

WATERVUE

643-651 HUNTER STREET NEWCASTLE

ISSUE FOR DA APPLICATION

FEB 2023



LOCALITY PLAN
NTS

CLIENT:



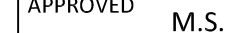
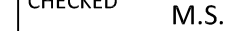
ARCHITECT:

**STEWART
ARCHITECTURE**

CONSULTANTS:



DRAWING SCHEDULE	
NUMBER	DRAWING TITLE
7330-01-000	COVER SHEET
7330-01-001	DRAWING SCHEDULE
7330-01-002	LEGEND ABBREVIATION AND GENERAL NOTES
7330-01-003	GROUND FLOOR STORMWATER PLAN
7330-01-004	STORMWATER DETAILS
7330-01-005	SITE CALCULATIONS
7330-01-006	SITE PERMEABILITY
7330-01-007	DETAILS
7330-01-020	WASTE MANAGEMENT PLAN
7330-01-021	WASTE MANAGEMENT PLAN
7330-01-022	WASTE MANAGEMENT PLAN
7330-01-030	GROUND FLOOR SWEPT PATH ANALYSIS
7330-01-031	LEVEL 1 SWEPT PATH ANALYSIS
7330-01-032	LEVEL 2 SWEPT PATH ANALYSIS
7330-01-033	LEVEL 3 SWEPT PATH ANALYSIS
7330-01-040	PRE-DEVELOPMENT PMF STORAGE DEPTHS
7330-01-041	POST-DEVELOPMENT PMF STORAGE DEPTHS
7330-01-045	FLOOD STORAGE SECTIONS SHEET 1
7330-01-046	FLOOD STORAGE SECTIONS SHEET 2
7330-01-047	FLOOD EVACUATION PLAN

No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT	CLIENT	PROJECT			DRAWING TITLE				
					STEWART ARCHITECTURE		 CANBERRA SYDNEY WOLLONGONG www.indesco.com.au	   	APPROVED M.S. DATE 28.01.2022			PROJECT WATERVUE 643-651 HUNTER STREET NEWCASTLE DRAWING TITLE DRAWING SCHEDULE		
				CHECKED M.S. DATE 28.01.2022										
				DESIGNED BY M.S.										
				DRAWN BY D.K.										
									CAD FILE H:\7330 643-651 Hunter Street Newcastle\A\coord\Current Drawings\Chf\7330-01-001 DRG SHED.dwg			PROJECT No. 7330-01		
2	RE-ISSUED FOR DA APPLICATION	M.S.	29.09.22	M.M.					SCALE	AS SHOWN	SHEET No.	DRAWING No. 001	AMDT 2	
1	ISSUE FOR DA APPLICATION	M.S.	27.06.22	D.K.										

LEGEND
EXISTING

	WATERMAIN, THRUST BLOCK, FIRE HYDRANT, STOP VALVE
	WATER TIE
	STORMWATER MAIN, SUMP, MANHOLE
	STORMWATER TIE
	SEWER MAIN, MAINTENANCE HOLE
	SEWER TIE
	GAS
	CONTOURS (SURVEY)
	CONTOURS (ACTMAPI)
	ELECTRICITY SERVICE LINE UNDERGROUND
	ELECTRICITY SERVICE LINE OVERHEAD
	ELECTRICITY STREETLIGHTING UNDERGROUND
	ELECTRICITY STREETLIGHTING OVERHEAD
	ELECTRICITY LOW VOLTAGE UNDERGROUND
	ELECTRICITY LOW VOLTAGE OVERHEAD
	ELECTRICITY HIGH VOLTAGE UNDERGROUND
	ELECTRICITY HIGH VOLTAGE OVERHEAD
	LIGHTPOLE / POWERPOLE
	NBN
	ICON CABLE (PIT)
	TELSTRA CABLE WITH PIT, SHARED COMMS PIT AND MARKER
	TELSTRA FIBRE OPTIC CABLE
	TRANSACT CABLE
	OPTUS CABLE
	TREE
	TREE TO BE REMOVED
	TREE TO BE PRUNED
	TREE PROTECTION FENCE
	STORMWATER TO BE ABANDONED
	STORMWATER TO BE REMOVED
	END CAP (TYPE 1)
	END CAP (TYPE 2)
	BOLLARD

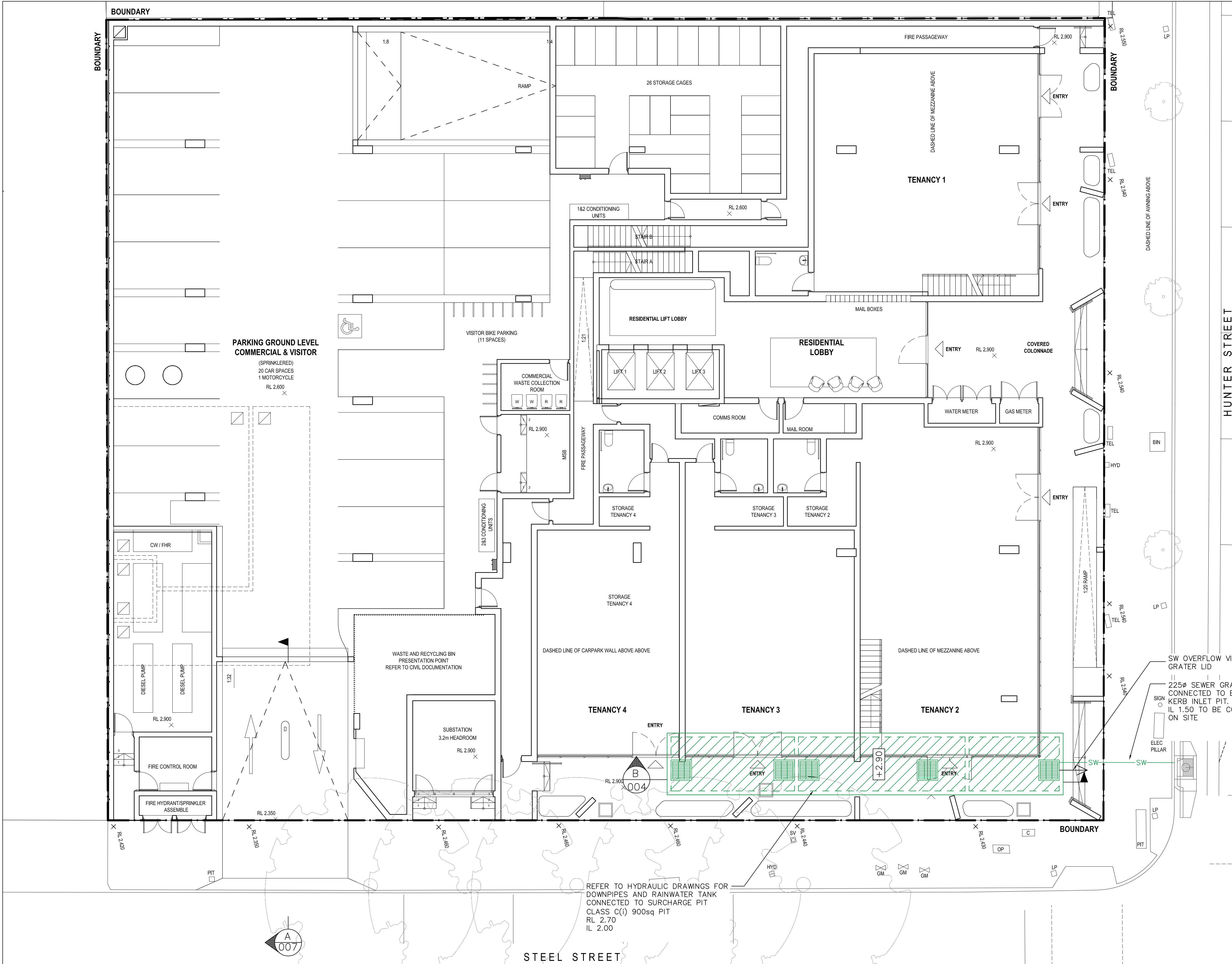
PROPOSED

	STORMWATER LINE/MANHOLE
	R-SUMP
	PROPOSED ISLAND MODIFICATION

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 'MUNICIPAL INFRASTRUCTURE STANDARDS (MIS) APRIL 2019 AND ICON'S WATER SUPPLY AND SEWERAGE STANDARDS (WSSS) JULY 2018.
- EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THE PRINCIPAL DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION AND IT IS THE CONTRACTORS RESPONSIBILITY TO ESTABLISH THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES.
- PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONFIRM THE POSITION AND LEVEL OF ALL EXISTING SERVICE CONNECTION POINTS AND NOTIFY THE SUPERINTENDENT IMMEDIATELY IF A DISCREPANCY IS FOUND.
- ALL SURVEY SET-OUT SHALL BE UNDERTAKEN BY A REGISTERED SURVEYOR.
- ALL EXISTING AND FINISHED SURFACE LEVELS ARE TO THE AUSTRALIAN HEIGHT DATUM (AHD).
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EVOENERGY CABLES. NO MECHANICAL EXCAVATION IS TO BE UNDERTAKEN OVER EVOENERGY CABLES. HAND EXCAVATE IN THESE AREAS ONLY.
- WHERE NEW WORK ABUTS EXISTING WORK THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- ALL EARTHWORKS, BATTERS AND TRENCH LINES TO BE TOPSOILED WITH 100mm SITE TOPSOIL, TEMPORARY GRASSED & BITUMEN STRAW MULCHED.
- EXISTING REFERENCE MARKS SHOWN HAVE NOT BEEN FIELD CHECKED. CO-ORDINATES AND REDUCED LEVELS TO BE CONFIRMED WITH EPD FOR ACCURACY.
- THE CONTRACTOR SHALL NOT DISTURB ANY EXISTING BENCH MARKS WITHOUT EPD APPROVAL IN WRITING.
- CONNECTION OF NEW STORMWATER PIPES TO EXISTING PIPES AND MANHOLES IS TO BE UNDERTAKEN BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY SUPPORT OF EXISTING SERVICES DURING EXCAVATION OF TRENCHES TO THE SATISFACTION OF THE SERVICE OWNER/AUTHORITY.
- WHERE SERVICES CROSS EXISTING ROADS THE PAVEMENT IS TO BE SAWCUT 300mm WIDER THAN THE REQUIRED TRENCH EXCAVATION AND THE FINISHED SURFACE REINSTATED WITH ASPHALTIC CONCRETE.
- ALL SEWER AND STORMWATER MAINTENANCE HOLES ARE TO BE 1050DIA PRECAST OR IN SITU CONSTRUCTION WITH LIGHT DUTY COVERS (CLASS B) IN OPEN SPACES AND HEAVY DUTY COVERS (CLASS D) IN ROADWAYS UNLESS OTHERWISE SHOWN. SEWER MAINTENANCE HOLES WITH VERTICAL DROPS ARE CAST INSITU.
- ALL STORMWATER MAINS UP TO 750DIA SHALL BE STEEL OR FIBRE REINFORCED CONCRETE PIPE RRJ WITH 100 YEAR DESIGN LIFE. PIPES GREATER THAN 750DIA SHALL BE RCP.
- STORMWATER SERVICE TIES ARE TO BE RRJ SLOPE JUNCTIONS, UNLESS CONNECTED INTO A SWMH OR SUMP. STORMWATER TIES TO BE BRANCH END AND SEALED.
- DESIGN LENGTHS FOR STORMWATER & SEWER PIPELINES ARE MEASURED FROM THE CENTRE OF THE MAINTENANCE HOLES AND/OR SUMP. AS CONSTRUCTED LENGTHS ARE MEASURED FROM THE INSIDE FACE OF THE MAINTENANCE HOLE/SUMP.
- INVERT LEVELS ARE TO THE CENTRE OF MAINTENANCE HOLES & SUMPS.
- NOMINATED MAINTENANCE HOLE/SUMP LOCATIONS REFER TO CENTRE OF MAINTENANCE HOLE/SUMP.
- COVER LEVELS GIVEN ARE TO BE USED AS A GUIDE ONLY. ACTUAL LEVELS TO BE DETERMINED ON SITE.
- ALL TREE PROTECTION FENCING TO BE CHAINWIRE FENCE TYPE, 1.8m HIGH AND ERECTED 2.0m-5.0m OUTSIDE THE TREE CANOPY AS AGREED WITH THE SUPERINTENDENT, UNLESS NOTED OTHERWISE.
- CONTRACTOR TO HAVE ZINFRA IDENTIFY/MARK ALL GAS MAINS WITHIN THE VICINITY OF WORKS.
- CONTRACTOR TO RESTORE VERGE TO EXISTING CONDITION AFTER CONSTRUCTING STORMWATER STRUCTURES/PIPES.

No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT	CLIENT	PROJECT			DRAWING TITLE						
					STEWART ARCHITECTURE	BLOCC	INDESCO CANBERRA SYDNEY WOLLONGONG www.indesco.com.au	CONSULT AUSTRALIA DISAS DISAS DISAS	APPROVED	M.S	DATE	28.01.2022	WATERVUE 643-651 HUNTER STREET NEWCASTLE	LEGEND ABBREVIATION AND GEN NOTES		
				CHECKED					M.S	DATE	28.01.2022					
				DESIGNED BY					M.S							
				DRAWN BY					D.K							
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1	ISSUE FOR DA APPLICATION	M.S	27.06.22	D.K.					SCALE	AS SHOWN	SHEET No.	7330-01		002	1	



LEGEND

EXISTING SERVICES

—+—

SITE BOUNDARY

—SW—

EXISTING STORMWATER

—+—SW—

EXISTING STORMWATER TO BE REMOVED

558.0

MAJOR CONTOURS

558.2

MINOR CONTOURS

○

TREE

—exSEW—

EXISTING SEWER LINE

PROPOSED

○

TREE TO BE REMOVED

—//—

TREE PROTECTION FENCE

←CD→

CATCHMENT DRAIN

—SW—

STORMWATER (SUMP, GRATED PIT)

—AGG—AGG—

AGI PIPE

STORMWATER STRIP DRAIN

HDG

HEAVY DUTY GRADE

LDG

LIGHT DUTY GRADE

ODP

DOWN PIPE

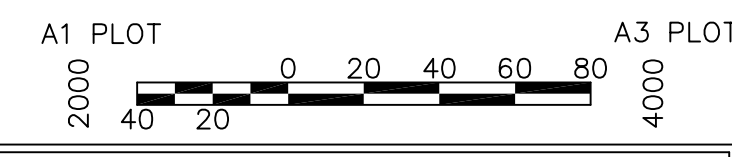
GROUND FLOOR STORMWATER PLAN NOTES:

- ALL PIPES SHOWN MIN. 100Ø WITH 1% FALL UNLESS OTHERWISE SPECIFIED
- GRADE ALL PREVIOUS AREAS AWAY FROM BUILDINGS.
- PROVIDE OVERFLOW PATHS THRU LANDSCAPING BEDS AS REQUIRED OR AS DIRECTED BY ENGINEER ON SITE.
- GEOFABRIC MATERIAL TO BE FITTED TO ALL OUTLET PIPES FOR ALL PITS. THIS IS REQUIRED TO STOP SEDIMENT FROM EXISTING THE PROPERTY.

CLASS OF GRATE AS3996.2006		
CLASS	DESIGN LOAD	TYPICAL USER
CLASS A	10kN	PEDESTRIAN
CLASS B	80kN	LIGHT VEHICLES
CLASS C(i)	150kN	LIGHT TRUCK
CLASS C(ii)	150kN	SLOW TRUCK
CLASS D	210kN	HIGHWAY VEHICLES

MINIMUM 26K LT RAINWATER TANK REQUIRED ON-SITE RETENTION DESIGNED TO REDUCE THE DISCHARGE OF STORM WATER AND IMPACT TO THE PUBLIC DRAINAGE SYSTEM.

STORMWATER OSD/RETENTION SYSTEM
RWT – 2.75 W X 1.50 D X 6.3 L = 26m³
RETENTION VOLUME: 11.8kL FOR IRRIGATION
1.40kL FOR COMMERCIAL USE (20 DAY DRAW DOWN)
8.7kL FOR RESIDENTIAL (LVL 4 ONLY)
RTW CAPACITY DESIGNED TO ACCOMMODATE 4 DAY PERIOD TO FILL TANK
OSD – 2.75 W X 1.2 D X 8.5 L = 28m³
TOTAL ONSITE RETENTION/DETENTION SYSTEM = 54m³
100% IMPERVIOUS
VOLUME REQUIREMENT OF 13mm
STORAGE REQUIRED = 54m³
TWL = RL 2.40
INVERT = 1.2m AHD



No.

AMENDMENT

APPROVED

DATE

AMENDED BY

ARCHITECT

3

UPDATED OSD

M.S.

24.02.23

M.M.

2

RE-ISSUED FOR DA APPLICATION

M.S.

28.09.22

M.M.

1

ISSUE FOR DA APPLICATION

M.S.

27.06.22

D.K.

STEWART
ARCHITECTURE

CLIENT

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OC

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APPROVED

M.S.

DATE

CHECKED

M.S.

DATE

DESIGNED BY

D.K.

DRAWN BY

D.K.

CAD FILE

H:\7330-643-651 Hunter Street Newcastle\A\cad\Current Drawing\643-651-003 GROUND FLOOR STORMWATER.dwg

SCALE

AS SHOWN

SHEET No.

