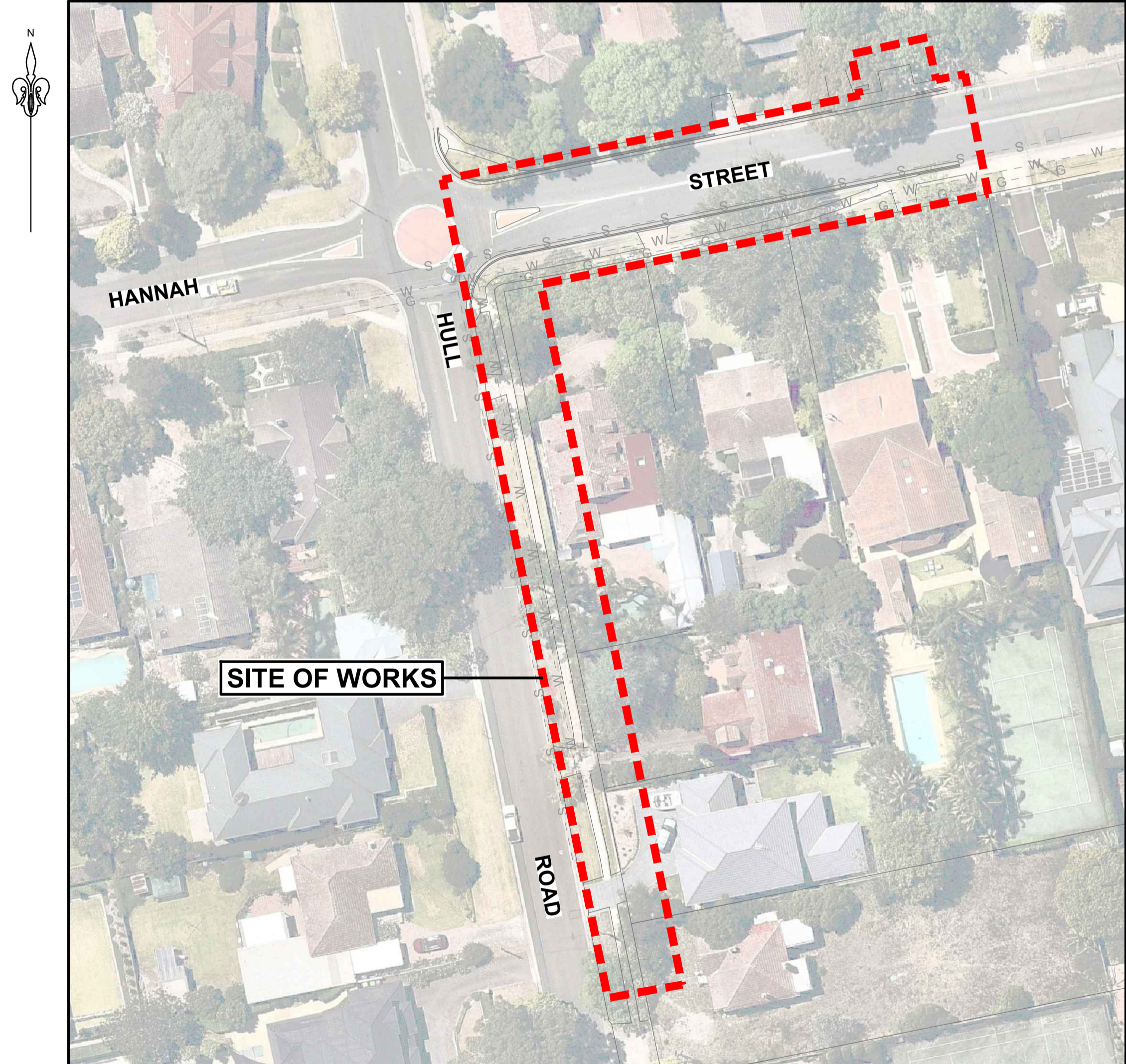


# PROPOSED FOOTPATH RECONSTRUCTION HULL ROAD AND HANNAH STREET

## CIVIL WORKS CONSTRUCTION CERTIFICATE



LOCALITY PLAN (SOURCE: NEARMAP)  
NOT TO SCALE

DRAWING No.	DRAWING TITLE	REV
043-17C-CC-1001	COVER SHEET, LOCALITY PLAN AND AND INDEX SHEET	D
043-17C-CC-1002	GENERAL NOTES AND LEGEND	B
043-17C-CC-1003	KEY PLAN	B
043-17C-CC-1101	PROPOSED FOOTPATH RECONSTRUCTION PLAN SHEET 1 OF 3	D
043-17C-CC-1102	PROPOSED FOOTPATH RECONSTRUCTION PLAN SHEET 2 OF 3	B
043-17C-CC-1103	PROPOSED FOOTPATH RECONSTRUCTION PLAN SHEET 3 OF 3	C
043-17C-CC-1201	PROPOSED FOOTPATH LONGITUDINAL SECTIONS	B
043-17C-CC-1301	PROPOSED BUS STOP DETAILS	B
043-17C-CC-1302	PROPOSED TRAFFIC ISLAND DETAILS	D
043-17C-CC-1551	TURNING PATH (BUS 14.5m)	A
043-17C-CC-1801	PROPOSED BUS STOP STRUCTURAL DETAILS	B
043-17C-CC-1901	SEDIMENT AND EROSION CONTROL PLAN AND DETAILS	B



CONSTRUCTION CERTIFICATE

<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>AMENDMENT DESCRIPTION</th> <th>DES.</th> <th>DRN.</th> </tr> <tr> <td>D</td> <td>14.07.20</td> <td>COUNCIL RFI ADDRESSED</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>16.06.20</td> <td>PEDESTRIAN REFUGE AMENDED</td> <td>A.H.</td> <td>E.F.</td> </tr> <tr> <td>B</td> <td>11.05.20</td> <td>CLIENT'S COMMENTS ADDRESSED</td> <td>A.H.</td> <td>A.DL.</td> </tr> <tr> <td>A</td> <td>27.04.20</td> <td>ISSUED FOR CONSTRUCTION CERTIFICATE</td> <td>A.H.</td> <td>E.F.</td> </tr> </table>	REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.	D	14.07.20	COUNCIL RFI ADDRESSED			C	16.06.20	PEDESTRIAN REFUGE AMENDED	A.H.	E.F.	B	11.05.20	CLIENT'S COMMENTS ADDRESSED	A.H.	A.DL.	A	27.04.20	ISSUED FOR CONSTRUCTION CERTIFICATE	A.H.	E.F.		Authorised for issue by: Signature: _____	Principal: CAXTON PROPERTY GROUP LGA: HORNSBY SHIRE COUNCIL Scale: AS SHOWN Datum: AHD	Project: PROPOSED FOOTPATH RECONSTRUCTION HULL ROAD AND HANNAH STREET			ABN 77 050 209 991 ACN 050 209 991 Suite 7.01, Level 7, 3 Rider Boulevard, Rhodes, NSW 2138 PO Box 3220, Rhodes NSW 2138 Tel. 9669-1855 reception@craigandrhodes.com.au www.craigandrhodes.com.au © Craig & Rhodes Pty Ltd	Drawing Title: COVER SHEET, LOCALITY PLAN AND AND INDEX SHEET C&R Ref: 043-17 Drawing Ref: 043-17C-CC-1001 Revision: D
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# GENERAL NOTES

- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH HORNSBY SHIRE COUNCIL'S ENGINEERING GUIDE FOR DEVELOPMENT AND WORKS SPECIFICATION CIVIL.
- AVERAGE GRADIENT FROM PROPOSED SITE (LOT 1 D.P.4898 No.14 HULL ROAD) TO EXISTING BUS STOP IS 1.5%. (MAXIMUM ALLOWABLE AVERAGE GRADIENT IS 1 IN 14 (7.14%).)
- REFERENCE: DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES, HOUSING FOR SENIORS OR PEOPLE WITH A DISABILITY SEPP (SENIORS LIVING) 2004.
- SERVICES SHOWN ON THESE PLAN ARE NOT GUARANTEED COMPLETE OR CORRECT AND HAVE BEEN LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT SERVICE PROVIDERS AND FIELD INVESTIGATIONS. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE RELEVANT SERVICE PROVIDERS TO RELOCATE OR ADJUST AS FOUND NECESSARY.
- UTILITY ADJUSTMENTS ARE TO BE AT THE DEVELOPER'S EXPENSE.
- CONDUITS SHALL BE PLACED WHERE REQUIRED BY THE RELEVANT AUTHORITIES.
- THE CONTRACTOR SHALL NOT ENTER UPON OR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT PRIOR WRITTEN PERMISSION OF THE LAND OWNER.
- THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO THE PUBLIC FOOTWAYS, ROADWAYS AND PROPERTIES ADJACENT TO THE SITE IN A SAFE CONDITION TO THE SATISFACTION OF COUNCIL'S ENGINEER.
- THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS. SURVEY MARKS SHOWN THUS  $\Delta$   $\nabla$   $\square$  SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE SUPERINTENDENT SHALL BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
- BENCHMARK, SSM'S PERMANENT MARKS TO BE AHD.
- CONSTRUCTION/CIVIL WORK MAY ONLY BE CARRIED OUT ON THE SITE BETWEEN THE HOURS OF 7.00am to 5.00pm MONDAY TO FRIDAY AND 8.00am to 1.00pm ON SATURDAY. NO WORK PERMITTED TO BE CARRIED OUT ON SUNDAYS OR PUBLIC HOLIDAYS UNLESS OTHERWISE APPROVED BY HORNSBY SHIRE COUNCIL.
- PLANT, GOODS & MATERIALS SHALL NOT BE DELIVERED ON THE SITE OUTSIDE THE APPROVED HOURS OF OPERATION.
- THE CONTRACTOR SHALL CLEAR AND DISPOSE OF ONLY THOSE TREES THAT HAVE BEEN APPROVED TO BE REMOVED. TREES THAT ARE NOT TO BE REMOVED SHALL BE PRESERVED. NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL FROM HORNSBY SHIRE COUNCIL.
- FELLED TREES SHALL BE SALVAGED FOR REUSE AS WOODCHIP MULCH OR LOG FORM FOR SITE REHABILITATION. NON-SALVAGEABLE MATERIAL SUCH AS STUMPS AND ROOTS SHALL BE DISPOSED OFF SITE AS NOMINATED BY THE SUPERINTENDENT.
- SITE SHEDS, STOCKPILES, MATERIALS AND VEHICLE PARKING SHALL BE LOCATED AWAY FROM TREES ON THE SITE TO PREVENT SOIL COMPACTION. STOCKPILING OF MATERIALS SHALL NOT BE PERMITTED WITHIN TREE PROTECTION AREAS. ALL AREAS FOR STOCKPILING SHALL BE APPROVED BY THE SUPERINTENDENT.
- ALL SOIL AND WATER MANAGEMENT DEVICES SHALL BE INSTALLED AND APPROVED PRIOR TO WORKS PROCEEDING.
- ALL EROSION AND POLLUTION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AND REPAIR THROUGHOUT THE COURSE OF BUILDING CONSTRUCTION OR DEVELOPMENT WORK ON THE SITE AND UNTIL THE WORKS HAVE BEEN COMPLETED TO THE SATISFACTION OF COUNCIL.
- TEMPORARY REHABILITATION MUST BE APPLIED AND ESTABLISHED TO DISTURBED AREAS AS SOON AS PRACTICAL AFTER COMPLETION OF EARTHWORKS.
- TOPSOIL IS TO BE STRIPPED AND STOCKPILED ON THE SITE WITH EROSION CONTROL MEASURES PROVIDED AS DETAILED. UPON COMPLETION OF WORKS, MINIMUM 150mm THICK TOPSOIL SHALL BE SPREAD ON ALL FOOTPATHS, BERMS, BATTERS AND SITE REGRADED AREAS. EXCESS TOPSOIL SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT.
- ALL EARTHWORKS TO BE IN ACCORDANCE WITH A.S.3798 & TO BE CARRIED OUT TO THE SATISFACTION OF SUPERINTENDENT. UNSOUND MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING.
- SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF IN CONSULTATION WITH SUPERINTENDENT. DOCUMENTATION OF THE DISPOSAL SITE SHALL BE PROVIDED TO COUNCIL PRIOR TO COMMENCEMENT OF WORKS.
- ALL SITE FILLING SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm AND COMPACTED TO 95% STANDARD COMPACTION AND SHALL BE CONTROLLED BY AN APPROVED N.A.T.A. SOILS LABORATORY.
- WHERE LOT FILLING IN EXCESS OF 300mm IS PROPOSED, LEVELS ARE TO BE TAKEN ON THE STRIPPED SURFACE PRIOR TO THE COMMENCEMENT OF FILLING AND ON THE FINISHED SURFACE. SUCH LEVELS ARE TO BE SHOWN ON THE WORK-AS-EXECUTED PLAN.
- ALL LAND DISTURBED BY EARTHWORKS SHALL BE SPRAY-GRASSED, 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 CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
- CATCH DRAINS TO BE CONSTRUCTED AS REQUIRED BY THE SITE SUPERINTENDENT AND/OR COUNCIL'S ENGINEER.
- CONDUIT TRENCHES, SUB-SOIL DRAINS AND STORMWATER DRAINAGE LINES TO BE BACKFILLED WITH APPROVED WASHED RIVER SAND, FLOODED AND VIBRATED. CONDUIT TRENCHES TO BE GRADED AT A MINIMUM ONE PERCENT (1%) GRADE TO EITHER SUB-SOIL OR STORMWATER DRAINAGE LINES.
- SUB-GRADE IN ROCK IS TO BE RIPPED, SCARIFIED, SPREAD AND COMPACTED TO A MINIMUM DEPTH OF 300mm BELOW THE FINISHED SUB-GRADE LEVEL.
- DETAILS OF ALL SOIL TESTS AND THE PAVEMENT DESIGN ARE TO BE SUBMITTED TO PRINCIPAL CERTIFYING AUTHORITY (PCA) PRIOR TO INSPECTION OF SUBGRADE.
- NO BUILDING MATERIALS, MACHINERY OR THE LIKE ARE TO BE STORED ON THE ROAD OR FOOTPATH. THE PATHWAY IS TO BE KEPT IN A CLEAN, TIDY & SAFE CONDITION DURING THE CONSTRUCTION PERIOD.
- ALL NEW WORKS SHALL MAKE SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- THE SITE IS TO BE SURROUNDED BY A SECURITY FENCE & THE GATE MUST BE LOCKED OUTSIDE THE OPERATING HOURS. NOTICES COMPLYING WITH AS 1319-1994 AND DISPLAYING THE WORDS "DANGER - DEMOLITION IN PROGRESS", OR SIMILAR MESSAGE SHALL BE FIXED TO THE FENCING AT APPROPRIATE PLACES TO WARN THE PUBLIC.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM 24 HOURS NOTICE TO SUPERINTENDENT OR

