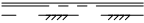
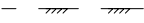
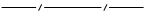
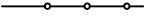

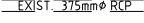



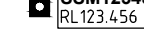
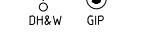










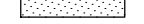

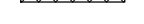
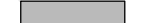



PENNANT HILLS TO EPPING CYCLEWAY

SECTION B - BEECROFT VILLAGE GREEN TO THE CRESCENT (CH220.000 TO CH345.000)

LEGEND

-  EXISTING KERB & GUTTER.
-  EXISTING EDGE OF BITUMEN.
-  EXISTING FENCE.
-  PROPOSED NEW FENCE.
-  EXISTING CONCRETE PATH EDGE.
-  EXISTING STORMWATER PIPE.
-  EXISTING POWER POLE.
-  EXISTING TREE / TREE TO BE REMOVED.
-  SURVEY TRAVERSE STATION.
-  STATE SURVEY MARK.
-  SURVEY REFERENCE MARKS - DRILL HOLE & WING/GALVANISED IRON PIPE.
-  EXISTING SEWER MANHOLE.
-  EXISTING FIRE HYDRANT.
-  EXISTING WATER STOP VALVE.
-  EXISTING TELSTRA PIT.
-  EXISTING SEWER MAIN.
-  EXISTING U/G TELSTRA CABLES.
-  EXISTING U/G GAS MAIN.
-  EXISTING U/G ELECTRICAL CABLES.
-  EXISTING OVERHEAD ELECTRICAL CABLES.
-  EXISTING WATER MAIN.
-  EXTENT OF NEW PAVEMENT CONSTRUCTION (REFER TO COUNCIL DWG No.432.6 FOR DETAILS).
-  EXTENT OF DRIVEWAY RECONSTRUCTION REINSTATED WITH EXISTING OR MATCHING MATERIALS UNLESS NOTED OTHERWISE.
-  EXTENT OF NEW FOOTPATH CONSTRUCTION. ALL PATHS N25 CONCRETE (REFER TO SHEET No.3 FOR DETAILS).
-  EXTENT OF EXISTING FIBRE REINFORCED PLASTIC GRATING.
-  TREE LABELS (REFER TO HSC DWG No.432.5 FOR DETAILS)

DRAWING SCHEDULE		
SHEET No.	TITLE	ISSUE
1	DRAWING SCHEDULE, LOCALITY PLAN & LEGEND.	1
2	PROJECT NOTES.	1
3	TYPICAL CROSS SECTION & PATH JOINT DETAILS.	1
4	CONTROL LINE 1 SETOUT PLAN & DETAILS.	1
5	GENERAL WORKS & SERVICES PLAN.	1
6	CL1 CROSS SECTIONS - CH230.000 TO CH290.923	1
7	CL1 CROSS SECTIONS - CH295.000 TO CH355.000 & BOLLARD DETAILS.	1
8	RETAINING WALL PLAN & DEVELOPED ELEVATION.	1
9	RETAINING WALL SECTIONS & JOINTING DETAILS.	1
10	RETAINING WALL JOINT DETAILS & NOTES.	1

NOTE:
THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH HSC DRAWING No.432.5.
(COMPLETE SET OF CIVIL DESIGN DRAWINGS FOR SECTION B).



LOCALITY PLAN
NOT TO SCALE

TREE PROVENANCE LEGEND

- LOCAL INDIGENOUS
- OTHER INDIGENOUS
- EXOTIC INTRODUCED
- INVASIVE WEED SPECIES

ASSET MANAGEMENT & MAINTENANCE BRANCH

Senior Asset Engineer
Name: **A. BOYD** Telephone: 9847 6672
Accepted as complying with the general intent of the design brief

Signed: _____ Date: _____
Project Number: **100345**

Sheet **1** of **10** Issue **1**

HSC Drawing Number: **432.8**

Hornsby Shire Council
Design & Construction
Branch

TELEPHONE: 021 9847 6666
EMAIL: hsc@hornsby.nsw.gov.au
Authorised for release - Manager Design & Construction
Name: **M. DRAKE** Signed: _____ Date: _____

Designer: **S. COMISH**
Signed: _____
Drawn: **S. COMISH**
Signed: _____
Surveyor: **LANDPARTNERS**
Field Book: **NA** Level Book: **NA** Datum: **GDA94**
Project Identifier \ CAD File Name: **H:\Penntant Hills to Epping Shared Path_OT_100345\Design\ACAD\Civil Design 2024.dwg**
TRIM Document Number: **D08952676**

Design Checked-Design Team Leader	Issue	Description	Name	Initial	Date
Signed: _____	1	ISSUED FOR CONSTRUCTION	D. TAMANG		

Bar Scales
NOT TO SCALE
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY



PENNANT HILLS TO EPPING CYCLEWAY - SECTION B - BEECROFT VILLAGE GREEN TO THE CRESCENT (CH220.000 TO CH345.000)

DRAWING SCHEDULE, LOCALITY PLAN & LEGEND

GENERAL NOTES:

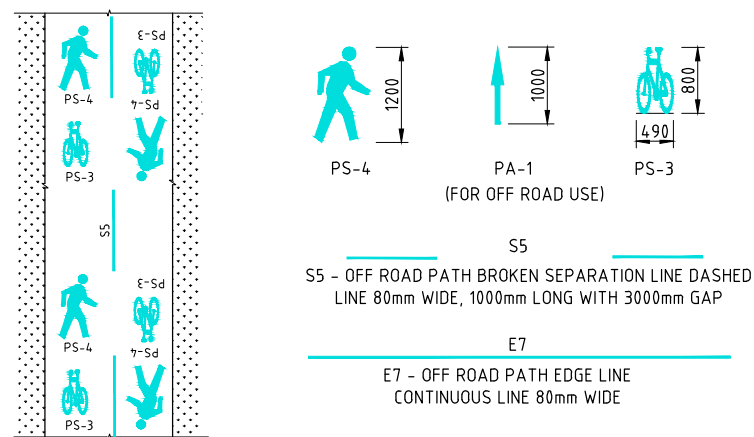
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS & SPECIFICATIONS OF HORNSBY SHIRE COUNCIL.
- LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS & NOT FROM SURVEY PEGS.
- PROVIDE TRAFFIC MANAGEMENT, LINE MARKING & SIGNAGE IN ACCORDANCE WITH THE TfNSW "TRAFFIC CONTROL AT WORK SITES" TECHNICAL MANUAL & AS1742.3 REQUIREMENTS.
- SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED FROM THE RELEVANT AUTHORITIES VIA A "DIAL BEFORE YOU DIG AUSTRALIA" ENQUIRY. THE LOCATION OF SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES & FIELD INVESTIGATIONS & ARE TO BE VERIFIED PRIOR TO CONSTRUCTION.
- EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION:- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.
- ALL DISTURBED AREAS OF THE SITE ARE TO BE REINSTATED WITH EXISTING OR MATCHING MATERIALS UNLESS NOTED OTHERWISE AT THE COMPLETION OF THE WORKS.
- WHERE WORKS ARE ADJACENT TO EXISTING STRUCTURES UNDERTAKE A DILAPIDATION SURVEY OF EXISTING ADJACENT STRUCTURES BEFORE COMMENCEMENT OF ANY WORKS.
- IF SET-OUT IS REQUIRED BY HORNSBY SHIRE COUNCIL DESIGN & CONSTRUCTION BRANCH SURVEYOR. NOTIFY ENGINEERING SURVEYOR A MINIMUM OF 24 HOURS IN ADVANCE.
- WHERE PAVEMENT RESURFACING IS UNDERTAKEN ENSURE ALL BLUE HYDRANT MARKER RRPMS ARE REINSTATED AT THE COMPLETION OF WORKS.
- REFER TO DENNIS MARSDEN OF THE SUGAR FACTORY ARBORIST'S REPORT DATED 18th SEPTEMBER 2018 FOR DETAILED TREE LISTING & HEALTH OF EXISTING VEGETATION. TRIM DOCUMENT # D08271286.

ACCESS & SAFETY NOTES:

- THE CONSTRUCTOR SHALL COMPLY WITH ALL STATUTORY & INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
- THE CONSTRUCTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON & APPROVED BY COUNCIL/REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.
- THE CONSTRUCTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS/RESIDENCES ADJACENT TO THE WORKS IS NOT DISRUPTED.
- WHERE NECESSARY THE CONSTRUCTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
- THE CONSTRUCTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

SIGNS & LINE MARKING NOTES:

- SIGNS & LINE MARKING TO BE INSTALLED IN ACCORDANCE WITH AS1742.9 -MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PART 9 BICYCLE FACILITIES, PART 2 TRAFFIC CONTROL DEVICES FOR GENERAL USE & THE REQUIREMENTS OF THE RTA NSW BICYCLE GUIDELINES MANUAL.
- WHERE POSSIBLE EXISTING SIGNAGE IS TO BE CLEANED / RELOCATED OR REUSED TO SUIT NEW WORK.
- ALL NEW LINE MARKING TO WHITE THERMOPLASTIC PAINT UNLESS NOTED OTHERWISE.
- LINE MARKING SHALL BE SPOTTED OUT & APPROVED PRIOR TO APPLICATION.



SHARED PATH PAVEMENT SYMBOL DETAILS
(INSTALLED AT START & END OF PATH, & AT APPROX. 90m INTERVALS)

TREE PROTECTION MEASURES:

- ALL WORKS WITHIN THE TREE ROOT ZONE OF ANY TREE/S TO BE RETAINED SHOULD NOT REDUCE THE USEFUL LIFE EXPECTANCY OF THE TREE/S & BE CARRIED OUT UNDER THE SUPERVISION OF AN 'AQF LEVEL 5 ARBORIST'.

TREE ROOT PROTECTION ZONES (TPZ)

TREE SIZE	TPZ
TREES WITH A DIAMETER AT BREAST HEIGHT GREATER THAN 800mm	9m
TREES WITH A DIAMETER AT BREAST HEIGHT BETWEEN 400mm & 800mm	7m
TREES WITH A DIAMETER AT BREAST HEIGHT LESS THAN 400mm	4m

SOIL LEVELS WITHIN THE TREE ROOT ZONE OF TREES TO BE RETAINED SHOULD REMAIN AT EXISTING GRADE & UNDISTURBED

EXCAVATION WITHIN THE TREE PROTECTION ZONE OF TREES TO BE RETAINED SHOULD BE CARRIED OUT BY HAND EXCAVATION ONLY. HAND EXCAVATION SHOULD BE CARRIED OUT UNDER THE SUPERVISION OF A QUALIFIED ARBORIST IN SUCH A MANNER THAT IS NON-INJURIOUS TO ANY ROOTS REVEALED.

NO TREE ROOT GREATER THAN 30mm DIAMETER LOCATED WITHIN THE TPZ OF ANY TREE TO BE RETAINED SHOULD BE SEVERED OR INJURED IN THE PROCESS OF ANY WORKS.

TREE ROOTS LESS THAN 30mm IN DIAMETER REQUIRED TO BE SEVERED SHALL BE CUT CLEANLY BY HAND BY A QUALIFIED & EXPERIENCED ARBORIST OR HORTICULTURIST WITH MINIMUM QUALIFICATIONS OF HORTICULTURAL CERTIFICATE OR TREE SURGERY CERTIFICATE (AQF 3).

- ALL PRUNING SHALL BE UNDERTAKEN AS SPECIFIED IN THE AUSTRALIAN STANDARD 'PRUNING OF AMENITY TREES' (AS 4373-2009).
- THE FILLING OR STOCKPILING OF BUILDING MATERIALS, PARKING OF VEHICLES OR PLANT, THE USE OF MACHINERY OTHER THAN HAND HELD, DISPOSAL OF CEMENT SLURRY, WASTE WATER OR OTHER CONTAINMENTS MUST REMAIN OUTSIDE THE TREE ROOT ZONE OF ANY TREE TO BE RETAINED.
- ANY MECHANICAL DAMAGE TO TREES OR CHEMICAL SPILLS WITHIN THE TRZ MUST BE REPORTED TO THE PROJECT SUPERVISOR/MANAGER.
- BARRIER MESH FENCING SHALL BE ERECTED AROUND RETAINED TREES WITHIN THE VILLAGE GREEN TO ENSURE THEY ARE PROTECTED FROM MACHINERY MISTAKENLY TRAVERSING BETWEEN TREES, THIS CAN BE IDENTIFIED/ DIRECTED BY PROJECT ARBORIST.

SEDIMENT & EROSION CONTROL NOTES:

- NO WORK SHALL BE UNDERTAKEN UNTIL ALL SEDIMENT & EROSION CONTROL MEASURES ARE IN PLACE & HAVE BEEN APPROVED BY THE CONSTRUCTION ENGINEER.
- ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED BY THE SITE SUPERVISOR ON A DAILY BASIS & SIGNED OFF ON THE BACK OF THE DAY SHEET. A CHECKLIST SHALL BE HANDED OVER TO THE PROJECT MANAGER AT THE END OF EACH DAY. STRUCTURES WILL ALSO BE INSPECTED AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE & ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SOIL STOCKPILE SITE. THE CONSTRUCTION ENGINEER MUST INFORM ALL CONTRACTORS & SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION CONTROL PLAN.
- SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION WINDROWED ON THE CONTOUR.
- TREES NEAR THE CONSTRUCTION ZONE NOT OTHERWISE PROTECTED BY FENCING SHALL BE PROTECTED IN ACCORDANCE WITH AS4970 SECTION 4.5. ALTERNATIVE PROTECTION MEASURES SATISFYING THE PROJECTS ARBORIST'S REQUIREMENTS IS ACCEPTABLE. TRUNK PROTECTION SHOULD BE MAINTAINED INTACT UNTIL THE COMPLETION OF ALL WORK ON THE SITE. ALL TREES REQUIRING REMOVAL ARE SHOWN ON THIS PLAN & SHALL BE MARKED ACCORDINGLY PRIOR TO REMOVAL.
- TOPSOIL FROM AREAS THAT WILL BE DISTURBED TO BE STRIPPED & STOCKPILED AT THE NOMINATED SITE.
- A MINIMUM STOCK OF THE FOLLOWING SHALL BE KEPT ON SITE AT ALL TIMES:
(A) 50m ROLL OF SEDIMENT FENCE & PEGS.
(B) 50m ROLL OF BIDIM GEOTEXTILE.
- ANY DISTURBED AREA OF LAND SHALL BE COMPACTED AT THE END OF EACH WORKING DAY & BEFORE ANY STORM EVENT.
- CONSTRUCTION AREA IS TO BE LIMITED AS SHOWN TO MINIMISE DISTURBANCE.
- SEDIMENT FENCING SHALL BE PLACED AROUND ANY STOCKPILE AREA.
- ALL EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION:- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.
- ALL DISTURBED AREAS SHALL BE TURFED WITHIN 14 DAYS OF FINAL TRIMMING.

