MERRIFIELD DEVELOPMENT

STAGE 11

DONNYBROOK ROAD, MICKLEHAM

HUME CITY COUNCIL

FOR

merrifield

MAB GPC

CIVIL DRAWINGS

ROAD AND DRAINAGE

AS CONSTRUCTED

DCE REF : 11731

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\RD\
11731RDFS.dwg - 11731RDFS
Date/Time: Fri, May 20, 2016 - 9:21am --Robert.Young--

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HUME CITY COUNCIL GENERAL NOTES:

1. 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.

2. 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 PRECOMMENCEMNT MEETING.

3. 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.

4. 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.

5. 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.

6. 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.

7. 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

8. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

9. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).

10. ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).

11. 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.

12. 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.

13. FILLING TO COMPLY WITH AS3798-2007 LEVEL 1 (OR 2) AS SPECIFIED.

14. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION N0 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.

15. 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.

16. 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.

17. 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.

18. THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURE/FENCES AND FOR ANY RETAINING WALLS OVER 1.0M IN HEIGHT.

19. 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.

20. 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.

21. FOOTPATHS TO BE OFFSET 50mm FROM THE TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.

22. ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450MM LONG Y20 DOWEL BARS @ 600 CENTERS, UNLESS OTHERWISE SPECIFIED.

23. ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.

24. 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.

25. 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.

26. WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.

27. ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.

28. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.

29. 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.

30. 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.

31. 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.

32. 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.

33. 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.

34. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.

35. 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.

36. 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.

37. 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.

38. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND COMPLY WITH THE REQUIREMENTS OF AS1743-2001.

39. 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.

40. 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.

41. 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:

1. ALL BLOCKS ARE TO SURFACE GRADE WITH A MINIMUM FALL OF 1 IN 150 ALONG THE LOW SIDE BOUNDARY TO THE POINT OF DISCHARGE.

2. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.

3. 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.

4. 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.

5. LIP OF ALL KERB RADII ARE 8.60m UNLESS OTHERWISE SHOWN.

6. 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.

7. 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.

8. 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.

9. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.

10. 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.

11. 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.

12. PROVIDE LAYBACKS IN KERB TO ALL PRAM CROSSINGS IN ACCORDANCE WITH COUNCIL STANDARDS.

13. ASPHALT FILLETS/RAMPS ARE TO BE PROVIDED ON THE BASE COURSE ASPHALT TO REMOVE TRIPS AT ALL PEDESTRIAN CROSSING LOCATIONS.

14. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.

15. ALL EASEMENTS ARE 2.0M OR 3.0M WIDE DRAINAGE AND/OR SEWERAGE EASEMENTS UNLESS OTHERWISE SHOWN

16. CENTRELINES OF ALL SEWERS ARE OFFSET 1.2m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.

17. CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.

18. 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.

19. ALL SIDE ENTRY PITS EXCEPT THOSE AT LOW POINTS ARE TO HAVE FLUTES AS SPECIFIED IN THE COUNCIL STANDARD DRAWINGS.

20. 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.

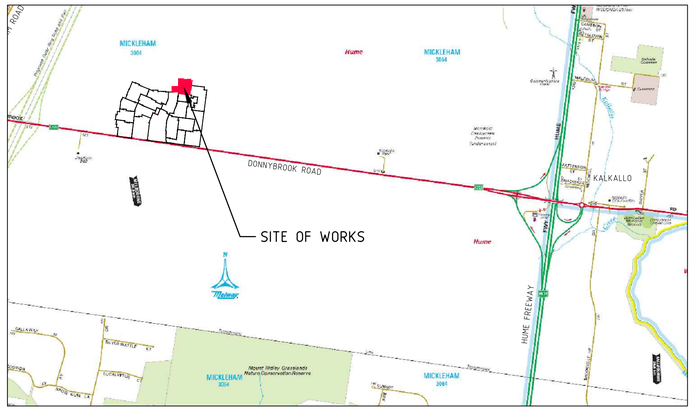
21. POSITION CONDUITS SO THAT A MINIMUM DISTANCE BETWEEN TAPPINGS IS 1.0m. CONDUITS NOT TO BE LOCATED WITHIN 4.0m OF ALLOTMENT BOUNDARY, UNLESS OTHERWISE SHOWN.

22. 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.

23. 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

24. ELECTRICITY CONDUITS ARE TO BE LAID WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS :
   UNDER ROADS - 0.90m
   ELSEWHERE - 0.60m

25. 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	11731TD01	LOCALITY PLAN, INDEX AND NOTES
02	11731TD02	TYPICAL SECTIONS AND DETAILS
03	11731SP01	STAGING PLAN
04	11731DP01	DETAIL PLAN
05-06	11731SOP01-02	SETOUT DETAILS - SHEETS 01 TO 02
07-12	11731ID01-06	INTERSECTION DETAILS - SHEETS 01 TO 06
13	11731LM01	SIGNAGE AND LINEMARKING PLAN
14-18	11731LS01-05	LONGITUDINAL SECTIONS - SHEETS 01 TO 05
19-28	11731XS01-10	CROSS SECTIONS - SHEETS 01 TO 10
29-32	117310ED01-04	OPEN EARTH DRAIN PLAN - SHEETS 01 TO 04
33-35	11731DR01-03	DRAINAGE LONGITUDINAL SECTIONS - SHEETS 01 TO 03
36	11731DR04	DRAINAGE PIT SCHEDULE
37	11731POS01	PLAN OF SUBDIVISION
38	11731FP01	FILL PLAN
39	11731EF01	EXISTING FEATURES

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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541109
Verified B.GORDON
Date 17/03/15
AN 162121
Audited S.LEA
Date 27/11/15
AN 1062196
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884906

AS CONSTRUCTED

merrifield
MAB gpc
Coords: MGA
Levels: AHD

Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
LOCALITY PLAN, INDEX AND NOTES

Drawing No. 11731TD01 Rev 1
Sheet No. 01 AS CONSTRUCTED

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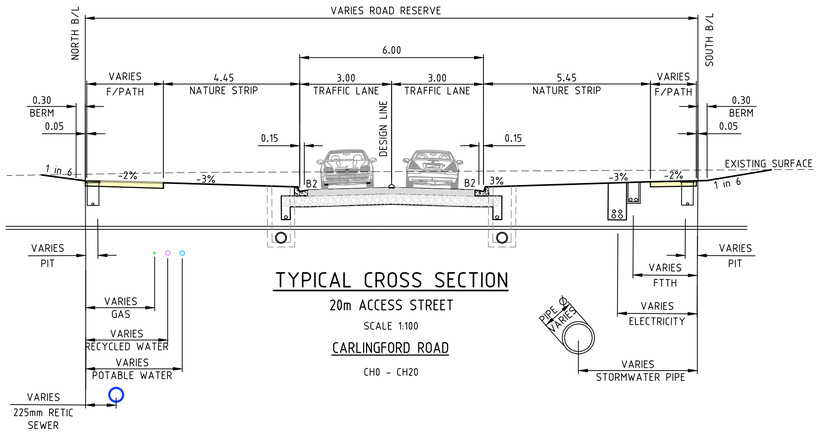


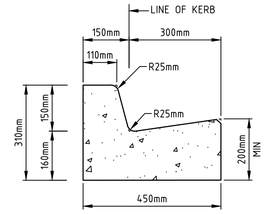
TYPICAL CROSS SECTION

20m ACCESS STREET

SCALE 1:100

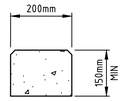
CARLINGFORD ROAD

CH0 - CH20



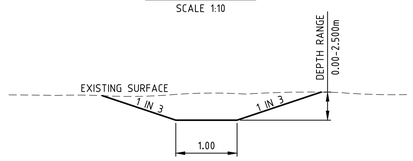
B2 KERB & CHANNEL

SCALE 1:10



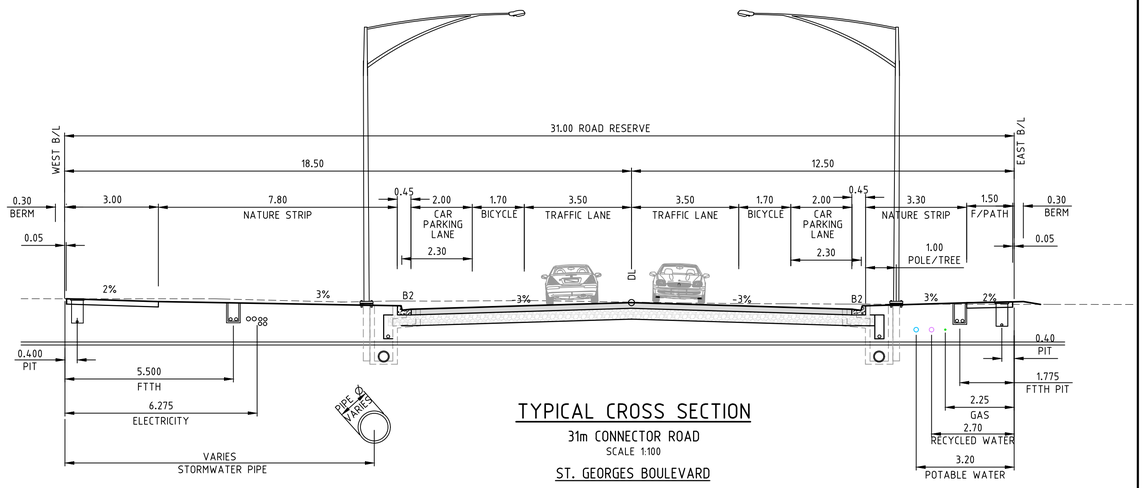
EDGE STRIP

SCALE 1:10



TYPICAL SECTIONS TEMPORARY OPEN EARTH DRAIN

SCALE 1:50

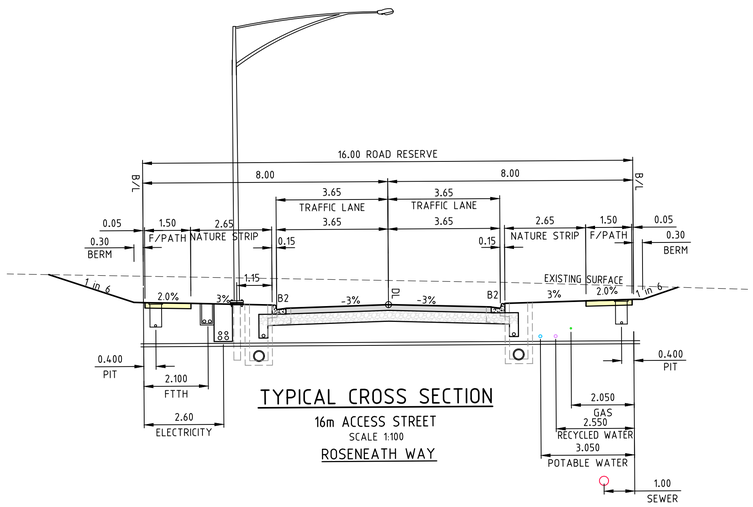


TYPICAL CROSS SECTION

31m CONNECTOR ROAD

SCALE 1:100

ST. GEORGES BOULEVARD

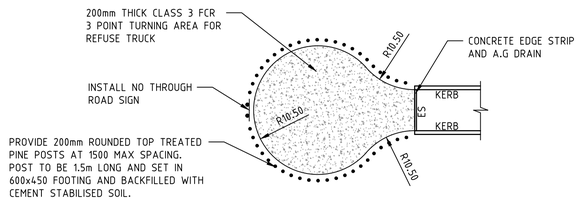


TYPICAL CROSS SECTION

16m ACCESS STREET

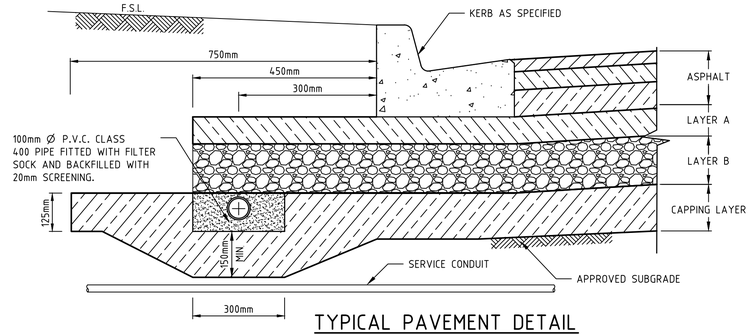
SCALE 1:100

ROSENEATH WAY



TEMPORARY END ROAD DETAIL

SCALE 1:500

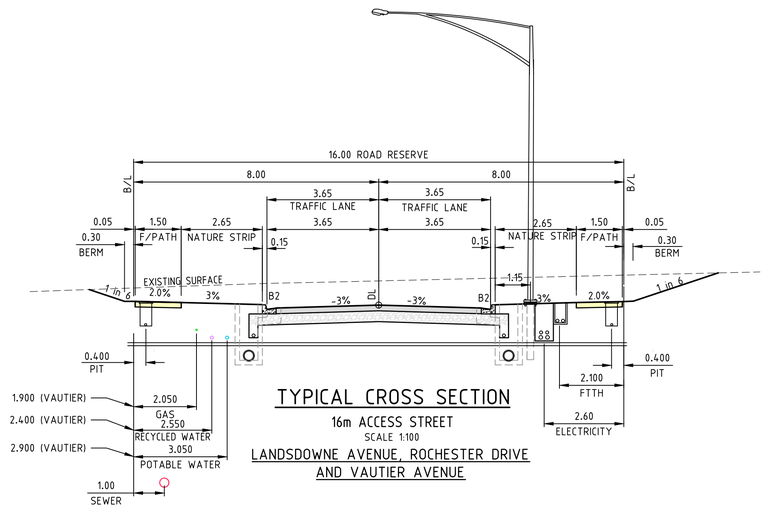


TYPICAL PAVEMENT DETAIL

MAJOR CONNECTOR & CONNECTOR ROADS

ST. GEORGES BOULEVARD

SCALE 1:10

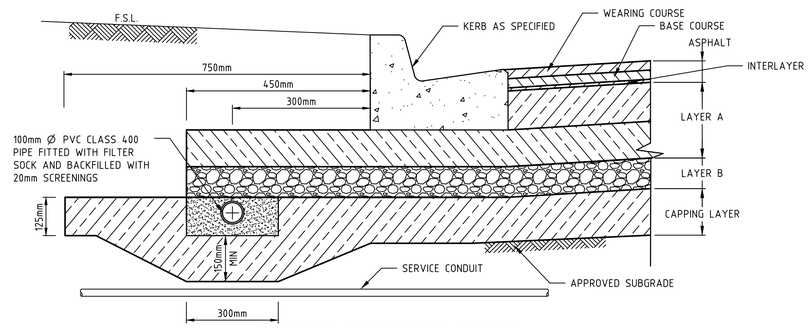


TYPICAL CROSS SECTION

16m ACCESS STREET

SCALE 1:100

LANDSDOWNE AVENUE, ROCHESTER DRIVE AND VAUTIER AVENUE



TYPICAL PAVEMENT DETAIL

ACCESS STREETS/PLACES

CARLINGFORD ROAD, LANDSDOWNE AVENUE, ROCHESTER DRIVE ROSENEATH WAY & VAUTIER AVENUE

SCALE 1:10

PAVEMENT DETAILS

	CONNECTOR ROAD / STREETS ST. GEORGES BOULEVARD	ACCESS STREETS / PLACES CARLINGFORD ROAD, LANDSDOWNE AVENUE, ROCHESTER DRIVE ROSENEATH WAY & VAUTIER AVENUE
ASPHALT	WEARING COURSE 40mm SIZE 14mm TYPE N ASPHALT INTERMEDIATE COURSE 1 75mm SIZE 20mm TYPE SI ASPHALT BASE COURSE 75mm SIZE 20mm TYPE SF 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	UPPER SUBBASE: 100mm SIZE 20mm 3% CEMENT TREATED CRUSHED ROCK (E=500MPa)	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	LOWER SUBBASE: 100mm SIZE 20 CLASS 4 CRUSHED ROCK
CAPPING LAYER	CAPPING 150mm REFER SECTION 7.4 OF REPORT	CAPPING 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

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\R0\11731TD01.dwg - 11731TD02
Date/Time: Fri May 20, 2016 - 9:22am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
2	AS CONSTRUCTED	20/05/16	TL
1	PAVEMENT DETAILS TABLE AMENDED	17/12/15	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541110
Verified B.GORDON
Date 17/03/15
AN 162122
Audited S.LEA
Date 27/11/15
AN 1062197
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884907

AS CONSTRUCTED

merrifield

MAB gpc

Coords: MGA
Levels: AHD

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

Scale @ A1/A3

MERRIFIELD DEVELOPMENT

DONNYBROOK ROAD, MICKLEHAM

STAGE 11

TYPICAL SECTIONS AND DETAILS

Drawing No. 11731TD02 Rev 2

Sheet No. 02 AS CONSTRUCTED

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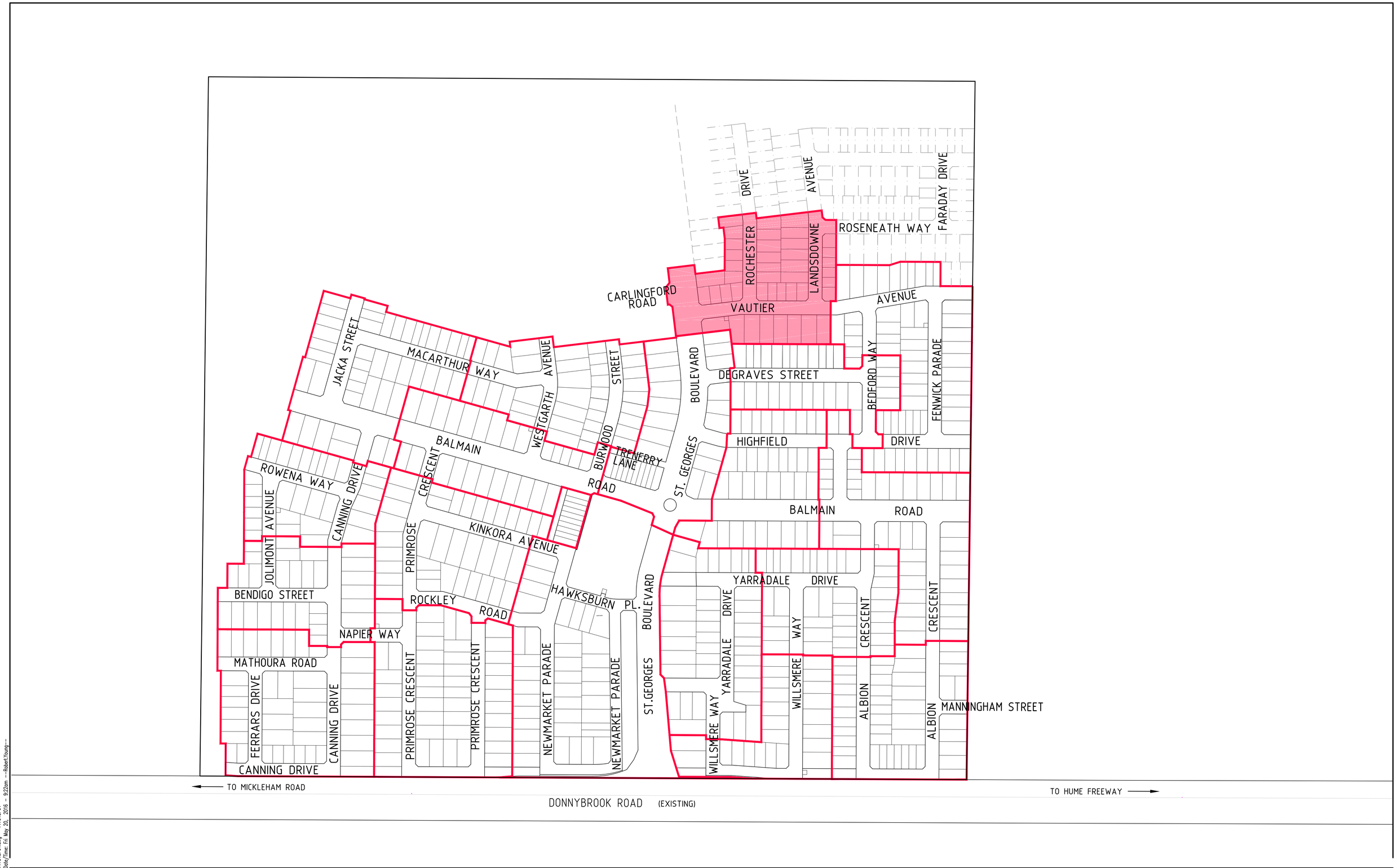

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11731SP01.dwg - 11731SP01
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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

Drawn K.PAGE
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AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541111
Verified B.GORDON
Date 17/03/15
AN 162123
Audited S.LEA
Date 27/11/15
AN 1062198
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884908

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
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 11
STAGING PLAN

Drawing No. 11731SP01 Rev 1
Sheet No. 03 AS CONSTRUCTED

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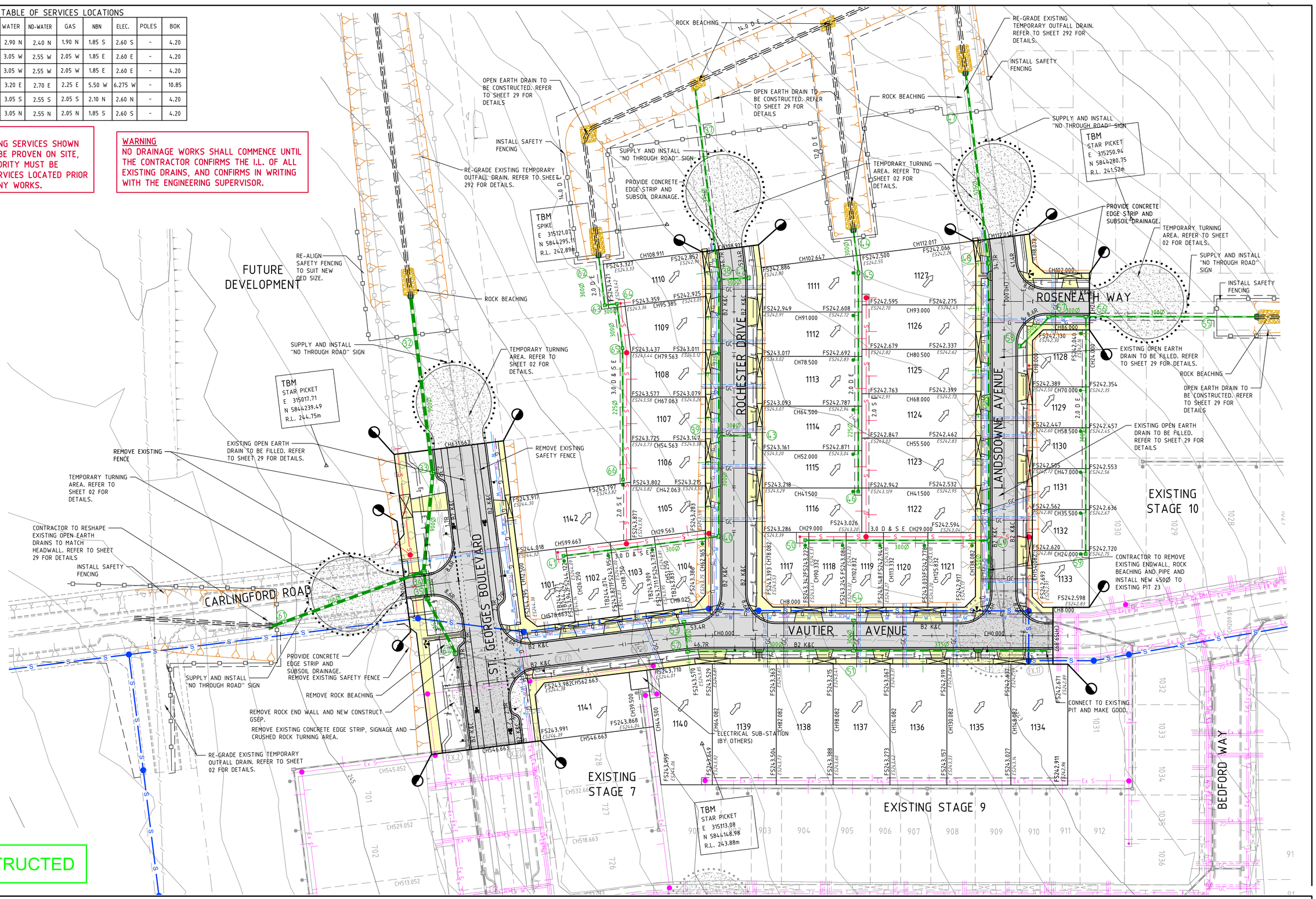
TABLE OF SERVICES LOCATIONS

STREET NAME	WATER	NO-WATER	GAS	NBN	ELEC.	POLES	BOK
VAUTIER AVENUE	2.90 N	2.40 N	1.90 N	1.85 S	2.60 S	-	4.20
LANDSDOWNE AVENUE	3.05 W	2.55 W	2.05 W	1.85 E	2.60 E	-	4.20
ROCHESTER DRIVE	3.05 W	2.55 W	2.05 W	1.85 E	2.60 E	-	4.20
ST. GEORGES BOULEVARD	3.20 E	2.70 E	2.25 E	5.50 W	6.275 W	-	10.85
ROSENEATH WAY	3.05 S	2.55 S	2.05 S	2.10 N	2.60 N	-	4.20
CARLINGFORD ROAD	3.05 N	2.55 N	2.05 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

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REV	AMENDMENTS	DATE	APP'D.
2	AS CONSTRUCTED	20/05/16	TL
1	SERVICE OFFSET TABLE UPDATED	13/01/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

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Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541112
Verified B.GORDON
Date 17/03/15
AN 162124
Audited S.LEA
Date 27/11/15
AN 1062199
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884909

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
- V — EXISTING ELEC. POLE & O'HEAD LINES
- EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- ES20.06 — EXISTING SURFACE LEVEL
- FS21.650 — FINISHED SURFACE LEVEL
- POST AND WIRE FENCE
- LIMIT OF WORKS
- S — BRANCH SEWER MAIN AND MANHOLE
- 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
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- TC — TELECOMM. CONDUIT
- OF — OPTIC FIBRE
- 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

