

MERRIFIELD DEVELOPMENT

STAGE 18

DONNYBROOK ROAD, MICKLEHAM

HUME CITY COUNCIL

FOR

merrifield



CIVIL DRAWINGS
ROAD AND DRAINAGE

DCE REF : 11738RD

AS CONSTRUCTED



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Drawing File: \\reservelg-adda\designadda\17700\1738-merrifield - precinct 1 - stage 18\Acad\RD\11738D01.dwg - 11738D01
Date/Time: Wed Aug 10, 2016 - 3:49pm --byron.shade--

HUME CITY COUNCIL GENERAL NOTES:

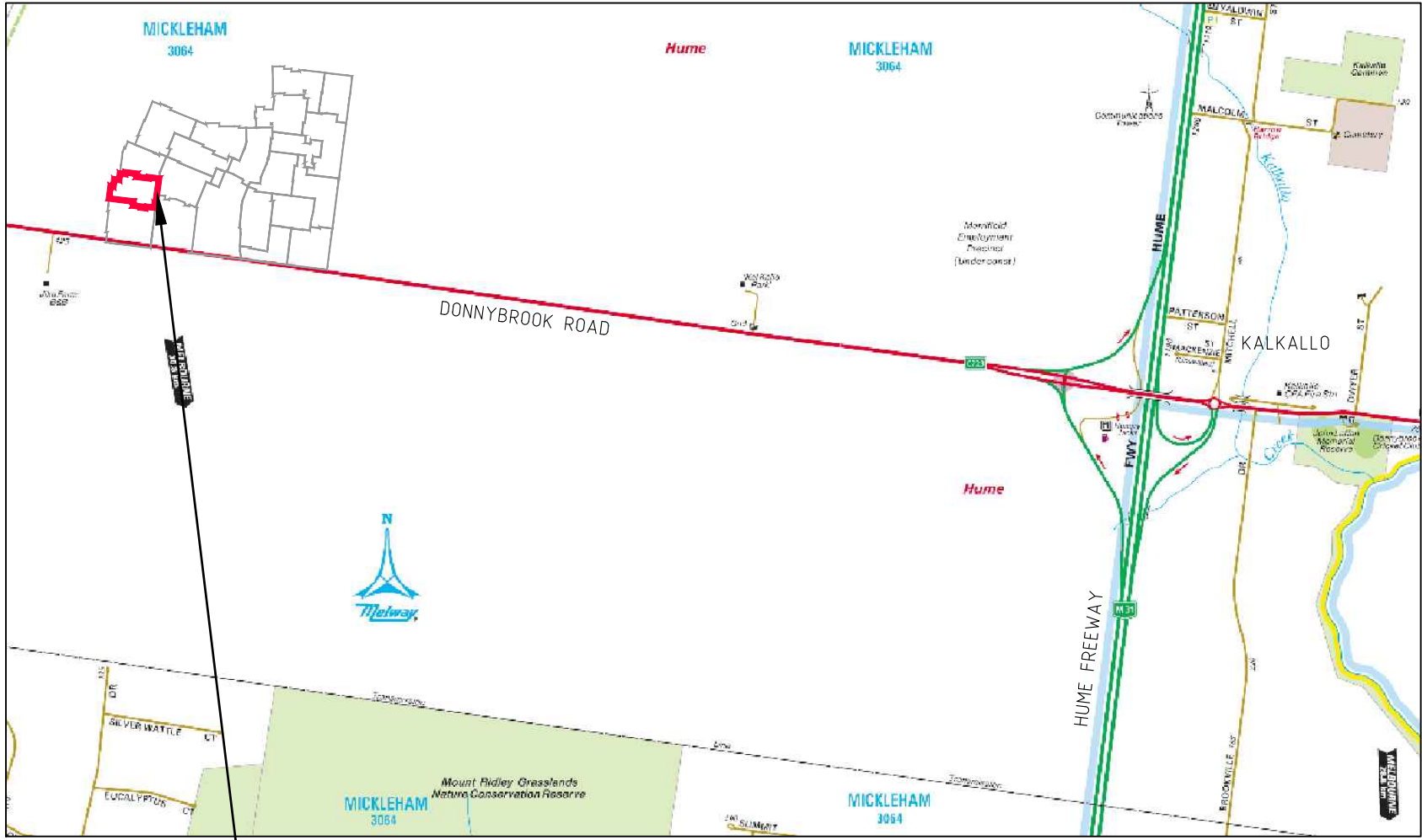
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MPA AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE SUPERINTENDENT, THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. ALL WORKS TO BE IN ACCORDANCE WITH AS4000 AMENDED GENERAL CONDITIONS OF CONTRACT AND THE ROAD & DRAINAGE SPECIFICATION.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRE-COMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRE-COMMENCEMENT MEETING.
- PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
(A) SOURCE OF QUARRY MATERIAL.
(B) N.A.T.A APPROVED TEST RESULTS FOR THE F.C.R. THAT IS TO BE USED.
(C) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THE NEW TEST RESULTS SHALL BE PROVIDED.
- PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OHS REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH.
- ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENTAL PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD FOR THE WORKS.
- THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE HUME CITY COUNCIL SPECIFICATIONS IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
- ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
- THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE MPA MANUAL AND HUME CITY COUNCIL SPECIFICATIONS.
- FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED, AND TOPSOIL REPLACED TO OBTAIN THE FINAL FILL LEVELS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AS1289.5.1.1-2003.
- FILLING TO COMPLY WITH AS3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
- NO TREES OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCIL SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.
- BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5M DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURE/FENCES AND FOR ANY RETAINING WALLS OVER 1.0M IN HEIGHT.
- ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
- ALL DISTURBED AREAS, ie, NATURESTRIPS, BATTERS, ALLOTMENTS & RESERVES, ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100mm LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS) AND SOWN WITH GRASS SEED. SEED IS TO BE A DROUGHT TOLERANT COUCH/FESCUE MIX UNLESS OTHERWISE DETAILED. BLEND IS GENERALLY AS FOLLOWS:
90% DROUGHT TOLERANT PERENNIAL RYE
10% KIKUYU

NOTE: GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD OR UNLESS OTHERWISE AGREED.
- FOOTPATHS TO BE OFFSET 50mm FROM THE TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.

- ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450MM LONG Y20 DOWEL BARS @ 600 CENTERS, UNLESS OTHERWISE SPECIFIED.
- ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
- ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20MM 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH AS1289.5.2.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITH 750MM OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC OR RIGID FRC PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
- WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
- ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- AT THE COMPLETION OF ALL WORKS, ALL RUBBISH DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 2 F.C.R COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH AS 1289.5.2.1-2003. ALL DRAINS, SEWER, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 F.C.R COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH AS 1289.5.2.1-2003.
- PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150MM LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH AS1289.5.1.1-2003.
- ALL EXISTING ASSETS AFFECTED BY THE WORKS; EG SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL FIRE HYDRANTS ARE TO ME MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A, M.F.E.S.B & N.R.E). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.
- AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING S0282.
- ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH AS1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING S0408.
- ALL LINEMARKING PAINT SHALL BE LONG LIFE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
- ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND COMPLY WITH THE REQUIREMENTS OF AS1743-2001.
- HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC SHALL BE BACKFILLED WITH 10mm MINUS F.C.R TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
- 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.0m MINIMUM FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN.
- BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECESSARY. RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL. RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES, FIRING AND MISFIRE PROCEDURES AND CONTRACTORS AND CONSULTANT CONTACT NAMES AND NUMBERS. ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN AS1287.2-1993. ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM AS2187.2-1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED TO COUNCIL FOR EACH BLAST. BLASTING IS TO BE RESTRICTED TO BETWEEN 9:00AM AND 3:30PM. BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS. BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.

GENERAL NOTES:

- ALL BLOCKS ARE TO SURFACE GRADE WITH A MINIMUM FALL OF 1 IN 150 ALONG THE LOW SIDE BOUNDARY TO THE POINT OF DISCHARGE.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- ALL CHAINAGES REFER TO ROAD RESERVE DESIGN LINES EXCEPT:
- IN COURT HEADS WHERE CHAINAGES REFER TO LIP OF KERB
- KERB RETURNS WHERE CHAINAGES REFER TO LIP OF KERB.
- GENERALLY B2 KERB AND CHANNEL IS TO BE USED THROUGHOUT THE SUBDIVISION, WHERE OTHER KERB TYPES ARE REQUIRED THEY ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
- LIP OF ALL KERB RADI ARE 8.60m UNLESS OTHERWISE SHOWN.
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
- TBMS TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBMS THEREAFTER.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES.
- THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
- ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- VEHICULAR CROSSINGS OF THE TYPE INDICATED ARE TO BE OFFSET 1.5m FROM THE LOT BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. DRIVEWAY GRADES TO BE 1 IN 6 MAX.
- PROVIDE LAYBACKS IN KERB TO ALL PRAM CROSSINGS IN ACCORDANCE WITH COUNCIL STANDARDS.
- ASPHALT FILLETS/RAMPS ARE TO BE PROVIDED ON THE BASE COURSE ASPHALT TO REMOVE TRIPS AT ALL PEDESTRIAN CROSSING LOCATIONS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
- ALL EASEMENTS ARE 2.0m OR 3.0m WIDE DRAINAGE AND SEWERAGE EASEMENTS UNLESS OTHERWISE SHOWN.
- CENTRELINES OF ALL SEWERS ARE OFFSET 1.2m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
- WHERE CURVED PIPES ARE SHOWN ON THE DETAIL PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. ALL DRAINS BEHIND KERBS ARE TO BE LAID AT THE OFFSET SPECIFIED IN THE COUNCIL SPECIFICATION. CURVED PIPES OF DIAMETER LESS THAN 600mm ON LARGE RADIUS CURVES ARE APPROVED BY COUNCIL SUBJECT TO COMPLIANCE WITH MANUFACTURER'S SPECIFICATION.
- ALL SIDE ENTRY PITS EXCEPT THOSE AT LOW POINTS ARE TO HAVE FLUTES AS SPECIFIED IN THE COUNCIL STANDARD DRAWINGS.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND PARKING BAYS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPINGS IS 1.0m. CONDUITS NOT TO BE LOCATED WITHIN 4.0m OF ALLOTMENT BOUNDARY, UNLESS OTHERWISE SHOWN.
- WATER TAPPINGS FOR LOTS SITUATED ON THE SAME SIDE AS THE WATERMAIN ARE TO BE LOCATED AT THE CENTRE OF THE LOT. THE KERB IS TO BE MARKED "W" WITH AN ARROW POINTING TO THE TAPPING.
- GAS TO BE 50mm DIA. CLASS 12 P.V.C. & WATER CONDUITS TO BE 100 DIA. CLASS 12 P.V.C. SINGLE CONDUIT CONTAINING BOTH DW & NDW SERVICES LAID IN ACCORDANCE WITH WSA 03-2002 DUAL WATER SUPPLY SYSTEM STANDARD DRAWING WAT-1806-V
- ELECTRICITY CONDUITS ARE TO BE LAID WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS :
UNDER ROADS - 0.90m
ELSEWHERE - 0.60m
- TACTILE GROUND SURFACE INDICATORS (TGSI'S) TO BE INSTALLED. TGSI'S ARE TO COMPLY WITH AS1428.4
- CROSSOVERS TO COMPLY WITH WYNDHAM CITY COUNCIL STANDARD DRAWING SD4-1 (EXCLUDING TABLE 1).
- STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES WHERE POSSIBLE.



LOCALITY PLAN

SITE OF WORKS MELWAY REF MAP: 366 D3,E4 NTS

DRAWING INDEX

SHEET NO.	DRAWING NO.	DESCRIPTION
01	11738TD01	LOCALITY PLAN, INDEX AND NOTES
02	11738TD02	TYPICAL SECTIONS AND DETAILS
03	11738SP01	STAGING PLAN
04	11738DP01	DETAIL PLAN
05	11738SOP01	SET OUT DETAILS
06-08	11738ID01-03	INTERSECTION DETAILS - SHEETS 01 TO 03
09-11	11738LS01-03	LONGITUDINAL SECTIONS - SHEETS 01 TO 03
12-16	11738XS01-05	CROSS SECTIONS - SHEETS 01 TO 05
17	117380ED01	OPEN EARTH DRAIN PLAN
18-20	11738DR01-03	DRAINAGE LONGITUDINAL SECTIONS - SHEETS 01 TO 03
21	11738DR04	DRAINAGE PIT SCHEDULE AND PIT DETAILS
22	11738POS01	PLAN OF SUBDIVISION
23	11738FP01	FILL PLAN
24	11738EF01	EXISTING FEATURES PLAN

				Drawn M.CAPALDO Date 03/09/15 AN 1451045 Designed K.PAGE Date 10/07/15 AN 1511051 Verified B.GORDON Date 09/09/15 AN 162468 Audited T.OBOUHOFF Date 31/01/16 AN 912839 Approved T.LIAKOPOULOS Date 03/02/16 AN 885120
1	AS CONSTRUCTED	09/08/16	TL	
0	CONSTRUCTION ISSUE	03/02/16	TL	
REV	AMENDMENTS	DATE	APP'D	

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Coords: MGA
Levels: AHD

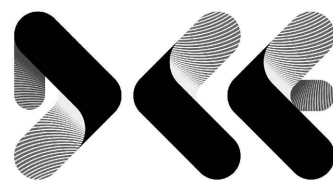


Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
LOCALITY PLAN, INDEX AND NOTES

Drawing No. 11738TD01 Rev 1
Sheet No. 01 AS CONSTRUCTED

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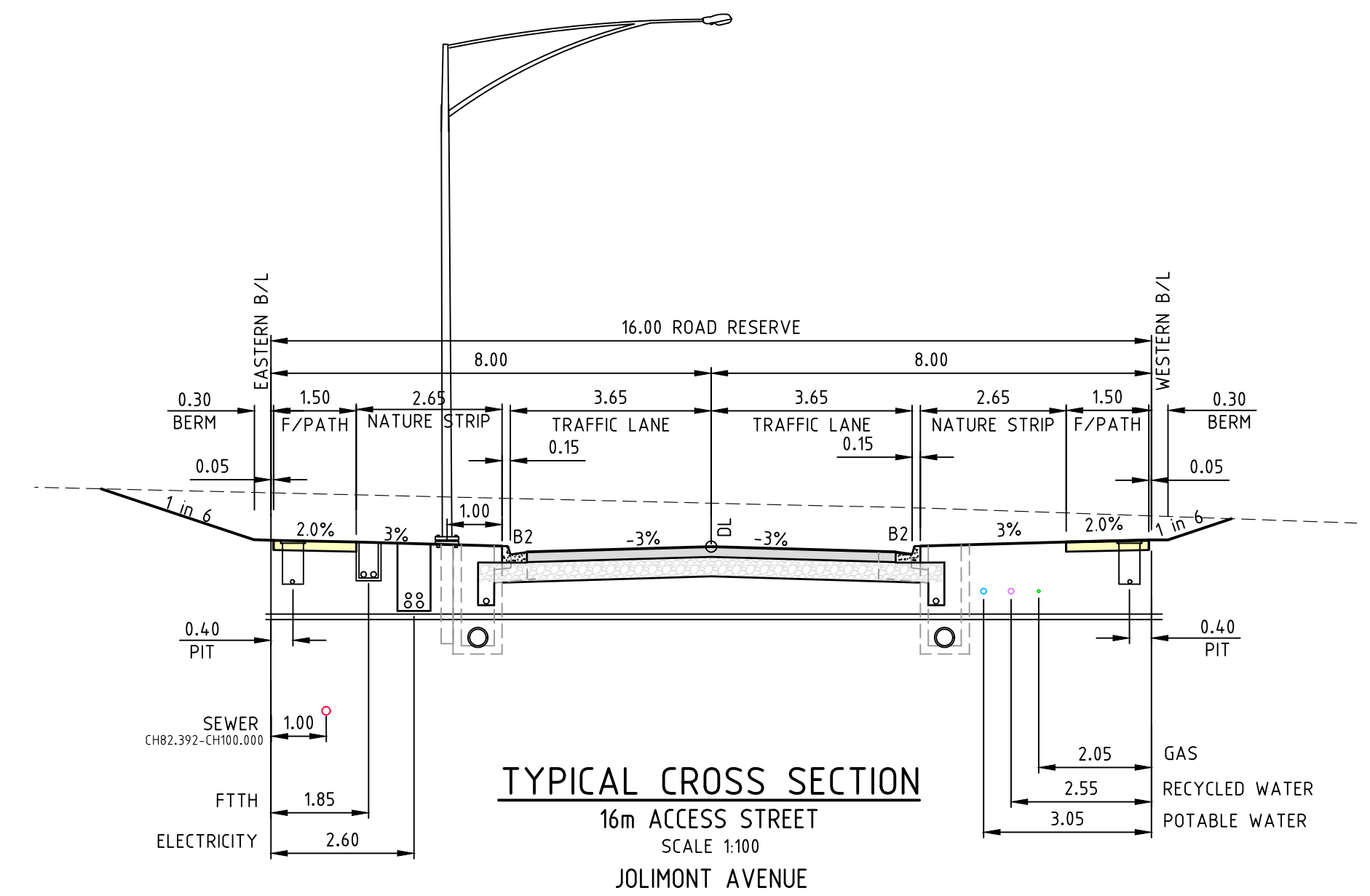
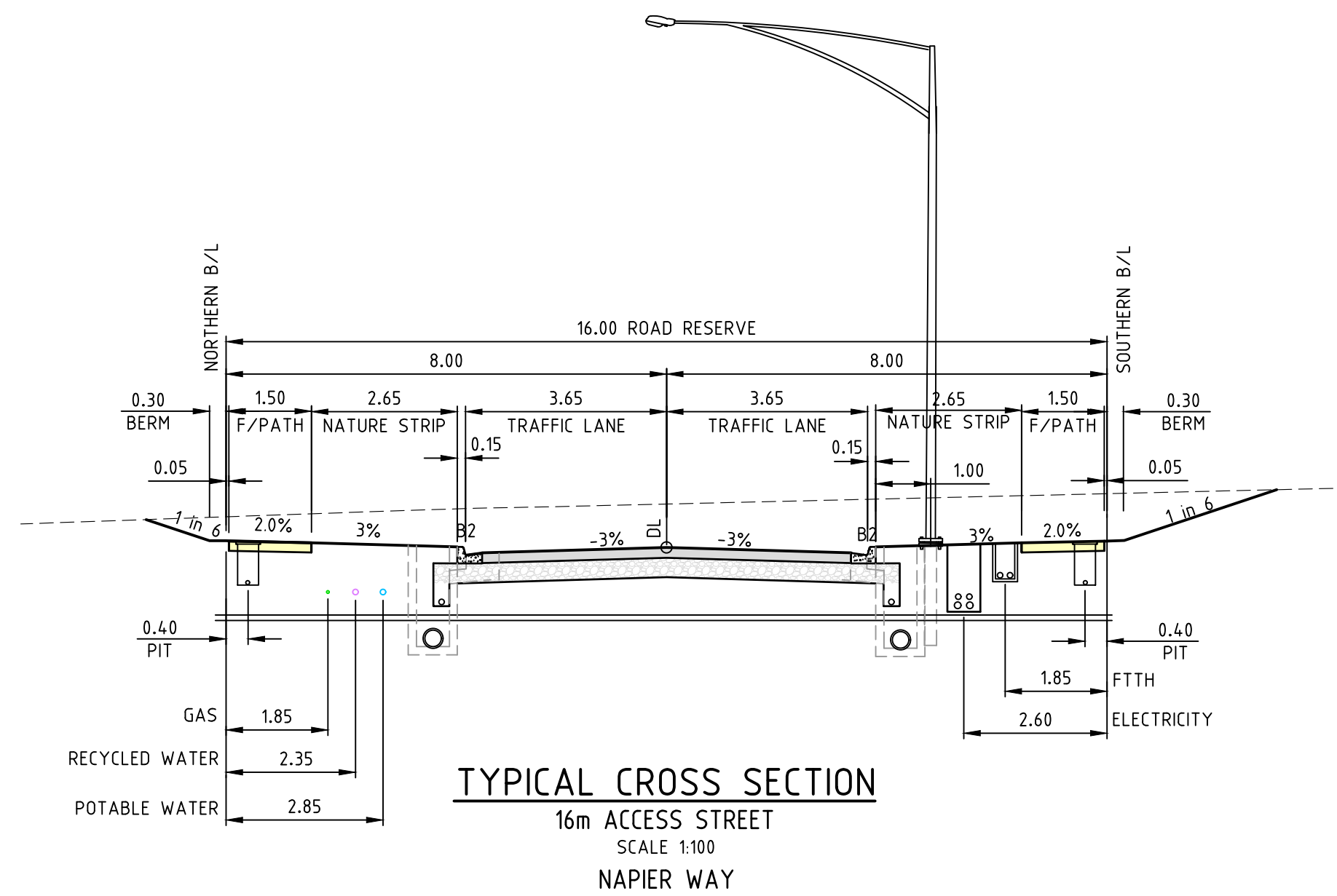
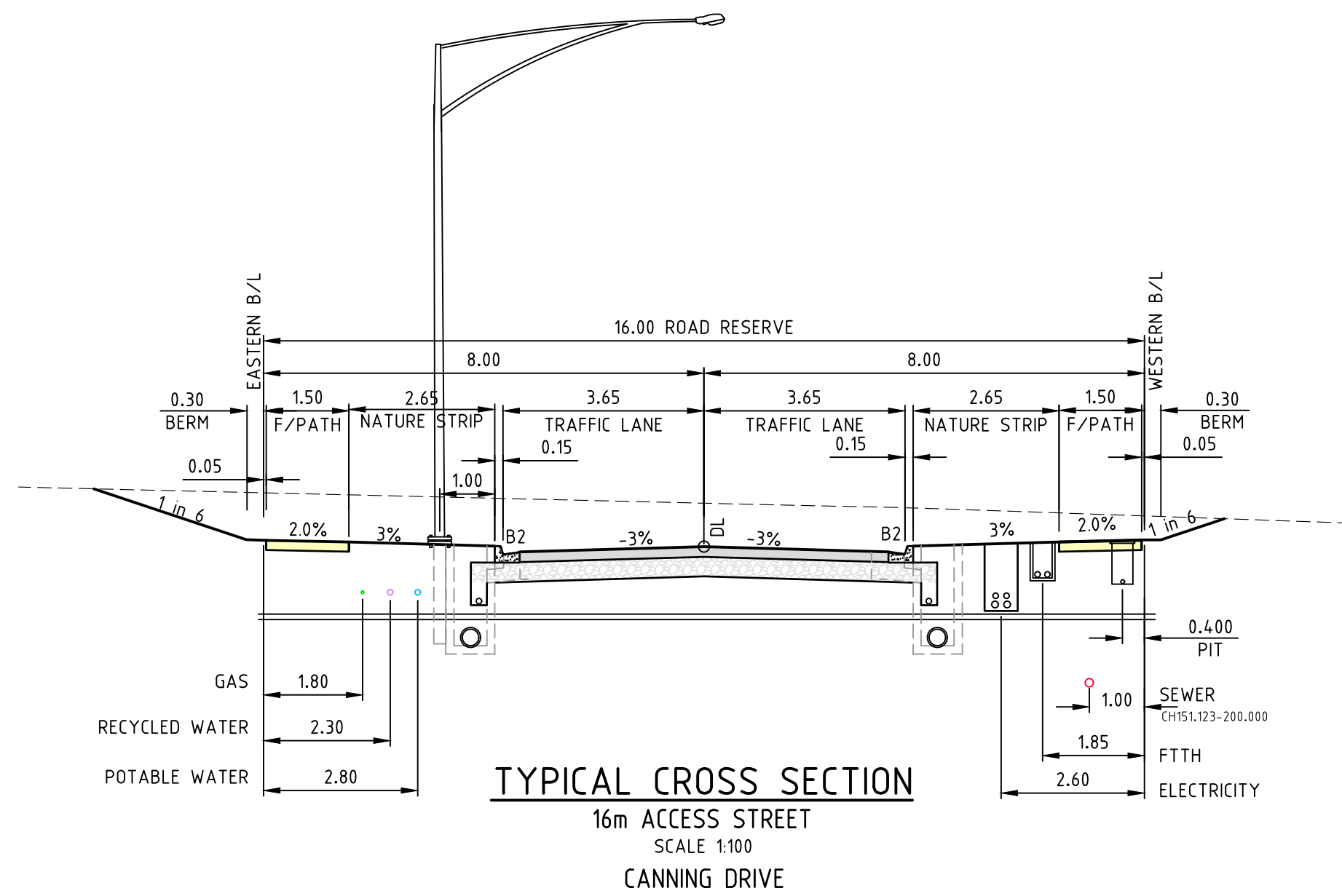


