

MERRIFIELD DEVELOPMENT

STAGE 13

DONNYBROOK ROAD, MICKLEHAM

HUME CITY COUNCIL

FOR

merrifield



CIVIL DRAWINGS

ROAD AND DRAINAGE

AS CONSTRUCTED

DCE REF : 11733

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Date/Time: Fri Apr 22, 2016 - 11:33am -- ByronShade --

HUME CITY COUNCIL GENERAL NOTES:

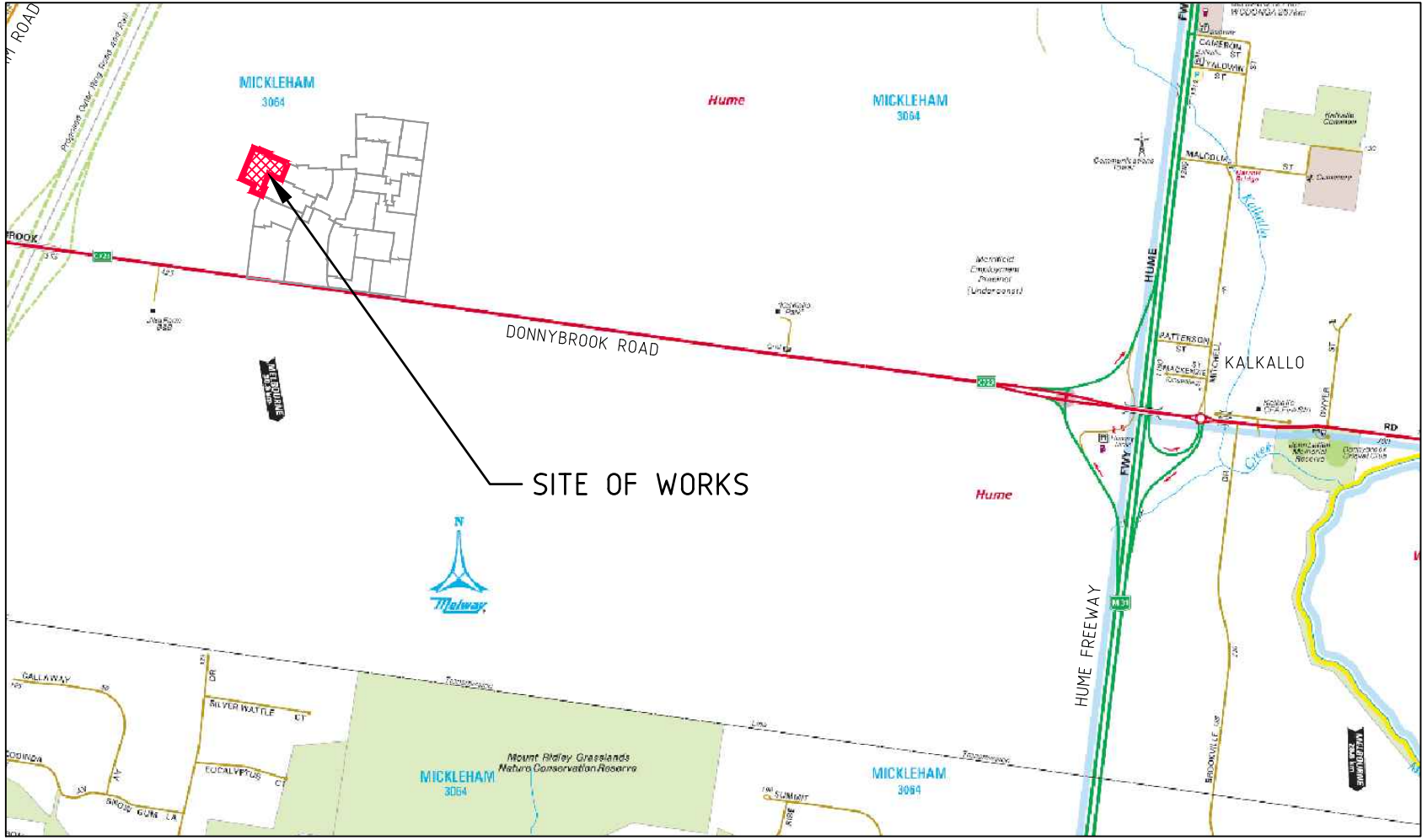
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS4000 AMENDED GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED HUME CITY COUNCIL SPECIFICATION AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT 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 PRECOMMENCEMENT 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 ALL COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, 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 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 (OR 2) AS SPECIFIED.
- 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 AND 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:
40% DWARF TALL FESCUE - DROUGHT TOLERANT CULTIVARS
40% COUCH
20% HARD FESCUE

NOTE: GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD.
- 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 STORMWATER DRAINS ARE TO BE CLASS '2' RC OR RIGID FRC PIPES WITH ADCOL FLEXIBLE COLLAR UNLESS OTHERWISE SHOWN. ALL RC PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED (RRJ). INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 600mm 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 DRAWINGS.
- ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS TO THE SATISFACTION OF THE 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 STANDARD DRAWING SD408.
- 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 PLASTEINE) 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 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 AS1287.2-1993, 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



LOCALITY PLAN

MELWAY REF MAP: 366 D3,E4
NTS

DRAWING INDEX

| SHEET NO. | DRAWING NO. | DESCRIPTION |
|-----------|---------------|--|
| 01 | 11733TD01 | LOCALITY PLAN, INDEX AND NOTES |
| 02 | 11733TD02 | TYPICAL SECTIONS AND DETAILS |
| 03 | 11733SP01 | STAGING PLAN |
| 04 | 11733DP01 | DETAIL PLAN |
| 05-06 | 11733SOP01-02 | SETOUT DETAILS - SHEETS 01 TO 02 |
| 07-10 | 11733ID01-04 | INTERSECTION DETAILS - SHEETS 01 TO 04 |
| 11 | 11733LM01 | SIGNAGE AND LINE MARKING PLAN |
| 12-15 | 11733LS01-04 | LONGITUDINAL SECTIONS - SHEETS 01 TO 04 |
| 16-25 | 11733XS01-10 | CROSS SECTIONS - SHEETS 01 TO 10 |
| 26-27 | 11733OED01-02 | OPEN EARTH DRAIN PLAN - SHEET 01 TO 02 |
| 28-30 | 11733DR01-03 | DRAINAGE LONGITUDINAL SECTIONS - SHEETS 01 TO 03 |
| 31 | 11733DR04 | DRAINAGE PIT SCHEDULE |
| 32 | 11733POS01 | PLAN OF SUBDIVISION |
| 33 | 11733FP01 | FILL PLAN |
| 34 | 11733EF01 | EXISTING FEATURES |

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| 0 | CONSTRUCTION ISSUE | 13/11/15 | TL |
| REV | AMENDMENTS | DATE | APP'D. |

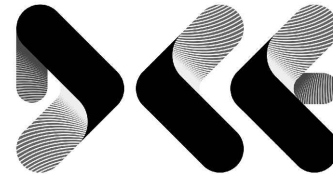
Drawn K.PAGE
Date 16/05/15
AN 1511017
Designed N.MIRATANA
Date 14/05/15
AN 1541195
Verified S.LEA
Date 03/06/15
AN 1061781
Audited B.GORDON
Date 10/11/15
AN 162632
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884752

AS CONSTRUCTED



MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 13
LOCALITY PLAN, INDEX AND NOTES

Drawing No. 11733TD01 Rev 1
Sheet No. 01 AS CONSTRUCTED
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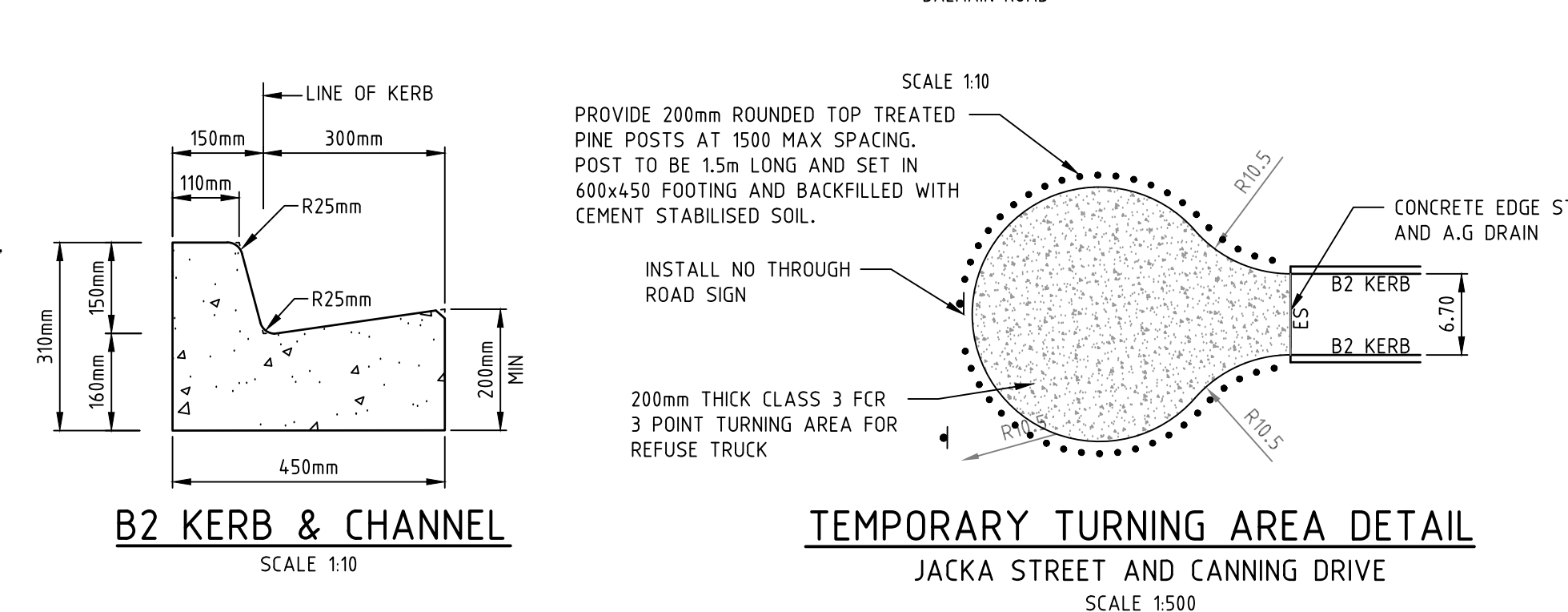
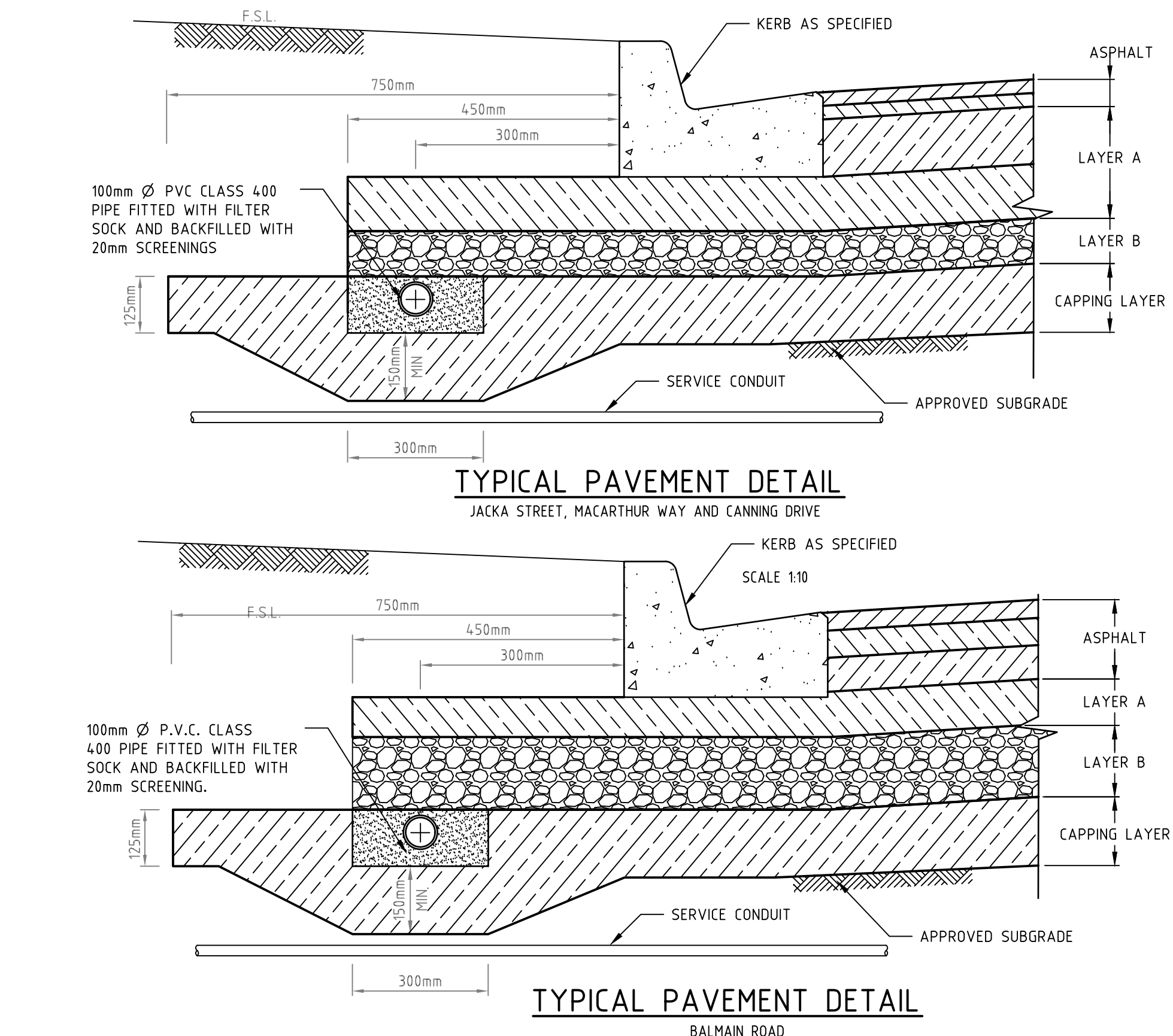
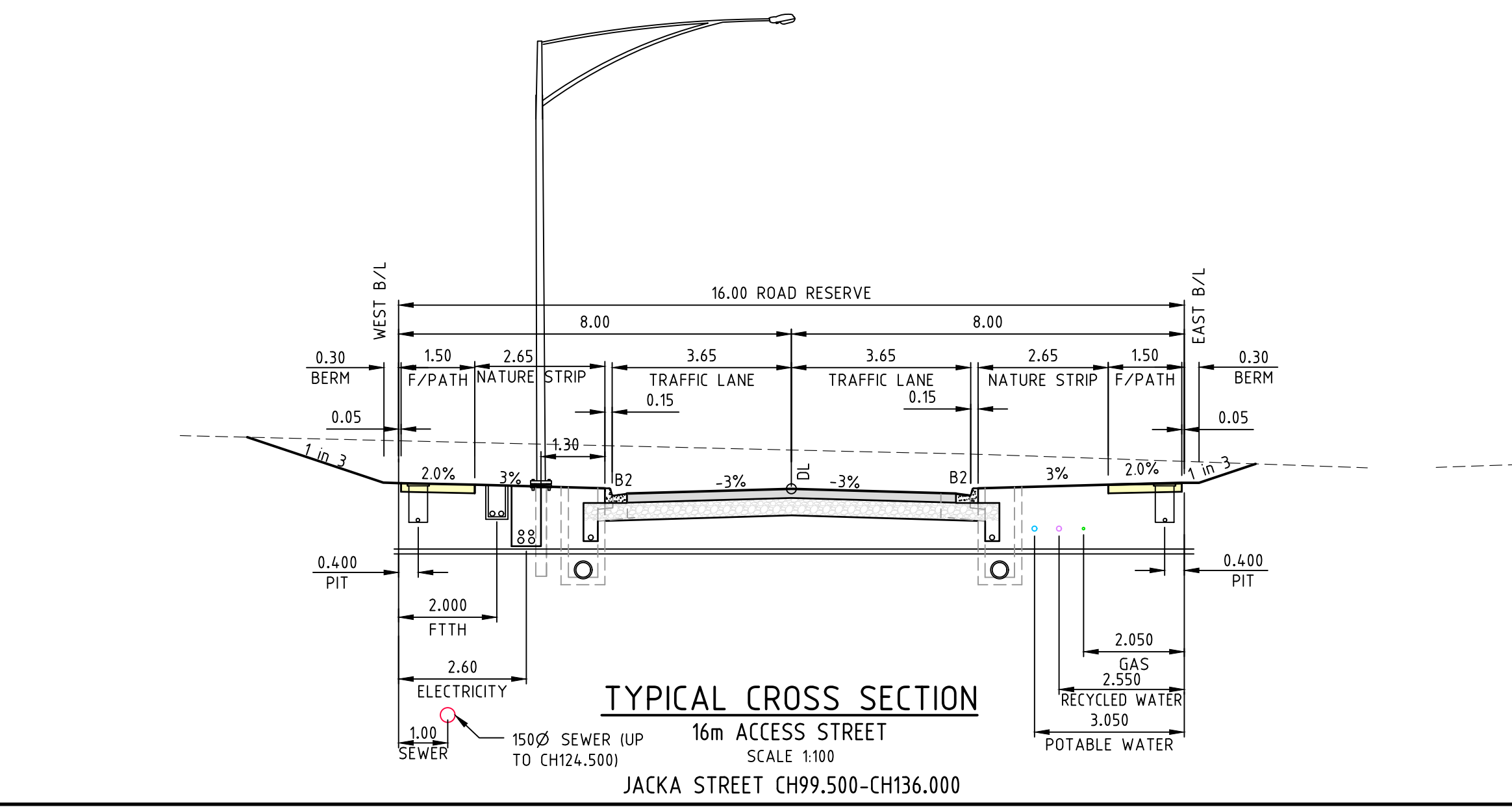
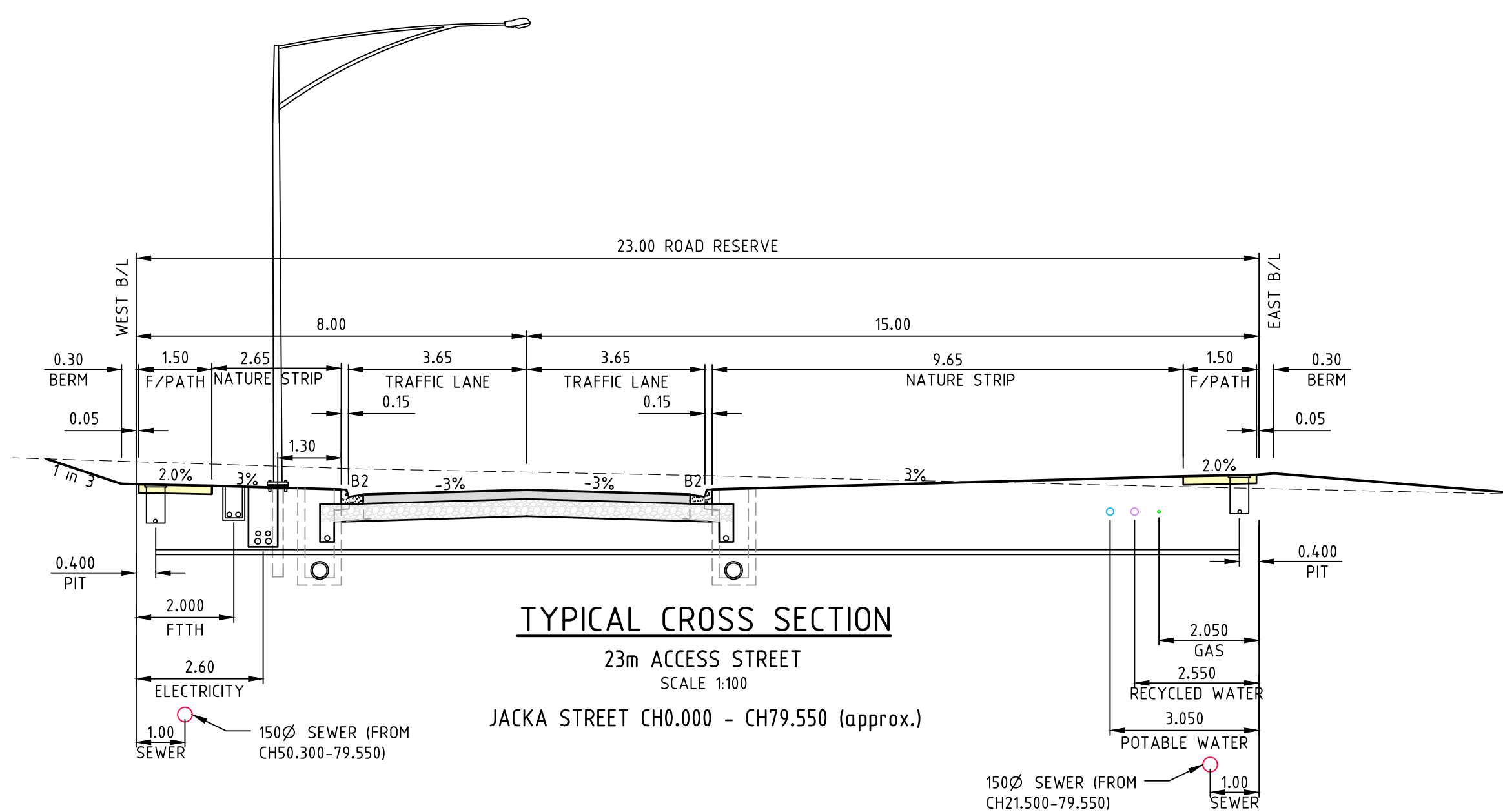
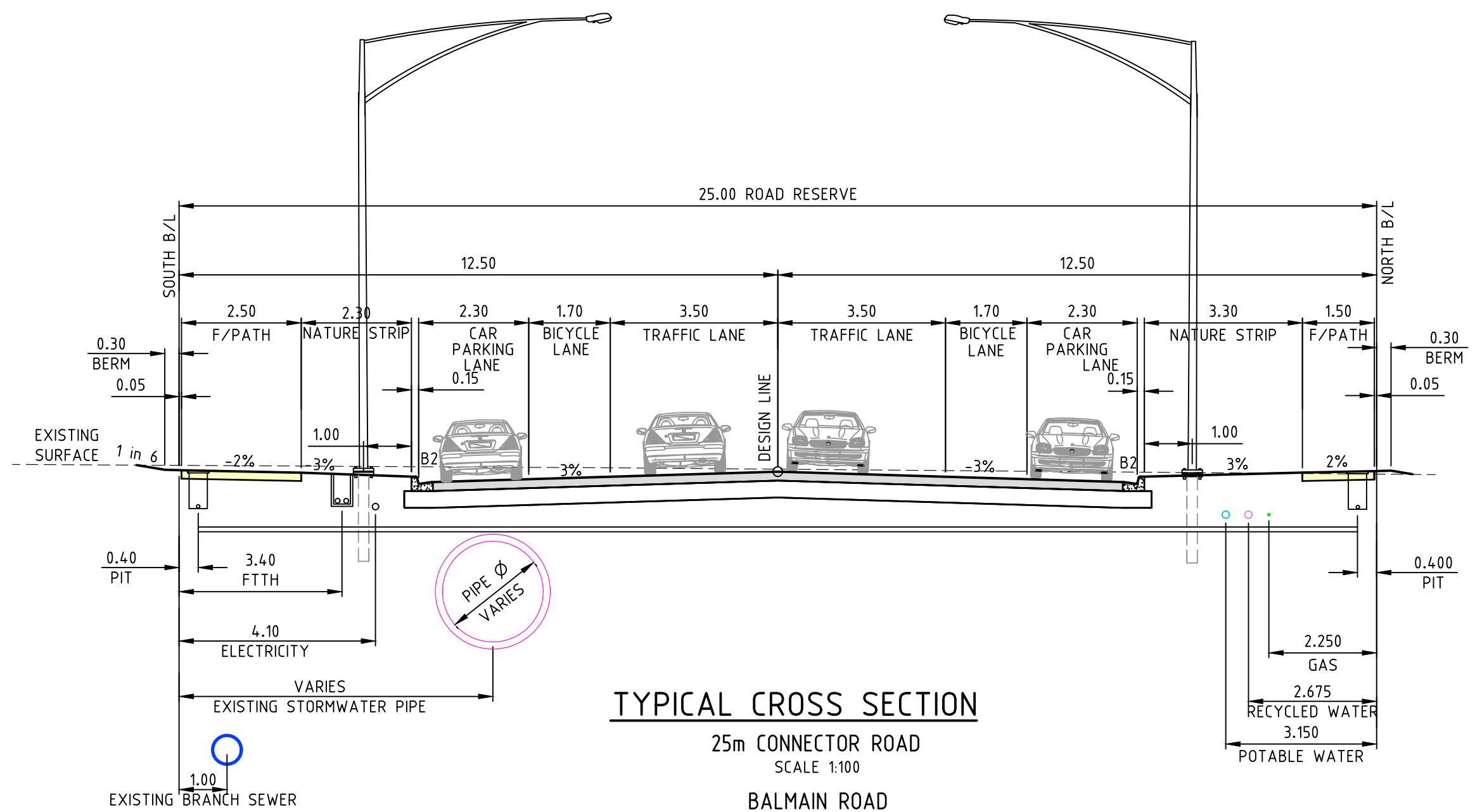


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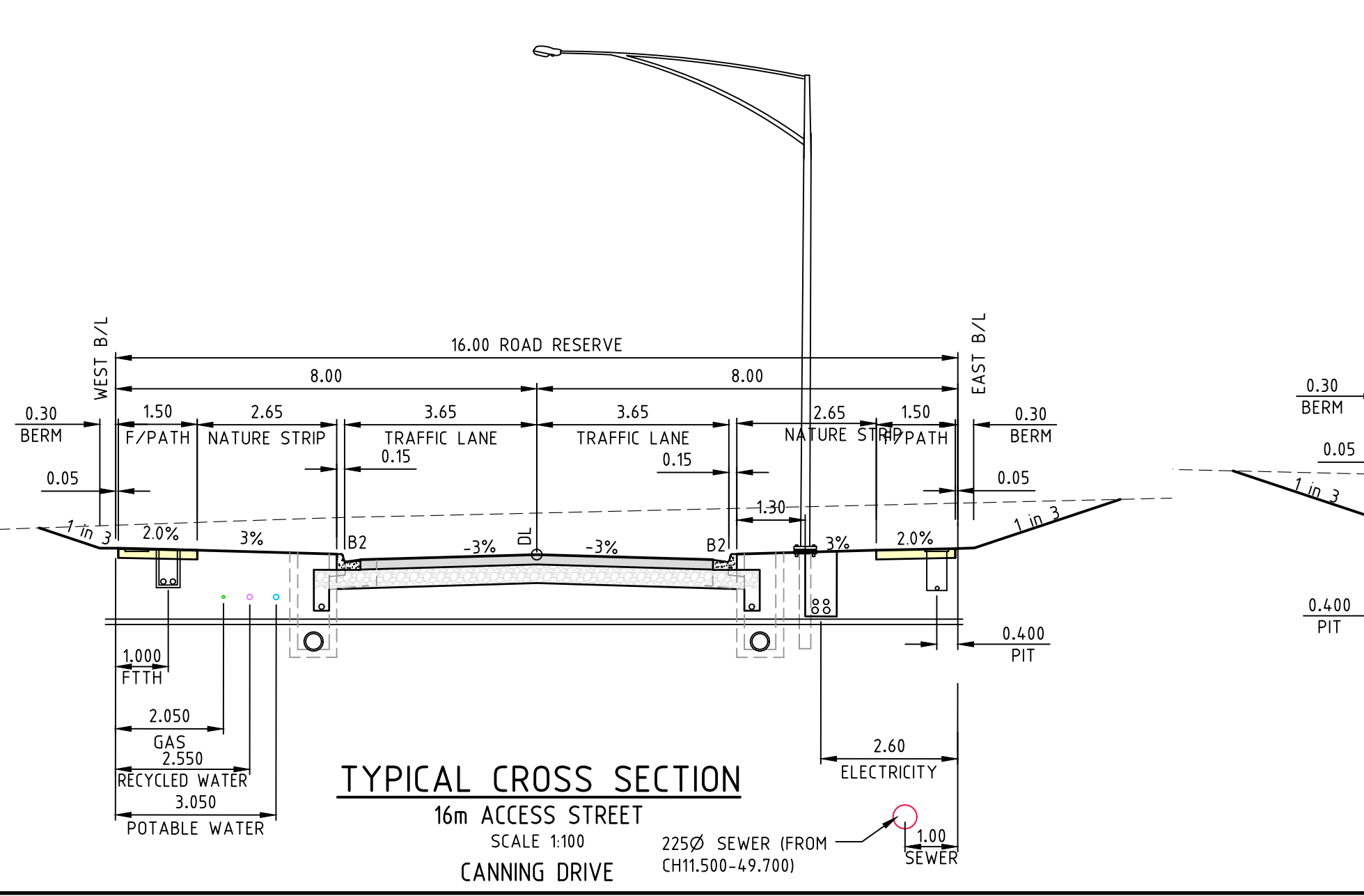
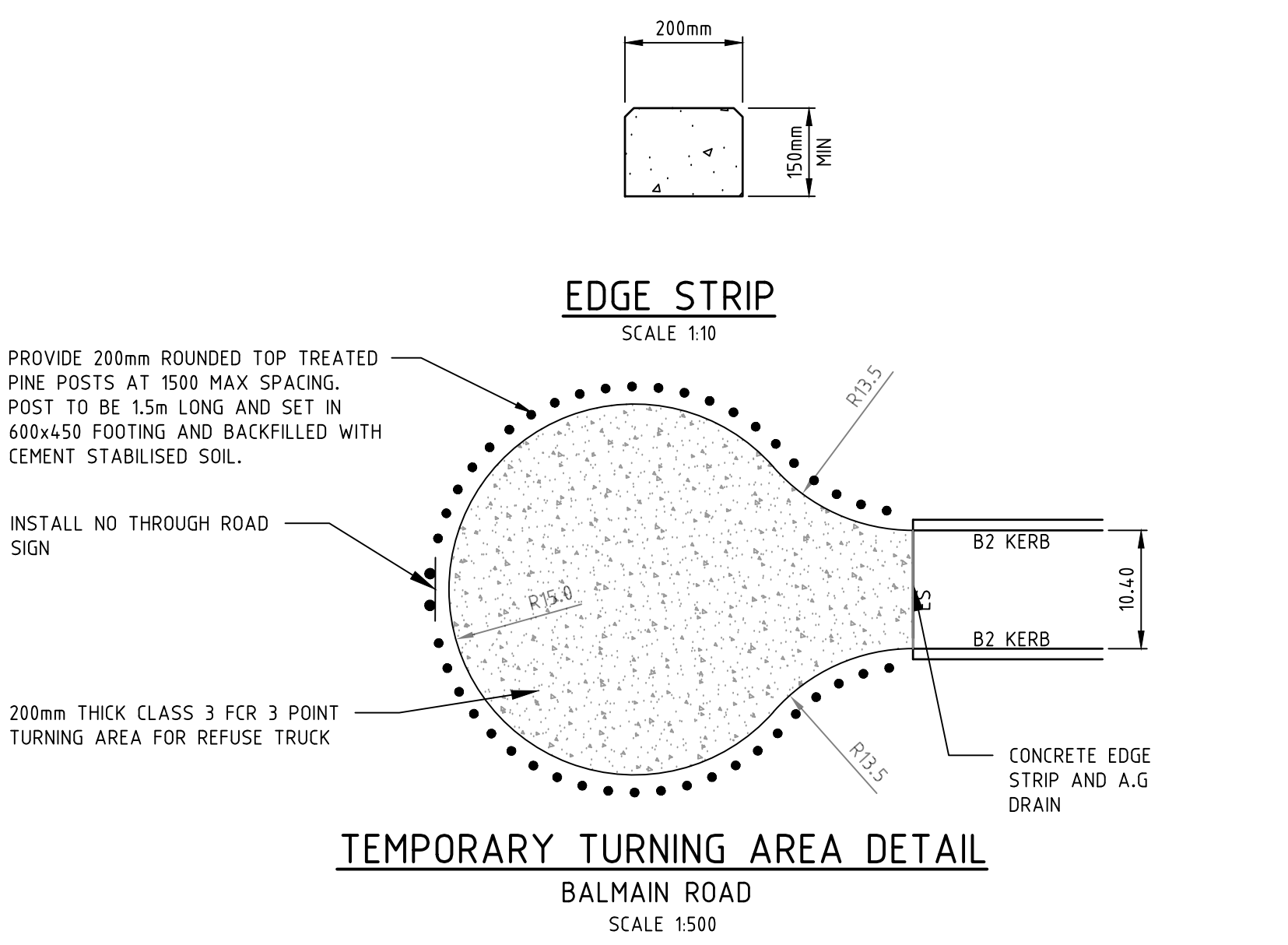
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Date/Time: Fri Apr 22, 2016 - 11:34am - ByronShade



| PAVEMENT DETAILS | | |
|------------------|--|---|
| | CONNECTOR ROAD / STREETS BALMAIN ROAD | ACCESS STREETS / PLACES JACKA STREET, MACARTHUR WAY AND CANNING DRIVE |
| ASPHALT | <u>WEARING COURSE</u> 40mm SIZE 14mm TYPE N ASPHALT <u>INTERMEDIATE COURSE 1</u> 75mm SIZE 20 TYPE SI ASPHALT <u>BASE COURSE</u> 75mm SIZE 20 TYPE SF ASPHALT | <u>WEARING COURSE</u> 30mm SIZE 10mm TYPE N ASPHALT <u>BASE COURSE</u> 30mm SIZE 10mm TYPE N ASPHALT <u>INTERLAYER</u> 10mm SAMI TREATMENT PRIME OR PRIMERSEAL |
| LAYER A | <u>UPPER SUBBASE:</u> 100mm SIZE 20mm 3% CEMENT TREATED CRUSHED ROCK (E=500MPa) | <u>BASE COURSE</u> 130mm SIZE 20mm CLASS 2 CRUSHED ROCK <u>UPPER SUBBASE:</u> 120mm SIZE 20 CLASS 3 CRUSHED ROCK |
| LAYER B | <u>LOWER SUBBASE:</u> 115mm SIZE 20 CLASS 4 CRUSHED ROCK | <u>LOWER SUBBASE:</u> 100mm SIZE 20 CLASS 4 CRUSHED ROCK |
| CAPPING LAYER | <u>CAPPING</u> 150mm REFER SECTION 7.4 OF REPORT | <u>CAPPING</u> 150mm REFER SECTION 7.4 OF REPORT |
| DEPTH TOTAL | 540mm | 570mm |
| SUBGRADE | SUBGRADE CBR ≥ 2% | SUBGRADE CBR ≥ 2% |