SUBSOIL DRAINAGE NOTES:

- SUBSOIL DRAINAGE TO BE INSTALLED AS DIRECTED BY SUPERVISING CONSTRUCTION ENGINEER.

CONCRETE NOTES

(USING STEEL REINFORCED CONCRETE U.N.O.)

- MATERIALS AND CONSTRUCTION: TO AS 3600, AS 3610.
STEEL REINFORCEMENT MATERIALS: TO AS 4671.
- CONCRETE QUALITY: TO AS 1379
READY MIX CONCRETE: TO AS 1379
a) DO NOT USE ADMIXTURES WITHOUT WRITTEN APPROVAL FROM SUPERVISING ENGINEER.
b) CEMENT: TYPE 'GP' OR 'GB' TO AS 3972.
c) MAXIMUM SIZE OF COARSE AGGREGATE: 20mm.
d) CONCRETE SLUMP: 80mm U.N.O.

ELEMENT	CHARACTERISTIC CONCRETE STRENGTH(f'c) AT 28 DAYS	REINFORCEMENT	COVER (mm)	SPECIAL REQUIREMENTS
SHARED PATH	N25 (U.N.O.)	SL82	35	BROOM FINISH & BORAL INDIAN INK OR EQUIVALENT COLOUR.

REFER TO SHEET No.10 FOR RETAINING WALL FOOTING DETAILS.


- VERIFY STRENGTH BY PRODUCTION CONTROL TESTING TO AS 1379.
- NO UNSPECIFIED HOLES, DUCTING OR CHASES ARE PERMITTED WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING OFFICER). NO PIPES OR CONDUITS ARE PERMITTED WITHIN CONCRETE COVER.
- STRUCTURAL DIMENSIONS DO NOT INCLUDE TOPPING OR FINISHES.
- FORM CONSTRUCTION JOINTS ONLY AT LOCATIONS SHOWN ON DRAWINGS. DO NOT VARY WITHOUT WRITTEN APPROVAL FROM SUPERVISING ENGINEER.
- PREPARE COLD JOINTS BY LIGHT SCABBLING, REMOVAL OF DEBRIS & WASHING WITH CLEAN WATER.
- FOUNDATION MATERIALS MUST BE CAPABLE OF WITHSTANDING A SAFE BEARING PRESSURE OF 100kPa. VERIFY & RECORD THE BEARING CAPACITY BEFORE ANY CONCRETE IS PLACED.
- DO NOT PLACE CONCRETE UNTIL REINFORCEMENT (IF USED) & FORMWORK ARE INSPECTED BY SUPERVISING ENGINEER.
- THOROUGHLY CLEAN OUT ALL FORMWORK PRIOR TO POURING.
- DO NOT PLACE CONCRETE UNDER THE FOLLOWING CONDITIONS:
a) WHEN THE SURROUNDING OUTDOOR TEMPERATURE EXCEEDS 30°C.
b) WHEN THE SURROUNDING WIND SPEED EXCEEDS 12 KNOTS.
- IMPLEMENT THE FOLLOWING PROCEDURES TO MITIGATE PREMATURE DRYING & CRACKING OF THE CONCRETE:
a) IN HOT CONDITIONS, PROGRAM CONCRETE PLACEMENT FOR THE COOLER PART OF THE DAY (ie. EARLY MORNING).
b) SPRAY EVAPORATIVE RETARDERS WITH FUGATIVE DYES (eg. ALIPHATIC ALCOHOL) OVER THE SURFACE IMMEDIATELY AFTER SCREEDING & WHILST BLEED WATER IS STILL PRESENT. REAPPLY IF THE SURFACE IS DISTURBED.
c) COMMENCE CURING IMMEDIATELY AFTER FINISHING. CURE FOR 7 DAYS.
- VIBRATE CONCRETE DURING PLACEMENT TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION.
- SURFACE FINISH - REFER TO DRAWINGS FOR DETAILS.
- COMMENCE CURING OF ALL CONCRETE SURFACES IMMEDIATELY ON FINISHING & CONTINUE FOR 7 DAYS MIN.
- EXPANSION JOINTS & ISOLATION JOINTS ARE TO BE SEALED TO MANUFACTURER'S SPECIFICATIONS WITH A GUN GRADE POLYURETHANE LOW MODULUS SELF PRIMING SEALANT EQUAL TO 'TREMCO DYMONIC NT' (+100%, -50% MOVEMENT CAPACITY). SEALANT COLOUR GREY OR EQUIVALENT.

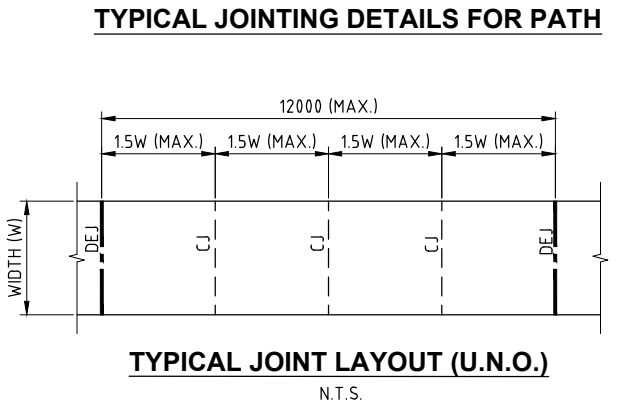
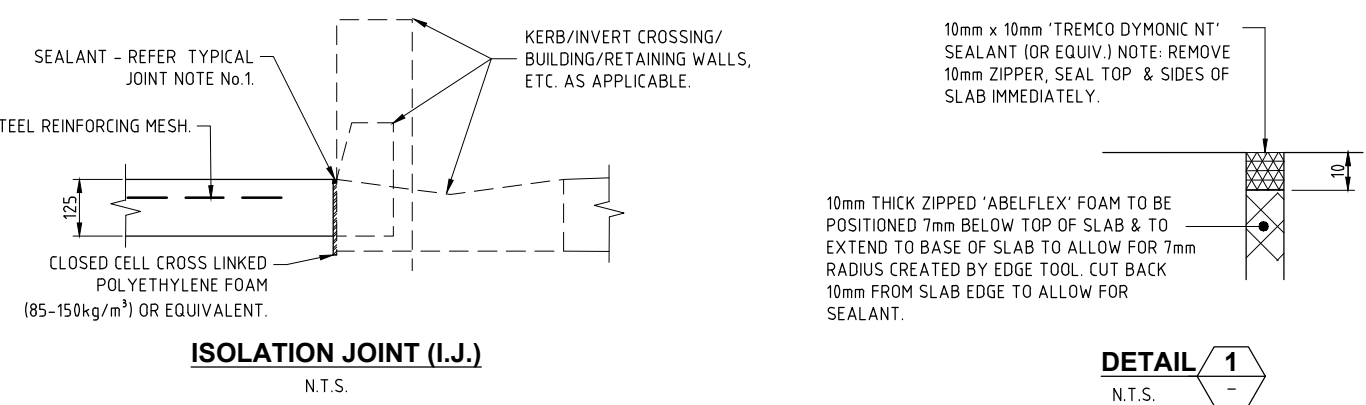
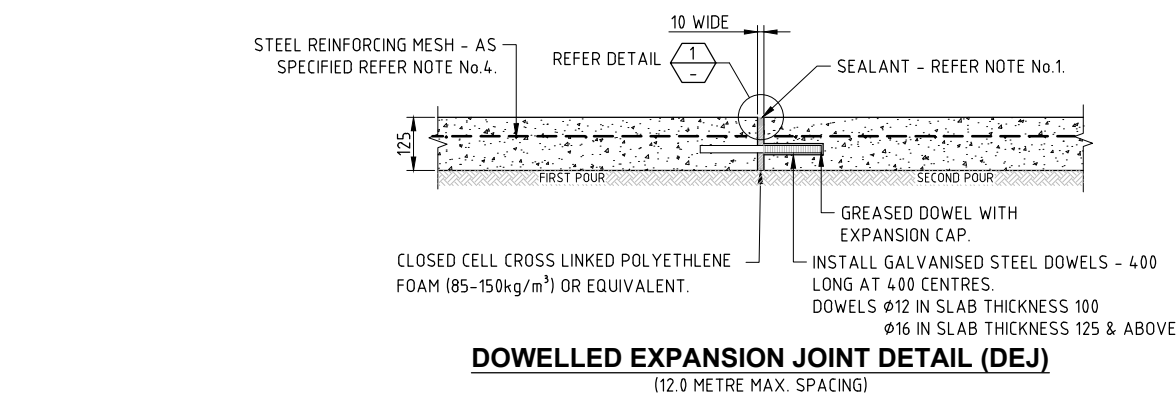
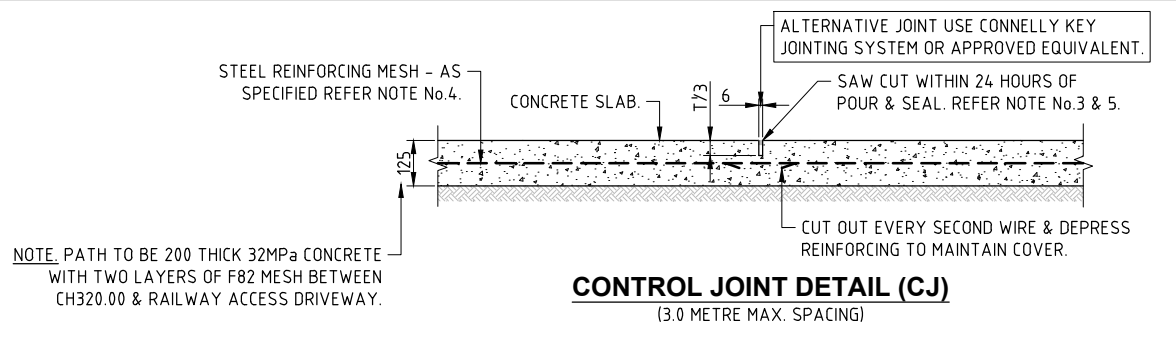
SEDIMENTATION FENCING NOTES:

- SEDIMENT FENCE TO BE CONSTRUCTED BY STRETCHING A FILTER FABRIC APPROVED BY THE PROJECT MANAGER BETWEEN POSTS AT 3.0m CENTRES. FABRIC TO BE BURIED A MINIMUM OF 150mm ALONG IT'S LOWER EDGE.
- SEDIMENT FENCE IS TO BE INSTALLED & APPROVED BY THE PROJECT MANAGER BEFORE OVERBURDEN IS REMOVED. THIS FENCE MAY REQUIRE REPLACEMENT AT TIMES IF LOCATED WITHIN OR NEARBY CONSTRUCTION ZONES.
- CLEAN BEHIND FENCE AFTER EACH MAJOR STORM OR OTHERWISE AS DIRECTED & REMOVE ALL SILT FROM THE SITE. SITE DISPOSAL WILL ONLY BE APPROVED WHERE IT CAN BE ESTABLISHED THAT NO FURTHER EROSION OF THE MATERIAL CAN OCCUR.

ABORIGINAL ARTIFACT NOTES:

- AN AHMS WEB SEARCH HAS BEEN UNDERTAKEN FOR THIS PROJECT (REF: 625247). INCLUDING AN EXTENSIVE SEARCH & IDENTIFIED A SITE ID: 45-6-3082 LOCATED AT THE INTERSECTION OF THE CRESCENT & THE PROMENADE. A DETAILED PHYSICAL SEARCH WAS UNDERTAKEN BY AWABAKAI & GURIHAGI PTY LTD ON THE 11 OCTOBER 2021 & IN THERE VIEW NO ARTIFACT IS PRESENT & WORKS CAN BE UNDERTAKEN. SHOULD ANY POTENTIAL ARTIFACTS BE UNCOVERED THEY ARE NOT TO BE REMOVED FROM THE SITE & SHALL BE IMMEDIATELY REPORTED TO COUNCIL'S PROJECT MANAGER.