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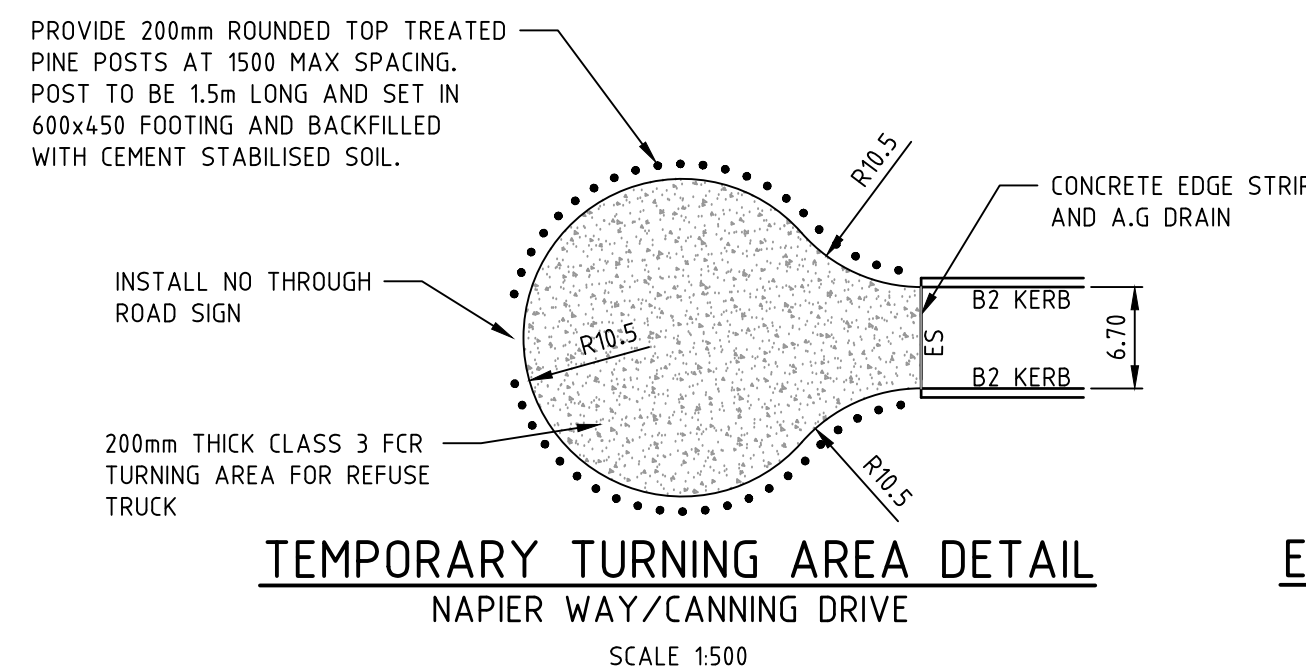
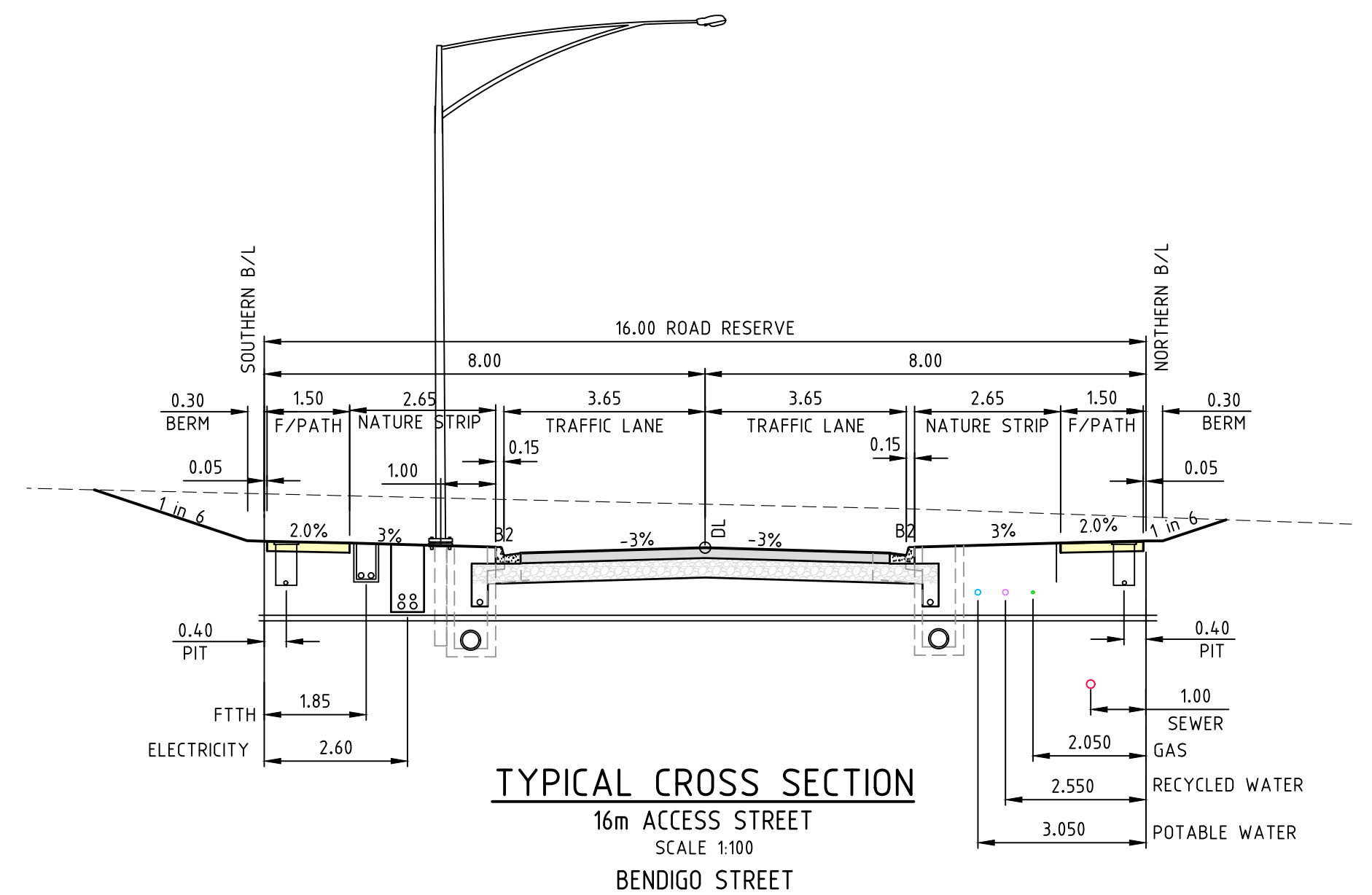
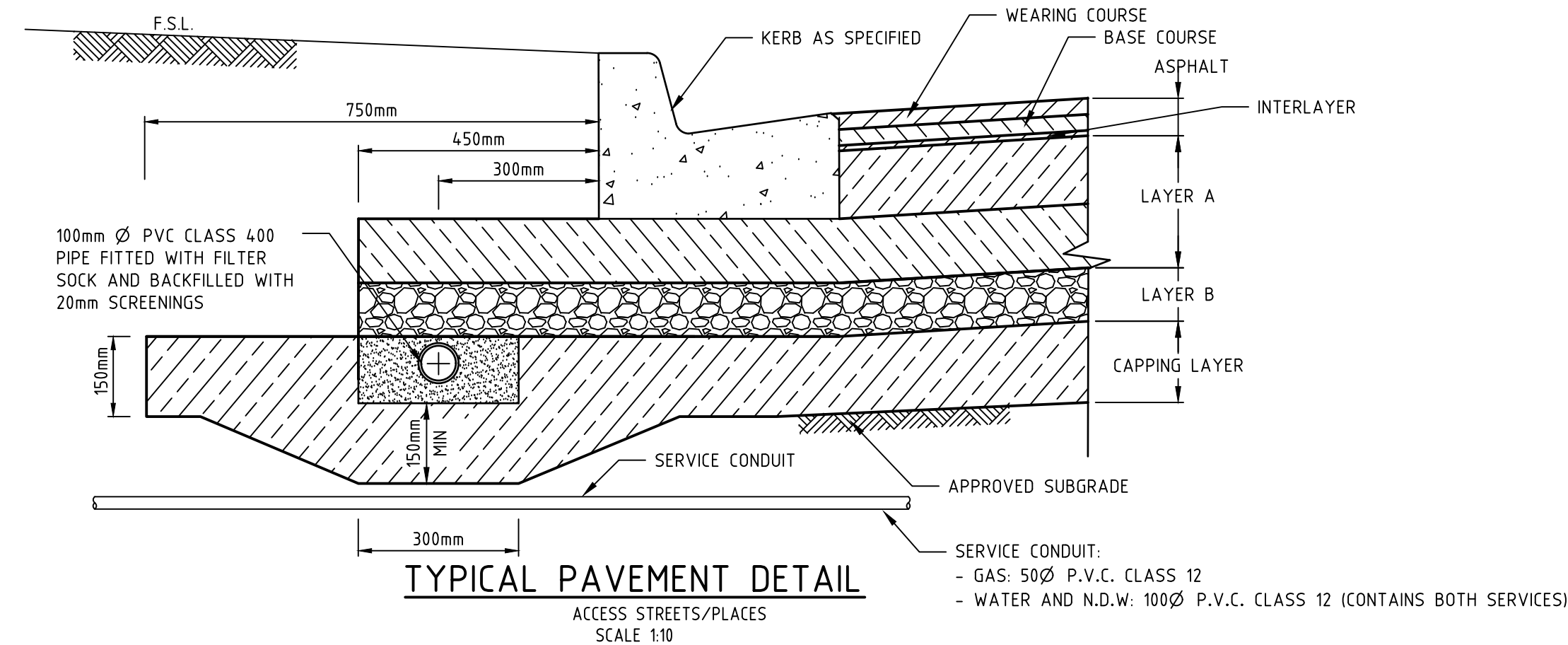
TYPICAL CROSS SECTION NOTES:
1. NATURE STRIPS, VERGES AND BATTERS TO BE TOP-SOILED WITH MIN. 75mm DEPTH LOAM AND SOWN WITH SEED.
2. CONCRETE PATH TO BE 125mm THICK WITH 50mm COMPACTED CRUSH ROCK BEDDING AS PER G.A.A. STD. DRG. FIGURE 006.

PAVEMENT DETAILS

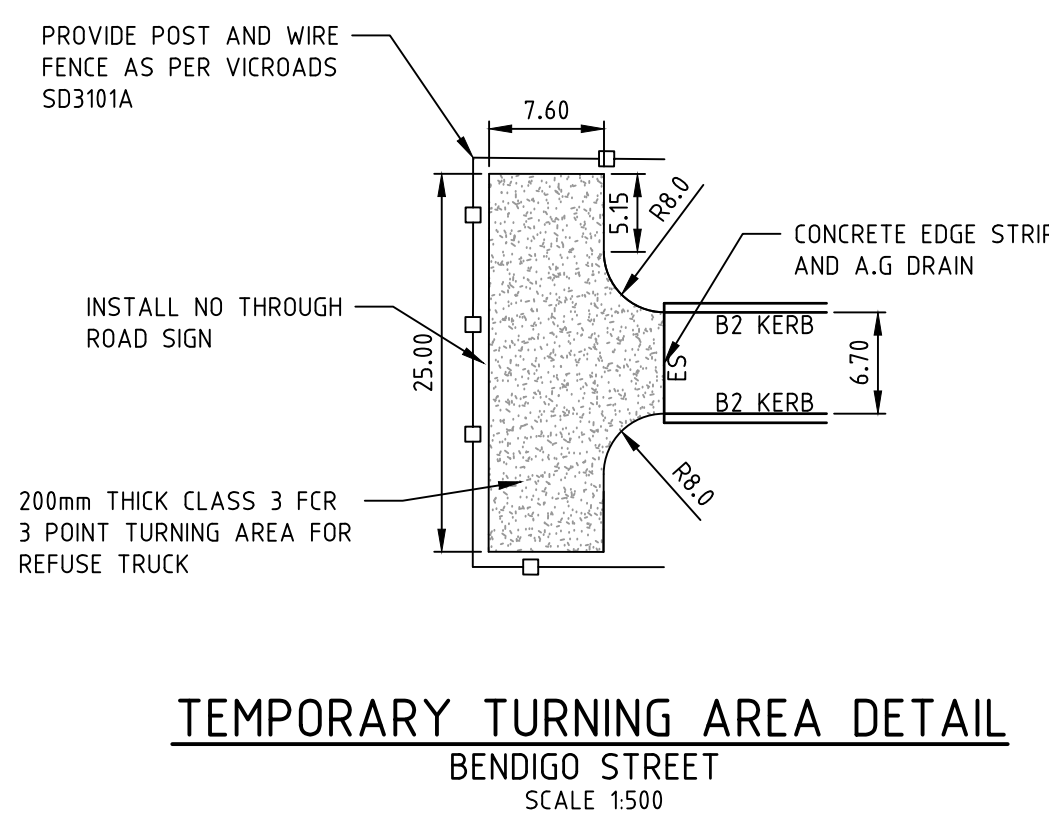
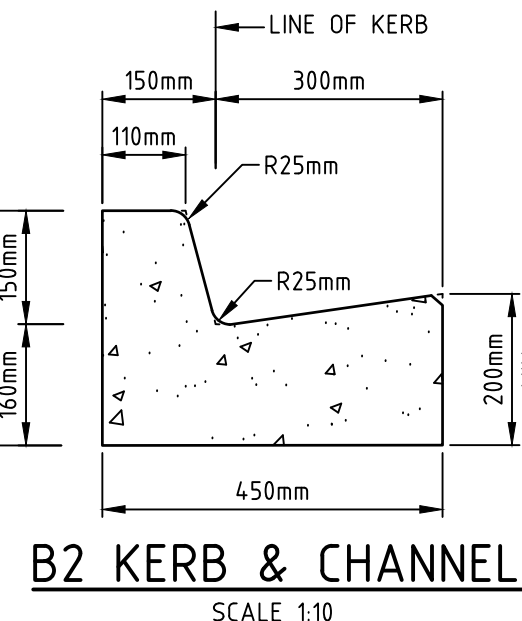
ACCESS STREETS / PLACES CANNING DRIVE, NAPIER WAY, BENDIGO STREET AND JOLIMONT AVENUE	
ASPHALT	WEARING COURSE 30mm SIZE 10mm TYPE N ASPHALT BASE COURSE 30mm SIZE 10mm TYPE N ASPHALT INTERLAYER 10mm SAMI TREATMENT PRIME UNDERLAID WITH BITUMINOUS PRIME SPRAY
LAYER A	BASE COURSE 130mm SIZE 20mm CLASS 2 CRUSHED ROCK UPPER SUBBASE 120mm SIZE 20 CLASS 3 CRUSHED ROCK
LAYER B	LOWER SUBBASE 100mm SIZE 20 CLASS 4 CRUSHED ROCK
CAPPING LAYER	CAPPING 150mm REFER SECTION 7.4 OF REPORT
DEPTH TOTAL	570mm
SUBGRADE	SUBGRADE CBR ≥ 2%

REFER TO GOLDER ASSOCIATE'S GEOTECHNICAL REPORT NUMBER 127612078-001-R-Rev0 DATED 18/01/2013

NOTE: SHOULD THE SUBGRADE BE SOFT OR ROCKY MATERIAL, SUBGRADE IMPROVEMENT IS REQUIRED WHERE THE SUBGRADE IS TO BE FURTHER EXCAVATED AND THE DEPTH TO BE AT THE DISCRETION OF THE CONTRACTOR AND BROUGHT BACK UP TO SUBGRADE LEVEL IN A UNIFORM LAYER FOR THE COUNCIL SUPERVISOR TO INSPECT AS A HOLD POINT.



EDGE STRIP
SCALE 1:10



AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
2	AS CONSTRUCTED	09/08/16	TL
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merrifield
MAB gpc
Coords: MGA
Levels: AHD

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
TYPICAL SECTIONS AND DETAILS

Drawing No. 11738TD02 Rev 2
Sheet No. 02 **AS CONSTRUCTED**

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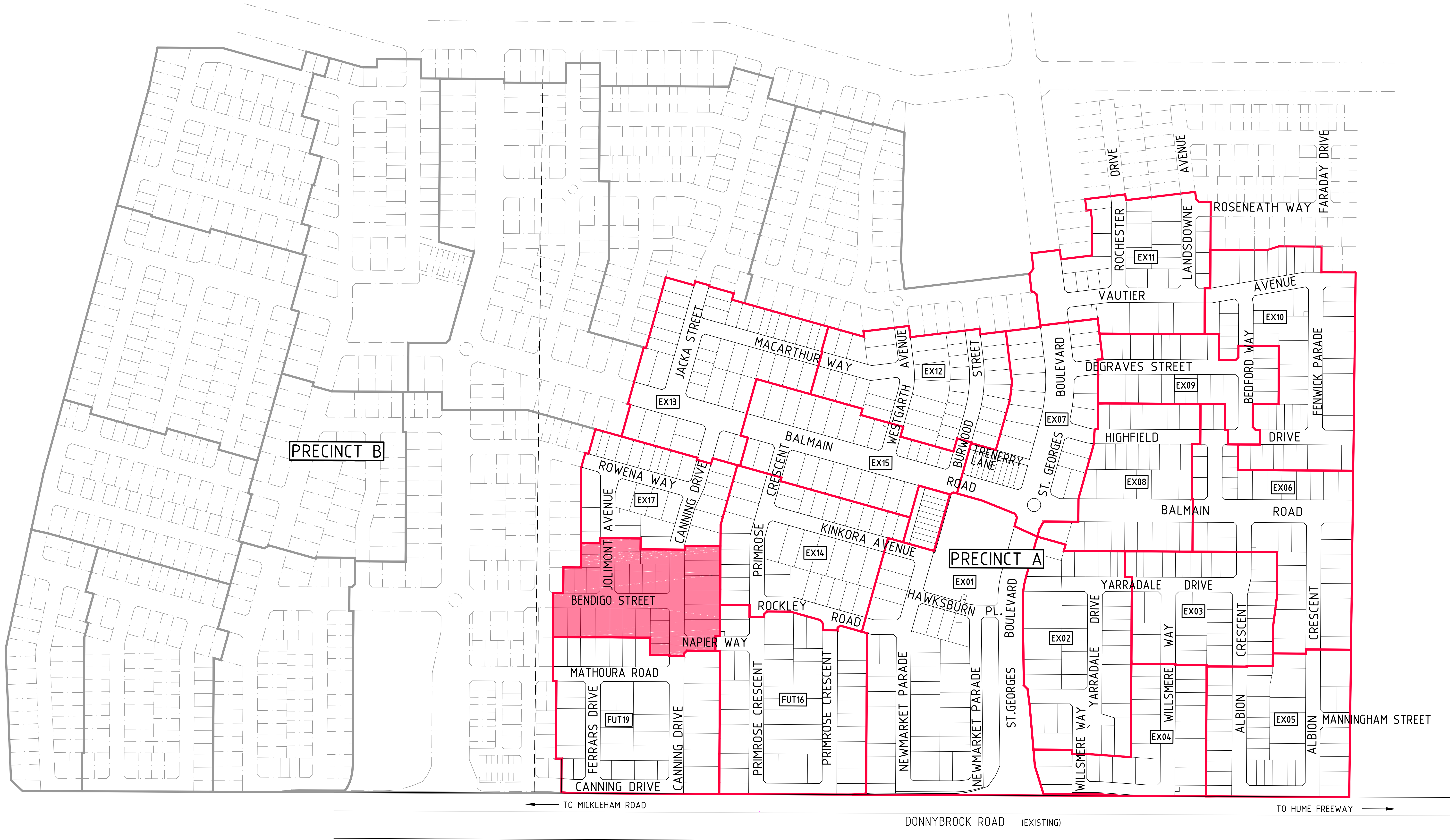
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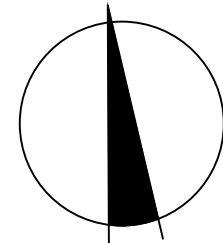
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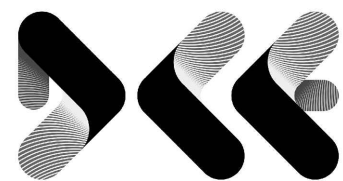


merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:2000 0m 20m 40m 80m 120m
Scale @ A1/A3 1:2000/1:4000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
STAGING PLAN

Drawing No. 11738SP01 Rev 1
Sheet No. 03 AS CONSTRUCTED
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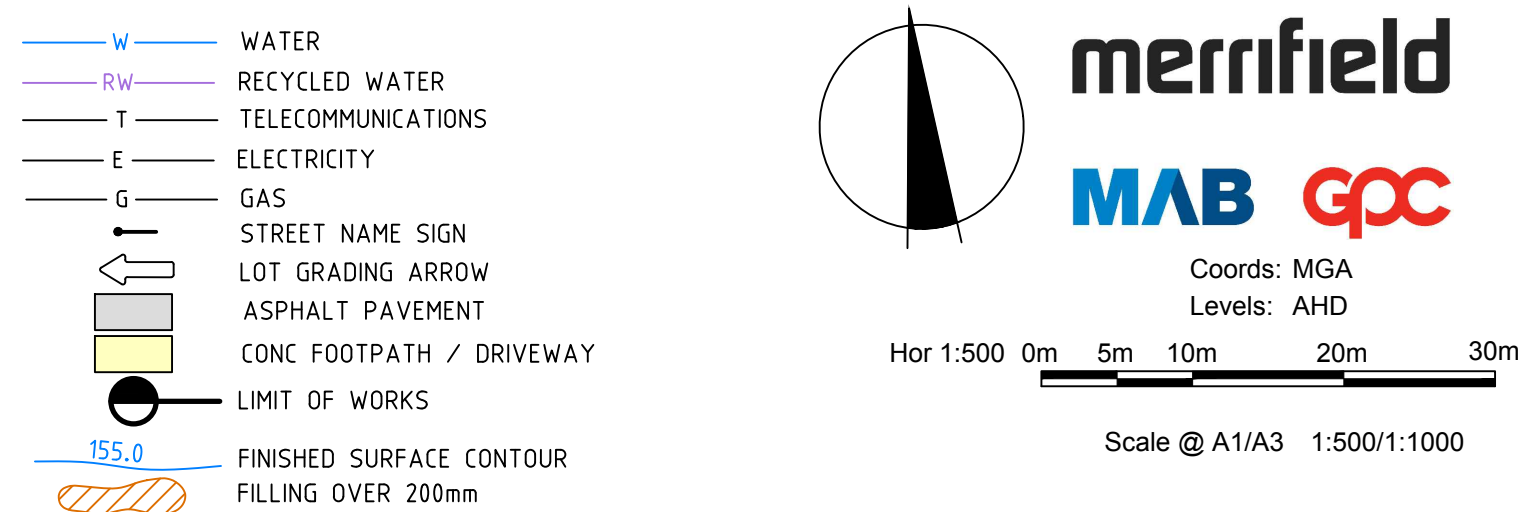
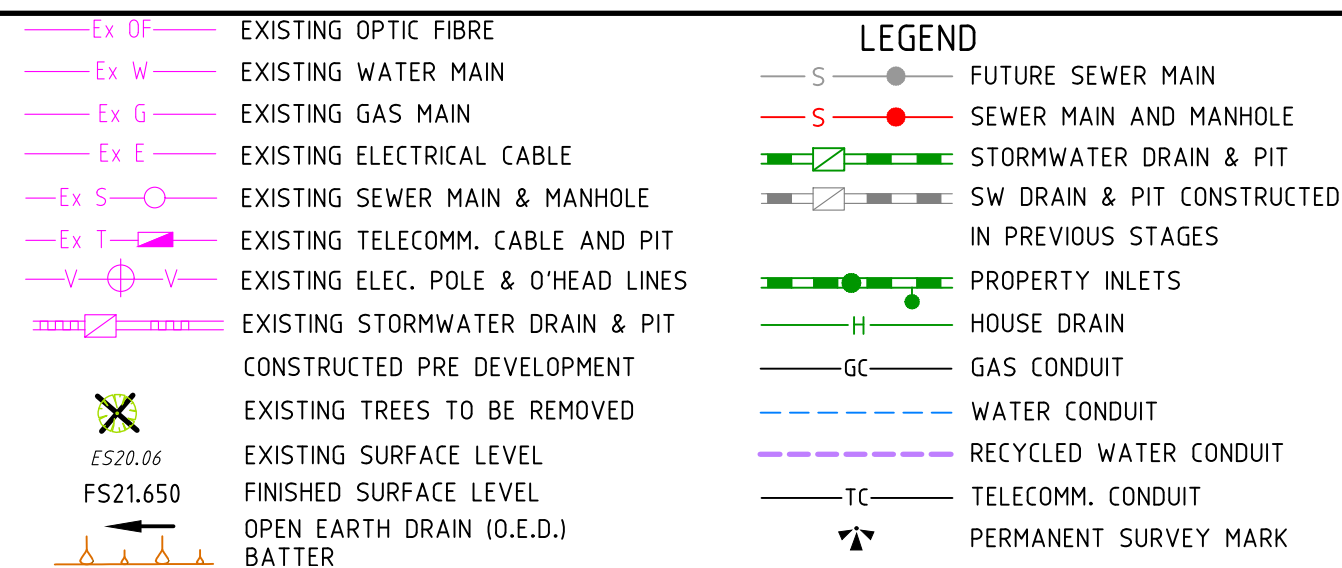
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: \\reserv\g-data\design\11700\11738-merrifield - precinct 1 - stage 18\road\RD\11738DP01.dwg - 11738DP01
Date/Time: Wed Aug 10, 2016 - 3:45pm -- Byron Stacey --

REV	AMENDMENTS	DATE	APP'D.
3	AS CONSTRUCTED	09/08/16	TL
2	TBM AMENDMENTS	22/02/16	TL
1	NBN ALIGNMENTS AMENDED	12/02/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511054
Verified B.GORDON
Date 09/08/15
AN 162491
Audited T.OBOUHOFF
Date 31/01/16
AN 912842
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885123



MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
DETAIL PLAN

Drawing No. 11738DP01 Rev 3
Sheet No. 04 AS CONSTRUCTED

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TABLE OF SERVICES LOCATIONS							
STREET NAME	WATER	NO-WATER	GAS	TELSTRA	ELEC.	POLES	BOK
BENDIGO STREET	3.05 N	2.55 N	2.05 N	1.85 S	2.60 S	-	4.20
CANNING DRIVE	2.80 E	2.30 E	1.80 E	1.85 W	2.60 W	-	4.20
JOLIMONT AVENUE	3.05 W	2.55 W	2.05 W	1.85 W	2.60 E	-	4.20
NAPIER WAY	2.85 N	2.35 N	1.85 N	1.85 S	2.60 S	-	4.20

WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.



AS CONSTRUCTED

Drawing File: \\reservel\g-std\design\11738\11738-merrifield - project 1 - stage 18\road\RD\11738SOP01.dwg - 11738SOP01
Date/Time: Wed Aug 10, 2016 - 3:49pm --byron.shade--

1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511055
Verified B.GORDON
Date 09/09/15
AN 162492
Audited T.OBOUHOFF
Date 31/01/16
AN 912843
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885124

AS CONSTRUCTED

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site, Discrepancies to be brought to the attention of the Superintendent.

HORIZONTAL ALIGNMENT REPORT FOR BENDIGO STREET

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORHTING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	314608.829	5843904.001	249.901	277°03'10.00"	
STRAIGHT	20.000	314588.980	5843906.457	249.930	277°03'10.00"	
STRAIGHT	40.000	314569.132	5843908.913	250.360	277°03'10.00"	
STRAIGHT	60.000	314549.283	5843911.368	250.580	277°03'10.00"	
STRAIGHT	80.000	314529.434	5843913.824	250.780	277°03'10.00"	
STRAIGHT	100.000	314509.586	5843916.280	250.980	277°03'10.00"	
STRAIGHT	120.000	314489.737	5843918.735	251.180	277°03'10.00"	
STRAIGHT	135.000	314474.850	5843920.577	251.330	277°03'10.00"	
STRAIGHT	140.000	314469.888	5843921.191	251.405	277°03'10.00"	
STRAIGHT	160.000	314450.039	5843923.647	251.705	277°03'10.00"	
STRAIGHT	180.000	314430.191	5843926.103	252.005	277°03'10.00"	
STRAIGHT	200.000	314410.342	5843928.558	252.305	277°03'10.00"	

HORIZONTAL ALIGNMENT REPORT FOR JOLIMONT AVENUE

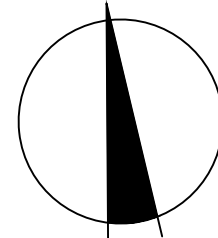
POINT TYPE	CHAINAGE	EASTING	COORDINATES NORHTING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	-0.000	314556.118	5844055.874	250.049	202°27'34.26"	
TANGENT-CURVE	15.590	314550.162	5844041.466	250.010	202°27'34.26"	
CURVE	16.000	314550.008	5844041.086	250.012	201°31'13.55"	-25.000
CURVE	20.000	314548.844	5844037.264	250.032	192°21'11.18"	-25.000
CURVE-TANGENT	22.313	314548.455	5844034.985	250.043	187°03'10.00"	-25.000
STRAIGHT	40.000	314546.283	5844017.431	250.132	187°03'10.00"	
STRAIGHT	60.000	314543.827	5843997.583	250.232	187°03'10.00"	
STRAIGHT	80.000	314541.372	5843977.734	250.332	187°03'10.00"	
STRAIGHT	82.395	314541.078	5843975.357	250.344	187°03'10.00"	
STRAIGHT	100.000	314538.916	5843957.885	250.432	187°03'10.00"	
STRAIGHT	120.000	314536.468	5843938.037	250.532	187°03'10.00"	
STRAIGHT	140.000	314534.005	5843918.188	250.632	187°03'10.00"	
STRAIGHT (END ALN)	144.892	314533.404	5843913.333	250.740	187°03'10.00"	

HORIZONTAL ALIGNMENT REPORT FOR NAPIER WAY

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	314603.181	5843858.350	250.131	97°03'09.91"	
STRAIGHT	20.000	314623.029	5843855.894	249.670	97°03'09.91"	
STRAIGHT	40.000	314642.878	5843853.438	249.403	97°03'09.91"	
STRAIGHT	47.000	314649.823	5843852.579	249.310	97°03'09.91"	
STRAIGHT	60.000	314662.727	5843850.983	249.136	97°03'09.91"	
STRAIGHT (END ALN)	87.000	314689.523	5843847.667	249.046	97°03'09.91"	

HORIZONTAL ALIGNMENT REPORT FOR CANNING DRIVE

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
CURVE	100.000	314633.868	5844007.235	249.364	207°48'01.81"	-100.000
CURVE	106.667	314630.957	5844001.239	249.398	203°58'50.82"	-100.000
CURVE-TANGENT	109.322	314629.911	5843998.799	249.412	202°27'34.26"	-100.000
STRAIGHT	120.000	314625.831	5843988.931	249.465	202°27'34.26"	
TANGENT-CURVE	134.117	314620.438	5843975.884	249.536	202°27'34.26"	
CURVE	140.000	314618.406	5843970.365	249.565	197°57'56.63"	-75.000
CURVE	146.667	314616.634	5843963.941	249.598	192°52'21.98"	-75.000
CURVE-CURVE	151.123	314615.771	5843959.570	249.621	189°28'06.44"	-75.000
CURVE	153.333	314615.439	5843957.384	249.632	187°46'47.33"	-75.000
CURVE-TANGENT	154.285	314615.317	5843956.440	249.636	187°03'10.00"	-75.000
STRAIGHT	160.000	314614.615	5843950.769	249.665	187°03'10.00"	
STRAIGHT	180.000	314612.159	5843930.920	249.765	187°03'10.00"	
STRAIGHT	200.000	314609.704	5843911.071	249.865	187°03'10.00"	
STRAIGHT	220.000	314607.248	5843891.223	249.965	187°03'10.00"	
STRAIGHT	240.000	314604.792	5843871.374	250.065	187°03'10.00"	
STRAIGHT	260.000	314602.337	5843851.525	250.165	187°03'10.00"	
STRAIGHT	270.874	314601.000	5843840.731	250.219	187°03'10.00"	
STRAIGHT	280.000	314599.881	5843831.677	250.265	187°03'10.00"	
STRAIGHT	300.000	314597.425	5843811.828	250.365	187°03'10.00"	

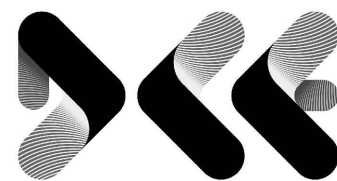


Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 18
SET OUT DETAILS

Drawing No. 11738SOP01 Rev 1
Sheet No. 05 AS CONSTRUCTED

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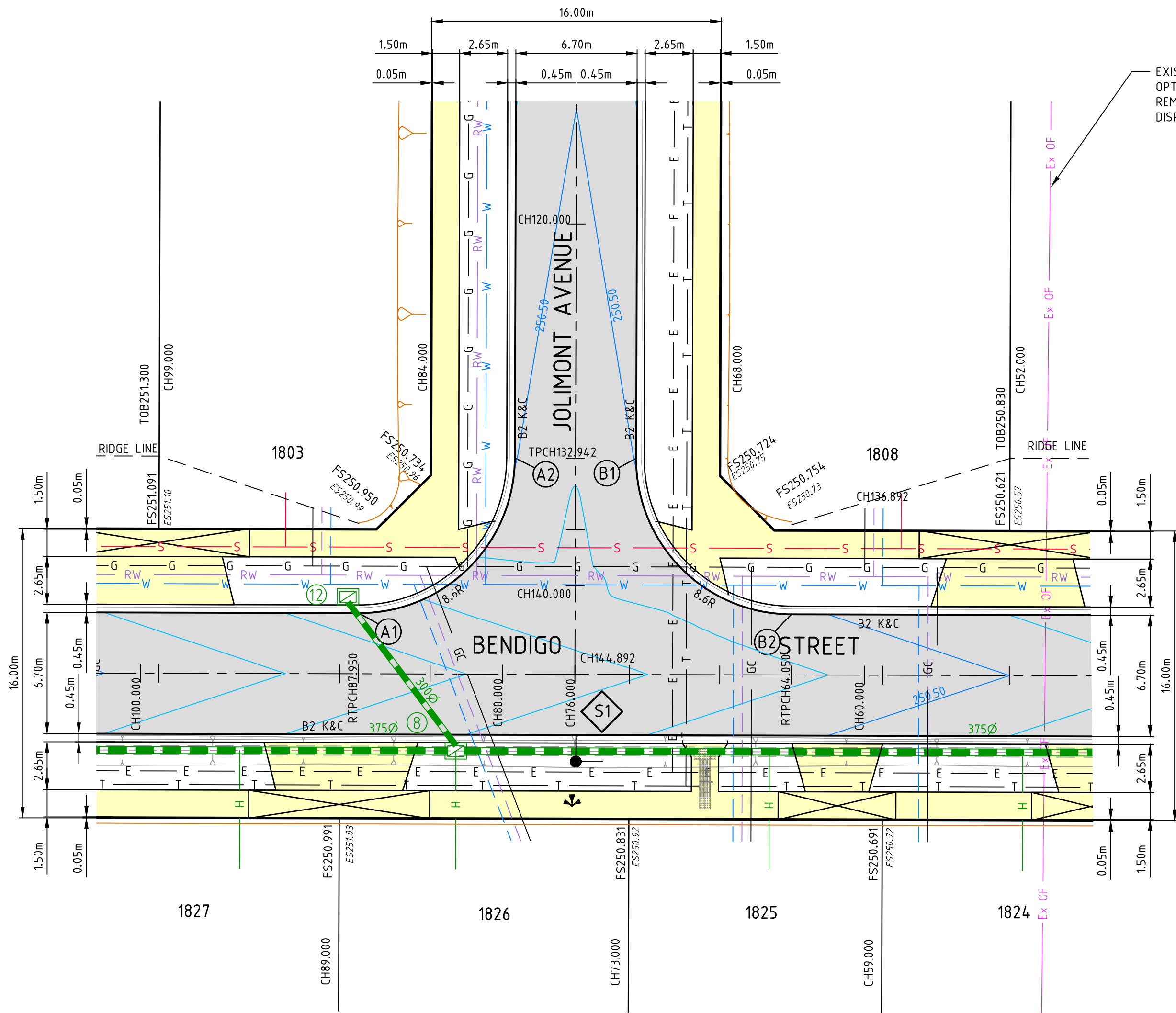
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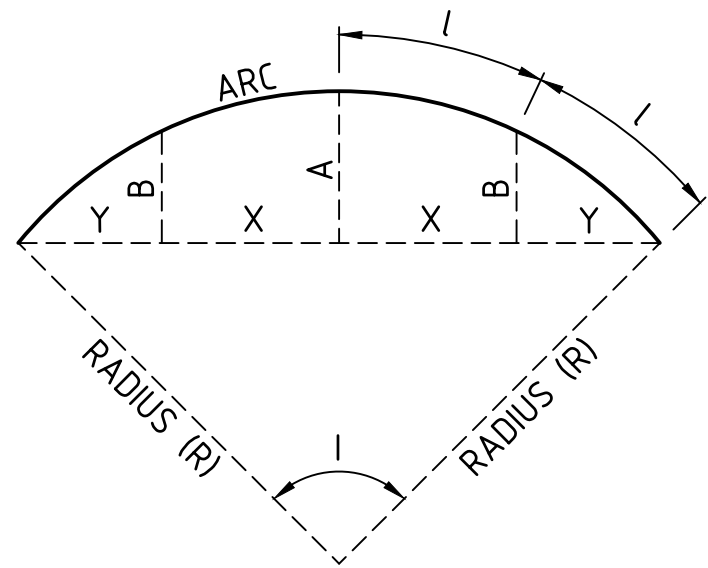
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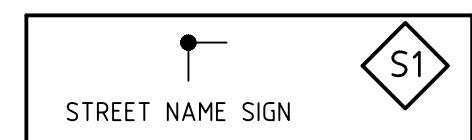
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Date/Time: Wed Aug 10, 2016 - 3:49pm --byron.shade--



PLAN



LIP SETOUT DETAIL
N.T.S.



