

# CIVIL WORKS DRAWINGS FOR PROPOSED NEW DWELLING



SUIT 2.04, L2, BLDG 3,  
35-41 WATERLOO RD., MACQUARIE PARK, NSW 2113  
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CLIENT

ARCHITECT

WALSH ARCHITECTS

| DRAWING LIST   |                                               |
|----------------|-----------------------------------------------|
| DRAWING NUMBER | DRAWING NAME                                  |
| C00            | COVER SHEET, LOCALITY PLAN & DRAWING SCHEDULE |
| C01            | CIVIL WORKS LAYOUT PLAN                       |
| C03            | TYPICAL DRIVEWAY SECTIONS AND DETAILS         |
| C05            | DRIVEWAY LONGITUDINAL SECTIONS                |
| C10            | TYPICAL DETAILS                               |

GENERAL NOTES.

1. GUTTER CROSSING AND KERB WORKS, DRIVEWAY AND FOOTPATH WORKS TO BE DONE IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL ENGINEERING SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S CODE OF PRACTICE FOR EROSION AND SEDIMENTATION, AND MUST BE IMPLEMENTED PRIOR TO THE COMMENCEMENT OF ANY BUILDING OF CIVIL WORKS. THE DEVELOPER IS RESPONSIBLE FOR ONGOING MAINTENANCE OF EROSION AND SILTATION CONTROL MEASURES.
3. ALL PUBLIC UTILITIES ARE TO BE CLEARLY IDENTIFIED IN THE FIELD PRIOR TO ANY CIVIL WORKS. COUNCIL ACCEPTS NO RESPONSIBILITY FOR DAMAGE OR RELOCATION COSTS TO UTILITIES DURING CONSTRUCTION.
4. NORTHERN BEACHES COUNCIL IS TO BE NOTIFIED PRIOR TO THE COMMENCEMENT OF ANY WORKS.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE WHS ACT 2011.
6. PERMISSION TO ENTER, CONSTRUCT WORKS AND DISCHARGE STORMWATER ONTO ADJOINING PROPERTIES IS TO BE OBTAINED AND SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF ANY WORKS.
7. ALL RECTIFICATION WORK ARISING FROM INSUFFICIENT INFORMATION BEING SHOWN ON THE SUBMITTED PLANS IS TO BE CARRIED OUT TO THE ENGINEER'S SATISFACTION.
8. ALL THE DISTURBED AREAS TO BE SHAPED AND TURFED, SHALL BE 75mm TOP SOIL OF APPROVED LOAM & TURFED.
9. RETAINED TREES TO BE FENCED WITH A 1.8m HIGH CHAINWIRE LINK FENCE FULLY SUPPORTED AT GRADE TO MINIMISE THE DISTURBANCE TO EXIST. GROUND CONDITIONS WITHIN THE CANOPY DRIP LINE. "TREE PROTECTION ZONE" SIGNAGE TO BE ATTACHED TO PROTECTIVE FENCING.
10. A VEHICLE CROSSING APPLICATION SHALL BE SUBMITTED TO AND APPROVED BY COUNCIL PRIOR TO COMMENCEMENT OF WORK.
11. A ROAD-OPENING PERMIT SHALL BE OBTAINED FOR WORKS IN THE ROAD RESERVE PRIOR TO COMMENCEMENT OF WORK IN THE ROAD RESERVE.
12. ALL SERVICES (INCLUDING PITS & LIDS) SHALL BE ADJUSTED TO SUIT DESIGN FOOTPATH LEVELS. ALL SERVICES LIDS ON THE FOOTPATH PAVEMENT TO BE REPLACED WITH INFILL PAVER TYPE TO MATCH PROPOSED PAVEMENT FINISH



Project Number  
240195

Address  
72 ALLEYNE AVEUE,  
NORTH NARABEEN NSW 2101

Sheet Number  
C00

Revision  
A

Address  
**72 ALLEYNE AVEUE,  
NORTH NARABEEN NSW 2101**

Start Date: **AUGUST 2025**  
Project No. **240195**

Client:  
Architect:  
**WALSH ARCHITECTS**

Approved by: **K.E.**

| Internal Revisions: |         |          |          |
|---------------------|---------|----------|----------|
| Rev. #              | Drafter | Engineer | Date     |
| A                   | J.E.    | K.E.     | 29.08.25 |
| ISSUE FOR D.A.      |         |          |          |

- Notes
1. Drawings to be read in conjunction with architectural drawings.
  2. Refer to architectural drawings for all setback, levels.
  3. Do not scale any dimensions
  4. Drawings to be read & printed in colour.

