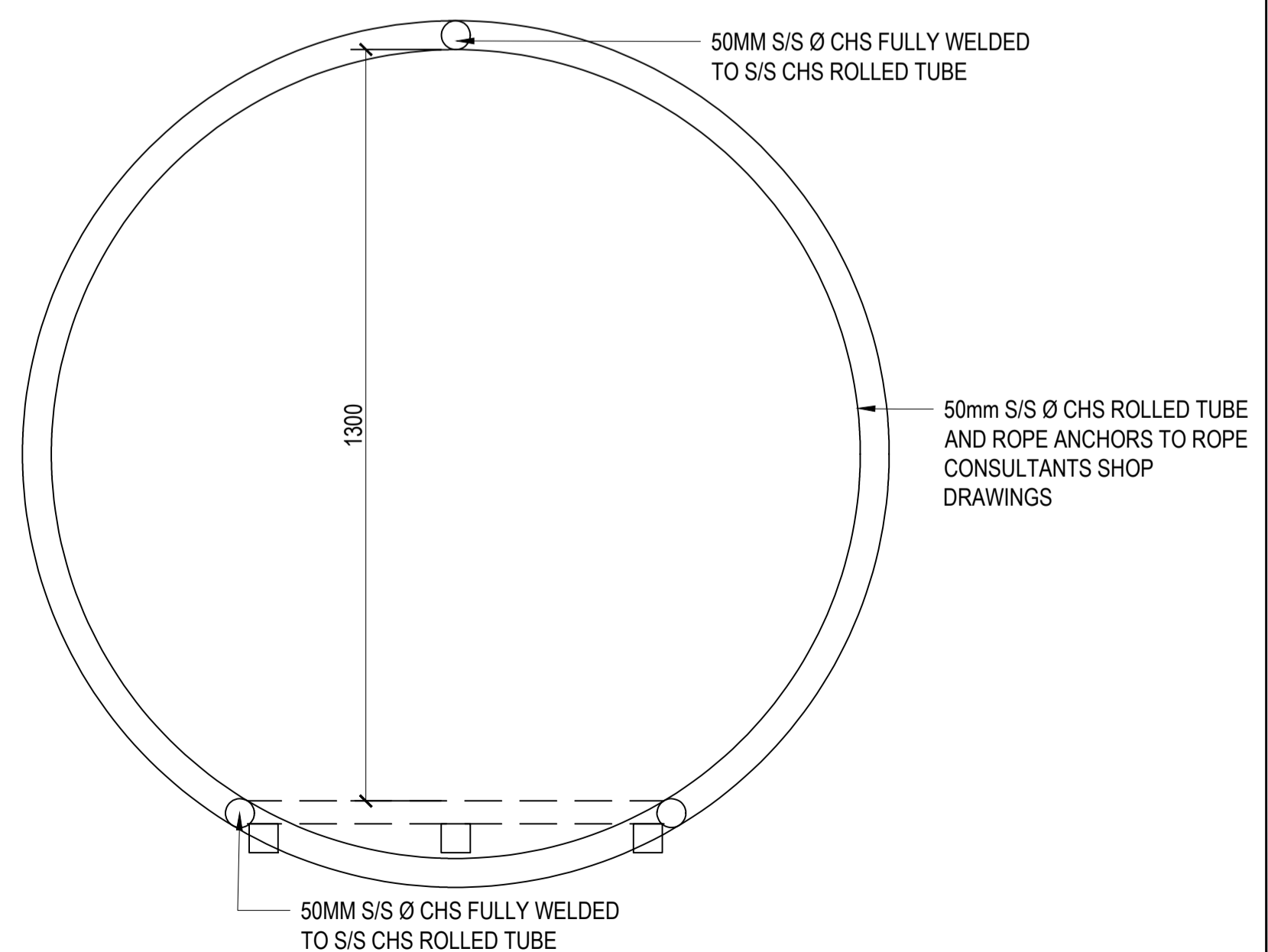
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1	PLAN - CRAWLING NET TUBE TUNNEL - 3 M HIGH
908	SCALE 1:25



3 ELEVATION - TYPICAL CREALIN NET TUBE
908 SCALE 1:10



5
908 ELEVATION - TYPICAL CIRCULAR RING
SCALE 1:10

6 SECTION - TYPICAL CIRCULAR RING
908 SCALE 1:10

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SYDNEY
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Waterloo NSW 2017
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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

DRAFT

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

HARDSCAPE DETAILS

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



SCALE AS SHOWN @ A1

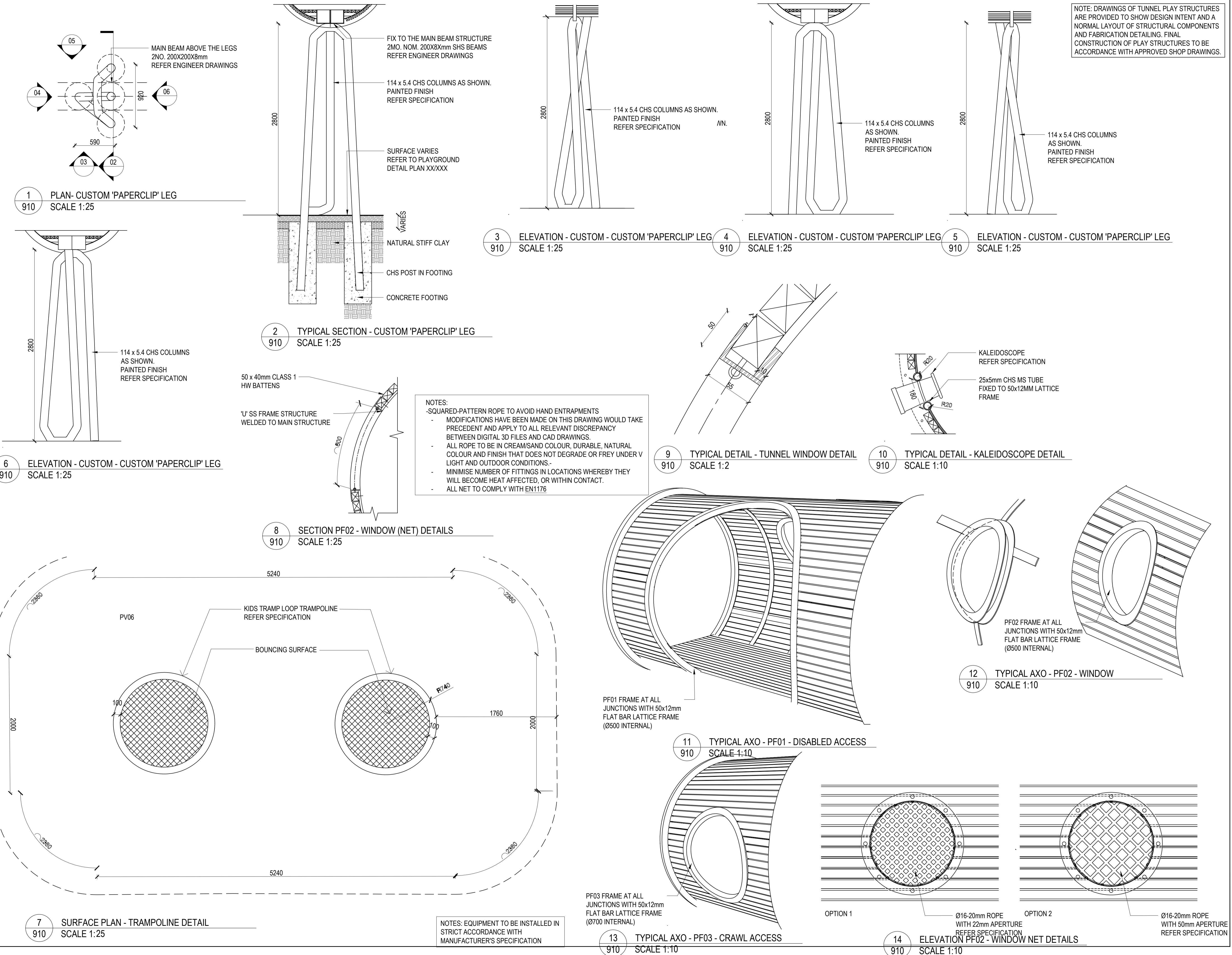
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GP 2522146 907	01

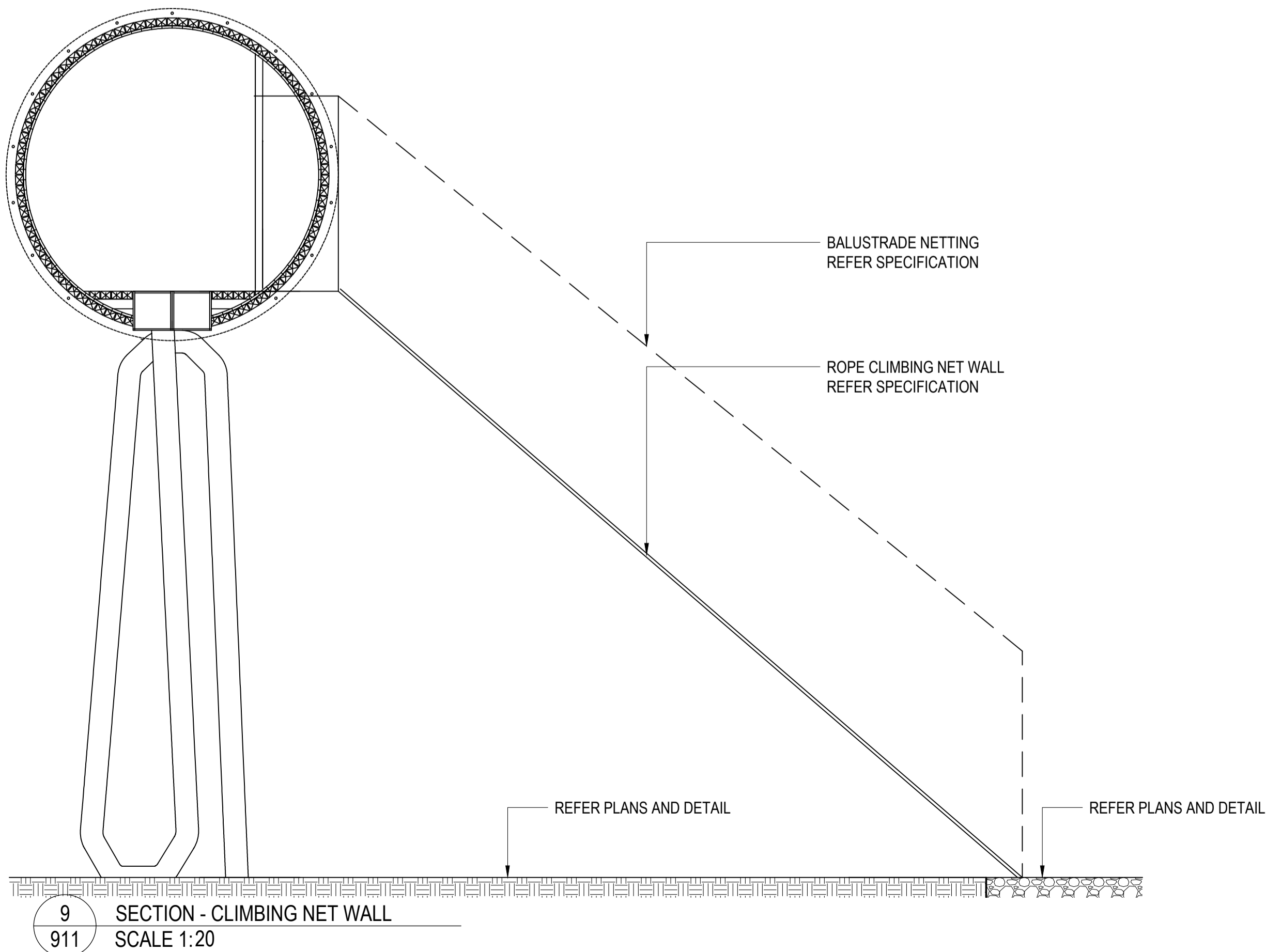
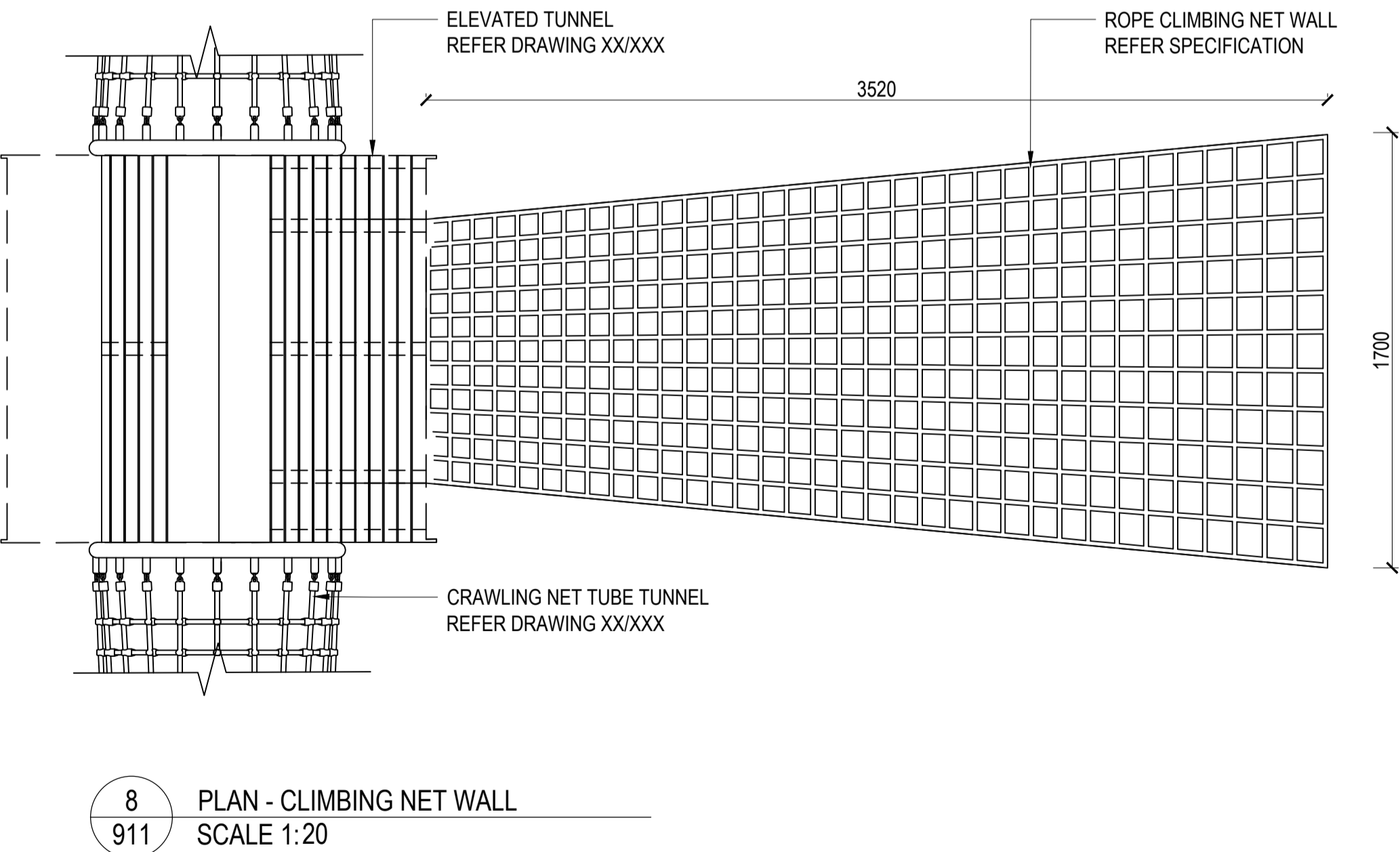
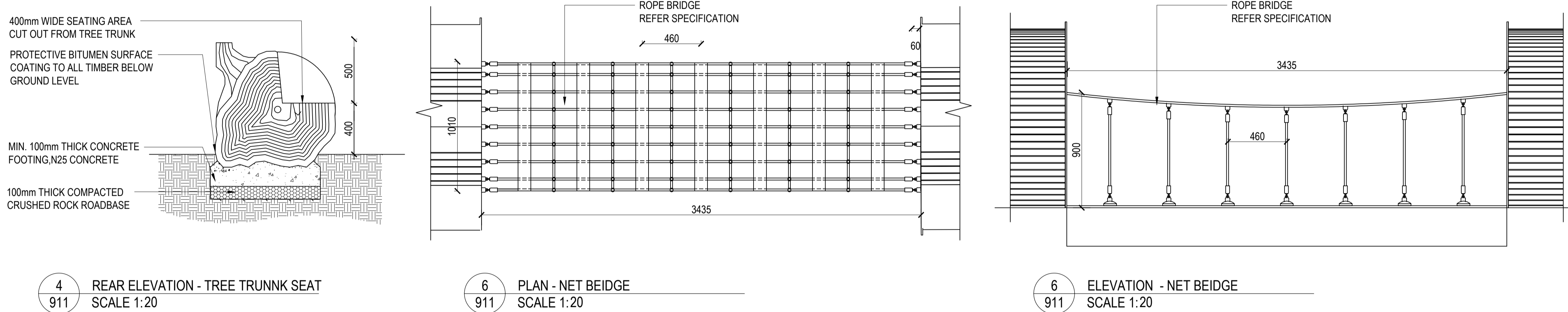
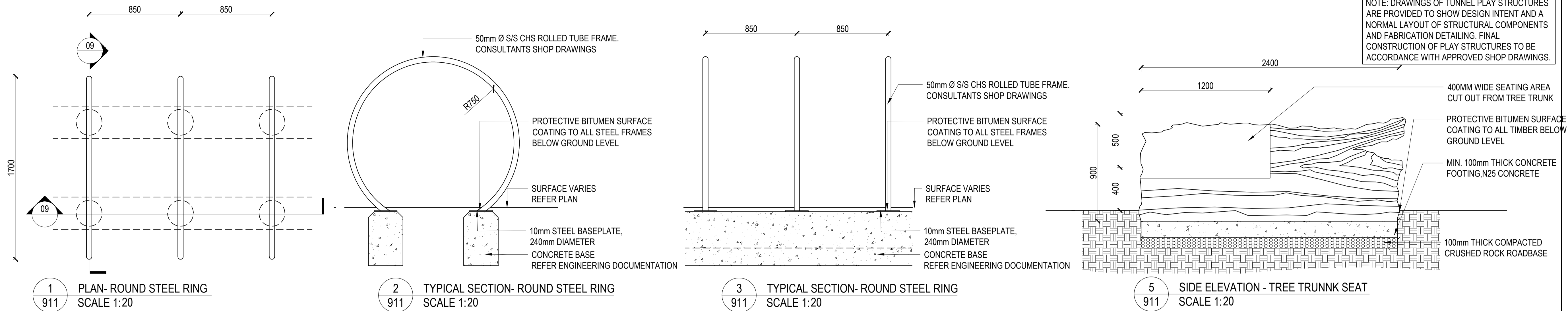