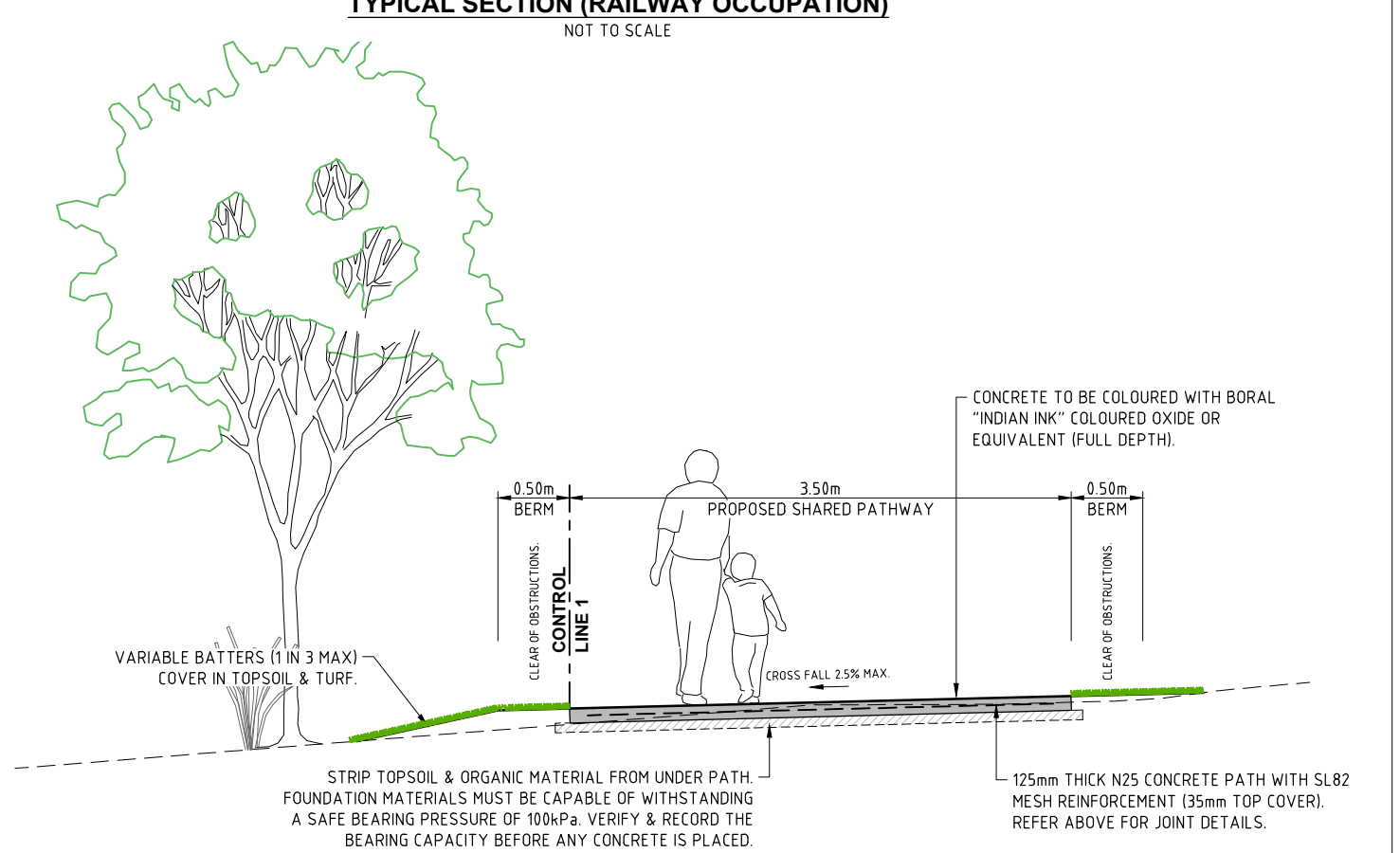
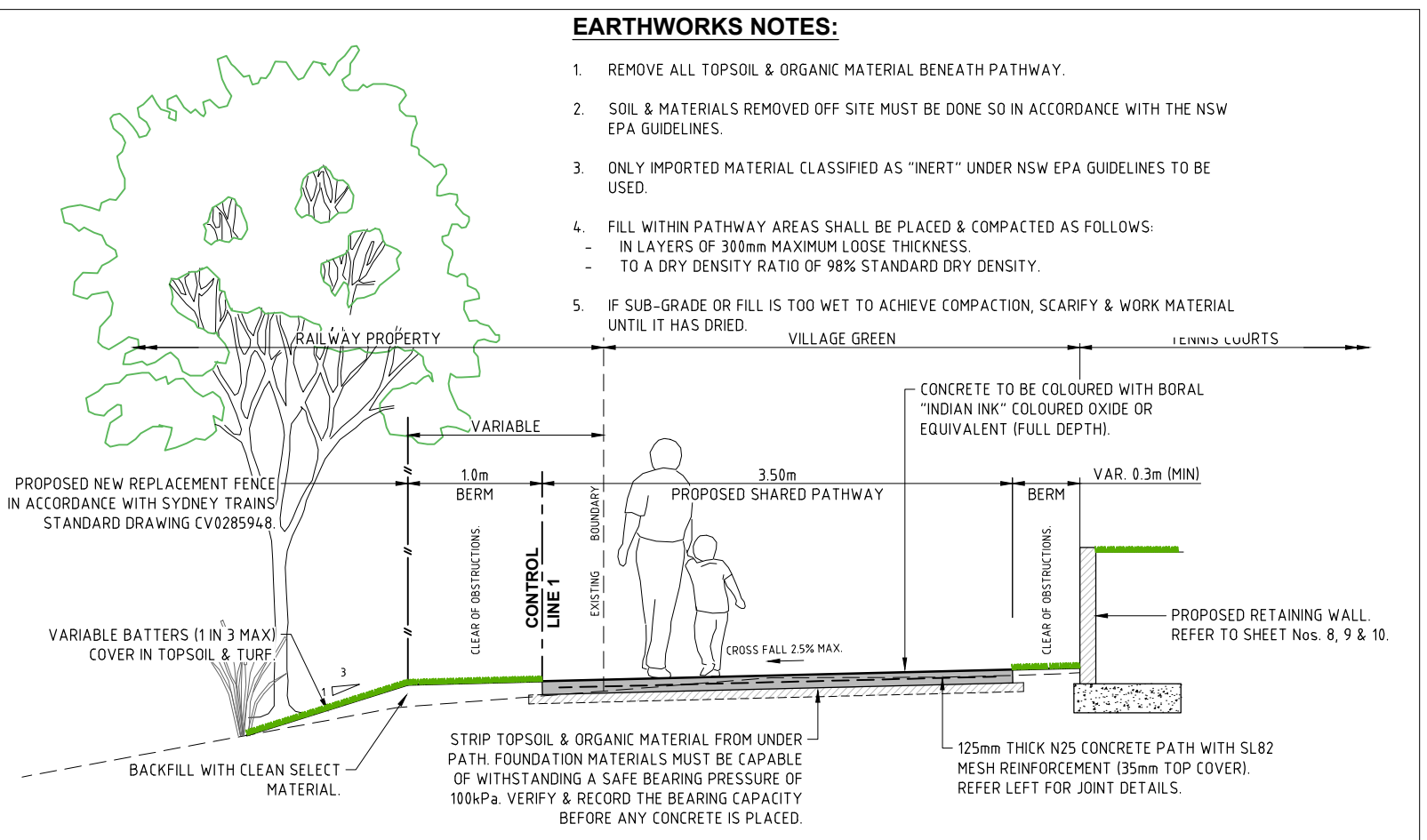
Hornsby Shire Council Design & Construction Branch <small>TELEPHONE: (02) 9547 6666 EMAIL: hsc@hornsby.nsw.gov.au</small>	Designer S. COMISH	Design Checked-Design Team Leader			Bar Scales NOT TO SCALE		PENNANT HILLS TO EPPING CYCLEWAY - SECTION B - BEECROFT VILLAGE GREEN TO THE CRESCENT (CH220.000 TO CH345.000)	Project Number 100345	
	Drawn S. COMISH	Signed:						Sheet of 2 10	Issue 1
	Surveyor LANDPARTNERS	NA Field Book	NA Level Book	AHD Datum					
	Project Identifier\VCAD File Name H:\Pennant Hills to Epping Shared Path_OT_100345\Design\ACAD\Civil Design 2024.dwg							Issue	ISSUED FOR CONSTRUCTION
Authorised for release - Manager Design & Construction Name: M. DRAKE				TRIM Document Number D08952676	Description Design not to be amended without authorisation by Manager Design & Construction	Name Initial Date	PROJECT NOTES		



- DOWEL NOTES:**
- GREASE DOWEL IN SECOND POUR.
 - ENSURE DOWELS ARE STRAIGHT, PERPENDICULAR TO JOINT & CAPPED. (USE OF PROPRIETARY SLEEVE MAY BE REQUIRED).
 - DO NOT DISPLACE DURING POUR.

- TYPICAL JOINT NOTES:**
- EXPANSION JOINTS & CONTROL JOINTS ARE TO BE SEALED WITH A LOW MODULUS SELF PRIMING SEALANT TO THE MANUFACTURERS SPECIFICATION. THE COLOUR OF THE SEALANT SHALL MATCH THE ADJOINING SURFACE FINISH.
 - ALL CONCRETE CONSTRUCTION TO COMPLY WITH THE REQUIREMENTS OF AS 3600 - CONCRETE CODE.
 - CONTROL JOINTS TO BE SQUARE TO SIDES.
 - WHERE SPECIFIED, STEEL REINFORCEMENT MESH TO COMPLY WITH AS/NZS 4671.
 - CONTROL JOINTS ARE TO BE SAWCUT WITHIN 24 HOURS OF POUR & THEN SEALED. REFER NOTE No.3.

- EARTHWORKS NOTES:**
- REMOVE ALL TOPSOIL & ORGANIC MATERIAL BENEATH PATHWAY.
 - SOIL & MATERIALS REMOVED OFF SITE MUST BE DONE SO IN ACCORDANCE WITH THE NSW EPA GUIDELINES.
 - ONLY IMPORTED MATERIAL CLASSIFIED AS "INERT" UNDER NSW EPA GUIDELINES TO BE USED.
 - FILL WITHIN PATHWAY AREAS SHALL BE PLACED & COMPACTED AS FOLLOWS:
 - IN LAYERS OF 300mm MAXIMUM LOOSE THICKNESS.
 - TO A DRY DENSITY RATIO OF 98% STANDARD DRY DENSITY.
 - IF SUB-GRADE OR FILL IS TOO WET TO ACHIEVE COMPACTION, SCARIFY & WORK MATERIAL UNTIL IT HAS DRIED.



Hornsby Shire Council
Design & Construction
Branch

TELEPHONE: (02) 9547 6666
EMAIL: hsc@hornsby.nsw.gov.au

Authorised for release - Manager Design & Construction
Name: M. DRAKE Signed: Date:

Designer S. COMISH	Design Checked-Design Team Leader		
Drawn S. COMISH	Signed:		
Surveyor LANDPARTNERS	NA	NA	AHD
Field Book	Level Book	Datum	
Project Identifier\CAD File Name H\Penmant Hills to Epping SharedPath_OT_100345\Design\ACAD\Civil Design\2024.dwg	1		
TRM Document Number D08952676	Issue	Description	Name Initial Date
Design not to be amended without authorisation by Manager Design & Construction			DO NOT SCALE, USE FIGURED DIMENSIONS ONLY

Bar Scales	
NOT TO SCALE	

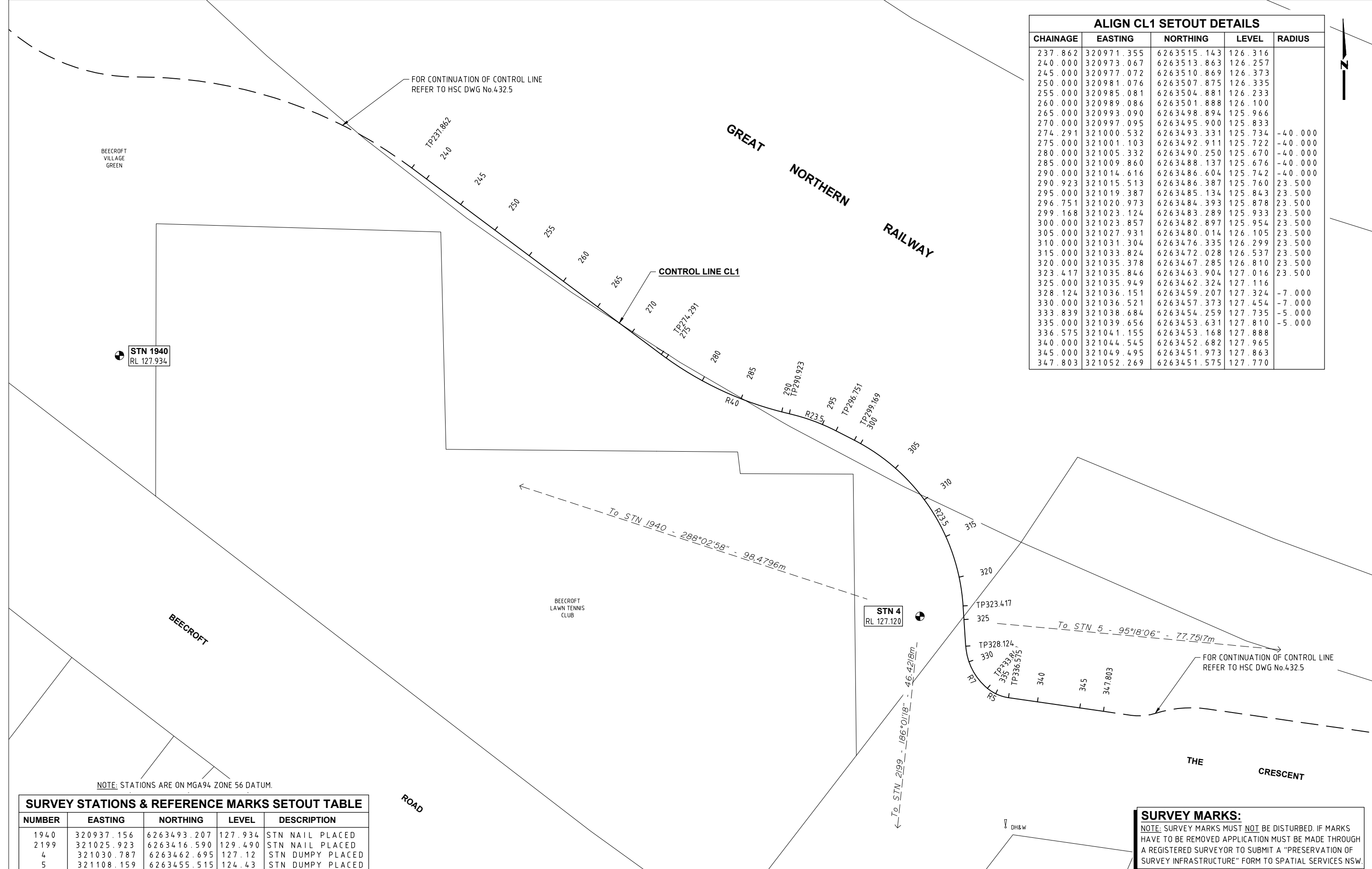


PENNANT HILLS TO EPPING CYCLEWAY - SECTION B - BEECROFT VILLAGE GREEN TO THE CRESCENT (CH220.000 TO CH345.000)