**PRELIMINARY  
NOT FOR CONSTRUCTION**

Project North



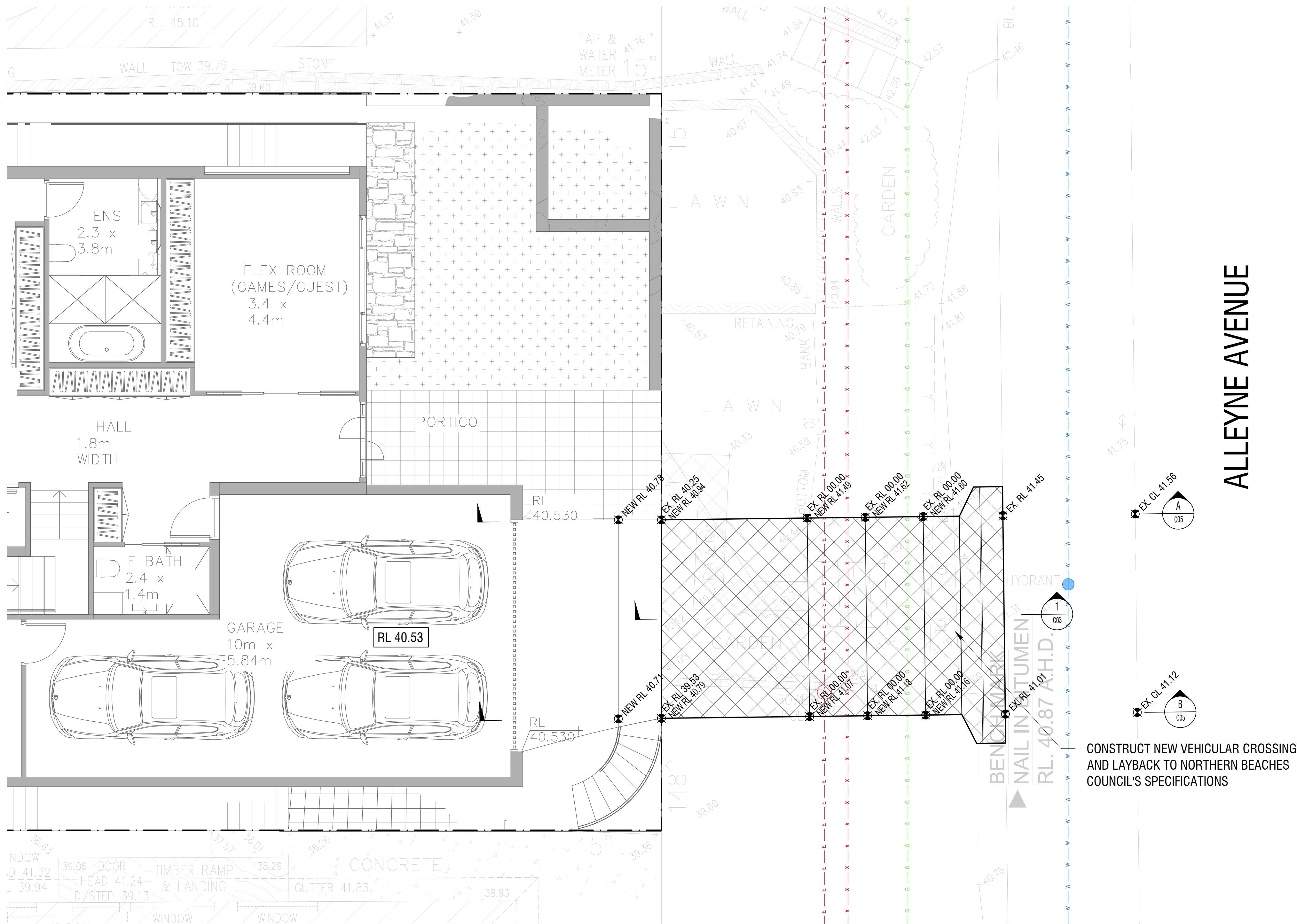
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Sheet Name:  
**CIVIL WORKS  
LAYOUT PLAN**

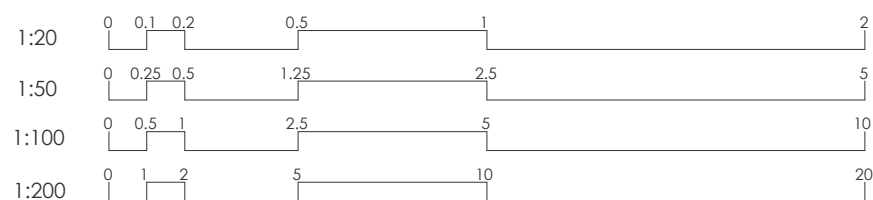
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Revision:

**C01**  
**A**



**CIVIL WORKS LAYOUT PLAN**  
SCALE 1:50



| Rev. # | Drafter | Engineer | Revision Description | Date     |
|--------|---------|----------|----------------------|----------|
| A      | J.E.    | K.E.     | ISSUE FOR D.A.       | 29.08.25 |

Notes

- Drawings to be read in conjunction with architectural drawings.
- Refer to architectural drawings for all setout, levels.
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- Drawings to be read & printed in colour.