PROJECT

WATERVUE

643-651 HUNTER STREET

NEWCASTLE

DRAWING TITLE

GROUND FLOOR

STORMWATER PLAN

PROJECT No.

7330-01

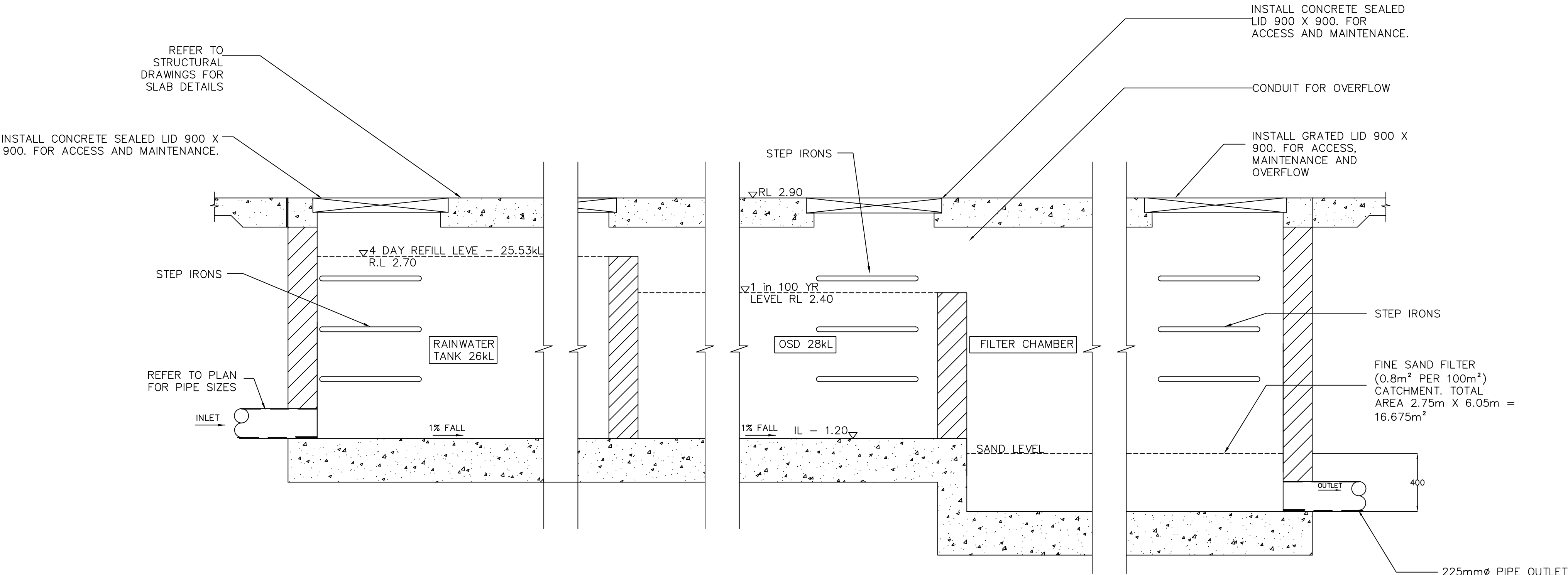
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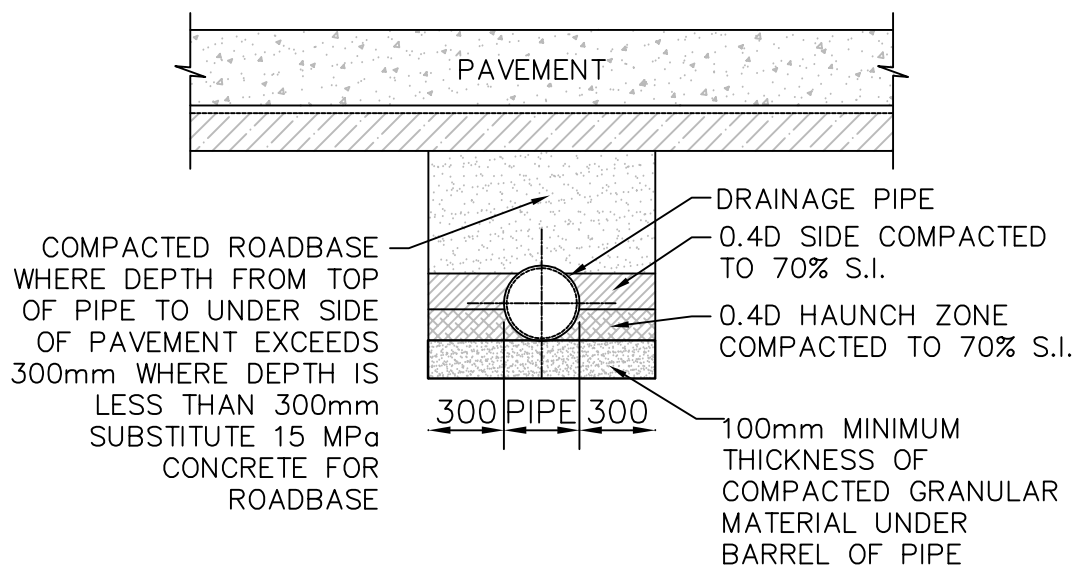
AMDT

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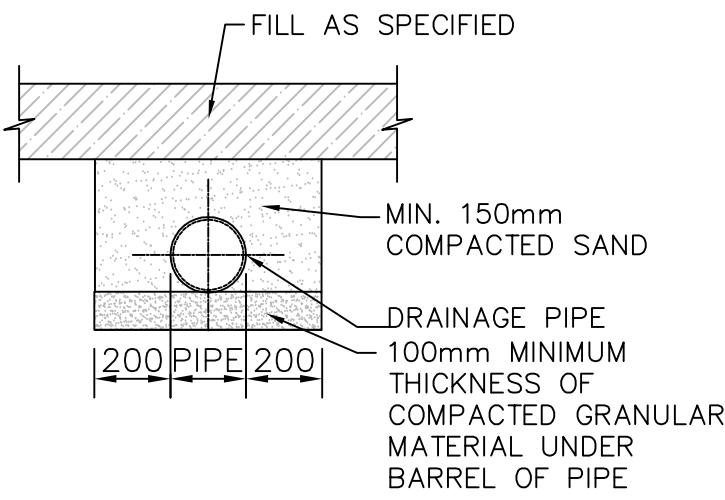
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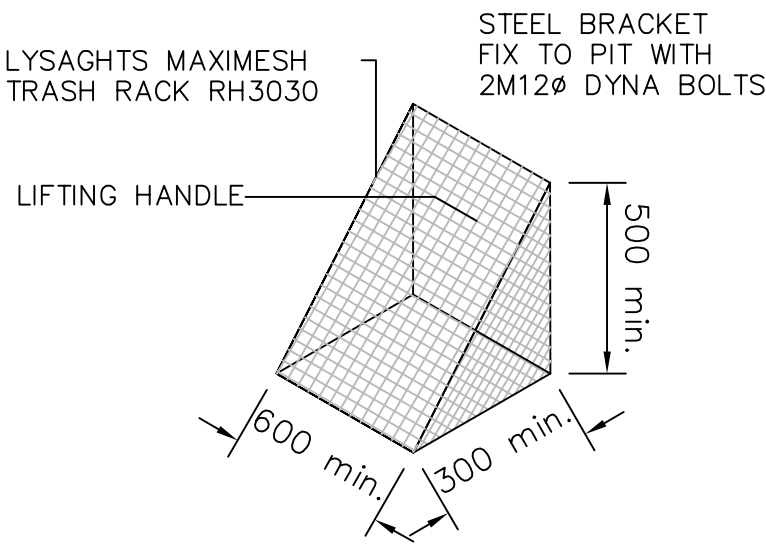
B
003
TYPICAL SECTION THROUGH STORMWATER RETENTION TANK
(NOT TO SCALE)



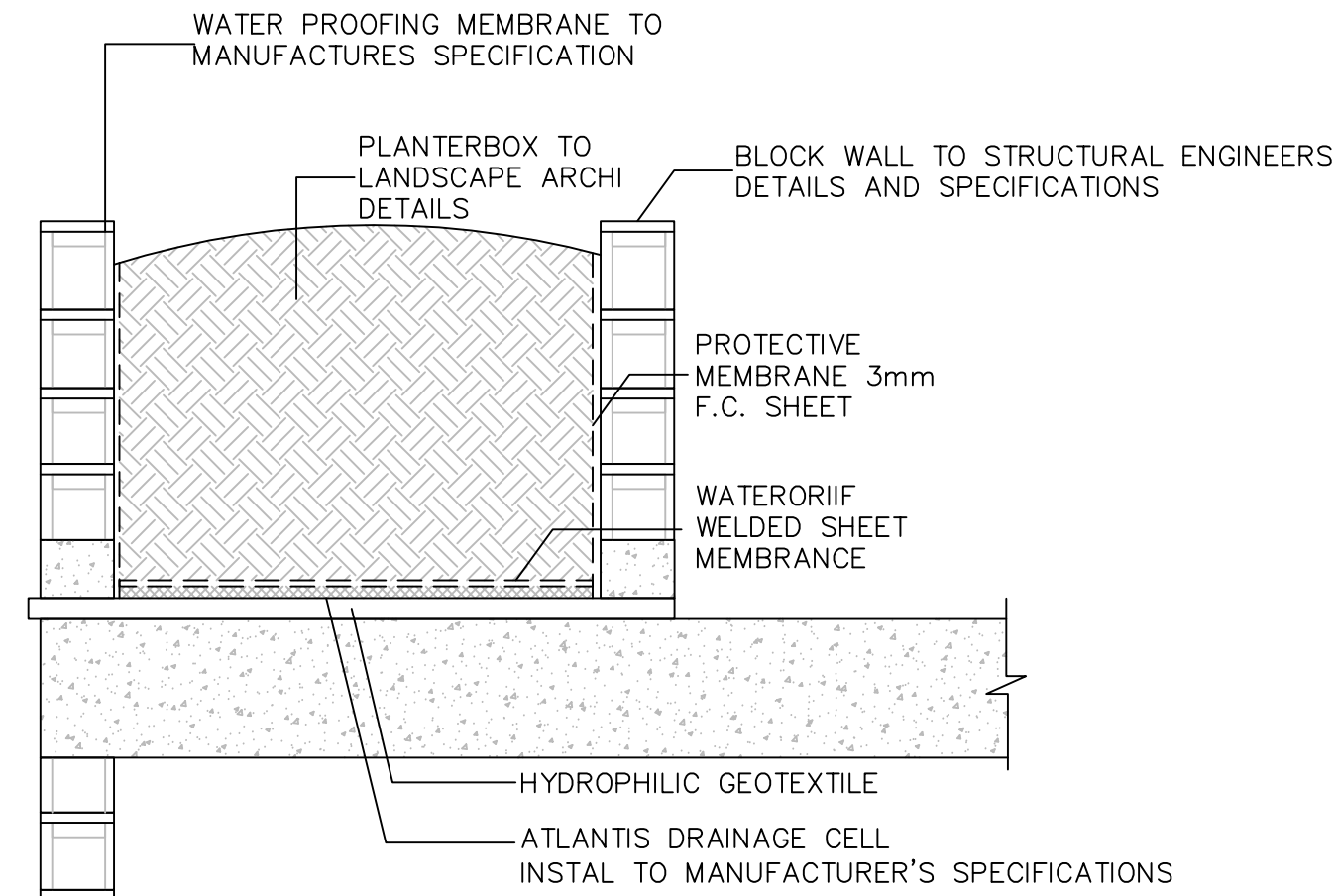
SECTION THROUGH STORMWATER DRAIN UNDER PAVEMENT
(NOT TO SCALE)



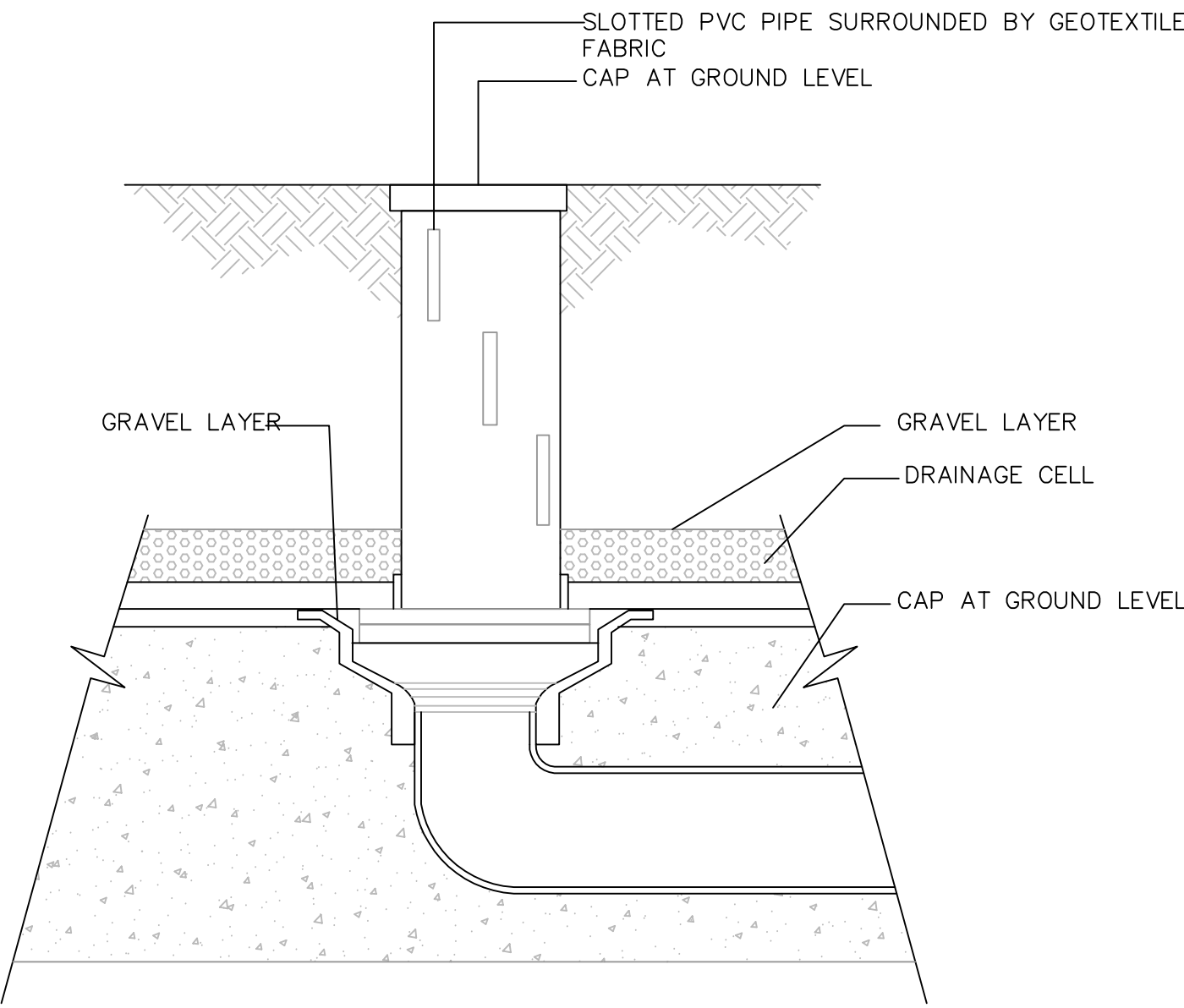
SECTION THROUGH STORMWATER DRAIN UNDER GROUND
(NOT TO SCALE)



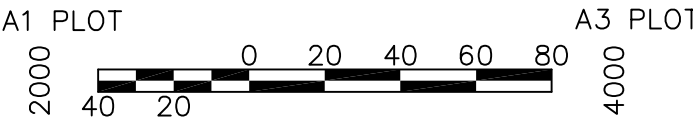
MESH SCREEN DETAIL
(NOT TO SCALE)
GALVANISED LYSAGHT RH3030MAXI MESH SCREEN IN GALVANISED STEEL FRAME WITH LIFTING HANDLES



TYPICAL RAISED PLANTER BOX
(NOT TO SCALE)



100Ø PLANTER OUTLET
(NOT TO SCALE)



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT
1	ISSUE FOR DA APPLICATION	M.S	27.09.22	M.M	

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ARCHITECTURE**

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CLIENT

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CONSULT AUSTRALIA
dics OHS&S
dics 80 8001
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dics 80 8001

APPROVED	M.S	DATE
CHECKED	M.S	DATE
DESIGNED BY	D.K	
DRAWN BY	D.K	
CAD FILE	H:\7330 643-651 Hunter Street Newcastle\Acad\Current Drawing\DW7330-01-004 DETAILS.dwg	
SCALE	AS SHOWN	SHEET No.