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HARDSCAPE DETAILS

SCALE AS SHOWN @ A1	
DRAWING NUMBER	REV
GP_2522146_910	01





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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

DRAFT

ISSUE	CODE	ISSUE DESCRIPTION	BY	CHK	DATE
01	PRE	50% DESIGN DEVELOPMENT	RH	LI	19.07.2023

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

HARDSCAPE DETAILS

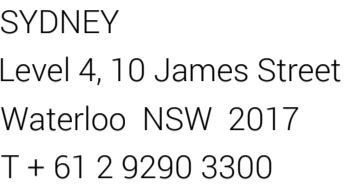
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DOCUMENT : RH
PROJECT : 2522146



SCALE AS SHOWN @ A1

DRAWING NUMBER
GP_2522146_911

REVISION
01



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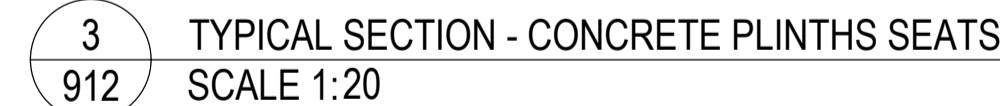
GUNYAMA PARK STAGE 2

CITY OF SYDNEY

NOTES

DRAWING TITLE

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146

REVISION
01

PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

DRAFT

ISSUE	CODE	ISSUE DESCRIPTION	BY	CHK	DATE
01	PRE	50% DESIGN DEVELOPMENT	RH	LI	19.07.2023

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

HARDSCAPE DETAILS

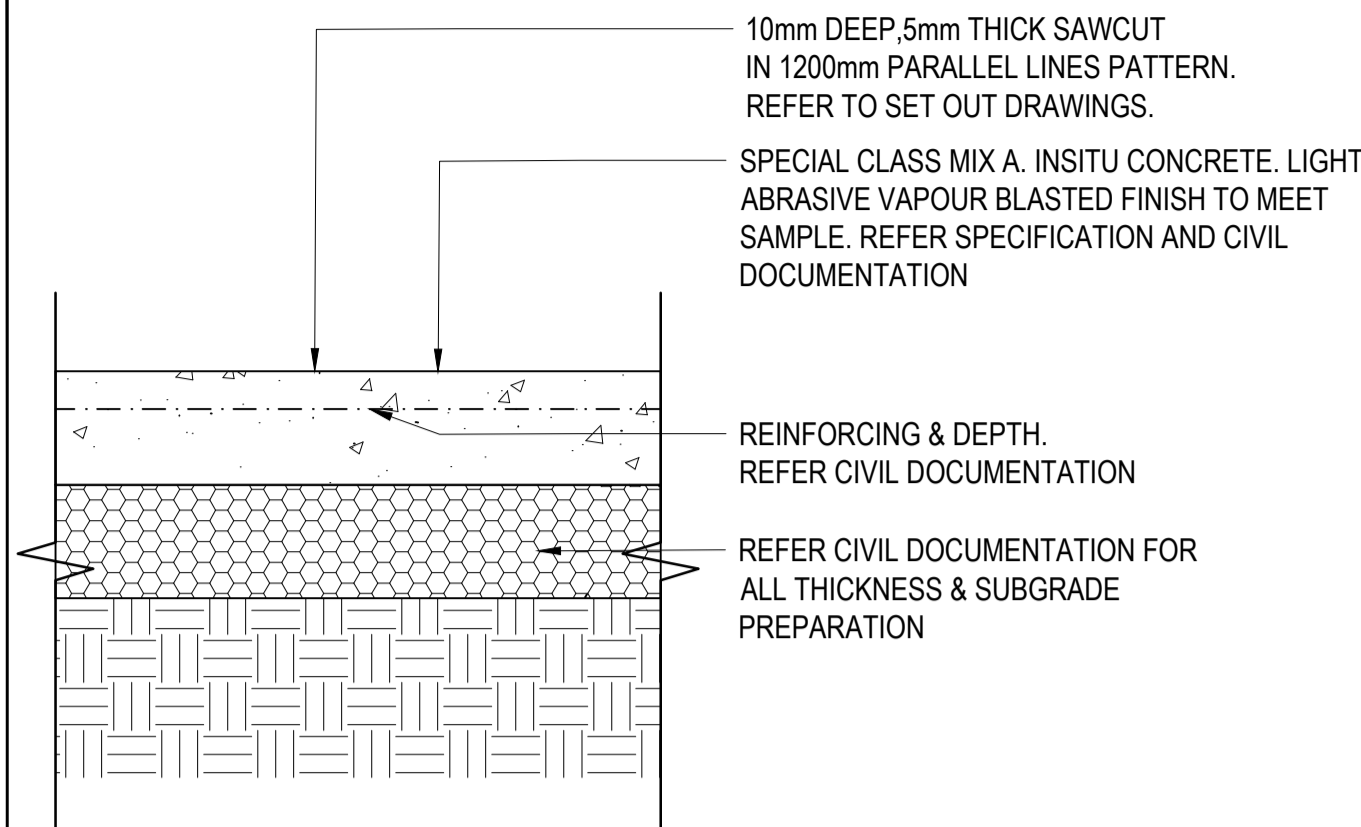
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PROJECT : 2522146



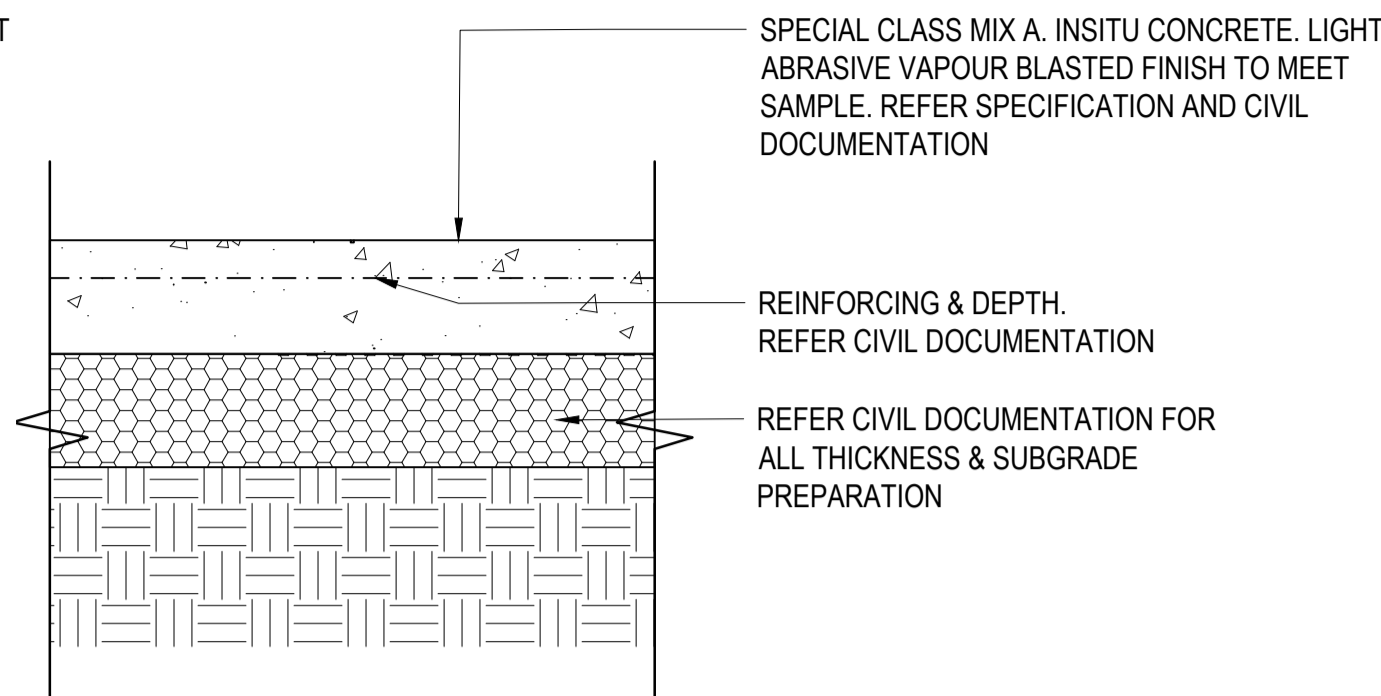
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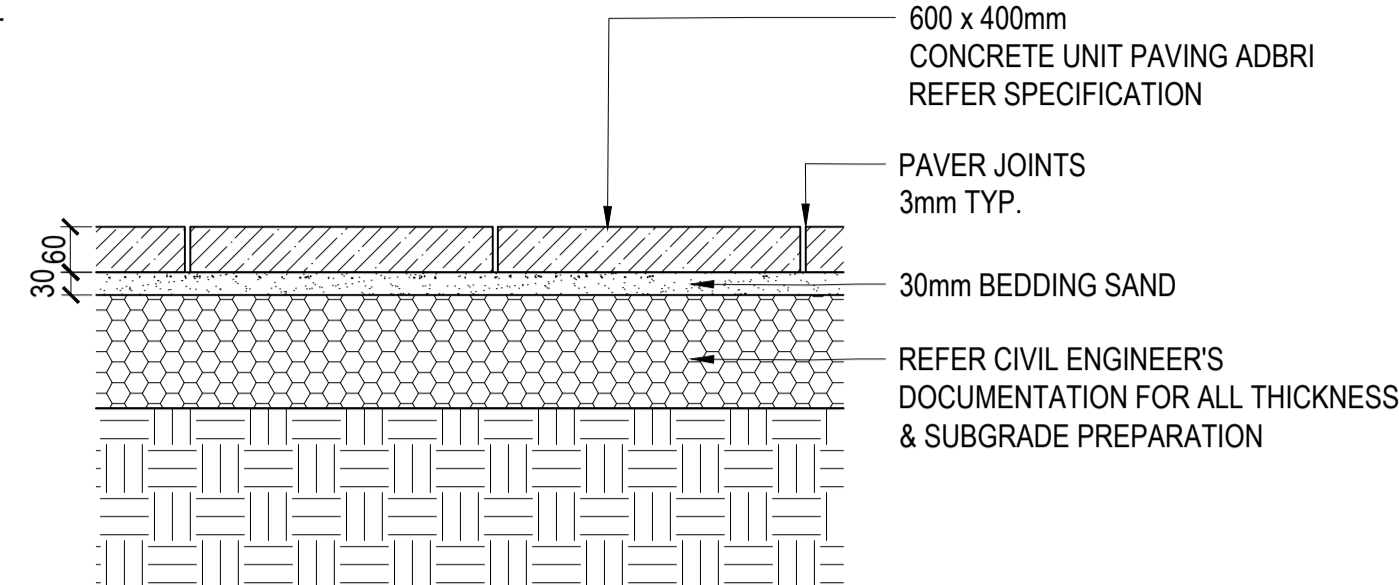
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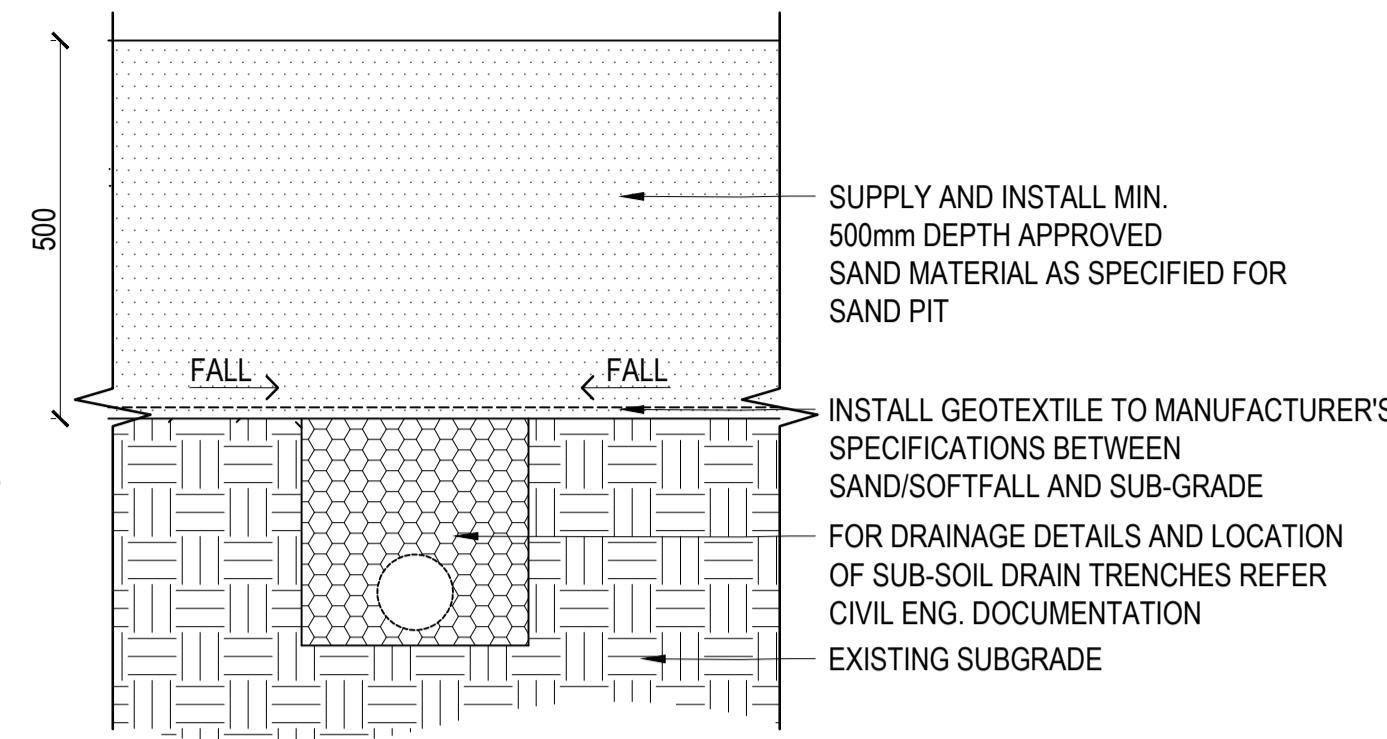
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913
DETAIL - P1 CONCRETE PAVING (TRAFFICABLE)
SCALE 1:10



