

BEACONSFIELD WATTLE ESTATE

STAGE 2

190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL

FOR



CIVIL DRAWINGS ROADS AND DRAINAGE

DCE REF: 18144.2
MELWAY REF: 214 B4

Drawing File: C:\124 Synergy\Draws\SYNERGY-MEL\18144.2-Beaconsfield Wattle Estate - Stage 2\2000\1 DESIGN\01 JCD\04_F01\18144.2B4.dwg - FS
Date/Time: Tue Feb 23, 2021 - 11:17am ---cossab---

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CONSTRUCTION

GENERAL NOTES

1.

ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
2.

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH VPA GUIDELINES, AS4000 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED CARDINIA SHIRE COUNCIL SPECIFICATION AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE CITY ENGINEER OR HIS REPRESENTATIVE.
3.

A PRE-COMMENCEMENT MEETING WITH COUNCIL IS TO BE ARRANGED PRIOR TO COMMENCEMENT OF THE WORKS.
4.

ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING SEVEN DAYS PRIOR TO COMMENCEMENT OF THE WORKS.
5.

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.
6.

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.
7.

THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE MADE GOOD.
8.

ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
9.

FILL AREAS IN EXCESS OF 300mm ARE TO BE STRIPPED OF TOPSOIL, FILLED, AND TOPSOIL REPLACED TO OBTAIN THE FINAL FILL LEVELS SHOWN ON THE DRAWINGS. ALL FILLING MUST ENSURE LEVEL 1 GEOTECHNICAL SUPERVISION IS MAINTAINED AS PER CLAUSE 8.2 OF AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS". STRUCTURAL FILLING MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL PRIOR TO PLACEMENT.
10.

NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE OR COMMON PROPERTY UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO TOPSOIL IS TO BE REMOVED FROM SITE. SURPLUS SOIL MUST BE MADE AVAILABLE FOR LOTS AND RESERVES.
11.

WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL AND CONSTRUCTED IN LAYERS 150MM THICK WITH COMPACTION IN ACCORDANCE WITH AS3798. PRIOR TO THE PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENTS, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
12.

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.
13.

AT LEAST 3 DAYS BEFORE COMMENCING EXCAVATION OF TRENCHES IN EXCESS OF 1.5m DEPTH, A COMPLETED "NOTICE OF INTENTION TO COMMENCE TRENCHING OPERATIONS" FORM SHALL BE SENT TO WORKSAFE VICTORIA. THE NOMINATED SUPERVISOR SHALL BE SUITABLY QUALIFIED IN ACCORDANCE WITH VICTORIAN OHS ACT 1985 & COMMONWEALTH OHS CODE OF PRACTICE 2008.
14.

NO BLASTING TO BE CARRIED OUT WITHIN 20 METRES OF EXISTING SERVICES.
15.

ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE ENGINEER.
16.

ALL DISTURBED SURFACES SHOULD BE OVER EXCAVATED BY 150mm, TOP SOILED WITH MINIMUM 150mm OF LOCAL TOP SOIL AND BITUMEN STRAW HYDROSEED.
17.

ALL BLOCKS ARE TO SURFACE GRADE WITH A MINIMUM FALL OF 1 IN 150 ALONG THE LOW SIDE BOUNDARY TO THE POINT OF DISCHARGE.
18.

ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
19.

ALL CHAINAGES REFER TO ROAD RESERVE CENTRELINES EXCEPT:
- IN COURT HEADS WHERE CHAINAGES REFER TO LIP OF KERB
- KERB RETURNS WHERE CHAINAGES REFER TO LIP OF KERB.
20.

GENERALLY SM2 KERB AND CHANNEL IS TO BE USED THROUGHOUT THE SUBDIVISION. WHERE OTHER KERB TYPES ARE REQUIRED THEY ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
21.

LIP OF ALL KERB RADII ARE 8.60m UNLESS OTHERWISE SHOWN.
22.

FOOTPATHS TO BE OFFSET 50mm FROM THE TITLE BOUNDARIES.
23.

VEHICULAR CROSSINGS OF THE TYPE INDICATED ARE TO BE OFFSET 0.75m FROM THE LOT BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. DRIVEWAY GRADES INTO ALLOTMENTS TO BE 1 IN 6 MAX. DRIVEWAY LAYBACK AND WINGS SHALL BE CONSTRUCTED AS A SINGLE SEGMENT OF CONCRETE.

24.

PROVIDE LAYBACKS IN KERB TO ALL PRAM CROSSINGS IN ACCORDANCE WITH COUNCIL STANDARDS. ASPHALT FILLETS/RAMPS ARE TO BE PROVIDED ON THE BASE COURSE ASPHALT TO REMOVE TRIPS AT ALL PEDESTRIAN CROSSING LOCATIONS.
25.

ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2, UNLESS SPECIFICALLY SHOWN OTHERWISE. LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT. TEMPORARY LINEMARKING USING ORDINARY PAINT IS TO BE APPLIED WHEN WEARING COURSE ASPHALT IS NOT APPLIED FOR A PERIOD OF TIME E.G. AT PRACTICAL COMPLETION. STREET SIGNS ARE REQUIRED TO SHOW STREET NUMBERS APPLICABLE TO EACH BLOCK. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH AS 1742-3.
26.

THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS SHALL BE PROVEN ON SITE. THE APPROPRIATE AUTHORITY SHALL BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
27.

ALL EASEMENTS ARE 2.0m OR 3.0m WIDE DRAINAGE AND SEWERAGE EASEMENTS UNLESS OTHERWISE SHOWN.
28.

CENTRELINES OF ALL SEWERS ARE OFFSET 1.2m OR 2.0m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
29.

CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m FROM THE PROPERTY LINE UNLESS OTHERWISE SHOWN.
30.

ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC PIPES UNLESS OTHERWISE SHOWN. ALL RC PIPES ARE TO BE RUBBER RING JOINTED (IRRJ).
31.

WHERE CURVED PIPES ARE SHOWN ON THE FACE 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.
32.

ALL PIPE AND SERVICE TRENCHES THAT EXTEND UNDER ROADWAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. 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.
33.

100mm NOMINAL DIAMETER P.V.C. CLASS 400 A.G. DRAIN TO BE LAID BEHIND ALL KERB & CHANNEL AS SHOWN ON THE TYPICAL SECTION.
34.

PROPERTY INLETS ARE TO BE PLACED 1.0m FROM LOW CORNERS OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
35.

100mm DIA. HOUSE DRAINS IN STREETS TO BE PLACED 5.5m FROM LOW CORNERS AS PER VPA STANDARD DRAWING EDM 701 UNLESS OTHERWISE SHOWN. THE KERB IS TO BE STENCILLED "H" ADJACENT TO THE PROPERTY CONNECTION FOR EACH LOT.
36.

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.
37.

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.
38.

GAS & WATER CONDUITS ARE TO BE 100mm DIA. CLASS 12 P.V.C. LAID AT A MINIMUM DEPTH OF 815mm BELOW TOP OF KERB AND LOCATED IN THE POSITIONS SHOWN. THEY ARE TO BE PLACED AT RIGHT ANGLES TO THE KERB AND SERVICE ALIGNMENT AND ARE TO EXTEND TO THE PROPERTY BOUNDARY. CONDUITS ARE TO BE REFERENCED IN 50mm HIGH LETTERS ON THE FACE OF KERB AND CHANNEL.
39.

ELECTRICITY CONDUITS ARE TO BE LAID WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS :
UNDER ROADS - 0.90m
ELSEWHERE - 0.60m
40.

ANY LINE MARKING REQUIRED AS PART OF THE CONSTRUCTION PLANS, MUST BE APPLIED TO THE INTERIM ASPHALTS LAYER, AS WELL AS THE WEARING COURSE LAYER.
41.

ALL PAVEMENT MATERIALS ARE TO BE VICROADS APPROVED MATERIALS
42.

PRIOR TO THE ISSUE OF A STATEMENT OF COMPLIANCE, ALL DRAINS ARE TO BE CCTV TESTED AND THE RESULTS PROVIDED TO COUNCIL.
43.

NO TOPSOIL IS TO BE REMOVED FROM SITE WITHOUT THE APPROVAL OF COUNCIL.
44.

NBN PITS SHALL BE CONSTRUCTED CLEAR OF FOOTPATHS.
45.

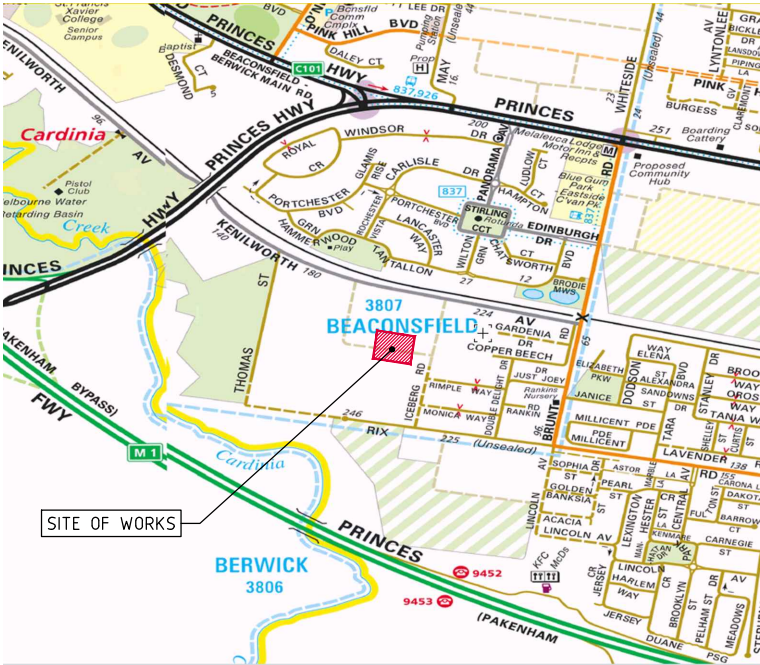
STREET NUMBERS TO BE STENCILLED ON THE FACE OF KERB IN 100mm HIGH YELLOW NUMERALS
46.

APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING CONSTRUCTION AND MAINTENANCE PERIOD
47.

HAZARD/DIRECTIONAL TGSIS AND PRAM CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS AND AS1428.4
48.

PSM SKETCH PLANS ARE TO BE PREPARED ESTABLISHING A.H.D LEVELS AND A.M.G CO-ORDINATES FOR REGISTRATION BY A LICENSED SURVEYOR
49.

SUBSURFACE DRAINS ARE TO BE LAID BEHIND ALL KERB AND CHANNEL AS PER EDM 202



LOCALITY PLAN

MELWAYS: 214 B4
SCALE @ A1: 1:10,000

DRAWING INDEX

SHEET No.	DRAWING No.	DESCRIPTION
01	1814.4.2TD01	NOTES, LOCALITY PLAN AND DRAWING INDEX
02	1814.4.2TD02	TYPICAL SECTIONS, DETAILS AND PAVEMENT DETAILS
03	1814.4.2SP01	STAGING PLAN
04	1814.4.2DP01	DETAIL PLAN
05	1814.4.2SOP01	SETOUT DETAILS
06	1814.4.2ID01	INTERSECTION DETAILS
07	1814.4.2LM01	SIGNAGE AND LINEMARKING PLAN
08	1814.4.2LS01	ROAD LONGITUDINAL SECTIONS
09-10	1814.4.2XS01-02	CROSS SECTIONS, SHEETS 01 TO 02
11	1814.4.2DR01	DRAINAGE LONGITUDINAL SECTIONS
12	1814.4.2PIT01	PIT SCHEDULE
13-14	1814.4.2POS01-02	PLAN OF SUBDIVISION, SHEETS 01 TO 02
15	1814.4.2FP01	FILL PLAN
16	1814.4.2EW01	EARTHWORKS PLAN
17	1814.4.2EF01	EXISTING FEATURES PLAN
18	1814.4.2TR01	TREE REMOVAL AND DEMOLITION PLAN

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.

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!
BEWARE OF ASBESTOS!
SOME UNDERGROUND SERVICES MAY BE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD.

DAM REMEDIATION

- D1.

THE DAM LOCATION ON THE SITE IS TO BE DRAINED & FILLED AS PART OF THE DEVELOPMENT. MATERIAL RECOVERED FROM THE DAM CAN BE RE-USED AS FILL.
- D2.

PRIOR TO FILLING, WET MATERIAL & ANY ORGANIC MATERIAL SHOULD BE REMOVED FROM THE BASE & SIDES OF THE PONDAGE TO EXPOSE A FIRM SURFACE WHICH SHOULD THEN BE COMPACTED TO A MINIMUM OF 100% OF MAXIMUM STANDARD DRY DENSITY. WET MATERIAL REMOVED FROM THE PONDAGE SHALL BE DISCARDED
- D3.