SIGNAGE LEGEND
N.T.S.

AS CONSTRUCTED

ALIGNMENT A

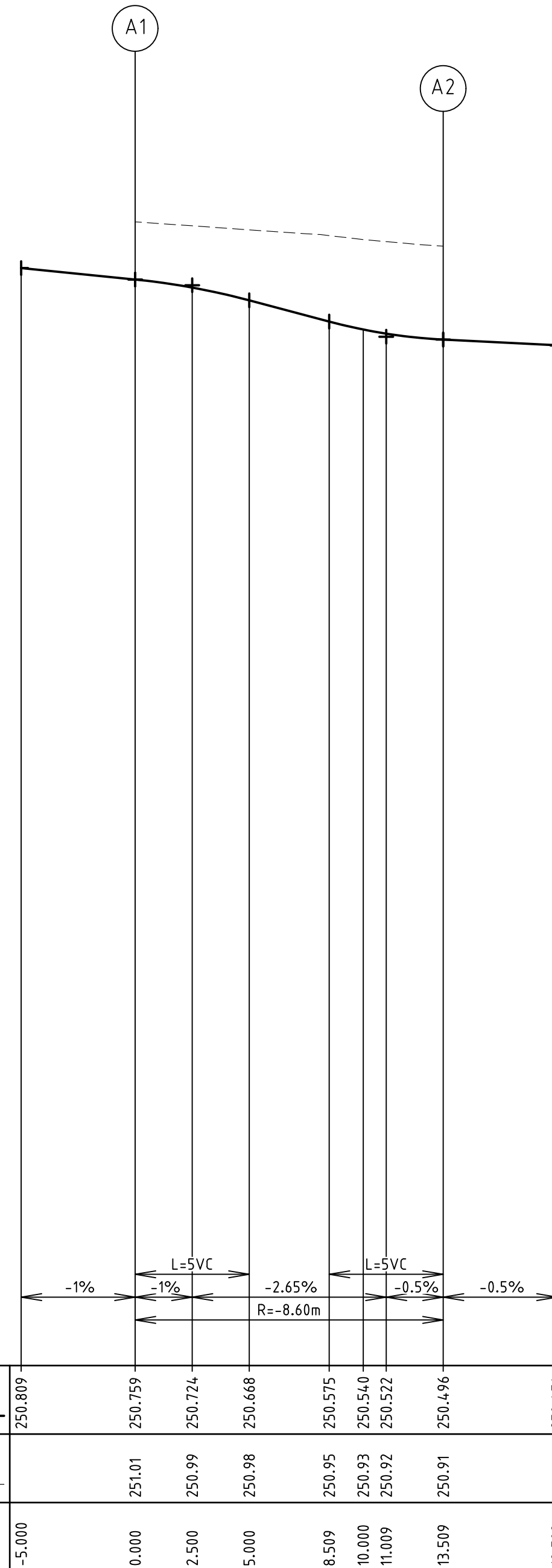
POINT NO	EASTING	NORTHING	RL
A1	314521.956	5843918.125	250.759
A2	314531.547	5843925.604	250.496

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	250.621

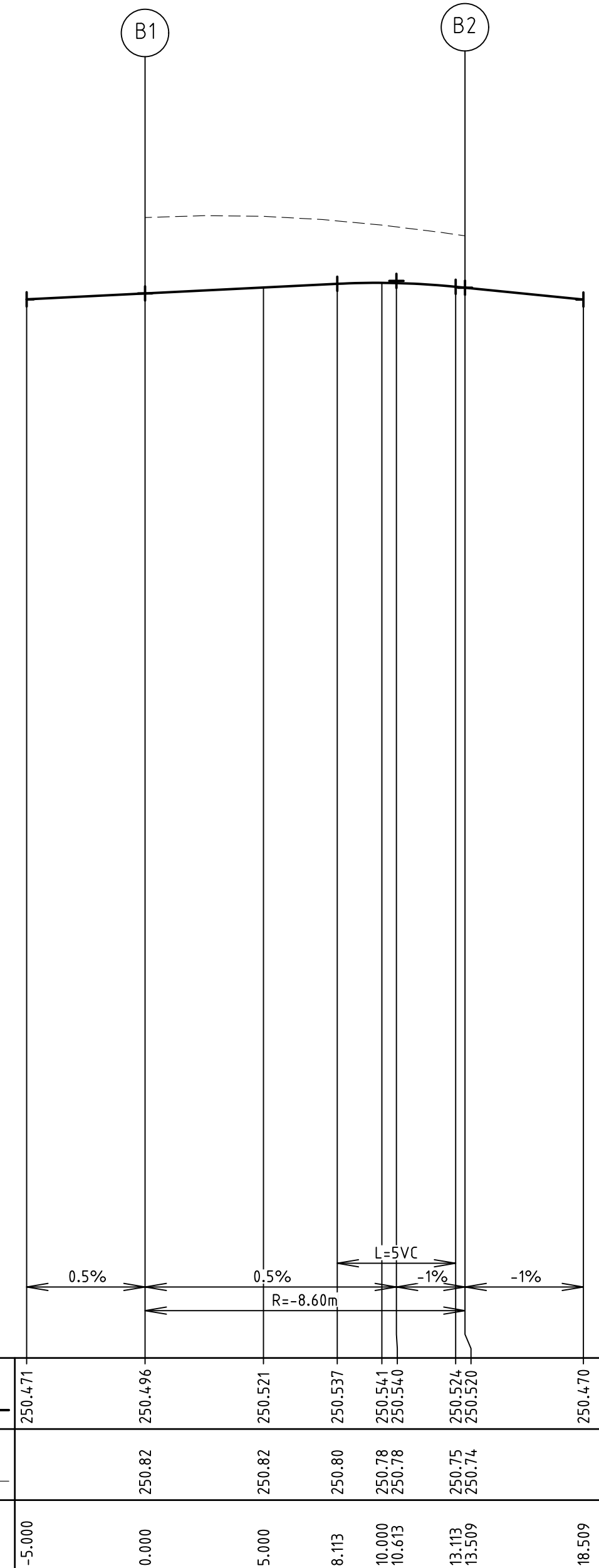
ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	314538.196	5843924.781	250.496
B2	314545.675	5843915.190	250.520

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	250.530



LIP PROFILE A



LIP PROFILE B

WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN
ON THESE PLANS MUST BE PROVEN ON SITE,
THE APPROPRIATE AUTHORITY MUST BE
CONTACTED AND THE SERVICES LOCATED PRIOR
TO COMMENCEMENT OF ANY WORKS.

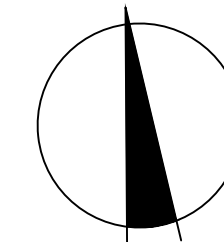
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1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511056
Verified B.GORDON
Date 09/09/15
AN 162493
Audited T.OBOUHOFF
Date 31/01/16
AN 912844
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885125

- Ex OF EXISTING OPTIC FIBRE
- Ex W EXISTING WATER MAIN
- Ex S EXISTING GAS MAIN
- Ex E EXISTING ELECTRICAL CABLE
- Ex S-O EXISTING SEWER MAIN & MANHOLE
- Ex T EXISTING TELECOMM. CABLE AND PIT
- Ex V EXISTING ELEC. POLE & O'HEAD LINES
- Ex V EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- EXISTING TREES TO BE REMOVED
- FINISHED SURFACE LEVEL
- OPEN EARTH DRAIN (O.E.D.)

- LEGEND
- 300Ø BRANCH SEWER MAIN
- SEWER MAIN AND MANHOLE
- STORMWATER DRAIN & PIT
- SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
- PROPERTY INLETS
- HOUSE DRAIN
- GAS CONDUIT
- WATER CONDUIT
- RECYCLED WATER CONDUIT
- TELECOMM. CONDUIT
- PERMANENT SURVEY MARK

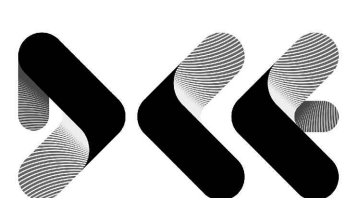
- W WATER
- RW RECYCLED WATER
- T TELECOMMUNICATIONS
- E ELECTRICITY
- G GAS
- STREET NAME SIGN
- LOT GRADING ARROW
- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LIMIT OF WORKS
- 155.0 FINISHED SURFACE CONTOUR
- FILLING OVER 300mm



merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:200 0m 2m 4m 8m 12m
Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m
Scale @ A1/A3 1:200/1:400
VER A1/A3 1:20/1:40

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
INTERSECTION DETAILS
SHEET 01 OF 03
Drawing No. 11738ID01 Rev 1
Sheet No. 06 AS CONSTRUCTED
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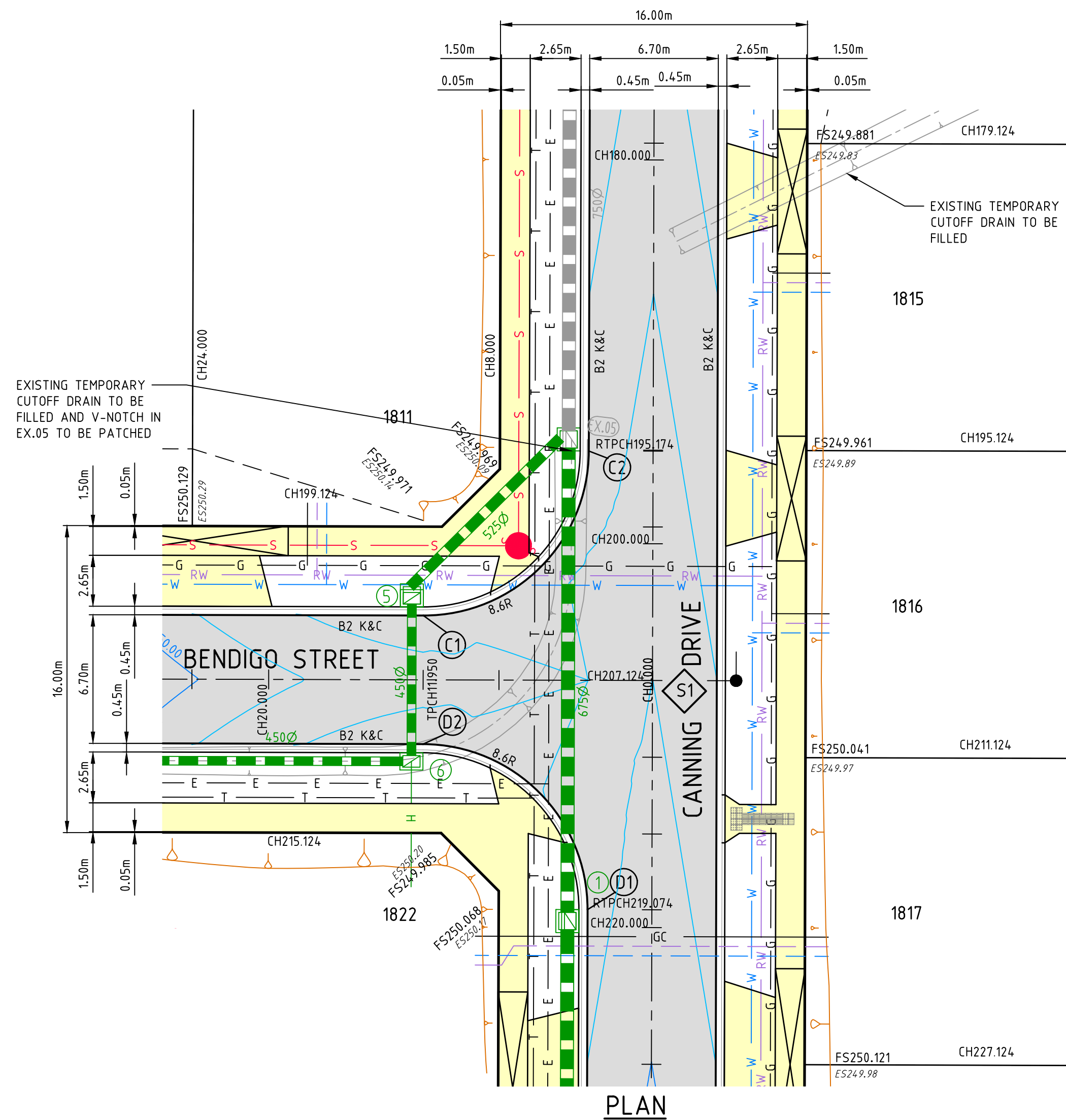


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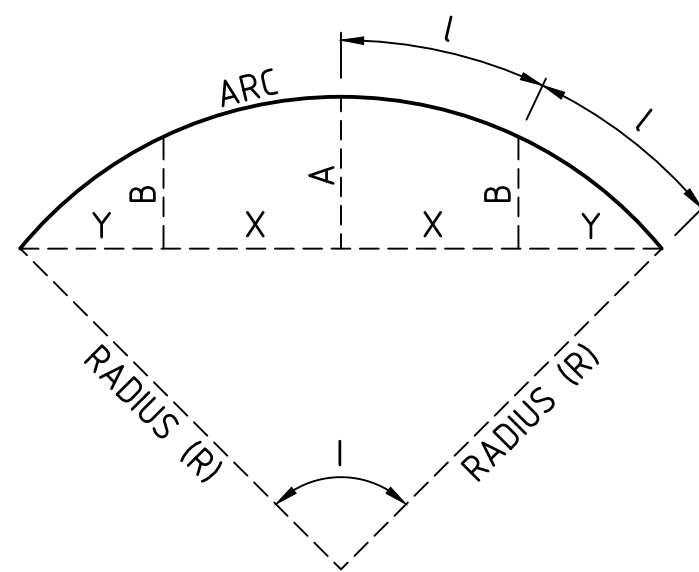
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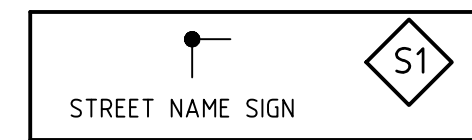


PLAN



LIP SETOUT DETAIL

N.T.S.



SIGNAGE LEGEND

N.T.S.

AS CONSTRUCTED

WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

ALIGNMENT C

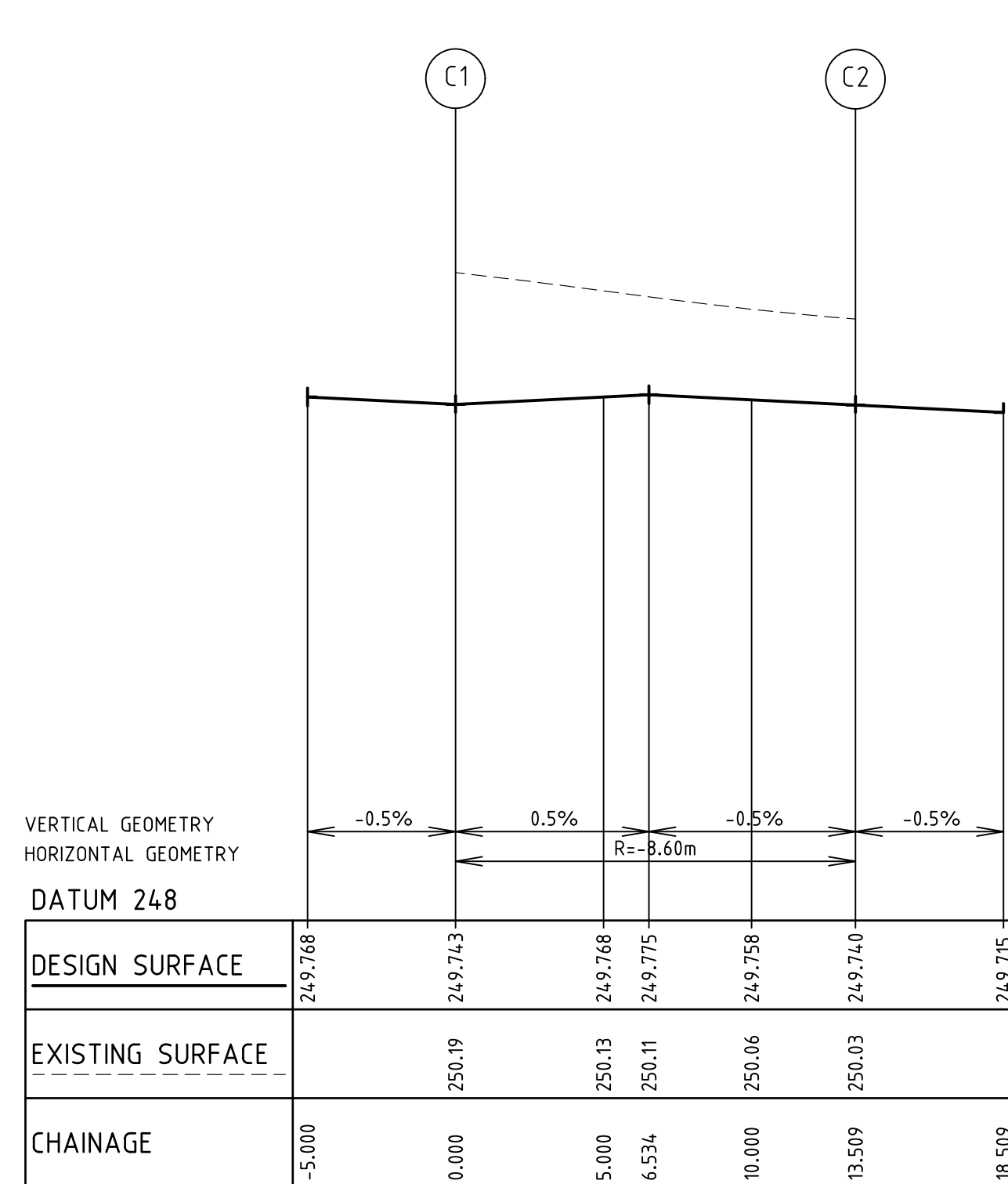
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C1	314597.381	5843908.793	249.743
C2	314606.971	5843916.272	249.740

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
C1 - C2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	249.774

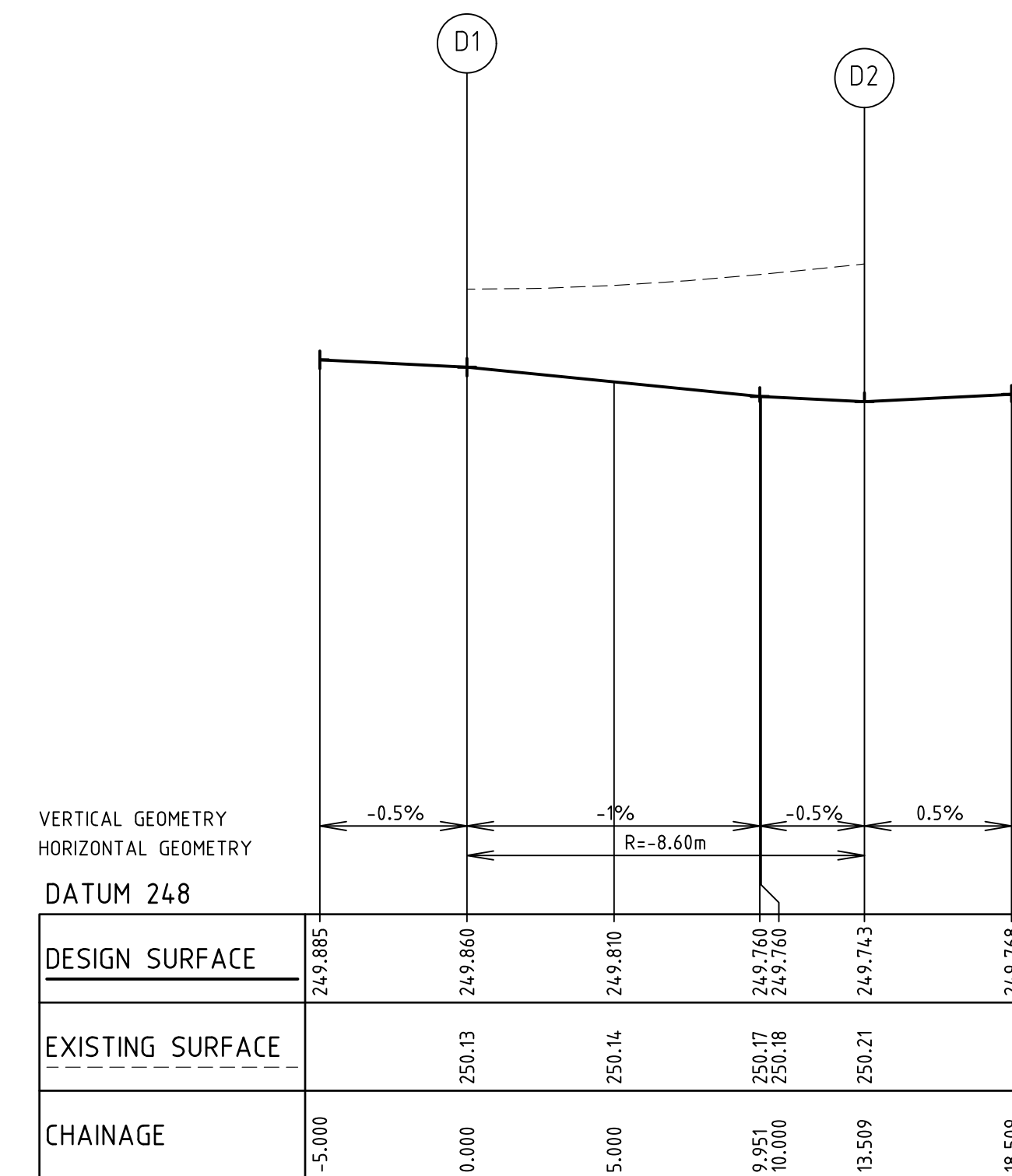
ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	314604.037	5843892.553	249.860
D2	314596.558	5843902.144	249.743

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
D1 - D2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	249.792



LIP PROFILE C



LIP PROFILE D

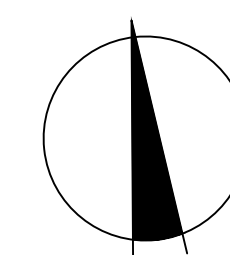
REV	AMENDMENTS	DATE	APP'D
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0	CONSTRUCTION ISSUE	03/02/16	TL

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511057
Verified B.GORDON
Date 09/09/15
AN 162494
Audited T.TOROUHOFF
Date 31/01/16
AN 912845
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885126

- Ex OF EXISTING OPTIC FIBRE
- Ex W EXISTING WATER MAIN
- Ex S EXISTING GAS MAIN
- Ex G EXISTING ELECTRICAL CABLE
- Ex S-O EXISTING SEWER MAIN & MANHOLE
- Ex T EXISTING TELECOMM. CABLE AND PIT
- Ex V EXISTING ELEC. POLE & O'HEAD LINES
- Ex V EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- EXISTING TREES TO BE REMOVED
- EXISTING SURFACE LEVEL
- FINISHED SURFACE LEVEL
- OPEN EARTH DRAIN (O.E.D.)