**PRELIMINARY  
NOT FOR CONSTRUCTION**

Project North

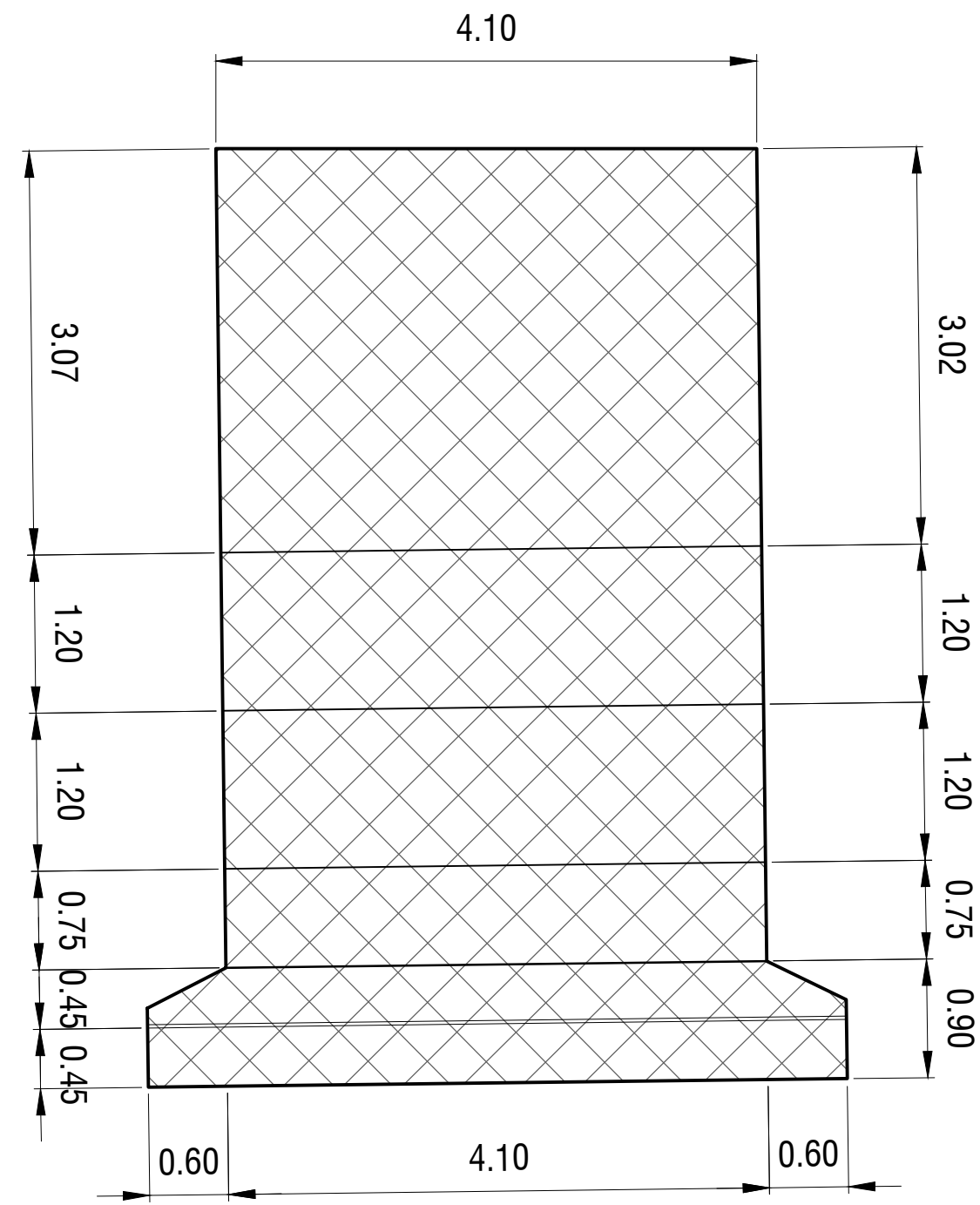
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Sheet Name:  
**TYPICAL DRIVEWAY  
SECTIONS AND DETAILS**

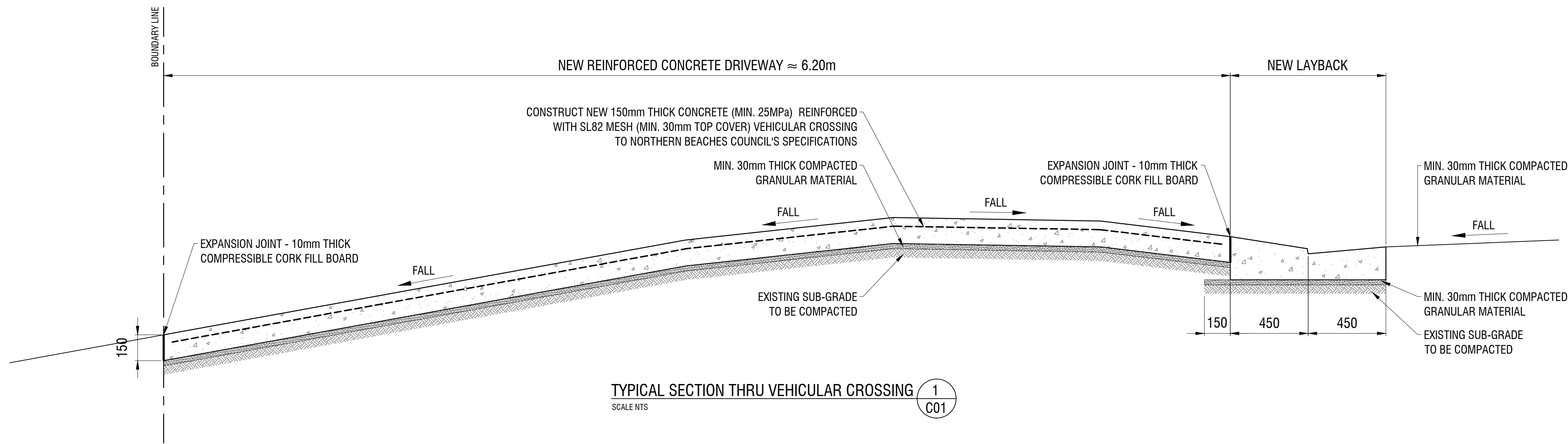
Sheet Number:

Revision:

