PROPOSED RESIDENTIAL FLAT BUILDING



CIVIL CONSULTING ENGINEERS

CIVIL WORKS CONTRACTOR IS TO BE AWARE OF POWER LINES ABOVE WORKS & IS RESPONSIBLE TO ENSURE ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE REGULATORY AUTHORITY REQUIREMENTS. ALL SERVICES WITHIN COUNCIL VERGE MUST BE POTHOLED & ACCURATELY LOCATED BY A COMPETENT & LICENCED SERVICE LOCATOR PRIOR TO ANY CONSTRUCTION. www.dbydlocator.com SERVICES SHOWN ARE INDICATIVE ONLY LOCATED FROM THE SUPPLIED SURVEY & DIAL BEFORE DIG INFORMATION. CIVIL WORKS CONTRACTOR MUST NOTIFY ENGINEER ONCE ALL SERVICES HAVE BEEN ACCURATELY LOCATED TO CONFIRM THE ACCURACY OF THE DESIGN.

EXTERNAL NOTES:

EARTHWORKS NOTES:

UNDER BUILDING SLABS ON GROUND

3 TESTS PER LAYER

DIRECTED BY THE GEOTECHNICAL ENGINEER.

AREAS GENERALLY AS DETAILED.

HAS BEEN UNDERTAKEN U.N.O..

OUTLETS AS DETERMINED ONSITE.

SHOULD BE UNDERTAKEN WHEN BACKFILLING.

ACHIEVE 98% MODIFIED MAXIMUM DRY DENSITY.

28. IF IN DOUBT, ASK!

/ GEOTECHGEOTECHNICAL ENGINEERS INSTRUCTIONS.

RELATION TO SOIL AND GROUNDWATER CONDITIONS DURING CONSTRUCTION.

MUST BE IN ACCORDANCE WITH THE COUNCIL APPROVED ARBORISIT REPORT.

19. EARTHWORKS EXTENT SHOWN IS FOR THE PROPOSED DEVELOPMENT AREA ONLY.

FILL BATTERS SHOULD BE OVERFILLED BY NOT LESS THAN 0.5m, THEN CUT BACK TO PROFILE.

300mm & 95% STANDARD MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289

24. FILL BATTERS SHOULD BE OVERFILLED BY NOT LESS THAN 0.5m, THEN CUT BACK TO PROFILE

20. FOLLOWING THE INSPECTION OF SUBGRADE, THE ENGINEER (OR COUNCIL ENGINEER) MAY REQUIRE THE

CONSTRUCITION OF SUB SOIL DRAINS (TO COUNCIL/ENGINEERS SPECIFICATIONS) TO DISCHARGE TO APPROVED

21. IMPORTED FILL MUST HAVE A SOAKED CBR NOT LESS THAN 15%, AND A MAXIMUM AGGREGATE SIZE NOT

OR PLACE ADDITIONAL SURCHARGE ON AN EXISTING STRUCTURES.

THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC

UTLILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD

RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL

LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE

STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY

WORKS TO ENSURE THAT THERE ARE NO OBSTRUCTIONS IN THE LINE

OF THE DRAINAGE DISCHARGE PIPES.

UNDER ROADS, FOOTWAYS AND CARPARKS

LANDSCAPED AREAS UNLESS NOTED OTHERWISE

6. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN: -

1 TEST PER 1,000m² OF EXPOSED SUBGRADE

1 TEST PER 200m³ OF FILL PLACED PER 150mm LAYER OF FILL

7. ALL TESTING OF EARTHWORKS SHALL BE DONE AT THE CONTRACTORS EXPENSE U.N.O.

REASON, THE CONTRACTOR WILL WEAR THE COSTS OF ANY SUBSEQUENT RE-INSPECTIONS U.N.O.

9. FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 200mm LAYERS TO GEOTECHNICAL APPROVA

1. ORIGIN OF LEVELS: REFER TO SURVEYORS DRAWINGS

MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.

4. WHERE REQUIRED, COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.

1. ALL ACTIVITIES AND WORKS EXTERNAL TO THE SITE, OR THAT AFFECT PUBLIC ROADS, ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S CODES AND STANDARDS 2. PUBLIC FOOTPATHS SHALL BE RECONSTRUCTED TO THE SATISFACTION OF COUNCIL'S DIRECTOR OF ENGINEERING SERVICES. A ROAD OPENING PERMIT SHALL BE OBTAINED FOR ALL

WORKS CARRIED OUT IN A PUBLIC OR COUNCIL CONTROLLED LAND. 3. RESTORATION OF LANDSCAPING. ROADS AND PATHS SHALL BE TO COUNCIL'S REQUIREMENTS.

2. STRIP ALL TOPSOIL / ORGANIC MATERIAL (50mm NOMINAL) FROM CONSTRUCTION AREA AND REMOVE FROM SITE

3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE

5. BEFORE PLACING FILL, PROOF ROLL NON-EXPOSED SUBGRADE WITH A 12 TONNE (MIN) DEADWEIGHT SMOOTH

WHICHEVER REQUIRES THE MOST TESTS. TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS

8. SHALL A SUB-GRADE PROOF ROLL INSPECTION FAIL, OR ADDITIONAL INSPECTIONS BE REQUIRED FOR ANY OTHER

10. AFTER CLEARING, GRUBBING AND STRIPPING, NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE

WRITING THAT FILLING CAN PROCEED. WEAK SOILS ARE TO BE REMOVED AND REPLACED WITH COMPACTED FILL AS

11. WHERE GROUNDWATER DISCHARGE OCCURS IN BULK EXCAVATIONS OR CUT FACES, SUBSOIL DRAINAGE SHALL BE

INSTALLED IN ACCORDANCE WITH THE SITE SUPERINTENDENT / GEOTECHNICAL ENGINEERS INSTRUCTIONS TO DIRECT

INSTALLED AT LOW POINTS IN THE FINISHED EARTHWORK PROFILE IN ACCORDANCE WITH THE SITE SUPERINTENDENT

12. ENSURE TEMPORARY DIVERSION CHANNELS ARE CONSTRUCTED AROUND STOCKPILED MATERIALS AND DISTURBED

13. THE CONTRACTOR SHALL ALLOW FOR AND COORDINATE ALL MONITORING AND MAINTENANCE REQUIREMENTS IN

QUANTITIES PRIOR TO CONSTRUCTION. BULK EARTHWORKS ARE ESTIMATED & ASSUMED ONLY, NO DETAILED DESIGN

15. ANY DAMAGE TO EXISTING ROADWAYS OR SERVICES WILL BE RECTIFIED BY THE CONTRACTOR AS HIS EXPENSE.

16. ALL ENVIRONMENTAL MEASURE INCLUDING VEGETATION PROTECTION AND EROSION AND SEDIMENT CONTROL SHALL BE IN PLACE PRIOR TO THE COMMENEMENT OF ANY WORK. ALL REMOVAL AND WORKS ASSOCIATED WITH VEGETATION