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



Coords: MGA
Levels: AHD
Hor 1:100 0m 1m 2m 4m 6m
Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
TYPICAL SECTIONS AND DETAILS

Drawing No. 11733TD02 Rev 2
Sheet No. 02 **AS CONSTRUCTED**
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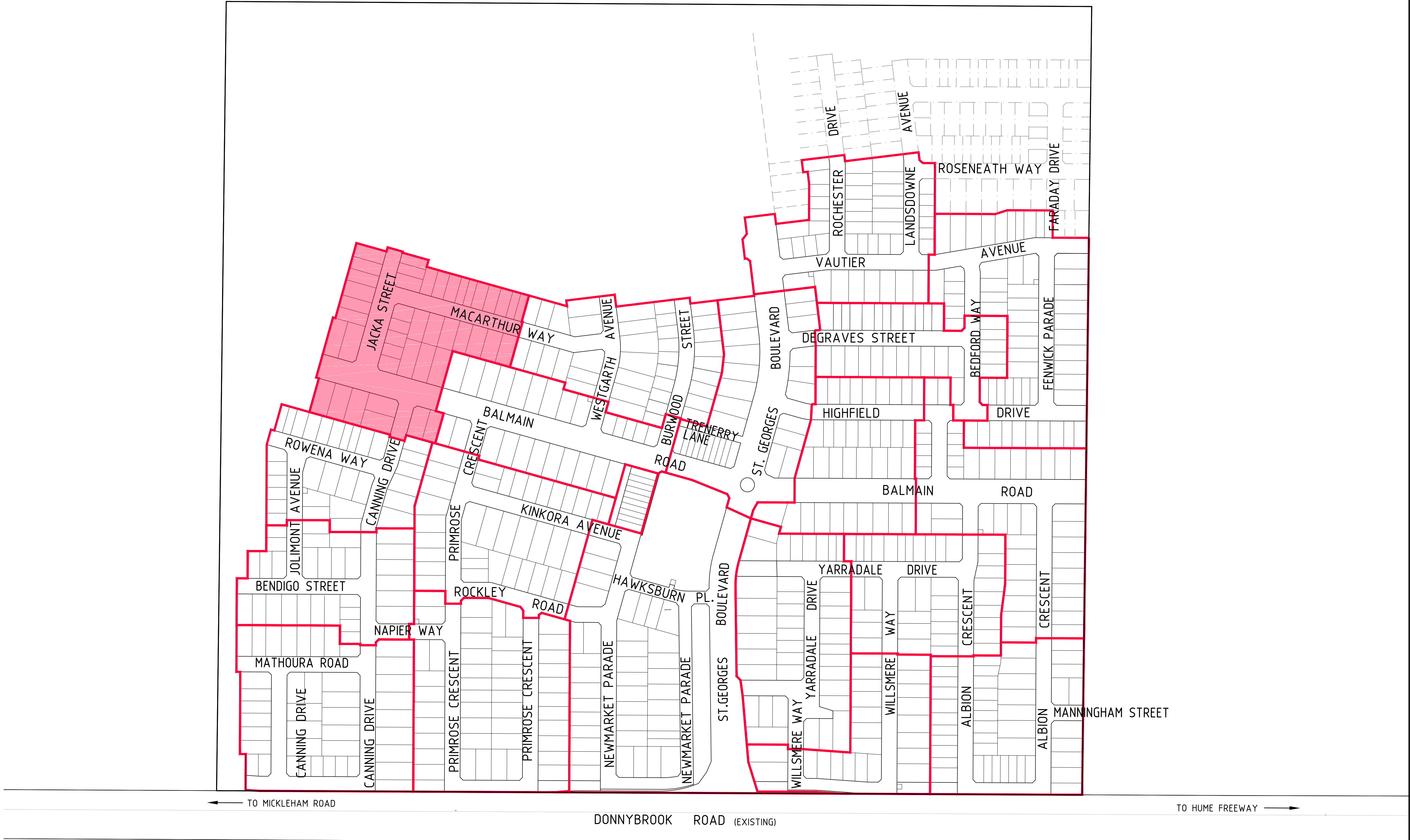
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| 2 | AS CONSTRUCTED | 22/04/16 | TL |
| 1 | CANNING DRIVE NBN AMENDED | 01/02/16 | TL |
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

AS CONSTRUCTED

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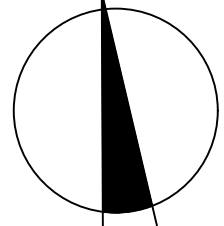


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AS CONSTRUCTED

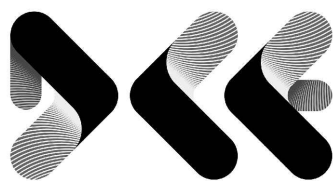


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MAB gpc

Coords: MGA
Levels: AHD
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Scale @ A1/A3 1:2000\1:4000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
STAGING PLAN

Drawing No. 11733SP01 Rev 1
Sheet No. 03 AS CONSTRUCTED
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CONSULTING
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E info@dceng.com.au

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

| TABLE OF SERVICES LOCATIONS | | | | | | |
|-----------------------------|--------|----------|--------|--------|--------|-------------|
| STREET NAME | WATER | NO-WATER | GAS | NBN | ELEC. | BOK |
| BALMAIN ROAD | 3.15 N | 2.675 N | 2.25 N | 3.40 S | 4.10 S | 4.85 & 7.15 |
| MACARTHUR WAY | 3.05 N | 2.55 N | 2.05 N | 1.85 S | 2.45 S | 4.20 |
| JACKA STREET | 3.05 E | 2.55 E | 2.05 E | 2.00 W | 2.60 W | 4.20 |
| CANNING DRIVE | 3.05 E | 2.55 E | 2.05 E | 1.00 E | 2.60 W | 4.20 |

| REV | AMENDMENTS | DATE | APP'D. |
|-----|---------------------------|----------|--------|
| 2 | AS CONSTRUCTED | 22/04/26 | TL |
| 1 | CANNING DRIVE NBN AMENDED | 01/02/16 | TL |
| 0 | CONSTRUCTION ISSUE | 13/11/15 | TL |

Drawn K.PAGE
Date 16/05/15
AN 1511017
Designed N.MIRATANA
Date 14/05/15
AN 1541198
Verified S.LEA
Date 03/06/15
AN 1081784
Audited B.GORDON
Date 10/11/15
AN 162635
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884755

22/04/26
01/02/16
13/11/15

TL
TL
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.

Ex W

Ex G

Ex E

Ex S

Ex T

Ex V

Ex P

Ex Q

Ex R

Ex U

Ex V

Ex W

Ex X

Ex Y

Ex Z

Ex AA

Ex AB

Ex AC

Ex AD

Ex AE

Ex AF

Ex AG

Ex AH

Ex AI

Ex AJ

Ex AK

Ex AL

Ex AM

Ex AN

Ex AO

Ex AP

Ex AQ

Ex AR

Ex AS

Ex AT

Ex AU

Ex AV

Ex AW

Ex AX

Ex AY

Ex AZ

Ex BA

Ex BB

Ex BC

Ex BD

Ex BE

Ex BF

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Ex BH

Ex BI

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Ex BK

Ex BL

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Ex BN

Ex BO

Ex BP

Ex BQ

Ex BR

Ex BS

Ex BT

Ex BU

Ex BV

Ex BW

Ex BX

Ex BY

Ex BZ

Ex CA

Ex CB

Ex CC

Ex CD

Ex CE

Ex CF

Ex CG

Ex CH

Ex CI

Ex CJ

Ex CK

Ex CL

Ex CM

Ex CN

Ex CO

Ex CP

Ex CQ

Ex CR

Ex CS

Ex CT

Ex CU

Ex CV

Ex CW

Ex CX

Ex CY

Ex CZ

Ex DA

Ex DB

Ex DC

Ex DD

Ex DE

Ex DF

Ex DG

Ex DH

Ex DI

Ex DJ

Ex DK

Ex DL

Ex DM

Ex DN

Ex DO

Ex DP

Ex DQ

Ex DR

Ex DS

Ex DT

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Ex DV

Ex DW

Ex DX

Ex DY

Ex DZ

Ex EA

Ex EB

Ex EC

Ex ED

Ex EE

Ex EF

Ex EG

Ex EH

Ex EI

Ex EJ

Ex EK

Ex EL

Ex EM

Ex EN

Ex EO

Ex EP

Ex EQ

Ex ER

Ex ES

Ex ET

Ex EU

Ex EV

Ex EW

Ex EX

Ex FY

Ex FZ

Ex GA

Ex GB

Ex GC

Ex GD

Ex GE

Ex GF

Ex GH

Ex GI

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Ex IE

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Ex IG

Ex IH

Ex II

Ex IJ

Ex IK

Ex IL

Ex IM

Ex IN

Ex IO

Ex IP

Ex IQ

Ex IR

Ex IS

Ex IT

Ex IU

Ex IV

Ex IW

Ex IX

Ex IY

Ex IZ

Ex JA

Ex JB

Ex JC

Ex JD

Ex JE

Ex JF

Ex JG

Ex JH

Ex JI

Ex JJ

Ex JK

Ex JL

Ex JM

Ex JN

Ex JO

Ex JP

Ex JQ

Ex JR

Ex JS

Ex JT

Ex JU

Ex JV

Ex JW

Ex JX

Ex JY

Ex JZ

Ex KA

Ex KB

Ex KC

Ex KD

Ex KE

Ex KF

Ex KG

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Ex PB

Ex PC

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Ex PF

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Ex UP

Ex UQ

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Ex UW

Ex UX

Ex UY

Ex UZ

Ex VA

Ex VB

Ex VC

Ex VD

Ex VE

Ex VF

Ex VG

Ex VH

Ex VI

Ex VJ

Ex VK

Ex VL

Ex VM

Ex VN

Ex VO

Ex VP

Ex VQ

Ex VR

Ex VS

Ex VT

Ex VU

Ex VV

Ex VW

Ex VX

Ex VY

Ex VZ

Ex WA

Ex WB

Ex WC

Ex WD

Ex WE

Ex WF

Ex WG

Ex WH

Ex WI

Ex WJ

Ex WK

Ex WL

Ex WM

Ex WN

Ex WO

Ex WP

Ex WQ

Ex WR

Ex WS

Ex WT

Ex WU

Ex WV

Ex WW

Ex WX

Ex WY

Ex WZ

Ex XA

Ex XB

Ex XC

Ex XD

Ex XE

Ex XF

Ex XG

Ex XH

Ex XI

Ex XJ

Ex XK

Ex XL

Ex XM

Ex XN

Ex XO

Ex XP

Ex XQ

Ex XR

Ex XS

Ex XT

Ex XU

Ex XV

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Ex ZP

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300Ø EXISTING 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

RW

T

E

G

STREET NAME SIGN

REGRADE LOT AT MIN 1 IN 150

ASPHALT PAVEMENT

CONC FOOTPATH / DRIVEWAY

LIMIT OF WORKS

FILLING OVER 300mm

FINISHED SURFACE CONTOUR

Ex W

Ex G

Ex E

Ex S

Ex T

Ex V

Ex P

Ex Q

Ex R

Ex U

Ex V

Ex W

Ex X

Ex Y

Ex Z

Ex AA

Ex AB

Ex AC

Ex AD

Ex AE

Ex AF

Ex AG

Ex AH

Ex AI

Ex AJ

Ex AK

Ex AL

Ex AM

Ex AN

Ex AO

Ex AP

Ex AQ

Ex AR

Ex AS

Ex AT

Ex AU

Ex AV

Ex AW

Ex AX

Ex AY

Ex AZ

Ex BA

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Ex BC

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Ex CA

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Ex CC

Ex CD

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Ex CH

Ex CI

Ex CJ

Ex CK

Ex CL

Ex CM

Ex CN

Ex CO

Ex CP

Ex CQ

Ex CR

Ex CS

Ex CT

Ex CU

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Ex CW

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Ex CZ

Ex DA

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Ex IE

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Ex II

Ex IJ

Ex IK

Ex IL

Ex IM

Ex IN

Ex IO

Ex IP

Ex IQ

Ex IR

Ex IS

Ex IT

Ex IU

Ex IV

Ex IW

Ex IX

Ex IY

Ex IZ

Ex JA

Ex JB

Ex JC

Ex JD

Ex JE

Ex JF

Ex JG

Ex JH

Ex JI

Ex JJ

Ex JK

Ex JL

Ex JM

Ex JN

Ex JO

Ex JP

Ex JQ

Ex JR

Ex JS

Ex JT

Ex JU

Ex JV

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Ex JZ

Ex KA

Ex KB

Ex KC

Ex KD

Ex KE

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Ex NU

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Ex NX

Ex NY

Ex NZ

Ex OA

Ex OB

Ex OC

Ex OD

Ex OE

Ex OF

Ex OG

Ex OH

Ex OI

Ex OJ

Ex OK

Ex OL

Ex OM

Ex ON

Ex OO

Ex OP

Ex OQ

Ex OR

Ex OS

Ex OT

Ex OU

Ex OV

Ex OW

Ex OX

Ex OY

Ex OZ

Ex PA

Ex PB

Ex PC

Ex PD

Ex PE

Ex PF

Ex PG

Ex PH

Ex PI

Ex PJ

Ex PK

Ex PL

Ex PM

Ex PN

Ex PO

Ex PP

Ex PQ

Ex PR

Ex PS

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Ex PZ

Ex QA

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Ex QC

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Ex SC

Ex SD

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Ex SF

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Ex SH

Ex SI

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Ex SK

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Ex UQ

Ex UR

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Ex UT

Ex UU

Ex UV

Ex UW

Ex UX

Ex UY

Ex UZ

Ex VA

Ex VB

Ex VC

Ex VD

Ex VE

Ex VF

Ex VG

Ex VH

Ex VI

Ex VJ

Ex VK

Ex VL

Ex VM

Ex VN

Ex VO

Ex VP

Ex VQ

Ex VR

Ex VS

Ex VT

Ex VU

Ex VV

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Ex VX

Ex VY

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Ex WD

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Ex WU

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Ex WW

Ex WX

Ex WY

Ex WZ

Ex XA

Ex XB

Ex XC

Ex XD

Ex XE

Ex XF

Ex XG

Ex XH

Ex XI

Ex XJ

Ex XK

Ex XL

Ex XM

Ex XN

Ex XO

Ex XP

Ex XQ

Ex XR

Ex XS

Ex XT

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Ex XV

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Ex ZO

Ex ZP

Ex ZQ

Ex ZR

Ex ZS

Ex ZT

Ex ZU

Ex ZV

Ex ZW

Ex ZX

Ex ZY

Ex ZZ



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 13
DETAIL PLAN

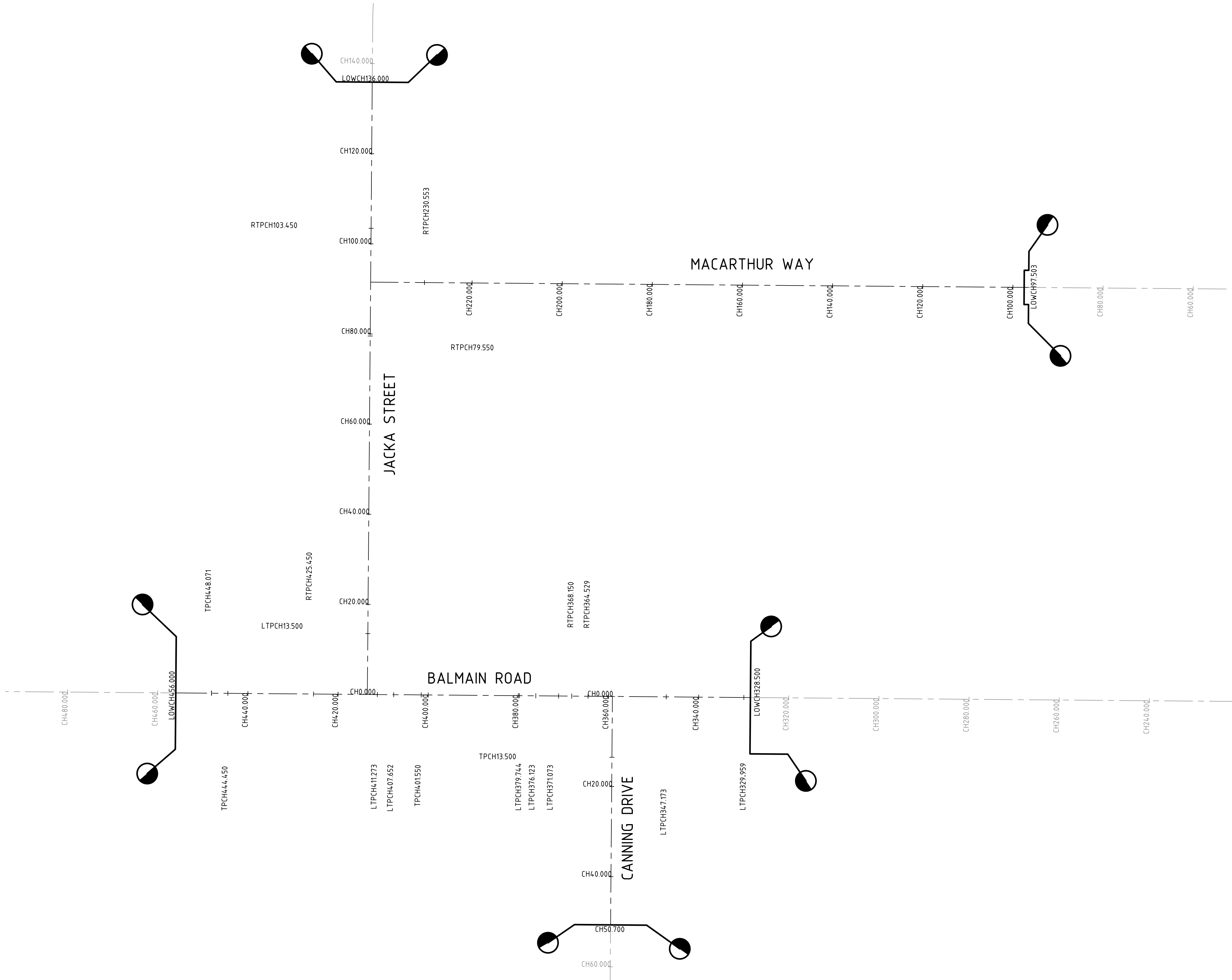
Drawing No. 11733DP01 Rev 2
Sheet No. 04 AS CONSTRUCTED
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Drawing File: G:\design\11700\11733-merrifield - precinct 1 - stage 13\road\RD\11733SOP01.dwg - 11733SOP01
Date/Time: Fri Apr 22, 2016 - 11:34am --byron.shode--

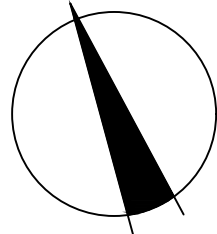


| | | | |
|-----|--------------------|----------|--------|
| 1 | AS CONSTRUCTED | 22/04/16 | TL |
| 0 | CONSTRUCTION ISSUE | 13/11/15 | TL |
| REV | AMENDMENTS | DATE | APP'D. |

Drawn K.PAGE
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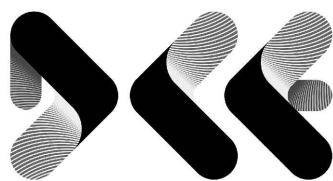
AS CONSTRUCTED



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 13
SET OUT DETAILS
SHEET 01 OF 02
Drawing No. 11733SOP01 Rev 1
Sheet No. 05 AS CONSTRUCTED
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Drawing File: C:\vesigindao\11700\11733-merrifield - precinct 1 - stage 13\koad\RD\11733SOP02.dwg - 11733SOP02
Date/Time: Fri Apr 22, 2016 - 11:34am --byron.shode--

HORIZONTAL ALIGNMENT REPORT FOR BALMAIN ROAD WEST DESIGN LINE

| POINT TYPE | CHAINAGE | COORDINATES | | RL | BEARING DEG MIN SEC | RADIUS |
|------------|----------|-------------|-------------|---------|------------------------|--------|
| | | EASTING | NORTHING | | | |
| STRAIGHT | 280.000 | 314748.391 | 5844067.826 | 247.977 | 292°27'34.26" | |
| STRAIGHT | 300.000 | 314729.908 | 5844075.467 | 248.115 | 292°27'34.26" | |
| STRAIGHT | 320.000 | 314711.425 | 5844083.107 | 248.253 | 292°27'34.26" | |
| STRAIGHT | 328.500 | 314703.569 | 5844086.355 | 248.312 | 292°27'34.26" | |
| STRAIGHT | 340.000 | 314692.942 | 5844090.748 | 248.391 | 292°27'34.26" | |
| STRAIGHT | 360.000 | 314674.459 | 5844098.389 | 248.529 | 292°27'34.26" | |
| STRAIGHT | 380.000 | 314655.976 | 5844106.029 | 248.667 | 292°27'34.26" | |
| STRAIGHT | 400.000 | 314637.493 | 5844113.670 | 248.805 | 292°27'34.26" | |
| STRAIGHT | 420.000 | 314619.010 | 5844121.310 | 248.943 | 292°27'34.26" | |
| STRAIGHT | 440.000 | 314600.527 | 5844128.951 | 249.081 | 292°27'34.26" | |
| STRAIGHT | 456.000 | 314585.740 | 5844135.064 | 249.192 | 292°27'34.26" | |
| STRAIGHT | 460.000 | 314582.044 | 5844136.592 | 249.219 | 292°27'34.26" | |
| STRAIGHT | 480.000 | 314563.561 | 5844144.232 | 249.357 | 292°27'34.26" | |
| STRAIGHT | 500.000 | 314545.078 | 5844151.873 | 249.495 | 292°27'34.26" | |
| STRAIGHT | 520.000 | 314526.595 | 5844159.513 | 249.633 | 292°27'34.26" | |
| STRAIGHT | 540.000 | 314508.112 | 5844167.154 | 249.771 | 292°27'34.26" | |
| STRAIGHT | 560.000 | 314489.629 | 5844174.795 | 249.909 | 292°27'34.26" | |
| STRAIGHT | 580.000 | 314471.146 | 5844182.435 | 250.047 | 292°27'34.26" | |

HORIZONTAL ALIGNMENT REPORT FOR JACKA STREET DESIGN LINE

| POINT TYPE | CHAINAGE | COORDINATES | | RL | BEARING DEG MIN SEC | RADIUS |
|----------------------|----------|-------------|-------------|---------|------------------------|---------|
| | | EASTING | NORTHING | | | |
| STRAIGHT (START ALN) | 0.000 | 314625.017 | 5844118.827 | 248.899 | 22°27'34.26" | |
| STRAIGHT | 20.000 | 314632.657 | 5844137.310 | 248.676 | 22°27'34.26" | |
| STRAIGHT | 40.000 | 314640.298 | 5844155.793 | 248.496 | 22°27'34.26" | |
| STRAIGHT | 60.000 | 314647.939 | 5844174.276 | 248.289 | 22°27'34.26" | |
| STRAIGHT | 80.000 | 314655.579 | 5844192.759 | 248.083 | 22°27'34.26" | |
| STRAIGHT | 100.000 | 314663.220 | 5844211.242 | 247.876 | 22°27'34.26" | |
| STRAIGHT | 120.000 | 314670.860 | 5844229.725 | 247.625 | 22°27'34.26" | |
| STRAIGHT | 136.000 | 314676.927 | 5844244.402 | 247.424 | 22°27'34.26" | |
| STRAIGHT | 140.000 | 314678.501 | 5844248.208 | 247.374 | 22°27'34.26" | |
| TANGENT-CURVE | 149.866 | 314682.270 | 5844257.325 | 247.250 | 22°27'34.26" | |
| CURVE | 153.333 | 314683.687 | 5844260.490 | 247.206 | 25°46'15.91" | 60.000 |
| CURVE | 160.000 | 314686.912 | 5844266.320 | 247.122 | 32°08'14.23" | 60.000 |
| CURVE | 166.667 | 314690.765 | 5844271.757 | 247.038 | 38°30'12.54" | 60.000 |
| CURVE-CURVE | 169.142 | 314692.345 | 5844273.662 | 247.007 | 40°52'00.57" | 60.000 |
| CURVE | 173.333 | 314694.975 | 5844276.925 | 246.955 | 36°51'50.29" | -60.000 |
| CURVE | 180.000 | 314698.670 | 5844282.470 | 246.871 | 30°29'51.98" | -60.000 |
| CURVE | 186.667 | 314701.728 | 5844288.390 | 246.787 | 24°07'53.67" | -60.000 |
| CURVE-TANGENT | 188.418 | 314702.420 | 5844289.998 | 246.765 | 22°27'34.26" | -60.000 |
| STRAIGHT | 200.000 | 314706.845 | 5844300.702 | 246.620 | 22°27'34.26" | |
| STRAIGHT | 220.000 | 314714.485 | 5844319.185 | 246.368 | 22°27'34.26" | |
| STRAIGHT | 240.000 | 314722.126 | 5844337.668 | 246.117 | 22°27'34.26" | |

HORIZONTAL ALIGNMENT REPORT FOR CANNING DRIVE DESIGN LINE

| POINT TYPE | CHAINAGE | COORDINATES | | RL | BEARING DEG MIN SEC | RADIUS |
|----------------------|----------|-------------|-------------|---------|------------------------|---------|
| | | EASTING | NORTHING | | | |
| STRAIGHT (START ALN) | 0.000 | 314675.269 | 5844098.053 | 248.523 | 202°27'34.26" | |
| STRAIGHT | 20.000 | 314667.629 | 5844079.570 | 248.452 | 202°27'34.26" | |
| STRAIGHT | 40.000 | 314659.988 | 5844061.087 | 248.627 | 202°27'34.26" | |
| STRAIGHT | 50.700 | 314655.900 | 5844051.199 | 248.734 | 202°27'34.26" | |
| STRAIGHT | 60.000 | 314652.347 | 5844042.605 | 248.827 | 202°27'34.26" | |
| TANGENT-CURVE | 72.550 | 314647.553 | 5844031.006 | 248.953 | 202°27'34.26" | |
| CURVE | 76.000 | 314646.055 | 5844027.901 | 248.987 | 209°02'54.71" | 30.000 |
| CURVE-TANGENT | 79.525 | 314644.166 | 5844024.927 | 249.022 | 215°46'49.76" | 30.000 |
| STRAIGHT | 80.000 | 314643.889 | 5844024.541 | 249.027 | 215°46'49.76" | |
| TANGENT-CURVE | 89.879 | 314638.112 | 5844016.527 | 249.126 | 215°46'49.76" | |
| CURVE | 92.000 | 314636.934 | 5844014.764 | 249.147 | 211°43'47.34" | -30.000 |
| CURVE | 96.000 | 314635.063 | 5844011.232 | 249.187 | 204°05'25.36" | -30.000 |
| CURVE-TANGENT | 96.854 | 314634.726 | 5844010.447 | 249.196 | 202°27'34.26" | -30.000 |
| STRAIGHT | 100.000 | 314633.524 | 5844007.540 | 249.227 | 202°27'34.26" | |
| STRAIGHT | 120.000 | 314625.883 | 5843989.057 | 249.327 | 202°27'34.26" | |
| TANGENT-CURVE | 134.254 | 314620.438 | 5843975.884 | 249.398 | 202°27'34.26" | |
| CURVE | 140.000 | 314618.448 | 5843970.495 | 249.427 | 198°04'11.88" | -75.000 |
| CURVE | 146.667 | 314616.665 | 5843964.074 | 249.460 | 192°58'37.24" | -75.000 |
| CURVE | 153.333 | 314615.458 | 5843957.519 | 249.494 | 187°53'02.59" | -75.000 |
| CURVE-TANGENT | 154.421 | 314615.317 | 5843956.440 | 249.499 | 187°03'10.00" | -75.000 |