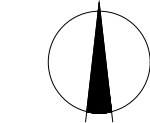
THE FILL MATERIAL SHOULD BE PLACED UNDER CONTROLLED CONDITIONS. GUIDELINES FOR THE SPECIFICATION & TESTING OF EARTHWORKS PREPARED BY STANDARDS AUSTRALIA (AS3798-GUIDELINES ON EARTHWORKS FOR COMMERCIAL A & RESIDENTIAL DEVELOPMENTS) SHALL BE FOLLOWED. IMPORTED FILL USED TO FILL THE PONDAGE SHALL BE INSPECTED & TESTED TO DETERMINED ITS SUITABILITY FOR THE PURPOSE

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Date/Time: Tue Feb 23, 2021 - 11:17am ---cassib--

REV	DESCRIPTION	DATE	AMEND	APP'D
2	WATTLE CRES ALIGNMENT & SERVICES AMENDED	23/02/21	CB/CB	TL
1	STREET NAMES AMENDED	04/02/21	JB/JB	TL
0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn Date AN B.SHADE 12/06/2020 1271285
Designed Date AN C.BLISSET 20/05/2020 2771021
Checked Date AN T.THAVENDRAN 30/09/2020 944064
Approved Date AN T.LIAKOPOULOS 12/01/21 889018

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Coords: MGA Levels: AHD



Scale @ A1/A3 As Shown

BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
NOTES, LOCALITY PLAN
AND DRAWING INDEX
Drawing No. 18144.2TD01
Rev 2
Sheet No. 01 of 18

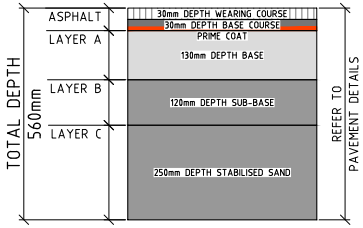
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CONSTRUCTION

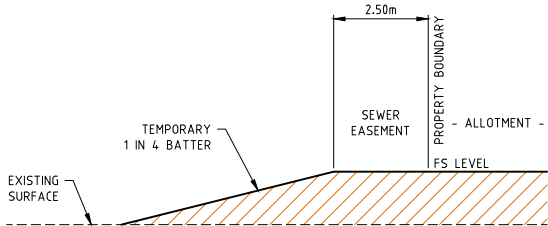
PAVEMENT DETAILS

ACCESS STREET LEVEL 1 - WATTLE CRESCENT	
THIN ASPHALT PAVEMENT WITH STABILISED SAND SUBGRADE	
ASPHALT	WEARING COURSE 30mm TYPE N SIZE 10mm STONE (BINDER CLASS - C320) BASE COURSE 30mm TYPE N SIZE 10mm STONE (BINDER CLASS - C320) PRIME OR PRIMERSEAL
LAYER A	BASE 130mm CLASS 2 CRUSHED ROCK (20mm STONE)
LAYER B	SUB-BASE 120mm CLASS 3 CRUSHED ROCK (20mm STONE)
LAYER C	STABILISED SAND 250mm STABILISED SAND SUBGRADE AS PER REPORT (REF. 120560)
DEPTH TOTAL	560mm min.

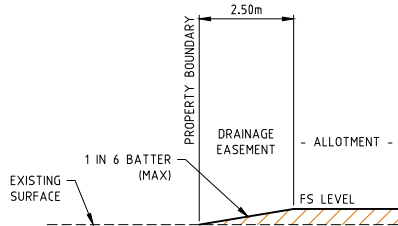
NOTE:
REFER A.S. JAMES PTY LTD "REPORT NO. 120560/A"
DATED: 1 SEPTEMBER 2020



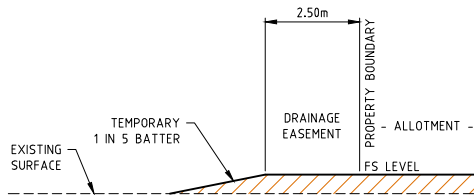
TYPICAL PAVEMENT DETAIL
SCALE @ A1 1:10



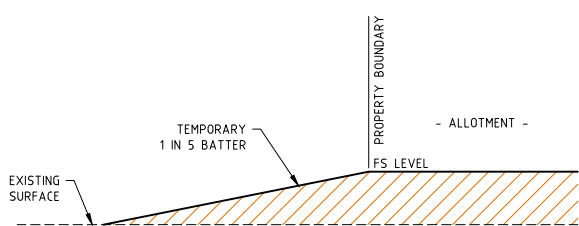
DETAIL-A
BATTER TREATMENT - TO ADJACENT LAND
REAR LOTS 13-20



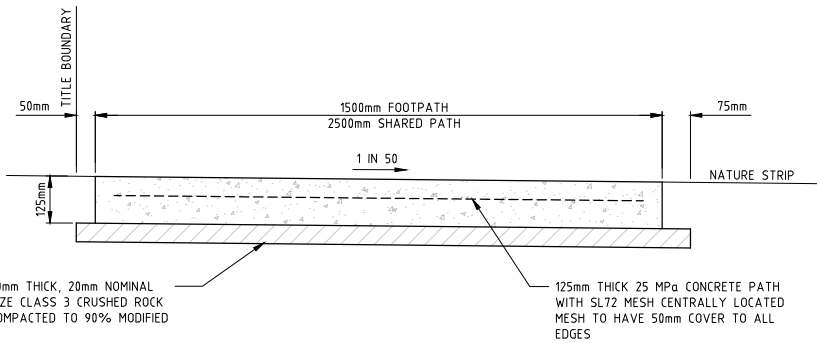
DETAIL-B
BATTER TREATMENT - TO ADJACENT LAND
REAR LOTS 7-12



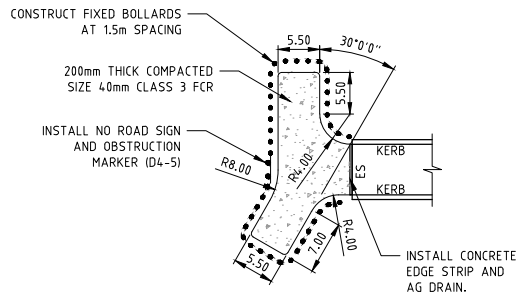
DETAIL-C
BATTER TREATMENT - TO ADJACENT LAND
SIDE LOT 12



DETAIL-D
BATTER TREATMENT - TO ADJACENT LAND
SIDE LOT 13



TYPICAL SECTION
SHARED PATH & FOOTPATH
SCALE 1:10
REFER TO VPA EDCM STANDARD DRG 401

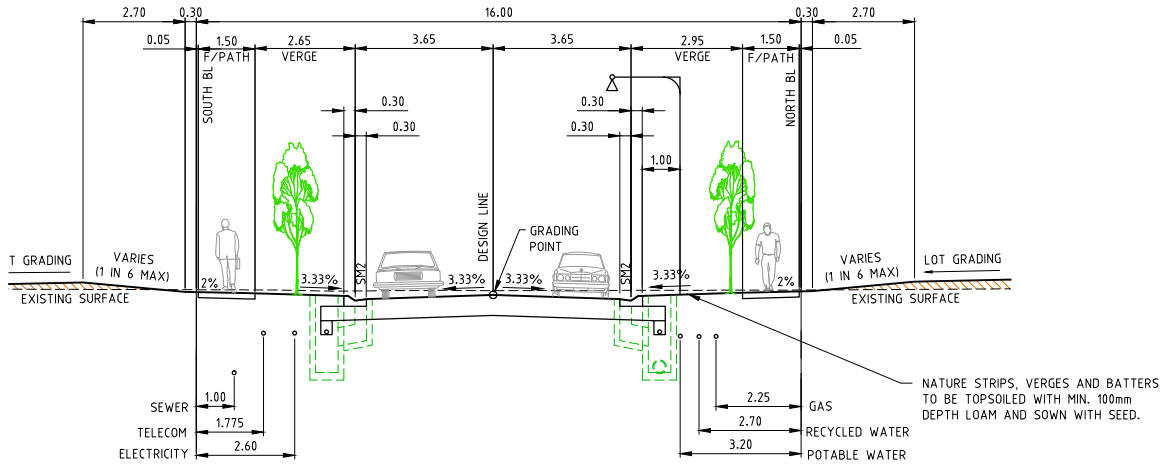


TYPICAL HAMMERHEAD
TEMPORARY TURNING AREA
N.T.S.

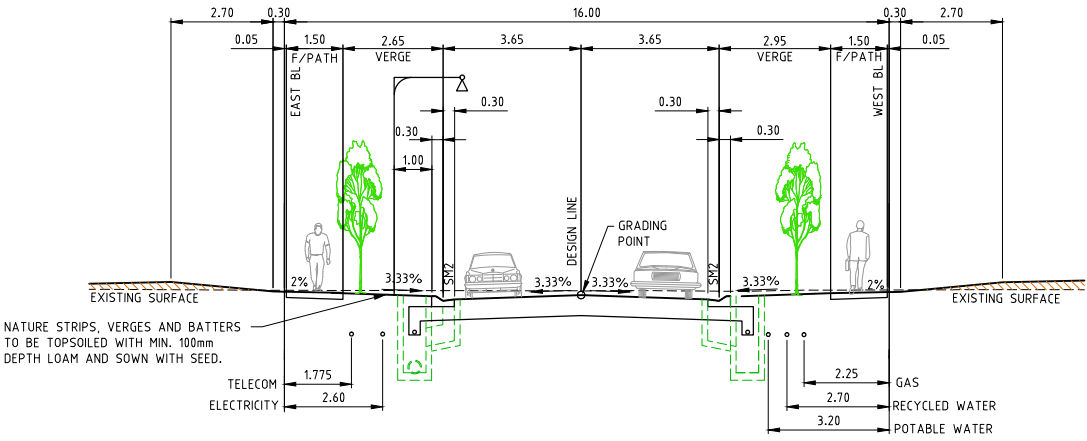
TABLE OF SERVICE LOCATIONS

STREET NAME	SEWER	WATER	NDW	GAS	COMMS	ELEC	*POLES	BOK
WATTLE CRESCENT	1.00 S	3.20 N	2.70 N	2.25 N	1.775 S	2.60 S	1.00 N	4.20 N 3.90 S
TATJANA WAY	-	3.20 W	2.70 W	2.25 W	1.775 E	2.60 E	1.00 E	4.20 W 3.90 E

* FROM BACK OF KERB



ACCESS STREET LEVEL 1 (16m)
WATTLE CRESCENT
SCALE: 1:100



ACCESS STREET LEVEL 1 (16m)
TATJANA WAY
SCALE: 1:100

NOTE: PAVEMENT JOINTS
ROAD PAVEMENT JOINTS TO BE INSTALLED IN ACCORDANCE WITH EDCM STANDARD DRAWING 201.

NOTE: AG DRAINS
AG DRAINS TO BE INSTALLED IN ACCORDANCE WITH EDCM STANDARD DRAWING 202.

NOTE: LIGHT POLES AND STREET TREES
1. LOCATIONS OF LIGHT POLES SHOWN ON ALL TYPICAL SECTIONS ARE ONLY INDICATIVE AND NOT THE EXACT LOCATION OF PROPOSED LIGHT POLES.
2. PROPOSED TREES SHALL BE CLEAR OF SERVICES AND LOCATED AT A SUITABLE LOCATION THAT WILL MINIMISE DAMAGE TO ABUTTING SERVICES.

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REV	DESCRIPTION	DATE	AMEND	APP'D
2	WATTLE CRES ALIGNMENT & SERVICES AMENDED	23/02/21	CB/CB	TL
1	STREET NAMES AMENDED	04/02/21	JB/JB	TL
0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn	B.SHADE
Date	12/06/2020
AN	1271285
Designed	C.BLISSET
Date	20/05/2020
AN	2771021
Checked	T.THAVENDRAN
Date	30/09/2020
AN	944064
Approved	T.LIAKOPOULOS
Date	12/01/21
AN	889018

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BANRIAR
INVESTMENTS



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

BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
TYPICAL SECTIONS, DETAILS AND
PAVEMENT DETAILS
Drawing No. 18144.2TD02
Rev 2

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CONSTRUCTION

TBM SCHEDULE

I.D.	TYPE	EASTING	NORTHING	LEVEL
TBM 1	SPIKE	358001.801	5786203.706	43.75
TBM 2	SPIKE	358092.820	5786180.665	43.38
TBM 3	SPIKE	358146.664	5786168.642	43.10
TBM 4	SPIKE	358298.685	5786134.676	42.04
TBM 5	STEEL ROD	357964.123	5785962.520	42.69
TBM 6	STEEL ROD	358055.160	5785948.114	42.35
TBM 7	STEEL ROD	358118.940	5785961.211	42.26
TBM 8	STEEL ROD	358167.717	5785925.992	42.11



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Drawn	B.SHADE
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AN	1271285
Designed	C.BUSSET
Date	20/05/2020
AN	2771021
Checked	T.THAVENDRAN
Date	30/09/2020
AN	944064
Approved	T.LIAKOPOULOS
Date	12/01/21
AN	889018

