

										Client:				Engineer:  Structural Civil Traffic Façade		Project: WAHROONGA ESTATE STAGE 3 RESIDENTIAL DEVELOPMENT		Drawing Title: GENERAL COVER SHEET		Scale at A1 NTS		Drawn LW		Designed LW		Approved TM	
C		ISSUE FOR DA			GC			JHH 07.05.2025																			
B		ISSUE FOR DA			GC			LW 31.10.2024																			
A		PRELIMINARY ISSUE			GC			LW 13.06.2024																			
Rev		Description			Enq		Draft		Date		Rev		Description			Enq		Draft		Date							
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GENERAL

1. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.
2. STRIP ALL TOPSOIL FROM THE CONSTRUCTION AREA. ALL STRIPPED TOPSOIL SHALL BE DISPOSED OF OFF-SITE UNLESS DIRECTED OTHERWISE.
3. MAKE SMOOTH CONNECTION WITH ALL EXISTING WORKS.
4. COMPACT SUBGRADE UNDER BUILDINGS AND PAVEMENTS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.1.1. COMPACTION UNDER BUILDINGS TO EXTEND 2M MINIMUM BEYOND BUILDING FOOTPRINT.
5. ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY, THE CONTRACTOR IS TO ENSURE THAT THE DRAWINGS USED FOR CONSTRUCTION HAVE BEEN APPROVED BY ALL RELEVANT AUTHORITIES PRIOR TO COMMENCEMENT SITE.
6. ALL WORK ON PUBLIC PROPERTY, PROPERTY WHICH IS TO BECOME PUBLIC PROPERTY, OR ANY WORK WHICH IS TO COME UNDER THE CONTROL OF THE STATUTORY AUTHORITY IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY. THE CONTRACTOR SHALL OBTAIN THESE REQUIREMENTS FROM THE AUTHORITY. WHERE THE REQUIREMENTS OF THE AUTHORITY ARE DIFFERENT TO THE DRAWINGS AND SPECIFICATIONS, THE REQUIREMENTS OF THE AUTHORITY SHALL BE APPLICABLE.
7. FOR ALL TEMPORARY BATTERS REFER TO GEOTECHNICAL RECOMMENDATIONS.

BOUNDARIES AND EASEMENTS

1. THE PROPERTY BOUNDARY AND EASEMENT LOCATIONS SHOWN ON TAYLOR THOMSON WHITTING DRAWING'S HAVE BEEN BASED ON INFORMATION RECEIVED FROM : SURVEYOR
2. TAYLOR THOMSON WHITTING MAKES NO GUARANTEES THAT THE BOUNDARY OR EASEMENT INFORMATION SHOWN IS CORRECT. TAYLOR THOMSON WHITTING WILL ACCEPT NO LIABILITIES FOR BOUNDARY INACCURACIES. THE CONTRACTOR/BUILDER IS ADVISED TO CHECK/CONFIRM ALL BOUNDARIES IN RELATION TO ALL PROPOSED WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. BOUNDARY INACCURACIES FOUND ARE TO BE REPORTED TO THE SUPERINTENDENT PRIOR TO CONSTRUCTION STARTING.

SURVEY

- ORIGIN OF LEVELS:

DATUM OF LEVELS:

COORDINATE SYSTEM:

SURVEY PREPARED BY:

SETOUT POINTS:

PM44905 RL 166.262

AHD

MG494

RPS

POINTS
1. TAYLOR THOMSON WHITTING DOES NOT GUARANTEE THAT THE SURVEY INFORMATION SHOWN ON THESE DRAWINGS IS ACCURATE AND WILL ACCEPT NO LIABILITY FOR ANY INACCURACIES IN THE SURVEY INFORMATION PROVIDED TO US FROM ANY CAUSE WHATSOEVER.

UNDERGROUND SERVICES - WARNING

1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON TAYLOR THOMSON WHITTINGS DRAWINGS HAVE BEEN PLOTTED FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES. THIS INFORMATION HAS BEEN PREPARED SOLELY FOR THE AUTHORITIES OWN USE AND MAY NOT NECESSARILY BE UPDATED OR ACCURATE.
2. THE POSITION OF SERVICES AS RECORDED BY THE AUTHORITY AT THE TIME OF INSTALLATION MAY NOT REFLECT CHANGES IN THE PHYSICAL ENVIRONMENT SUBSEQUENT TO INSTALLATION.
3. THE CONTRACTOR MUST CONFIRM THE EXACT LOCATION AND EXTENT OF SERVICES PRIOR TO CONSTRUCTION AND NOTIFY ANY CONFLICT WITH THE DRAWINGS IMMEDIATELY TO THE ENGINEER/SUPERINTENDENT.
4. THE CONTRACTOR IS TO GET APPROVAL FROM THE RELEVANT STATE SURVEY DEPARTMENT, TO REMOVE/ADJUST ANY SURVEY MARK. THIS INCLUDES BUT IS NOT LIMITED TO: STATE SURVEY MARKS (SSM), PERMANENT MARKS (PM), CADASTRAL REFERENCE MARKS OR ANY OTHER SURVEY MARK WHICH IS TO BE REMOVED OR ADJUSTED IN ANY WAY.
5. TAYLOR THOMSON WHITTING PLANS DO NOT INDICATE THE PRESENCE OF ANY SURVEY MARK. THE CONTRACTOR IS TO UNDERTAKE THEIR OWN SEARCH.

DIAL BEFORE YOU DIG (DBYD)

1. PUBLIC SERVICE UTILITY INFORMATION SHOWN ON PLAN HAS BEEN COMPLIED FROM INFORMATION RECEIVED FROM DIAL BEFORE YOU DIG INQUIRY, REFERENCE NUMBER 35622690. OBTAINED ON 06.12.2023 UNLESS SPECIFICALLY SHOWN OTHERWISE, THIS LOCATION AND DEPTH OF SERVICES SHOWN ON THIS PLAN HAVE NOT BEEN VERIFIED.
2. THE LOCATION OF SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES AND SHOULD BE CONFIRMED BY SITE INSPECTION."

SITE WORKS

1. ALL BASECOURSE MATERIAL TO COMPLY WITH RMS SPECIFICATION NO 3051 AND COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
2. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
3. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED SELECT MATERIAL AND COMPACTED TO A MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1

PUBLIC DOMAIN WORKS

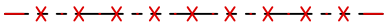
1. PUBLIC DOMAIN WORKS ARE NOT TO COMMENCE UNTIL THESE DRAWINGS ARE STAMPED AS APPROVED.

SAFETY IN DESIGN

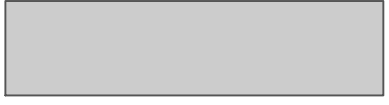
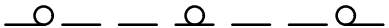
CONTRACTOR TO REFER TO APPENDIX B OF THE CIVIL SPECIFICATION FOR THE CIVIL RISK AND SOLUTIONS REGISTER.

1. EXISTING SERVICES
CONTRACTOR TO BE AWARE EXISTING SERVICES ARE LOCATED WITHIN THE SITE. LOCATION OF ALL SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORKS. CONTRACTOR TO CONFIRM WITH RELEVANT AUTHORITY REGARDING MEASURES TO BE TAKEN TO ENSURE SERVICES ARE PROTECTED OR PROCEDURES ARE IN PLACE TO DEMOLISH AND/OR RELOCATE.
2. EXISTING STRUCTURES
CONTRACTOR TO BE AWARE EXISTING STRUCTURES MAY EXIST WITHIN THE SITE. TO PREVENT DAMAGE TO EXISTING STRUCTURE(S) AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING STRUCTURE(S).
3. EXISTING TREES
CONTRACTOR TO BE AWARE EXISTING TREES EXIST WITHIN THE SITE WHICH NEED TO BE PROTECTED. TO PREVENT DAMAGE TO TREES AND/OR PERSONNEL, SITE WORKS TO BE CARRIED OUT AS FAR AS PRACTICABLY POSSIBLE FROM EXISTING TREES. ADVICE NEEDS TO BE SOUGHT FROM ARBORIST AND/OR LANDSCAPE ARCHITECT ON MEASURES REQUIRED TO PROTECT TREES.
4. GROUNDWATER
CONTRACTOR TO BE AWARE GROUND WATER LEVELS ARE CLOSE TO EXISTING SURFACE LEVEL. TEMPORARY DE-WATERING MAY BE REQUIRED DURING CONSTRUCTION WORKS.
5. EXCAVATIONS
DEEP EXCAVATIONS DUE TO STORMWATER DRAINAGE WORKS IS REQUIRED. CONTRACTOR TO ENSURE SAFE WORKING PROCEDURES ARE IN PLACE FOR WORKS. ALL EXCAVATIONS TO BE FENCED OFF AND BATTERS ADEQUATELY SUPPORTED TO APPROVAL OF GEOTECHNICAL ENGINEER.
6. GROUND CONDITIONS
CONTRACTOR TO BE AWARE OF THE SITE GEOTECHNICAL CONDITIONS. REFER TO GEOTECHNICAL REPORT BY
 - DOUGLAS PARTNERS.
 - REPORT ON GEOTECHNICAL INVESTIGATION, DATED 16.08.2024.
7. HAZARDOUS MATERIALS
EXISTING ASBESTOS PRODUCTS & CONTAMINATED MATERIAL MAY BE PRESENT ON SITE. CONTRACTOR TO ENSURE ALL HAZARDOUS MATERIALS ARE IDENTIFIED PRIOR TO COMMENCING WORKS. SAFE WORKING PRACTICES AS PER RELEVANT AUTHORITY TO BE ADOPTED AND APPROPRIATE PPE TO BE USED WHEN HANDLING ALL HAZARDOUS MATERIALS. REFER TO GEOTECHNICAL/ENVIRONMENTAL REPORT BY
 - DOUGLAS PARTNERS.
 - REPORT ON PRELIMINARY SITE (CONTAMINATION) INVESTIGATION, DATED 10.08.2024.
8. CONFINED SPACES
CONTRACTOR TO BE AWARE OF POTENTIAL HAZARDS DUE TO WORKING IN CONFINED SPACES SUCH AS STORMWATER PITS, TRENCHES AND/OR TANKS. CONTRACTOR TO PROVIDE SAFE WORKING METHODS AND USE APPROPRIATE PPE WHEN ENTERING CONFINED SPACES.
9. MANUAL HANDLING
CONTRACTOR TO BE AWARE MANUAL HANDLING MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ENSURE MANUAL HANDLING PROCEDURES AND ASSESSMENTS ARE IN PLACE PRIOR TO COMMENCING WORKS.
10. WATER POLLUTION
CONTRACTOR TO ENSURE APPROPRIATE MEASURES ARE TAKEN TO PREVENT POLLUTANTS FROM CONSTRUCTION WORKS CONTAMINATING THE SURROUNDING ENVIRONMENT.
11. SITE ACCESS/EGRESS
CONTRACTOR TO BE AWARE SITE WORKS OCCUR IN CLOSE PROXIMITY TO FOOTPATHS AND ROADWAYS. CONTRACTOR TO ERECT APPROPRIATE BARRIERS AND SIGNAGE TO PROTECT SITE PERSONNEL AND PUBLIC.
12. VEHICLE MOVEMENT
CONTRACTOR TO SUPPLY AND COMPLY WITH TRAFFIC MANAGEMENT PLAN AND PROVIDE ADEQUATE SITE TRAFFIC CONTROL INCLUDING A CERTIFIED TRAFFIC MARSHALL TO SUPERVISE VEHICLE MOVEMENTS WHERE NECESSARY.

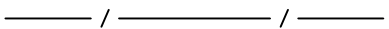
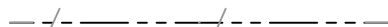
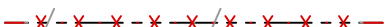
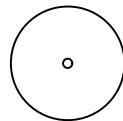
BOUNDARIES

EXISTING	REMOVED	PROPOSED	
			BLOCK BOUNDARY
			BLOCK BOUNDARY EXTINGUISHED

BUILDINGS

EXISTING	REMOVED	PROPOSED	
			BUILDING ENVELOPE
			FUTURE BUILDING ENVELOPE
			BASEMENT OUTLINE
			BUILDING AWNING
			BUILDING DOUBLE DOOR ENTRY
			BUILDING SINGLE DOOR ENTRY
			BUILDING SLIDING DOOR ENTRY

LANDSCAPE

EXISTING	REMOVED	PROPOSED	
			FENCE LINE
			FENCE LINE ON BOUNDARY
			PROPERTY ACCESS GATE
			BUILDING SLIDING DOOR ENTRY TREE REPRESENTATION MAY VARY BASED ON LANDSCAPE CONSULTANT OR SURVEY INFORMATION
			PAVEMENT
			SOFT LANDSCAPE
			TREE PROTECTION ZONE
			STRUCTURAL ROOT ZONE

NOT FOR CONSTRUCTION

			Client:	Engineer:	Project:	Drawing Title:	Scale at A1	Drawn	Designed	Approved
					WAHROONGA ESTATE	GENERAL	NTS	LW	LW	TM
					STAGE 3	NOTES AND	Project No	Originator	Zone	Type
					RESIDENTIAL	LEGEND SHEET 1		Role	Sheet No.	Rev
					DEVELOPMENT		231292-TTW-00-DR-CI-00003-B			
							31.10.2024	9:54 AM		
B	ISSUE FOR DA	GC LW 31.10.2024								
A	PRELIMINARY ISSUE	GC LW 13.06.2024								
Rev	Description	Eng Draft Date	Rev	Description	Eng Draft Date	Rev	Description	Eng Draft Date	Rev	Description