HORIZONTAL ALIGNMENT REPORT FOR MACARTHUR WAY DESIGN LINE

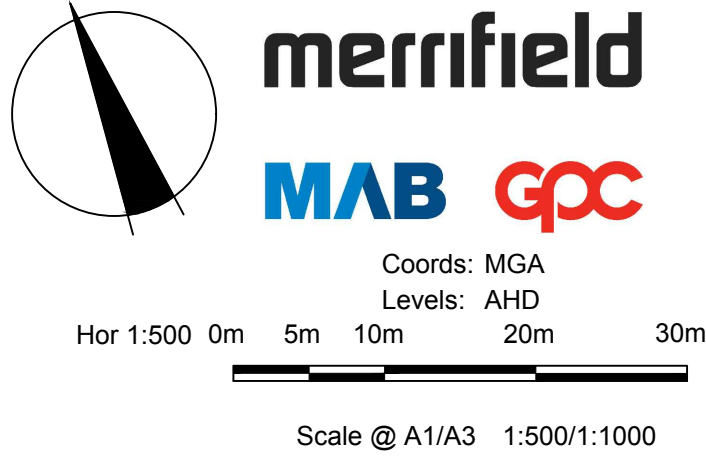
| POINT TYPE | CHAINAGE | COORDINATES | | RL | BEARING DEG MIN SEC | RADIUS |
|----------------------|----------|-------------|-------------|---------|------------------------|--------|
| | | EASTING | NORTHING | | | |
| STRAIGHT (START ALN) | 0.000 | 314887.202 | 5844125.748 | 246.366 | 269°54'03.33" | |
| STRAIGHT | 20.000 | 314867.202 | 5844125.713 | 246.348 | 269°54'03.33" | |
| TANGENT-CURVE | 33.270 | 314853.932 | 5844125.691 | 246.460 | 269°54'03.33" | |
| CURVE | 36.000 | 314851.205 | 5844125.810 | 246.486 | 275°06'54.50" | 30.000 |
| CURVE | 40.000 | 314847.257 | 5844126.431 | 246.525 | 282°45'16.48" | 30.000 |
| CURVE | 44.000 | 314843.426 | 5844127.571 | 246.563 | 290°23'38.45" | 30.000 |
| CURVE-TANGENT | 45.081 | 314842.419 | 5844127.966 | 246.573 | 292°27'34.26" | 30.000 |
| STRAIGHT | 60.000 | 314828.632 | 5844133.665 | 246.716 | 292°27'34.26" | |
| STRAIGHT | 80.000 | 314810.149 | 5844141.306 | 246.908 | 292°27'34.26" | |
| STRAIGHT | 97.503 | 314794.901 | 5844147.608 | 247.076 | 292°27'34.26" | |
| STRAIGHT | 100.000 | 314791.666 | 5844148.947 | 247.099 | 292°27'34.26" | |
| STRAIGHT | 120.000 | 314773.183 | 5844156.587 | 247.268 | 292°27'34.26" | |
| STRAIGHT | 140.000 | 314754.700 | 5844164.228 | 247.368 | 292°27'34.26" | |
| STRAIGHT | 160.000 | 314736.217 | 5844171.868 | 247.468 | 292°27'34.26" | |
| STRAIGHT | 180.000 | 314717.734 | 5844179.509 | 247.568 | 292°27'34.26" | |
| STRAIGHT | 200.000 | 314699.251 | 5844187.150 | 247.668 | 292°27'34.26" | |
| STRAIGHT | 220.000 | 314680.768 | 5844194.790 | 247.768 | 292°27'34.26" | |
| STRAIGHT | 240.000 | 314662.285 | 5844202.431 | 247.889 | 292°27'34.26" | |
| STRAIGHT (END ALN) | 242.503 | 314659.973 | 5844203.387 | 247.964 | 292°27'34.26" | |

| | | | |
|-----|--------------------|----------|--------|
| 1 | AS CONSTRUCTED | 22/04/16 | TL |
| 0 | CONSTRUCTION ISSUE | 13/11/15 | TL |
| REV | AMENDMENTS | DATE | APP'D. |

Drawn K.PAGE
Date 16/05/15
AN 1511017
Designed N.MIRATANA
Date 14/05/15
AN 1541200
Verified S.LEA
Date 03/06/15
AN 1061786
Audited B.GORDON
Date 10/11/15
AN 162637
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884757

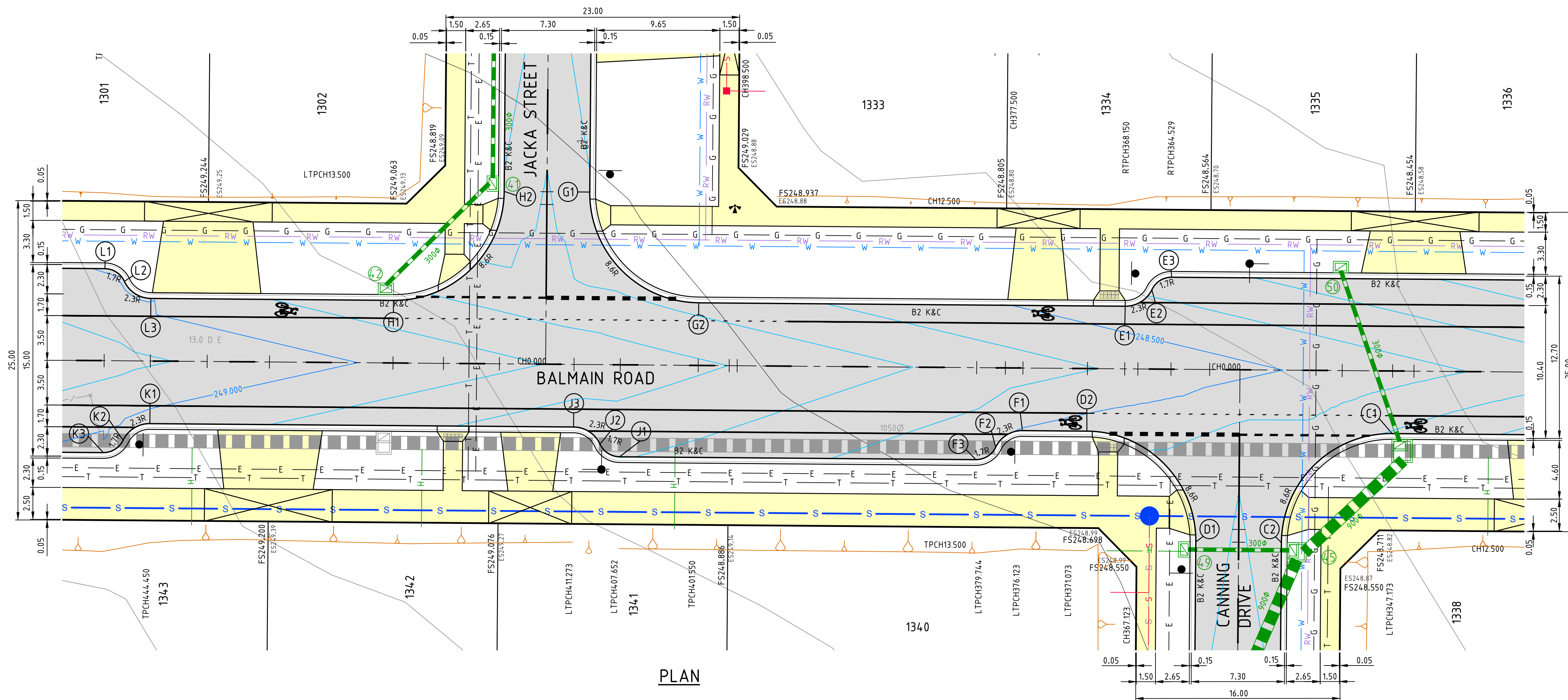
Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.

AS CONSTRUCTED



MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 13
SET OUT DETAILS
SHEET 02 OF 02
Drawing No. 11733SOP02 Rev 1
Sheet No. 06 AS CONSTRUCTED
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ABN 78 429 221 049
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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.

LIP SETOUT DETAIL
N.T.S

ALIGNMENT C

ALIGNMENT D

ALIGNMENT E

ALIGNMENT F

| CURVE NO | I | RADIUS | ARC | A | B | X | Y | L | MID POINT RL |
|----------|--------|--------|-------|-------|-------|-------|-------|-------|--------------|
| F1 - F2 | 64.849 | 2.300 | 2.603 | 0.359 | 0.267 | 0.642 | 0.591 | 0.651 | 248.502 |
| F2 - F3 | 64.849 | 1.700 | 1.924 | 0.265 | 0.197 | 0.475 | 0.437 | 0.481 | 248.516 |

ALIGNMENT G

| | | | | | | | | | |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|--------------|
| CURVE NO | I | RADIUS | ARC | A | B | X | Y | L | MID POINT RL |
| G1 - G2 | 90.000 | 8.600 | 13.509 | 2.519 | 1.864 | 3.291 | 2.790 | 3.377 | 248.653 |

ALIGNMENT H

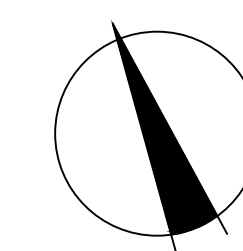
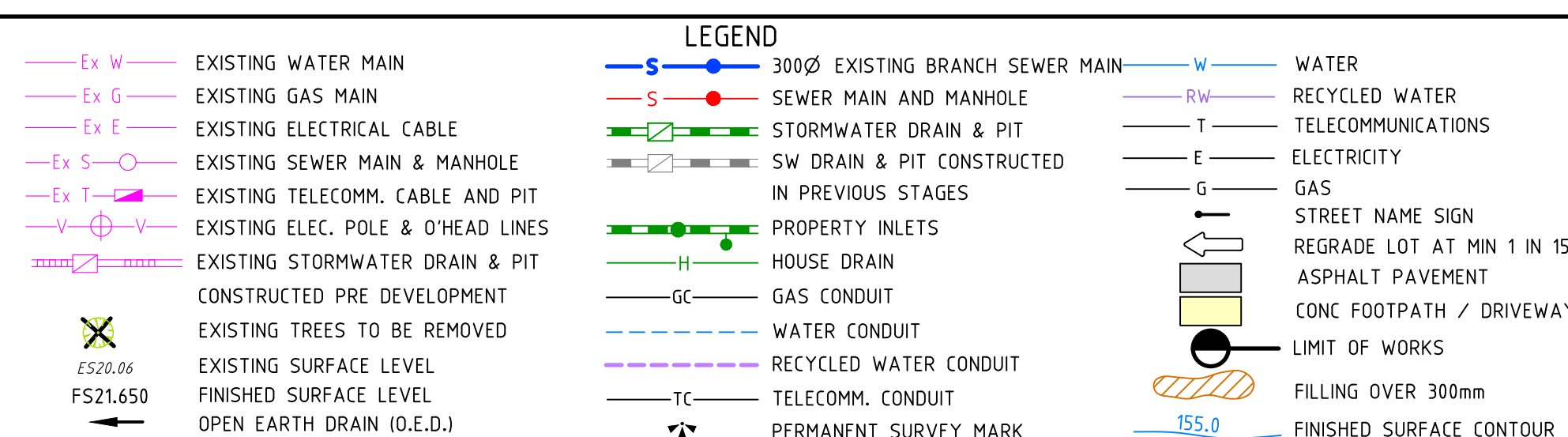
| CURVE NO | I | RADIUS | ARC | A | B | X | Y | L | MID POINT RL |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|--------------|
| H1 - H2 | 90.000 | 8.600 | 13.509 | 2.519 | 1.864 | 3.291 | 2.790 | 3.377 | 248.719 |

AS CONSTRUCTED

| | | | |
|-----|--------------------|----------|--------|
| 1 | AS CONSTRUCTED | 22/04/16 | TL |
| 0 | CONSTRUCTION ISSUE | 13/11/15 | TL |
| REV | AMENDMENTS | DATE | APP'D. |

Drawn K.PAGE
Date 16/05/15
AN 1511017
Designed N.MIRATANA
Date 14/05/15
AN 1541201
Verified S.LEA
Date 03/06/15
AN 1061787
Audited B.GORDON
Date 10/11/15
AN 162638
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884758

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

0m 2m 4m 8m 12m

Scale @ A1/A3 1:200/1:400

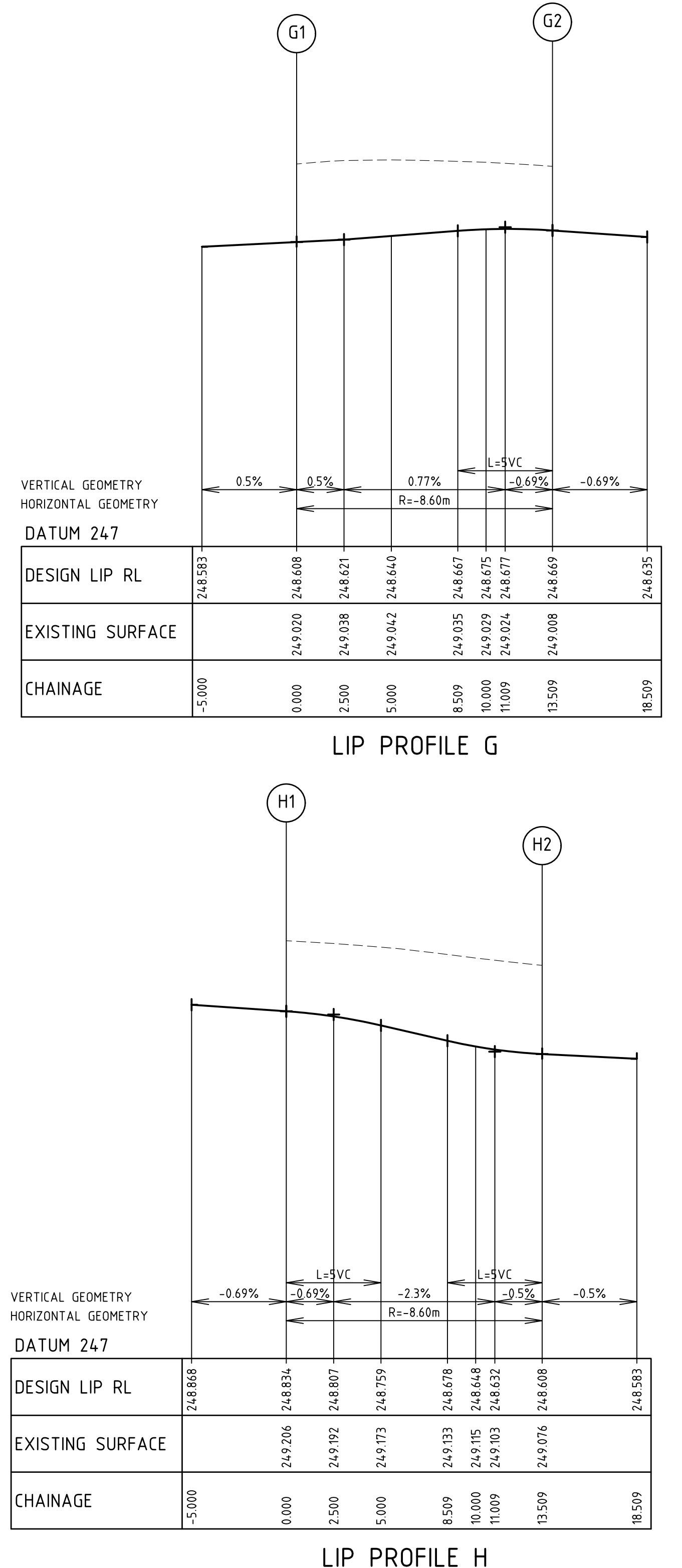
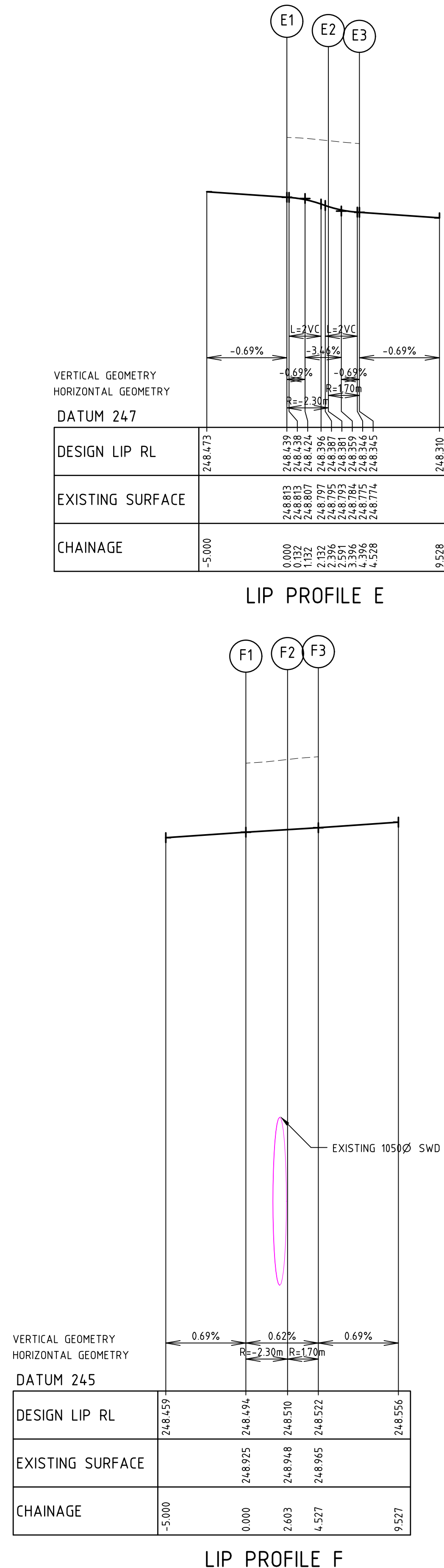
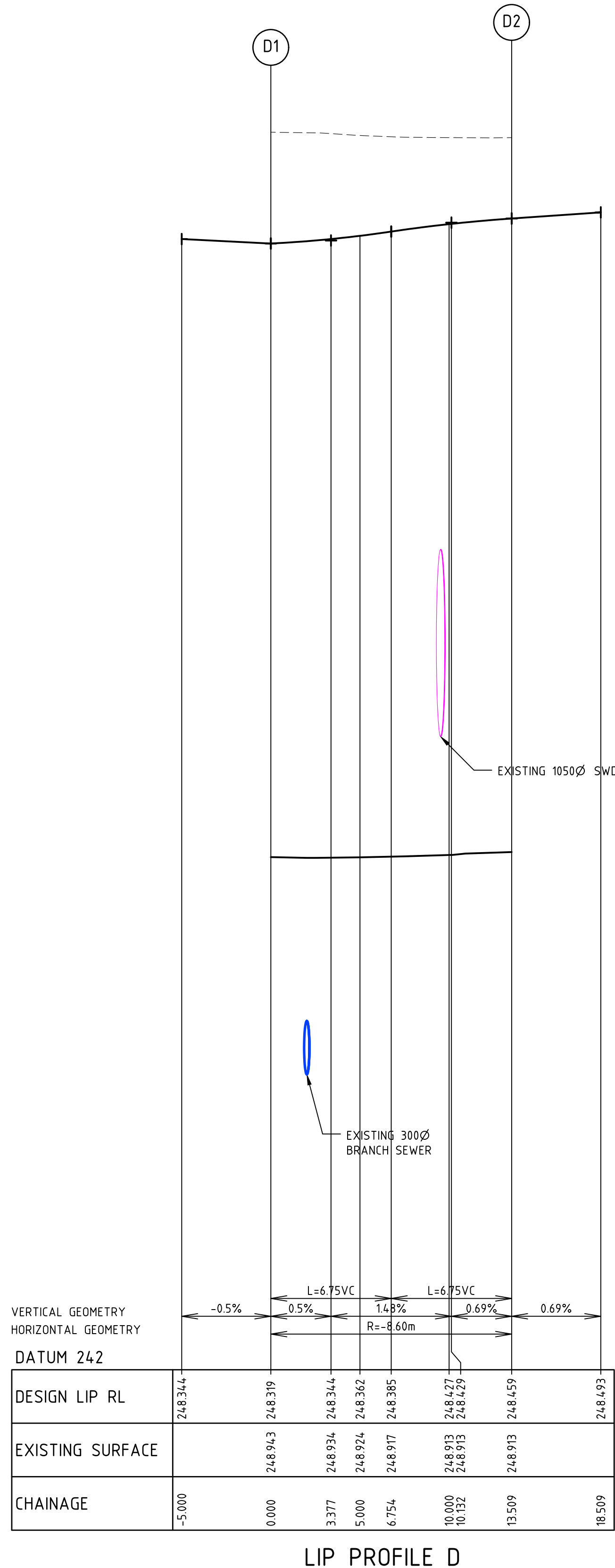
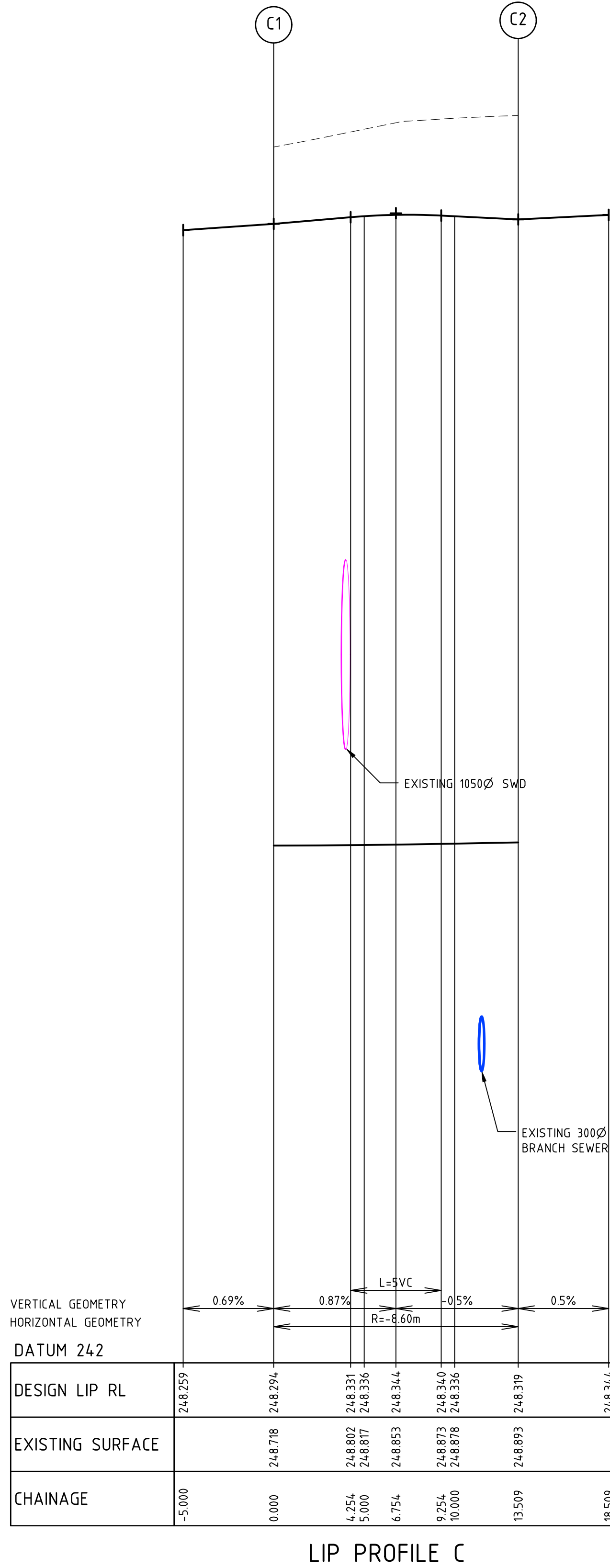
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
INTERSECTION DETAILS
SHEET 01 OF 04
Drawing No. 11733ID01 Rev 1
Sheet No. 07 AS CONSTRUCTED
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| | | | |
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| REV | AMENDMENTS | DATE | APP'D. |

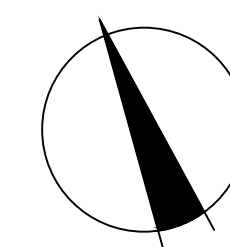
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Date 16/05/15
AN 1511017
Designed N.MIRATANA
Date 14/05/15
AN 1541202
Verified S.LEA
Date 03/06/15
AN 1061788
Audited B.GORDON
Date 10/11/15
AN 162639
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884759

| | |
|---|------------------------------------|
|  | EXISTING WATER MAIN |
|  | EXISTING GAS MAIN |
|  | EXISTING ELECTRICAL CABLE |
|  | EXISTING SEWER MAIN & MANHOLE |
|  | EXISTING TELECOMM. CABLE AND PIT |
|  | EXISTING ELEC. POLE & O'HEAD LINES |
|  | 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 EXISTING 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

| | | |
|----|---|----------------------------|
| IN | W | WATER |
| | Rw | RECYCLED WATER |
| | T | TELECOMMUNICATIONS |
| | E | ELECTRICITY |
| | G | GAS |
| |  | STREET NAME SIGN |
| |  | REGRADE LOT AT MIN 1 IN 15 |
| |  | ASPHALT PAVEMENT |
| |  | CONC FOOTPATH / DRIVEWAY |
| |  | LIMIT OF WORKS |
| |  | FILLING OVER 300mm |
| | 155.0 | FINISHED SURFACE CONTOUR |

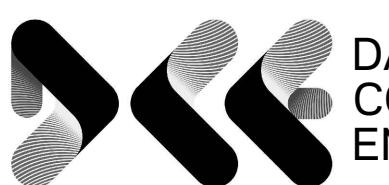


Coords: MGA
Levels: AHD

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
INTERSECTION DETAILS
SHEET 02 OF 04
Drawing No. 11733ID02 Rev 1
Sheet No. 08 AS CONSTRUCTED
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| CURVE NO | I | RADIUS | ARC | A | B | X | Y | L | MID POINT RL |
|----------|--------|--------|-------|-------|-------|-------|-------|-------|--------------|
| L1 - L2 | 64.849 | 2.300 | 2.603 | 0.359 | 0.267 | 0.642 | 0.591 | 0.651 | 248.973 |
| L2 - L3 | 64.849 | 1.700 | 1.924 | 0.265 | 0.197 | 0.475 | 0.437 | 0.481 | 248.987 |

AS CONSTRUCTED

| | | | |
|-----|--------------------|----------|--------|
| | | | |
| 1 | AS CONSTRUCTED | 22/04/16 | TL |
| 0 | CONSTRUCTION ISSUE | 13/11/15 | TL |
| REV | AMENDMENTS | DATE | APP'D. |







Drawn K.PAGE
Date 16/05/15
AN 1511017
Designed N.MIRATANA
Date 14/05/15
AN 1541203
Verified S.LEA
Date 03/06/15
AN 1061789
Audited B.GORDON
Date 10/11/15
AN 162640
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884760

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.

| | |
|---|------------------------------------|
|  | EXISTING WATER MAIN |
|  | EXISTING GAS MAIN |
|  | EXISTING ELECTRICAL CABLE |
|  | EXISTING SEWER MAIN & MANHOLE |
|  | EXISTING TELECOM. CABLE AND PIT |
|  | EXISTING ELEC. POLE & O'HEAD LINES |
|  | 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

- S— 300Ø EXISTING BRANCH SEWER MAIN
- S— SEWER MAIN AND MANHOLE
- []— STORMWATER DRAIN & PIT
- []— SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
- PROPERTY INLETS
- H— HOUSE DRAIN
- GC— GAS CONDUIT
- WATER CONDUIT
- RECYCLED WATER CONDUIT
- TC— TELECOMM. CONDUIT
- PERMANENT SURVEY MARK

| | | |
|----|---|----------------------------|
| IN | W | WATER |
| | Rw | RECYCLED WATER |
| | T | TELECOMMUNICATIONS |
| | E | ELECTRICITY |
| | G | GAS |
| |  | STREET NAME SIGN |
| |  | REGRADE LOT AT MIN 1 IN 15 |
| |  | ASPHALT PAVEMENT |
| |  | CONC FOOTPATH / DRIVEWAY |
| |  | LIMIT OF WORKS |
| |  | FILLING OVER 300mm |
| | 155.0 | FINISHED SURFACE CONTOUR |