LEGEND	
	STAGE BOUNDARY
	CURRENT STAGE



BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
STAGING PLAN

Drawing No. 18144.2SP01 Rev 2
Sheet No. 03 of 18

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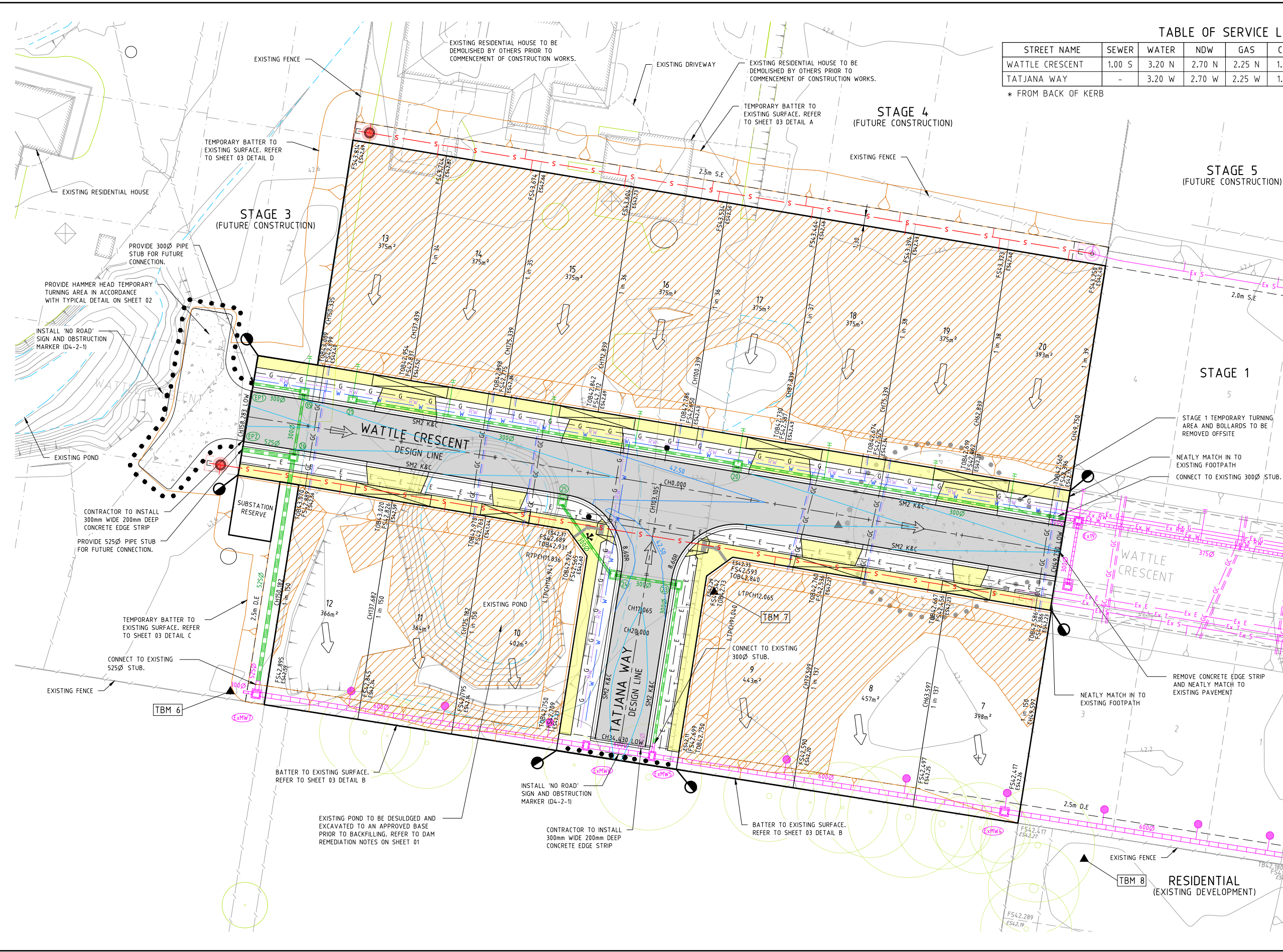


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* FROM BACK OF KERB								

TBM SCHEDULE				
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TBM 3	SPIKE	358146.664	5786168.642	43.10
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TBM 6	STEEL ROD	358055.160	5785948.114	42.35
TBM 7	STEEL ROD	358118.940	5785961.211	42.26
TBM 8	STEEL ROD	358167.717	5785925.992	42.11

NOTE: LOCATION OF TBM FOR TBMS LOCATED OUTSIDE OF SCOPE REFER TO STAGING PLAN.

NOTE: FENCES ALL DAMAGED FENCES TO BE REPLACED TO THE SATISFACTION OF SITE SUPRENTENDENT AND RESPECTIVE LANDOWNERS.

NOTE: END OF PAVEMENT WORKS CONCRETE EDGE STRIP AND AG DRAIN TO BE INSTALLED TO THE END OF ALL PAVEMENT WORKS.

NOTE: EXISTING SERVICES ALL EXISTING SERVICES UNDER NEW AND PROPOSED ROAD PAVEMENT, FOOTPATH AND DRIVEWAYS TO BE FOR BACKFILLED.

NOTE: EXISTING STRUCTURES ALL EXISTING DRAINAGE PITS AND SEWER STRUCTURES WITHIN NEW WORKS ARE TO BE ADJUSTED TO MATCH NEW FINISHED SURFACE LEVELS.

NOTE: TACTILE PAVING TACTILE GROUND SURFACE INDICATORS (TGSIS) ARE SHOWN INDICATIVELY AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH AS/NZS 1428.4:2009.

CAUTION! ALL EXISTING SERVICES IN THE VICINITY OF WORKS SHALL BE PROTECTED AND KEPT IN FUNCTIONAL STATE AT ALL TIMES DURING WORKS.

BEWARE! NBN OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 1800 687 626.

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.

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.

REV	DESCRIPTION	DATE	AMEND	APPD
2	WATTLE CRES ALIGNMENT & SERVICES AMENDED	23/02/21	CB/CB	TL
1	STREET NAMES AMENDED	04/02/21	JB/JB	TL
0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn Date AN 12/06/2020
Designed Date AN 20/05/2020
Checked Date AN 30/09/2020
Approved Date AN 12/01/21
B.SHADE 1271285
C.BLISSET 944064
T.HAVENDRAN
T.LIAKOPOULOS 889018

- LEGEND
- EX W WATER MAIN
 - EX RW RECYCLED WATER MAIN
 - EX G GAS MAIN
 - EX E ELECTRICAL CABLE
 - EX S-O EX. SEWER MAIN & MH
 - EX T EX. COMM. CABLE & PIT
 - EX D EX. DRAIN & PIT
 - SW DRAIN & PIT
 - HOUSE DRAIN PROP. INLET
 - BATTER
 - FINISHED SURFACE LEVEL
 - EX. SURFACE LEVEL
 - TOP OF BATTER LEVEL
 - REGRADE LOT AT MIN 1:50
 - OVERLAND FLOW PATH
 - E ELECTRICITY
 - T TELECOMMUNICATIONS
 - G GAS
 - GC GAS CONDUIT
 - W WATER
 - RW RECYCLED WATER
 - COMBINED WATER & REC. WATER CONDUIT
 - S SEWER MAIN & MANHOLE
 - PSH TBM
 - LIMIT OF WORKS
 - EX. TREE TO REMAIN
 - EX. TREE TO BE REMOVED
 - ASPHALT PAVEMENT
 - FILLING OVER 200mm
 - CONCRETE PATH D/WAY

Coords: MGA Levels: AHD

Scale @ A1/A3 1:250 / 1:500

BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
DETAIL PLAN
Drawing No. 18144.2DP01
Sheet No. 04 of 18
Rev 2

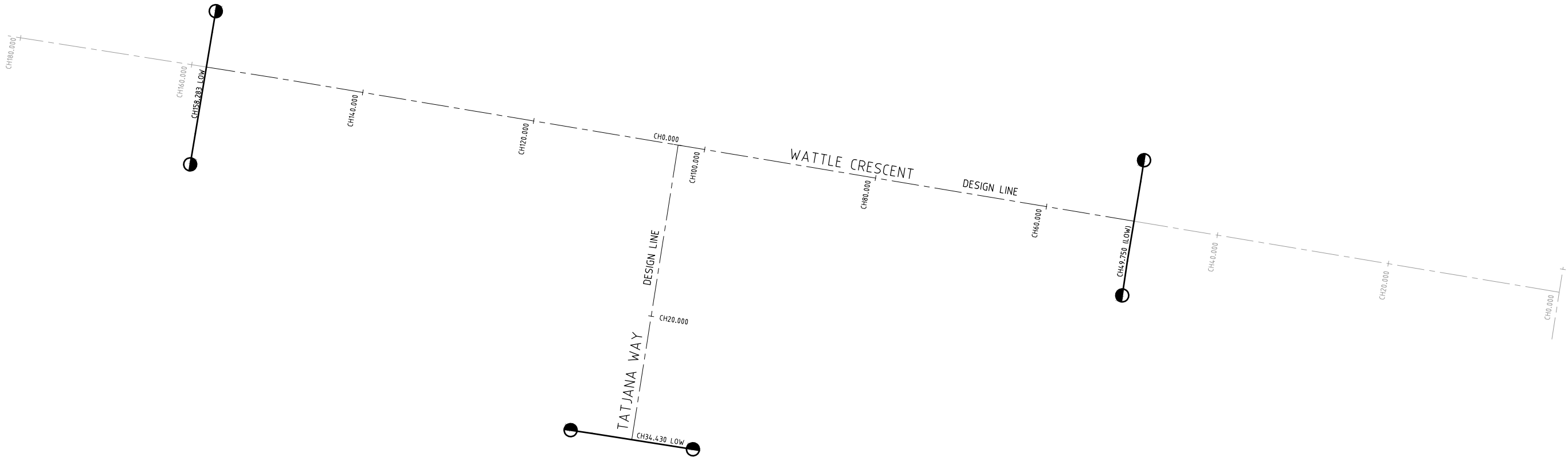
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VICTORIA
T 61 3 9813 7400
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HORIZONTAL ALIGNMENT REPORT FOR WATTLE CRESCENT

POINT TYPE	CHAINAGE	X	COORDINATES Y	Z	BEARING DEG MIN SEC	RADIUS
INTERSECTION POINT	0.000	358213.598	5785958.334	42.113	279°29'00.20"	
STRAIGHT	20.000	358193.871	5785961.630	42.114	279°29'00.20"	
STRAIGHT	40.000	358174.145	5785964.925	42.255	279°29'00.20"	
STRAIGHT	49.750	358164.528	5785966.531	42.303	279°29'00.26"	
STRAIGHT	60.000	358154.418	5785968.220	42.355	279°29'00.20"	
STRAIGHT	80.000	358134.691	5785971.515	42.455	279°29'00.20"	
STRAIGHT	100.000	358114.965	5785974.810	42.555	279°29'00.20"	
STRAIGHT	120.000	358095.238	5785978.106	42.655	279°29'00.20"	
STRAIGHT	140.000	358075.511	5785981.401	42.755	279°29'00.20"	
INTERSECTION POINT	149.926	358065.720	5785983.036	42.804	278°56'05.25"	
STRAIGHT	158.283	358057.466	5785984.334	42.846	278°56'05.25"	
STRAIGHT	160.000	358055.769	5785984.301	42.855	278°56'05.25"	
STRAIGHT	180.000	358036.012	5785987.707	42.955	278°56'05.25"	
TANGENT-CURVE	194.594	358021.595	5785989.974	43.027	278°56'05.25"	10.000
CURVE	195.000	358021.195	5785990.045	43.030	281°15'49.21"	10.000
CURVE	197.500	358018.830	5785990.833	43.042	295°35'15.41"	10.000
CURVE	200.000	358016.732	5785992.182	43.055	309°54'41.61"	10.000
CURVE	202.500	358015.034	5785994.008	43.067	324°14'07.81"	10.000
CURVE	205.000	358013.841	5785996.197	43.080	338°33'34.01"	10.000
CURVE	207.500	358013.226	5785998.613	43.092	352°53'00.22"	10.000
CURVE	210.000	358013.228	5786001.107	43.105	7°12'26.42"	10.000
CURVE-TANGENT	210.302	358013.270	5786001.406	43.106	8°56'10.00"	10.000
STRAIGHT	220.000	358014.776	5786010.986	43.155	8°56'10.00"	
STRAIGHT	240.000	358017.883	5786030.743	43.255	8°56'10.00"	

HORIZONTAL ALIGNMENT REPORT FOR TATJANA WAY

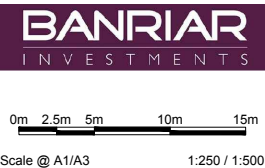
POINT TYPE	CHAINAGE	X	COORDINATES Y	Z	BEARING DEG MIN SEC	RADIUS
INTERSECTION POINT	0.000	358111.902	5785975.322	42.570	188°56'10.43"	
STRAIGHT	20.000	358108.795	5785955.565	42.641	188°56'10.43"	
INTERSECTION POINT	34.430	358106.554	5785941.310	42.638	188°56'10.43"	



REV	DESCRIPTION	DATE	AMEND	APPD
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0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn	B.SHADE
Date	12/06/2020
AN	1271285
Designed	C.BLISSET
Date	20/05/2020
AN	2771021
Checked	T.THAVENDRAN
Date	30/09/2020
AN	944064
Approved	T.LIAKOPOULOS
Date	12/01/21
AN	889018

LEGEND
— — — PROPOSED CENTRELINE
— — — PROPOSED CHAINAGE
— — — FUTURE/EXISTING CENTRELINE
— — — FUTURE/EXISTING CHAINAGE
● — ● LIMIT OF WORKS



BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
SETOUT DETAILS

Drawing No. 18144.2SOP01 Rev 2



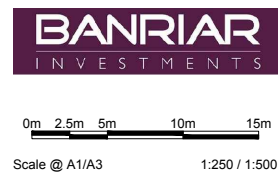
CONSTRUCTION

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18144.2LM01.dwg - LM01
Date/Time: Tue Feb 23, 2021 - 11:19am ---cassab---

REV	DESCRIPTION	DATE	AMEND	APP'D
2	WATTLE CRES ALIGNMENT & SERVICES AMENDED	23/02/21	CB/CB	TL
1	STREET NAMES AMENDED	04/02/21	JB/JB	TL
0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn Date AN 12/06/2020 1271285
Designed Date AN C.BLISSET 20/05/2020 944064
Checked Date AN T.THAVENDRAN 30/09/2020 944064
Approved Date AN T.LIAKOPOULOS 12/01/21 889018
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LEGEND	
	300mm WIDE GIVE WAY HOLDING LINE
	150mm WIDE CONTINUITY LINE
	100mm WIDE BARRIER LINE
	RRPM'S (SPACED AT 6m c/c UNLESS NOTED OTHERWISE)
	DENOTES TACTILE GROUND INDICATORS IN ACCORDANCE WITH A5, 1428
	STREET SIGN REFERENCE
	LIMIT OF WORKS



**BEACONSFIELD WATTLE ESTATE
STAGE 2**
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
SIGNAGE AND LINEMARKING PLAN