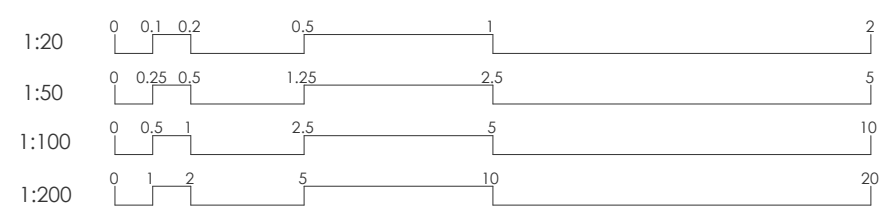
**C02**  
**A**



**DRIVEWAY INSET PLAN**  
SCALE 1:50

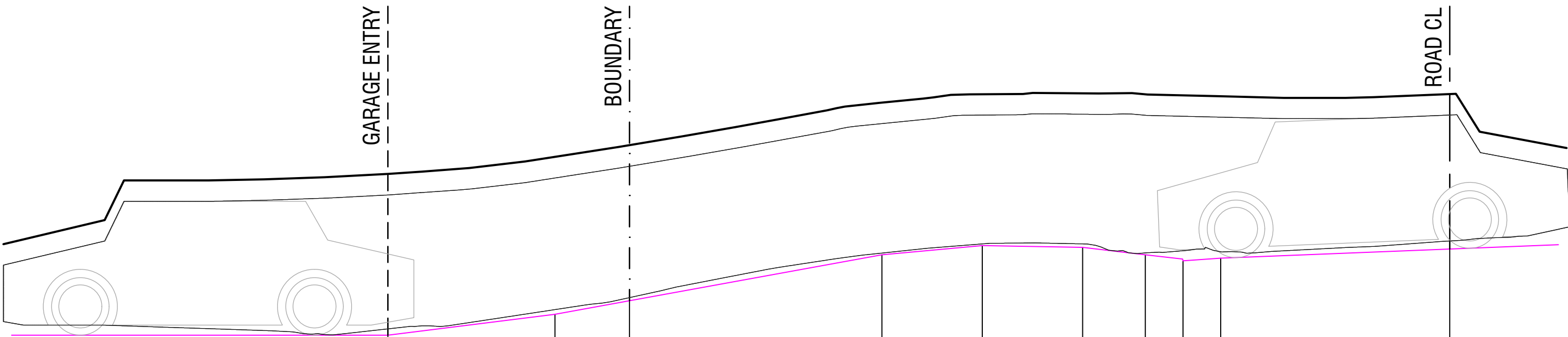


**TYPICAL SECTION THRU VEHICULAR CROSSING**  
SCALE NTS



STANDARDS 2004 (AU\_NZ)

B85



|              |       |        |       |        |  |        |  |       |  |       |  |       |       |       |  |  |  |         |  |       |
|--------------|-------|--------|-------|--------|--|--------|--|-------|--|-------|--|-------|-------|-------|--|--|--|---------|--|-------|
| DATUM 39.00  |       |        |       |        |  |        |  |       |  |       |  |       |       |       |  |  |  |         |  |       |
| SLOPE        |       | -12.5% |       | -18.2% |  | -10.8% |  | 1.7%  |  | 12%   |  |       |       |       |  |  |  | EX. -4% |  |       |
| DESIGN LEVEL | 40.53 |        | 40.78 | 40.94  |  | 41.49  |  | 41.62 |  | 41.60 |  | 41.51 | 41.41 |       |  |  |  |         |  |       |
| EX. LEVEL    |       |        |       | 40.25  |  |        |  |       |  |       |  |       |       | 41.45 |  |  |  |         |  | 41.56 |
| CHAINAGE     | -2.89 |        | -0.89 | 0.00   |  | 3.02   |  | 4.22  |  | 5.42  |  | 6.17  | 6.62  | 7.07  |  |  |  |         |  | 9.81  |

**DRIVEWAY LONGITUDINAL SECTION - A**

SCALE 1:50

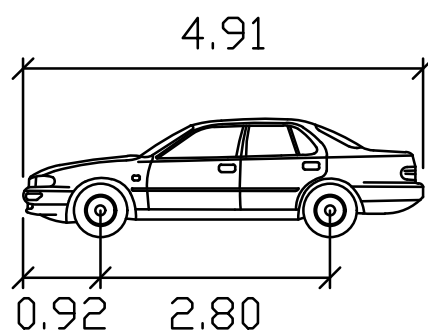
B85

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STANDARDS 2004 (AU\_NZ)

Ground Clearance (units: m)

| Part # | Front | Wheelbase | Rear |
|--------|-------|-----------|------|
| #1     | 0.12  | 0.12      | 0.12 |



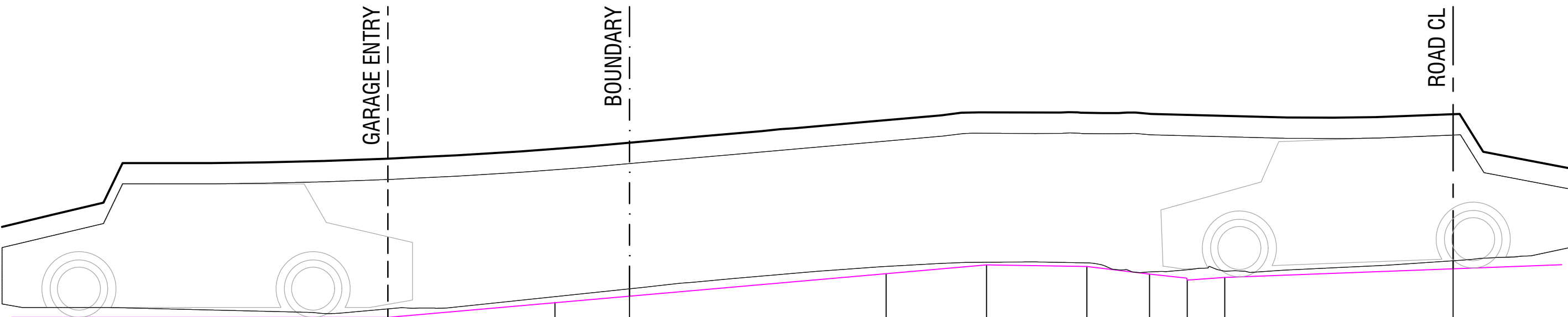
B85

meters

Width : 1.87  
Track : 1.77  
Lock to Lock Time : 6.0  
Steering Angle : 34.1

STANDARDS 2004 (AU\_NZ)