merrifield
MAB GOC

Coors: MGA
Levels: AHD

Hor 1:200 0m 2m 4m 8m 12m
Ver 1:20 0m 0.2m 0.4m 0.8m 1m

Scale @ A1/A3 1:200/1:400

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
INTERSECTION DETAILS
SHEET 03 OF 04
Drawing No. 11733ID03 Rev 1
Sheet No. 09 **AS CONSTRUCTED**
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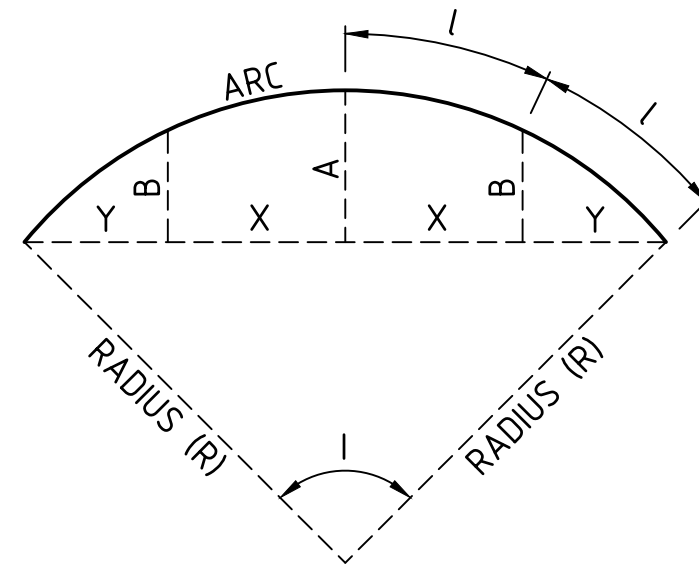
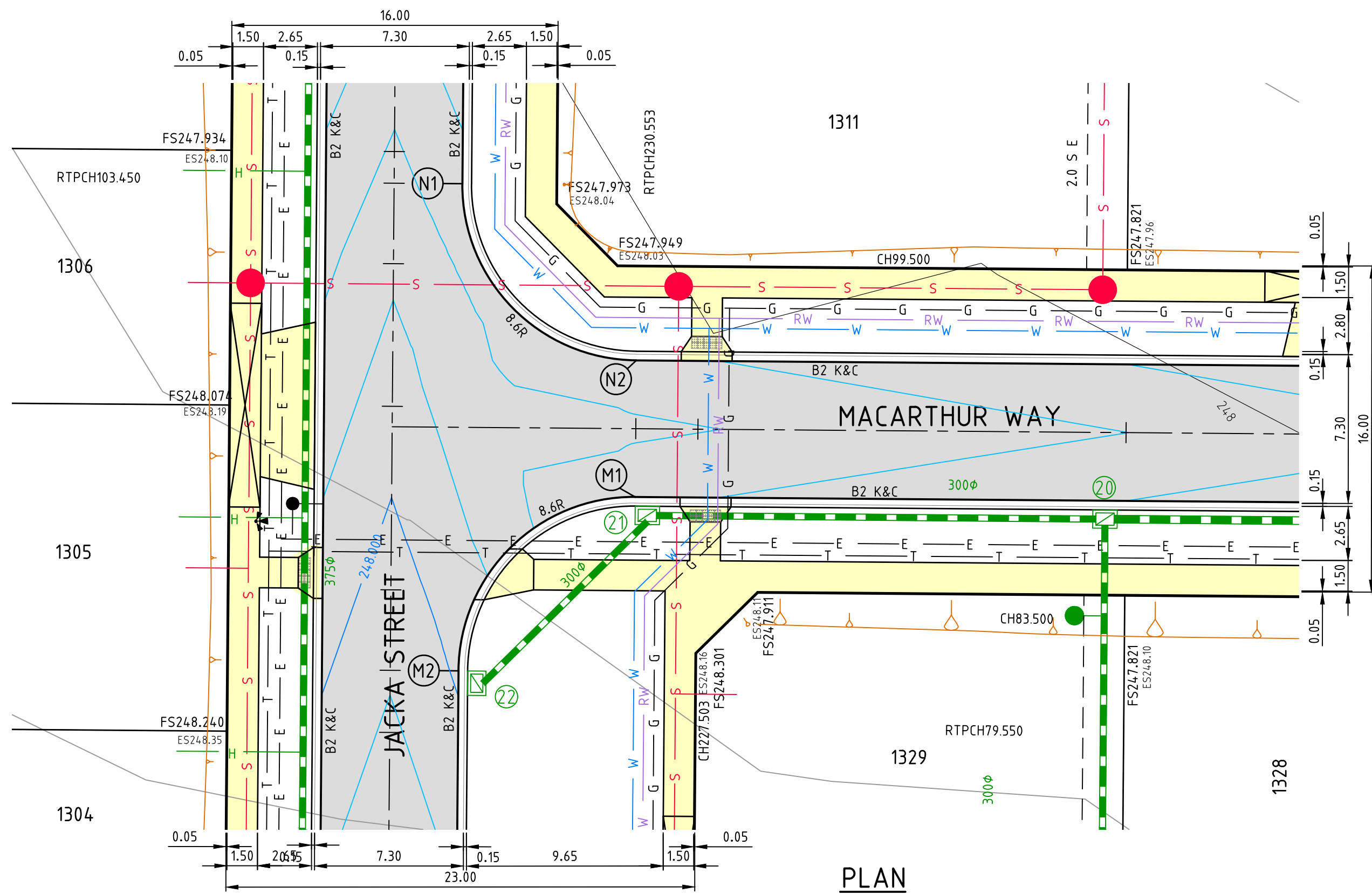
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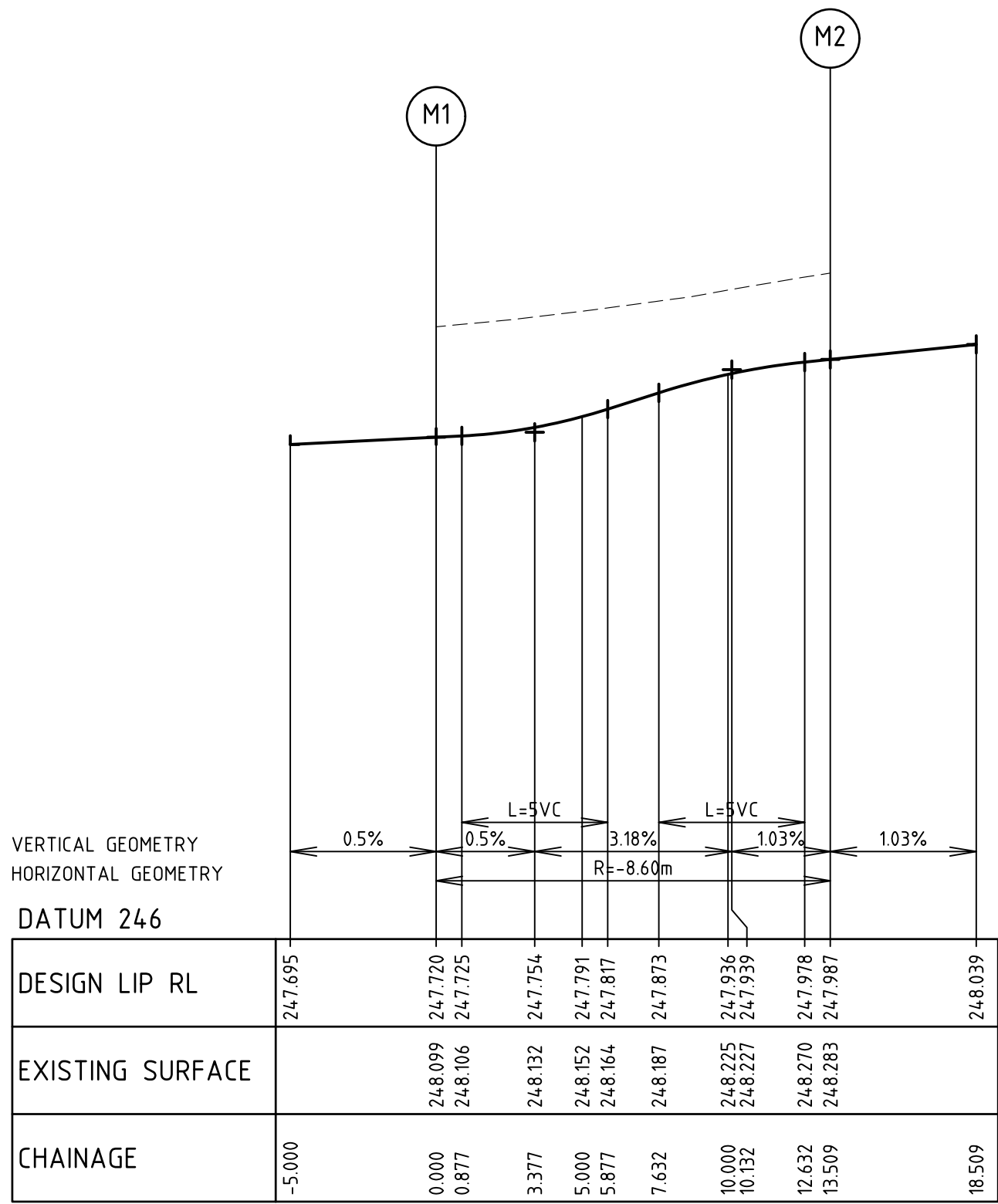
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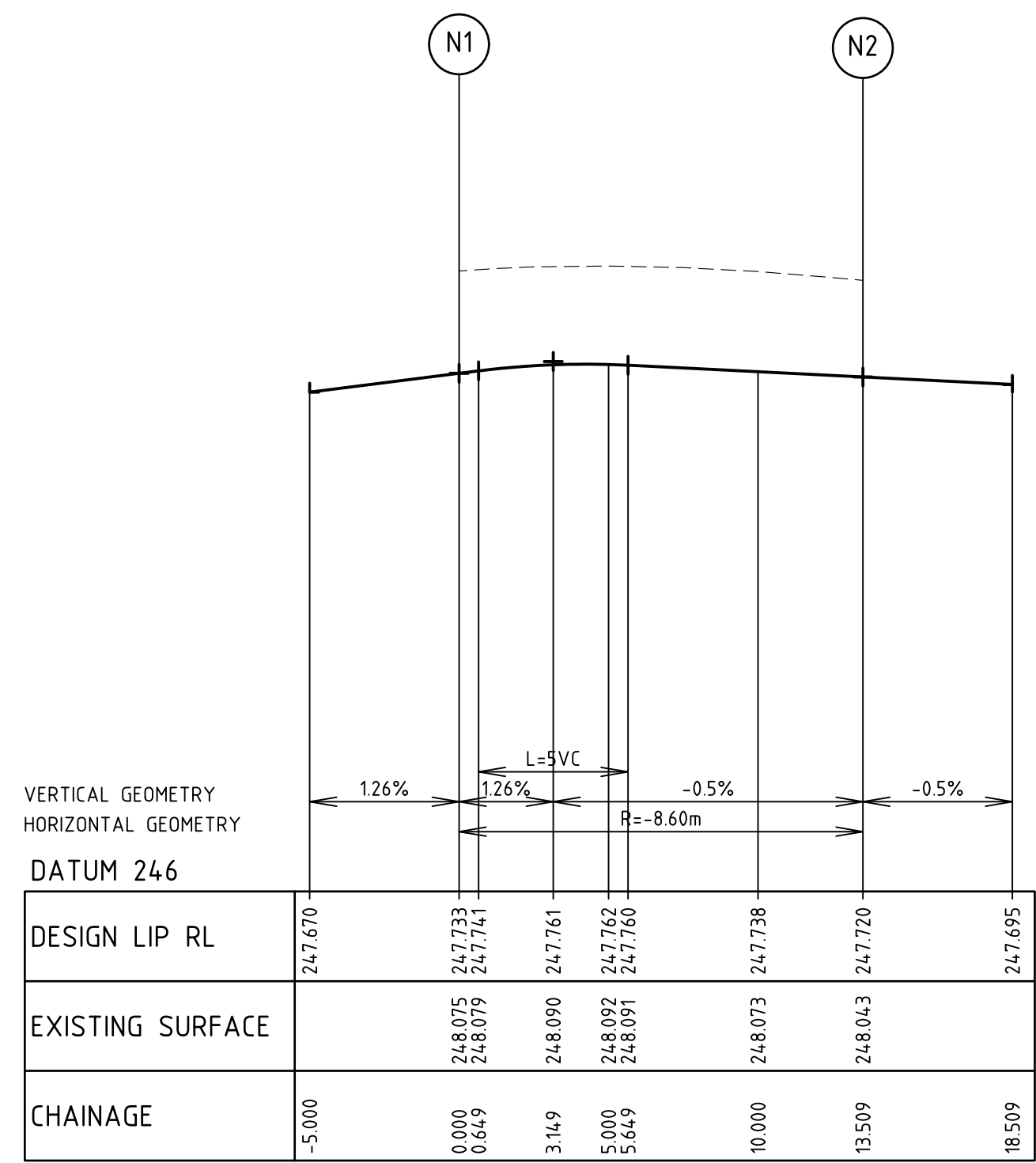
Drawing File: G:\design\11733-merrifield - precinct 1 - stage 13\road\RD\11733D04.dwg - 11733D04
Date/Time: Fri Apr 22, 2016 - 11:35am - ByronShade



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.



LIP PROFILE M



LIP PROFILE N

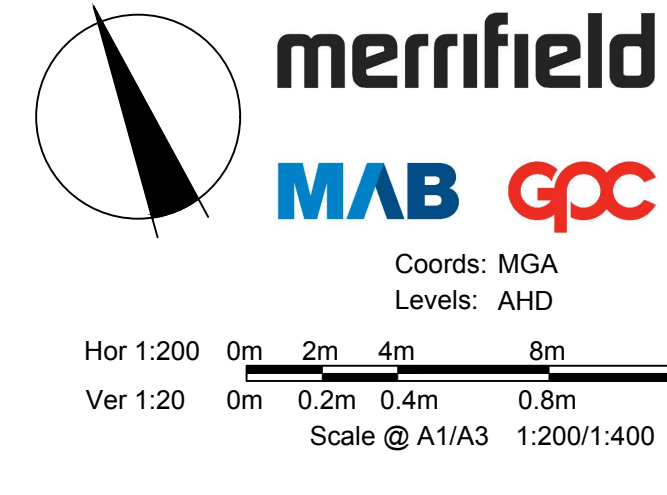
AS CONSTRUCTED

| REV | AMENDMENTS | DATE | APP'D |
|-----|--------------------|----------|-------|
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| 0 | CONSTRUCTION ISSUE | 13/11/15 | TL |

Drawn K.PAGE
Date 16/05/15
AN 1511017
Designed N.MIRATANA
Date 14/05/15
AN 1541204
Verified S.LEA
Date 03/06/15
AN 1081790
Audited B.GORDON
Date 10/11/15
AN 162641
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884761

- Ex W EXISTING WATER MAIN
- Ex G 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 P EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- EXISTING TREES TO BE REMOVED
- FINISHED SURFACE LEVEL
- OPEN EARTH DRAIN (O.E.D.)

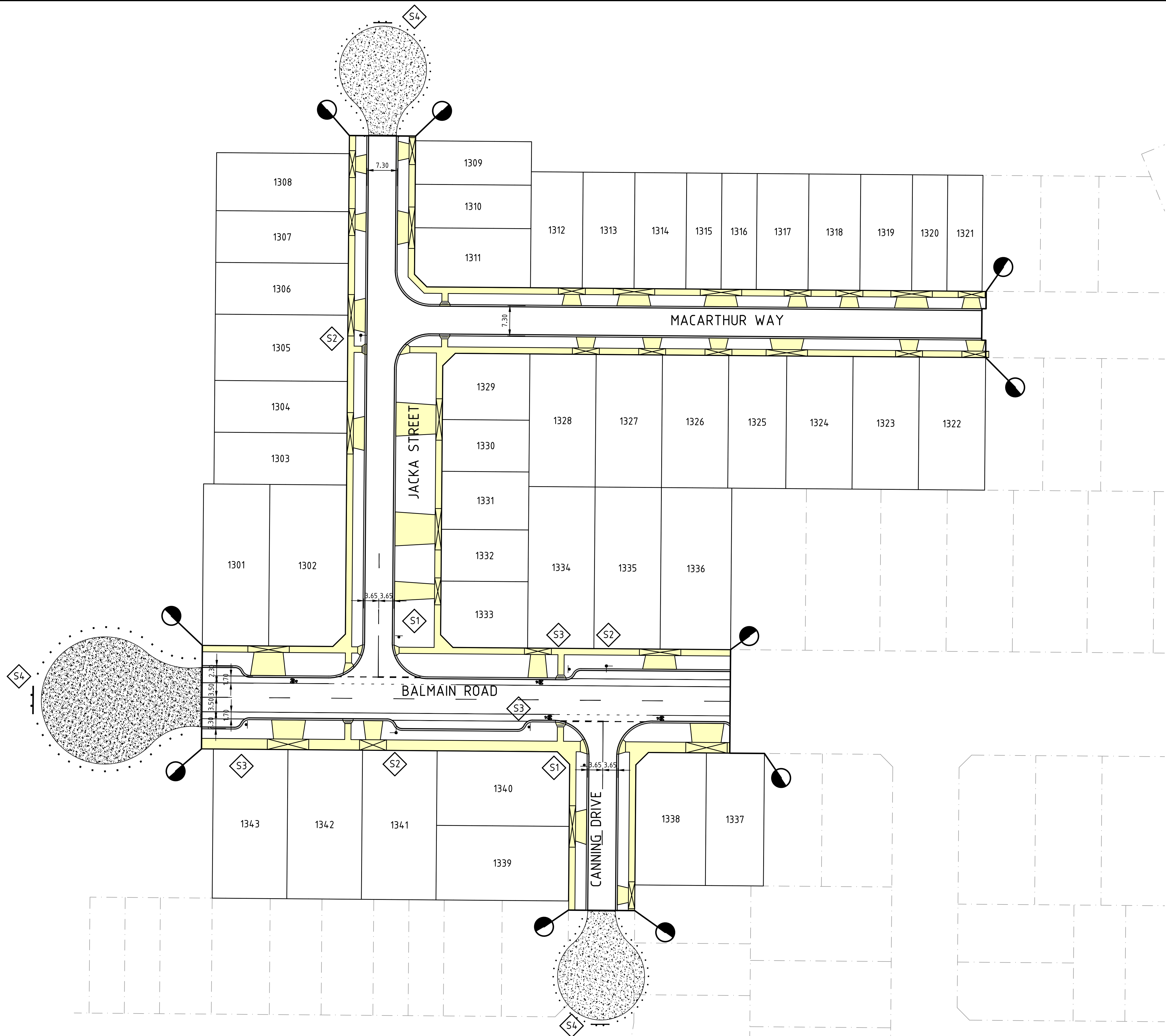
- 300Ø EXISTING BRANCH SEWER MAIN
- SEWER MAIN AND MANHOLE
- STORMWATER DRAIN & PIT
- SW DRAIN & PIT CONSTRUCTED IN PREVIOUS STAGES
- PROPERTY INLETS
- HOUSE DRAIN
- GAS CONDUIT
- WATER CONDUIT
- RECYCLED WATER CONDUIT
- TELECOMM. CONDUIT
- PERMANENT SURVEY MARK
- W WATER
- RECYCLED WATER
- TELECOMMUNICATIONS
- E ELECTRICITY
- G GAS
- STREET NAME SIGN
- REGRADE LOT AT MIN 1 IN 150
- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LIMIT OF WORKS
- FILLING OVER 300mm
- FINISHED SURFACE CONTOUR



MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
INTERSECTION DETAILS
SHEET 04 OF 04
Drawing No. 11733ID04
Rev 1
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LINEMARKING LEGEND

- 300mm WIDE GIVE WAY HOLDING LINE
- 200mm WIDE GIVE WAY LINE
- 200mm WIDE CONTINUITY LINE
- 100mm WIDE BARRIER LINE
- RAISED REFLECTIVE PAVEMENT MARKERS (SPACED AT 6m c/c UNLESS NOTED OTHERWISE)
- DENOTES TACTILE GROUND INDICATORS IN ACCORDANCE WITH AS. 1428

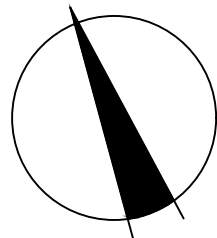
- NOTES:
- ALL WORKS TO BE IN ACCORDANCE WITH AS1742. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS LINEMARKING AND TRAFFIC MANUALS.
 - LINEMARKING SET-OUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
 - ALL LINEMARKING TO BE AS PER HUME CITY COUNCIL NOTE 37.
 - ANY OBSOLETE LINEMARKING IS TO BE REMOVED BY GRINDING, STRIPPING OR THE APPLICATION OF BITUMEN BINDER AND GRIT PRIOR TO "NEW" LINEMARKING BEING PLACED.
 - ALL RADII ARE TO LIP OF CHANNEL OR LINE OF KERB. ALL LANE WIDTHS ARE TO LIP OF KERB & CHANNEL
 - RRPM'S TO BE PROVIDED IN ACCORDANCE WITH AS1742.

SIGNAGE LEGEND

N.T.S

| SIGN | TYPE |
|---|------|
|  | S1 |
| R1-2 | |
|  | S2 |
| STREET NAME SIGN | |
|  | S3 |
| R7-1-4 | |
|  | S4 |
| D4-2-1 | |

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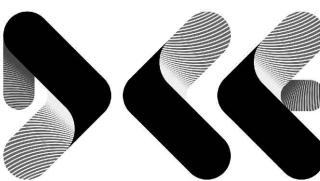


merrifield
MAB gpc

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 13
SIGNAGE AND LINE MARKING PLAN

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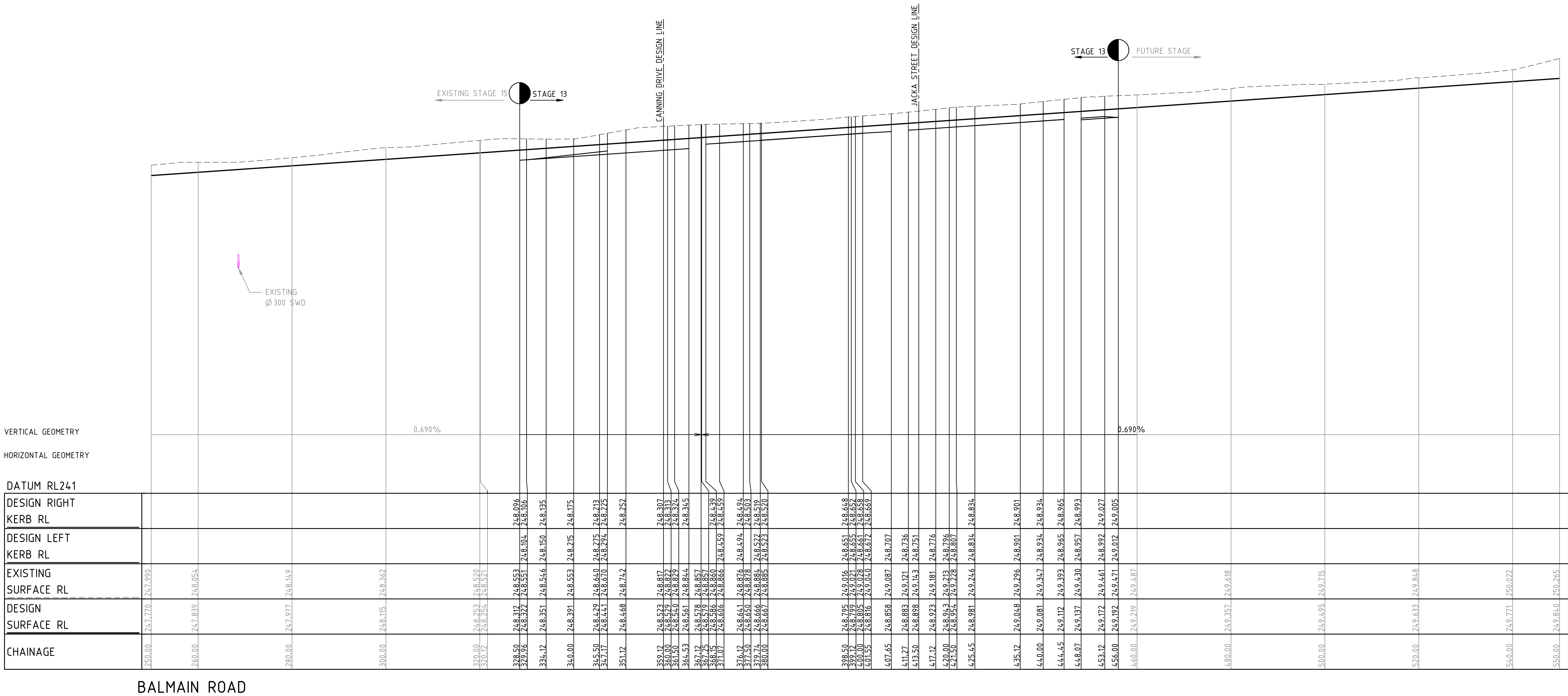
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AN 1541205
Verified S.LEA
Date 03/06/15
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Audited B.GORDON
Date 10/11/15
AN 162642
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884762

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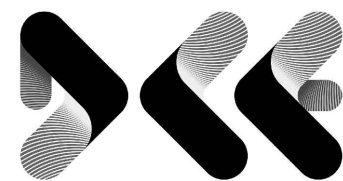
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Audited B.GORDON
Date 10/11/15
AN 162643
Approved T.LIAKOPOULOS
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Coords: MGA
Levels: AHD
Hor 1:500 0m 5m 10m 20m 30m
Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
LONGITUDINAL SECTIONS
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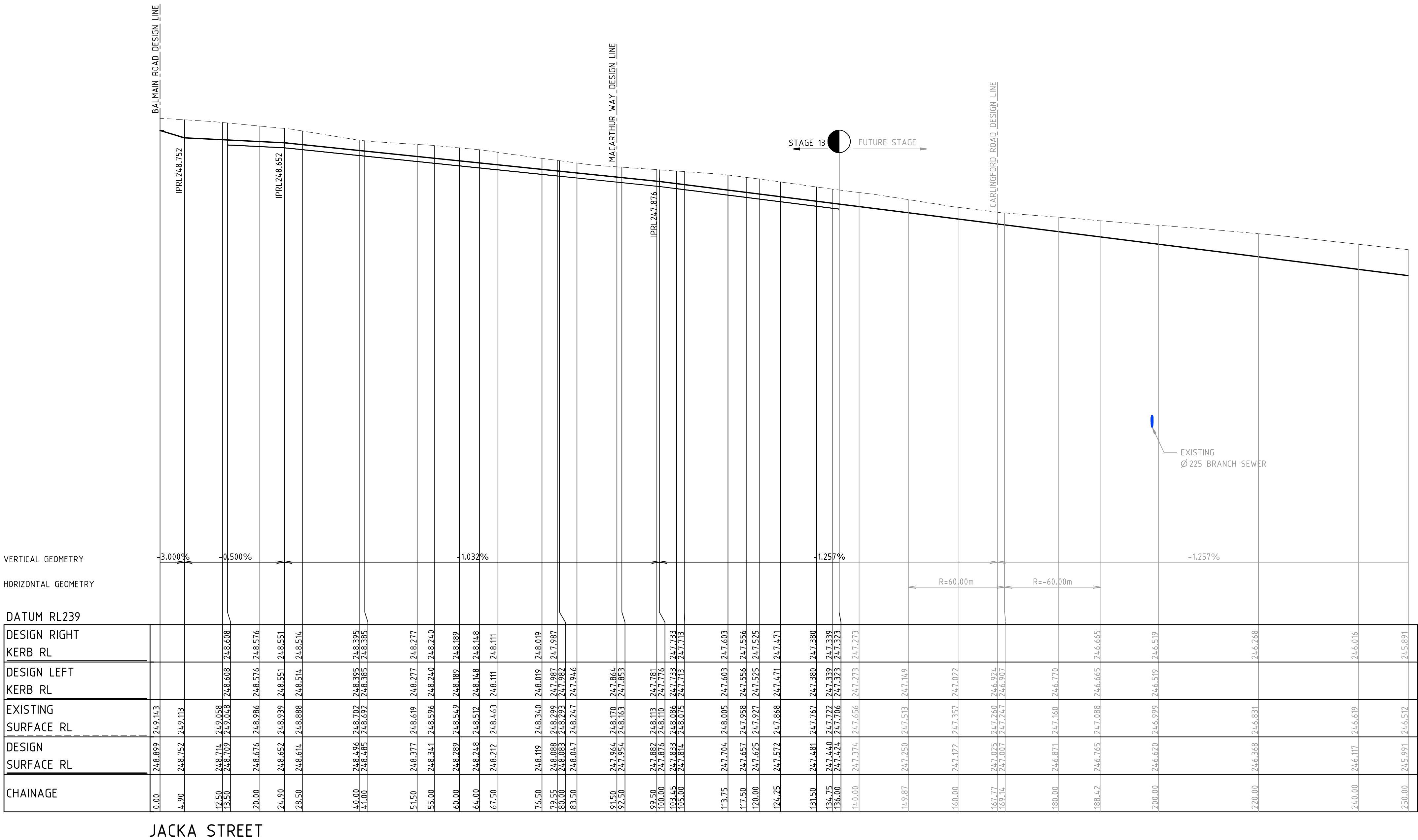


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Date 03/06/15
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Approved T.LIAKOPOULOS
Date 12/11/15
AN 884764

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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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
LONGITUDINAL SECTIONS
SHEET 02 OF 04
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Date 10/11/15
AN 162645
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884765

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Coords: MGA
Levels: AHD

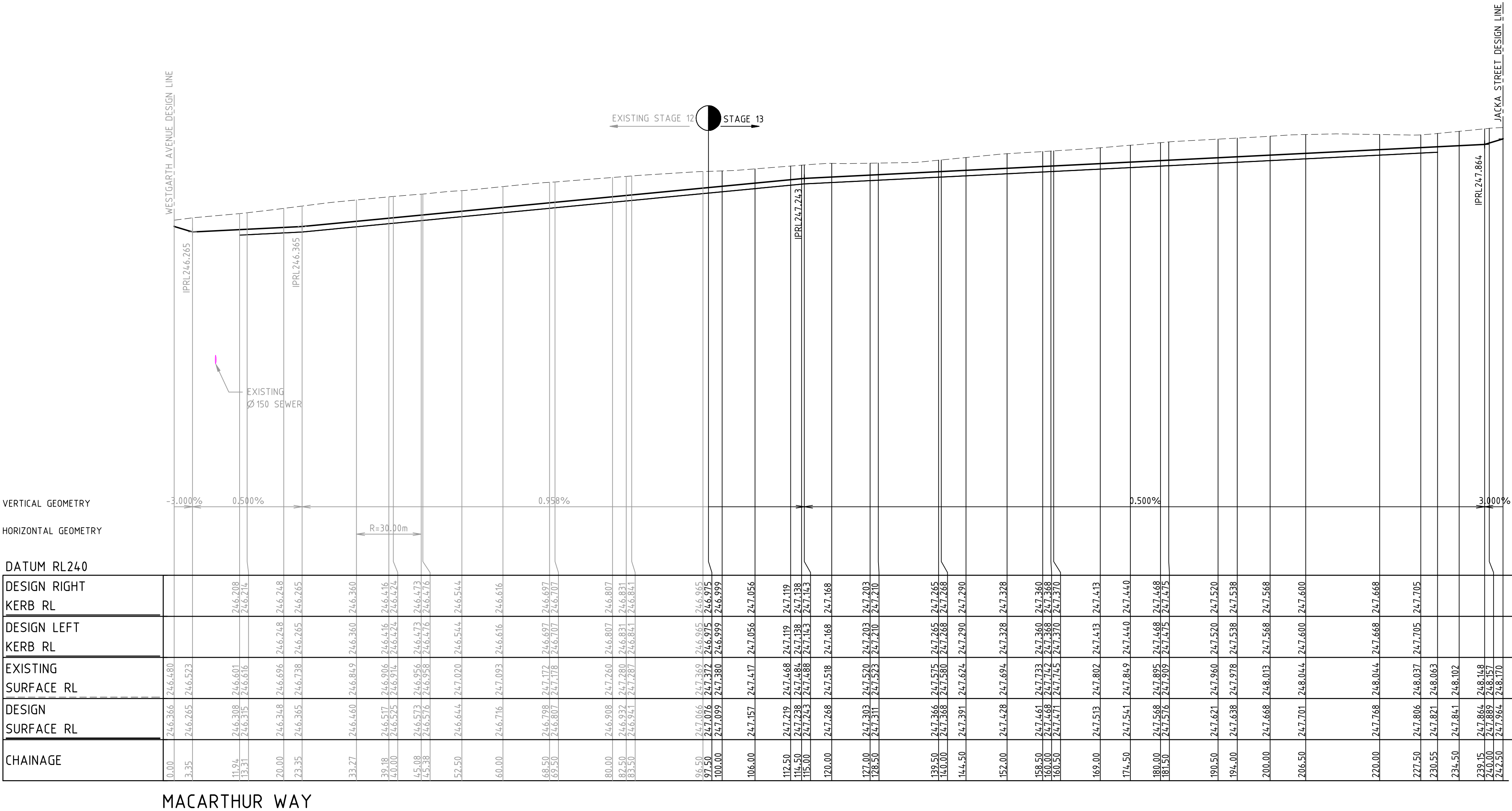
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MACARTHUR WAY

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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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
LONGITUDINAL SECTIONS
SHEET 04 OF 04
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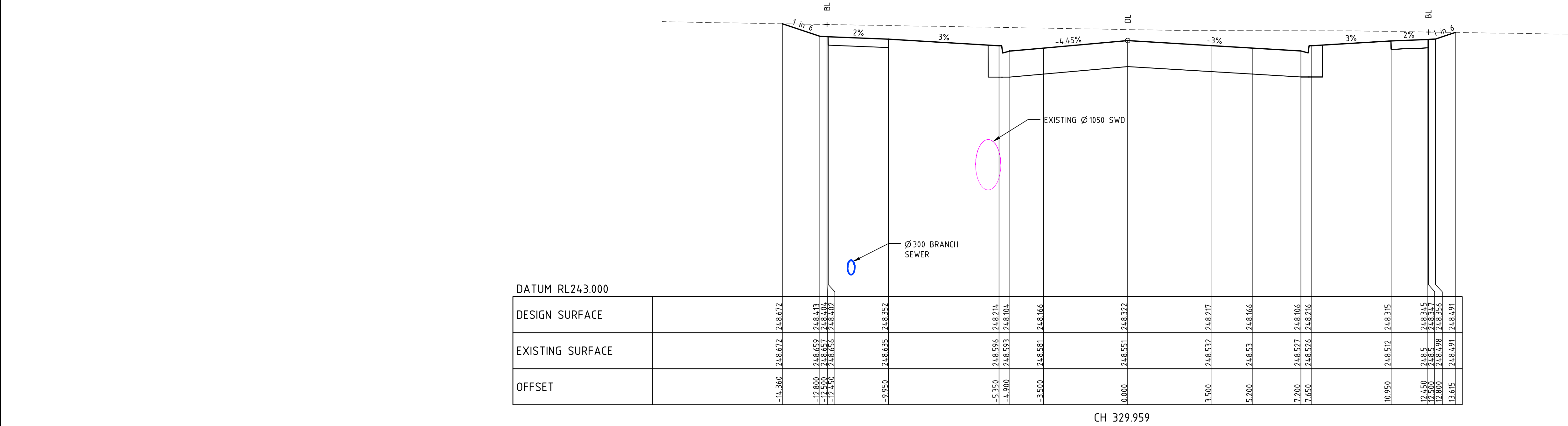
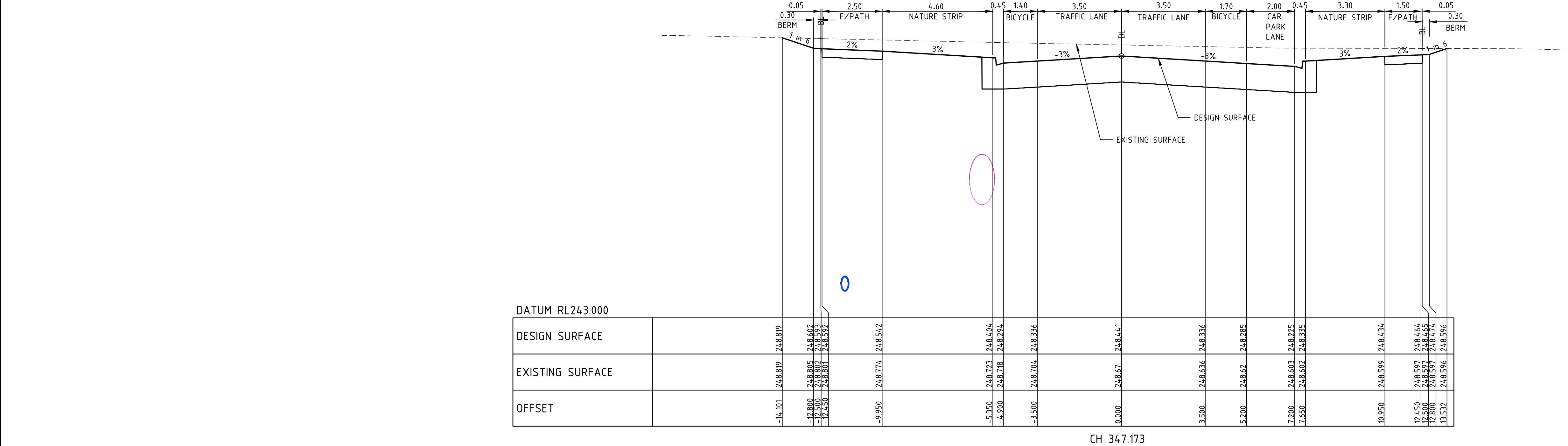
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Audited B.GORDON
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Date 12/11/15
AN 884767