TYPICAL SECTION & CONCRETE JOINT DETAILS

Project Number 100345	Sheet 3	of 10	Issue 1
HSC Drawing Number 432.8			

ALIGN CL1 SETOUT DETAILS				
CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS
237.862	320971.355	6263515.143	126.316	
240.000	320973.067	6263513.863	126.257	
245.000	320977.072	6263510.869	126.373	
250.000	320981.076	6263507.875	126.335	
255.000	320985.081	6263504.881	126.233	
260.000	320989.086	6263501.888	126.100	
265.000	320993.090	6263498.894	125.966	
270.000	320997.095	6263495.900	125.833	
274.291	321000.532	6263493.331	125.734	-40.000
275.000	321001.103	6263492.911	125.722	-40.000
280.000	321005.332	6263490.250	125.670	-40.000
285.000	321009.860	6263488.137	125.676	-40.000
290.000	321014.616	6263486.604	125.742	-40.000
290.923	321015.513	6263486.387	125.760	23.500
295.000	321019.387	6263485.134	125.843	23.500
296.751	321020.973	6263484.393	125.878	23.500
299.168	321023.124	6263483.289	125.933	23.500
300.000	321023.857	6263482.897	125.954	23.500
305.000	321027.931	6263480.014	126.105	23.500
310.000	321031.304	6263476.335	126.299	23.500
315.000	321033.824	6263472.028	126.537	23.500
320.000	321035.378	6263467.285	126.810	23.500
323.417	321035.846	6263463.904	127.016	23.500
325.000	321035.949	6263462.324	127.116	
328.124	321036.151	6263459.207	127.324	-7.000
330.000	321036.521	6263457.373	127.454	-7.000
333.839	321038.684	6263454.259	127.735	-5.000
335.000	321039.656	6263453.631	127.810	-5.000
336.575	321041.155	6263453.168	127.888	
340.000	321044.545	6263452.682	127.965	
345.000	321049.495	6263451.973	127.863	
347.803	321052.269	6263451.575	127.770	



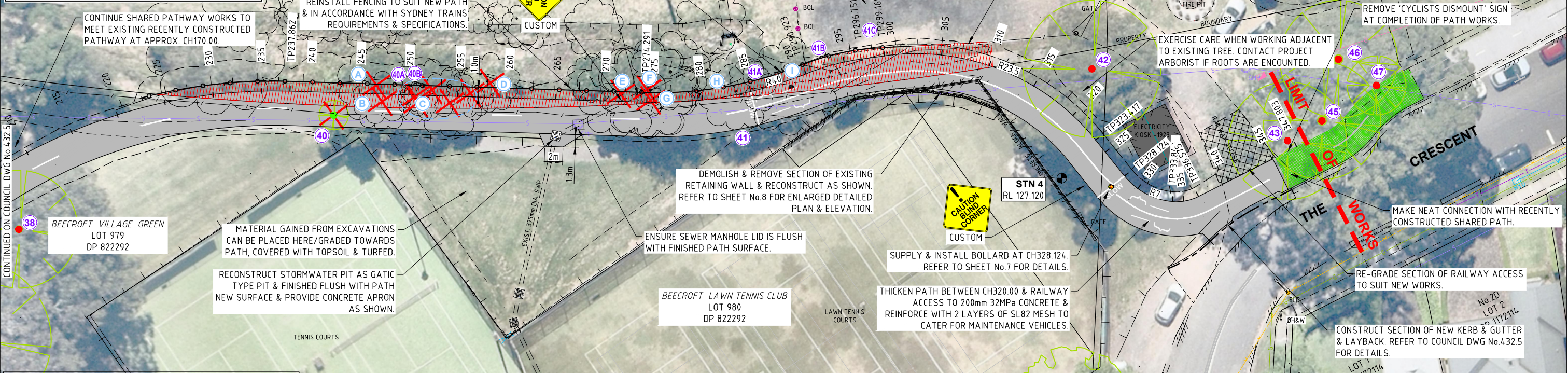
SURVEY MARKS:
 NOTE: SURVEY MARKS MUST NOT BE DISTURBED. IF MARKS HAVE TO BE REMOVED APPLICATION MUST BE MADE THROUGH A REGISTERED SURVEYOR TO SUBMIT A "PRESERVATION OF SURVEY INFRASTRUCTURE" FORM TO SPATIAL SERVICES NSW.

NOTE: STATIONS ARE ON MGA94, ZONE 56 DATUM.

NUMBER	EASTING	NORTHING	LEVEL	DESCRIPTION
1940	320937.156	6263493.207	127.934	STN NAIL PLACED
2199	321025.923	6263416.590	129.490	STN NAIL PLACED
4	321030.787	6263462.695	127.12	STN DUMPY PLACED
5	321108.159	6263455.515	124.43	STN DUMPY PLACED

Hornsby Shire Council Design & Construction Branch TELEPHONE: (02) 9547 6666 EMAIL: hsc@hornsby.nsw.gov.au	Designer S. COMISH Signed: _____	Design Checked-Design Team Leader Signed: _____	Bar Scales SCALE 1:1000 @ A1	 HORNSBY SHIRE COUNCIL PO BOX 37, HORNSBY NSW 1630	PENNANT HILLS TO EPPING CYCLEWAY - SECTION B - BEECROFT VILLAGE GREEN TO THE CRESCENT (CH220.000 TO CH345.000) CONTROL LINE 1 SETOUT PLAN & DETAILS	Project Number 100345
	Drawn S. COMISH Signed: _____	Surveyor LANDPARTNERS NA NA AHD Field Book Level Book Datum	Project Identifier\CAD File Name H:\Pennant Hills to Epping Shared Path_OT_100345\Design\ACAD\Civil Design 2024.dwg			Sheet of 4 10
Authorised for release - Manager Design & Construction Name: M. DRAKE Signed: _____ Date: _____	TRM Document Number D08952676	Issue Description Name Initial Date 1 ISSUED FOR CONSTRUCTION D. TAMANG	DO NOT SCALE, USE FIGURED DIMENSIONS ONLY	HSC Drawing Number 432.8	Design not to be amended without authorisation by Manager Design & Construction	

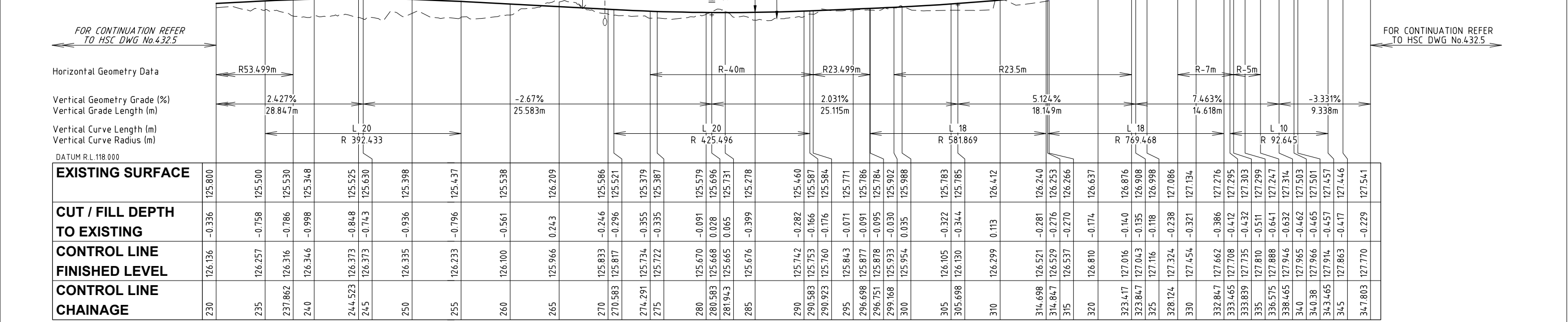
WARNING
BEWARE OF UNDERGROUND SERVICES
 THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM KNOWN POSITIONS OF VALVES, MANHOLES ETC. AND/OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.



TREE #	SPECIES	REMARKS
A	Allocasuarina littoralis	
B	Large leaf privet	Group of five
C	Large leaf privet	
D	Grevillea robusta	
E	Large leaf privet	
F	Campor laureal celtis	
G	Bursaria spinosa	
H	Acacia falcata	Fallen over/dead
I	Acacia paramattensis	Dead

NOTE: IDENTIFICATION OF VEGETATION IN THIS AREA WAS UNDERTAKEN BY COUNCIL'S NATURAL RESOURCES BRANCH.

PROPOSED AREA OF RAILWAY PROPERTY REQUIRED = 179m²



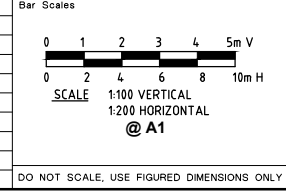
LONGITUDINAL SECTION - ALIGN CL1

SCALE 1:200 HOR
 1:100 VERT

Hornsby Shire Council
Design & Construction
Branch

Designer S. COMISH	Design Checked-Design Team Leader
Drawn S. COMISH	Signed:
Surveyor LANDPARTNERS	Field Book
Project Identifier-V-CAD File Name H:\V\Pennant Hills to Epping Shared Path_OT_100345\Design\ACAD\Civil Design 2024.dwg	Level Book
Authorised for release - Manager Design & Construction	AHD Datum
Name: M. DRAKE	TRIM Document Number D08952676

1	ISSUED FOR CONSTRUCTION	D. TAMANG
Issue	Description	Name
		Initial
		Date



PENNANT HILLS TO EPPING CYCLEWAY - SECTION B - BEECROFT VILLAGE GREEN TO THE CRESCENT (CH220.000 TO CH345.000)

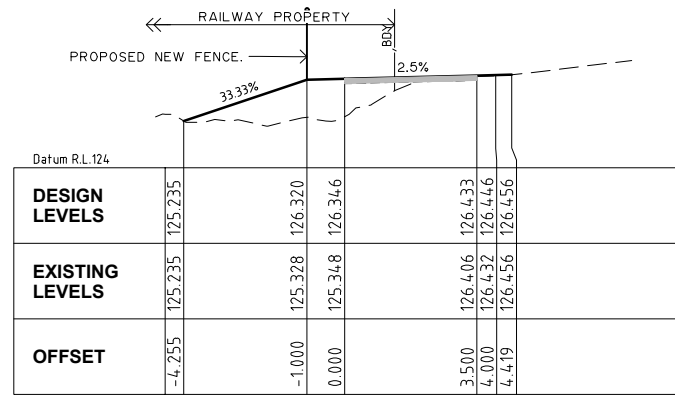
GENERAL WORKS & SERVICES PLAN

Project Number 100345
Sheet of 5 10
Issue 1
HSC Drawing Number 432.8

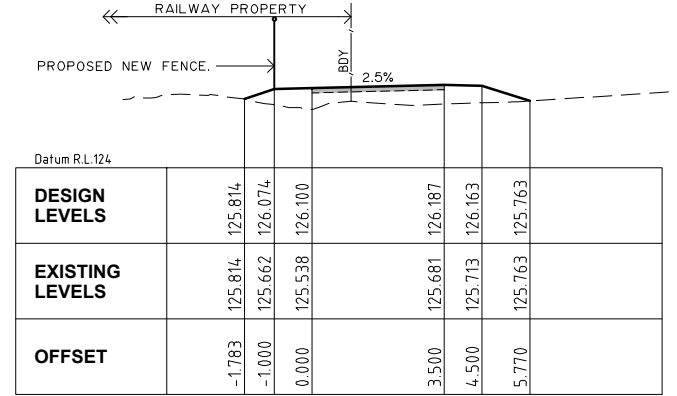
REFER TO SHEET No.4 FOR SURVEY STATION SETOUT DETAILS.

REFER TO SHEET No.9 FOR SETOUT DETAILS.

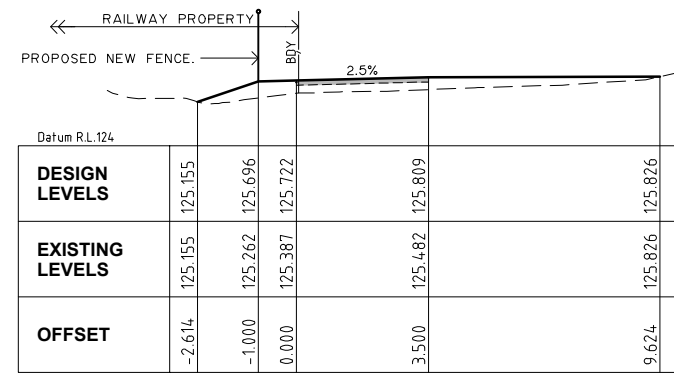
NOTE: THESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH HSC DWG No.432.5.