- COUNCIL'S ENGINEER FOR ALL INSPECTIONS.
- THE CONTRACTOR SHALL UNDERTAKE TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH COUNCIL'S TRAFFIC MANAGEMENT POLICY AND SHALL DISPLAY ALL APPROPRIATE WARNING SIGNS THROUGHOUT THE DURATION OF CONSTRUCTION.
- ALL TRAFFIC CONTROL DEVICES SHALL REMAIN ERECTED OUTSIDE WORKING HOURS WITH FLASHING YELLOW LIGHTS ON BARRIER BOARDS TO BE IN OPERATION AFTER DARK.
- ROADS ADJOINING THE SITE MUST BE KEPT CLEAN AND FREE OF ALL EXCAVATED/TRANSPORTED SPOIL MATERIAL.
- SITE FILLING AND COMPACTION IS TO BE CARRIED OUT UNDER THE SUPERVISION OF A CHARTERED GEOTECHNICAL ENGINEER AND SHALL BE IN ACCORDANCE WITH HORNSBY SHIRE COUNCIL. "WORKS SPECIFICATION - CIVIL (CURRENT REVISION)". MINIMUM STANDARD COMPACTION OF 95% MUST BE ACHIEVED AND CERTIFIED BY "NATA" REGISTERED LAB AND DETAILS SUBMITTED TO COUNCIL.
- RESIDENTIAL LOTS TO BE INDIVIDUALLY CLASSIFIED.
- AGRICULTURAL LINES TO BE PLACED AS DIRECTED
- STRUCTURAL CERTIFICATION IS REQUIRED FOR CONSTRUCTION OF MAJOR AND NON-STANDARD STRUCTURES
- DRIVEWAYS/LAYBACKS TO HAVE MINIMUM 1.0m CLEARANCE FROM ANY PROPOSED & EXISTING UTILITIES, INCLUDING: ELECTRICAL TURRETS, LIGHT POLES, TELECOMMUNICATION PITS, STORMWATER GULLY PITS & STREET TREES. DRIVEWAYS/LAYBACKS TO HAVE A 6.0m CLEARANCE FROM KERB-RETURN TANGENT POINTS
- VEHICULAR CROSSINGS ARE TO BE 4.0 METERS WIDE AT KERB AND GUTTER.
- SUBSOIL DRAINAGE SHALL BE PROVIDED ALONG THE CUT SIDE OF ALL NEW ROADS WHERE NO DRAINAGE IS PROVIDED, ALONG THE CENTRE LINE OF HALF ROAD CONSTRUCTION WORKS, AT LOW SPOTS, WHERE REQUIRED BY THE PAVEMENT DESIGN REPORT, AND WHERE DIRECTED BY COUNCIL'S ENGINEER.
- LIGHT POLES STREET NAMES POLES AND BUS SHELTERS IN THIS SUBDIVISION WILL BE BLACK POWDER COATED TO THE SATISFACTION OF HORNSBY SHIRE COUNCIL. FURTHER THAT THESE LIGHT POLES WILL COMPLY WITH COUNCIL SPECIFICATIONS.
- THESE NOTES ARE TO BE READ IN CONJUNCTION WITH LANDCOM'S SOILS AND CONSTRUCTION 'MANAGING URBAN STORMWATER'.
- SEDIMENT AND EROSION CONTROL SHALL BE IMPLEMENTED PRIOR TO AND MAINTAINED DURING AND AFTER THE CONSTRUCTION WORKS.
- SOIL AND SEDIMENT CONTROL DEVICES SHALL BE AS SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SEDIMENT FROM SUCH DEVICES BEFORE 50% CAPACITY IS USED. ALL THE ACCUMULATED SEDIMENT SHALL BE RE-SPREAD OR REMOVED IN ACCORDANCE WITH THE SUPERINTENDENTS INSTRUCTIONS. THE DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE DISTURBED AREAS HAVE BEEN REHABILITATED TO A CONDITION SATISFACTORY TO THE SUPERINTENDENT.
- NO DISTURBANCE OF SITE PERMITTED OTHER THAN THE IMMEDIATE AREA OF THE WORKS.
- COUNCIL TO RE-INSPECT TREES PRIOR TO THE CONSTRUCTION WORKS COMMENCING.
- NO TREES ARE TO BE REMOVED WITHOUT PRIOR COUNCIL CONSENT.
- VEHICULAR ACCESS TO THE SITE SHALL BE CONTROLLED THROUGH THE ACCESS POINTS IDENTIFIED ON THE DRAWINGS. VEHICLES NOT REQUIRED IN THE PERFORMANCE OF THE WORKS SHALL BE PARKED OFF SITE AWAY FROM DISTURBED AREAS.
- A VEHICLE WASHDOWN BAY INCLUDING A 25mmØ HOSE SHALL BE PROVIDED.
- THESE PLANS ARE SUPPLEMENTARY TO THE CONTRACTORS EMP FOR CONSTRUCTION AND SHALL BE READ IN CONJUNCTION WITH THE BUILDING CONTRACTORS E&SC PLANS
- THE CONTRACTOR SHALL ENSURE TEMPORARY CONTROLS DO NOT DAMAGE EXISTING STRUCTURES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.
- ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED FOLLOWING EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SITE.
- THE CONTRACTOR SHALL INFORM ALL SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF THE DAYS ACTIVITIES.
- THE CONTRACTOR MUST ENSURE THE SUITABILITY AND INTEGRITY OF ALL WORKS AT THE END OF EACH DAYS WORK.
- NOMINATED UNDISTURBED AREAS SHALL BE BARRICADED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- PUBLIC ROADS ARE TO BE SWEEP FREE OF DEBRIS RESULTING FROM CONSTRUCTION ACTIVITIES. SWEEPING SHALL BE UNDERTAKEN AT A MINIMUM TWICE WEEKLY.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED ON EXISTING ACCESS TRACKS OR ROADWAYS SO AS NOT TO ENCRONCH ON TRAFFIC. ALL EROSION CONTROL MEASURES PLACED SHALL BE CLEARLY IDENTIFIABLE DURING BOTH DAY AND NIGHT. EROSION CONTROL MEASURES SHALL BE COORDINATED WITH THE CONTRACTORS TRAFFIC MANAGEMENT PLANS IN ORDER TO LIMIT 'CLUTTERING' OF THE EXISTING TRAFFICABLE AREAS.
- PROVIDE 150mm TOPSOIL WITH TURF OR GRASS SEEDING ON ALL BATTERS & DISTURBED AREAS.
- TURFED AREAS ADJACENT TO CONSTRUCTION AREA ARE TO BE MAINTAINED TO PROVIDE A VEGETATED BUFFER STRIP.
- THE CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL PRIOR TO EXCAVATION OR FILLING. TOPSOIL SHALL BE RESPREAD ON THE COMPLETION OF EARTHWORKS.
- THE CONTRACTOR SHALL STABILISE ALL DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS.
- THE CONTRACTOR SHALL INSTALL A MIN. 300mm WIDE STRIP OF TURF BEHIND THE KERB.
- THE CONTRACTOR SHALL PROVIDE A MIN. 1m WIDE TURFING AROUND ALL SURFACE INLET PITS.

## TOPSOIL

- PRIOR TO SPREADING, STOCKPILED SITE SUBGRADE MATERIAL AND/OR IMPORTED TOPSOIL SHALL BE INSPECTED AND APPROVED BY THE SUPERINTENDENT.
- UNLESS NOTED OTHERWISE, ALLOW FOR CLEARING AND REMOVING STONES EXCEEDING 25 mm AND ANY RUBBISH BROUGHT TO THE SURFACE DURING THE CULTIVATION OF THE SUBGRADE.

- AFTER PREPARATION OF THE SUBGRADE SURFACE, PLACE TOPSOIL AS APPROPRIATE FOR THE SPECIFIED LANDSCAPE TREATMENTS AND AS INDICATED BY THE DRAWINGS.
- THE FINISHED SURFACE OF THE TOPSOIL SHALL BE SMOOTH, FREE OF LUMPS OF SOIL AND LEFT READY FOR CULTIVATING AND PLANTING.
- WHERE TOPSOILING IS CARRIED OUT ADJACENT TO KERBS, FOOTPATHS, MOWING STRIPS OR OTHER HARD PAVED SURFACES, THE TOPSOIL SHALL BE FINISHED FLUSH WITH THOSE SURFACES UNLESS OTHERWISE SPECIFIED.

## TURF AND PLANTING

- ALL TURF AND OTHER MATERIALS SPECIFIED SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE SUPERINTENDENT.
- SUBSTITUTION OF SPECIES SHALL ONLY OCCUR WITH THE PRIOR APPROVAL OF THE SUPERINTENDENT.
- PROTECT THE NEWLY PLANTED AREAS AGAINST TRESPASS AND TRAFFIC UNTIL THE GRASS IS WELL ESTABLISHED. FENCING, WHERE USED, SHALL BE 1.2m HIGH STAR PICKET TYPE, WITH MAXIMUM POST SPACING OF 5m.
- ALLOW FOR MAKING OVER AND RE-TURFING ALL AREAS WHERE THE GRASS FAILS TO GROW WITHIN ONE MONTH FROM THE DATE OF ORIGINAL PLANTING.

## CONCRETE NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600.
- EXPOSURE CLASSIFICATIONS  
B1 (EXTERNAL ELEMENTS)  
B1 (INTERNAL ELEMENTS)
- READY-MIX CONCRETE IN ACCORDANCE WITH AS1379.  
REFER ALSO ELEMENTS FOR GRADES.  
SLUMP 80 +/- 15  
20 AGGREGATE  
NO ADDITION OF WATER PERMITTED ON SITE.  
ALL CONCRETE MUST BE VIBRATED.  
CONCRETE STRENGTH AS PER ATTACHED DETAILS.
- ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY PLASTIC BAR CHAIRS. WIRE CHAIRS NOT PERMITTED. COVERS MUST BE MAINTAINED AT ALL TIMES INCLUDING DRIP GROOVES. ENSURE TIE WIRES DO NOT PROTRUDE INTO THE COVER ZONES.
- IN HOT AND/OR WINDY WEATHER APPLY ALIPHATIC ALCOHOL TO THE SCREEDED CONCRETE TO MINIMISE MOISTURE LOSS AND PLASTIC SHRINKAGE CRACKING. NOTE - THIS DOES NOT REPLACE CURING.
- CURE ALL SLABS FOR 7 DAYS MINIMUM BY AN APPROVED METHOD.  
NOTE - CURING MUST BE IN PLACE WITHIN 3 HOURS OF COMPLETING THE SLABS.  
LEAVE FORMWORK IN PLACE.  
COVER WITH PLASTIC SHEET (SECURELY HELD DOWN).  
SPRAYED CURING COMPOUND COMPLYING WITH AS3799.
- NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER. SHEAR KEYS AND SCABBING OF CONCRETE REQUIRED TO ALL VERTICAL JOINTS IN SUSPENDED SLABS AND BATTERS.
- REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION OR SCALE.
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN OR AS OTHERWISE APPROVED IN WRITING BY THE ENGINEER.
- WELDING OR SITE BENDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.
- STANDARD COGS UNO. REFER ALSO SECTIONS, BEAM ELEVATIONS.
- REINFORCEMENT SYMBOLS :  
S STRUCTURAL GRADE DEFORMED BAR TO AS4671.  
R STRUCTURAL GRADE PLAIN BAR TO AS4671.  
N HOT ROLLED DEFORMED BAR TO AS/NZS 4671.  
SL,RL WELDED WIRE REINFORCING FABRIC TO AS4671.

## LEGEND

- EXISTING O/H ELECTRICAL LINE
- EXISTING ELECTRICAL LINE
- EXISTING WATER LINE
- EXISTING TELECOMS LINE
- EXISTING SEWER LINE
- EXISTING NBN LINE
- PROPOSED STORMWATER DRAINAGE LINE
- FUTURE STORMWATER DRAINAGE LINE
- EXISTING DRAINAGE LINE
- PROPOSED OVERLAND FLOWPATH
- PROPOSED STORMWATER HEADWALL & PITS
- FUTURE STORMWATER HEADWALL & PITS
- EXISTING STORMWATER HEADWALL & PITS
- DESIGN CONTOUR
- EXISTING CONTOUR
- PIT NUMBER

B	11.05.20	CLIENT'S COMMENTS ADDRESSED	A.H.	A.D.L.
A	27.04.20	ISSUED FOR CONSTRUCTION CERTIFICATE	A.H.	E.F.
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Authorised for issue by:	Principal:
	CAXTON PROPERTY GROUP
Signature:	L.G.A. HORNSBY SHIRE COUNCIL
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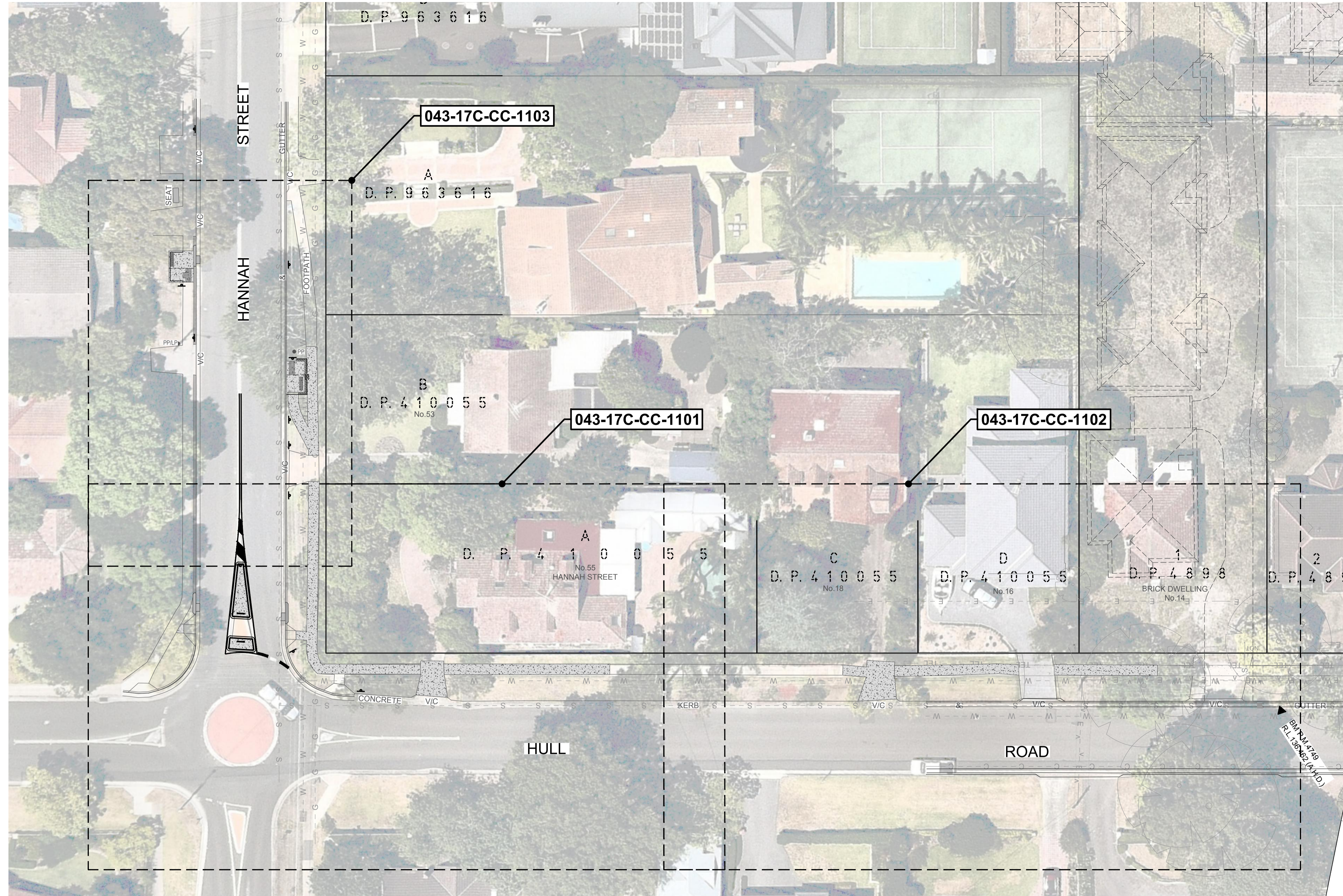
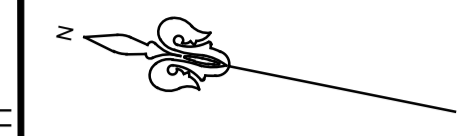
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Drawing Title  
**GENERAL NOTES AND LEGEND**