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 11
DETAIL PLAN

Drawing No. 11731DP01 Rev 2
Sheet No. 04 AS CONSTRUCTED

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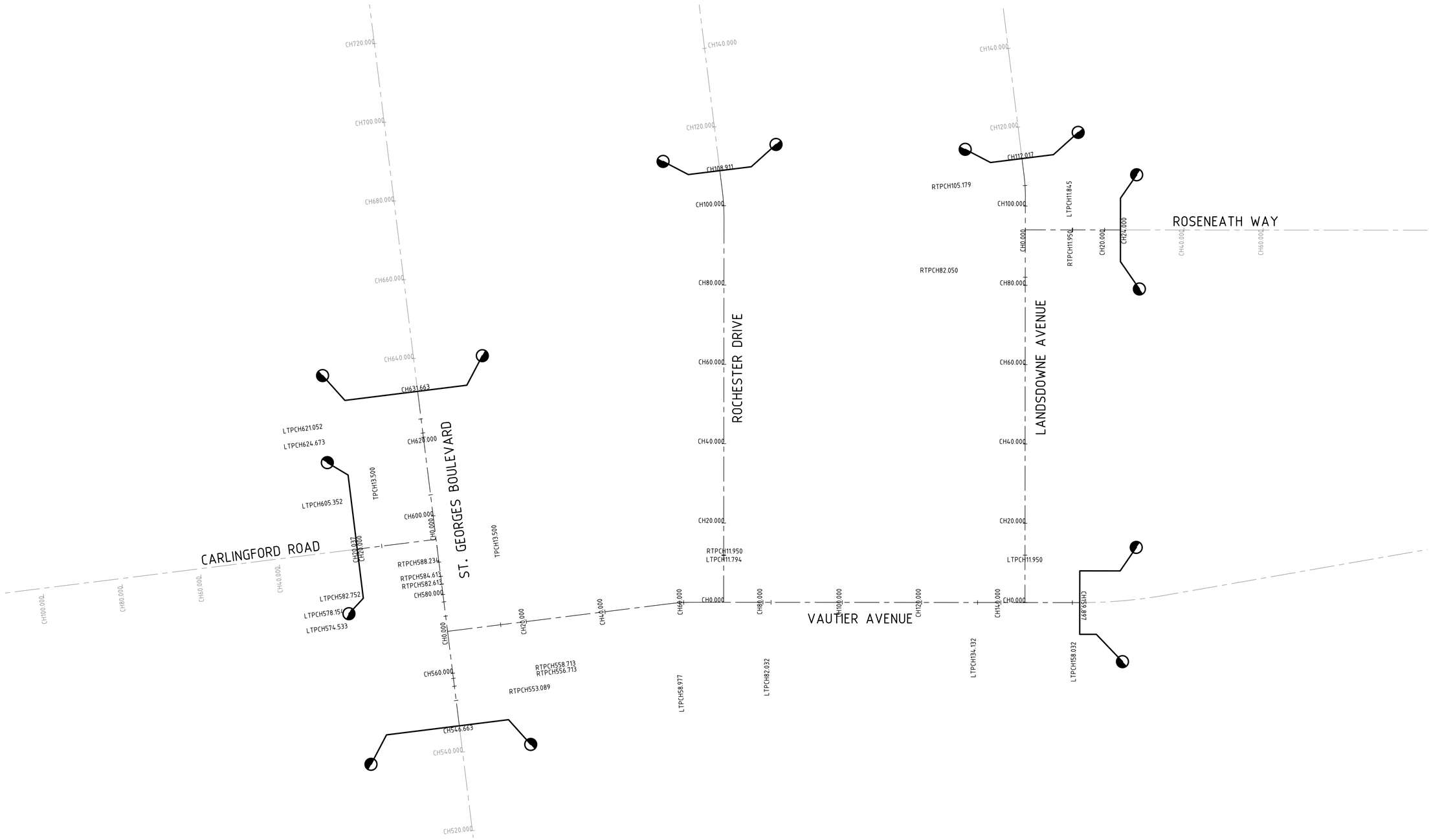

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11731SOP01.dwg - 11731SOP01
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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541113
Verified B.GORDON
Date 17/03/15
AN 162125
Audited S.LEA
Date 27/11/15
AN 1062200
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884910

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 11
SET OUT DETAILS
SHEET 01 OF 02
Drawing No. 11731SOP01 Rev 1
Sheet No. 05 AS CONSTRUCTED

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HORIZONTAL ALIGNMENT REPORT FOR VAUTIER AVENUE

POINT TYPE	CHAINAGE	COORDINATES EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315055.620	5844179.329	244.081	89°54'03.20"	
STRAIGHT	20.000	315075.620	5844179.364	243.858	89°54'03.20"	
STRAIGHT	40.000	315095.620	5844179.398	243.695	89°54'03.20"	
TANGENT-CURVE	56.289	315111.909	5844179.427	243.544	89°54'03.20"	
CURVE	60.000	315115.616	5844179.295	243.510	94°09'11.29"	50.000
CURVE-TANGENT	62.530	315118.134	5844179.048	243.486	97°03'10.00"	50.000
STRAIGHT	80.000	315135.472	5844176.903	243.325	97°03'10.00"	
STRAIGHT	100.000	315155.321	5844174.448	243.140	97°03'10.00"	
STRAIGHT	120.000	315175.169	5844171.992	242.955	97°03'10.00"	
STRAIGHT	140.000	315195.018	5844169.536	242.771	97°03'10.00"	
TANGENT-CURVE	159.897	315214.764	5844167.093	242.587	97°03'10.00"	
CURVE	160.000	315214.867	5844167.081	242.586	97°00'20.31"	-125.000
CURVE	170.000	315224.830	5844166.259	242.494	92°25'19.12"	-125.000
CURVE	180.000	315234.827	5844166.236	242.401	87°50'17.94"	-125.000
CURVE-TANGENT	181.605	315236.431	5844166.307	242.393	87°06'09.86"	-125.000
STRAIGHT	200.000	315254.802	5844167.237	242.301	87°06'09.86"	
STRAIGHT	220.000	315274.777	5844168.248	242.201	87°06'09.86"	
STRAIGHT	240.000	315294.751	5844169.259	242.021	87°06'09.86"	
STRAIGHT	260.000	315314.726	5844170.270	241.707	87°06'09.86"	
TANGENT-CURVE	261.839	315316.562	5844170.363	241.673	87°06'09.86"	
CURVE	270.000	315324.720	5844170.553	241.522	90°13'11.66"	150.000
CURVE	280.000	315334.711	5844170.182	241.337	94°02'22.64"	150.000
CURVE-TANGENT	287.888	315342.562	5844169.419	241.191	97°03'10.00"	150.000
STRAIGHT	300.000	315354.582	5844167.932	240.967	97°03'10.00"	
STRAIGHT	320.000	315374.430	5844165.477	240.597	97°03'10.00"	
STRAIGHT	340.000	315394.279	5844163.021	240.224	97°03'10.00"	
STRAIGHT	360.000	315414.128	5844160.565	239.849	97°03'10.00"	
STRAIGHT	380.000	315433.976	5844158.110	239.474	97°03'10.00"	
STRAIGHT	400.000	315453.825	5844155.654	239.099	97°03'10.00"	
STRAIGHT	420.000	315473.674	5844153.198	238.724	97°03'10.00"	
STRAIGHT (END ALN)	429.675	315483.276	5844152.010	238.543	97°03'10.00"	

HORIZONTAL ALIGNMENT REPORT FOR ST GEORGES BOULEVARD

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	314942.947	5843625.868	249.145	6°06'33.32"	
STRAIGHT	20.000	314945.076	5843645.754	248.366	6°06'33.32"	
STRAIGHT	40.000	314947.204	5843665.641	247.766	6°06'33.32"	
STRAIGHT	60.000	314949.333	5843685.527	247.435	6°06'33.32"	
STRAIGHT	80.000	314951.461	5843705.413	247.321	6°06'33.32"	
TANGENT-CURVE	91.770	314952.714	5843717.117	247.336	6°06'33.32"	
CURVE	100.000	314953.836	5843725.268	247.377	9°33'48.95"	136.500
CURVE-TANGENT	100.096	314953.852	5843725.363	247.378	9°36'14.40"	136.500
STRAIGHT	120.000	314957.172	5843744.988	247.321	9°36'14.40"	
TANGENT-CURVE	129.286	314958.722	5843754.144	247.274	9°36'14.40"	
CURVE	130.000	314958.839	5843754.848	247.271	9°19'07.89"	-143.500
CURVE-TANGENT	138.039	314959.918	5843762.813	247.230	6°06'33.32"	-143.500
STRAIGHT	140.000	314960.127	5843764.763	247.221	6°06'33.32"	
STRAIGHT	160.000	314962.255	5843784.650	247.277	6°06'33.32"	
STRAIGHT	180.000	314964.384	5843804.536	247.246	6°06'33.32"	
STRAIGHT	200.000	314966.512	5843824.423	247.046	6°06'33.32"	
STRAIGHT	220.000	314968.641	5843844.309	246.846	6°06'33.32"	
TANGENT-CURVE	236.868	314970.436	5843861.082	246.666	6°06'33.32"	
CURVE	240.000	314970.816	5843864.190	246.631	7°50'34.17"	103.500
CURVE	246.667	314971.938	5843870.760	246.556	11°32'00.15"	103.500
CURVE	253.333	314973.480	5843877.245	246.482	15°13'26.13"	103.500
CURVE	260.000	314975.437	5843883.617	246.407	18°54'52.11"	103.500
CURVE-TANGENT	266.404	314977.699	5843889.607	246.335	22°27'34.26"	103.500
STRAIGHT	280.000	314982.893	5843902.172	246.220	22°27'34.26"	
STRAIGHT	300.000	314990.533	5843920.655	246.120	22°27'34.26"	
STRAIGHT	320.000	314998.174	5843939.138	246.020	22°27'34.26"	
STRAIGHT	340.000	315005.815	5843957.621	245.875	22°27'34.26"	
STRAIGHT	360.000	315013.455	5843976.104	245.658	22°27'34.26"	
STRAIGHT	380.000	315021.096	5843994.587	245.362	22°27'34.26"	
STRAIGHT	400.000	315028.736	5844013.070	245.232	22°27'34.26"	
STRAIGHT	420.000	315036.377	5844031.553	245.178	22°27'34.26"	
TANGENT-CURVE	433.430	315041.508	5844043.964	245.215	22°27'34.26"	
CURVE	440.000	315043.911	5844050.078	245.180	20°27'06.61"	-187.500
CURVE	450.000	315047.153	5844059.537	245.059	17°23'45.82"	-187.500
CURVE	460.000	315049.887	5844069.155	244.926	14°20'25.03"	-187.500
CURVE	470.000	315052.105	5844078.904	244.792	11°17'04.24"	-187.500
CURVE	480.000	315053.799	5844088.759	244.659	8°13'43.45"	-187.500
CURVE	490.000	315054.966	5844098.689	244.525	5°10'22.66"	-187.500
CURVE	500.000	315055.602	5844108.668	244.392	2°07'01.87"	-187.500
CURVE-TANGENT	507.253	315055.729	5844115.919	244.295	359°54'03.33"	-187.500
STRAIGHT	520.000	315055.707	5844128.666	244.135	359°54'03.33"	
STRAIGHT	540.000	315055.673	5844148.666	244.000	359°54'03.33"	
STRAIGHT	560.000	315055.638	5844168.666	244.027	359°54'03.33"	
STRAIGHT	580.000	315055.603	5844188.666	244.117	359°54'03.33"	
STRAIGHT	600.000	315055.569	5844208.666	243.991	359°54'03.33"	
STRAIGHT	620.000	315055.534	5844228.666	243.865	359°54'03.33"	
STRAIGHT	640.000	315055.500	5844248.666	243.739	359°54'03.33"	
STRAIGHT	660.000	315055.465	5844268.666	243.614	359°54'03.33"	
STRAIGHT	680.000	315055.431	5844288.666	243.488	359°54'03.33"	
STRAIGHT	700.000	315055.396	5844308.666	243.362	359°54'03.33"	
STRAIGHT	720.000	315055.361	5844328.666	243.236	359°54'03.33"	
STRAIGHT	740.000	315055.327	5844348.666	243.110	359°54'03.33"	
STRAIGHT	760.000	315055.292	5844368.666	242.984	359°54'03.33"	
STRAIGHT	780.000	315055.258	5844388.666	242.858	359°54'03.33"	
STRAIGHT	800.000	315055.223	5844408.666	242.732	359°54'03.33"	
STRAIGHT	820.000	315055.188	5844428.666	242.606	359°54'03.33"	
STRAIGHT	840.000	315055.154	5844448.666	242.428	359°54'03.33"	
STRAIGHT	860.000	315055.119	5844468.666	242.231	359°54'03.33"	
STRAIGHT	880.000	315055.085	5844488.666	242.035	359°54'03.33"	
STRAIGHT (END ALN)	882.579	315055.080	5844491.244	242.009	359°54'03.33"	

HORIZONTAL ALIGNMENT REPORT FOR ROCHESTER DRIVE.

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315125.629	5844178.121	243.417	7°03'10.00"	
STRAIGHT	20.000	315128.084	5844197.970	243.215	7°03'10.00"	
STRAIGHT	40.000	315130.540	5844217.818	243.106	7°03'10.00"	
STRAIGHT	60.000	315132.996	5844237.667	242.997	7°03'10.00"	
STRAIGHT	80.000	315135.452	5844257.516	242.888	7°03'10.00"	
TANGENT-CURVE	97.221	315137.566	5844274.607	242.795	7°03'10.00"	
CURVE	100.000	315137.830	5844277.372	242.780	3°52'06.67"	-50.000
CURVE-TANGENT	103.462	315137.944	5844280.832	242.761	359°54'03.33"	-50.000
STRAIGHT	120.000	315137.916	5844297.370	242.671	359°54'03.33"	
STRAIGHT	140.000	315137.881	5844317.370	242.562	359°54'03.33"	
STRAIGHT	160.000	315137.846	5844337.370	242.347	359°54'03.33"	
STRAIGHT	180.000	315137.812	5844357.370	242.132	359°54'03.33"	
STRAIGHT	200.000	315137.777	5844377.370	241.917	359°54'03.33"	
STRAIGHT (END ALN)	215.000	315137.751	5844392.370	241.756	359°54'03.33"	

HORIZONTAL ALIGNMENT REPORT FOR LANDSDOWNE AVENUE

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315201.054	5844168.790	242.714	7°03'10.00"	
STRAIGHT	20.000	315203.509	5844188.638	242.519	7°03'10.00"	
STRAIGHT	40.000	315205.965	5844208.487	242.419	7°03'10.00"	
STRAIGHT	60.000	315208.421	5844228.336	242.319	7°03'10.00"	
STRAIGHT	80.000	315210.876	5844248.184	242.219	7°03'10.00"	
STRAIGHT	100.000	315213.332	5844268.033	242.081	7°03'10.00"	
TANGENT-CURVE	102.721	315213.666	5844270.733	242.050	7°03'10.00"	
CURVE	105.000	315213.878	5844273.002	242.025	3°36'57.26"	-38.000
CURVE-TANGENT	107.464	315213.954	5844275.464	241.997	359°54'03.33"	-38.000
STRAIGHT	120.000	315213.932	5844288.000	241.855	359°54'03.33"	
STRAIGHT	140.000	315213.897	5844308.000	241.629	359°54'03.33"	
STRAIGHT	160.000	315213.863	5844328.000	241.403	359°54'03.33"	
STRAIGHT	180.000	315213.828	5844348.000	241.177	359°54'03.33"	
STRAIGHT	200.000	315213.794	5844368.000	240.951	359°54'03.33"	
STRAIGHT (END ALN)	212.000	315213.773	5844380.000	240.816	359°54'03.33"	

HORIZONTAL ALIGNMENT REPORT FOR ROSENEATH WAY

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT	40.000	315252.293	5844257.167	241.735	97°03'10.00"	
STRAIGHT	60.000	315272.141	5844254.711	241.409	97°03'10.00"	
STRAIGHT	80.000	315291.990	5844252.256	241.078	97°03'10.00"	
STRAIGHT	100.000	315311.839	5844249.800	240.747	97°03'10.00"	
STRAIGHT	120.000	315331.687	5844247.344	240.416	97°03'10.00"	
STRAIGHT	140.000	315351.536	5844244.889	240.085	97°03'10.00"	
STRAIGHT	160.000	315371.385	5844242.433	239.754	97°03'10.00"	
STRAIGHT	180.000	315391.233	5844239.977	239.423	97°03'10.00"	
STRAIGHT (END ALN)	182.770	315393.982	5844239.637	239.377	97°03'10.00"	

HORIZONTAL ALIGNMENT REPORT FOR CARLINGFORD ROAD

POINT TYPE	CHAINAGE	EASTING	COORDINATES NORTHING	RL	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315055.579	5844202.718	244.029	269°54'03.32"	
STRAIGHT	20.000	315035.579	5844202.684	243.957	269°54'03.32"	
TANGENT-TANGENT	20.037	315035.543	5844202.683	243.958	269°54'03.32"	
STRAIGHT	40.000	315015.579	5844202.649	244.276	269°54'03.33"	
STRAIGHT	60.000	314995.579	5844202.614	244.596	269°54'03.33"	
STRAIGHT	80.000	314975.579	5844202.580	244.915	269°54'03.33"	
STRAIGHT	100.000	314955.579	5844202.545	245.188	269°54'03.33"	
TANGENT-TANGENT	118.450	314937.129	5844202.513	245.369	269°54'03.33"	
STRAIGHT	120.000	314935.579	5844202.511	245.384	269°54'03.33"	
STRAIGHT	140.000	314915.579	5844202.476	245.580	269°54'03.33"	
TANGENT-CURVE	157.767	314897.812	5844202.445	245.754	269°54'03.33"	
CURVE	160.000	314895.579	5844202.430	245.776	269°19'56.68"	-225.000
CURVE (END ALN)	169.094	314886.491	5844202.141	245.865	267°00'59.80"	-225.000

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11731SOP01.dwg - 11731SOP02
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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541114
Verified B.GORDON
Date 17/03/15
AN 162126
Audited S.LEA
Date 27/11/15
AN 1062201
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884911

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
MAB GPC
Coords: MGA
Levels: AHD
Scale @ A1/A3

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
SETOUT DETAILS
SHEET 02 OF 02
Drawing No. 11731SOP02 Rev 1
Sheet No. 06 AS CONSTRUCTED

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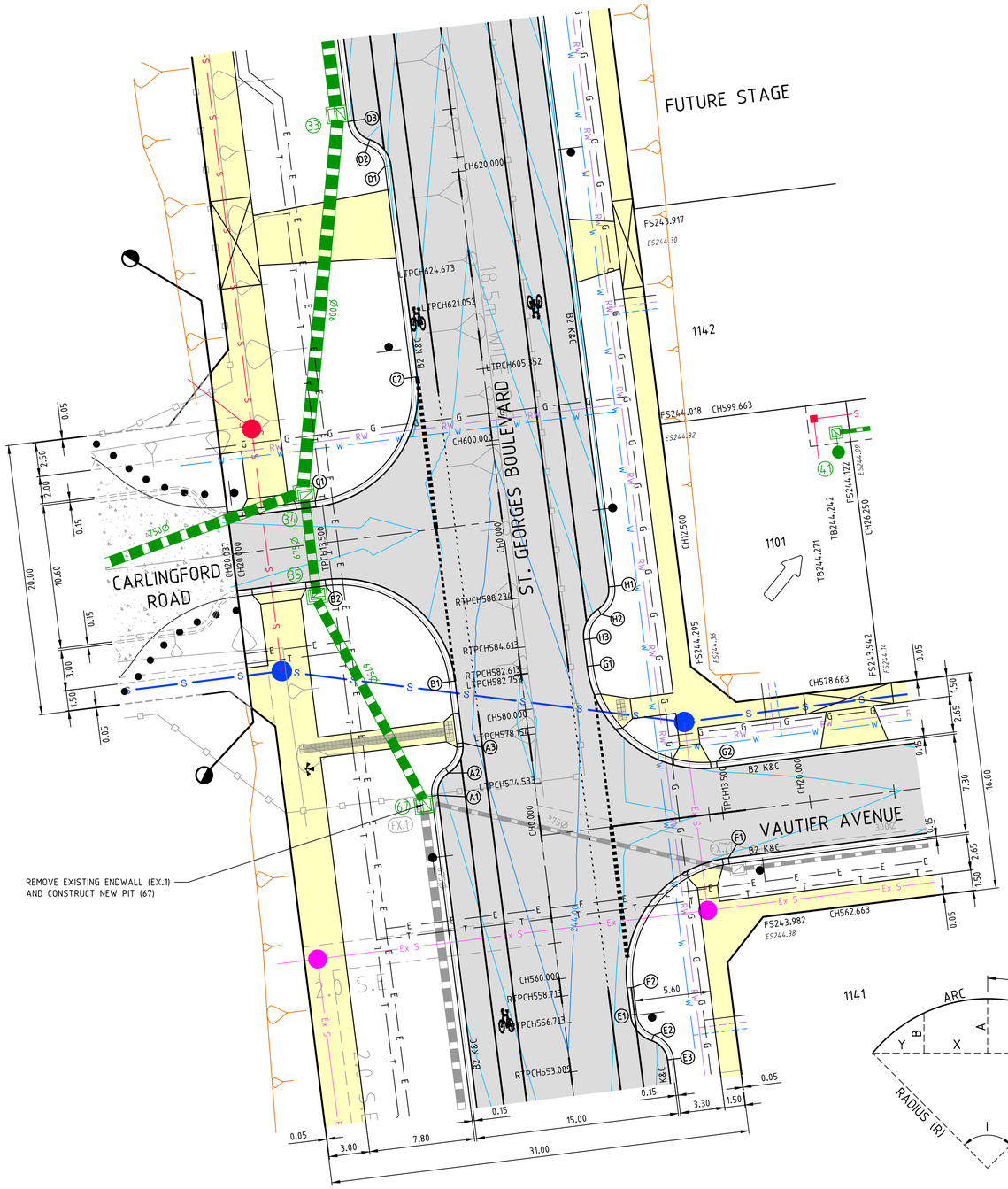
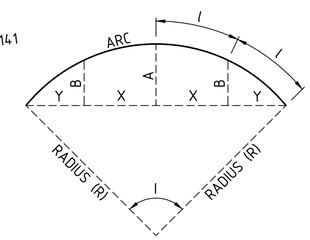


PLAN
SCALE 1:200



LIP SETOUT DETAIL
N.T.S

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	315048.413	5844183.187	243.884
A2	315049.388	5844184.728	243.917
A3	315050.707	5844186.812	243.971

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
A1 - A2	64.849	1.700	1.924	0.265	0.197	0.475	0.437	0.481	243.895
A2 - A3	64.849	2.300	2.603	0.359	0.267	0.642	0.591	0.651	243.954

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	315050.699	5844191.410	243.953
B2	315042.084	5844199.995	243.844

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	243.897

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	315042.075	5844205.395	243.844
C2	315050.660	5844214.010	243.811

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	243.853

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	315050.633	5844229.709	243.712
D2	315049.306	5844231.789	243.655
D3	315048.326	5844233.326	243.620

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
D1 - D2	64.849	2.300	2.603	0.359	0.267	0.642	0.591	0.651	243.693
D2 - D3	64.849	1.700	1.924	0.265	0.197	0.475	0.437	0.481	243.632

ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	315060.544	5844165.388	243.864
E2	315061.870	5844163.308	243.810
E3	315062.850	5844161.771	243.777

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
E1 - E2	64.849	2.300	2.603	0.359	0.267	0.642	0.591	0.651	243.847
E2 - E3	64.849	1.700	1.924	0.265	0.197	0.475	0.437	0.481	243.788

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	315069.125	5844176.003	243.790
F2	315060.540	5844167.388	243.874

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	243.845

ALIGNMENT G

POINT NO	EASTING	NORTHING	RL
G1	315060.499	5844191.288	243.954
G2	315069.114	5844182.702	243.790

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	243.886

ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	315062.789	5844196.912	243.849
H2	315061.814	5844195.372	243.885
H3	315060.495	5844193.288	243.941

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
H1 - H2	64.849	1.700	1.924	0.265	0.197	0.475	0.437	0.481	243.861
H2 - H3	64.849	2.300	2.603	0.359	0.267	0.642	0.591	0.651	243.922

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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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541115
Verified B.GORDON
Date 17/03/15
AN 162127
Audited S.LEA
Date 27/11/15
AN 1062202
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884912

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.

