



Our Reference: 5663548

Monday, 2 December 2019

Thave Thavendran
Dalton Consulting Engineers Pty Ltd
L 3 678 Victoria Street
Richmond Vic 3121

Dear Thave,

PA2017.5553 - Bloomdale Estate - Stage 31 – Amended Engineering Plans – Conditional Approval Letter

The above mentioned plans, received by Council on 2.12.19, are conditionally approved. Please find attached the approved stamped road & drainage plans.

The conditions are as follows and *must* be met prior to the Statement of Compliance being issued:

Condition 1: Amended sewer and water plans will need to be resubmitted showing changes to the Western Side of Maroon Way.

Council believes the list below represents the latest amended engineering plan submission:

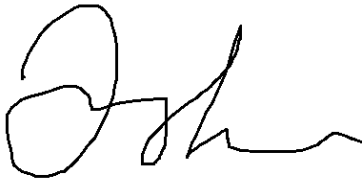
Drawing #	Sheet #	Revision
12655.31TD05	5	5
12655.31TD06	6	5
12655.31TD07	7	5
12655.31DP01	8	5
12655.31DP02	9	5
12655.31DP03	10	5
12655.31DP04	11	5
12655.31ID05	16	5
12655.31LM01	23	5
12655.31LM02	24	5
12655.31LM03	25	5
12655.31XS10	40	5
12655.31DR01	49	5
12655.31DR05	53	5
12655.31DR06	54	5
12655.31FP01	65	5
12655.31FP02	66	5
12655.31FP03	67	5
12655.31FP04	68	5

The approval is subject to compliance of all statutory and legal obligations and granted with the understanding that the engineering consultant, developer and land owner take full responsibility for the design contained in the amended approved engineering plans.