PROJECT
WATERVUE
643-651 HUNTER STREET
NEWCASTLE

DRAWING TITLE		
STORMWATER DETAILS		
PROJECT No. 7330-01	DRAWING No. 004	AMDT 1



AREA = 2078m²
IMPERVIOUS AREA = 100%
PERVIOUS AREA = 0%

AREA = 2078m²
IMPERVIOUS AREA = 100%
PERVIOUS AREA = 0%
ONSITE RETENTION = 56kL

RESIDENTIAL		
APARTMENT	1-2 BED	3 BED
REUSE	TOILET + LAUNDRY (25%)	TOILET + LAUNDRY (25%)
VOLUME	4 APARTMENTS	2 APARTMENTS
4 DAY RE-USE VOL.*	5.50KL	3.20KL

IRRIGATION – TOTAL AREA x 10L / DURATION	
TOTAL GARDEN AREA	294m ²
TOTAL VOLUME***	(294 x 10)/1 = 2940L
4 TIMES A WEEK	11.8kL

* +10% OF 4 DAY RE-USE TO ALLOW FOR PEAK DEMAND DURING TOP UP
 ** REFILL = (MEAN ANNUAL RAINFALL/365) x TOTAL SITE AREA x 4
 *** DURATION ASSUMED TO BE ONE HOUR

No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT	CLIENT	ARCHITECT	PROJECT	DRAWING TITLE
3	UPDATED CALCULATIONS	M.S	24.02.23	M.M.					
2	RE-ISSUE FOR DA	M.S	28.09.22	M.M.					
1	ISSUE FOR DA APPLICATION	M.S	27.06.22	D.K.					

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PROJECT

WATERVUE

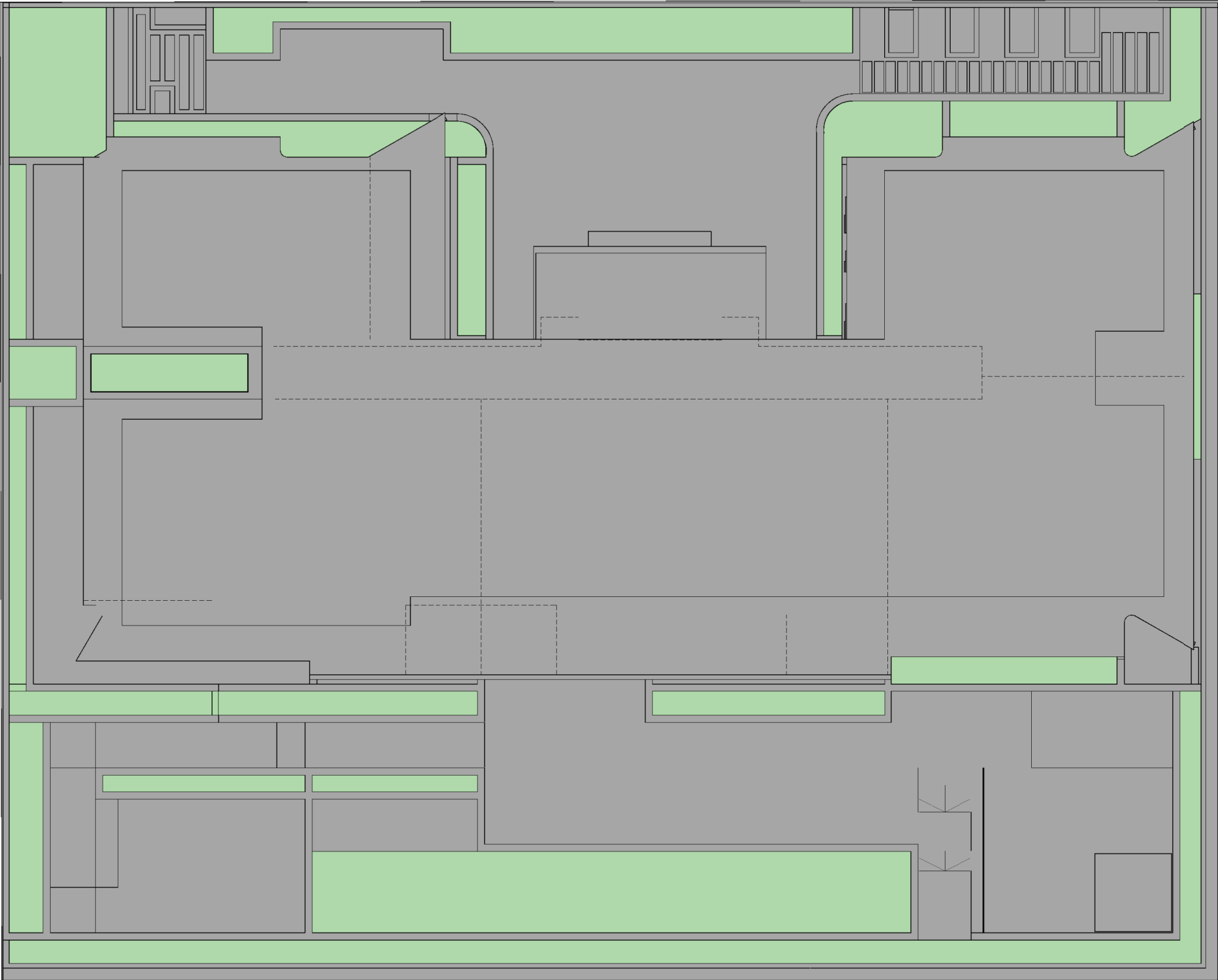
643-651 HUNTER STREET

NEWCASTLE

DRAWING TITLE

SITE CALCULATIONS

PROJECT No.	DRAWING No.	AMDT
7330-01	005	2



SITE				
643-651 HUNTER STREET, NEWCASTLE				
SITE	AREA (m²)	AREA (%)	mm/m	STORAGE REQ (m³)
TOTAL	2078.25	100	N/A	48
GREEN SPACE	371.1	17.86	12mm	5
IMPERVIOUS	1707.15	82.14	25mm	43

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**STEWART
ARCHITECTURE**

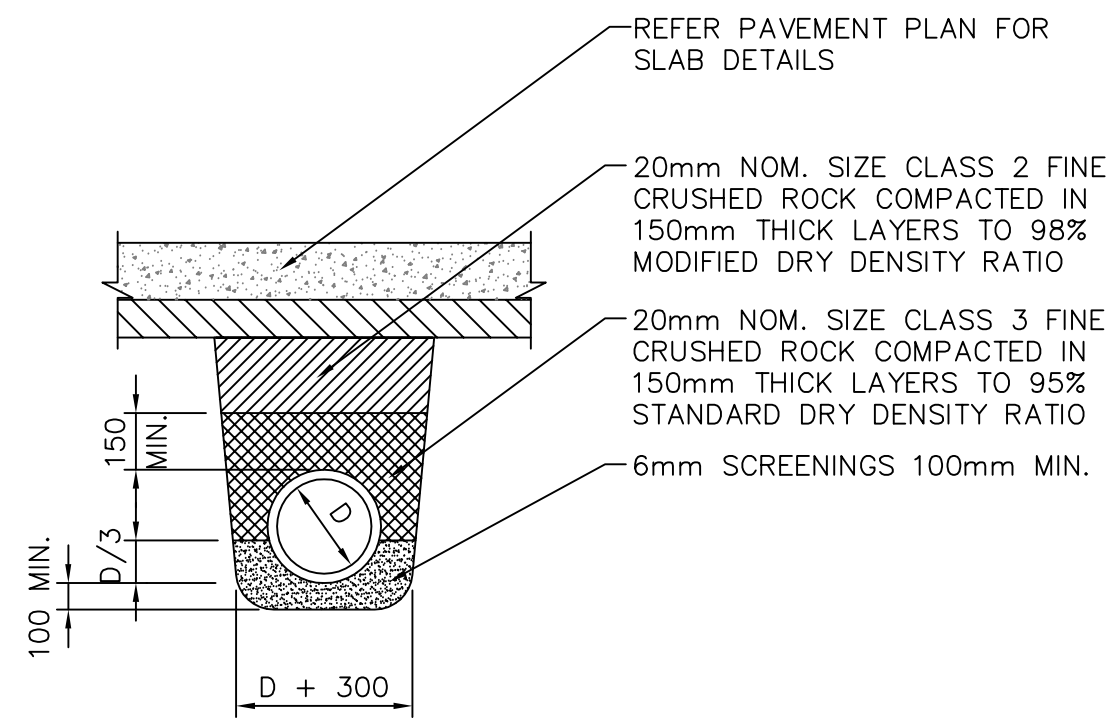


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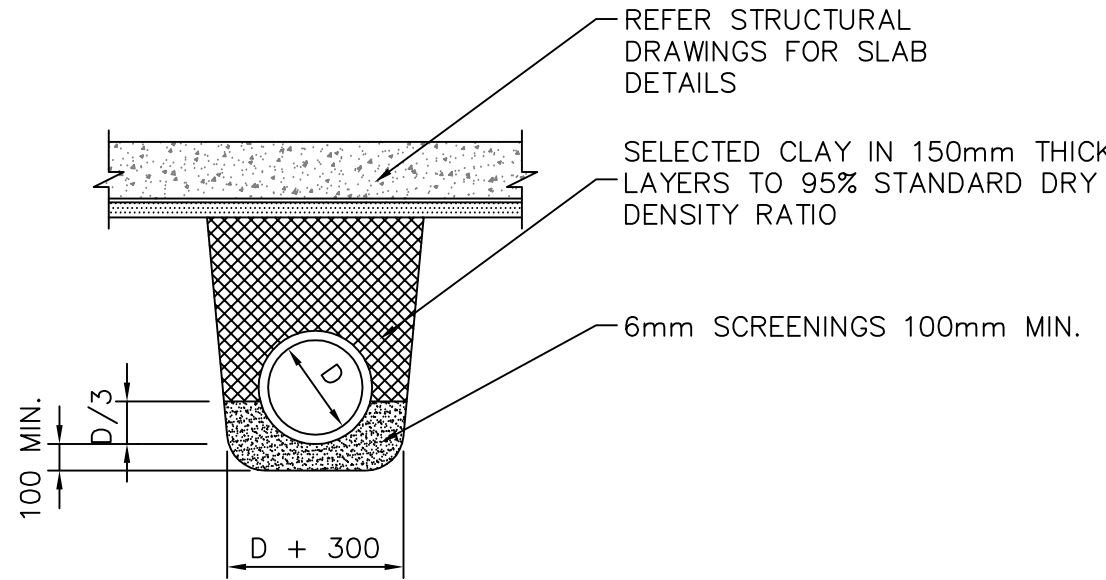


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DRAWN BY	M.M.		
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SCALE	1:100	SHEET No.	

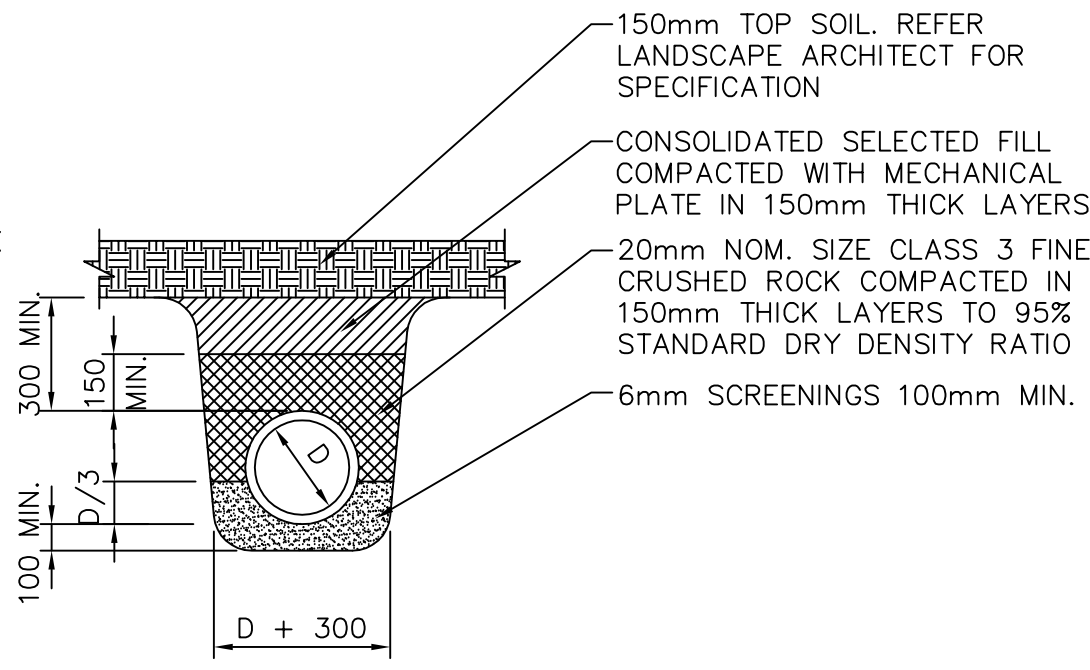
PROJECT		DRAWING TITLE		
WATERVUE 643-651 HUNTER STREET NEWCASTLE		SITE PERMEABILITY CALCULATIONS		
		PROJECT No. 7330-01	DRAWING No. 006	AMDT 1



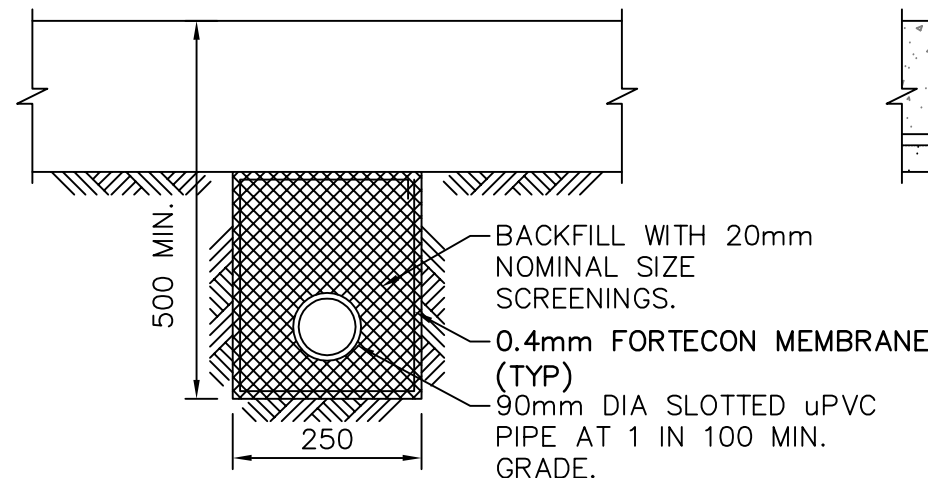
PIPE BEDDING –
UNDER CONCRETE
PAVEMENTS
NOT TO SCALE



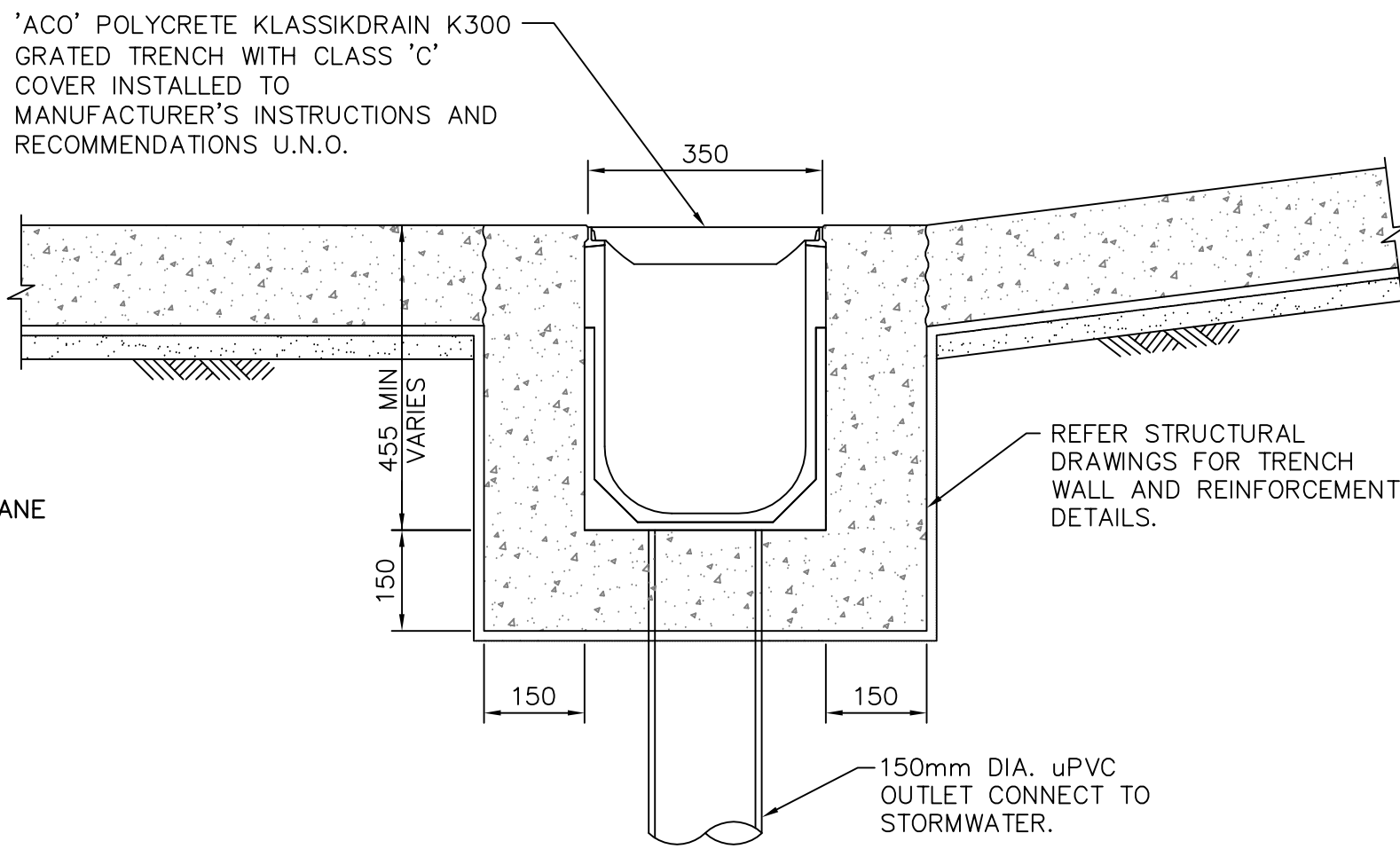
PIPE BEDDING –
UNDER FLOOR SLAB
NOT TO SCALE