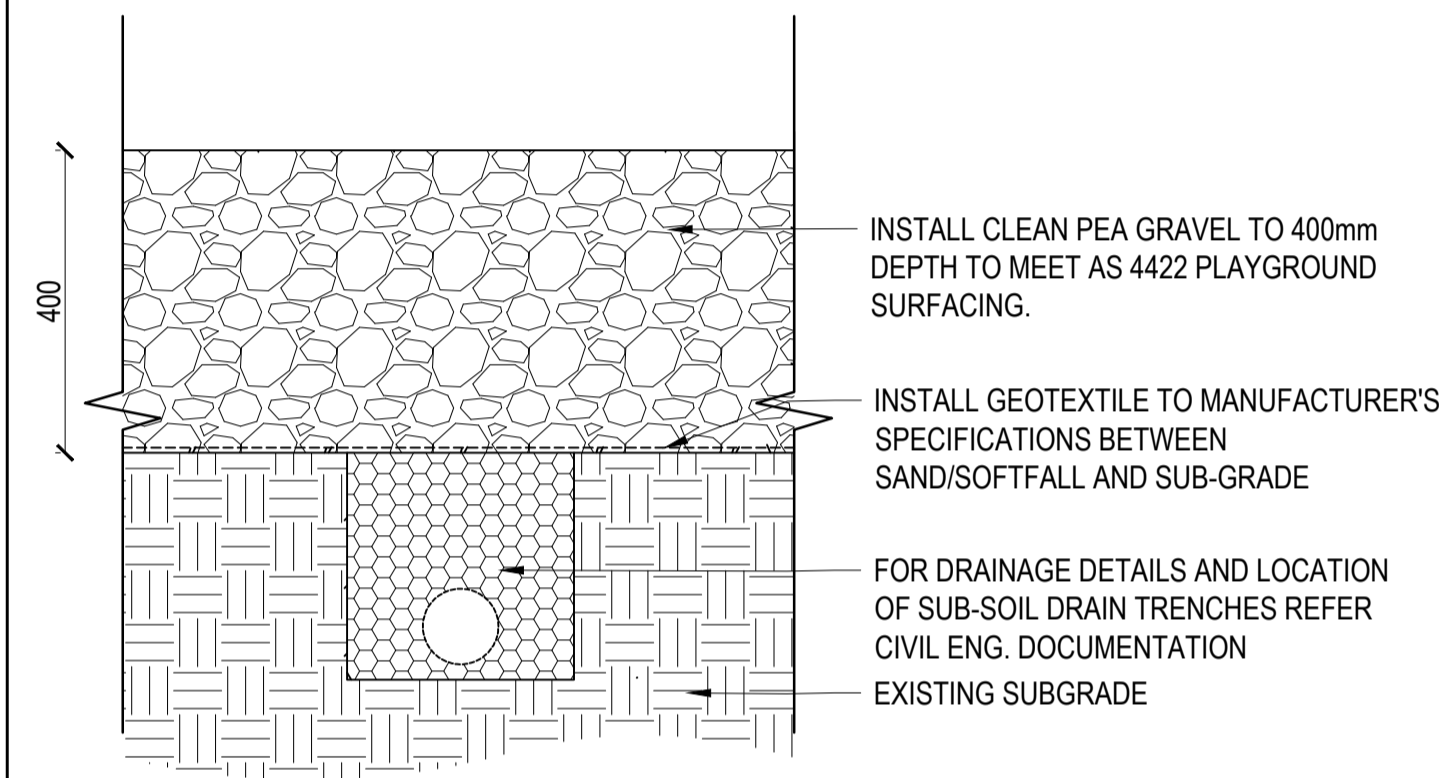
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DETAIL - P2 CONCRETE PAVING (TRAFFICABLE)
SCALE 1:10



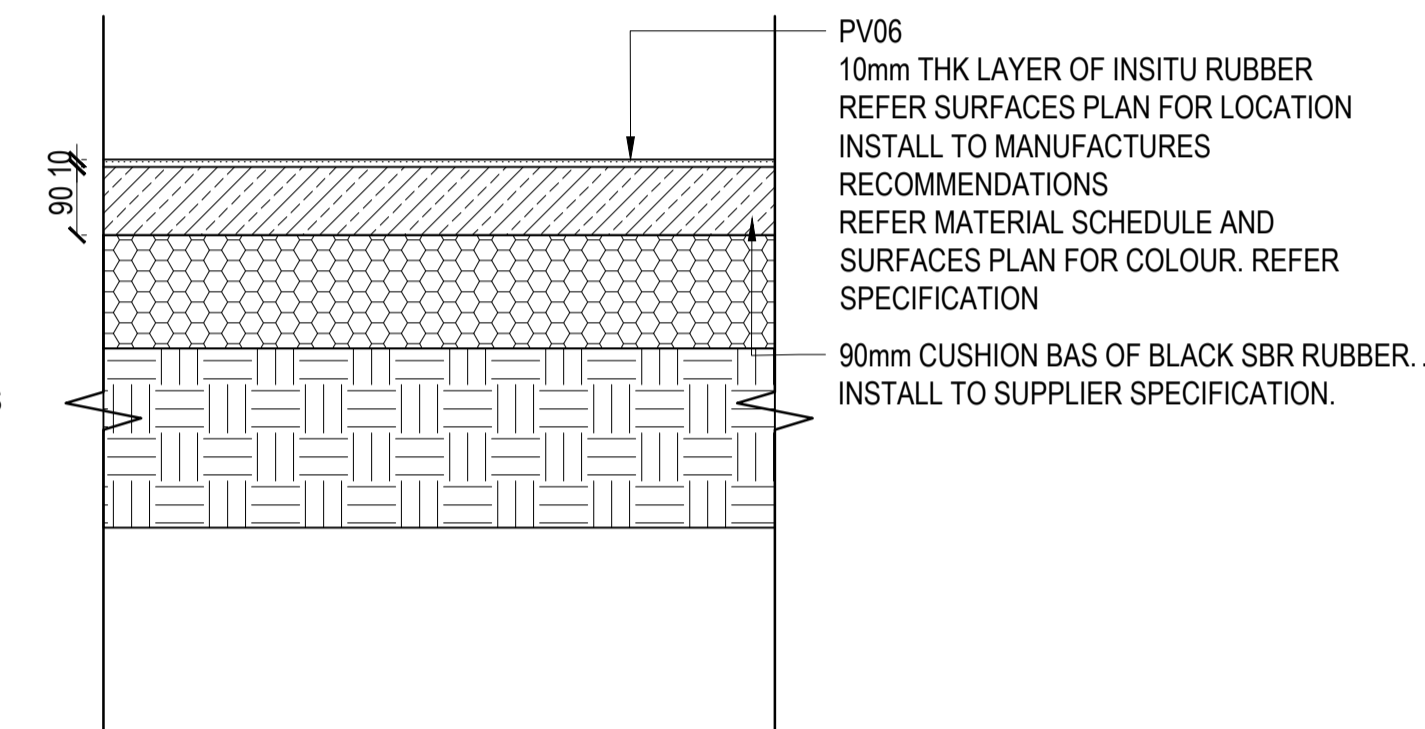
3
913
DETAIL - P3 CONCRETE PAVING (STREETSCAPE)
SCALE 1:10



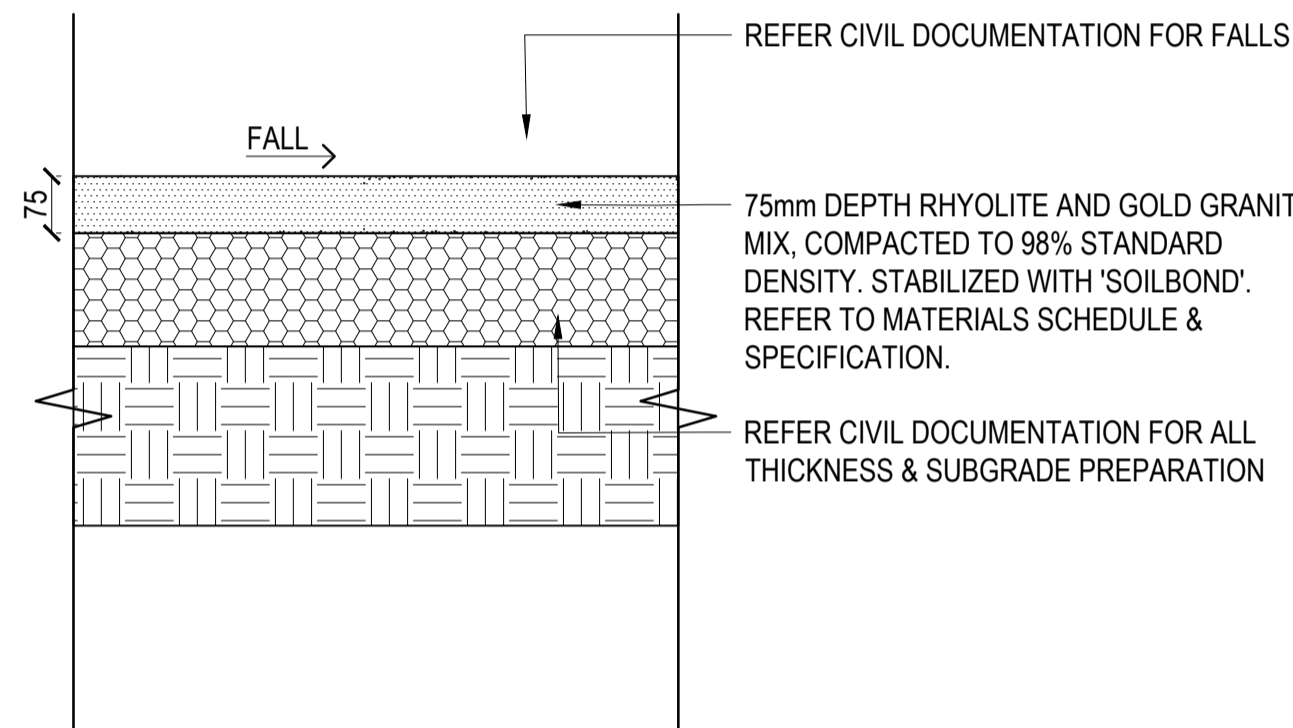
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DETAIL - P4 SOFTFALL SAND
SCALE 1:10



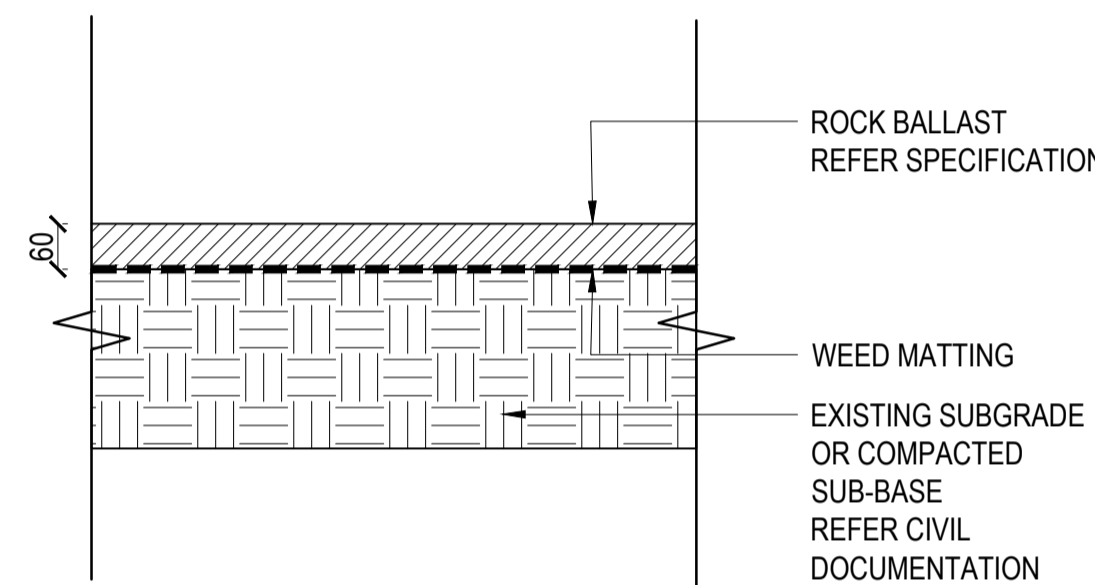
5
913
DETAIL - P5 SOFTFALL PEA GRAVEL
SCALE 1:10



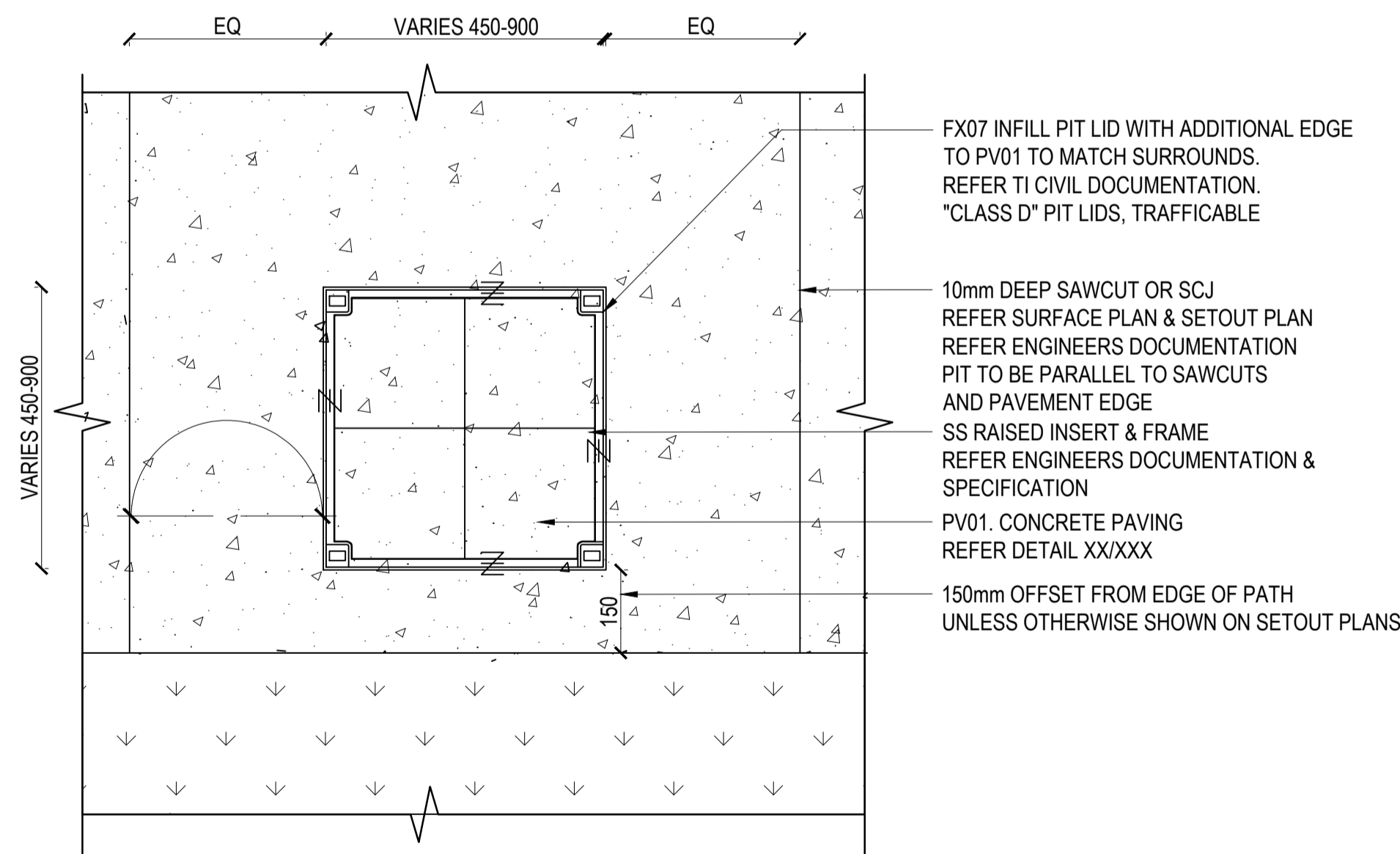
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913
DETAIL - P6 SOFTFALL RUBBER
SCALE 1:10