B85



|              |       |  |       |       |  |       |  |       |  |       |  |       |       |       |  |  |  |         |  |       |
|--------------|-------|--|-------|-------|--|-------|--|-------|--|-------|--|-------|-------|-------|--|--|--|---------|--|-------|
| DATUM 39.00  |       |  |       |       |  |       |  |       |  |       |  |       |       |       |  |  |  |         |  |       |
| SLOPE        |       |  |       | -9.1% |  |       |  | 1.7%  |  | 12%   |  |       |       |       |  |  |  | EX. -4% |  |       |
| DESIGN LEVEL | 40.53 |  | 40.71 | 40.79 |  | 41.07 |  | 41.18 |  | 41.16 |  | 41.07 | 40.97 |       |  |  |  |         |  |       |
| EX. LEVEL    |       |  |       | 39.53 |  |       |  |       |  |       |  |       |       | 41.01 |  |  |  |         |  | 41.12 |
| CHAINAGE     | -2.89 |  | -0.89 | 0.00  |  | 3.07  |  | 4.27  |  | 5.47  |  | 6.22  | 6.67  | 7.12  |  |  |  |         |  | 9.85  |

**DRIVEWAY LONGITUDINAL SECTION - B**

SCALE 1:50

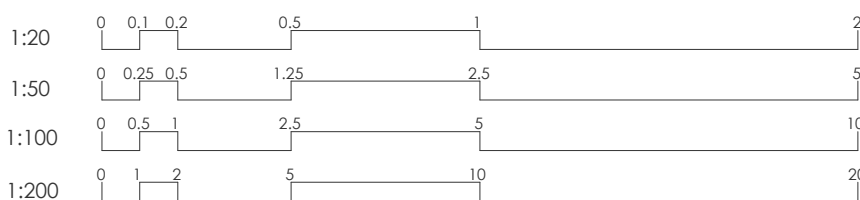
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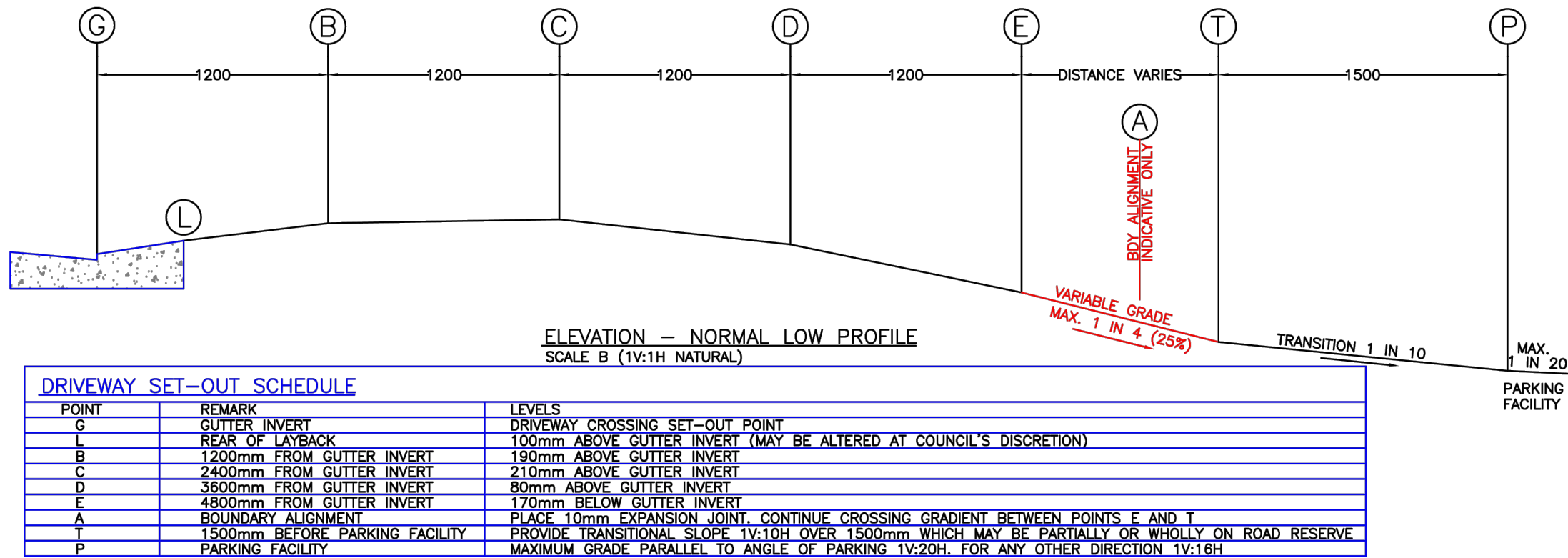
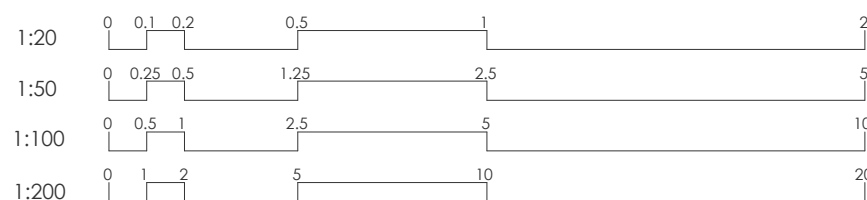
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STANDARDS 2004 (AU\_NZ)