- LEGEND
- 300Ø BRANCH SEWER MAIN
- SEWER MAIN AND MANHOLE
- STORMWATER DRAIN & PIT
- SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
- PROPERTY INLETS
- HOUSE DRAIN
- GAS CONDUIT
- WATER CONDUIT
- RECYCLED WATER CONDUIT
- TELECOMM. CONDUIT
- PERMANENT SURVEY MARK

- W WATER
- RW RECYCLED WATER
- T TELECOMMUNICATIONS
- E ELECTRICITY
- G GAS
- STREET NAME SIGN
- LOT GRADING ARROW
- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LIMIT OF WORKS
- FINISHED SURFACE CONTOUR
- FILLING OVER 300mm



merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:200 0m 2m 4m 8m 12m
Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m
Scale @ A1/A3 1:200/1:400
VER A1/A3 1:20/1:40

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
INTERSECTION DETAILS
SHEET 02 OF 03
Drawing No. 11738ID02
Rev 1
AS CONSTRUCTED

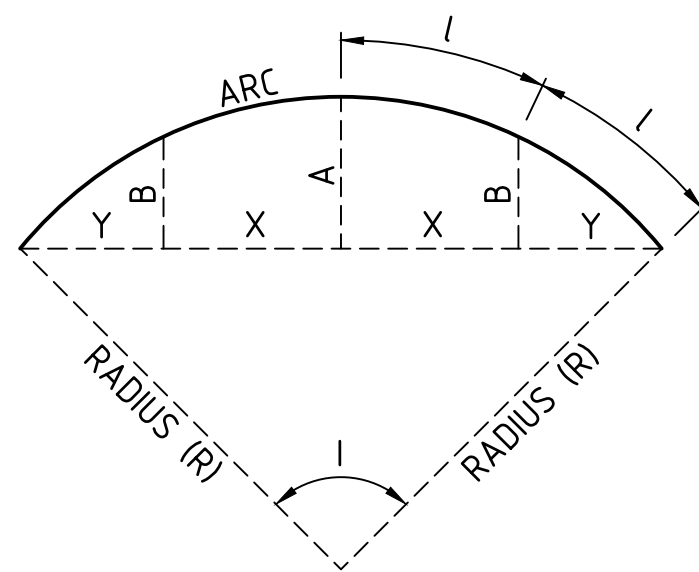
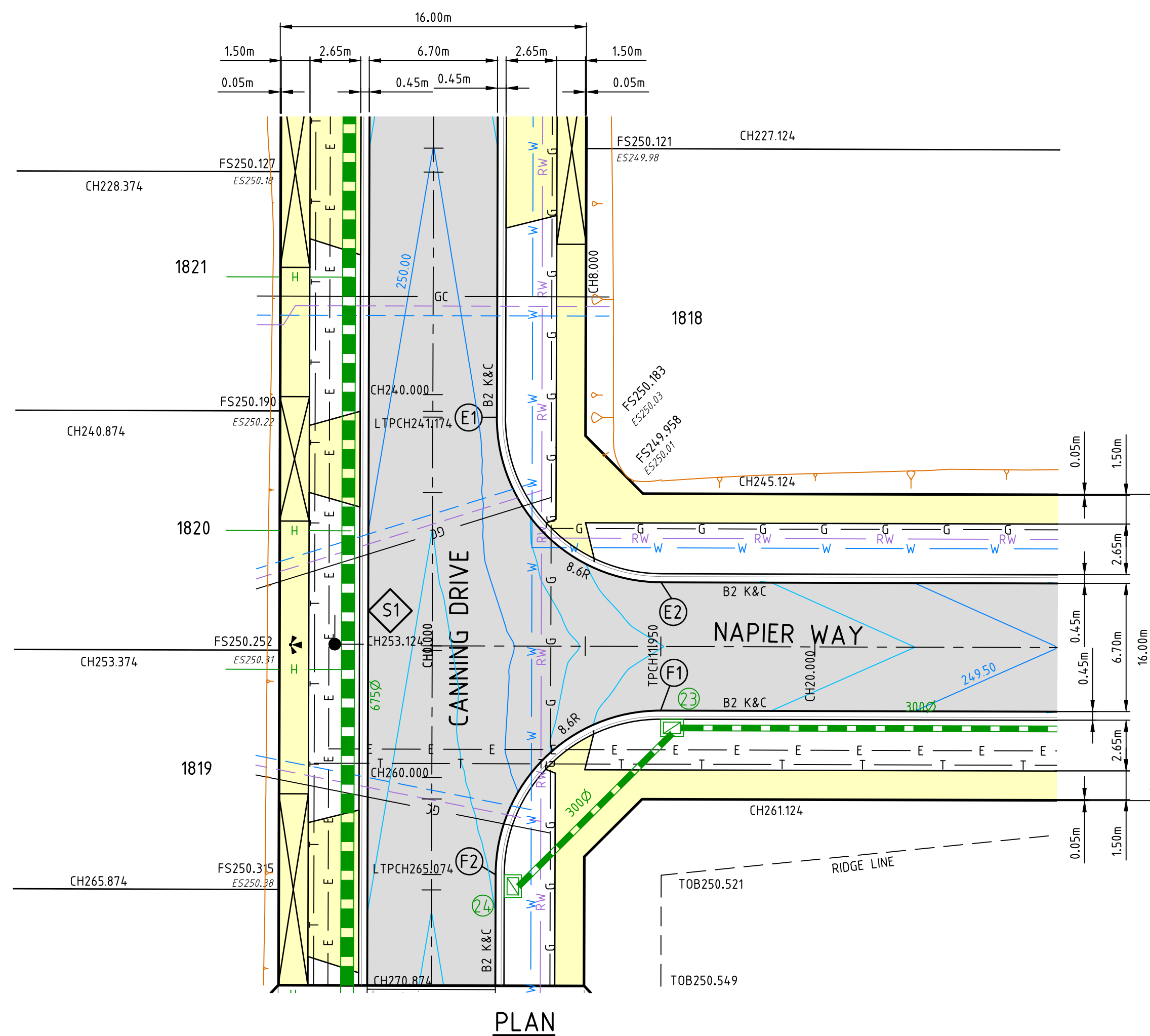
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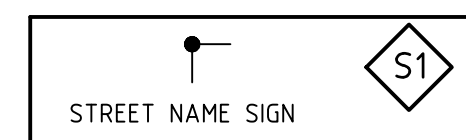
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LIP SETOUT DETAIL
N.T.S.



SIGNAGE LEGEND
N.T.S.

AS CONSTRUCTED

ALIGNMENT E

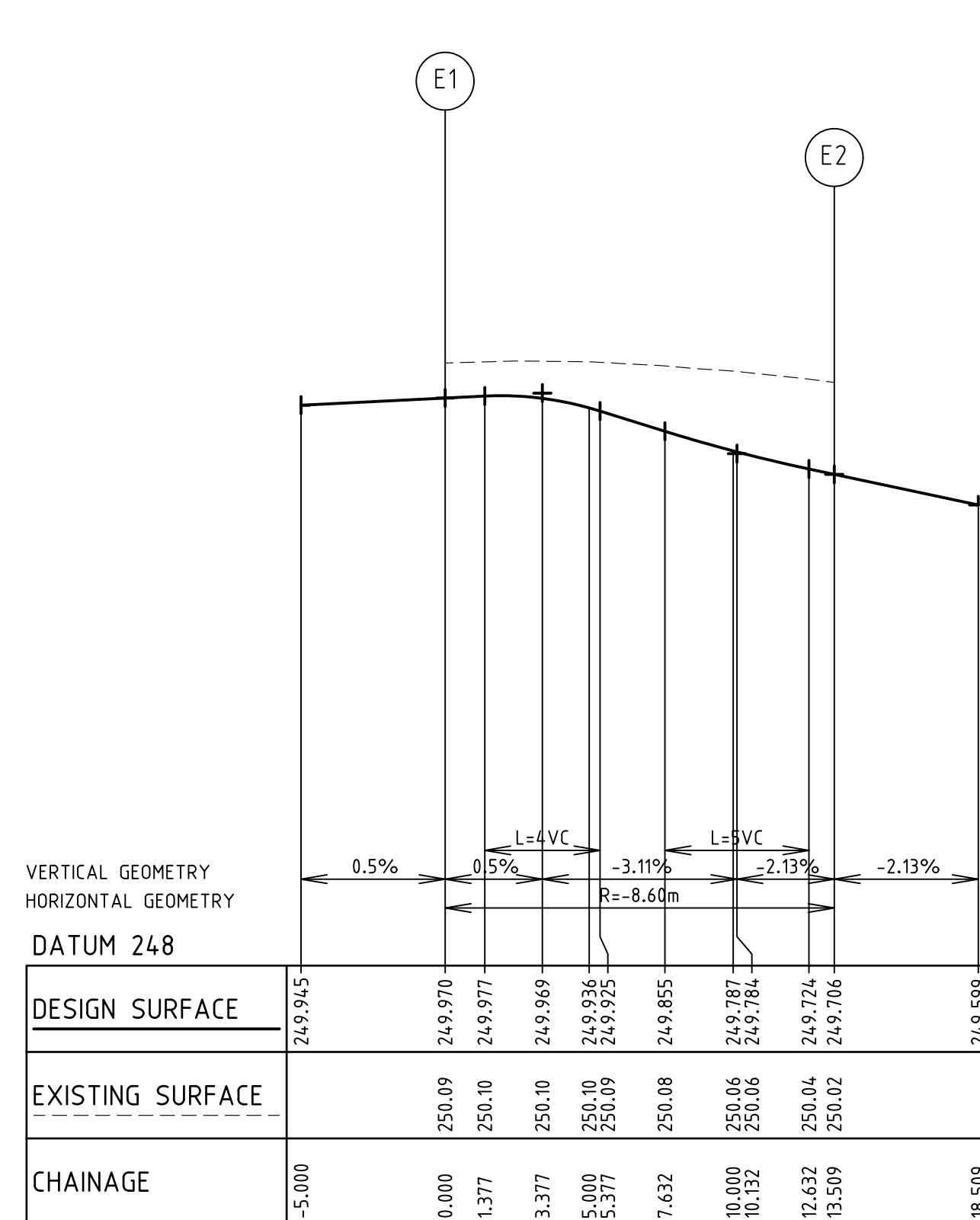
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E1	314607.973	5843869.798	249.970
E2	314615.452	5843860.207	249.706

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
E1 - E2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	249.882

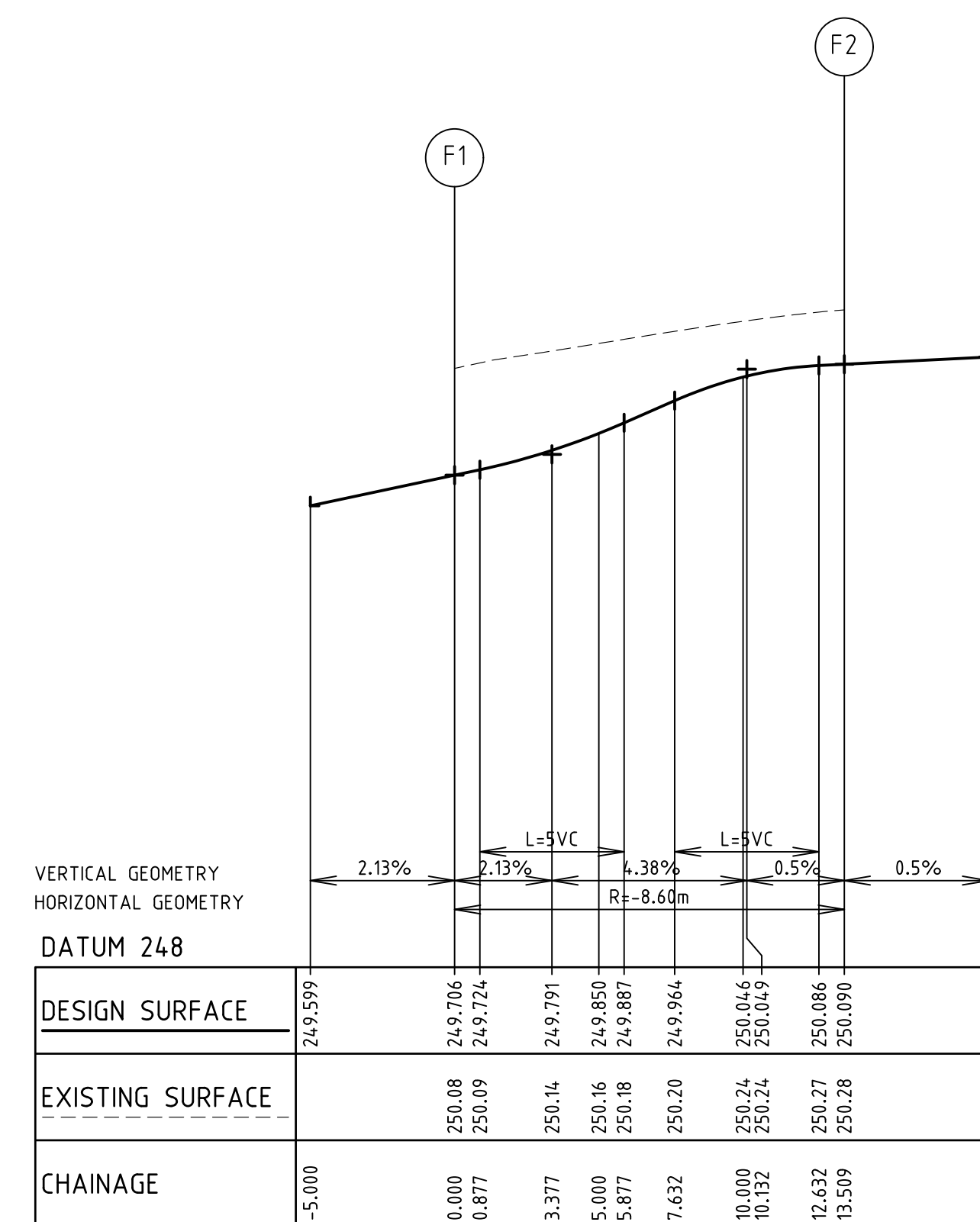
ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	314614.629	5843853.558	249.706
F2	314605.038	5843846.079	250.090

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
F1 - F2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	249.925



LIP PROFILE E



LIP PROFILE F

REV	AMENDMENTS	DATE	APP'D
1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL

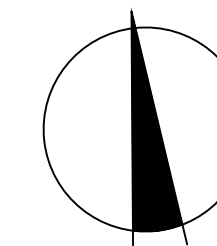
REV	AMENDMENTS	DATE	APP'D
1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511058
Verified B.GORDON
Date 09/09/15
AN 162495
Audited T.OBOUHOFF
Date 31/01/16
AN 912846
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885127

- Ex OF EXISTING OPTIC FIBRE
- Ex W EXISTING WATER MAIN
- Ex S EXISTING GAS MAIN
- Ex G EXISTING ELECTRICAL CABLE
- Ex S-O EXISTING SEWER MAIN & MANHOLE
- Ex T EXISTING TELECOMM. CABLE AND PIT
- Ex V EXISTING ELEC. POLE & O'HEAD LINES
- Ex V EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- EXISTING TREES TO BE REMOVED
- FINISHED SURFACE LEVEL
- OPEN EARTH DRAIN (O.E.D.)

- LEGEND
- 300Ø BRANCH SEWER MAIN
- SEWER MAIN AND MANHOLE
- STORMWATER DRAIN & PIT
- SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
- PROPERTY INLETS
- HOUSE DRAIN
- GAS CONDUIT
- WATER CONDUIT
- RECYCLED WATER CONDUIT
- TELECOMM. CONDUIT
- PERMANENT SURVEY MARK

- W WATER
- RW RECYCLED WATER
- T TELECOMMUNICATIONS
- E ELECTRICITY
- G GAS
- STREET NAME SIGN
- LOT GRADING ARROW
- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LIMIT OF WORKS
- 155.0 FINISHED SURFACE CONTOUR
- FILLING OVER 300mm



merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:200 0m 2m 4m 8m 12m
Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m
Scale @ A1/A3 1:200/1:400
VER A1/A3 1:20/1:40

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
INTERSECTION DETAILS
SHEET 03 OF 03
Drawing No. 11738ID03 Rev 1
AS CONSTRUCTED

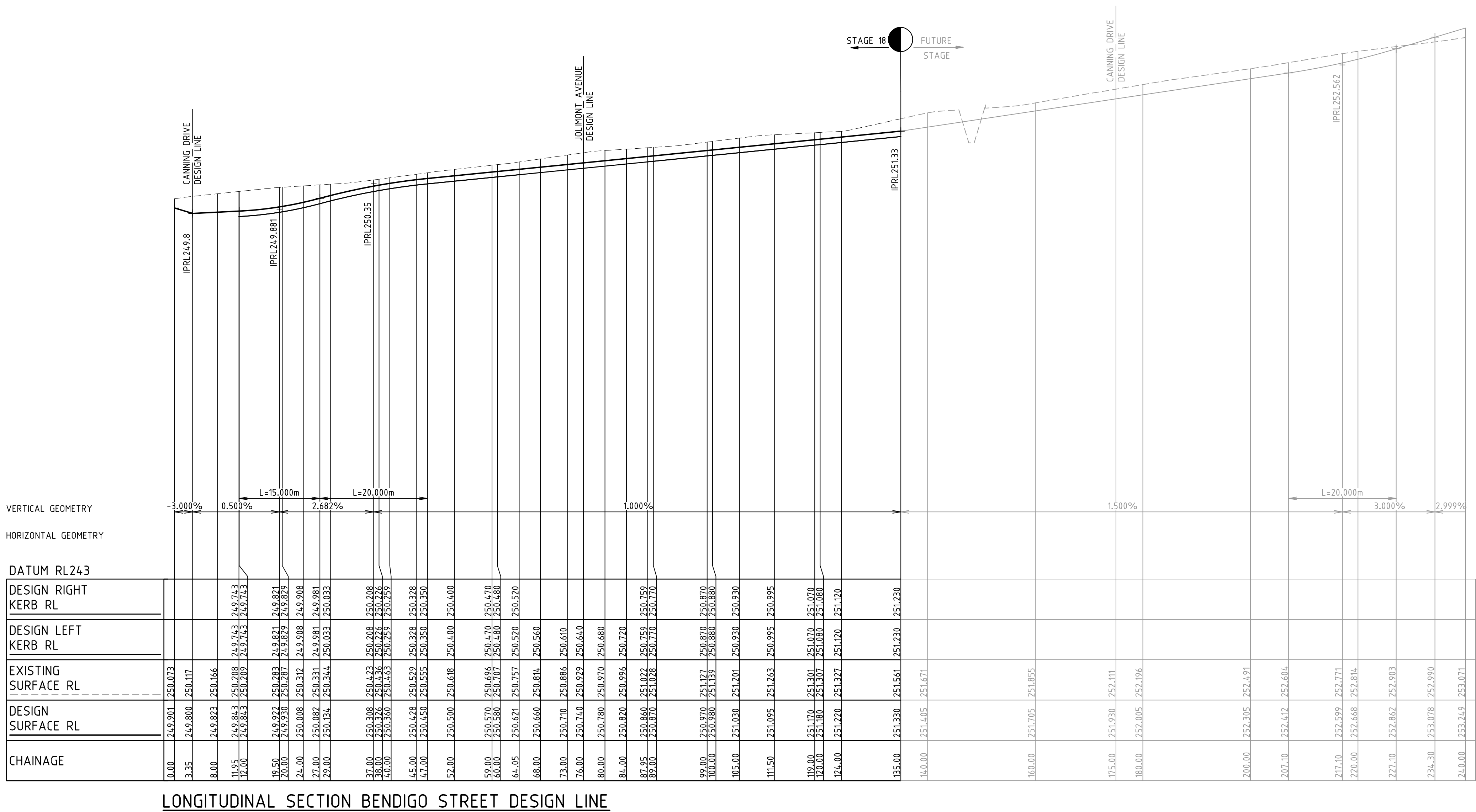
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Date/Time: Wed Aug 10, 2016 - 3:50pm --byron.shade--



AS CONSTRUCTED

1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511059
Verified B.GORDON
Date 09/09/15
AN 162496
Audited T.OBOUHOFF
Date 31/01/16
AN 912847
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885128



Coords: MGA
Levels: AHD
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Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000
VER: 1:50/1:100

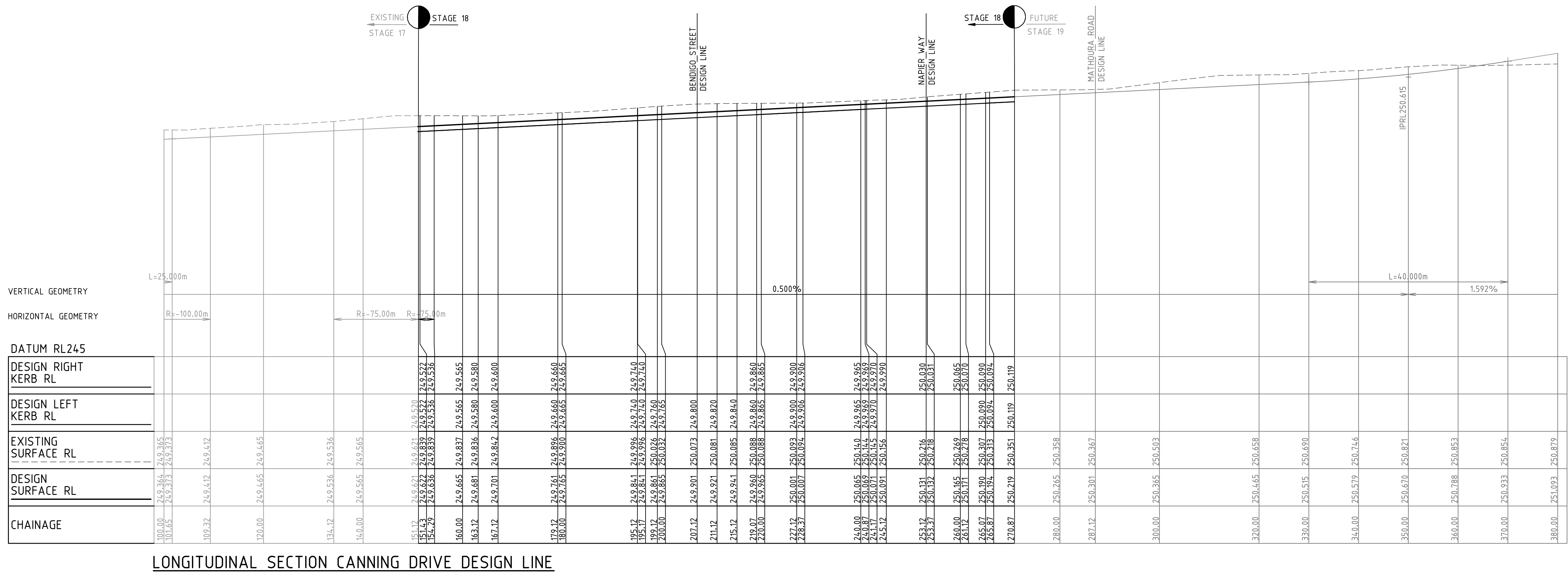
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
LONGITUDINAL SECTIONS
SHEET 01 OF 03
Drawing No. 11738LS01 Rev 1
Sheet No. 09 AS CONSTRUCTED
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Date/Time: Wed Aug 10, 2016 - 3:50pm --byron.shade--



AS CONSTRUCTED



Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000
VER: 1:50/1:100

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
LONGITUDINAL SECTIONS
SHEET 02 OF 03
Drawing No. 11738LS02 Rev 1
AS CONSTRUCTED



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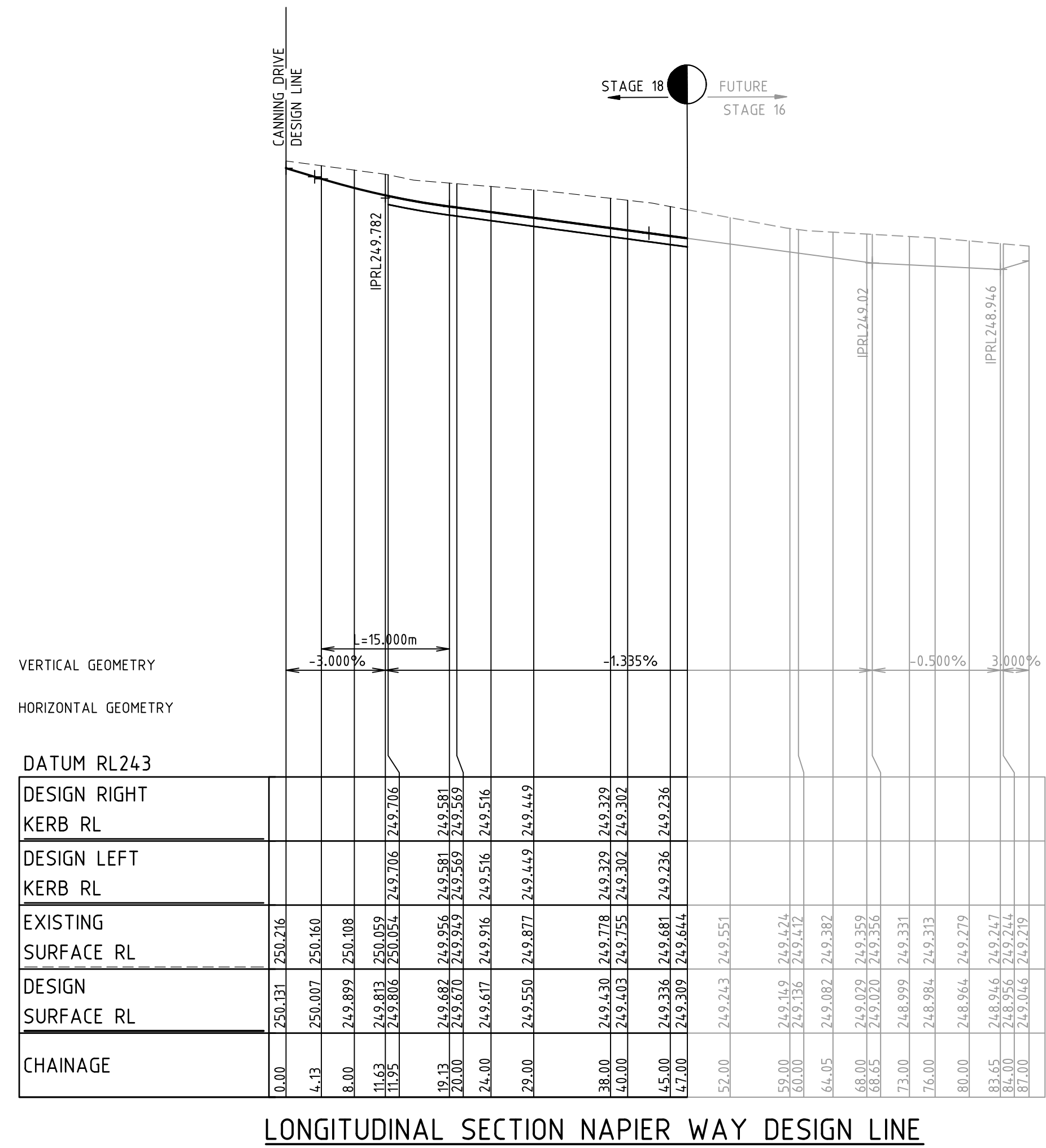
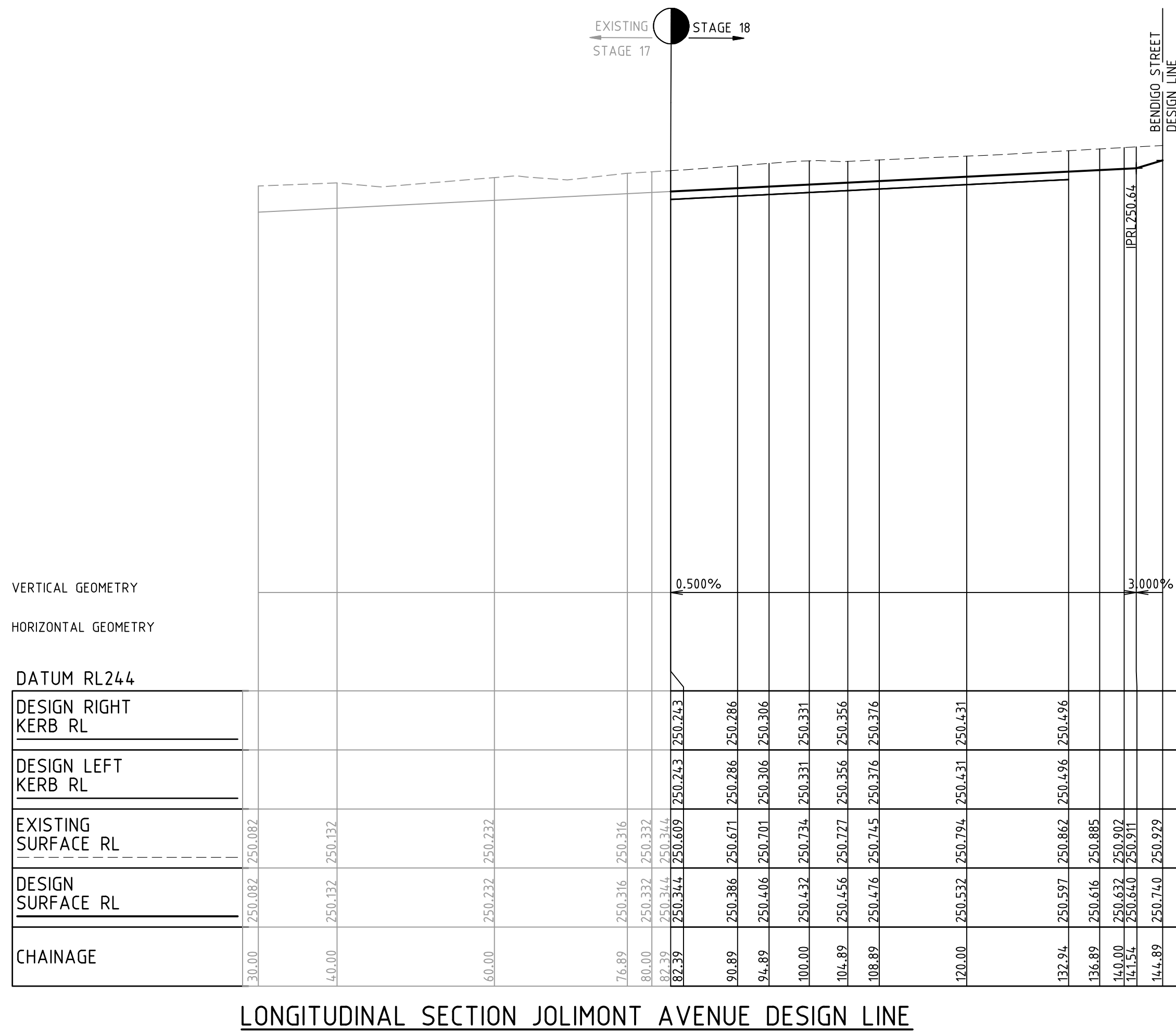
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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511060
Verified B.GORDON
Date 09/09/15
AN 162497
Audited T.OBOUHOFF
Date 31/01/16
AN 912848
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885129

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: \\resnet\lg-data\design\11738\11738-merrifield - precinct 1 - stage 18\road\18\11738LS03.dwg - 11738LS03
Date/Time: Wed Aug 10, 2016 - 3:50pm --byron.shade--



