

CENTRAL COAST COUNCIL
285-335 PACIFIC HIGHWAY, LAKE MUNMORAH
EXTERNAL COUNCIL ROAD UPGRADES
CONCEPT ENGINEERING DESIGN



LOCALITY
NOT TO SCALE

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Prepared for: | |
CREATING THRIVING COMMUNITIES

ENGINEERING | PLANNING | PROJECT MANAGEMENT | SURVEYING | CERTIFICATION

Revision H
Date 10/03/2025
Project No. CC180099-03



GENERAL NOTES

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE DEVELOPMENT CONSENT AND THE CENTRAL COAST COUNCIL'S WORKS SPECIFICATIONS SUBDIVISIONS / DEVELOPMENTS AND / OR AS DIRECTED BY THEIR REPRESENTATIVE AND MUST INCLUDE ANY NECESSARY WORKS REQUIRED TO MAKE THE CONSTRUCTION EFFECTIVE. ALL WORKS AND PUBLIC UTILITY RELOCATION SHALL INCUR NO COST TO COUNCIL.
- THE CONTRACTOR IS TO IDENTIFY, LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS AND WHERE NECESSARY MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST WHERE NECESSARY.
- ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE WORK HEALTH & SAFETY ACT 2017 AND ALL RELEVANT OCCUPATIONAL HEALTH & SAFETY POLICIES AND REGULATIONS.
- DIMENSIONS SHALL NOT BE SCALED FROM THE PLANS. CLARIFICATION OF DIMENSIONS SHALL BE SOUGHT FROM THE SUPERINTENDENT OR REFERRED TO THE DESIGNER.
- SURVEY MARKS SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE ENGINEER SHALL BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN OR ON ADJACENT LANDS WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT AND THE WRITTEN PERMISSION OF THE OWNERS.
- THE CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
- FELLED TREES SHALL BE SALVAGED FOR RE-USE AS WOODCHIP MULCH OR LOG FORM FOR SITE REHABILITATION, NON-SALVAGEABLE MATERIAL SUCH AS STUMPS AND ROOTS SHALL BE APPROPRIATELY DISPOSED OF OFF SITE.
- THE CONTRACTOR SHALL PROVIDE MINIMUM 24 HOURS NOTICE TO CERTIFIERS REPRESENTATIVE FOR ALL INSPECTIONS.
- ALL NATURAL SURFACE DATA HAS BEEN DETERMINED BY TERRAIN MODELLING. ALL CONSTRUCTION SITE WORKS MUST BE CARRIED OUT USING THE BENCH MARKS SHOWN ON THESE DRAWINGS.
- THE REUSE AND RECYCLING OF WASTE MATERIALS MUST BE MAXIMISED DURING CONSTRUCTION AND DEMOLITION. THE SEPARATION AND RECYCLING OF THE FOLLOWING WASTE MATERIAL a) MASONRY b) TIMBER c) METALS d) CLEAN WASTE e) MIXED WASTE THIS CAN BE ACHIEVED BY CONSTRUCTING A MINIMUM OF FIVE TRADE WASTE COMPOUNDS ON-SITE COPIES OF ACTUAL WEIGHBRIDGE RECEIPTS VERIFYING RECYCLING/DISPOSAL MUST BE KEPT AND PRESENTED TO COUNCIL OR NOMINATED AUTHORITY WHEN REQUIRED.
- THE TREES THAT ARE TO BE RETAINED ARE TO BE PROTECTED DURING ALL WORKS WITH 1.8m HIGH CHAINWIRE FENCING WHICH IS TO BE ERECTED AT LEAST THREE METRES FROM THE BASE OF EACH TREE AND IS TO BE IN PLACE PRIOR TO WORKS COMMENCING TO RESTRICT THE FOLLOWING OCCURRING: STOCKPILING OF MATERIALS WITHIN THE ROOT PROTECTION ZONE, PLACEMENT OF FILL WITHIN THE ROOT PROTECTION ZONE, PARKING OF VEHICLES WITHIN THE ROOT PROTECTION ZONE, COMPACTION OF SOIL WITHIN THE ROOT PROTECTION ZONE. ALL AREAS WITHIN THE ROOT PROTECTION ZONE ARE TO BE MULCHED WITH COMPOSTED LEAF MULCH TO A DEPTH NOT LESS THAN 100mm. THE INSTALLATION OF SERVICES WITHIN THE ROOT PROTECTION ZONE IS NOT TO BE UNDERTAKEN WITHOUT CONSULTATION WITH COUNCIL'S TREE MANAGEMENT OFFICER.
- A COPY OF THE DEVELOPMENT CONSENT AND STAMPED PLANS AND TRAFFIC CONTROL PLAN SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.
- IF, DURING THE COURSE OF ANY WORKS, ANY EVIDENCE OF AN ABORIGINAL ARCHAEOLOGICAL SITE OR RELIC IS FOUND, ALL WORKS ON THE SITE ARE TO CEASE AND THE DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE AND THE NSW HERITAGE BRANCH ARE TO BE NOTIFIED IMMEDIATELY.
- IF, DURING THE COURSE OF ANY WORKS, ANY EVIDENCE OF A EUROPEAN ARCHAEOLOGICAL SITE OR RELIC IS FOUND, ALL WORKS ON THE SITE ARE TO CEASE AND THE NSW HERITAGE BRANCH CONTACTED IMMEDIATELY. ALL RELICS ARE TO BE RETAINED IN SITU UNLESS OTHERWISE DIRECTED BY THE NSW HERITAGE BRANCH.
- ANY NEW INFORMATION, WHICH COMES TO LIGHT DURING CONSTRUCTION WORKS, WHICH HAS THE POTENTIAL TO ALTER PREVIOUS CONCLUSIONS ABOUT SITE CONTAMINATION, SHALL BE IMMEDIATELY NOTIFIED TO COUNCIL.
- CONSTRUCTION INSPECTIONS ARE REQUIRED FOR THE ENGINEERING WORKS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL WORKS SPECIFICATION.
- SEDIMENT MEASURES SHALL BE IMPLEMENTED PRIOR TO SOIL DISTURBANCE IN KEEPING WITH THE 4th EDITION OF LANDCOMS "SOILS AND CONSTRUCTION - MANAGING URBAN STORMWATER" MARCH 2004 TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE AND AS SHOWN IN THESE DRAWINGS.
- THE CONTRACTOR SHALL CLEAR AND DISPOSE OF ONLY THOSE TREES THAT ARE CONDEMNED BY THE PLANS. COUNCIL'S TREE PRESERVATION ORDER SHALL BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL OF COUNCIL.
- THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, OUT HOUSES, CAR BODIES, DEBRIS, ETC. THE CONTRACTOR SHALL NOT DISPOSE OF ANY DEBRIS BY BURNING OFF IN AN OPEN FIRE.

ROADWORKS NOTES

- ERECT STREET NAME SIGNS, CONDUIT WARNING SIGNS AND NO THROUGH ROAD SIGNS WHERE SHOWN OR WHERE DIRECTED BY COUNCIL'S REPRESENTATIVE.
- THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MEASURES TO COUNCIL'S SATISFACTION AND SHALL DISPLAY ALL APPROPRIATE WARNING SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.
- UN SOUND MATERIALS AS DETERMINED BY THE COUNCIL'S REPRESENTATIVE SHALL BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING.
- PROVIDE VEHICULAR ENTRIES IN KERB AND GUTTER WHERE SHOWN OR DIRECTED BY THE SUPERINTENDENT.

EARTHWORKS NOTES

- CARE IS TO BE TAKEN DURING THE CONSTRUCTION OF THE PROPOSED WORKS TO ENSURE NATURAL VEGETATION AND TOPOGRAPHY ON THE SUBJECT SITE IS NOT UNNECESSARILY DISTURBED. ANY EXCAVATION MATERIAL NOT USED IN THE CONSTRUCTION OF THE SUBJECT WORKS IS TO BE REMOVED FROM THE SITE AND UNDER NO CIRCUMSTANCES IS TO BE DEPOSITED IN BUSHLAND AREAS.
- COUNCIL MUST BE NOTIFIED OF ANY DAMAGE TO THE PUBLIC INFRASTRUCTURE SUCH AS ROAD PAVEMENT, KERB AND GUTTER, CONCRETE FOOTPATHS, DRAINAGE STRUCTURES, UTILITIES AND LANDSCAPING FRONTING THE DEVELOPMENT..
- UN SOUND MATERIALS AS DETERMINED BY COUNCIL'S REPRESENTATIVE SHALL BE REMOVED FROM ROADS AND LOTS PRIOR TO ANY FILLING.
- ALL SITE REGRADING AREAS SHALL BE GRADED TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE LEVELS ON THE EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING ANY FILL OPERATIONS.
- SURPLUS EXCAVATED MATERIAL SHALL BE PLACED OR DISPOSED OF IN ACCORDANCE WITH THE CONTRACT, OR AS DIRECTED BY THE SUPERINTENDENT.
- ALL SITE FILLING SHALL BE PLACED IN LAYERS NOT EXCEEDING COUNCILS AND GEOTECH REQUIREMENTS. FILL IS TO BE COMPACTED IN ACCORDANCE WITH GEOTECH SPECIFICATIONS AND BE TESTED AT THE REQUIRED INTERVALS BY AN APPROVED N.A.T.A. GEOTECHNICAL LABORATORY.
- MINIMUM 150mm THICK TOPSOIL SHALL BE SPREAD ON ALL BERMS, BATTERS AND SITE REGRADING AREAS. EXCESS TOPSOIL SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT.
- ALL LAND DISTURBED BY EARTHWORKS SHALL BE SPRAY-GRASSED, TURFED OR SIMILARLY TREATED TO ESTABLISH GRASS COVER. SEED MIXTURES ARE TO BE APPROVED BY COUNCIL PRIOR TO SPRAYING. ALL GRASSED AREAS SHALL BE REGULARLY WATERED AND MAINTAINED UNTIL EXPIRATION OF THE MAINTENANCE PERIOD.
- THE DISPOSAL / LANDFILL OF SURPLUS EXCAVATED MATERIAL, OTHER THAN TO A DECC LICENSED FACILITY, IS NOT PERMITTED WITHOUT FORMAL APPROVAL FROM COUNCIL PRIOR TO THE COMMENCEMENT OF WORKS. ANY UNAUTHORIZED DISPOSAL OF WASTE, WHICH INCLUDES EXCAVATED MATERIAL, IS A BREACH OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997 AND SUBJECT TO SUBSTANTIAL PENALTIES. UNLESS COUNCIL APPROVES AN ALTERNATIVE SITE, THEN ALL SURPLUS MATERIAL MUST BE DISPOSED OF AT A LICENSED WASTE FACILITY. COPIES OF ACTUAL WEIGHBRIDGE RECEIPTS VERIFYING RECYCLING / DISPOSAL MUST BE KEPT AND PRESENTED TO COUNCIL WHEN REQUIRED.
- THE ONLY WASTE DERIVED FILL MATERIAL THAT MAY BE RECEIVED AT THE DEVELOPMENT SITE IS: a) VIRGIN EXCAVATED NATURAL MATERIAL OR b) ANY OTHER WASTE-DERIVED MATERIAL THE SUBJECT OF A RESOURCE RECOVERY UNDER CLAUSE 51A OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS (WASTE) REGULATION 2005 THAT IS PERMITTED TO BE USED AS FILL MATERIAL. ANY WASTE-DERIVED MATERIAL THE SUBJECT OF A RESOURCE RECOVERY EXEMPTION RECEIVED AT THE DEVELOPMENT SITE MUST BE ACCOMPANIED BY DOCUMENTATION AS TO THE MATERIAL'S COMPLIANCE WITH THE EXEMPTION CONDITIONS AND MUST BE PROVIDED TO THE PRINCIPAL CERTIFYING AUTHORITY ON REQUEST.

SERVICE NOTES

- THE CONTRACTOR IS TO IDENTIFY, LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS AND WHERE NECESSARY MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST.
- BARKER RYAN STEWART DOES NOT ACCEPT ANY LIABILITY FOR INACCURACIES IN THE SERVICE INFORMATION SHOWN.
- CONDUITS SHALL BE LAID AFTER POSITIONS HAVE BEEN DETERMINED BY THE RELEVANT AUTHORITIES AND BEFORE FINAL A.C. IS LAID.
- POSITION OF CONDUITS SHALL BE MARKED ON THE KERB.
- THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WETHER ACCESS AT ALL TIMES TO THE ADJOINING PROPERTIES.
- CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES, NO MECHANICAL EXCAVATION SHALL BE MADE OVER TELSTRA OR ELECTRICAL SERVICES, EXCAVATE BY HAND ONLY IN THESE AREAS.

DRAINAGE NOTES

- ALL PITS DEEPER THAN 1.2m SHALL HAVE STEP IRONS PROVIDED IN ACCORDANCE WITH COUNCIL'S STANDARDS.
- ALL DRAINAGE LINES THROUGH THE LOTS SHALL BE CONTAINED WITHIN THE EASEMENTS AND CONFORM WITH COUNCIL'S STANDARDS.
- ALL DRAINAGE LINES ON HIGH SIDE AND UNDER ROADS SHALL BE BACKFILLED WITH SHARP SAND AND HAVE 3.0m OF AGRICULTURAL LINE WRAPPED IN AN APPROVED FILTER FABRIC, DISCHARGING INTO THE DOWNSTREAM PIT.
- SUBSOIL DRAINS SHALL BE CONSTRUCTED TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE.
- PRECAST KERB INLET LINTELS SHALL BE USED ON GULLY PITS. GRATES SHALL BE "WELDLOK" TYPE GG50D OR APPROVED EQUIVALENT.
- ON COMPLETION OF PIPE INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
- TRENCH WIDTHS ARE TO BE KEPT TO A MINIMUM, CONSISTENT WITH LAYING AND BEDDING OF THE RELEVANT SERVICE AND CONSTRUCTION PERSONNEL ACCESS WAYS AND PITS. REFER TO AUTHORITIES STANDARDS FOR MINIMUM TRENCH WIDTHS. STANDARD TRENCH WIDTHS AND THE DIMENSIONS OF UNSUPPORTED TRENCHES. SUPPORT EXCAVATIONS TO THE REQUIREMENTS OF THE CONSTRUCTION SAFETY REGULATIONS 1950, UNDER THE CONSTRUCTION SAFETY ACT 1912 (AS AMENDED)
- PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH AS3500.3:2021 PLUMBING AND DRAINAGE - STORMWATER DRAINAGE STANDARD UNLESS OTHERWISE SPECIFIED BE THE LOCAL COUNCIL OR AUTHORITY.
- PIT SIZES IN ACCORDANCE WITH AS3500.3:2021 AND / OR COUNCIL REQUIREMENTS.
- IF A PIT IS SHOWN ON THE KERB ALIGNMENT IT IS REQUIRED TO BE CONSTRUCTED AS A KERB INLET PIT UNLESS OTHERWISE NOTED.
- BACKFILL TRENCHES IN ACCORDANCE WITH COUNCIL REQUIREMENTS WITHOUT DELAY FOR THE SECTION OF PIPE THAT HAS BEEN COMPLETED AND APPROVED, IF POSSIBLE ON THE SAME WORKING DAY.

STRUCTURAL NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
 - CONCRETE QUALITY SHALL BE AS SPECIFIED AND SHALL BE VERIFIED BY TESTS.
 - ALL CONCRETE UNLESS OTHERWISE NOTED SHALL HAVE A SLUMP OF 80mm AT POINT OF PLACEMENT, A MAXIMUM AGGREGATE SIZE OF 20mm AND STRENGTH AS SPECIFIED. NO WATER SHALL BE ADDED TO THE MIX PRIOR TO OR DURING THE PLACEMENT.
 - ALL REINFORCEMENT SPECIFIED IS GRADE D500 UNLESS NOTED OTHERWISE.
 - REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION.
 - TOP REINFORCEMENT IS TO BE CONTINUOUS ON SUPPORTS. BOTTOM REINFORCEMENT TO BE LAPPED AT SUPPORTS.
 - WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON STRUCTURAL DRAWINGS.
 - PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE ZONE OF CONCRETE COVER TO THE REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.
 - ALL REINFORCING BARS AND FABRIC SHALL COMPLY WITH AS4671.
 - REINFORCEMENT SYMBOLS:
 - N - GRADE 500N DEFORMED BAR (D500) NORMAL DUCTILITY
 - R - GRADE 250N PLAIN ROUND BAR (R250) NORMAL DUCTILITY
 - SL - GRADE 500L WELDED DEFORMED RIBBED MESH (D500) RECTANGULAR LOW DUCTILITY
- THE NUMBER IMMEDIATELY FOLLOWING THESE SYMBOLS IS THE NUMBER OF MILLIMETERS IN THE BAR DIAMETER.
- EXAMPLE:
8 N12-250, DENOTES 8, GRADE 500N DEFORMED BARS, 12mm DIAMETER AT 250 CTS.
- FABRIC REINFORCEMENT TO BE LAPPED 1 COMPLETE SQUARE + 25mm UNLESS NOTED OTHERWISE.
 - ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON BAR CHAIRS SPACED AT A MAXIMUM OF 750mm CENTRES BOTH WAYS UNDER THE ROD AND FABRIC REINFORCEMENT. REINFORCEMENT SHALL BE TIED AT ALTERNATIVE INTERSECTIONS.