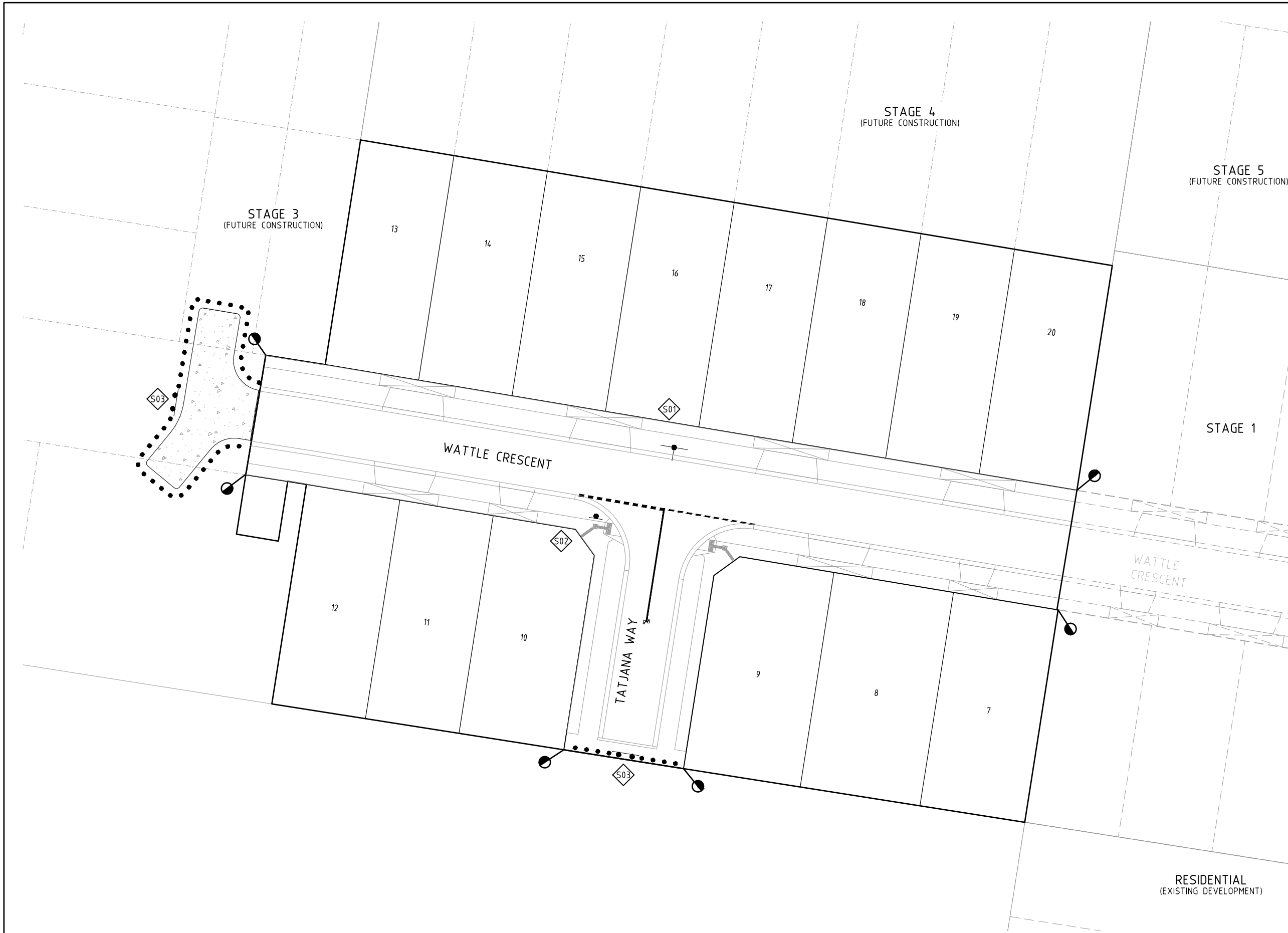
Drawing No. 18144.2LM01 Rev 2
Sheet No. 07 of 18

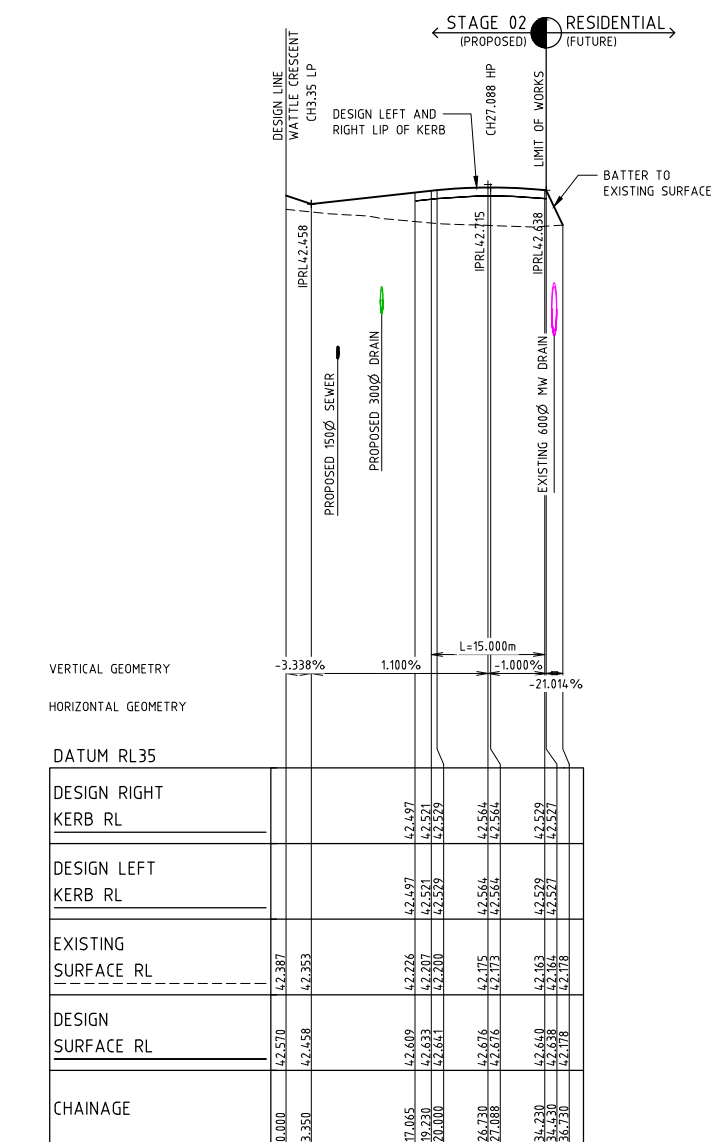


CONSTRUCTION

- NOTES: LINEMARKING**
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 - REFER TO GENERAL NOTE No.29.
 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.

SIGN SCHEDULE	
SIGN	REF
STREET NAME SIGN 	S01
GIVE WAY R1-2	S02
NO ROAD D4-2-1 & 'NO ROAD' SIGN	S03





LONGITUDINAL SECTION TATJANA WAY DESIGN LINE

Drawn	B. SHADE	LEGEND			
Date	12/06/2020	-----	EXISTING SURFACE	-----	RIGHT LIP (PREVIOUS)
AN	1271285	=====	FINISHED SURFACE	-----	RIGHT LIP (FUTURE)
Designed	C. BLISSSET	-----	FIN. SUR. (FUTURE STG.)		PROP. DRAIN
Date	20/05/2020	-----	FIN. SUR. (PREVIOUS STG.)		PROP. SEWER
AN	2771021	-----	LEFT LIP OF KERB		EX. HW DRAIN
Checked	T. THAVENDRAN	-----	LEFT LIP (PREVIOUS)		FUT. DRAIN
Date	30/09/2020	-----	LEFT LIP (FUTURE)		
AN	944064	-----	RIGHT LIP OF KERB		
Approved	T. LIAKOPOULOS				
Date	12/01/21				
AN	889018				

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LEGEND

----- EXISTING SURFACE ----- FINISHED SURFACE - . - . - FIN. SUR. (FUTURE STG.) ----- FIN. SUR. (PREVIOUS STG.) ----- LEFT LIP OF KERB ----- LEFT LIP (PREVIOUS) - . - . - LEFT LIP (FUTURE) ----- RIGHT LIP OF KERB	----- RIGHT LIP (PREVIOUS) ----- RIGHT LIP (FUTURE)  PROP. DRAIN  PROP. SEWER  EX. MW DRAIN  FUT. DRAIN
--	---

BANRIAR
INVESTMENTS

H 0m 5m 10m 20m 30m
V 0m 0.5m 1m 2m 3m
Scale @ A1/A3 H1:500/1000 V1:50/100



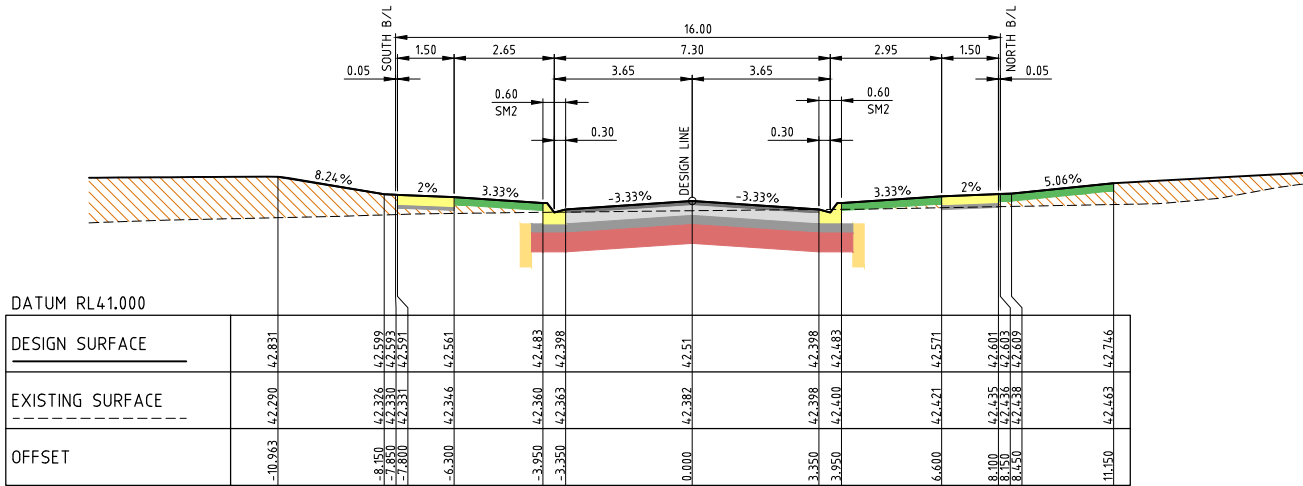
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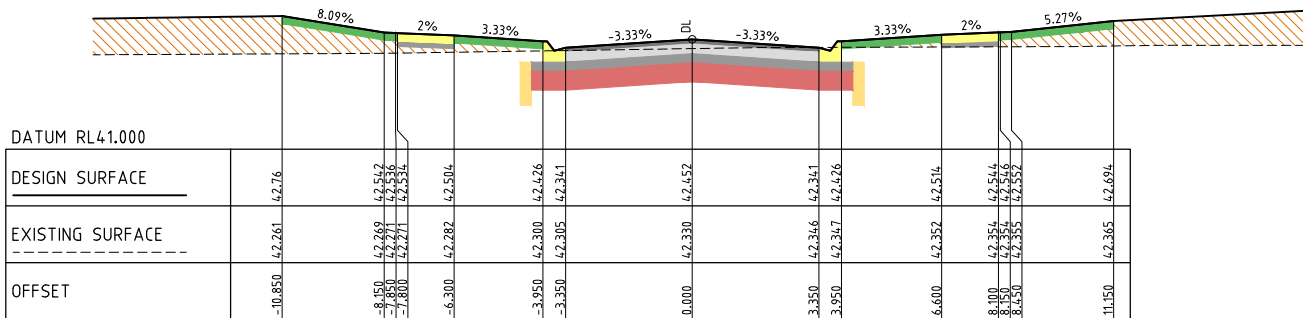
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E info@dceng.com.au

CONSTRUCTION

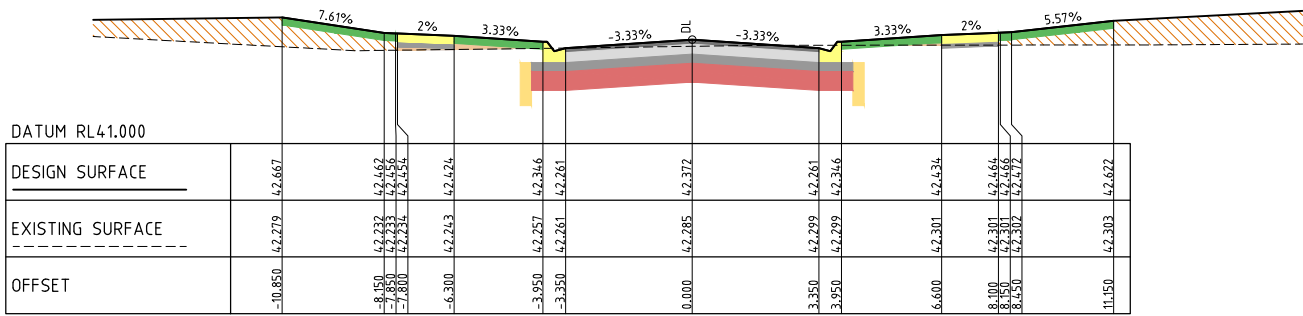
NOTE: TYPE A STRUCTURAL FILL
TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH
THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS
SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE
FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE
MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1
SUPERVISION IS MAINTAINED PER AS3798-2007