1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511060
Verified B.GORDON
Date 09/09/15
AN 162498
Audited T.OBOUHOFF
Date 31/01/16
AN 912849
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885128

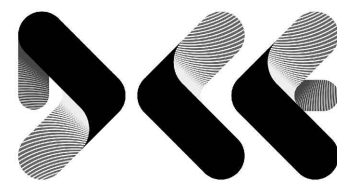
AS CONSTRUCTED



Coords: MGA
Levels: AHD
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Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000
VER: 1:50/1:100

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
LONGITUDINAL SECTIONS
SHEET 03 OF 03
Drawing No. 11738LS03 Rev 1
Sheet No. 11 AS CONSTRUCTED

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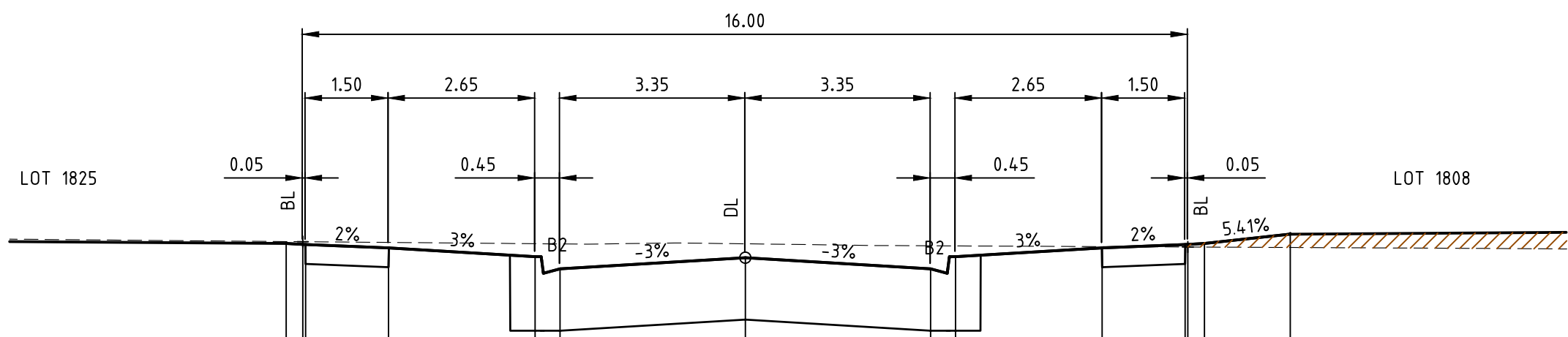


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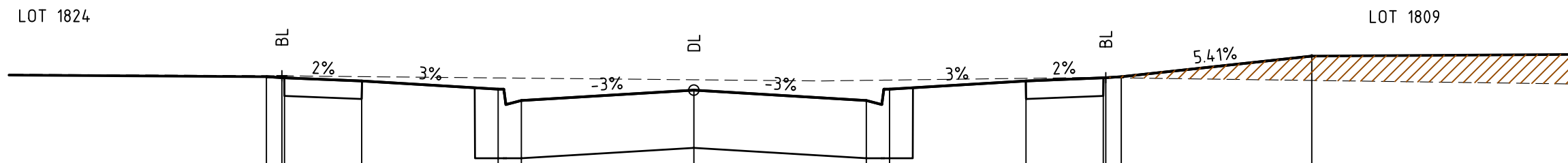
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Date/Time: Wed Aug 10, 2016 - 3:50pm --byron.shade--



DATUM RL249.000

DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

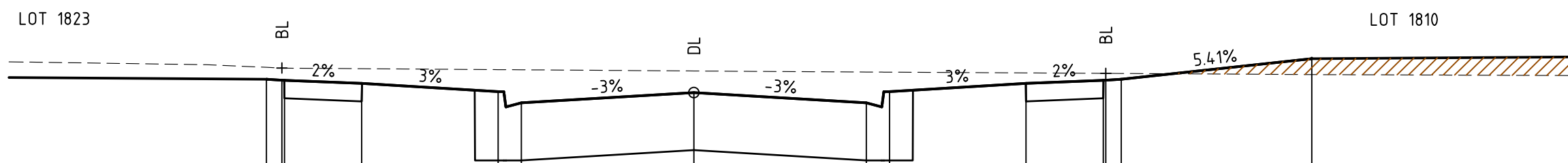
CH 59.000



DATUM RL249.000

DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

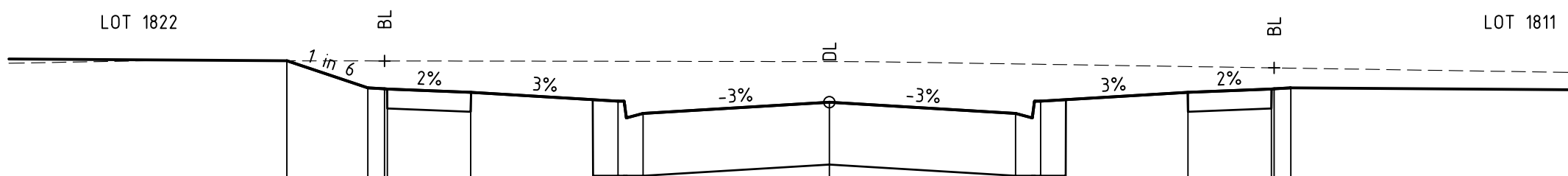
CH 45.000



DATUM RL248.000

DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

CH 29.000

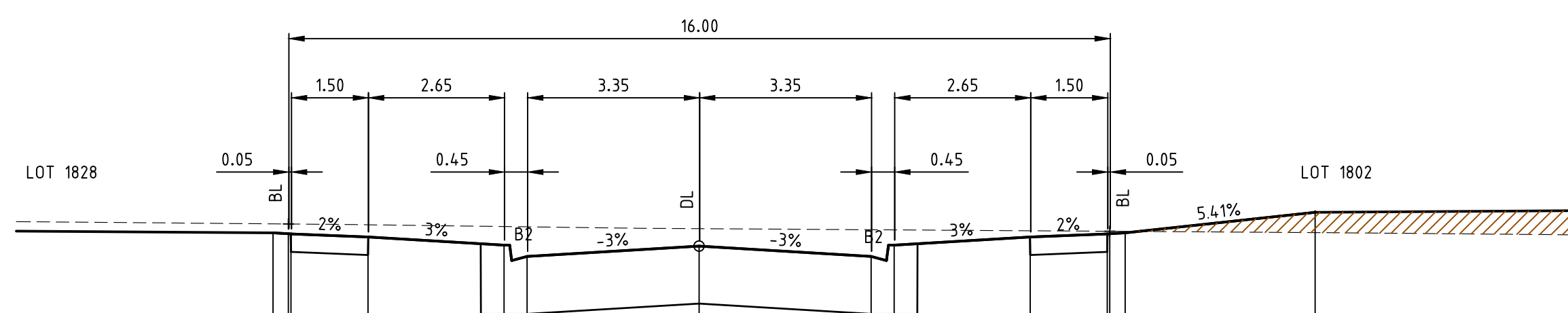


DATUM RL248.000

DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

CH 11.950

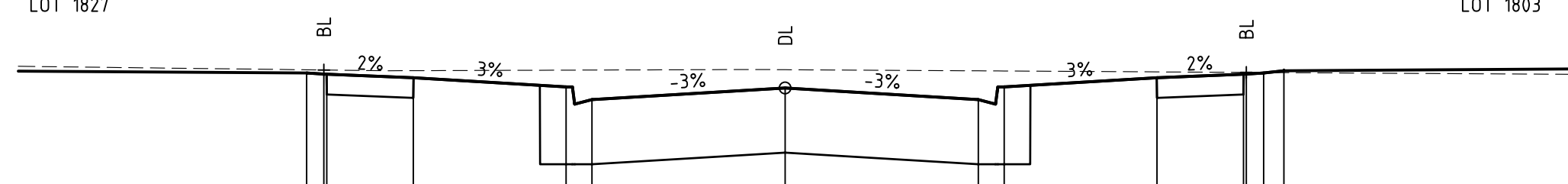
BENDIGO STREET



DATUM RL249.000

DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

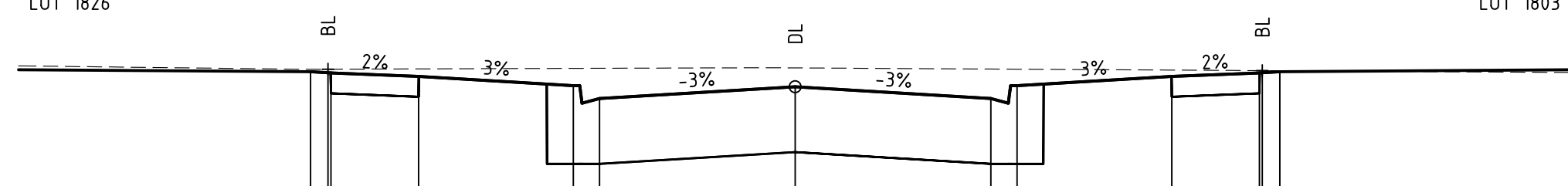
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DATUM RL249.000

DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

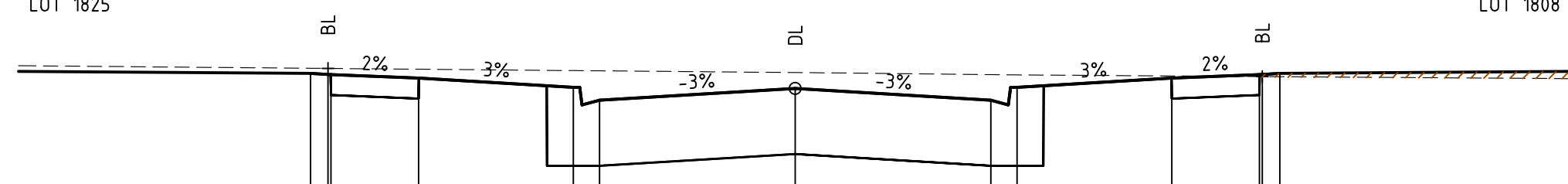
CH 89.000



DATUM RL249.000

DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

CH 87.950



DATUM RL249.000

DESIGN SURFACE	
EXISTING SURFACE	
OFFSET	

CH 64.050

LEGEND



DENOTES ENGINEERED FILL TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY GOLDER ASSOCIATES. ENGINEERING FILL TO BE APPROVED BY HUME CITY COUNCIL REFER TO DWG 11738TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.

AS CONSTRUCTED

merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200
VER: 1:50/1:100

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
CROSS SECTIONS
SHEET 01 OF 05
Drawing No. 11738XS01 Rev 1
Sheet No. 12 AS CONSTRUCTED
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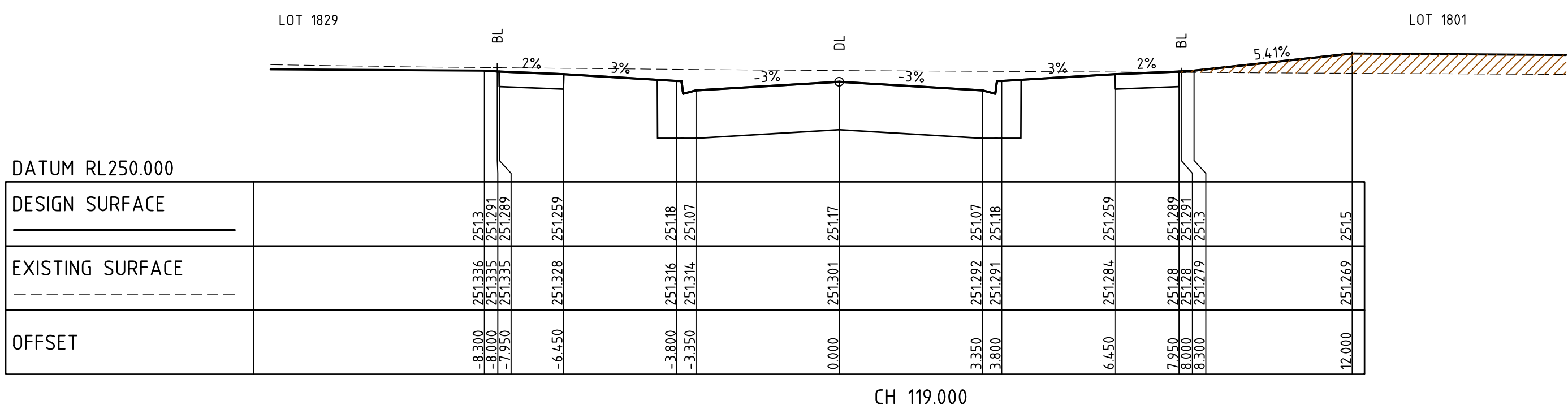
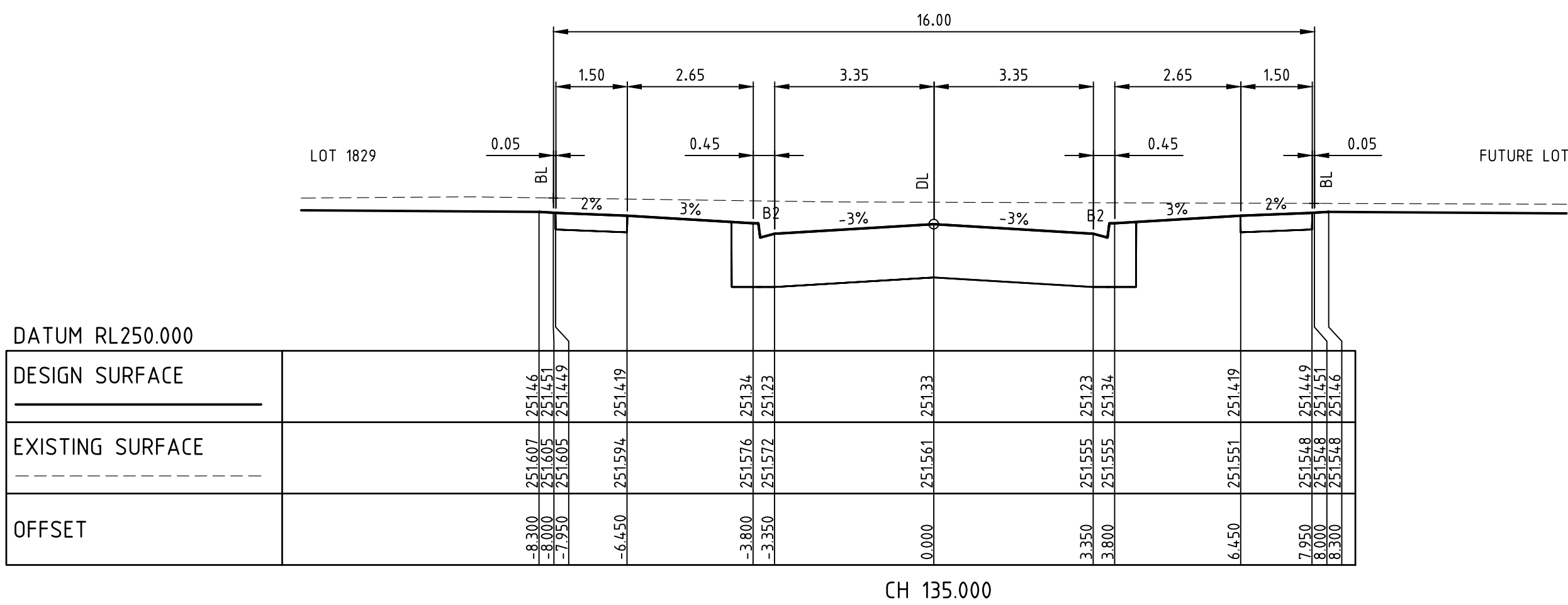
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E info@dceng.com.au

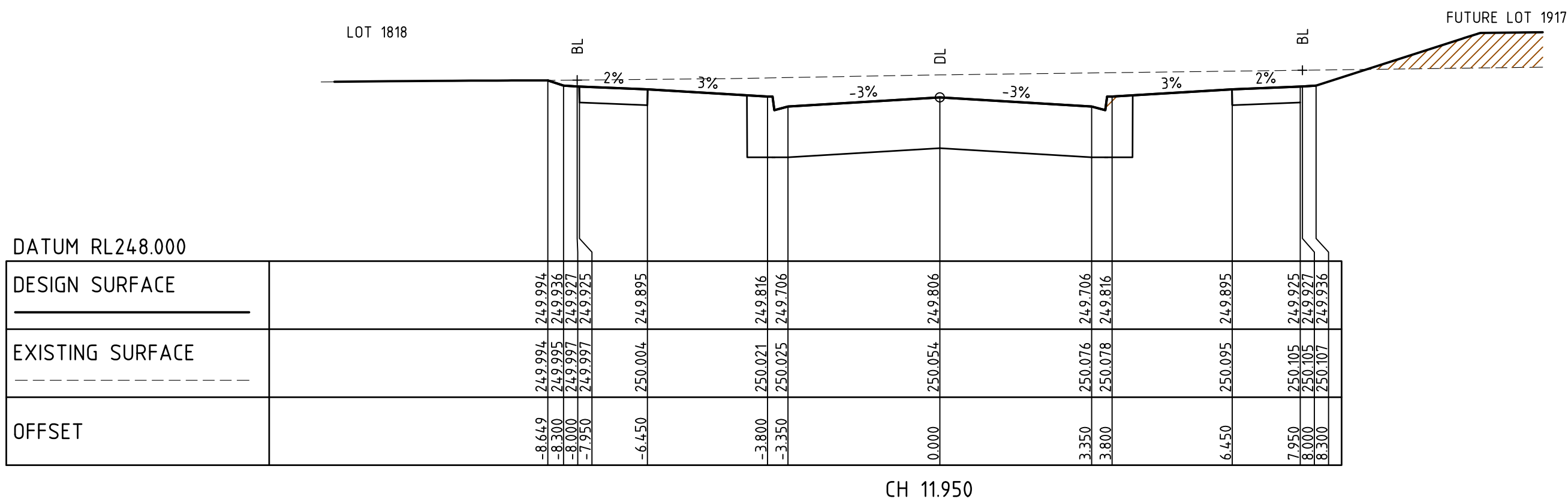
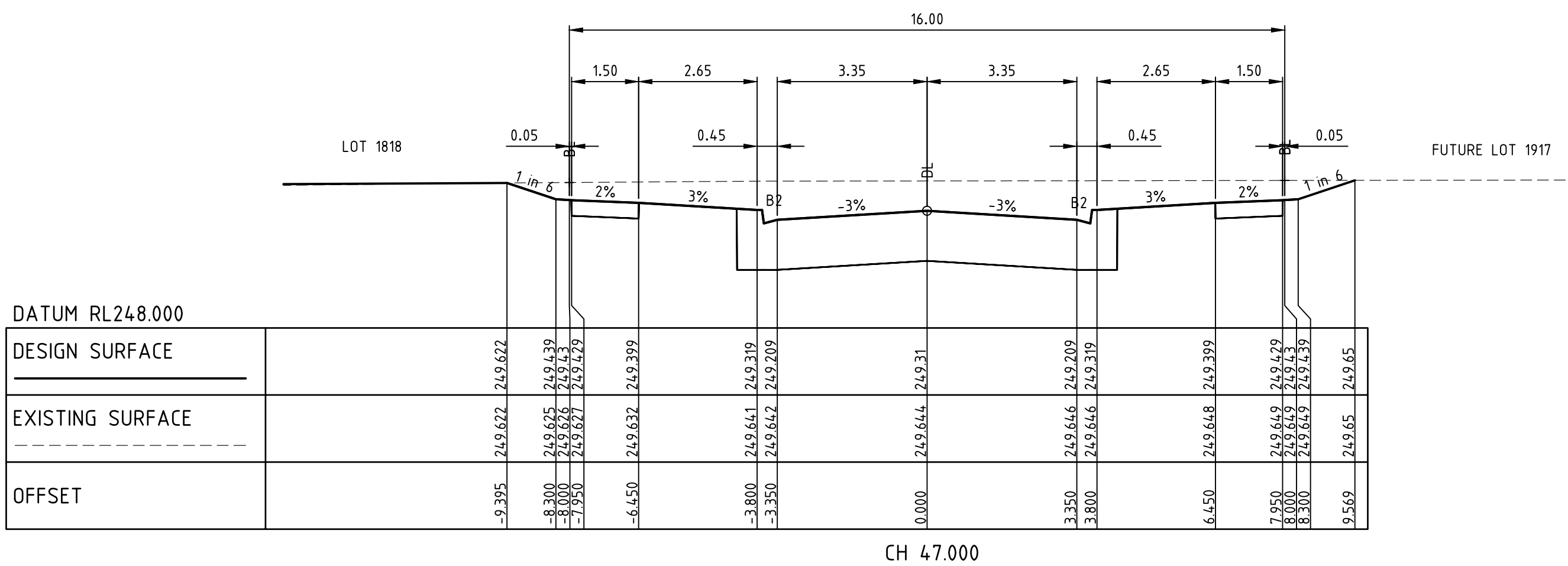
REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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Date/Time: Wed Aug 10, 2016 - 3:50pm --byron.shade--



BENDIGO STREET



NAPIER WAY

1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511063
Verified B.GORDON
Date 09/09/15
AN 162500
Audited T.OBOUHOFF
Date 31/01/16
AN 912851
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885132

LEGEND



DENOTES ENGINEERED FILL TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY GOLDER ASSOCIATES. ENGINEERING FILL TO BE APPROVED BY HUME CITY COUNCIL REFER TO DWG 11738TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.

AS CONSTRUCTED



Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200
VER: 1:50/1:100

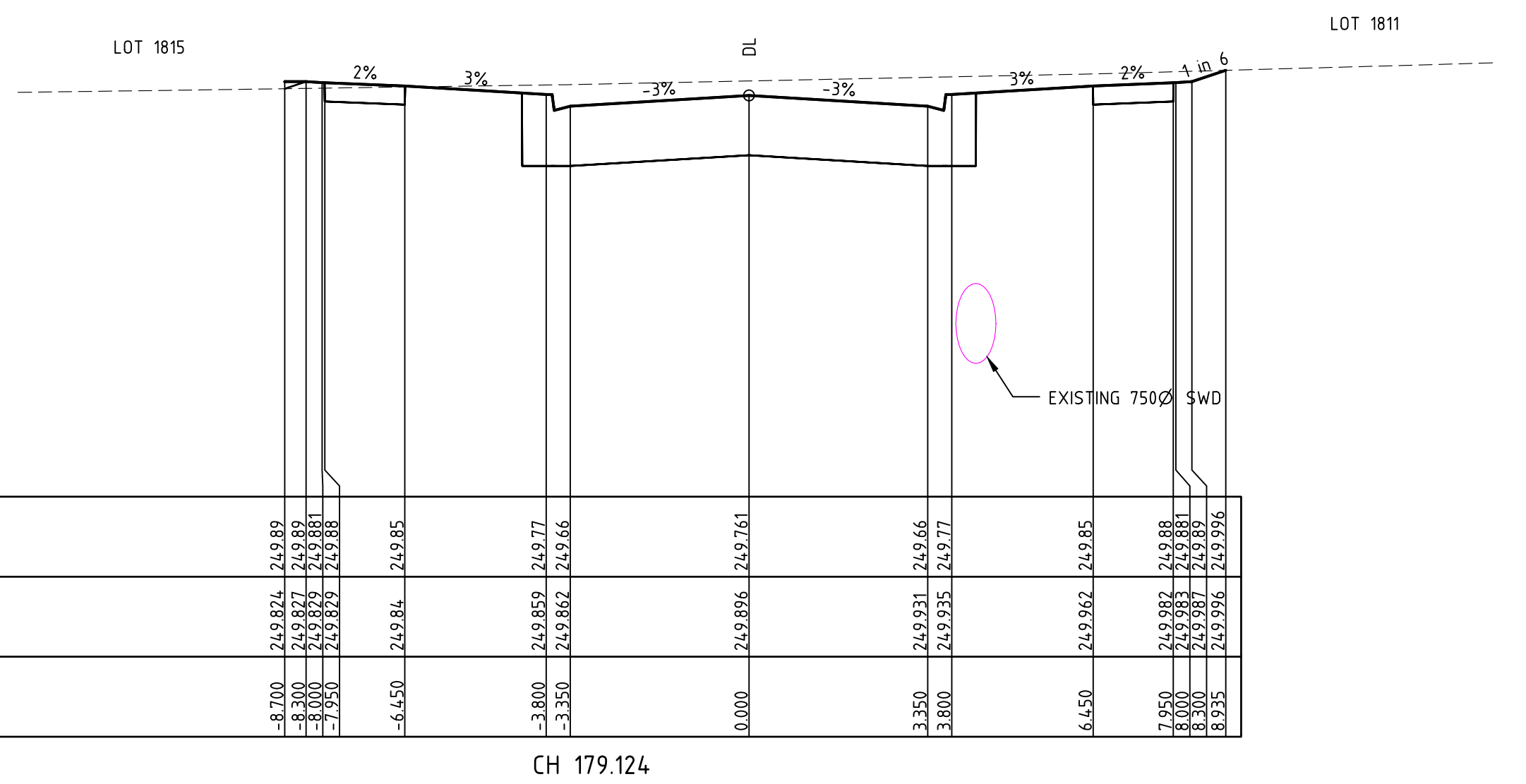
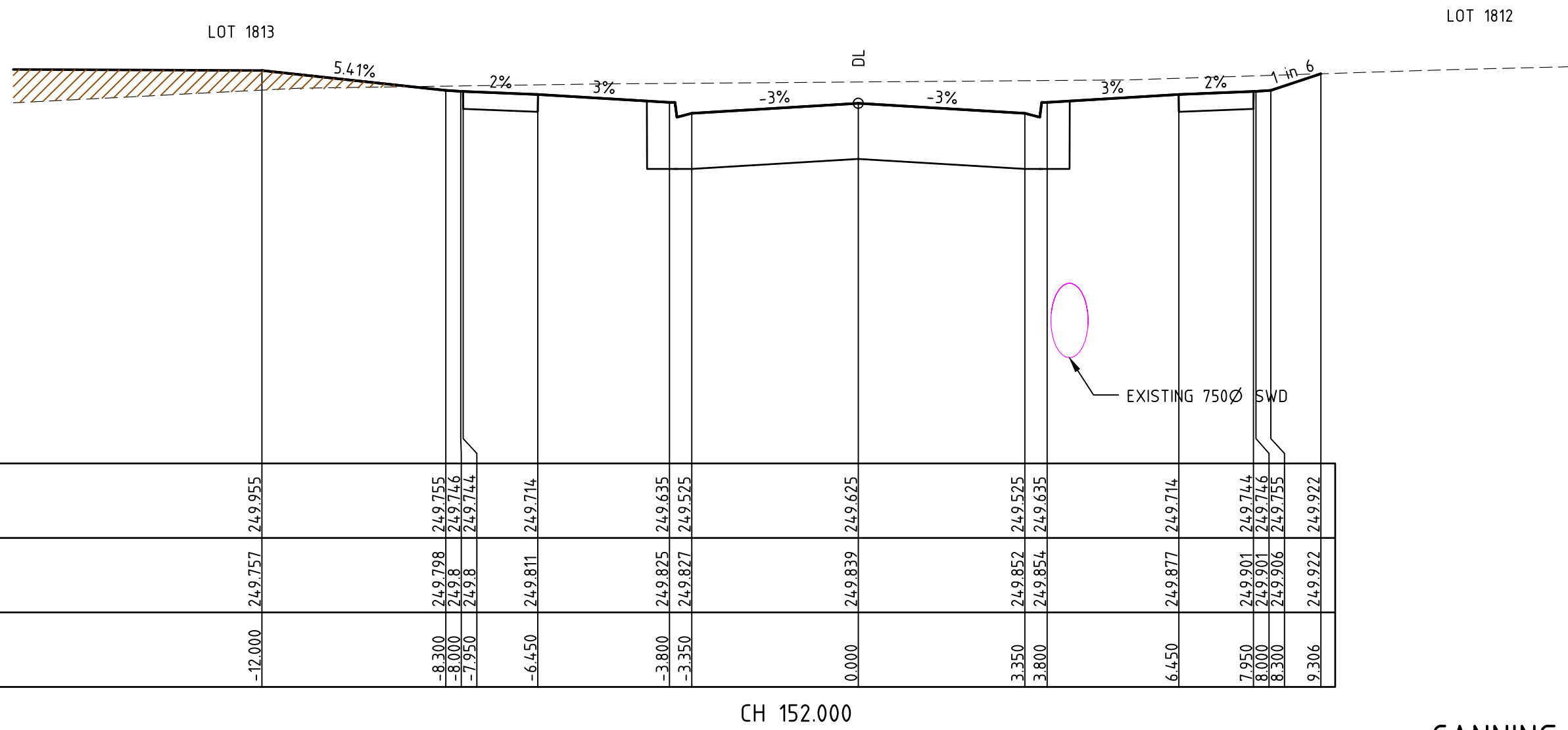
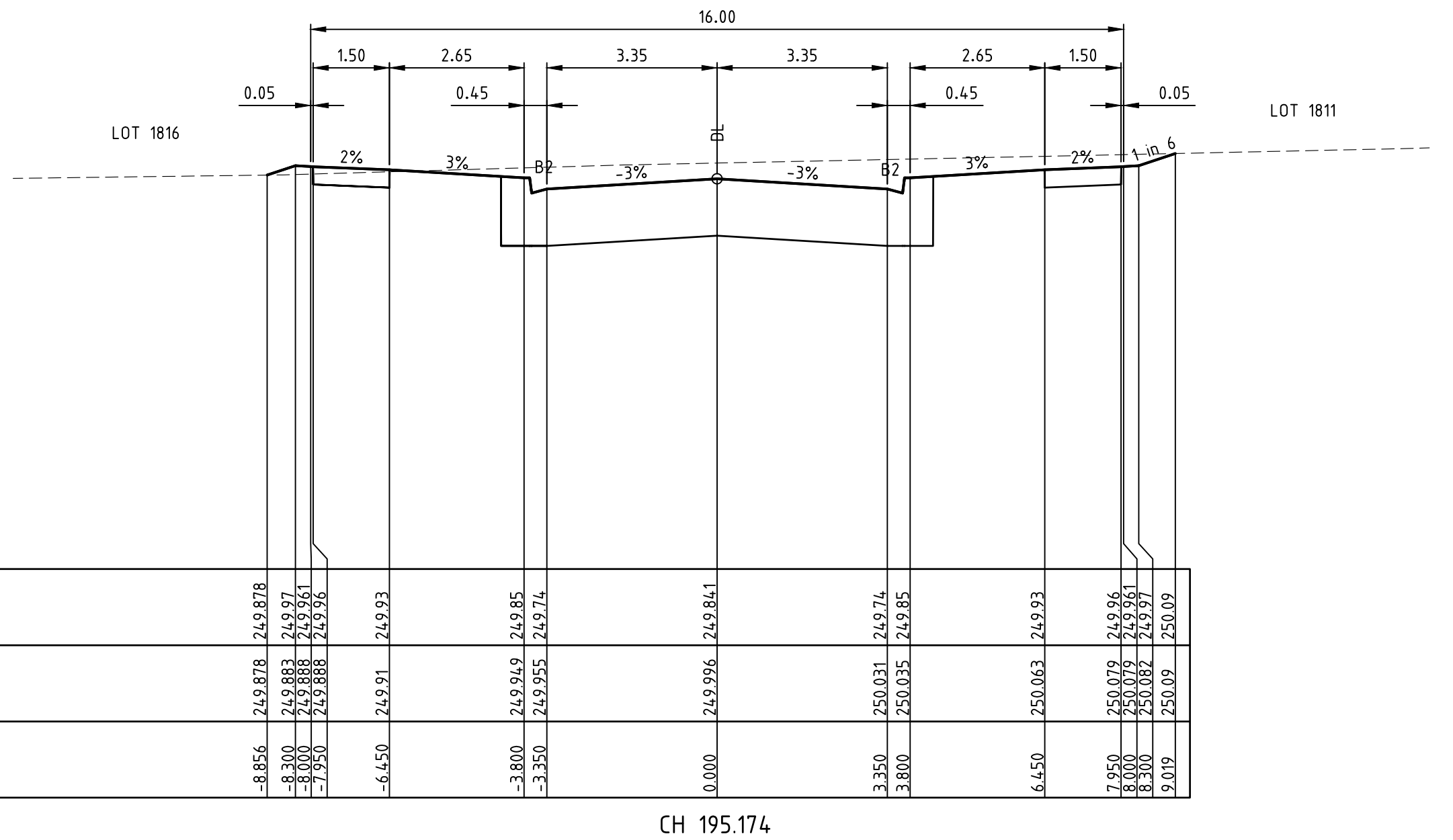
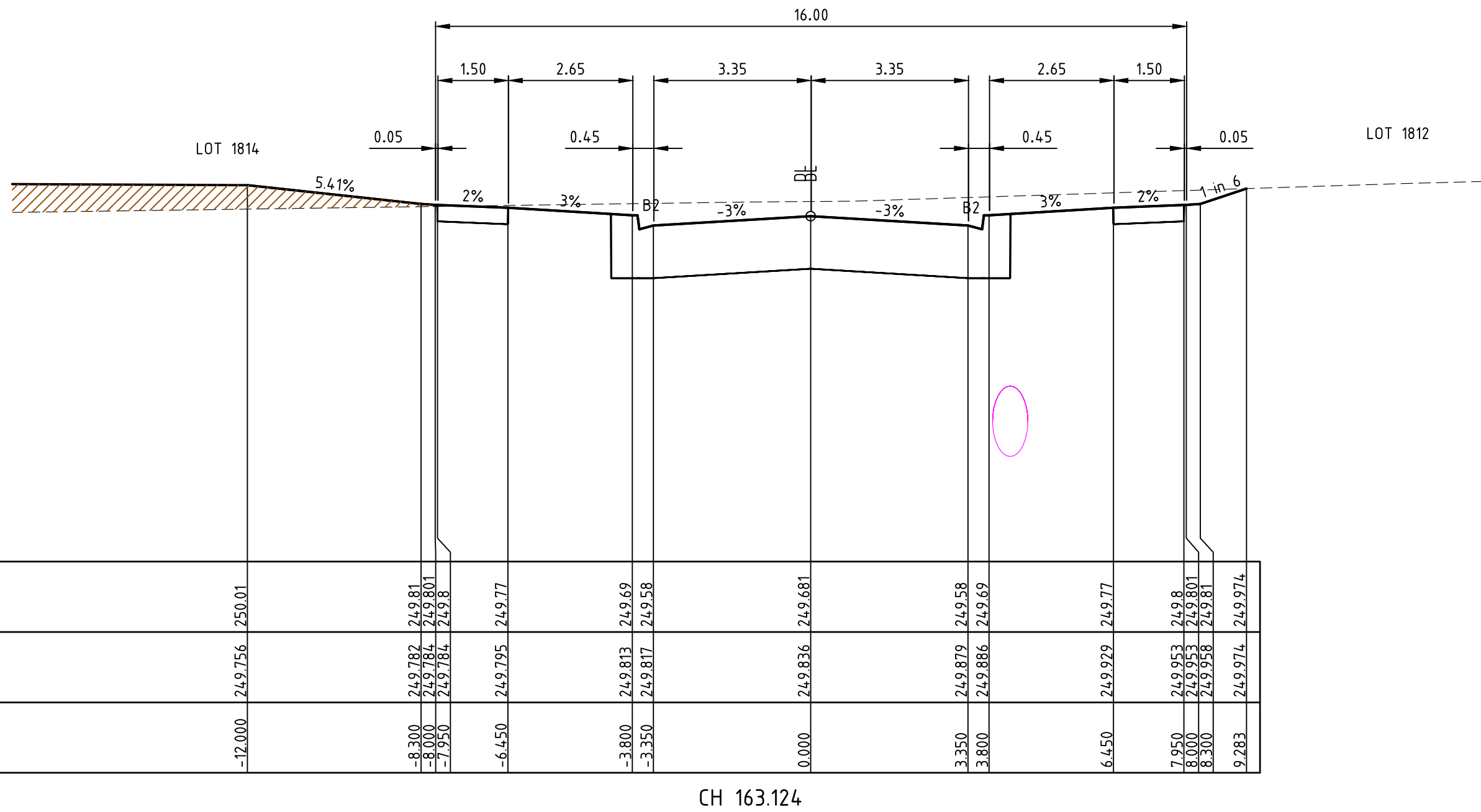
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
CROSS SECTIONS
SHEET 02 OF 05
Drawing No. 11738XS02 Rev 1
Sheet No. 13 AS CONSTRUCTED
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CANNING DRIVE