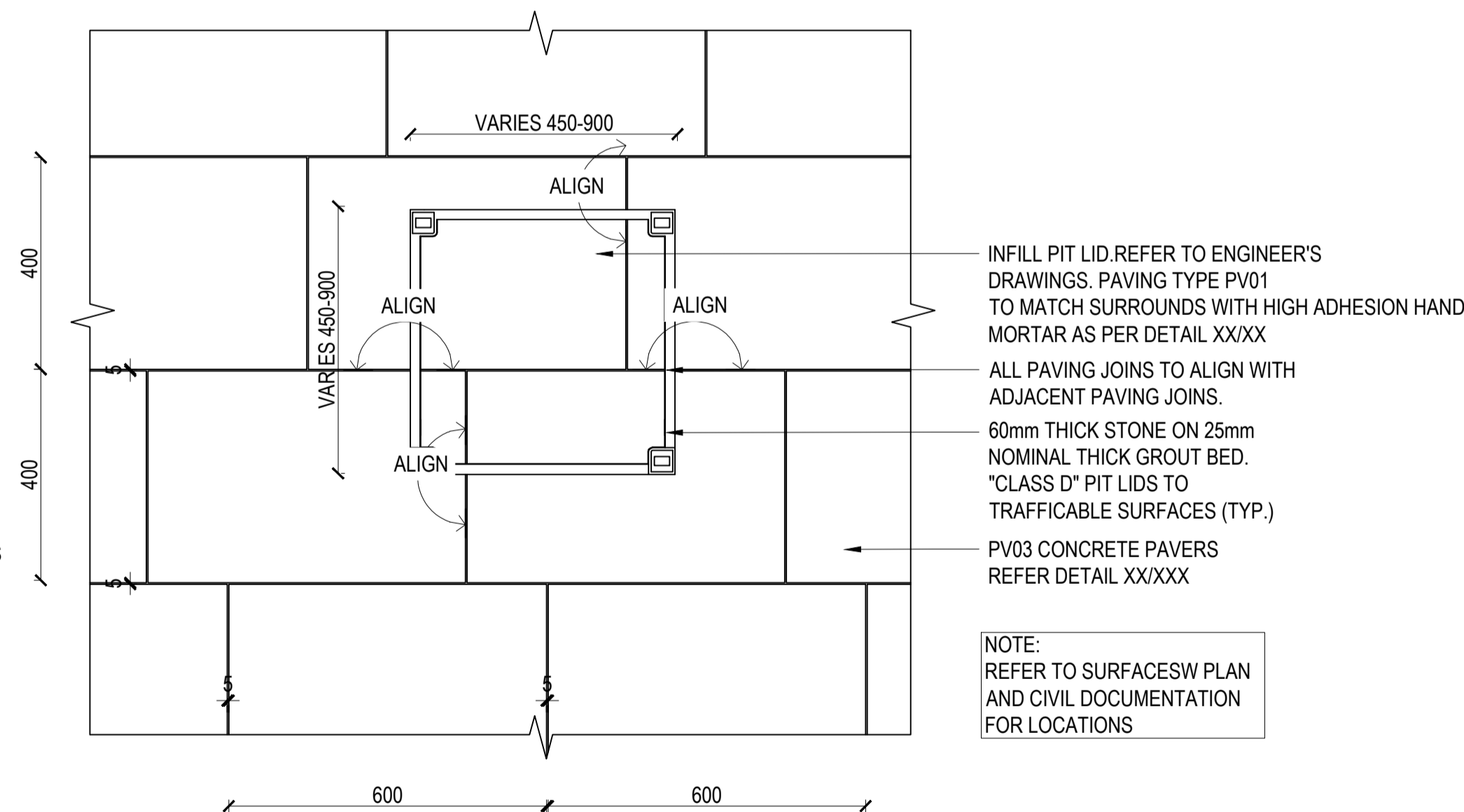
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DETAIL - P6 DECOMPOSED GRANITE
SCALE 1:10



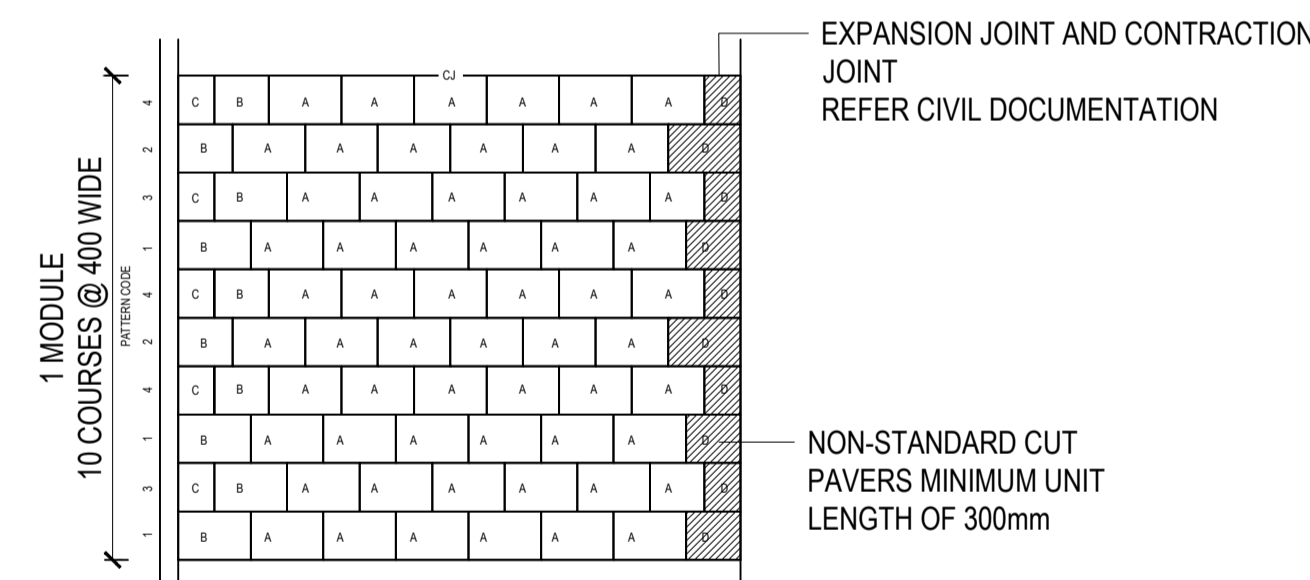
5
913
DETAIL - P7 ROCK BALLAST
SCALE 1:10



8
913
DETAIL - FX07 INFILL PIT LID IN P1
SCALE 1:10

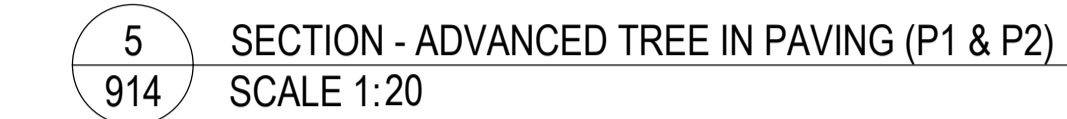
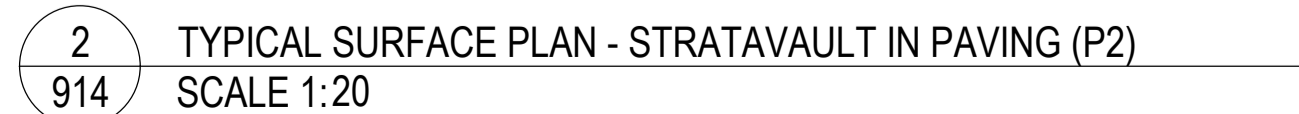


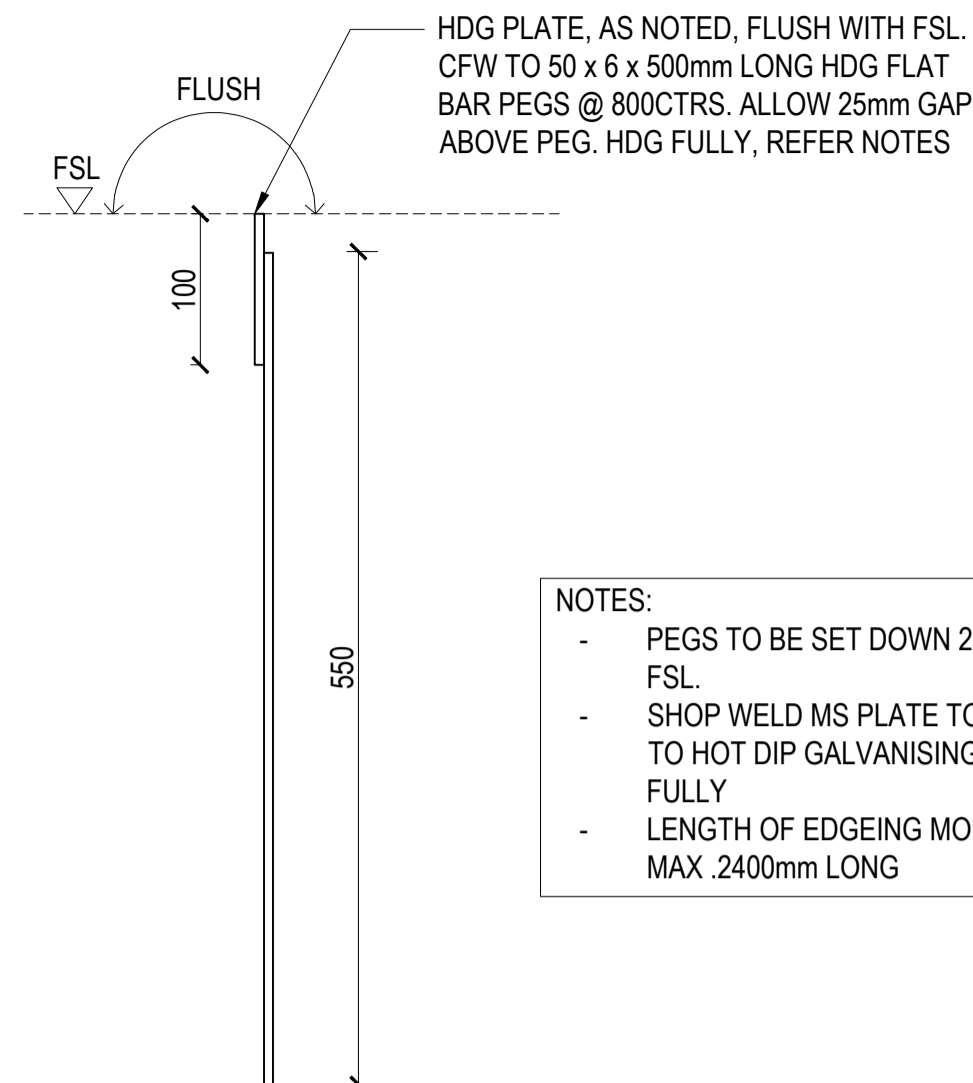
9
913
DETAIL - FX07 INFILL PIT LID IN P3
SCALE 1:10



PAVER SIZES	NOTES
TYPE A: 600x400x60mm	1. MAINTAIN PAVER BAND WIDTH OF 400mm EXCEPT WHERE REQUIRED TO ADJUST PAVERS TO SUIT SITE CONDITIONS, THEN MIN350mm BAND WIDTH OVER min5 COURSE IS ACCEPTABLE
TYPE B: 450x400x60mm	2. 1-3mm GAP REQUIRED BETWEEN PAVERS
TYPE C: 300x400x60mm	3. PAVERS TO BE SETOUT 90° TO BACK OF KERB
TYPE D: SPECIAL CUT (MIN LENGTH 300mm)	
EJ: EXPANSION JOINT	
CJ: CONTRACTION JOINT	

10
913
P3 CONCRETE PAVING TYPICAL MODULE
SCALE 1:10





Technical drawing of a wall section showing a parapet wall with a flat roof. The wall is constructed with a base of blockwork/concrete and a top section of masonry. The roof surface is indicated by a dashed line labeled "FSL" (Finish Surface Line). The wall top is labeled "FLUSH". A dimension of 100 is shown for the height of the wall above the FSL. Callouts indicate "SURFACE VARIES. REFER SURFACES PLANS." and "ANCHOR INTO BLOCKWORK/ CONCRETE REFER STRUCTURAL DOCUMENTATION." and "ANGLE BRACKET CHEM ANCHOR FIXED. REFER STRUCTURAL DOCUMENTATION".

CONCRETE EDGE COLOUR
TO MATCH PV01
REFER TO MATCH PV01
REFER DETAIL XX/XXX &
SPECIFICATION

SL02, SYNTHATIC TURF
REFER DETAIL XX/XXX

100

150

SL01, NATURAL TURF
REFER DETAIL XX/XXX

PV03. STREETSCAPE PAVING
REFER DETAIL XXXXX

PV01/PV02. CONCRETE PAVING
REFER DETAIL XXXXX

150

100

150

This diagram shows a cross-section of a curb and gutter assembly. The curb is a concrete structure on the left, with a height of 150 units. The gutter is a channel on the right, with a depth of 60 units. The gutter is lined with a material labeled PV06. SOFTFALL RUBBER. REFER DETAIL XX/XXX. The gutter is filled with a material labeled PV02. CONCRETE PAVING. REFER DETAIL XX/XXX. The gutter is shown with a cross-hatched pattern. The curb is shown with a solid pattern. The gutter is shown with a dashed line indicating the edge of the rubber lining. The gutter is shown with a cross-hatched pattern. The gutter is shown with a dashed line indicating the edge of the rubber lining. The gutter is shown with a cross-hatched pattern. The gutter is shown with a dashed line indicating the edge of the rubber lining.