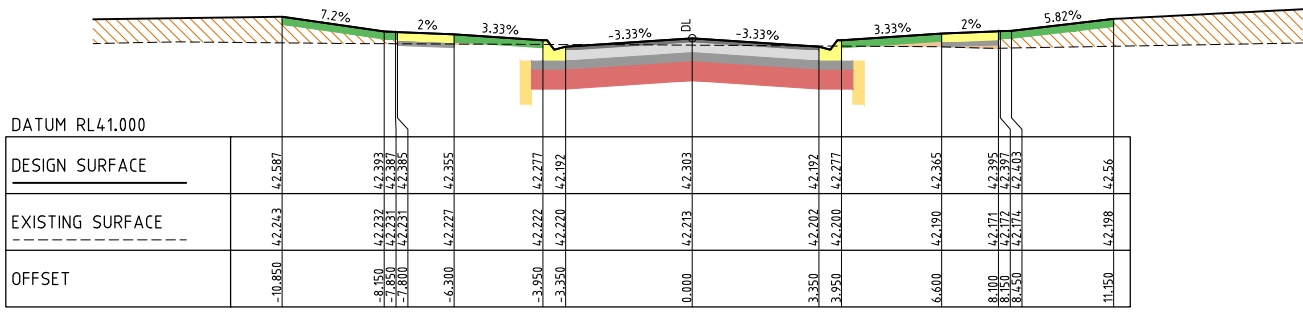
CH 91.040



CH 79.599

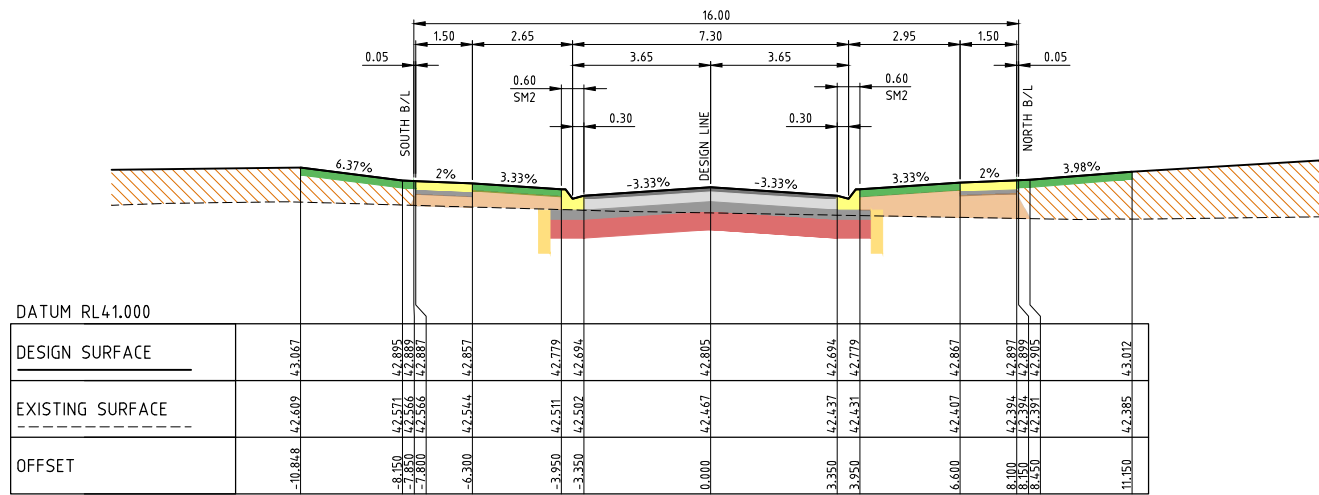


CH 63.597

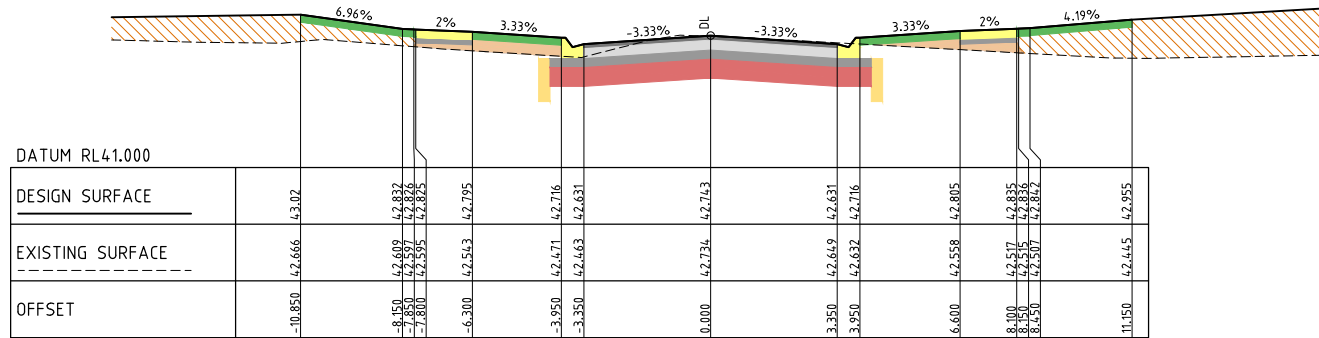


CH 49.750

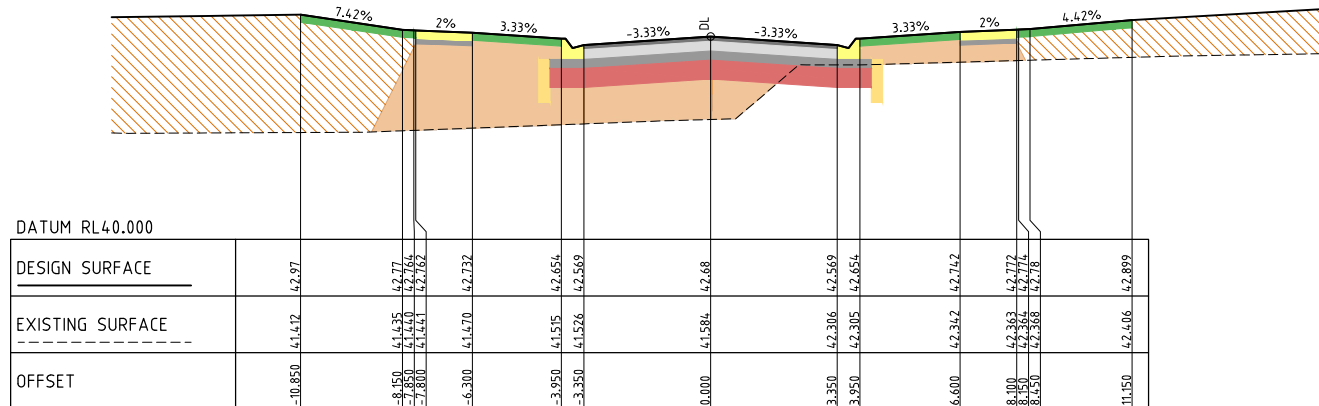
WATTLE CRESCENT



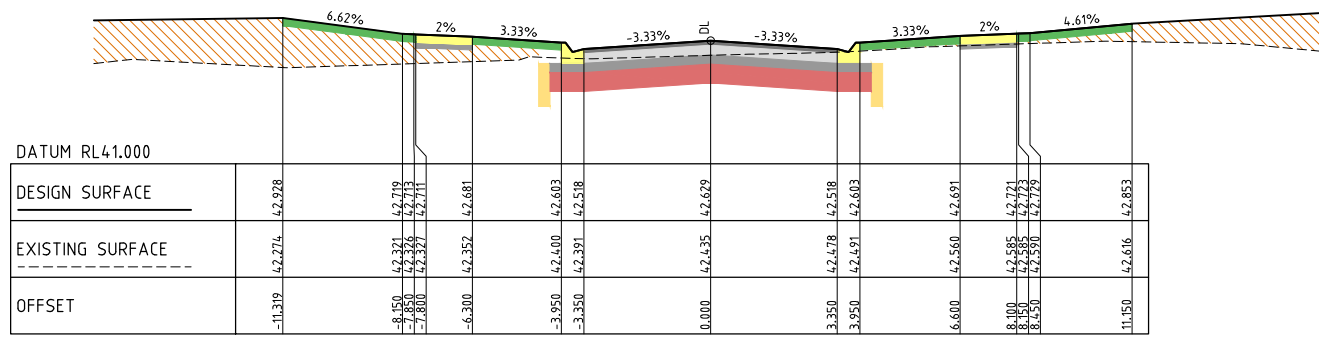
CH 150.182



CH 137.682



CH 125.182



CH 114.941

WATTLE CRESCENT

REV	DESCRIPTION	DATE	AMEND	APPD
2	WATTLE CRES ALIGNMENT & SERVICES AMENDED	23/02/21	CB/CB	TL
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0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn
Date
AN
12/06/2020
1271285
Designed
Date
AN
20/05/2020
2771021
Checked
Date
AN
30/09/2020
944064
Approved
Date
AN
12/01/21
889018

LEGEND
ASPHALT
BASE
SUBBASE
STABILISED SAND
AG DRAIN
CONCRETE
LANDSCAPING



FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH
APPROVED FILL MATERIAL.
DENOTES STRUCTURAL FILL COMPACTED TO LEVEL 1 REQUIREMENTS

EXISTING SURFACE
FINISHED SURFACE
PROP. DRAINAGE

BANRIAR
INVESTMENTS



Coords: MGA Levels: AHD

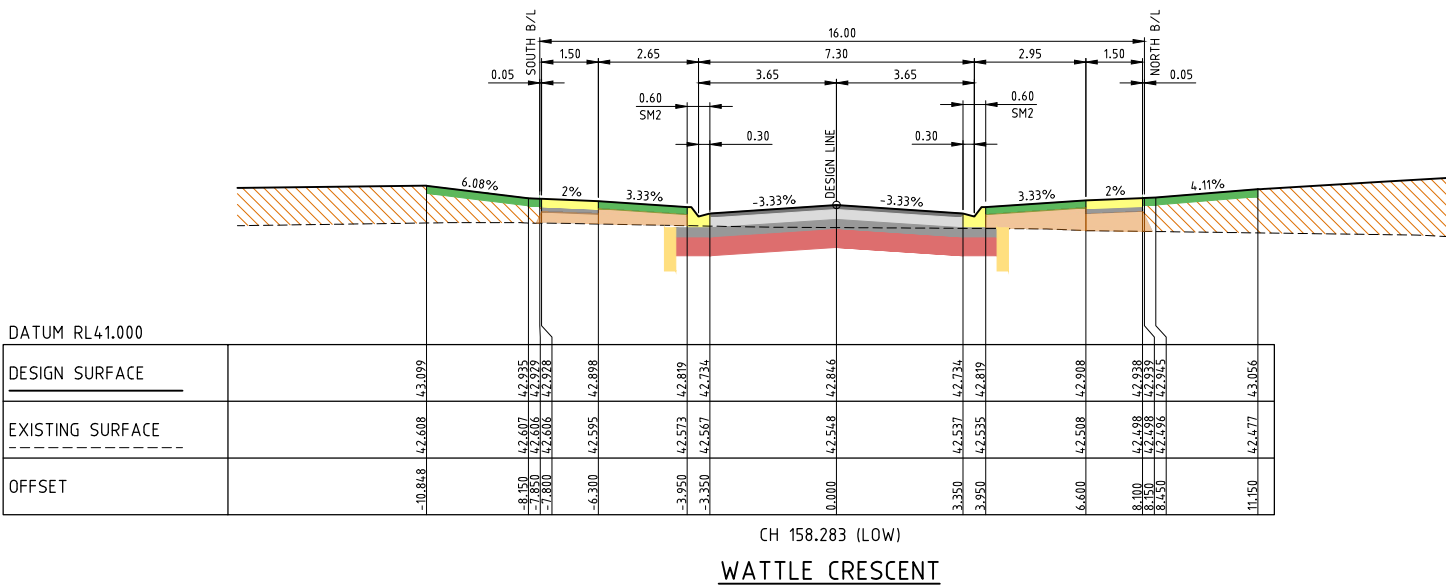
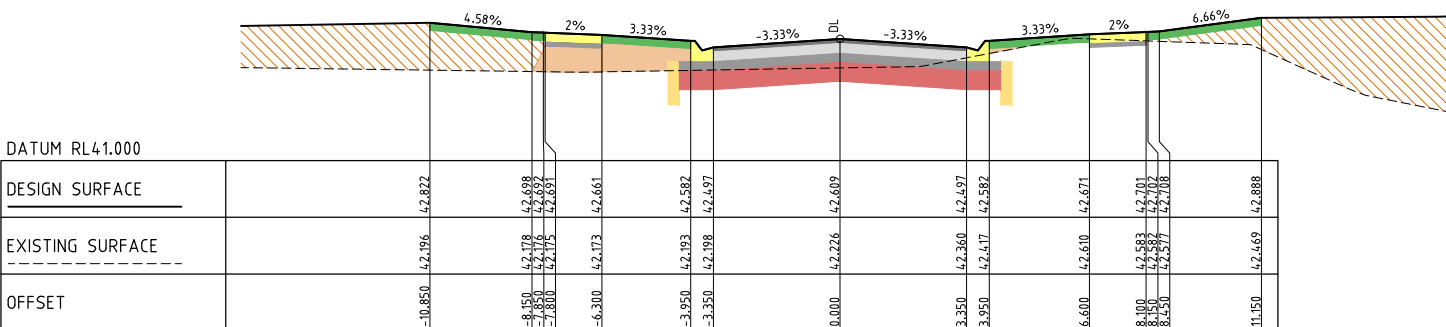
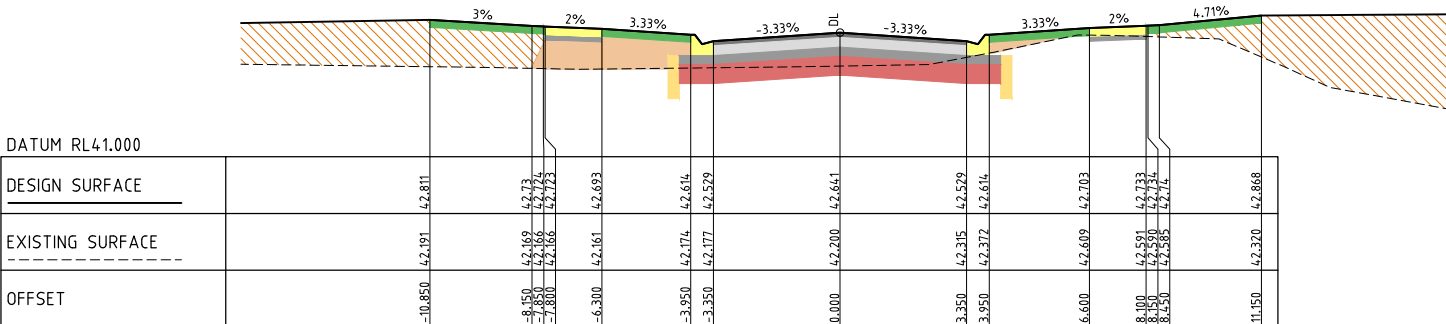
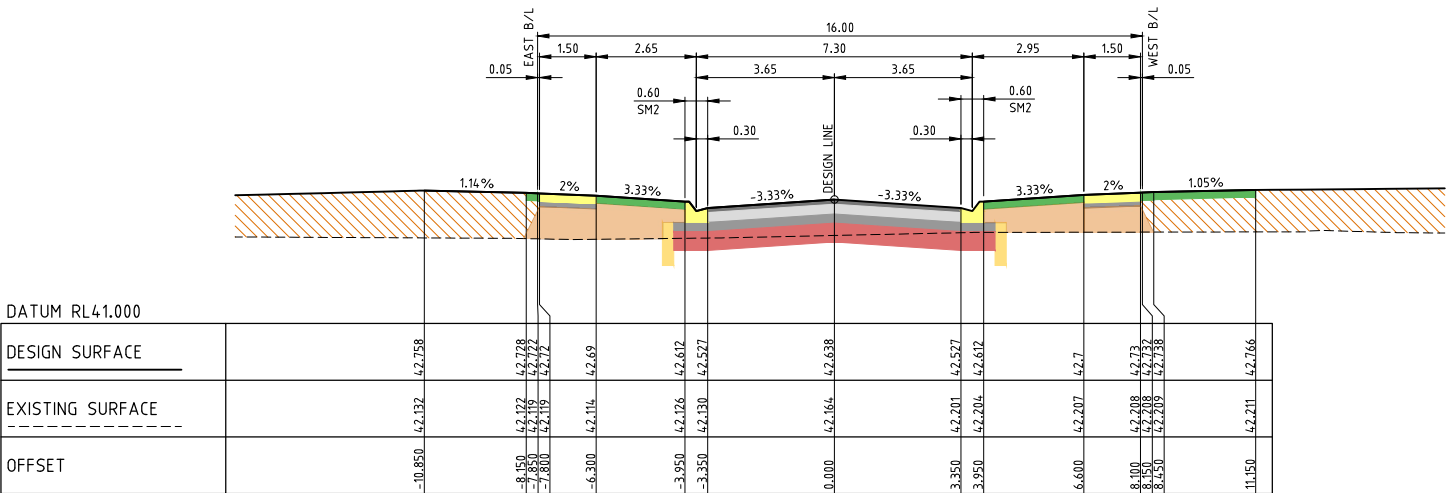
H 0m 1m 2m 4m 6m
V 0m 0.5m 1m 2m 3m
Scale @ A1/A3 H1:100/200 V1:50/100

BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
CROSS SECTIONS
SHEET 01 OF 02
Drawing No. 18144.2XS01
Sheet No. 09 of 18

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CONSTRUCTION

NOTE: TYPE A STRUCTURAL FILL
TYPE A STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH
THE REQUIREMENTS OF TABLE 204.041 OF THE VICROADS
SPECIFICATION SECTION 204 FOR EARTHWORKS AND SHALL BE
FREE OF TOPSOIL, DELETERIOUS MATERIAL AND PERISHABLE
MATTER. ALL FILL AREAS MUST ENSURE LEVEL 1
SUPERVISION IS MAINTAINED PER AS3798-2007



CH 158.283 (LOW)
WATTLE CRESCENT

CH 17.065
TATJANA WAY

REV	DESCRIPTION	DATE	AMEND	APPD
2	WATTLE CRES ALIGNMENT & SERVICES AMENDED	23/02/21	CB/CB	TL
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0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn
Date
AN
12/06/2020
1271285
Designed
Date
AN
20/05/2020
2771021
Checked
Date
AN
30/09/2020
944064
Approved
Date
AN
12/01/21
889018
T.HAVENDRAN
T.LIAKOPOULOS
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LEGEND
ASPHALT
BASE
SUBBASE
STABILISED SAND
AG DRAIN
CONCRETE
LANDSCAPING



FILLING COMPACTED TO AS3798-2007 LEVEL 1 REQUIREMENTS WITH APPROVED FILL MATERIAL.
DENOTES STRUCTURAL FILL COMPACTED TO LEVEL 1 REQUIREMENTS

EXISTING SURFACE
FINISHED SURFACE
PROP. DRAINAGE

BANRIAR
INVESTMENTS



H 0m 1m 2m 4m 6m
V 0m 0.5m 1m 2m 3m
Scale @ A1/A3 H1:100/200 V1:50/100

BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
CROSS SECTIONS
SHEET 02 OF 02
Drawing No. 18144.2XS02
Sheet No. 10 of 18

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CONSTRUCTION

Drawing File: C:\124_Sydney\data\SYNERGY-HE\18144.2-Beaconsfield Wattle Estate - Stage 2_2000\DESIGN\01_A040\04_DR\18144.2DR01.dwg - DR01
Date/Time: Tue Feb 23, 2021 - 11:20am ---cossab---

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.

VELOCITY (m/s) 1.178 0.976
PIPE GRADE VELOCITY 1.108 1.108
PIPE GRADE % 0.500% 0.500%
PIPE FLOW (m³/s) 0.051 0.024
PIPE CAPACITY AT GRADE 0.078 0.078
PIPE SIZE (mm) 300 300

DATUM		31.000	
DEPTH TO INVERT	1.378 4.1456 4.1493	1.303	1.253 4.1678 4.1778
HYDRAULIC GRADE LINE		4.1591 4.1661	4.1678 4.1778
INVERT LEVEL	4.0905 4.0980	4.1208 4.1258	4.1515 4.1618
DESIGN SURFACE LEVEL	42.283	42.511	42.768
EXISTING SURFACE LEVEL	42.202	42.409	42.438
CHAINAGE	76.572 45.544	122.116 51.499	173.615

0.911	0.914	0.902
1.448	1.687	2.143
0.850%	1.150%	1.850%
0.009	0.007	0.004
0.102	0.119	0.151
300	300	300
31.000		
40.679 4.183 1.746	4.1209 1.596	4.1209 1.551
42.616 4.1209 1.596	4.1209 1.551	4.1209 1.551
42.123	4.1043 4.1212	4.1205 4.1418
22.817	4.1043 4.1212	4.1205 4.1418
22.817 8.800	4.1043 4.1212	4.1205 4.1418
31.617 11.642	4.1043 4.1212	4.1205 4.1418
39.820 4.1424 1.241	4.1043 4.1212	4.1205 4.1418
43.259 42.385 42.621	4.1043 4.1212	4.1205 4.1418

1.716	1.378
1.658	1.287
0.550%	0.333%
0.208	0.189
0.359	0.279
525	525
31.000	
40.990 4.1319 1.744	4.1405 1.669
42.735 4.1065	4.1547 1.560
42.552	4.1290 1.510
10.226 4.1288	4.1636 1.524
12.691 4.1290	4.1636 1.524
19.508 4.1312	4.1649 1.524
42.578 4.1312	4.1657

0.941	1.094
1.108	1.360
0.500%	0.750%
0.021	0.021
0.078	0.096
300	300
31.000	
41.240 4.1547 1.560	4.1654 1.448
42.800 4.1352	4.1636 1.404
42.464 4.1396	4.1638 1.354
8.800 4.1446	4.1650 1.335
8.800 4.1647	4.1643 1.335
15.617 4.1497	4.1644 1.335
42.832 4.1497	4.1644 1.335

REV	DESCRIPTION	DATE	AMEND	APP'D
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0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn B.SHADE
Date 12/06/2020
AN 1271285
Designed C.BUSSET
Date 20/05/2020
AN 944064
Checked T.THAVENDRAN
Date 30/09/2020
AN 944064
Approved T.LIAKOPOULOS
Date 12/01/21
AN 889018

LEGEND
--- EXISTING SURFACE
--- FINISHED SURFACE
--- PROPOSED DRAIN
--- EXISTING DRAIN
--- HYDRAULIC GRADE LINE
--- CRUSHED ROCK BACKFILL
--- PROPOSED SEWER

BANRIAR
INVESTMENTS



Scale @ A1/A3 H1:500/1000 V1:50/100

BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
DRAINAGE LONGITUDINAL SECTIONS

Drawing No. 18144.2DR01 Rev 2
Sheet No. 11 of 18

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

CONSTRUCTION

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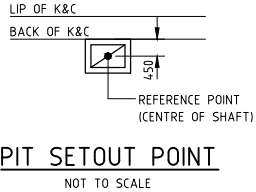
2	WATTLE CRES ALIGNMENT & SERVICES AMENDED	23/02/21	CB/CB	TL	
1	STREET NAMES AMENDED	04/02/21	JB/JB	TL	
0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL	
REV	DESCRIPTION	DATE	AMEND	APP'D	

Drawn B.SHADE
Date 12/06/2020
AN 1271285
Designed C.BLISSET
Date 20/05/2020
AN 2771021
Checked T.THAVENDRAN
Date 30/09/2020
AN 944064
Approved T.LIAKOPOULOS
Date 12/01/21
AN 889018

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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.

PIT SCHEDULE																	
PIT NAME	PIT TYPE	PIT EASTING	PIT NORTHING	LID WIDTH	LID LENGTH	BASE WIDTH	BASE LENGTH	INLET DIA.	INLET INV LEV	OUTLET DIA.	OUTLET INV LEV	PIT SETOUT RL	PIT DEPTH	PIT DETAIL	STEP IRONS	HEAVY DUTY	FURTHER COMMENTS
ExMW5	JP	368110.728	5785939.589	600	900	900	900	600	40.729	600	40.679	42.616	1.937	EDCM 605	EDCM 609		CONNECT TO ExDN300 PIPE STUB
Ex19	GSEP	368166.982	5785970.582	600	900			300	40.829	375	40.905	42.283	1.378	EDCM 603	EDCM 609		CONNECT TO ExDN375 PIPE STUB
ExMW7	JP	368058.549	5785947.639	600	900			525	41.065	600	40.990	42.736	1.744	EDCM 605	EDCM 609		CONNECT TO ExDN525 PIPE STUB
20	GSEP	368122.060	5785978.086	600	900			300	41.258	300	41.208	42.511	1.303	EDCM 603	EDCM 609	-	
21	JP	368071.264	5785986.568	600	900					300	41.515	42.768	1.253	EDCM 605	EDCM 609	-	
23	GSEP	368114.281	5785962.128	600	900			300	41.043	300	41.023	42.574	1.551	EDCM 603	EDCM 609	-	
24	GSEP	368105.588	5785963.495	600	900			300	41.164	300	41.144	42.562	1.418	EDCM 603	EDCM 609	-	
25	GSEP	368098.911	5785973.031	600	900					300	41.380	42.621	1.241	EDCM 603	EDCM 609	-	
26	GSEP	368063.478	5785978.950	600	900			525	41.290	525	41.240	42.800	1.560	EDCM 603	EDCM 609		
35	GSEP	368064.928	5785987.630	600	900			300	41.352								
EP1	EP	368058.193	5785988.686	-	-			300	41.446	300	41.396	42.800	1.404	EDCM 603	EDCM 609		TEMPORARY END POINT
EP2	EP	368056.741	5785979.994	-	-			525	41.497	525	41.312	42.834	1.524	-	-		TEMPORARY END POINT



- NOTES: DRAINAGE PITS**
- EASTING, NORTHING SETOUT TO CENTRE OF PIT COVER.
 - SETOUT LEVEL TO PIT COVER LEVEL.
 - EASTING, NORTHING FOR ENDWALL SETOUT POINTS QUOTED TO PIPE INVERT CENTRELINE.
 - ALL PIT COVERS TO BE IN ACCORDANCE WITH COUNCIL AND VPA REQUIREMENTS AND SPECIFICATIONS.
 - ALL TEMPORARY JUNCTION PITS (JP) TO BE PROVIDED WITH KEYED CONSTRUCTION JOINTS (K.C.J) FOR FUTURE SEP CONVERSION.
 - STEP IRONS REQUIRED FOR ALL PITS GREATER THAN 1000mm IN DEPTH.
 - PIT FLOOR TO BE SHAPED TO MATCH LOWER HALF OF PIPE WHERE DROPS LESS THAN 50mm.
 - ALL DRAINAGE WORKS ARE TO BE CONSTRUCTED AND EDCM TO VICTORIAN PLANNING AUTHORITY (VPA) SPECIFICATIONS.
 - PIT BASE TO BE SHAPED WITH MASS CONCRETE FOR SMOOTH HYDRAULIC FLOW.
 - ALL STORMWATER DRAINS ARE TO BE CLASS '2' RC UNLESS OTHERWISE SHOWN. ALL PIPES UP TO AND INCLUDING 750mm IN DIAMETER SHALL BE RUBBER RING JOINTED. PIPES ABOVE THIS SIZE MAY BE FLUSH JOINTED WITH EXTERNAL SEALING BANDS.
 - ALL HAUNCHED PITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH VPA REQUIREMENTS AND EDCM STD DRAWINGS.

NOTE: STUBS
ALL STUBS FOR FUTURE EXTENSIONS TO BE SOCKETED UPSTREAM AND BLANKED OFF.

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.