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511064
Verified B.GORDON
Date 09/09/15
AN 162501
Audited T.OBOUHOFF
Date 31/01/16
AN 912852
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885133

LEGEND



DENOTES ENGINEERED FILL TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY GOLDER ASSOCIATES. ENGINEERING FILL TO BE APPROVED BY HUME CITY COUNCIL REFER TO DWG 11738TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.

AS CONSTRUCTED

merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200
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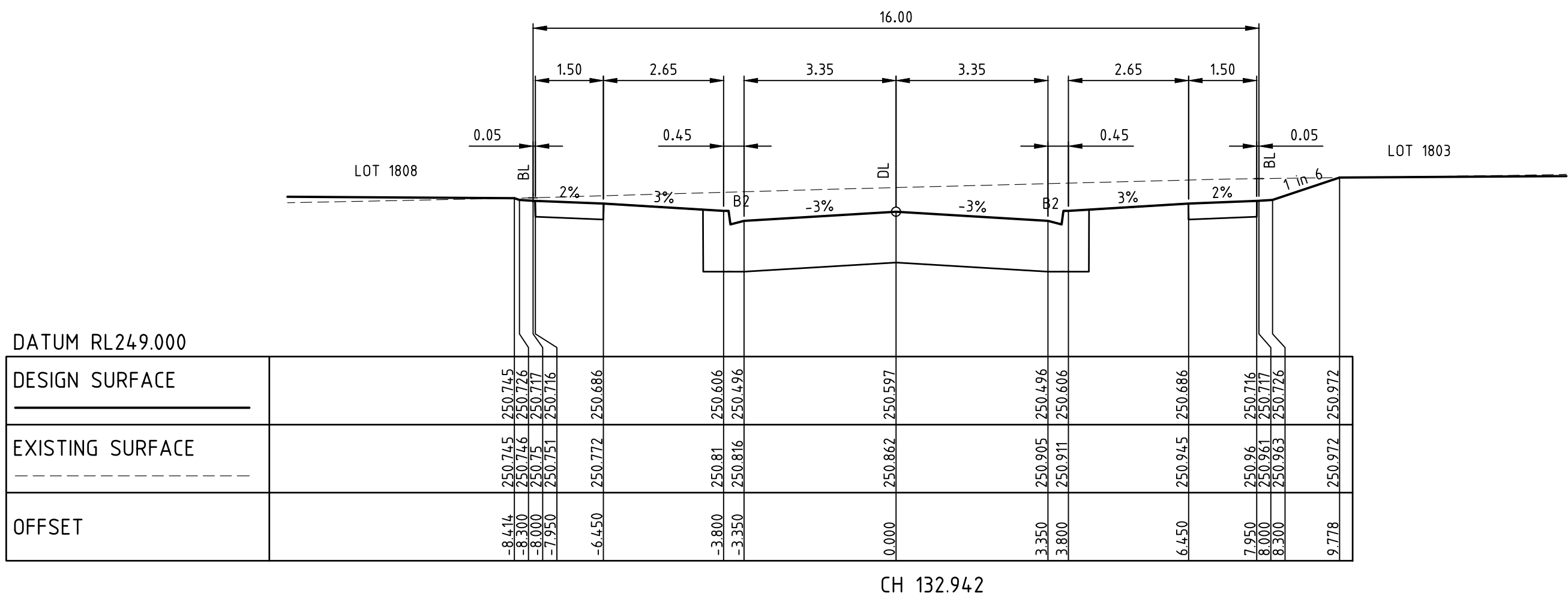
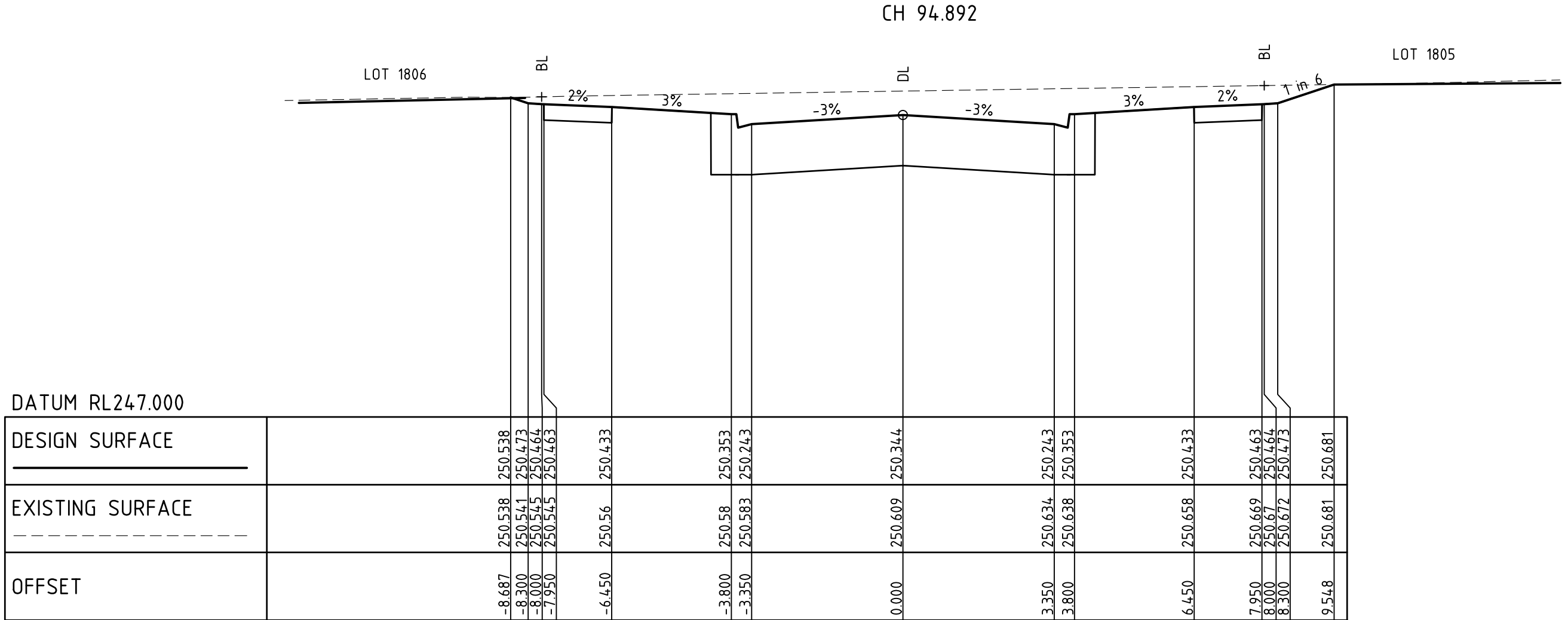
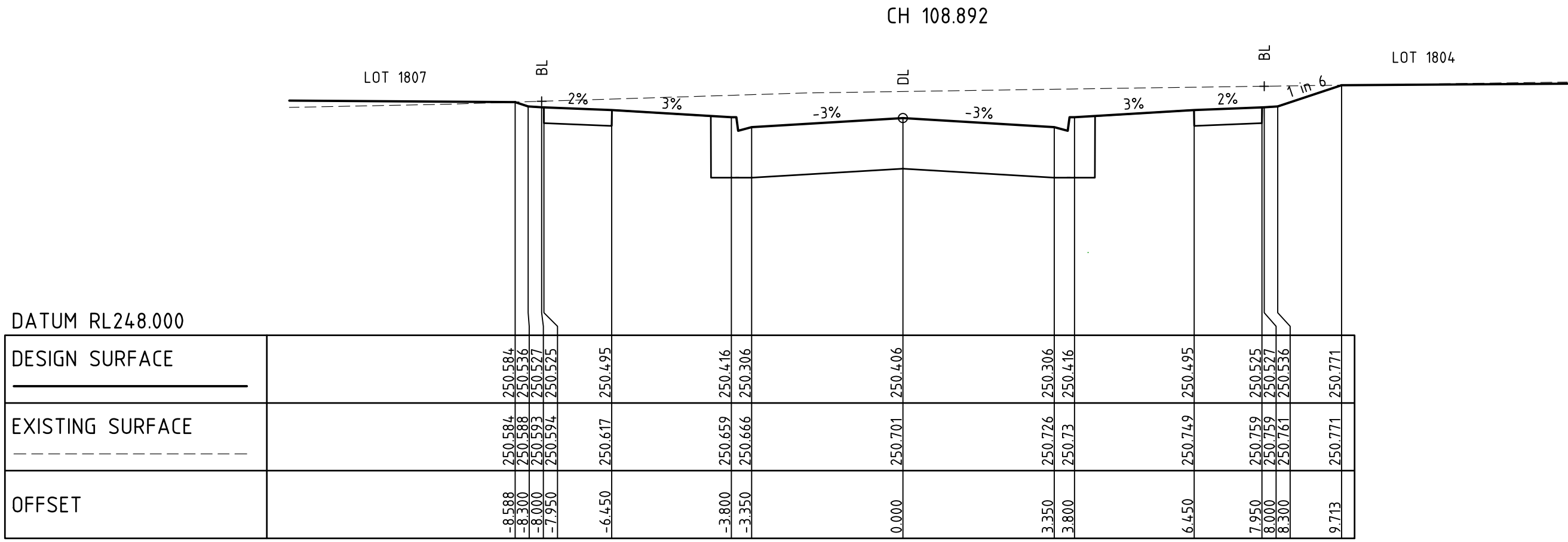
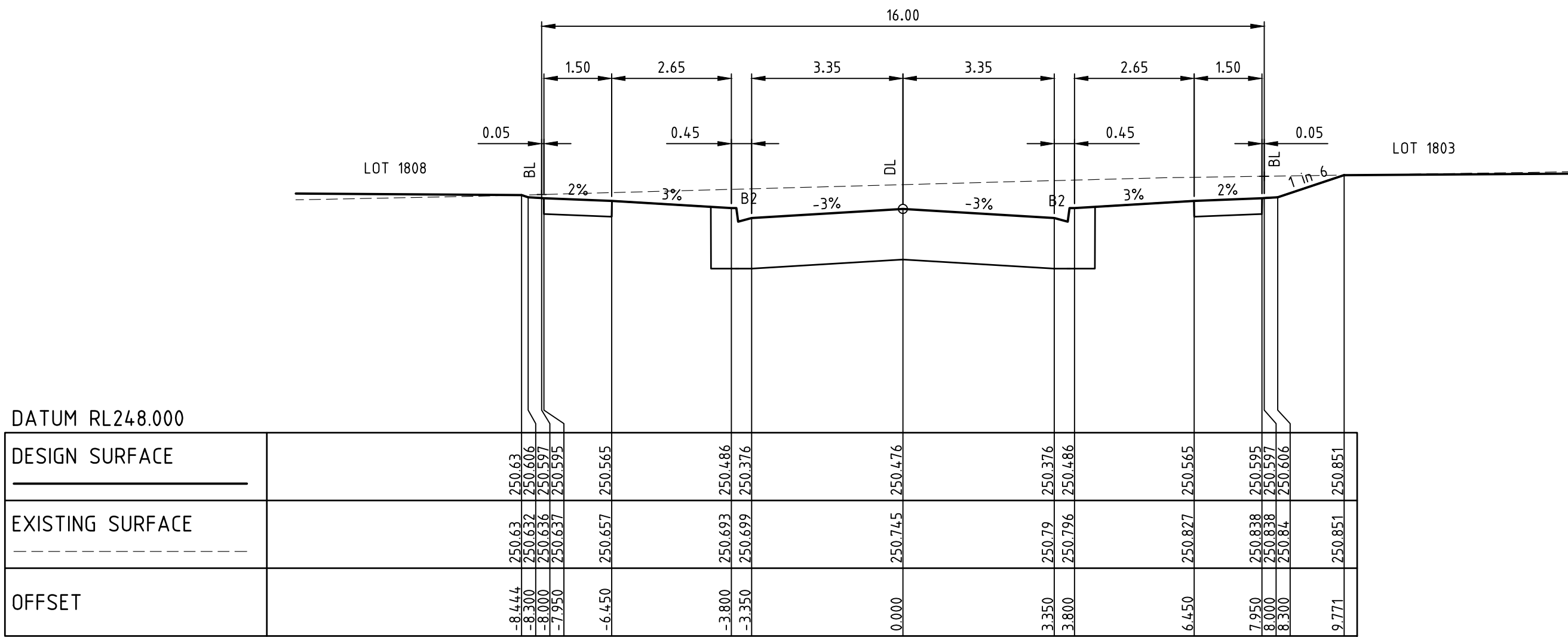
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
CROSS SECTIONS
SHEET 03 OF 05
Drawing No. 11738XS03 Rev 1
Sheet No. 14 AS CONSTRUCTED
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Date/Time: Wed Aug 10, 2016 - 3:50pm --byron.shade--



JOLIMONT AVENUE

AS CONSTRUCTED

1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511066
Verified B.GORDON
Date 09/09/15
AN 162503
Audited T.OBOUHOFF
Date 31/01/16
AN 912854
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885135

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200
VER: 1:50/1:100

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
CROSS SECTIONS
SHEET 05 OF 05
Drawing No. 11738XS05 Rev 1
AS CONSTRUCTED

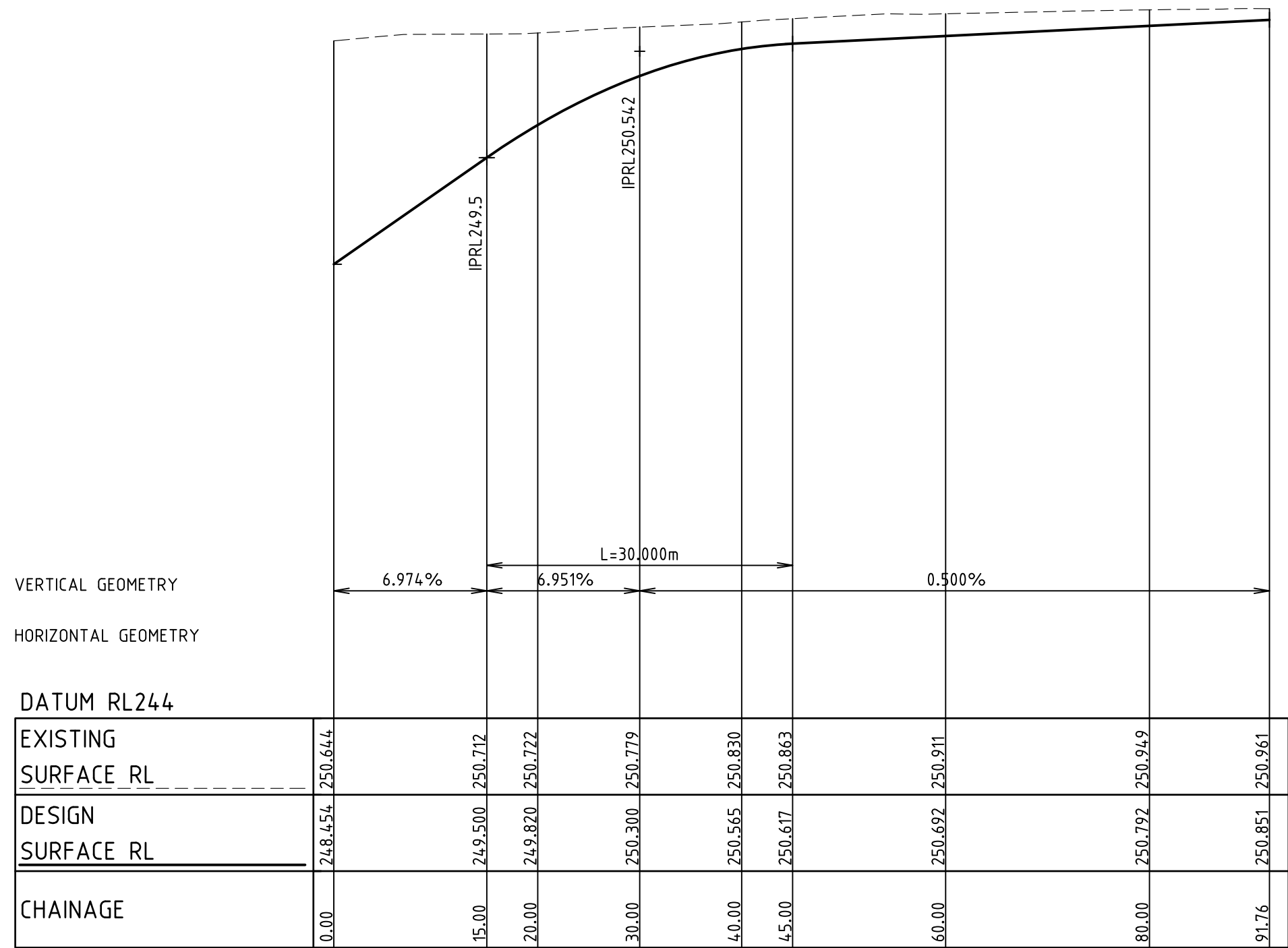
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Date/Time: Wed Aug 10, 2016 - 3:50pm ---byron.stade---

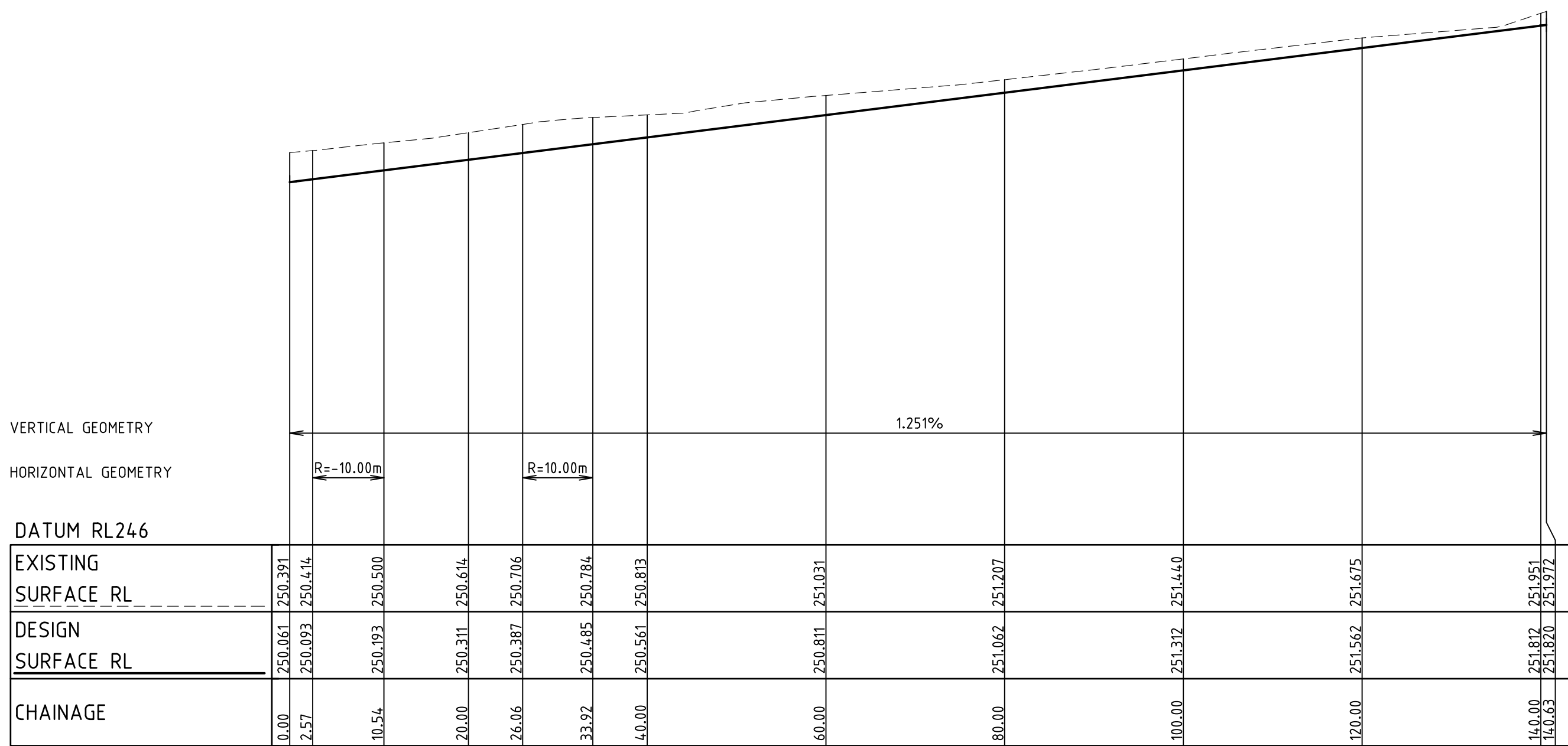


LONGITUDINAL SECTION OPEN EARTH DRAIN DESIGN LINE

SCALE: HOR 1:500
VER 1:10

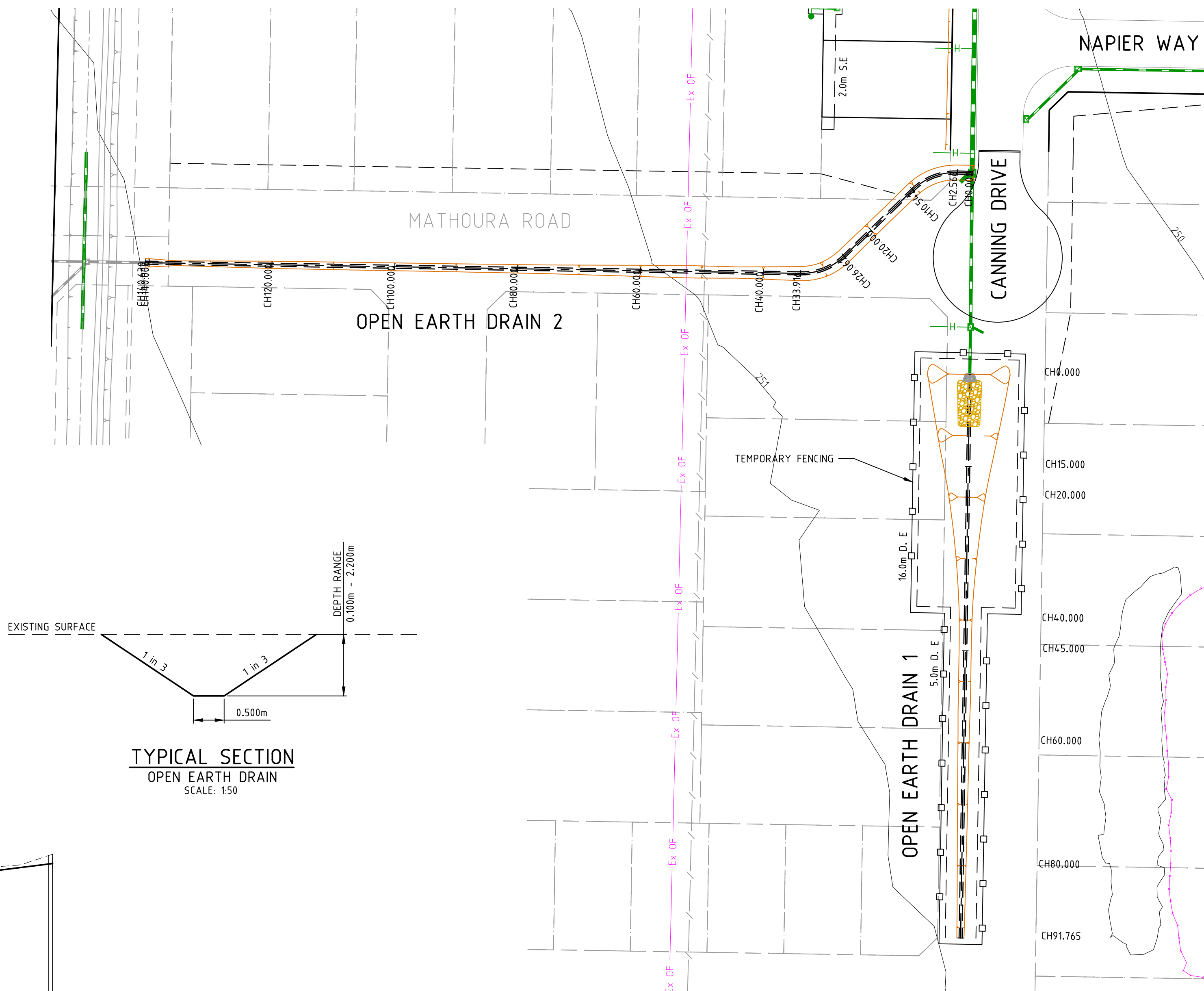
HORIZONTAL ALIGNMENT REPORT OPEN EARTH DRAIN 1