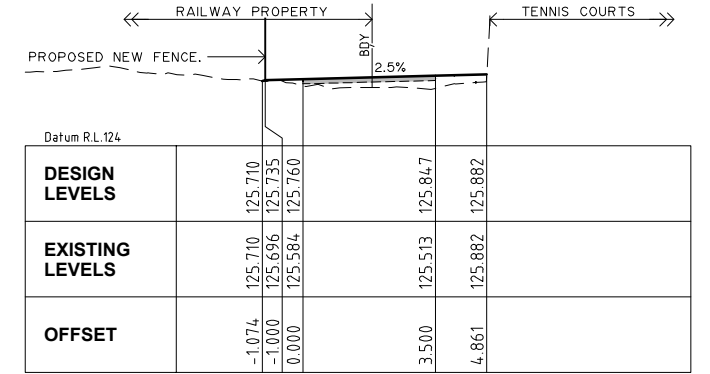
CH 240.000



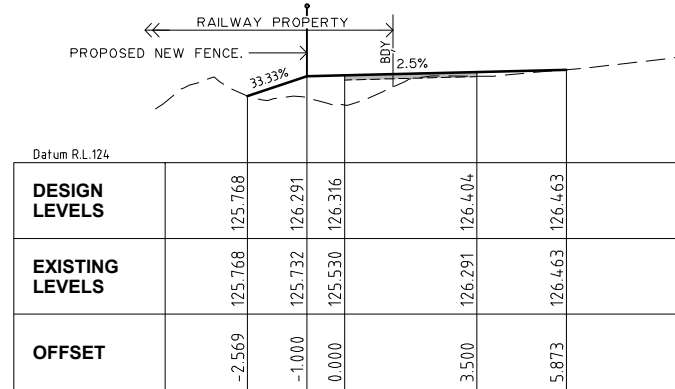
CH 260.000



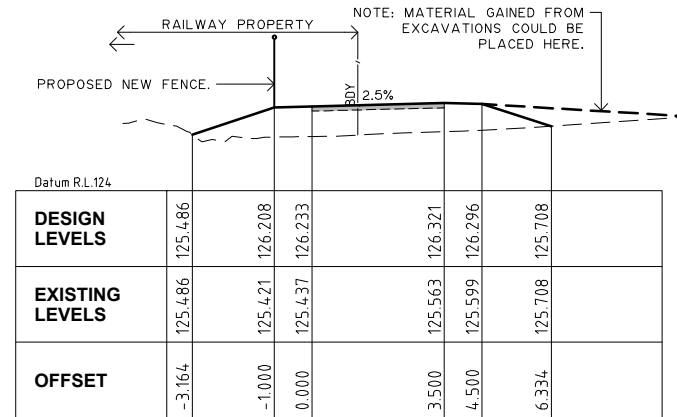
CH 275.000



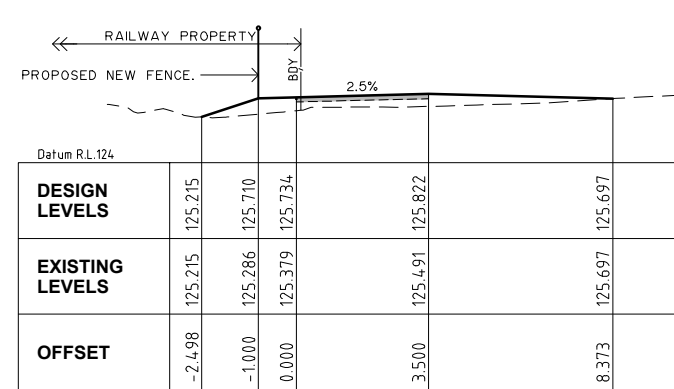
CH 290.923



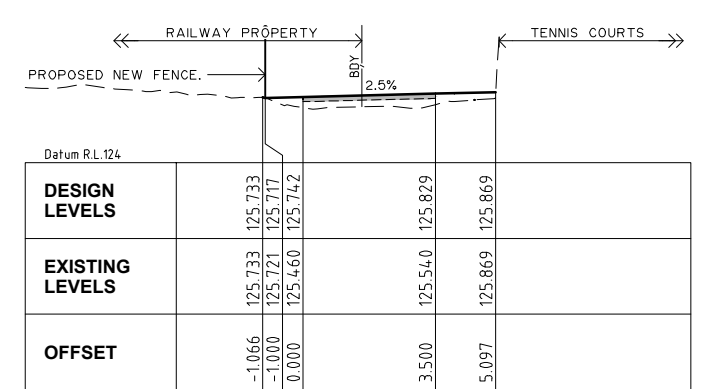
CH 237.862



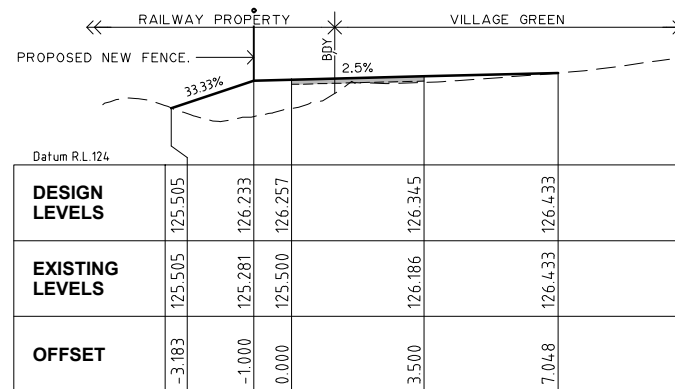
CH 255.000



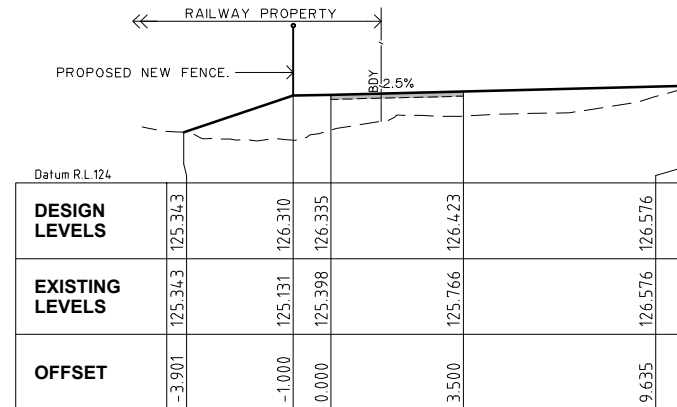
CH 274.291



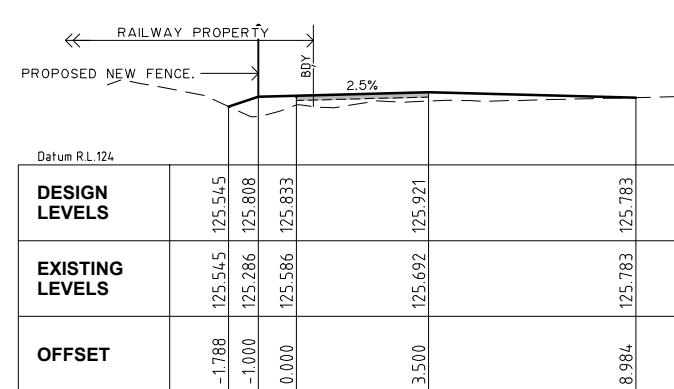
CH 290.000



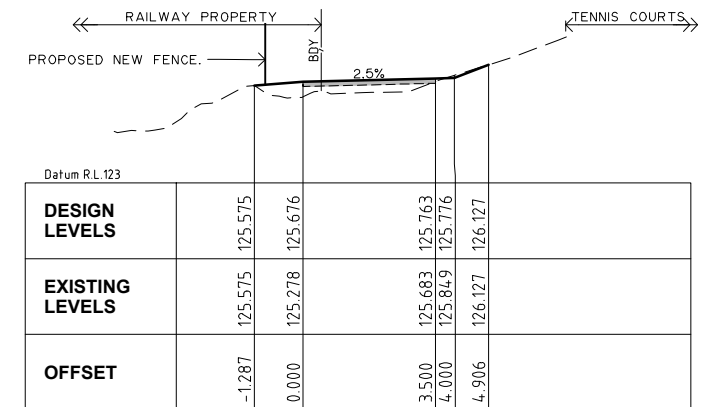
CH 235.000



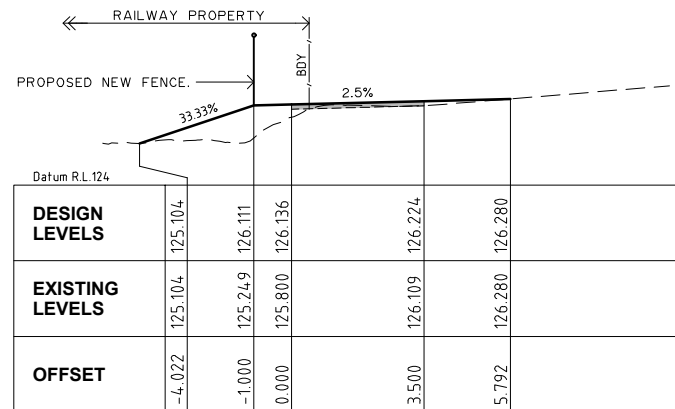
CH 250.000



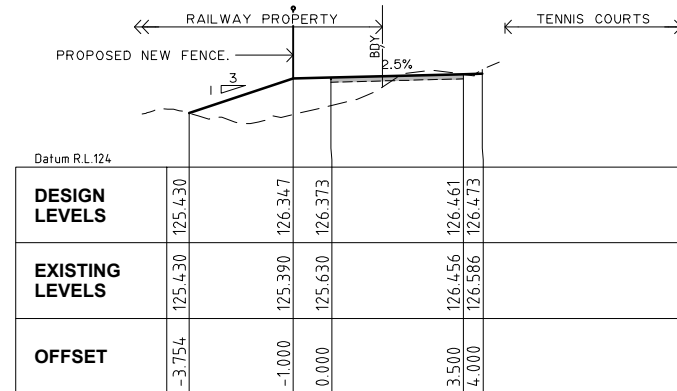
CH 270.000



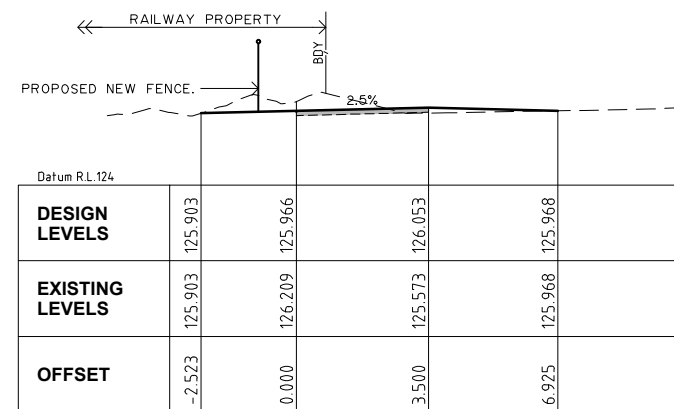
CH 285.000



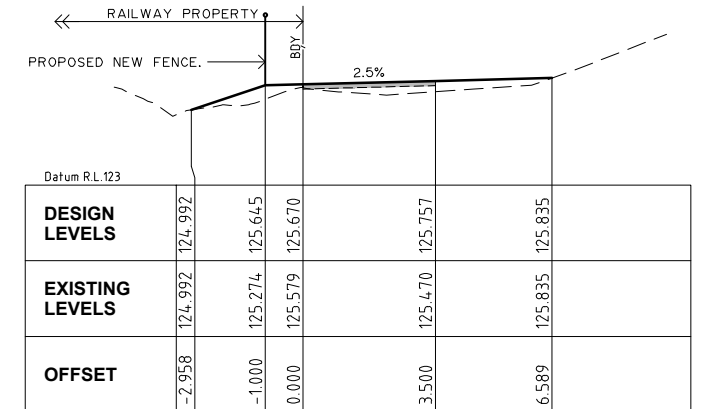
CH 230.000



CH 245.000



CH 265.000

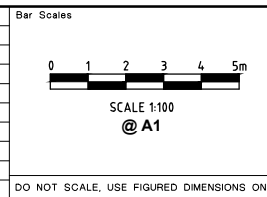


CH 280.000

**Hornsby Shire Council
Design & Construction
Branch**

Designer
S. COMISH
Signed: _____
Drawn
S. COMISH
Signed: _____
Surveyor
LANDPARTNERS
Field Book NA Level Book NA AHD Datum
Project Identifier \ CAD File Name
H:\Penant Hills to Epping Shared Path_OT_100345\Design\ACAD\Civil Design 2024.dwg
TRM Document Number
D08952676

1	ISSUED FOR CONSTRUCTION	D. TAMANG		
Issue	Description	Name	Initial	Date
Design not to be amended without authorisation by Manager Design & Construction				

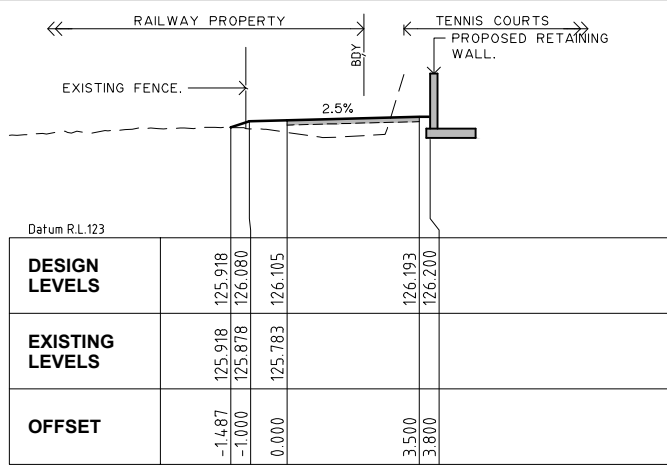


**PENNANT HILLS TO EPPING CYCLEWAY -
SECTION B - BEECROFT VILLAGE GREEN TO
THE CRESCENT (CH220.000 TO CH345.000)**

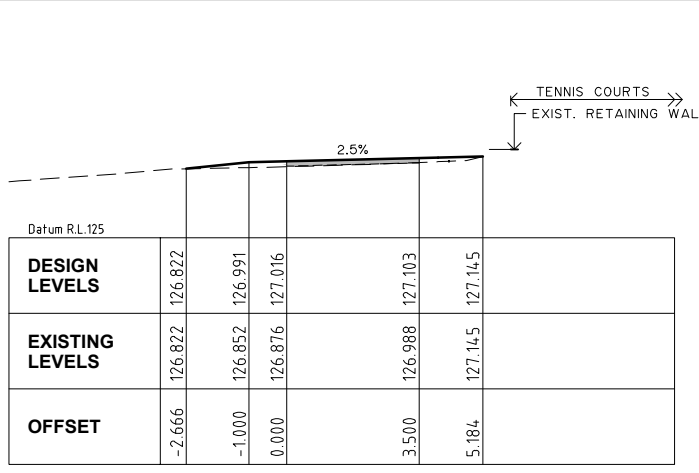
CL CROSS SECTIONS - CH230.000 TO CH290.923