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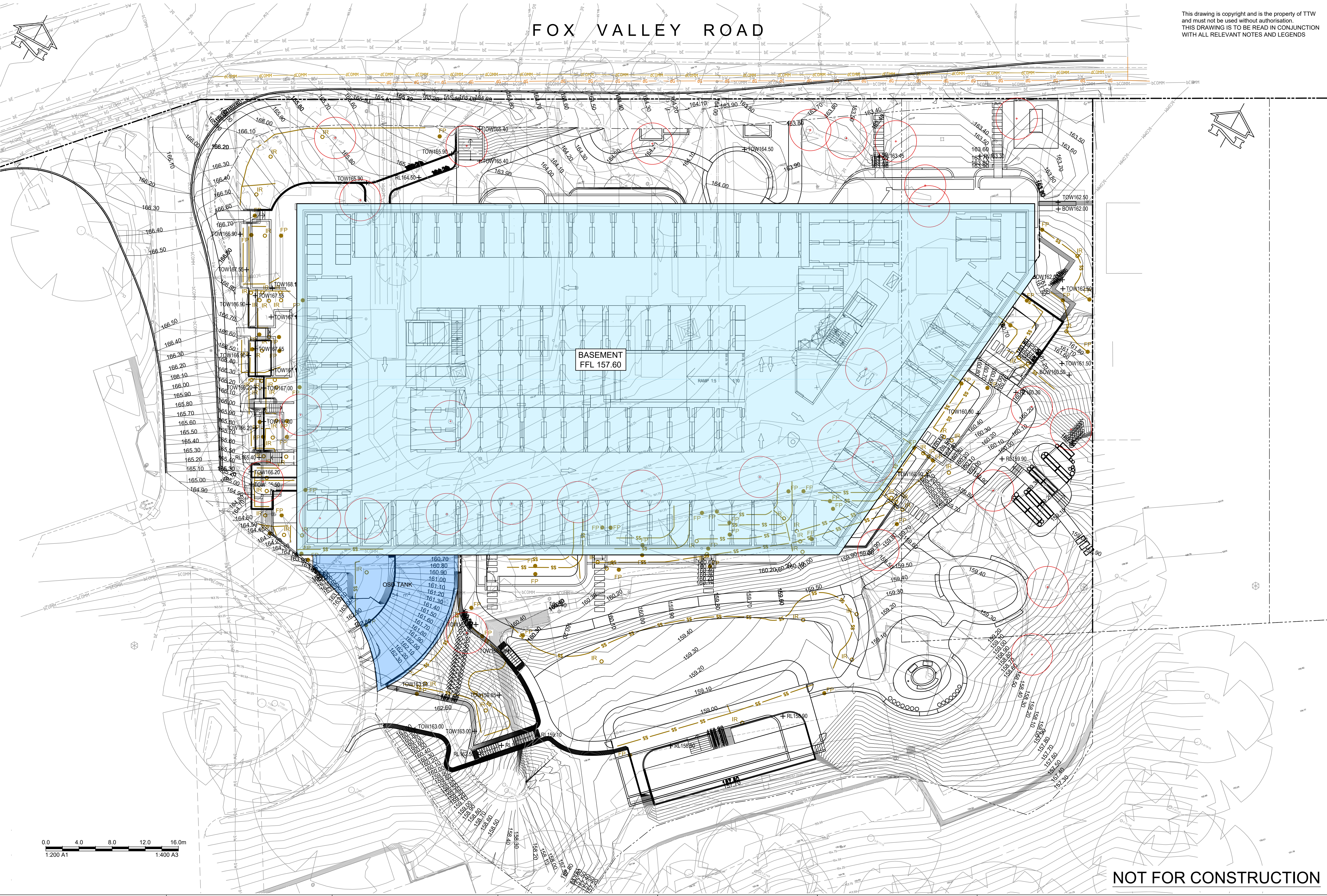
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								Client:								Engineer:				 Structural Civil Traffic Façade				Project:				WAHROONGA ESTATE STAGE 3 RESIDENTIAL DEVELOPMENT				Drawing Title:				GENERAL ARRANGEMENT PLAN				Scale at A1		Drawn		Designed		Approved									
C ISSUE FOR DA				ML LW 06.08.2025																																1:200				LW		LW		TM											
B ISSUE FOR DA				GC LW 31.10.2024																																																			
A PRELIMINARY ISSUE				GC LW 13.06.2024																																																			
Rev		Description		Eng		Draft		Date		Rev		Description		Eng		Draft		Date		Rev		Description		Eng		Draft		Date		Project No												Originator		Zone		Type		Role		Sheet No.		Rev			
																		612 6285 1766 Level 5, 224 Bunda St, Canberra City, ACT 2601												231292-TTW-00-DR-CI-00011-C												06.08.2025 2:00 PM													

FOX VALLEY ROAD

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Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date
C	ISSUE FOR DA	GC	JHH 07.05.2025								
B	ISSUE FOR DA	GC	LW 31.10.2024								
A	PRELIMINARY ISSUE	GC	LW 13.06.2024								



Engineer
TTW
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

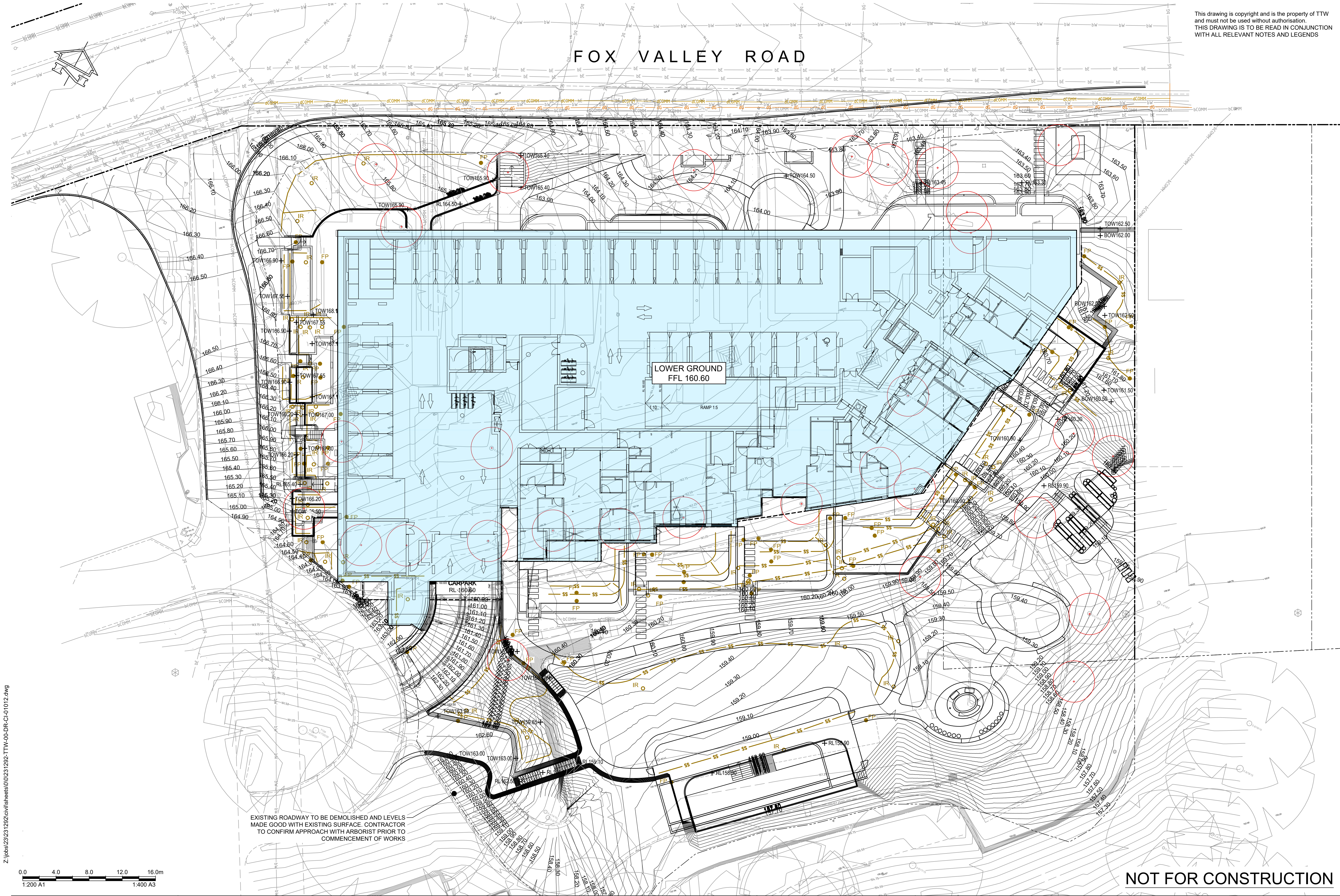
**Structural
Civil
Traffic
Façade**

Project:
**WAHROONGA ESTATE
STAGE 3
RESIDENTIAL
DEVELOPMENT**

Drawing Title:
**GEOMETRY
ALIGNMENT CONTROL
AND GRADING PLAN
BASEMENT**

Scale at A1	Drawn	Designed	Approved			
1:200	LW	LW	TM			
Project No	Originator	Zone	Type	Role	Sheet No.	Rev
231292-TTW-00-DR-CI-01011-C						
07.05.2025		3:24 PM				

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EXISTING ROADWAY TO BE DEMOLISHED AND LEVELS MADE GOOD WITH EXISTING SURFACE. CONTRACTOR TO CONFIRM APPROACH WITH ARBORIST PRIOR TO COMMENCEMENT OF WORKS

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0.0 4.0 8.0 12.0 16.0m
1:200 A1 1:400 A3

Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date
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B	ISSUE FOR DA	GC	LW 31.10.2024								
A	PRELIMINARY ISSUE	GC	LW 13.06.2024								

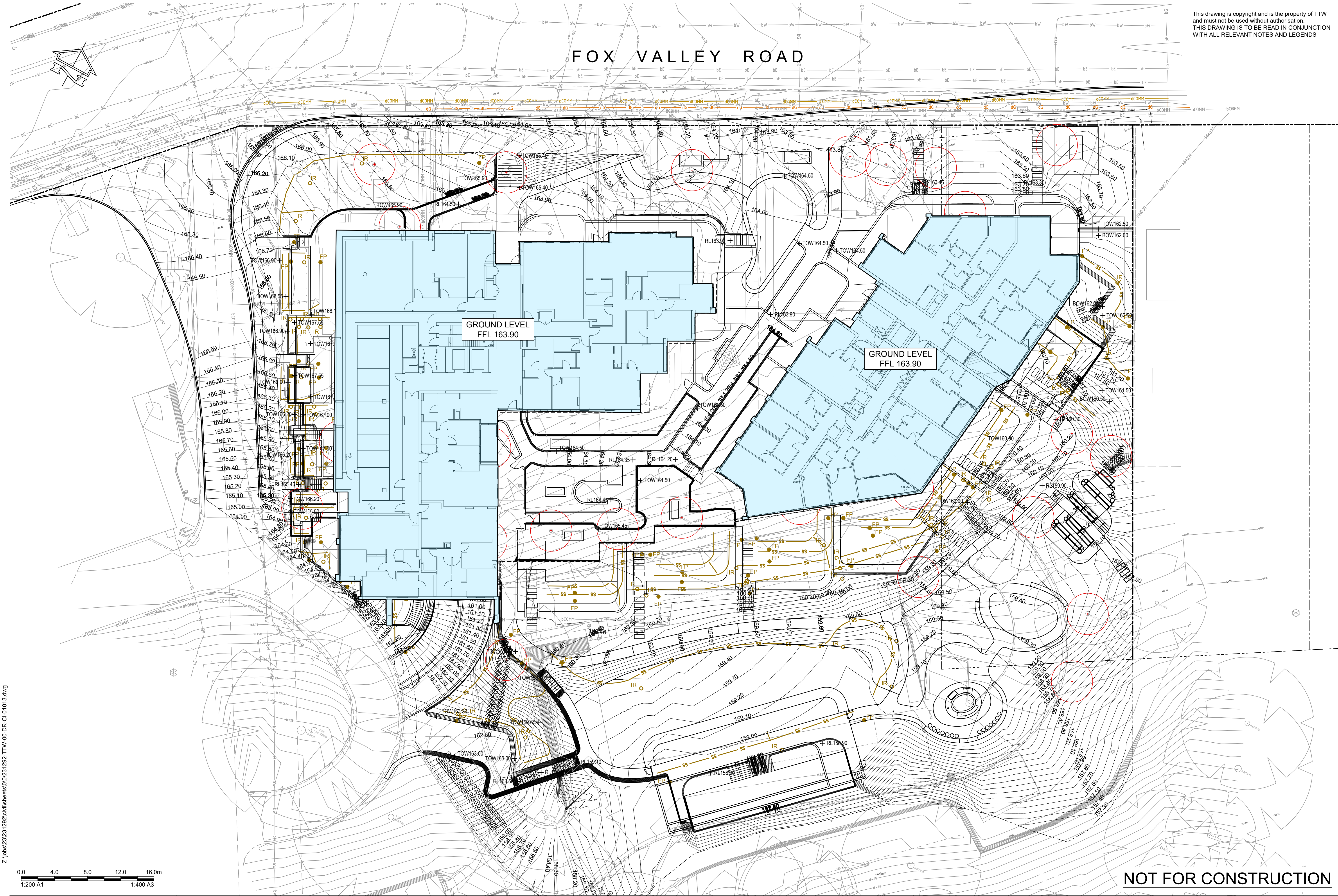


Client: WAHROONGA ESTATE
Project: STAGE 3
RESIDENTIAL
DEVELOPMENT

Drawing Title: GEOMETRY
ALIGNMENT CONTROL
AND GRADING PLAN
LOWER GROUND

Scale at A1: 1:200
Project No: 231292-TTW-00-DR-CI-01012-C
07.05.2025 5:43 PM
Drawn: LW
Designed: LW
Approved: TM
Originator: Zone: Role: Sheet No: Rev:

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C	ISSUE FOR DA	GC	JHH	07.05.2025										
B	ISSUE FOR DA	GC	LW	31.10.2024										
A	PRELIMINARY ISSUE	GC	LW	13.06.2024										

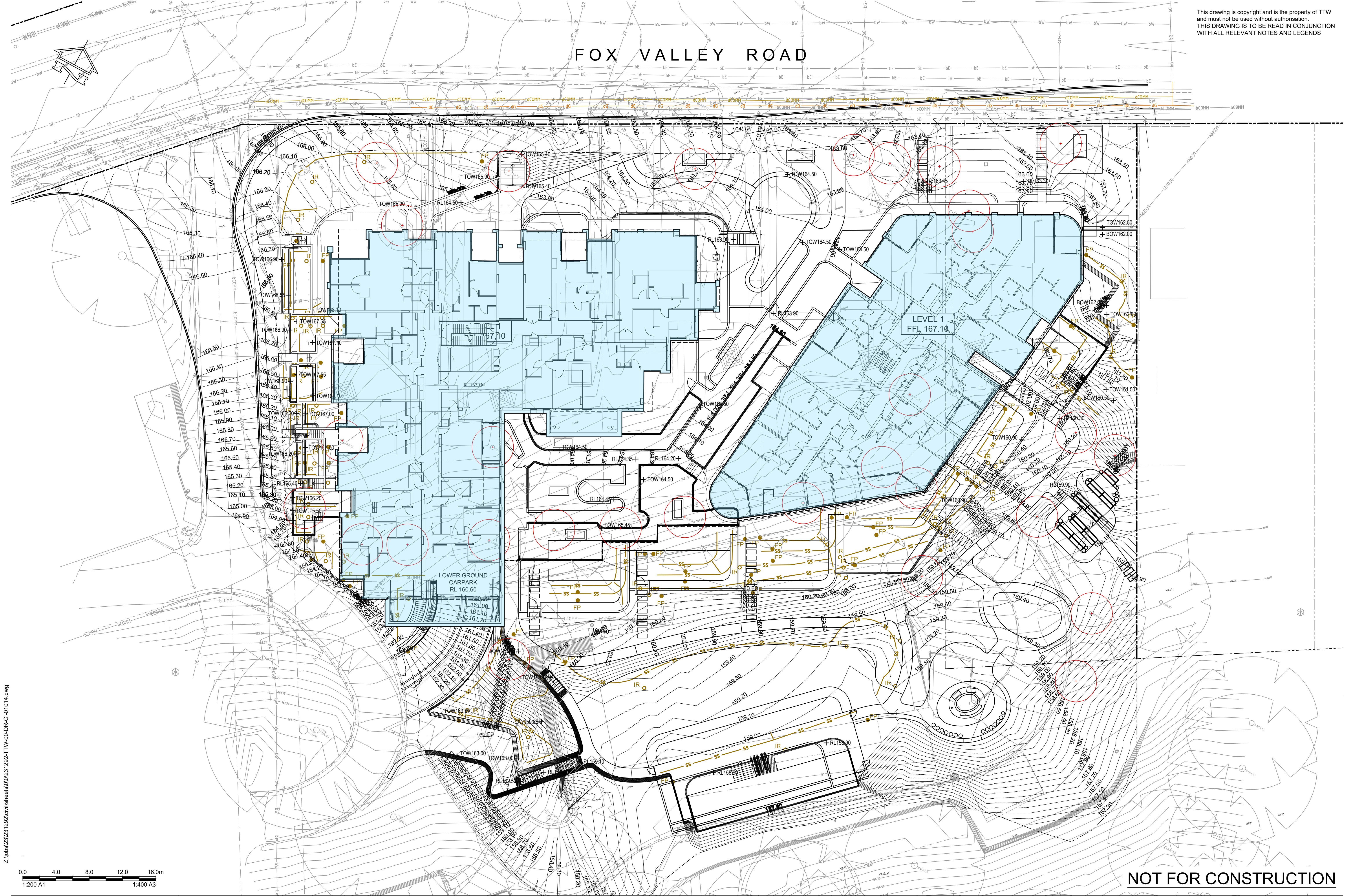


Project: WAHROONGA ESTATE
STAGE 3
RESIDENTIAL
DEVELOPMENT

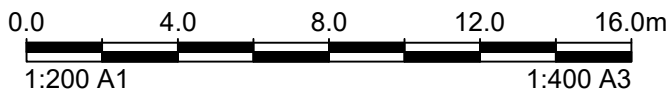
Drawing Title:
GEOMETRY
ALIGNMENT CONTROL
AND GRADING PLAN
GROUND

Scale at A1	Drawn	Designed	Approved			
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Project No	Originator	Zone	Type	Role	Sheet No.	Rev
231292-TTW-00-DR-CI-01013-C						
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C	ISSUE FOR DA	GC	JHH	07.05.2025			
B	ISSUE FOR DA	GC	LW	31.10.2024			
A	PRELIMINARY ISSUE	GC	LW	13.06.2024			
Rev	Description	Eng	Draft	Date	Rev	Description	Eng
			Draft	Date			Draft



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612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

**Structural
Civil
Traffic
Façade**

Project:
**WAHROONGA ESTATE
STAGE 3
RESIDENTIAL
DEVELOPMENT**

Drawing Title:
**GEOMETRY
ALIGNMENT CONTROL
AND GRADING PLAN
LEVEL 01**

Scale at A1	Drawn	Designed	Approved
1:200	LW	LW	TM
Project No	Originator	Zone	Role
231292-TTW-00-DR-CI-01014-C			
07.05.2025	5:43 PM		

BULK EARTHWORKS (02000 SERIES DRAWINGS)

1.