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	314592.304	5843805.046	248.454	187°03'10.00"	
STRAIGHT	20.000	314589.848	5843785.198	249.820	187°03'10.00"	
STRAIGHT	40.000	314587.392	5843765.349	250.565	187°03'10.00"	
STRAIGHT	60.000	314584.937	5843745.500	250.692	187°03'10.00"	
STRAIGHT	80.000	314582.481	5843725.652	250.792	187°03'10.00"	
STRAIGHT (END ALN)	91.765	314581.037	5843713.976	250.851	187°03'10.00"	



LONGITUDINAL SECTION OPEN EARTH DRAIN 2 DESIGN LINE

SCALE: HOR 1:500
VER 1:10



TYPICAL SECTION
OPEN EARTH DRAIN
SCALE: 1:50

PLAN

HORIZONTAL ALIGNMENT REPORT OPEN EARTH DRAIN 2

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	314596.329	5843837.584	250.061	277°45'07.63"	
TANGENT-CURVE	2.566	314593.786	5843837.930	250.093	277°45'07.63"	
CURVE	5.000	314591.359	5843837.963	250.123	263°48'31.67"	-10.000
CURVE	7.500	314588.933	5843837.387	250.155	249°29'05.47"	-10.000
CURVE	10.000	314586.725	5843836.229	250.186	235°09'39.26"	-10.000
CURVE-TANGENT	10.542	314586.288	5843835.907	250.193	232°03'10.00"	-10.000
STRAIGHT	20.000	314578.830	5843830.091	250.311	232°03'10.00"	
TANGENT-CURVE	26.062	314574.049	5843826.363	250.387	232°03'10.00"	
CURVE	27.500	314572.856	5843825.564	250.405	240°17'23.87"	10.000
CURVE	30.000	314570.553	5843824.607	250.436	254°36'50.07"	10.000
CURVE	32.500	314568.085	5843824.251	250.467	268°56'16.27"	10.000
CURVE-TANGENT	33.916	314566.672	5843824.325	250.485	277°03'10.00"	10.000
STRAIGHT	40.000	314560.635	5843825.072	250.561	277°03'10.00"	
STRAIGHT	60.000	314540.786	5843827.527	250.811	277°03'10.00"	
STRAIGHT	80.000	314520.937	5843829.983	251.062	277°03'10.00"	
STRAIGHT	100.000	314501.089	5843832.439	251.312	277°03'10.00"	
STRAIGHT	120.000	314481.240	5843834.894	251.562	277°03'10.00"	
STRAIGHT	140.000	314461.391	5843837.350	251.812	277°03'10.00"	
STRAIGHT (END ALN)	140.630	314460.766	5843837.427	251.820	277°03'10.00"	

AS CONSTRUCTED

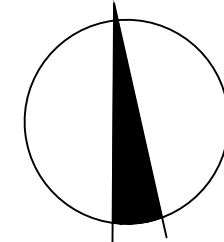
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REV	AMENDMENTS	DATE	APP'D.

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511077
Verified B.GORDON
Date 09/09/15
AN 162504
Audited T.OBOUHOFF
Date 31/01/16
AN 912855
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885136

- Ex OF — EXISTING OPTIC FIBRE
— Ex W — EXISTING WATER MAIN
— Ex G — EXISTING GAS MAIN
— Ex E — EXISTING ELECTRICAL CABLE
— Ex S — EXISTING SEWER MAIN & MANHOLE
— Ex T — EXISTING TELECOMM. CABLE AND PIT
— Ex V — EXISTING ELEC. POLE & O'HEAD LINES
— EXISTING STORMWATER DRAIN & PIT
— CONSTRUCTED PRE DEVELOPMENT
— EXISTING TREES TO BE REMOVED
— FS21.650
— FINISHED SURFACE LEVEL
— OPEN EARTH DRAIN (O.E.D.)
— BATTER

- LEGEND
- S — FUTURE SEWER MAIN
— S — SEWER MAIN AND MANHOLE
— S — STORMWATER DRAIN & PIT
— S — SW DRAIN & PIT CONSTRUCTED
IN PREVIOUS STAGES
— S — PROPERTY INLETS
— S — HOUSE DRAIN
— GC — GAS CONDUIT
— WATER CONDUIT
— RECYCLED WATER CONDUIT
— TELECOMM. CONDUIT
— PERMANENT SURVEY MARK

- W — WATER
— RW — RECYCLED WATER
— T — TELECOMMUNICATIONS
— E — ELECTRICITY
— G — GAS
— STREET NAME SIGN
— LOT GRADING ARROW
— ASPHALT PAVEMENT
— CONC FOOTPATH / DRIVEWAY
— LIMIT OF WORKS
— 155.0
— FINISHED SURFACE CONTOUR
— FILLING OVER 200mm



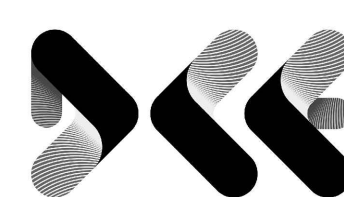
merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
OPEN EARTH DRAIN PLAN

Drawing No. 11738OED01 Rev 1
Sheet No. 17 AS CONSTRUCTED

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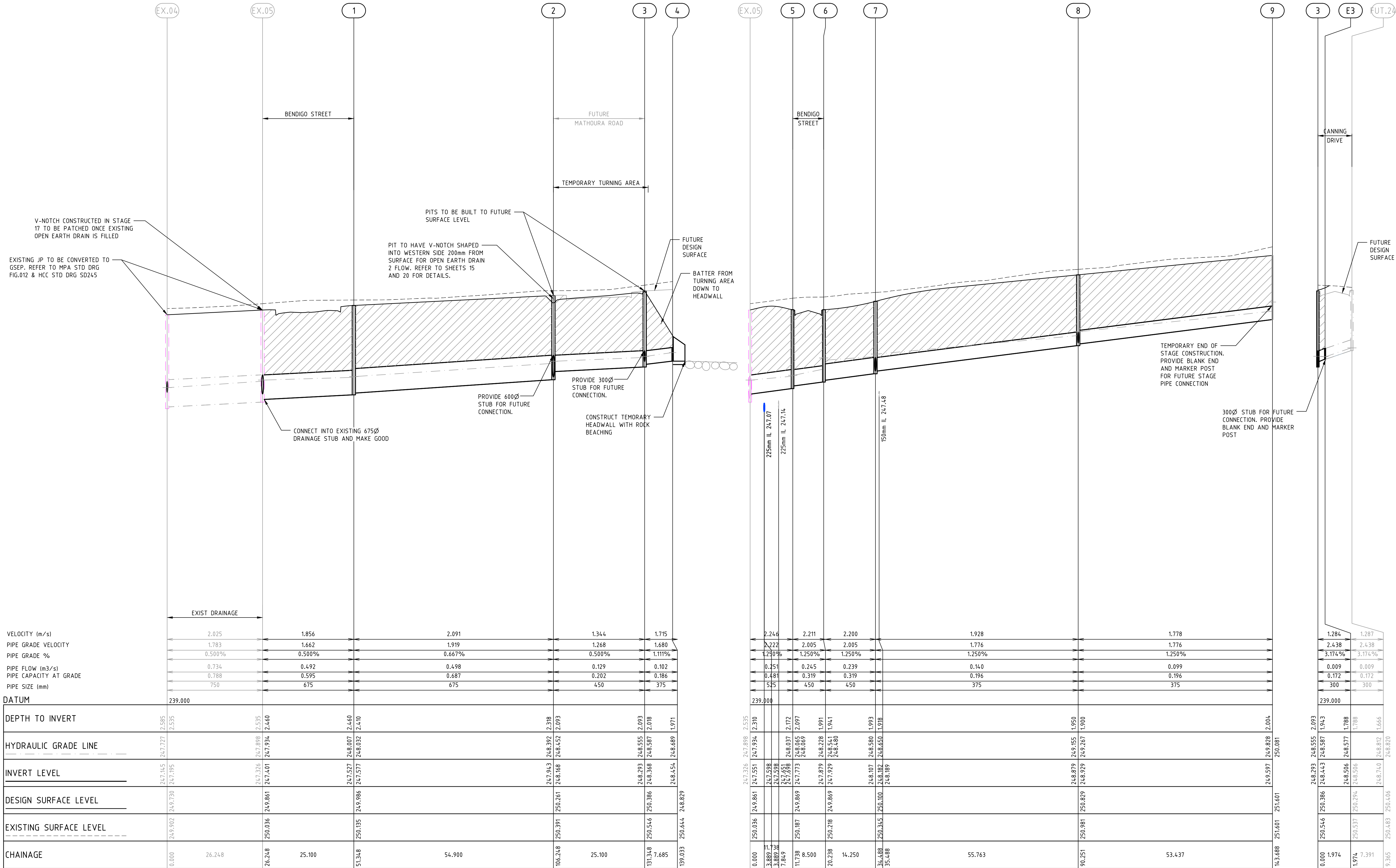


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Drawing File: \\resnet\lg-ada\design\ada\11700\11738-merrifield - project 1 - stage 18\road\RD\11738DR01.dwg - 11738DR01
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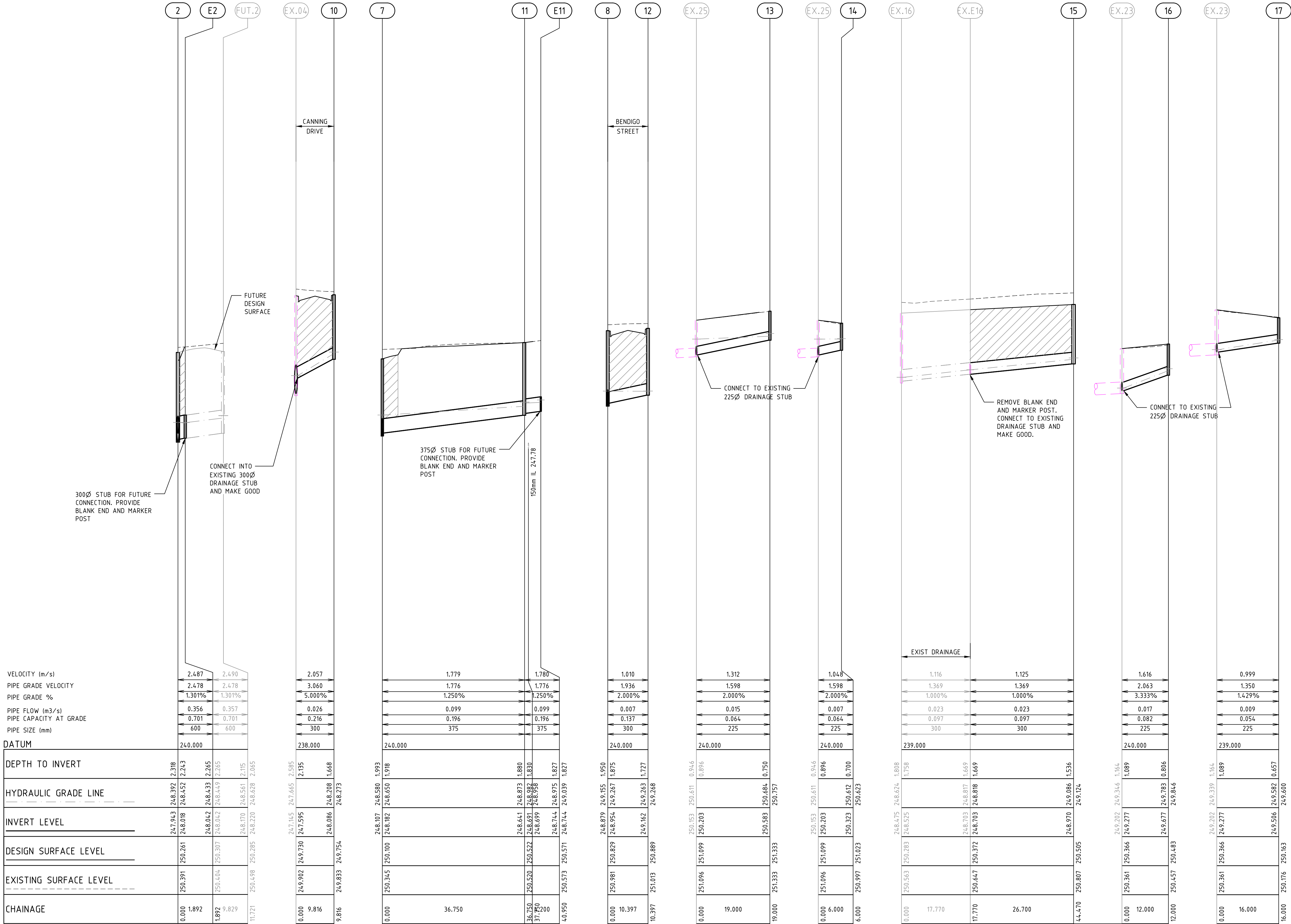
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

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MAB gpc
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Levels: AHD
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Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000
VER: 1:50/1:100

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
DRAINAGE LONGITUDINAL SECTIONS
SHEET 01 OF 03
Drawing No. 11738DR01 **Rev 1**
AS CONSTRUCTED
Sheet No. 18
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Audited T.OBOUHOFF
Date 31/01/16
AN 912857
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885138

LEGEND
DENOTES CRUSHED ROCK BACKFILL

AS CONSTRUCTED

merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000
VER: 1:50/1:100

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
DRAINAGE LONGITUDINAL SECTIONS
SHEET 02 OF 03
Drawing No. 11738DR02 Rev 1
AS CONSTRUCTED

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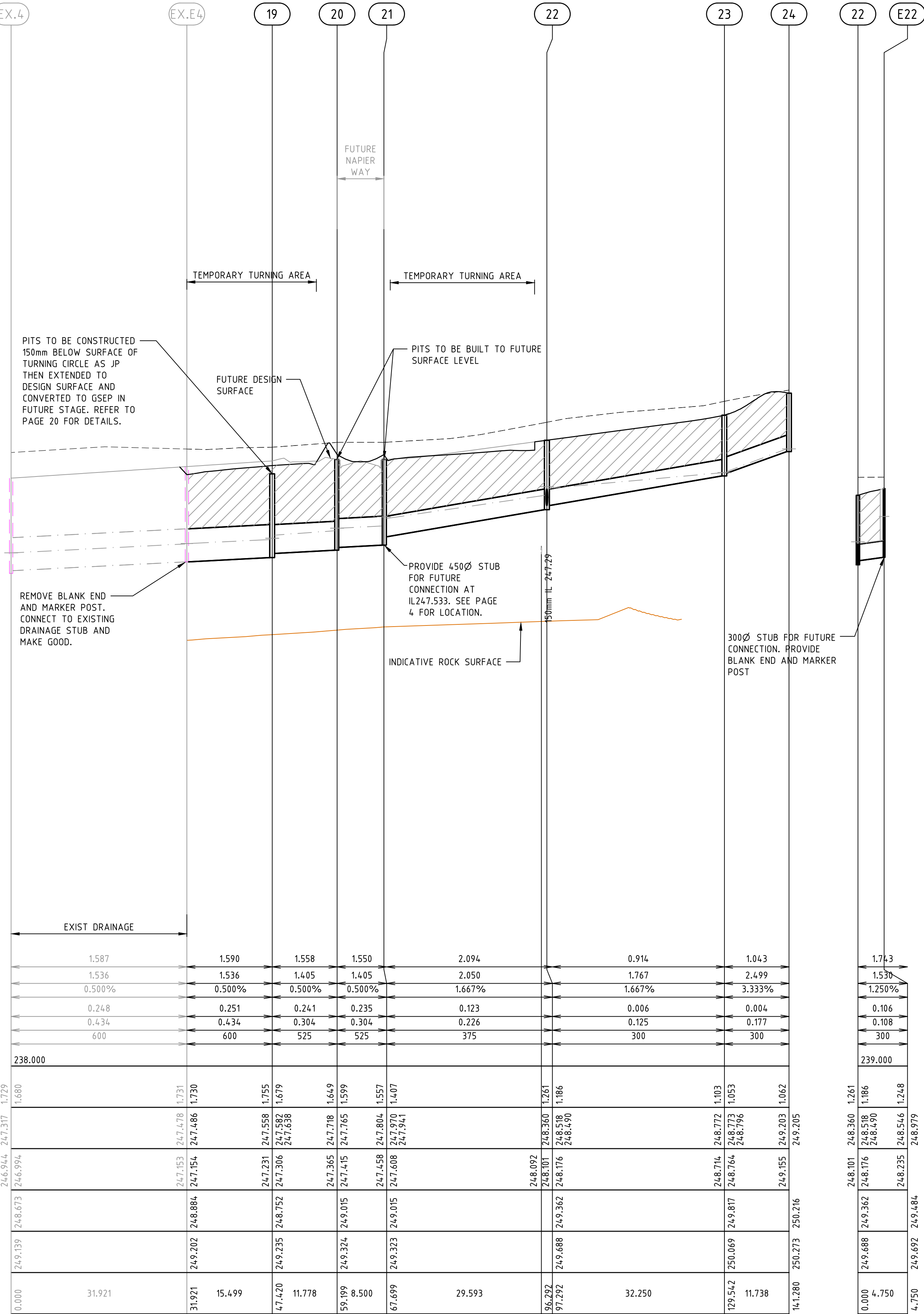
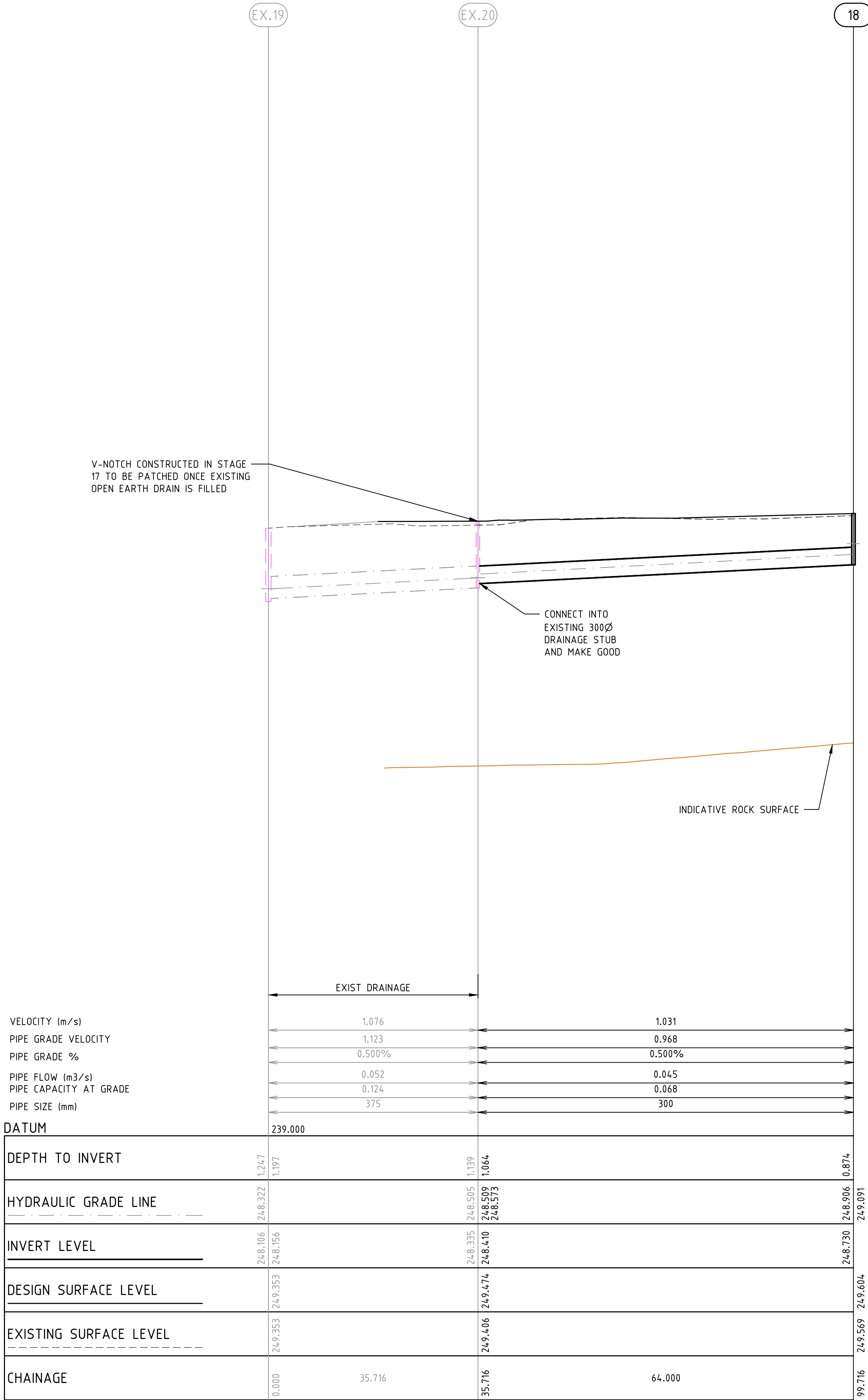
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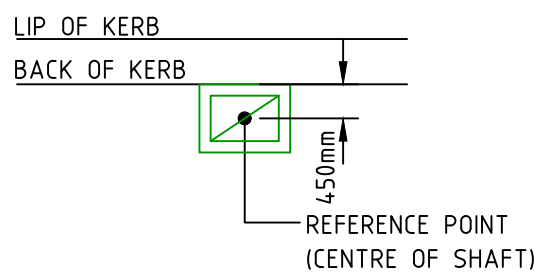
PIT		EASTING	NORTHING	INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE			WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
Ex.04	GSEP	314609.371	5843943.028	600	900	750	247.195			249.73	2.585	EXIST HAUNCHED JP TO BE CONVERTED TO GSEP. REFER TO MPA STD DRG FIG.012 & HCC STD DRG SD245.
Ex.05	GSEP	314606.152	5843916.978	600	900	675	247.401	750	247.326	249.861	2.535	EXIST HAUNCHED JP TO BE CONVERTED TO GSEP. REFER TO MPA STD DRG FIG.012 & HCC STD DRG SD245. PIT TO HAVE EXISTING V-NOTCH PATCHED ONCE TEMPORARY CUT-OFF DRAIN IS FILLED.
1	JP	314603.070	5843892.068	T600 B900	T900 B900	675	247.577	675	247.527	249.986	2.46	HAUNCHED GSEP. REFER TO MPA STD DRG FIG.012 & VICROADS SD 1021-1023
2	JP	314596.329	5843837.584	T600 B900	T900 B1100	450	248.168	675	247.943	250.261	2.318	HAUNCHED TEMP JP TO BE CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012 & HCC STD DRG SD245. PIT TO BUILT TO FUTURE SURFACE LEVEL WITH V-NOTCH 200mm FROM TOP OF PIT CUT IN FOR CUT-OFF DRAIN FLOW.
3	JP	314593.247	5843812.674	T600 B900	T900 B900	375	248.368	450	248.293	250.386	2.093	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012 & HCC SD245. PIT TO BE BUILT TO FUTURE SURFACE LEVEL
4	EW	314592.304	5843805.046					375	248.454	248.829	0.375	INLET STRUCTURE REF MPA STA DRG FIG.019
E3	EP	314594.926	5843811.637			300	248.506	300	248.506	250.294	1.788	TEMPORARY END. PROVIDE END CAP AND MARKER POST
E2	EP	314594.837	5843836.420			600	248.042	600	248.042	250.307	2.265	TEMPORARY END. PROVIDE END CAP AND MARKER POST
5	GSEP	314596.896	5843909.760	T600 B900	T900 B900	450	247.773	525	247.698	249.869	2.172	HAUNCHED GSEP. REFER TO MPA STD DRG FIG.012 & VICROADS SD 1021-1023
6	GSEP	314595.852	5843901.325	T600 B900	T900 B900	450	247.929	450	247.879	249.869	1.991	HAUNCHED GSEP. REFER TO MPA STD DRG FIG.012 & VICROADS SD 1021-1023
7	GSEP	314581.710	5843903.074	600	900	375 375	248.182 248.182	450	248.107	250.1	1.993	REFER TO MPA STD DRG FIG.012
8	GSEP	314526.368	5843909.921	600	900	375 300	248.929 248.954	375	248.879	250.829	1.95	REFER TO MPA STD DRG FIG.012
9	EP	314473.336	5843916.482					375	249.597	251.601	2.004	TEMPORARY END. PROVIDE END CAP AND MARKER POST
10	GSEP	314617.207	5843937.117	600	900			300	248.086	249.754	1.668	REFER TO MPA STD DRG FIG.012
11	JP	314577.198	5843866.602	600	900	375	248.691	375	248.641	250.522	1.88	REFER TO MPA STD DRG FIG.014
E11	EP	314573.029	5843867.118			375	248.744	375	248.744	250.571	1.827	TEMPORARY END. PROVIDE END CAP AND MARKER POST
12	GSEP	314521.471	5843919.092	600	900			300	249.162	250.889	1.727	REFER TO MPA STD DRG FIG.012
Ex.25	JP	314507.928	5843951.752	600	600	225	250.203			251.099	0.946	EXIST JP REFER TO MPA STD DRG FIG.014
13	JP	314489.072	5843954.083	600	600			225	250.583	251.333	0.75	REFER TO MPA STD DRG FIG.014
14	JP	314513.883	5843951.016	600	600			225	250.323	251.023	0.7	REFER TO MPA STD DRG FIG.014
Ex.E16	EP	314536.737	5843974.890			300	248.703	300	248.703	250.372	1.669	EXISTING TEMPORARY END. END CAP AND MARKER POST TO BE REMOVED AND NEW PIPE CONNECTED.
15	GSEP	314533.459	5843948.392	600	900			300	248.97	250.505	1.536	REFER TO MPA STD DRG FIG.012
Ex.23	JP	314572.928	5843947.741	600	900	225	249.277			250.366	1.164	REFER TO MPA STD DRG FIG.014
16	JP	314561.018	5843949.214	600	600			225	249.677	250.483	0.806	REFER TO MPA STD DRG FIG.014
Ex.23	JP	314572.928	5843947.741	600	900	225	249.277			250.366	1.164	REFER TO MPA STD DRG FIG.014
17	JP	314588.807	5843945.776	600	600			225	249.506	250.163	0.657	REFER TO MPA STD DRG FIG.014
Ex.20	JP	314658.570	5843941.175	600	900	300	248.41	375	248.335	249.474	1.139	REFER TO MPA STD DRG FIG.014. PIT TO HAVE EXISTING V-NOTCH PATCHED ONCE TEMPORARY CUT-OFF DRAIN IS FILLED.
18	JP	314650.711	5843877.660	600	600			300	248.73	249.604	0.874	REFER TO MPA STD DRG FIG.014
Ex.E4	EP	314688.744	5843876.027			600	247.154	600	247.153	248.884	1.731	EXISTING TEMPORARY END. END CAP AND MARKER POST TO BE REMOVED AND NEW PIPE CONNECTED.
19	JP	314686.846	5843860.644	T600 B900	T900 B1000	525	247.306	600	247.231	248.752	1.521	HAUNCHED TEMP. JP TO BE CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012 & HCC STD DRG SD245. PIT TO BE CONSTRUCTED 150mm BELOW SURFACE AND COVERED WITH CRUSHED ROCK THEN EXTENDED TO DESIGN SURFACE IN FUTURE.
20	JP	314677.533	5843853.433	T600 B900	T900 B1000	525	247.415	525	247.365	249.015	1.649	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012 & HCC SD245. PIT TO BE BUILT TO FUTURE SURFACE LEVEL
21	JP	314676.489	5843844.997	T600 B900	T900 B900	375	247.608	525	247.458	249.015	1.557	HAUNCHED PIT - TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012 & HCC SD245. PIT TO BE BUILT TO FUTURE SURFACE LEVEL
22	GSEP	314647.120	5843848.631	600	900	300 300	248.176 248.176	375	248.101	249.362	1.261	REFER TO MPA STD DRG FIG.012
23	GSEP	314615.114	5843852.591	600	900	300	248.764	300	248.714	249.817	1.103	REFER TO MPA STD DRG FIG.012
24	GSEP	314605.858	5843845.373	600	900			300	249.155	250.216	1.062	REFER TO MPA STD DRG FIG.012
E22	EP	314646.537	5843843.917					300	248.235	249.484	1.248	TEMPORARY END. PROVIDE END CAP AND MARKER POST
CUL1	EW	314463.683	5843936.493			900x300	251.045			251.345	0.3	BOX CULVERT TO FOLLOW EXISTING CENTRELINE OF OPEN-EARTH DRAIN
CUL2	EW	314459.935	5843907.937					900x300	251.18	251.48	0.3	BOX CULVERT TO FOLLOW EXISTING CENTRELINE OF OPEN-EARTH DRAIN

NOTES:

- EASTING, NORTHING SETOUT TO CENTRE OF PIT COVER SHAFT.
- SETOUT LEVEL TO PIT COVER LEVEL.
- EASTING, NORTHING ENDWALL SETOUT POINTS QUOTED TO PIPE BASE CENTRE.
- ALL PIT COVERS TO BE IN ACCORDANCE TO GROWTH AREAS AUTHORITY STD FIGURE 012.
- STEP IRONS REQUIRED FOR ALL PITS GREATER THAN 900mm IN DEPTH.
- PIT FLOOR TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROPS LESS THAN 50mm.
- ALL DRAINAGE WORKS ARE TO BE CONSTRUCTED TO GROWTH AREA AUTHORITY (GAA) SPECIFICATIONS.
- PIT BASE TO BE SHAPED WITH MASS CONCRETE FOR SMOOTH HYDRAULIC FLOW.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC UNLESS OTHERWISE SHOWN. ALL PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MAY BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS.
- ALL HAUNCHED PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HUMES CITY COUNCIL STD. DRG. SD245.