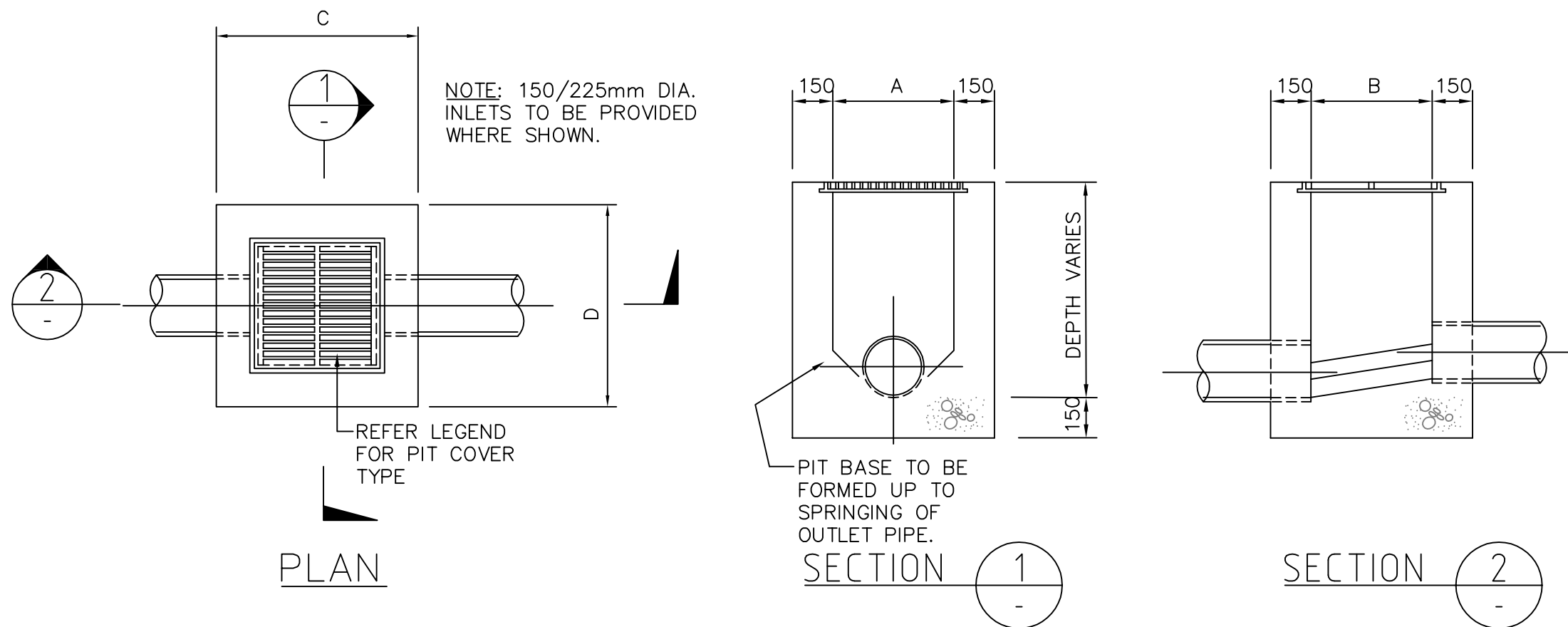
PIPE BEDDING –
IN LANDSCAPING
NOT TO SCALE



AGRICULTURAL DRAIN (AG)
DETAIL
NOT TO SCALE

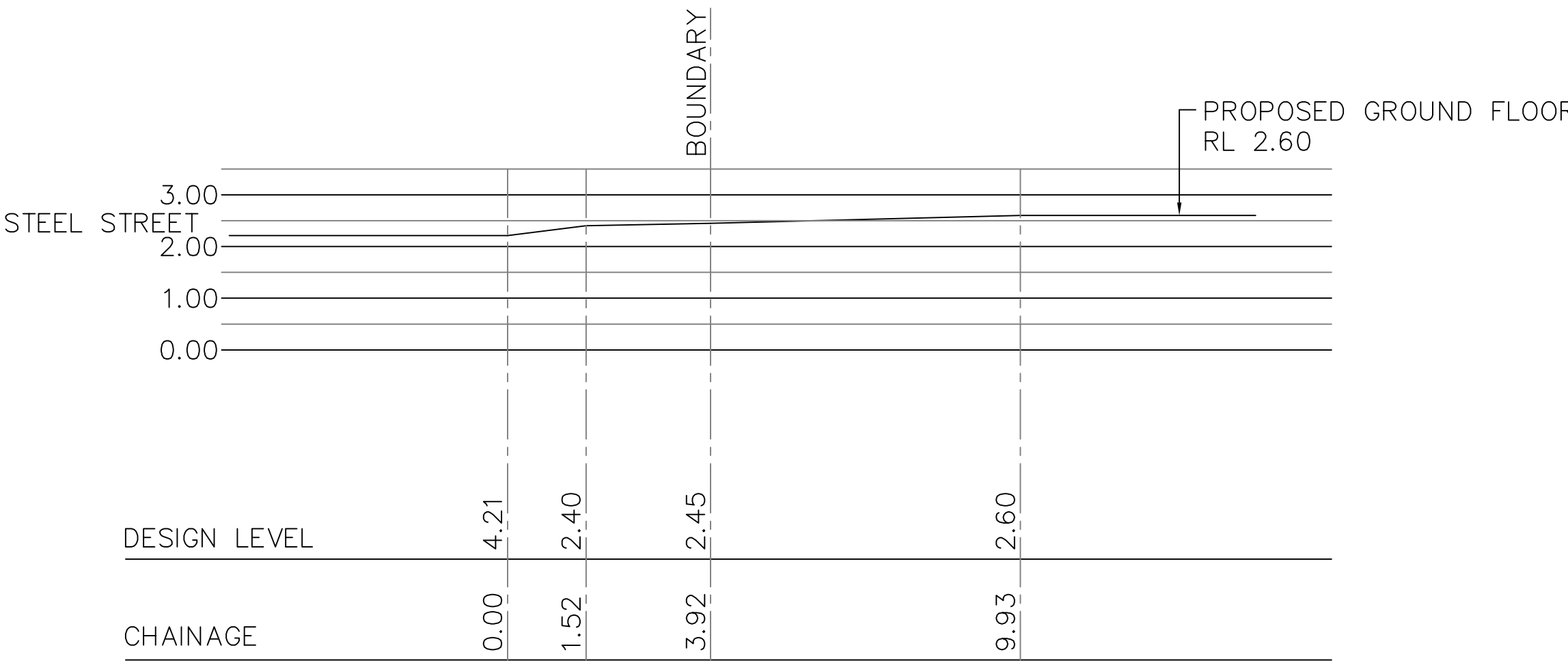


GRATED TRENCH
DETAIL
GRATE HEAVY-DUTY – CLASS 'C'
UNLESS NOTED OTHERWISE
NOT TO SCALE



GRATED AND JUNCTION PIT DETAIL
NOT TO SCALE

- NOTES:
- ALL PITS IN VEHICLE PAVEMENT AREAS SHALL BE CLASS 'C' GATIC CAST IRON GRATE OR COVER OR EQUAL APPROVED TYPE UNLESS NOTED OTHERWISE.
 - ALL GRATED PITS IN FOOTPATH AND PEDESTRIAN PAVEMENTS SHALL BE APPROVED TYPE HEEL GUARD DDA COMPLIANT GRATES.
 - INSTALL HOT-DIPPED GALVANISED STEEL STEP IRONS AT 300 mm INTERVAL IN ALL PITS OF 900x900 IN EXCESS OF 1.0 METRE DEPTH.
 - ALL MILD STEEL GRATES AND FRAMES SHALL BE HOT-DIPPED GALVANISED IN ACCORDANCE WITH AS1650-1981.
 - TOP OF PITS SHALL MATCH SLOPE AND LEVEL OF ADJOINING FINISHED SURFACE LEVELS.
 - CONCRETE $F'c = 40 \text{ MPa}$ SULPHATE RESISTANT CEMENT QUARRY MIXED WITH XYPEX, OR APPROVED TYPE PRECAST PITS WITH 2% CEMENT STABILISED SAND BACK FILLING.



DRIVEWAY LONG SECTION
SCALE 1:100 @ A1

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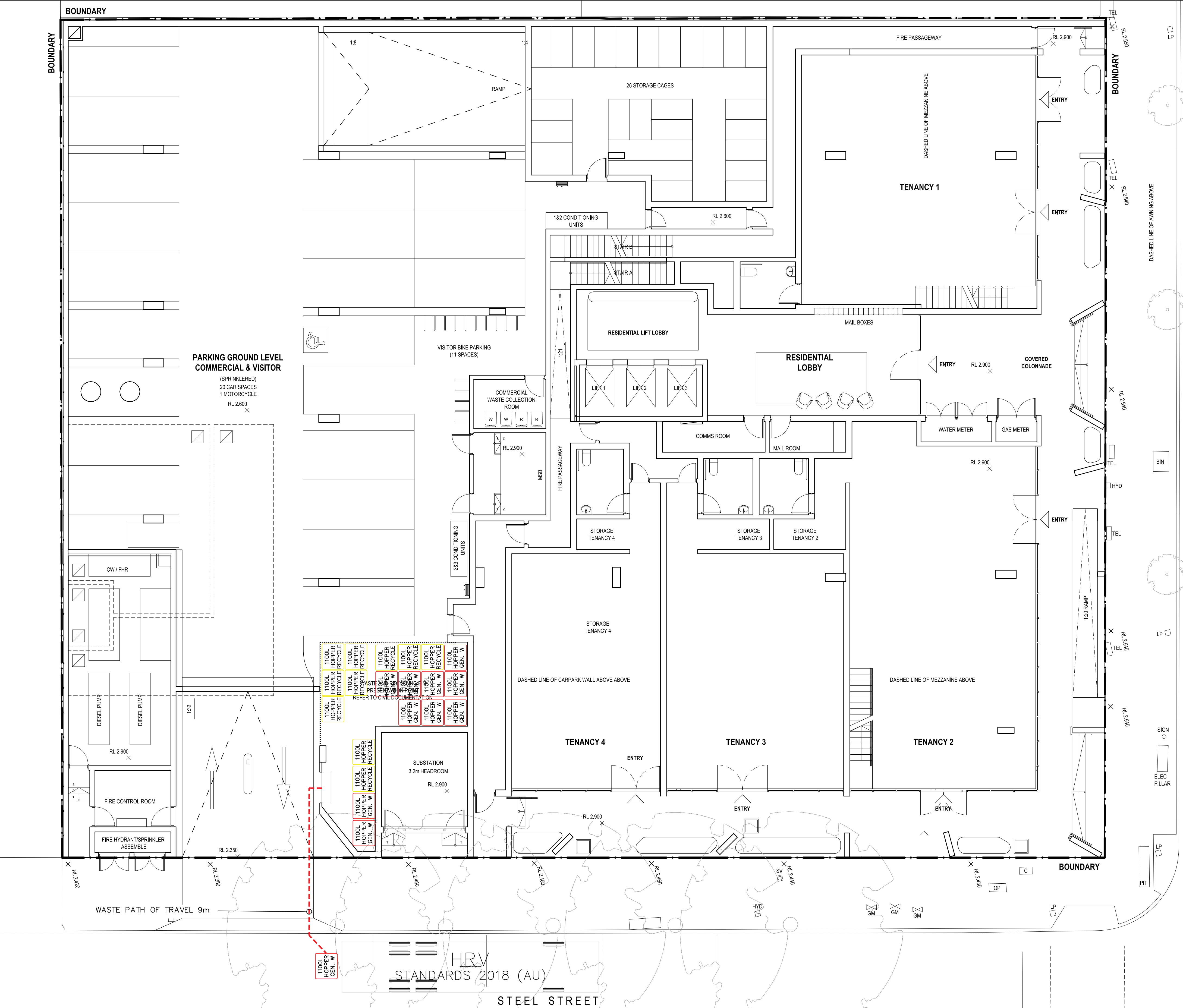
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APPROVED	M.S	DATE	17.02.2022
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SCALE	AS SHOWN	SHEET No.	

PROJECT	WATERVUE 643-651 HUNTER STREET NEWCASTLE
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DRAWING TITLE	DETAILS
PROJECT No.	7330-01
DRAWING No.	007
AMDT	1



WASTE MANAGEMENT PLAN

LEGEND



- DENOTES GENERAL WASTE HOPPER
- DENOTES RECYCLING HOPPER
- DENOTES FOGO WASTE HOPPER
- DENOTES PATH OF TRAVEL

GENERAL WASTE PER WEEK

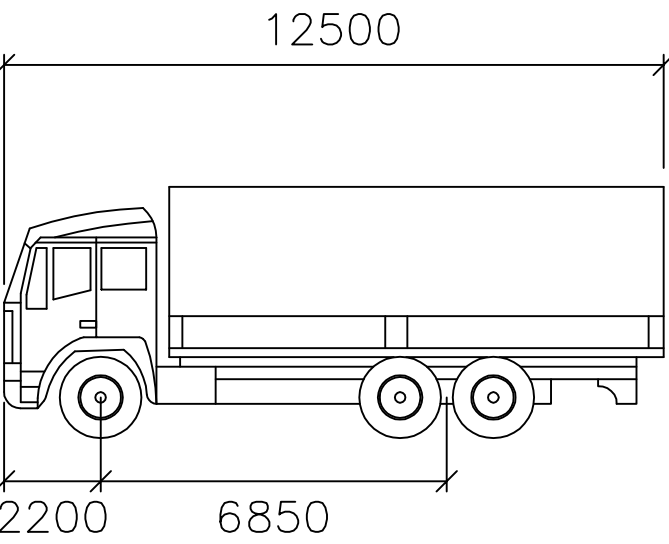
RESIDENTIAL			
APARTMENT SIZE	Est. Lts/WEEK	No. OF UNITS	TOTAL SITE
1 BED	80	29	2320
2 BED	100	45	4500
3+ BED	120	32	3840
TOTAL		106	10660
NUMBER 660lts			0
NUMBER 1100lts			10

CO-MINGLED RECYCLING PER WEEK

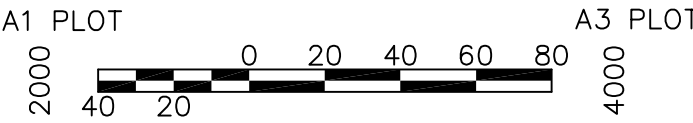
RESIDENTIAL			
APARTMENT SIZE	Est. Lts/WEEK	No. OF UNITS	TOTAL SITE
1 BED	80	29	2320
2 BED	100	45	4500
3+ BED	120	32	3840
TOTAL		106	10660
NUMBER 660lts			0
NUMBER 1100lts			10

COMMERCIAL WASTE REQUIREMENTS

OFFICE						
UNIT	FLOOR AREA (m ²)	WASTE/UNIT(m ²)/DAY (LITRES) 10L/100m ² /DAY	TOTAL WASTE (LITRES) MON-FRI	BIN SIZE	NO. OF COLLECTIONS PER WEEK	WEEKLY CAPACITY (LITRES)
TENANCY 1	182.7	18.27	91.35	2 x 240	1	480L
TENANCY 2	264.2	26.42	132.1			
TENANCY 3	149.1	14.91	74.55			
TENANCY 4	125	12.5	62.5			
TOTAL	721	72.1	360.5			



HRV
mm
Width : 2500
Track : 2500
Lock to Lock Time : 6.0
Steering Angle : 36.7



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT
2	RE-ISSUED FOR DA APPLICATION	M.S	27.09.22	M.M	
1	ISSUE FOR DA APPLICATION	M.S	27.06.22	D.K	