ALL BULK EARTHWORKS SETOUT FROM GRID LINES U.N.O.
2.

ALL BATTERS AT A SLOPE OF 1:2 U.N.O.
3.

EXCAVATED MATERIAL MAY BE USED AS STRUCTURAL FILL PROVIDED: -

-

IT COMPLIES WITH THE SPECIFICATION REQUIREMENTS FOR FILL MATERIAL.

-

THE PLACEMENT MOISTURE CONTENT COMPLIES WITH THE GEOTECHNICAL CONSULTANTS REQUIREMENTS, AND ALLOWS FILLING TO BE PLACED AND PROOF ROLLED IN ACCORDANCE WITH THE SPECIFICATION. WHERE NECESSARY THE CONTRACTOR MUST MOISTURE CONDITION THE EXCAVATED MATERIAL TO MEET THESE REQUIREMENTS.
4.

ALL SUBGRADE MATERIAL TO BE PLACED AND COMPACTED AT OPTIMUM MOISTURE CONTENT (OMC) IN ACCORDANCE WITH AS 1289.5.1.1 TO THE FOLLOWING STANDARD DRY DENSITIES: -

LOCATION	COMPACTION	TOLERANCE
BENEATH PAVEMENTS AND BUILDINGS	98%	± 2%
BENEATH LANDSCAPED AREAS	95%	± 2%

5.

BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH A 10 TONNE MINIMUM ROLLER TO TEST SUBGRADE AND THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 3mm MOVEMENT UNDER ROLLER). SOFT SPOTS TO BE REPLACED WITH GRANULAR FILL U.N.O.
6.

CONTRACTOR SHALL PLACE SAFETY BARRIERS AROUND EXCAVATIONS IN ACCORDANCE WITH RELEVANT SAFETY REGULATIONS.
7.

FOR INTERPRETATION OF BULK EARTHWORKS FOOT PRINT LINE SHOWN ON THE BULK EARTHWORKS DRAWINGS REFER TO THE BULK EARTHWORKS CONSTRUCTION LEGEND.
8.

BULK EARTHWORK DRAWINGS ARE NOT TO BE USED FOR DETAILED EXCAVATION.
9.

REFER TO GEOTECHNICAL REPORT PREPARED BY: -

-

DOUGLAS PARTNERS.

-

REPORT ON GEOTECHNICAL INVESTIGATION, DATED 16.08.2024.

depth				
Lower_value	Upper_value	Colour		
-999	to	-2	m	
-2	to	-1.75	m	
-1.75	to	-1.5	m	
-1.5	to	-1.25	m	
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-1	to	-.75	m	
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0.000	to	0.25	m	
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.75	to	1	m	
1	to	1.25	m	
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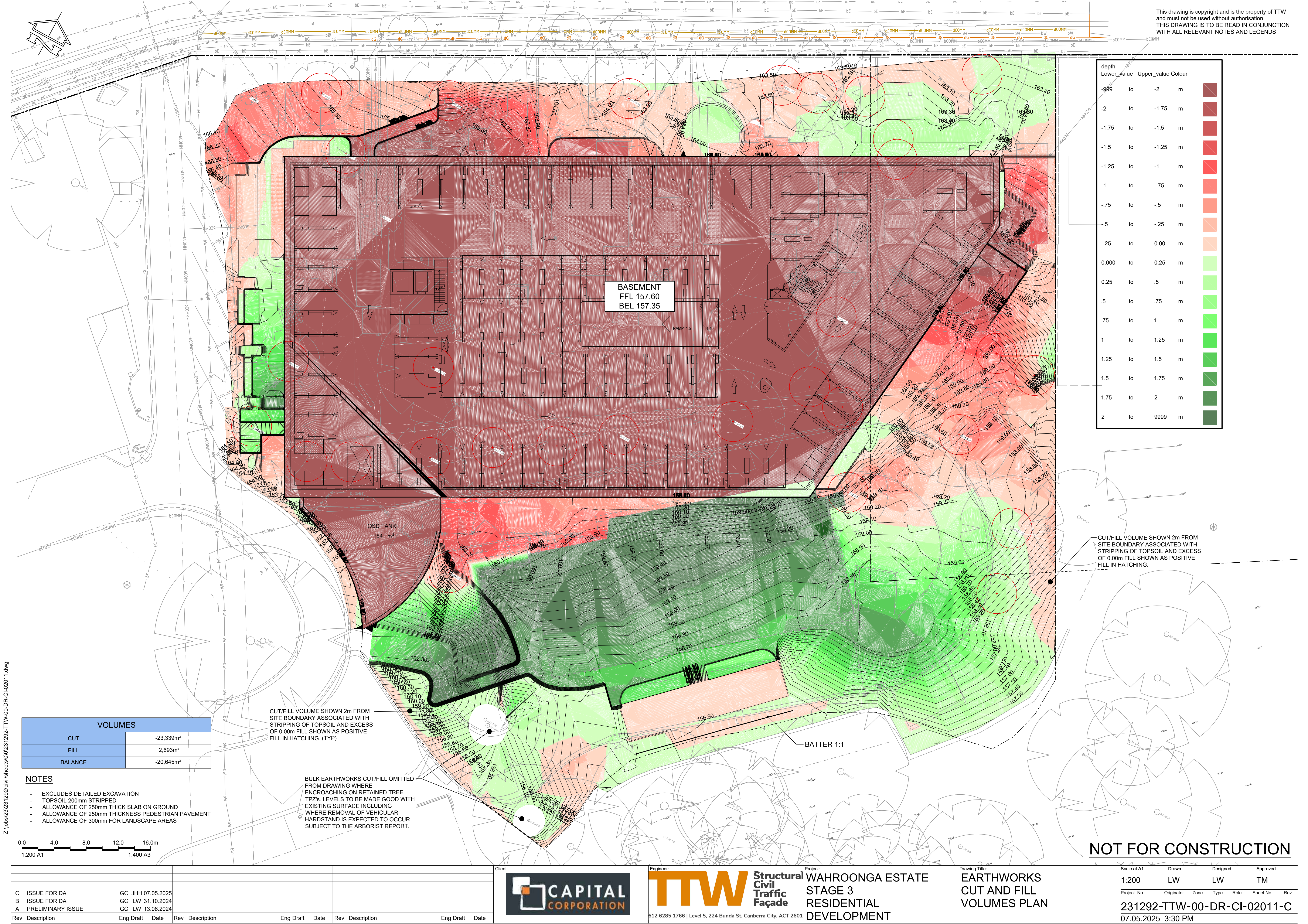
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			Client:			Engineer:			Project:			Drawing Title:			Scale at A1			Drawn			Designed			Approved		
									WAHROONGA ESTATE			EARTHWORKS			NTS			LW			LW			TM		
C ISSUE FOR DA GC JHH 07.05.2025									STAGE 3						Project No			Originator			Zone			Type		
B ISSUE FOR DA GC LW 31.10.2024									RESIDENTIAL						231292-TTW-00-DR-CI-02001-C			Rev			Role			Sheet No.		
A PRELIMINARY ISSUE GC LW 13.06.2024									DEVELOPMENT						07.05.2025 3:27 PM											
Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date															



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depth		Lower_value		Upper_value	Colour
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-1.75	to	-1.5		m	
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-.75	to	-.5		m	
-.5	to	-.25		m	
-.25	to	0.00		m	
0.000	to	0.25		m	
0.25	to	.5		m	
.5	to	.75		m	
.75	to	1		m	
1	to	1.25		m	
1.25	to	1.5		m	
1.5	to	1.75		m	
1.75	to	2		m	
2	to	9999		m	

VOLUMES	
CUT	-23,339m³
FILL	2,693m³
BALANCE	-20,645m³

NOTES

- EXCLUDES DETAILED EXCAVATION
- TOPSOIL 200mm STRIPPED
- ALLOWANCE OF 250mm THICK SLAB ON GROUND
- ALLOWANCE OF 250mm THICKNESS PEDESTRIAN PAVEMENT
- ALLOWANCE OF 300mm FOR LANDSCAPE AREAS

CUT/FILL VOLUME SHOWN 2m FROM SITE BOUNDARY ASSOCIATED WITH STRIPPING OF TOPSOIL AND EXCESS OF 0.00m FILL SHOWN AS POSITIVE FILL IN HATCHING. (TYP)

BULK EARTHWORKS CUT/FILL OMITTED FROM DRAWING WHERE ENCROACHING ON RETAINED TREE TPZ's. LEVELS TO BE MADE GOOD WITH EXISTING SURFACE INCLUDING WHERE REMOVAL OF VEHICULAR HARDSTAND IS EXPECTED TO OCCUR SUBJECT TO THE ARBORIST REPORT.

CUT/FILL VOLUME SHOWN 2m FROM SITE BOUNDARY ASSOCIATED WITH STRIPPING OF TOPSOIL AND EXCESS OF 0.00m FILL SHOWN AS POSITIVE FILL IN HATCHING.



NOT FOR CONSTRUCTION

Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date
C	ISSUE FOR DA	GC	JHH 07.05.2025								
B	ISSUE FOR DA	GC	LW 31.10.2024								
A	PRELIMINARY ISSUE	GC	LW 13.06.2024								



Engineer
TTW Structural Civil Traffic Façade
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Project:
**WAHROONGA ESTATE
STAGE 3
RESIDENTIAL
DEVELOPMENT**

Drawing Title:
**EARTHWORKS
CUT AND FILL
VOLUMES PLAN**

Scale at A1	Drawn	Designed	Approved			
1:200	LW	LW	TM			
Project No	Originator	Zone	Type	Role	Sheet No.	Rev
231292-TTW-00-DR-CI-02011-C						
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CONCRETE

1. PLACE CONCRETE OF THE FOLLOWING CHARACTERISTIC COMPRESSIVE STRENGTH f_c IN ACCORDANCE WITH AS 1379.
- 2.

LOCATION	f_c MPa (28 DAYS)	SPECIFIED SLUMP	NOMINAL AGG. SIZE
KERBS	S20	80	20
RETAINING WALL FOOTINGS	S40	80	20

3. USE TYPE 'GP' CEMENT, UNLESS OTHERWISE SPECIFIED.
4. ALL CONCRETE SHALL BE SUBJECT TO PROJECT ASSESSMENT AND TESTING TO AS 1379.
5. CONSOLIDATE BY MECHANICAL VIBRATION. CURE ALL CONCRETE SURFACES AS DIRECTED IN THE SPECIFICATION.
6. FOR ALL FALLS IN SLAB, DRIP GROOVES, REGLETS, CHAMFERS ETC. REFER TO ARCHITECTS DRAWINGS AND SPECIFICATIONS.
7. UNLESS SHOWN ON THE DRAWINGS, THE LOCATION OF ALL CONSTRUCTION JOINTS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
8. NO HOLES OR CHASES SHALL BE MADE IN THE SLAB WITHOUT THE APPROVAL OF THE ENGINEER.
9. CONDUITS AND PIPES ARE TO BE FIXED TO THE UNDERSIDE OF THE TOP REINFORCEMENT LAYER.
10. SLURRY USED TO LUBRICATE CONCRETE PUMP LINES IS NOT TO BE USED IN ANY STRUCTURAL MEMBERS.
11. ALL SLABS CAST ON GROUND REQUIRE SAND BLINDING WITH A CONCRETE UNDERLAY

CONCRETE FINISHING

1. ALL EXPOSED CONCRETE PAVEMENTS ARE TO BE BROOMED FINISHED.
2. ALL EDGES OF THE CONCRETE PAVEMENT INCLUDING KEYED AND DOWELLED JOINTS ARE TO BE FINISHED WITH AN EDGING TOOL.
3. CONCRETE PAVEMENTS WITH GRADES GREATER THAN 10 % SHALL BE HEAVILY BROOMED FINISHED.
4. CARBORUNDUM TO BE ADDED TO ALL STAIR TREADS AND RAMPED CROSSINGS U.N.O.

FORMWORK

1. THE DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK, FALSEWORK AND BACKPROPPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROPOSED METHOD OF INSTALLATION AND REMOVAL OF FORMWORK IS TO BE SUBMITTED TO THE SUPERINTENDENT FOR COMMENT PRIOR TO WORK BEING CARRIED OUT.

CONCRETE REINFORCEMENT

1. FIX REINFORCEMENT AS SHOWN ON DRAWINGS. THE TYPE AND GRADE IS INDICATED BY A SYMBOL AS SHOWN BELOW. ON THE DRAWINGS THIS IS FOLLOWED BY A NUMERAL WHICH INDICATES THE SIZE IN MILLIMETRES OF THE REINFORCEMENT.

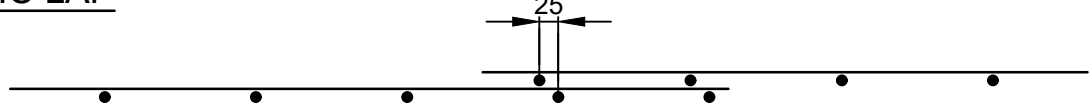
SYMBOL	TYPE	GRADE
N	HOT ROLLED RIBBED BAR	DN500N
R	PLAIN ROUND BAR	R250N
SL	SQUARE MESH	500L
RL	RECTANGULAR MESH	500L

2. PROVIDE BAR SUPPORTS OR SPACERS TO GIVE THE FOLLOWING CONCRETE COVER TO ALL REINFORCEMENT UNLESS OTHERWISE NOTED ON DRAWINGS.