Project Number	100345		
Sheet of	6	10	Issue
HSC Drawing Number	432.8		

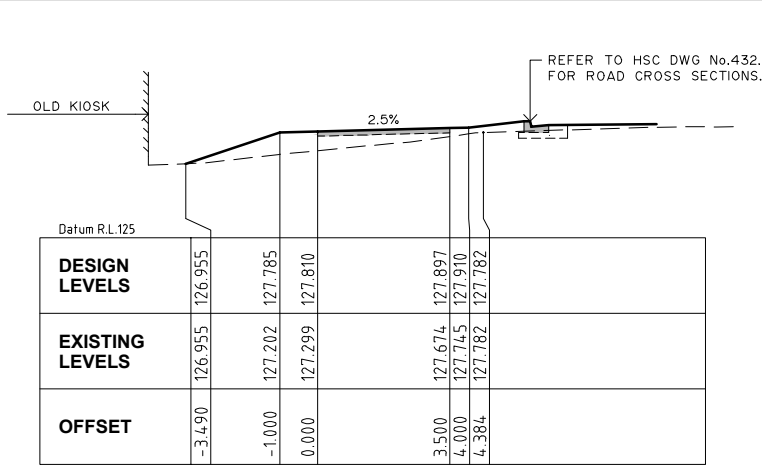
Authorised for release - Manager Design & Construction
Name: **M. DRAKE** Signed: _____ Date: _____



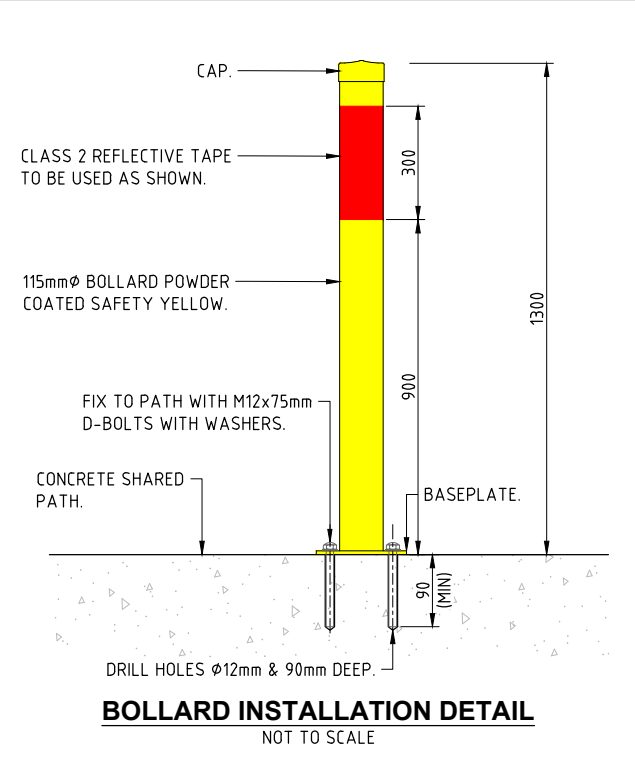
CH 305.000



CH 323.417

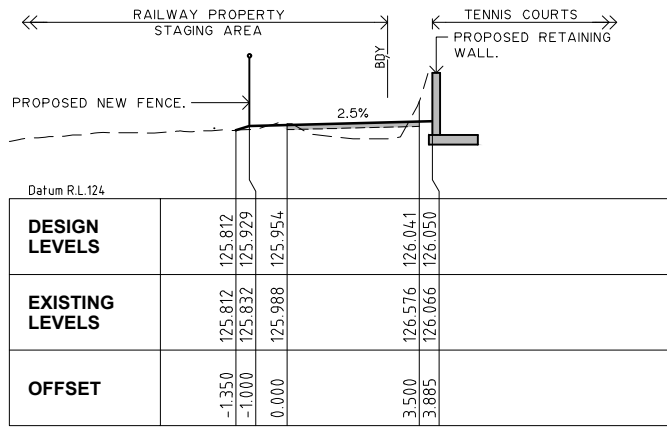


CH 335.000

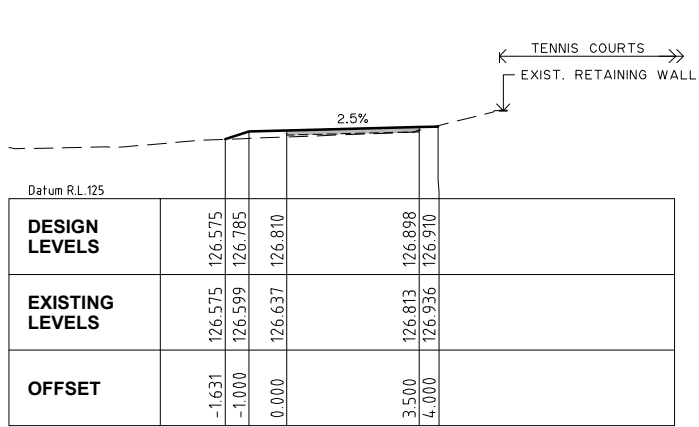


BOLLARD NOTES:

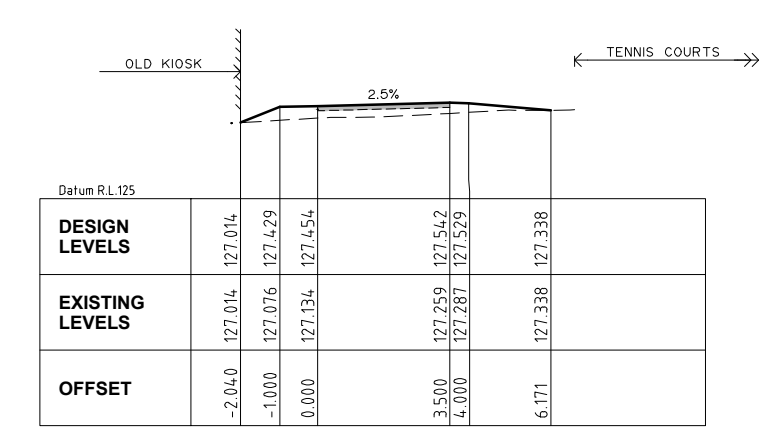
- BOLLARD TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- BOLLARD TO COMPLY WITH AS/NZ3845:1999.
- BOLLARD ARE TO BE SET VERTICALLY & ACCURATELY ALIGNED IN 32MPa CONCRETE FOOTINGS.
- BOLLARD TO BE SURFACE MOUNTED AS PER DETAIL ABOVE.
- REFER TO DETAIL FOR FINISHED COLOUR & MARKING DETAILS.