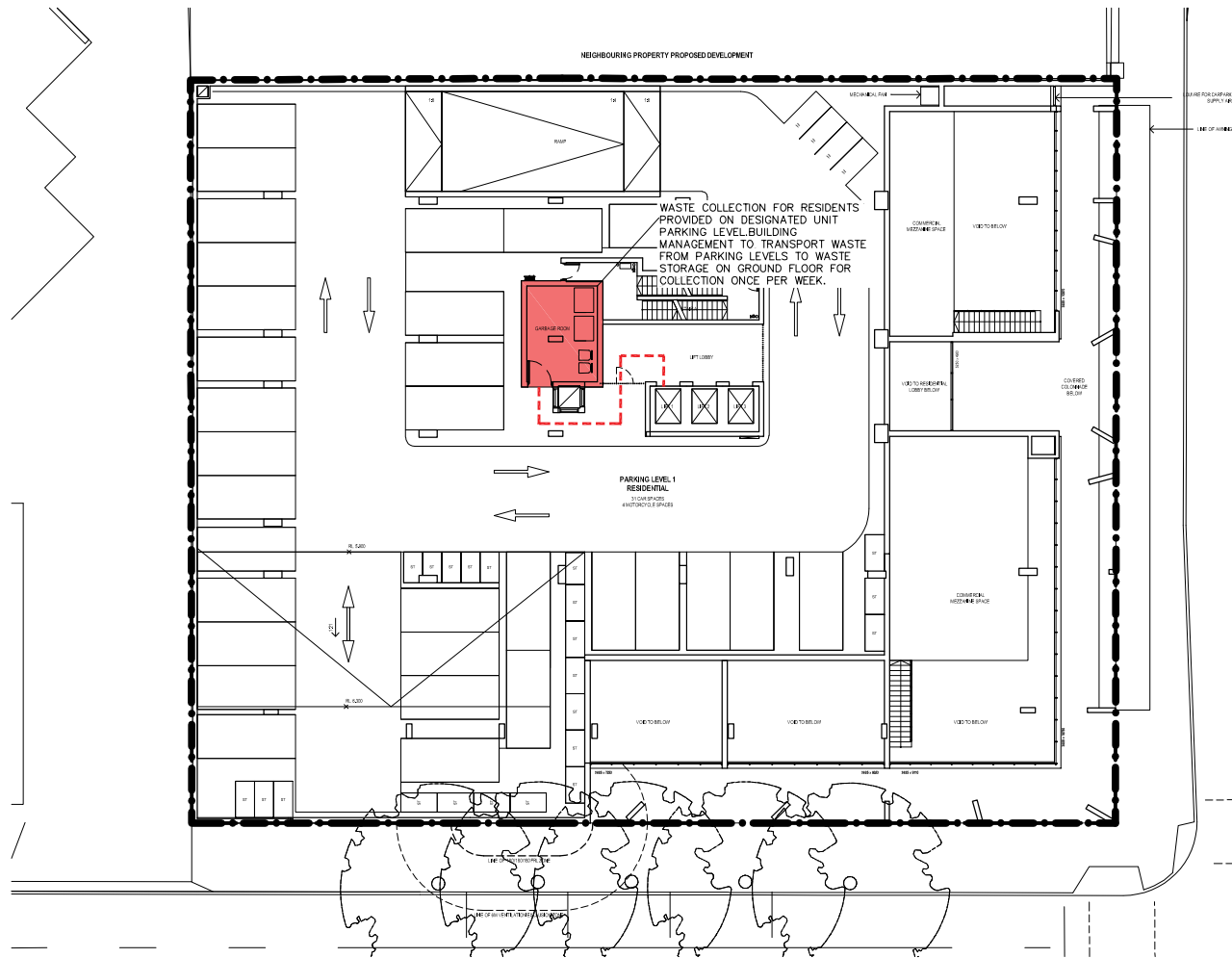
STEWART
ARCHITECTURE



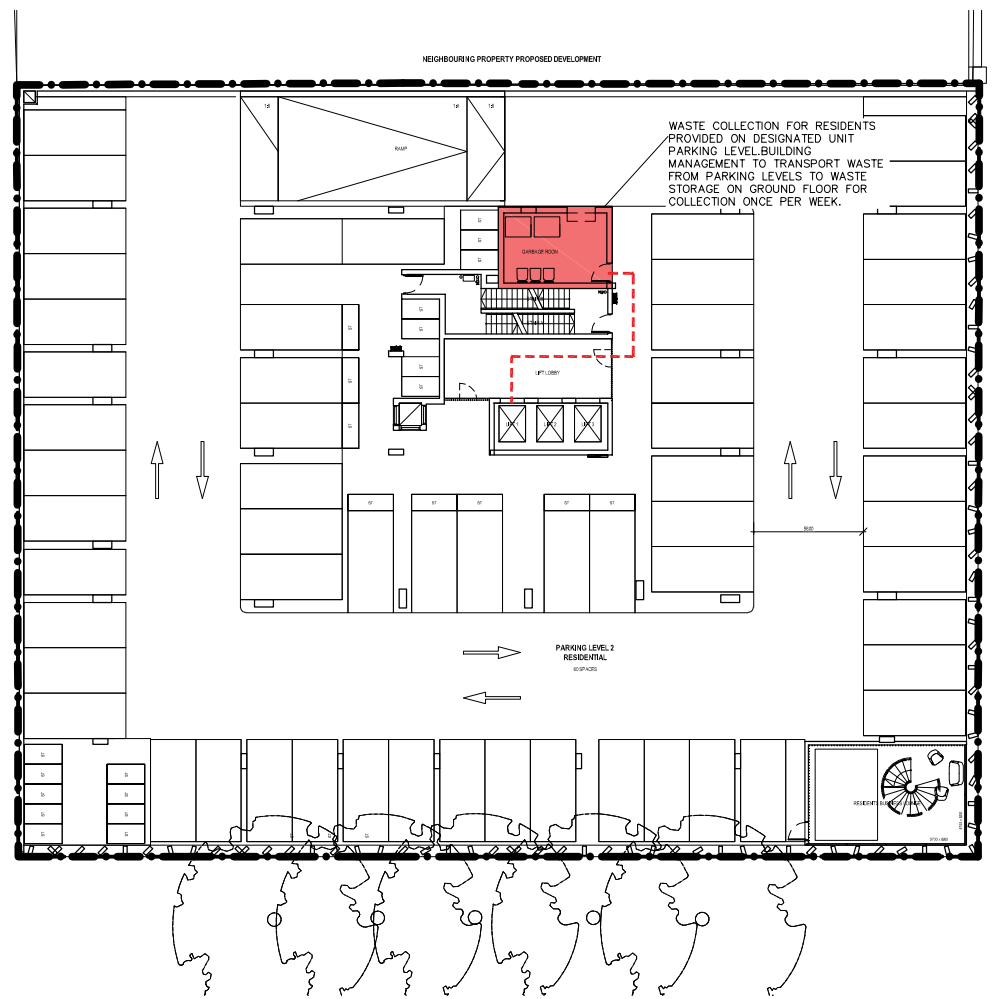
APPROVED	M.S	DATE
CHECKED	M.S	DATE
DESIGNED BY	D.K	
DRAWN BY	D.K	
CAD FILE	H:\7330 643-651 Hunter Street Newcastle\Acad\Current Drawing\GWA\7330-01-020 WASTE MANAGEMENT PLAN.dwg	
SCALE	AS SHOWN	SHEET No.

PROJECT
WATERVUE
643-651 HUNTER STREET
NEWCASTLE

DRAWING TITLE		
WASTE MANAGEMENT PLAN		
PROJECT No.	DRAWING No.	AMDT
7330-01	020	2



LEVEL 1 GARBAGE ROOM LOCATION
SCALE 1:200 AT A1

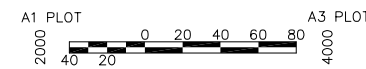


LEVEL 2 GARBAGE ROOM LOCATION
SCALE 1:200 AT A1

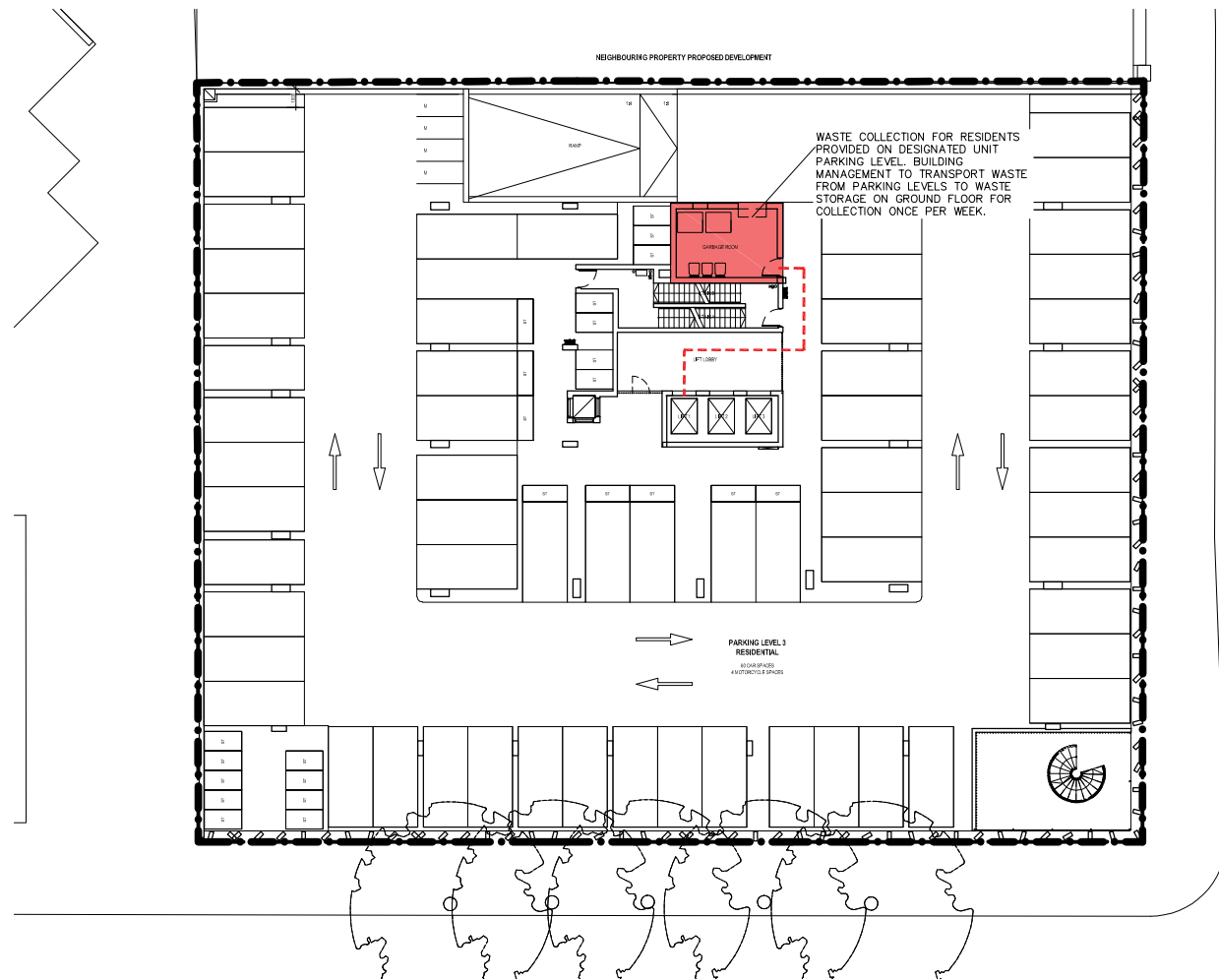
WASTE MANAGEMENT PLAN

LEGEND

- DENOTES GENERAL WASTE HOPPER
- DENOTES RECYCLING HOPPER
- DENOTES FOGO WASTE HOPPER
- DENOTES PATH OF TRAVEL
- DENOTES GARBAGE ROOM



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT	CLIENT	PROJECT	DRAWING TITLE	PROJECT No.	DRAWING No.	AMDT
1	ISSUE FOR DA APPLICATION	M.S	29.09.22	M.M	STEWART ARCHITECTURE	BL OC	INDESCO CANBERRA SYDNEY WOLLONGONG www.indesco.com.au	WATERVUE 643-651 HUNTER STREET NEWCASTLE	7330-01	021	1



LEVEL 3 GARBAGE ROOM LOCATION
SCALE 1:200 AT A1

WASTE MANAGEMENT PLAN

LEGEND

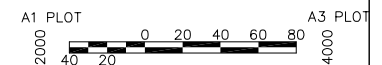


DENOTES GENERAL WASTE
HOPPER
DENOTES RECYCLING
HOPPER
DENOTES FOGO WASTE
HOPPER

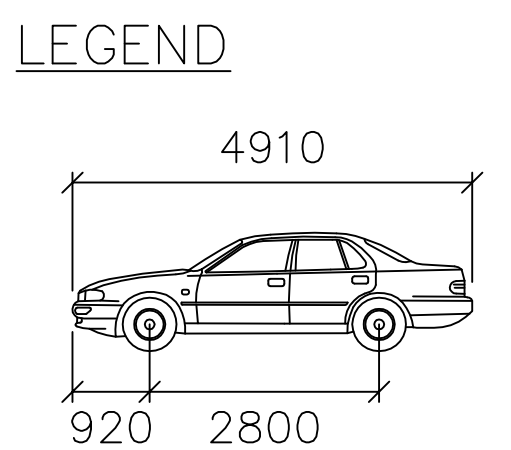
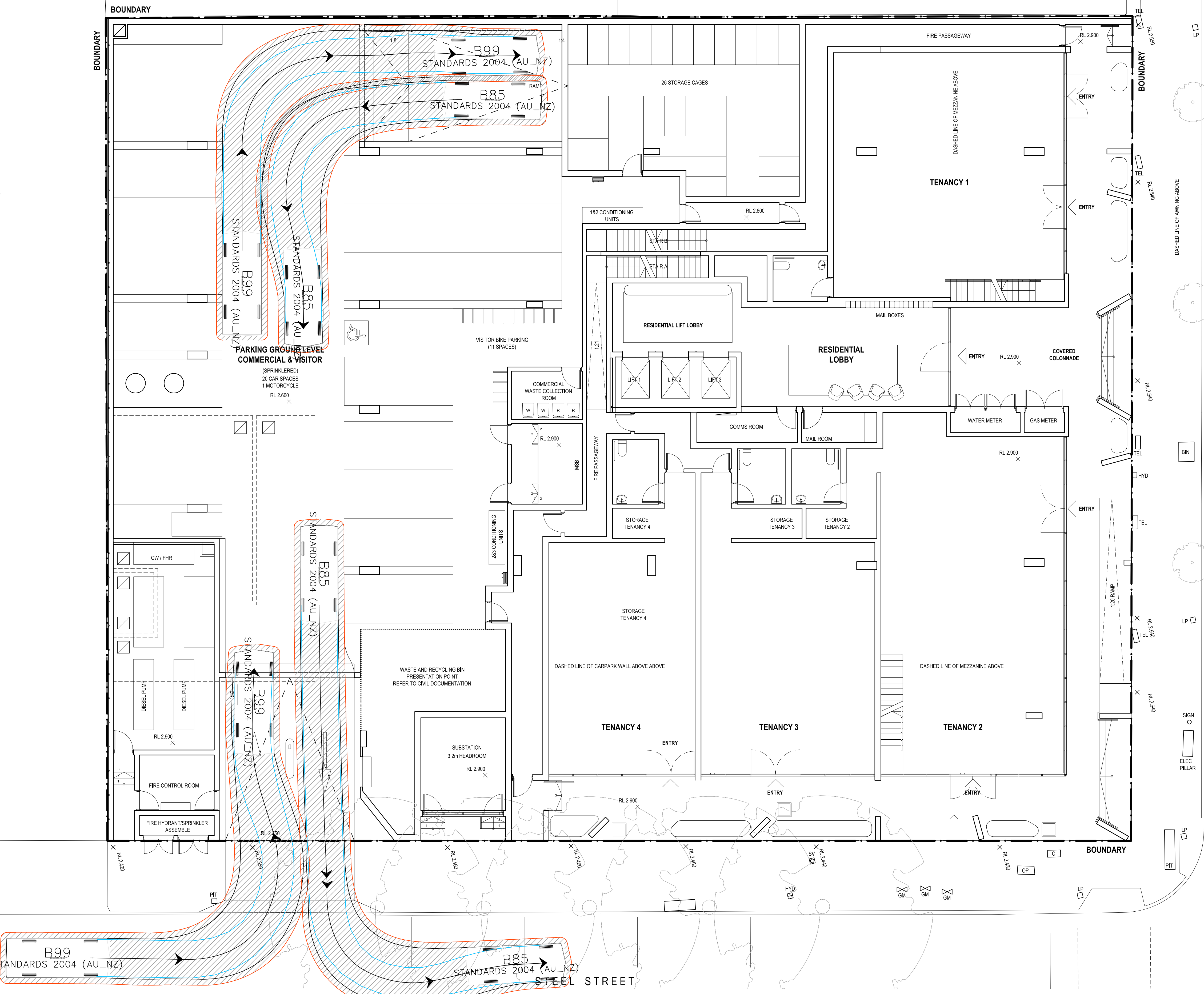
DENOTES PATH OF TRAVEL



DENOTES GARBAGE ROOM



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT	CLIENT	PROJECT	DRAWING TITLE	PROJECT No.	DRAWING No.	AMDT
1	ISSUE FOR DA APPLICATION	M.S	29.09.22	M.M.	STEWART ARCHITECTURE	BL OC	WATERVUE 643-651 HUNTER STREET NEWCASTLE	LEVEL 3 GARBAGE AND BIN STORAGE	7330-01	022	1