COUNCIL NOTES

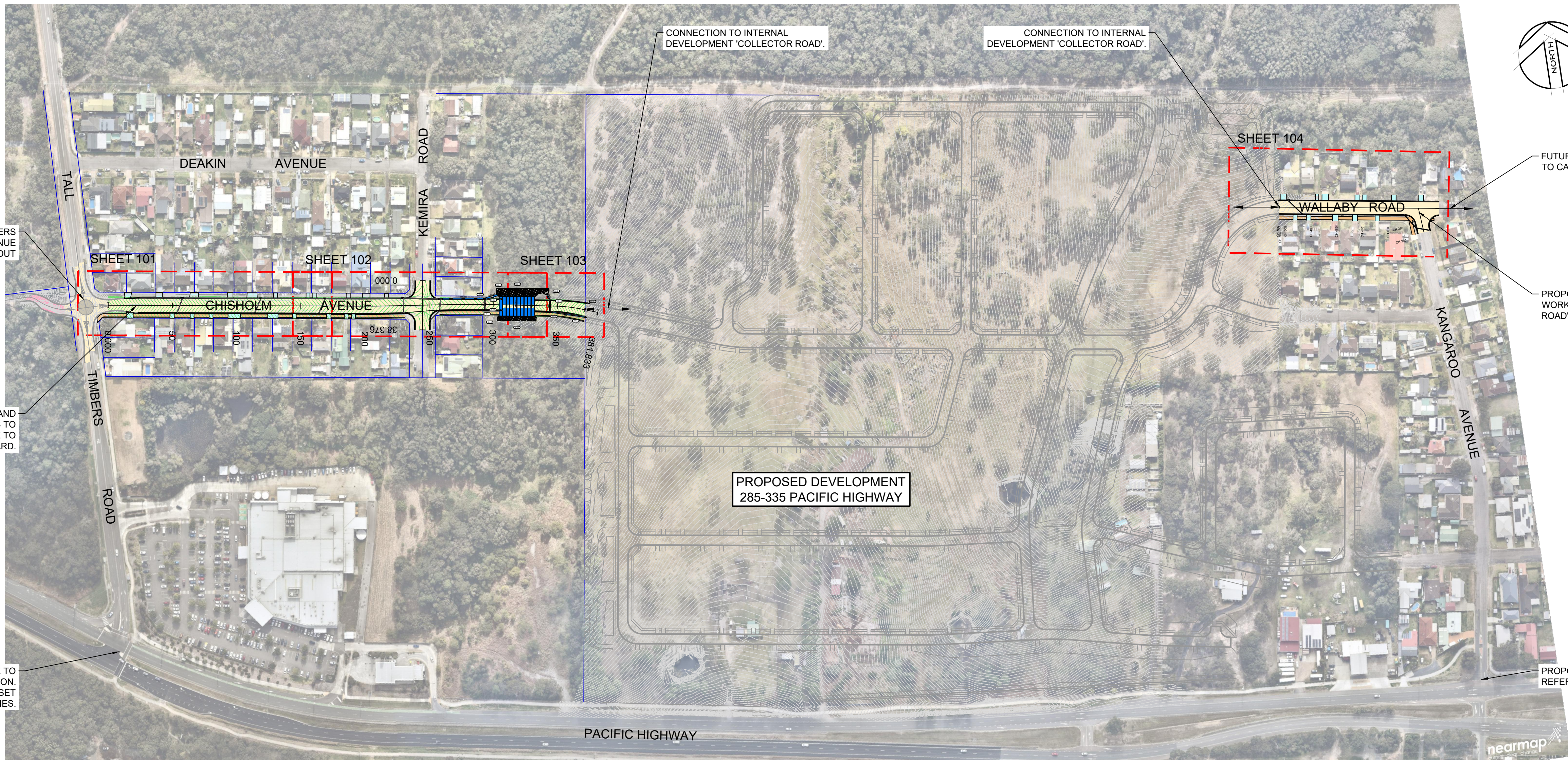
- WORKS CARRIED OUT TO CENTRAL COAST COUNCIL'S STANDARDS AND SPECIFICATIONS.

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
ROOF DRAINAGE LINE		
DRAINAGE LINE		
CONTOUR		
GRATED SURFACE INLET PIT		
SEALED PIT		
KERB INLET PIT		
PIT LABEL (LINE / No)	E - 1	1 - 5
SUBSOIL		
150mm KERB & GUTTER		
ROLL KERB		
KERB ONLY		
FLUSH KERB		
RETAINING WALL		
ROAD PAVEMENT		
FOOTPATH		
TREE TO BE REMOVED		
BATTERS		
LIMIT OF WORKS		LIMIT OF CONSTRUCTION
ELECTRICITY		
COMMUNICATIONS		
GAS		
SEWER		
WATER		
FENCE		

DEVELOPMENT NOTES

- THIS PLAN SET HAS BEEN PREPARED TO SHOW INDICATIVE ROAD AND COUNCIL ASSET UPGRADES TO SUPPORT A PROPOSED RESIDENTIAL DEVELOPMENT AT 285-335 PACIFIC HIGHWAY, LAKE MUNMORAH.
- THE PRELIMINARY WORKS AS SHOWN ON THIS PLAN SET ARE BASED UPON A COMBINATION OF LIDAR INFORMATION AND DETAILED SITE SURVEY. ADDITIONAL SURVEY IS REQUIRED AS PART OF THE NEXT STAGE OF THE DESIGN.
- THE PROPOSED WORKS AS SHOWN ARE INDICATIVELY ONLY AND HAVE BEEN PREPARED WITHOUT FULL DETAILED SITE SURVEY, GEOTECHNICAL INVESTIGATIONS, UTILITY INVESTIGATIONS, ETC.
- ALL WORKS SUBJECT TO CHANGE AS SITE INVESTIGATIONS ARE UNDERTAKEN AND THE DESIGN IS DEVELOPED.
- THE PROPOSED CULVERTS AT THE CHISHOLM AVENUE EXTENSION ARE INDICATIVE ONLY AND SUBJECT TO CONFIRMATION VIA STORMWATER MODELLING.
- ALL WORKS SHALL BE CONSTRUCTED TO CENTRAL COAST COUNCIL STANDARDS AND SPECIFICATIONS.
- UPGRADES OF EXISTING ROADS SHALL MAKE ALLOWANCE CONNECTION OF DOMESTIC STORMWATER DISCHARGE TO THE PROPOSED KERB AND/OR STORMWATER NETWORK.
- STORMWATER NETWORK UPGRADES AS SHOWN ARE INDICATIVE ONLY. NEXT STAGE OF DESIGN TO CONSIDER CATCHMENT AREAS, GUTTER FLOW WIDTHS ETC. ALL WORKS TO MEET THE REQUIREMENTS OF ARR2019 AND CENTRAL COAST COUNCIL'S DESIGN SPECIFICATION.
- THE REQUIREMENT FOR STREET TREES SHALL BE CONFIRMED BY COUNCIL AS PART OF THE NEXT STAGE OF THE DESIGN. STREET TREES, IF REQUIRED, SHALL BE INSTALLED IN ACCORDANCE WITH CENTRAL COAST COUNCIL'S STANDARD DRAWINGS.

REV	AMENDMENT	ISSUED	DATE	<div><div></div><div><div>SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4325 5255</div><div>HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555</div></div><div><div>www.brs.com.au mail@brs.com.au ABN: 26 134 067 842 ©2024</div><div>Client:<div><div>ALDA</div><div>ROSE</div><div>URCAN VILLAGER</div></div></div></div></div>	285-335 PACIFIC HIGHWAY, LAKE MUNMORAH EXTERNAL COUNCIL ROAD UPGRADES	Designed: SGB Drawn: DKH Checked: SGB	Scales: Plan - @A1 Horiz. - Vert. - X-Sect. - Datum: A.H.D.	Plan No. CC180099-03-011 File Ref. CC180099 REV. H
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022	GENERAL NOTES				
E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023					
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024					
G	REVISED ROUNDABOUT LAYOUT	SG	19/12/2024					
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024					



PLAN
SCALE 1:2000



REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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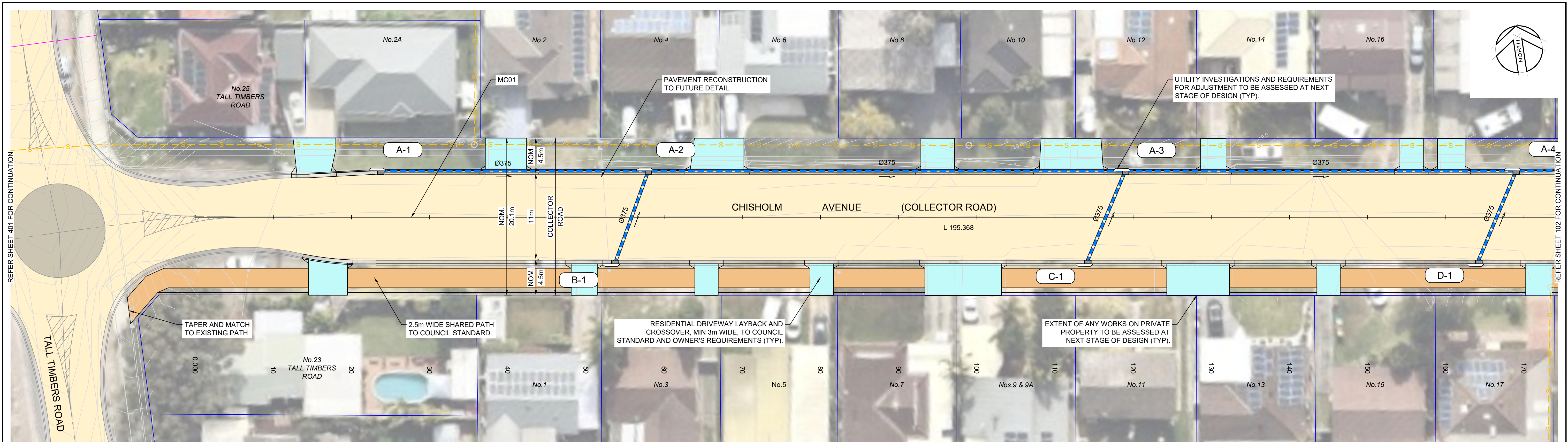
285-335 PACIFIC HIGHWAY, LAKE MUNMORAH
EXTERNAL COUNCIL ROAD UPGRADES

SITE PLAN

Designed: SGB
Drawn: DKH
Checked: SGB

Scales: Plan 1:2000
@A1
Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

Plan No.
CC180099-03-021
File Ref.
CC180099
REV.
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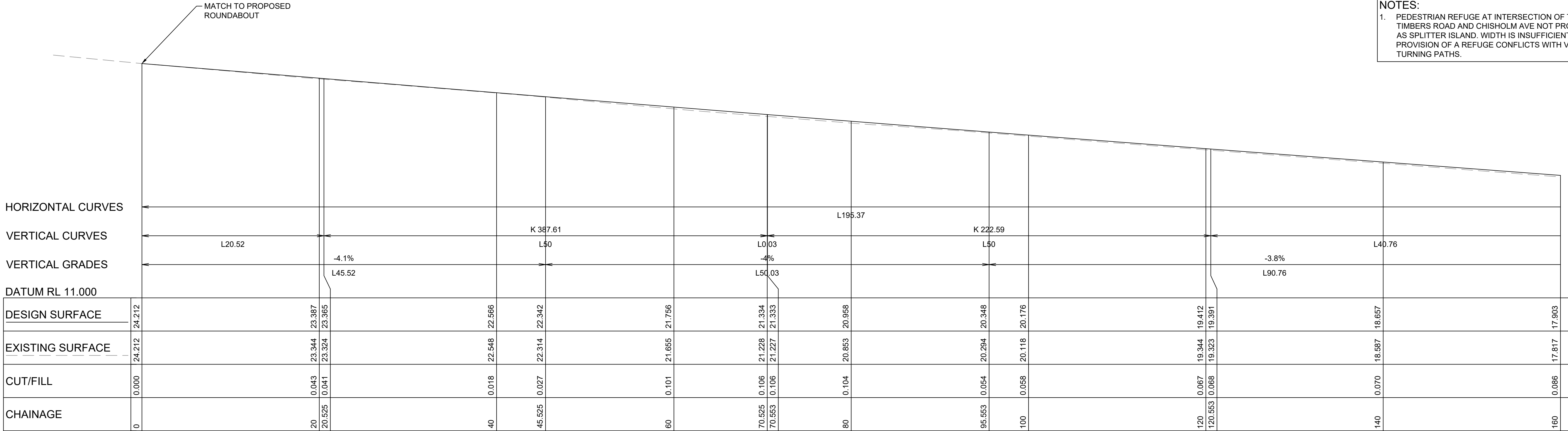
PLAN
SCALE 1:250

LEGEND	
	PROPOSED ROAD PAVEMENT
	PROPOSED DRIVEWAY CROSSOVER
	PROPOSED 2.5m SHARED FOOTPATH
	PROPOSED ROAD PAVEMENT BY CENTRAL COAST COUNCIL

REFER TO GENERAL NOTES ON PLAN 011.

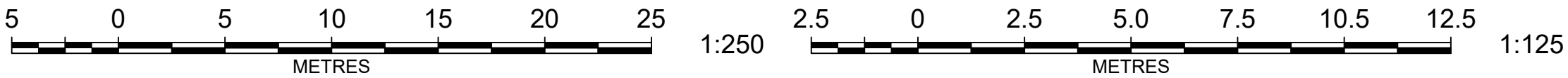
NOTES:

1. PEDESTRIAN REFUGE AT INTERSECTION OF TALL TIMBERS ROAD AND CHISHOLM AVE NOT PROPOSED AS SPLITTER ISLAND. WIDTH IS INSUFFICIENT AND PROVISION OF A REFUGE CONFLICTS WITH VEHICLE TURNING PATHS.