LOCATION	COVER (mm)
FOOTINGS	50
WALLS	30

3. COVER TO REINFORCEMENT ENDS TO BE 50 mm U.N.O.
4. PROVIDE N12-450 SUPPORT BARS TO TOP REINFORCEMENT AS REQUIRED, LAP 500 U.N.O.
5. MAINTAIN COVER TO ALL PIPES, CONDUITS, REGLETS, DRIP GROOVES ETC
6. ALL COGS TO BE STANDARD COGS UNLESS NOTED OTHERWISE.
7. FABRIC END AND SIDE LAPS ARE TO BE PLACED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS TO ACHIEVE A FULL TENSILE LAP. FABRIC SHALL BE LAID SO THAT THERE IS A MAXIMUM OF 3 LAYERS AT ANY LOCATION.

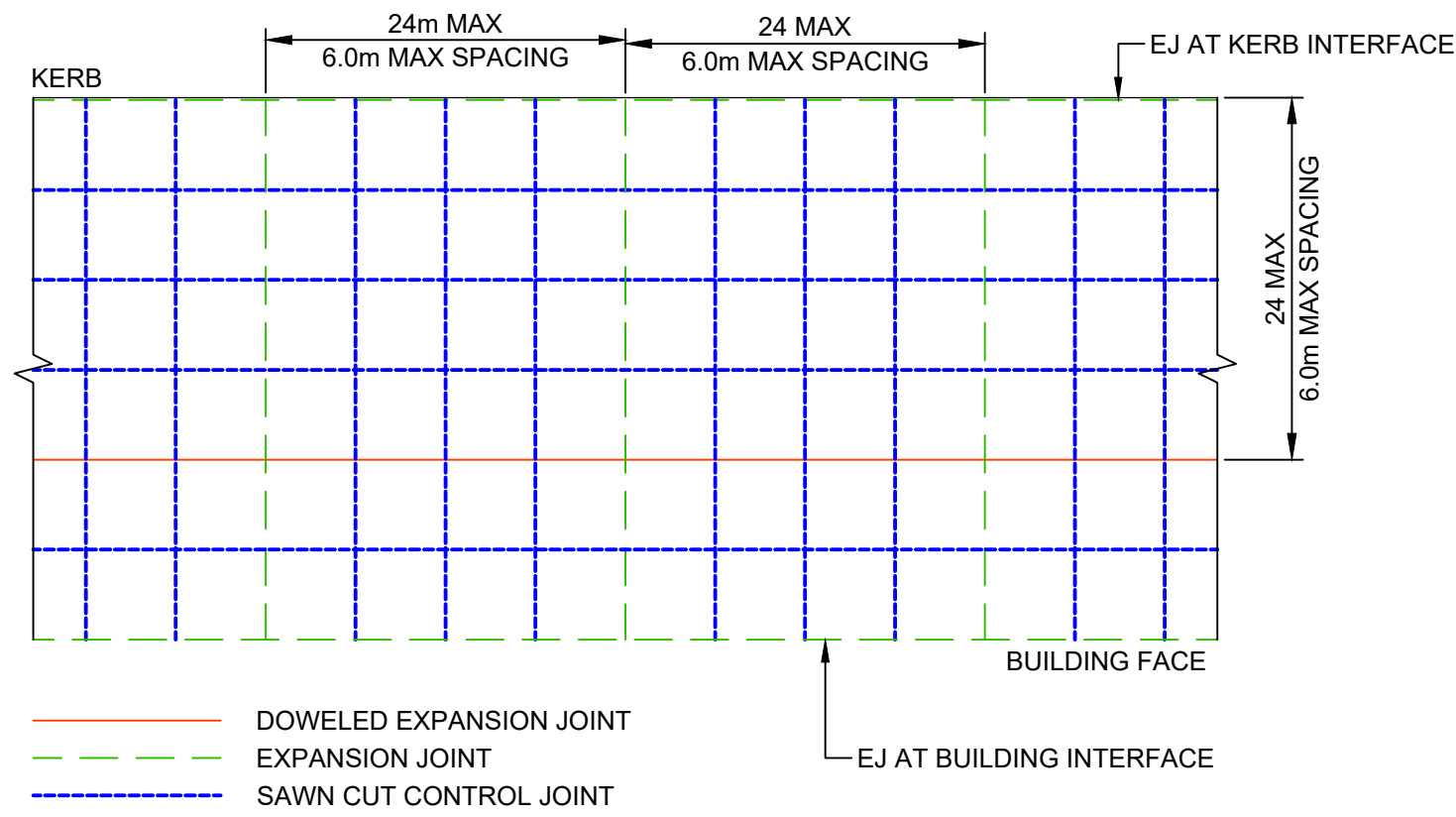
FABRIC LAP



8. LAPS IN REINFORCEMENT SHALL BE MADE ONLY WHERE SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED. LAP LENGTHS AS PER TABLE BELOW.

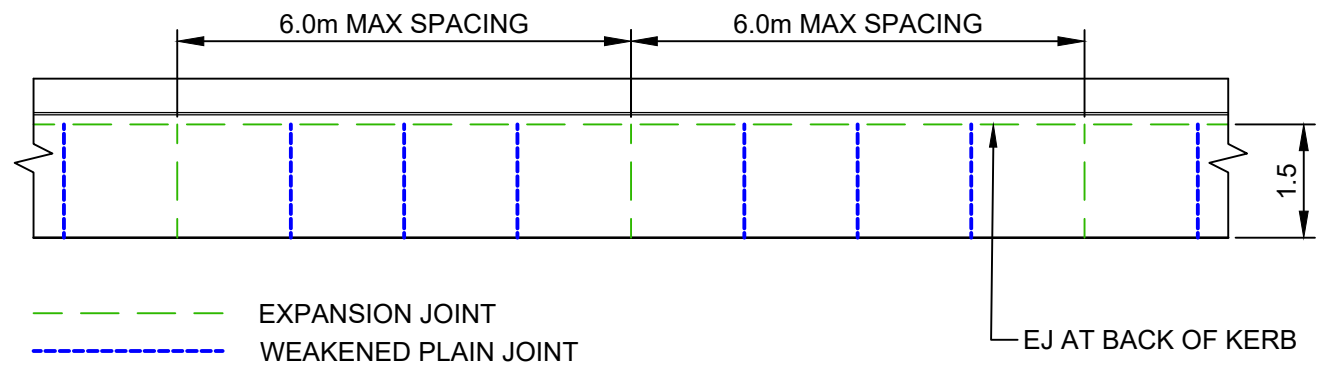
VEHICULAR PAVEMENT JOINTING (03000 SERIES DRAWINGS)

1. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS SHOWN ON DRAWINGS.
2. DOWEL BARS ARE TO BE IN ACCORDANCE WITH GIVEN DETAIL. REFER 03000 SERIES DRAWINGS.
3. DOWELED EXPANSION JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 24.0M CENTRES.
4. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAXIMUM OF 6.0M CENTRES OR 1.5 X THE SPACING OF PERPENDICULAR SAWN JOINTS.
5. PROVIDE 10mm WIDE FULL DEPTH EXPANSION JOINTS BETWEEN BUILDINGS/STRUCTURES AND ALL CONCRETE OR UNIT PAVERS.
6. THE TIMING OF THE SAW CUT IS TO BE CONFIRMED BY THE CONTRACTOR ON SITE. SITE CONDITIONS WILL DETERMINE HOW MANY HOURS AFTER THE CONCRETE POUR BEFORE THE SAW CUTS ARE COMMENCED. REFER TO THE SPECIFICATION FOR WEATHER CONDITIONS AND TEMPERATURES REQUIRED.
7. VEHICULAR PAVEMENT JOINTING AS FOLLOWS.



PEDESTRIAN PATH JOINTING (03000 SERIES DRAWINGS)

1. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 6.0M CENTRES.
2. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX 1.5 X WIDTH OF THE PAVEMENT.
3. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND / OR ADJACENT PAVEMENT JOINTS.
4. ALL PEDESTRIAN FOOTPATH JOINTING AS FOLLOWS (UNO).



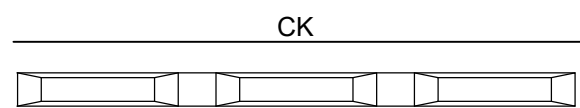
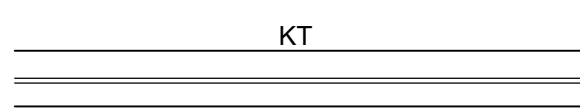
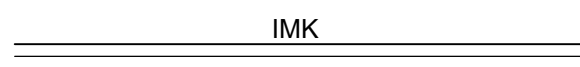
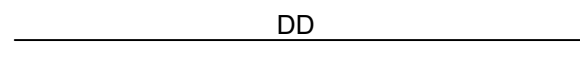
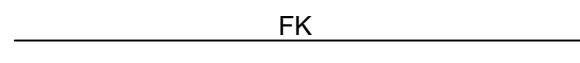
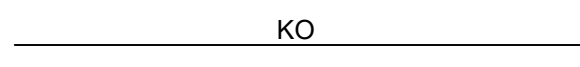
KERBING

INCLUDES ALL KERBS, GUTTERS, DISH DRAINS, CROSSINGS AND EDGES.

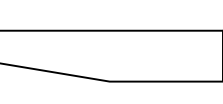
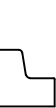
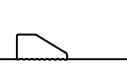
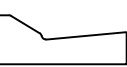
1. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MINIMUM 75mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1.
2. EXPANSION JOINTS (EJ) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT 12M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
3. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3M CENTRES EXCEPT FOR INTEGRAL KERBS WHERE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN SLABS.
4. BROOMED FINISHED TO ALL RAMPED AND VEHICULAR CROSSINGS, ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
5. IN THE REPLACEMENT OF KERBS - EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm FROM LIP OF GUTTER. UPON COMPLETION OF NEW KERBS, NEW BASE COURSE AND SURFACE IS TO BE LAID 900mm WIDE TO MATCH EXISTING MATERIALS AND THICKNESSES. EXISTING ALLOTMENT DRAINAGE PIPES ARE TO BE BUILT INTO THE NEW KERB WITH A 100mm DIA HOLE. EXISTING KERBS ARE TO BE COMPLETELY REMOVED WHERE NEW KERBS ARE SHOWN.

KERB TYPES

PLAN



PROFILE



DESCRIPTION

KERB AND GUTTER

KERB ONLY

FLUSH KERB

DISH DRAIN

MOUNTABLE KERB

MOUNTABLE KERB AND GUTTER

INTEGRAL KERB ONLY

INTEGRAL MOUNTABLE KERB

KERB AND TOE

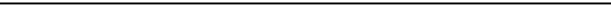
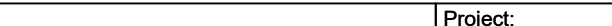
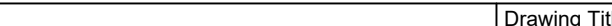
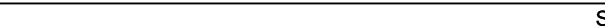
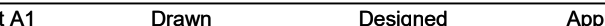
CASTELLATED KERB

THICKENED EDGE

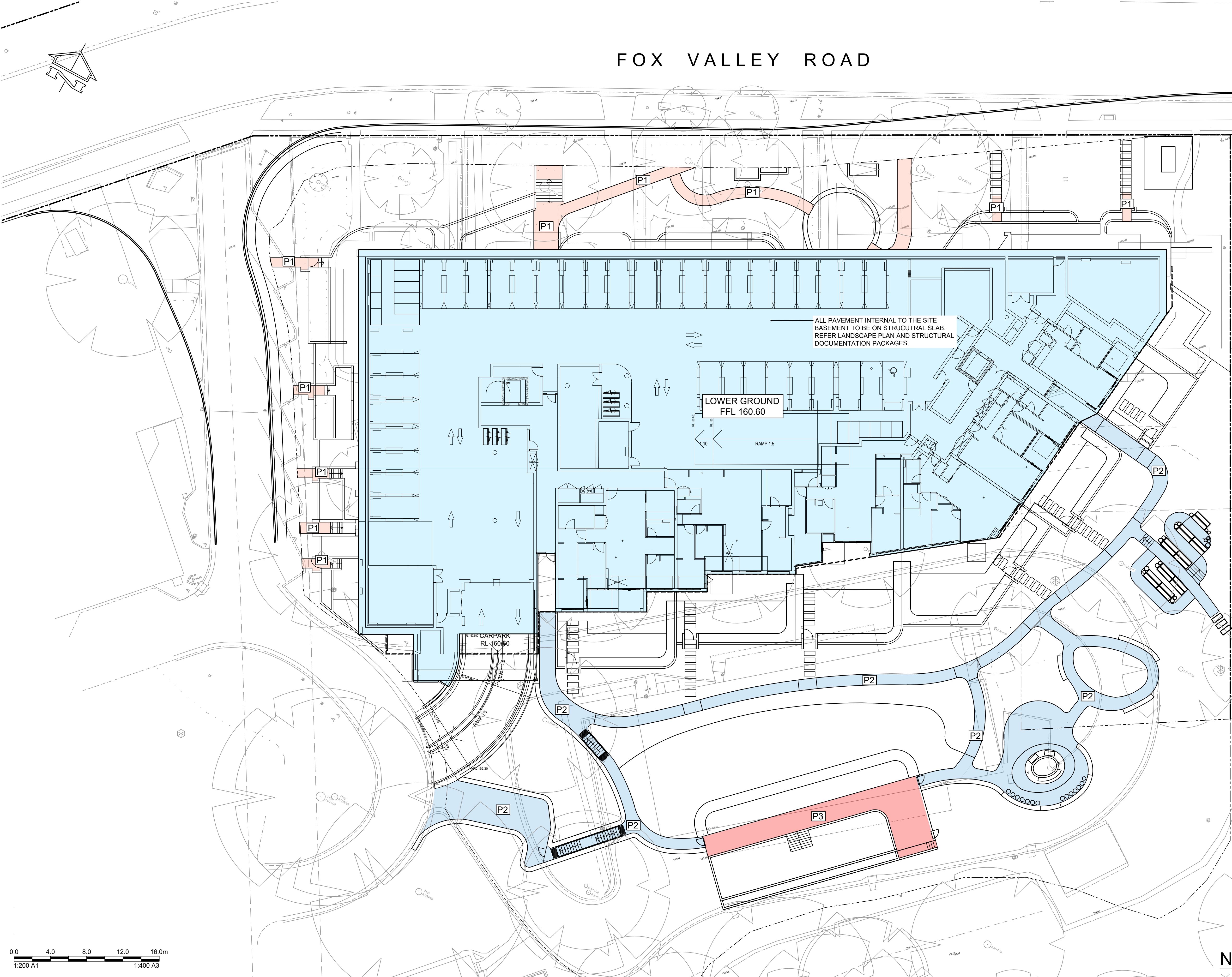
NOTE

PAVEMENT NOTES AND LEGEND IS TO READ IN CONJUNCTION WITH GENERAL NOTES AND LEGEND. REFER DRAWING No. 00002

NOT FOR CONSTRUCTION

																																																																					
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PAVEMENT LEGEND

P1

UNIT PAVING 1
FINISH AS PER LANDSCAPE DOCUMENTATION
150mm CONCRETE F'C=32MPa SL82
100mm DGB20
SUBJECT TO FURTHER INVESTIGATION/TESTING
FROM GEOTECHNICAL ENGINEER TO CONFIRM
THE SUBGRADE CBR VALUE DURING DESIGN
DEVELOPMENT STAGE

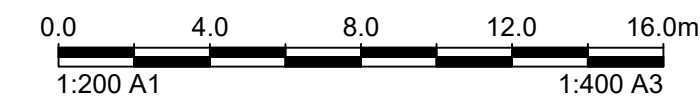
P2

PATHWAY
FINISH AS PER LANDSCAPE DOCUMENTATION
25mm SAND BEDDING
150mm DGB20
SUBJECT TO FURTHER INVESTIGATION/TESTING
FROM GEOTECHNICAL ENGINEER TO CONFIRM
THE SUBGRADE CBR VALUE DURING DESIGN
DEVELOPMENT STAGE