17. IT IS THE CONTRACTORS RESPONSIBILTY TO ENSURE THAT THE SITE WORKS DO NOT COMPROMISE / UNDERMINE

18. BATTER ANGLES MUST COMPLY WITH LOCAL ATHORITY REQUIREMENTS AND SHALL BE PROTECTED FROM EROSION.

GREATER THAN 50mm, MAXIMUM LIQUID LIMIT = 40; MAXIMUM P.I. = 15; MAXIMUM P.I. x % PASSING 425um = 450.

22. FILL UNDER BUILDING PLATFORMS TO BE CONTROLLED FILL PLACED IN ACCORDANCE WITH AS3798 & AS2870.

25. BACK FILLING FOR SERVICE TRENCHES SHOULD USE GOOD QUALITY MATERIAL FREE OF ORGANIC MATERIAL. THE

BACK FILL SHOULD BE PLACED IN UNIFORM LAYERS OVER THE FULL WIDTH OF THE EXCAVATIONS WITH THE LAYERS

26. BACK FILLING FOR SERVICE TRENCHES UNDER ROADWAYS SHALL BE WITH A QUALITY MATERIAL OF NOT LESS

THAN CBR 15% (SOAKED) TO THE UNDERSIDE OF PAVEMENT, COMPACTED AT OPTIMUM MOISTURE CONTENT TO

DISTURBED WEAKENED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT MATERIAL. THIS IS OF

27. DEPRESSIONS FORMED BY REMOVAL OF VEGETATION, UNDERGROUND ELEMENTS ETC. SHOULD HAVE ALL

PARTICULAR IMPORTANCE FOLLOWING THE REMOVAL OF ANY EXISTING STRUCTURES AND FOUNDATIONS.

23. FILL NOT UNDER BUILDING PLATFORMS OR ROAD PAVEMENTS TO BE COMPACTED IN LAYERS NOT EXCEEDING

NOT EXCEEDING 200mm THICKNESS, LOOSELY PLACED. THE BACK-FILL MATERIAL SHOULD BE COMPACTED TO

SPECIFICATIONS OUTLINED ABOVE FOR INSITU OR IMPORTED MATERIAL. BENCHING OF BATTERED EXCAVATIONS

14. CIVIL CONTRACTOR IS RESPONSIBLE FOR CALCULATING BULK EARTHWORKS VOLUMES AND MUST CONFIRM

DISCHARGE WATER TO THE NEAREST STORMWATER / SEDIMENTATION CONTROL DEVICE. THE SUBSOIL DRAINAGE MUST

AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER AND APPROVAL GIVEN IN

BE INSTALLED AS SOON AS PRACTICALLY POSSIBLE AFTER EXCAVATION. SUBSOIL DRAINAGE SHALL ALSO BE

3798-2007 U.N.O BY COUNCIL OR THE GEOTECHNICAL INSPECTION & TESTING AUTHORITY (GITA).

STANDARD DRY DENSITY

(AS 1289 E 5.1.1.)

98 - 102%

98 - 102%

ALL OTHER RESTORATION SHALL BE TOTHE SATISFACTION OF THE AFFECTED PARTIES. 4. WHERE WORKS ARE UNDERTAKEN ON PUBLIC ROADS, ADEQUATE TRAFFIC CONTROL AND DIRECTIONS TO MOTORISTS SHALL BE PROVIDED BY OTHERS.

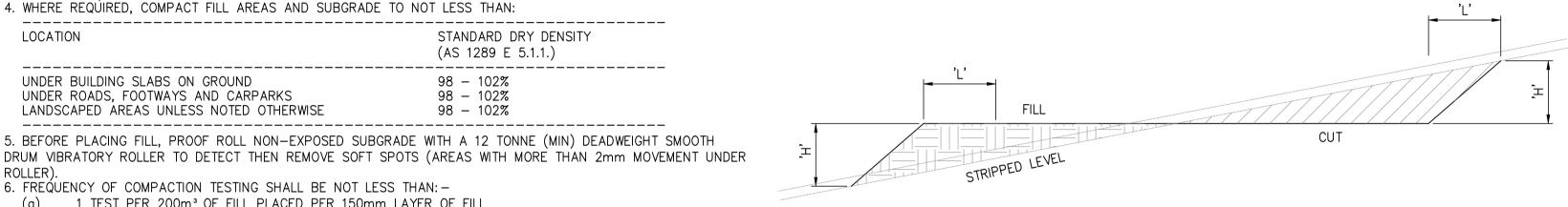
94-96 PARK STREET & 4 KUNARI PLACE, MONA VALE

CONCRETE NOTES EARTHWORKS TECHNICAL NOTES & SPECIFICATIONS:

BATTER ANGLES FOR EMBANKMENTS:

IT IS THE BUILDERS RESPONSIBILITY TO ENSURE THAT THE SITE WORKS DO NOT UNDERMINE OR PLACE ADDITIONAL SURCHARGE ON ANY EXISTING STRUCTURES, ONSITE OR ADJACENT. IF THIS CAN NOT BE ACHIEVED RTS CIVIL CONSULTING ENGINEERS MUST BE CONTACTED PRIOR TO ANY SITE WORKS BEING UNDERTAKEN.

BATTER ANGLES MUST COMPLY WITH LOCAL GOVERNMENT REQUIREMENTS AND ARE TO CONFORM AS FOLLOWS (FIGURE 1).