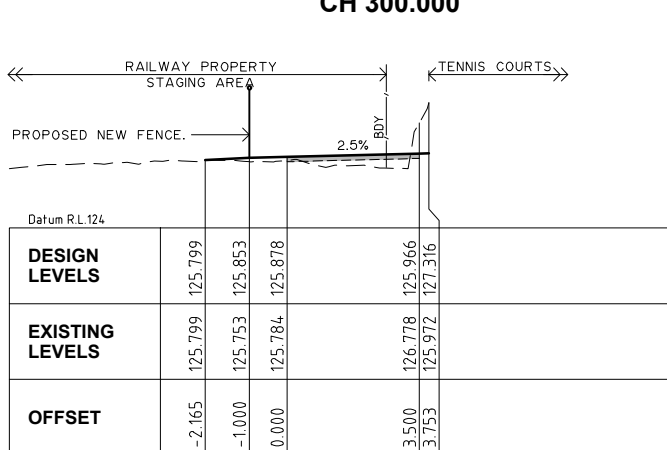
CH 300.000



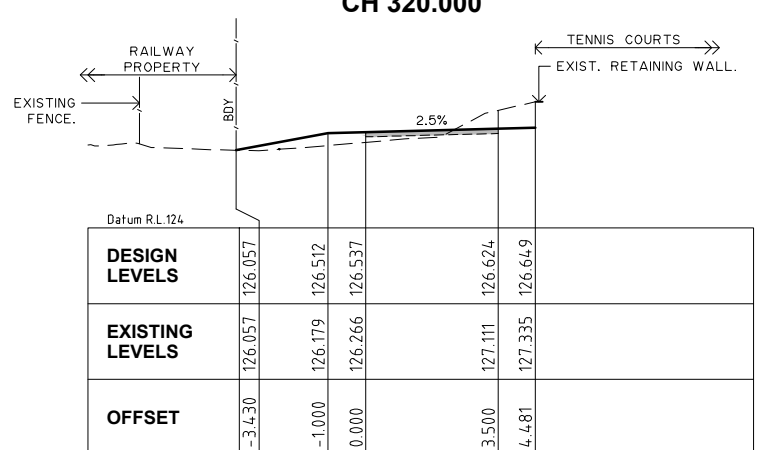
CH 320.000



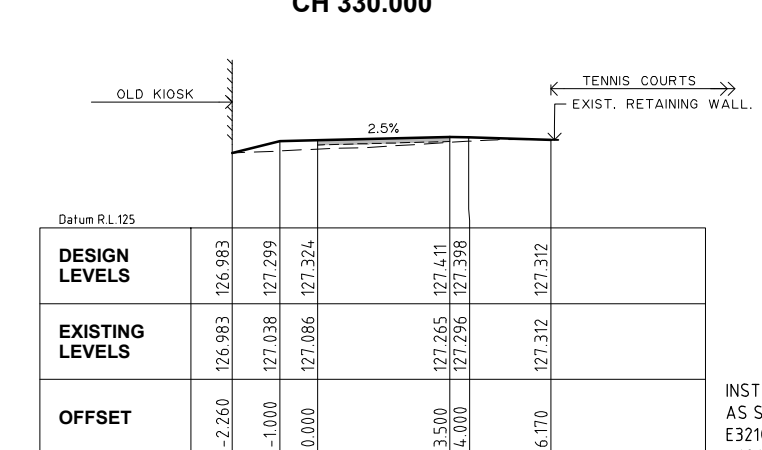
CH 330.000



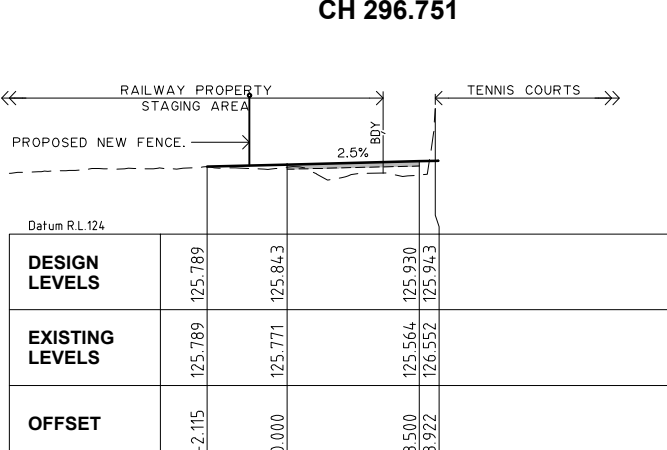
CH 296.751



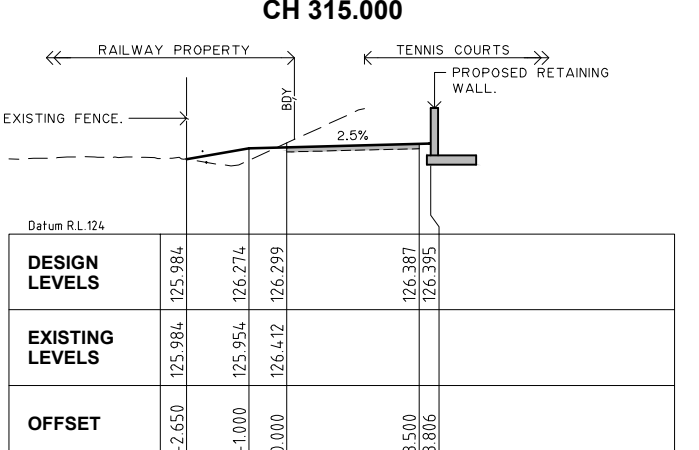
CH 315.000



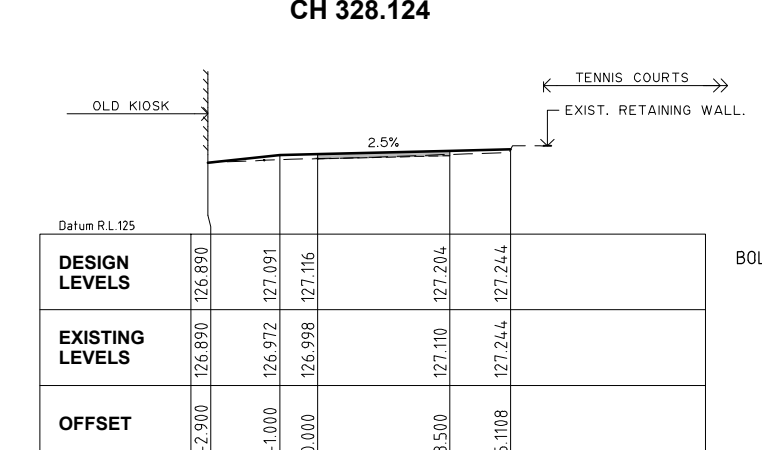
CH 328.124



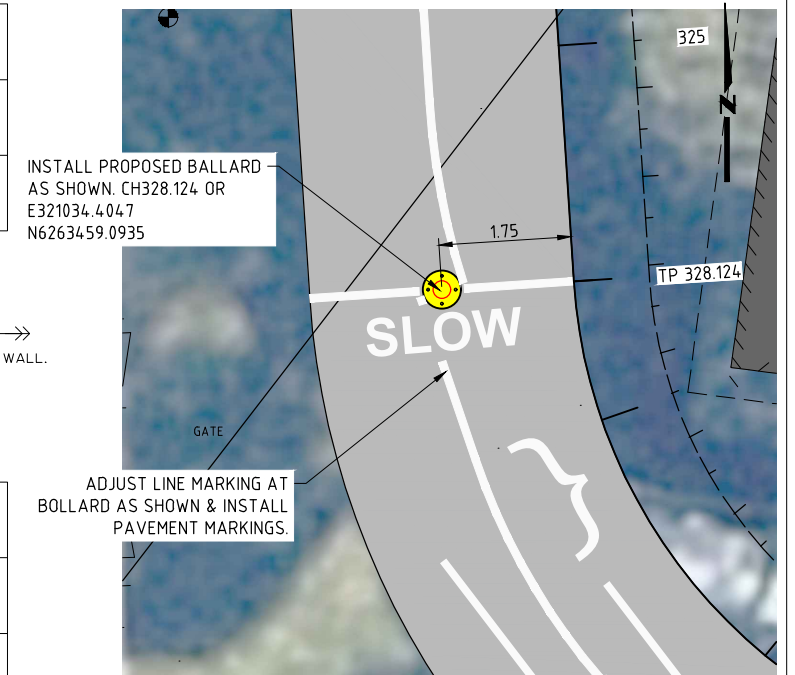
CH 295.000



CH 310.000



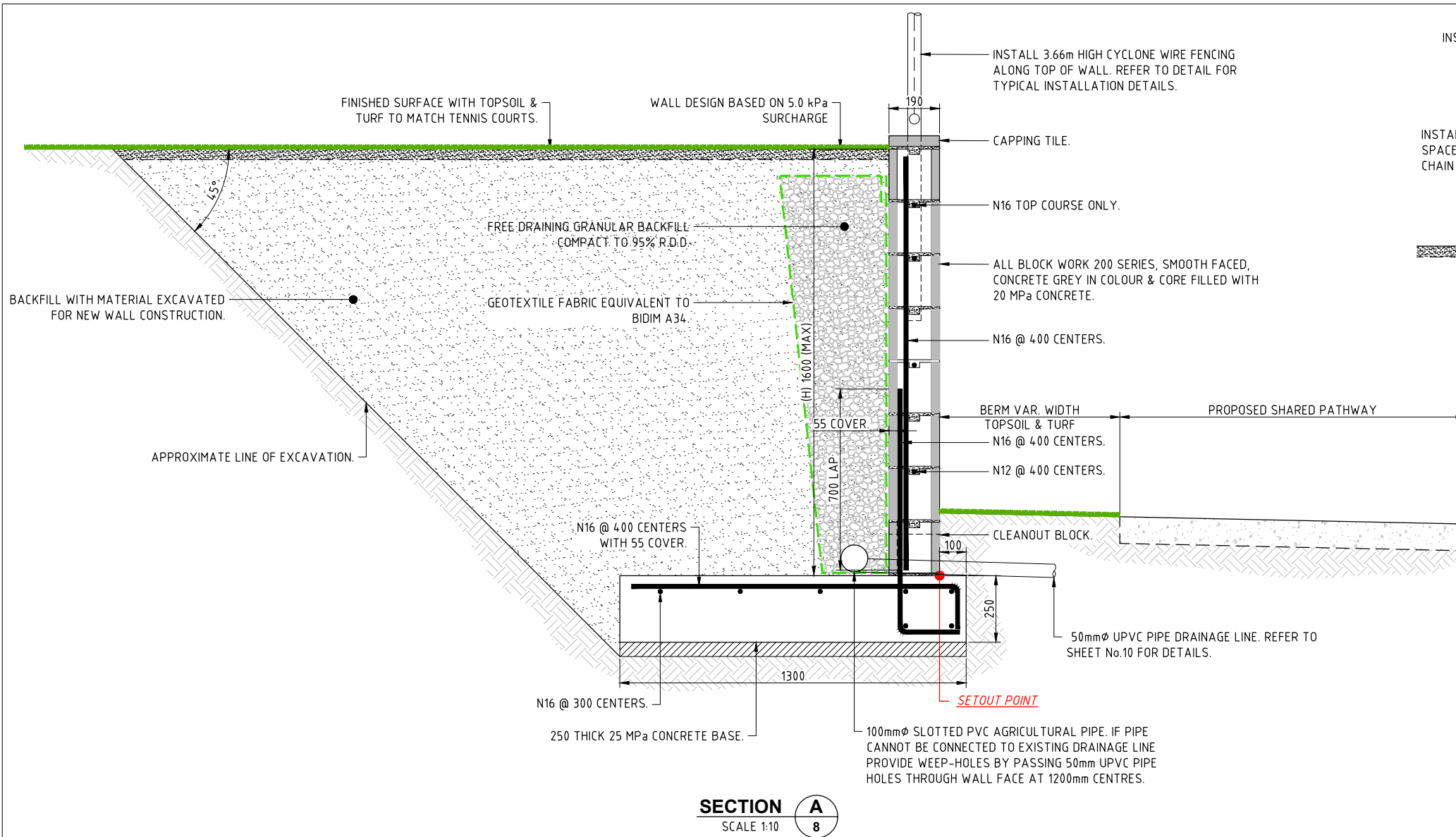
CH 325.000



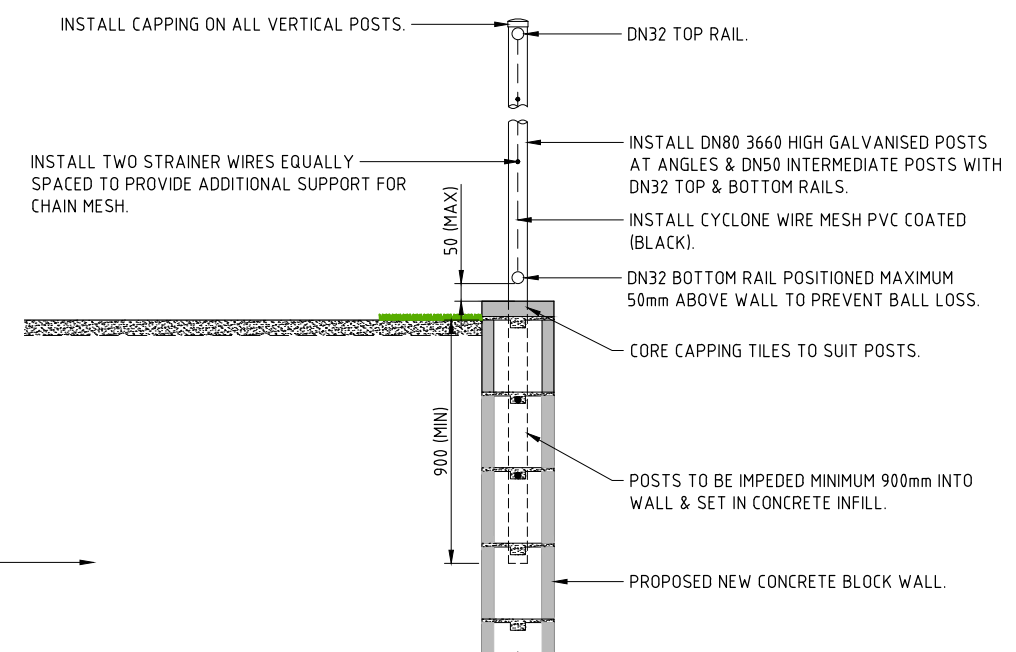
Hornsby Shire Council Design & Construction Branch <small>TELEPHONE: (02) 9547 6666 EMAIL: hsc@hornsby.nsw.gov.au</small>	Designer S. COMISH Signed: _____	Design Checked-Design Team Leader Signed: _____		Bar Scales SCALE 1:100 @ A1	 HORNSBY SHIRE COUNCIL <small>PO BOX 37, HORNSBY NSW 1630</small>	PENNANT HILLS TO EPPING CYCLEWAY - SECTION B - BEECROFT VILLAGE GREEN TO THE CRESCENT (CH220.000 TO CH345.000) CL1 CROSS SECTIONS - CH295.000 TO CH335.000 & BOLLARD DETAILS	Project Number 100345
	Drawn S. COMISH Signed: _____	Surveyor LANDPARTNERS <small>Project Identifier\VCAD File Name H:\V\Pennant Hills to Epping Shared Path_OT_100345\Design\ACAD\Civil Design 2024.dwg</small>	Field Book NA				Level Book NA
Authorised for release - Manager Design & Construction Name: M. DRAKE Signed: _____ Date: _____	TRM Document Number D08952676	Issue 1	Description ISSUED FOR ICONSTRUCTION	Name D. TAMANG	Initial DT	Date _____	HSC Drawing Number 432.8

Design not to be amended without authorisation by Manager Design & Construction

DO NOT SCALE, USE FIGURED DIMENSIONS ONLY



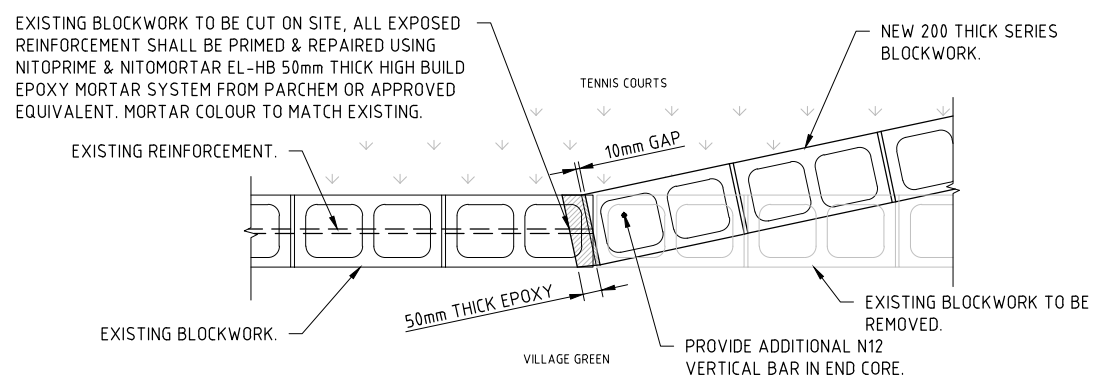
SECTION A
SCALE 1:10



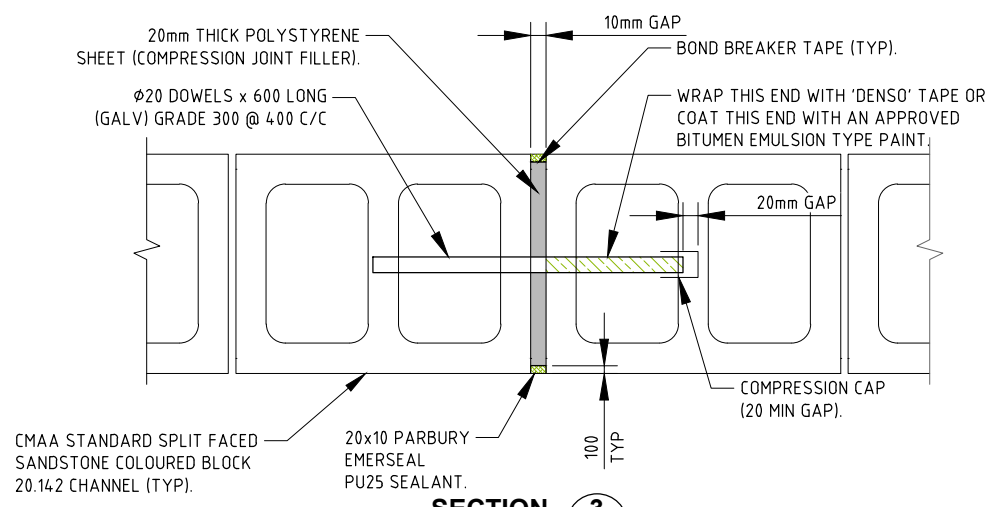
TENNIS COURT FENCING INSTALLATION DETAIL
SCALE 1:10

FENCING NOTES:

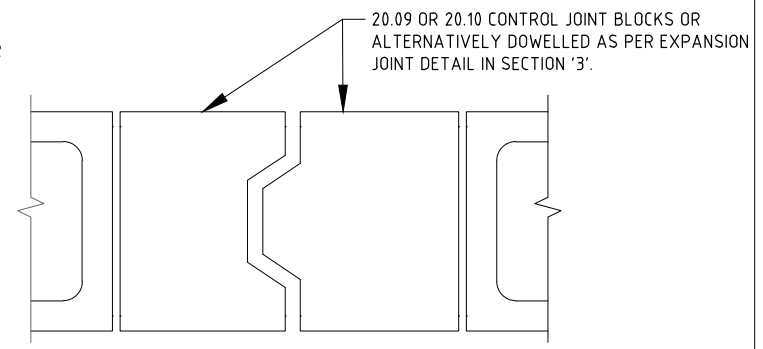
1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS & SPECIFICATIONS OF HORNSBY SHIRE COUNCIL.
2. FENCING SHALL BE GENERALLY 3.66m HIGH TO MATCH EXISTING FENCING.
3. POSTS SHALL BE DN80 INSTALLED VERTICALLY INTO NEW BLOCK WALL WITH MINIMUM EMBEDMENT OF 900mm AT ANGLES WITH DN50 INTERMEDIATE POSTS.
4. DN32 TOP & BOTTOM RAILS SHALL BE INSTALLED.
5. CHAIN WIRE MESH SHALL BE ATTACHED TO TOP & BOTTOM RAILS LACED, WITH THE LACING ATTACHED AT EVERY SECOND DIAMOND EACH TIE SHOULD BE TWICE AROUND THE RAIL & THE PIGTAIL SHOULD BE ON THE OUTSIDE OF THE RAIL & PRESSED FLAT SO THAT IT DOES NOT PRESENT A SCRATCH HAZARD TO COURT USERS & OTHERS.
6. TWO STRAINER WIRES EQUALLY SPACED BETWEEN TOP & BOTTOM RAILS TO PROVIDE ADDITIONAL SUPPORT FOR CHAIN MESH.
7. ALL POSTS & RAILS SHALL BE GALVANISED & PAINTED BLACK.