B85

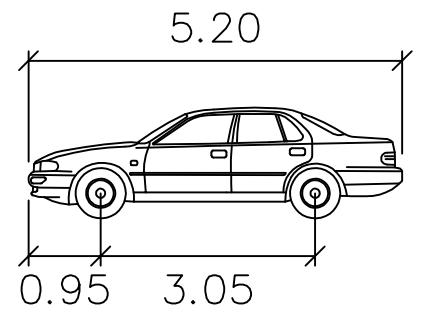
mm

Width : 1870

Track : 1770

Lock to Lock Time : 6.0

Steering Angle : 34.1



B99

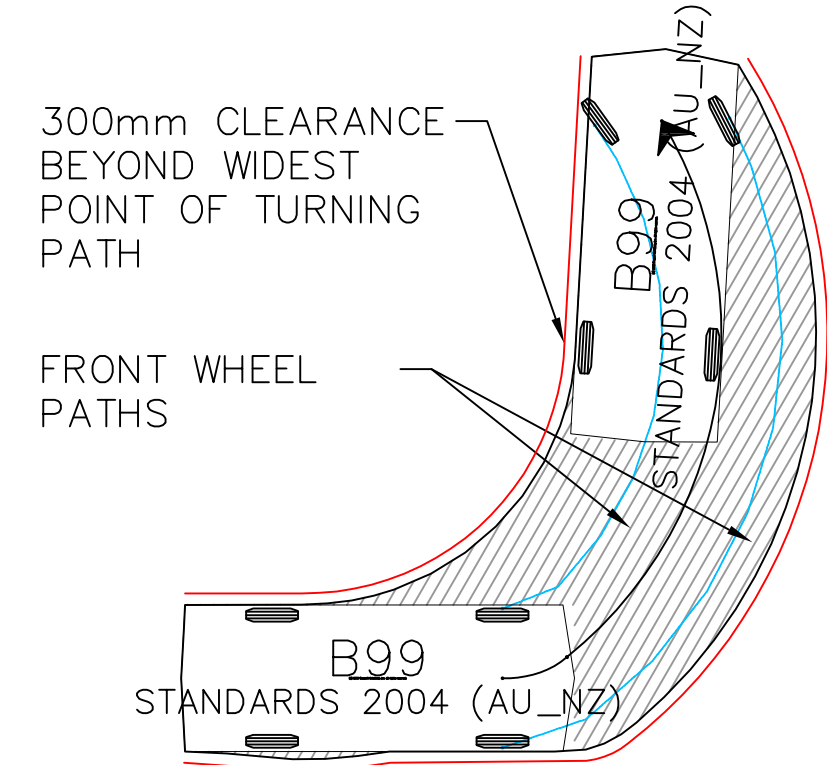
meters

Width : 1.94

Track : 1.84

Lock to Lock Time : 6.0

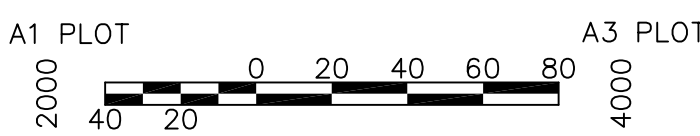
Steering Angle : 33.9



TURNING TEMPLATES B85 TURNS

B85 PASSING B99, B85 ENTERING AND EXITING

SCALE 1:100 AT A1



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT
1	ISSUE FOR DA APPLICATION	M.S	27.06.22	D.K	

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ARCHITECTURE**

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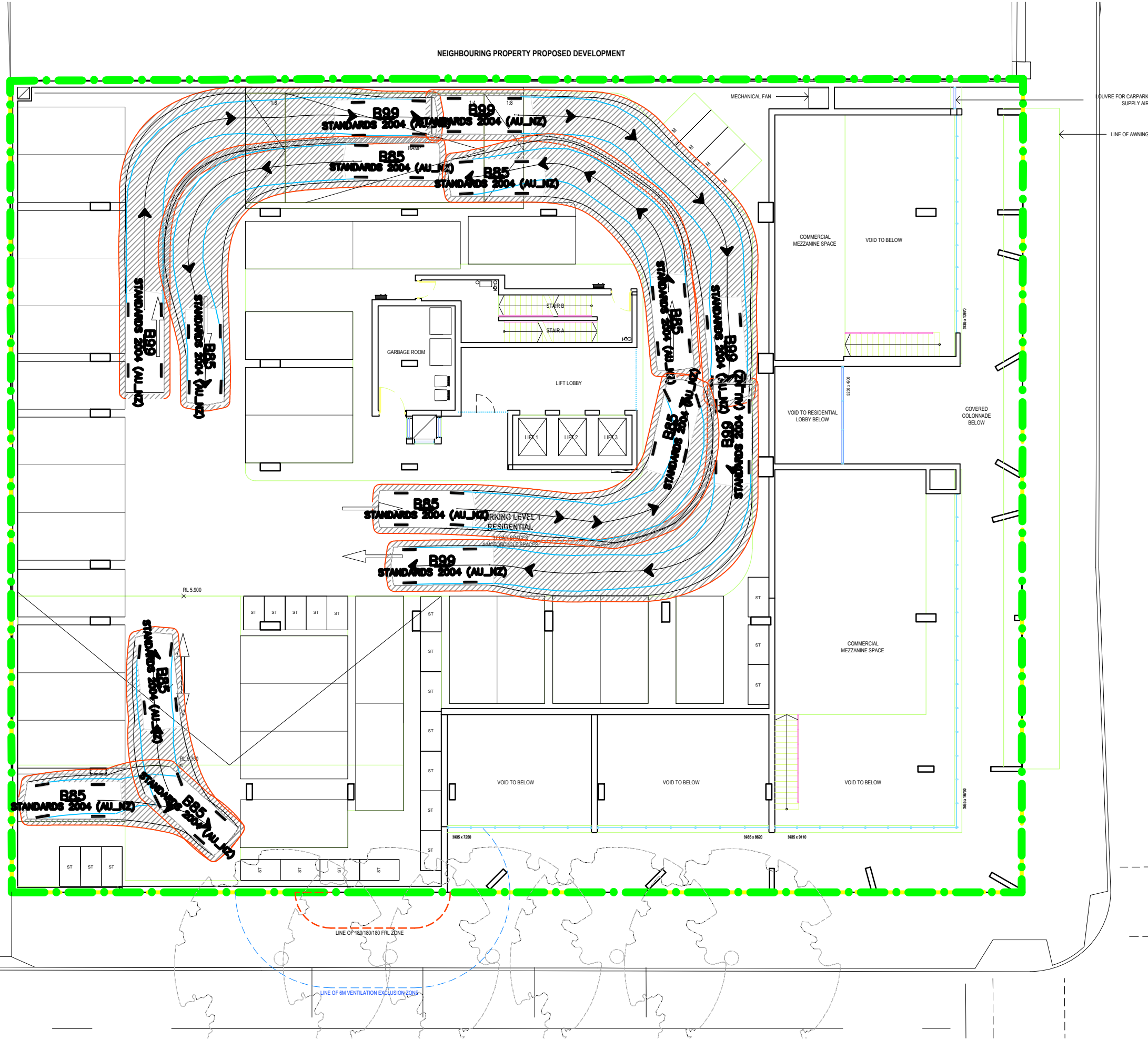
CONSULT AUSTRALIA

APPROVED	M.S	DATE
CHECKED	M.S	DATE
DESIGNED BY	D.K	
DRAWN BY	D.K	
CAD FILE	H:\7330 643-651 Hunter Street Newcastle\Acad\Current Drawing\DW\7330-01-030 GROUND FLOOR SWEEP PATH.dwg	
SCALE	AS SHOWN	SHEET No.