Diagram illustrating the cross-section of a garden bed construction, showing layers and dimensions:

- PV02. CONCRETE PAVING** (Refer Detail XX/XXX)
- SL04 GARDEN BED** (Refer Detail XX/XXX & SPECIFICATION)
- Dimensions:**
 - Top layer (Concrete Paving): 150
 - Second layer (Garden Bed): 150
 - Third layer (Garden Bed): 200
 - Bottom layer (Garden Bed): 300
 - Right side total height: 75

RELOCATED SEAT TYPE 1.
REFER FURNITURE & FIXTURES SCHEDULE & SPECIFICATION

PV01. CONCRETE PAVING
REFER DETAIL XX/XXX

540

PV08. DECOMPOSED GRANITE.
REFER DETAIL XX/XXX

ED01. REFER DETAIL XX/XXX

SL04 GARDEN BED
REFER DETAIL XX/XXX & SPECIFICATION

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DRAWING TITLE

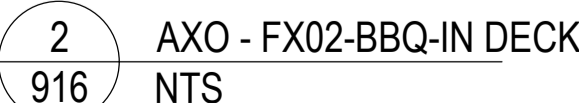
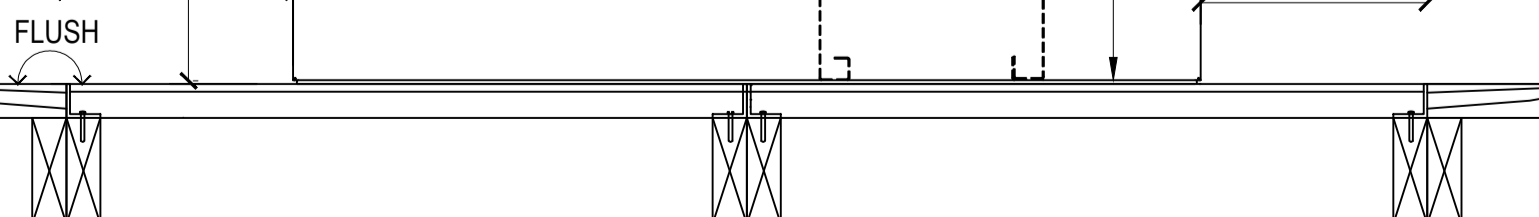
HARDSCAPE DETAILS

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



SCALE AS SHOWN @ A1

DRAWING NUMBER	REVISION
GP_2522146_915	01



— BBQ BENCH BASE STRUCTURE
REFER SPECIFICATION

NOTES

DRAWING NUMBER	REVISION
GP 2522146 916	01

PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

DRAFT

ISSUE	CODE	ISSUE DESCRIPTION	BY	CHK	DATE
01	PRE	50% DESIGN DEVELOPMENT	RH	LI	19.07.2023

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

HARDSCAPE DETAILS

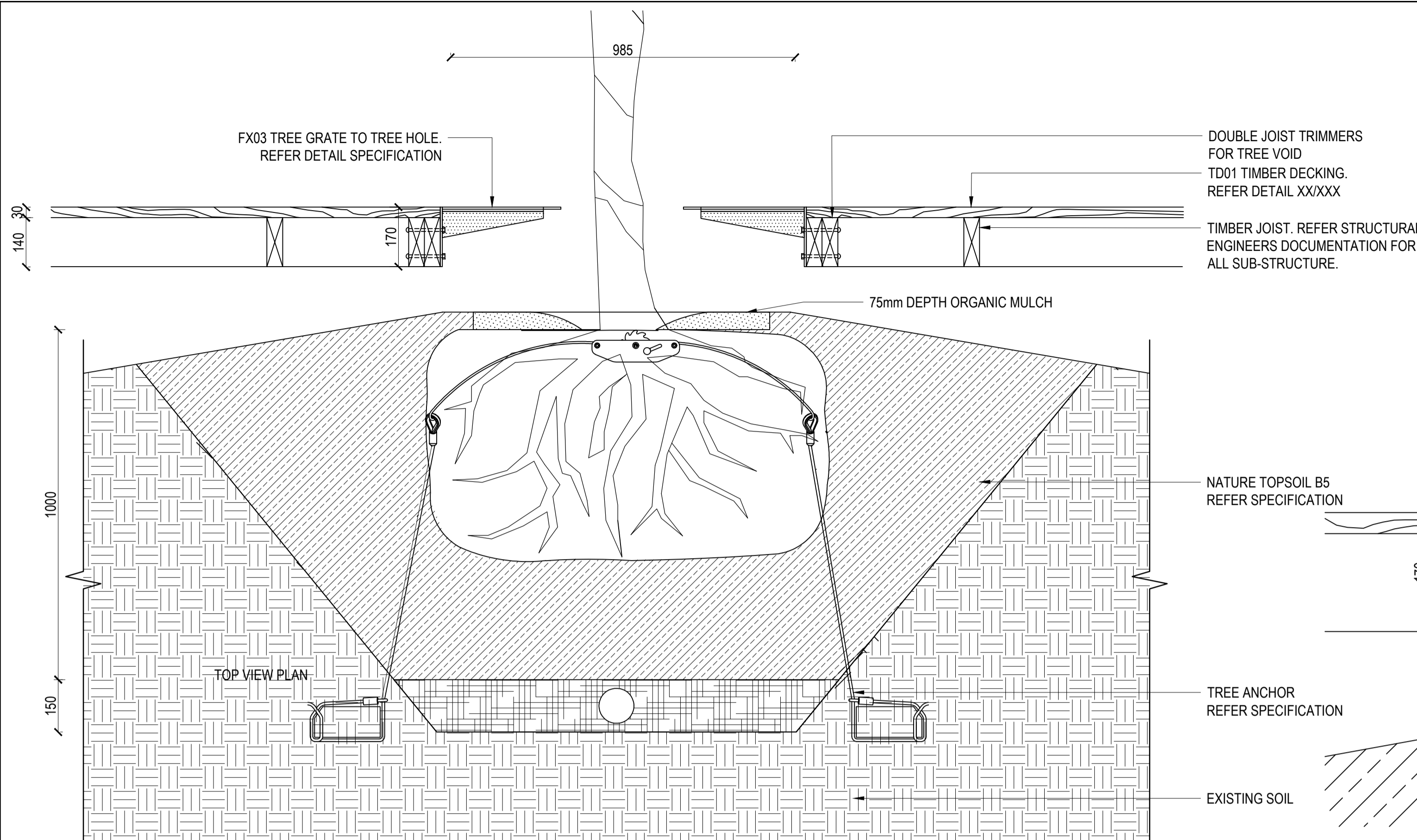
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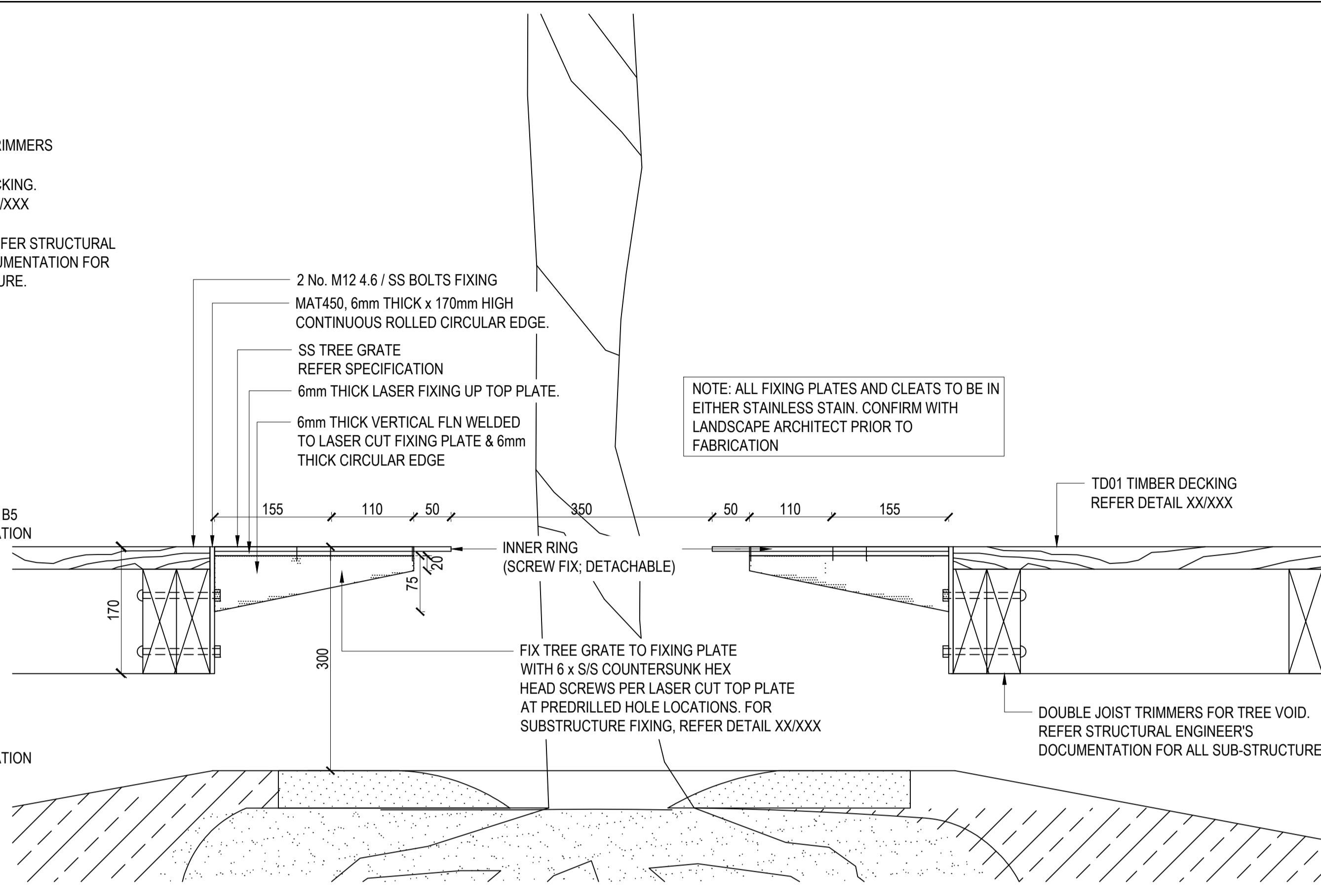
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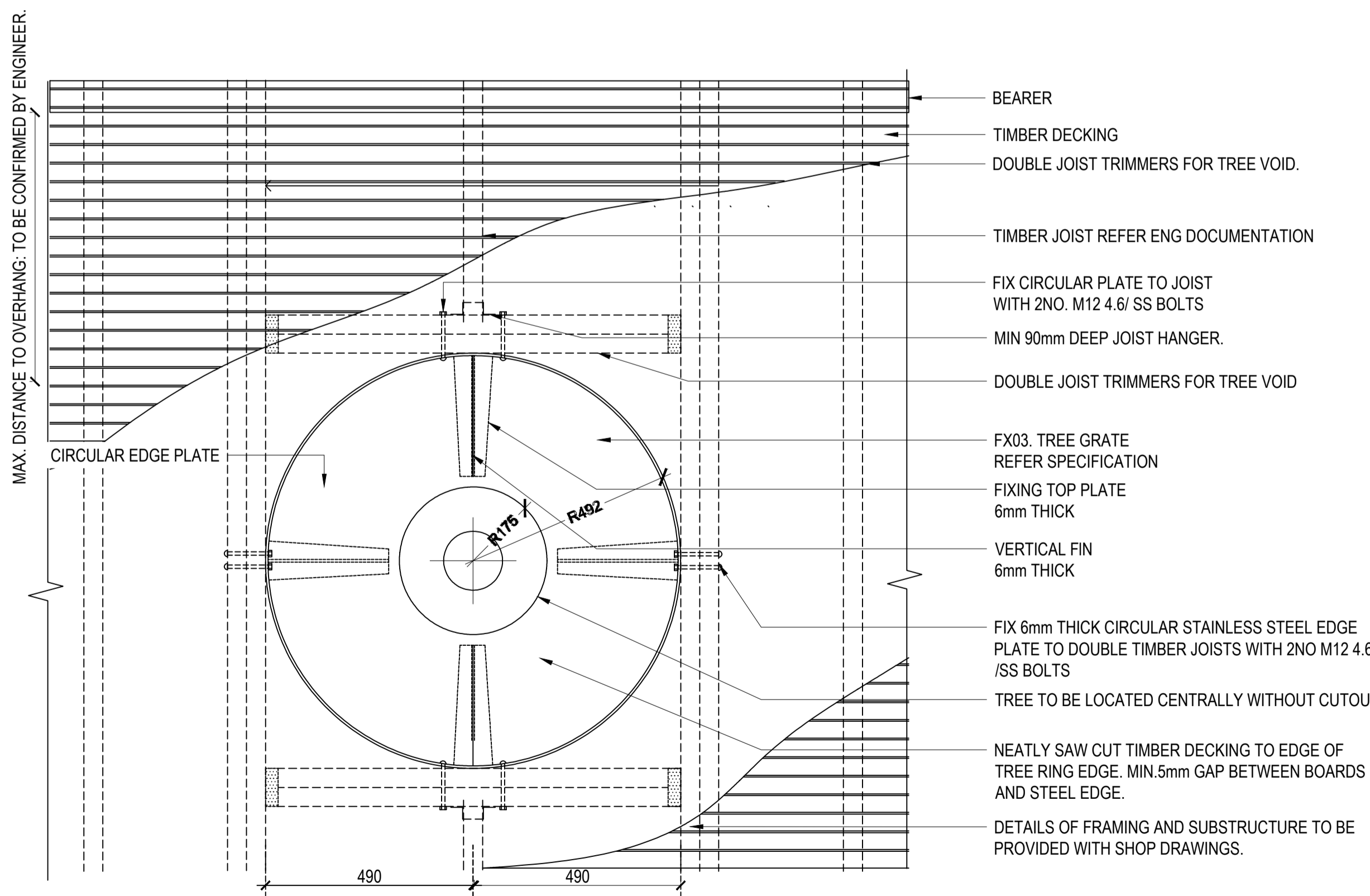
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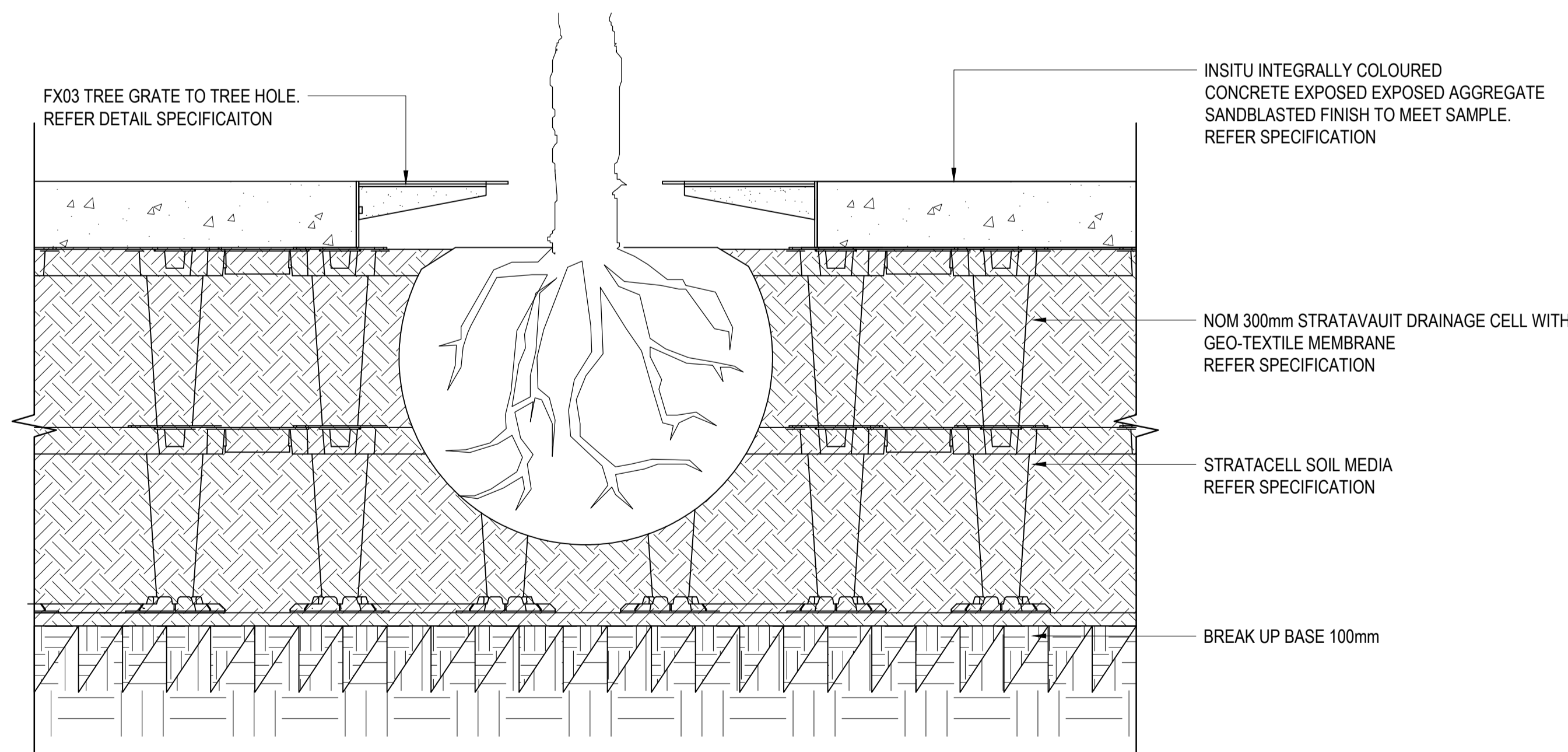
1
917 TYPICAL SECETION - FX03 TREE GRATE IN TIMBER DECK TD01
SCALE 1:10