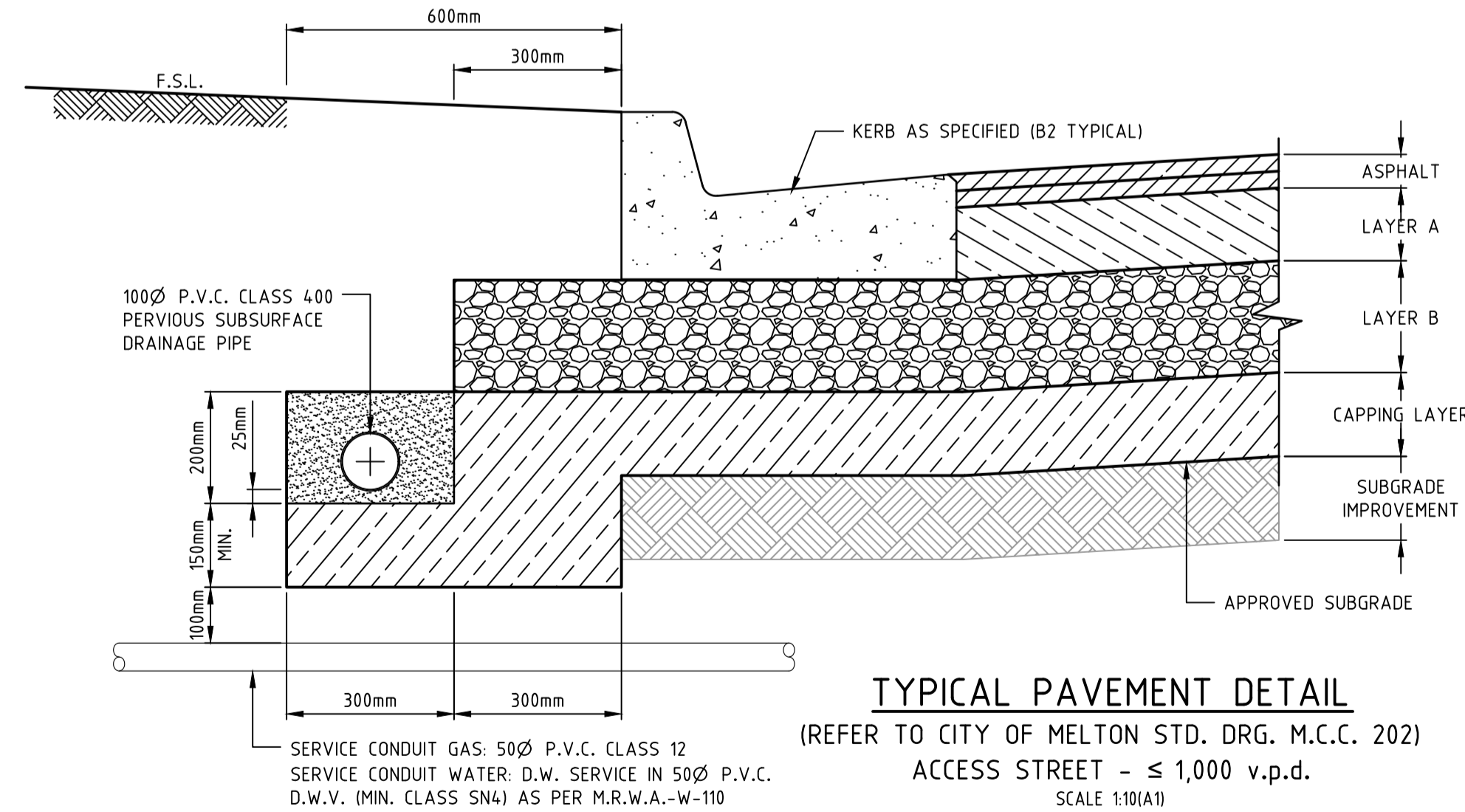
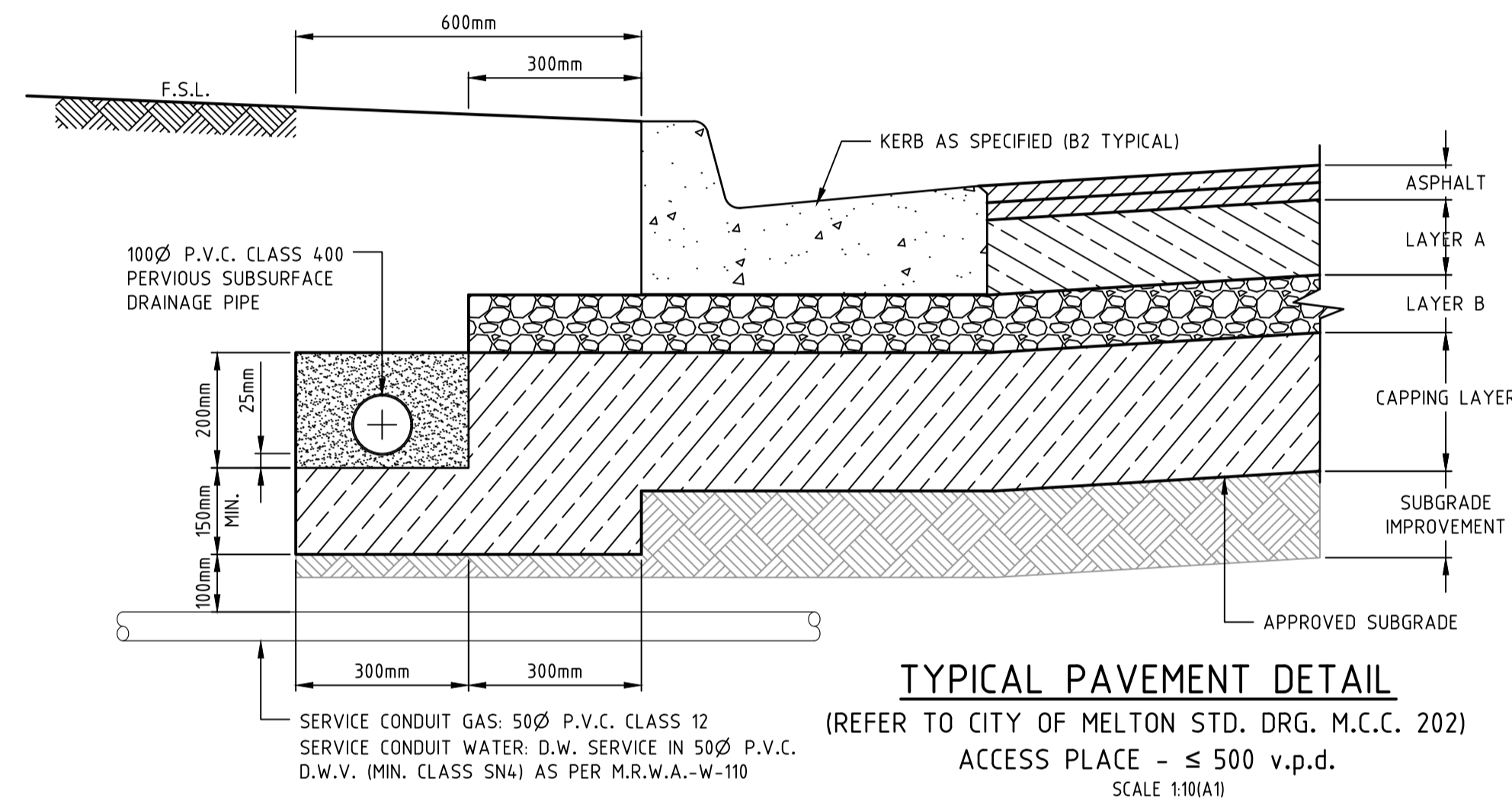
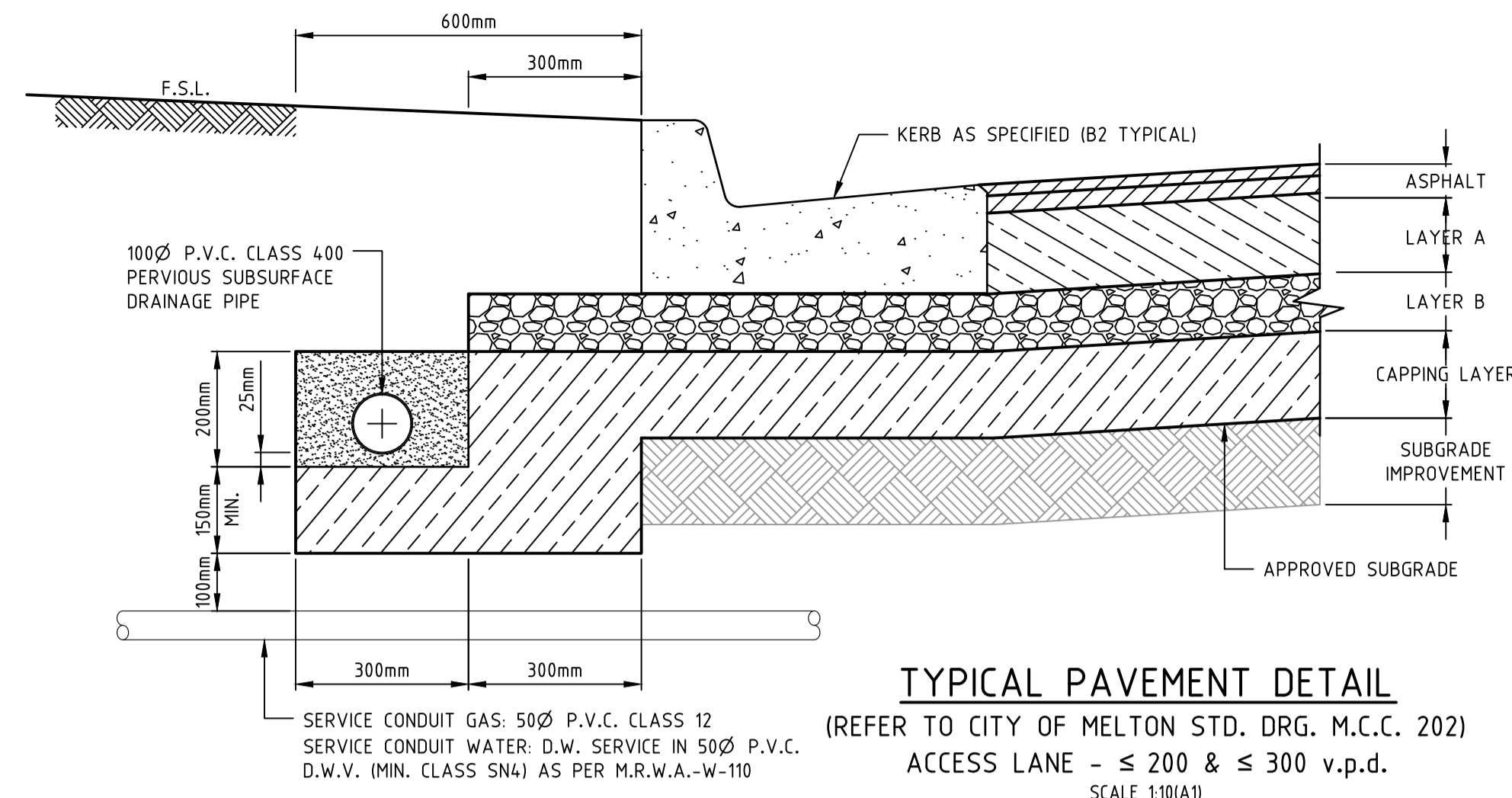
This amended approval is subject to all the conditions, comments and notes in the original approval letter.