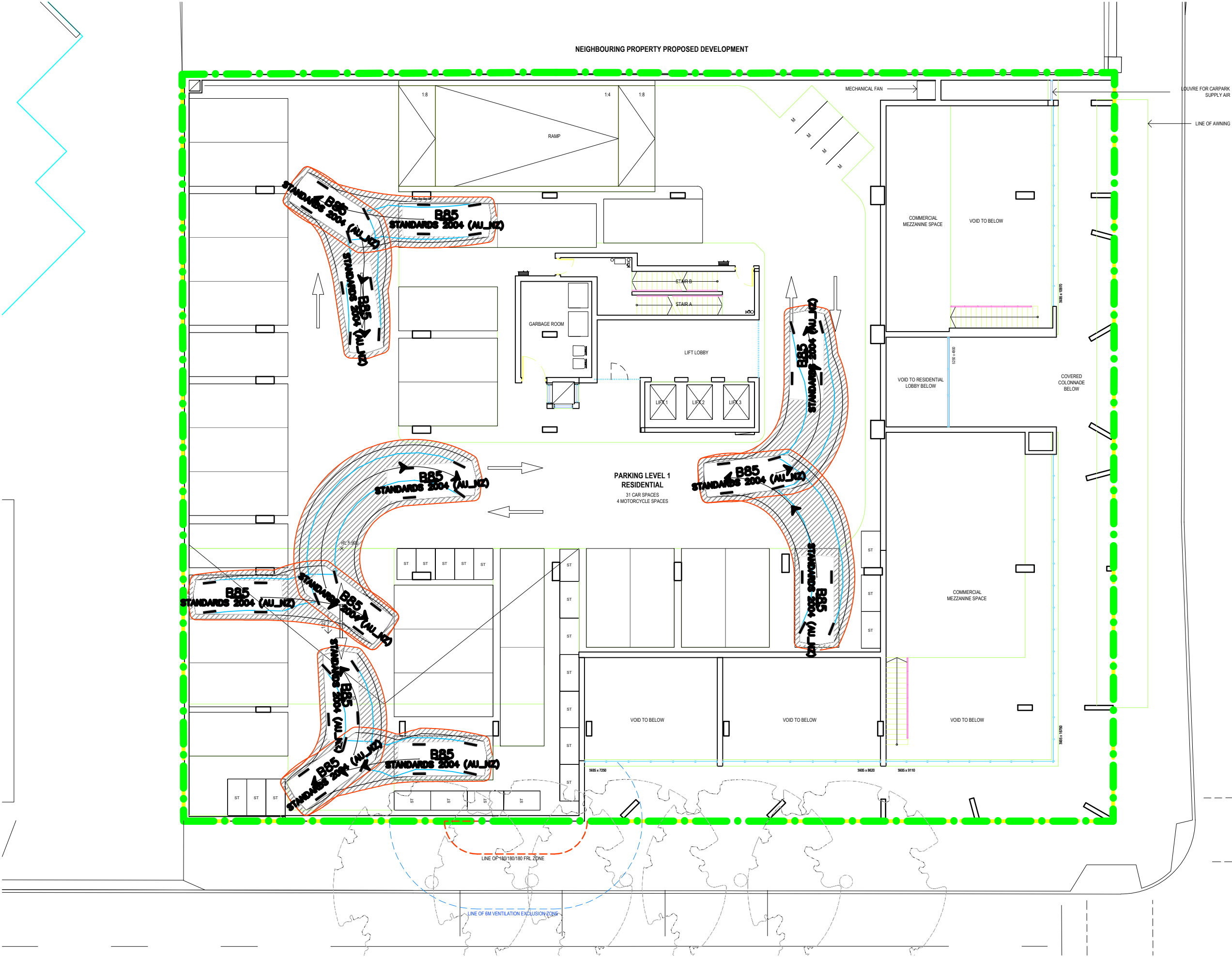
PROJECT

WATERVUE
643-651 HUNTER STREET
NEWCASTLE

DRAWING TITLE		
GROUND FLOOR SWEPT PATH ANALYSIS		
PROJECT No. 7330-01	DRAWING No. 030	AMDT 1

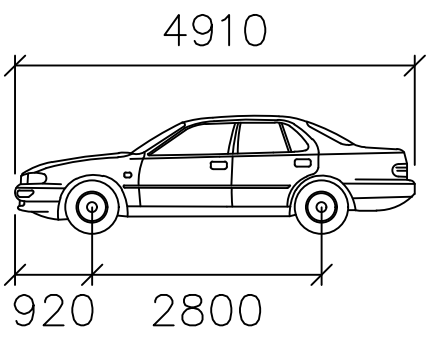


B85 PASSING B99
SCALE 1:200 AT A1

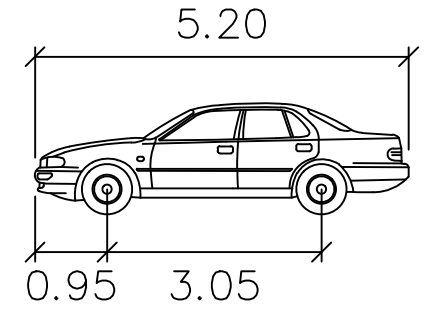


B85 ENTERING AND EXITING SPACES
SCALE 1:200 AT A1

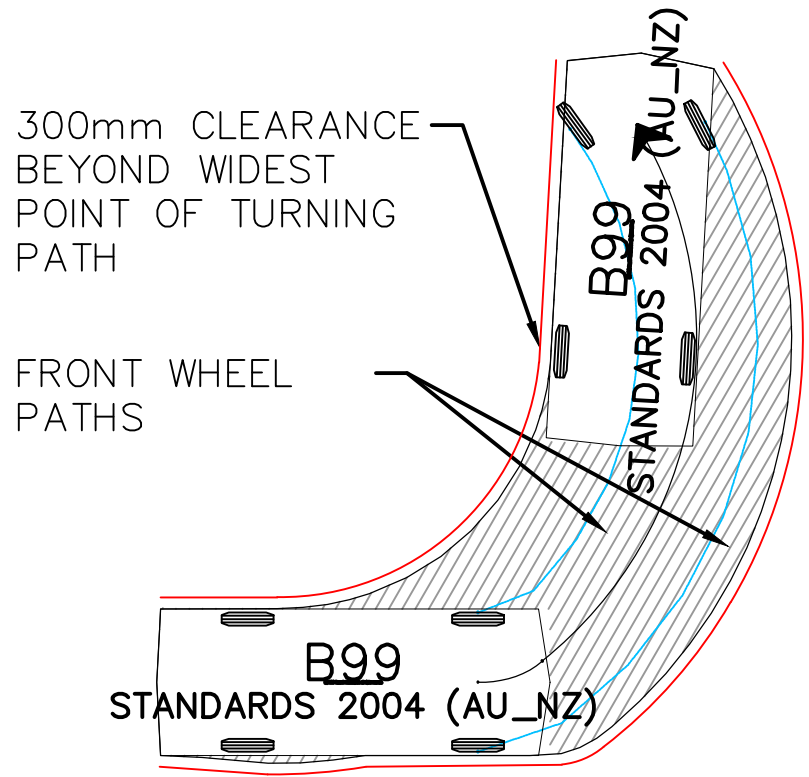
LEGEND



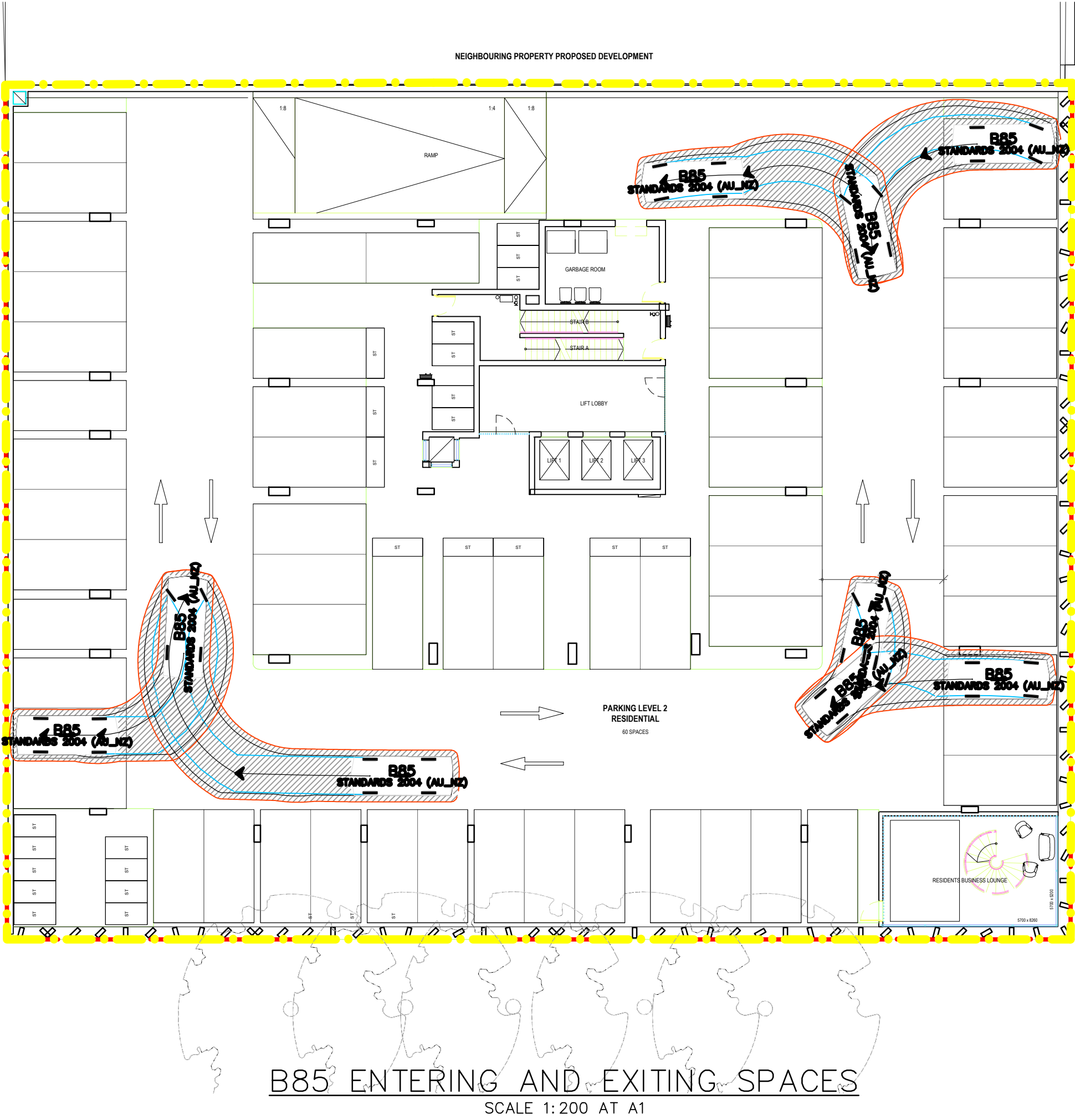
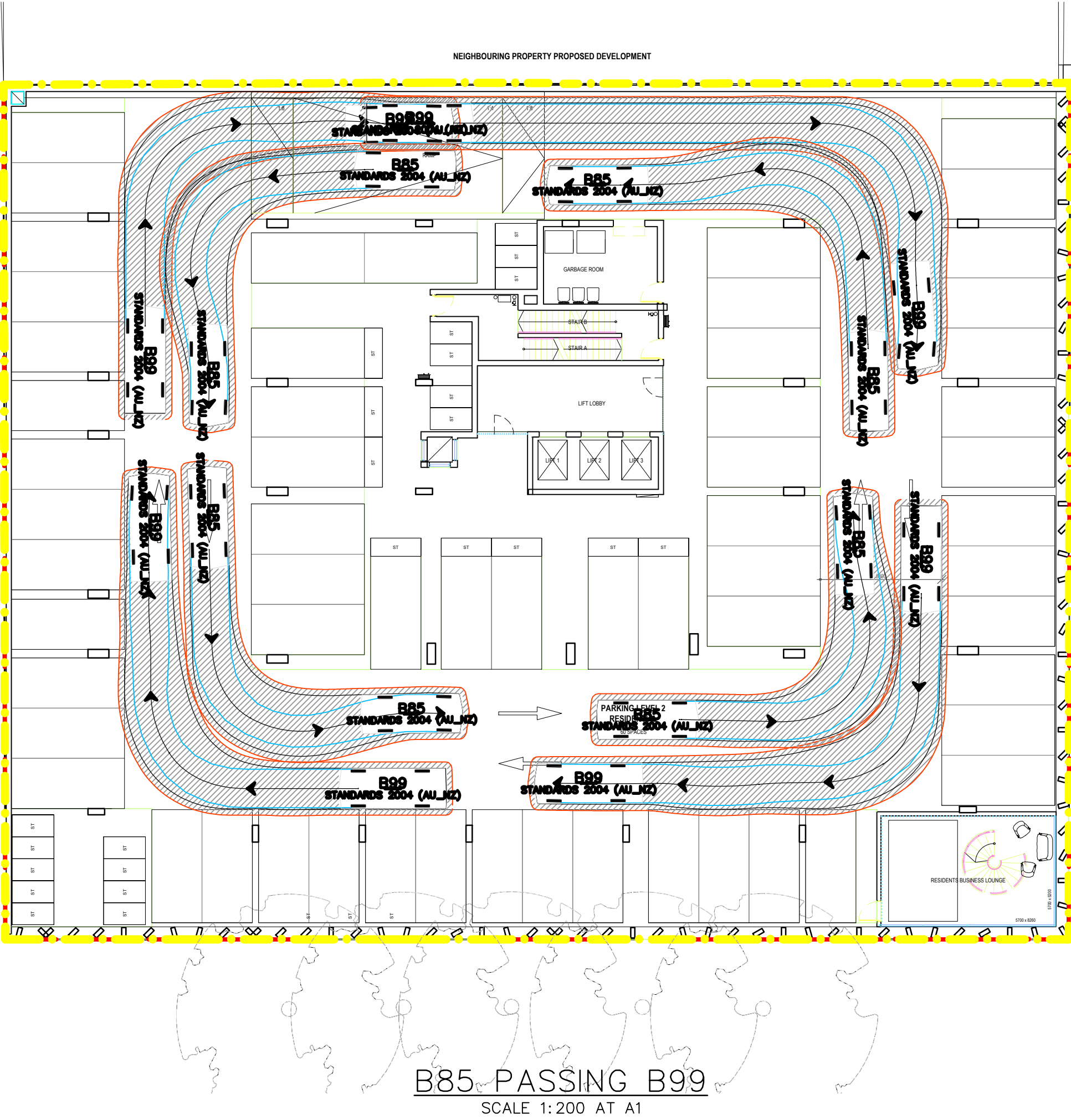
B85
Width : 1870 mm
Track : 1770 mm
Lock to Lock Time : 6.0
Steering Angle : 34.1



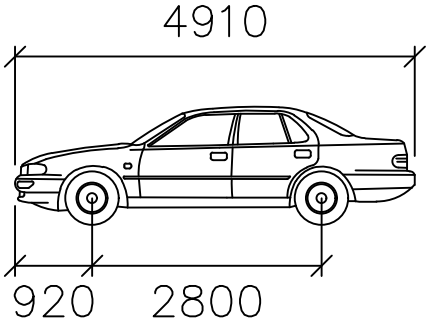
B99
Width : 1.94 meters
Track : 1.84 meters
Lock to Lock Time : 6.0
Steering Angle : 33.9



TURNING TEMPLATES B85 TURNS

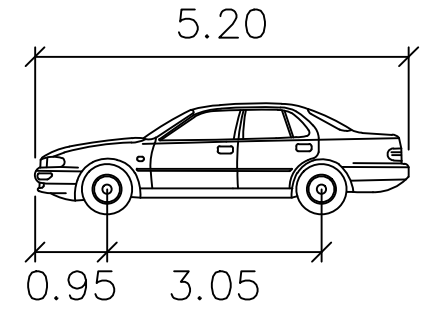


LEGEND



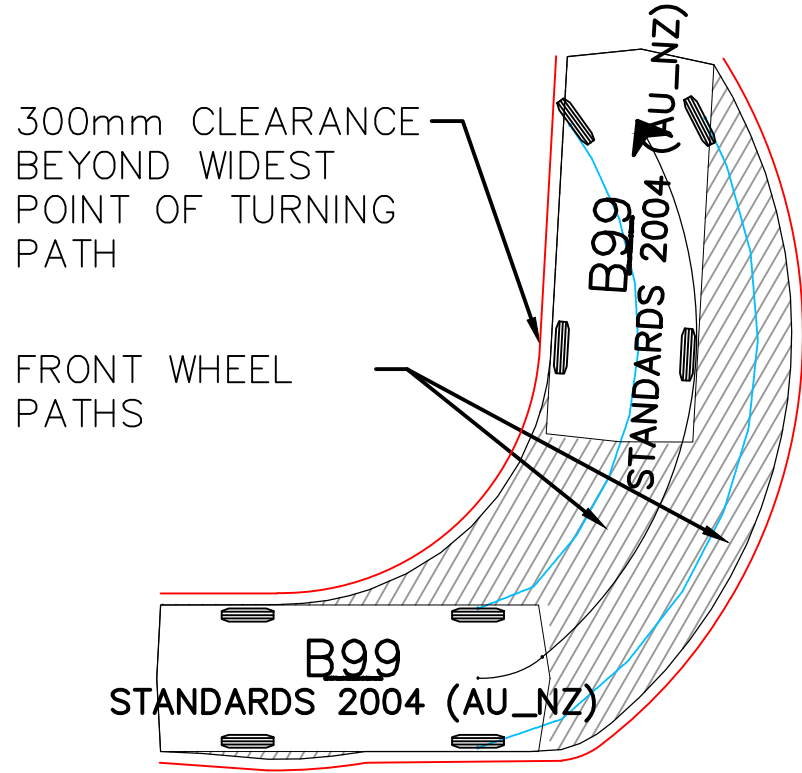
B85

Width : 1870 mm
Track : 1770 mm
Lock to Lock Time : 6.0
Steering Angle : 34.1



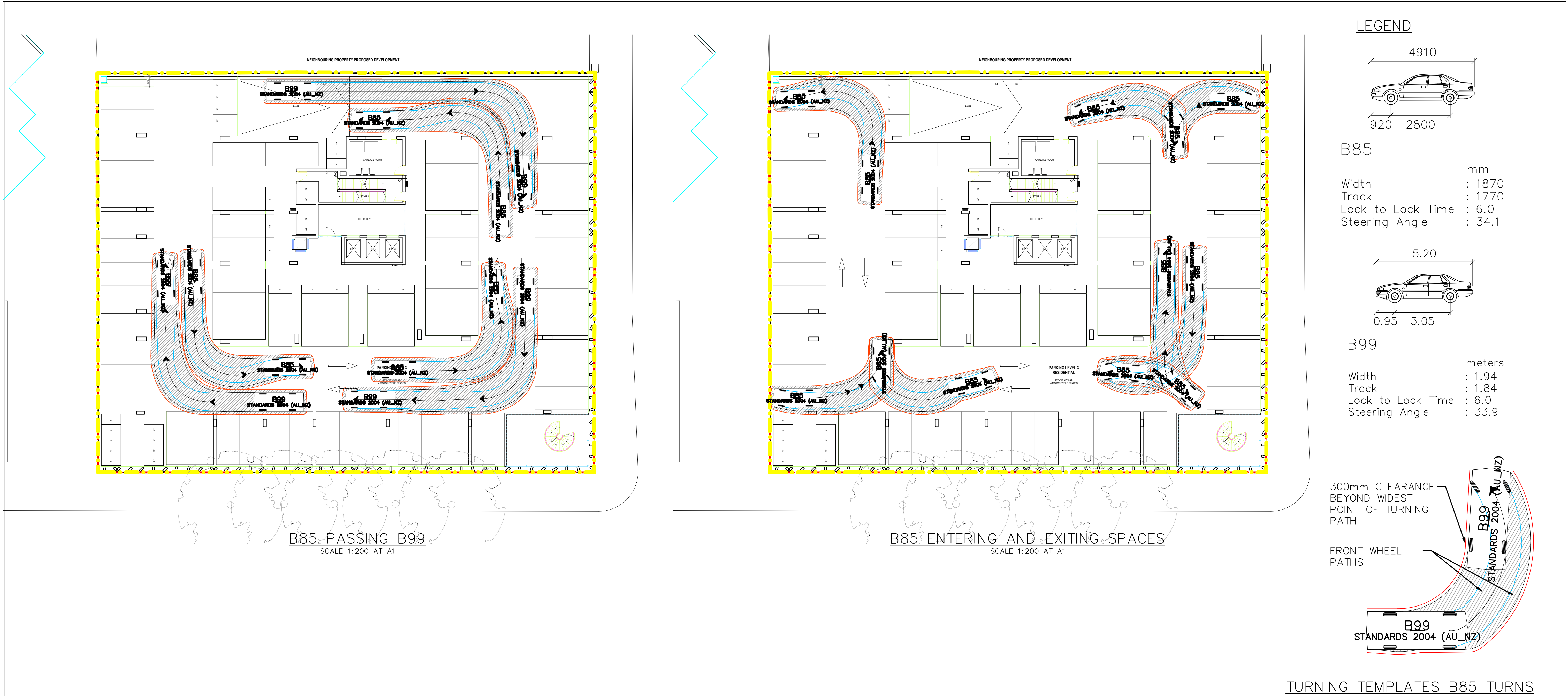
B99

Width : 1.94 meters
Track : 1.84 meters
Lock to Lock Time : 6.0
Steering Angle : 33.9

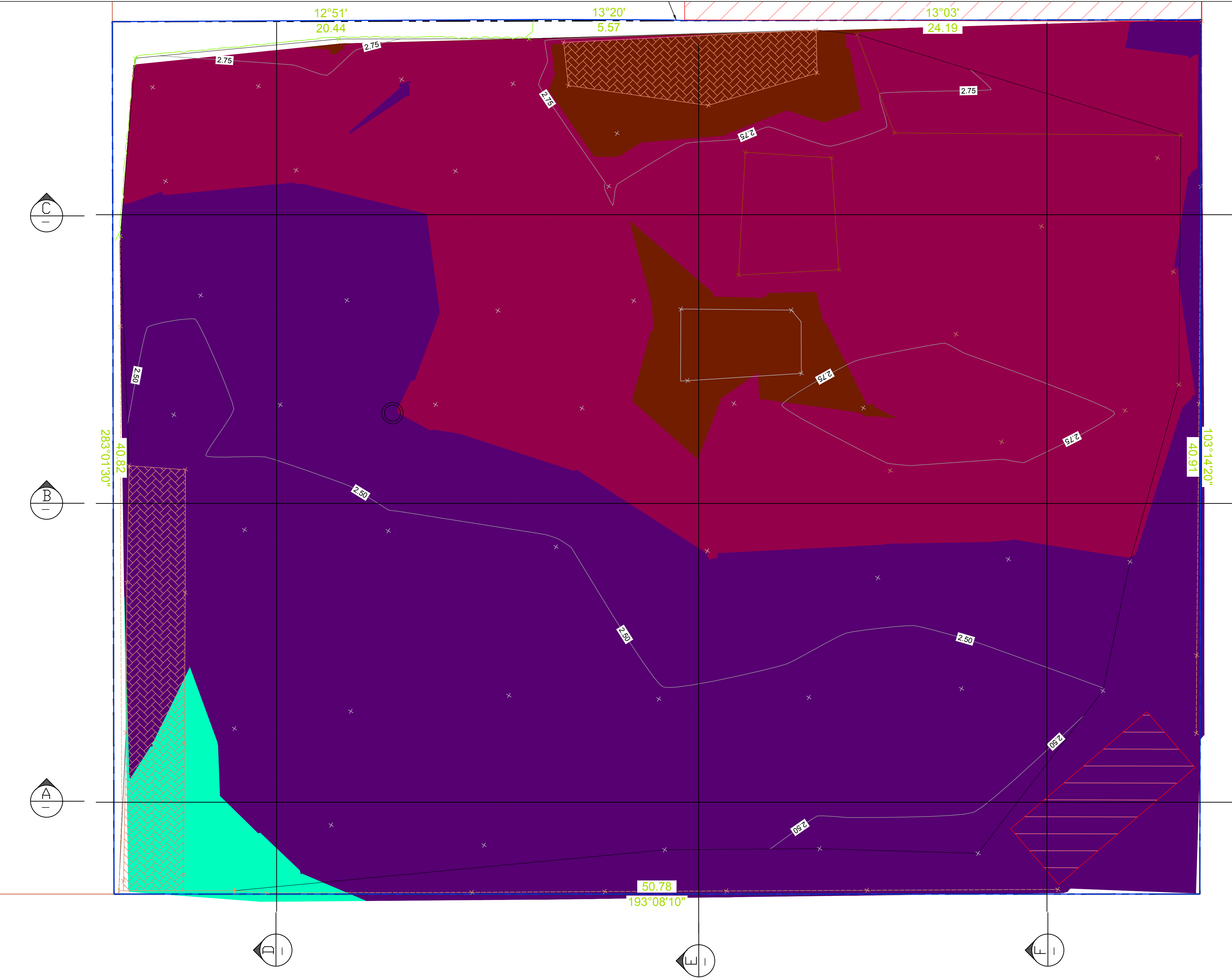


TURNING TEMPLATES B85 TURNS

No.		AMENDMENT		APPROVED	DATE	AMENDED BY	ARCHITECT	CLIENT				APPROVED		DATE		PROJECT WATERVUE 643-651 HUNTER STREET NEWCASTLE	DRAWING TITLE LEVEL 2 SWEPT PATH ANALYSIS			
							STEWART ARCHITECTURE		 CANBERRA SYDNEY WOLLONGONG www.indesco.com.au		 DISAS DISAS DISAS	CHECKED	M.S	DATE						
						DESIGNED BY						D.K								
						DRAWN BY						D.K								
						CAD FILE M:\V330 643-651 Hunter Street Newcastle\Aod\Current Drawings\ch\V330-01-032 LEVEL 2 SWEPT PATH.dwg														
						SCALE						AS SHOWN		SHEET No.						
1	ISSUE FOR DA APPLICATION			M.S	27.06.22	D.K							PROJECT No. 7330-01			DRAWING No. 032		AMDT 1		



No.					AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT	ARCHITECT	CLIENT
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PRE-DEVELOPMENT PMF STORAGE

FILL DEPTHS		Upper_value	Colour
Lower_value			
0	to	0.2	
-0.2	to	0	
-0.4	to	-0.2	
-0.6	to	-0.4	
-0.8	to	-0.6	
-1	to	-0.8	
-1.2	to	-1	
-1.4	to	-1.2	
-1.6	to	-1.4	
-1.8	to	-1.6	
-2	to	-1.8	

SITE PMF VOLUME CALCULATION
EXISTING SITE VOLUME = 3220m³ - PMF RL 4.2AHD

No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT
1	ISSUE FOR DA APPLICATION	M.S	27.06.22	D.K	