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
- CONSTRUCTED PRE DEVELOPMENT
- ES20.06 EXISTING SURFACE LEVEL
- FS21.650 FINISHED SURFACE LEVEL
- POST AND WIRE FENCE
- LIMIT OF WORKS
- S BRANCH SEWER MAIN AND MANHOLE
- 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
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- TC TELECOMM. CONDUIT
- OF OPTIC FIBRE
- 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

merrifield
MAB gpc

Coords: MGA
Levels: AHD

Hor 1:200 0m 2m 4m 8m 12m

Scale @ A1/A3 1:200/1:500

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
INTERSECTION DETAILS
SHEET 01 OF 06

Drawing No. 11731ID01 Rev 1

Sheet No. 07 AS CONSTRUCTED

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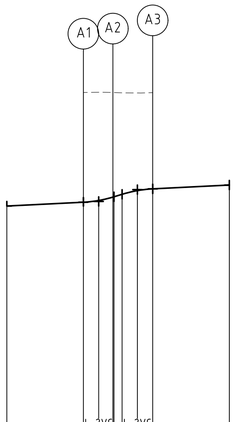
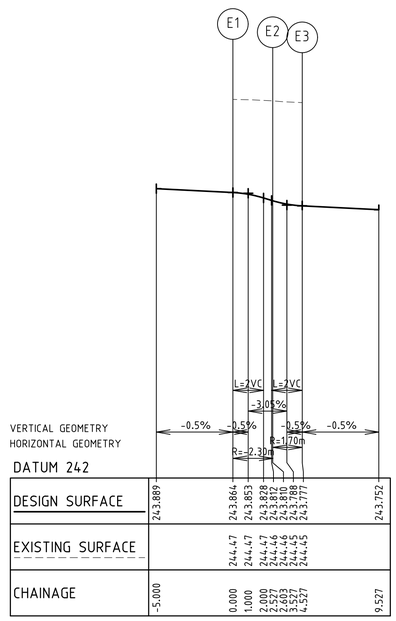


VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 242

| | | |

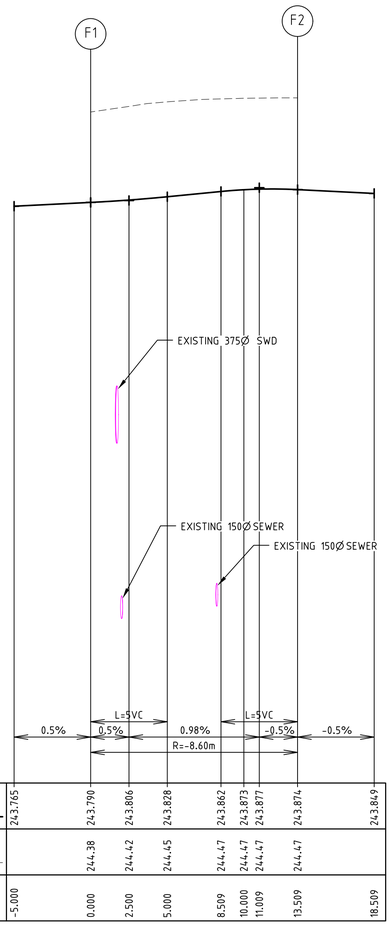


DATUM 242

DESIGN SURFACE	243.889	243.864	243.853	243.828	243.817	243.802	243.788	243.777	243.752			
EXISTING SURFACE		244.47	244.47	244.47	244.46	244.46	244.45	244.45				
CHAINAGE	-5.000	0.000	1.000	2.000	2.527	3.000	3.527	4.527	9.527			

LIP PROFILE E

REFER TO DWG.NO. 11731ID01

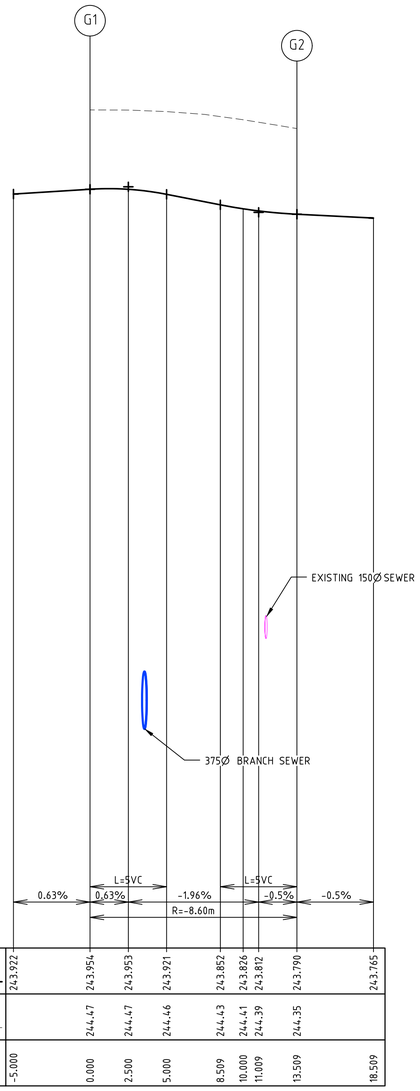


DATUM 240

DESIGN SURFACE	243.765	243.790	243.806	243.828	243.862	243.873	243.877	243.874	243.849
EXISTING SURFACE		244.38	244.42	244.45	244.47	244.47	244.47	244.47	
CHAINAGE	-5.000	0.000	2.500	5.000	8.509	10.000	11.009	13.509	18.509

LIP PROFILE F

REFER TO DWG.NO. 11731ID01

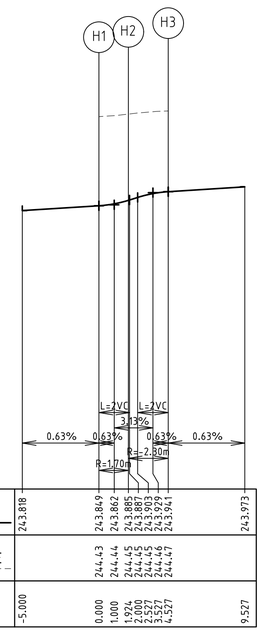


DATUM 239

DESIGN SURFACE	243.922	243.954	243.953	243.921	243.852	243.826	243.812	243.790	243.765
EXISTING SURFACE		244.47	244.47	244.46	244.43	244.41	244.39	244.35	
CHAINAGE	-5.000	0.000	2.500	5.000	8.509	10.000	11.009	13.509	18.509

LIP PROFILE G

REFER TO DWG.NO. 11731ID01



DATUM 242

DESIGN SURFACE	243.818	243.849	243.862	243.885	243.903	243.929	243.941	243.973				
EXISTING SURFACE		244.43	244.44	244.45	244.45	244.46	244.47					
CHAINAGE	-5.000	0.000	1.000	2.000	2.527	3.527	4.527	9.527				

LIP PROFILE H

REFER TO DWG.NO. 11731ID01

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11731ID01.dwg - 11731ID03
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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

Drawn K.PAGE
Date 12/03/15
AN 15110011
Designed N.MIRATANA
Date 10/03/15
AN 1541117
Verified B.GORDON
Date 17/03/15
AN 162129
Audited S.LEA
Date 27/11/15
AN 1062204
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884914

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

Hor 1:200 0m 2m 4m 8m 12m
Ver 1:20 0m 0.2m 0.4m 0.8m 1.2m
Scale @ A1/A3 1:200/1:500

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
INTERSECTION DETAILS
SHEET 03 OF 06
Drawing No. 11731ID03 Rev 1
Sheet No. 09 AS CONSTRUCTED

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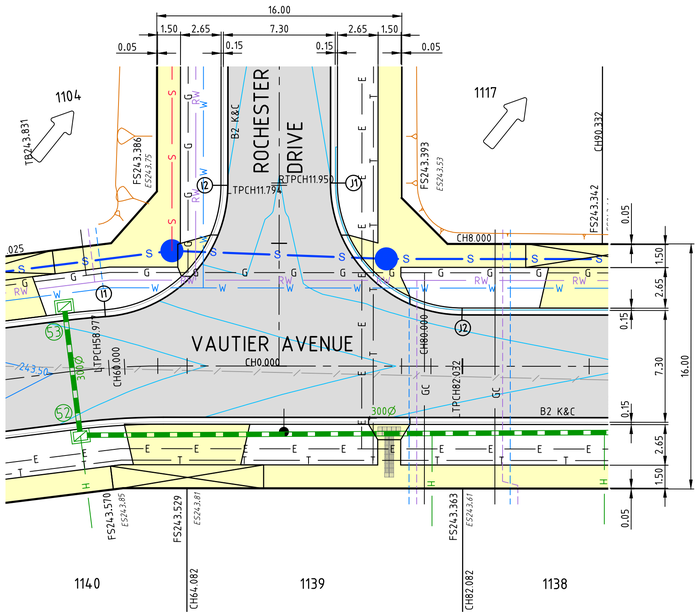
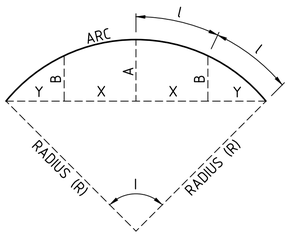


PLAN
SCALE 1:200

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

AS CONSTRUCTED

ALIGNMENT I

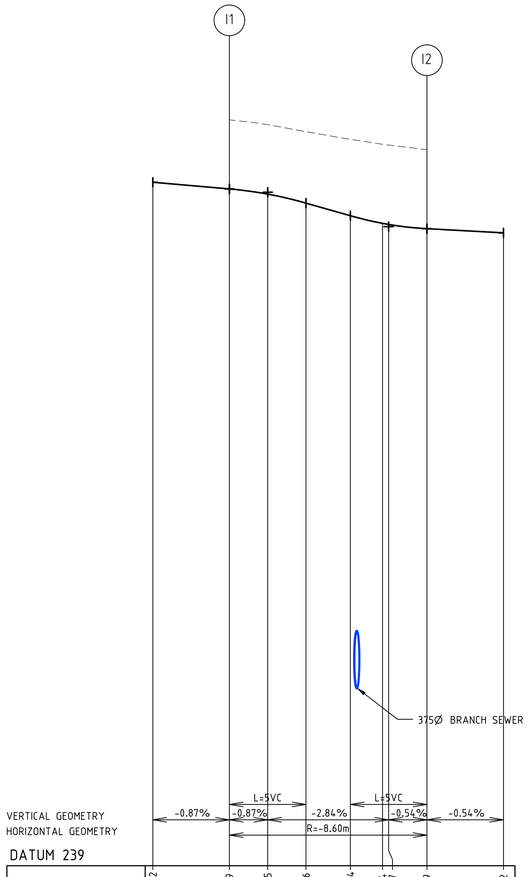
POINT NO	EASTING	NORTHING	RL
I1	315114.770	5844182.704	243.419
I2	315123.752	5844190.237	243.159

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
I1 - I2	85.929	8.600	12.898	2.307	1.709	3.149	2.712	3.224	243.285

ALIGNMENT J

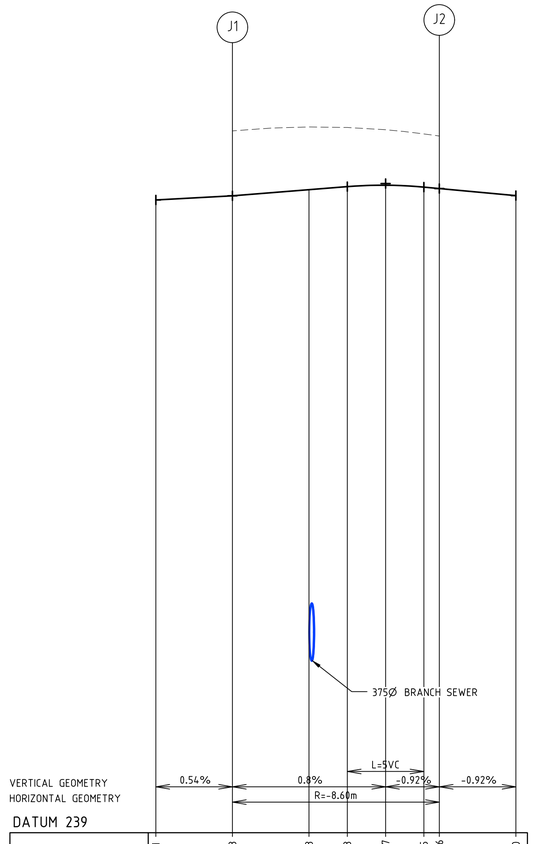
POINT NO	EASTING	NORTHING	RL
J1	315130.421	5844189.569	243.158
J2	315137.900	5844179.978	243.206

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
J1 - J2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	243.212



DESIGN SURFACE	243.462	243.419	243.385	243.326	243.244	243.194 243.187	243.159	243.132
EXISTING SURFACE		243.87	243.84	243.79	243.74	243.71 243.70	243.68	
CHAINAGE	-5.000	0.000	2.500	5.000	7.898	10.000 10.398	12.898	17.898

LIP PROFILE I



DESIGN SURFACE	243.131	243.158	243.198	243.218	243.227	243.215	243.206	243.160
EXISTING SURFACE		243.58	243.61	243.60	243.59	243.56	243.55	
CHAINAGE	-5.000	0.000	5.000	7.500	10.000	12.500	13.509	18.509

LIP PROFILE J

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\R0\
11731ID01.dwg - 11731ID04
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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
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Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541118
Verified B.GORDON
Date 17/03/15
AN 162130
Audited S.LEA
Date 27/11/15
AN 1062205
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884915

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.

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
- V — EXISTING ELEC. POLE & O'HEAD LINES
- EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- ES20.06 EXISTING SURFACE LEVEL
- FS21.650 FINISHED SURFACE LEVEL
- POST AND WIRE FENCE
- LIMIT OF WORKS
- S — BRANCH SEWER MAIN AND MANHOLE
- 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
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- TC — TELECOMM. CONDUIT
- OF — OPTIC FIBRE
- 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

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 1:200/1:500

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
INTERSECTION DETAILS
SHEET 04 OF 06

Drawing No. 11731ID04 Rev 1

Sheet No. 10 AS CONSTRUCTED

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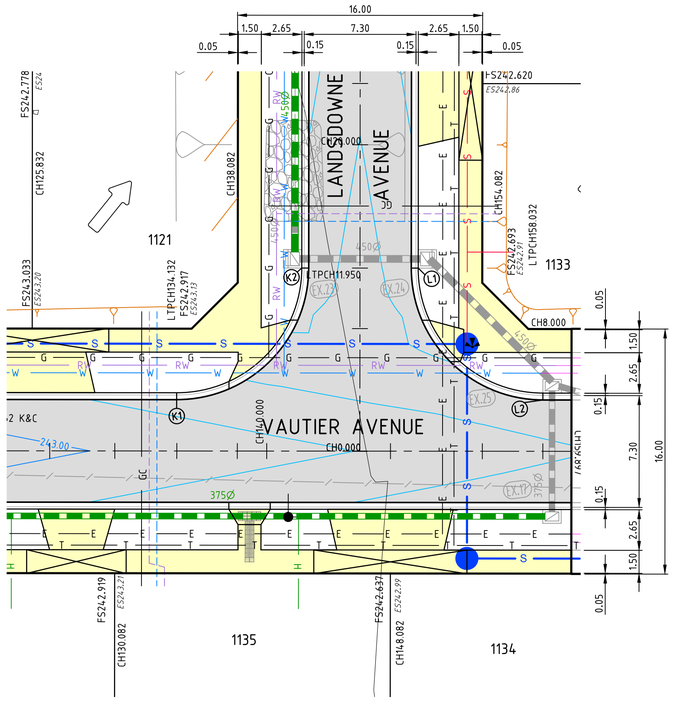


PLAN
SCALE 1:200

ALIGNMENT K

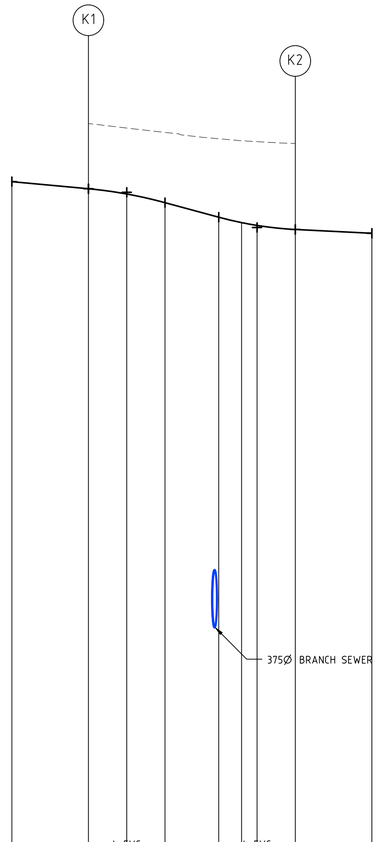
POINT NO	EASTING	NORTHING	RL
K1	315189.606	5844173.581	242.724
K2	315199.196	5844181.060	242.459

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
K1 - K2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	242.586

ALIGNMENT L

POINT NO	EASTING	NORTHING	RL
L1	315205.846	5844180.238	242.459
L2	315213.325	5844170.647	242.504

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
L1 - L2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	242.511

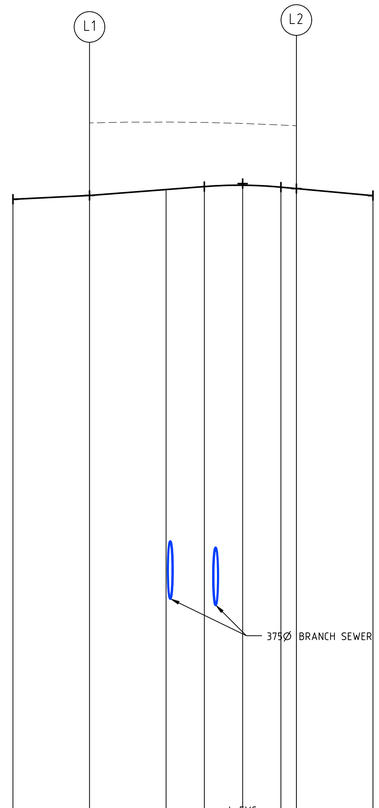


VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 238

DESIGN SURFACE	242.771	242.724	242.690	242.634	242.539	242.503	242.485	242.459	242.434
EXISTING SURFACE		243.15	243.12	243.09	243.05	243.04	243.03	243.02	
CHAINAGE	-5.000	0.000	2.500	5.000	8.509	10.000	11.009	13.509	18.509

LIP PROFILE K



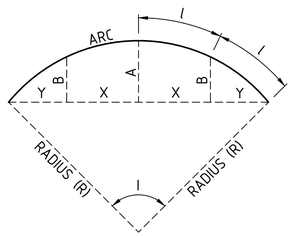
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM 238

DESIGN SURFACE	242.434	242.459	242.497	242.517	242.525	242.513	242.504	242.657
EXISTING SURFACE		242.93	242.94	242.94	242.93	242.92	242.91	
CHAINAGE	-5.000	0.000	5.000	7.500	10.000	12.500	13.509	18.509

LIP PROFILE L

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

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541119
Verified B.GORDON
Date 17/03/15
AN 162131
Audited S.LEA
Date 27/11/15
AN 1062206
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884916

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.

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
- V — EXISTING ELEC. POLE & O'HEAD LINES
- EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- ES20.06 EXISTING SURFACE LEVEL
- FS21.650 FINISHED SURFACE LEVEL
- POST AND WIRE FENCE
- LIMIT OF WORKS
- S — BRANCH SEWER MAIN AND MANHOLE
- 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
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- TC — TELECOMM. CONDUIT
- OF — OPTIC FIBRE
- 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

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 1:200/1:500

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
INTERSECTION DETAILS
SHEET 05 OF 06
Drawing No. 11731ID05 Rev 1
Sheet No. 11 AS CONSTRUCTED

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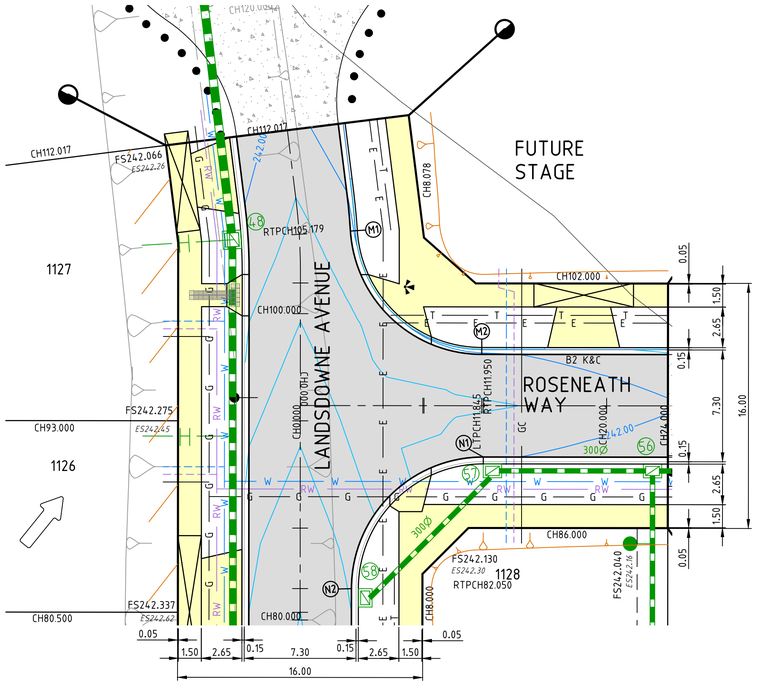
Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\R0\11731ID01.dwg - 11731ID05
Date/Time: Fri May 20, 2016 - 9:22am --Robert.Young--



PLAN
SCALE 1:200

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 M

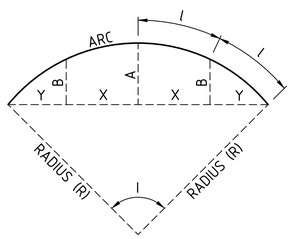
POINT NO	EASTING	NORTHING	RL
M1	315217.233	5844272.985	241.922
M2	315224.763	5844263.948	241.895

CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
M1 - M2	86.293	8.600	12.952	2.325	1.723	3.162	2.719	3.238	241.933

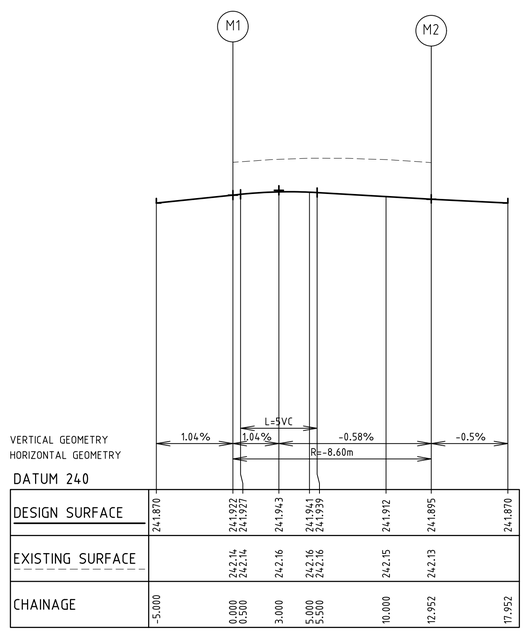
ALIGNMENT N

POINT NO	EASTING	NORTHING	RL
N1	315224.044	5844257.286	241.895
N2	315214.453	5844249.807	242.108

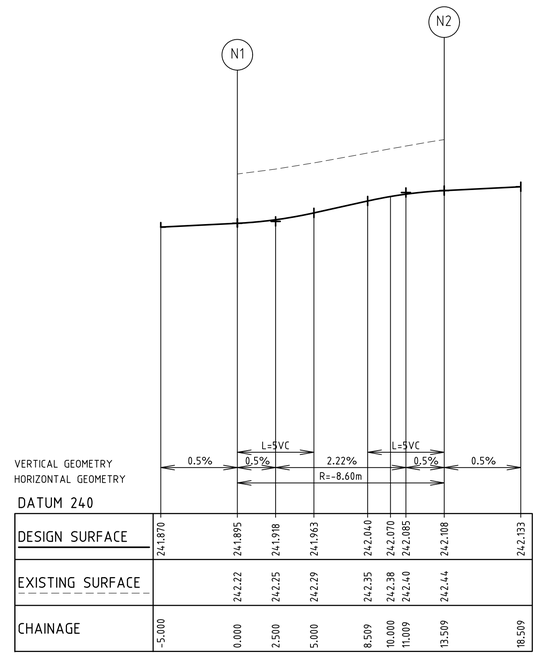
CURVE NO	I	RADIUS	ARC	A	B	X	Y	L	MID POINT RL
N1 - N2	90.002	8.600	13.509	2.519	1.864	3.291	2.790	3.377	242.001



LIP SETOUT DETAIL
N.T.S



LIP PROFILE M



LIP PROFILE N

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541120
Verified B.GORDON
Date 17/03/15
AN 162132
Audited S.LEA
Date 27/11/15
AN 1062207
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884917

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
- V — EXISTING ELEC. POLE & O'HEAD LINES
- EXISTING STORMWATER DRAIN & PIT CONSTRUCTED PRE DEVELOPMENT
- ES20.06 — EXISTING SURFACE LEVEL
- FS21.650 — FINISHED SURFACE LEVEL
- POST AND WIRE FENCE
- LIMIT OF WORKS
- S — BRANCH SEWER MAIN AND MANHOLE
- 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
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- TC — TELECOMM. CONDUIT
- OF — OPTIC FIBRE
- 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

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 1:200/1:500

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
INTERSECTION DETAILS
SHEET 06 OF 06
Drawing No. 11731ID06 Rev 1
Sheet No. 12 AS CONSTRUCTED

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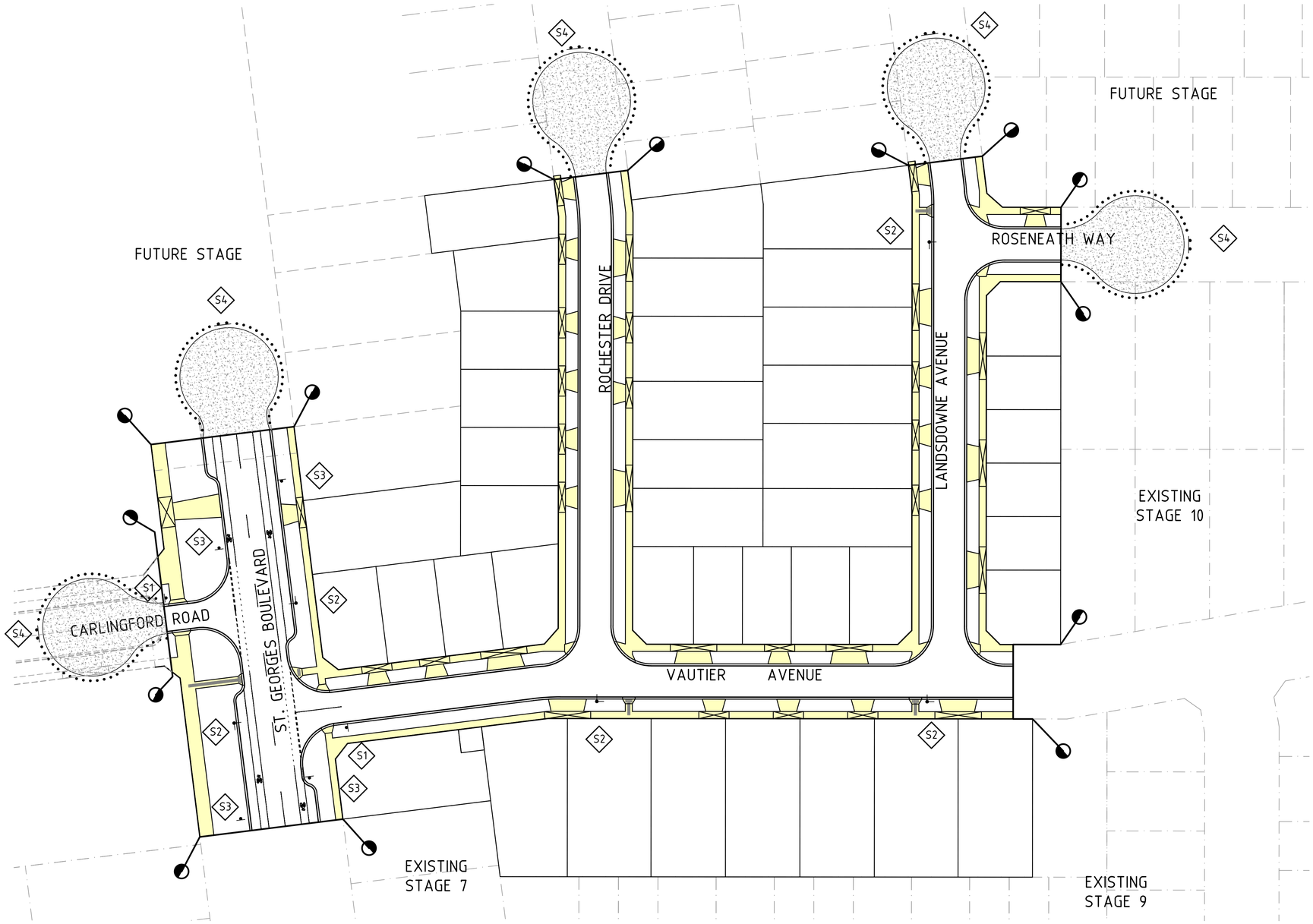

LINEMARKING LEGEND

- 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:

1. ALL WORKS TO BE IN ACCORDANCE WITH AS1742. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS LINEMARKING AND TRAFFIC MANUALS.
2. LINEMARKING SET-OUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
3. ALL LINEMARKING SHALL BE LONG LIFE. REFER TO NOTE 37 11731TD01.
4. ANY OBSOLETE LINEMARKING IS TO BE REMOVED BY GRINDING, STRIPPING OR THE APPLICATION OF BITUMEN BINDER AND GRIT PRIOR TO "NEW" LINEMARKING BEING PLACED.
5. ALL RADII ARE TO LIP OF CHANNEL OR LINE OF KERB. ALL LANE WIDTHS ARE TO LIP OF KERB & CHANNEL
6. RRPM'S TO BE PROVIDED IN ACCORDANCE WITH AS1742.