Coords: MGA Levels: AHD



Scale @ A1/A3

As Shown

**BEACONSFIELD WATTLE ESTATE
STAGE 2**
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
PIT SCHEDULE

Drawing No. 18144.2PIT01 **Rev 2**
Sheet No. 12 of 18



CONSTRUCTION

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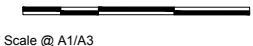
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0	CONSTRUCTION ISSUE	12/01/21	JB/JB	TL

Drawn Date AN 12/06/2020 1271285
Designed Date AN C.BUSSET 20/05/2020 2771021
Checked Date AN T.THAUENDRAN 30/09/2020 944064
Approved Date AN T.LIAKOPOULOS 12/01/21 889018

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PLAN OF SUBDIVISION		PS 805058 F		
LOCATION OF LAND PARISH : PAKENHAM TOWNSHIP : SECTION : CROWN ALLOTMENT : CROWN PORTION : 31 (Part) TITLE REFERENCE : C/T. Vol. 1114/5 Fol. 184 LAST PLAN REFERENCE : LOT 2 ON PS 542776 L POSTAL ADDRESS : No.198 KENILWORTH AVENUE (At time of subdivision) BEACONSFIELD, 3809. MGA94 Co-ordinates : (of approx. centre of land in plan) E 358 119 ZONE : 55 N 5786 013		Council Name: Cardinia Shire Council SPEAR Reference Number: S152722E		
VESTING OF ROADS AND/OR RESERVES IDENTIFIER COUNCIL/BODY/PERSON ROAD R-1 CARDINIA SHIRE COUNCIL		NOTATIONS LOT NUMBERS 1-6 AND LOT NUMBERS 21-80 HAVE BEEN OMITTED FROM THIS PLAN.		
NOTATIONS DEPTH LIMITATION : Does not apply.				
OTHER PURPOSE OF PLAN To create a Restriction. (See Sheets 4 & 5)				
Survey: This plan is based on survey. This survey has been connected to permanent marks no.(s) 20 & 535 in Proclaimed Survey Area No. 71 STAGING: This is not a staged subdivision Planning Permit No. T 170521				
EASEMENT INFORMATION				
LEGEND: A - Appurtenant Easement E - Encumbering Easement R - Encumbering Easement (Road)				
Easement Reference	Purpose	Width (metres)	Origin	Land Benefited/In Favour Of
E-1	DRAINAGE	2.50	THIS PLAN	CARDINIA SHIRE COUNCIL
E-2	SEWERAGE	2.50	THIS PLAN	SOUTH EAST WATER CORPORATION
RODNEY AUJARD & ASSOCIATES <i>Licensed Land Surveyors</i> Level 1, 325 Camberwell Road, CAMBERWELL, 3124. Ph. 9813 2222 Fax. 9813 2244 aujard@bigpond.net.au		Surveyors Ref. 18885/C		Original Sheet Size : A3 SHEET 1 OF 5
		Digitally signed by: Geoff Peter Sutherland, Licensed Surveyor, Surveyor's Plan Version (4), 28/01/2021, SPEAR Ref: S152722E		

PS 805058 F	
RODNEY AUJARD & ASSOCIATES <i>Licensed Land Surveyors</i> Level 1, 325 Camberwell Road, CAMBERWELL, 3124. Ph. 9813 2222 Fax. 9813 2244 aujard@bigpond.net.au	
Scale 1:800	8 0 8 16 24 32 40 Lengths are in metres
Digitally signed by: Geoff Peter Sutherland, Licensed Surveyor, Surveyor's Plan Version (4), 28/01/2021, SPEAR Ref: S152722E	
Surveyors Ref. 18885/C	
Original Sheet Size : A3	SHEET 2



Scale @ A1/A3

BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
PLAN OF SUBDIVISION
SHEET 01 OF 02
Drawing No. 18144.2POS01 Rev 2
Sheet No. 13 of 18



CONSTRUCTION

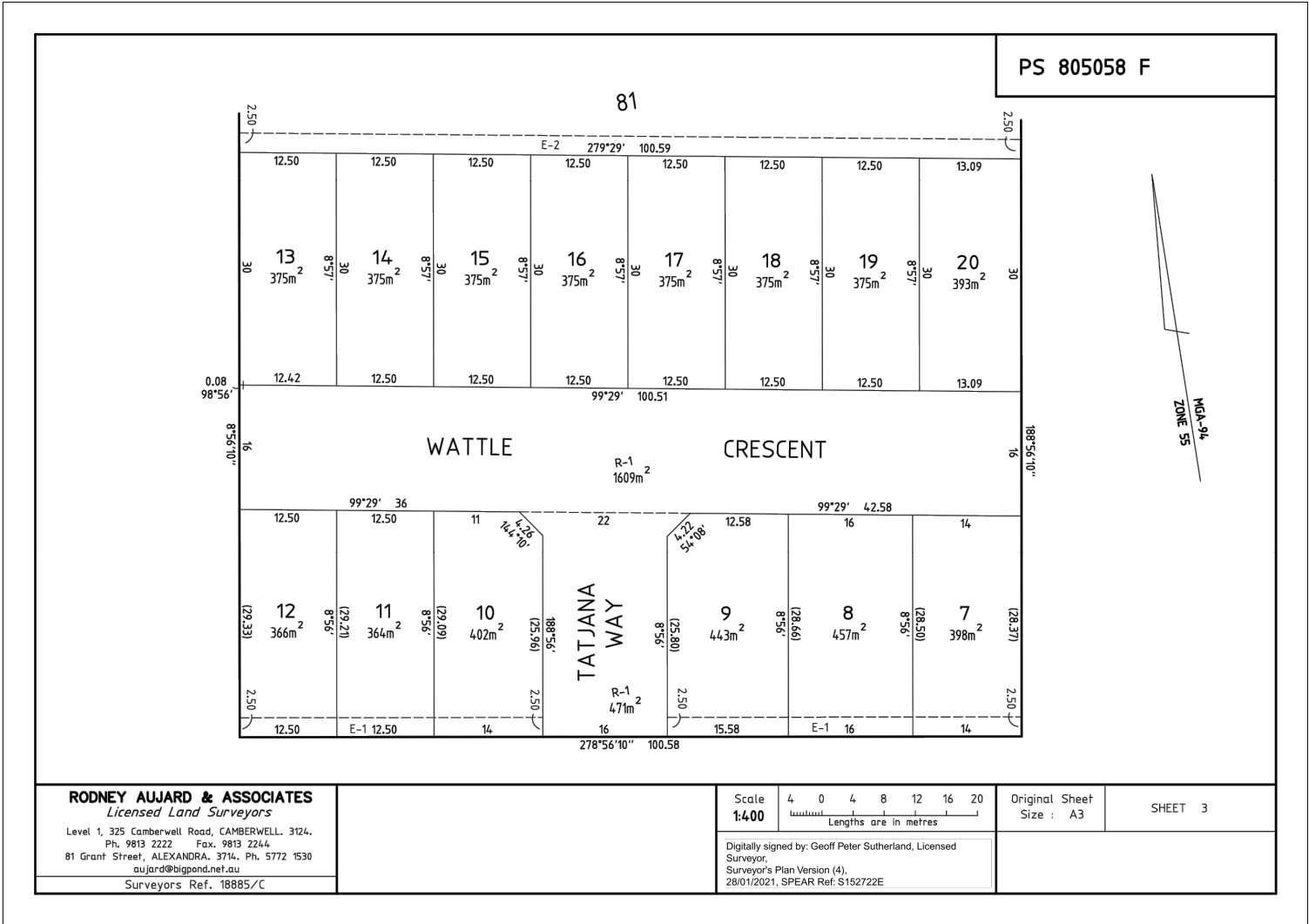
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944064
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12/01/21
889018

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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.



BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
CARDINIA SHIRE COUNCIL
PLAN OF SUBDIVISION
SHEET 02 OF 02
Drawing No. 18144.2POS02 **Rev 2**
Sheet No. 14 of 18

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CONSTRUCTION

BANRIAR
INVESTMENTS



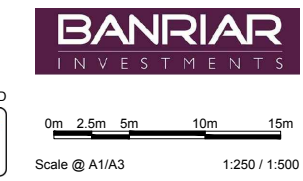
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30/09/2020
944064
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AN
T.LIAKOPOULOS
12/01/21
889018

LEGEND
ES20.06 EXISTING SURFACE LEVEL
FS21.65 FINISHED SURFACE LEVEL
TOB21.65 TOP OF BATTER
REGRADE LOT (MIN 1:150)
LIMIT OF WORKS
FILLING OVER 200mm
BATTER



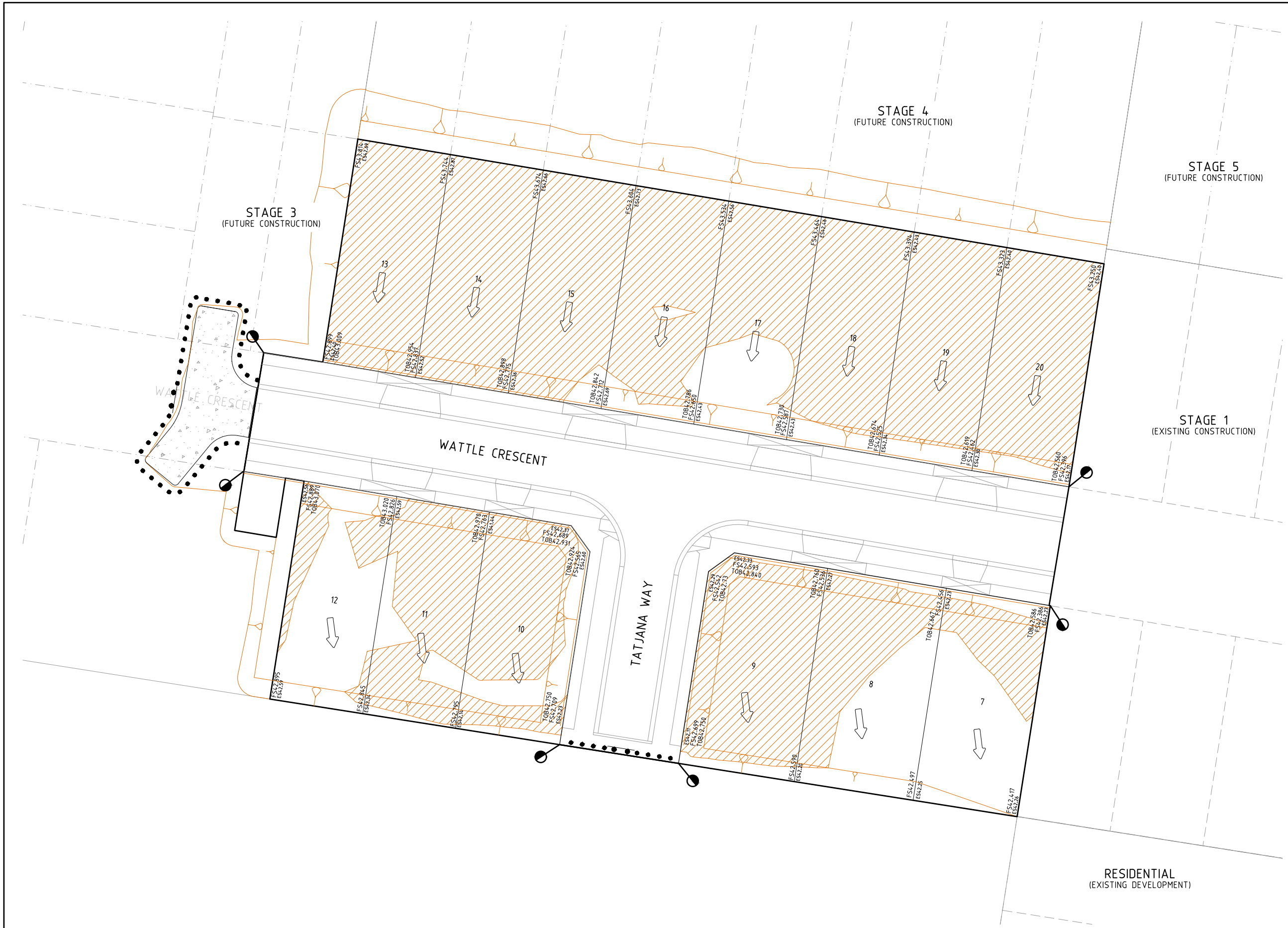
BEAconsfield WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEAconsfield
CARDINIA SHIRE COUNCIL
FILL PLAN
Drawing No. 18144.2FP01 Rev 2
Sheet No. 15 of 18