SLOPE = H:L	MATERIAL TYPE	STABLE	SAND	SILT	CL	AY	60FT 60# 6
H < 2.0m	(REFER GEOTECH ENG.)	ROCK			FIRM CLAY	SOFT CLAY	SOFT SOILS
EMBANKMENT SLOPES	COMPACTED FILL	1:1	1: 3	1: 4	1: 2	N/A	N/A
(HEIGHT LENGTH)	CUTTING	N/A	1: 3	1: 4	1:2	1: 3	N/A

NOTE: RETAINING WALLS OR OTHER FORMS OF SOIL RETAINING METHODS MUST BE ADOPTED WHERE THE SLOPE RATIO IS GREATER THAN THAT INDICATED IN THE TABLE ABOVE. REFER TO GEOTECHNICAL REORT FOR TREATMENT OF UNSTABLE MATERIAL. ALL BATTER ANGLES APPROXIMATE ONLY AND ARE TO BE CONFIRMED BY GEOTECHNICAL AND CIVIL ENGINEER.

FILL MATERIAL AND COMPACTION:

ORGANIC MATERIAL, HIGHLY REACTIVE CLAYS AND LARGE ROCKS ARE NOT SUITABLE FOR USE AS FILL. THE FILL IS TO BE SPREAD IN 150mm LAYERS AND EXTENSIVELY TRACK ROLLED WITH A DROTT. ALL EARTHWORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE FULL REQUIREMENTS OF AS3798, GUIDELINES FOR EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. NOTE: IN THE INSTANCES WHERE BY SIGNIFICANT LEVELS OF FILLING ARE OBSERVED, THERE WILL ALWAYS REMAIN THE POSIBILITY OF TILT AS A RESULT OF DIFFERENTIAL SETTLEMENT IN THE FILL. AUSTRALIAN STANDARD (AS2870-2011) DOES NOT CATER FOR TILTING OF SLABS AS A RESULT OF DIFFERENTIAL SETTLEMENT WITHIN CERTIFIED NOR DOES THE AUSTRALIAN STANDARD ADDRESS THE POSSIBLE OCCURRENCE WHEN SHALLOW FOUNDATIONS ARE ADOPTED.

THE EXTERNAL FINISHED SURFACE SURROUNDING THE DWELLINGS MUST BE DRAINED TO MOVE SURFACE WATER AWAY FROM THE BUILDING AND GRADED TO GIVE A SLOPE OF NOT LESS THAN 50 MM OVER THE FIRST 1 M AWAY FROM THE BUILDING.

FOOTPATH AND PAVEMENT NOTES

1. ALL PAVEMENTS TO BE IN ACCORDANCE WITH THE CURRENT PAVEMENT REQUIREMENTS FOR COUNCIL CIVIL WORKS SPECIFICATIONS. 2. COMPACTION AND TESTING OF EACH PAVEMENT LAYER TO BE IN ACCORDANCE WITH THE CURRENT PAVEMENT

REQUIREMENTS FOR COUNCIL CIVIL WORKS SPECIFICATIONS. 3. GEOTECHNICAL CBR VALUES TO BE OBTAINED ON SITE AND CIVIL ENGINEER TO ADJUST PAVEMENT DESIGN TO SUIT WHERE REQUIRED

4. UNLESS NOTED OTHERWISE, ALL SUB BASE TO CONTAIN 3% CEMENT BY DRY WEIGHT AND TO BE COMPACTED TO AT LEAST 98% OF MMDD, AT A MOISTURE CONTENT BETWEEN MOMC AND 3% DRY OF MOMC. ALL SUB BASE TO ACHIEVE AN ELASTIC MODULUS OF 3500MPa.

5. ALTERNATIVE PAVEMENT MATERIALS TO BE CONFIRMED BY LOCAL COUNCIL

6. ALL PEDESTRIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O) 7. EXPANSION JOINTS (EJ) ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT

8. WEAKENED PLANE JOINTS (WPJ) ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT. 9. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS. 10. PEDESTRIAN PAVEMENT JOINT DETAIL.

_		ГА	LE UF	NERD		
_	EJ	WPJ	WPJ	E	WPJ	*
		-	6.0m MAX	1.5 x W		

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

2. CONCRETE QUALITY ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20
RETAINING WALLS	32	80	20

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

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AIKEN DESIGN & CONSULTING.

4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE

40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE. 5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m

CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS. 6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.T.A. SPECIFICATION

7. REINFORCEMENT SYMBOLS:

N DENOTES GRADE 500 N BARS TO AS 4671 GRADE N R DENOTES 250 R HOT ROLLED PLAIN BARS TO AS 4671

SL DENOTES COLD-DRAWN WIRE REINFORCING FABRIC TO AS 4671 NUMBER OF BARS IN GROUP _ _ BAR GRADE AND TYPE

NOMINAL BAR SIZE IN mm ☐ SPACING IN mm

THE FIGURE FOLLOWING THE FABRIC SYMBOL IS THE REFERENCE NUMBER FOR FABRIC TO AS 4671 8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

MIN 25 ___ /_LAP TWO WIRES

NSPECTIONS BY ENGINEER

48-72 HOURS NOTICE IS REQUIRED BEFORE ANY SITE INSPECTION. ANY STRUCTURAL ELEMENT NOT INSPECTED BY RTS CIVIL WILL NOT BE CERTIFIED BY RTS CIVIL CONSULTING ENGINEERS PTY LTD.

1. BEARING STRATA OF ALL FOOTINGS PRIOR TO CONCRETE POUR BY GEOTECHNICAL ENGINEER. 2. ANY REINFORCEMENT PRIOR TO CONCRETE POUR.

3. TIMBER AND STEEL FRAMING PRIOR TO CLADDING OR LINING.

4. STEEL LINTELS AFTER INSTALLATION.

5. CONTACT YOUR PCA (PRINCIPAL CERTIFYING AUTHORITY) AS TO REQUIREMENTS FOR MANDATORY CRITICAL STAGE INSPECTIONS IN ACCORDANCE WITH REVISED EP&A ACT REGULATIONS EFFECTIVE JULY 1, 2004.