C&R Ref. 043-17 Drawing Ref. 043-17C-CC-1002 Revision B

CONSTRUCTION CERTIFICATE



PLAN  
SCALE 1:250

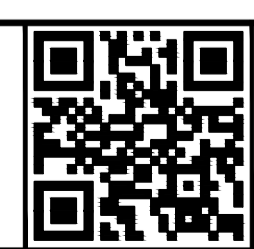


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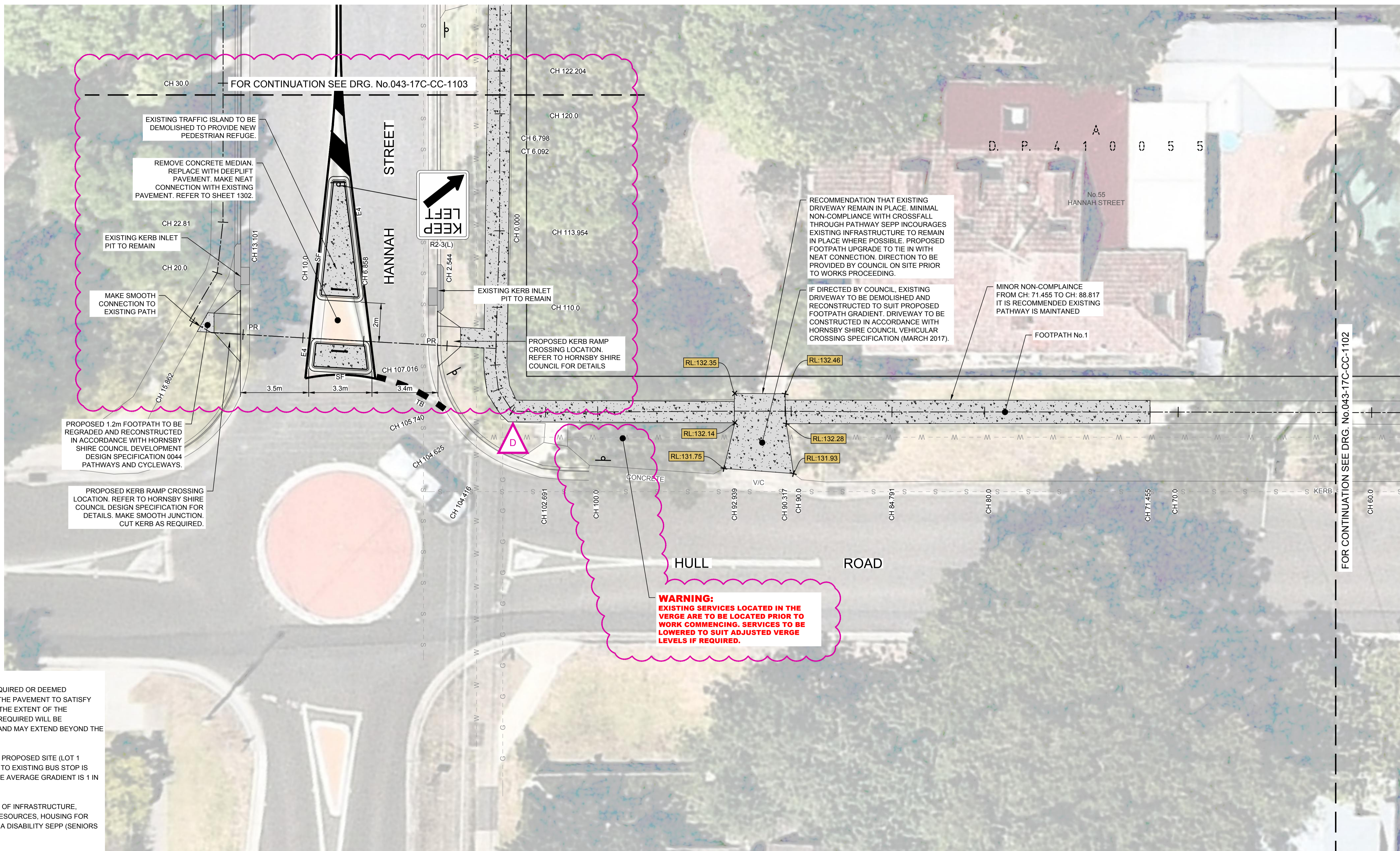
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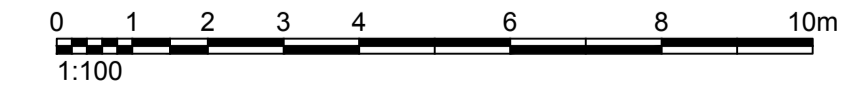
Drawing Title	KEY PLAN
C&R Ref.	043-17
Drawing Ref.	043-17C-CC-1003
Revision	B

CONSTRUCTION CERTIFICATE



- NOTE:**
- MILL AND RE-SHEET AS REQUIRED OR DEEMED NECESSARY TO RESTORE THE PAVEMENT TO SATISFY COUNCILS REQUIREMENT. THE EXTENT OF THE PAVEMENT RESTORATION REQUIRED WILL BE DETERMINED BY COUNCIL AND MAY EXTEND BEYOND THE LIMITS OF EXCAVATION.
  - AVERAGE GRADIENT FROM PROPOSED SITE (LOT 1 D.P.4898 No.14 HULL ROAD) TO EXISTING BUS STOP IS 1.5%. (MAXIMUM ALLOWABLE AVERAGE GRADIENT IS 1 IN 14 (7.14%).)
  - REFERENCE: DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES, HOUSING FOR SENIORS OR PEOPLE WITH A DISABILITY SEPP (SENIORS LIVING) 2004.
  - BUS STOP AREAS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GUIDELINES SETOUT IN THE DISABILITY STANDARDS FOR ACCESSIBLE PUBLIC TRANSPORT (2002).

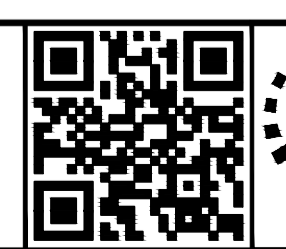
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SCALE 1:100



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	Scale: AS SHOWN Datum: AHD

Project:
PROPOSED FOOTPATH RECONSTRUCTION HULL ROAD AND HANNAH STREET

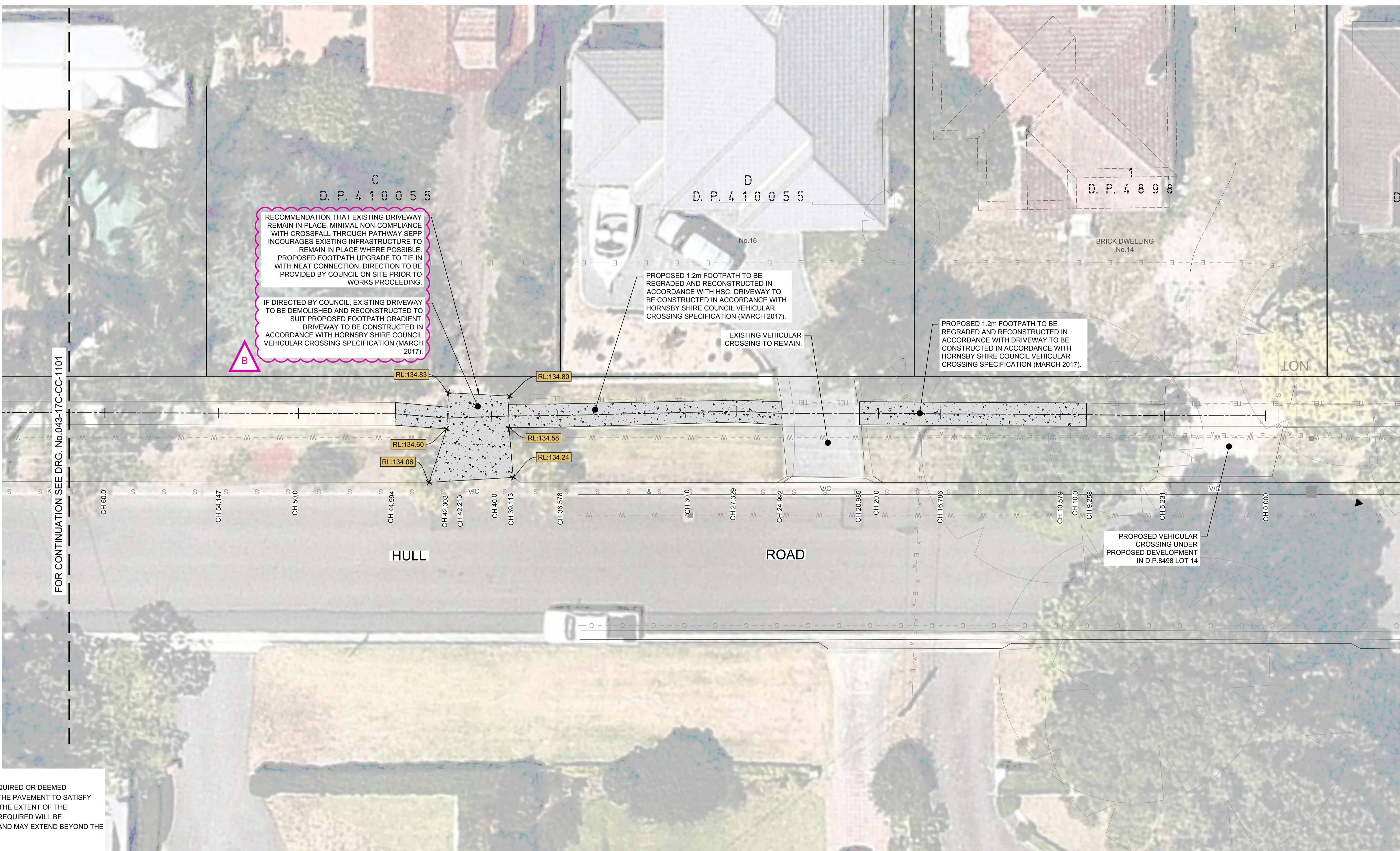
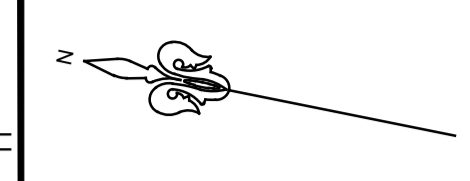


ABN 77 050 209 991 ACN 050 209 991  
Suite 7.01, Level 7, 3 Rider Boulevard,  
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PO Box 3220, Rhodes NSW 2138  
Tel. 9669-1855  
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Drawing Title:	Revision:
PROPOSED FOOTPATH RECONSTRUCTION PLAN SHEET 1 OF 3	D
C&R Ref: 043-17	Drawing Ref: 043-17C-CC-1101

**CONSTRUCTION CERTIFICATE**

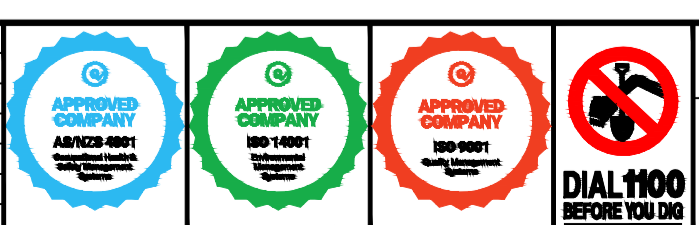
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- NOTE:**
- MILL AND RE-SHEET AS REQUIRED OR DEEMED NECESSARY TO RESTORE THE PAVEMENT TO SATISFY COUNCILS REQUIREMENT. THE EXTENT OF THE PAVEMENT RESTORATION REQUIRED WILL BE DETERMINED BY COUNCIL AND MAY EXTEND BEYOND THE LIMITS OF EXCAVATION.
  - AVERAGE GRADIENT FROM PROPOSED SITE (LOT 1 D.P.4898 No.14 HULL ROAD) TO EXISTING BUS STOP IS 1.5%. (MAXIMUM ALLOWABLE AVERAGE GRADIENT IS 1 IN 14 (7.14%).)
  - REFERENCE: DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES, HOUSING FOR SENIORS OR PEOPLE WITH A DISABILITY SEPP (SENIORS LIVING) 2004.
  - BUS STOP AREAS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GUIDELINES SETOUT IN THE DISABILITY STANDARDS FOR ACCESSIBLE PUBLIC TRANSPORT (2002).

PLAN  
SCALE 1:100

REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.	A.H.	A.DL.	E.F.
B	11.05.20	CLIENT'S COMMENTS ADDRESSED	A.H.	A.DL.			
A	27.04.20	ISSUED FOR CONSTRUCTION CERTIFICATE	A.H.	E.F.			