SIGNAGE LEGEND

N.T.S

SIGN	TYPE
GIVE WAY R1-2	S1
STREET NAME SIGN	S2
LANE R7-1-4	S3
D4-2-1	S4

AS CONSTRUCTED

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11731LM01.dwg - 11731LM01
Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511001
Designed N.MIRATANA
Date 10/03/15
AN 1541121
Verified B.GORDON
Date 17/03/15
AN 162133
Audited S.LEA
Date 27/11/15
AN 1062208
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884918

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 11
SIGNAGE AND LINEMARKING PLAN

Drawing No. 11731LM01 Rev 1
Sheet No. 13 AS CONSTRUCTED

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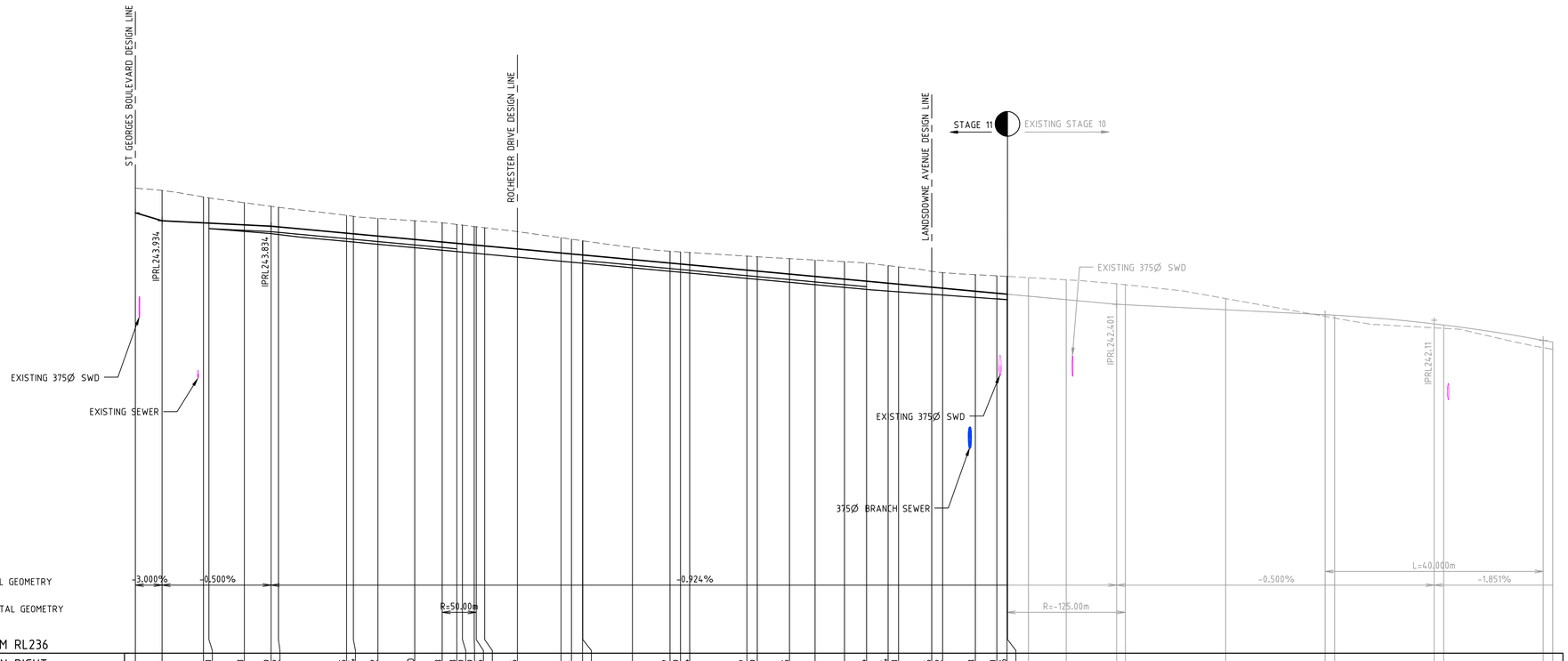

AS CONSTRUCTED

1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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 K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541122
Verified B.GORDON
Date 17/03/15
AN 162134
Audited S.LEA
Date 27/11/15
AN 1062209
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884919

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
LONGITUDINAL SECTIONS
SHEET 01 OF 05
Drawing No. 11731LS01 Rev 1
Sheet No. 14 AS CONSTRUCTED

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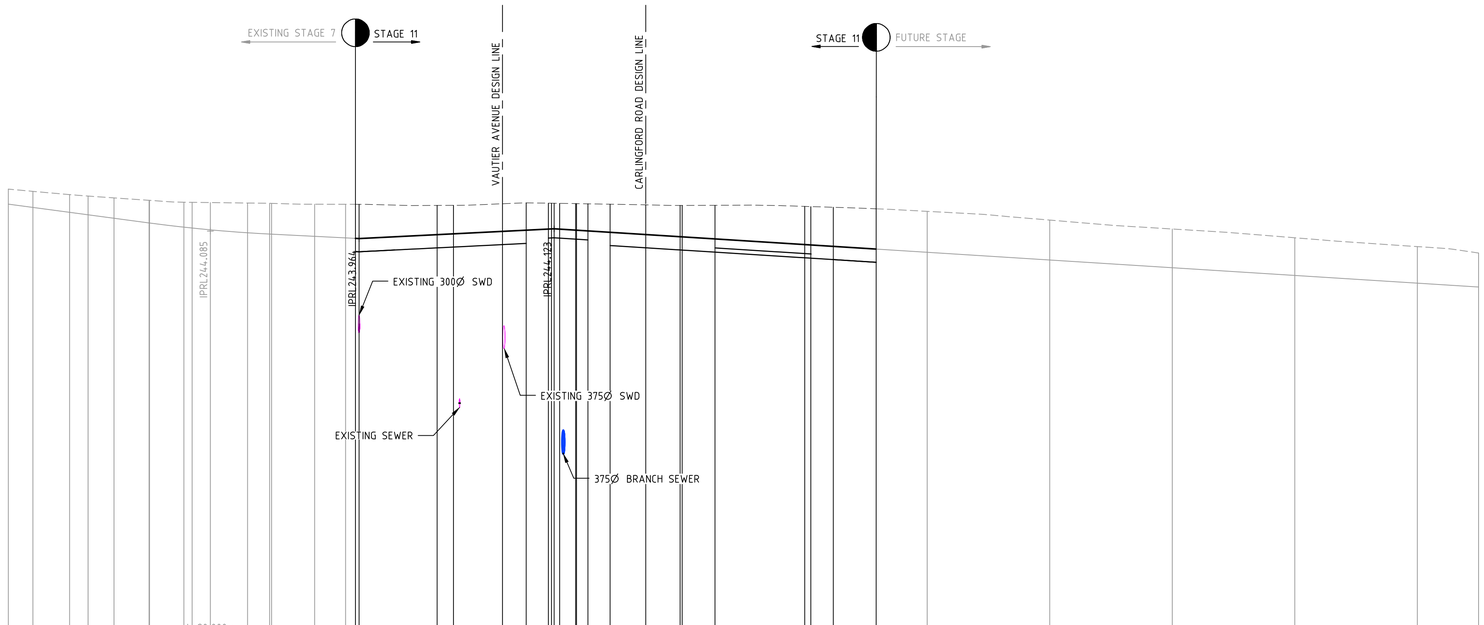
Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--



VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL236

CHAINAGE	DESIGN RIGHT KERB RL	DESIGN LEFT KERB RL	EXISTING SURFACE RL	DESIGN SURFACE RL
490.00			244.771	244.525
494.01			244.734	244.472
500.00			244.681	244.392
503.01			244.657	244.352
507.25			244.627	244.295
512.98			244.587	244.219
513.05			244.587	244.218
518.66			244.557	244.149
520.00			244.556	244.135
522.98			244.551	244.106
529.05			244.543	244.058
532.66			244.538	244.037
532.98			244.537	244.035
540.00			244.524	244.000
545.05	243.751		244.523	243.975
546.66	243.748		244.522	243.967
554.05	243.748		244.522	243.934
560.00		243.811	244.504	244.027
562.66		243.825	244.506	244.041
570.66		243.865	244.531	244.081
574.53		243.884	244.546	244.100
578.15		243.971	244.561	244.118
578.66		243.974	244.564	244.121
579.10		243.976	244.565	244.123
580.00		243.980	244.569	244.127
580.61	243.954	243.954	244.574	244.131
582.15	243.953	243.953	244.584	244.140
582.66	243.951	243.951	244.587	244.143
588.61	243.849	243.849	244.621	244.174
588.83			244.624	244.176
594.05	243.813		244.513	244.029
599.66	243.777		244.504	243.933
600.00	243.775		244.504	243.931
605.35	243.742		244.506	243.958
620.00	243.649	243.718	244.489	243.885
620.66	243.653	243.712	244.485	243.882
624.67	243.620	243.620	244.474	243.836
631.66	243.576	243.576	244.449	243.792
640.00			244.407	243.739
660.00			244.265	243.614
680.00			244.119	243.488
700.00			243.976	243.362
720.00			243.832	243.236
730.00			243.727	243.173

ST GEORGES BOULEVARD

AS CONSTRUCTED

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11731LS01.dwg - 11731LS02
Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541123
Verified B.GORDON
Date 17/03/15
AN 162135
Audited S.LEA
Date 27/11/15
AN 1062210
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884920

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
LONGITUDINAL SECTIONS
SHEET 02 OF 05
Drawing No. 11731LS02 Rev 1
Sheet No. 15 AS CONSTRUCTED

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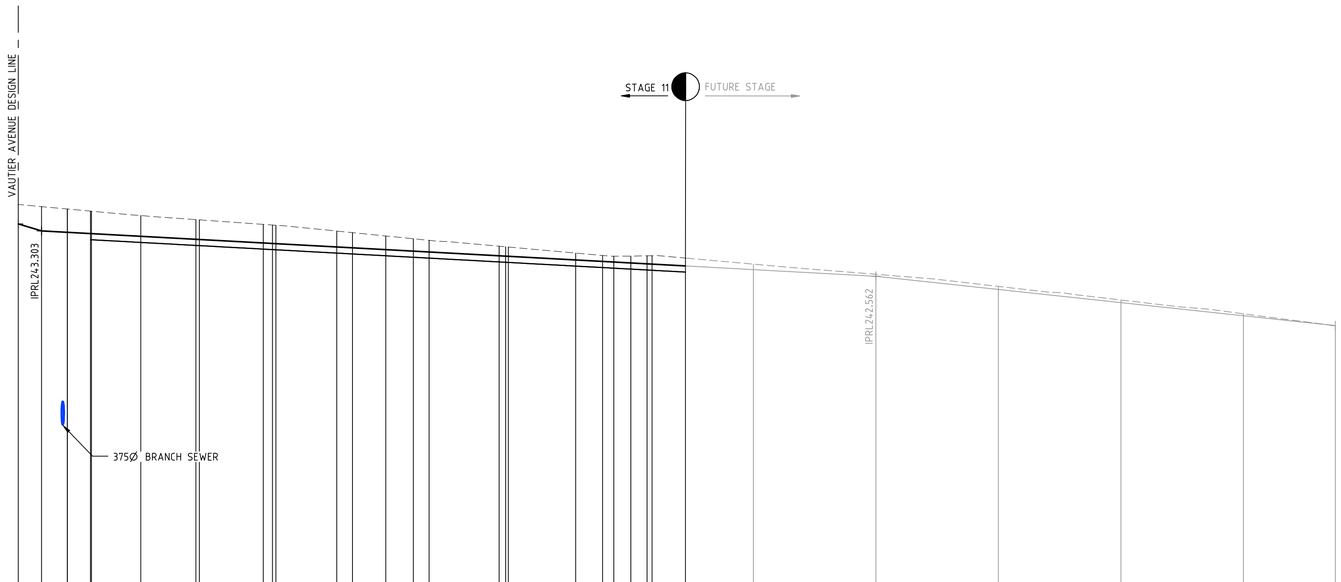

DATUM RL236

CHAINAGE	DESIGN RIGHT KERB RL	DESIGN LEFT KERB RL	EXISTING SURFACE RL	DESIGN SURFACE RL
0.00	243.158	243.158	243.736	243.417
3.80	243.114	243.114	243.699	243.303
8.00	243.065	243.065	243.660	243.280
8.03	243.062	243.062	243.660	243.280
11.79	243.006	243.006	243.626	243.249
11.95	242.997	242.997	243.626	243.259
20.00	242.942	242.942	243.556	243.215
29.00	242.872	242.872	243.487	243.166
29.56	242.858	242.858	243.483	243.163
40.00	242.786	242.786	243.409	243.106
41.76	242.780	242.780	243.399	243.099
42.46	242.778	242.778	243.395	243.095
52.00	242.940	242.940	243.300	243.041
54.56	242.926	242.926	243.274	243.027
60.00	242.897	242.897	243.220	242.997
64.50	242.872	242.872	243.175	242.973
67.06	242.858	242.858	243.149	242.959
78.50	242.786	242.786	243.053	242.897
79.95	242.780	242.780	243.041	242.891
80.00	242.778	242.778	243.040	242.888
91.00	242.728	242.728	242.941	242.829
95.38	242.704	242.704	242.902	242.805
97.22	242.694	242.694	242.889	242.795
100.00	242.679	242.679	242.891	242.780
102.65	242.665	242.665	242.896	242.765
103.46	242.660	242.660	242.898	242.761
108.91	242.631	242.631	242.859	242.731
120.00	242.760		242.671	
140.00	242.595		242.562	
160.00	242.397		242.347	
180.00	242.175		242.132	
200.00	241.949		241.917	
215.00	241.756		241.756	

ROCHESTER DRIVE

AS CONSTRUCTED

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Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541124
Verified B.GORDON
Date 17/03/15
AN 162136
Audited S.LEA
Date 27/11/15
AN 1062211
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884921

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
LONGITUDINAL SECTIONS
SHEET 03 OF 05
Drawing No. 11731LS03 Rev 1
Sheet No. 16 AS CONSTRUCTED

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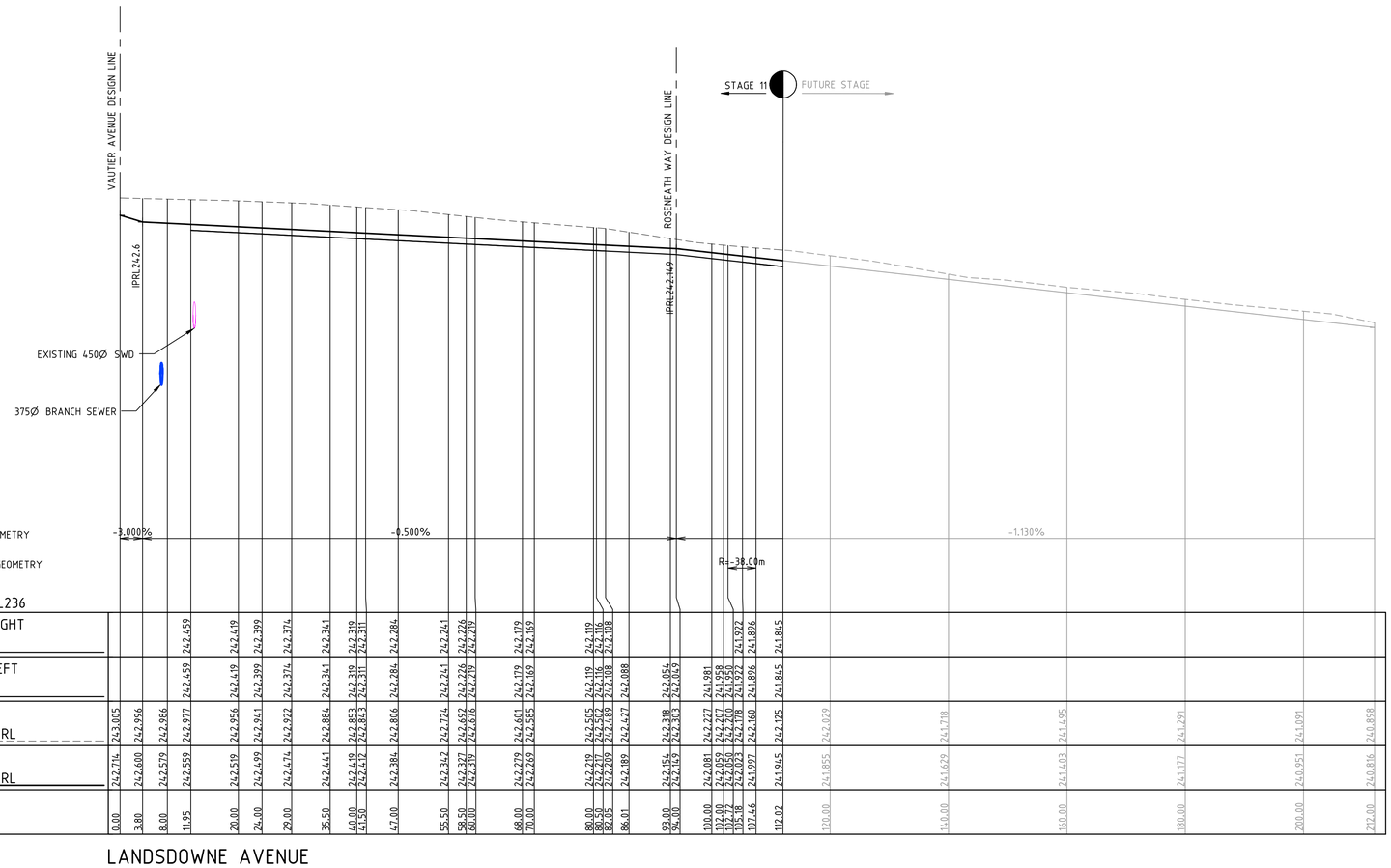

AS CONSTRUCTED

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\R0\11731LS01.dwg - 11731LS04
Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541125
Verified B.GORDON
Date 17/03/15
AN 162137
Audited S.LEA
Date 27/11/15
AN 1062212
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884922

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
LONGITUDINAL SECTIONS
SHEET 04 OF 05
Drawing No. 11731LS04 Rev 1
Sheet No. 17 AS CONSTRUCTED

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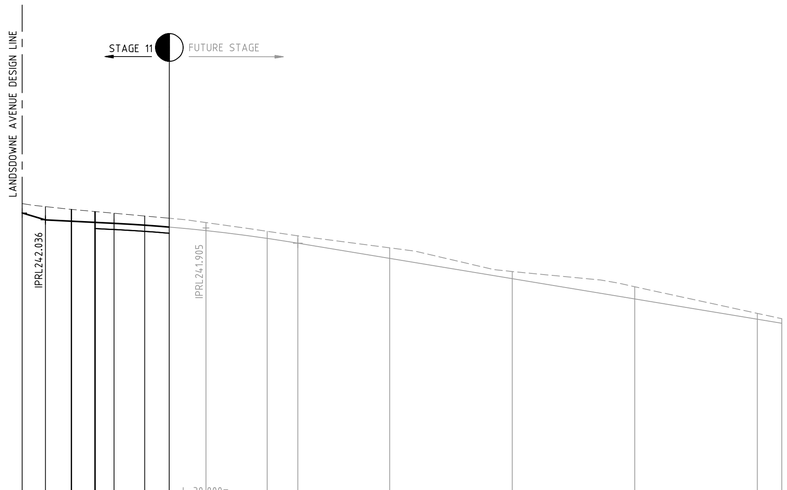
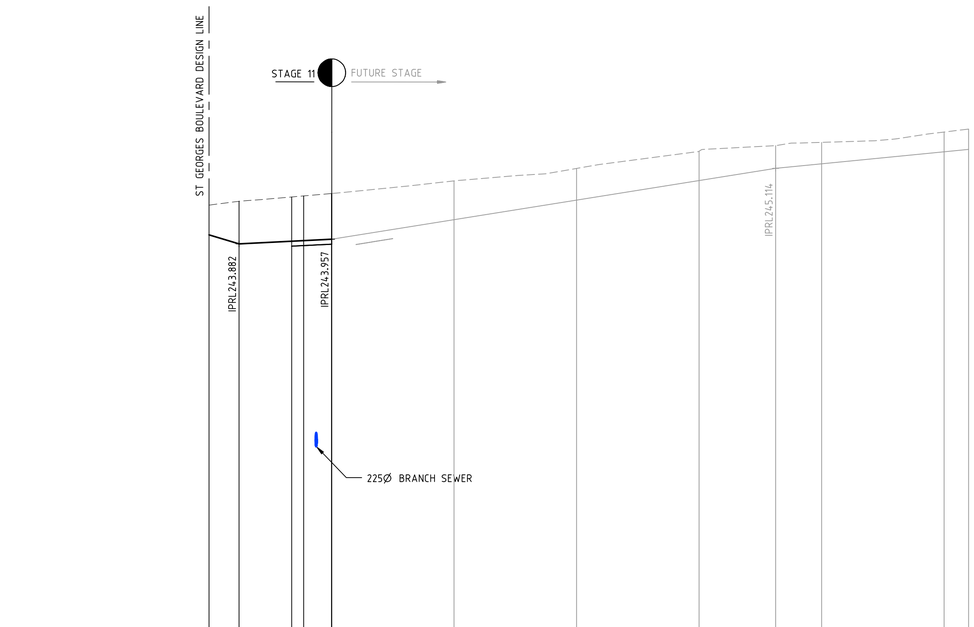


DATUM RL236

DESIGN RIGHT KERB RL					241.895	241.850	241.819																
					241.879																		
DESIGN LEFT KERB RL					241.895	241.850	241.819																
					241.879																		
EXISTING SURFACE RL	242.303	242.253	242.208	242.173	242.165	242.100	242.064	241.993	241.850	241.777	241.581	241.194	240.946	240.511	240.424
			242.207	242.172	242.165										
DESIGN SURFACE RL	242.150	242.036	242.015	241.996	241.980	241.950	241.919	241.862	241.735	241.657	241.409	241.078	240.747	240.416	240.350
			242.015	241.995	241.980										
CHAINAGE	0.00	3.80	8.00	11.85	15.00	20.00	24.00	30.00	40.00	45.00	60.00	80.00	100.00	120.00	124.00
			8.08	11.95	15.05										

ROSENEATH AVENUE



DATUM RL236

DESIGN RIGHT KERB RL			243.844	243.853	243.876	243.877									
DESIGN LEFT KERB RL			243.844	243.853	243.876	243.877									
EXISTING SURFACE RL	244.513	244.576	244.647	244.664	244.703	244.704	244.910	245.112	245.393	245.484	245.538	245.707	245.755
DESIGN SURFACE RL	244.029	243.882	243.925	243.934	243.957	243.958	244.276	244.596	244.915	245.114	245.188	245.384	245.423
CHAINAGE	0.00	4.90	13.50	15.45	20.00	20.04	40.00	60.00	80.00	92.50	100.00	120.00	124.00

CARLINGFORD ROAD

AS CONSTRUCTED

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\RD\
11731LS01.dwg - 11731LS05
Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

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Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541126
Verified B.GORDON
Date 17/03/15
AN 162138
Audited S.LEA
Date 27/11/15
AN 1062213
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884923

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
LONGITUDINAL SECTIONS
SHEET 05 OF 05
Drawing No. 11731LS05 Rev 1
Sheet No. 18 AS CONSTRUCTED