MC01 - LONGITUDINAL SECTION

HORZ SCALE 1:250
VERT SCALE 1:125



REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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EXTERNAL COUNCIL ROAD UPGRADES

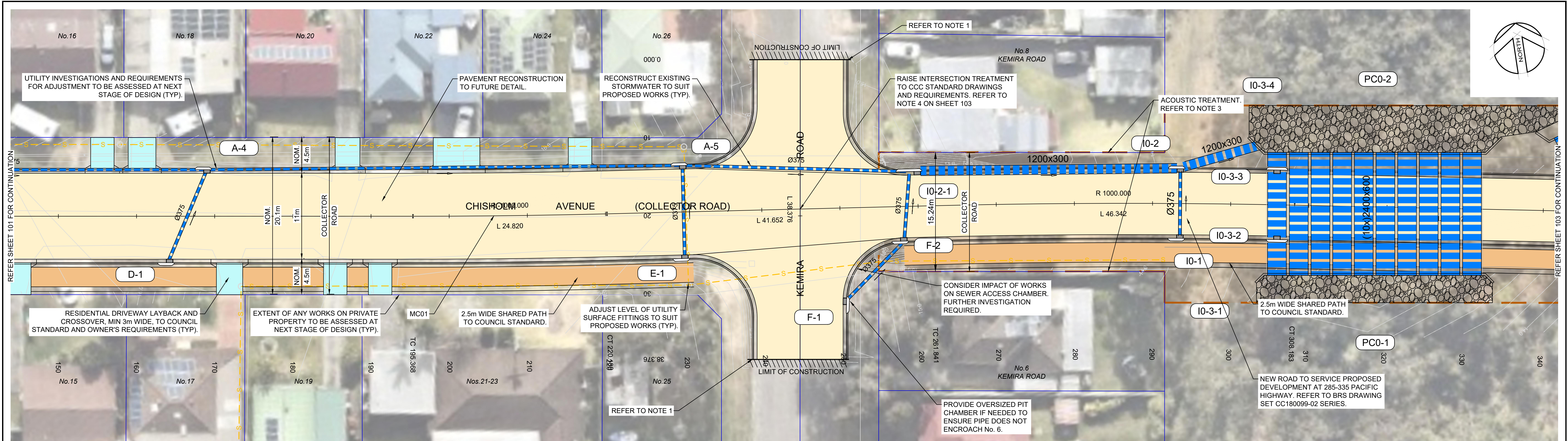
MC01 DETAIL PLAN & LONGITUDINAL SECTION SHEET 1

Designed: SGB
Drawn: DKH
Checked: SGB

Scales: Plan 1:250
Horiz. 1:250
Vert. 1:125
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-03-101
File Ref.
CC180099
REV.
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PLAN
SCALE 1:250

- BCAR BOUNDARY - RETAINED AREA
- BCAR BOUNDARY - DISTURBED AREA

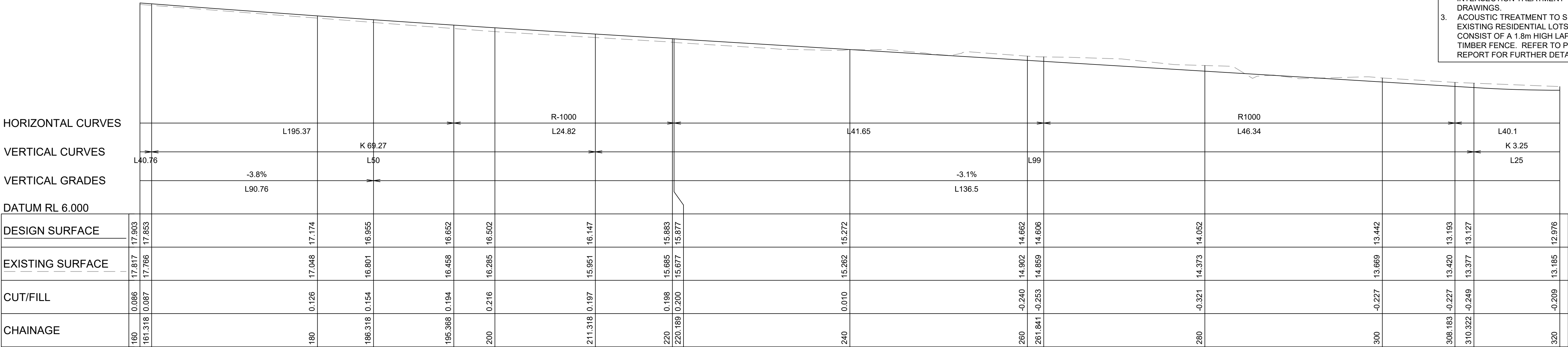
LEGEND

- PROPOSED ROAD PAVEMENT
- PROPOSED DRIVEWAY CROSSOVER
- PROPOSED 2.5m SHARED FOOTPATH
- PROPOSED ROAD PAVEMENT BY CENTRAL COAST COUNCIL

REFER TO GENERAL NOTES ON PLAN 011.

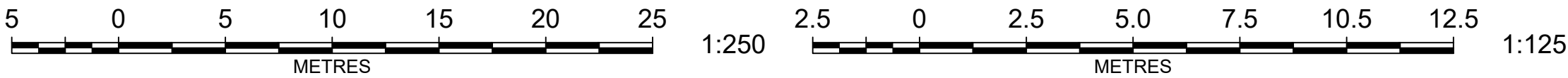
NOTES:

- INDICATIVE EXTENTS OF RECONSTRUCTION OF KEMIRA ROAD ARE SHOWN AND ARE TO BE CONFIRMED WITH CONSIDERATION TO LEVELS, CONNECTIONS, PAVEMENT RATE OF ROTATION ETC AS PART OF THE NEXT STAGE OF THE DESIGN.
- INTERSECTION OF CHISOLM AVENUE AND KEMIRA ROAD TO BE RECONSTRUCTED WITH A RAISED INTERSECTION TREATMENT TO CCC STANDARD DRAWINGS.
- ACOUSTIC TREATMENT TO SIDE BOUNDARY OF EXISTING RESIDENTIAL LOTS IS PROPOSED TO CONSIST OF A 1.8m HIGH LAPPED AND CAPPED TIMBER FENCE. REFER TO PROJECT ACOUSTIC REPORT FOR FURTHER DETAILS.



MC01 - LONGITUDINAL SECTION

HORZ SCALE 1:250
VERT SCALE 1:125



REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
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285-335 PACIFIC HIGHWAY, LAKE MUNMORAH
EXTERNAL COUNCIL ROAD UPGRADES

MC01 DETAIL PLAN & LONGITUDINAL SECTION SHEET 2

Designed: SGB
Drawn: DKH
Checked: SGB

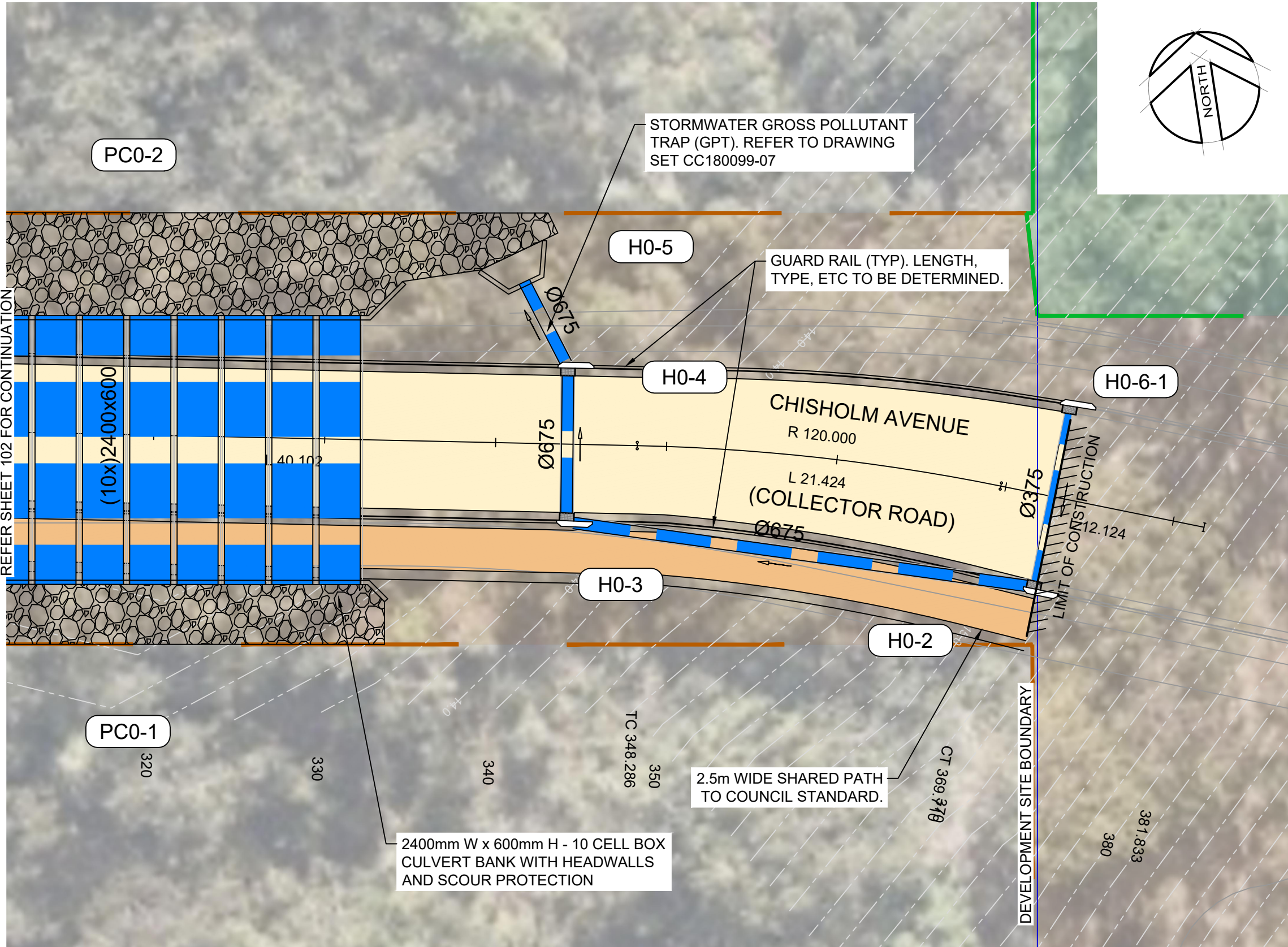
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Horiz. 1:250
Vert. 1:125
X-Sept. -

Datum: A.H.D.

Plan No.
CC180099-03-102

File Ref.
CC180099

REV.
H

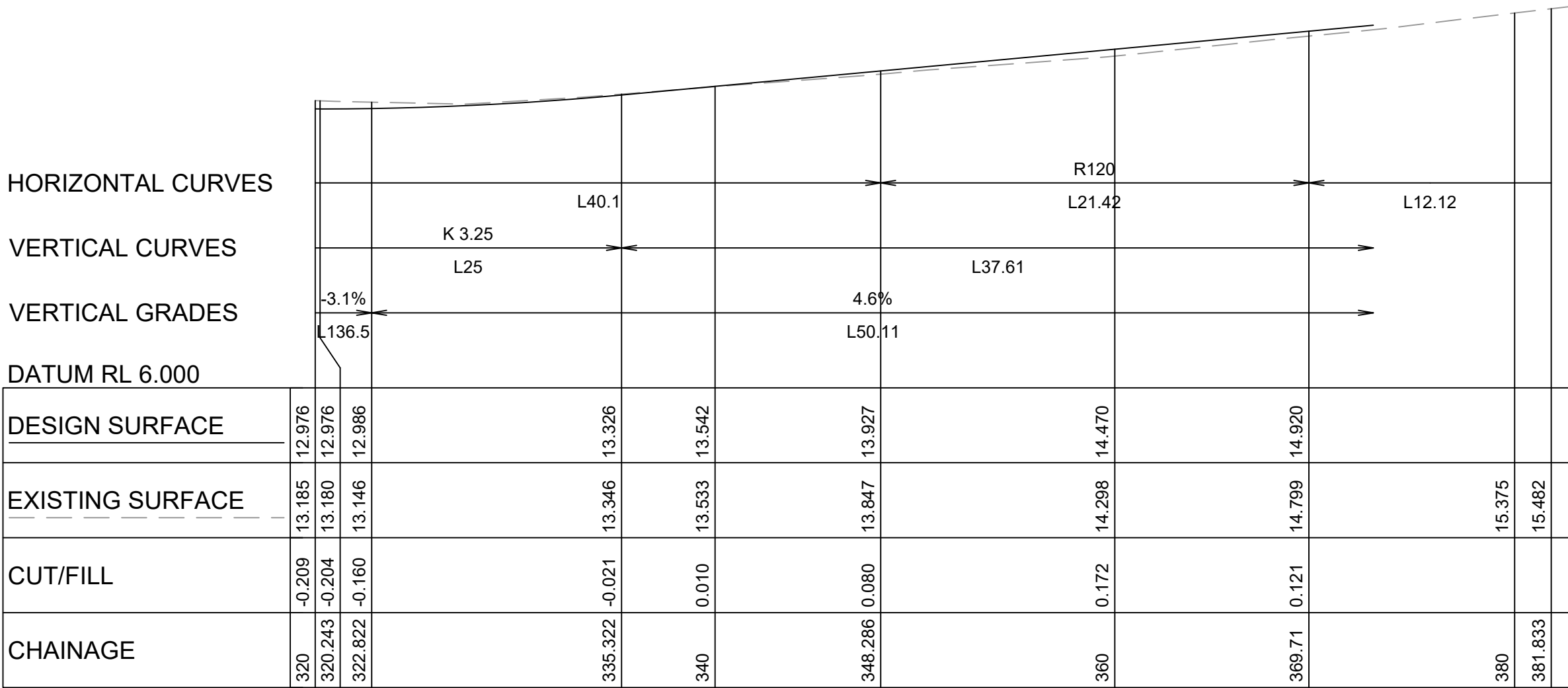


PLAN
SCALE 1:250

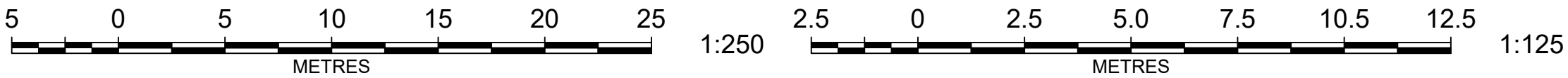
- BCAR BOUNDARY - RETAINED AREA
- BCAR BOUNDARY - DISTURBED AREA

- LEGEND
- PROPOSED ROAD PAVEMENT
 - PROPOSED DRIVEWAY CROSSOVER
 - PROPOSED 2.5m SHARED FOOTPATH
 - PROPOSED ROAD PAVEMENT BY CENTRAL COAST COUNCIL

REFER TO GENERAL NOTES ON PLAN 011.



MC01 - LONGITUDINAL SECTION
HORZ SCALE 1:250
VERT SCALE 1:125



REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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MC01 DETAIL PLAN & LONGITUDINAL SECTION SHEET 3

Designed: SGB
Drawn: DKH
Checked: SGB

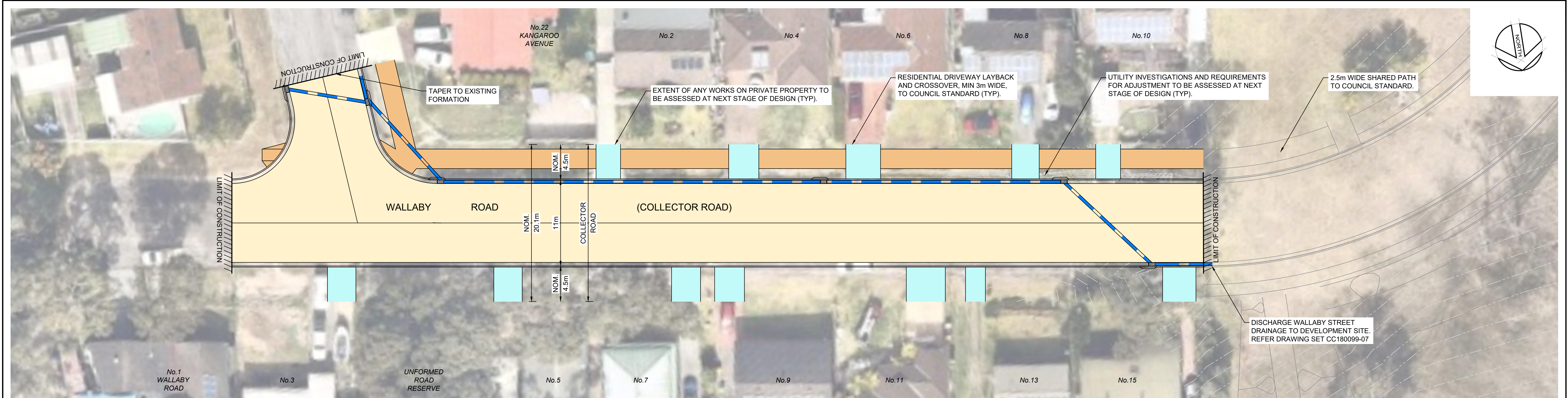
Scales: Plan 1:250
@A1 Horiz. 1:250
Vert. 1:125
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-03-103

File Ref.
CC180099

REV.
H







PLAN
SCALE 1:250

LEGEND

	PROPOSED ROAD PAVEMENT
	PROPOSED DRIVEWAY CROSSOVER
	PROPOSED 2.5m SHARED FOOTPATH
	PROPOSED ROAD PAVEMENT BY CENTRAL COAST COUNCIL

REFER TO GENERAL NOTES ON PLAN 011.