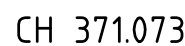
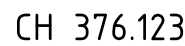
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merrifield
MAB gpc

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

MERRIFIELD DEVELOPMENT
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STAGE 13
CROSS SECTIONS
SHEET 01 OF 10
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Approved T.LIAKOPOULOS
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Coords: MGA
Levels: AHD

Coors: MGA
Levels: AHD

Hor 1:100 0m 1m 2m 4m 6m

Ver 1:50 0m 0.5m 1m 2m 3m

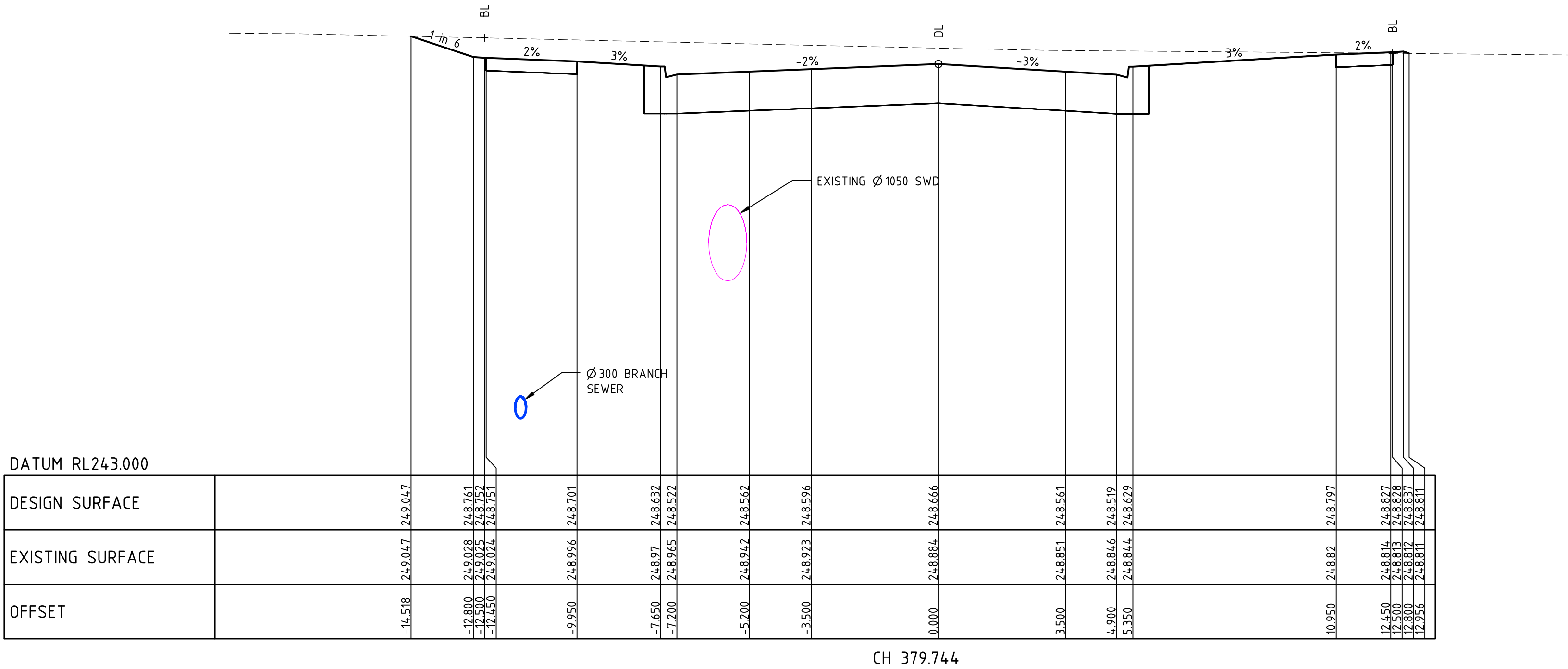
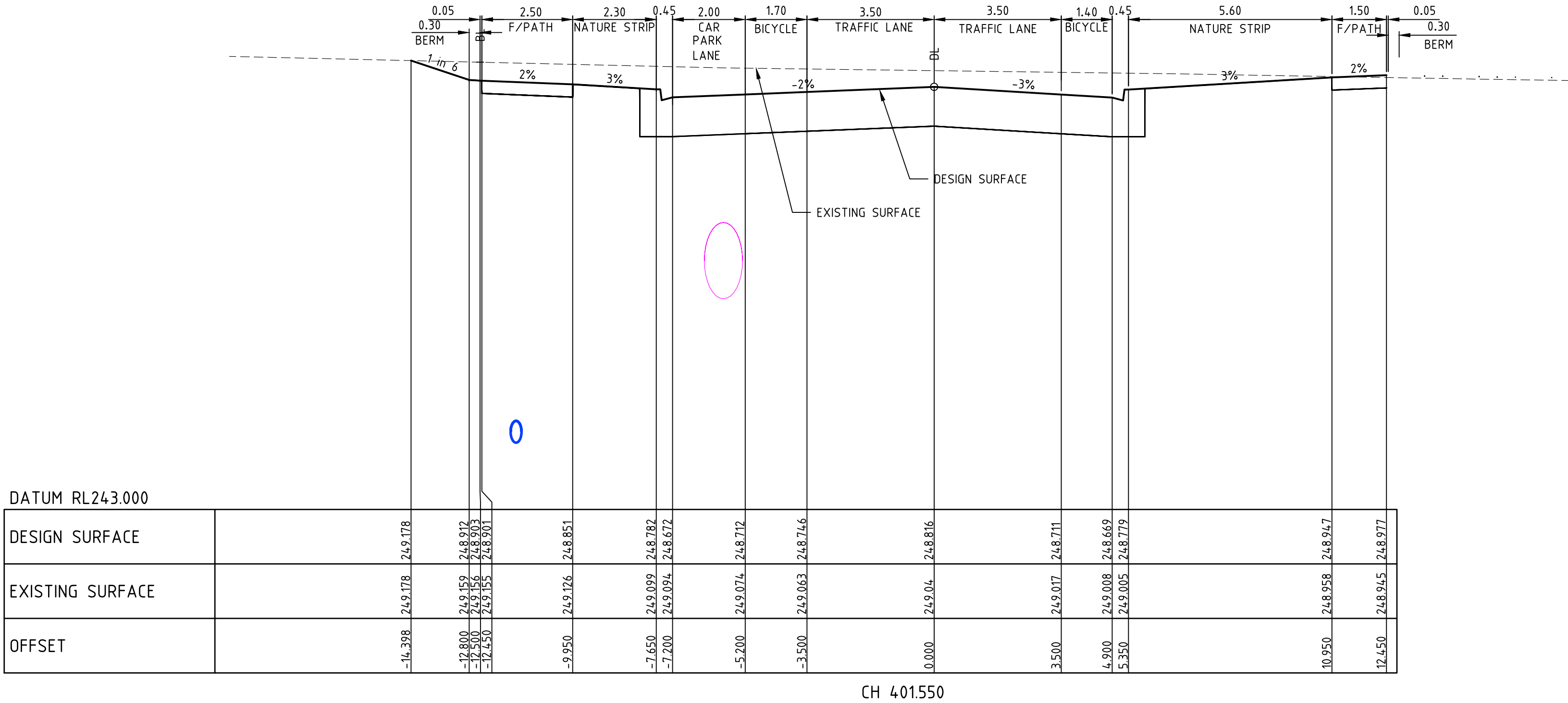
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MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
CROSS SECTIONS
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AN 162649
Approved T.LIAKOPOULOS
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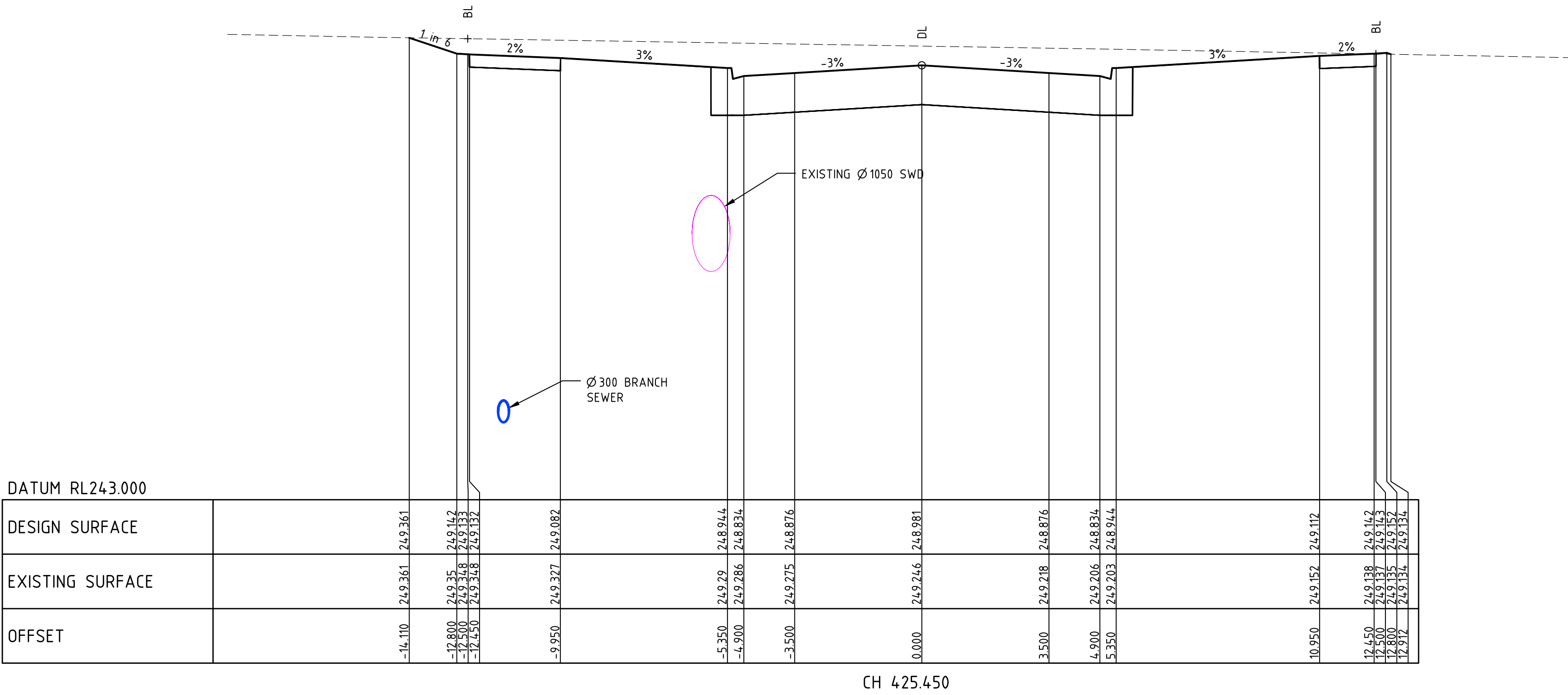
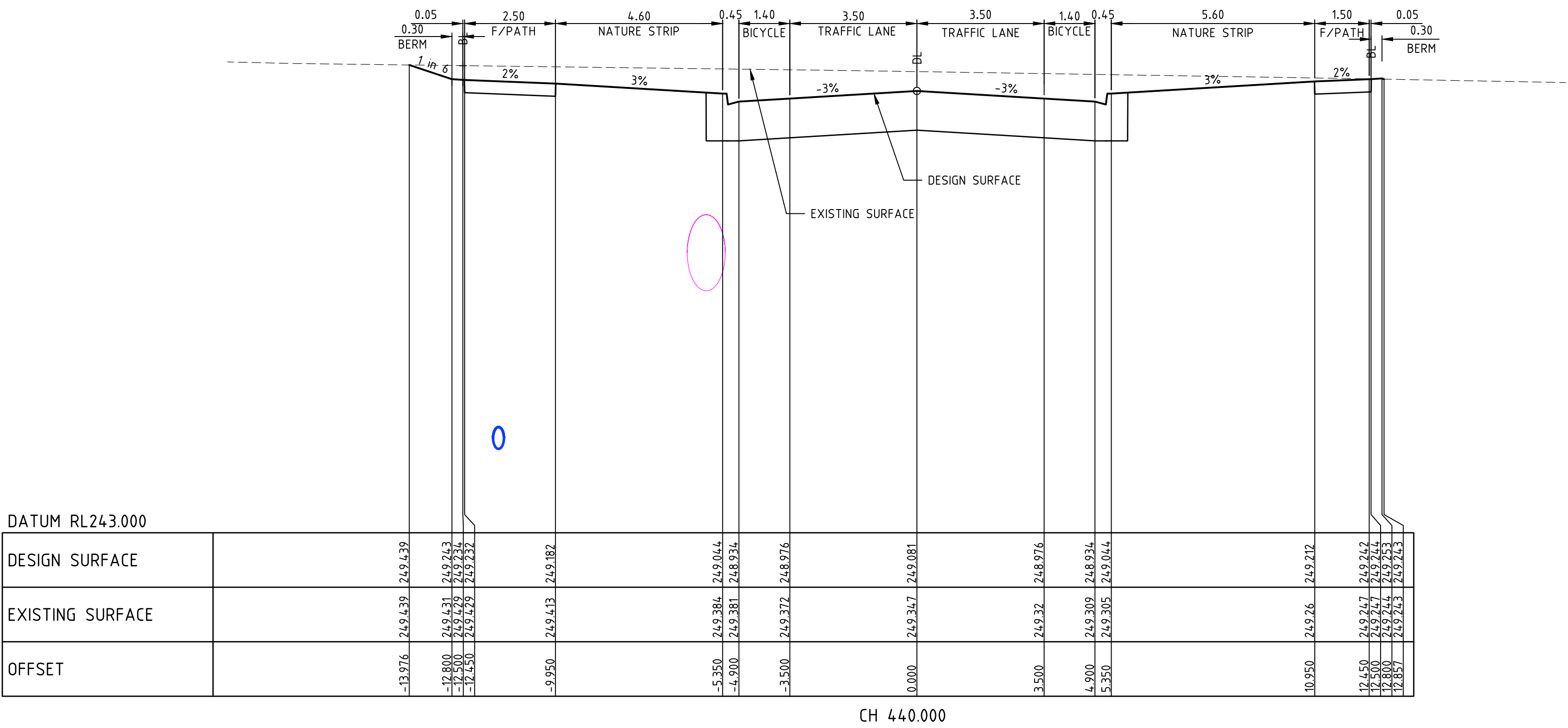
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MAB gpc

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Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
CROSS SECTIONS
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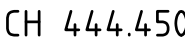
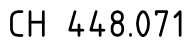
merrifield
MAB gpc

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Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
CROSS SECTIONS
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Date 12/11/15
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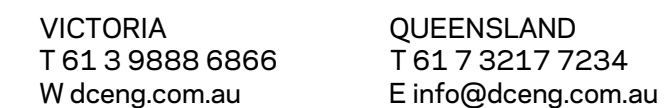
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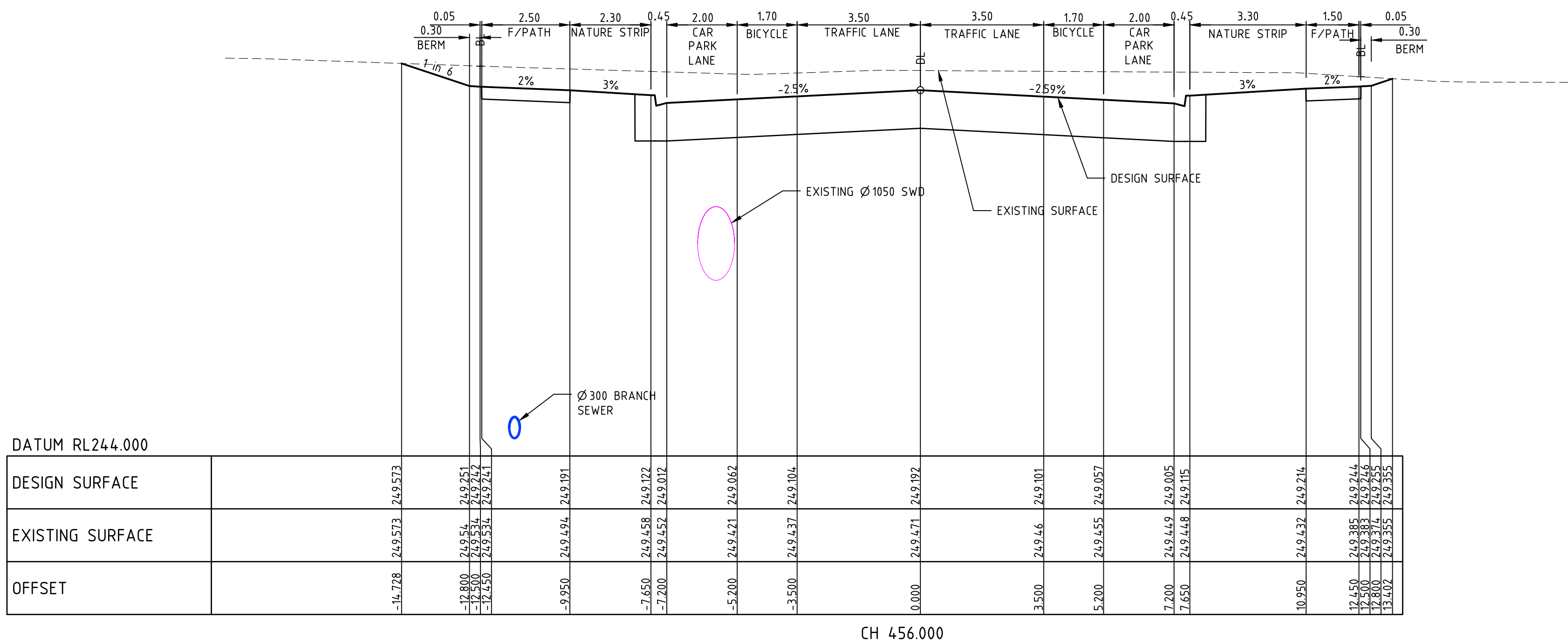
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MERRIFIELD DEVELOPMENT
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STAGE 13
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Date 10/11/15
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Date 12/11/15
AN 884772

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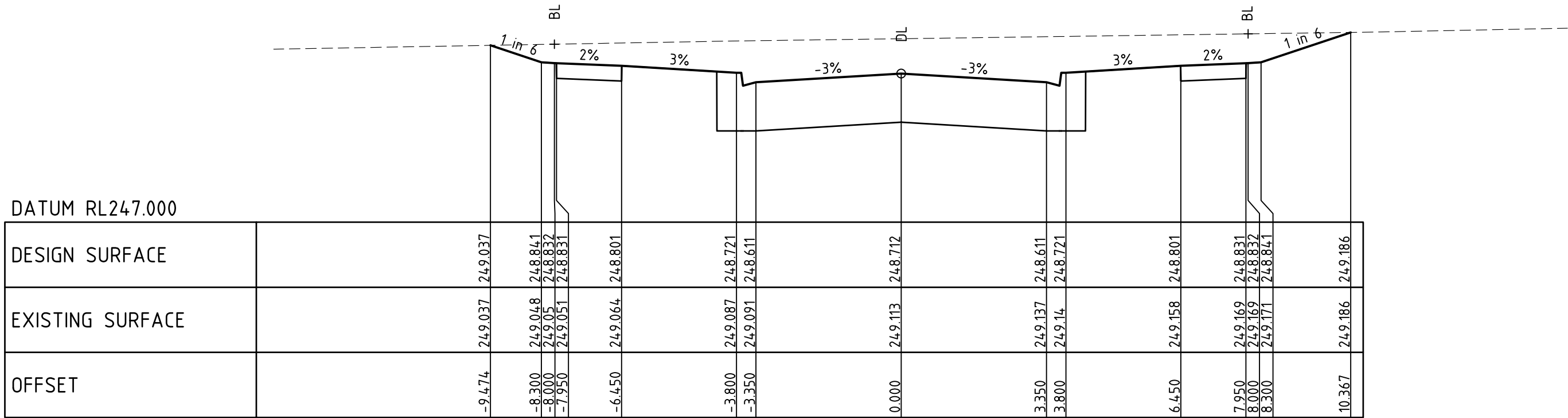
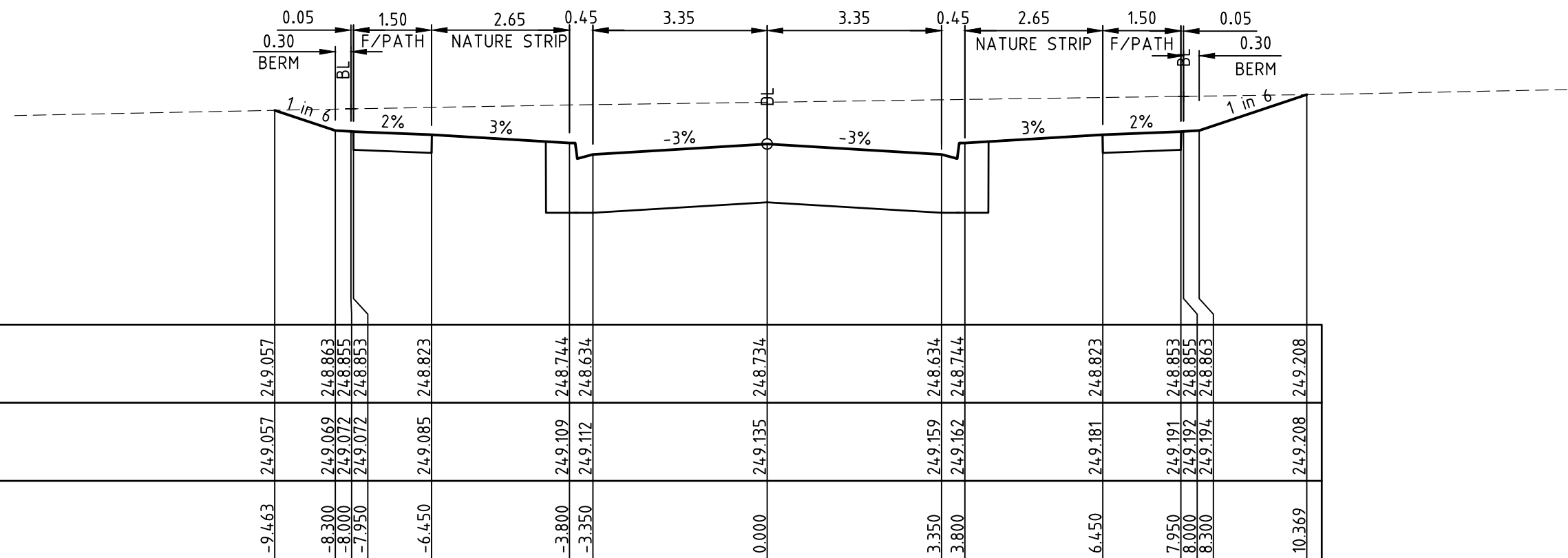
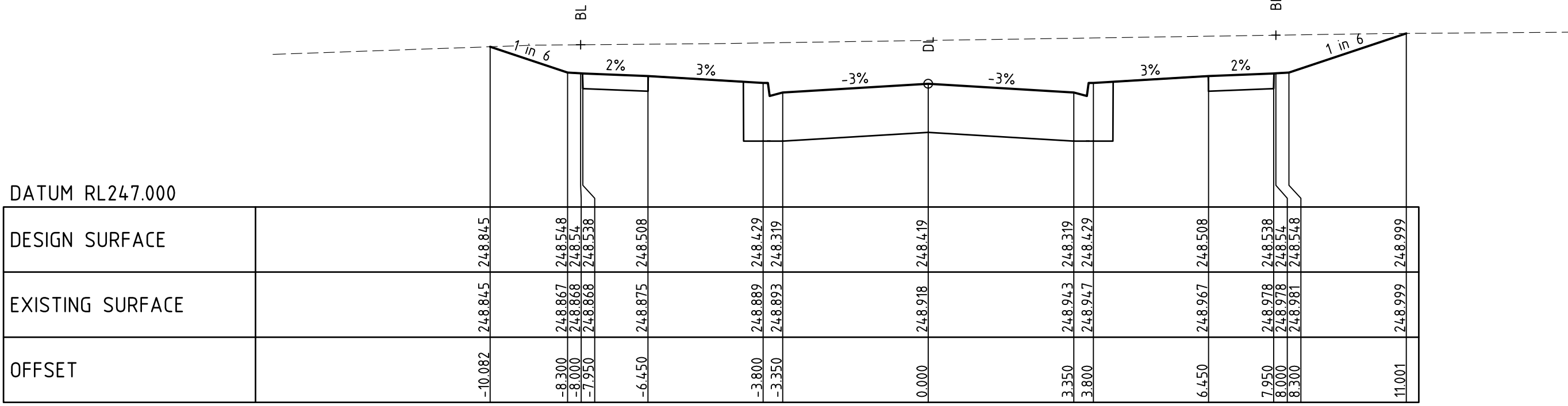
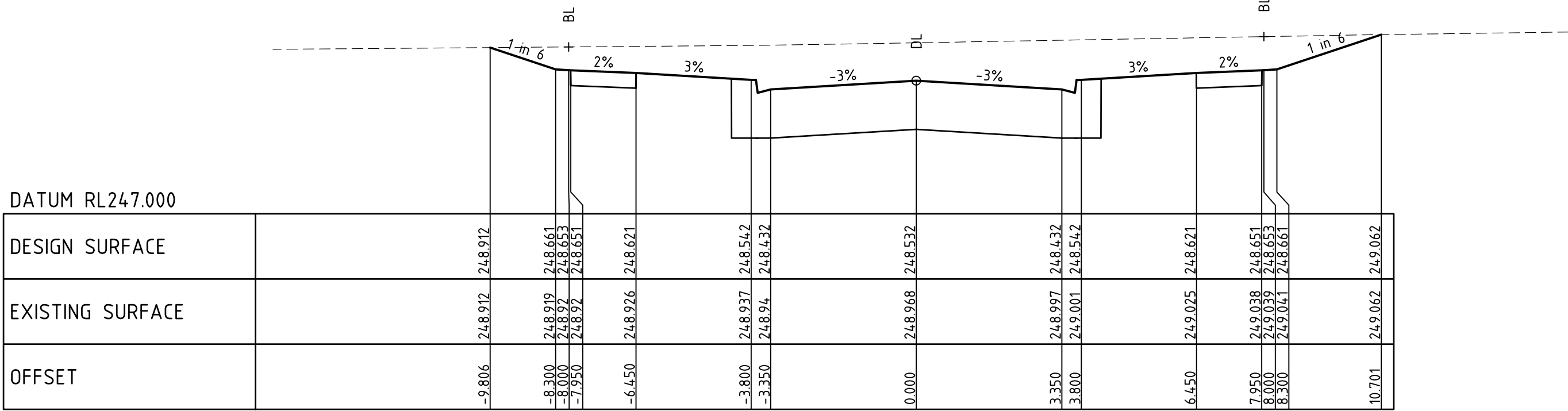
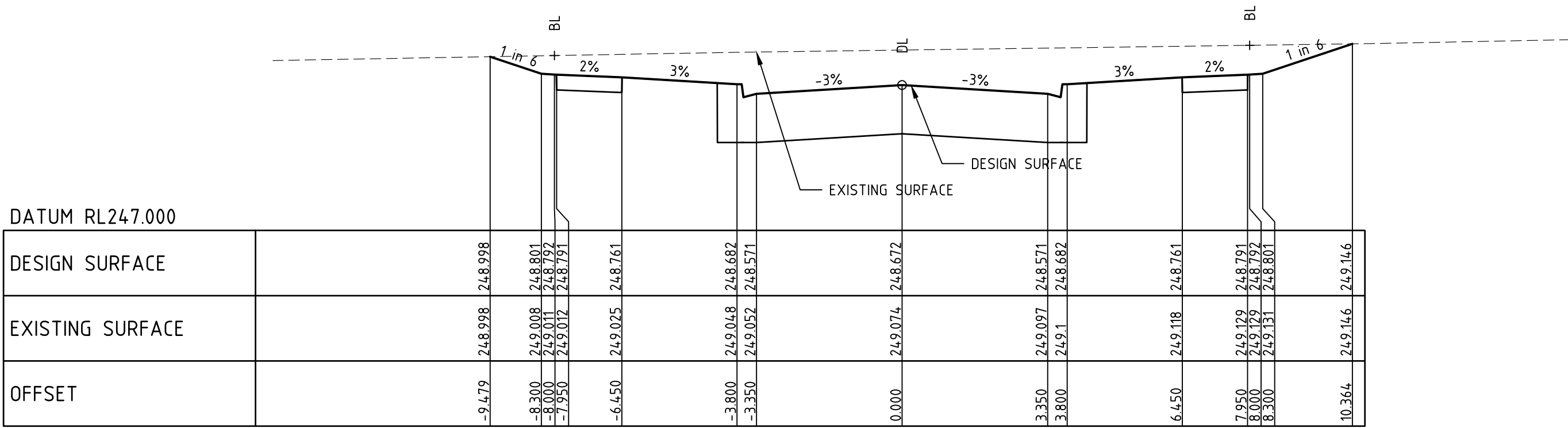


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Ver 1:50 0m 0.5m 1m 2m 3m
Scale @ A1/A3 1:100/1:200

MERRIFIELD DEVELOPMENT
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STAGE 13
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CANNING DRIVE

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Audited B.GORDON
Date 10/11/15
AN 162653
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884773