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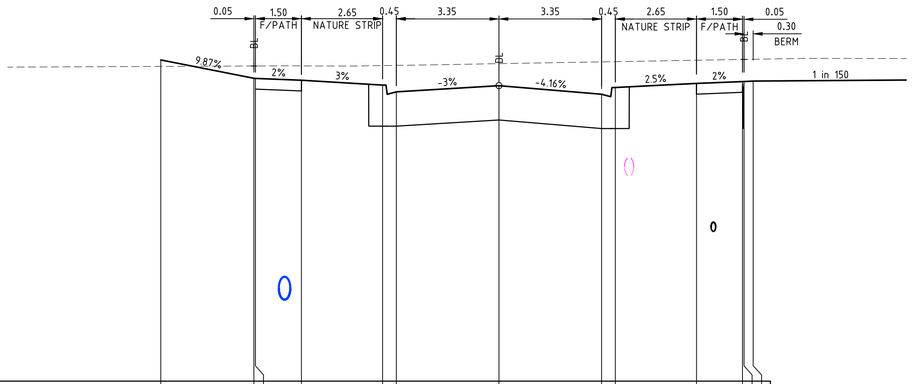
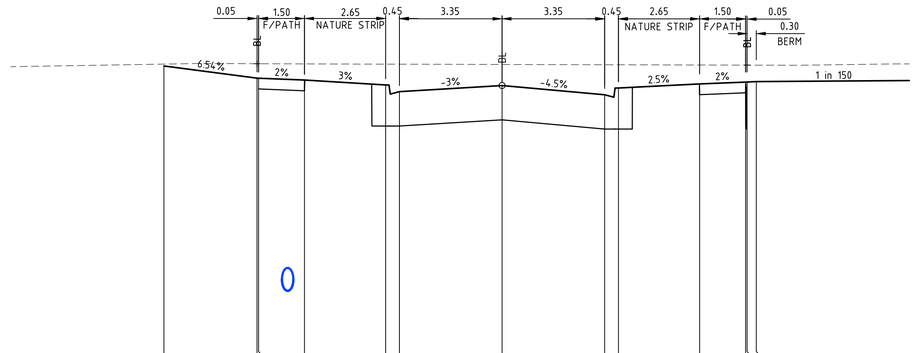


DATUM RL239.000

DESIGN SURFACE	244.242	243.942	243.941	243.911	243.831	243.721	243.822	243.682	243.792	243.858	243.888	243.889	243.897
EXISTING SURFACE	244.136	244.143	244.143	244.145	244.15	244.153	244.181	244.21	244.214	244.237	244.25	244.25	244.253
OFFSET	-11.040	-8.000	-7.950	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300

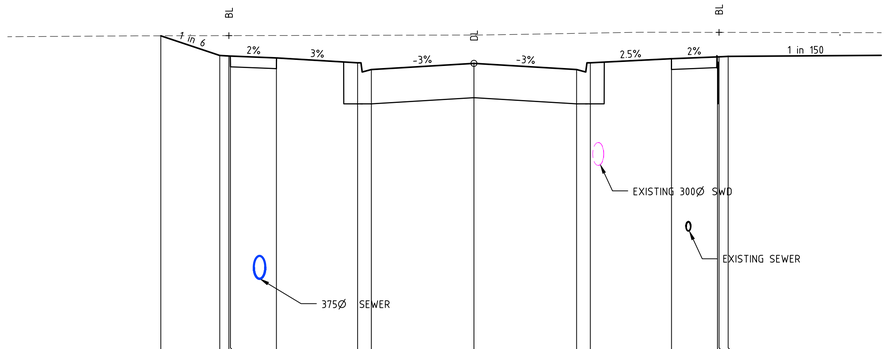
CH 26.250



DATUM RL239.000

DESIGN SURFACE	243.91	243.711	243.711	243.68	243.6	243.49	243.591	243.44	243.355	243.616	243.646	243.651	243.655
EXISTING SURFACE	243.94	243.946	243.946	243.943	243.939	243.939	243.934	243.93	243.929	243.925	243.923	243.923	243.923
OFFSET	-11.040	-8.000	-7.950	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300

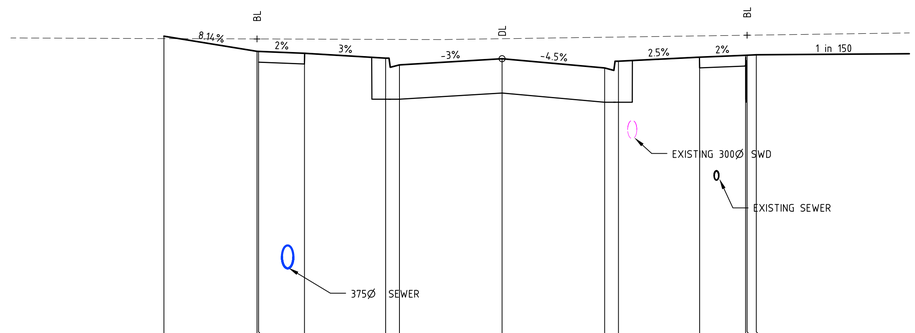
CH 51.250



DATUM RL239.000

DESIGN SURFACE	244.341	244.02	244.011	244.01	243.98	243.9	243.79	243.891	243.79	243.9	243.967	243.997	243.998	244.003
EXISTING SURFACE	244.341	244.344	244.344	244.344	244.346	244.349	244.35	244.354	244.381	244.385	244.398	244.397	244.397	244.397
OFFSET	-10.224	-8.300	-8.000	-7.950	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300

CH 13.500



DATUM RL239.000

DESIGN SURFACE	244.074	243.827	243.825	243.795	243.716	243.606	243.706	243.555	243.665	243.732	243.763	243.763	243.773
EXISTING SURFACE	244.035	244.029	244.029	244.026	244.021	244.02	244.033	244.056	244.06	244.078	244.089	244.092	244.092
OFFSET	-11.040	-8.000	-7.950	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300

CH 38.750

VAUTIER AVENUE

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\R0\
11731XS01.dwg - 11731XS01
Date/Time: Fri May 20, 2016 - 9:23am ---Robert.Young---

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

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Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541127
Verified B.GORDON
Date 17/03/15
AN 162139
Audited S.LEA
Date 27/11/15
AN 1062214
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884924

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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
CROSS SECTIONS
SHEET 01 OF 10
Drawing No. 11731XS01 Rev 1
Sheet No. 19 AS CONSTRUCTED

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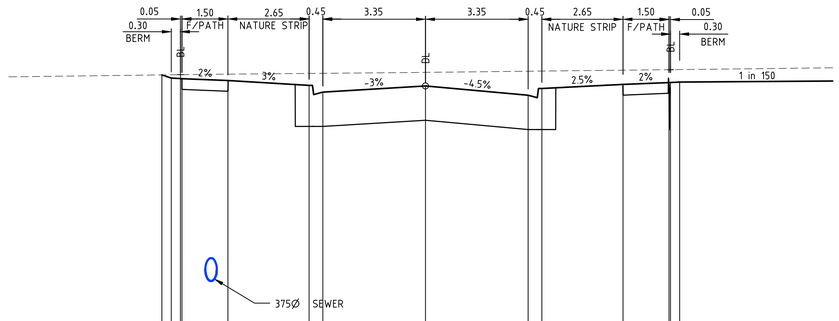
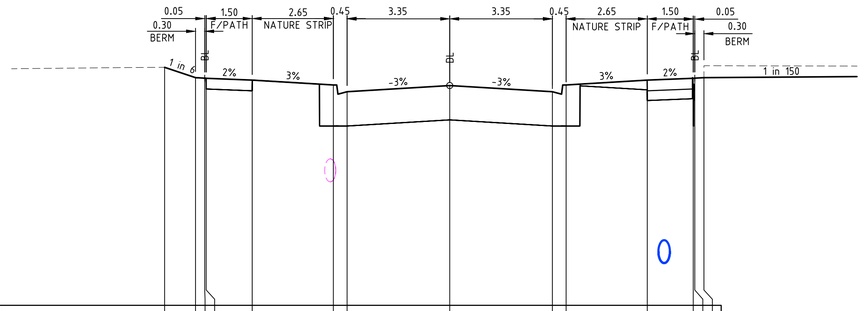


DATUM RL239.000

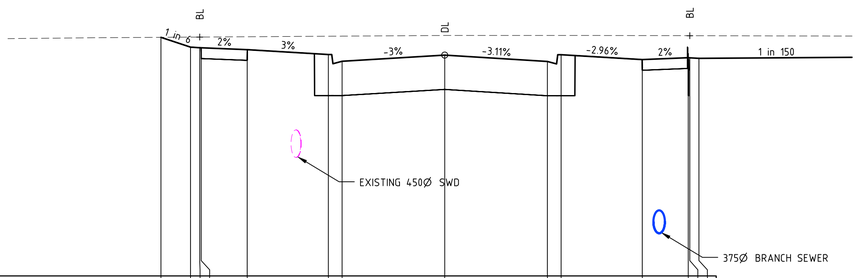
| | | |



DATUM RL239.000

DESIGN SURFACE	242.885	242.716	242.709	242.706	242.676	242.596	242.586	242.587	242.586	242.596	242.676	242.706	242.709	242.716
EXISTING SURFACE	242.885	242.716	242.709	242.706	242.676	242.596	242.586	242.587	242.586	242.596	242.676	242.706	242.709	242.716
OFFSET	-9.310	-8.300	-7.950	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300

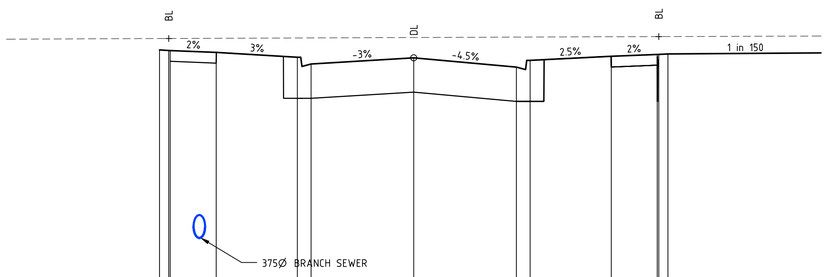
CH 159.897



DATUM RL239.000

DESIGN SURFACE	242.894	242.734	242.727	242.723	242.693	242.614	242.504	242.604	242.5	242.61	242.531	242.561	242.556	242.551
EXISTING SURFACE	242.894	242.898	242.899	242.899	242.904	242.912	242.914	242.924	242.925	242.925	242.923	242.921	242.921	242.921
OFFSET	-9.265	-8.300	-7.950	-7.900	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300

CH 158.032

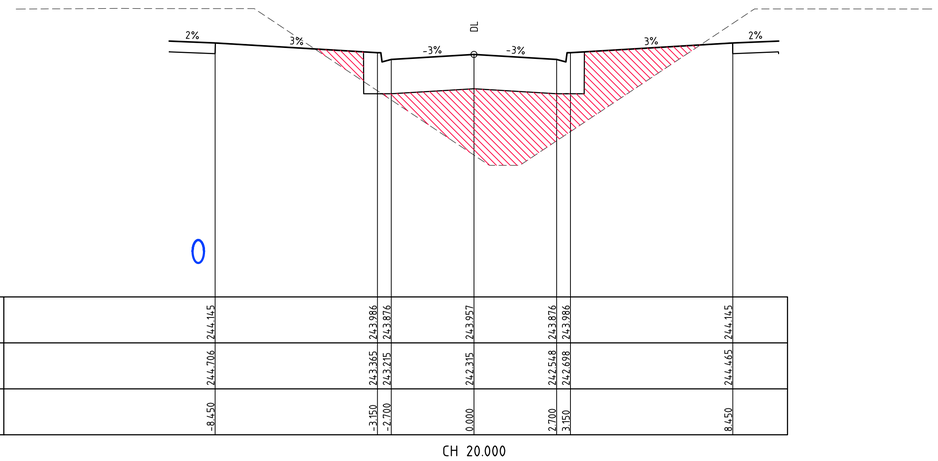


DATUM RL239.000

DESIGN SURFACE	242.954	242.815	242.744	242.914	242.834	242.774	242.825	242.674	242.784	242.85	242.88	242.882	242.889
EXISTING SURFACE	243.114	243.141	243.141	243.144	243.149	243.15	243.157	243.164	243.165	243.17	243.172	243.172	243.172
OFFSET	-8.300	-7.950	-7.900	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300

CH 134.132

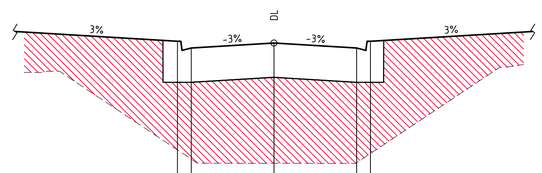
VAUTIER AVENUE



DATUM RL240.000

DESIGN SURFACE	244.145	243.986	243.876	243.957	243.876	243.986	244.145
EXISTING SURFACE	244.706	243.365	243.215	242.315	242.548	242.698	244.465
OFFSET	-8.450	-3.150	-2.700	0.000	2.700	3.150	8.450

CH 20.000



DATUM RL241.000

DESIGN SURFACE	243.954	243.844	243.925	243.844	243.954
EXISTING SURFACE	242.181	242.031	241.962	241.971	242.121
OFFSET	-3.150	-2.700	0.000	2.700	3.150

CH 13.500

CARLINGFORD ROAD

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\PD\
11731XS01.dwg - 11731XS03
Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541130
Verified B.GORDON
Date 17/03/15
AN 162141
Audited S.LEA
Date 27/11/15
AN 1062216
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884926

AS CONSTRUCTED

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 11731TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.

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 11
CROSS SECTIONS
SHEET 03 OF 10
Drawing No. 11731XS03 Rev 1
Sheet No. 21 AS CONSTRUCTED

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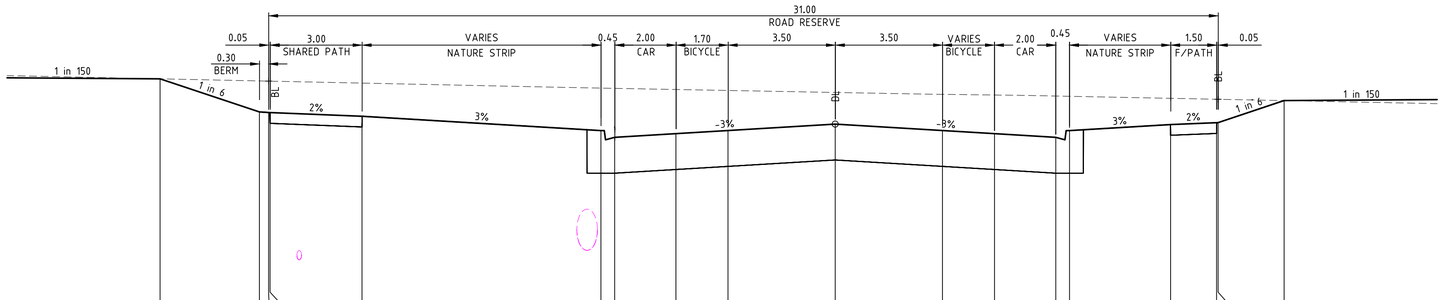
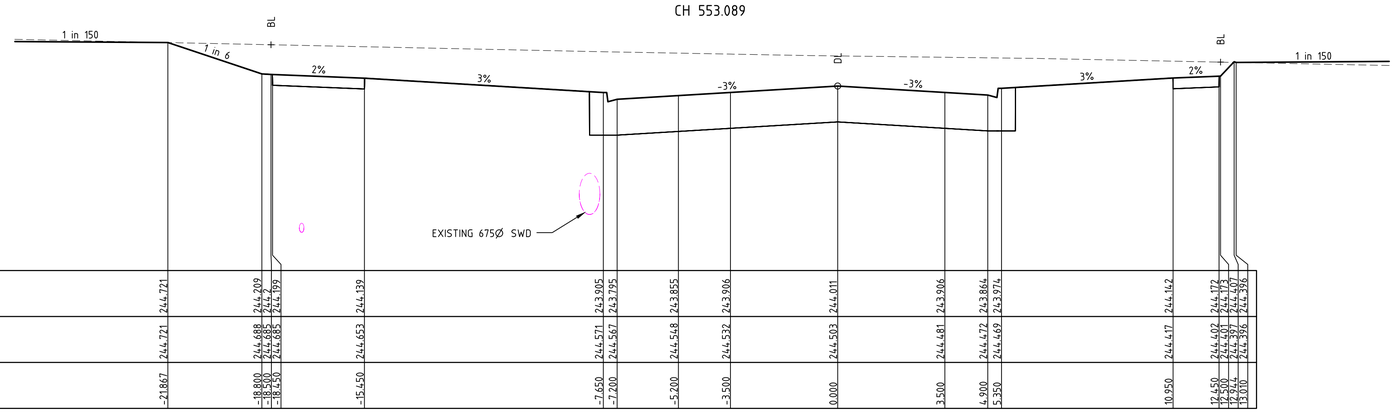


DATUM RL241.000

DESIGN SURFACE	244.732	244.191	244.182	244.181	244.121	243.887	243.777	243.837	243.888	243.993	243.888	243.837	243.777	243.887	243.986	244.016	244.007	244.377
EXISTING SURFACE	244.732	244.697	244.694	244.694	244.682	244.58	244.576	244.558	244.542	244.509	244.478	244.468	244.451	244.447	244.414	244.399	244.398	244.377
OFFSET	-22.042	-18.800	-18.500	-18.450	-15.450	-7.650	-7.200	-5.200	-3.500	0.000	3.500	5.200	7.200	7.650	10.950	12.450	12.500	14.655

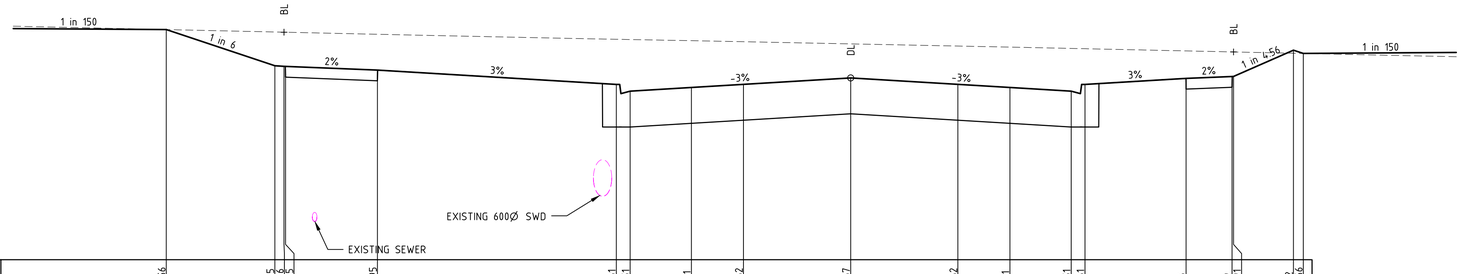
CH 553.089



DATUM RL241.000

DESIGN SURFACE	244.721	244.209	244.199	244.199	244.139	243.905	243.795	243.855	243.906	244.011	243.906	243.864	243.974	244.162	244.172	244.173	244.376	244.376
EXISTING SURFACE	244.721	244.688	244.687	244.685	244.653	244.571	244.567	244.548	244.532	244.503	244.481	244.472	244.469	244.417	244.407	244.397	244.396	244.396
OFFSET	-21.867	-18.800	-18.500	-18.450	-15.450	-7.650	-7.200	-5.200	-3.500	0.000	3.500	4.900	5.350	10.950	12.450	12.500	13.010	13.010

CH 556.713



DATUM RL241.000

DESIGN SURFACE	244.756	244.185	244.175	244.155	244.095	243.861	243.751	243.811	243.862	243.867	243.862	243.811	243.751	243.861	243.96	243.99	243.991	244.42	244.366
EXISTING SURFACE	244.756	244.716	244.713	244.712	244.679	244.597	244.593	244.575	244.558	244.522	244.487	244.47	244.448	244.443	244.408	244.391	244.391	244.37	244.366
OFFSET	-22.344	-18.800	-18.500	-18.450	-15.450	-7.650	-7.200	-5.200	-3.500	0.000	3.500	5.200	7.200	7.650	10.950	12.450	12.500	14.455	14.716

CH 546.663

ST. GEORGES BOULEVARD

AS CONSTRUCTED

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11731XS01.dwg - 11731XS04
Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541131
Verified B.GORDON
Date 17/03/15
AN 162142
Audited S.LEA
Date 27/11/15
AN 1062217
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884927

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

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 11
CROSS SECTIONS
SHEET 04 OF 10
Drawing No. 11731XS04 Rev 1
Sheet No. 22 AS CONSTRUCTED

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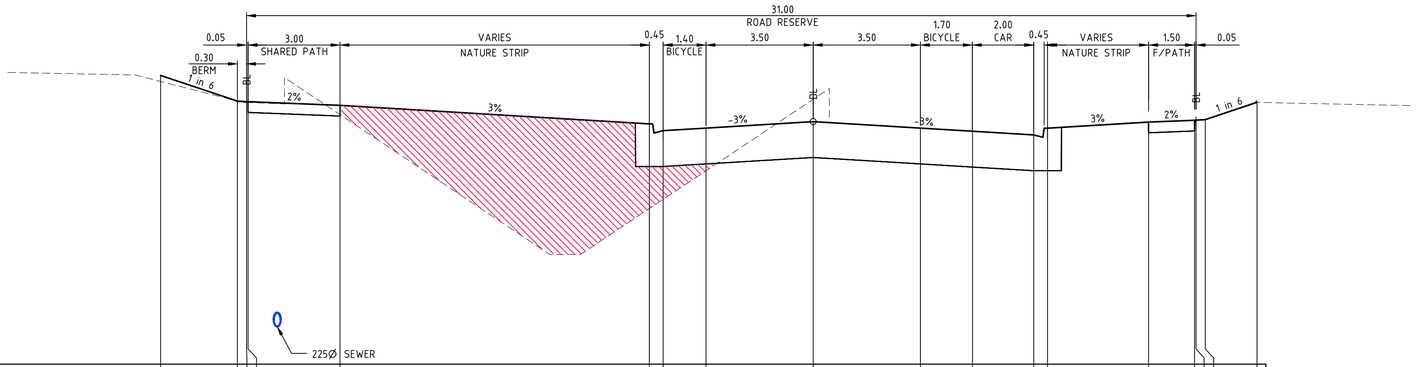
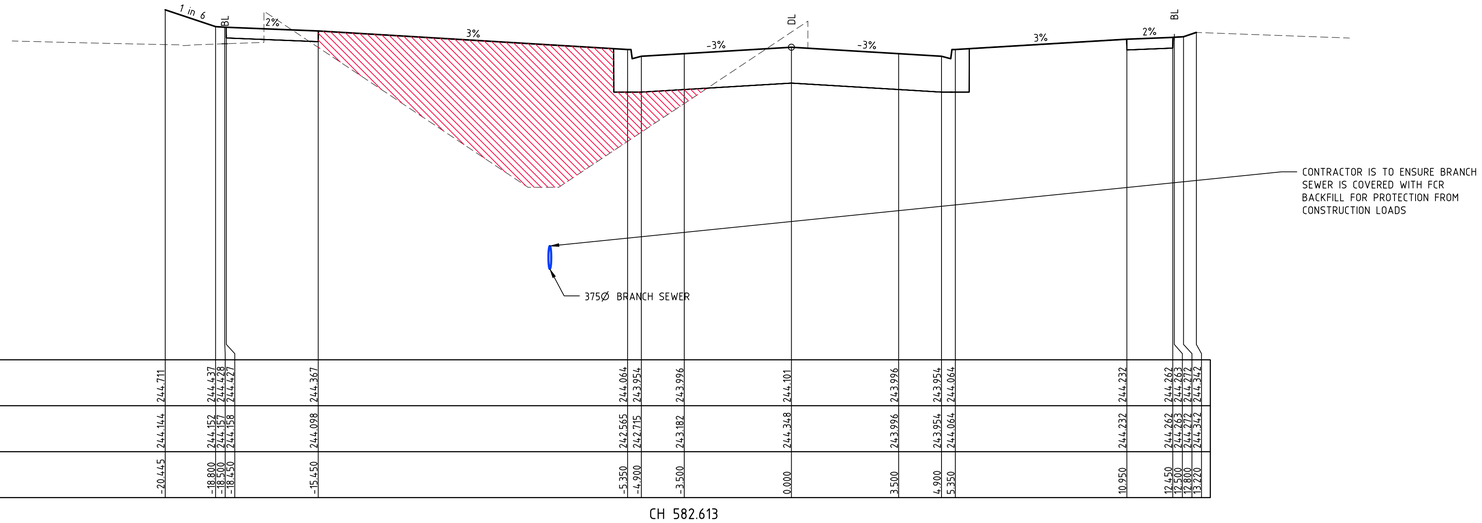


DATUM RL240.000

DESIGN SURFACE	244.712	244.286	244.285	244.284	244.224	243.921	243.811	243.853	243.958	243.853	243.802	243.742	243.852	243.951	243.981	243.982	243.991	244.273
EXISTING SURFACE	244.614	244.281	244.272	244.271	244.073	242.54	242.69	243.156	244.323	243.853	243.802	243.742	243.852	243.951	243.981	243.982	243.991	244.273
OFFSET	-21.306	-18.800	-18.500	-18.450	-15.450	-5.350	-4.900	-3.500	0.000	3.500	5.200	7.200	7.650	10.950	12.450	12.500	12.800	14.489

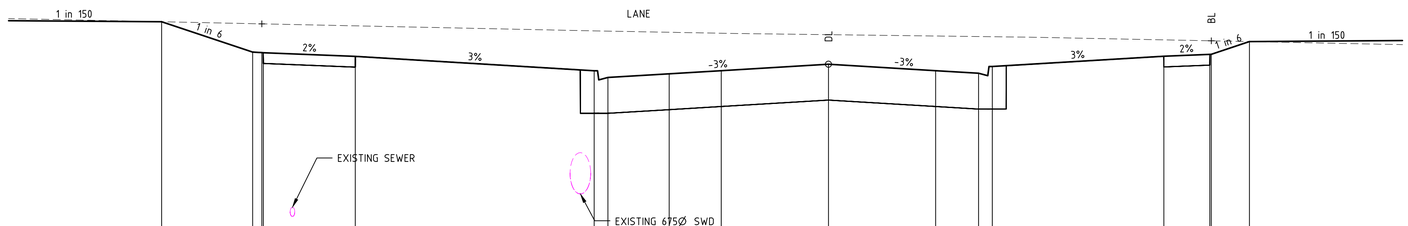
CH 605.352



DATUM RL239.000

DESIGN SURFACE	244.711	244.437	244.434	244.267	244.367	244.064	243.954	243.996	244.101	243.996	243.954	244.064	244.232	244.262	244.263	244.263	244.262	244.342
EXISTING SURFACE	244.144	244.152	244.151	244.158	244.098	242.565	242.715	243.182	244.348	243.996	243.954	244.064	244.232	244.262	244.263	244.263	244.262	244.342
OFFSET	-20.445	-18.800	-18.500	-18.450	-15.450	-5.350	-4.900	-3.500	0.000	3.500	4.900	5.350	10.950	12.450	12.500	12.800	13.200	13.744

CH 582.613



DATUM RL241.000

DESIGN SURFACE	244.715	244.219	244.217	244.203	244.169	243.915	243.805	243.865	243.916	244.021	243.916	243.874	243.884	244.152	244.182	244.183	244.391	
EXISTING SURFACE	244.715	244.483	244.482	244.479	244.648	244.565	244.561	244.543	244.527	244.504	244.482	244.473	244.47	244.419	244.404	244.403	244.391	
OFFSET	-21.771	-18.800	-18.500	-18.450	-15.450	-7.650	-7.200	-5.200	-3.500	0.000	3.500	4.900	5.350	10.950	12.450	12.500	13.744	

CH 558.713

ST. GEORGES BOULEVARD

AS CONSTRUCTED

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\RD\
11731XS01.dwg - 11731XS05
Date/Time: Fri May 20, 2016 - 9:23am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541132
Verified B.GORDON
Date 17/03/15
AN 162143
Audited S.LEA
Date 27/11/15
AN 1062218
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884928

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 11731TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.