2
917 SECETION - FX03 TREE GRATE IN TIMBER DECK FIXING
SCALE 1:5



3
917 TYPICAL PLAN - FX03 TREE GRATE IN TIMBER DECK SUBSTRUCTURE FIXING
SCALE 1:10



4
917 FX03 TREE GRATE IN CONCRETE
SCALE 1:10

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GUNYAMA PARK
STAGE 2

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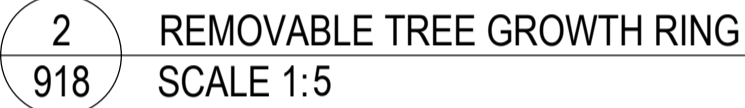
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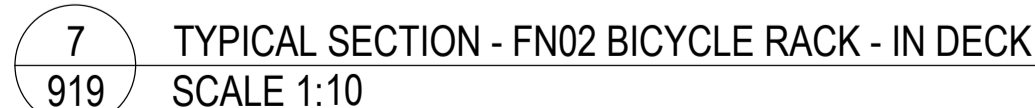
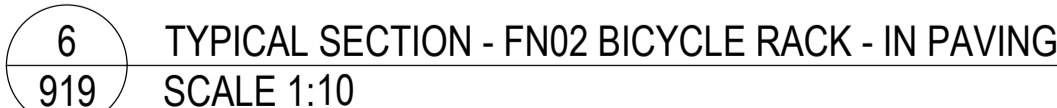
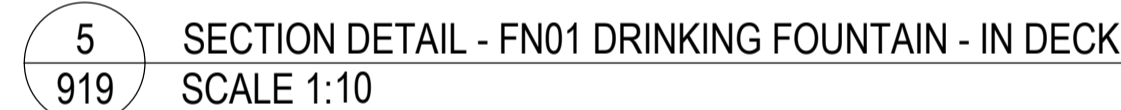
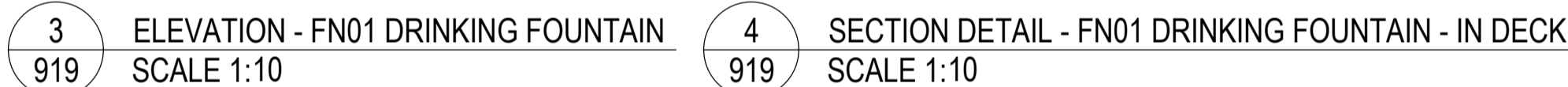
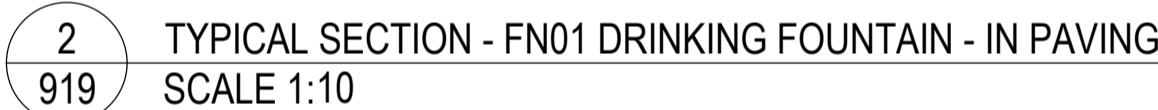
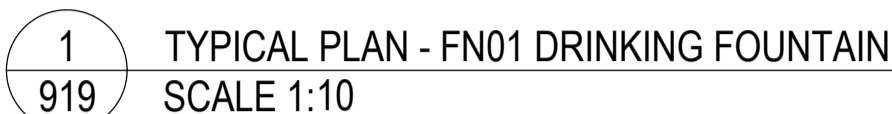
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PROJECT : 2522146



DRAWING NUMBER

DRAWING NUMBER	REVISION
GP_2522146_918	01





DRAWING NUMBER	REVISION
GP 2522146 919	01

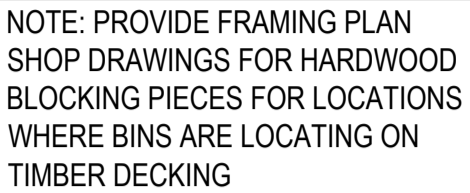
PROJECT

GUNYAMA PARK
STAGE 2

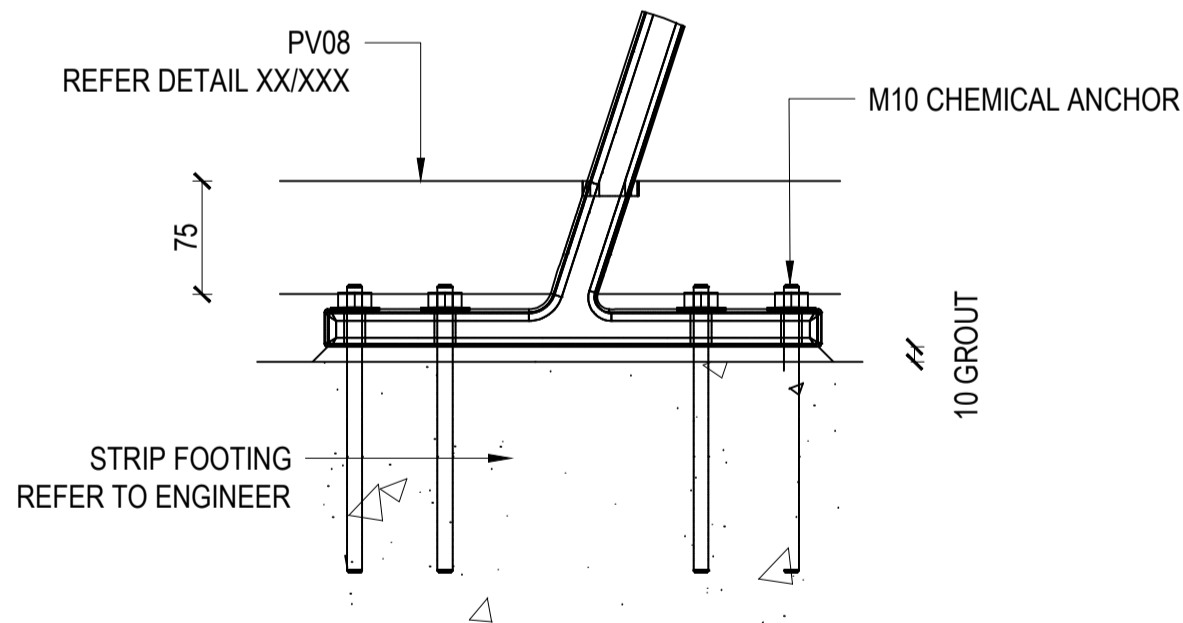
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CITY OF SYDNEY

NOTES



1
920 TYPICAL PLAN - FN03 RECYCLE & REFUSE BIN - IN PAVING
SCALE 1:10



2 TYPICAL SECTION - CUSTOM SEAT TYPE 1
920 SCALE 1:10

3 SECTION - BASE PLATE FIXING
920 SCALE 1:5

DRAFT

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

HARDSCAPE DETAILS

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



SCALE AS SHOWN @ A1

DRAWING NUMBER	REVISION
GP_2522146_919	01

PROJECT

GUNYAMA PARK
STAGE 2

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NOTES

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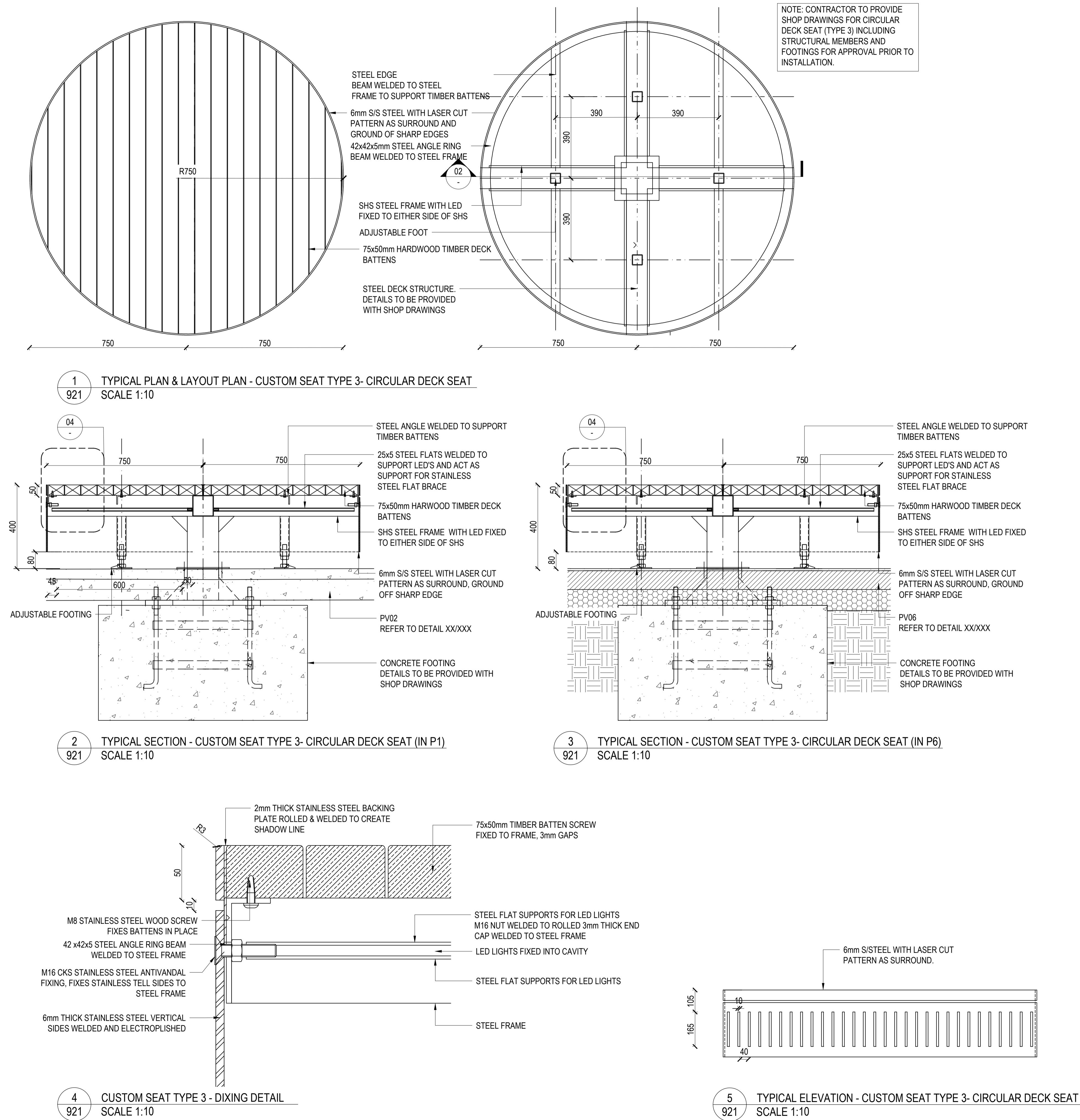
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HARDSCAPE DETAILS

DESIGN : BP
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PROJECT : 2522146



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DRAWING NUMBER	REVISION
GP_2522146_919	01



DRAWING NUMBER	REVISION
GP 2522146 922	01

PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

DRAFT

ISSUE	CODE	ISSUE DESCRIPTION	BY	CHK	DATE
01	PRE	50% DESIGN DEVELOPMENT	RH	LI	19.07.2023

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

HARDSCAPE DETAILS

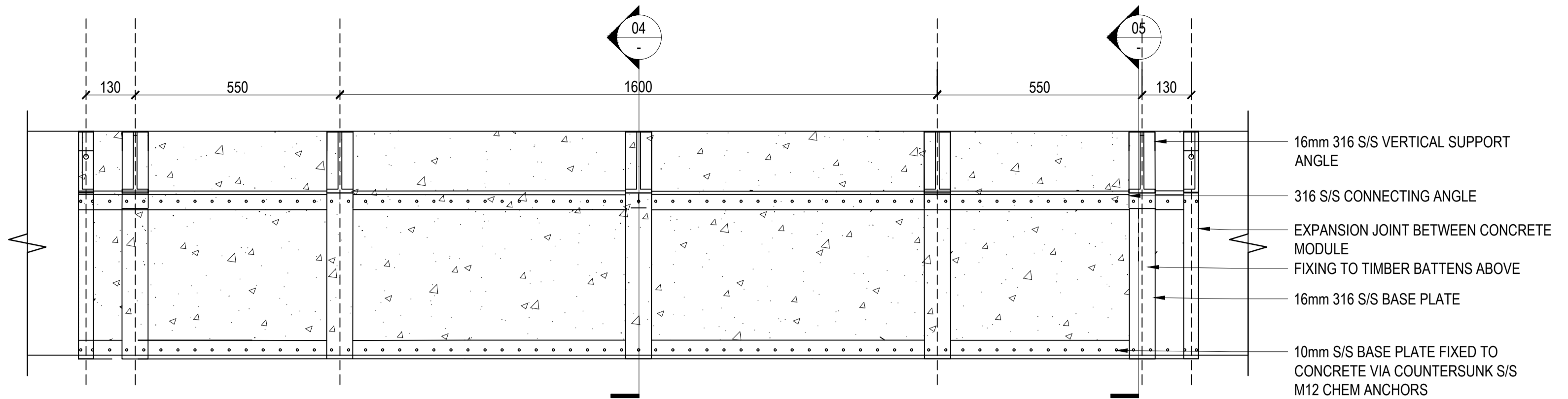
DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