6. INSPECTION BY GEOTECHNICAL ENGINEER OVER 1.5m OF VERTICAL CUT THROUGH SANDSTONE BED ROCK TO PERMIT IDENTIFICATION OF DEFECTS AND REMEDIAL MEASURES INITIATED.

7. SCHEDULE OF CONSTRUCTION STAGES REQUIRING INSPECTION: a. FOLLOWING PLACEMENT OF PIPE BEDDING MATERIAL. CONFIRM TRENCH/PIPE LOCATION, ADEQUACY OF DEPTH OF COVER, BEDDING MATERIAL AND DEPTH. b. FOLLOWING JOINING OF PIPES AND CONNECTION TO COUNCIL'S STORMWATER SYSTEM. c. FOR ON-SITE DETENTION SYSTEMS: -

(i) FOLLOWING SET OUT OF DETENTION TANK/AREA TO CONFIRM AREA AND VOLUME OF STORAGE.

(ii) FOLLOWING PLACEMENT OF WEEP—HOLES, ORIFICE AND/OR WEIR FLOW CONTROL, OUTLET SCREEN AND OVEFLOW PROVISION. 8. PLEASE NOTE THAT COUNCIL FORMWORK INSPECTIONS MUST BE BOOKED 3 BUSINESS DAYS IN ADVANCE. FORMWORK INSPECTIONS REQUIRE EITHER THE

CONTRACTOR OR APPLICANT TO BE PRESENT ONSITE FOR THE INSPECTION. TO SCHEDULE A FORMWORK OR FINAL INSPECTION OF THE VEHICLE CROSSING, PLEASE VISIT www.northernbeaches.nsw.gov.au 9. THE APPOINTED CONTRACTOR MUST BE ON NORTHERN BEACHES COUNCIL'S

APPROVED LIST OF AUTHORISED VEHICULAR CROSSING CONTRACTORS. IF THEY ARE NOT ON THE LIST. THEN THEY MUST APPLY TO BECOME ACCREDITED PRIOR TO COMMENCING CONSTRUCTION WORKS. FOR MORE INFORMATION, PLEASE VISIT www.northernbeaches.nsw.gov.au 10. PLEASE CONTACT COUNCIL ON 1300 434 434 FOR ANY ENQUIRIES ABOUT THIS

APPLICATION.

KERB AND GUTTER NOTES

1. CLEAR ORGANIC MATERIAL AND TOPSOIL UNDER PROPOSED PAVEMENT. 2. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.

2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1). 3. 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 MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE

4. WEAKENED PLANE JOINTS (WPJ) TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS

IN THE SLABS. 5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

6. IN THE REPLACEMENT OF KERB AND GUTTER :-(a) EXISTING ROAD PAVEMENT IS TO BE SAWCUT ALONG THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O. (b) EXISTING ALLOTMENT DRAINAGE PIPES TO CIVIL DRIVEWAY ACCESS PLAN.

c) EXISTING KERB AND GUTTER IS TO BE COMPLETELY REMOVED AND A NEW KERB AND GUTTER IS TO BE CONSTRUCTED AS SHOWN.

7. ALL REINFORCEMENT SHALL BE SUPPORTED ON PLASTIC TIPPED WIRE CHAIRS, OR APPROVED PLASTIC CHAINS AT 800mm MAXIMUM CENTRES BOTH WAYS. CHAIRS SHALL HAVE SUITABLE BEARING PLATES ARRANGED AND SECURED TO PREVENT SINKING INTO THE MATERIAL OR MEMBRANE BELOW.

SURVEY NOTES:

. THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY THE PROJECT SURVEY. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. RTS CIVIL CONSLTING ENGINEERS PTY LTD DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE.

2. SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT THE ENGINEER. 3. REFERENCE SHOULD BE MADE DIRECTLY TO THE SURVEYOR BEFORE SETTING OUT.

EXISTING UNDERGROUND SERVICES NOTES:

1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

2. RTS CIVIL CONSULTING ENGINEERS PTY LTD CANNOT GUARANTEE THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER. 3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION

WHERE NECESSARY. 4. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

5. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE, SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

6. CONTRACTOR IS TO CONFIRM FINDINGS FOR THE LOCAL COUNCL OR SYDNEY WATER IN RELATION TO THE SEWER OR WATER MAINS LOCATED. CONFIRMATION OF MAINS IS REQUIRED PRIOR TO CONSTRUCTION. POSSIBLE CONFLICT OF SERVICES ARE TO BE REPORTED TO THE SUPERINTENDENT OR ENGINEER FOR FURTHER DIRECTIONS.

DRAWING SCHEDULE:

CW001 - COVER PAGE, NOTES & CALCULATIONS CW100 - CIVIL DRIVEWAY ACCESS PLAN CW200 - DRIVEWAY LONGITUDINAL 1 CW201 - DRIVEWAY LONGITUDINAL 2 CW202 - DRIVEWAY LONGITUDINAL 3 & 4

NORTHERN BEACHES COUNCIL STANDARD DRAWINGS: - TCI-STD-DWG-0001-FINAL (KERB DETAILS)

- TCI-STD-DWG-0002-FINAL (PAVEMENT DETAILS)

- TCI-STD-DWG-0009-FINAL (DRIVEWAY PROFILES)

- TCI-STD-DWG-0003-FINAL (FOOTPATH DETAILS)

- TCI-STD-DWG-0020-FINAL (PAVEMENT CONSTRUCTION) SHOULD THEY DAMAGE UNDERGROUND NETWORKS

NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES

www.dialbeforeyoudig.com.au

SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE DEVELOPERS & EXCAVATORS MAY BE HELD

FINANCIALLY RESPONSIBLE BY THE ASSET OWNER

CARELESS DIGGING CAN: DIGGING CAN:

- CAUSE DEATH OR SERIOUS INJURY TO

WORKERS AND THE GENERAL PUBLIC

INCONVENIENCE USERS OF ELECTRICITY, GAS, WATER AND COMMUNICATIONS

LEAD TO CRIMINAL PROSECUTION AND

DAMAGES CLAIMS CAUSE EXPENSIVE FINANCIAL LOSSES

TO BUSINESS

 CUT OFF EMERGENCY SERVICES DELAY PROJECT COMPLETION TIMES WHILE THE DAMAGE IS REPAIRED

MINIMISE YOUR RISK AND DIAL BEFORE YOU DIG. - TEL. 1100

ALL DIMENSIONS MUST BE VERIFIED ON SITE BY BUILDER BEFORE COMMENCING WITH WORK.