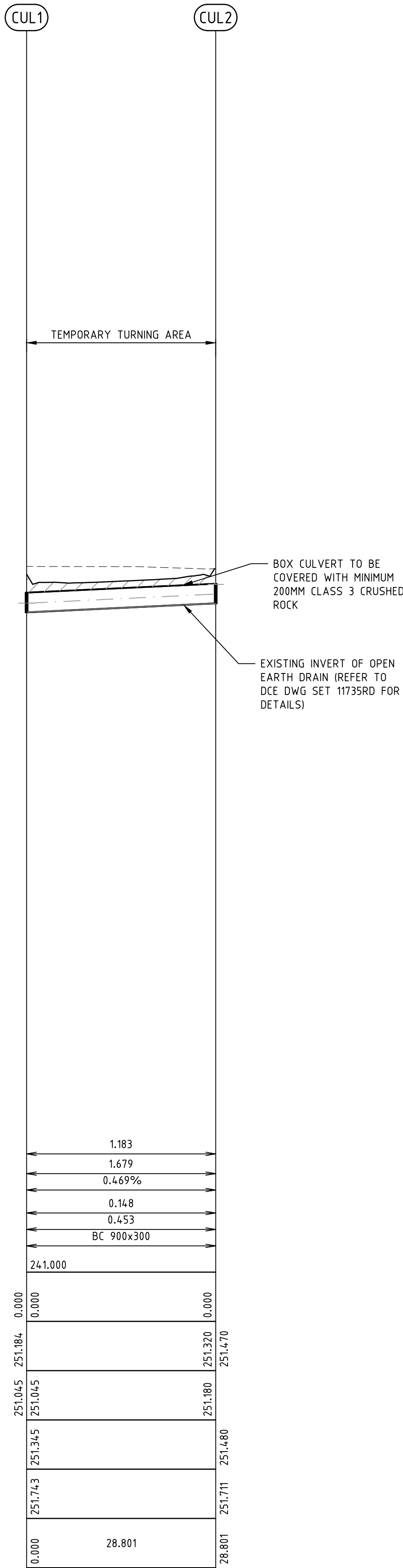
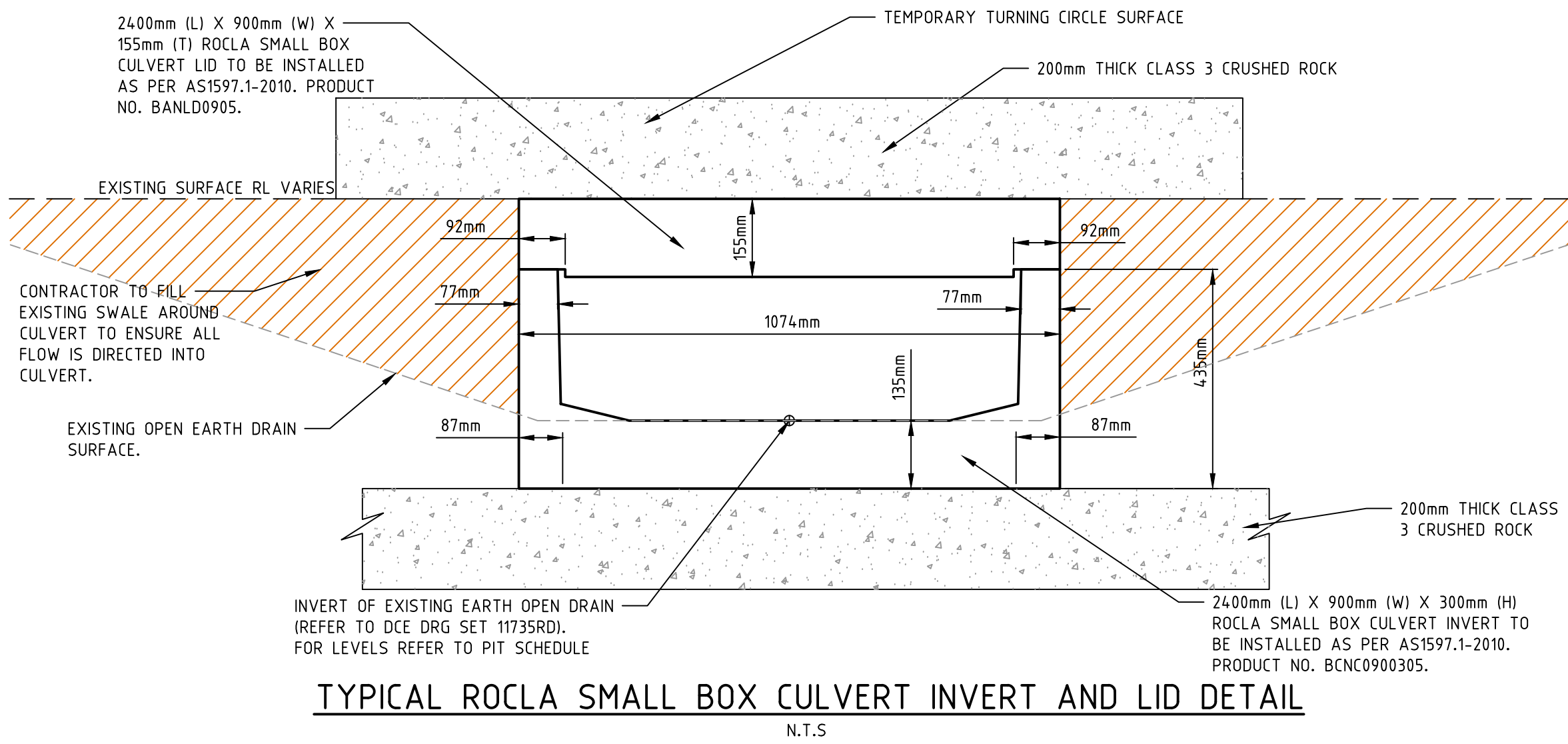
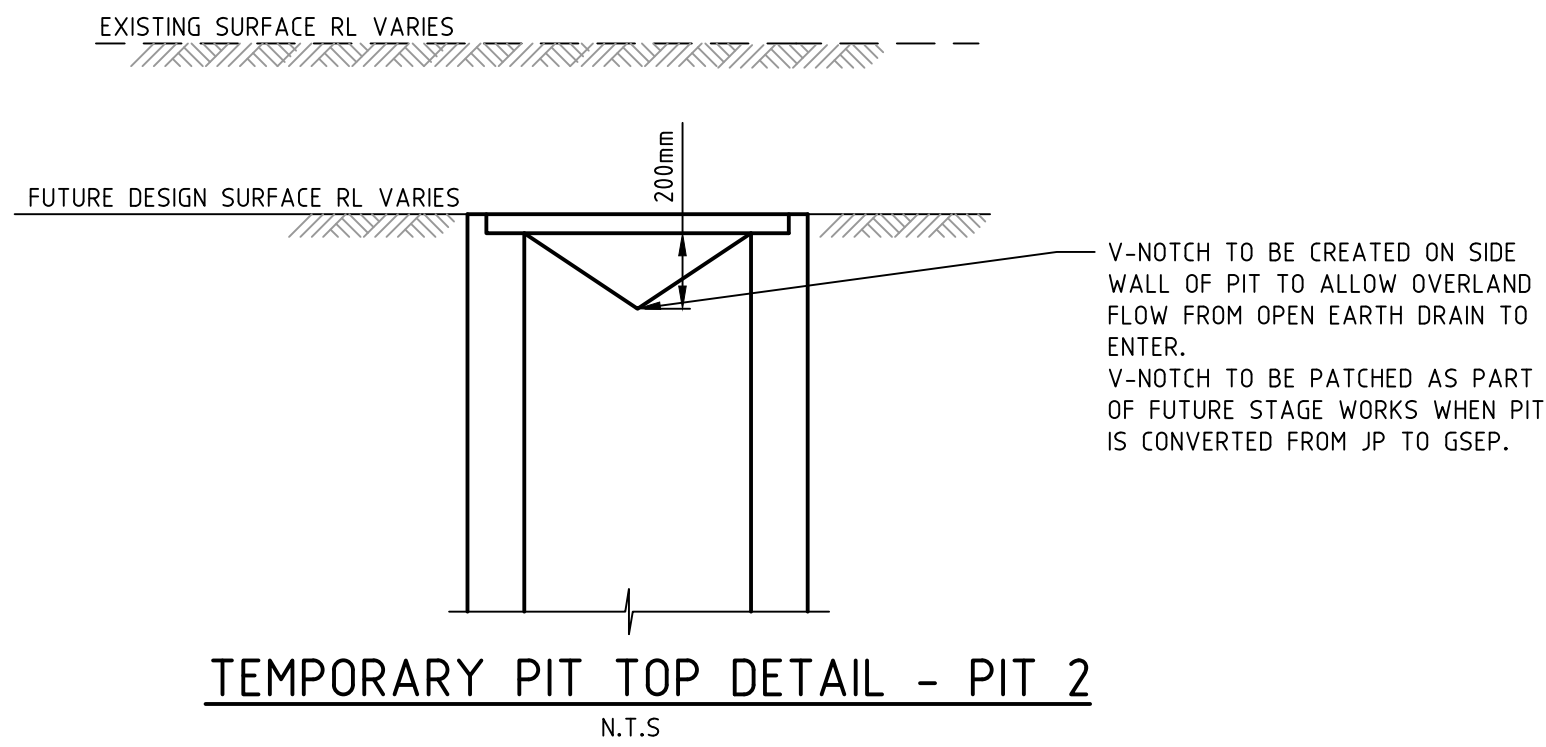
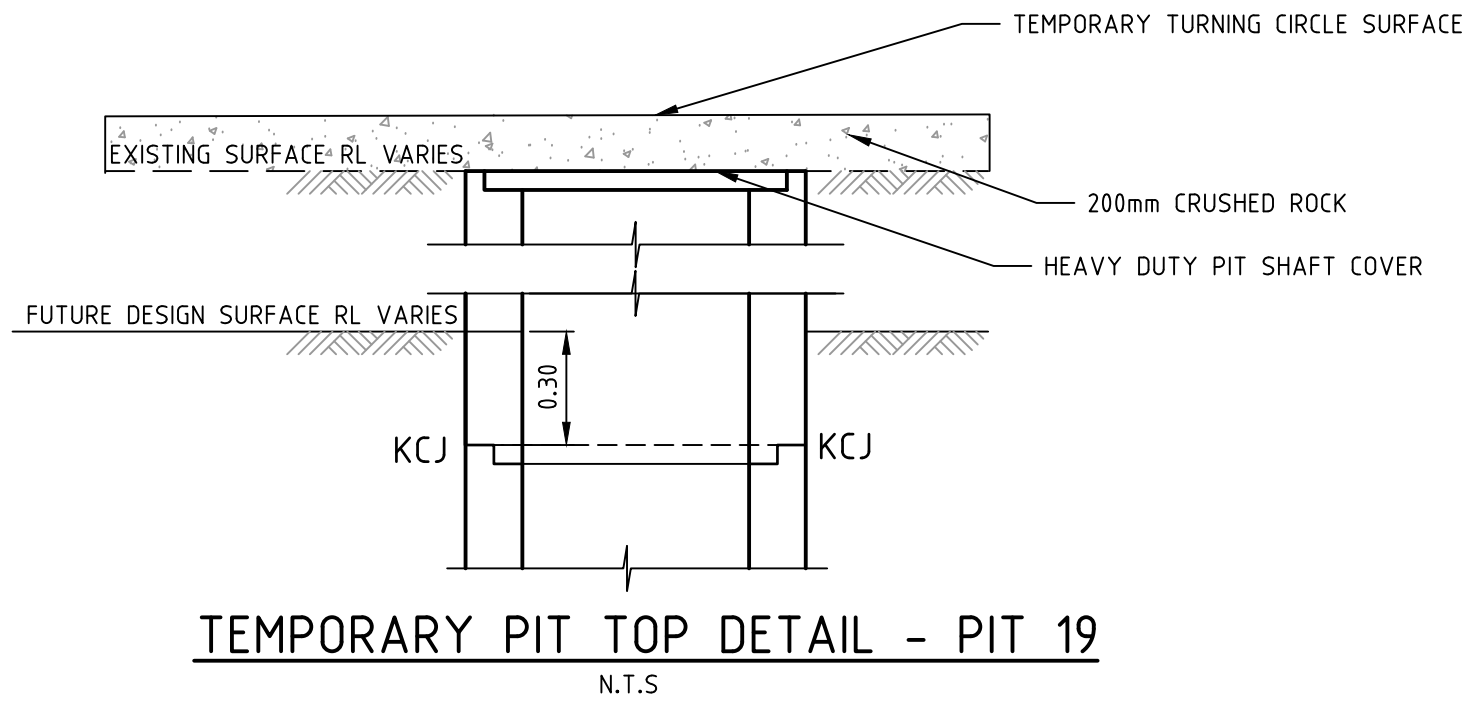
KEY:

- GSEP = GRATED SIDE ENTRY PIT
- JP = JUNCTION PIT
- EW = ENDWALL
- EX = EXISTING PIT
- E = TEMPORARY END OF PIPE (FUTURE STAGE CONNECTION)
- F = FUTURE PIT
- PP = PIPE TO PIPE CONNECTION
- TP = PIPE TANGENT POINT (FOR CURVED SECTIONS)
- T = TOP INTERNAL PIT DIMENSION
- B = BOTTOM INTERNAL PIT DIMENSION (HAUNCHED)



PIT SETOUT POINT
SCALE 1:100

WARNING:
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

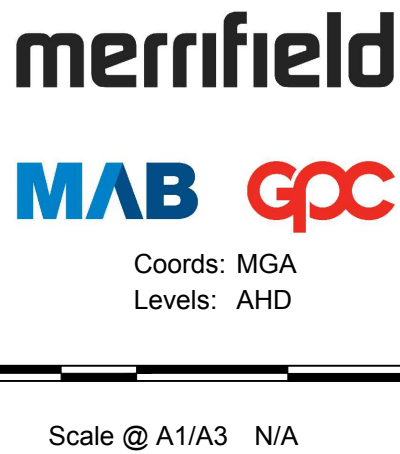


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Date 09/09/15
AN 162508
Audited T.OBOUHOFF
Date 31/01/16
AN 912859
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885140

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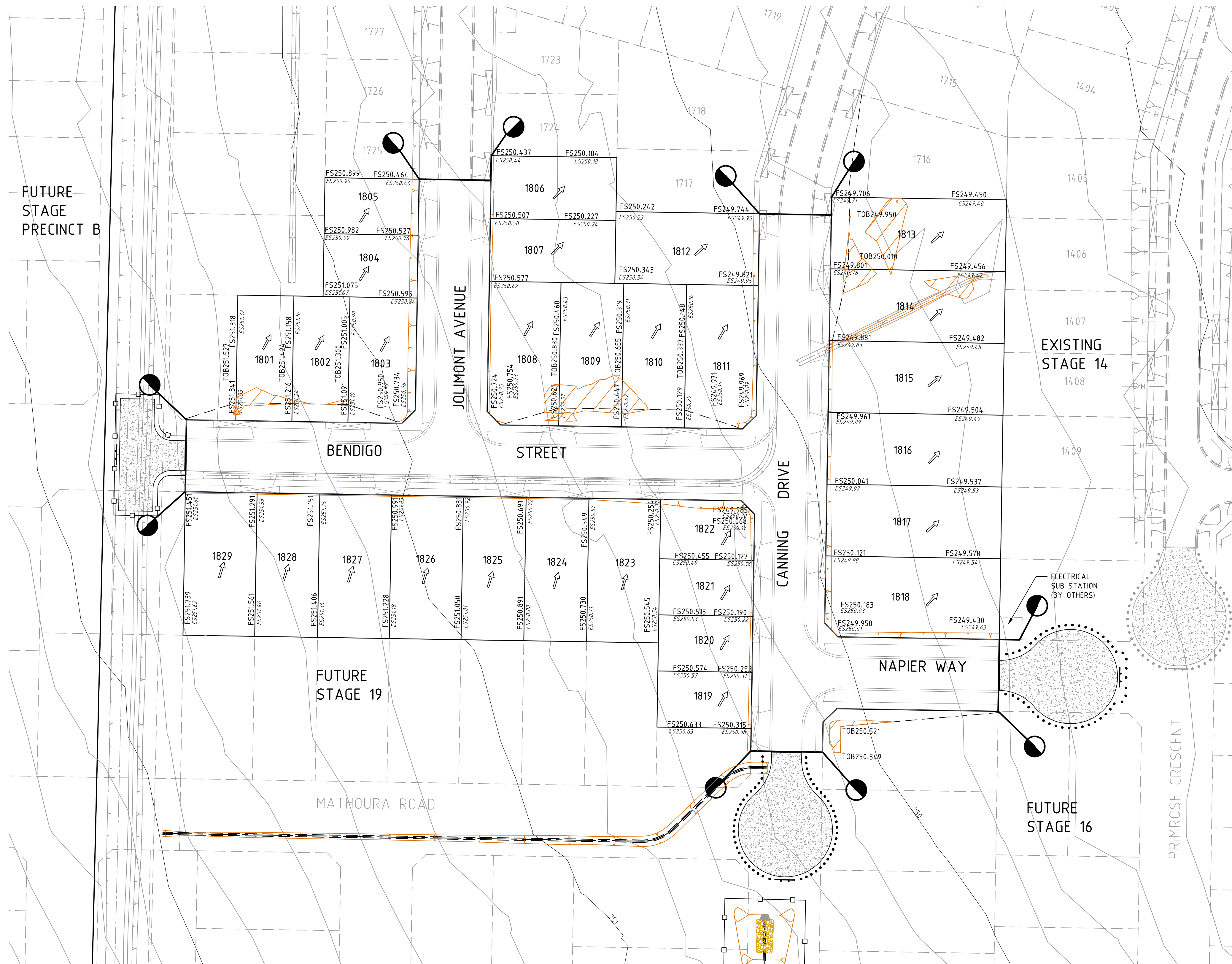


MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
DRAINAGE PIT SCHEDULE AND PIT DETAILS

Drawing No. 11738DR04 Rev 1
Sheet No. 21 AS CONSTRUCTED
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WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

FILL PLAN NOTES

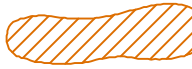
THIS PLAN SHOWS DETAILS OF WORKS AFFECTING THE NATURAL SURFACE OF THE LAND WITHIN THE SUBDIVISION WHICH HAVE BEEN CARRIED OUT OR ARE PROPOSED TO BE CARRIED OUT PRIOR TO REGISTRATION OF THE PLAN OF SUBDIVISION, BEING FILL PLACED ON THE LAND TO THE EXTENT AND DEPTH SHOWN ON THIS PLAN.

THIS PLAN DOES NOT SHOW ANY OTHER FILL WHICH MAY HAVE BEEN PLACED ON THE LAND PRIOR TO THE CIVIL WORKS BEING UNDERTAKEN.

THIS PLAN HAS BEEN PREPARED FOR THE PURPOSE OF CONSTRUCTING SUBDIVISIONAL WORKS AND IS NOT A RECORD OF 'AS BUILT DETAILS'.

FILLING SHOWN LESS THAN 200mm DEEP IS GRADED OR SPREAD OVER ALLOTMENTS TO CORRECT MINOR SURFACE IRREGULARITIES SUCH AS FURROWS ETC AND LOT GRADING.

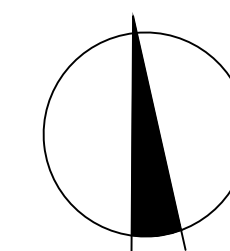
IRRESPECTIVE OF THE DEPTH OF FILLING FOUNDATIONS MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH A SOIL CLASSIFICATION AND REPORT PREPARED FOR THE PURPOSE AND IN ACCORDANCE WITH THE APPROPRIATE BUILDING REGULATIONS.

THE AREA MARKED THUS  ON THIS PLAN INDICATES FILL DEEPER THAN 200mm PLACED ON ALLOTMENTS.

THE EXTENT OF AND DEPTH OF FILL MUST BE CONFIRMED BY A PROPER GEOTECHNICAL INVESTIGATION BY AN EXPERIENCED PRACTITIONER.

LEGEND
← LOT GRADING ARROW

AS CONSTRUCTED



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MAB gpc

Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
FILL PLAN

Drawing No. 11738FP01 **Rev 1**
Sheet No. 23 **AS CONSTRUCTED**

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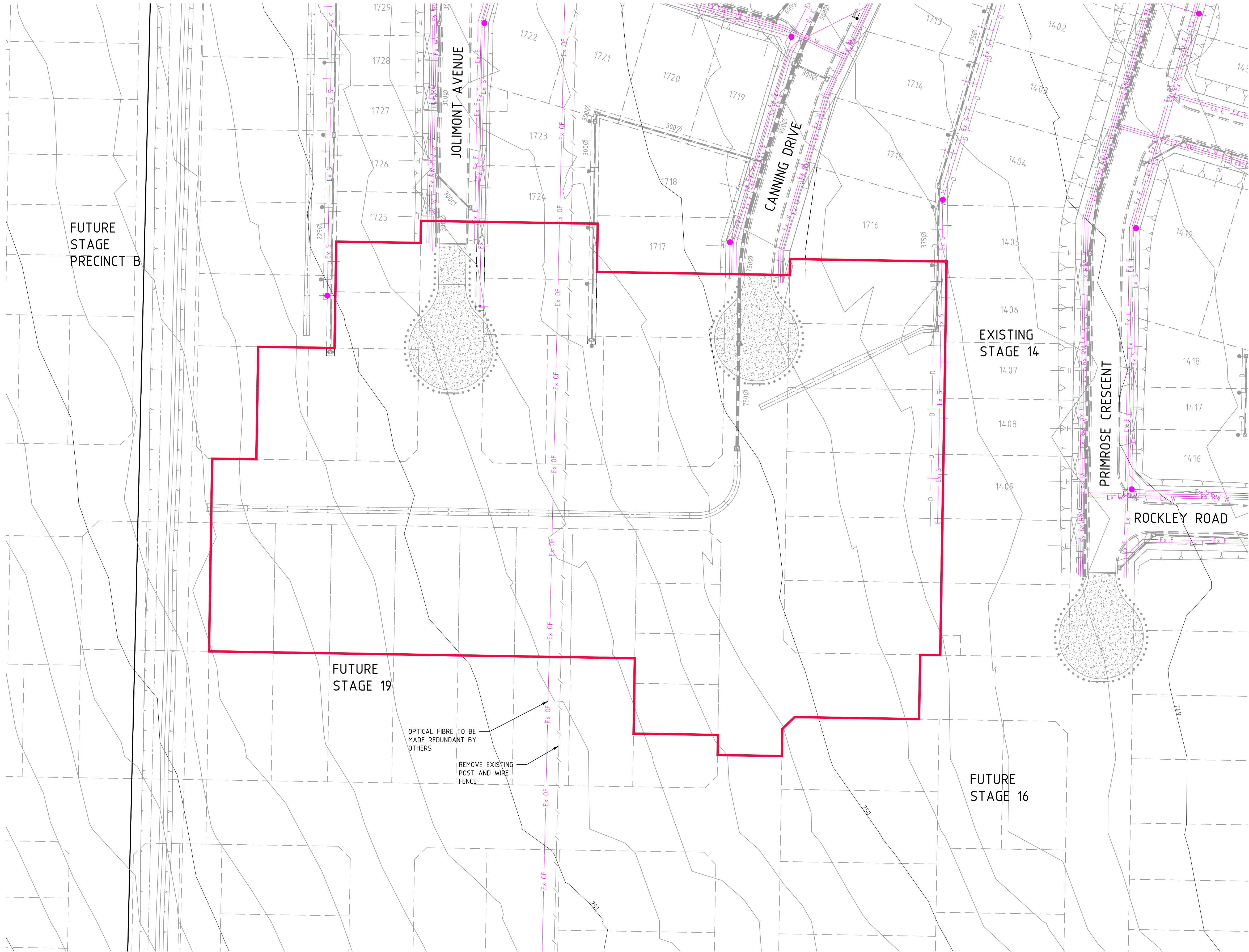
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn M.CAPALDO
Date 03/09/15
AN 1451045
Designed K.PAGE
Date 10/07/15
AN 1511071
Verified B.GORDON
Date 09/09/15
AN 162509
Audited T.OBOUHOFF
Date 31/01/16
AN 912861
Approved T.LIAKOPOULOS
Date 03/02/16
AN 885143

Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

Drawing File: \\reserv\lg-adda\design\adda\11700\11738-merrifield - precinct 1 - stage 18\adda\11738EF01.dwg - 11738EF01
Date/Time: Wed Aug 10, 2016 - 3:51 pm --byron.shade--



AS CONSTRUCTED

WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE, THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

WARNING
NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

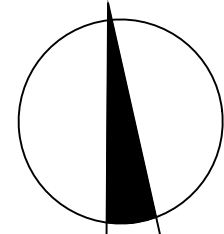
1	AS CONSTRUCTED	09/08/16	TL
0	CONSTRUCTION ISSUE	03/02/16	TL
REV	AMENDMENTS	DATE	APP'D.

Drawn M.CAPALDO
Date: 03/09/15
AN 1451045
Designed K.PAGE
Date: 10/07/15
AN 1511072
Verified B.GORDON
Date: 09/09/15
AN 162510
Audited T.OBOUHOFF
Date: 31/01/16
AN 912862
Approved T.LIAKOPOULOS
Date: 03/02/16
AN 885143

LEGEND

- Ex OF — EXISTING OPTIC FIBRE
- Ex W — EXISTING WATER MAIN
- Ex G — EXISTING GAS MAIN
- Ex E — EXISTING ELECTRICAL CABLE
- Ex S — EXISTING SEWER MAIN & MANHOLE
- Ex T — EXISTING TELECOMM. CABLE AND PIT
- V — EXISTING ELEC. POLE & O'HEAD LINES
- — EXISTING STORMWATER DRAIN & PIT
- — CONSTRUCTED PRE DEVELOPMENT

Bosco Jonson Pty Ltd
A.B.N 95 282 532 642
P.O. Box 5075, South Melbourne, Vic 3205
16 Eastern Road South Melbourne
Vic 3205 Australia DX 20524 Emerald Hill
Tel 03) 9699 1400 Fax 03) 9699 5992



merrifield
MAB gpc

Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 18
EXISTING FEATURES PLAN

Drawing No. 11738EF01 Rev 1
Sheet No. 24 **AS CONSTRUCTED**
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