Authorised for issue by:	Principal:
	CAXTON PROPERTY GROUP
	LGA: HORNSBY SHIRE COUNCIL
Scale:	Datum:
AS SHOWN	AHD

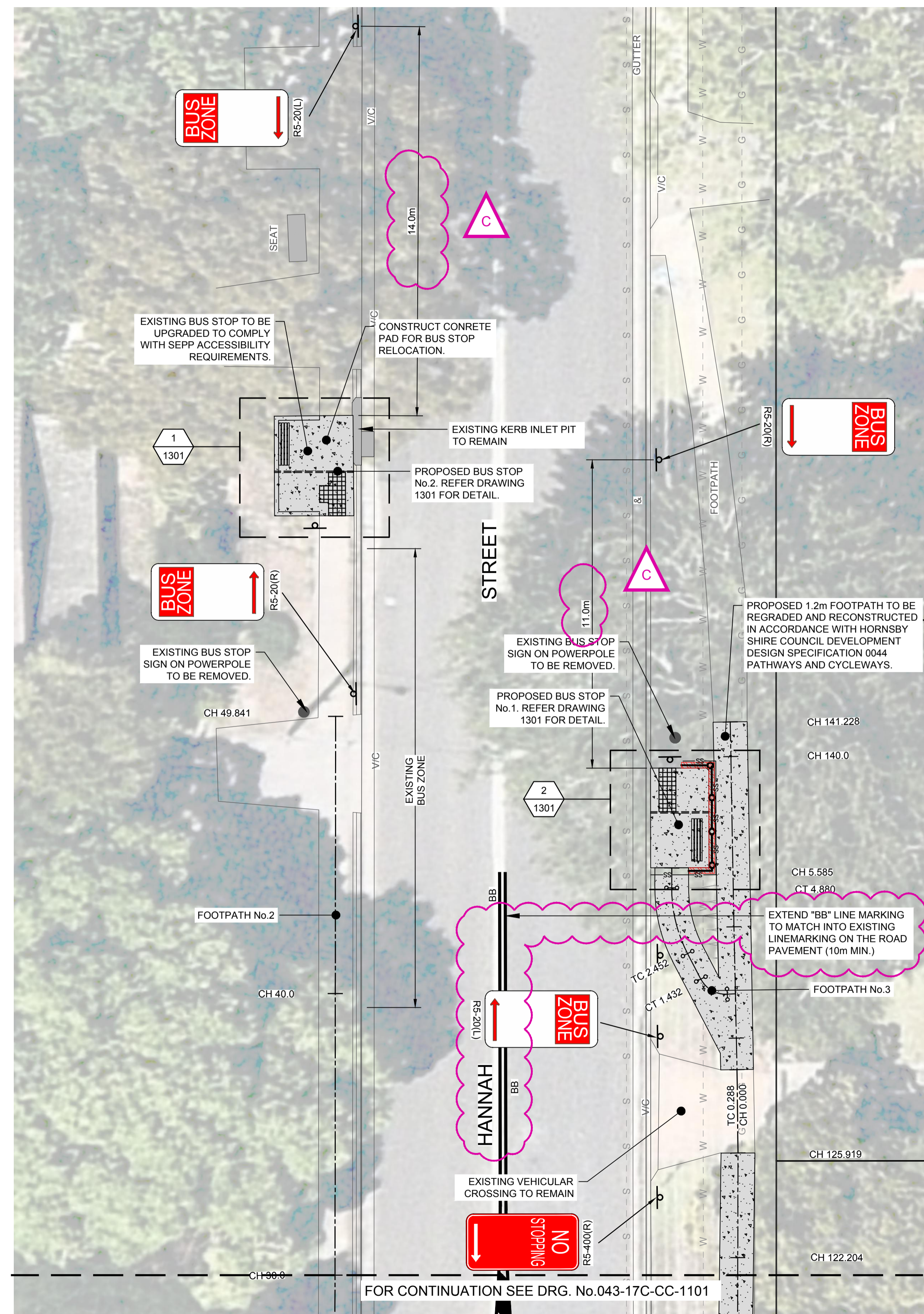
Project:
PROPOSED FOOTPATH RECONSTRUCTION HULL ROAD AND HANNAH STREET



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Drawing Title:	Revision:
PROPOSED FOOTPATH RECONSTRUCTION SHEET 2 OF 3	B
C&R Ref:	Drawing Ref:
043-17	043-17C-CC-1102

CONSTRUCTION CERTIFICATE



FOR CONTINUATION SEE DRG. No.043-17C-CC-1101

PLAN  
SCALE 1:100

**NOTE:**

1. MILL AND RE-SHEET AS REQUIRED OR DEEMED NECESSARY TO RESTORE THE PAVEMENT TO SATISFY COUNCILS REQUIREMENT. THE EXTENT OF THE PAVEMENT RESTORATION REQUIRED WILL BE DETERMINED BY COUNCIL AND MAY EXTEND BEYOND THE LIMITS OF EXCAVATION.
2. AVERAGE GRADIENT FROM PROPOSED SITE (LOT 1 D.P.4898 No.14 HULL ROAD) TO EXISTING BUS STOP IS 1.5%. (MAXIMUM ALLOWABLE AVERAGE GRADIENT IS 1 IN 14 (7.14%).)
3. REFERENCE: DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES, HOUSING FOR SENIORS OR PEOPLE WITH A DISABILITY SEPP (SENIORS LIVING) 2004.
4. BUS STOP AREAS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GUIDELINES SETOUT IN THE DISABILITY STANDARDS FOR ACCESSIBLE PUBLIC TRANSPORT (2002).

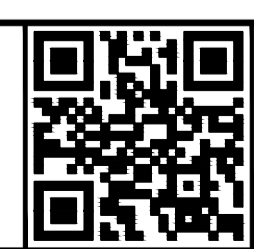


REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.
C	16.06.20	PEDESTRIAN REFUGE AMENDED	A.H.	E.F.
B	11.05.20	CLIENT'S COMMENTS ADDRESSED	A.H.	A.D.L.
A	27.04.20	ISSUED FOR CONSTRUCTION CERTIFICATE	A.H.	E.F.



Authorised for issue by:	Principal:
	CAXTON PROPERTY GROUP
	L.G.A. HORNSBY SHIRE COUNCIL
Signature:	Scale: AS SHOWN
	Datum: AHD

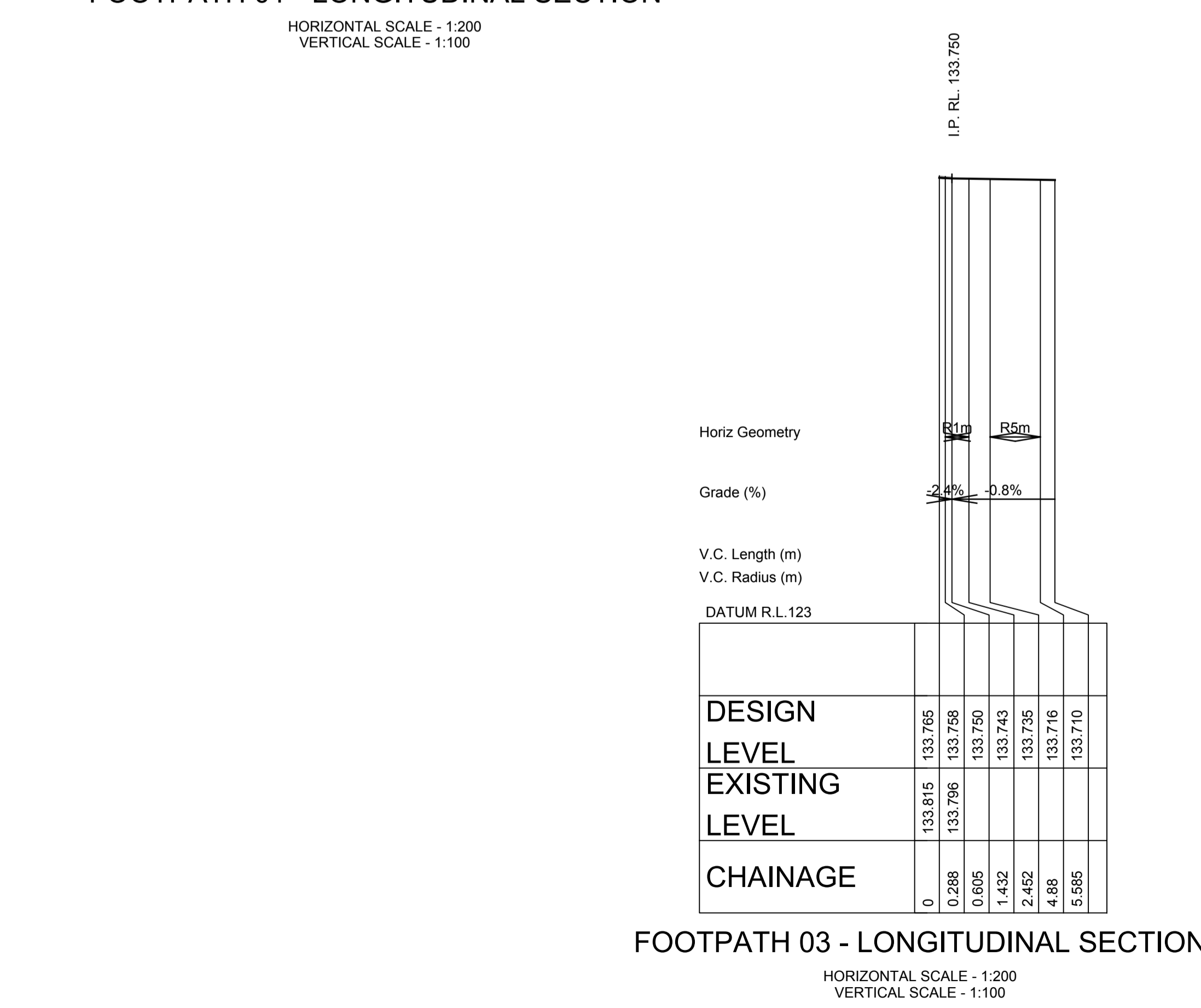
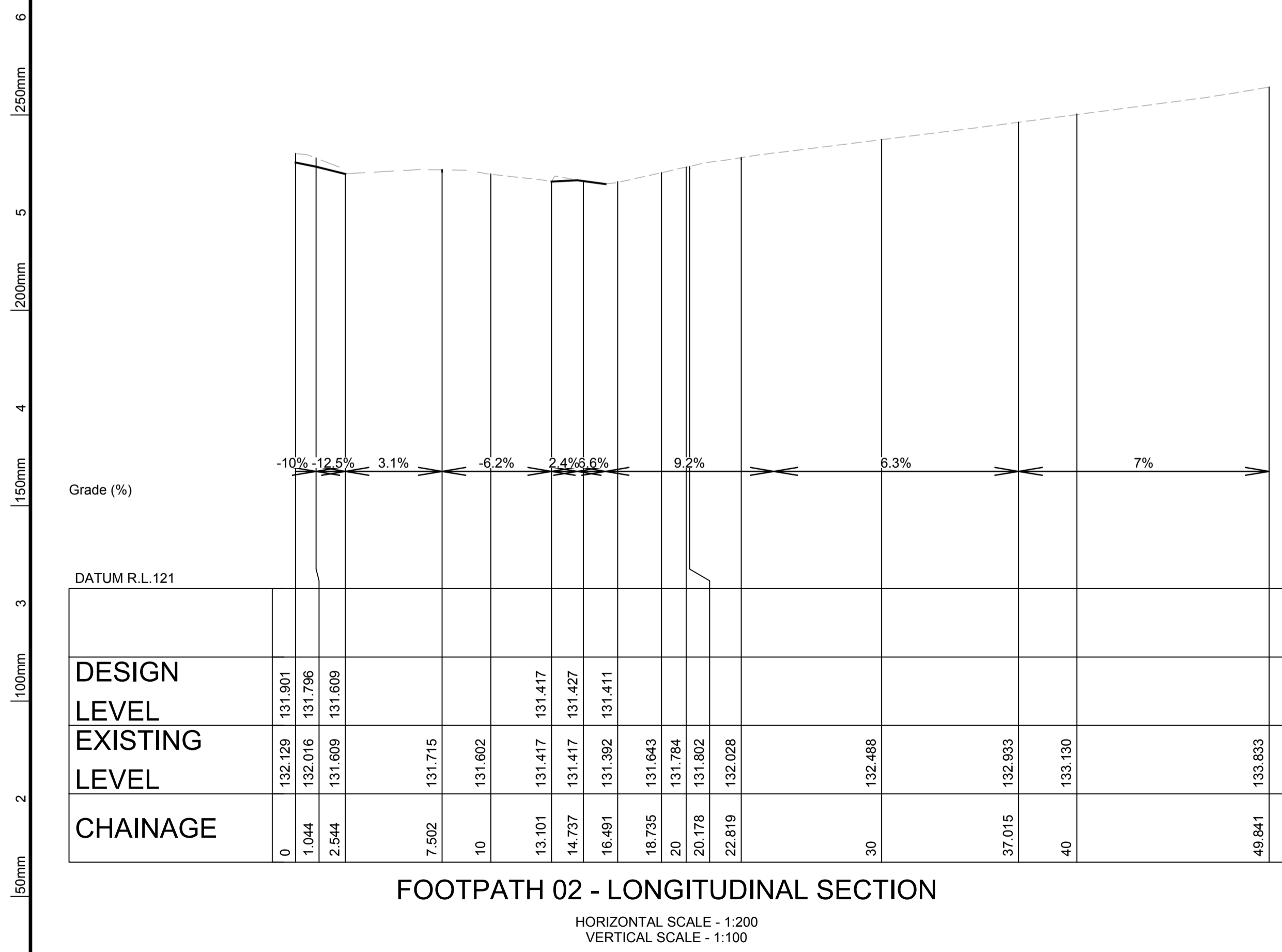
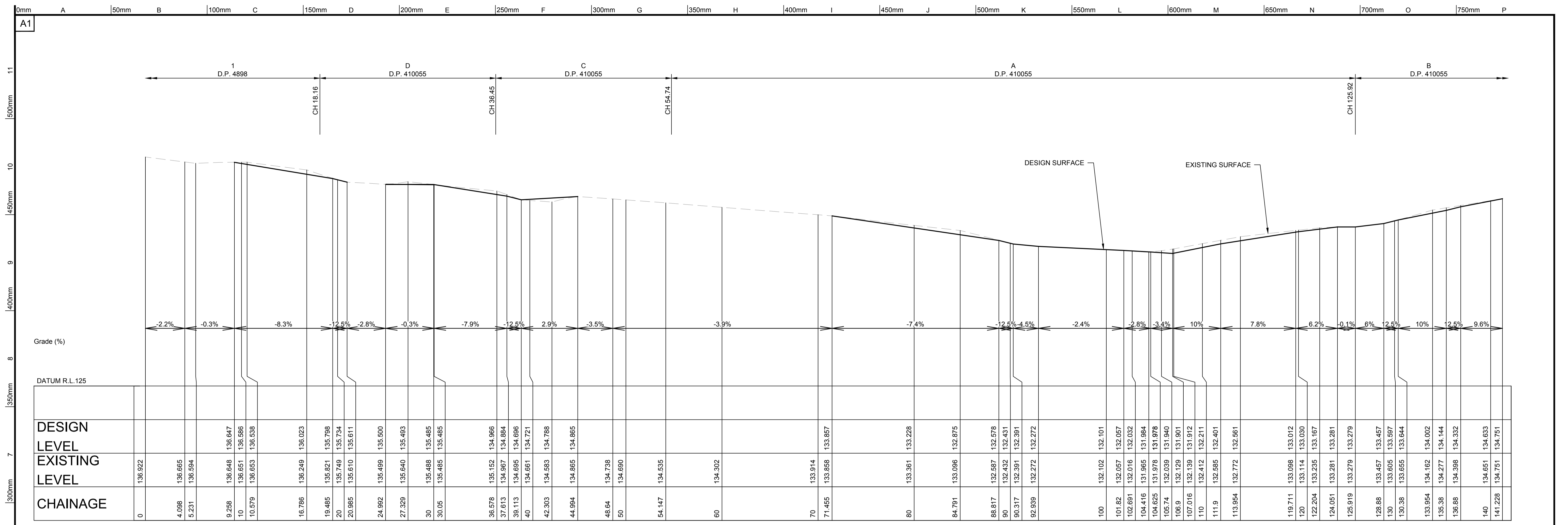
Project:
PROPOSED FOOTPATH RECONSTRUCTION HULL ROAD AND HANNAH STREET



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Drawing Title:	Revision:
PROPOSED FOOTPATH RECONSTRUCTION PLAN SHEET 3 OF 3	C
C&R Ref. 043-17	Drawing Ref. 043-17C-CC-1103