NEW TO EXISTING JOINT DETAIL
SCALE 1:10

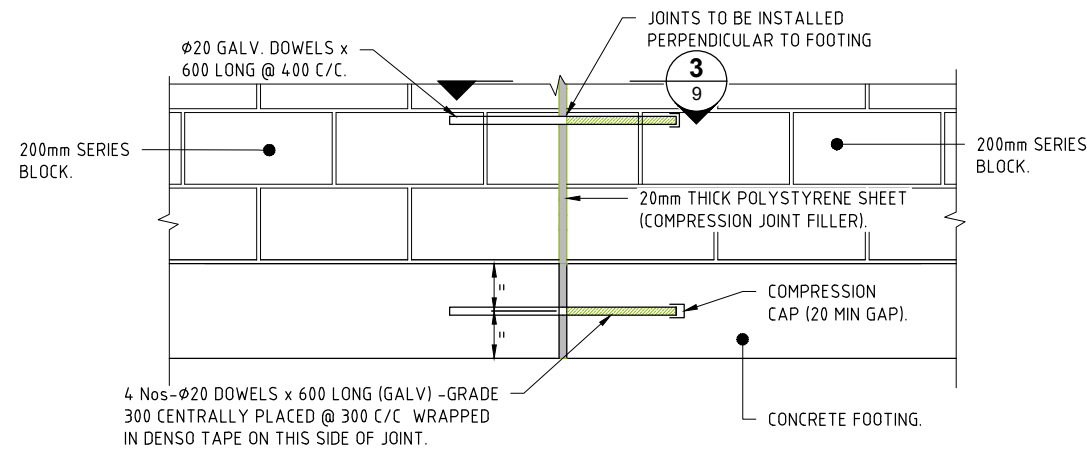


SECTION 3
NTS
EXPANSION JOINT (EJ)



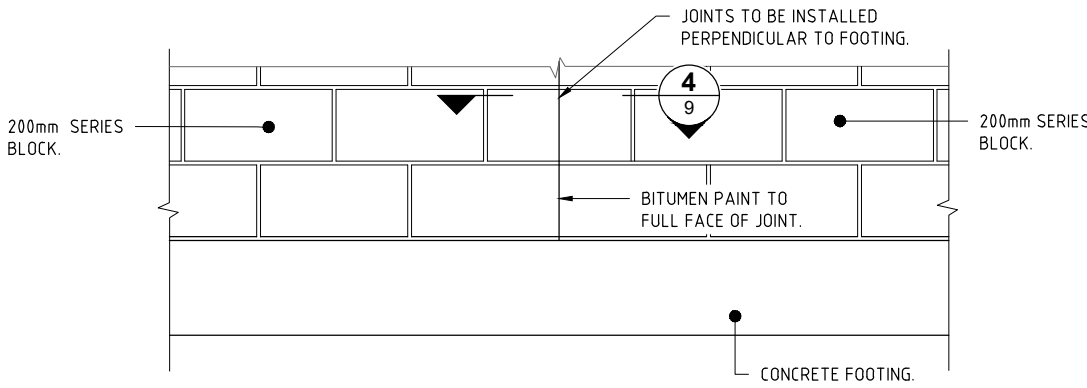
SECTION 4
NTS
CONTRACTION JOINT (EJ)

Hornsby Shire Council Design & Construction Branch TELEPHONE: (02) 9547 6666 EMAIL: hsc@hornsby.nsw.gov.au	Designer S. COMISH Signed:	Design Checked-Design Team Leader Signed:		Bar Scales AS SHOWN	 PO BOX 37, HORNSBY NSW 1630	PENNANT HILLS TO EPPING CYCLEWAY - SECTION B - BEECROFT VILAGE GREEN TO THE CRESCENT (CH220.000 TO CH345.000) RETAINING WALL SECTIONS & JOINTING DETAILS	Project Number 100345		
	Drawn S. COMISH Signed:	NA Field Book	NA Level Book				AHD Datum	Sheet of 9 10	Issue 1
	Surveyor LANDPARTNERS	Project Identifier\CAD File Name H:\Pennant Hills to Epping Shared Path_OT_100345\Design\ACAD\Civil Design 2024.dwg					HSC Drawing Number 432.8		
	Authorised for release - Manager Design & Construction Name: M. DRAKE Signed: Date:	TRM Document Number D08952676	1 Issue				ISSUED FOR CONSTRUCTION Description D. TAMANG Name Initial Date	Design not to be amended without authorisation by Manager Design & Construction DO NOT SCALE, USE FIGURED DIMENSIONS ONLY	



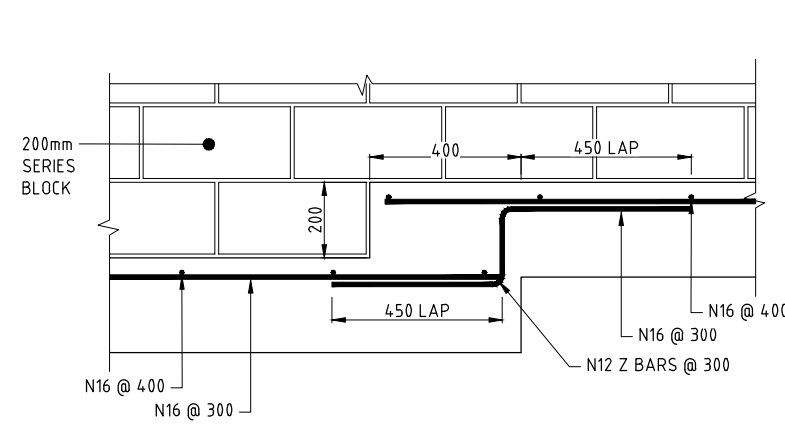
EXPANSION JOINT (EJ) DETAIL

SCALE 1:10



CONTRACTION JOINT (CJ) DETAIL

SCALE 1:10



STEP FOOTING DETAIL

SCALE 1:10

BLOCK TYPE	DESCRIPTION	CODE	FINISH
	200mm CHANNEL	20.42	SMOOTH STONE
	HALF	20.03	SMOOTH STONE
	CAPPING TILE	50.31c	SMOOTH STONE
	CLEANOUT BLOCK	15.45	SMOOTH STONE

STEEL REINFORCEMENT:

- ALL REINFORCEMENT SHALL COMPLY WITH AS4671.
- REINFORCEMENT SHALL NOT HAVE A PROTECTIVE COATING UNLESS NOTED OTHERWISE.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON PLASTIC CHAIRS WITH FLAT BASES AT NOT GREATER THAN 1200 CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
- BAR NOTATION GIVES THE FOLLOWING INFORMATION.

5-N16 @ 150	EF (NF) (FF)
No OFF	EACH FACE / (NEAR FACE) / (FAR FACE)
BAR SIZE	BAR CENTRES
- LAPS NOT SHOWN ON THE DRAWINGS SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF BARS ARE LAPPED IN ANY ONE CROSS SECTION.
- REINFORCEMENT MAY BE DISPLACED SLIGHTLY WHERE NECESSARY TO CLEAR RECESSES.
- UNLESS NOTED OTHERWISE THE MINIMUM DEVELOPMENT LENGTHS & LENGTHS OF LAPS FOR GRADES 500N BAR.

CONCRETE GRADE 40MPa				
BAR SIZE:	N12	N16	N20	N24
a) HORIZONTAL BARS WITH >300mm OF CONCRETE CAST BELOW THE BAR	475	800	1125	1200
b) OTHER BARS	375	625	900	950

- × TOLERANCES ON NOMINAL COVER OF -5mm HAS BEEN ASSUMED FOR CONCRETE ELEMENTS CAST AGAINST FORMWORK OR BLINDING.
- WHERE MORE THAN 50% OF BARS ARE LAPPED IN ANY ONE CROSS SECTION THE LAPS SHOWN IN THE TABLE ABOVE SHALL BE INCREASED BY A MULTIPLE FACTOR OF 1.3.
- REINFORCEMENT SHOWN ON THE DRAWINGS IS REPRESENTED DIAGRAMMATICALLY & NOT NECESSARILY SHOWN IN TRUE PROJECTION.

CONCRETE BLOCK MASONRY WALL:

- ENSURE WORKMANSHIP & MATERIALS CONFORM TO THE CURRENT EDITION OF AS 3700 AND IT'S REFERENCED STANDARDS.
- FULLY BED FACE SHELLS & PERPENDS.
- PROVIDE CLEAN-OUT HOLES/BLOCKS AT BASE OF ALL WALLS & ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FINIS. TIE VERTICAL REINFORCEMENT TO STARTER BARS.
- FILL ALL CORES OF REINFORCED WALLS WITH THOROUGHLY COMPACTED 20MPa GROUT, 10mm MAXIMUM AGG, 250 SLUMP & MINIMUM 300KG/m³ OF TYPE GP ELEMENT, UNO.
- DO NOT CUT CHASES INTO LOAD BEARING BLOCKWORK, OR NON LOAD BEARING BLOCKWORK, WITHOUT WRITTEN APPROVAL FROM PRINCIPAL THROUGH SUPERINTENDENT. ALLOW FOR SERVICES PRIOR TO CONSTRUCTING BLOCKWORK.
- DO NOT USE MORTAR ADMIXTURES WITHOUT WRITTEN APPROVAL.
- PROVIDE 20mm GAP TO TOP OF NON LOAD BEARING WALLS TO ALLOW SEALANT AS SPECIFIED.
- SCHEDULE:

ELEMENT	UNIT STRENGTH	GROUT STRENGTH	MORTAR CEMENT/LIME/SAND
RETAINING WALLS	15MPa	20MPa	M4 1:0.5:3

REINFORCED MASONRY BLOCKWORK NOTES

- MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF:-
AS 3700 MASONRY STRUCTURES
AS/NZS 4455 MASONRY UNITS & SEGMENTAL PAVERS
AS 2701 METHODS OF SAMPLING & TESTING MORTAR FOR MASONRY CONSTRUCTIONS AS 3600 CONCRETE STRUCTURES CODE.
- CONCRETE MASONRY UNITS TO BE f_{uc} = 15MPa TO AS 3700.
- MORTAR MIX (CEMENT : LIME : SAND):-
RETAINING WALLS - 1 : 0.5 : 3
LOAD BEARING WALLS - 1 : 1 : 6
NON LOAD BEARING WALLS - 1 : 2 : 9
ALTERNATIVELY USE EQUIVALENT CEMENT SAND MORTAR WITH PLASTICISER. DO NOT USE MORTAR ADMIXTURES WITHOUT WRITTEN APPROVAL FROM SUPERINTENDENT (SUPERVISING ENGINEER).
- MORTAR COMPRESSIVE STRENGTH TO BE 12 MPa AT 28 DAYS.
- MAXIMUM OF 6 COURSES HEIGHT TO BE PLACED AT ANY ONE TIME.
- PROVIDE CLEAN-OUT BLOCKS TO THE BASE OF ALL REINFORCED CORES.
- ALL MORTAR DROPPINGS TO BE REMOVED FROM BOTTOM OF CAVITY, THROUGH CLEAN-OUT BLOCKS, BEFORE CONCRETING.
- COVER TO REINFORCEMENT REFER TO DETAILS.
- REINFORCEMENT MUST BE POSITIONED ACCURATELY & TIED SECURELY BEFORE PLACING GROUT. VERTICAL BARS, INCLUDING STARTER BARS, SHOULD BE AS CLOSE TO REAR BLOCK FACE OF WALL AS POSSIBLE, CONSISTENT WITH COVER REQUIREMENTS.
- CONSTRUCT VERTICAL CONTROL JOINTS IN WALLS AT EXPANSION & CONSTRUCTION JOINTS IN SLABS, SLAB ENDINGS & DIFFERENT SUPPORT LEVELS, OR AT 6m MAX. CENTRES U.N.O..
- GROUT MIX USED TO FILL CAVITY TO HAVE:-
ULTIMATE CRUSHING STRENGTH (f_c) OF 20 MPa
SLUMP 230mm TO 250mm
MAXIMUM AGGREGATE SIZE OF 10mm.
MINIMUM 300kg/m³ OF TYPE GP CEMENT.
- ALL CORES ARE TO BE WETTED PRIOR TO GROUTING.
- GROUT MIX TO BE THOROUGHLY COMPACTED EITHER BY RODDING OR BY PENCIL VIBRATOR. ALL CORES TO BE FILLED TO A MAXIMUM OF 3m HIGH FREE DROP IN ANY ONE POUR. STOP POUR 50mm BELOW TOP OF BLOCK TO PROVIDE KEY FOR FOLLOWING POUR.
- RETAINING WALL DRAINAGE TO BE 100mm DIA. SLOTTED PVC PIPE ENCLOSED IN AN APPROVED FILTER SOCK WITH 150mm THICK, 20mm GRAVEL U.N.O. GRADE DRAINAGE AT 1 IN 200 MIN. TO SUITABLE OUTLET. IF NOT POSSIBLE WEEP-HOLES MAY BE PROVIDED.
- BACKFILL RETAINING WALL, ON SUPERINTENDENT'S APPROVAL, WITH APPROVED CLEAN GRANULAR MATERIAL, FREE FROM CLAY OR OTHER ORGANIC MATTER. COMPACT BACKFILL IN LAYERS NOT EXCEEDING 200mm TO 95% STANDARD COMPACTION (AS 1289). DO NOT COMPACT UNTIL 7 DAYS AFTER PLACEMENT OF THE FILLING CONCRETE.
- BLOCK WALL TO BE PAINTED IN SIMILAR COLOUR TO EXISTING THEN COATED WITH 'SILASKIN' ANTI-GRAFFITI PRODUCT (OR EQUIVALENT) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**Hornsby Shire Council
Design & Construction
Branch**

TELEPHONE: (02) 9547 6666
EMAIL: hsc@hornsby.nsw.gov.au
Authorised for release - Manager Design & Construction
Name: M. DRAKE

Designer S. COMISH	Design Checked-Design Team Leader		
Drawn S. COMISH	Signed:		
Surveyor LANDPARTNERS	NA	NA	AHD
Field Book	Level Book	Datum	
Project Identifier\ACAD File Name H:\Pennant Hills to Epping Shared Path_OT_100345\Design\ACAD\Civil Design 2024.dwg			
TRIM Document Number D08952676	Issue	Description	Name Initial Date

1	ISSUED FOR CONSTRUCTION	D. TAMANG		
Design not to be amended without authorisation by Manager Design & Construction				

Bar Scales
AS SHOWN
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY



**PENNANT HILLS TO EPPING CYCLEWAY -
SECTION B - BEECROFT VILLAGE GREEN TO
THE CRESCENT (CH220.000 TO CH345.000)**

RETAINING WALL JOINT DETAILS & NOTES

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