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 11
CROSS SECTIONS
SHEET 05 OF 10
Drawing No. 11731XS05 Rev 1
Sheet No. 23 AS CONSTRUCTED

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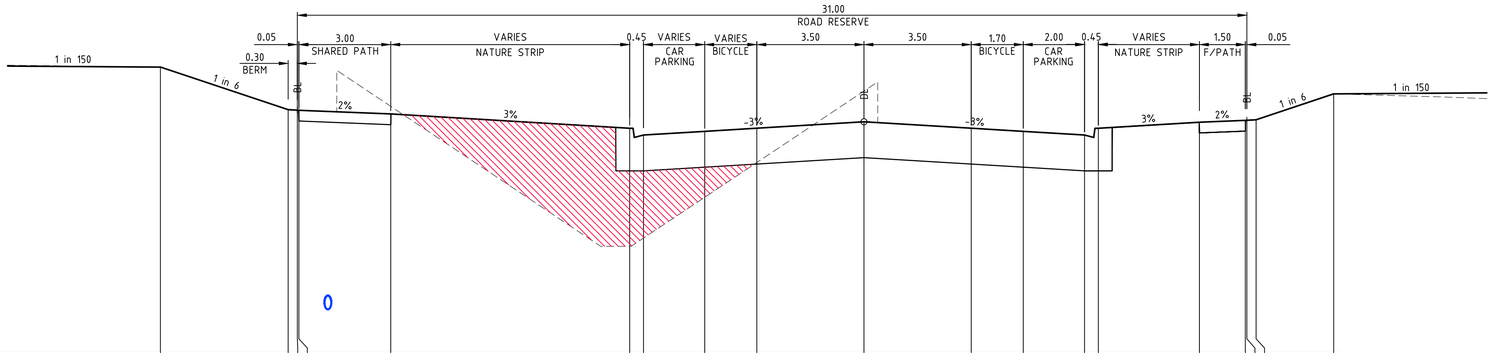
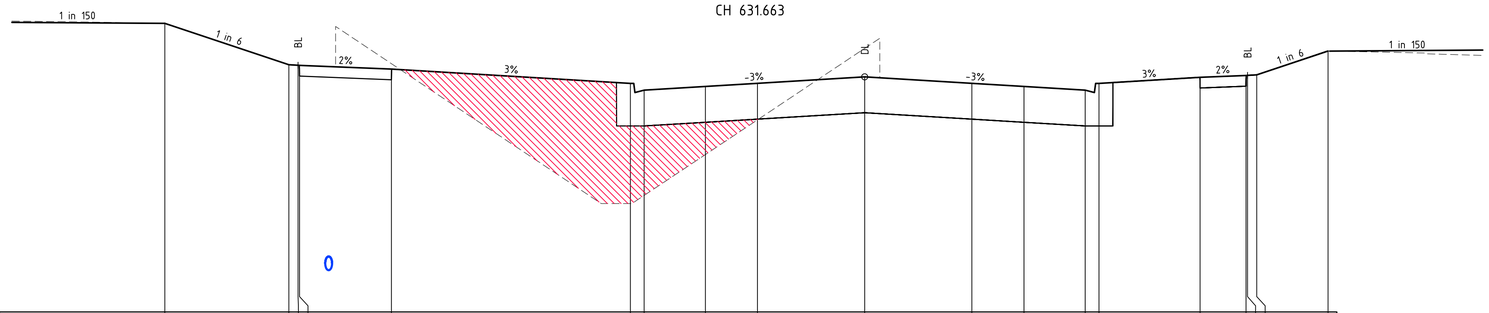


DATUM RL240.000

DESIGN SURFACE	244.686	243.399	243.391	243.388	243.92	243.686	243.576	243.636	243.687	243.792	243.687	243.636	243.576	243.686	243.785	243.815	243.816	243.825	244.248
EXISTING SURFACE	244.686	243.399	243.391	243.388	244.044	241.176	241.894	242.256	243.127	244.294	243.687	243.636	243.576	243.686	243.785	243.815	243.816	243.825	244.248
OFFSET	-22.971	-18.800	-18.500	-18.450	-15.450	-7.650	-7.200	-5.200	-3.500	0.000	3.500	5.200	7.200	7.650	10.950	12.450	12.500	12.800	15.333

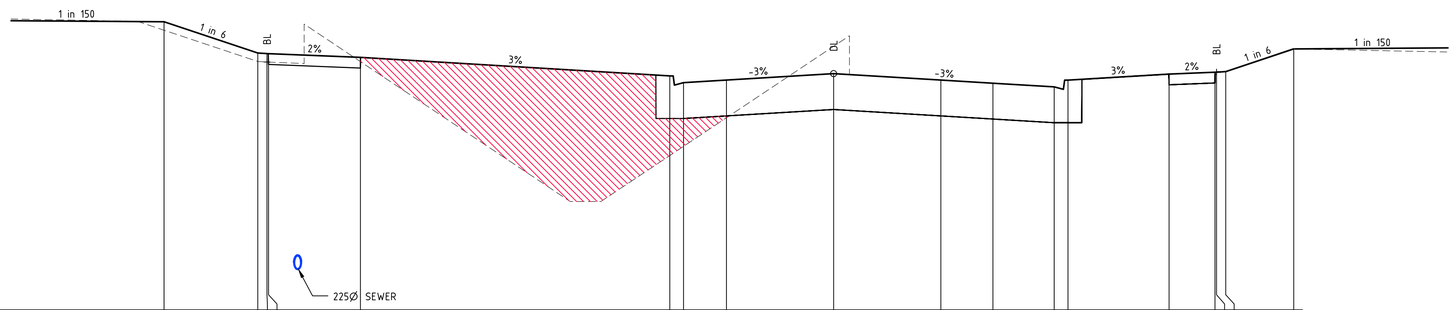
CH 631.663



DATUM RL240.000

DESIGN SURFACE	244.709	244.034	244.026	244.022	243.964	243.73	243.62	243.68	243.731	243.836	243.731	243.68	243.62	243.73	243.829	243.859	243.86	243.869	244.257
EXISTING SURFACE	244.709	244.034	244.026	244.022	244.052	241.768	241.902	242.568	243.135	244.302	243.731	243.68	243.62	243.73	243.829	243.859	243.86	243.869	244.257
OFFSET	-22.848	-18.800	-18.500	-18.450	-15.450	-7.650	-7.200	-5.200	-3.500	0.000	3.500	5.200	7.200	7.650	10.950	12.450	12.500	12.800	15.128

CH 624.673



DATUM RL240.000

DESIGN SURFACE	244.705	244.195	244.187	244.185	244.125	243.822	243.712	243.754	243.859	243.754	243.703	243.643	243.753	243.852	243.882	243.883	243.892	244.262
EXISTING SURFACE	244.567	244.057	244.047	244.047	244.056	242.522	242.672	243.139	244.306	243.754	243.703	243.643	243.753	243.852	243.882	243.883	243.892	244.262
OFFSET	-21.861	-18.800	-18.500	-18.450	-15.450	-5.350	-4.900	-3.500	0.000	3.500	5.200	7.200	7.650	10.950	12.450	12.500	12.800	15.021

CH 621.049

ST. GEORGES BOULEVARD

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541133
Verified B.GORDON
Date 17/03/15
AN 162144
Audited S.LEA
Date 27/11/15
AN 1062219
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884929

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 11731TD01 NOTES, WITH LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007.

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 11
CROSS SECTIONS
SHEET 06 OF 10
Drawing No. 11731XS06 Rev 1
Sheet No. 24 AS CONSTRUCTED

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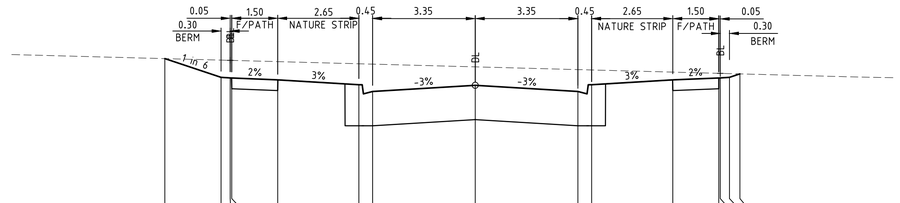

DATUM RL241.000

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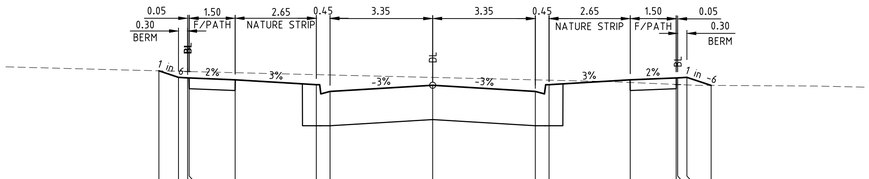
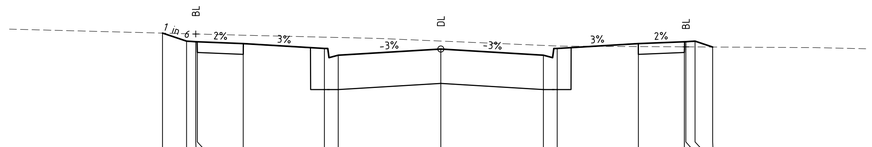


DATUM RL241.000

DESIGN SURFACE	242.967	242.861	242.862	242.865	242.82	242.741	242.631	242.731	242.631	242.741	242.82	242.85	242.852	242.861	242.729
EXISTING SURFACE	242.967	242.959	242.956	242.955	242.936	242.904	242.839	242.859	242.819	242.814	242.776	242.714	242.743	242.737	242.729
OFFSET	-8.939	-8.300	-8.000	-7.950	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300	9.091

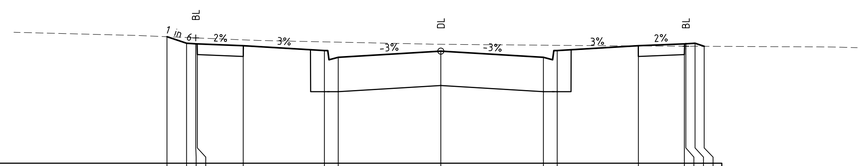
CH 108.911



DATUM RL241.000

DESIGN SURFACE	243.026	242.895	242.886	242.884	242.854	242.775	242.665	242.765	242.665	242.775	242.854	242.884	242.886	242.895	242.799
EXISTING SURFACE	243.026	243.015	243.012	243.011	242.991	242.96	242.954	242.896	242.825	242.815	242.806	242.801	242.801	242.8	242.799
OFFSET	-9.086	-8.300	-8.000	-7.950	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300	8.816

CH 102.647



DATUM RL241.000

DESIGN SURFACE	243.065	242.958	242.949	242.948	242.918	242.838	242.728	242.829	242.728	242.838	242.918	242.948	242.949	242.958	242.908
EXISTING SURFACE	243.065	243.052	243.045	243.044	243.016	242.98	242.976	242.941	242.926	242.924	242.914	242.91	242.909	242.908	242.908
OFFSET	-8.940	-8.300	-8.000	-7.950	-6.450	-3.800	-3.350	0.000	3.350	3.800	6.450	7.950	8.000	8.300	8.599

CH 91.000

ROCHESTER DRIVE

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\R0\
11731XS01.dwg - 11731XS08
Date/Time: Fri May 20, 2016 - 9:24am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541136
Verified B.GORDON
Date 17/03/15
AN 162146
Audited S.LEA
Date 27/11/15
AN 1062221
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884931

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
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 11
CROSS SECTIONS
SHEET 08 OF 10
Drawing No. 11731XS08 Rev 1
Sheet No. 26 AS CONSTRUCTED

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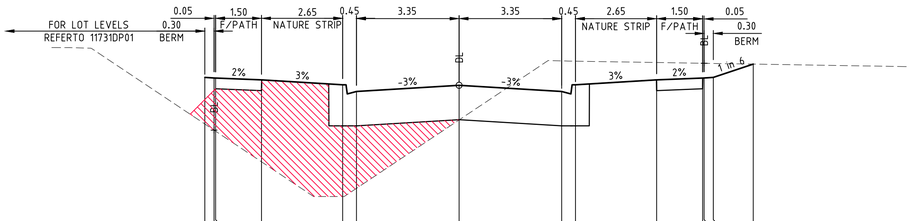

DATUM RL240.000

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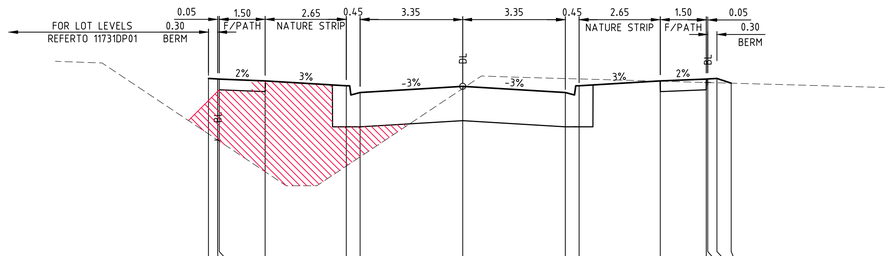

DATUM RL239.000

| | | |

FOR CONTINUATION REFER TO PAGE 30

OPEN EARTH DRAIN 1

OPEN EARTH DRAIN GRADED TO MATCH STAGE 10 INVERT LEVEL

INSERT

OPEN EARTH DRAIN 2

OPEN EARTH DRAIN 3

OPEN EARTH DRAIN 4

OPEN EARTH DRAIN 5

OPEN EARTH DRAIN 6

CONTRACTOR TO RESHAPE EXISTING STAGE 9 OPEN EARTH DRAIN. REFER TO SHEET 30.

CONTRACTOR TO RE-GRADE EXISTING STAGE 7 OPEN EARTH DRAIN. REFER TO SHEET 32.

CONTRACTOR TO RESHAPE EXISTING STAGE 7 OPEN EARTH DRAIN. REFER TO SHEET 31.

EXISTING STAGE 15 OPEN EARTH DRAIN

FUTURE DEVELPOMENT

ROSENEATH WAY

ROCHESTER DRIVE

LANDSDOWNE AVENUE

EXISTING STAGE 10

VAUTIER AVENUE

CARLINGFORD ROAD

ST. GEORGES BOULEVARD

FOR CONTINATION REFER TO INSERT

AS CONSTRUCTED

EXISTING OPEN EARTH DRAIN TO BE FILLED COMPACTED TO LEVEL 1

Drawing File: G:\Designdata\11700\11731-MERRIFIELD - Precinct 1 - Stage 11\Acad\80\11731OED01.dwg - 11731OED01
Date/Time: Fri May 20, 2016 - 9:24am --Robert.Young--

REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
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Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541139
Verified B.GORDON
Date 17/03/15
AN 162148
Audited S.LEA
Date 27/11/15
AN 1062224
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884934

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
- V — EXISTING ELEC. POLE & O'HEAD LINES
- EXISTING STORMWATER DRAIN & PIT
- CONSTRUCTED PRE DEVELOPMENT
- ES20.06 EXISTING SURFACE LEVEL
- FS21.650 FINISHED SURFACE LEVEL
- POST AND WIRE FENCE
- LIMIT OF WORKS
- S — BRANCH SEWER MAIN AND MANHOLE
- 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
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- TC — TELECOMM. CONDUIT
- OF — OPTIC FIBRE
- W — WATER
- RW — RECYCLED WATER
- T — TELECOMMUNICATIONS
- E — ELECTRICITY
- G — GAS
- STREET NAME SIGN
- REGRADE LOT AT MIN 1 IN 150

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 11
OPEN EARTH DRAIN PLAN
SHEET 01 OF 04
Drawing No. 11731OED01 Rev 1

Sheet No. 29 AS CONSTRUCTED

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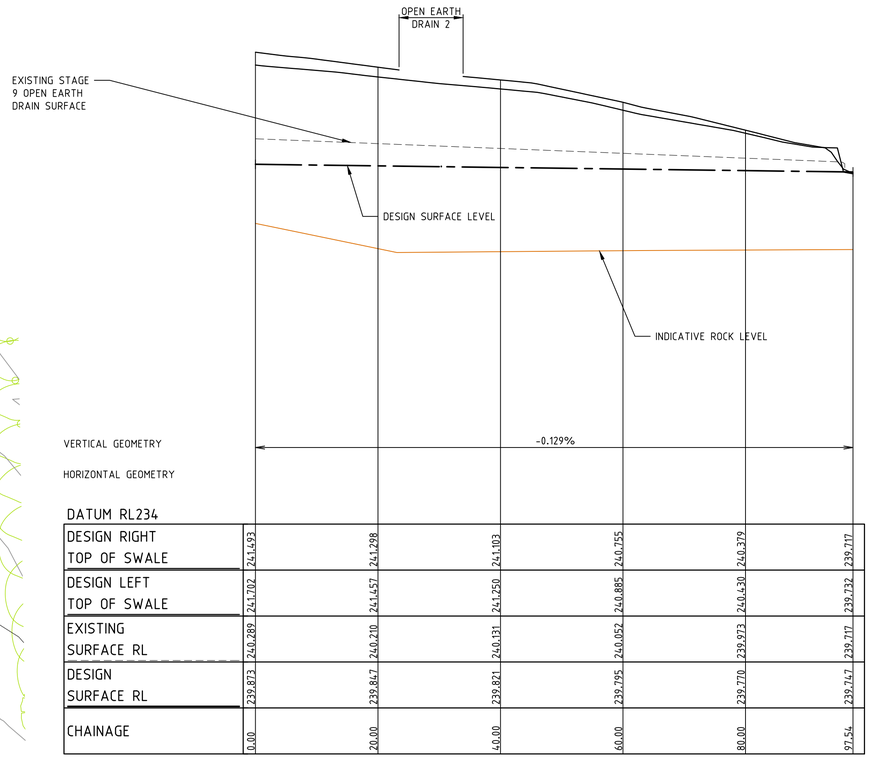
HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 4

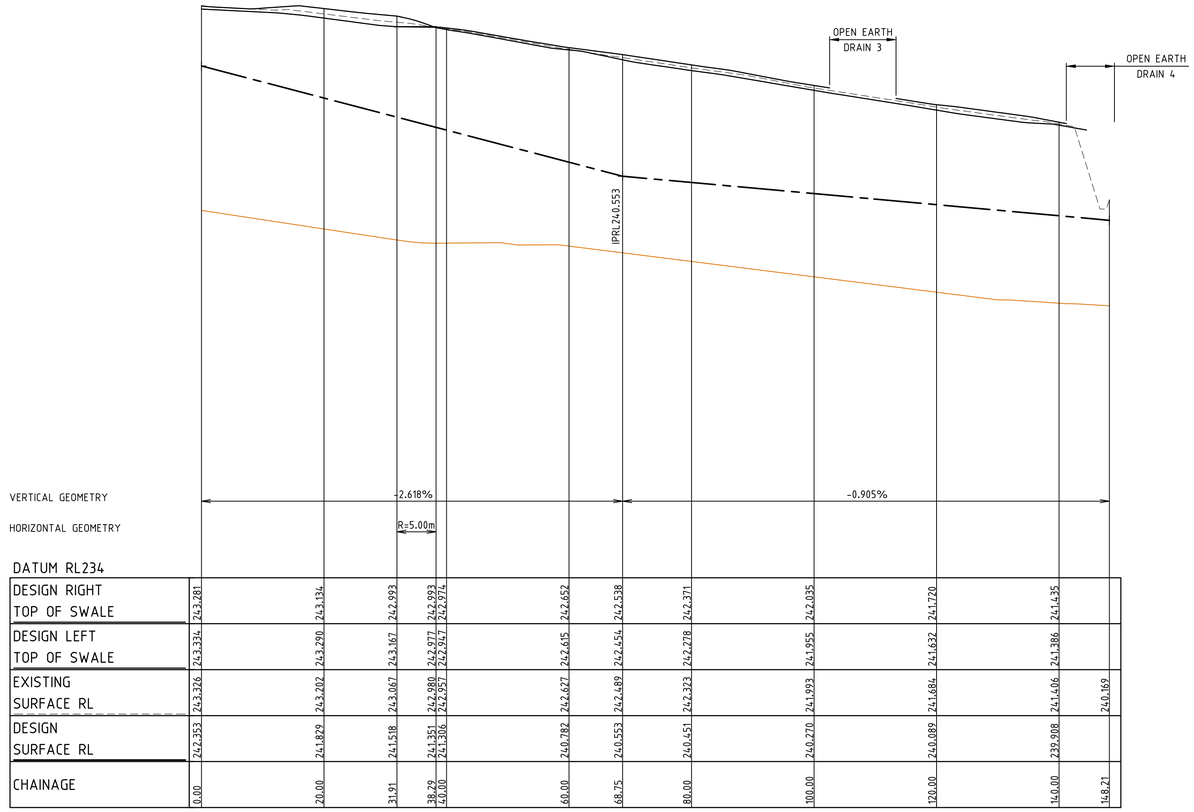
POINT TYPE	CHAINAGE	COORDINATES X	Y	Z	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315209.633	5844326.495	239.873	360°00'00.00"	
STRAIGHT	20.000	315209.633	5844346.495	239.847	360°00'00.00"	
STRAIGHT	40.000	315209.633	5844366.495	239.821	360°00'00.00"	
STRAIGHT	60.000	315209.633	5844386.495	239.795	360°00'00.00"	
STRAIGHT	80.000	315209.633	5844406.495	239.770	360°00'00.00"	
STRAIGHT (END ALN)	97.544	315209.633	5844424.039	239.747	360°00'00.00"	



DATUM RL234

DESIGN RIGHT TOP OF SWALE	241.493	241.298	241.103	240.755	240.379	239.717
DESIGN LEFT TOP OF SWALE	241.702	241.457	241.250	240.885	240.430	239.732
EXISTING SURFACE RL	240.289	240.210	240.131	240.052	239.973	239.717
DESIGN SURFACE RL	239.873	239.847	239.821	239.795	239.770	239.747
CHAINAGE	0.00	20.00	40.00	60.00	80.00	97.54

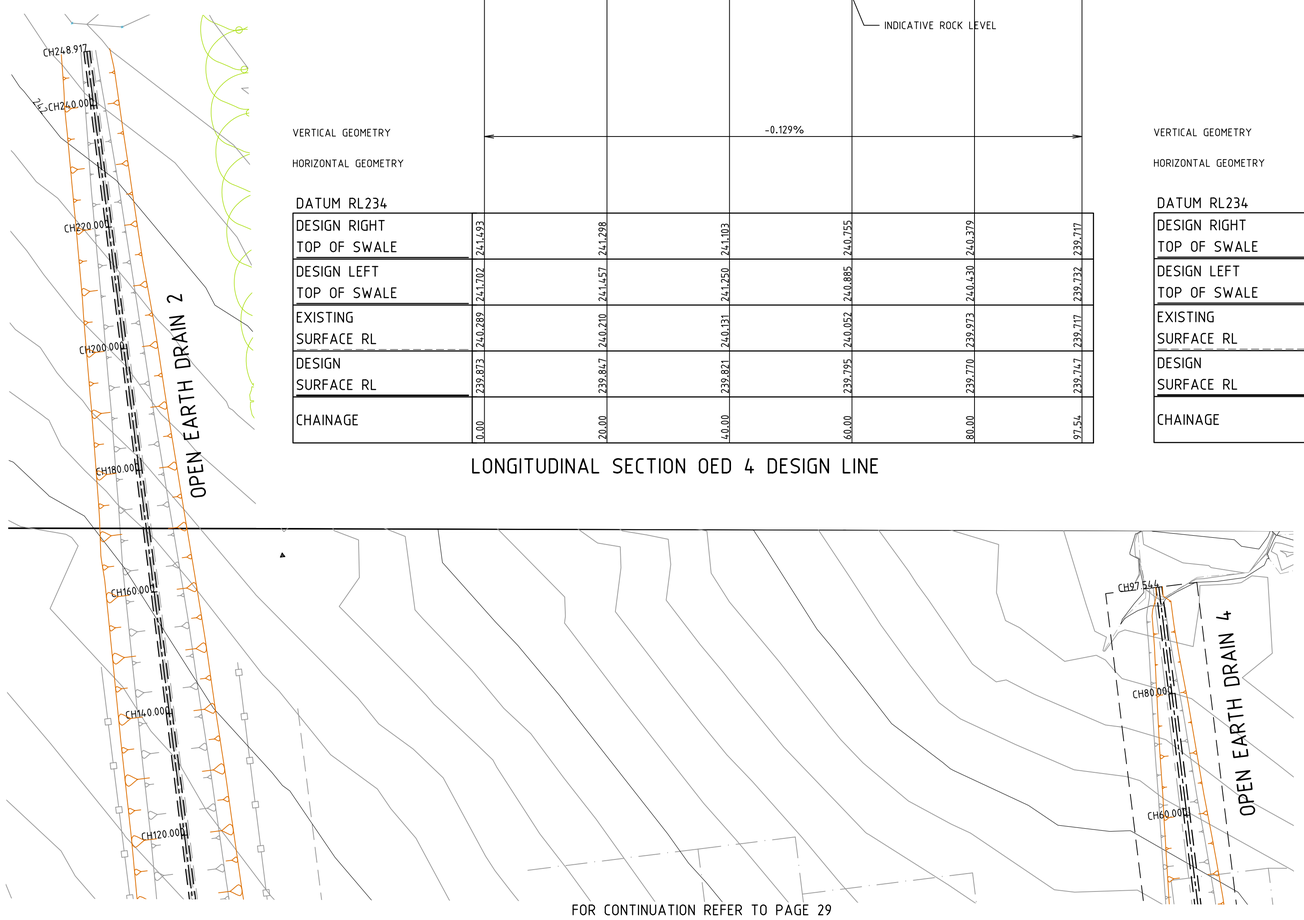
LONGITUDINAL SECTION OED 4 DESIGN LINE



DATUM RL234

DESIGN RIGHT TOP OF SWALE	243.281	243.134	242.993	242.993	242.974	242.652	242.538	242.371	242.035	241.720	241.435	
DESIGN LEFT TOP OF SWALE	243.334	243.290	243.167	242.977	242.947	242.615	242.454	242.278	241.955	241.632	241.386	
EXISTING SURFACE RL	243.326	243.202	243.067	242.980	242.957	242.827	242.489	242.323	241.993	241.684	241.406	240.169
DESIGN SURFACE RL	242.353	241.829	241.518	241.351	241.306	240.782	240.553	240.451	240.270	240.089	239.908	
CHAINAGE	0.00	20.00	31.91	38.29	40.00	60.00	68.75	80.00	100.00	120.00	140.00	148.21