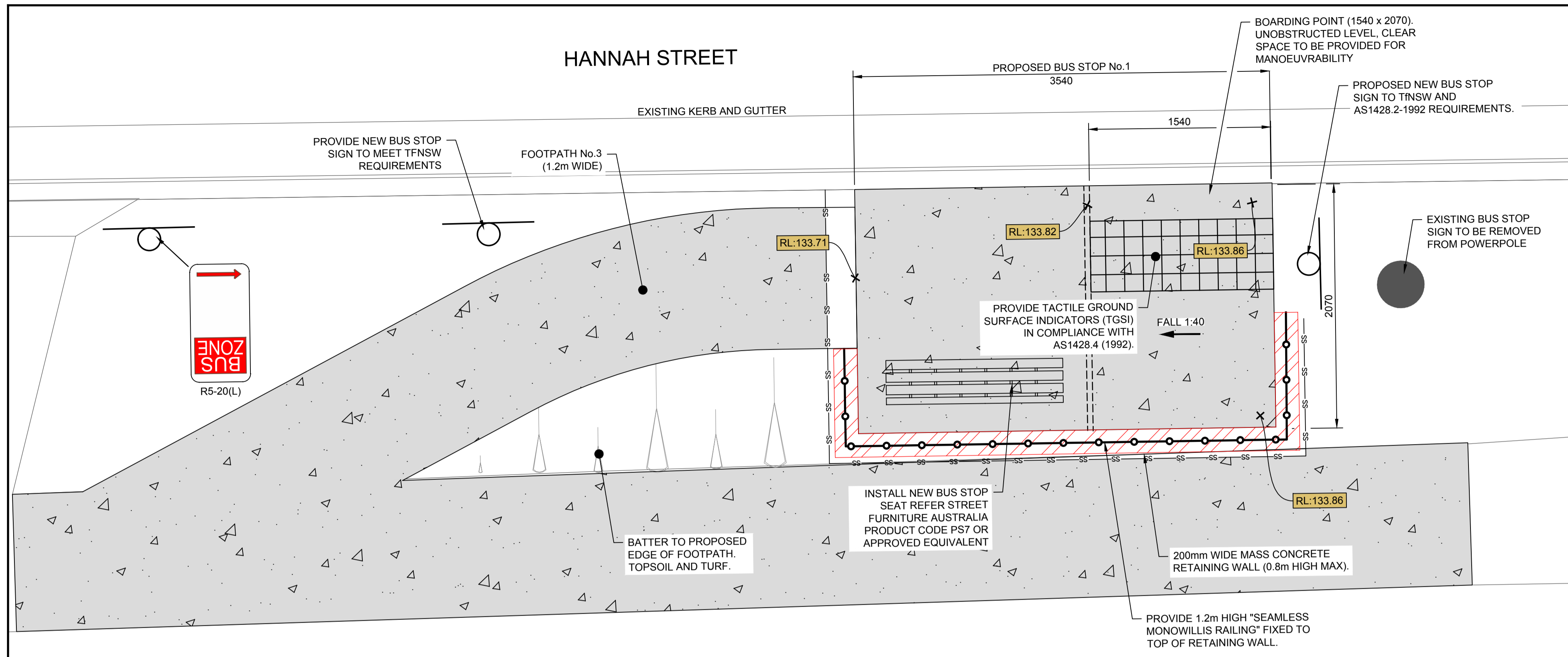
CONSTRUCTION CERTIFICATE



CONSTRUCTION CERTIFICATE

A1

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2  
1

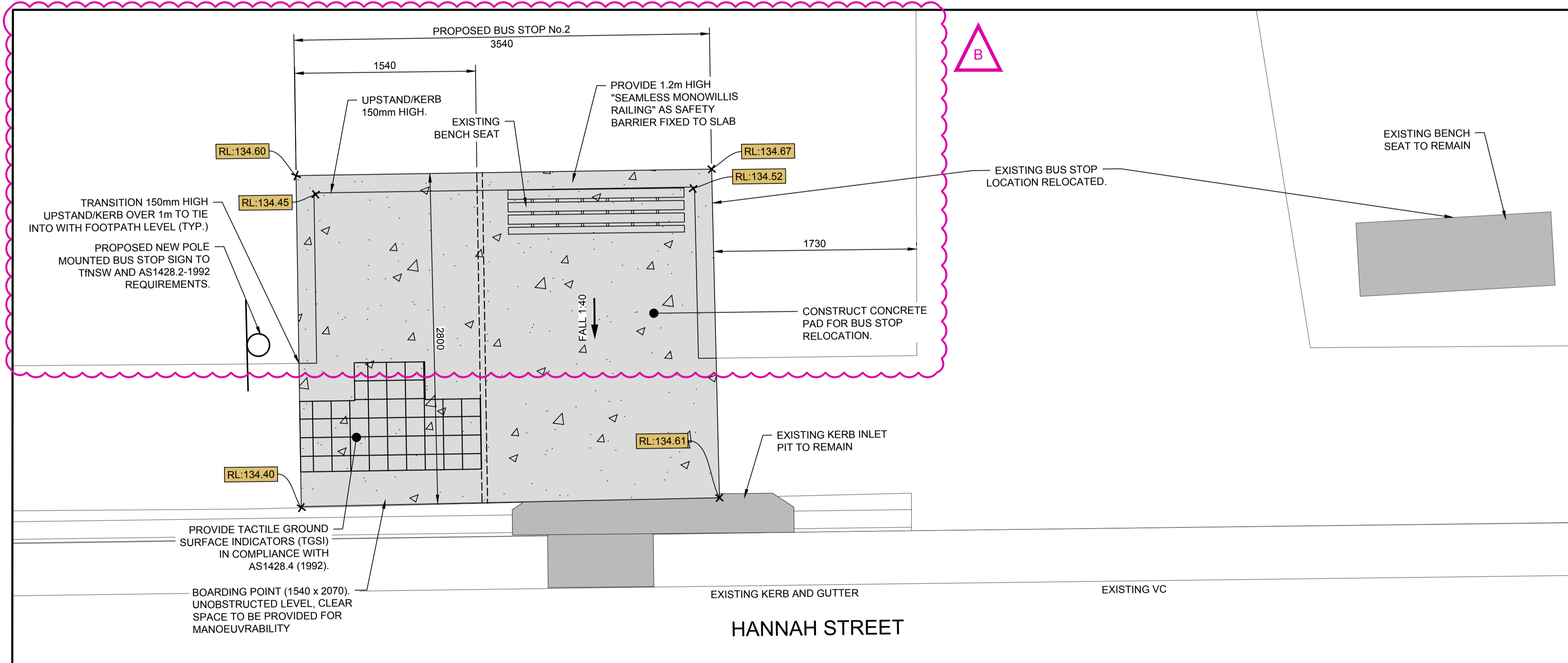


**NOTES:**

1. AVERAGE GRADIENT FROM PROPOSED SITE (LOT 1 D.P.4898 No.14 HULL ROAD) TO EXISTING BUS STOP IS 1.5%. (MAXIMUM ALLOWABLE AVERAGE GRADIENT IS 1 IN 14 (7.14%).)
2. REFERENCE: DEPARTMENT OF INFRASTRUCTURE, PLANNING AND NATURAL RESOURCES, HOUSING FOR SENIORS OR PEOPLE WITH A DISABILITY SEPP (SENIORS LIVING) 2004.
3. BUS STOP DIMENSIONS AND DETAILS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE DISABILITY STANDARDS FOR ACCESSIBLE PUBLIC TRANSPORT 2002 TECHNICAL SPECIFICATIONS. REFER ALSO TO AS1428.2-1992 FOR COMPLIANCE REQUIREMENTS.

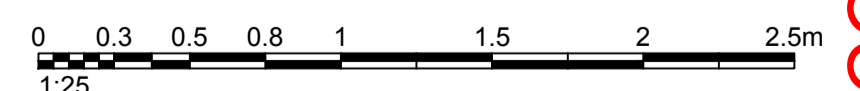
**BUS STOP No.1**

**DETAIL 1**  
SCALE 1:25



**BUS STOP No.2**

**DETAIL 2**  
SCALE 1:25



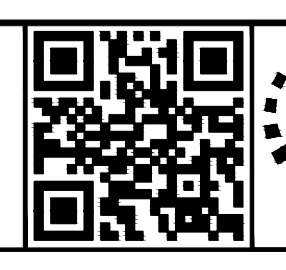
11.05.20	CLIENT'S COMMENTS ADDRESSED	A.H.	A.D.L.
27.04.20	ISSUED FOR CONSTRUCTION CERTIFICATE	A.H.	E.F.
REV.	DATE	AMENDMENT DESCRIPTION	DES. DRN.

Authorised for issue by:

Principal: CAXTON PROPERTY GROUP  
LGA: HORNSBY SHIRE COUNCIL

Scale: AS SHOWN Datum: AHD

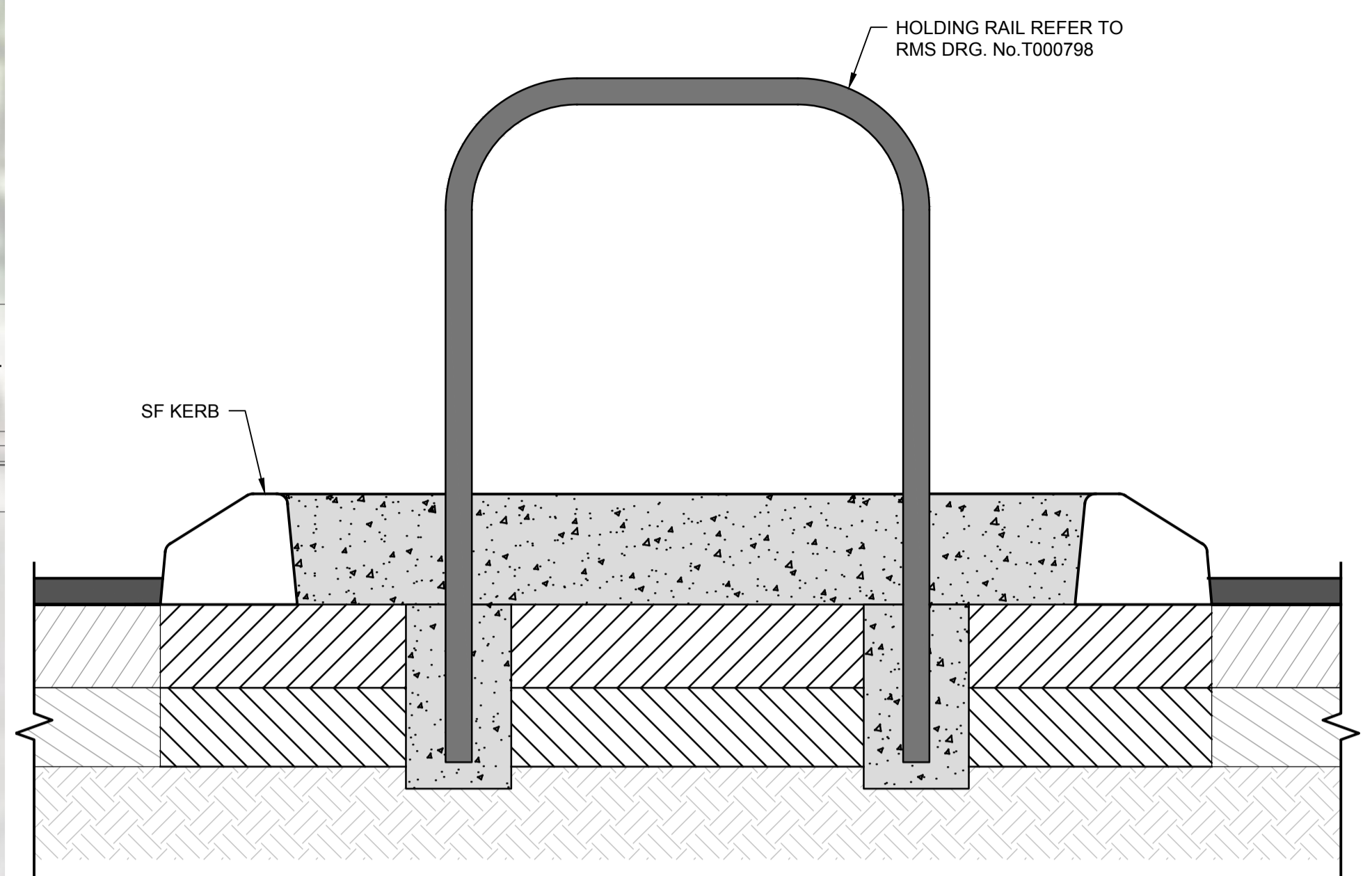
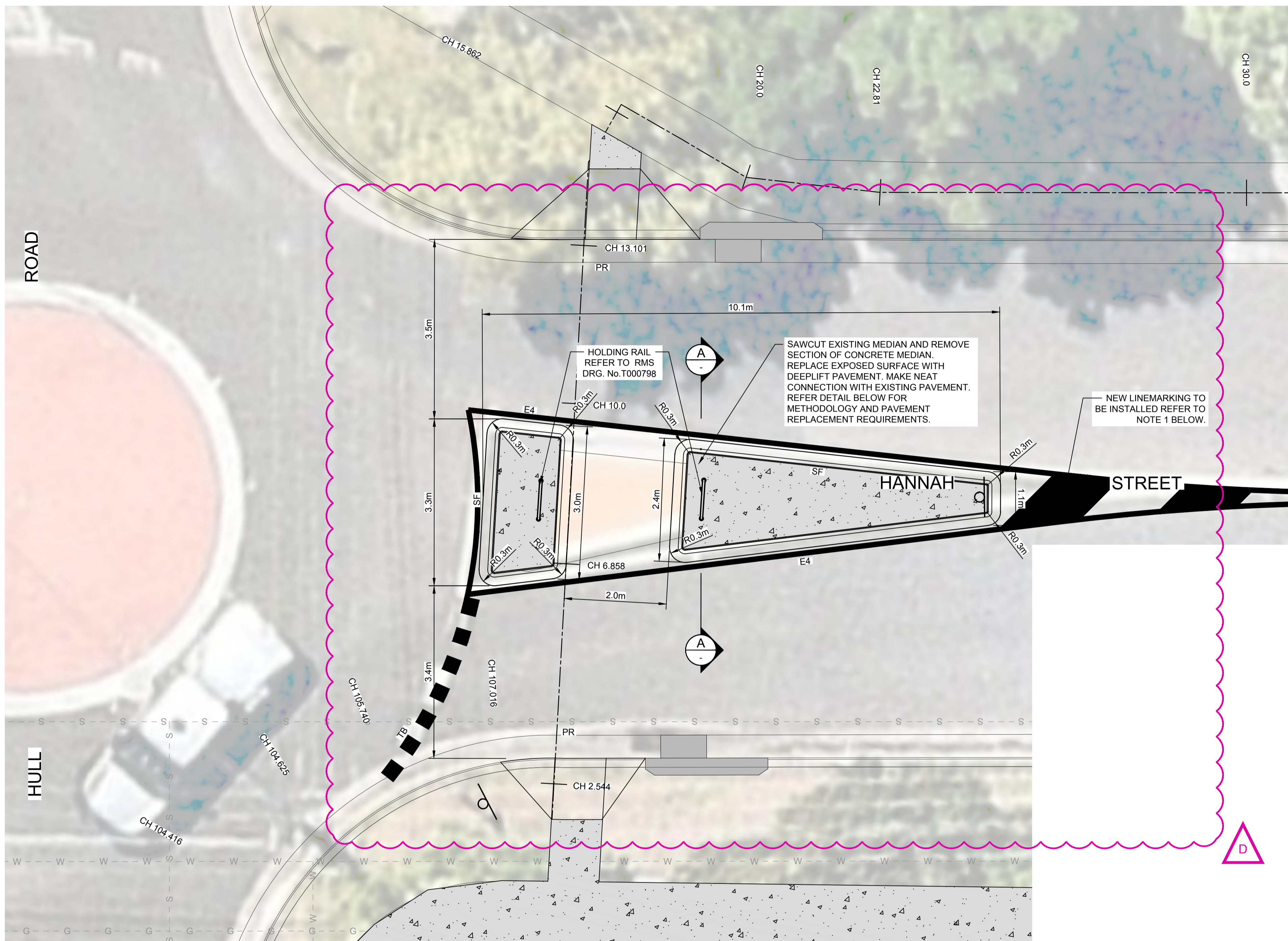
Project: PROPOSED FOOTPATH RECONSTRUCTION  
HULL ROAD AND HANNAH STREET