Should you have any queries, please contact me at Email: pengh@melton.vic.gov.au or T: 9747 7200

Regards,

A handwritten signature in black ink, appearing to be 'Peng Hua', written in a cursive style.

PENG HUA
DEVELOPMENT ENGINEER



PAVEMENT DETAILS				
ACCESS LANE - ≤ 200 & ≤ 300 v.p.d.				
THRIVE CRESCENT STONE LANE				
	LAYER	DEPTH (mm)	LAYER DESCRIPTION	OVERALL DEPTH
TWO LAYER ASPHALT	WEARING COURSE	20	SIZE 7mm TYPE L CLASS 320 ASPHALT	20
	BASE COURSE	30	SIZE 10mm TYPE N CLASS 320 ASPHALT	50
	INTERLAYER	10	10mm SAMI WITH S18RF BINDER	60
	BONDING LAYER	-	BITUMINOUS PRIME (FOR WATERPROOFING)	
LAYER A	BASE	140	SIZE 20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS 1289, 5.2.1	200
LAYER B	SUB-BASE	100	SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS 1289, 5.2.1	300
CAPPING	CAPPING	150	CAPPING LAYER MATERIAL MEETING THE MATERIAL PROPERTIES AS PER SECTION 9.2.3 SHOULD BE COMPACTED TO MIN. DENSITY OF 98% (STANDARD) AS1289, 5.1.1	450
SUBGRADE	SUBGRADE IMPROVEMENT	150	SELECT FILL MATERIAL MEETING THE MATERIAL PROPERTIES AS PER SECTION 9.2.2 SHOULD BE COMPACTED TO MIN. DENSITY OF 98% (STANDARD) AS1289, 5.1.1	600
TOTAL DEPTH:				600
	SUBGRADE		MATERIAL AS FOUND (CLAY). TOP 200mm COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1. WHERE SELECT FILL CAPPING LAYER IS ADOPTED	