LONGITUDINAL SECTION OED 2 DESIGN LINE



FOR CONTINUATION REFER TO PAGE 29

HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 2

POINT TYPE	CHAINAGE	COORDINATES X	Y	Z	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315100.931	5844288.217	242.353	359°57'27.25"	
STRAIGHT	20.000	315100.917	5844308.217	241.829	359°57'27.25"	
TANGENT-CURVE	31.905	315100.908	5844320.122	241.518	359°57'27.25"	
CURVE	32.000	315100.909	5844320.217	241.515	1°02'26.12"	5.000
CURVE	34.000	315101.339	5844322.157	241.463	23°57'32.04"	5.000
CURVE	36.000	315102.490	5844323.776	241.411	46°52'37.96"	5.000
CURVE	38.000	315104.181	5844324.818	241.358	69°47'43.88"	5.000
CURVE-TANGENT	38.290	315104.455	5844324.911	241.351	73°06'47.21"	5.000
STRAIGHT	40.000	315106.092	5844325.407	241.306	73°06'47.21"	
STRAIGHT	60.000	315125.230	5844331.217	240.782	73°06'47.21"	
STRAIGHT	80.000	315144.367	5844337.027	240.451	73°06'47.21"	
STRAIGHT	100.000	315163.505	5844342.836	240.270	73°06'47.21"	
STRAIGHT	120.000	315182.643	5844348.646	240.089	73°06'47.21"	
STRAIGHT	140.000	315201.780	5844354.456	239.908	73°06'47.21"	
STRAIGHT (END ALN)	148.207	315209.633	5844356.840	239.834	73°06'47.21"	

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REV	AMENDMENTS	DATE	APP'D.
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Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541140
Verified B.GORDON
Date 17/03/15
AN 162149
Audited S.LEA
Date 27/11/15
AN 1062225
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884935

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
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
OPEN EARTH DRAIN PLAN
SHEET 02 OF 04
Drawing No. 11731OED02 Rev 1
Sheet No. 30 AS CONSTRUCTED

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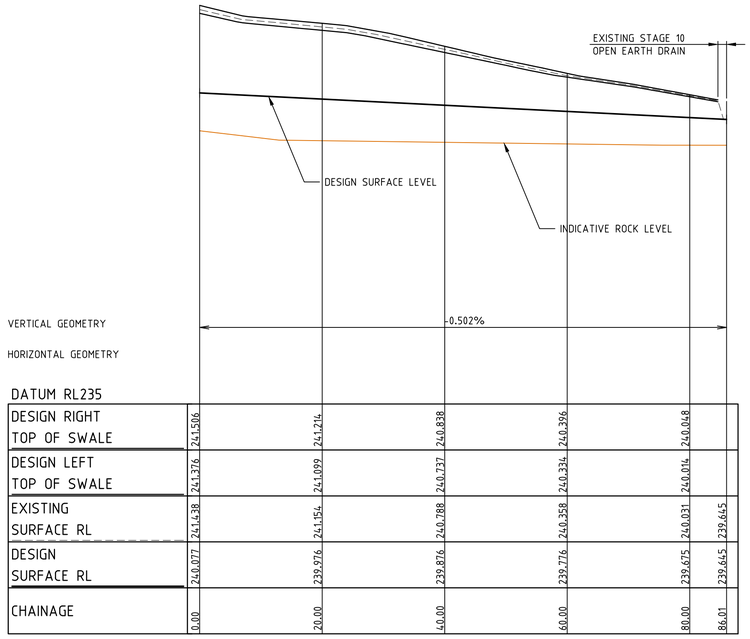


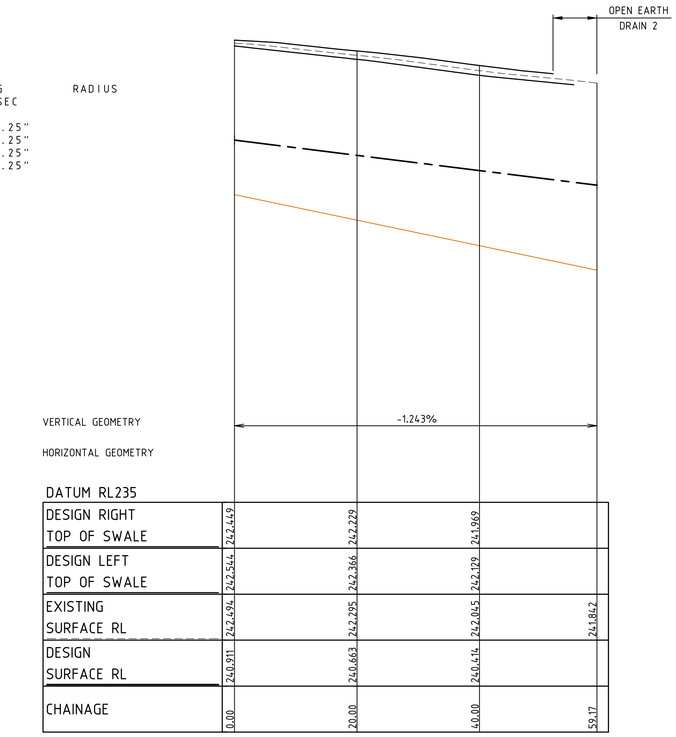
LONGITUDINAL SECTION OED 1 DESIGN LINE

HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 1

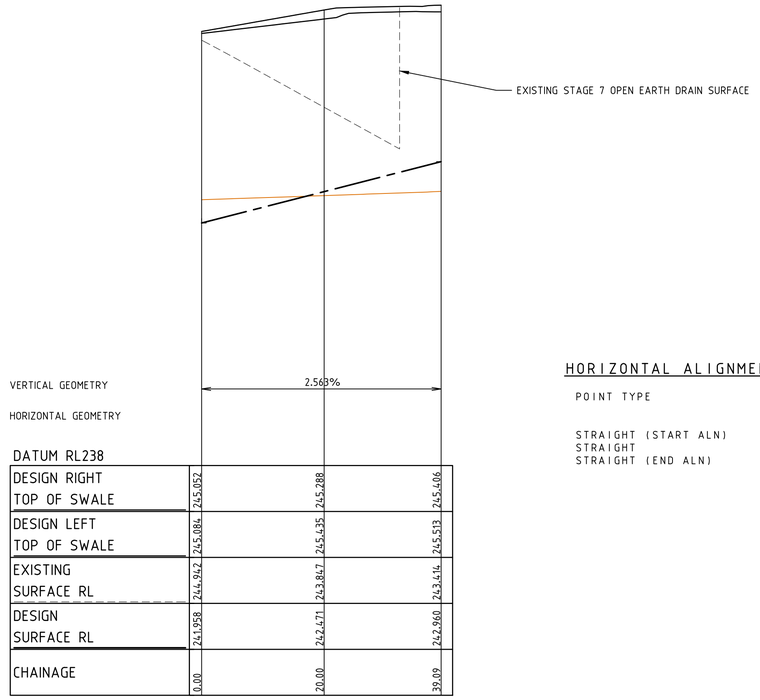
POINT TYPE	CHAINAGE	COORDINATES X	Y	Z	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315282.026	5844249.206	240.077	97°03'10.00"	
STRAIGHT	20.000	315301.874	5844246.750	239.976	97°03'10.00"	
STRAIGHT	40.000	315321.723	5844244.295	239.876	97°03'10.00"	
STRAIGHT	60.000	315341.572	5844241.839	239.776	97°03'10.00"	
STRAIGHT	80.000	315361.420	5844239.383	239.675	97°03'10.00"	
STRAIGHT (END ALN)	86.015	315367.389	5844238.645	239.645	97°03'10.00"	

HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 3

POINT TYPE	CHAINAGE	COORDINATES X	Y	Z	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315172.934	5844286.514	240.911	359°57'27.25"	
STRAIGHT	20.000	315172.920	5844306.514	240.663	359°57'27.25"	
STRAIGHT	40.000	315172.905	5844326.514	240.414	359°57'27.25"	
STRAIGHT (END ALN)	59.172	315172.891	5844345.686	240.176	359°57'27.25"	



LONGITUDINAL SECTION OED 3 DESIGN LINE



LONGITUDINAL SECTION OED 6 DESIGN LINE

HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 6

POINT TYPE	CHAINAGE	COORDINATES X	Y	Z	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	314997.288	5844196.565	241.958	280°17'39.77"	
STRAIGHT	20.000	314977.610	5844200.139	242.471	280°17'39.77"	
STRAIGHT (END ALN)	39.090	314958.828	5844203.551	242.960	280°17'39.77"	

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11731OED01.dwg - 11731OED03
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AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541149
Verified B.GORDON
Date 17/03/15
AN 162148
Audited S.LEA
Date 27/11/15
AN 1062226
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884936

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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
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
OPEN EARTH DRAIN PLAN
SHEET 03 OF 04
Drawing No. 11731OED03 Rev 1
Sheet No. 31 AS CONSTRUCTED

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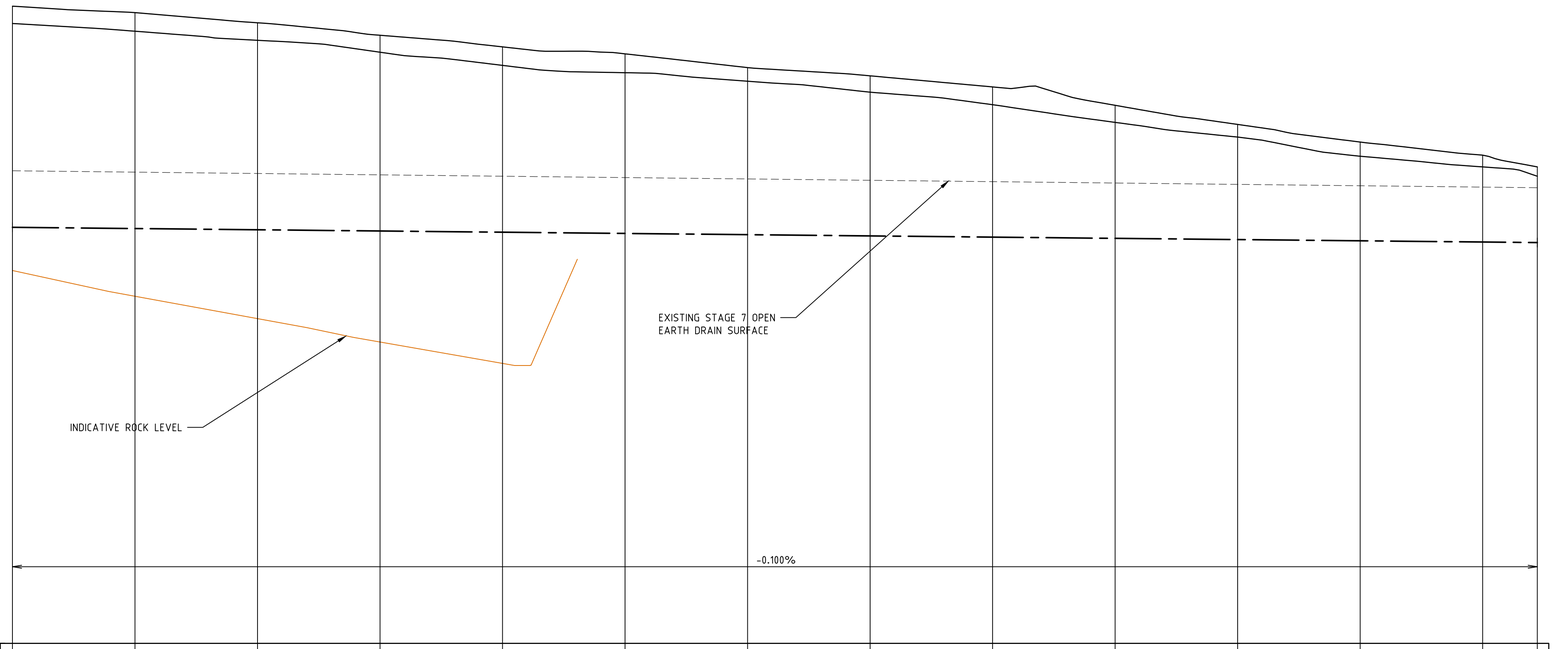
HORIZONTAL ALIGNMENT REPORT FOR OPEN EARTH DRAIN 5

POINT TYPE	CHAINAGE	COORDINATES X	Y	Z	BEARING DEG MIN SEC	RADIUS
STRAIGHT (START ALN)	0.000	315047.040	5844283.215	240.790	359°54'03.33"	
STRAIGHT	20.000	315047.005	5844303.215	240.770	359°54'03.33"	
STRAIGHT	40.000	315046.971	5844323.215	240.750	359°54'03.33"	
STRAIGHT	60.000	315046.936	5844343.215	240.730	359°54'03.33"	
STRAIGHT	80.000	315046.902	5844363.215	240.710	359°54'03.33"	
STRAIGHT	100.000	315046.867	5844383.215	240.690	359°54'03.33"	
STRAIGHT	120.000	315046.832	5844403.215	240.670	359°54'03.33"	
STRAIGHT	140.000	315046.798	5844423.215	240.650	359°54'03.33"	
STRAIGHT	160.000	315046.763	5844443.215	240.630	359°54'03.33"	
STRAIGHT	180.000	315046.729	5844463.215	240.610	359°54'03.33"	
STRAIGHT	200.000	315046.694	5844483.215	240.590	359°54'03.33"	
STRAIGHT	220.000	315046.660	5844503.215	240.570	359°54'03.33"	
STRAIGHT	240.000	315046.625	5844523.215	240.550	359°54'03.33"	
STRAIGHT (END ALN)	248.917	315046.609	5844532.132	240.541	359°54'03.33"	



VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL234

DESIGN RIGHT TOP OF SWALE	244.117	243.991	243.843	243.648	243.433	243.316	243.174	242.995	242.791	242.503	242.263	241.950	241.776	241.624
DESIGN LEFT TOP OF SWALE	244.399	244.295	244.128	243.925	243.735	243.622	243.397	243.262	243.081	242.781	242.669	242.181	241.968	241.777
EXISTING SURFACE RL	241.713	241.691	241.668	241.646	241.624	241.602	241.580	241.557	241.535	241.513	241.491	241.469	241.446	241.437
DESIGN SURFACE RL	240.790	240.770	240.750	240.730	240.710	240.690	240.670	240.650	240.630	240.610	240.590	240.570	240.550	240.541
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	248.92

LONGITUDINAL SECTION OED 5 DESIGN LINE

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11731OED01.dwg - 11731OED04
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REV	AMENDMENTS	DATE	APP'D.
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AN 1511011
Designed N.MIRATANA
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AN 1541397
Verified B.GORDON
Date 17/03/15
AN 162666
Audited S.LEA
Date 27/11/15
AN 1062227
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884937

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
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

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
OPEN EARTH DRAIN PLAN
SHEET 04 OF 04
Drawing No. 11731OED04 Rev 1
Sheet No. 32 AS CONSTRUCTED

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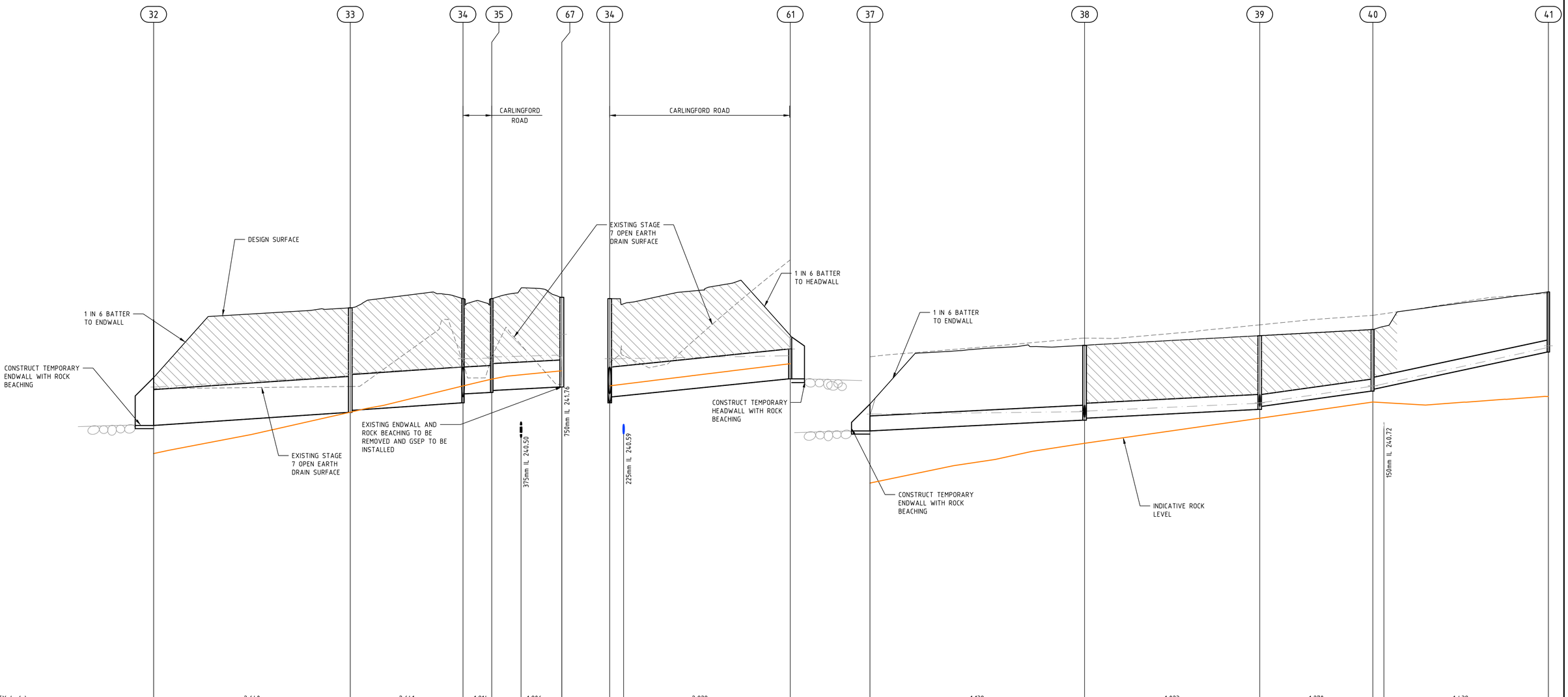

VELOCITY (m/s)		2.640		2.641		1.814	1.806			2.829				1.139		1.023		1.270		1.438				
PIPE GRADE VELOCITY		2.324		2.324		1.662	1.662			2.531				1.123		1.123		1.592		1.990				
PIPE GRADE %		0.667%		0.667%		0.500%	0.500%			1.000%				0.500%		0.500%		1.353%		2.114%				
PIPE FLOW (m3/s)		1.377		1.386		0.435	0.426			0.947				0.066		0.043		0.024		0.021				
PIPE CAPACITY AT GRADE		1.479		1.479		0.595	0.595			1.118				0.124		0.124		0.113		0.141				
PIPE SIZE (mm)		900		900		675	675			750				375		375		300		300				
DATUM	232.000								232.000				232.000											
DEPTH TO INVERT	0.000	0.000	2.621	2.571	2.613	2.388	2.352	2.302	2.249	2.613	2.465	-0.000	0.000	0.000	1.876	1.826	1.849	1.774	1.545	1.495	1.509			
HYDRAULIC GRADE LINE	241.752		242.037	242.098	242.263	242.466 242.462	242.481	242.509	242.554	243.076	242.263	242.466 242.462	242.538	242.708	241.076	241.124	241.152	241.345	241.358 241.362	241.769	241.784 241.782	242.742	242.787	
INVERT LEVEL	240.790	240.790	241.119	241.169	241.357	241.582	241.618	241.668	241.704	241.756	241.756	241.357	241.506	241.537	241.958	240.653	240.653	240.922	240.972	241.192	241.267	241.650	241.701	241.750	242.630
DESIGN SURFACE LEVEL	243.438		243.740	243.970	243.970		243.970		244.004	244.708	243.970		242.708			241.028		242.798		243.041		243.196			244.139
EXISTING SURFACE LEVEL	241.713		241.768	242.366	242.516				241.824	244.942	242.366					242.512		242.980		243.313		243.552			244.168
CHAINAGE	0.000	49.292	49.292	28.256	77.548	7.209	84.757	92.184 7.575	102.331 102.331	0.000	3.483	45.248	45.248	0.000	53.793	44.348	43.917	88.265	28.355	116.619	119.387	43.998		160.618

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AN 1511011
Designed N.MIRATANA
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Verified B.GORDON
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Audited S.LEA
Date 27/11/15
AN 1062228
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884938

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

DONNYBROOK ROAD, MICKLEHAM
STAGE 11
DRAINAGE LONGITUDINAL SECTIONS
SHEET 01 OF 03
Drawing No. 11731DR01 Rev 1
Sheet No. 33 AS CONSTRUCTED