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				Issued for:
				Approved by
				Data . 16 05
Α	16.05.25	CIVIL DRIVEWAY ACCESS PLAN FOR DA SUBMISSION	R.M	Date : 16.05 Rhys Mikhail
Rev:	Date:	Description:	Reviewed:	Director Principo

DEVELOPEMENT APPLICATION DESIGN R.M 5.04.2025 DRAWN 15.04.2025 S.M CHECKED R.M ipal Engineer | NER: 2570082 | RPEQ: 1748 APPROVED BEng (Civil) Hons MIEAust CPEng NER RPEQ APEC IntPE(Aus

COUNCIL AND/OR PRIVATE CERTIFYING AUTHORITY APPROVAL FOR

ALL WORKS CONTAINED ON THE FOLLOWING DRAWINGS MUST BE

OBTAINED (DEVELOPMENT APPLICATION, CONSTRUCTION CERTIFICATE,

AND/OR COMPLYING DEVELOPMENT CERTIFICATE) PRIOR TO

COMMENCEMENT OF CONSTRUCTION.

CIVIL CONSULTING ENGINEERS STORMWATER . CIVIL . FLOOD MITIGATION

ABN: 81 615 065 588 Phone: 0490 507 300 Email: admin@rtscivil.com.au Web: rtscivil.com.au he document is produced by RTS Civil Consulting Engineers Pty Ltd (RTS) solely for the benefit of and use by the client in accordance with the terms and conditions of RTS. RTS does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

MONA VALE CENTRAL PTY LTD

WALSH ARCHITECTS

Architect:

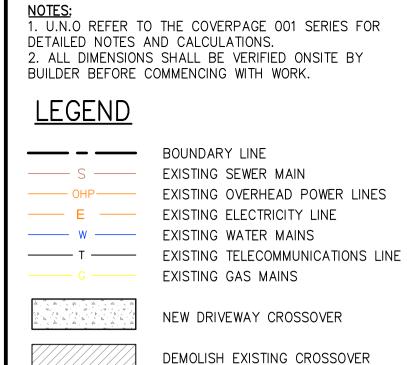
94-96 PARK STREET & 4 KUNARI PLACE, MONA VALE COVERPAGE, NOTES & CALCULATIONS

Project and Drawing Title:

Local Council:

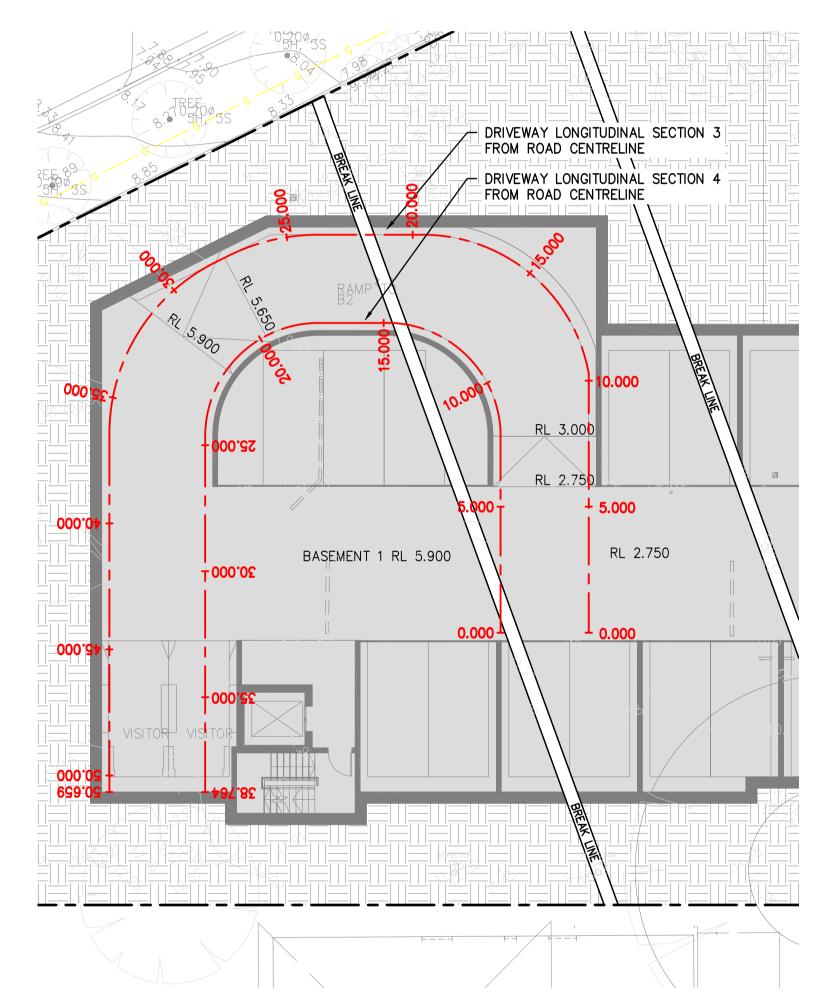
NORTHERN BEACHES

Project Number: Drawing ID: Issue:



DRIVEWAY LONGSECTIONS

DRIVEWAY CHAINAGES



INTERNAL DRIVEWAY ACCESS RAMP PLAN SCALE = 1 : 150

NEW VEHICULAR CONCRETE DRIVEWAY CROSSOVER AND LAYBACK GENERALLY IN - ACCORDANCE WITH THE INTENT OF NORTHERN BEACHES COUNCIL STD DWG No.1 "DRIVEWAY PROFILE — NORMAL (N)" DATED 07.07.2022, TRAFFIC ENGINEER REQUIREMENTS AND AS2890.1 ACCESS REQUIREMENTS. 1:8 MAX. BATERS IN COUNCIL REMOVE EXISTING CROSSOVER AND REINSTATE COUNCIL VERGE, KERB & GUTTER TO COUNCIL SPECIFICATIONS. 3.448 RL 3.830 DRIVEWAY LONGITUDINAL SECTION 2 FROM ROAD CENTRELINE RL 2.750 DRIVEWAY LONGITUDINAL SECTION 1 FROM ROAD CENTRELINE RL 3.000 RL 2.750

DRIVEWAY ACCESS PLAN

SCALE = 1 : 150

NOTE:
THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTLILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THAT THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.