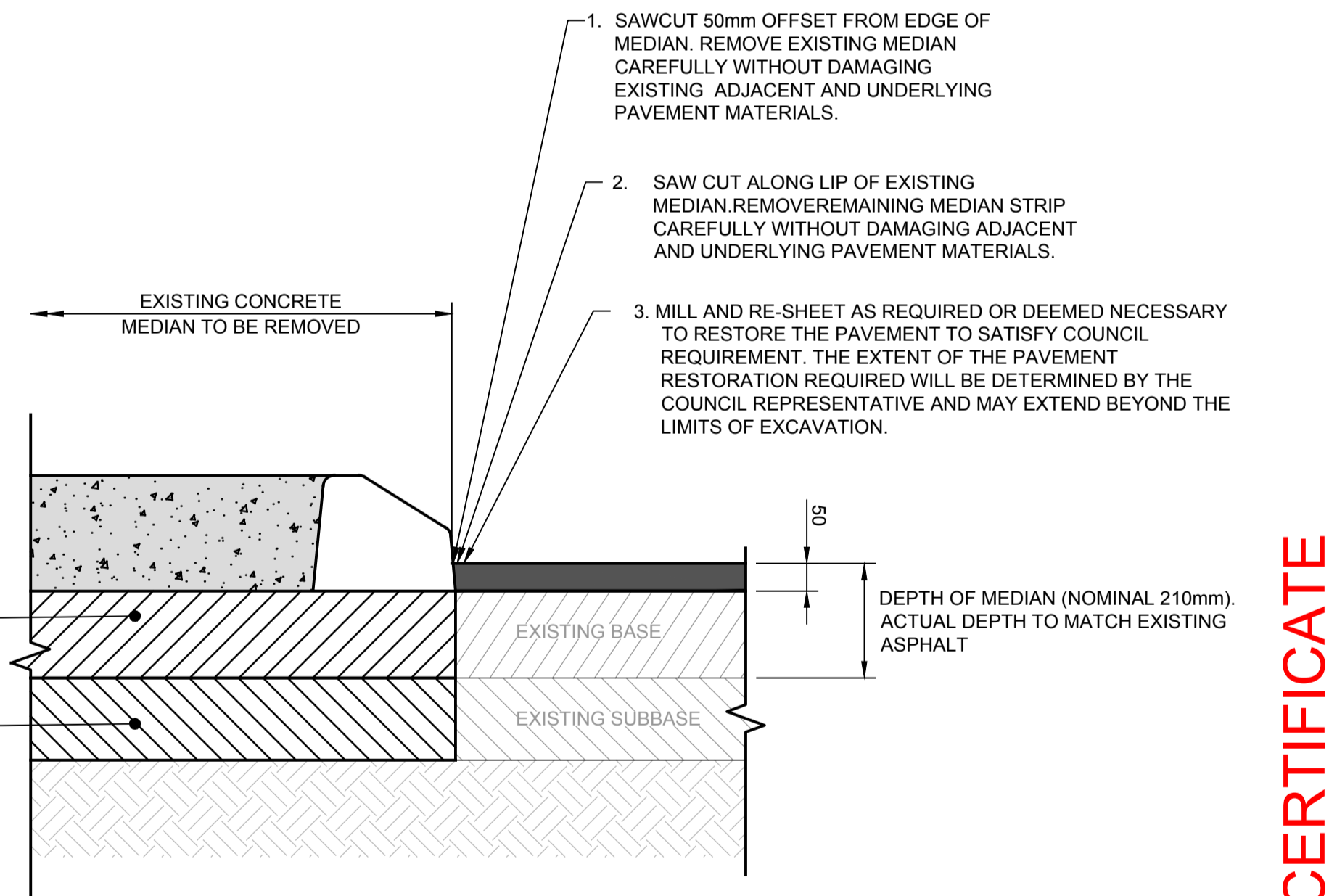
ABN 77 050 209 991 Suite 7.01, Level 7, 3 Rider Boulevard, Rhodes, NSW 2138 PO Box 3220, Rhodes NSW 2138 Tel. 9669-1855 reception@craigandrhodes.com.au www.craigandrhodes.com.au © Craig & Rhodes Pty Ltd	Drawing Title: PROPOSED BUS STOP DETAILS	C&R Ref: 043-17	Drawing Ref: 043-17C-CC-1301	Revision: B
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CONSTRUCTION CERTIFICATE





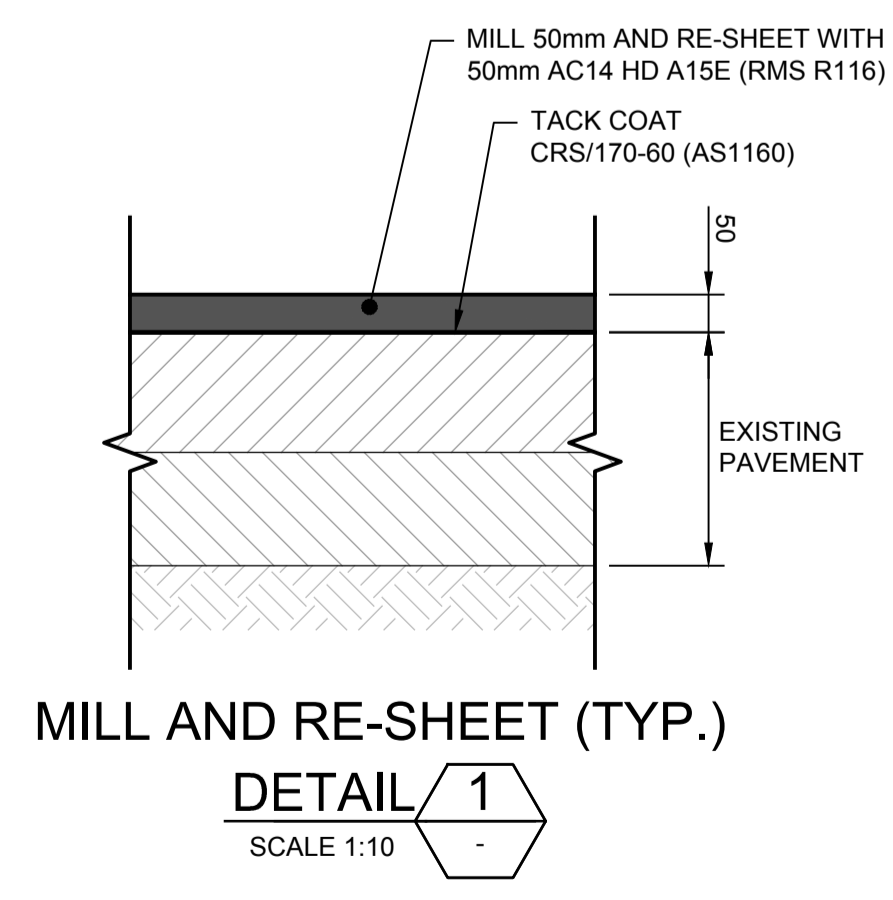
REFUGE ISLAND  
SECTION A  
SCALE 1:10



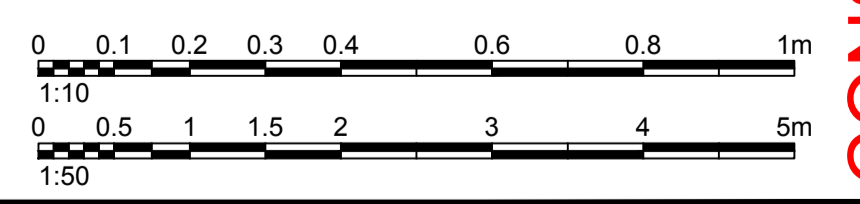
REMOVAL OF MEDIAN ADJACENT TO FLEXIBLE PAVEMENT  
DETAIL 2  
SCALE 1:10

**LINEMARKING:**

- ALL LINEMARKING WORKS TO BE IN ACCORDANCE WITH THE CURRENT AUSTRALIAN STANDARD AS1742.2-2009-MANUAL UNIFORM TRAFFIC CONTROL DEVICES.
- THE SCOPE OF WORK SHALL INCLUDE ALL PAVEMENT MARKINGS TO ROADS.
- THE WORK CARRIED OUT AND TESTING PERFORMED SHALL COMPLY WITH THE CURRENT, RELEVANT AUSTRALIAN STANDARDS AND RMS STANDARDS WHERE NECESSARY.
- ALL MARKINGS SHALL BE SPOTTED OUT AND APPROVED BY THE SUPERINTENDENT PRIOR TO APPLICATION.
- PAINT SHALL BE APPLIED AT A WET THICKNESS OF BETWEEN 0.35mm - 0.45mm.
- PAINT SHALL ONLY BE APPLIED TO CLEAN AND DRY SURFACES.
- ALL LONGITUDINAL LINES SHALL BE APPLIED BY A SELF-PROPELLED MACHINE.
- LINEMARKING REMOVAL SHALL BE CARRIED OUT BY GRINDING OR SANDBLASTING. REMOVAL BY BURNING WILL NOT BE PERMITTED.
- THE EXTENT OF LINEMARKING TO BE ERADICATED SHALL BE CONFIRMED ON SITE PRIOR TO REMOVAL. ANY MARKINGS INCORRECTLY REMOVED SHALL BE REINSTATED AT THE CONTRACTOR'S EXPENSE.
- ALL MARKINGS SHALL BE COMPLETED IN A WORKMANLIKE MANNER AND BE STRAIGHT, SMOOTH AND WITH EVEN CURVES. ANY NON-COMFORMING WORK, SHALL BE REMOVED AND REINSTATED AT THE DIRECTION OF THE SUPERINTENDENT AT THE CONTRACTOR'S EXPENSE.



MILL AND RE-SHEET (TYP.)  
DETAIL 1  
SCALE 1:10



REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.
D	14.07.20	COUNCIL RFI ADDRESSED		
C	16.06.20	PEDESTRIAN REFUGE AMENDED	A.H.	E.F.
B	11.05.20	CLIENT'S COMMENTS ADDRESSED	A.H.	A.D.L.
A	27.04.20	ISSUED FOR CONSTRUCTION CERTIFICATE	A.H.	E.F.

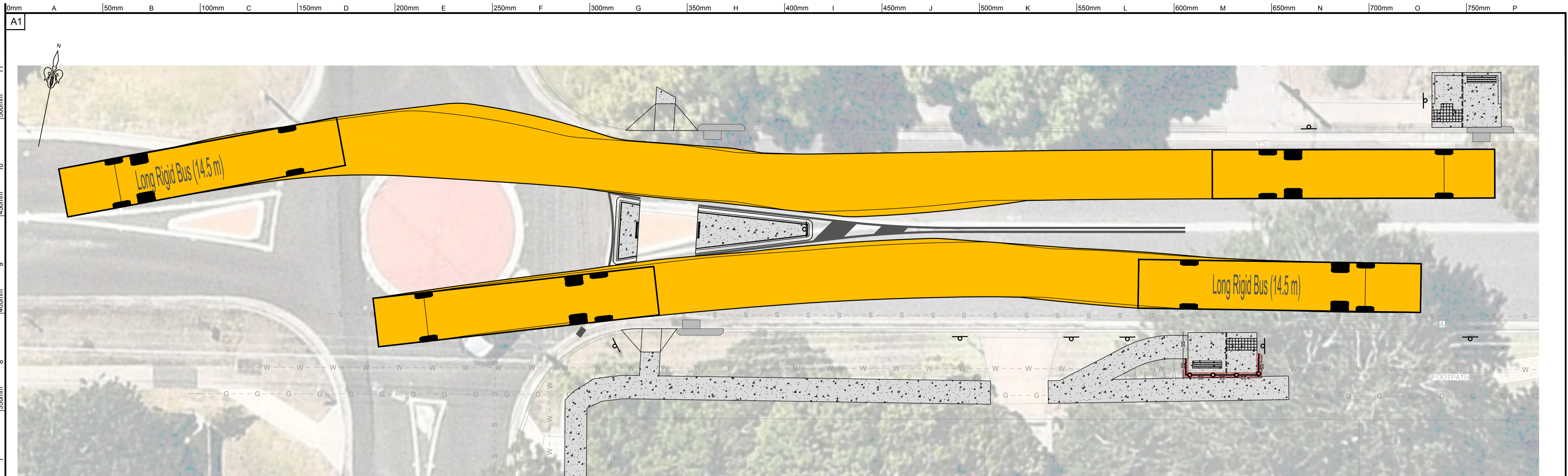
Authorised for issue by: Principal: CAXTON PROPERTY GROUP  
LGA: HORNSBY SHIRE COUNCIL  
Scale: AS SHOWN Datum: AHD

Project: PROPOSED FOOTPATH RECONSTRUCTION  
HULL ROAD AND HANNAH STREET

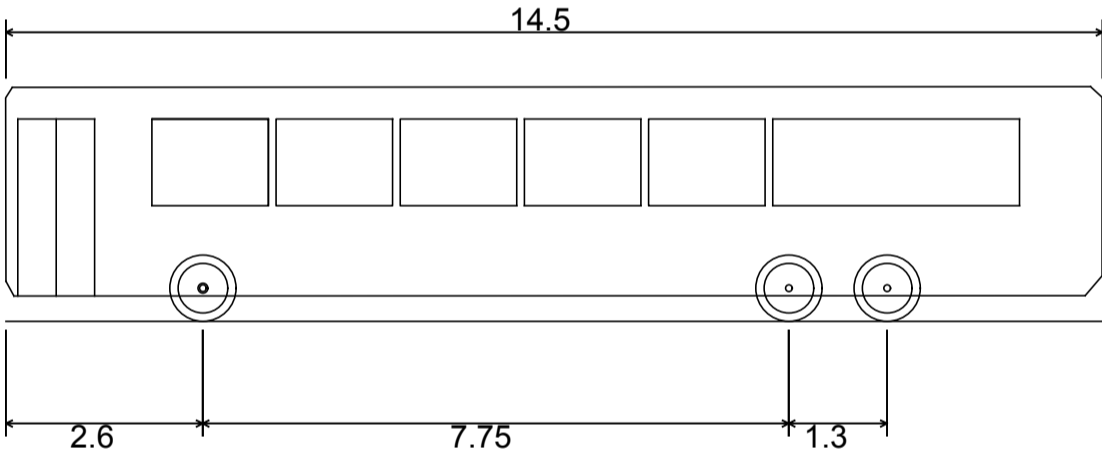
ABN 77 050 209 991 ACN 050 209 991  
Suite 7.01, Level 7, 3 Rider Boulevard,  
Rhodes, NSW, 2138  
PO Box 3220, Rhodes NSW 2138  
Tel. 9669-1855  
reception@craigandrhodes.com.au  
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Drawing Title: PROPOSED TRAFFIC ISLAND DETAILS  
C&R Ref: 043-17 Drawing Ref: 043-17C-CC-1302  
Revision: D