REV	AMENDMENT	ISSUED	DATE															
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022	 <div>BARKER RYAN STEWART</div> <div>ENGINEERING PLANNING PROJECT MANAGEMENT SURVEYING CERTIFICATION</div>	SYDNEY P: 02 9659 0005 CENTRAL COAST P: 02 4326 5255		HUNTER P: 02 4966 8388 S.E. QLD P: 07 5582 6555		Client:		   <div>285-335 PACIFIC HIGHWAY, LAKE MUNMORAH EXTERNAL COUNCIL ROAD UPGRADES</div> <div>MC02 DETAIL PLAN SHEET 1</div>		Designed: SGB		Scales: Plan 1:250		Plan No.	
E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023						@A1				Horiz. -		CC180099-03-104			
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024										Vert. -		REV.			
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024										X-Sect. -		File Ref.			
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024												CC180099			
										Datum: A.H.D.		REV. H						

NOTES:

- EXISTING ROAD INFORMATION FOR TALL TIMBERS AND POWER POLE TRACED FROM AERIAL. FINAL LOCATION OF INTERSECTION UPGRADE DESIGN SUBJECT TO DETAIL SURVEY.
- SHOWN LIMIT OF CONSTRUCTION IS INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN.
- SIZE AND GEOMETRY OF SPLITTER ISLANDS, ENTRY TRAVEL PATHS ETC REQUIRES FURTHER DEVELOPMENT AS PART OF THE NEXT STAGE OF THE DESIGN.

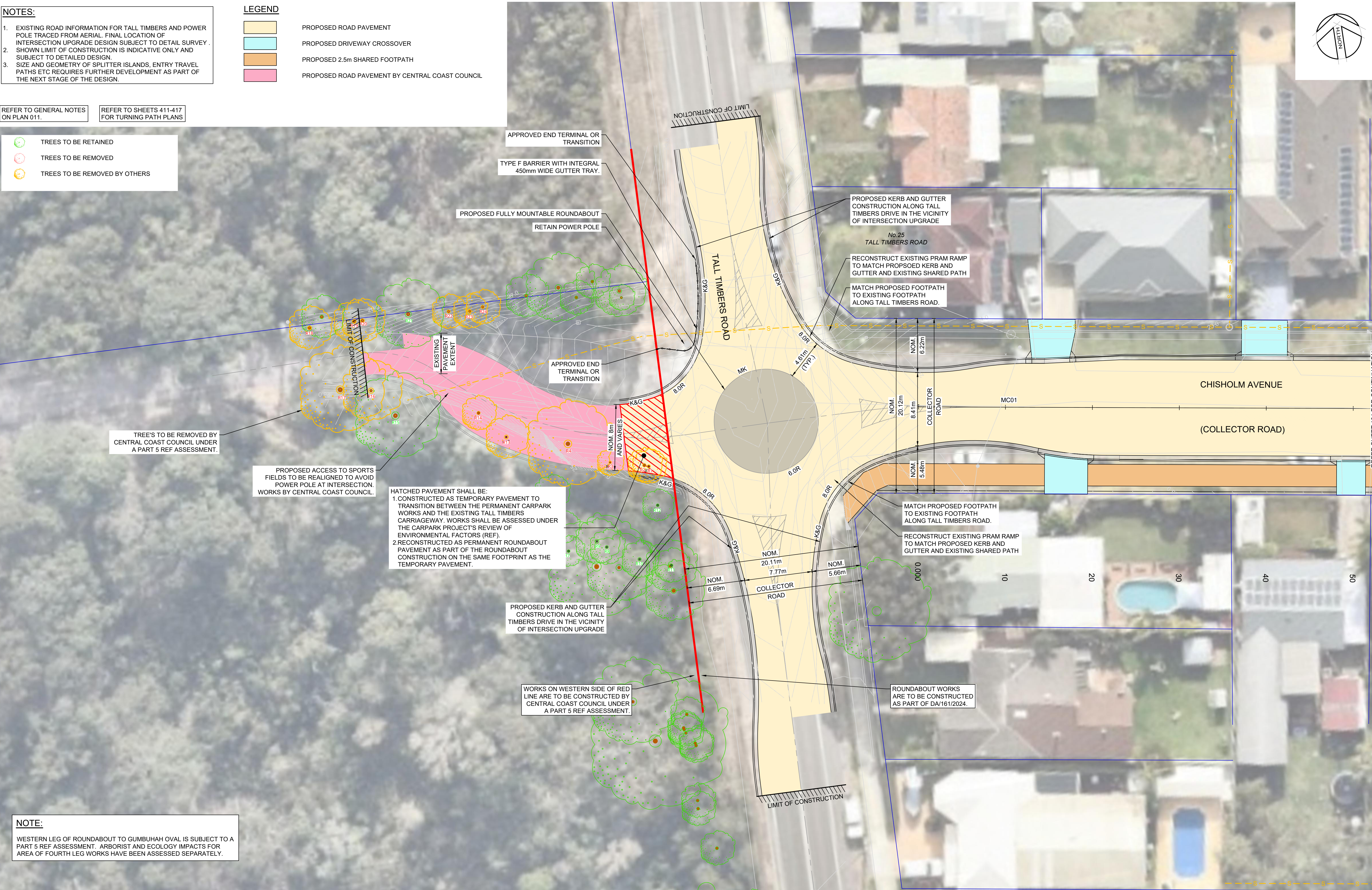
LEGEND

- PROPOSED ROAD PAVEMENT
- PROPOSED DRIVEWAY CROSSOVER
- PROPOSED 2.5m SHARED FOOTPATH
- PROPOSED ROAD PAVEMENT BY CENTRAL COAST COUNCIL

REFER TO GENERAL NOTES ON PLAN 011.

REFER TO SHEETS 411-417 FOR TURNING PATH PLANS

- TREES TO BE RETAINED
- TREES TO BE REMOVED
- TREES TO BE REMOVED BY OTHERS



NOTE:

WESTERN LEG OF ROUNDABOUT TO GUMBUHAH OVAL IS SUBJECT TO A PART 5 REF ASSESSMENT. ARBORIST AND ECOLOGY IMPACTS FOR AREA OF FOURTH LEG WORKS HAVE BEEN ASSESSED SEPARATELY.

PLAN
SCALE 1:200



REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
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INTERSECTION PLAN TALL TIMBERS ROAD AND CHISHOLM AVENUE

Designed: SGB
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -

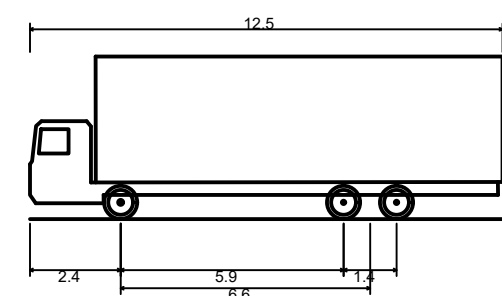
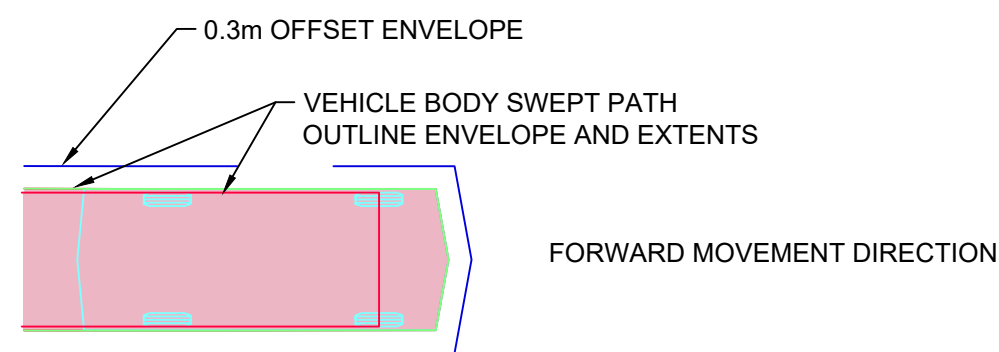
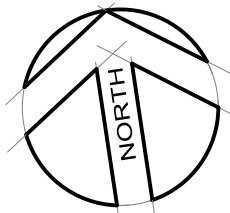
Datum: A.H.D.

Plan No.
CC180099-03-401

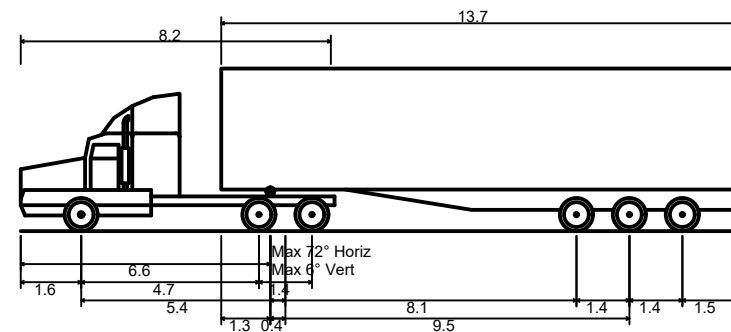
File Ref.
CC180099

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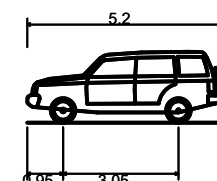
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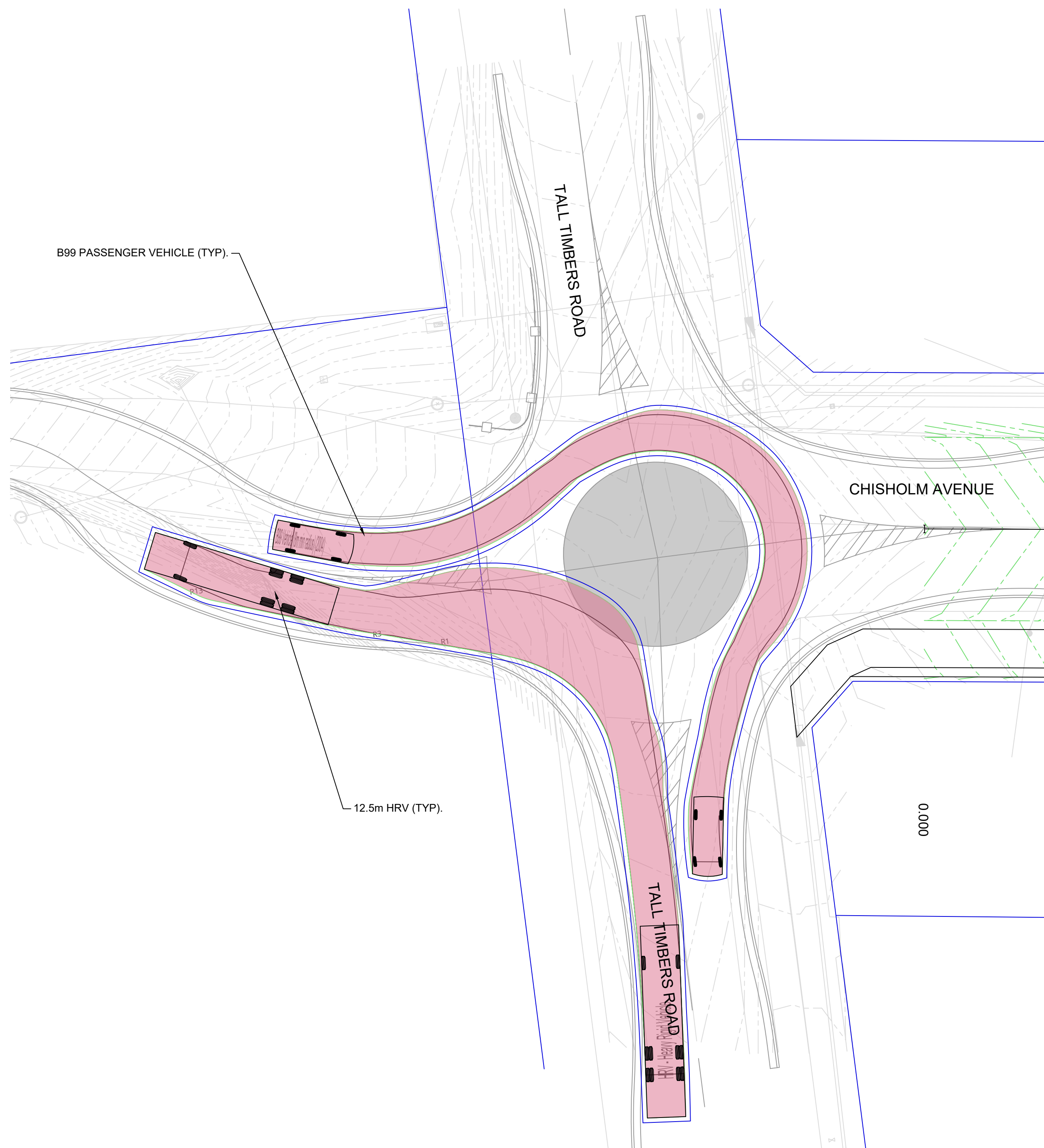
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



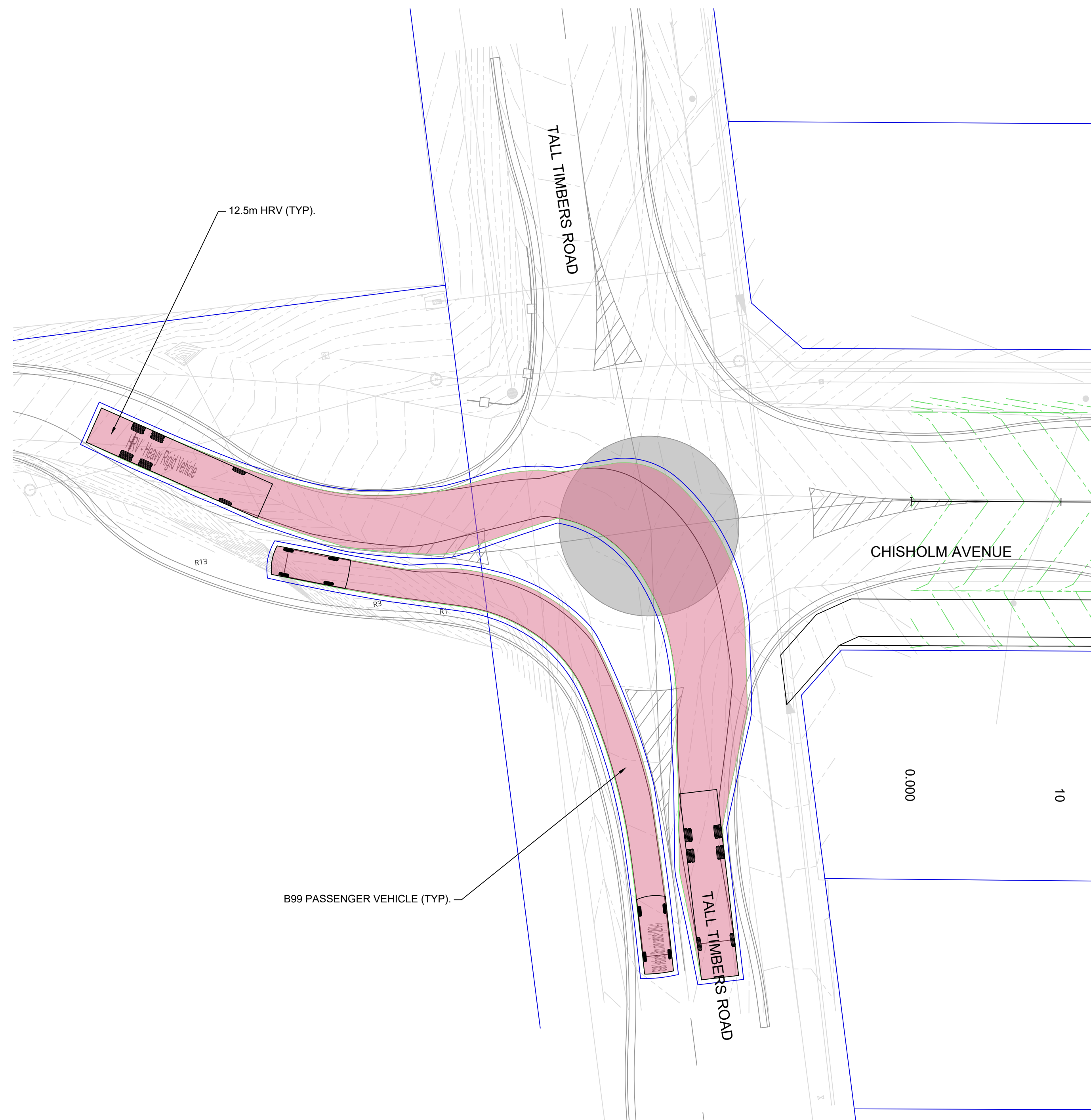
AV - Articulated Vehicle
Overall Length 19.000m
Overall Width 2.500m
Overall Body Height 4.301m
Min Body Ground Clearance 0.418m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



B99 Vehicle (Realistic min radius) (2004)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.878m
Min Body Ground Clearance 0.272m
Track Width 1.640m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 6.250m



PLAN
SCALE 1:200



PLAN
SCALE 1:200



REFER TO GENERAL NOTES ON SHEET 011.

REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
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G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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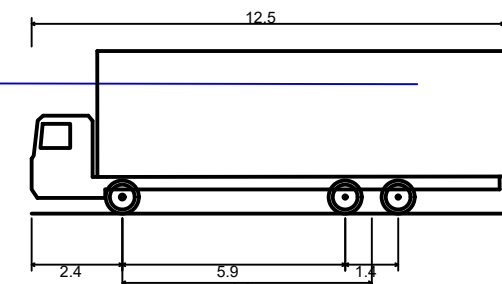
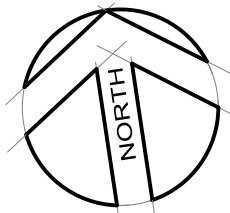
TURNING PATHS FOR ROUNDABOUT SHEET 1

Designed: SGB
Drawn: DKH
Checked: SGB

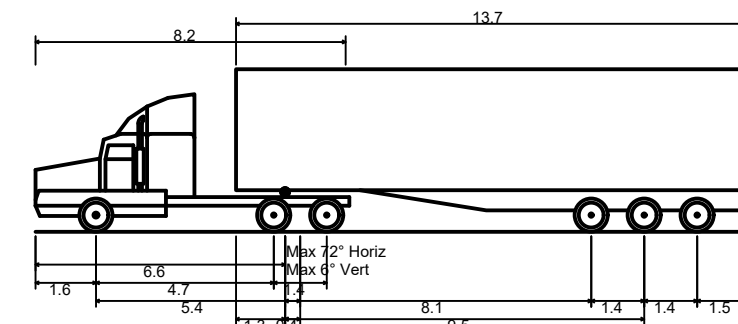
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@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

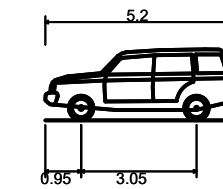
Plan No.
CC180099-03-411
File Ref.
CC180099
REV.
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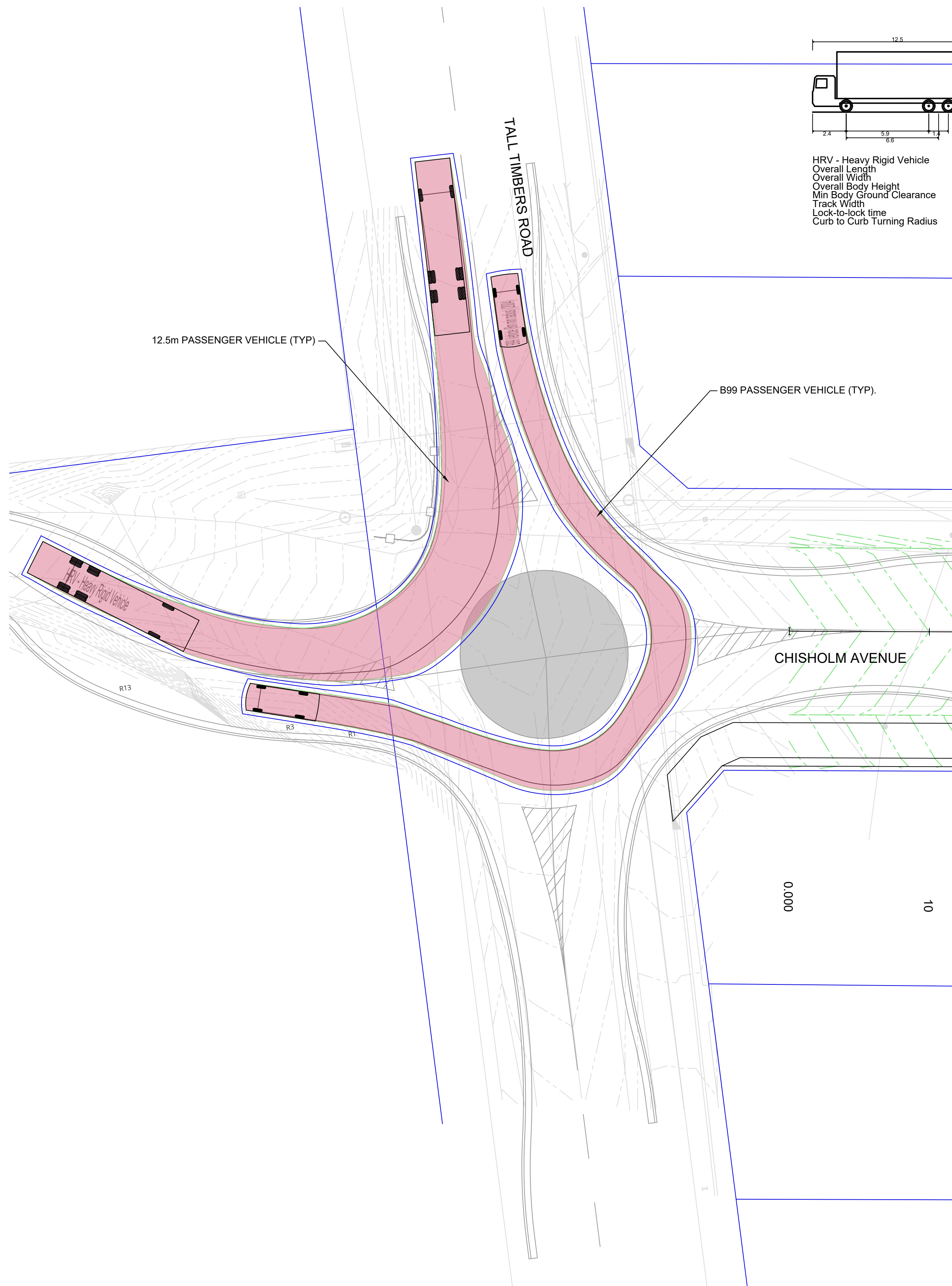
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.400m
Overall Body Height 5.900m
Min Body Ground Clearance 1.200m
Track Width 2.400m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



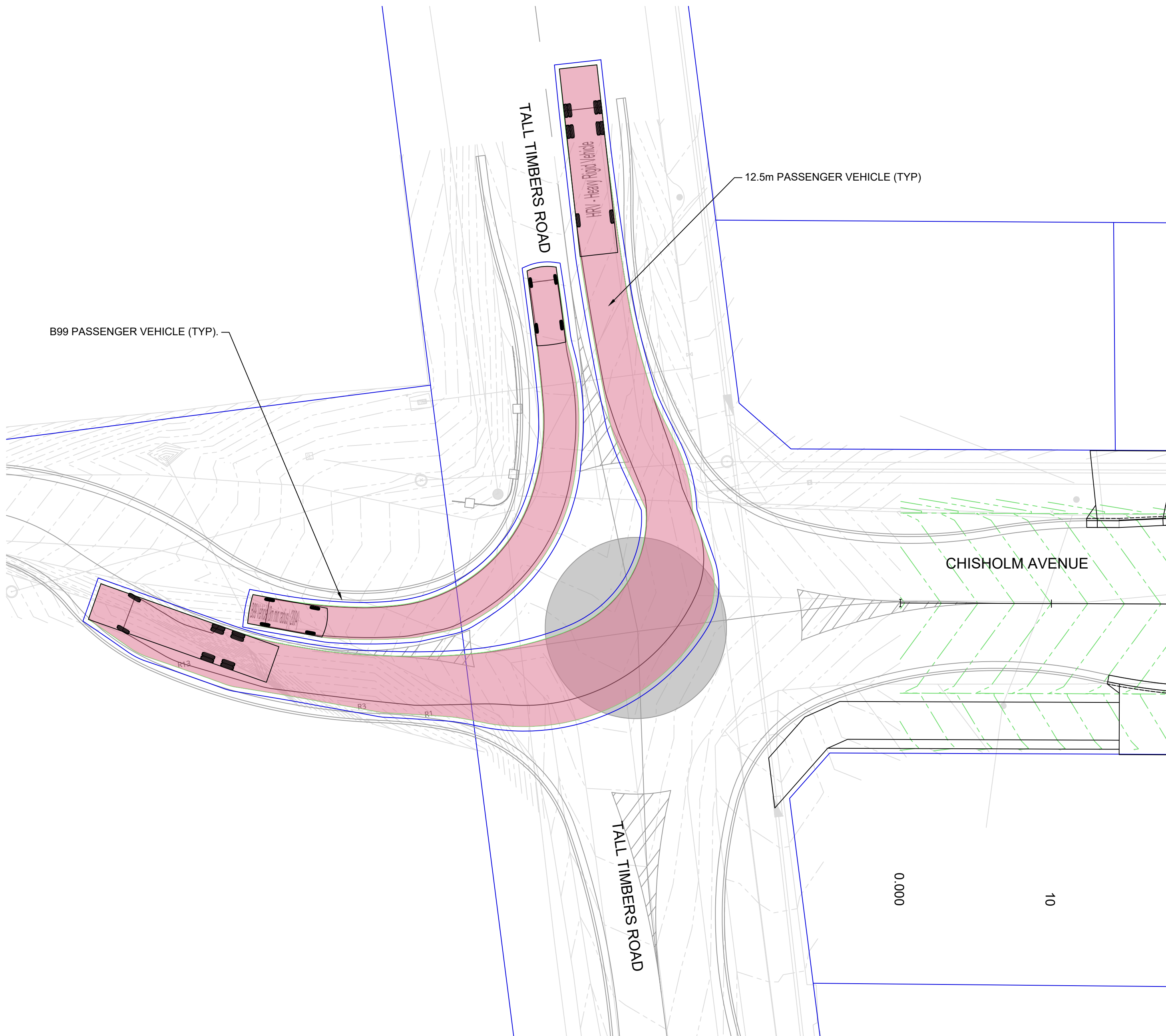
AV - Articulated Vehicle
Overall Length 19.000m
Overall Width 2.400m
Overall Body Height 4.301m
Min Body Ground Clearance 0.418m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



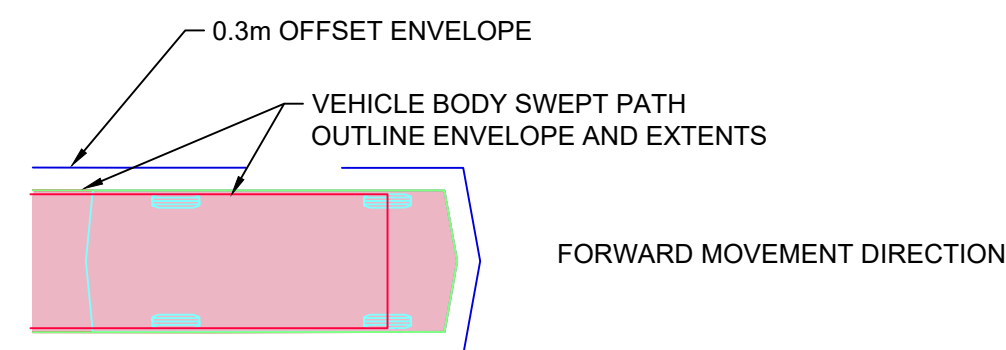
B99 Vehicle (Realistic min radius) (2004)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.878m
Min Body Ground Clearance 0.272m
Track Width 1.840m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 6.250m



PLAN
SCALE 1:200



PLAN
SCALE 1:200



REFER TO GENERAL NOTES ON SHEET 011.

REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
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F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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TURNING PATHS FOR ROUNDABOUT SHEET 2

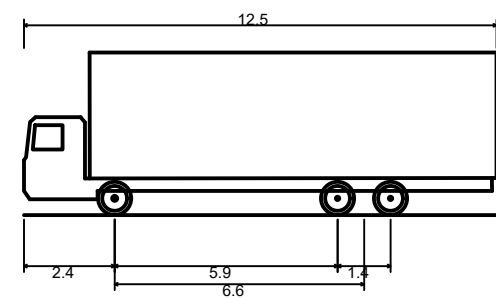
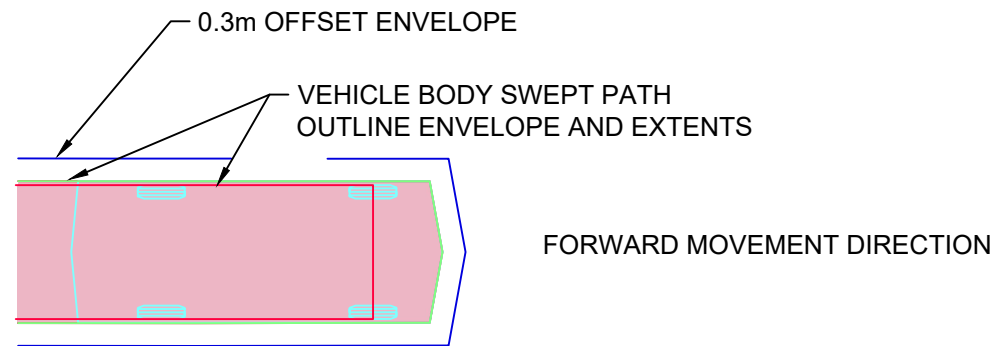
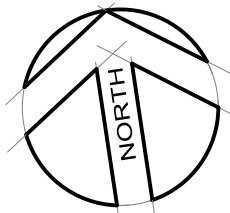
Designed: SGB
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -
Datum: A.H.D.