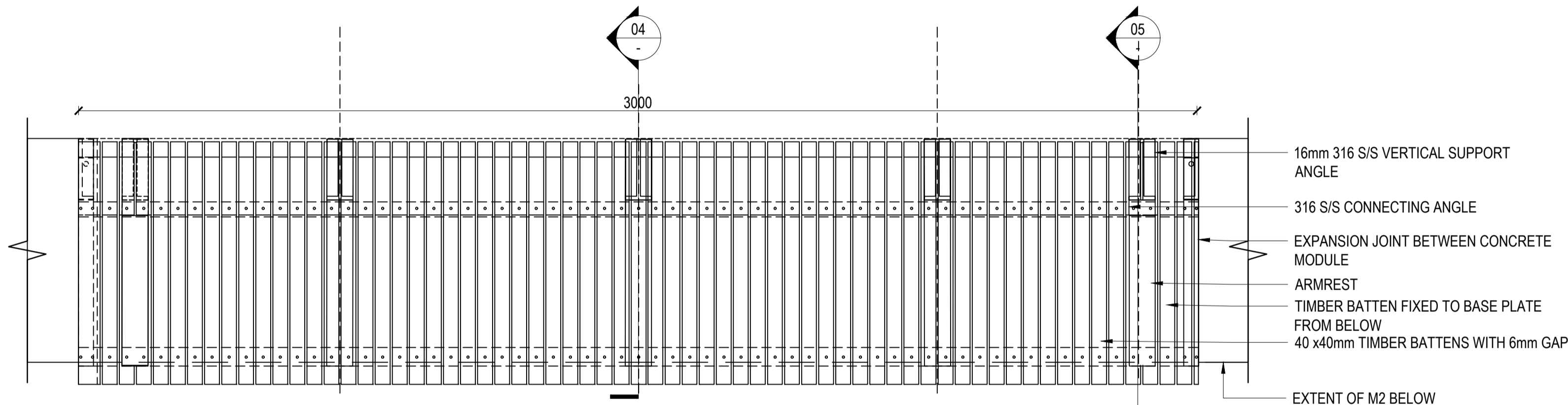
SCALE AS SHOWN @ A1

DRAWING NUMBER
GP_2522146_923

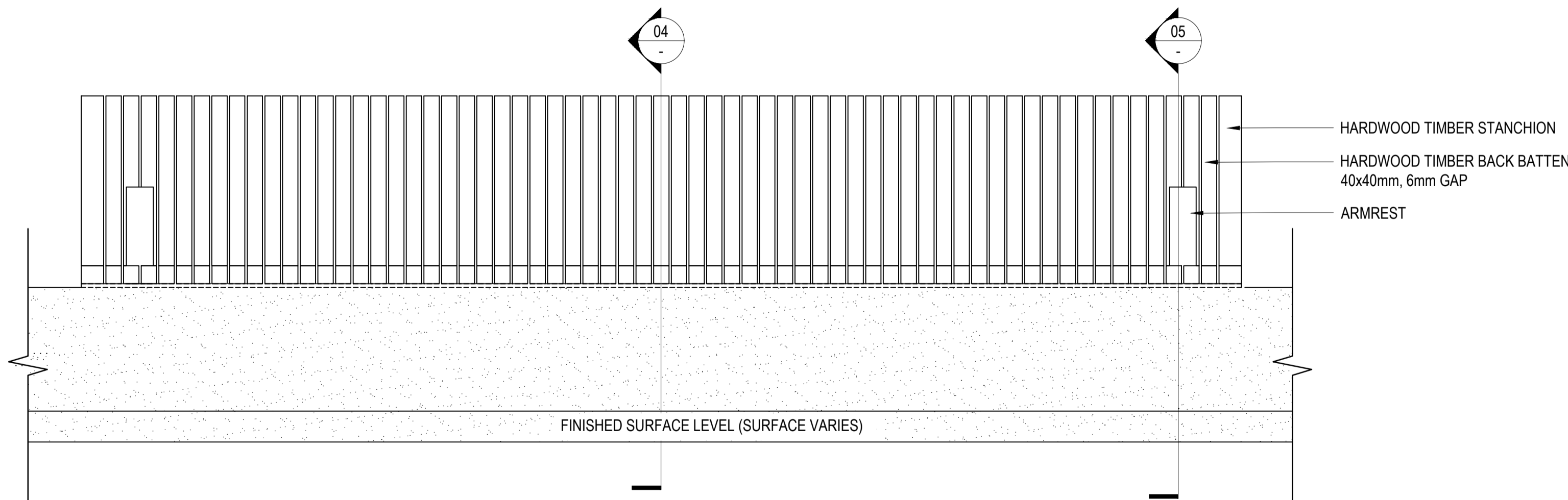
REVISION
01



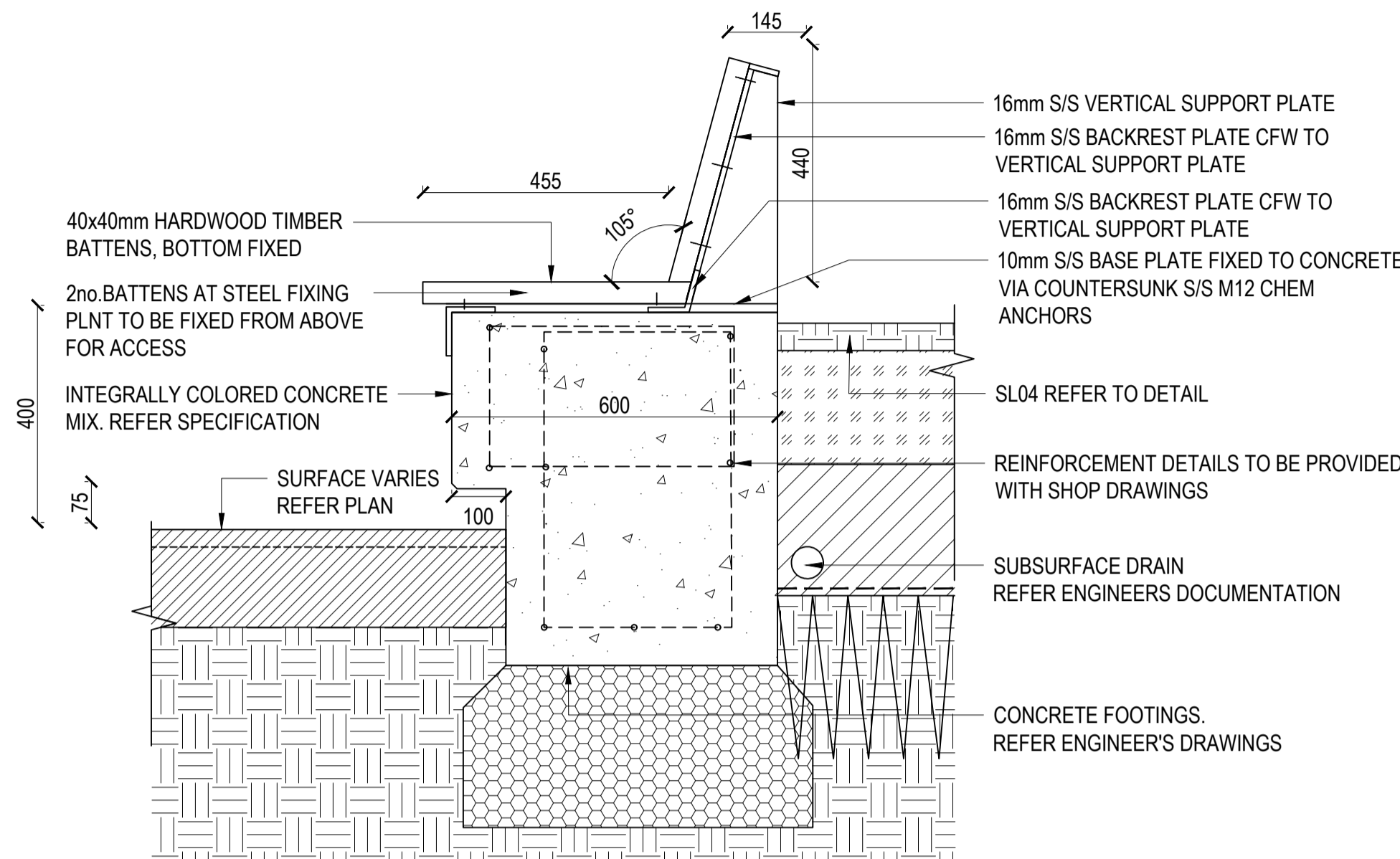
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923 PLAN - M2(b) WITH BACKREST
SCALE 1:10



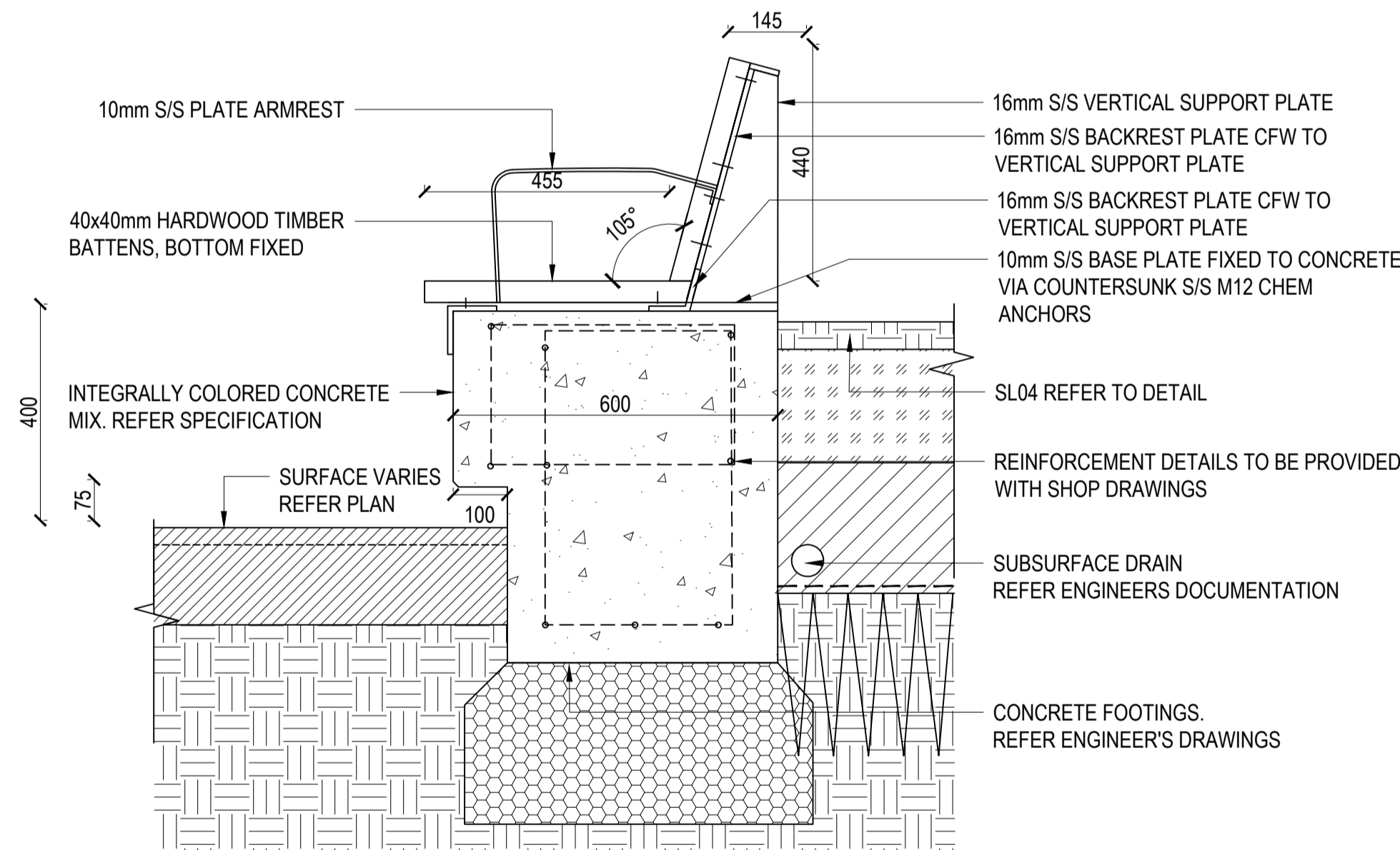
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923 PLAN - M2(b) WITH BACKREST - TIMBER ARRANGEMENT
SCALE 1:10



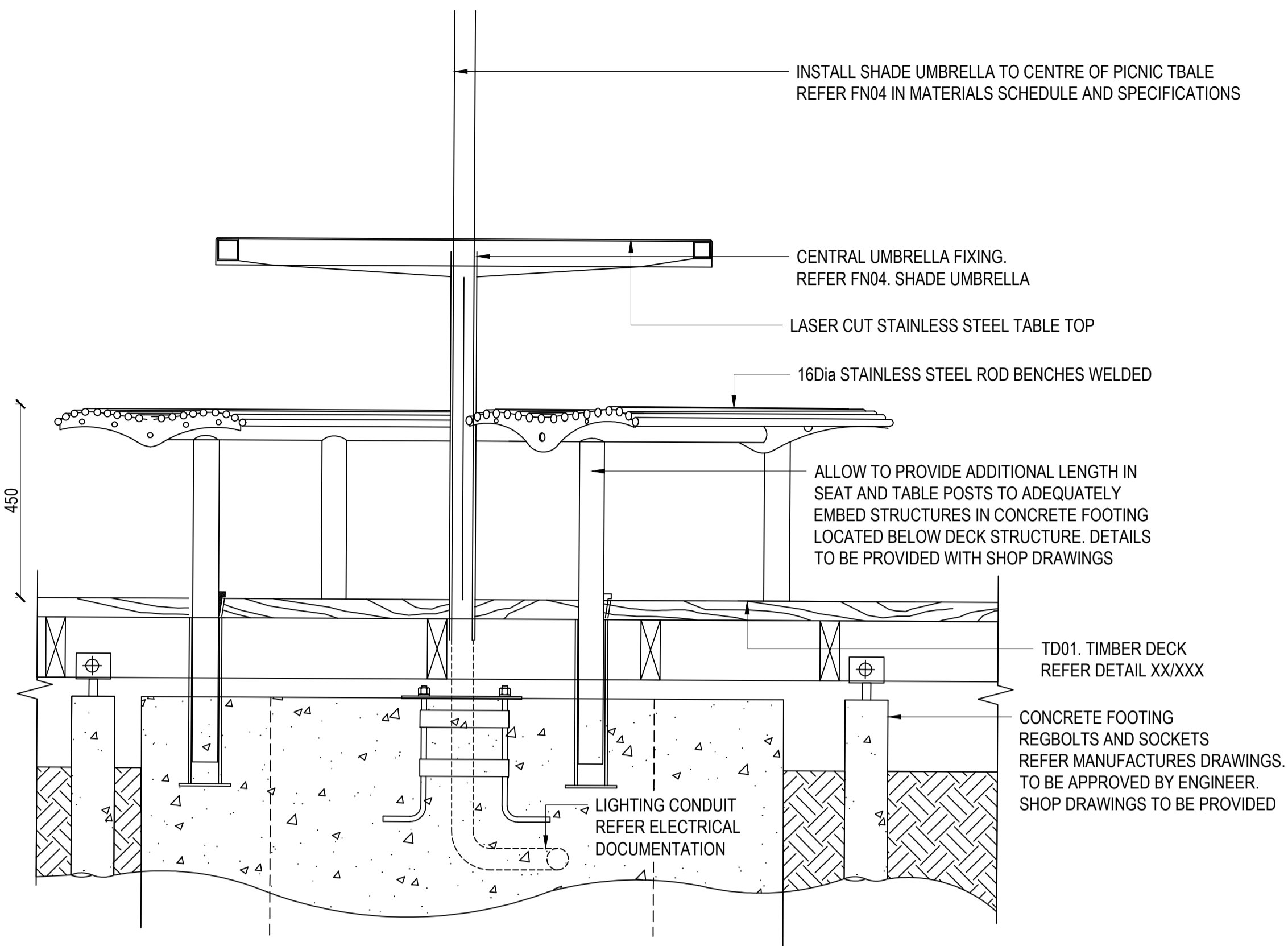
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923 ELEVATION - M2(b) WITH BACKREST
SCALE 1:10



4
923 TYPICAL DETAIL - CUSTOM SEAT TYPE 05 - MODULE WITH BACKREST (M2b)
SCALE 1:10



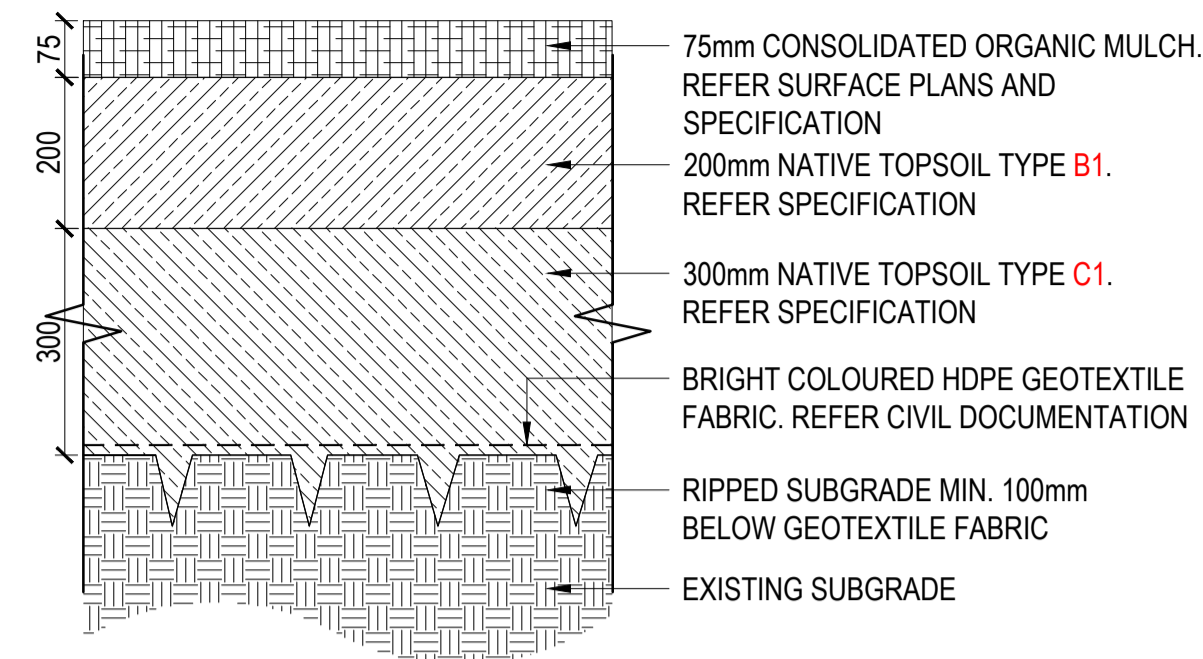
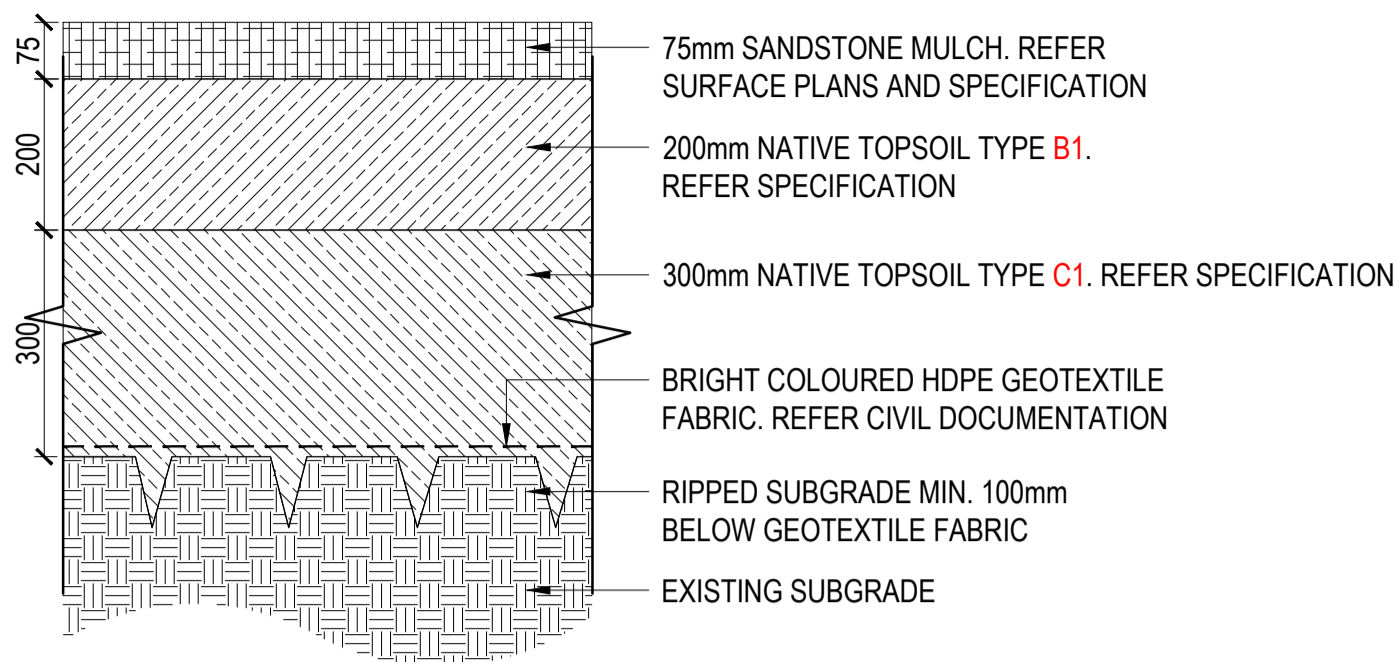
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923 TYPICAL DETAIL - CUSTOM SEAT TYPE 05 - MODULE WITH BACKREST (M2b)(ARMREST)
SCALE 1:10