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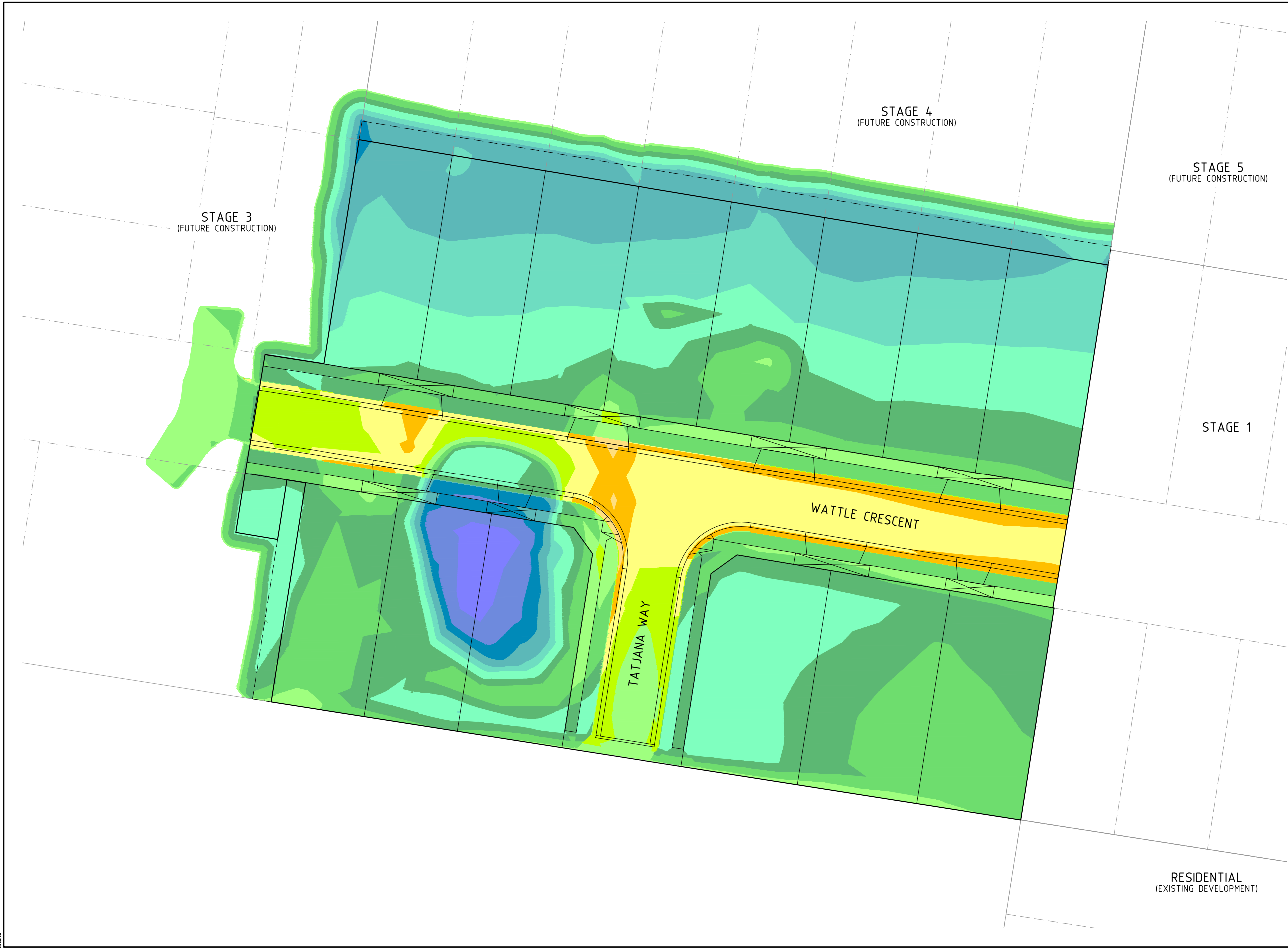
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E info@dceeng.com.au

CONSTRUCTION



NOTES: FILL PLAN
1. 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.
2. THIS PLAN DOES NOT SHOW ANY OTHER FILL WHICH MAY HAVE BEEN PLACED ON THE LAND PRIOR TO THE CIVIL WORKS BEING UNDERTAKEN.
3. THIS PLAN HAS BEEN PREPARED FOR THE PURPOSE OF CONSTRUCTING SUBDIVISIONAL WORKS AND IS NOT A RECORD OF 'AS BUILT DETAILS'.
4. FILLING SHOWN LESS THAN 300mm DEEP IS GRADED OR SPREAD OVER ALLOTMENTS TO CORRECT MINOR SURFACE IRREGULARITIES SUCH AS FURROWS ETC AND LOT GRADING.
5. 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.
6. THE AREA MARKED THUS [diagonal hatching] ON THIS PLAN INDICATES FILL DEEPER THAN 200mm PLACED ON ALLOTMENTS.
7. THE EXTENT OF AND DEPTH OF FILL MUST BE CONFIRMED BY A PROPER GEOTECHNICAL INVESTIGATION BY AN EXPERIENCED PRACTITIONER.

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Date/Time: Tue Feb 23, 2021 - 11:20am ---cassab---



STRIPPING VOLUME	
STRIPPING SURFACE AREA	8,800m ²
STRIPPING DEPTH	0.15m
STRIPPING VOLUME	1,320m ³

FILL VOLUME	
	VOLUME (m ³)
FILL IN ROAD RESERVE	400
FILL IN POND	515
FILL IN LOTS	4,006
TOTAL FILL	4,921
VOLUME COMPARISON IS BETWEEN THE EXISTING SURFACE TIN STRIPPED 0.15m & THE BOXING SURFACE TIN	

CUT/FILL VOLUME	
	VOLUME (m ³)
TOTAL CUT	-338
TOTAL FILL	4,921
BALANCE	4,583
VOLUME COMPARISON IS BETWEEN THE EXISTING SURFACE TIN STRIPPED 0.15m & THE BOXING SURFACE TIN	

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30/09/2020
944064
Approved
Date
AN
T.LIAKOPOULOS
12/01/21
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LEGEND

CUT: 0.0m TO 0.2m	CUT: 1.6m TO 1.8m	FILL: 0.0m TO 0.2m	FILL: 1.6m TO 1.8m
CUT: 0.2m TO 0.4m	CUT: 1.8m TO 2.0m	FILL: 0.2m TO 0.4m	FILL: 1.8m TO 2.0m
CUT: 0.4m TO 0.6m	CUT: 2.0m TO 3.0m	FILL: 0.4m TO 0.6m	FILL: 2.0m TO 3.0m
CUT: 0.6m TO 0.8m	CUT: 3.0m TO 4.0m	FILL: 0.6m TO 0.8m	FILL: 3.0m TO 4.0m
CUT: 0.8m TO 1.0m	CUT: 4.0m TO 5.0m	FILL: 0.8m TO 1.0m	FILL: 4.0m TO 5.0m
CUT: 1.0m TO 1.2m	CUT: 5.0m TO 6.0m	FILL: 1.0m TO 1.2m	FILL: 5.0m TO 6.0m
CUT: 1.2m TO 1.4m	CUT: 6.0m TO 100.0m	FILL: 1.2m TO 1.4m	FILL: 6.0m TO 100.0m
CUT: 1.4m TO 1.6m		FILL: 1.4m TO 1.6m	

Coords: MGA Levels: AHD

BANRIAR
INVESTMENTS

Scale @ A1/A3 1:250 / 1:500

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BEAconsfield WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEAconsfield
CARDINIA SHIRE COUNCIL
EARTHWORKS PLAN

Drawing No. 18144.2EW01 Rev 2
Sheet No. 16 of 18

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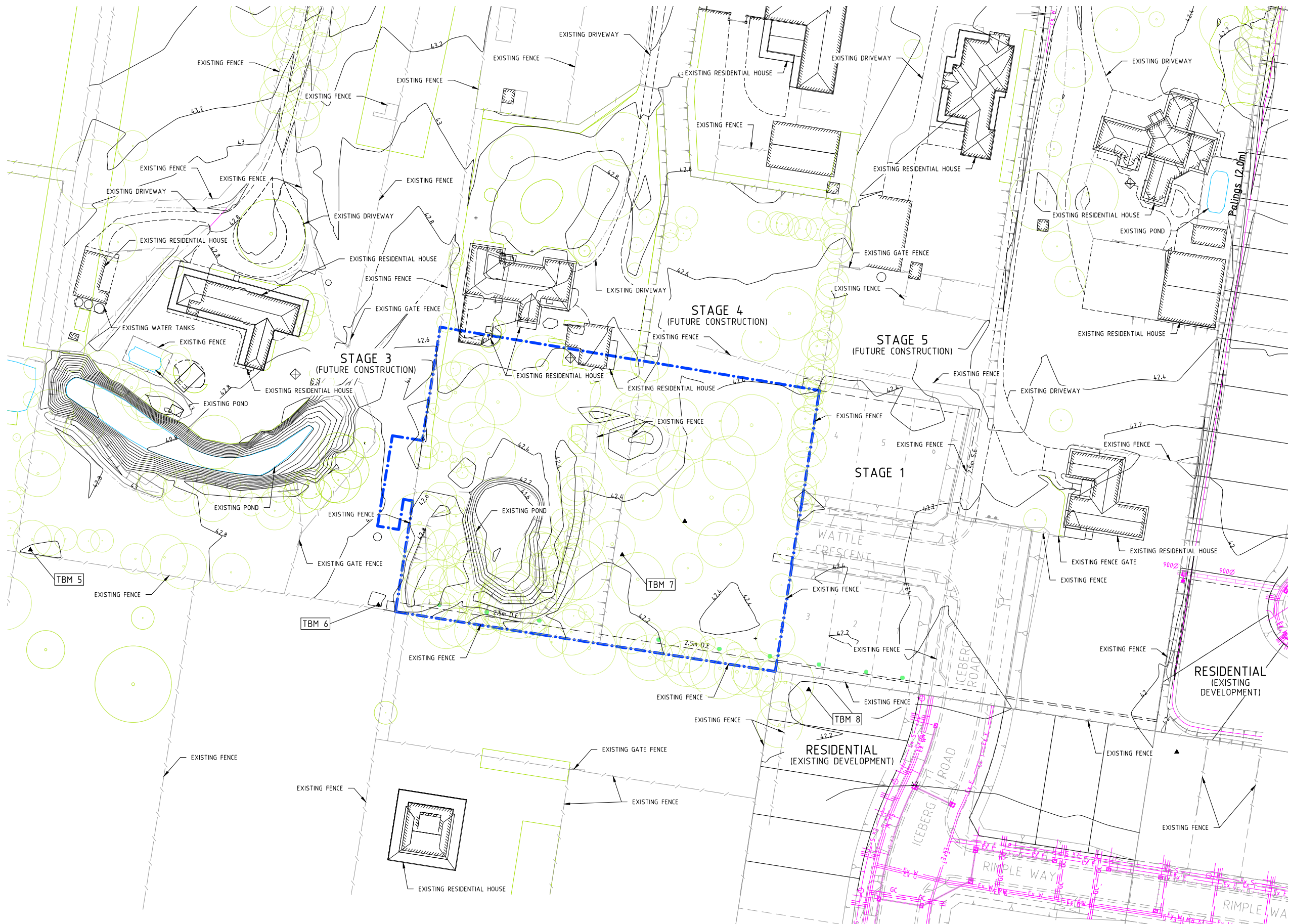
CONSTRUCTION

SURVEY
SURVEY IS PROVIDED BY RODNEY AUJARD & ASSOCIATES
LEVEL 1, 325 CAMBERWELL ROAD, CAMBERWELL, 3124.
PH: 9813 2222 FAX: 9813 2244. EMAIL: aujard@bigpond.net.au

TBM SCHEDULE

I.D.	TYPE	EASTING	NORTHING	LEVEL
TBM 1	SPIKE	358001.801	5786203.706	43.75
TBM 2	SPIKE	358092.820	5786180.665	43.38
TBM 3	SPIKE	358146.664	5786168.642	43.10
TBM 4	SPIKE	358298.685	5786134.676	42.04
TBM 5	STEEL ROD	357964.123	5785962.520	42.69
TBM 6	STEEL ROD	358055.160	5785948.114	42.35
TBM 7	STEEL ROD	358118.940	5785961.211	42.26
TBM 8	STEEL ROD	358167.717	5785925.992	42.11

NOTE: LOCATION OF TBM
FOR TBMS LOCATED OUTSIDE OF SCOPE REFER TO STAGING
PLAN.



CAUTION!
ALL EXISTING SERVICES IN THE VICINITY OF
WORKS SHALL BE PROTECTED AND KEPT IN
FUNCTIONAL STATE AT ALL TIMES DURING
WORKS.

BEWARE!
NBN OPTIC FIBRE CABLES IN THE VICINITY
OF WORKS. TEL: 1800 687 626.

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.

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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T.HAVENDRAN
T.LIAKOPOULOS

LEGEND
PSM / TBM
EX. DRAIN & PIT
EX. TREE TO REMAIN
EX. BATTER
EX. RW
EX. W
EX. G
EX. E
EX. S
EX. T
EX. REC. WATER MAIN
EX. WATER MAIN
EX. GAS MAIN
EX. ELECTRICAL CABLE
EX. SEWER MAIN & MH
EX. TELECOMM & PIT
GC
GAS CONDUIT
WATER CONDUIT



BANRIAR
INVESTMENTS

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

BEACONSFIELD WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEACONSFIELD
EXISTING FEATURES PLAN

Drawing No. 18144.2EF01
Rev 2
Sheet No. 17 of 18

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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.



NOTE:
SEPTIC TANK TO BE REMOVED BY LICENSED PLUMBER

CAUTION!
ALL EXISTING SERVICES IN THE VICINITY OF WORKS SHALL BE PROTECTED AND KEPT IN FUNCTIONAL STATE AT ALL TIMES DURING WORKS.

BEWARE!
NBN OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 1800 687 626.

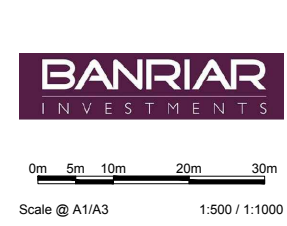
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- LEGEND
- PSM / TBM
 - EX. DRAIN & PIT
 - EX. TREE TO REMAIN
 - EX. TREE TO REMOVE
 - EX. BATTER
 - DEMOLITION AND REMOVAL BOUNDARY
 - EXISTING STRUCTURE TO BE REMOVED
 - EX. RW
 - EX. W
 - EX. G
 - EX. E
 - EX. S
 - EX. T
 - EX. RCW
 - EX. WATER MAIN
 - EX. GAS MAIN
 - EX. ELECTRICAL CABLE
 - EX. SEWER MAIN & MH
 - EX. TELECOM & PIT
 - GC
 - WATER CONDUIT



BEAconsfield WATTLE ESTATE
STAGE 2
190 KENILWORTH AVENUE, BEAconsfield
CARDINIA SHIRE COUNCIL
TREE REMOVAL AND DEMOLITION PLAN

Drawing No. 18144.2TR01
Sheet No. 18 of 18
Rev 2

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