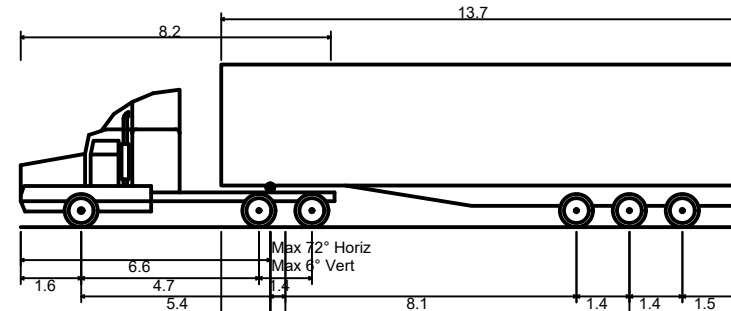
Plan No.
CC180099-03-412
File Ref.
CC180099
REV.
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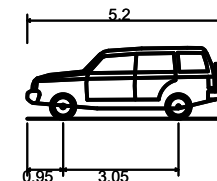
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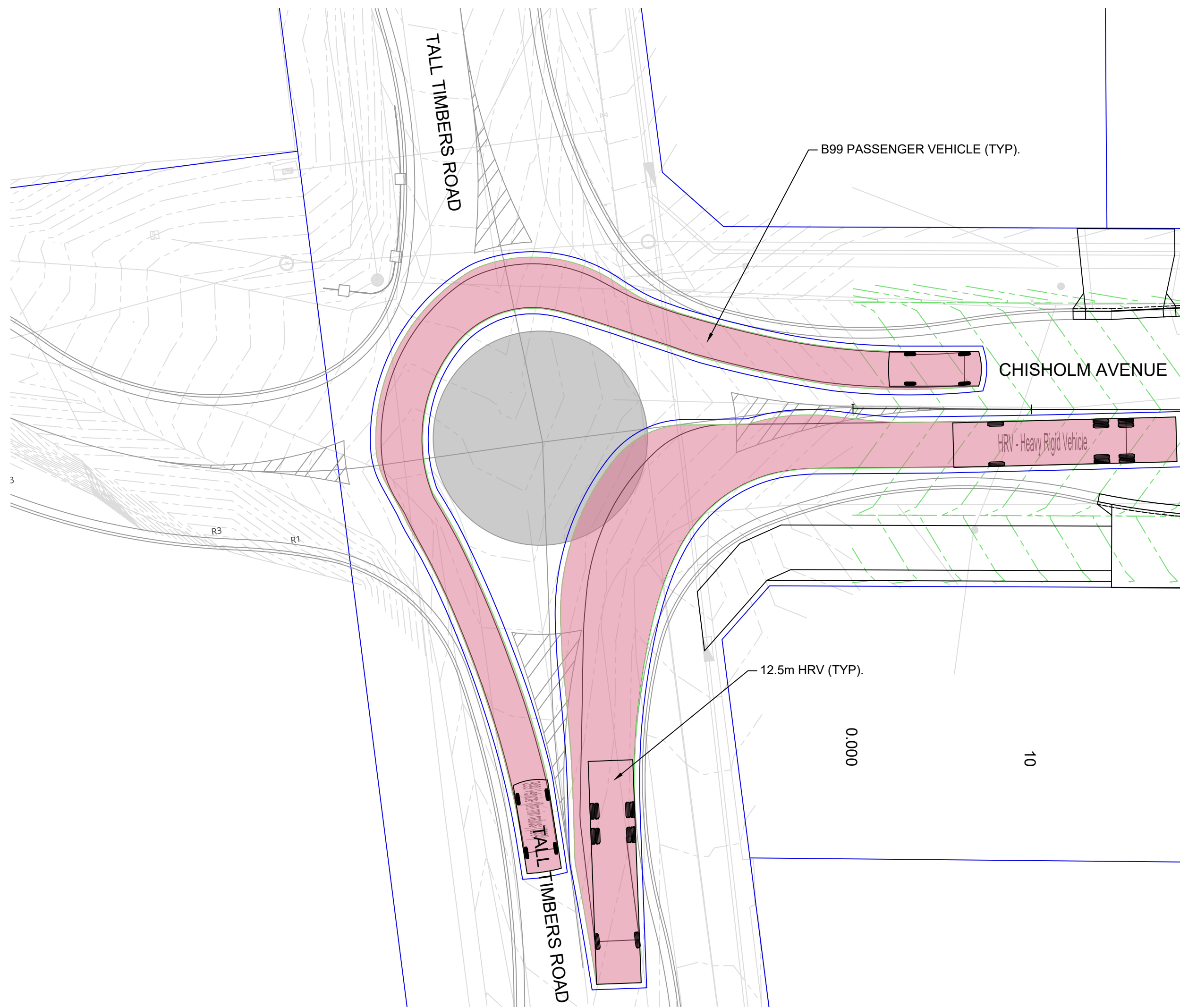
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



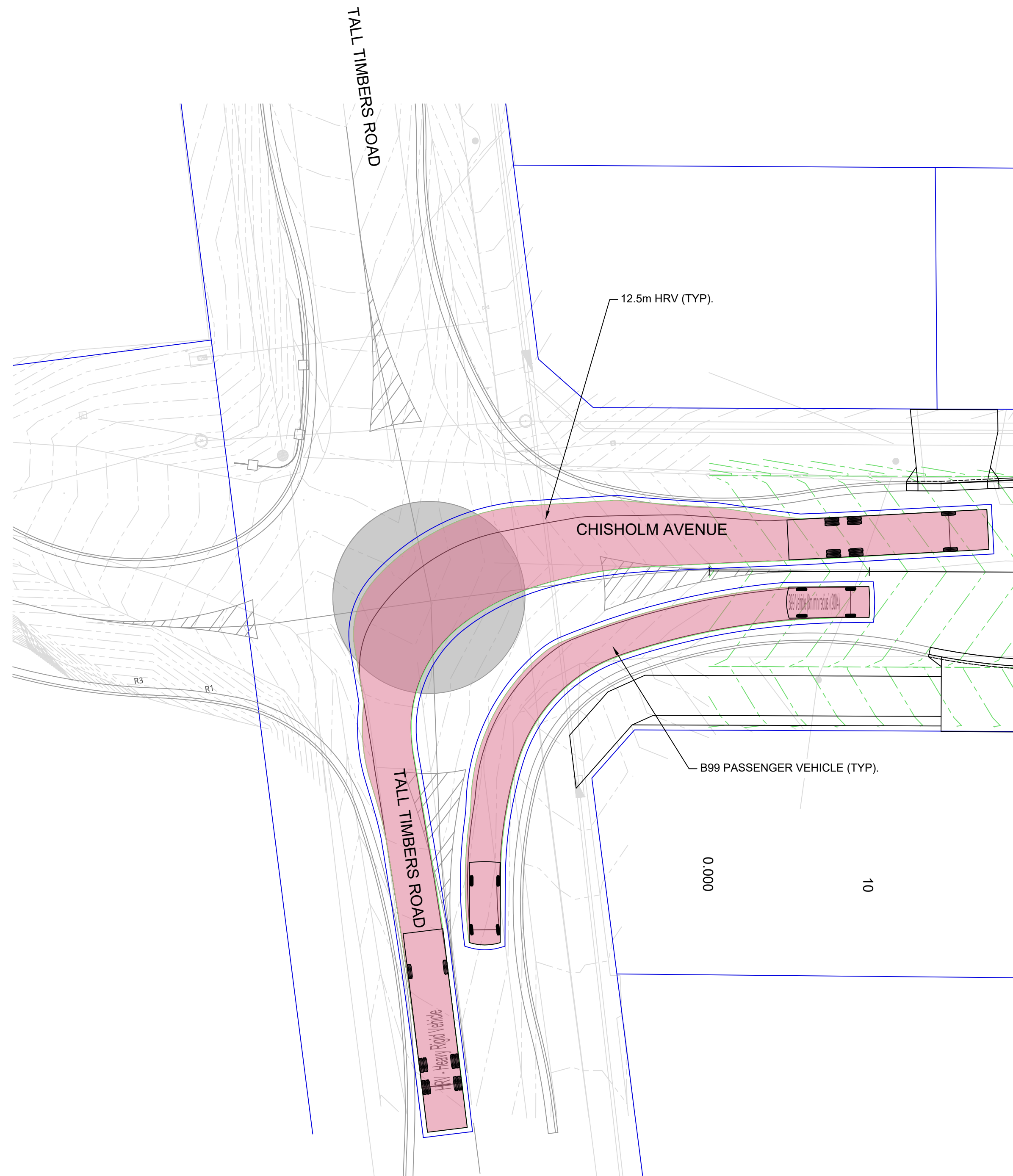
AV - Articulated Vehicle
Overall Length 19.000m
Overall Width 2.500m
Overall Body Height 4.301m
Min Body Ground Clearance 0.418m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



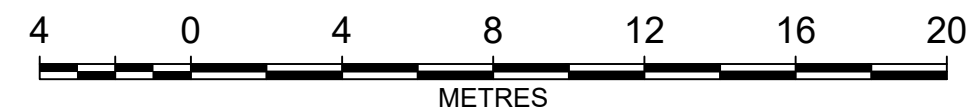
B99 Vehicle (Realistic min radius) (2004)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.878m
Min Body Ground Clearance 0.272m
Track Width 1.640m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 6.250m



PLAN
SCALE 1:200



PLAN
SCALE 1:200



REFER TO GENERAL NOTES ON SHEET 011.

REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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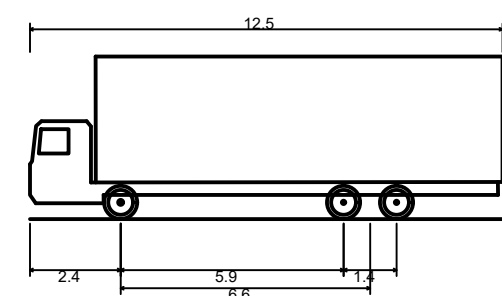
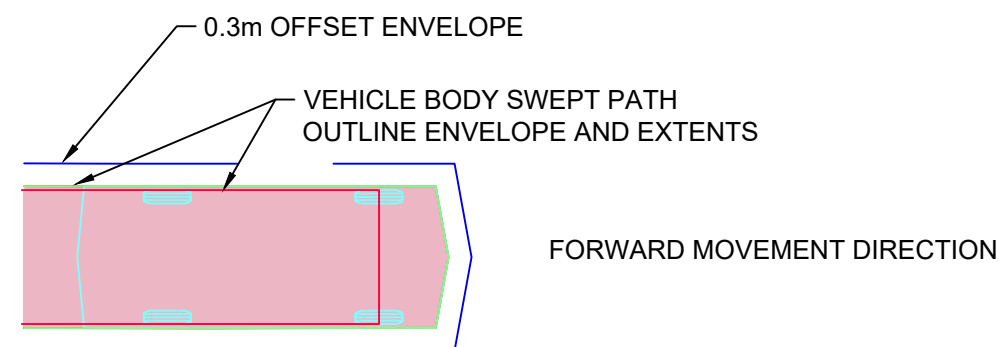
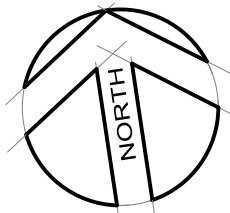
TURNING PATHS FOR ROUNDABOUT SHEET 3

Designed: SGB
Drawn: DKH
Checked: SGB

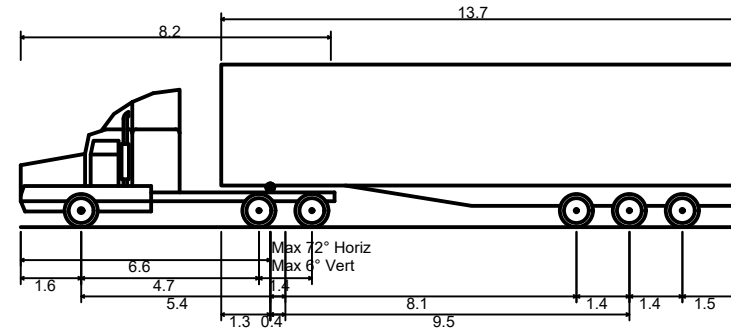
Scales: Plan 1:200
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Vert. -
X-Sect. -

Datum: A.H.D.

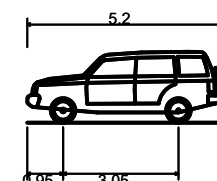
Plan No.
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File Ref.
CC180099
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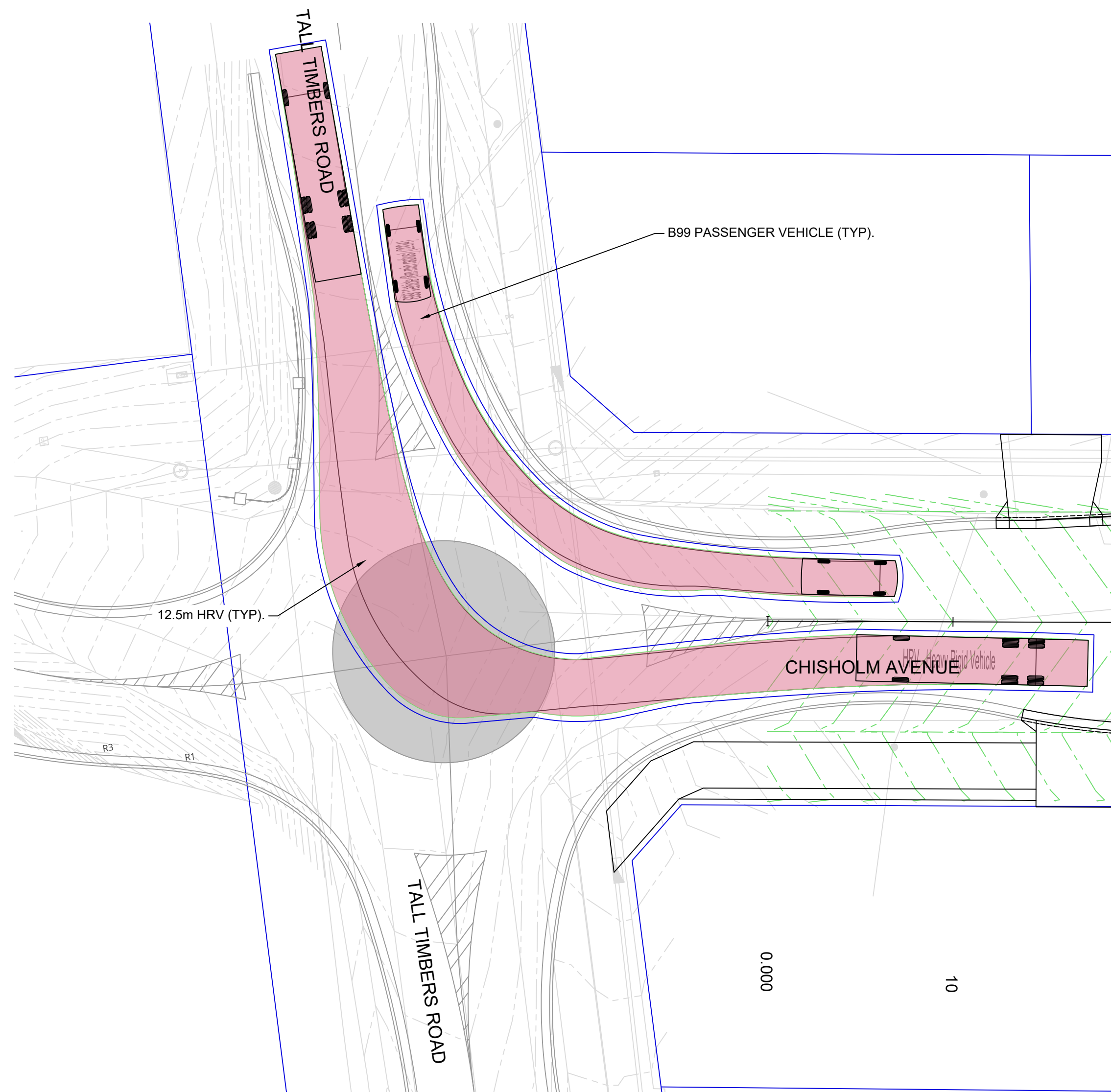
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



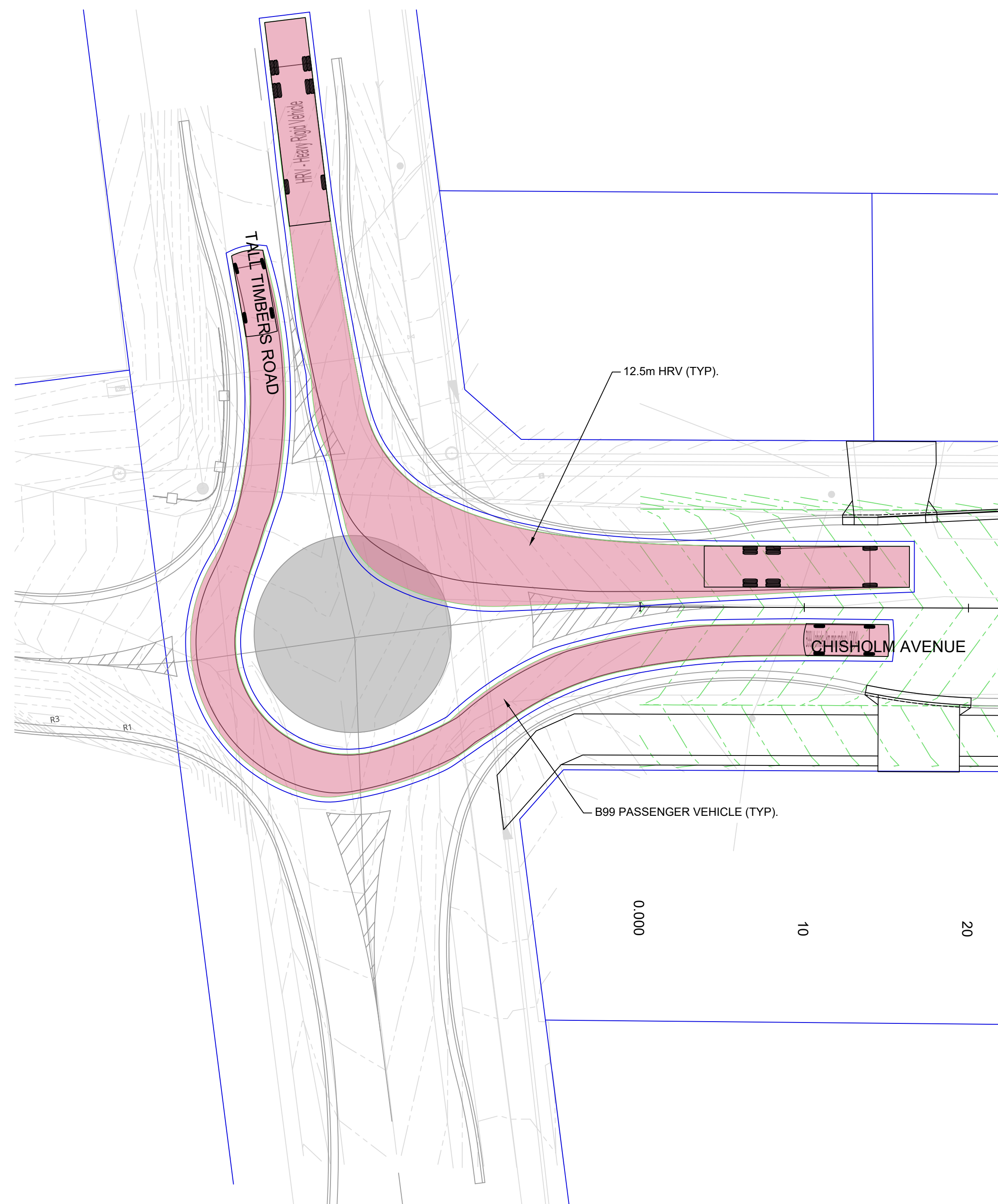
AV - Articulated Vehicle
Overall Length 19.000m
Overall Width 2.500m
Overall Body Height 4.301m
Min Body Ground Clearance 0.418m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



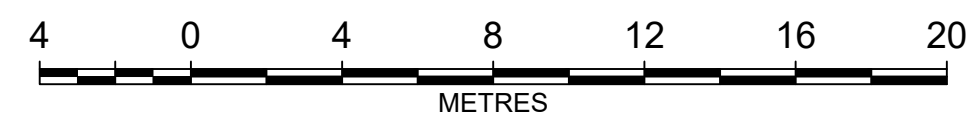
B99 Vehicle (Realistic min radius) (2004)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.878m
Min Body Ground Clearance 0.272m
Track Width 1.640m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 6.250m



PLAN
SCALE 1:200



PLAN
SCALE 1:200



REFER TO GENERAL NOTES ON SHEET 011.

REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
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G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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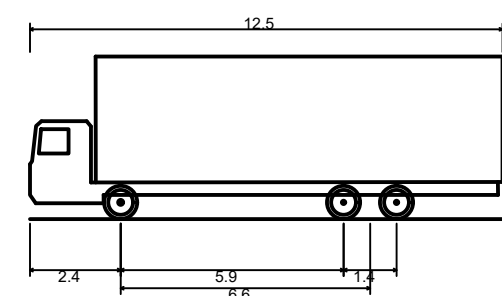
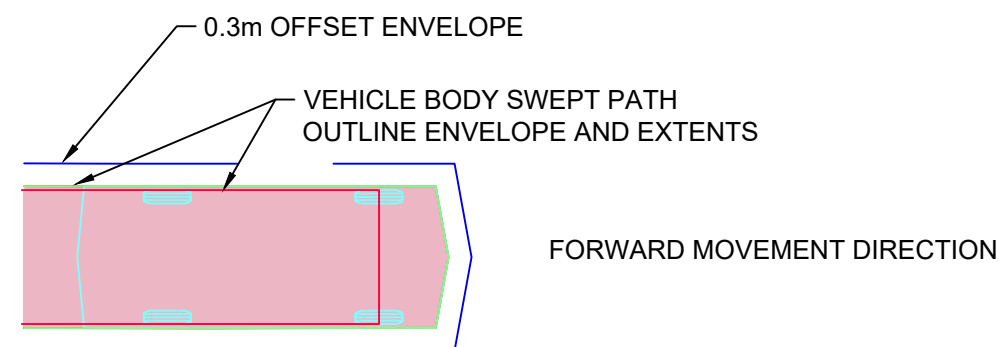
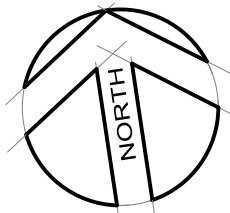
TURNING PATHS FOR ROUNDABOUT SHEET 4

Designed: SGB
Drawn: DKH
Checked: SGB

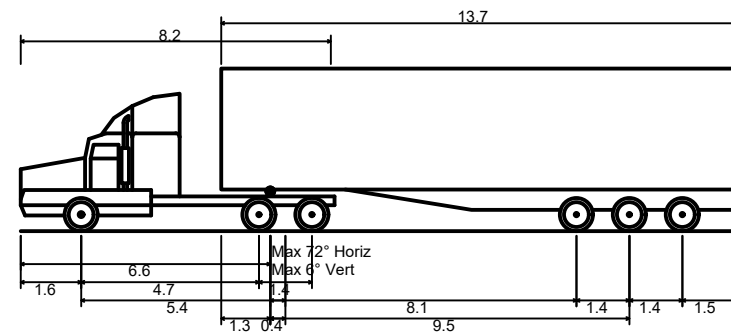
Scales: Plan 1:200
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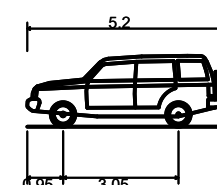
Plan No.
CC180099-03-414
File Ref.
CC180099
REV.
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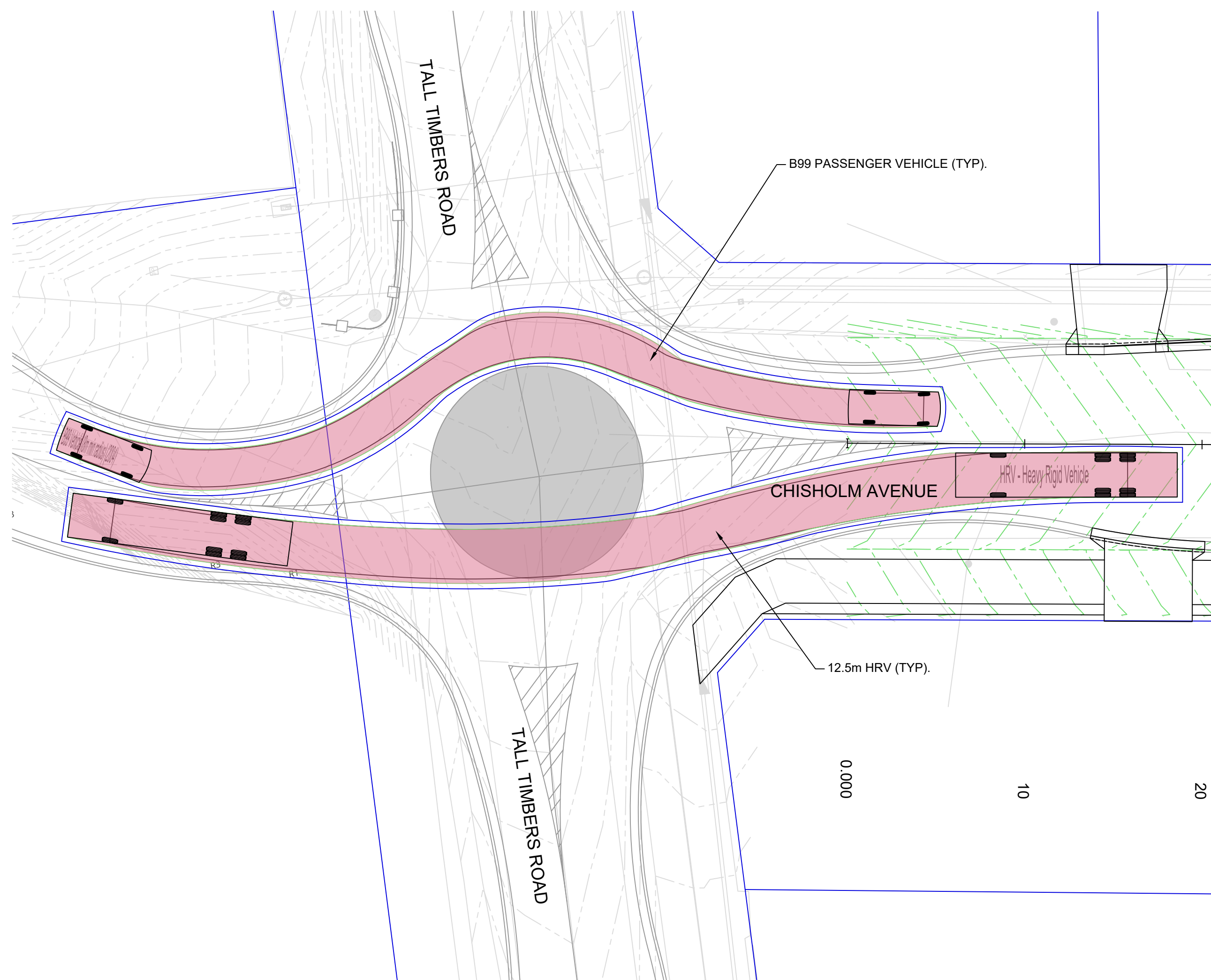
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



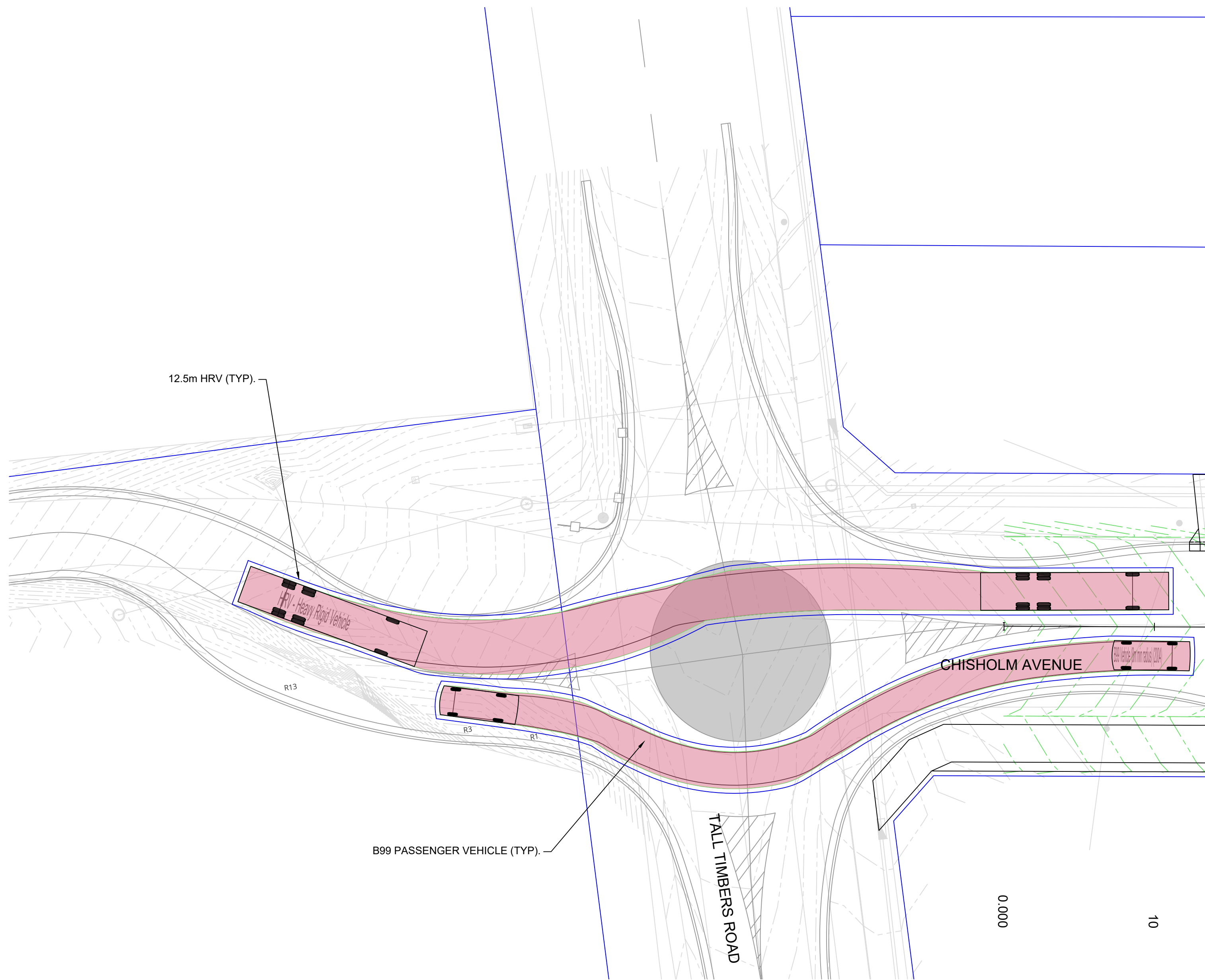
AV - Articulated Vehicle
Overall Length 19.000m
Overall Width 2.500m
Overall Body Height 4.301m
Min Body Ground Clearance 0.418m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



B99 Vehicle (Realistic min radius) (2004)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.878m
Min Body Ground Clearance 0.272m
Track Width 1.640m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 6.250m



PLAN
SCALE 1:200



PLAN
SCALE 1:200

REFER TO GENERAL NOTES ON SHEET 011.

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E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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EXTERNAL COUNCIL ROAD UPGRADES

TURNING PATHS FOR ROUNDABOUT SHEET 5

Designed: SGB
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -

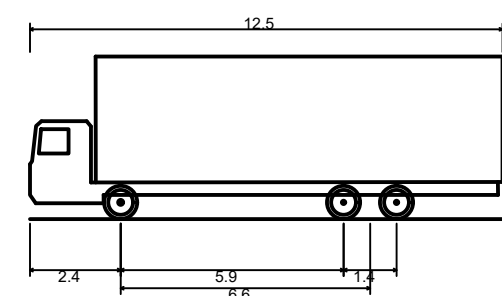
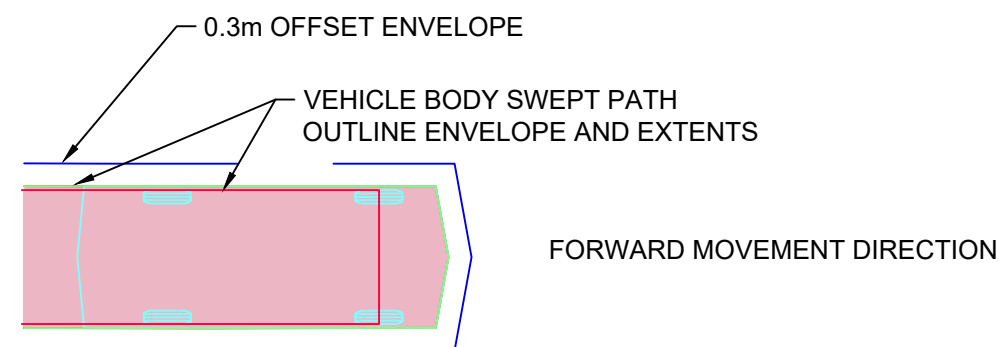
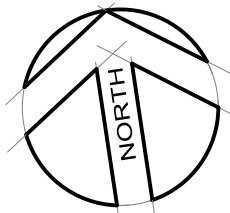
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Plan No.
CC180099-03-415