P3

UNIT PAVING 3
POOL DECKING TO STRUCTURAL
SPECIFICATIONS

NOTE:
SOFTWARES AND PLANTERS, REFER TO
LANDSCAPE ARCHITECTS SPECIFICATIONS



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Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
C	ISSUE FOR DA	GC	JHH	07.05.2025										
B	ISSUE FOR DA	GC	LW	31.10.2024										
A	PRELIMINARY ISSUE	GC	LW	13.06.2024										



Engineer

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Structural
Civil
Traffic
Façade

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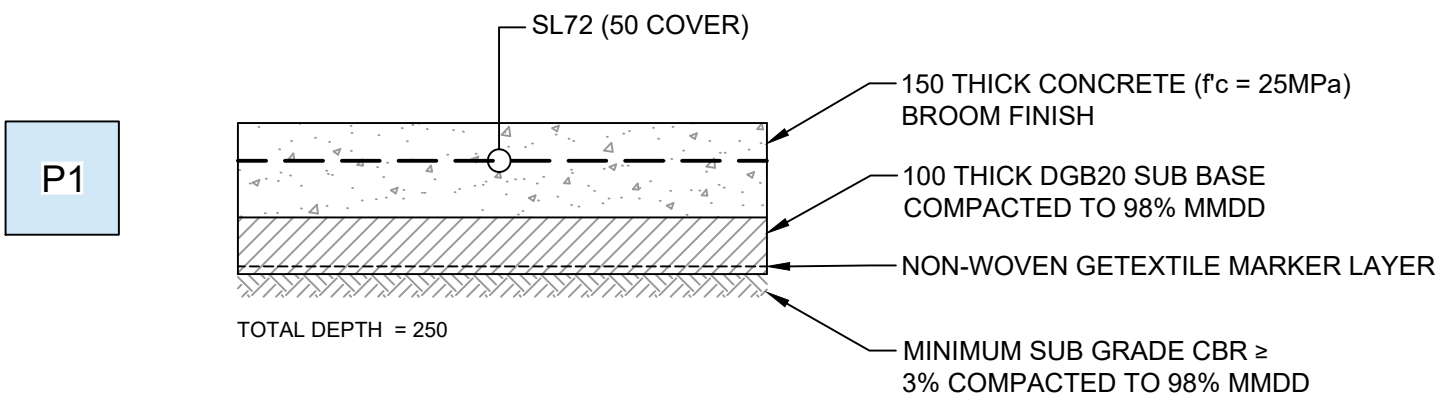
Project

WAHROONGA ESTATE
STAGE 3
RESIDENTIAL
DEVELOPMENT

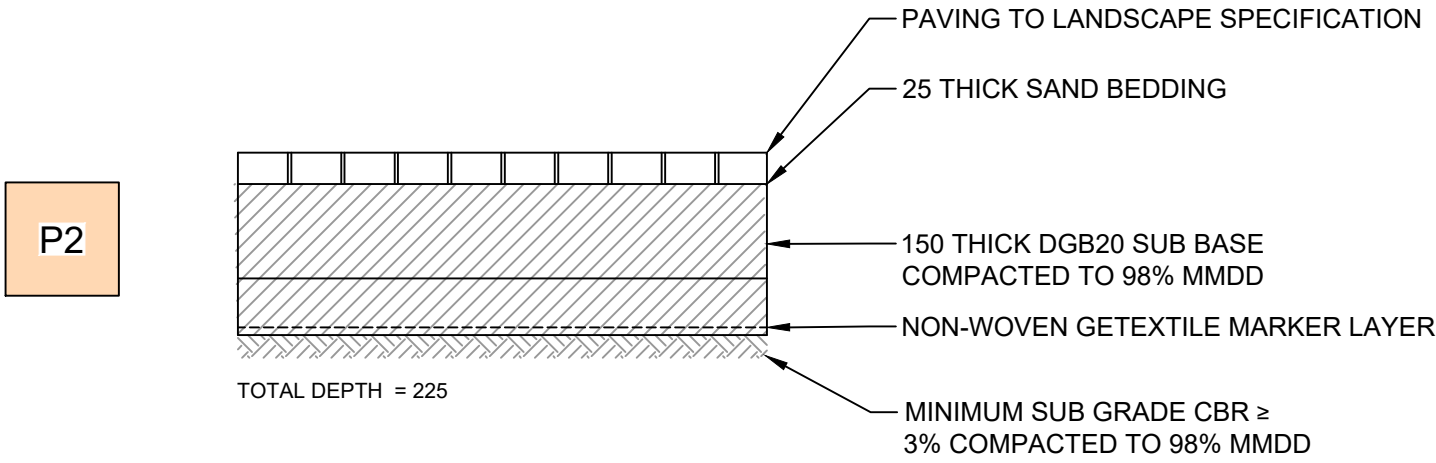
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PAVEMENT
PLAN

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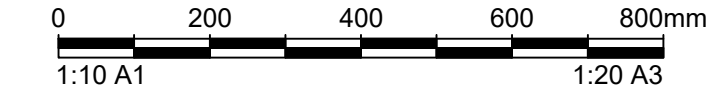


PAVEMENT TYPE 1
INSITU CONCRETE PAVING
SCALE 1:10



PAVEMENT TYPE 2
UNIT PATHWAY
SCALE 1:10

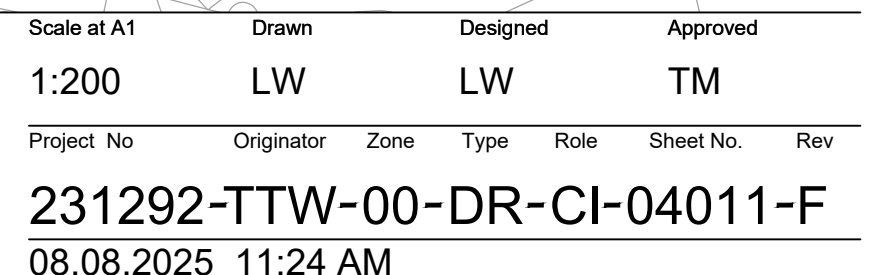
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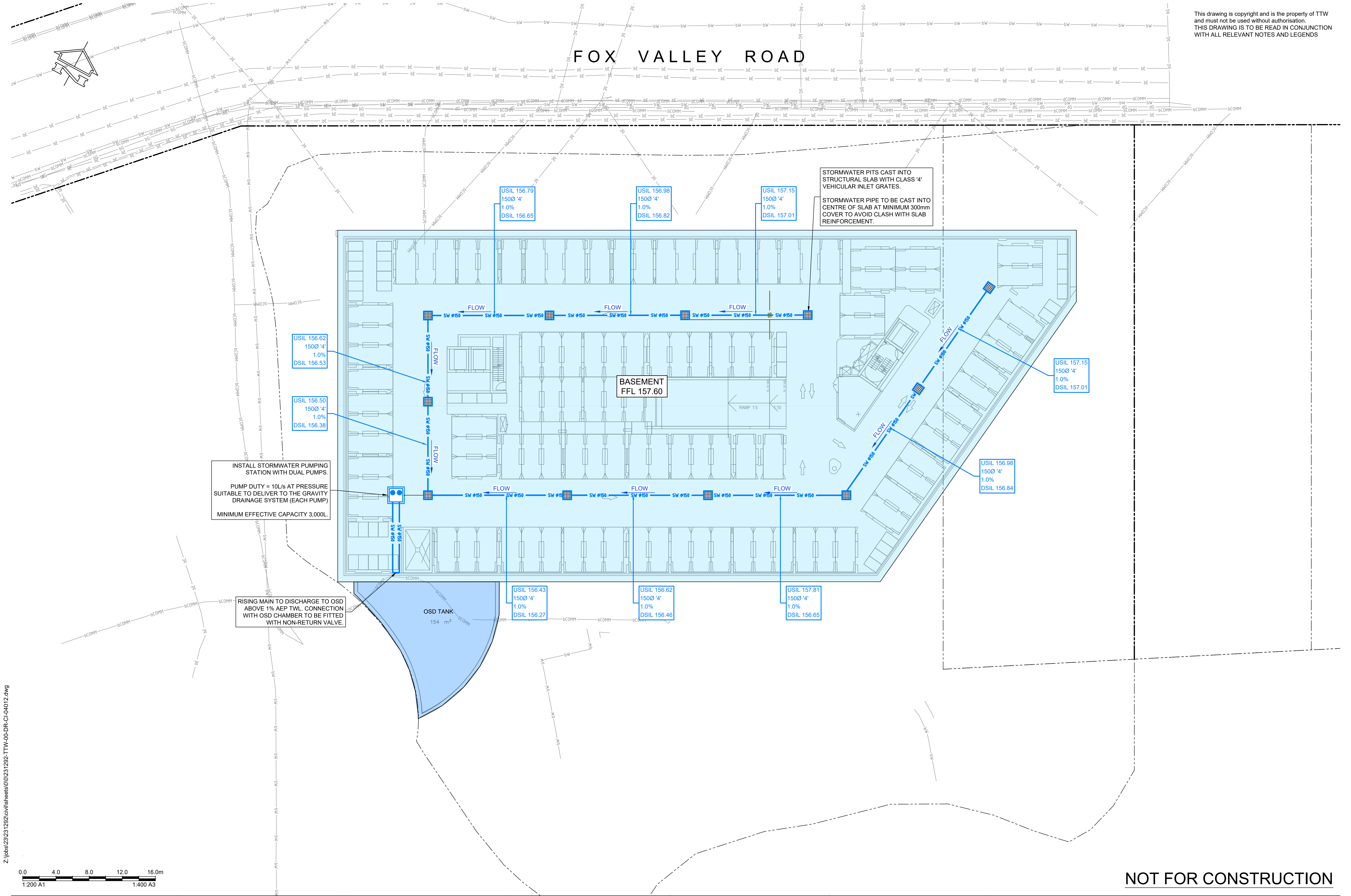
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FOX VALLEY ROAD