STEWART
ARCHITECTURE

BL
OC

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CONSULT AUSTRALIA

DISAS

DISAS

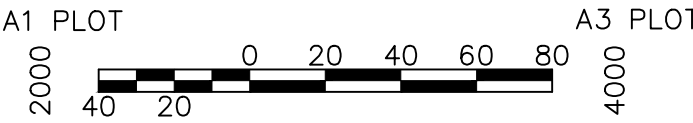
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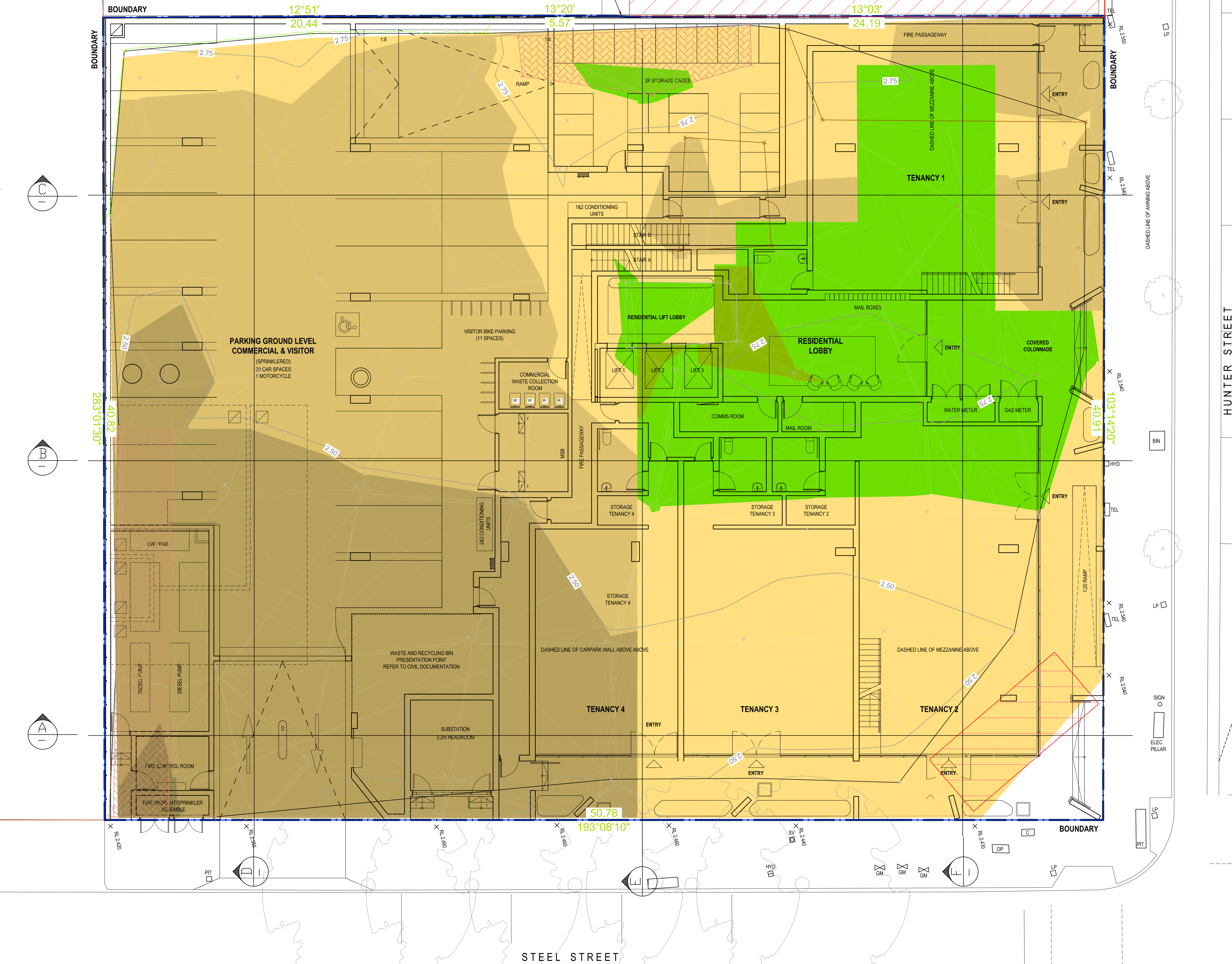
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CHECKED	M.S	DATE
DESIGNED BY	D.K	
DRAWN BY	D.K	
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SCALE	AS SHOWN	SHEET No.

PROJECT

WATERVUE
643-651 HUNTER STREET
NEWCASTLE

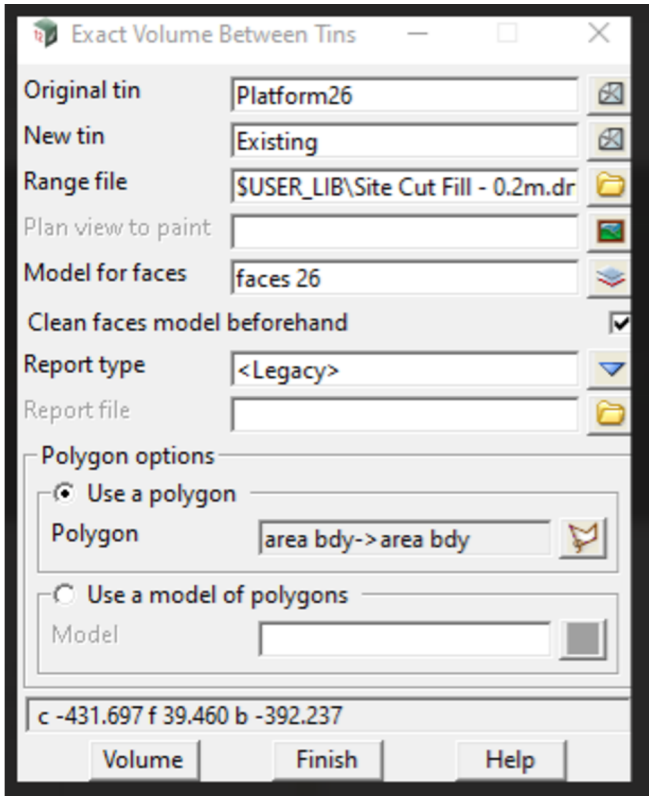
DRAWING TITLE	
PRE-DEVELOPMENT PMF STORAGE DEPTHS	
PROJECT No. 7330-01	DRAWING No. 040
AMDT 1	





POST-DEVELOPMENT PMF STORAGE

FILL DEPTHS	Lower_value	Upper_value	Colour
0	to	0.2	
-0.2	to	0	
-0.4	to	-0.2	
-0.6	to	-0.4	
-0.8	to	-0.6	
-1	to	-0.8	
-1.2	to	-1	
-1.4	to	-1.2	
-1.6	to	-1.4	
-1.8	to	-1.6	
-2	to	-1.8	



SITE PMF VOLUME CALCULATION

EXISTING SITE VOLUME = 3220m³ - PMF RL 4.2AHD
ALLOWABLE SITE REDUCTION (PROPOSED DEVELOPMENT) = 20%
ALLOWABLE DEVELOPMENT FILL VOLUME = 644m³
PROPOSED DEVELOPMENT FILL VOLUME = 431.7m³

No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT
1	ISSUE FOR DA APPLICATION	M.S	27.06.22	D.K	

STEWART
ARCHITECTURE

CLIENT

BL
OC

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APPROVED M.S DATE

CHECKED M.S DATE

DESIGNED BY D.K

DRAWN BY D.K

CAD FILE H:\7330-643-001 Hunter Street Newcastle\A\041\Current Drawing\DWG\7330-01-041 POST CONSTRUCTION PMF STORAGE.dwg

SCALE AS SHOWN

SHEET No.

PROJECT

WATERVUE

643-651 HUNTER STREET

NEWCASTLE

DRAWING TITLE

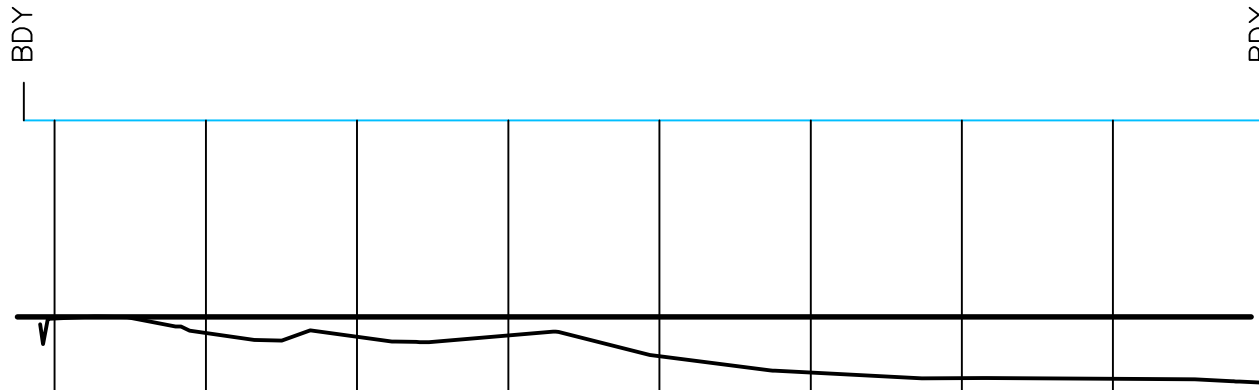
POST-DEVELOPMENT
PMF STORAGE DEPTHS

PROJECT No. 7330-01

DRAWING No. 041

AMDT 1

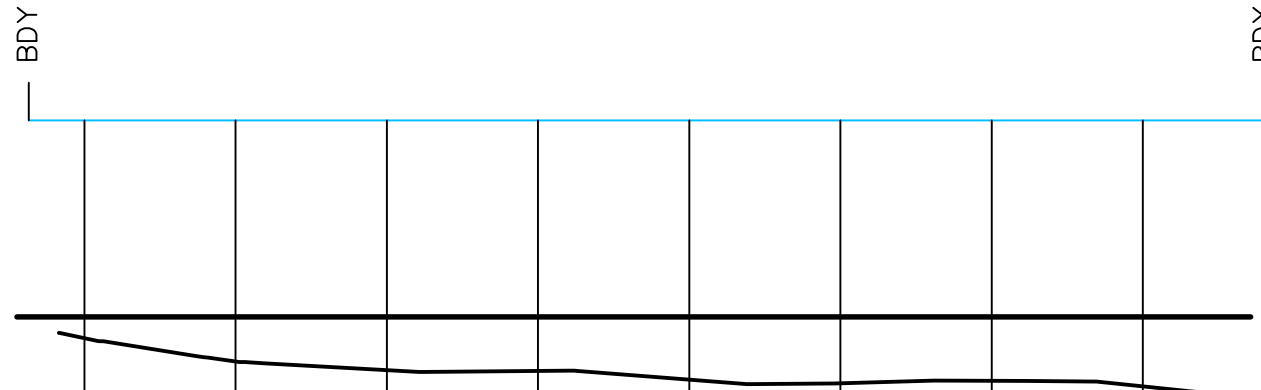




DATUM RL.1.000

PRE DEVELOP LEVEL (EXIST)	2.888	2.793	2.769	2.777	2.639	2.532	2.495	2.491	
4.2m AHD LEVEL	4.200	4.200	4.200	4.200	4.200	4.200	4.200	4.200	
POST DEVELOP LEVEL	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900	
PEGGED CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
									45.000
									46.726

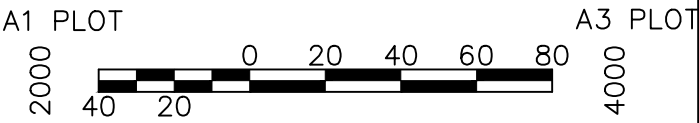
H 1:250
V 1:50LONGITUDINAL SECTION - SECTION E-E



DATUM RL.1.000

PRE DEVELOP LEVEL (EXIST)	2.758	2.605	2.547	2.541	2.485	2.461	2.477	2.439	
4.2m AHD LEVEL	4.200	4.200	4.200	4.200	4.200	4.200	4.200	4.200	
POST DEVELOP LEVEL	2.900	2.900	2.900	2.900	2.900	2.900	2.900	2.900	
PEGGED CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
									45.000
									46.726

H 1:250
V 1:50LONGITUDINAL SECTION - SECTION F-F



No.	AMENDMENT	APPROVED	DATE	AMENDED BY
1	ISSUE FOR DA APPLICATION	M.S	27.06.22	D.K

ARCHITECT

STEWART
ARCHITECTURE

CLIENT

BL
OC

INDESCO

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APPROVED M.S DATE

CHECKED M.S DATE

DESIGNED BY D.K

DRAWN BY D.K

CAD FILE H:\7330-01-046 Hunter Street Newcastle\Acad\Current Drawings\DW\7330-01-046 FLOOD STORAGE SECTIONS SHEET 2.dwg

SCALE AS SHOWN

SHEET No.

PROJECT

WATERVUE

643-651 HUNTER STREET

NEWCASTLE

DRAWING TITLE

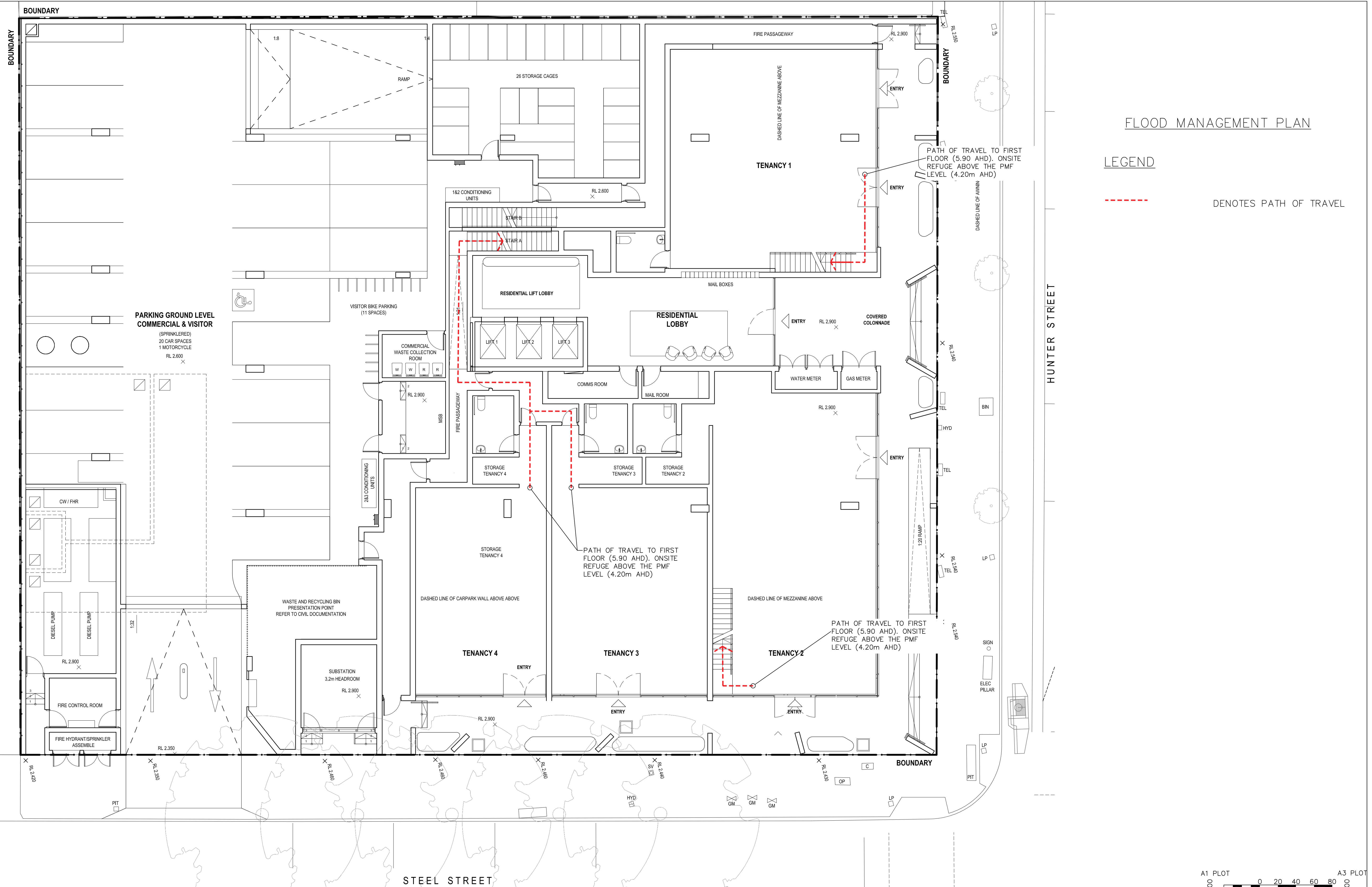
FLOOD STORAGE SECTIONS

SHEET 2

PROJECT No. 7330-01

DRAWING No. 046

AMDT 1



No.	AMENDMENT	APPROVED	DATE	AMENDED BY	ARCHITECT	CLIENT
					STEWART ARCHITECTURE	BLOCC
1	ISSUE FOR DA APPLICATION	M.S	29.09.22	M.M.		

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CONSULT AUSTRALIA

DHRS DESIGN HOUSE

PROJECT	
WATERVUE 643-651 HUNTER STREET NEWCASTLE	

DRAWING TITLE		
GROUND FLOOR EVACUATION PLAN		

PROJECT No.	DRAWING No.	AMOUNT
7330-01	047	1

AS SHOWN	
CAD FILE: H:\7330_643-651 Hunter Street WaterVue\Asat\Current Drawings\DWG\7330-01-047 FLOOD EVACUATION GROUND FLOOR.dwg	SHEET No.