DIAL 1100 BEFORE YOU DIG

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Α	16.05.25	CIVIL DRIVEWAY ACCESS PLAN FOR DA SUBMISSION	R.M	
Rev:	Date:	Description:	Reviewed:	[

Issued for: DEVELOPEMENT APPLICATION	Title:
Approved by:	DESIGN
R Milli	DRAWN
Date: 16.05.25	CHECKED
Director Principal Engineer NER: 2570082 RPEQ: 17480 BEng (Civil) Hons MIEAust CPEng NER RPEQ APEC IntPE(Aus)	APPROVED

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CIVIL CONSULTING ENGINEERS

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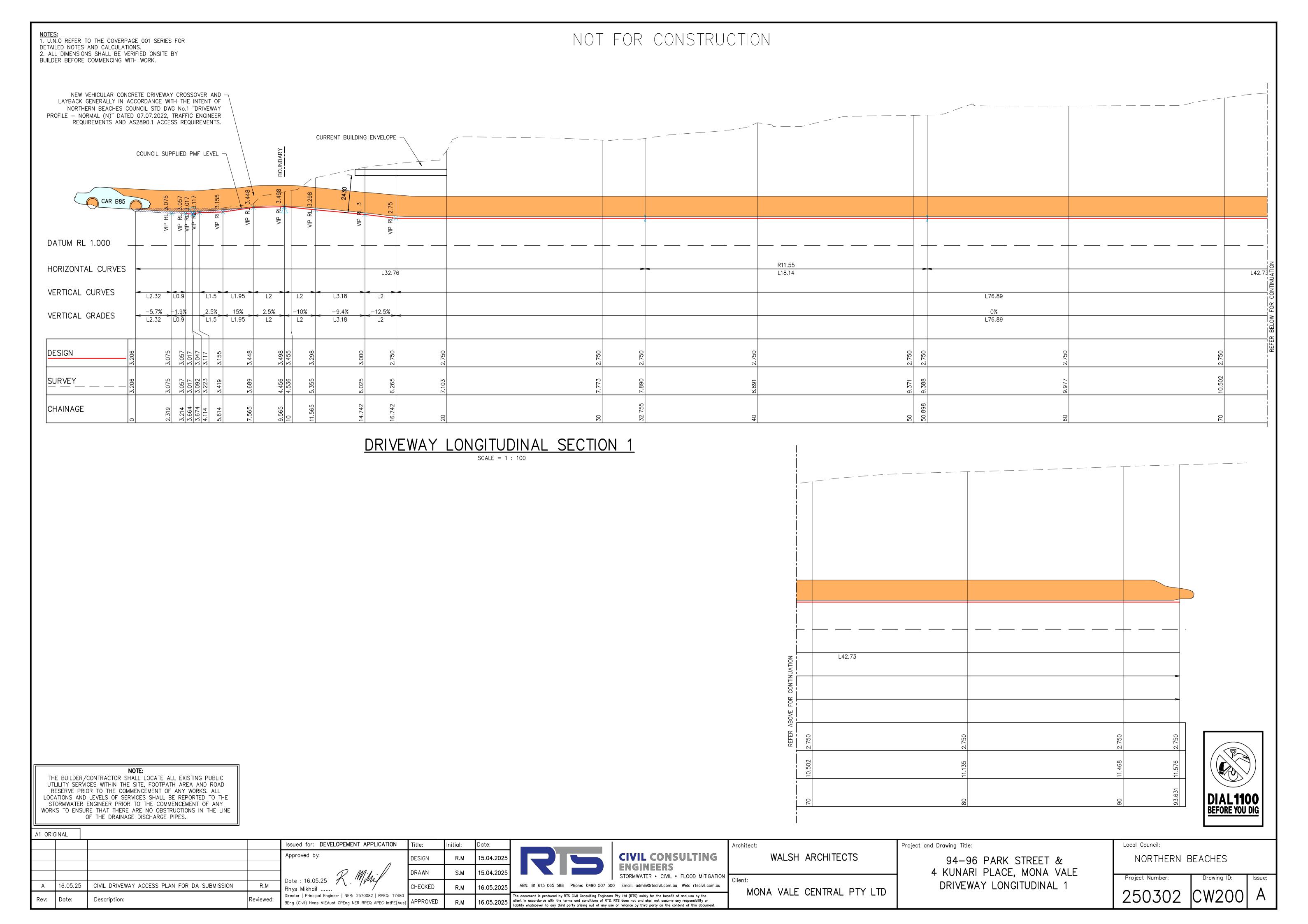
Architect:		
	WALSH	ARCHITECTS