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		Eng Draft	Date		



Engineer

TTW Structural Civil Traffic Façade

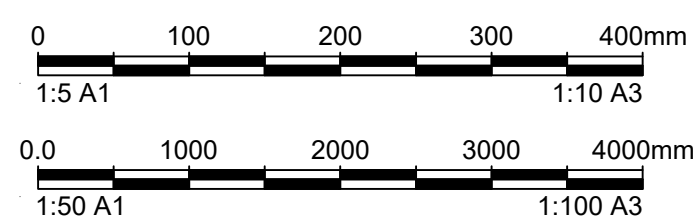
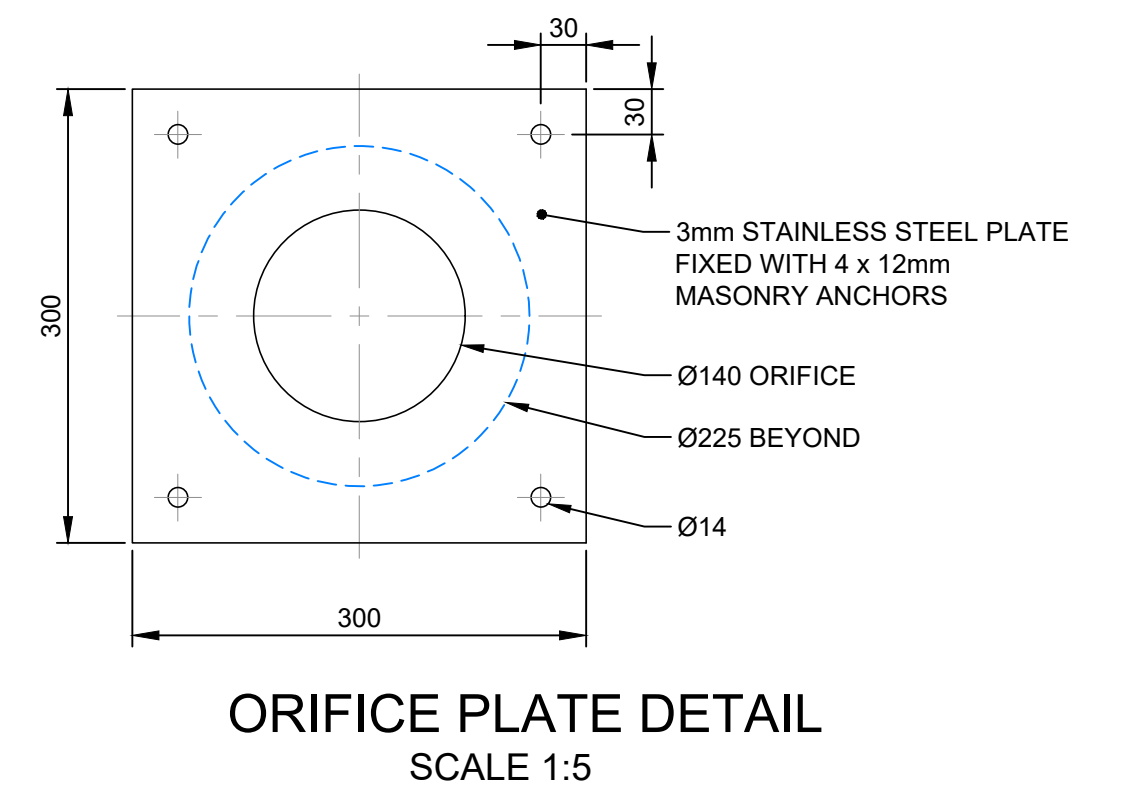
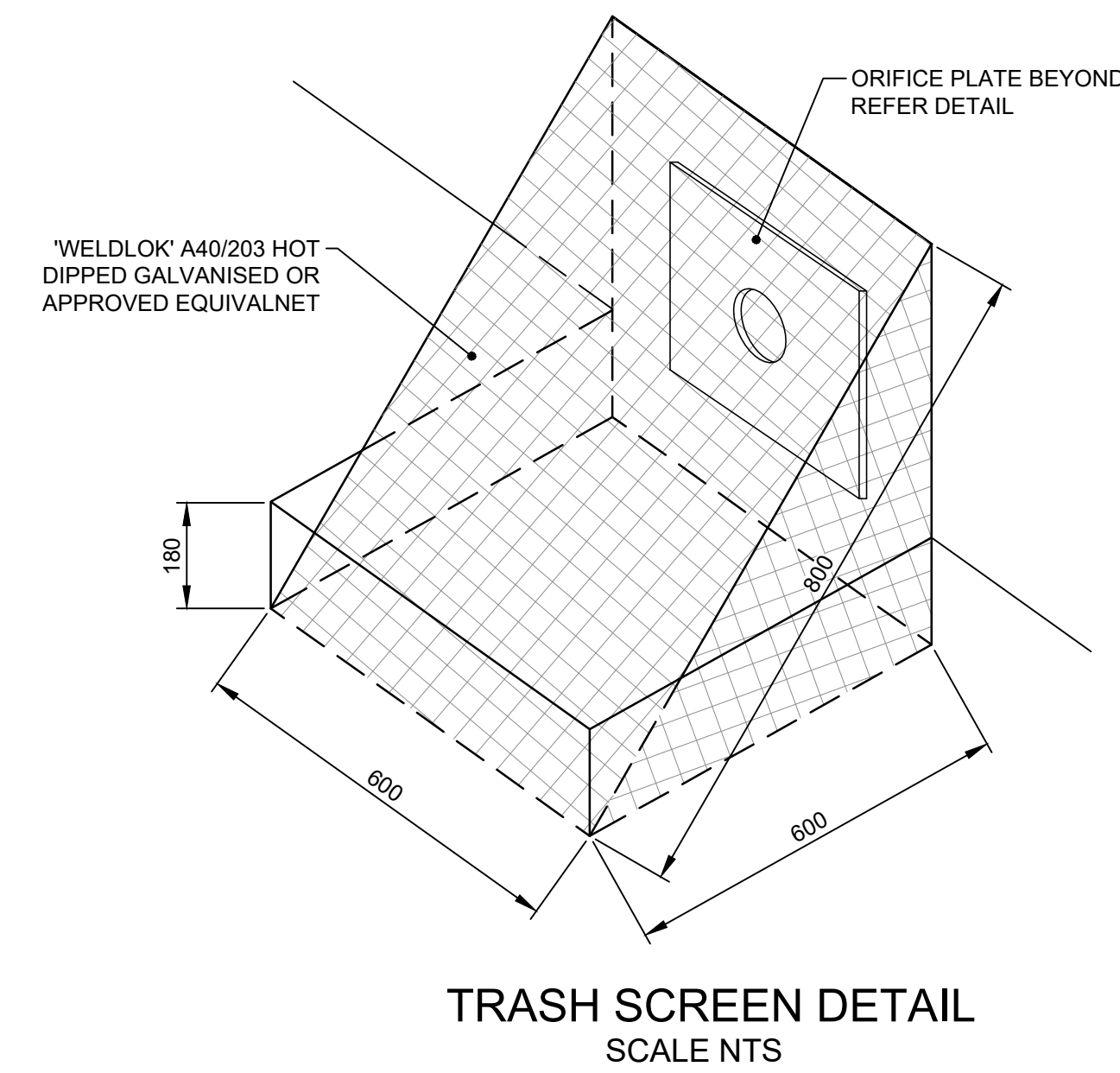
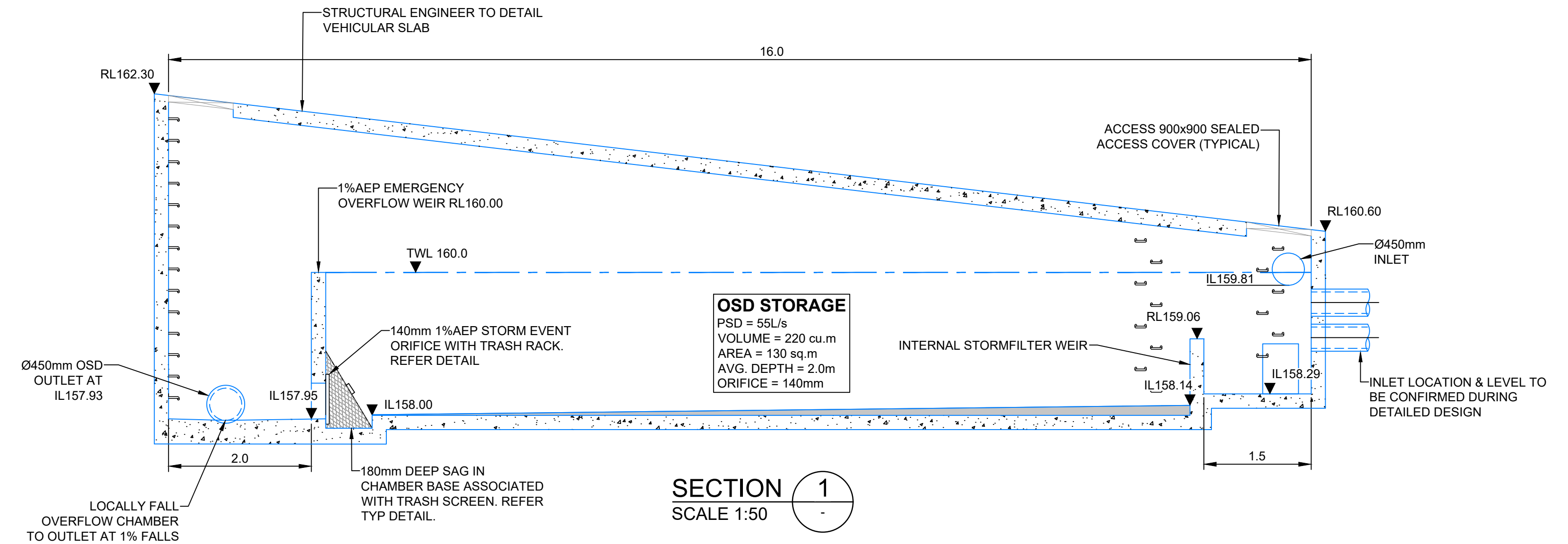
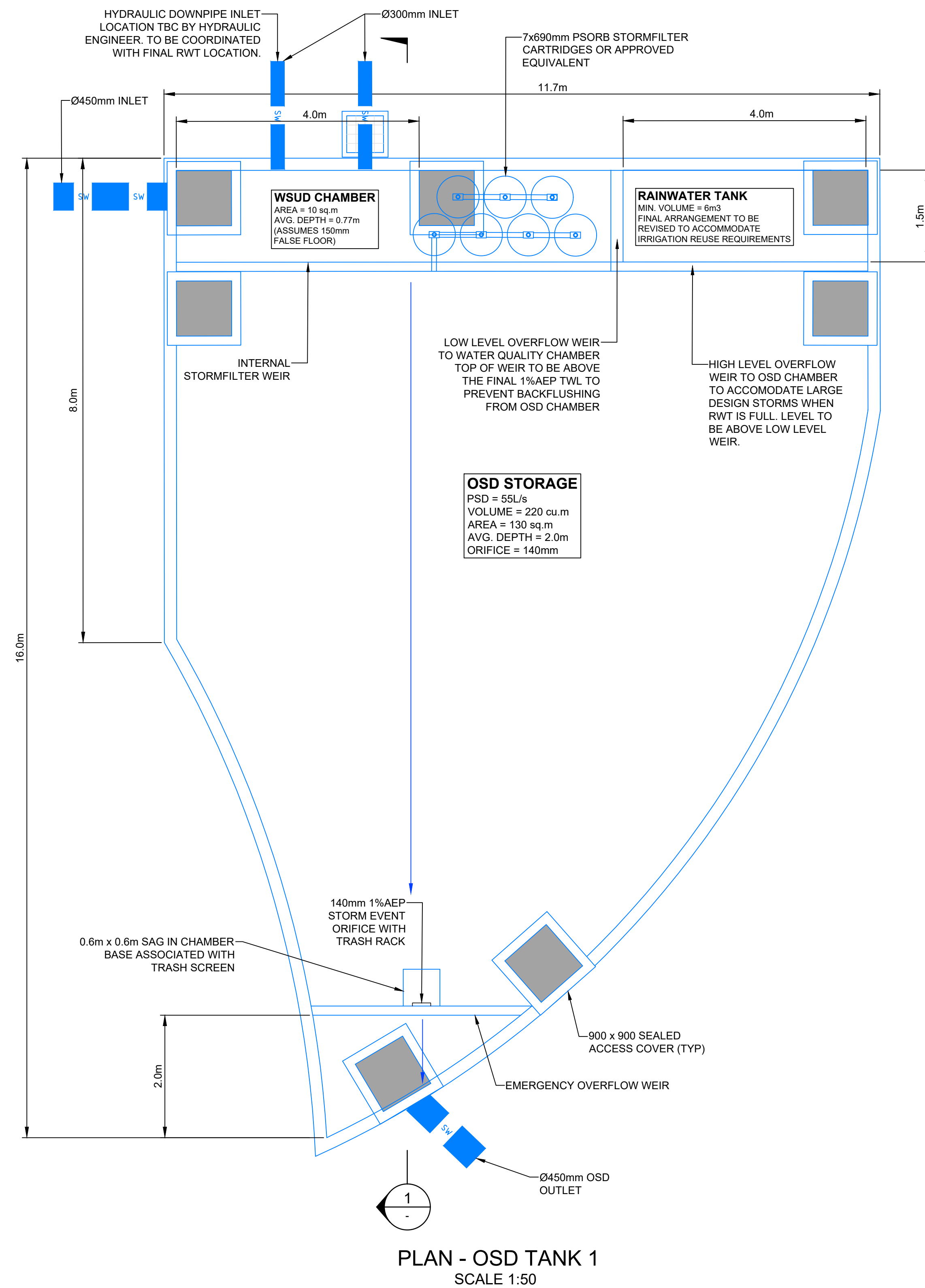
612 6285 1766 | Level 5, 224 Bunda St, Canberra City, ACT 2601

Project: WAHROONGA ESTATE
STAGE 3
RESIDENTIAL
DEVELOPMENT

Drawing Title:
STORMWATER
AND SUBSOIL DRAINAGE
BASEMENT PLAN

Scale at A1	Drawn	Designed	Approved
1:200	LW	LW	TM
Project No	Originator	Zone	Type
231292-TTW-00-DR-CI-04012-A			
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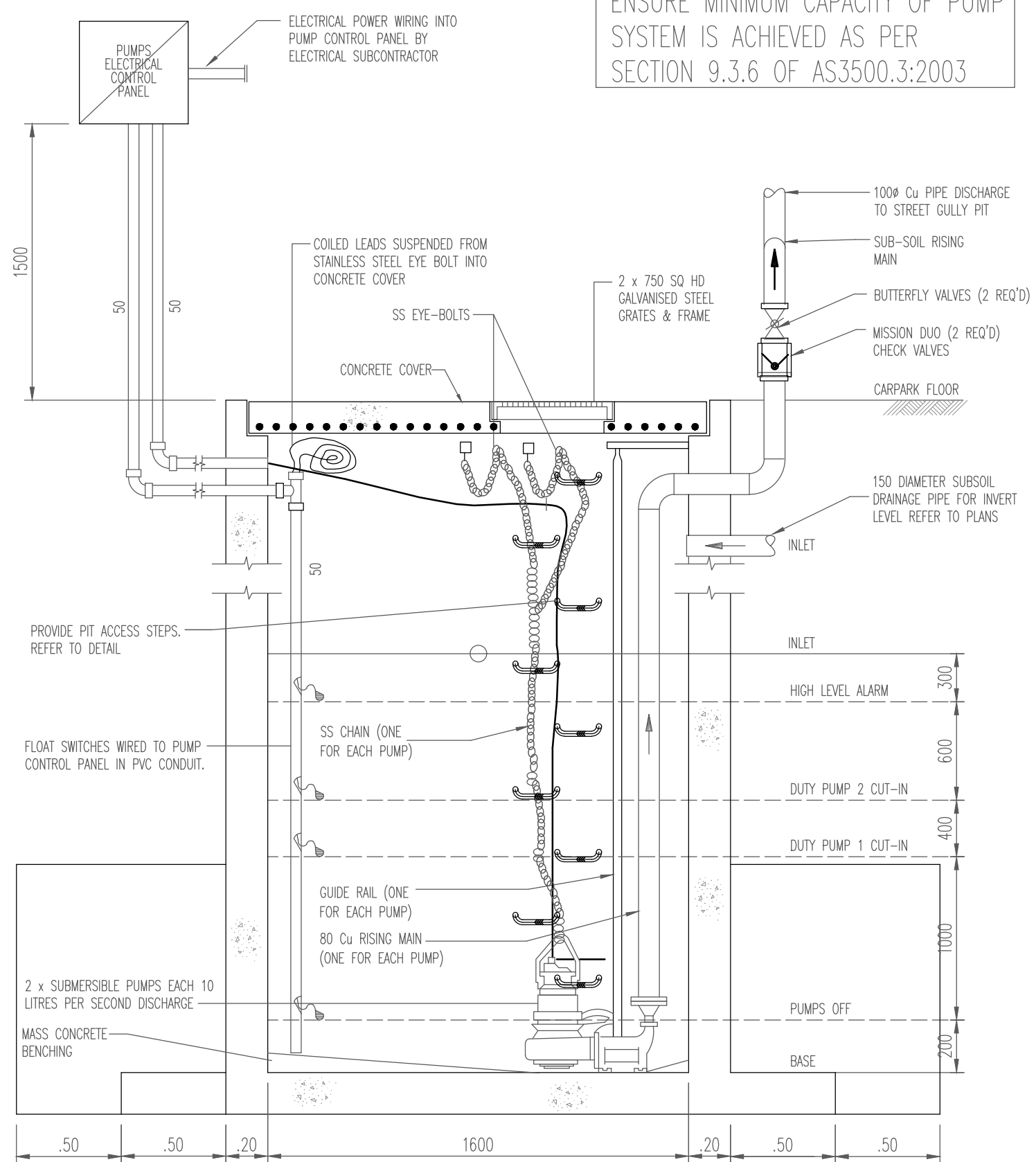
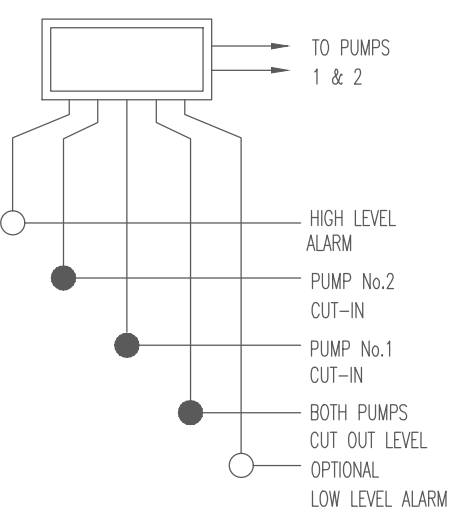
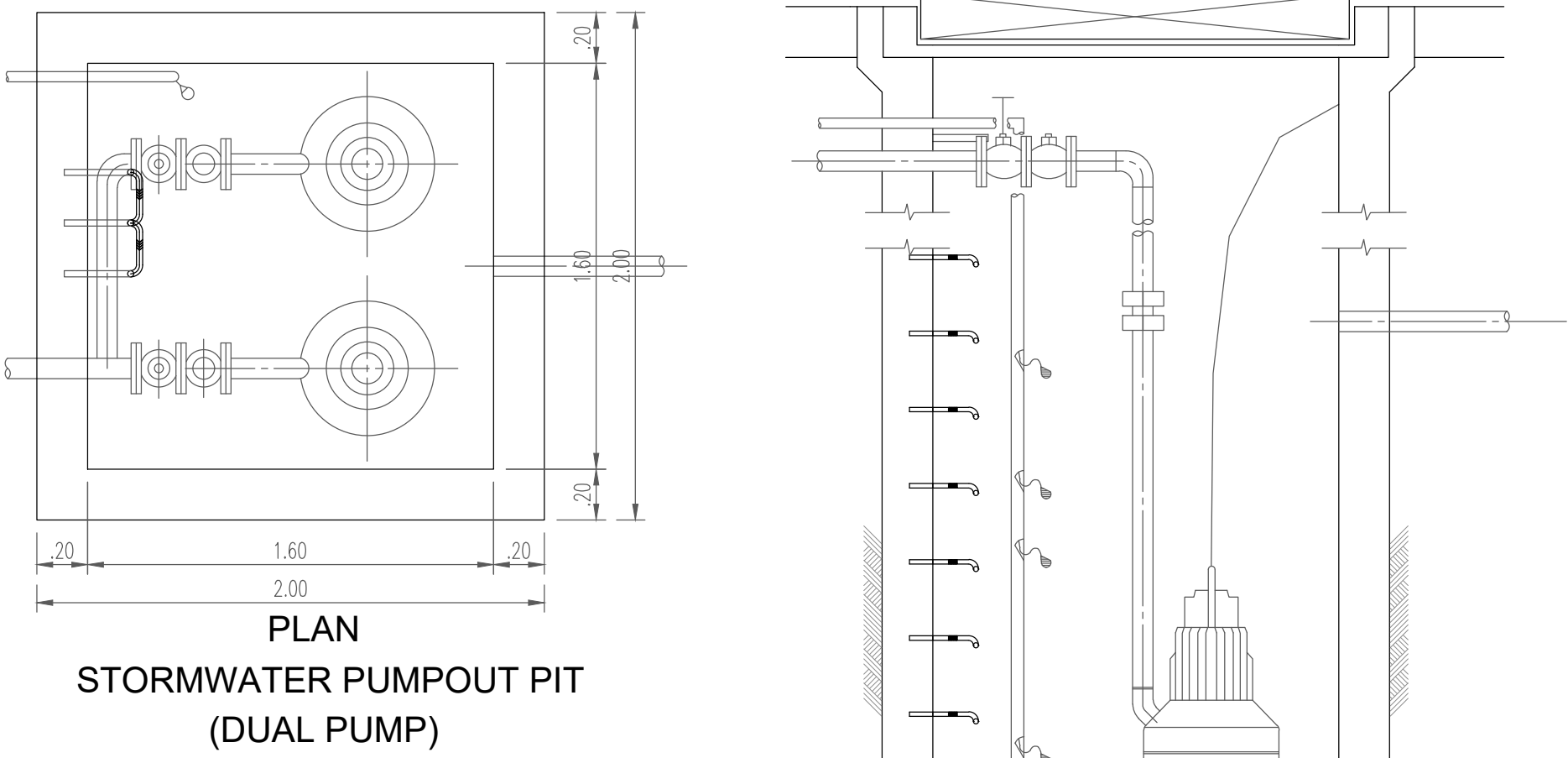
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												Engineer:  612 6285 1766 Level 5, 224 Bunda St, Canberra City, ACT 2601				Project: WAHROONGA ESTATE STAGE 3 RESIDENTIAL DEVELOPMENT				Drawing Title: STORMWATER DETAILS SHEET 1				<table><tr><th>Scale at A1</th><th>Drawn</th><th>Designed</th><th>Approved</th></tr><tr><td>AS SHOWN</td><td>LW</td><td>LW</td><td>TM</td></tr></table>				Scale at A1	Drawn	Designed	Approved	AS SHOWN	LW	LW	TM
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SECTIONAL ELEVATION
STORM WATER PUMPOUT CHAMBER
TO MANUFACTURERS SPECIFICATION
(DUAL PUMP)

N.T.S.