CONSTRUCTION CERTIFICATE



PLAN  
SCALE 1:100

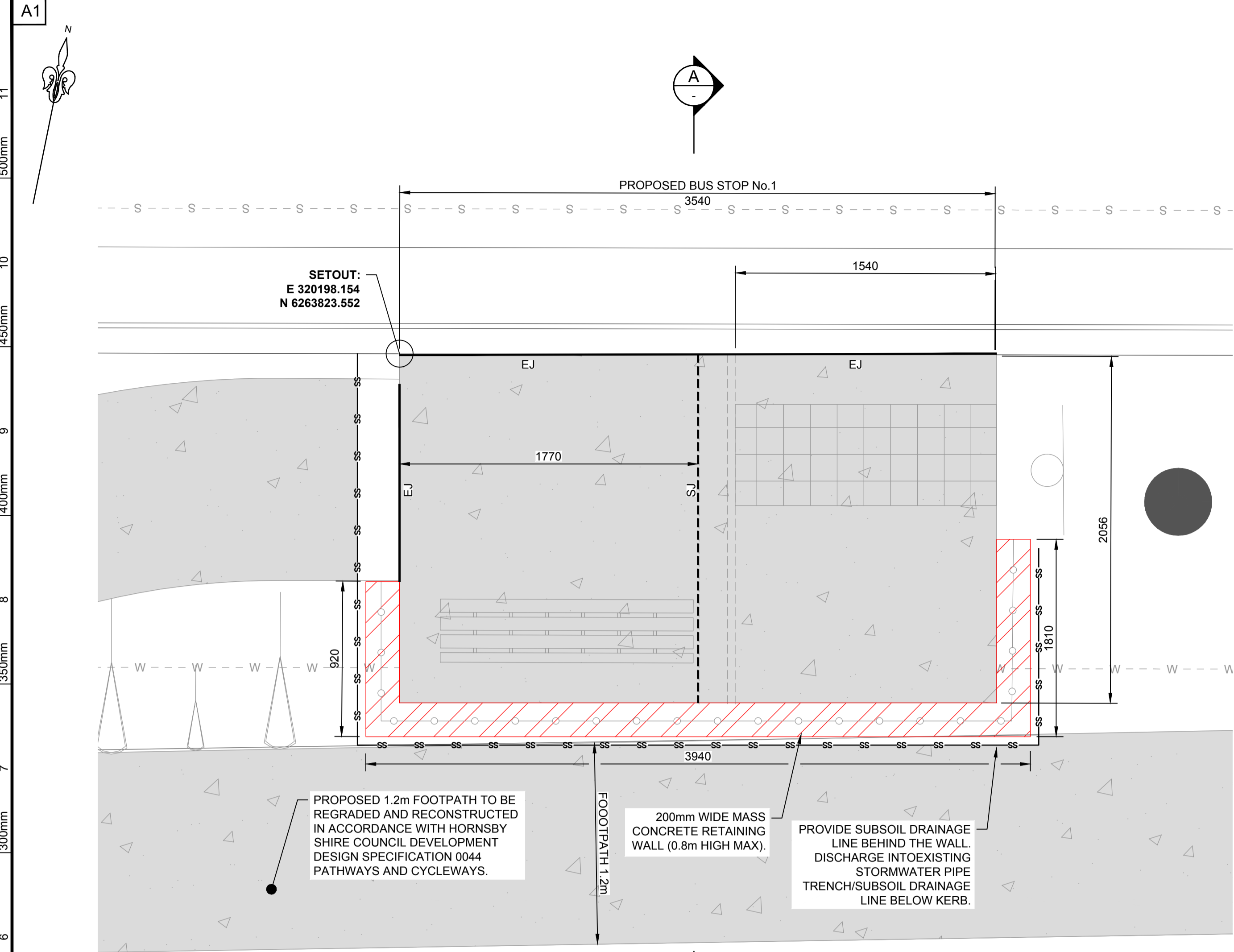


Long Rigid Bus (14.5 m)	
Overall Length	14.500m
Overall Width	2.500m
Overall Body Height	3.102m
Min Body Ground Clearance	0.337m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	15.000m

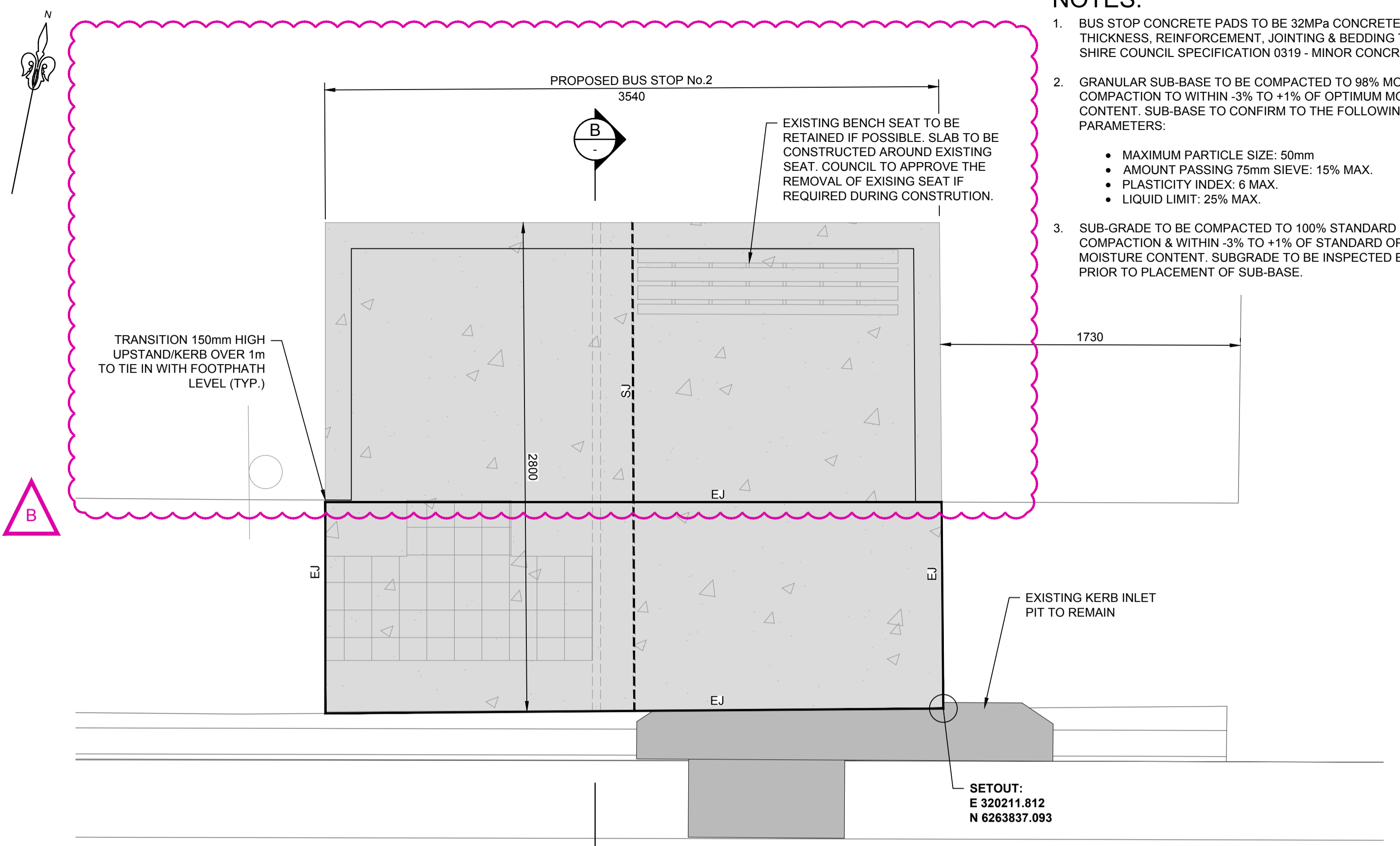


		Authorised for issue by: Signature: _____	Principal: <b>CAXTON PROPERTY GROUP</b> L.G.A. <b>HORNSBY SHIRE COUNCIL</b> Scale: AS SHOWN      Datum: AHD	Project: <b>PROPOSED FOOTPATH RECONSTRUCTION          HULL ROAD AND HANNAH STREET</b>			ABN 77 050 209 991    ACN 050 209 991 Suite 7.01, Level 7, 3 Rider Boulevard, Rhodes, NSW, 2138 PO Box 3220, Rhodes NSW 2138 Tel. 9669-1855 reception@craigandrhodes.com.au www.craigandrhodes.com.au © Craig & Rhodes Pty Ltd	Drawing Title <b>TURNING PATH          (BUS 14.5m)</b> C&R Ref. 043-17    Drawing Ref. 043-17C-CC-1551	Revision A
14.07.20 COUNCIL RFI ADDRESSED A.H. E.F.	DES. DRN.								