Ground Clearance (units: m)

| Part # | Front | Wheelbase | Rear |
|--------|-------|-----------|------|
| #1     | 0.12  | 0.12      | 0.12 |





**CONCRETE DRIVEWAY NOTES**

- LAYBACK AND GUTTER SHALL BE CONSTRUCTED IN PLAIN CONCRETE AND FINISHED WITH A STEEL TROWEL.
- THE MINIMUM COMPRESSIVE STRENGTH FOR DRIVEWAYS SHALL BE 25MPa AT 28 DAYS. FOR COMMERCIAL OR INDUSTRIAL DRIVEWAYS THE SLAB DEPTH SHALL BE INCREASED TO MINIMUM OF 180mm WITH SLB2 STEEL MESH AND TOP COVER OF 30mm.
- THE SUBGRADE SHALL BE EVENLY COMPACTED USING A VIBRATORY COMPACTION EQUIPMENT UNTIL IT SHOWS NO SIGNS OF MOVEMENT, OR AS DIRECTED BY COUNCIL.
- ALL VEHICLE CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LEVELS AND SPECIFICATION ISSUED BY COUNCIL AND MUST COMPLY WITH AS/NZS 2890.1:2004 "OFF STREET CAR PARKING" CODE.
- ALL KERBING SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS AND SPECIFICATION ISSUED BY COUNCIL.
- WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE REPLACED, THE CONTRACTOR IS TO PLACE A 75mm DEEP SAW CUT IN THE GUTTER INVERT AND REMOVE THE KERB AND OR LAYBACK.
- WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE REPLACED, THE CONTRACTOR IS TO PLACE A 75mm DEEP SAW CUT IN THE GUTTER INVERT AND REMOVE THE KERB AND OR LAYBACK.
- WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE REPLACED, THE CONTRACTOR IS TO PLACE A 75mm DEEP SAW CUT IN THE GUTTER INVERT AND REMOVE THE KERB AND OR LAYBACK.
- THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS MUST BE PERFORMED BY A COUNCIL APPROVED CONTRACTOR.
- SAWCUT 500mm ASPHALT STRIP AND MATCH IN LAYBACK WITH ROAD SURFACE TO SMOOTH TRANSITION.

**VEHICLE CROSSING CONSTRUCTION NOTES**

- AT LEAST 48 HOURS' NOTICE OF INTENTION SHALL BE GIVEN TO COUNCIL ENGINEER TO POUR CONCRETE WITHIN THE ROAD RESERVE AND NO CONCRETE SHALL BE PLACED UNTIL THE FORMWORK HAS BEEN APPROVED AND AN INSPECTION NOTICE ISSUED.
- ALL DISTURBED AREAS OF THE FOOTWAY ADJACENT TO THE VEHICLE CROSSING SHALL BE TURFED AND FINISHED LEVEL WITH THE CONCRETE SURFACE. RAISED EDGES ARE UNACCEPTABLE.
- THE ROAD ADJOINING THE VEHICLE CROSSING SHALL BE BATTERED AND TURFED AT A MAXIMUM GRADIENT OF 1V:8H OR AS DIRECTED BY COUNCIL.
- CONCRETE FOOTPATH ADJUSTMENTS SHALL BE IN ACCORDANCE WITH COUNCIL'S SPECIFICATION AND SATISFACTION.
- THE SUBGRADE MUST BE THOROUGHLY COMPACTED BY THE USE OF VIBRATORY COMPACTION EQUIPMENT UNTIL IT SHOWS NO SIGNS OF MOVEMENT, OR AS DIRECTED BY COUNCIL.
- VEHICLE CROSSING SLABS MUST BE POURED IN PLAIN CONCRETE. SLAB SURFACE MUST BE COVE FINISHED (OR EQUIVALENT) AND EDGES TO BE FINISHED WITH A 50mm MARGIN.
- ALL CHANGES IN GRADE SHALL BE SCORED TO ENSURE NO RIDG/SHARP TRANSITIONS.
- THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 25MPa AT 28 DAYS.
- THE MINIMUM THICKNESS OF CONCRETE SHALL BE AS FOLLOWS:  
(a) SINGLE RESIDENTIAL DWELLING: 130mm THICK REINFORCED WITH SLB2 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB  
(b) MULTI-UNIT RESIDENTIAL: 150mm THICK REINFORCED WITH SLB2 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB  
(c) COMMERCIAL OR INDUSTRIAL: 180mm THICK REINFORCED WITH SLB2 MESH PLACED 30mm BELOW TOP OF CONCRETE SLAB
- THE VEHICLE CROSSING UP TO 2400mm FROM THE GUTTER INVERT SHALL BE GRADED PARALLEL WITH THE ROAD CENTRELINE.
- THE VEHICLE CROSSING SHALL BE CONSTRUCTED PERPENDICULAR TO THE ROAD PAVEMENT UNLESS OTHERWISE INSTRUCTED BY COUNCIL.
- THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS ON THE ROAD RESERVE MUST BE COMPLETED BY A COUNCIL APPROVED CONCRETE CONTRACTOR.
- NO TREE ROOTS GREATER THAN 50mm IN DIAMETER ARE TO BE REMOVED UNLESS AUTHORISED BY A QUALIFIED ARBORIST.
- ANY ROOTS APPROVED FOR REMOVAL SHALL BE CLEAN CUT WITH SHARP TOOLS SUCH AS SECATORS, PRUNERS, HANDSAWS, CHAINSAWS OR SPECIALISED ROOT PRUNING EQUIPMENT.