STORM WATER PUMP

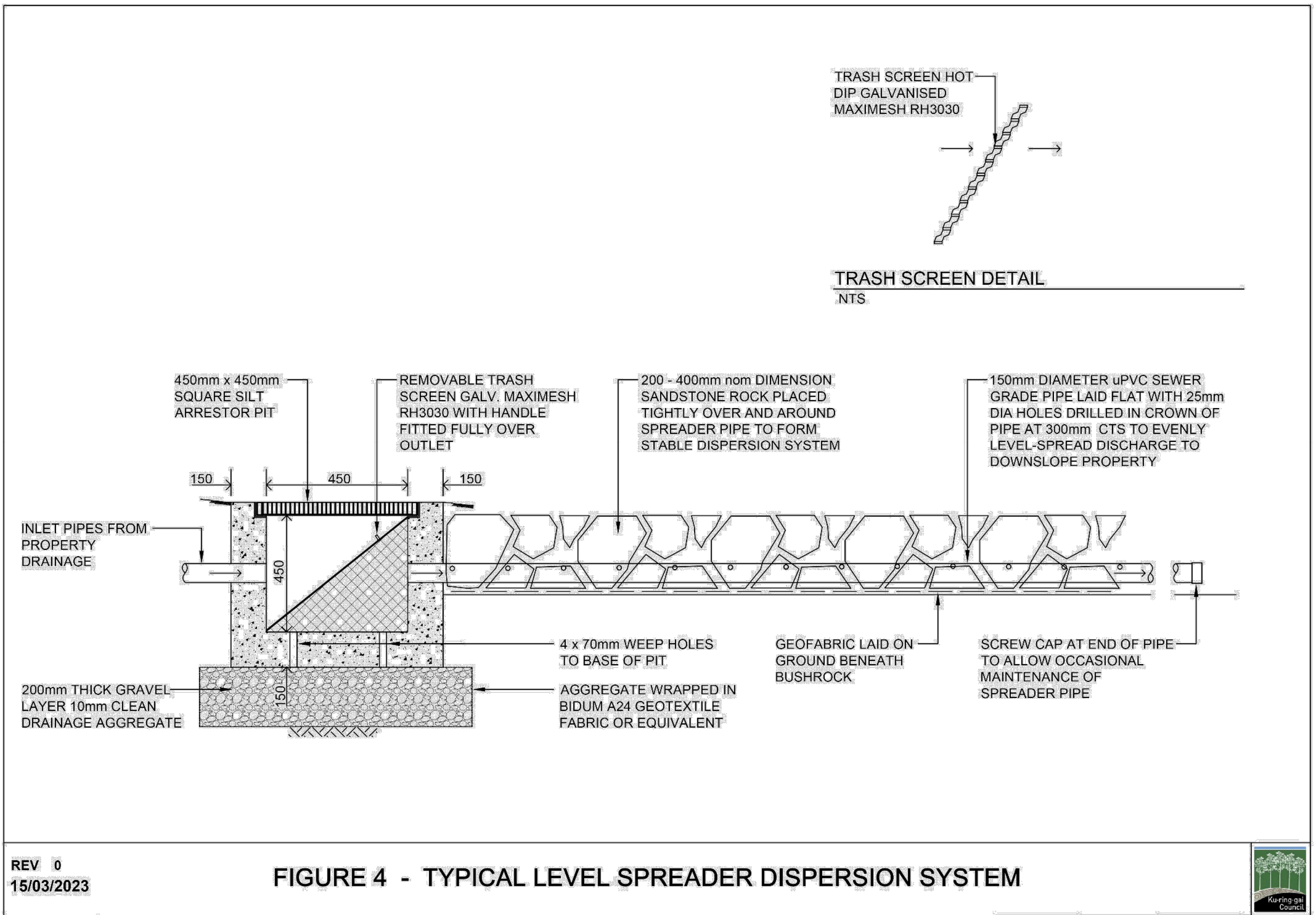
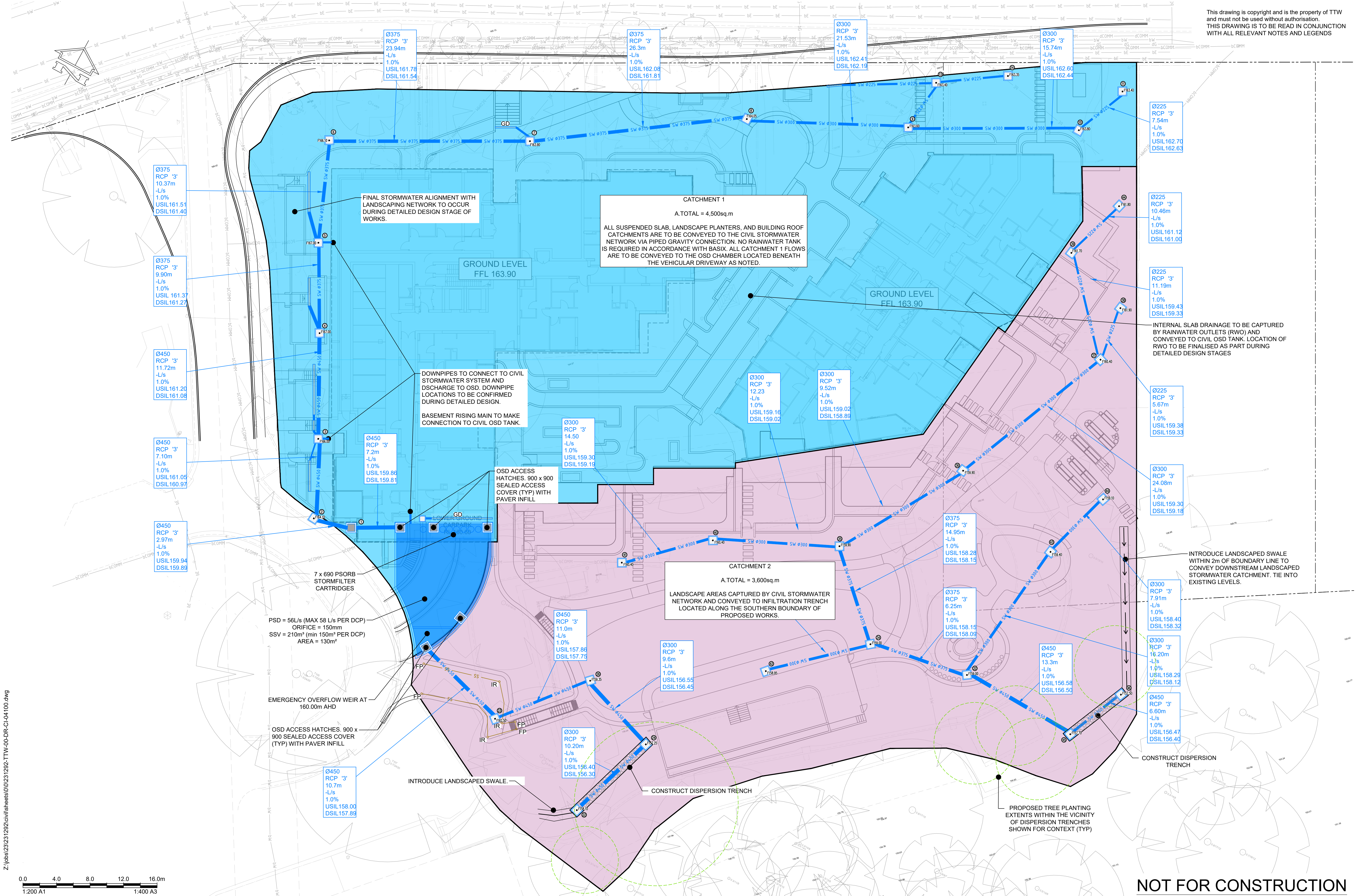
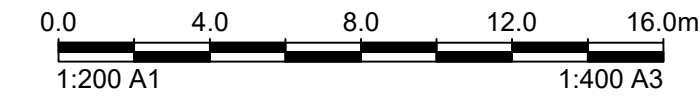


FIGURE 4 - TYPICAL LEVEL SPREADER DISPERSION SYSTEM

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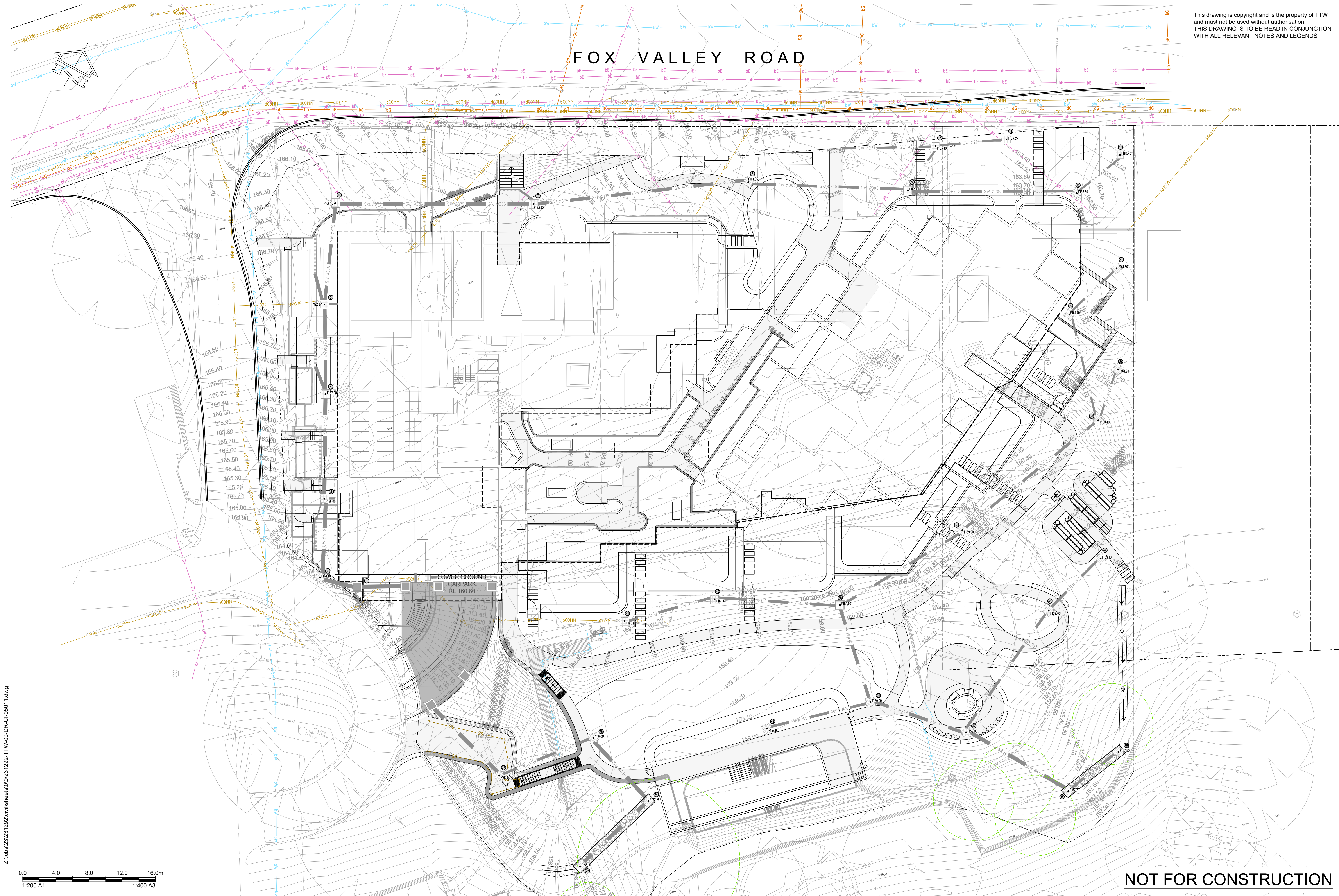
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A	ISSUE FOR DA	GC	ES 07.05.2025				



Client: WAHROONGA ESTATE
STAGE 3
RESIDENTIAL
DEVELOPMENT

Drawing Title: STORMWATER-FLOOD
CATCHMENT PLAN

Scale at A1	Drawn	Designed	Approved			
1:200	LW	LW	TM			
Project No	Originator	Zone	Type	Role	Sheet No.	Rev
231292-TTW-00-DR-CI-04100-B						
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C	ISSUE FOR DA	GC	JHH 07.05.2025								
B	ISSUE FOR DA	GC	LW 31.10.2024								
A	PRELIMINARY ISSUE	GC	LW 13.06.2024								



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**Structural
Civil
Traffic
Façade**

Project:
**WAHROONGA ESTATE
STAGE 3
RESIDENTIAL
DEVELOPMENT**

Drawing Title:
**UTILITIES-COORDINATION
PLAN**

Scale at A1	Drawn		Designed		Approved	
1:200	LW		LW		TM	
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EROSION AND SEDIMENT CONTROL