CONSTRUCTION CERTIFICATE

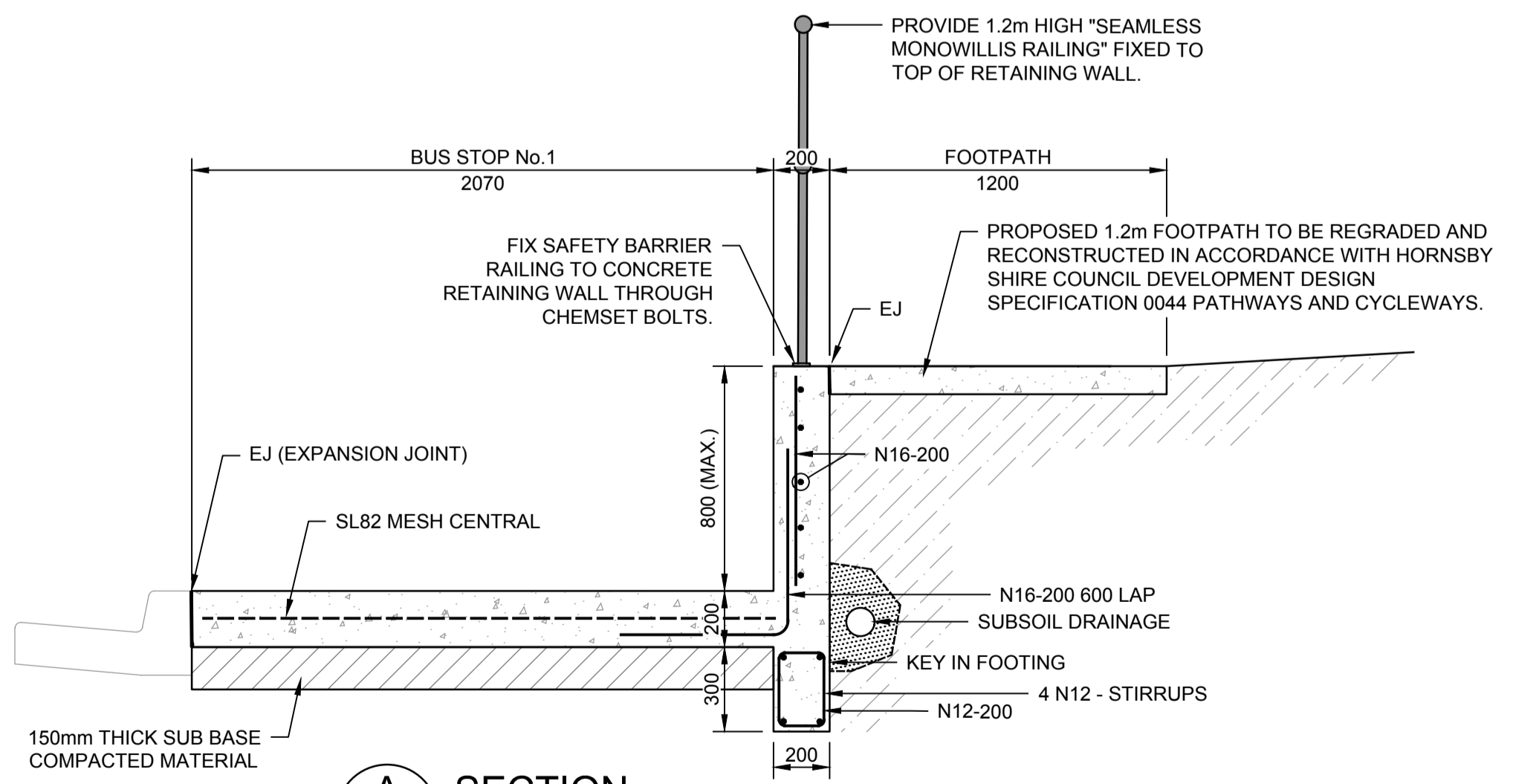


**BUS STOP No.1  
PLAN**  
SCALE 1:20

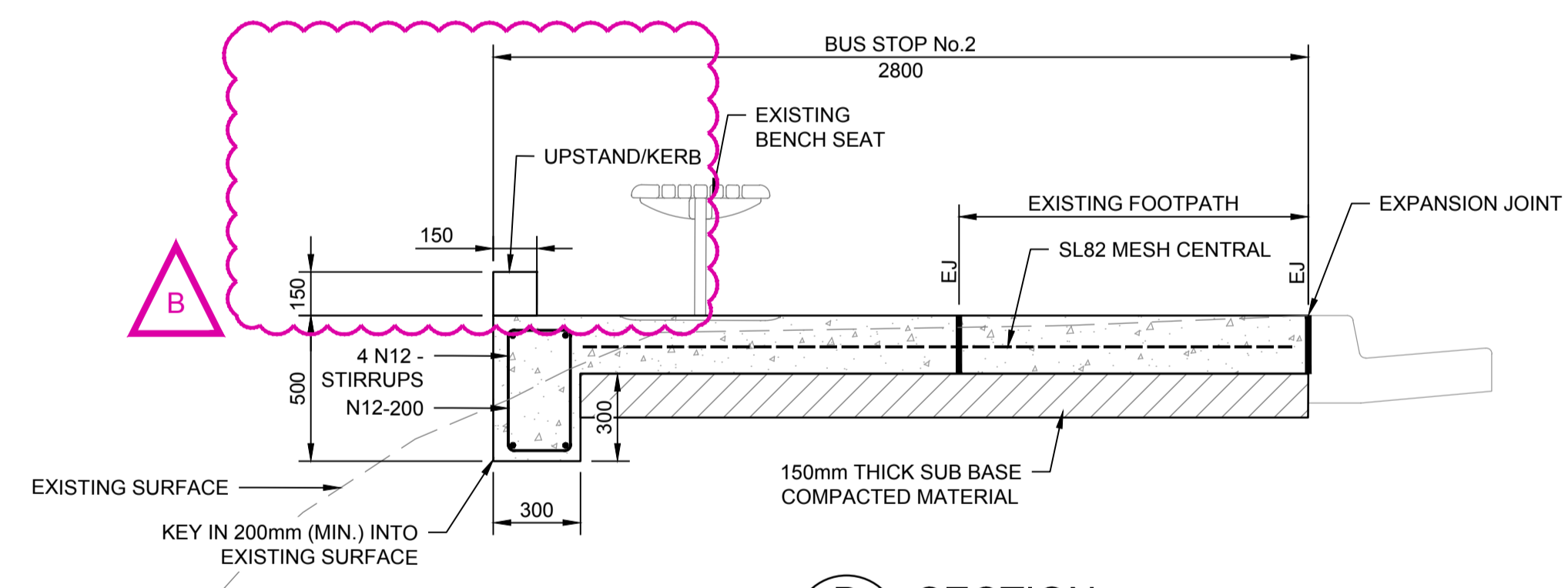


**BUS STOP No.2  
PLAN**  
SCALE 1:20

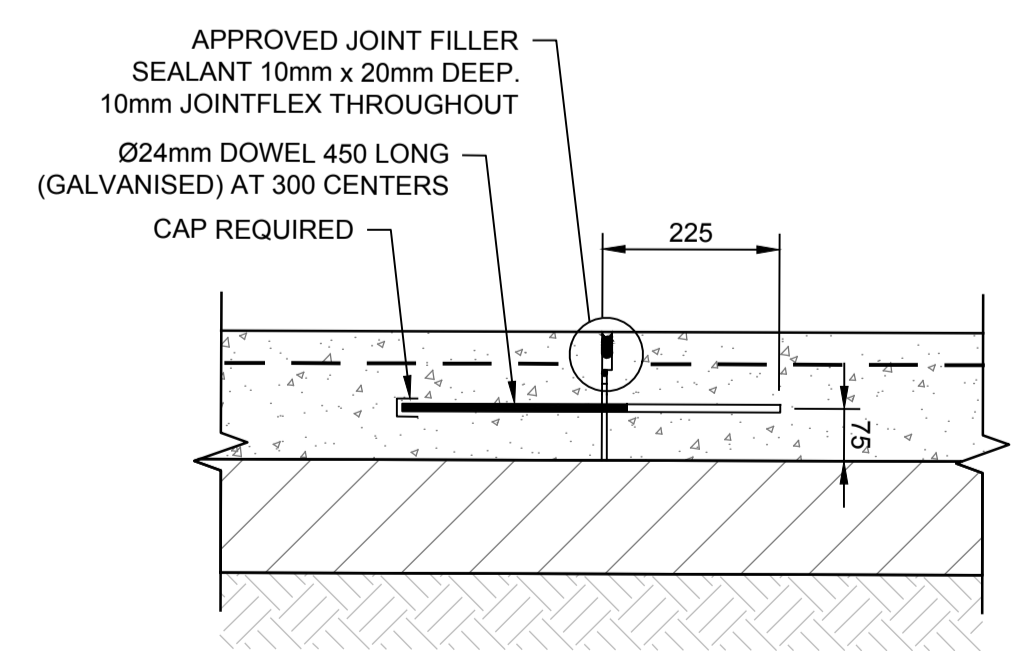
- NOTES:**
- BUS STOP CONCRETE PADS TO BE 32MPa CONCRETE WITH THICKNESS, REINFORCEMENT, JOINTING & BEDDING TO HORNSBY SHIRE COUNCIL SPECIFICATION 0319 - MINOR CONCRETE WORKS.
  - GRANULAR SUB-BASE TO BE COMPACTED TO 98% MODIFIED COMPACTION TO WITHIN -3% TO +1% OF OPTIMUM MOISTURE CONTENT. SUB-BASE TO CONFIRM TO THE FOLLOWING PARAMETERS:
    - MAXIMUM PARTICLE SIZE: 50mm
    - AMOUNT PASSING 75mm SIEVE: 15% MAX.
    - PLASTICITY INDEX: 6 MAX.
    - LIQUID LIMIT: 25% MAX.
  - SUB-GRADE TO BE COMPACTED TO 100% STANDARD COMPACTION & WITHIN -3% TO +1% OF STANDARD OPTIMUM MOISTURE CONTENT. SUBGRADE TO BE INSPECTED BY COUNCIL PRIOR TO PLACEMENT OF SUB-BASE.



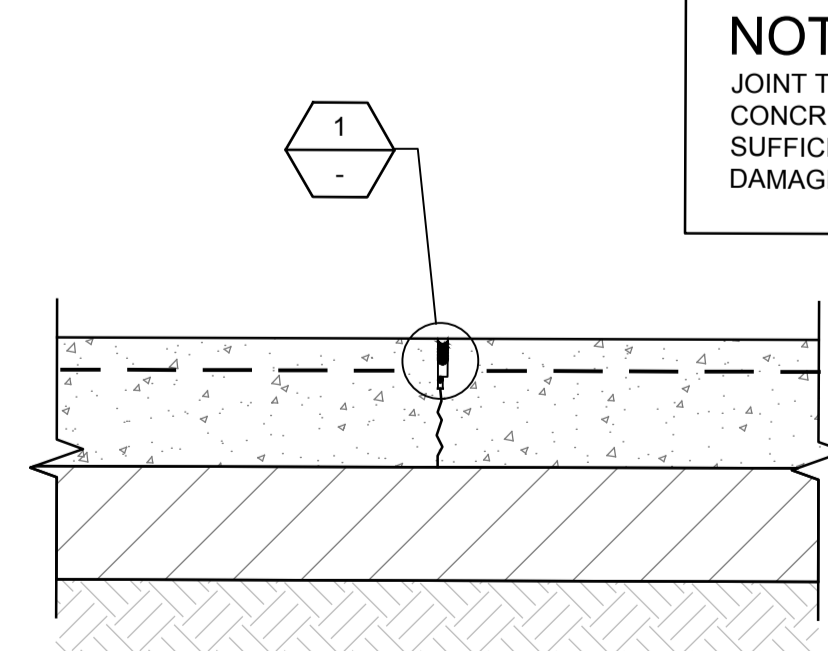
**A SECTION**  
SCALE 1:20



**B SECTION**  
SCALE 1:20

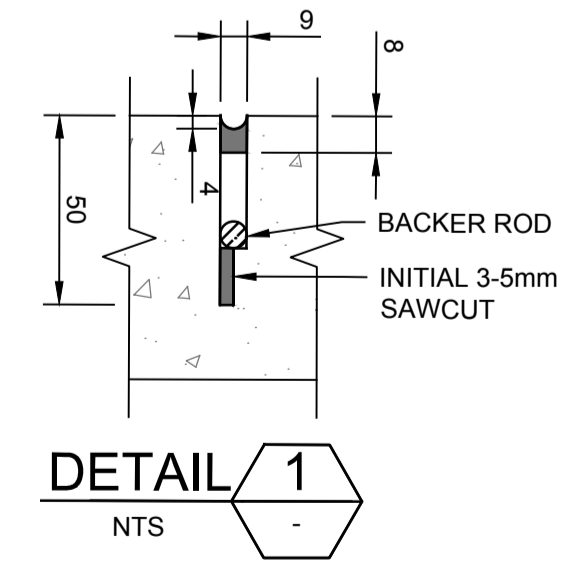


**EXPANSION JOINT (EJ)**  
SCALE NTS



**SAWN JOINT (SJ)**  
SCALE NTS

**NOTE**  
JOINT TO BE SAWN AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY THAT IT WILL NOT BE DAMAGED BY SAWING (24 HRS. MAX.)



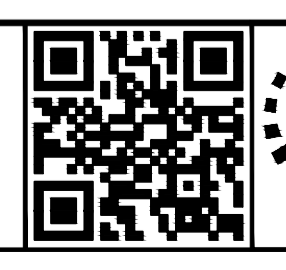
**DETAIL 1**  
NTS

**R.C SPRINGETT**  
ENGINEERS AUSTRALIA  
MIEAust CPEng  
Chartered Professional Engineer  
NPER (72223)

11.05.20	CLIENT'S COMMENTS ADDRESSED	A.H.	A.D.L.
27.04.20	ISSUED FOR CONSTRUCTION CERTIFICATE	A.H.	E.F.
REV.	DATE	AMENDMENT DESCRIPTION	DES. DRN.

Authorised for issue by:	Principal:	Project:
	CAXTON PROPERTY GROUP	PROPOSED FOOTPATH RECONSTRUCTION
	HORNSBY SHIRE COUNCIL	HULL ROAD AND HANNAH STREET
Scale:	Datum:	
AS SHOWN	AHD	

Scale:	Datum:
AS SHOWN	AHD



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TAKE THE LEAD

ABN 77 050 209 991	ACN 050 209 991	Drawing Title:	PROPOSED BUS STOP STRUCTURAL DETAILS
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reception@craigandrhodes.com.au	Tel. 9669-1855	C&R Ref:	043-17 043-17C-CC-1801
www.craigandrhodes.com.au	© Craig & Rhodes Pty Ltd	Drawing Ref:	043-17C-CC-1801

CONSTRUCTION CERTIFICATE

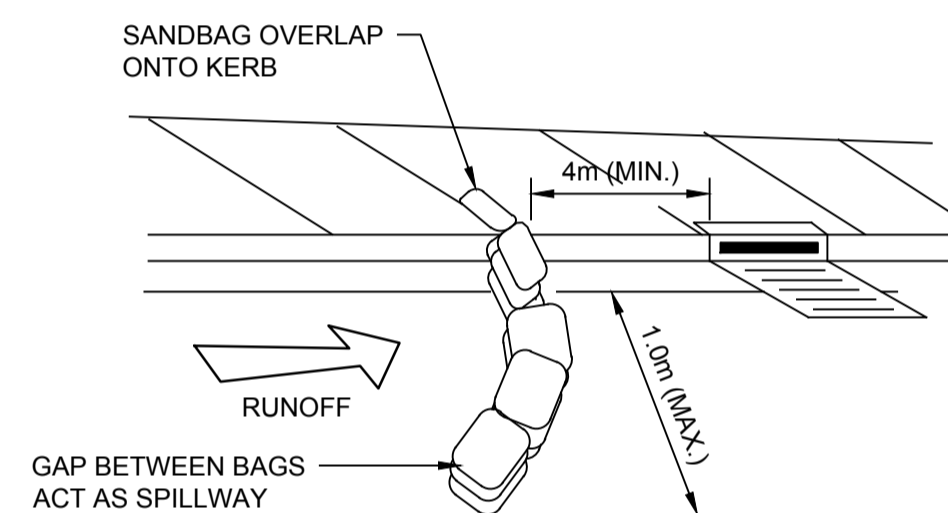
**LEGEND**



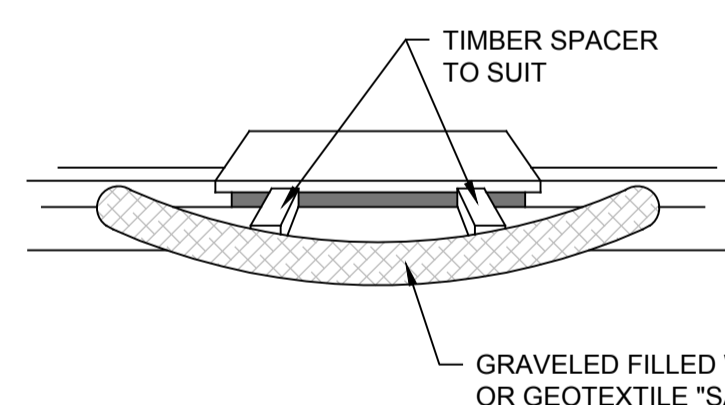
 KERB INLET SEDIMENT TRAP

**KERB INLET SEDIMENT FILTER**

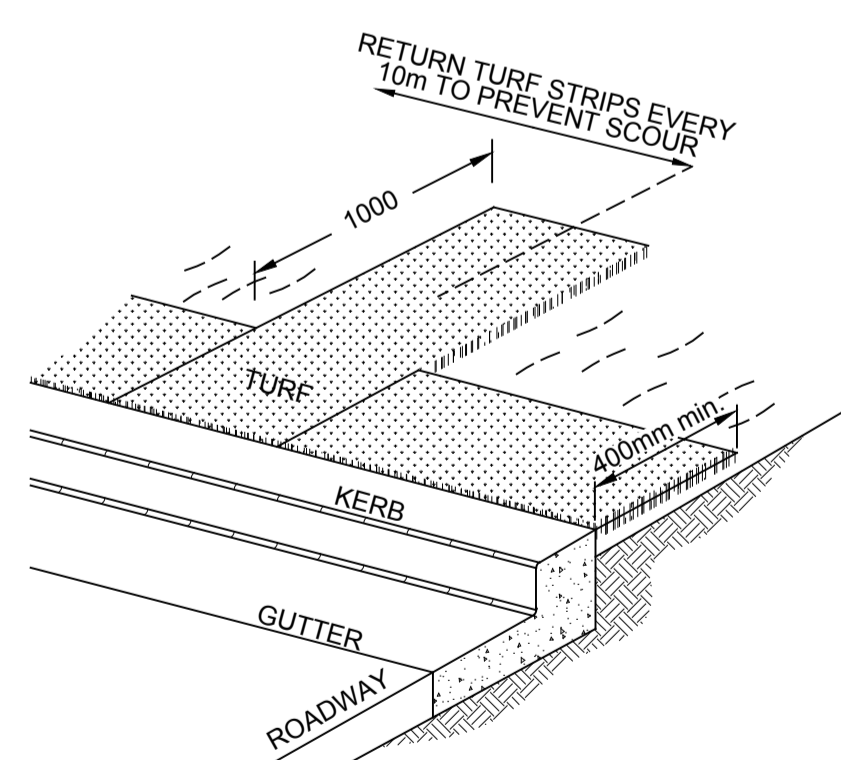
1. REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
2. ENSURE THAT THE INSTALLATION OF THE SEDIMENT TRAP WILL NOT CAUSE UNDESIRABLE SAFETY OR FLOODING ISSUES.
3. INSTALL SEDIMENT TRAP IN ACCORDANCE WITH STANDARD DRAWING SUPPLIED WITH THE APPROVED PLAN, OR AS DIRECTED BY THE SITE SUPERVISOR.
4. ENSURE THE SEDIMENT TRAP IS CONSTRUCTED UP-SLOPE OF AN ON-GRADE KERB INLET. THE SEDIMENT TRAP MUST NOT SURROUND THE KERB INLET UNLESS SPECIFICALLY DIRECTED BY THE SITE SUPERVISOR.
5. ENSURE THE SEDIMENT TRAP FULLY ENCLOSES THE KERB INLET. USE APPROPRIATE SPACERS TO ENSURE THE SEDIMENT TRAP DOES NOT BLOCK THE SIDE-ENTRY INLET.
6. TAKE ALL NECESSARY MEASURE TO MINIMISE THE SAFETY RISK CAUSED BY THE STRUCTURE



**KERB INLET SEDIMENT FILTER (ON GRADE)**  
SCALE NTS



**KERB INLET SEDIMENT FILTER (SAG)**  
SCALE NTS

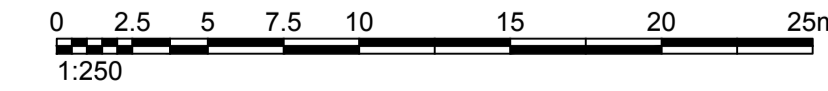


**KERBSIDE TURF STRIP**

1. INSTALL A 400mm MINIMUM WIDE ROLL OF TURF ON THE FOOTPATH NEXT TO THE KERB AND AT THE SAME LEVEL AS THE TOP OF THE KERB.
2. LAY 1.4m LONG TURF STRIPS NORMAL TO THE KERB EVERY 10m.
3. REHABILITATE DISTURBED SOIL BEHIND THE TURF STRIP FOLLOWING THE ESCP/SWMP.



**PLAN**  
SCALE 1:250

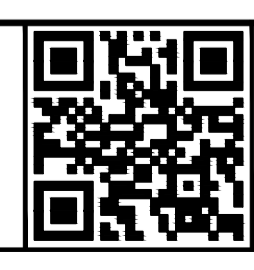


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	LGA: HORNSBY SHIRE COUNCIL
Scale:	Datum:
AS SHOWN	AHD

Project: PROPOSED FOOTPATH RECONSTRUCTION  
HULL ROAD AND HANNAH STREET



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Drawing Title:	Revision:
SEDIMENT AND EROSION CONTROL PLAN AND DETAILS	B
C&R Ref:	Drawing Ref:
043-17	043-17C-CC-1901

**CONSTRUCTION CERTIFICATE**