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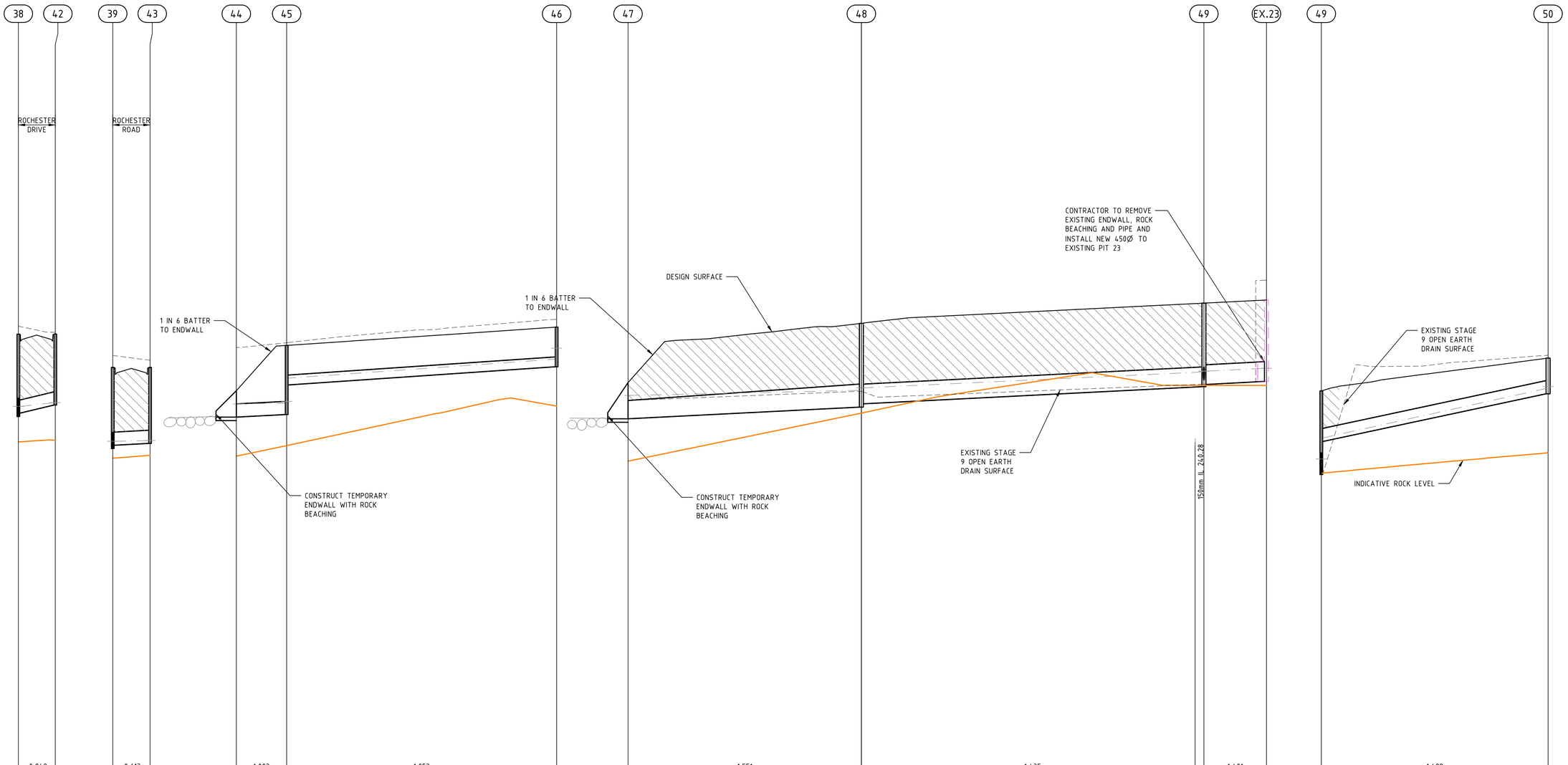
38
42
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EX.23
49
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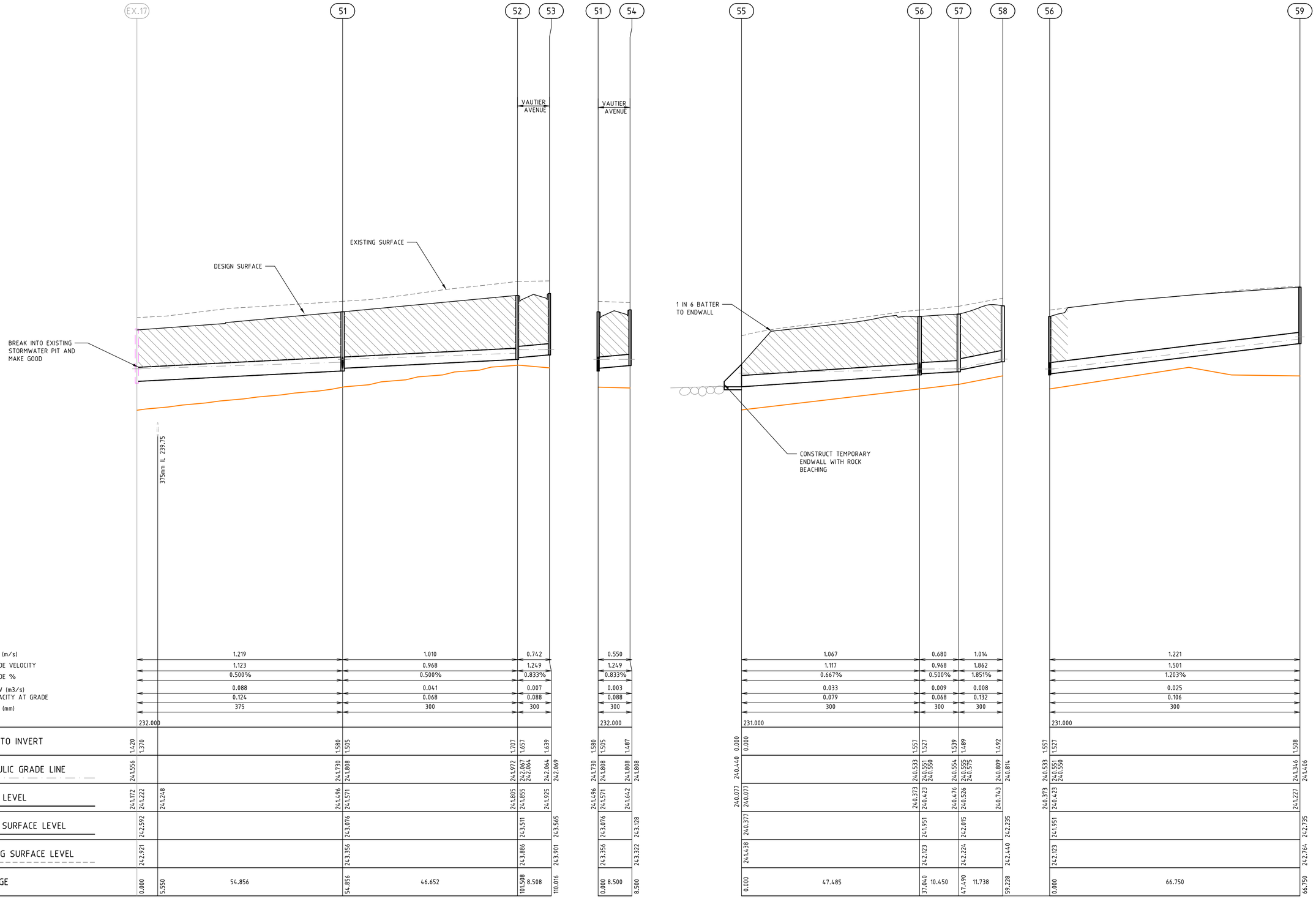
ROCHESTER DRIVE
ROCHESTER ROAD
1 IN 6 BATTER TO ENDWALL
CONSTRUCT TEMPORARY ENDWALL WITH ROCK BEACHING
1 IN 6 BATTER TO ENDWALL
DESIGN SURFACE
CONSTRUCT TEMPORARY ENDWALL WITH ROCK BEACHING
CONTRACTOR TO REMOVE EXISTING ENDWALL, ROCK BEACHING AND PIPE AND INSTALL NEW 450Ø TO EXISTING PIT 23
EXISTING STAGE 9 OPEN EARTH DRAIN SURFACE
150mm IL 240.28
EXISTING STAGE 9 OPEN EARTH DRAIN SURFACE
INDICATIVE ROCK LEVEL

| | | |



LEGEND

DENOTES CLASS 2 CRUSHED ROCK BACKFILL

AS CONSTRUCTED

REV	AMENDMENTS	DATE	APP'D.
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AN 1511011
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Date 27/11/15
AN 1062230
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884940

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 11
DRAINAGE LONGITUDINAL SECTIONS
SHEET 03 OF 03
Drawing No. 11731DR03 Rev 1
Sheet No. 35 AS CONSTRUCTED

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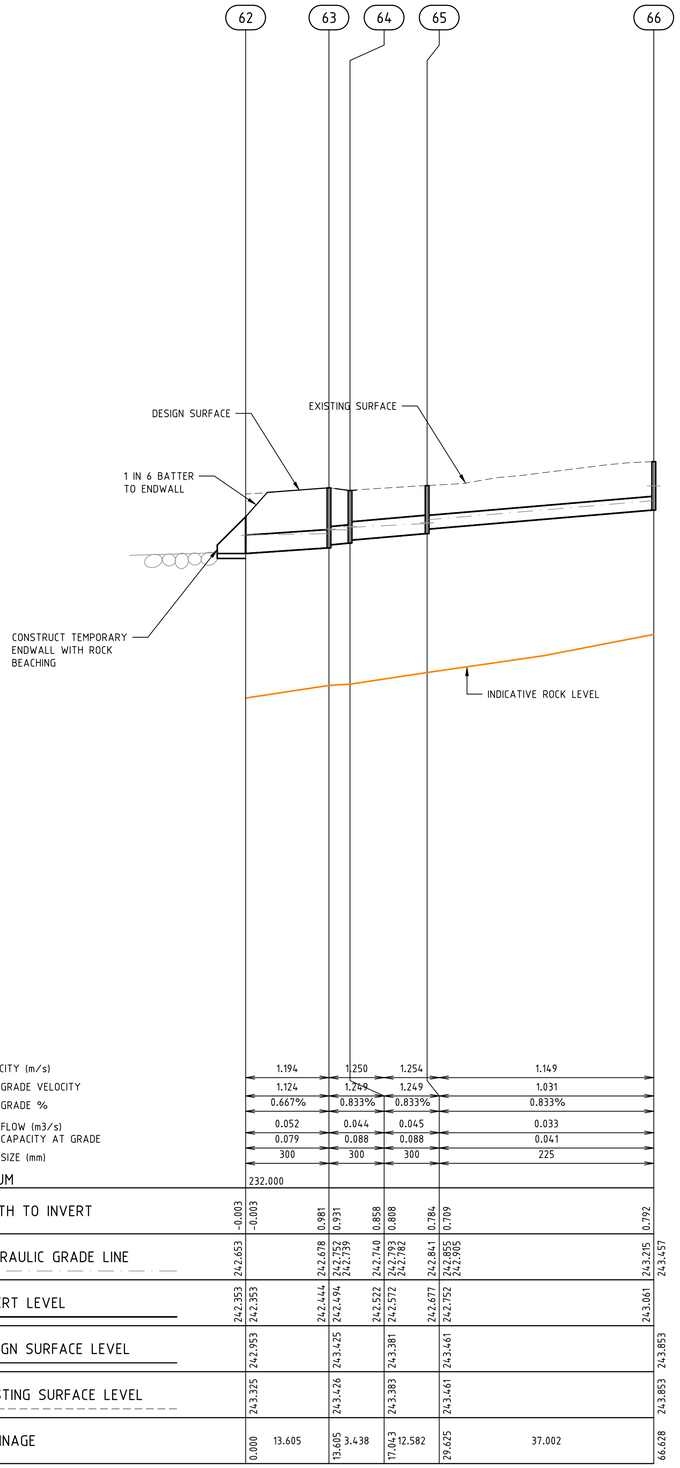
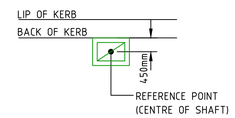


PIT NAME	PIT TYPE	EASTING	NORTHING	INTERNAL WD	INTERNAL LEN	INLET DIA	INLET INV LEV	OUTLET DIA	OUTLET INV LEV	PIT SETOUT RL	PIT DEPTH	REMARKS
Ex.2	GSEP	315047.56	5844155.904	T600 B900	T900 B900	600	242.033	675	241.958	243.871	1.913	CONVERT EXISTING JP TO GSEP AND MATCH TO DESIGN LEVELS.
Ex.22	GSEP	315063.760	5844155.932	600	900			300	242.51	243.871	1.361	REMOVE HEAVY DUTY GRATE LID AND CONVERT EXISTING JP TO GEP AND MATCH TO DESIGN LEVELS.
Ex.27	GSEP	315069.726	5844175.104	600	900	300	242.301	375	242.226	243.911	1.685	CONVERT EXISTING JP TO GSEP AND MATCH TO DESIGN LEVELS.
Ex.28	GSEP	315101.127	5844175.158	600	900	300	242.476	300	242.426	243.621	1.195	CONVERT EXISTING JP TO GSEP AND MATCH TO DESIGN LEVELS.
32	EW	315047.040	5844283.215			900	240.852			243.501	2.649	OUTFALL STRUCTURE REF GAA STD DRW FIG. 019
33	GSEP	315047.426	5844233.925	T600 B900	T900 B1200	900	241.169	900	241.119	243.74	2.621	HAUNCHED GSEP. REFER TO GAA STD DRG FIG.012 & HCC SD245
34	GSEP	315041.476	5844206.302	T600 B1000	T900 B1200	675 750	241.582 241.506	900	241.357	243.97	2.613	HAUNCHED GSEP. REFER TO GAA STD DRG FIG.012 & HCC SD245
35	GSEP	315041.485	5844199.094	T600 B900	T900 B1200	675	241.668	675	241.618	243.97	2.352	HAUNCHED GSEP. REFER TO GAA STD DRG FIG.012 & HCC SD245
67	GSEP	315047.514	5844182.585	T600 B900	T900 B1050			675	241.756	244.002	2.244	REMOVE EXISTING HEADWALL (EX.1) AND CONSTRUCT GSEP. HAUNCHED GSEP. REFER TO GAA STD DRG FIG.012 & HCC SD245
54	GSEP	315159.590	5844178.202	600	900			300	241.642	243.128	1.487	REFER TO GAA STD DRG FIG.012
59	JP	315226.704	5844188.791	600	900			300	241.227	242.735	1.508	REFER TO GAA STD DRG FIG.014
61	EW	314997.288	5844196.565					750	241.958	244.665	2.68	INLET STRUCTURE REF GAA STA DRG FIG .019
37	EW	315133.606	5844331.759			375	240.653			241.076	0.376	OUTFALL STRUCTURE REF GAA STD DRW FIG. 019
38	GSEP	315133.699	5844277.966	600	900	375	240.972	375	240.922	242.798	1.876	REFER TO GAA STD DRG FIG.012
						300	240.997					
39	GSEP	315128.307	5844234.381	600	900	300	241.267	375	241.192	243.041	1.849	REFER TO GAA STD DRG FIG.012
						300	241.267					
40	GSEP	315124.821	5844206.241	600	900	300	241.701	300	241.65	243.205	1.545	REFER TO GAA STD DRG FIG.012
41	JP	315080.823	5844206.165	600	900			300	242.63	244.139	1.509	REFER TO GAA STD DRG FIG.014
42	GSEP	315142.093	5844277.427	600	900			300	241.184	242.842	1.617	REFER TO GAA STD DRG FIG.012
44	EW	315172.934	5844286.514			300	240.911			241.211	0.3	
45	JP	315172.887	5844275.047	600	900	225	241.644	300	240.969	242.544	1.575	REFER TO GAA STD DRG FIG.014
46	JP	315165.337	5844214.017	600	900			225	241.058	242.962	1.504	REFER TO GAA STD DRG FIG.014
47	EW	315209.633	5844326.495			525	239.873			241.663	0.422	
48	GSEP	315209.636	5844273.351	T600 B900	T900 B900	450	240.215	525	240.139	242.047	1.924	HAUNCHED GSEP. REFER TO GAA STD DRG FIG.012 & HCC SD245
49	GSEP	315200.127	5844195.909	600	900	450	240.654	450	240.604	242.508	1.92	REFER TO GAA STD DRG FIG.012
						300	241.354					
Ex.23	GSEP	315198.377	5844181.766	600	900			450	240.725	242.579	1.87	CONVERT EXISTING JP TO GSEP AND MATCH TO DESIGN LEVELS. CONNECT NEW PIPE AND MAKE GOOD
Ex.24	GSEP	315206.813	5844180.723	600	900	450	240.878	450	240.828	242.579	1.936	CONVERT EXISTING JP TO GSEP AND MATCH TO DESIGN LEVELS.
Ex.25	GSEP	315214.031	5844171.466	600	900	375	241.011	450	240.936	242.845	1.908	CONVERT EXISTING JP TO GSEP AND MATCH TO DESIGN LEVELS.
50	JP	315148.867	5844202.250	600	900			300	242.443	243.256	1.514	REFER TO GAA STD DRG FIG.014
Ex.17	GSEP	315212.987	5844163.031	600	900	375	241.222			242.622	1.45	CONNECT TO EXISTING PIT AND MAKE GOOD
51	GSEP	315158.546	5844169.766	600	900	300	241.571	375	241.496	243.128	1.632	REFER TO GAA STD DRG FIG.012
						300	241.571					
52	GSEP	315112.208	5844175.168	600	900	300	241.855	300	241.805	243.564	1.76	REFER TO GAA STD DRG FIG.012
53	GSEP	315112.191	5844183.677	600	900			300	241.925	243.565	1.639	REFER TO GAA STD DRG FIG.012
55	EW	315282.026	5844249.206			300	240.077			240.44	0.293	OUTFALL STRUCTURE REF GAA STD DRW FIG. 019
56	GSEP	315234.900	5844255.036	600	900	300	240.423	300	240.373	241.951	1.557	REFER TO GAA STD DRG FIG.012
						300	240.423					
57	GSEP	315224.528	5844256.319	600	900	300	240.526	300	240.476	242.015	1.54	REFER TO GAA STD DRG FIG.012
58	GSEP	315215.272	5844249.101	600	900			300	240.743	242.235	1.492	REFER TO GAA STD DRG FIG.012
43	GSEP	315136.743	5844233.337	600	900			300	241.31	243.041	1.732	REFER TO GAA STD DRG FIG.012
62	EW	315100.931	5844288.322			300	242.353			243	0.3	OUTFALL STRUCTURE REF GAA STD DRW FIG. 019
63	JP	315100.955	5844274.717	600	600	300	242.494	300	242.444	243.417	0.981	REFER TO GAA STD FIG. 014
64	JP	315104.393	5844274.723	600	600	300	242.572	300	242.522	243.38	0.858	REFER TO GAA STD FIG. 014
65	JP	315104.415	5844262.141	600	600	225	242.752	300	242.677	243.47	0.784	REFER TO GAA STD FIG. 014
66	JP	315100.040	5844225.398	600	600			225	243.061	243.825	0.792	REFER TO GAA STD FIG. 014

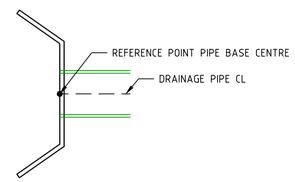
NOTES :

1. EASTING, NORTHING SETOUT TO CENTRE OF PIT COVER SHAFT.
2. SETOUT LEVEL TO PIT COVER LEVEL.
3. EASTING, NORTHING ENDWALL SETOUT POINTS QUOTED TO PIPE BASE CENTRE.
4. ALL PIT COVERS TO BE IN ACCORDANCE TO GROWTH AREAS AUTHORITY STD FIGURE 012.
5. STEP IRONS REQUIRED FOR ALL PITS GREATER THAN 900mm IN DEPTH.
6. PIT FLOOR TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROPS LESS THAN 50mm.
7. ALL DRAINAGE WORKS ARE TO BE CONSTRUCTED TO GROWTH AREA AUTHORITY (GAA) SPECIFICATIONS.
8. PIT BASE TO BE SHAPED WITH MASS CONCRETE FOR SMOOTH HYDRAULIC FLOW.
9. 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.
10. ALL HAUNCHED PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS SD1001 TO SD1023.



PIT SETOUT POINT

SCALE 1:100



TEMPORARY OUTLET

ROCK ENDWALL SETOUT POINT

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REV	AMENDMENTS	DATE	APP'D.
2	AS CONSTRUCTED	20/05/16	TL
1	AMENDED DRAINAGE LONGITUDINAL SECTIONS	05/04/16	TL
0	CONSTRUCTION ISSUE	14/12/15	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.

Drawn K.PAGE
Date 12/03/15
AN 1511011
Designed N.MIRATANA
Date 10/03/15
AN 1541144
Verified B.GORDON
Date 17/03/15
AN 162154
Audited S.LEA
Date 27/11/15
AN 1062231
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884941

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
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
DRAINAGE PIT SCHEDULE

Drawing No. 11731DR04 Rev 2
Sheet No. 36 AS CONSTRUCTED

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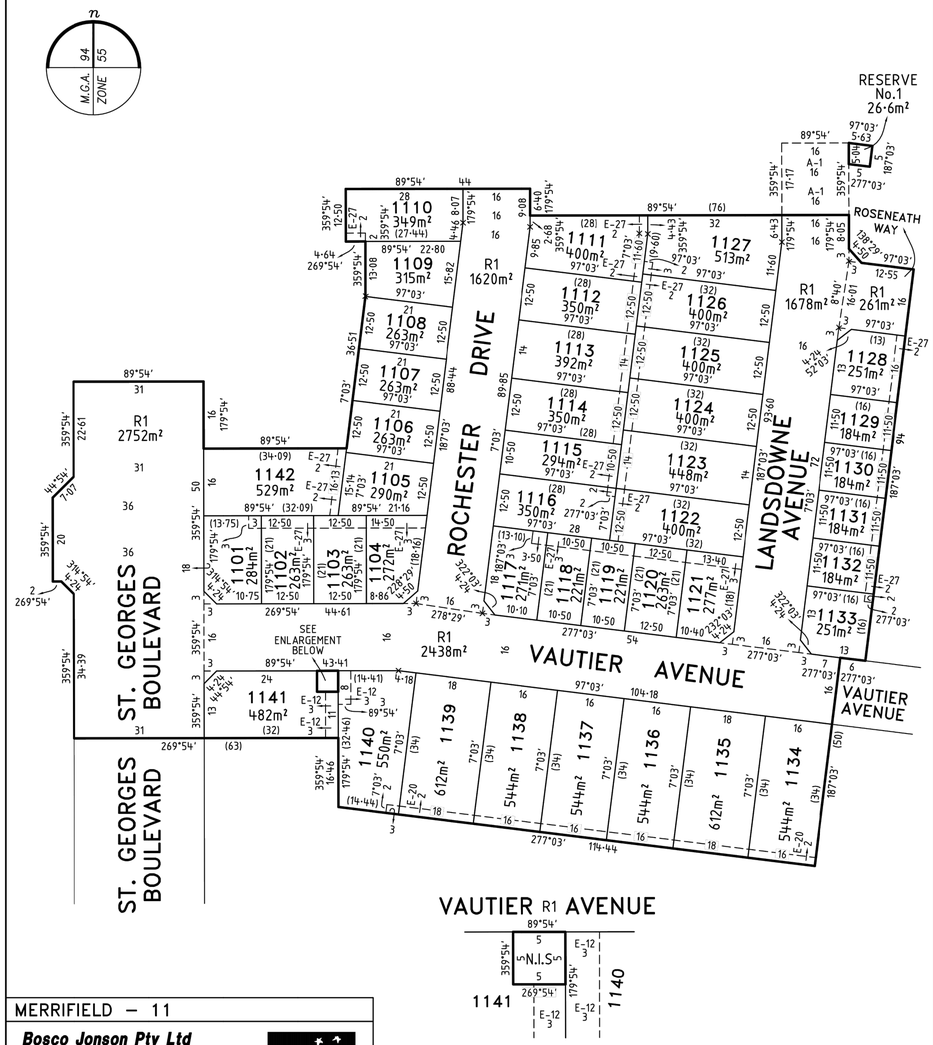
PLAN OF SUBDIVISION

Plan Number
PS 734604X



ENLARGEMENT
NOT TO SCALE

MERRIFIELD – 11

Bosco Jonson Pty Ltd
A.B.N 15 169 138 827
P.O. Box 5075, South Melbourne, Vic 3205
16 Eastern Road South Melbourne
Vic 3205 Australia
Tel 03) 9699 1400 Fax 03) 9699 5992

ORIGINAL		SCALE		
SCALE	SHEET SIZE	8 0 16 32	LICENSED SURVEYOR (PRINT) GEOFFREY JAMES TURNER	Sheet 2
1:800	A3	LENGTHS ARE IN METRES	SIGNATURE DIGITALLY SIGNED DATE / /	
			REF 29005113 DWG 2900511AG 09/06/15 VERSION G	

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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

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Audited S.LEA
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AN 884942

AS CONSTRUCTED

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Coords: MGA
Levels: AHD

Scale @ A1/A3 1:500/1:1000

MERRIFIELD DEVELOPMENT
DONNYBROOK ROAD, MICKLEHAM
STAGE 11
PLAN OF SUBDIVISION

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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.

AS CONSTRUCTED

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REV	AMENDMENTS	DATE	APP'D.
1	AS CONSTRUCTED	20/05/16	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.

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Date 17/03/15
AN 162156
Audited S.LEA
Date 27/11/15
AN 1062233
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884943

LEGEND

LIMIT OF WORKS
ES EXISTING SURFACE LEVEL
FS FINISHED SURFACE LEVEL

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 11
FILL PLAN

Drawing No. 11731FP01 Rev 1
Sheet No. 38 AS CONSTRUCTED

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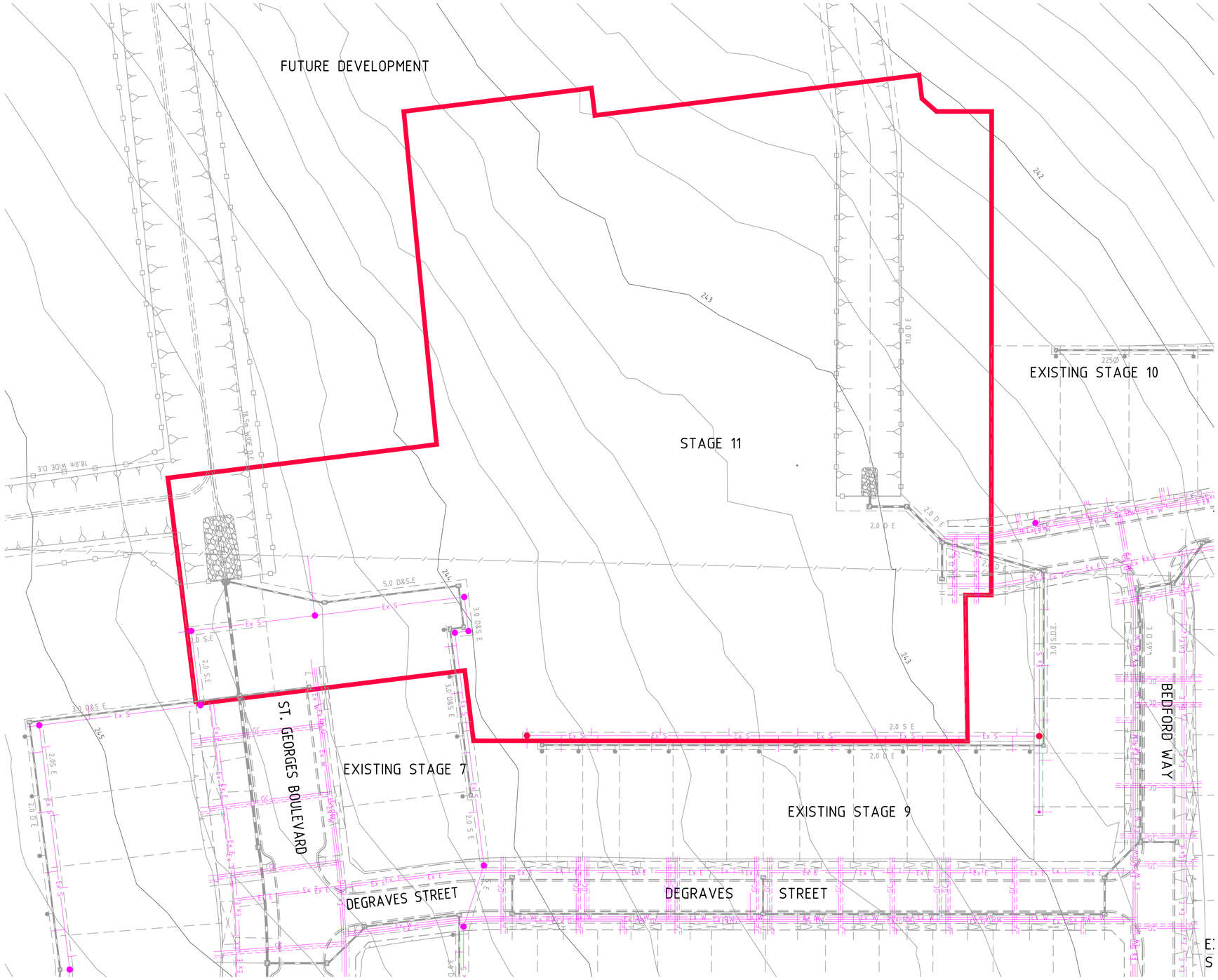

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1	AS CONSTRUCTED	20/05/16	TL
0	CONSTRUCTION ISSUE	14/12/15	TL

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Audited S.LEA
Date 27/11/15
AN 1062234
Approved T.LIAKOPOULOS
Date 14/12/15
AN 884944

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.

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

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 11
EXISTING FEATURES

Drawing No. 11731EF01 Rev 1
Sheet No. 39 AS CONSTRUCTED

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