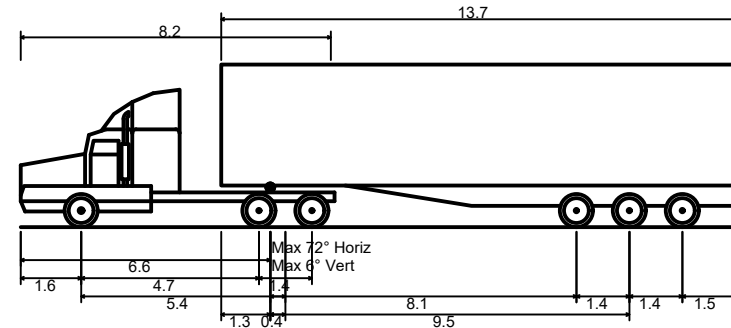
File Ref.
CC180099

REV.
H

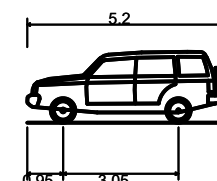




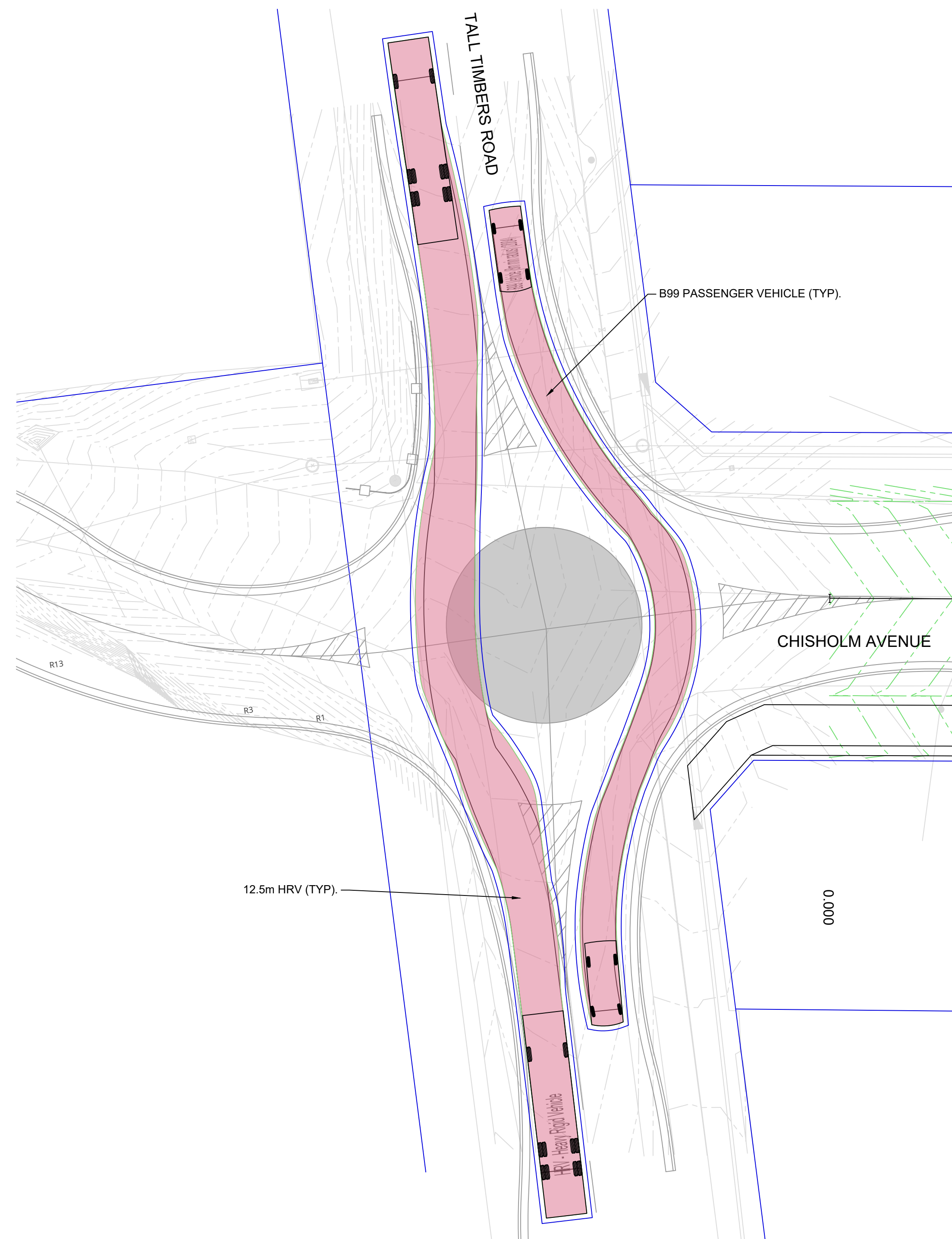
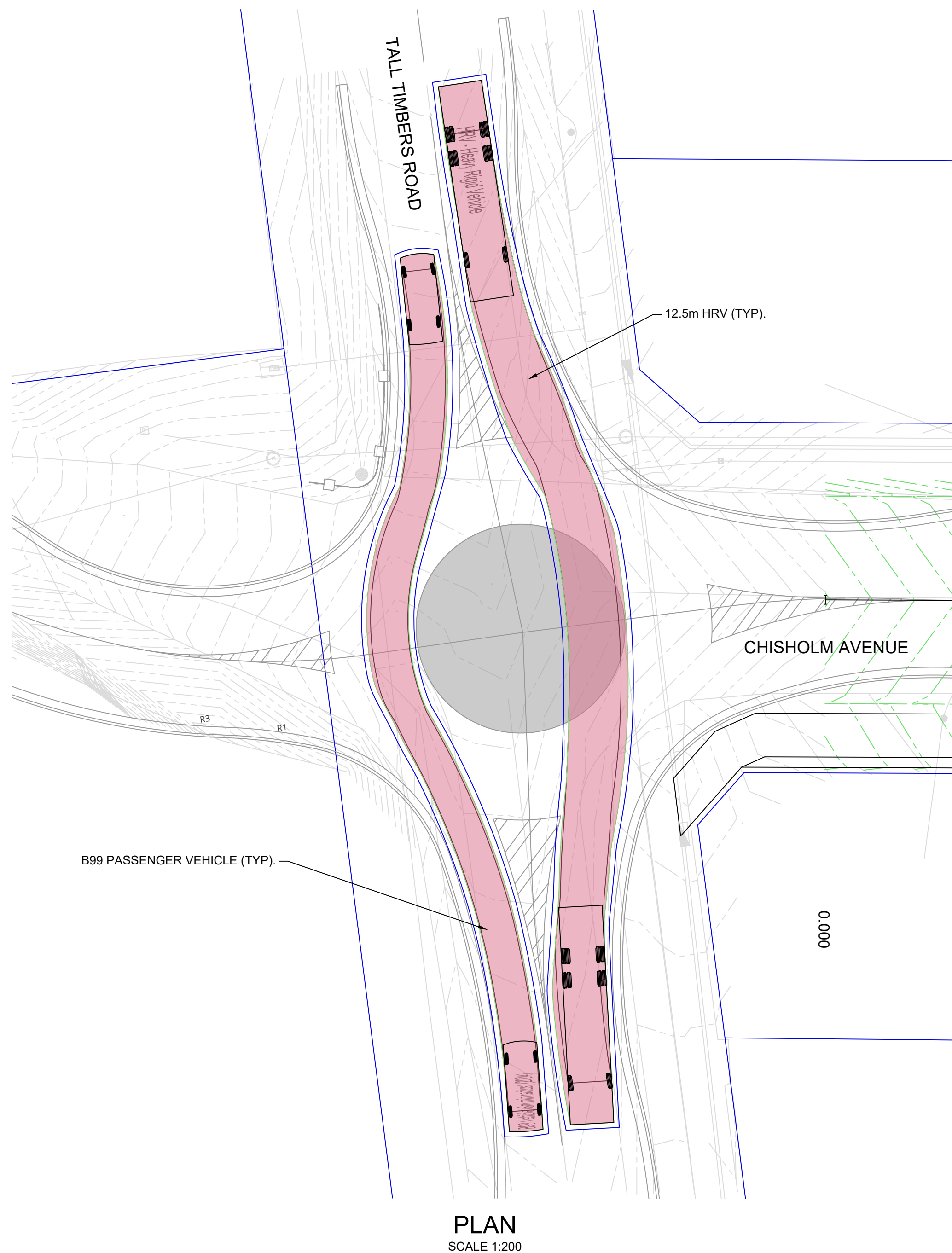
HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



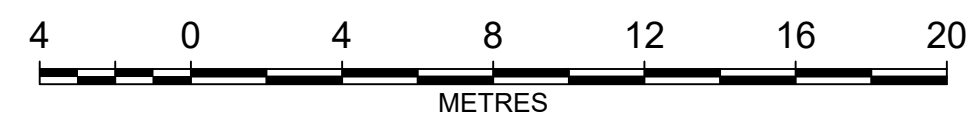
AV - Articulated Vehicle
Overall Length 19.000m
Overall Width 2.500m
Overall Body Height 4.301m
Min Body Ground Clearance 0.418m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



B99 Vehicle (Realistic min radius) (2004)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.878m
Min Body Ground Clearance 0.272m
Track Width 1.640m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 6.250m



PLAN
SCALE 1:200



1:200

REFER TO GENERAL NOTES ON SHEET 011.

REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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EXTERNAL COUNCIL ROAD UPGRADES

TURNING PATHS FOR ROUNDABOUT SHEET 6

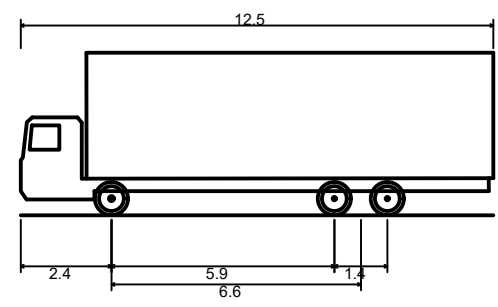
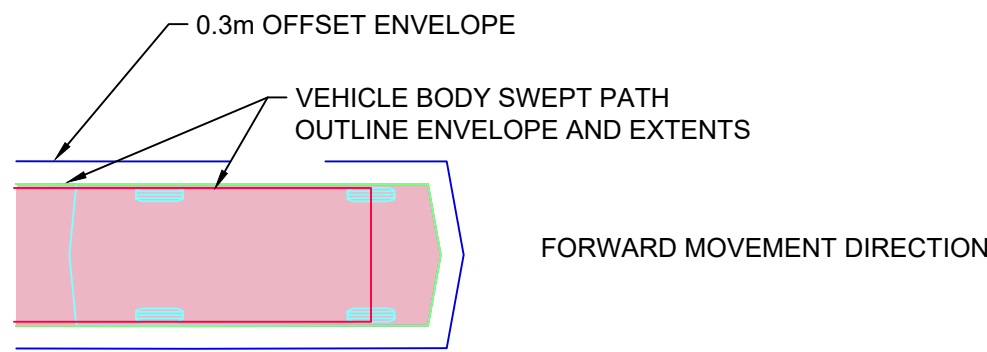
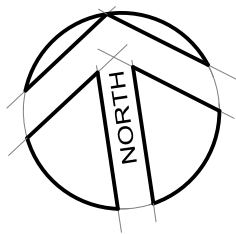
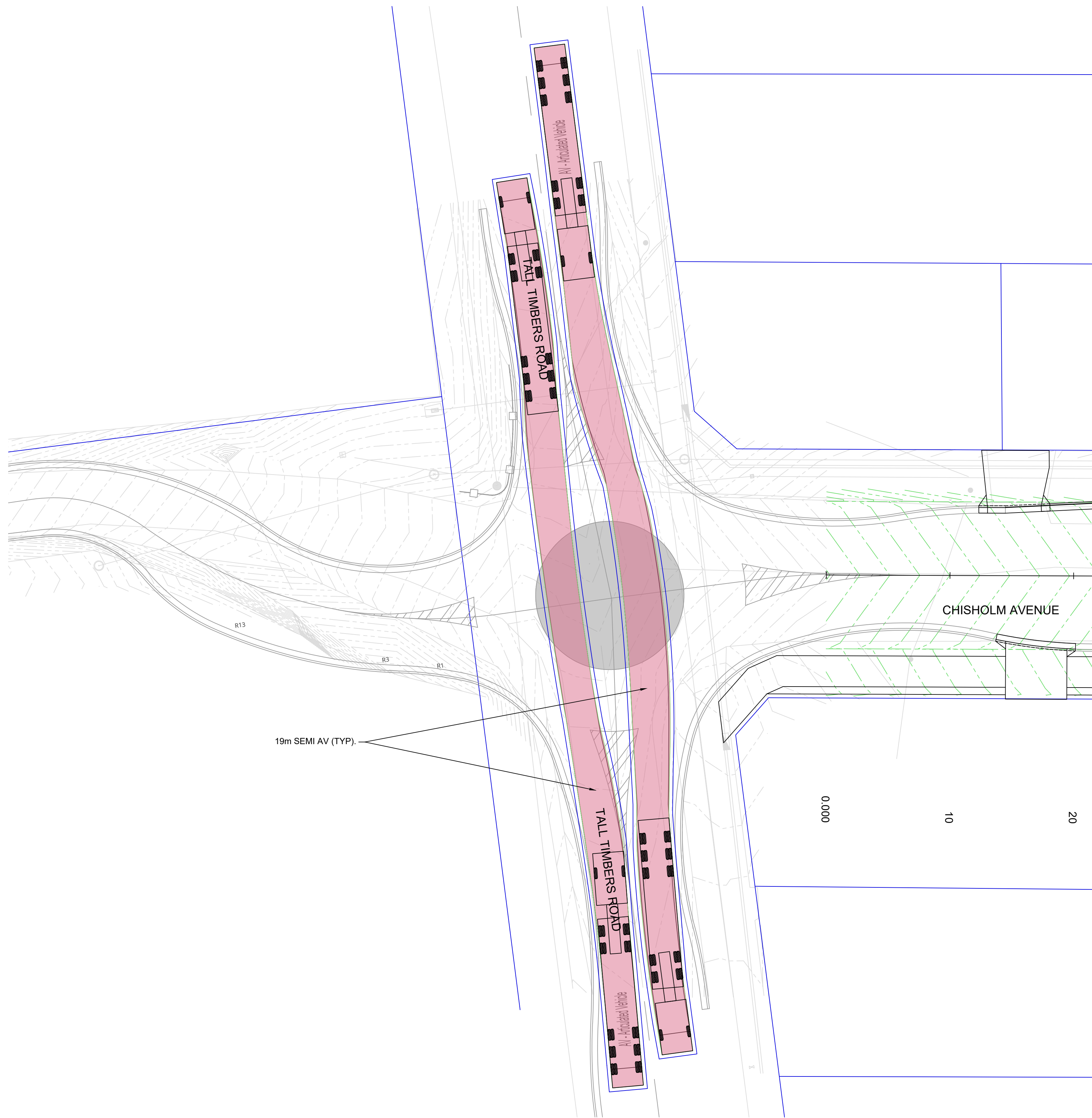
Designed: SGB
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -

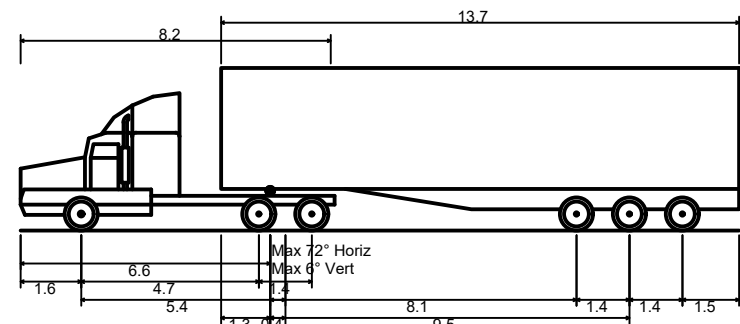
Datum: A.H.D.

Plan No.
CC180099-03-416
File Ref.
CC180099

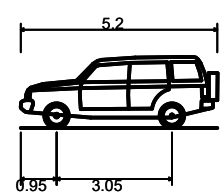
REV.
H



HRV - Heavy Rigid Vehicle
Overall Length 12.500m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.417m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



AV - Articulated Vehicle
Overall Length 19.000m
Overall Width 2.500m
Overall Body Height 4.301m
Min Body Ground Clearance 0.418m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 12.500m



B99 Vehicle (Realistic min radius) (2004)
Overall Length 5.200m
Overall Width 1.940m
Overall Body Height 1.878m
Min Body Ground Clearance 0.272m
Track Width 1.840m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 6.250m

PLAN
SCALE 1:200



REFER TO GENERAL NOTES ON SHEET 011.

REV	AMENDMENT	ISSUED	DATE
D	RE-ISSUED TO COUNCIL	SGB	29/07/2022
E	REVISED FOR COUNCIL COMMENT	SGB	03/11/2023
F	REVISED FOR COUNCIL COMMENT	SGB	21/02/2024
G	REVISED ROUNDABOUT LAYOUT	SGB	19/12/2024
H	REVISED FOR COUNCIL COMMENT	SGB	10/03/2024



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TURNING PATHS FOR ROUNDABOUT SHEET 7

Designed: SGB
Drawn: DKH
Checked: SGB

Scales: Plan 1:200
@A1 Horiz. -
Vert. -
X-Sect. -

Datum: A.H.D.

Plan No.
CC180099-03-417

File Ref.
CC180099

REV.

H