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Coords: MGA
Levels: AHD
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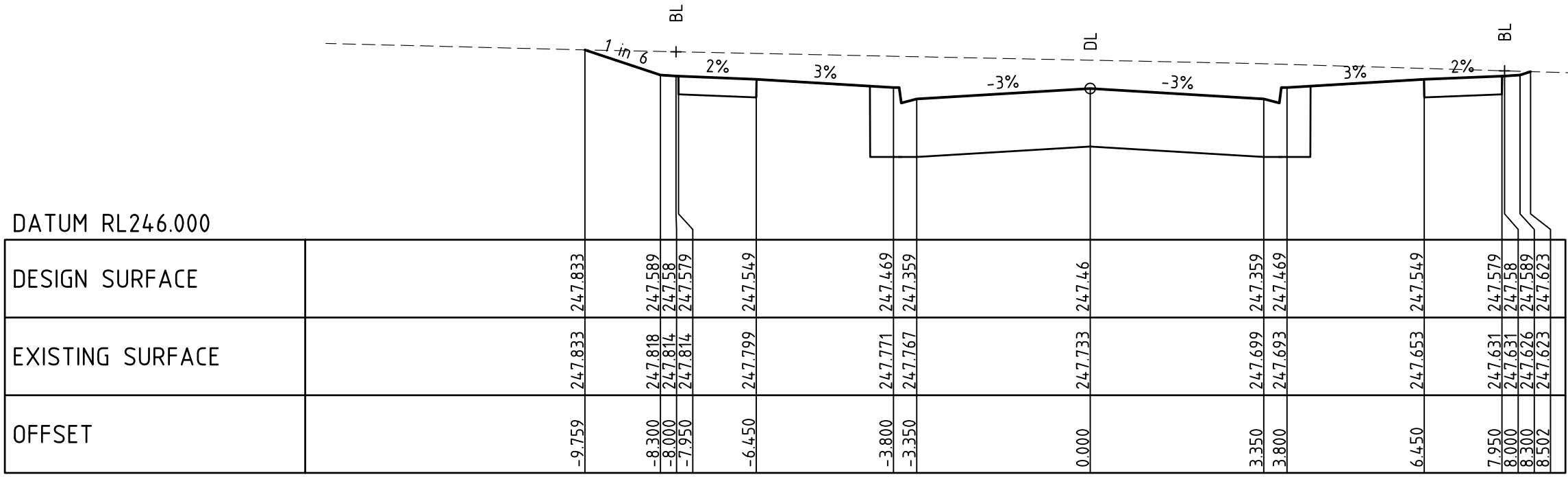
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STAGE 13
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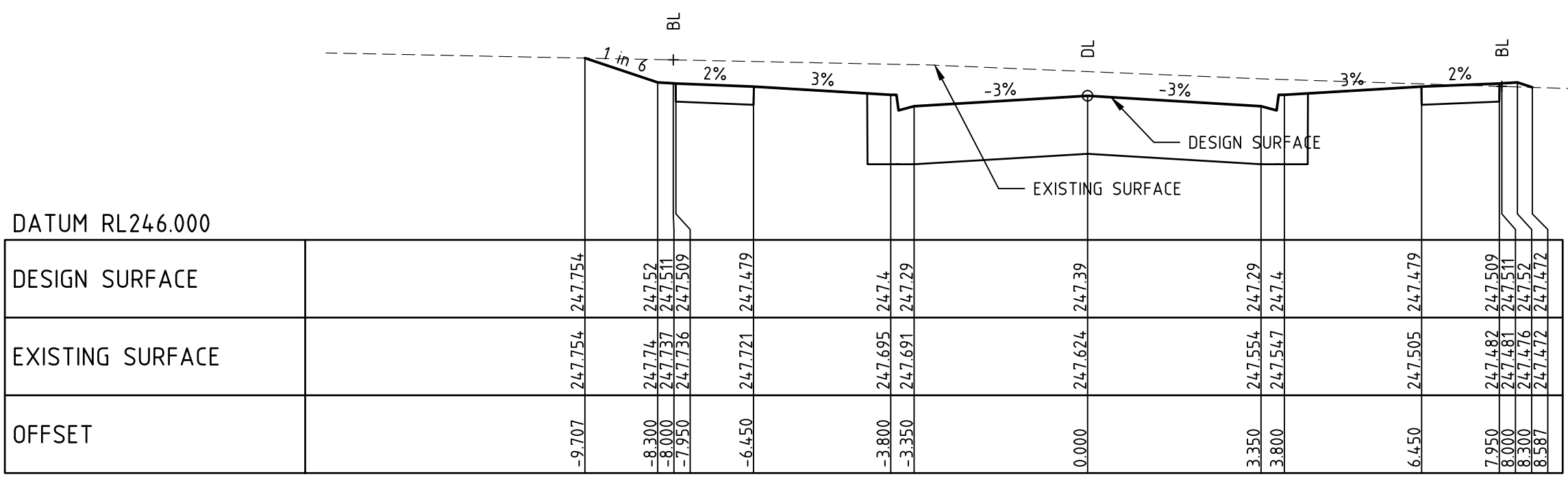
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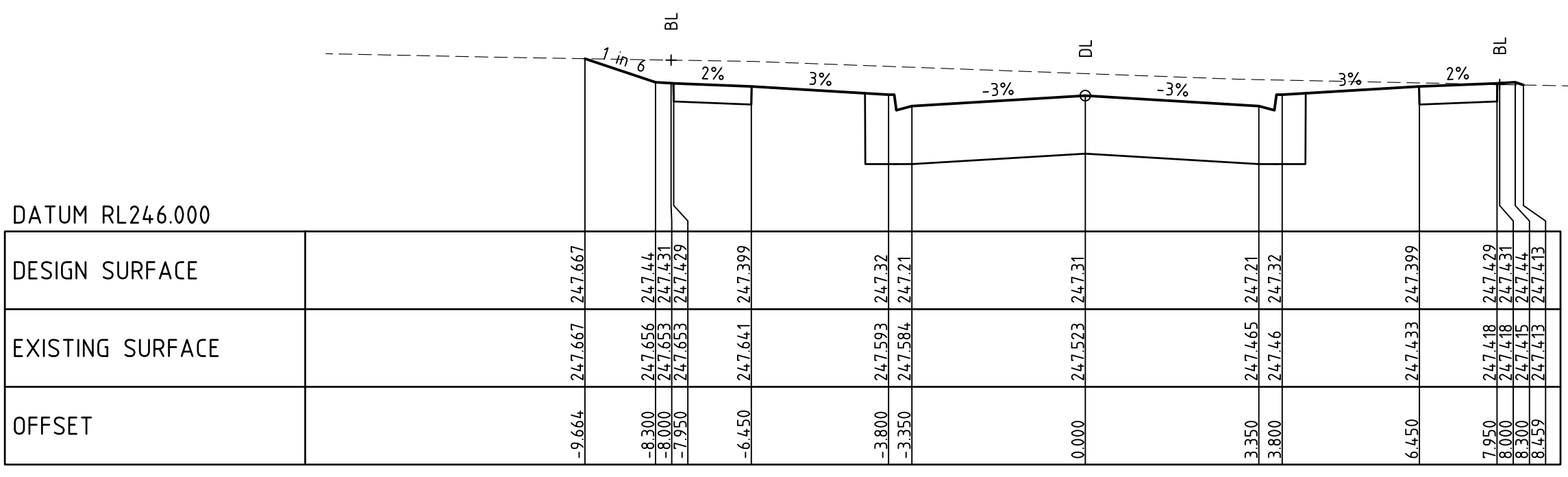
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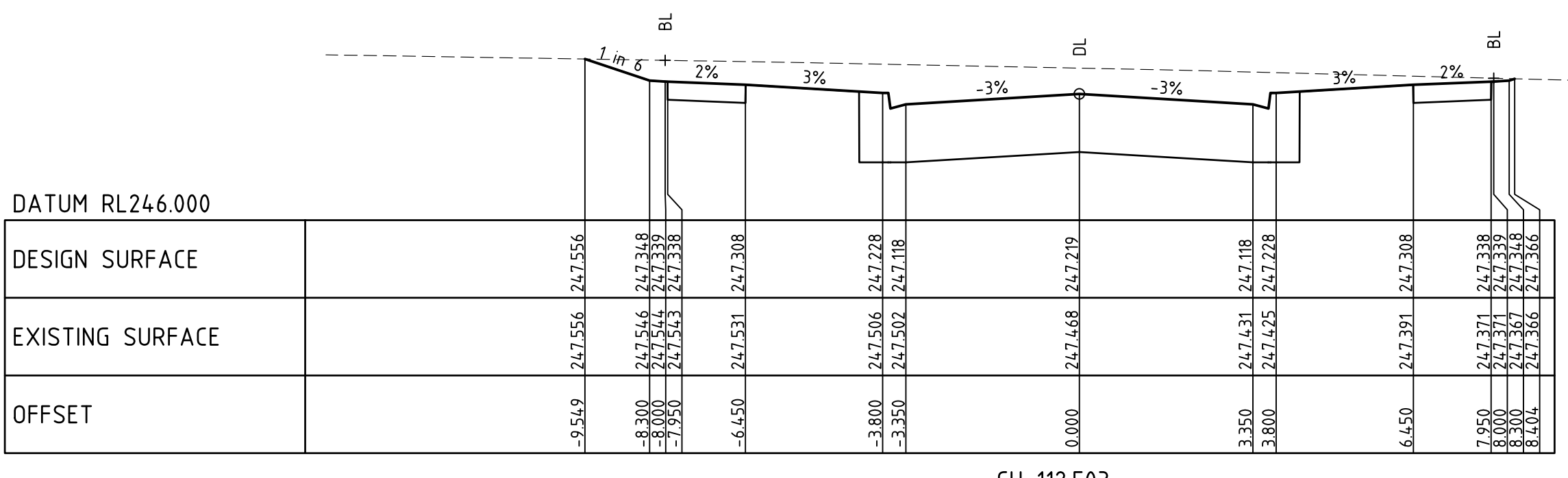
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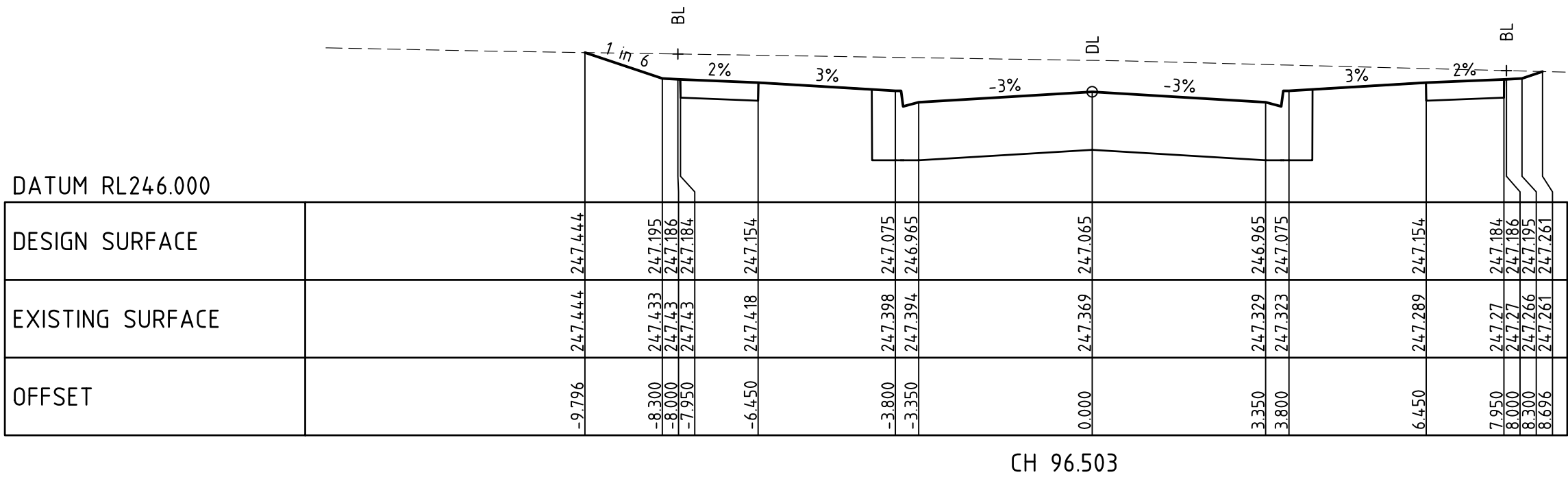
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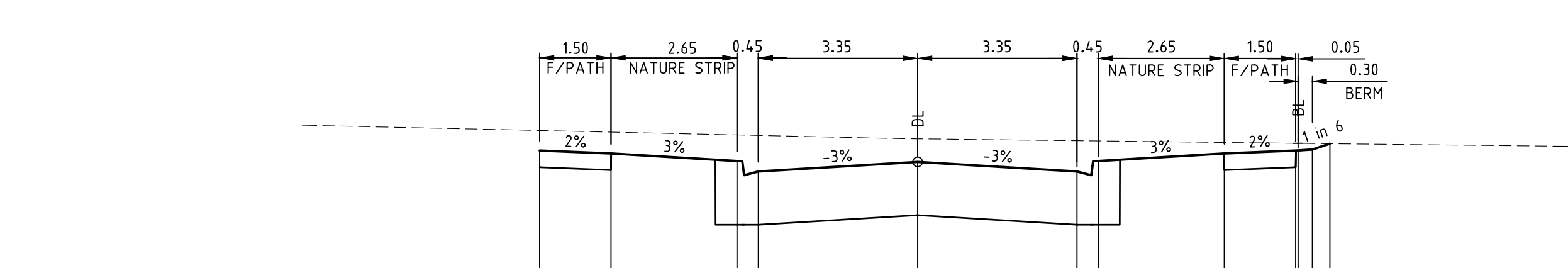


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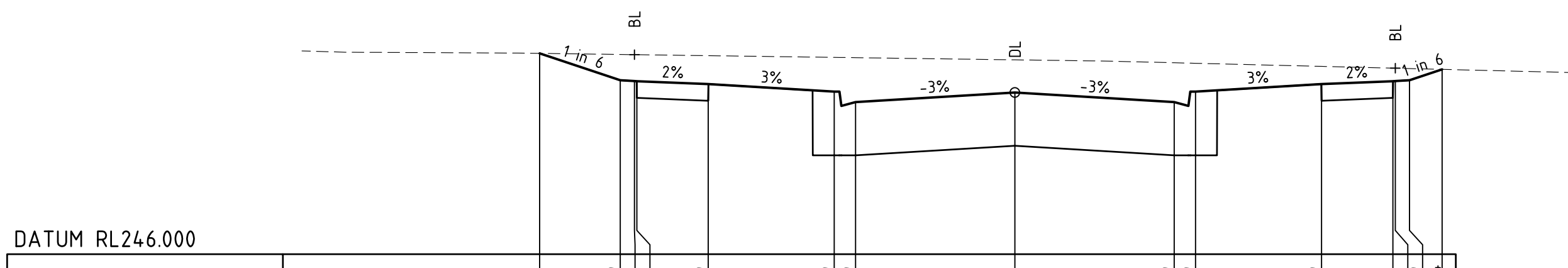


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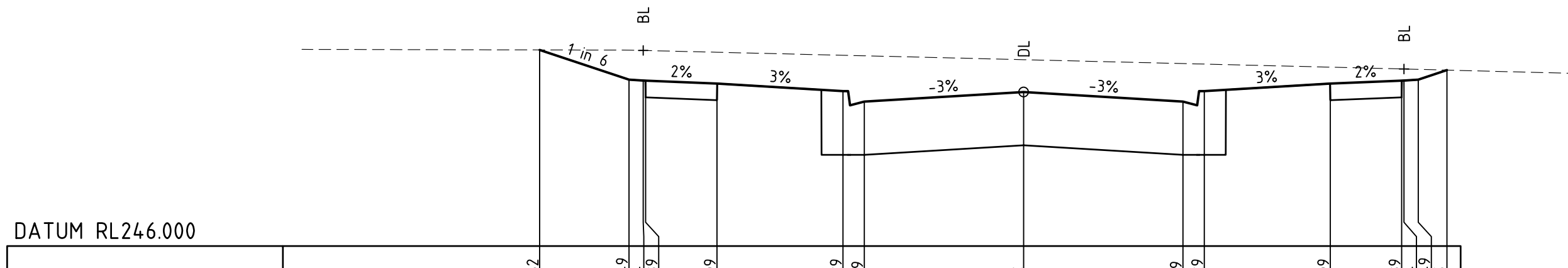
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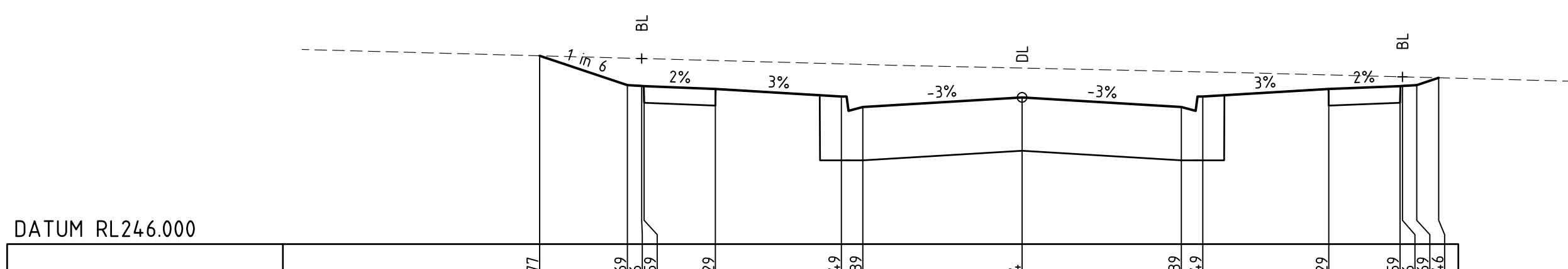
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CH 206.503



CH 190.503



CH 174.503

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| 0 | CONSTRUCTION ISSUE | 13/11/15 | TL |
| REV | AMENDMENTS | DATE | APP'D. |

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Date 16/05/15
AN 1511017
Designed N.MIRATANA
Date 14/05/15
AN 1541217
Verified S.LEA
Date 03/06/15
AN 1061803
Audited B.GORDON
Date 10/11/15
AN 162654
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884774

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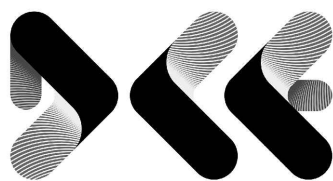
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merrifield

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
CROSS SECTIONS
SHEET 08 OF 10
Drawing No. 11733XS08 Rev 1
Sheet No. 23 AS CONSTRUCTED
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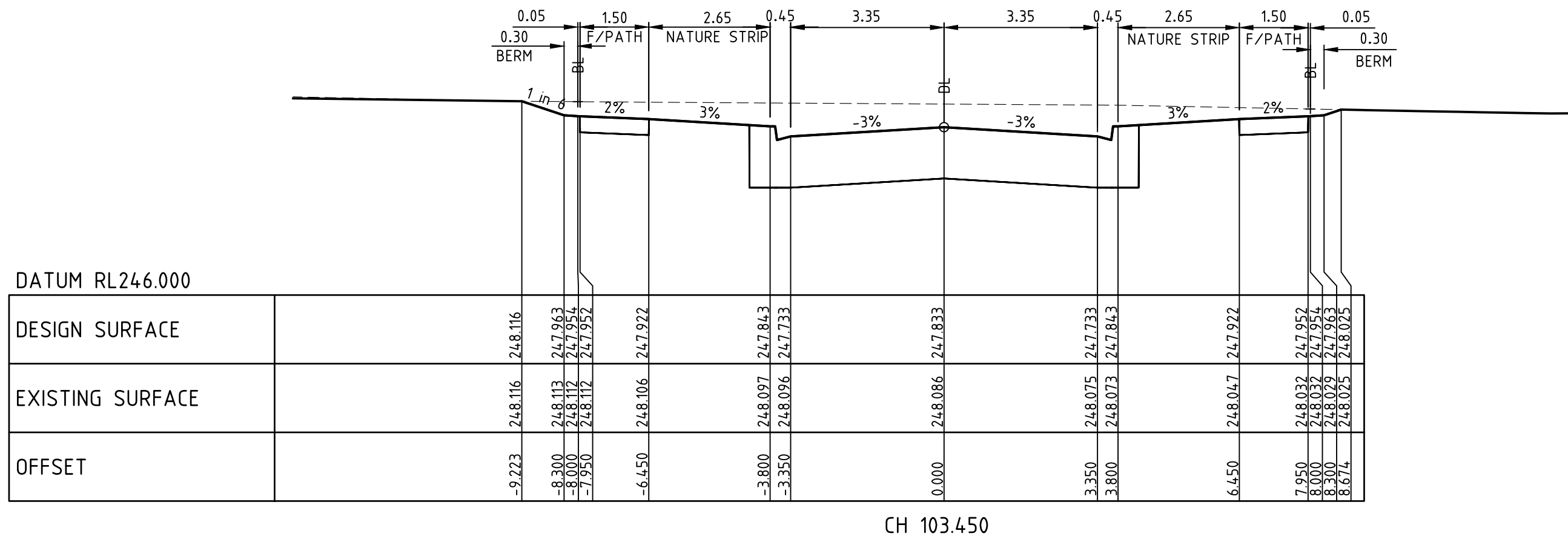


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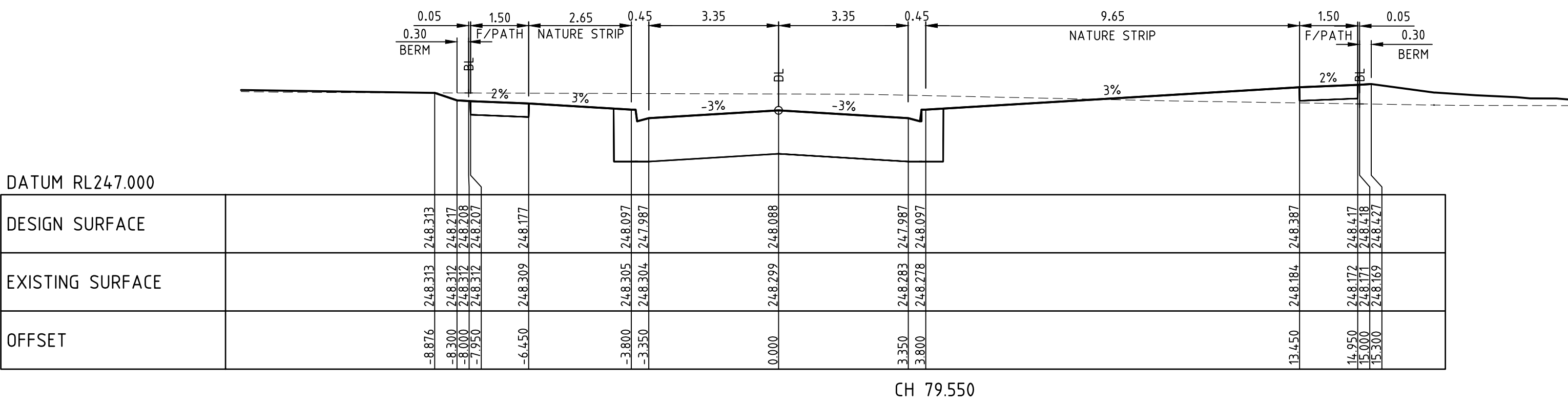
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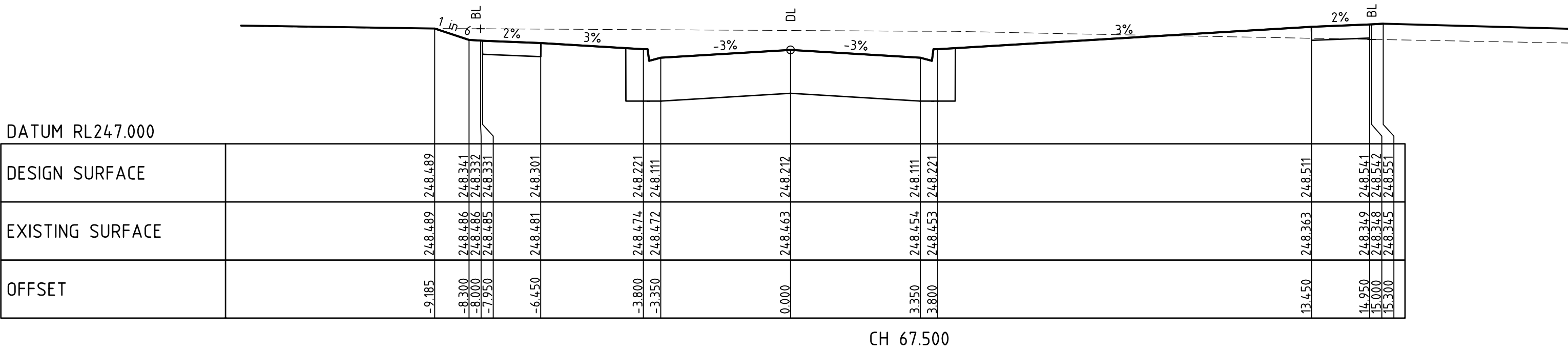
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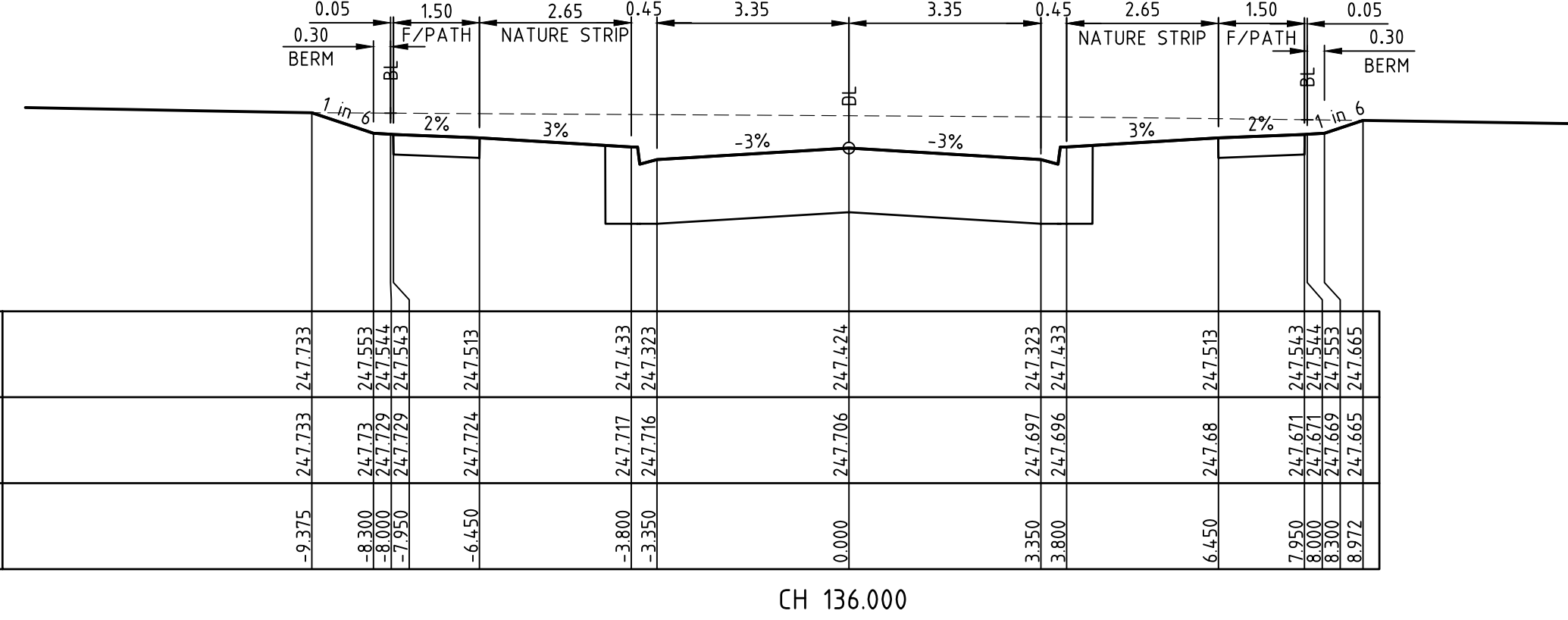
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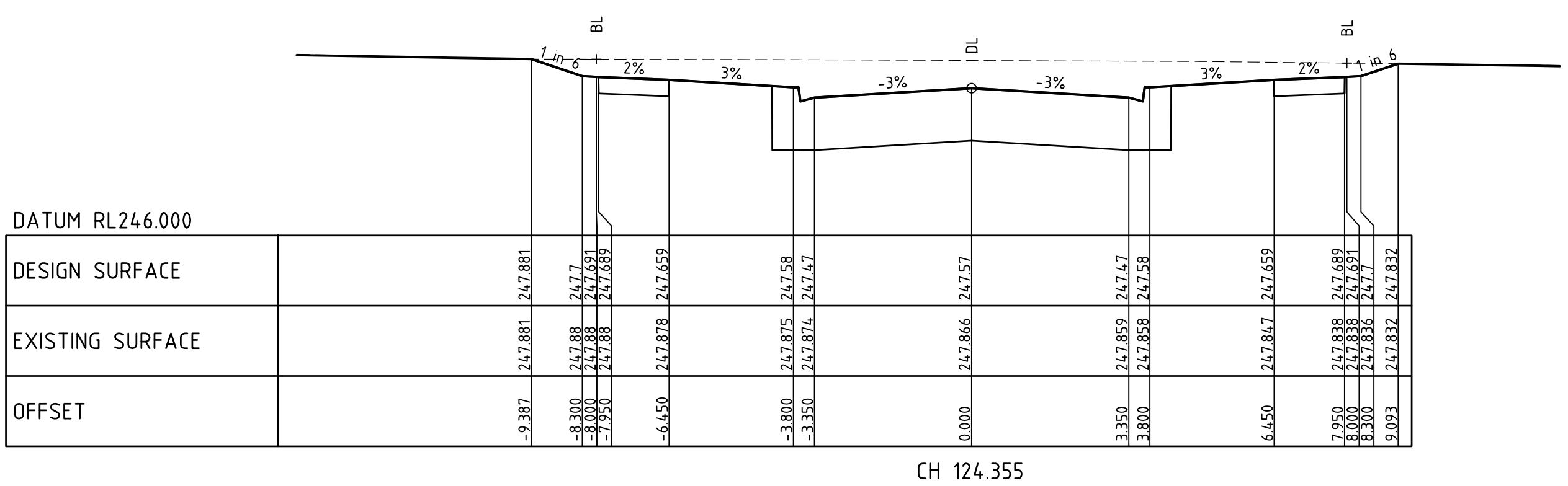
CH 79.550



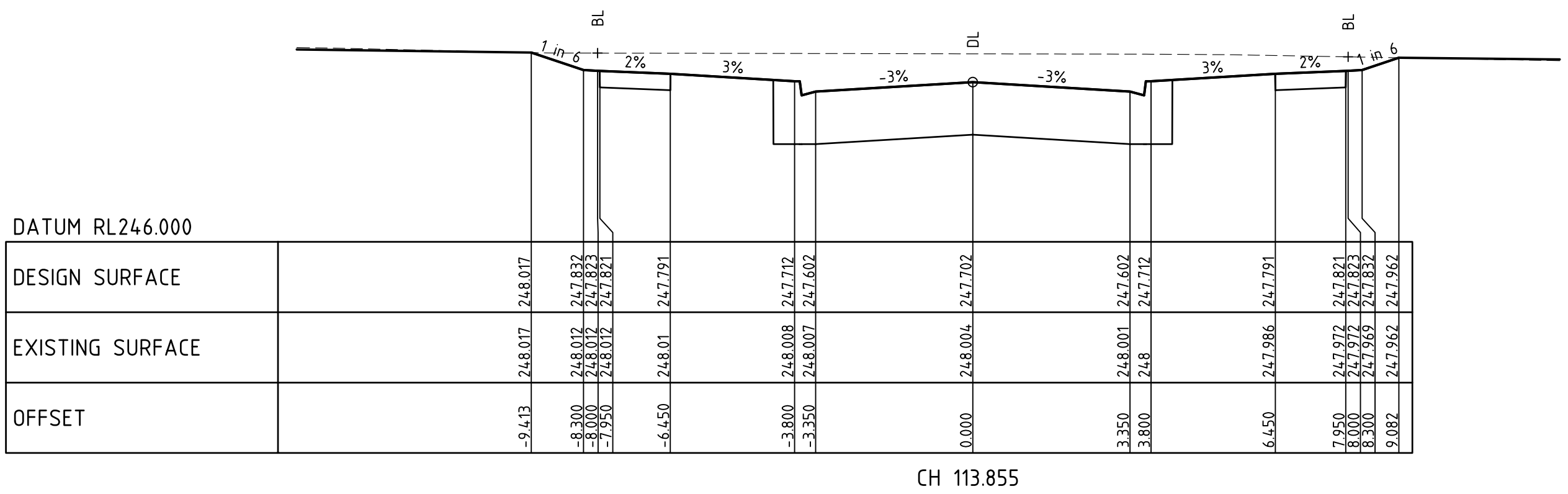
CH 67.500



CH 136.000



CH 124.355



CH 113.855

JACKA STREET

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Date 03/06/15
AN 1061805
Audited B.GORDON
Date 10/11/15
AN 162656
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884776

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.

merrifield
MAB gpc

Coords: MGA
Levels: AHD
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Scale @ A1/A3 1:100/1:200