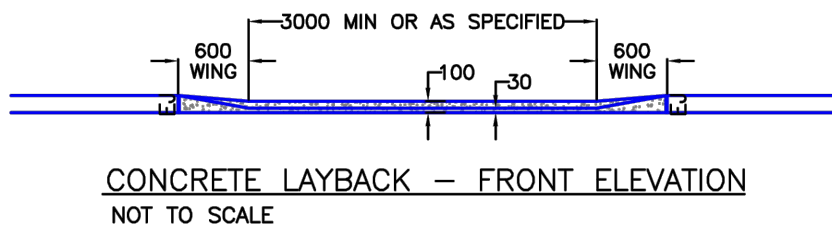
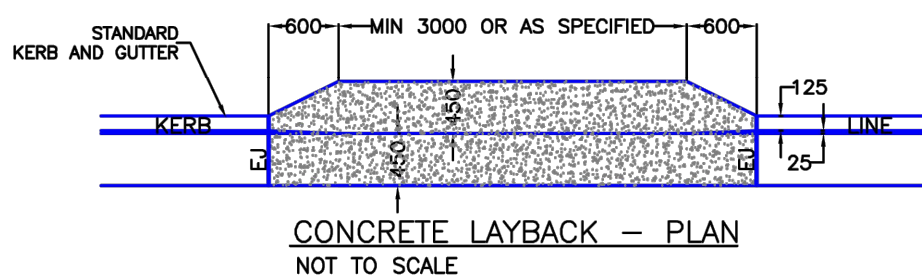
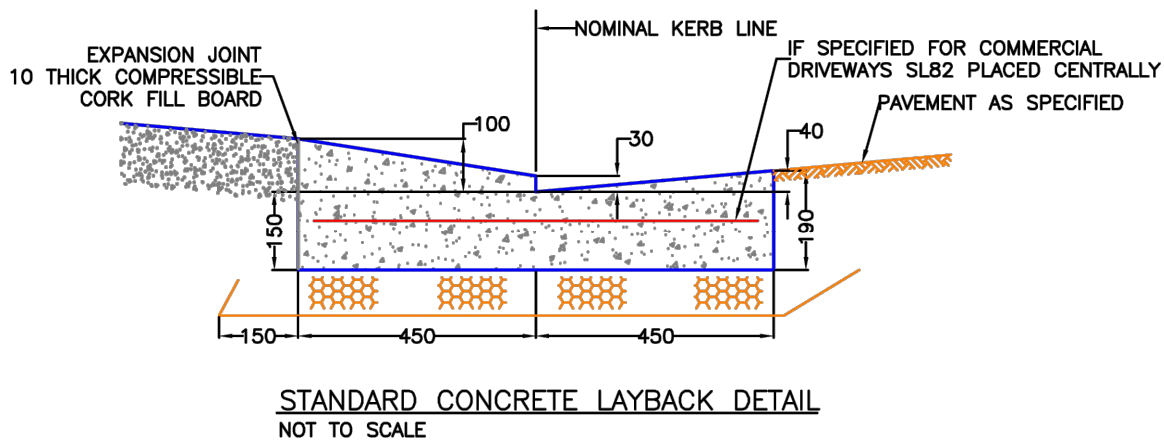
**IMPORTANT DRIVEWAY DESIGN NOTES:**

- THE STANDARD DRIVEWAY PROFILES SHOWN MAY NOT SUIT ALL TERRAIN CONDITIONS.
- THESE STANDARD DRIVEWAY PROFILES MAY NEED TO BE MODIFIED TO SUIT.
- THE STANDARD DRIVEWAY PROFILES SHOWN MAY NOT TAKE INTO CONSIDERATION CONNECTING FOOTPATHS WHERE THE FOOTPATH MEETS THE DRIVEWAY. FOR DISABLED ACCESSIBILITY, A SECTION OF THE DRIVEWAY MAY NEED TO BE DESIGNED WITH A MAXIMUM 2.5% CROSS-FALL GRADED TOWARDS THE KERB OR ROAD SIDE. ALSO THE STANDARD DRIVEWAY PROFILES SHOWN HAS NOT BEEN DESIGNED TO ACCOMMODATE ANY SPECIAL NEEDS, FOR EXAMPLE, IN A FLOOD PLANNING AREA WHERE A MINIMUM FREE BOARD CREST IS REQUIRED TO PROTECT THE PARKING FACILITY.
- WHERE MODIFICATION OF THE DRIVEWAY IS REQUIRED TO MEET EXISTING OR PROPOSED CROSS FALLS OR LEVELS, THE FINAL DESIGN PROFILE MUST BE CHECKED AGAINST THE AUSTRALIAN STANDARD AS/NZS 2890.1:2004 "OFF STREET CAR PARKING" CODE FOR SCRAPING AND BOTTOMING USING THE 85TH PERCENTILE PASSENGER VEHICLE.
- THE DESIGNER WILL NEED TO LIAISE WITH COUNCIL TO DEVELOP A SUITABLE DESIGN SOLUTION.