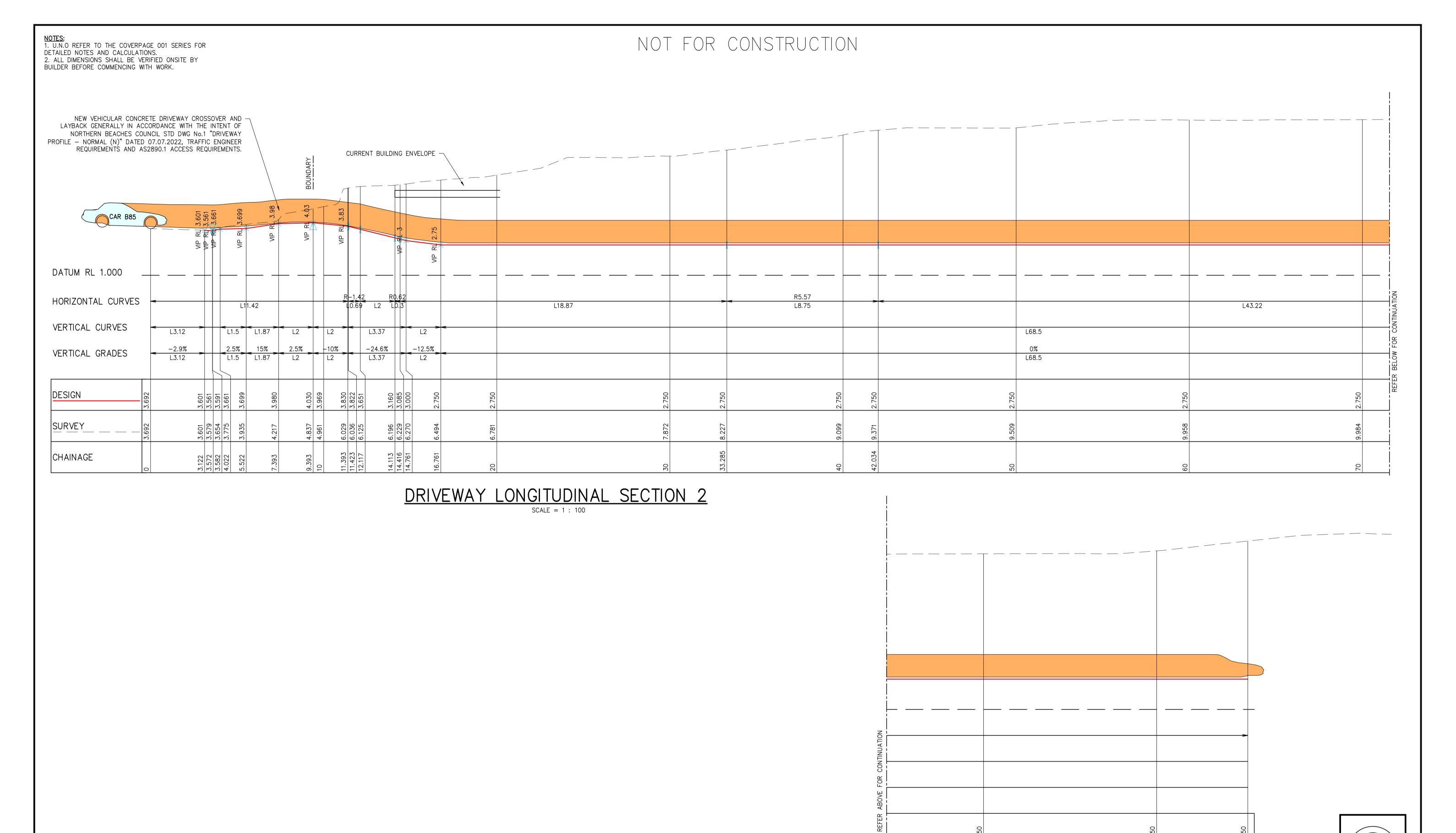
94-96 P 4 KUNARI PL CIVIL DRIVEWA MONA VALE CENTRAL PTY LTD

Project and Drawing Title:

	Local Council:	
PARK STREET & PLACE, MONA VALE	NORTHERN E	BEACHES
VAY ACCESS PLAN	Project Number:	Drawing ID:

250302 CW100





THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTLILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THAT THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.

Date:

Description:

A1 ORIGINAL CIVIL DRIVEWAY ACCESS PLAN FOR DA SUBMISSION A 16.05.25

Reviewed:

Issued for: DEVELOPEMENT APPLICATION Approved by: R.M DESIGN DRAWN S.M 15.04.2025 CHECKED R.M Rhys Mikhail . Director | Principal Engineer | NER: 2570082 | RPEQ: 1748 APPROVED BEng (Civil) Hons MIEAust CPEng NER RPEQ APEC IntPE(Aus)



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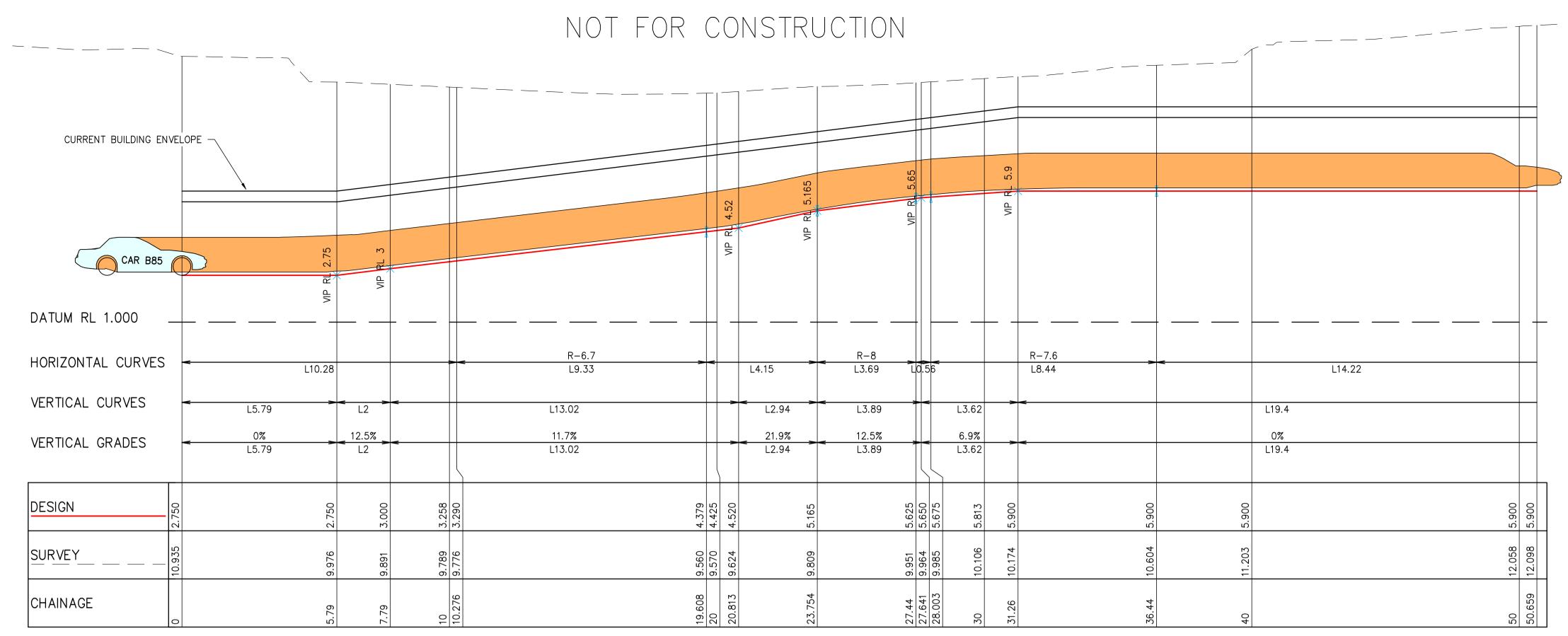
94-96 PARK STREET & 4 KUNARI PLACE, MONA VALE DRIVEWAY LONGITUDINAL 2