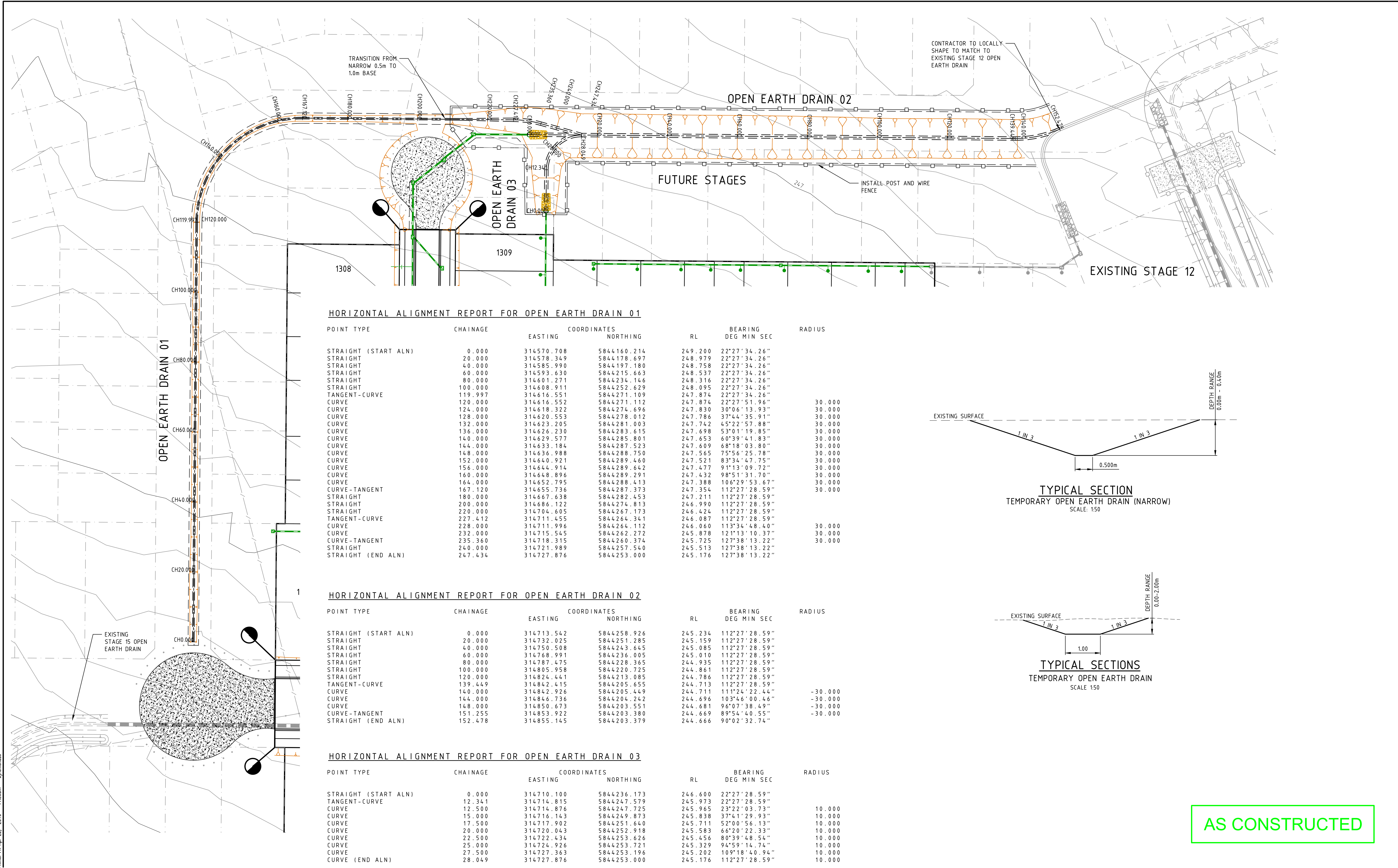
MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
CROSS SECTIONS
SHEET 10 OF 10
Drawing No. 11733XS10 Rev 1
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HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 01

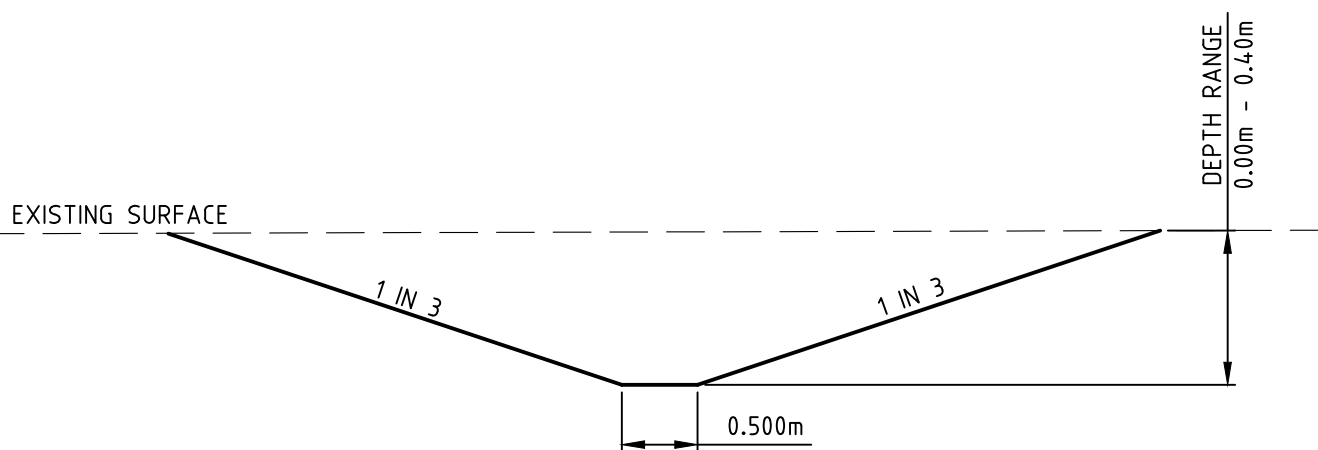
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|----------------------|----------|------------|-------------------------|---------|------------------------|--------|
| STRAIGHT (START ALN) | 0.000 | 314570.708 | 5844160.214 | 249.200 | 22°27'34.26" | |
| STRAIGHT | 20.000 | 314578.349 | 5844178.697 | 248.979 | 22°27'34.26" | |
| STRAIGHT | 40.000 | 314585.990 | 5844197.180 | 248.758 | 22°27'34.26" | |
| STRAIGHT | 60.000 | 314593.630 | 5844215.663 | 248.537 | 22°27'34.26" | |
| STRAIGHT | 80.000 | 314601.271 | 5844234.146 | 248.316 | 22°27'34.26" | |
| STRAIGHT | 100.000 | 314608.911 | 5844252.629 | 248.095 | 22°27'34.26" | |
| TANGENT-CURVE | 119.997 | 314616.551 | 5844271.109 | 247.874 | 22°27'34.26" | |
| CURVE | 120.000 | 314616.552 | 5844271.112 | 247.874 | 22°27'51.96" | 30.000 |
| CURVE | 124.000 | 314618.322 | 5844274.696 | 247.830 | 30°06'13.93" | 30.000 |
| CURVE | 128.000 | 314620.553 | 5844278.012 | 247.786 | 37°44'35.91" | 30.000 |
| CURVE | 132.000 | 314623.205 | 5844281.003 | 247.742 | 45°22'57.88" | 30.000 |
| CURVE | 136.000 | 314626.230 | 5844283.615 | 247.698 | 53°01'19.85" | 30.000 |
| CURVE | 140.000 | 314629.577 | 5844285.801 | 247.653 | 60°39'41.83" | 30.000 |
| CURVE | 144.000 | 314633.184 | 5844287.523 | 247.609 | 68°18'03.80" | 30.000 |
| CURVE | 148.000 | 314636.988 | 5844288.750 | 247.565 | 75°56'25.78" | 30.000 |
| CURVE | 152.000 | 314640.921 | 5844289.460 | 247.521 | 83°34'47.75" | 30.000 |
| CURVE | 156.000 | 314644.914 | 5844289.642 | 247.477 | 91°13'09.72" | 30.000 |
| CURVE | 160.000 | 314648.896 | 5844289.291 | 247.432 | 98°51'31.70" | 30.000 |
| CURVE | 164.000 | 314652.795 | 5844288.413 | 247.388 | 106°29'53.67" | 30.000 |
| CURVE-TANGENT | 167.120 | 314655.736 | 5844287.373 | 247.354 | 112°27'28.59" | 30.000 |
| STRAIGHT | 180.000 | 314667.638 | 5844282.453 | 247.211 | 112°27'28.59" | 30.000 |
| STRAIGHT | 200.000 | 314686.122 | 5844274.813 | 246.990 | 112°27'28.59" | 30.000 |
| STRAIGHT | 220.000 | 314704.605 | 5844267.173 | 246.424 | 112°27'28.59" | 30.000 |
| TANGENT-CURVE | 227.412 | 314711.455 | 5844264.341 | 246.087 | 112°27'28.59" | 30.000 |
| CURVE | 228.000 | 314711.996 | 5844264.112 | 246.060 | 113°34'48.40" | 30.000 |
| CURVE | 232.000 | 314715.545 | 5844262.272 | 245.878 | 121°13'10.37" | 30.000 |
| CURVE-TANGENT | 235.360 | 314718.315 | 5844260.374 | 245.725 | 127°38'13.22" | 30.000 |
| STRAIGHT | 240.000 | 314721.989 | 5844257.540 | 245.513 | 127°38'13.22" | 30.000 |
| STRAIGHT (END ALN) | 247.434 | 314727.876 | 5844253.000 | 245.176 | 127°38'13.22" | 30.000 |

HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 02

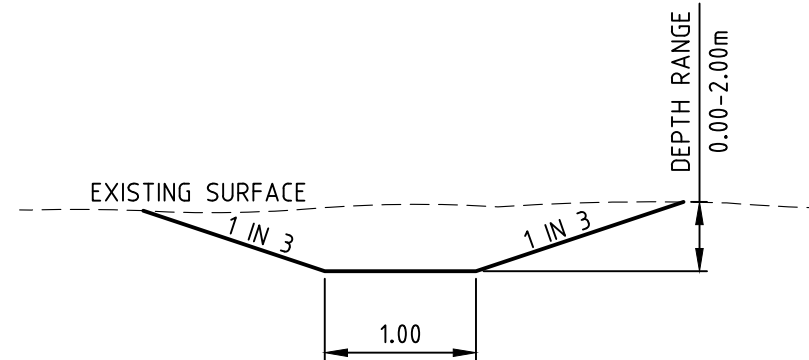
| POINT TYPE | CHAINAGE | EASTING | COORDINATES NORTHING | RL | BEARING DEG MIN SEC | RADIUS |
|----------------------|----------|------------|-------------------------|---------|------------------------|---------|
| STRAIGHT (START ALN) | 0.000 | 314713.542 | 5844258.926 | 245.234 | 112°27'28.59" | |
| STRAIGHT | 20.000 | 314732.025 | 5844251.285 | 245.159 | 112°27'28.59" | |
| STRAIGHT | 40.000 | 314750.508 | 5844243.645 | 245.085 | 112°27'28.59" | |
| STRAIGHT | 60.000 | 314768.991 | 5844236.005 | 245.010 | 112°27'28.59" | |
| STRAIGHT | 80.000 | 314787.475 | 5844228.365 | 244.935 | 112°27'28.59" | |
| STRAIGHT | 100.000 | 314805.958 | 5844220.725 | 244.861 | 112°27'28.59" | |
| STRAIGHT | 120.000 | 314824.441 | 5844213.085 | 244.786 | 112°27'28.59" | |
| TANGENT-CURVE | 139.449 | 314842.415 | 5844205.655 | 244.713 | 112°27'28.59" | |
| CURVE | 140.000 | 314842.926 | 5844205.449 | 244.711 | 111°24'22.44" | -30.000 |
| CURVE | 144.000 | 314846.736 | 5844204.242 | 244.696 | 103°46'00.46" | -30.000 |
| CURVE | 148.000 | 314850.673 | 5844203.551 | 244.681 | 96°07'38.49" | -30.000 |
| CURVE-TANGENT | 151.255 | 314853.922 | 5844203.380 | 244.669 | 89°54'40.55" | -30.000 |
| STRAIGHT (END ALN) | 152.478 | 314855.145 | 5844203.379 | 244.666 | 90°02'32.74" | -30.000 |

HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 03

| POINT TYPE | CHAINAGE | EASTING | COORDINATES NORTHING | RL | BEARING DEG MIN SEC | RADIUS |
|----------------------|----------|------------|-------------------------|---------|------------------------|--------|
| STRAIGHT (START ALN) | 0.000 | 314710.100 | 5844236.173 | 246.600 | 22°27'28.59" | |
| TANGENT-CURVE | 12.361 | 314714.815 | 5844247.525 | 245.973 | 22°27'28.59" | |
| CURVE | 12.500 | 314714.876 | 5844247.725 | 245.965 | 23°22'03.73" | 10.000 |
| CURVE | 15.000 | 314716.143 | 5844249.873 | 245.838 | 37°41'29.93" | 10.000 |
| CURVE | 17.500 | 314717.902 | 5844251.640 | 245.711 | 52°00'56.13" | 10.000 |
| CURVE | 20.000 | 314720.043 | 5844252.918 | 245.583 | 66°20'22.33" | 10.000 |
| CURVE | 22.500 | 314722.434 | 5844253.626 | 245.456 | 80°39'48.54" | 10.000 |
| CURVE | 25.000 | 314724.926 | 5844253.721 | 245.329 | 94°59'14.74" | 10.000 |
| CURVE | 27.500 | 314727.363 | 5844253.196 | 245.202 | 109°18'40.94" | 10.000 |
| CURVE (END ALN) | 28.049 | 314727.876 | 5844253.000 | 245.176 | 112°27'28.59" | 10.000 |



TYPICAL SECTION
TEMPORARY OPEN EARTH DRAIN (NARROW)
SCALE: 1:50



TYPICAL SECTIONS
TEMPORARY OPEN EARTH DRAIN
SCALE: 1:50

AS CONSTRUCTED

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Date 14/05/15
AN 1541220
Verified S.LEA
Date 03/06/15
AN 1081806
Audited B.GORDON
Date 10/11/15
AN 162657
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884777

LEGEND

- Ex W EXISTING WATER MAIN
- Ex G EXISTING GAS MAIN
- Ex E EXISTING ELECTRICAL CABLE
- Ex S-O EXISTING SEWER MAIN & MANHOLE
- Ex T-P EXISTING TELECOMM. CABLE AND PIT
- Ex V-P EXISTING ELEC. POLE & O'HEAD LINES
- Ex S-P EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- EXISTING TREES TO BE REMOVED
- FINISHED SURFACE LEVEL
- OPEN EARTH DRAIN (O.E.D.)
- 300Ø EXISTING 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
- RECYCLED WATER
- TELECOMMUNICATIONS
- E ELECTRICITY
- G GAS
- STREET NAME SIGN
- REGRADE LOT AT MIN 1 IN 150
- ASPHALT PAVEMENT
- CONC FOOTPATH / DRIVEWAY
- LIMIT OF WORKS
- FILLING OVER 300mm
- FINISHED SURFACE CONTOUR

merrifield

MAB gpc

Coords: MGA
Levels: AHD

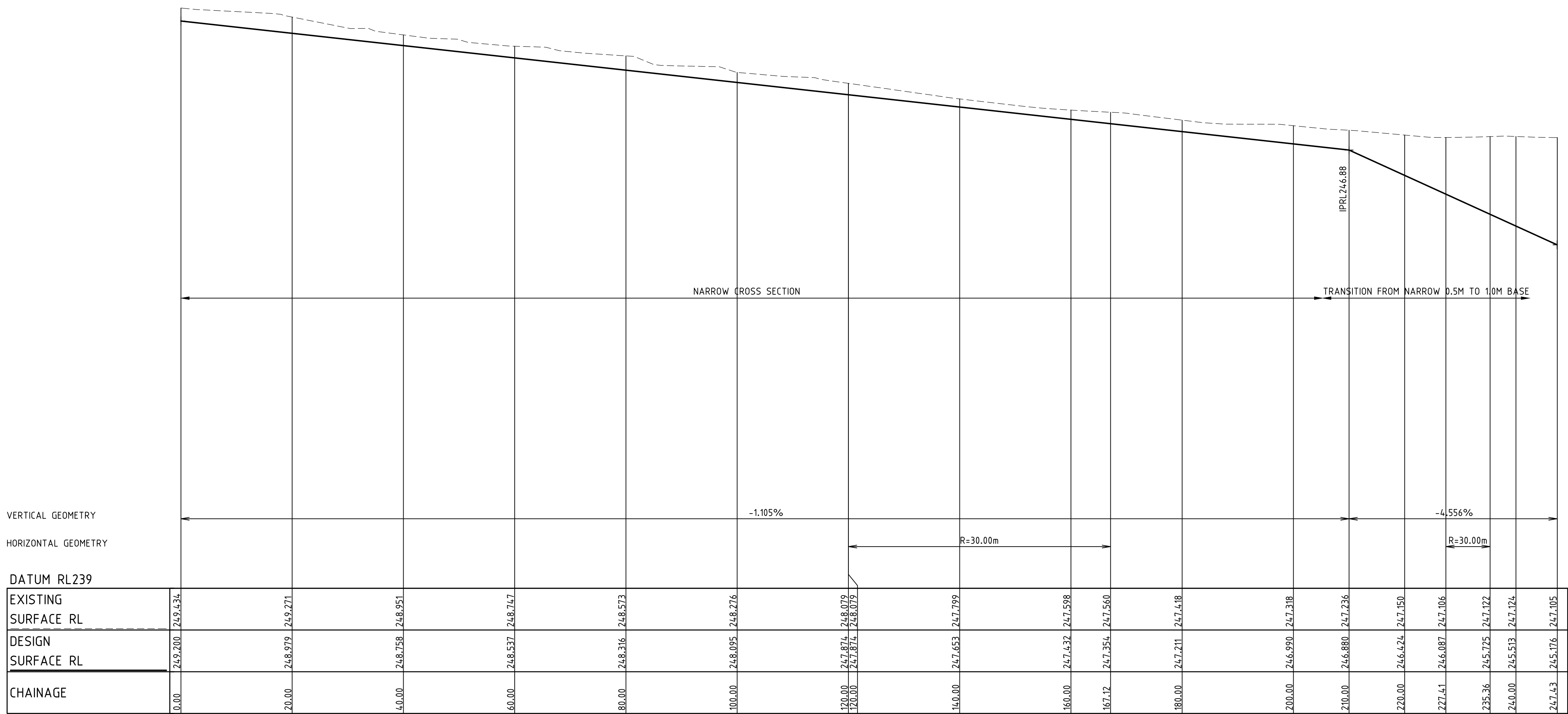
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MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
OPEN EARTH DRAIN PLAN
SHEET 01 OF 02
Drawing No. 117330ED01 Rev 1
AS CONSTRUCTED

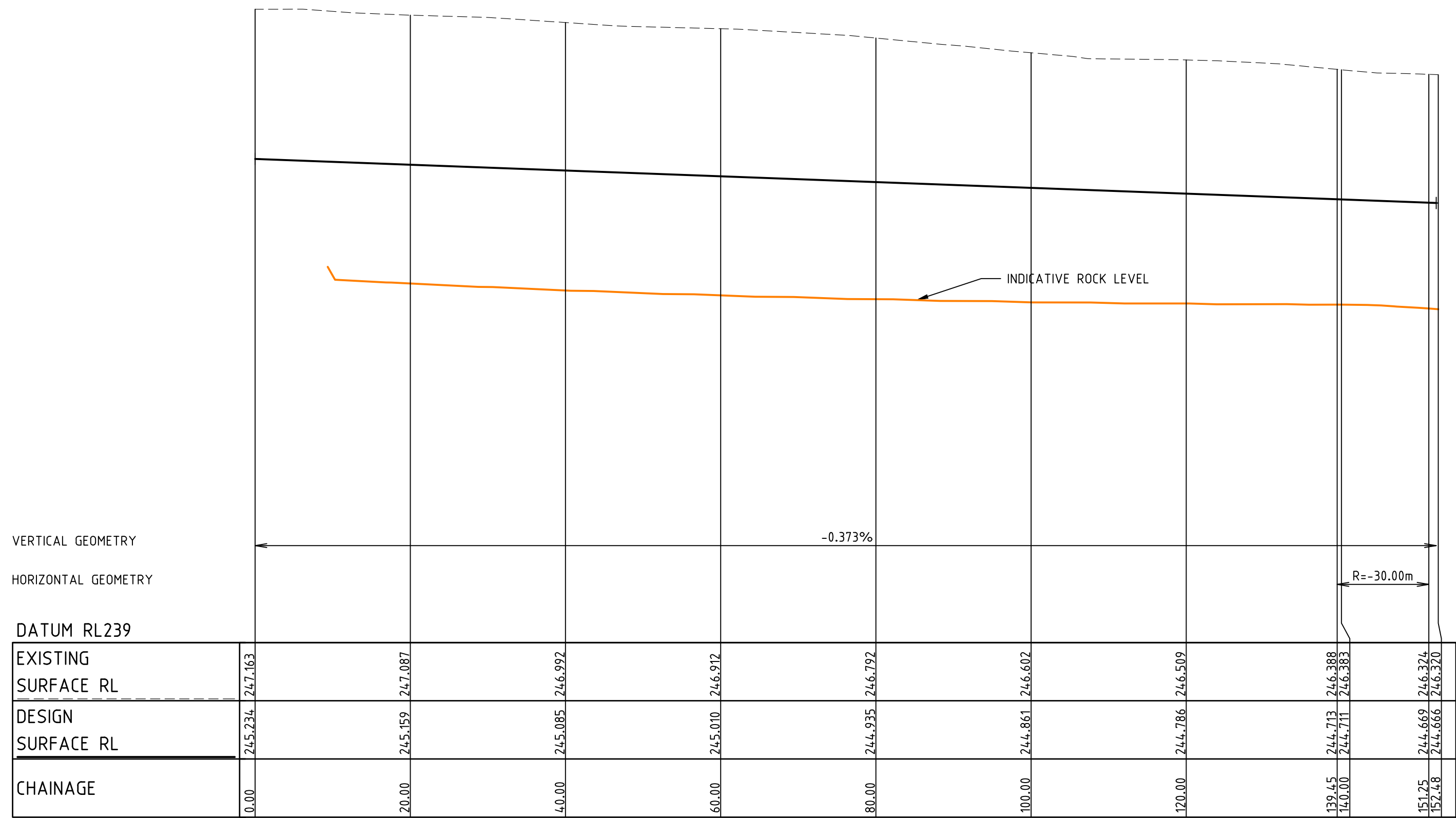
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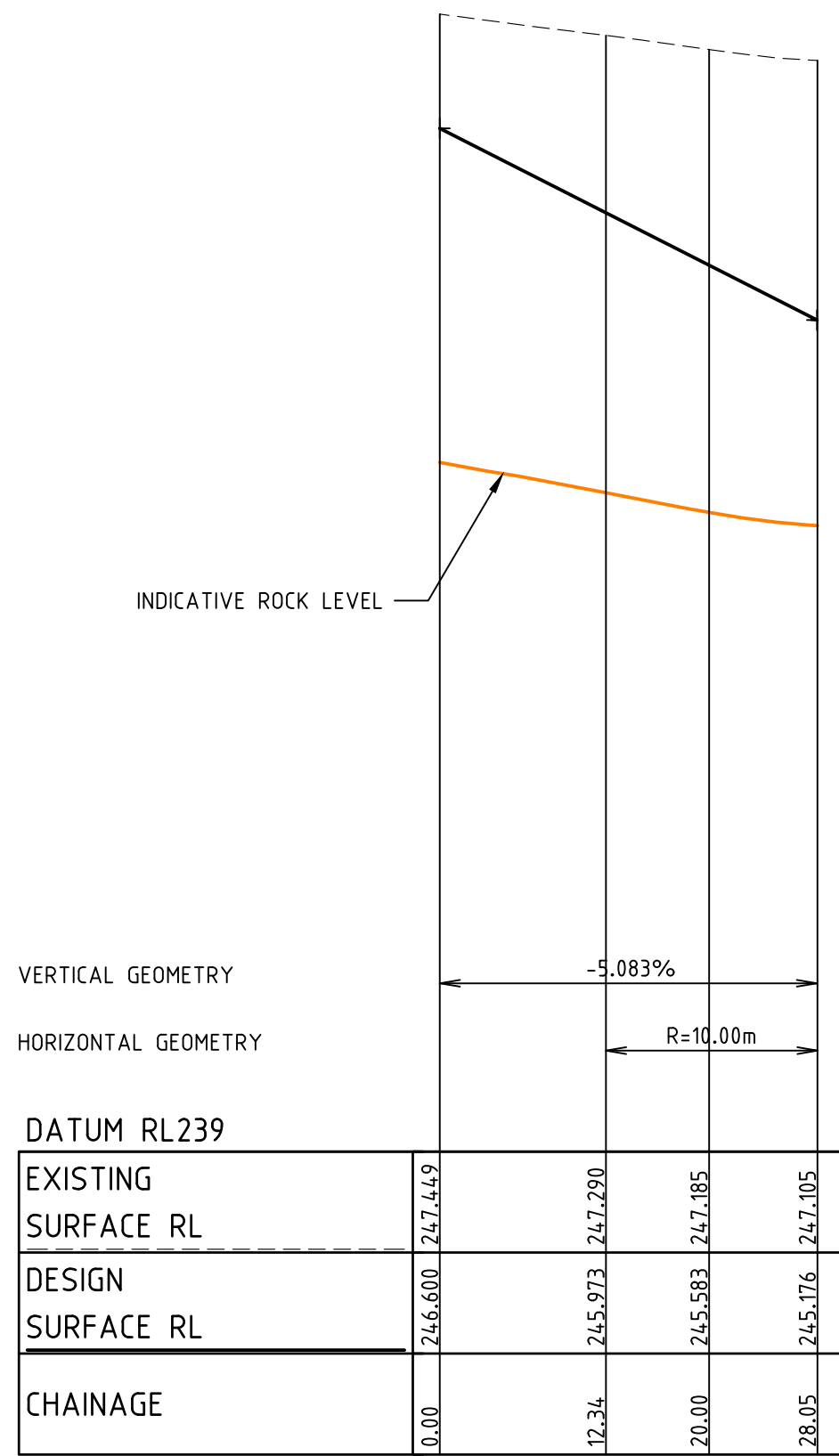
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LONGITUDINAL SECTION OED 01 DESIGN LINE



LONGITUDINAL SECTION OED 02 DESIGN LINE



LONGITUDINAL SECTION OED 03 DESIGN LINE

AS CONSTRUCTED

| | | | |
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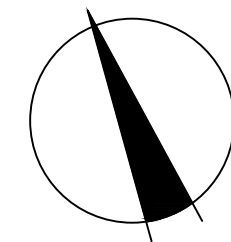
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AN 1541372
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Date 03/06/15
AN 1081958
Audited B.GORDON
Date 10/11/15
AN 162658
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884778

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
Ex P EXISTING STORMWATER DRAIN & PIT
CONSTRUCTED PRE DEVELOPMENT
EXISTING TREES TO BE REMOVED
FINISHED SURFACE LEVEL
OPEN EARTH DRAIN (O.E.D.)

ES20.04
FS21.650

LEGEND
300Ø EXISTING 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
REGRADE LOT AT MIN 1 IN 150
ASPHALT PAVEMENT
CONC FOOTPATH / DRIVEWAY
LIMIT OF WORKS
FILLING OVER 300mm
FINISHED SURFACE CONTOUR



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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
OPEN EARTH DRAIN PLAN
SHEET 02 OF 02
Drawing No. 11733OED02 Rev 1
Sheet No. 27 AS CONSTRUCTED
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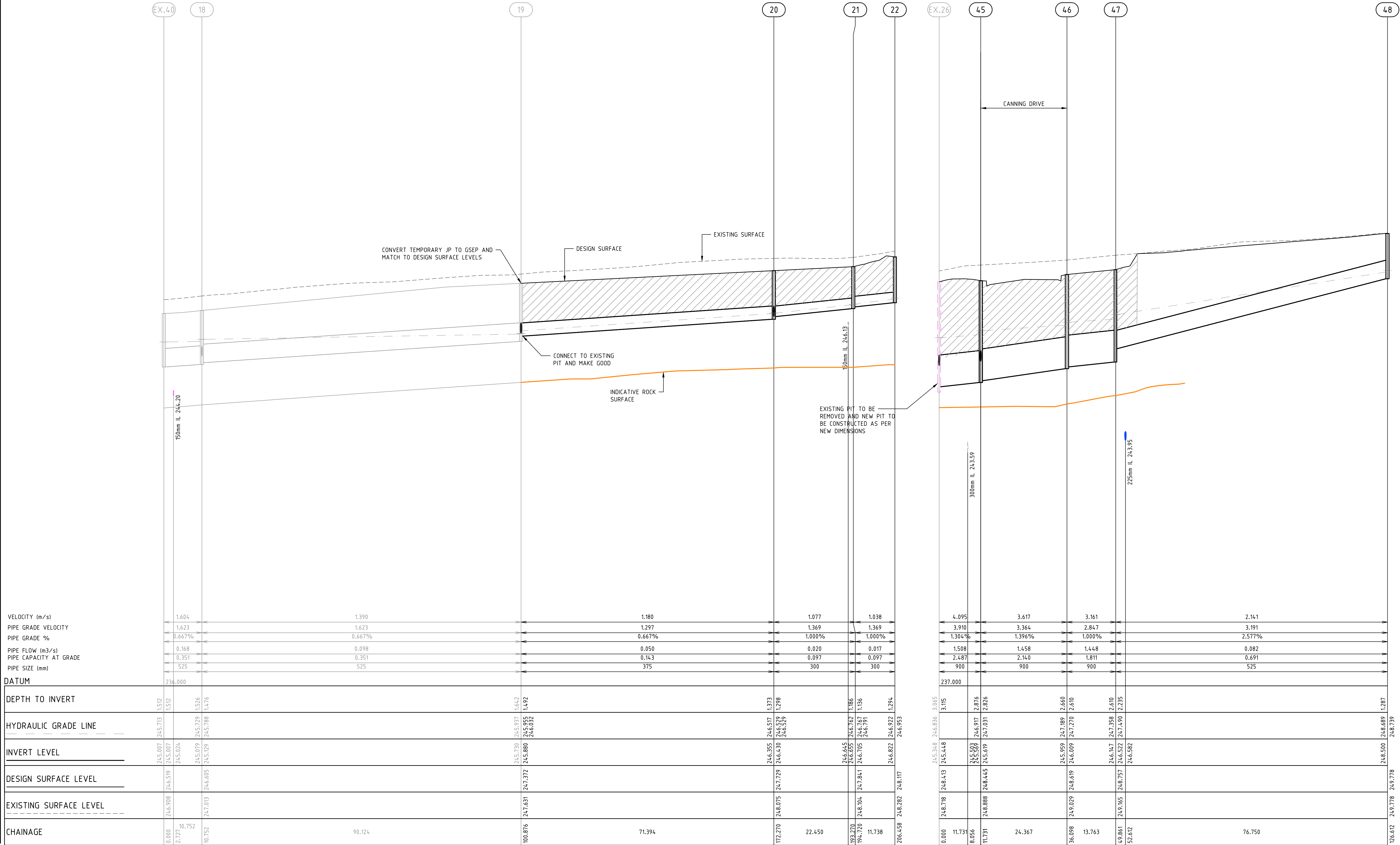
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Audited B.GORDON
Date 10/11/15
AN 162659
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884779