2 CUSTOM SEAT TYPE 6 - PICNIC TABLE IN DECK
924 SCALE 1:10

NOTES

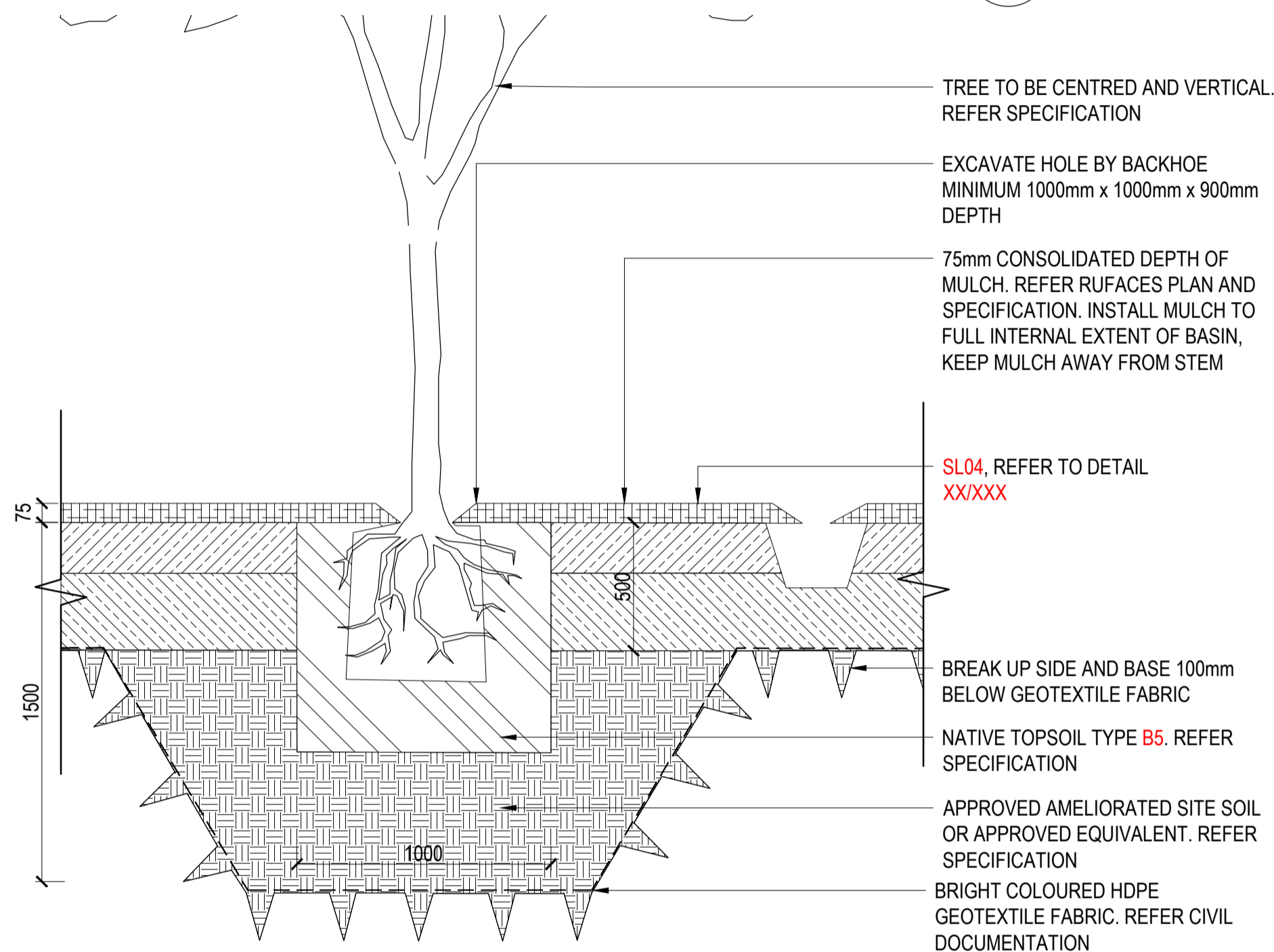
DRAWING NUMBER	REVISION
GP 2522146 924	01



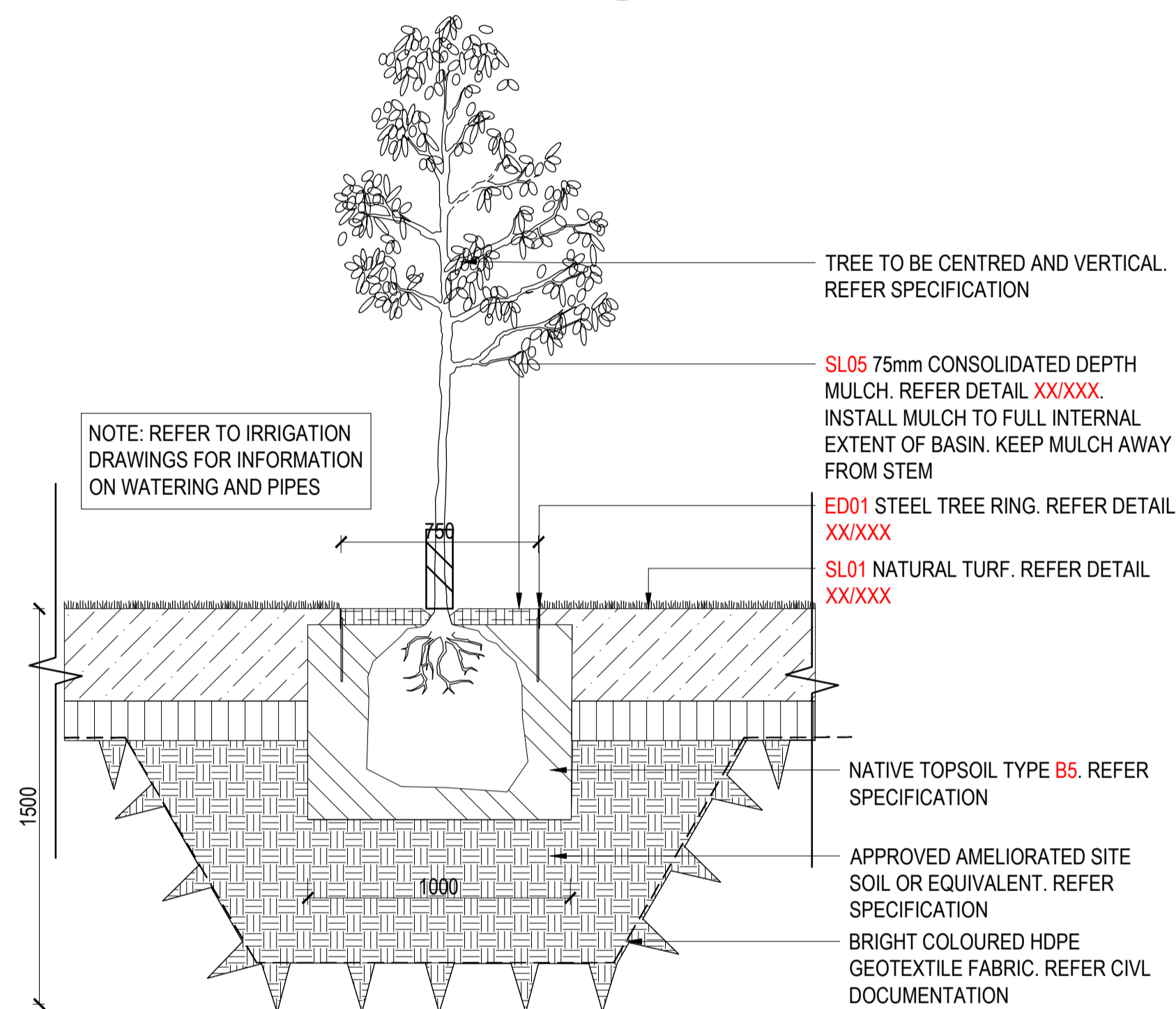
1 SL01 - NATURAL INSTANT TURF
950 SCALE 1:10

2 SL04 - GARDEN BED SANDSTONE MULCH
950 SCALE 1:10

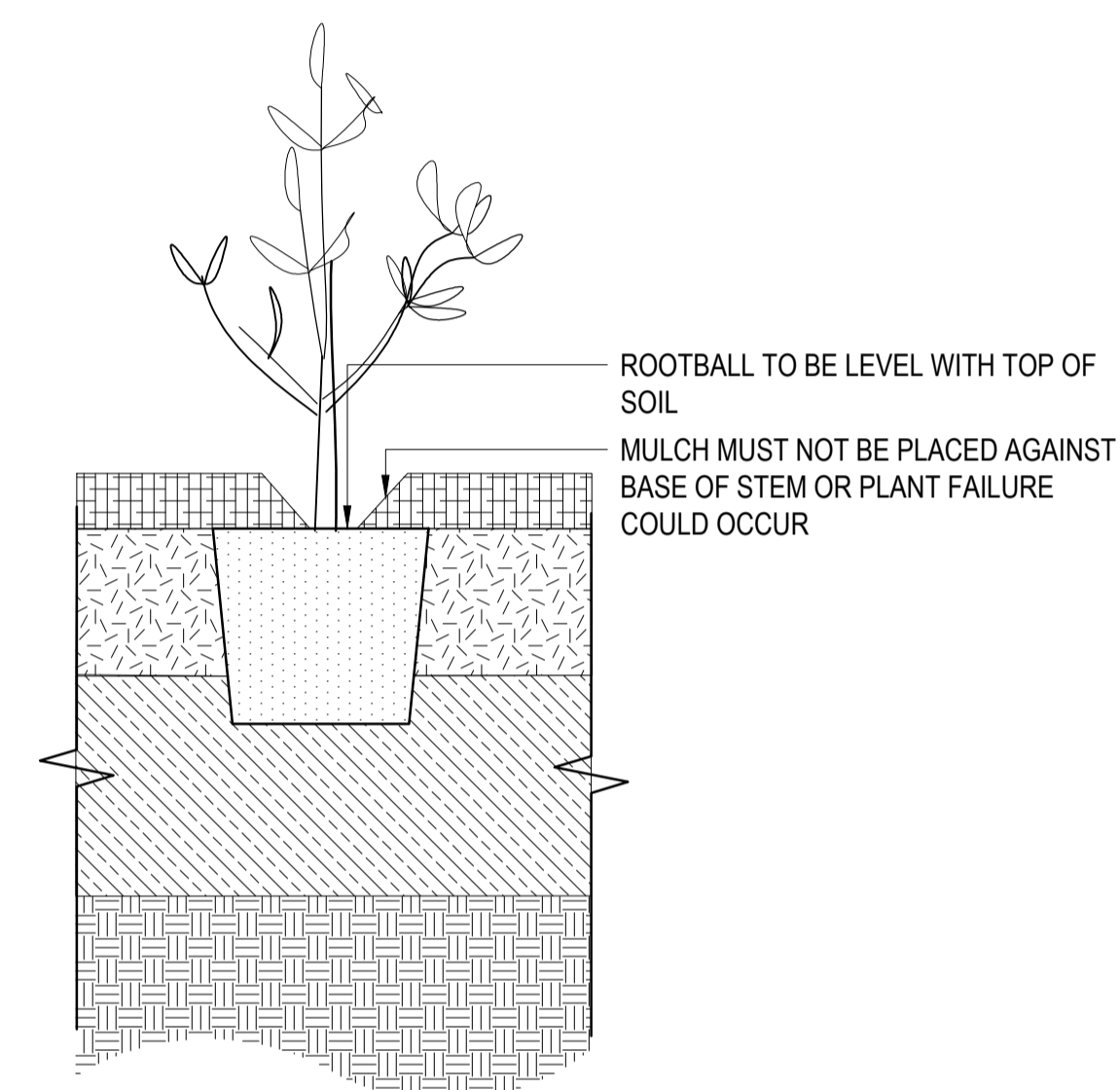
3 SL05 - GARDEN BED ORGANIC MULCH
950 SCALE 1:10



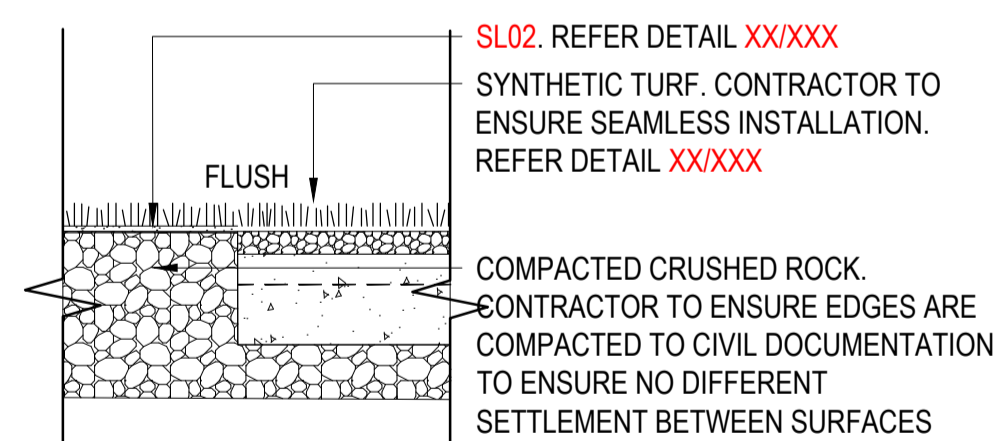
4 TREE PLANTING IN GARDEN BED
950 SCALE 1:10



5 TREE PLANTING IN GARDEN BED
950 SCALE 1:10



6 GARDEN BED PLANTING
950 SCALE 1:10



10 SL02 & SL03 INTERFACE
950 SCALE 1:10

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PROJECT

GUNYAMA PARK
STAGE 2

CLIENT

CITY OF SYDNEY

NOTES

DRAFT

PRE - Preliminary | CA - Council Approval | T - Tender | CON - Construction

DRAWING TITLE

SOFTSCAPE DETAILS

DESIGN : BP
DOCUMENT : RH
PROJECT : 2522146



SCALE AS SHOWN @ A1

DRAWING NUMBER	REVISION
GP_2522146_950	01