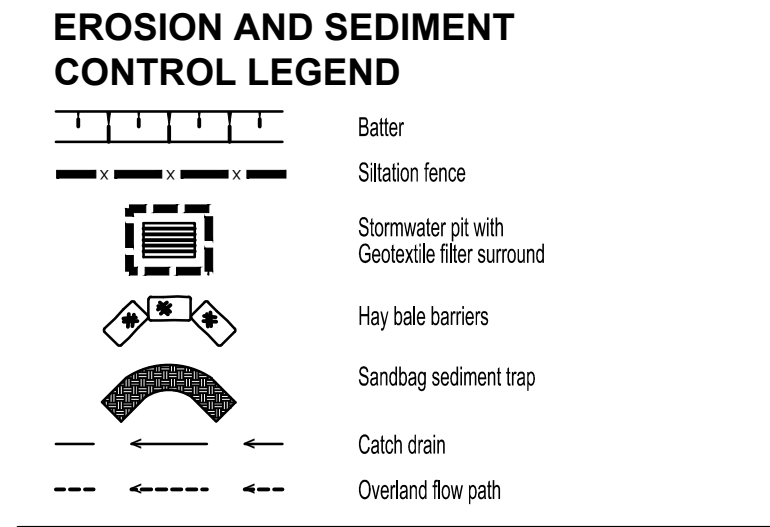
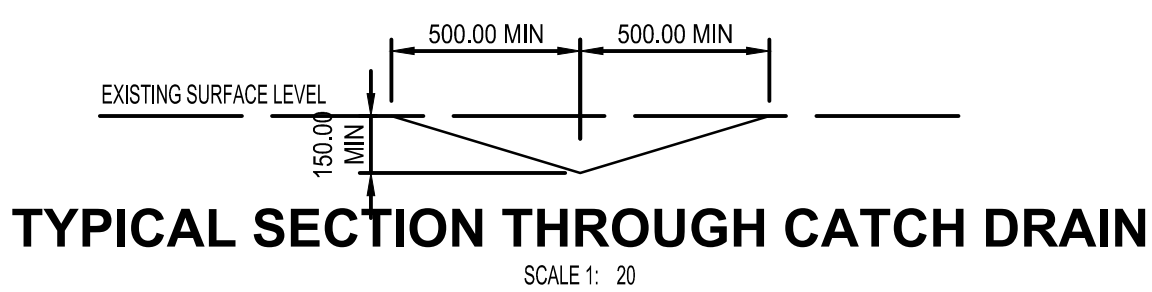
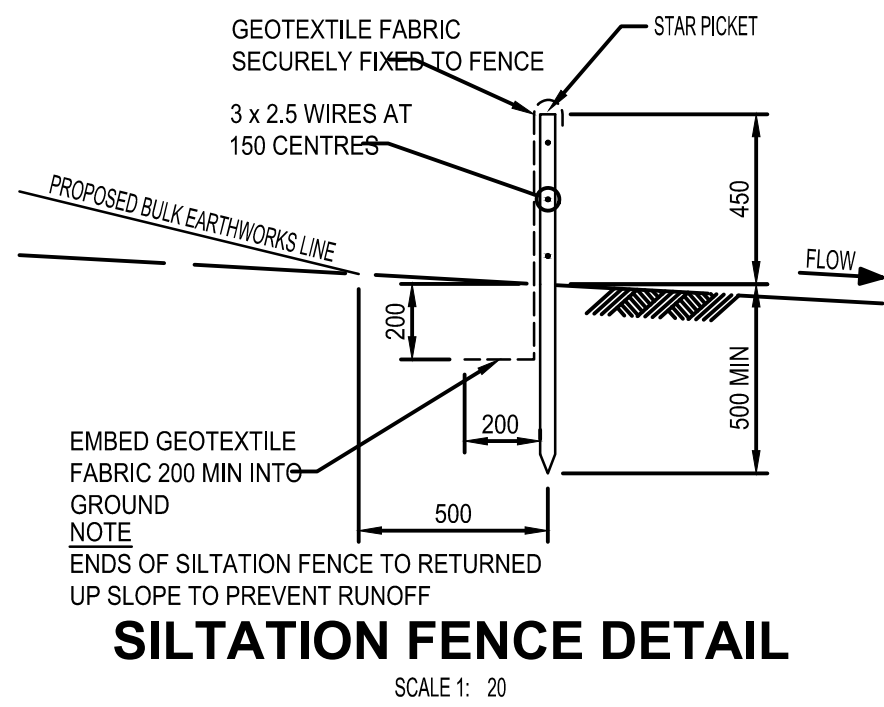
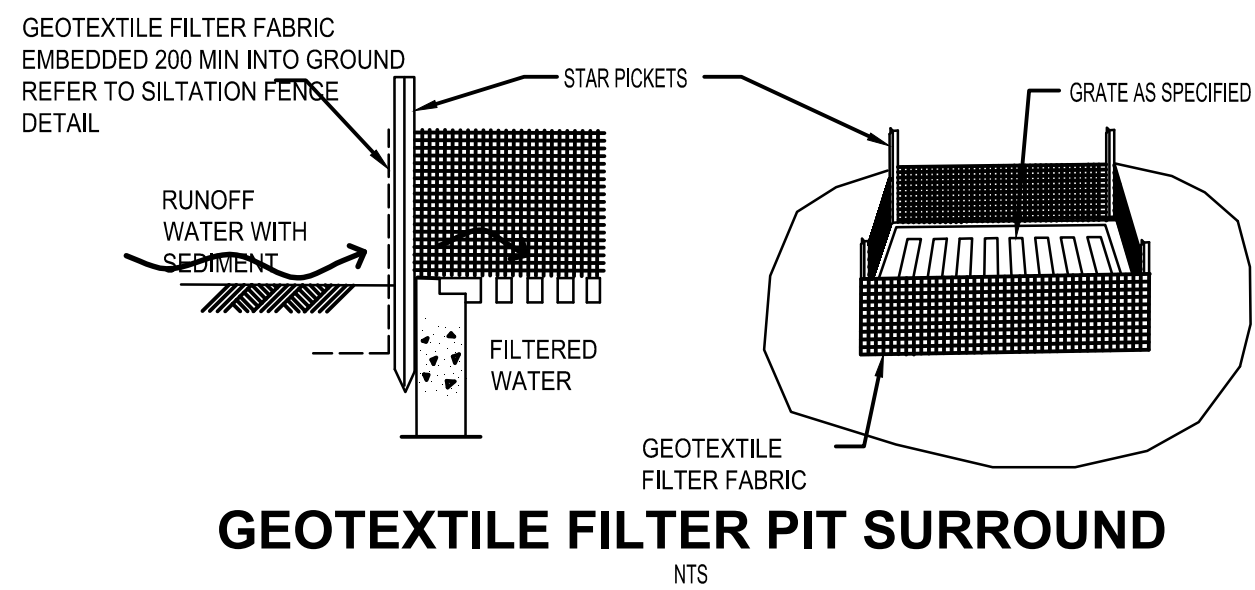
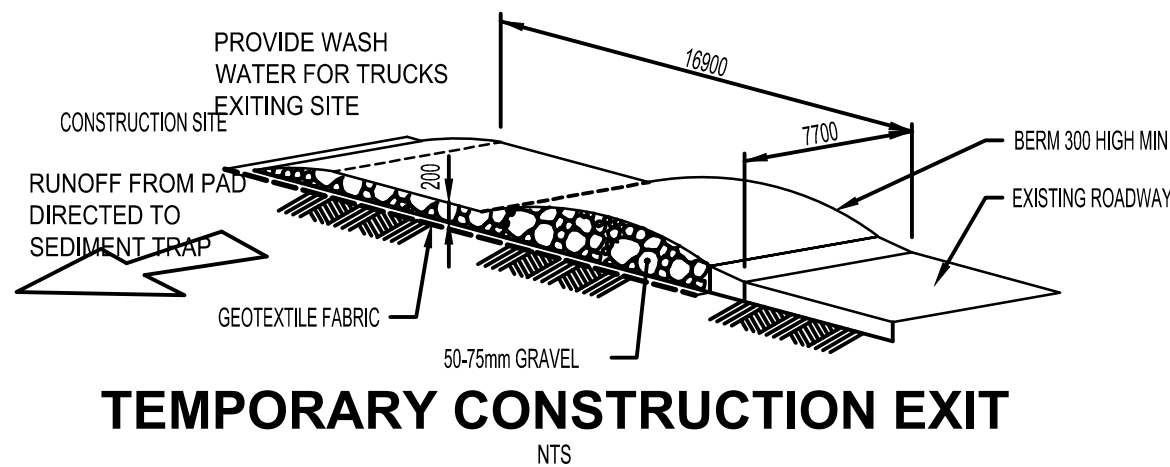
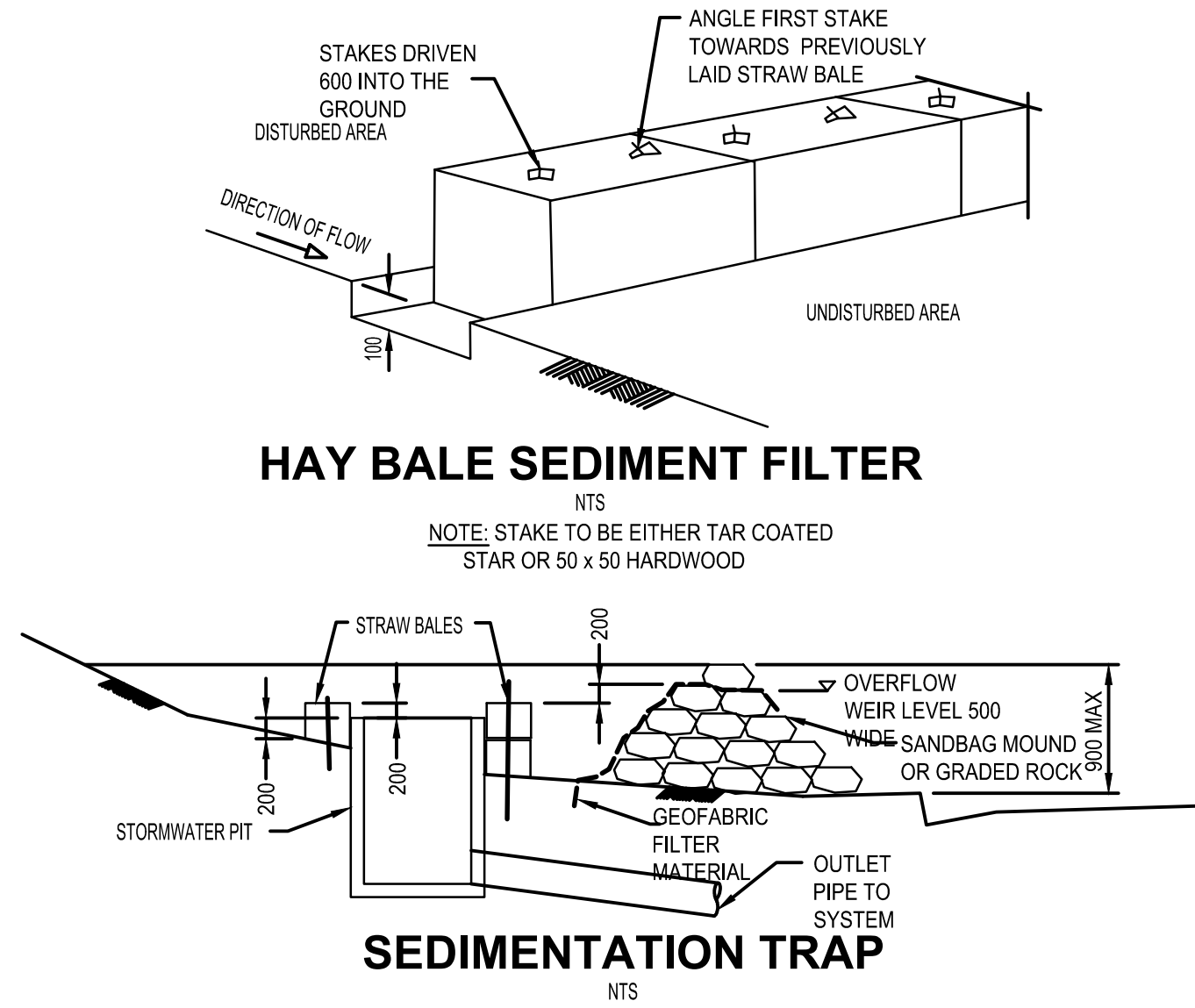
1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:-
 - LOCAL AUTHORITY REQUIREMENTS,
 - EPA POLLUTION CONTROL MANUAL FOR URBAN STORMWATER,
 - LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION ("BLUE BOOK").
1. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY BE REQUIRED TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADAPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
2. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
3. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
4. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
5. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
6. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.
7. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
8. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT.
9. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
10. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
11. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.

SEQUENCE OF WORKS

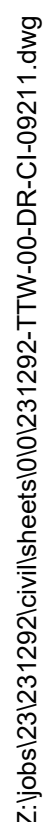
1. PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED.
 - 1.1. CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF SITES.
 - 1.2. CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS.
 - 1.3. CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEM.
 - 1.4. CONSTRUCT SEDIMENTATION TRAPS/BASIN INCLUDING OUTLET CONTROL AND OVERFLOW.
 - 1.5. CONSTRUCT TURF LINED SWALES.
 - 1.6. PROVIDE SANDBAG SEDIMENT TRAPS UPSTREAM OF EXISTING PITS.
2. CONSTRUCT GEOTEXTILE FILTER PIT SURROUND AROUND ALL PROPOSED PITS AS THEY ARE CONSTRUCTED.
3. ON COMPLETION OF PAVEMENT PROVIDE SAND BAG KERB INLET SEDIMENT TRAPS AROUND PITS.
4. PROVIDE AND MAINTAIN A STRIP OF TURF ON BOTH SIDES OF ALL ROADS AFTER THE CONSTRUCTION OF KERBS.

WATER QUALITY TESTING REQUIREMENTS

1. PRIOR TO DISCHARGE OF SITE STORMWATER, GROUNDWATER AND SEEPAGE WATER INTO COUNCIL'S STORMWATER SYSTEM, CONTRACTORS MUST UNDERTAKE WATER QUALITY TESTS IN CONJUNCTION WITH A SUITABLY QUALIFIED ENVIRONMENT CONSULTANT OUTLINING THE FOLLOWING:-
 - COMPLIANCE WITH THE CRITERIA OF THE AUSTRALIAN AND NEW ZEALAND GUIDELINES FOR FRESH AND MARINE WATER QUALITY (2000)
 - IF REQUIRED SUBJECT TO THE ENVIRONMENTAL CONSULTANTS ADVICE, PROVIDE REMEDIAL MEASURES TO IMPROVE THE QUALITY OF WATER THAT IS TO BE DISCHARGED INTO COUNCILS STORM WATER DRAINAGE SYSTEM THIS SHOULD INCLUDE COMMENTS FROM A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT CONFIRMING THE SUITABILITY OF THESE REMEDIAL MEASURES TO MANAGE THE WATER DISCHARGED FROM THE SITE INTO COUNCILS STORM WATER DRAINAGE SYSTEM. OUTLINING THE PROPOSED, ONGOING MONITORING, CONTINGENCY PLANS AND VALIDATION PROGRAM THAT WILL BE IN PLACE TO CONTINUALLY MONITOR THE QUALITY OF WATER DISCHARGED FROM THIS SITE. THIS SHOULD OUTLINE THE FREQUENCY OF WATER QUALITY TESTING THAT WILL BE UNDERTAKEN BY A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT.



										Client:										Engineer:  612 6285 1766 Level 5, 224 Bunda St, Canberra City, ACT 2601										Project: WAHROONGA ESTATE STAGE 3 RESIDENTIAL DEVELOPMENT										Drawing Title: ENVIRONMENTAL EROSION CONTROL NOTES AND LEGEND SHEET 1										Scale at A1 NTS										Drawn LW										Designed LW										Approved 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