| LEVEL DATUM AND CO-ORD SYSTEM | PLAT DATE                 | DESIGN APPROVED          | APPROVED FOR CONSTRUCTION | A | 0 0.1 0.2 0.3 0.4 0.5 | 1:20 @ A3  |
|-------------------------------|---------------------------|--------------------------|---------------------------|---|-----------------------|------------|
| SUBMITTED N.A.                | PRELIMINARY               | DESIGNED BY THOMAS LAU   | PROG. HIGH N.A.           | B | 0 0.2 0.4 0.6 0.8     | 1:40 @ A3  |
| WORK-AS-DISCOVERED            | DATED: 20/04/18           | DATED: 20/04/18          | DATE: (N/A/2018)          | C | 0 0.5 1.0 1.5 2.0 2.5 | 1:100 @ A3 |
| BY N.A.                       | INITIATED BY STEVE WATSON | APPROVED BY E. JAMENSTEN | APPROVED BY THOMAS LAU    |   |                       |            |
| DATE: 20/04/2025              | (SHEET MANAGER)           | DESIGN MANAGER           | PRINCIPAL, CHAIRMAN       |   |                       |            |

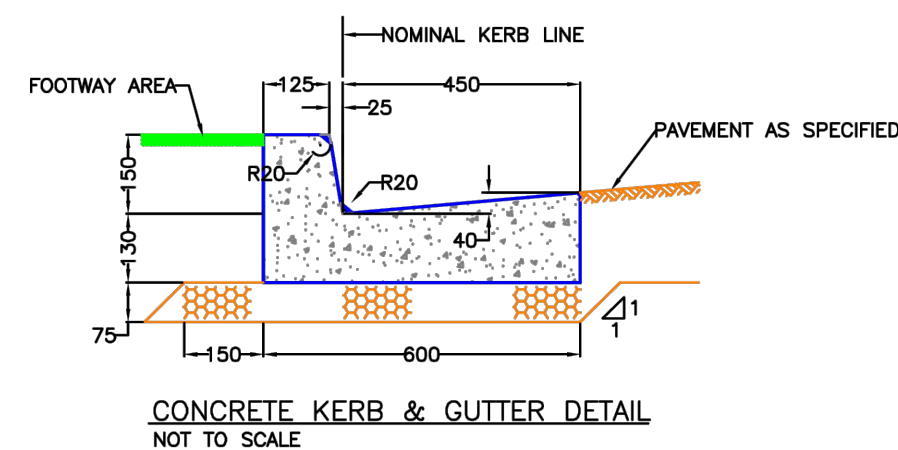
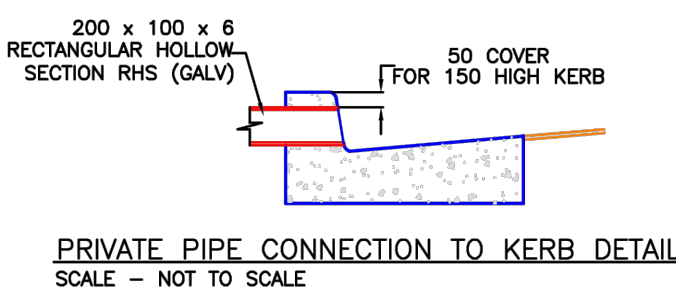
**northern beaches council**

STANDARD DRAWINGS  
CONCRETE KERN & GUTTER DETAILS & NOTES  
DRAWING NO. 3  
REVISION: 1



**STANDARD KERB AND GUTTER NOTES**

- KERB AND GUTTER, CONCRETE EDGING, DISH DRAINS AND THE LIKE SHALL BE POURED IN PLAIN CONCRETE AND FINISHED WITH A STEEL TROWEL.
- THE MINIMUM COMPRESSIVE STRENGTH SHALL BE 25MPa AT 28 DAYS.
- FOR ELEMENTS CONSTRUCTED USING SLIPFORM, REINFORCEMENT WILL NOT BE REQUIRED PROVIDED THAT THE CONCRETE COMPRESSIVE STRENGTH IS NOT LESS THAN 32MPa AT 28 DAYS.
- WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE RETAINED, THE CONTRACTOR SHALL PLACE A 75mm DEEP SAW CUT IN THE GUTTER INVERT AND REMOVE THE KERB AND OR LAYBACK.
- WHERE COUNCIL OR ITS REPRESENTATIVE DIRECTS THAT THE GUTTER IS TO BE REPLACED, THE CONTRACTOR IS TO PLACE A 75mm DEEP SAW CUT IN THE GUTTER INVERT AND REMOVE THE KERB AND OR LAYBACK.
- THE CONSTRUCTION OF ALL VEHICLE CROSSINGS AND ASSOCIATED WORKS MUST BE PERFORMED BY A COUNCIL APPROVED CONTRACTOR.



| LEVEL DATUM AND CO-ORD SYSTEM | PLAT DATE                 | DESIGN APPROVED          | APPROVED FOR CONSTRUCTION | A | 0 0.1 0.2 0.3 0.4 0.5 | 1:20 @ A3  |
|-------------------------------|---------------------------|--------------------------|---------------------------|---|-----------------------|------------|
| SUBMITTED N.A.                | PRELIMINARY               | DESIGNED BY THOMAS LAU   | PROG. HIGH N.A.           | B | 0 0.2 0.4 0.6 0.8     | 1:40 @ A3  |
| WORK-AS-DISCOVERED            | DATED: 20/04/18           | DATED: 20/04/18          | DATE: (N/A/2018)          | C | 0 0.5 1.0 1.5 2.0 2.5 | 1:100 @ A3 |
| BY N.A.                       | INITIATED BY STEVE WATSON | APPROVED BY E. JAMENSTEN | APPROVED BY THOMAS LAU    |   |                       |            |
| DATE: 20/04/2025              | (SHEET MANAGER)           | DESIGN MANAGER           | PRINCIPAL, CHAIRMAN       |   |                       |            |

**northern beaches council**

STANDARD DRAWINGS  
CONCRETE KERN & GUTTER DETAILS & NOTES  
DRAWING NO. 3  
REVISION: 1