LEGEND

DENOTES CLASS 2 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

MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 13
DRAINAGE LONGITUDINAL SECTIONS
SHEET 01 OF 03
Drawing No. 11733DR01 Rev 1
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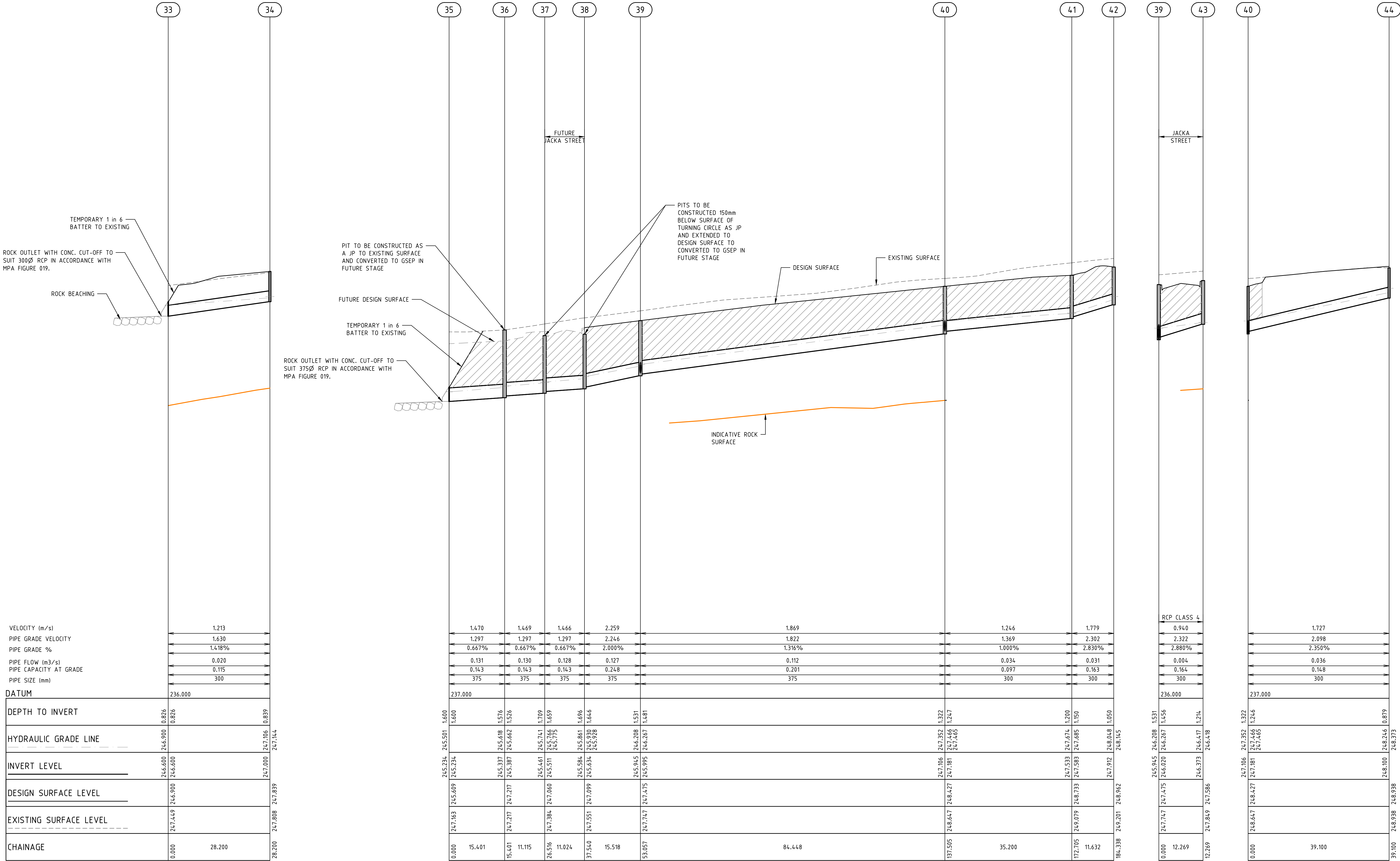
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AN 162661
Approved T.LIAKOPOULOS
Date 12/11/15
AN 884781

LEGEND
DENOTES CLASS 2 CRUSHED ROCK BACKFILL

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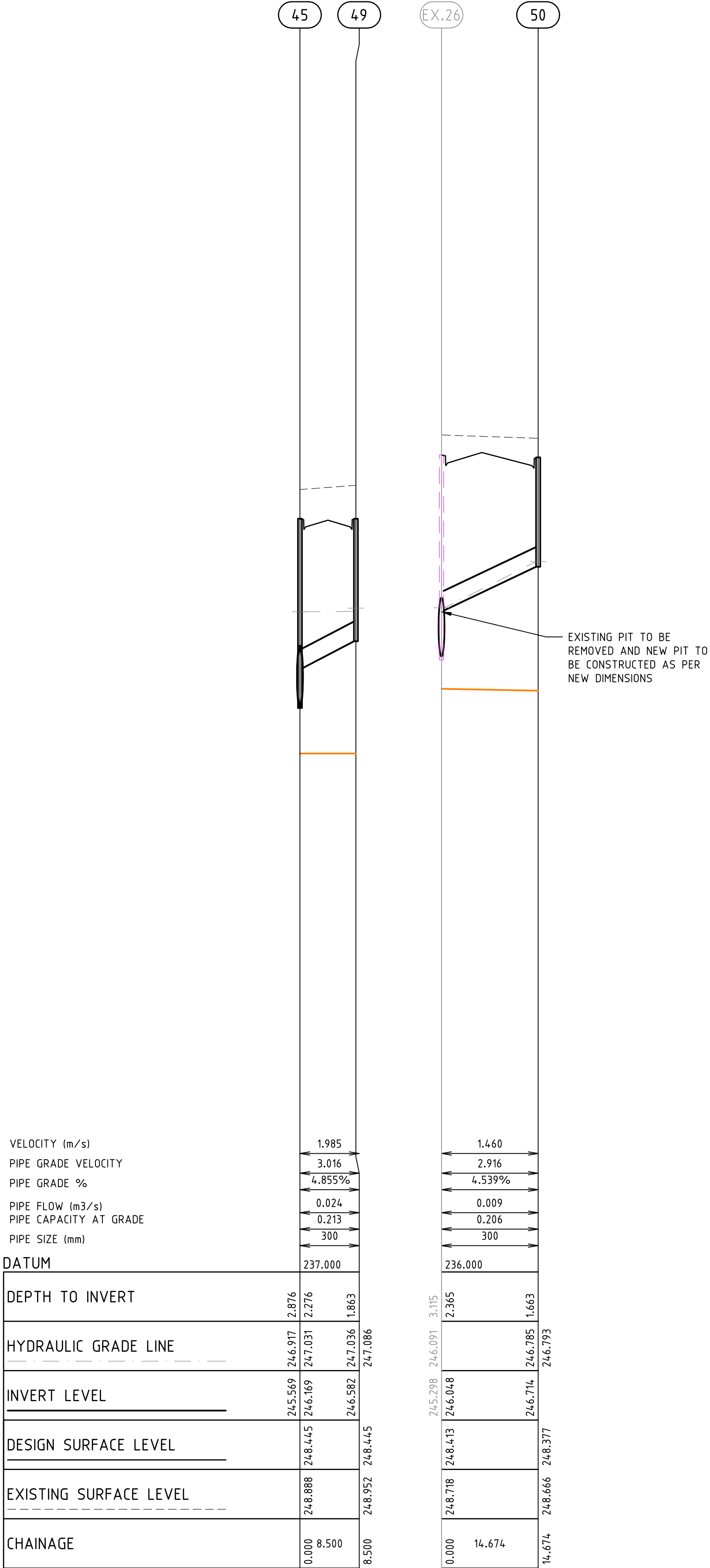
merrifield
MAB gpc

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
DRAINAGE LONGITUDINAL SECTIONS
SHEET 03 OF 03
Drawing No. 11733DR03 Rev 1
Sheet No. 30 AS CONSTRUCTED
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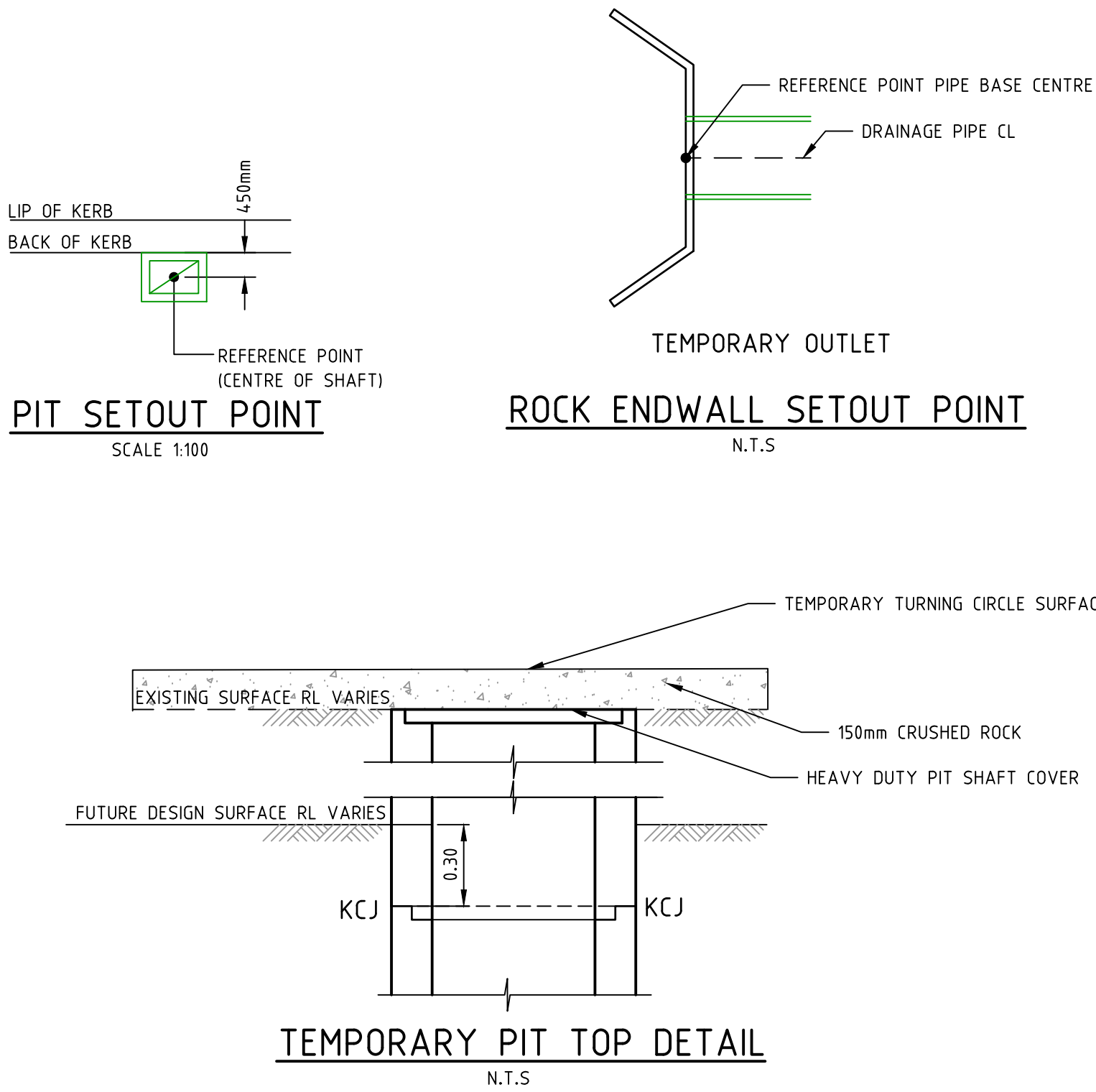
| | | |
|------------------------|---------------------------------|---------------------------------|
| VELOCITY (m/s) | 1.985 | 1.460 |
| PIPE GRADE VELOCITY | 3.016 | 2.916 |
| PIPE GRADE % | 4.855% | 4.539% |
| PIPE FLOW (m3/s) | 0.024 | 0.009 |
| PIPE CAPACITY AT GRADE | 0.213 | 0.206 |
| PIPE SIZE (mm) | 300 | 300 |
| DATUM | 237.000 | 236.000 |
| DEPTH TO INVERT | 2.876 2.276 | 1.663 |
| HYDRAULIC GRADE LINE | 245.569 246.917 247.031 247.086 | 246.048 246.785 246.793 |
| INVERT LEVEL | 245.569 246.169 246.582 247.036 | 246.048 246.714 246.377 246.793 |
| DESIGN SURFACE LEVEL | 248.445 248.445 248.445 248.445 | 248.413 248.413 248.377 248.377 |
| EXISTING SURFACE LEVEL | 248.888 248.888 248.888 248.888 | 248.718 248.666 248.666 248.666 |
| CHAINAGE | 0.000 8.500 | 0.000 14.674 |

| PIT NAME | TYPE | EASTING | NORTHING | INTERNAL | | INLET | | OUTLET | | PIT | | REMARKS |
|----------|------|------------|-------------|---------------|---------------|--------------------|-------------------------------|--------|---------|-----------|-------|---|
| | | | | WD | LEN | DIA | INV LEV | DIA | INV LEV | SETOUT RL | DEPTH | |
| Ex.19 | GSEP | 314756.672 | 5844158.814 | 600 | 900 | 375 300 | 245.88 245.955 | 525 | 245.73 | 247.372 | 1.642 | EXISTING JP TO BE CONVERTED TO GSEP REFER TO MPA STD DRG FIG.012 |
| 20 | GSEP | 314690.694 | 5844186.088 | 600 | 900 | 300 300 | 246.43 246.43 | 375 | 246.355 | 247.729 | 1.373 | REFER TO MPA STD DRG FIG.012 |
| 21 | GSEP | 314669.947 | 5844194.665 | 600 | 900 | 300 | 246.705 | 300 | 246.655 | 247.841 | 1.186 | REFER TO MPA STD DRG FIG.012 |
| 22 | GSEP | 314659.106 | 5844190.165 | 600 | 900 | 300 | 246.822 | 300 | 246.822 | 248.117 | 1.294 | REFER TO MPA STD DRG FIG.012 |
| Ex.24 | GSEP | 314750.822 | 5844170.427 | 600 | 900 | | | 300 | 246.202 | 247.421 | 1.219 | EXISTING JP TO BE CONVERTED TO GSEP REFER TO MPA STD DRG FIG.012 |
| 51 | JP | 314667.868 | 5844130.87 | 600 | 900 | | | 300 | 248.674 | 248.674 | 0.874 | REFER TO MPA STD DRG FIG.014 |
| Ex.43 | JP | 314721.479 | 5844132.297 | 600 | 900 | 300 | 246.95 | | 248.129 | 248.129 | 1.179 | CONNECT TO EXISTING PIT |
| 26 | JP | 314690.982 | 5844144.904 | 600 | 900 | | | 300 | 247.45 | 248.319 | 0.869 | REFER TO MPA STD DRG FIG.014 |
| Ex.30 | JP | 314806.421 | 5844180.72 | 600 | 900 | 300 | 245.822 | 300 | 245.772 | 246.957 | 1.185 | CONNECT TO EXISTING PIT |
| 31 | JP | 314766.683 | 5844197.147 | 600 | 900 | 225 | 246.112 | 300 | 246.037 | 247.248 | 1.211 | REFER TO MPA STD DRG FIG.014 |
| 32 | JP | 314717.241 | 5844217.586 | 600 | 900 | | | 225 | 246.9 | 247.62 | 0.72 | REFER TO MPA STD DRG FIG.014 |
| 33 | EW | 314710.1 | 5844236.173 | | | 300 | 246.6 | | | 247.426 | 0.826 | OUTFALL STRUCTURE. REF MPA STD DRW FIG. 019 |
| 34 | JP | 314699.327 | 5844210.112 | 600 | 900 | | | 300 | 247.839 | 247.839 | 0.839 | REFER TO MPA STD DRG FIG.014 |
| 35 | EW | 314713.542 | 5844258.926 | | | 375 | 245.234 | | | 245.859 | 0.625 | OUTFALL STRUCTURE. REF MPA STD DRW FIG. 019 |
| 36 | GSEP | 314699.293 | 5844264.771 | 600 | 900 | 375 | 245.387 | 375 | 245.337 | 246.913 | 1.576 | REFER TO MPA STD DRG FIG.012 |
| 37 | JP | 314688.794 | 5844261.125 | 600 | 900 | 375 | 245.511 | 375 | 245.461 | 247.17 | 1.709 | TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012 |
| 38 | JP | 314678.113 | 5844258.395 | 600 | 900 | 375 | 245.634 | 375 | 245.584 | 247.28 | 1.696 | TEMP. JP CONVERTED TO GSEP IN FUTURE. REFER TO MPA STD DRG FIG.012 |
| 39 | GSEP | 314672.185 | 5844244.054 | 600 | 900 | 375 300 | 245.995 246.02 | 375 | 245.945 | 247.475 | 1.531 | REFER TO MPA STD DRG FIG.012 |
| 40 | GSEP | 314639.785 | 5844166.069 | 600 | 900 | 300 300 | 247.181 247.181 | 375 | 247.106 | 248.427 | 1.322 | REFER TO MPA STD DRG FIG.012 |
| 41 | GSEP | 314626.337 | 5844133.539 | 600 | 900 | 300 | 247.583 | 300 | 247.533 | 248.733 | 1.2 | REFER TO MPA STD DRG FIG.012 |
| 42 | GSEP | 314615.634 | 5844128.982 | 600 | 900 | | | 300 | 247.912 | 248.962 | 1.05 | REFER TO MPA STD DRG FIG.012 |
| 43 | GSEP | 314676.66 | 5844232.63 | 600 | 900 | | | 300 | 246.373 | 247.586 | 1.214 | REFER TO MPA STD DRG FIG.012 |
| 44 | JP | 314603.65 | 5844181.006 | 600 | 900 | | | 300 | 248.1 | 248.938 | 0.838 | REFER TO MPA STD DRG FIG.014 |
| Ex.26 | GSEP | 314684.642 | 5844087.903 | T600 B1200 | T900 B1300 | 1050 900 300 | 245.348 245.448 246.048 | 1050 | 245.298 | 248.413 | 3.065 | EXISTING PIT TO BE REMOVED AND NEW HAUNCHED GSEP TO BE CONSTRUCTED. REFER TO MPA STD DRG FIG.012 & HUME CITY COUNCIL SD 245 |
| 45 | GSEP | 314673.81 | 5844083.399 | T600 B1200 | T900 B900 | 900 300 | 245.619 246.169 | 900 | 245.569 | 248.445 | 2.876 | HAUNCHED GSEP. REFER TO MPA STD DRG FIG.012 & HUME CITY COUNCIL SD 245 |
| 46 | GSEP | 314657.231 | 5844065.542 | T600 B1200 | T900 B900 | 900 | 246.009 | 900 | 245.959 | 248.619 | 2.66 | HAUNCHED GSEP. REFER TO MPA STD DRG FIG.012 & HUME CITY COUNCIL SD 245 |
| 47 | GSEP | 314651.973 | 5844052.823 | 600 B1200 | 900 B900 | 525 | 246.522 | 900 | 246.147 | 248.757 | 2.61 | HAUNCHED GSEP. REFER TO MPA STD DRG FIG.012 & HUME CITY COUNCIL SD 245 |
| 48 | JP | 314581.044 | 5844082.144 | 600 | 900 | | | 525 | 248.5 | 249.778 | 1.278 | REFER TO MPA STD DRG FIG.012 |
| 49 | GSEP | 314665.955 | 5844086.646 | 600 | 900 | | | 300 | 246.582 | 248.445 | 1.863 | REFER TO MPA STD DRG FIG.012 |
| 50 | GSEP | 314685.606 | 5844102.545 | 600 | 900 | | | 300 | 246.714 | 248.377 | 1.663 | REFER TO MPA STD DRG FIG.012 |

KEY:
GSEP = GRATED SIDE ENTRY PIT
JP = JUNCTION PIT
EW = ENDWALL
EX = EXISTING PIT
PP = PIPE TO PIPE CONNECTION
(T) = TOP INTERNAL PIT DIMENSION
(B) = BOTTOM INTERNAL PIT DIMENSION

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 MPA 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 HCC SD245.



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AN 1061810
Audited B.GORDON
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Approved T.LIAKOPOULOS
Date 12/11/15
AN 884782

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MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
DRAINAGE PIT SCHEDULE



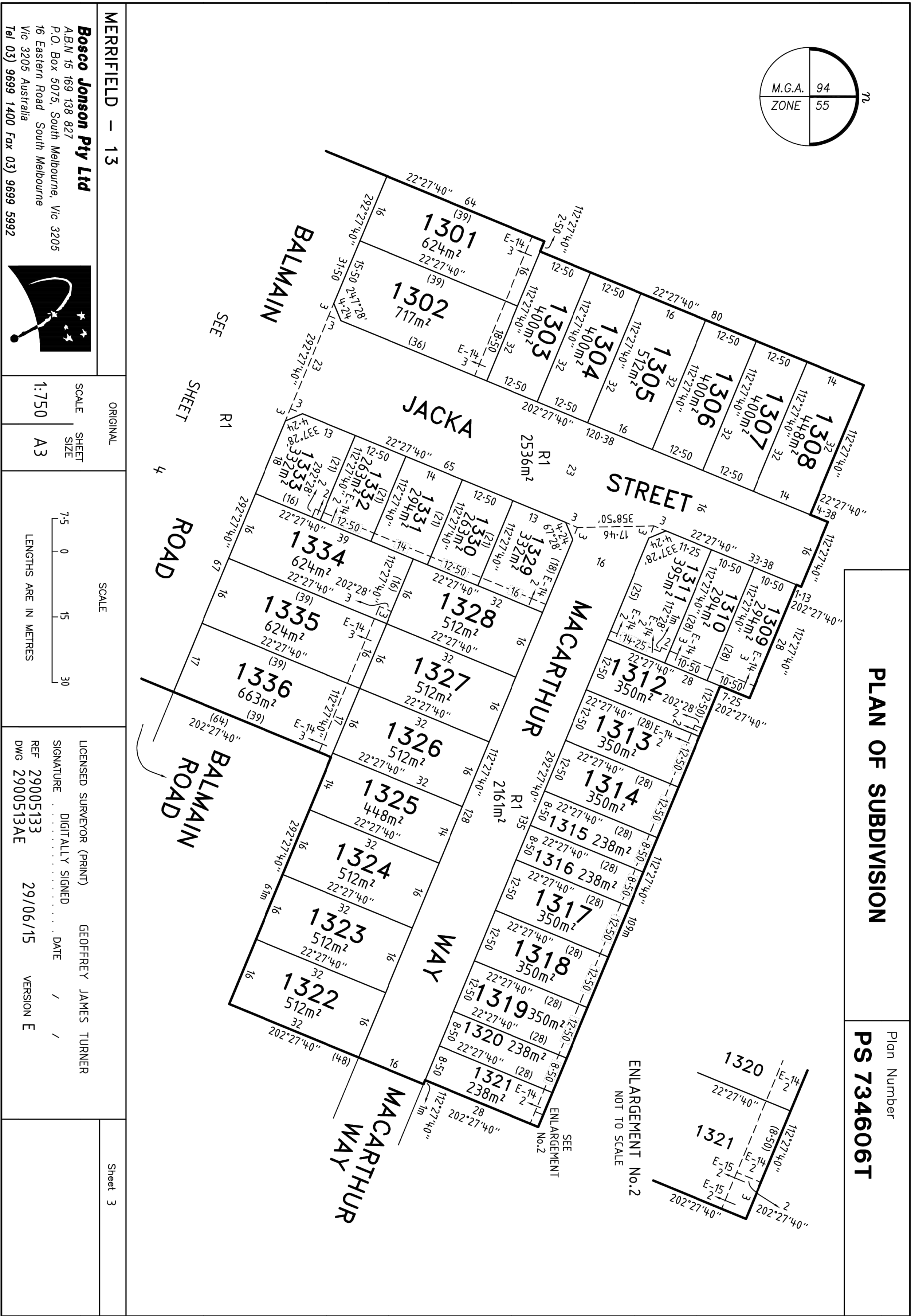
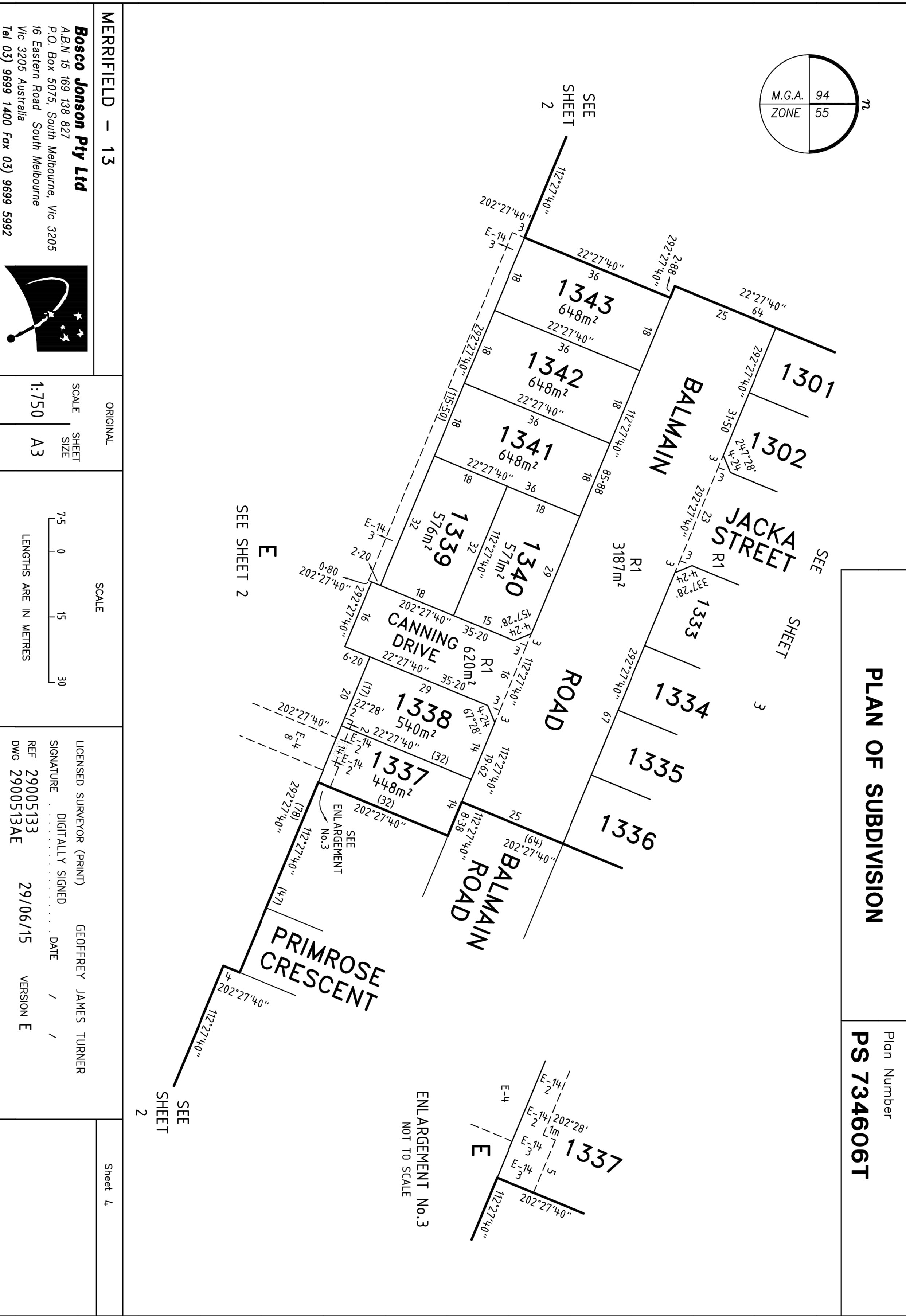
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Written dimensions to take precedence over scale. Contractor shall check and verify all dimensions on site. Discrepancies to be brought to the attention of the Superintendent.



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merrifield

MAB **GPC**

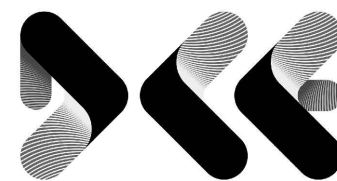
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MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 13
PLAN OF SUBDIVISION

Drawing No. 11733POS01 Rev 1
Sheet No. 32 AS CONSTRUCTED

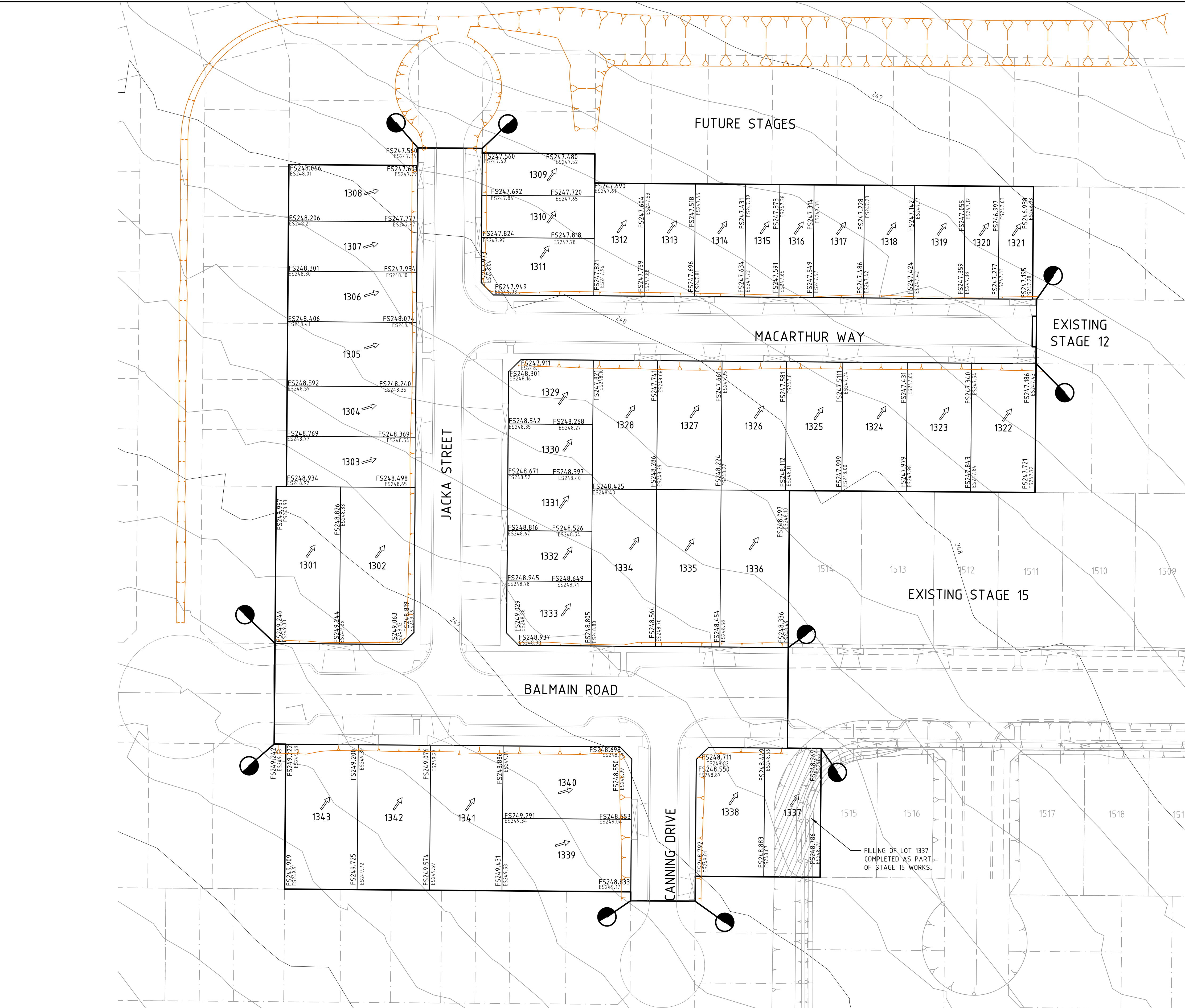
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FILL PLAN NOTES

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.

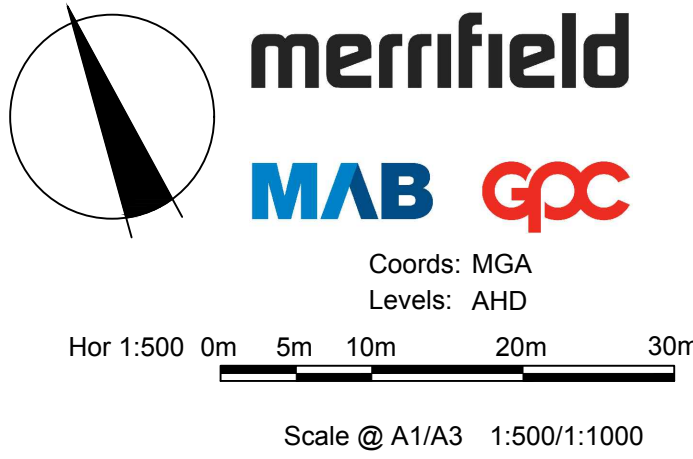
THE AREA MARKED THUS  ON THIS PLAN INDICATES EXISTING FILL.

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Date 12/11/15
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LEGEND
 LIMIT OF WORKS
ES EXISTING SURFACE LEVEL
FS FINISHED SURFACE LEVEL

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MERRIFIELD DEVELOPMENT
DANNYBROOK ROAD, MICKLEHAM
STAGE 13
FILL PLAN

Drawing No. 11733FP01 Rev 1
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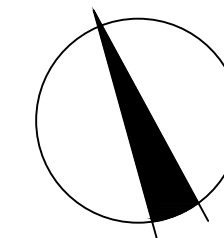
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LEGEND

- 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
- EXISTING ELEC. POLE & O'HEAD LINES
- EXISTING STORMWATER DRAIN & PIT
- EXISTING TREES
- PREVIOUS STAGE SW DRAIN & PIT

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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 13
EXISTING FEATURES PLAN

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