Local Council:	
NORTHERN	BEACHES
Project Number:	Drawing ID:

Project Number: Drawing ID: Issue: 250302 CW201 A

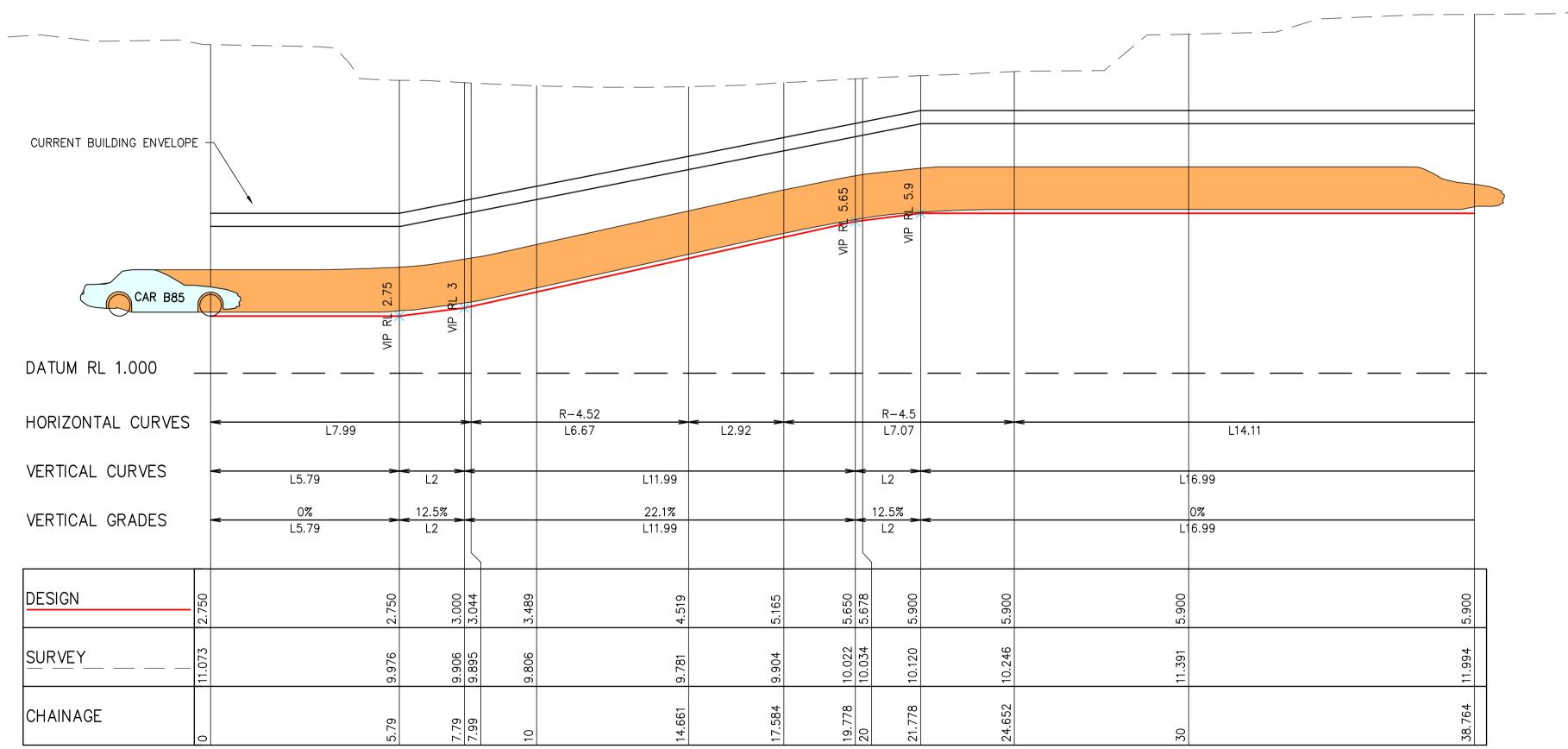
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NOTES:
1. U.N.O REFER TO THE COVERPAGE 001 SERIES FOR DETAILED NOTES AND CALCULATIONS. 2. ALL DIMENSIONS SHALL BE VERIFIED ONSITE BY BUILDER BEFORE COMMENCING WITH WORK.



DRIVEWAY LONGITUDINAL SECTION 3

SCALE = 1 : 100



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OF THE DRAINAGE DISCHARGE PIPES.

DRIVEWAY LONGITUDINAL SECTION 4

A1 ORIGINAL Issued for: DEVELOPEMENT APPLICATION Approved by: DESIGN R.M DRAWN S.M 15.04.2025 CIVIL DRIVEWAY ACCESS PLAN FOR DA SUBMISSION A 16.05.25 CHECKED R.M Rhys Mikhail . Director | Principal Engineer | NER: 2570082 | RPEQ: 1748 Rev: Date: Description: Reviewed: APPROVED BEng (Civil) Hons MIEAust CPEng NER RPEQ APEC IntPE(Aus)



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Architect: WALSH ARCHITECTS

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94-96 PARK STREET & 4 KUNARI PLACE, MONA VALE DRIVEWAY LONGITUDINAL 3 & 4

Project and Drawing Title:

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Local Council: NORTHERN BEACHES

Project Number: Drawing ID: 250302