REFER TO GEOTECHNICAL REPORT BY: TONKIN-TAYLOR PTY LTD
NUMBER: 1004.019 | REV: R1v2 | DATE: June 2018

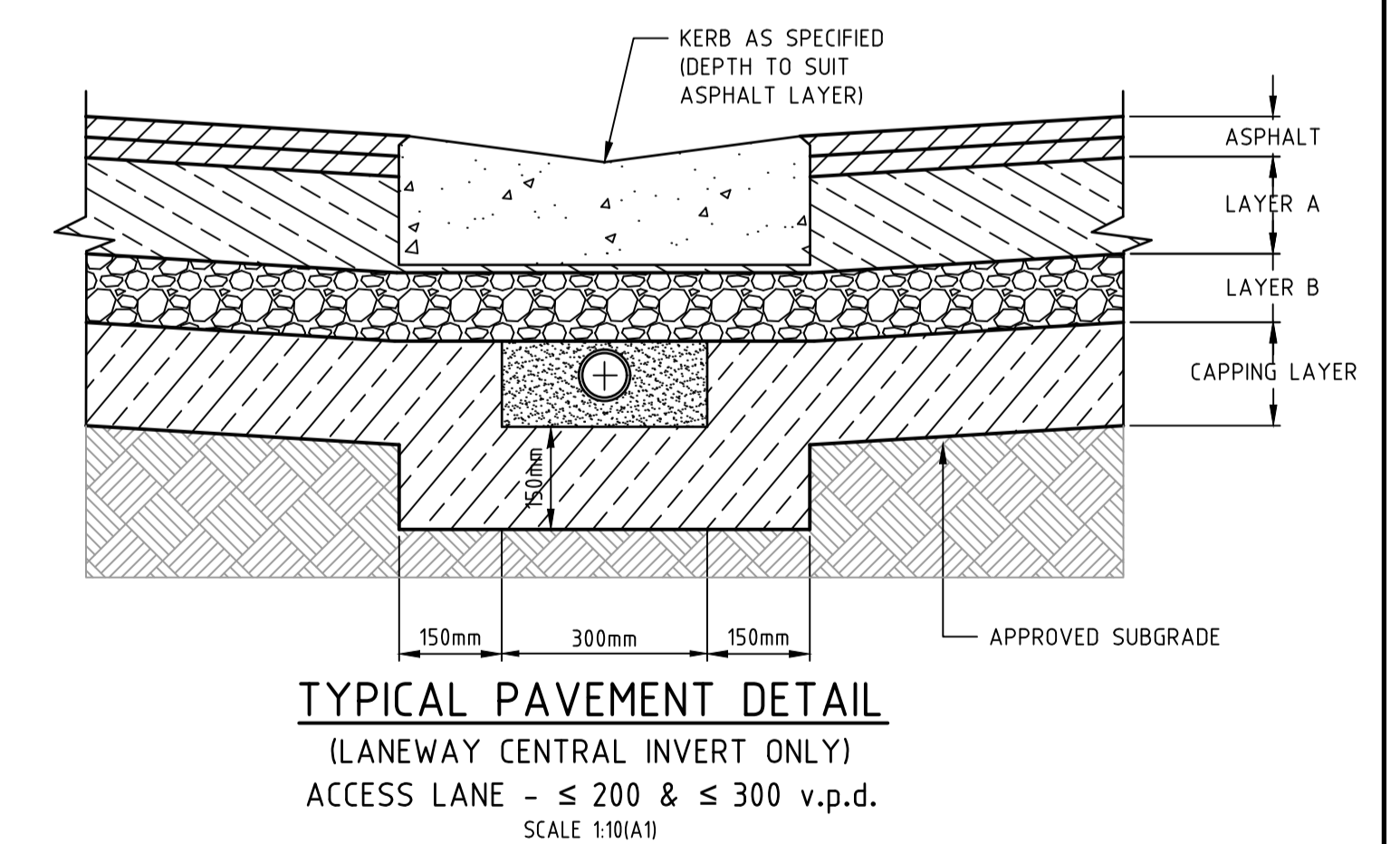
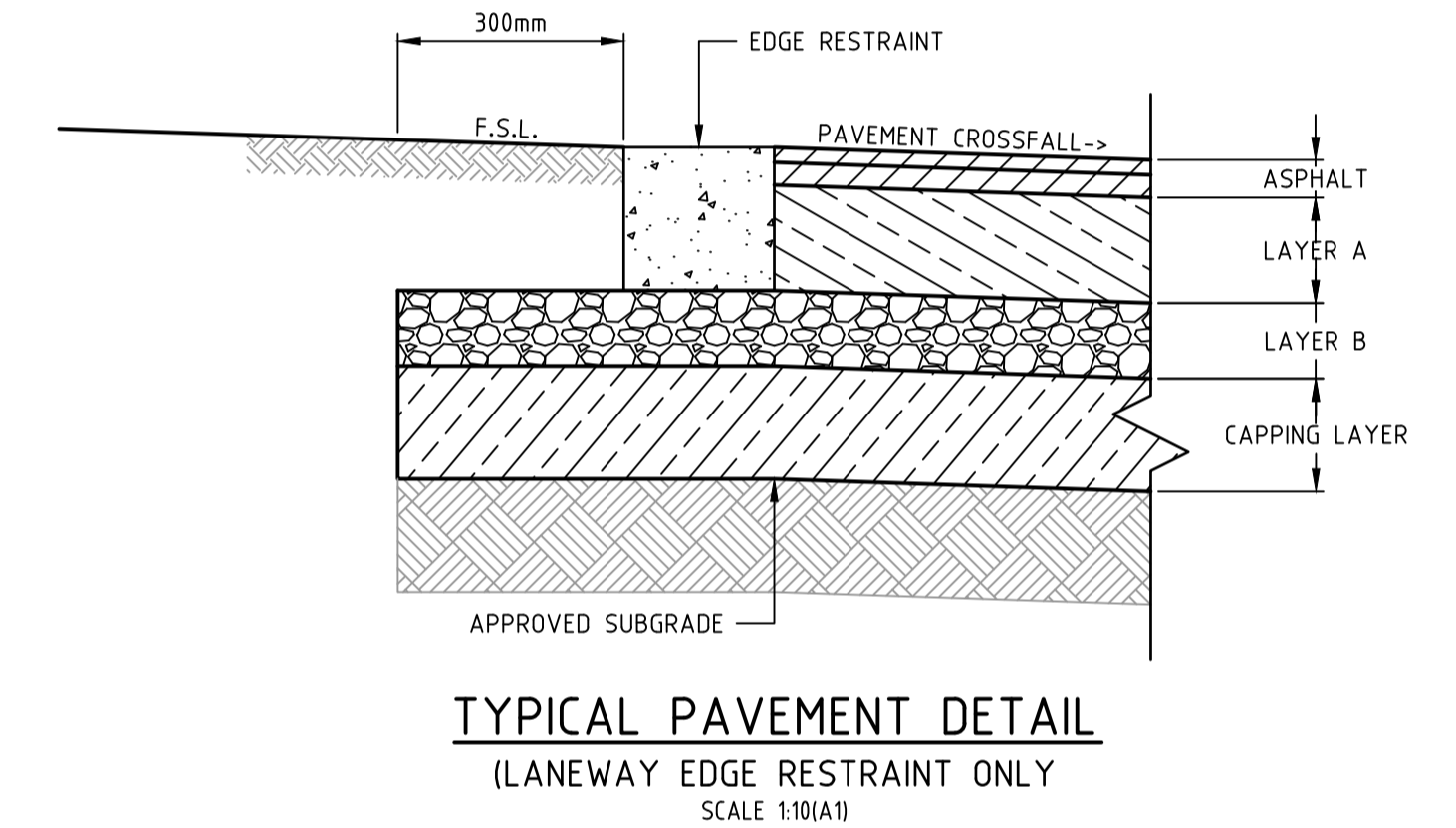
PAVEMENT DETAILS				
ACCESS PLACE - ≤ 500 v.p.d.				
FRAGRANT CRESCENT				
	LAYER	DEPTH (mm)	LAYER DESCRIPTION	OVERALL DEPTH
TWO LAYER ASPHALT	WEARING COURSE	30	SIZE 10mm TYPE L CLASS 320 ASPHALT	30
	BASE COURSE	30	SIZE 10mm TYPE N CLASS 320 ASPHALT	60
	INTERLAYER	10	10mm SAMI WITH S18RF BINDER	70
	BONDING LAYER	-	BITUMINOUS PRIME (FOR WATERPROOFING)	
LAYER A	BASE	130	SIZE 20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS 1289, 5.2.1	200
LAYER B	SUB-BASE	100	SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS 1289, 5.2.1	300
CAPPING	CAPPING	240	CAPPING LAYER MATERIAL MEETING THE MATERIAL PROPERTIES AS PER SECTION 9.2.3 SHOULD BE COMPACTED TO MIN. DENSITY OF 98% (STANDARD) AS1289, 5.1.1	540
SUBGRADE	SUBGRADE IMPROVEMENT	150	SELECT FILL MATERIAL MEETING THE MATERIAL PROPERTIES AS PER SECTION 9.2.2 SHOULD BE COMPACTED TO MIN. DENSITY OF 98% (STANDARD) AS1289, 5.1.1	690
TOTAL DEPTH:				690
	SUBGRADE		MATERIAL AS FOUND (CLAY). TOP 200mm COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1. WHERE SELECT FILL CAPPING LAYER IS ADOPTED	

REFER TO GEOTECHNICAL REPORT BY: TONKIN-TAYLOR PTY LTD
NUMBER: 1004.019 | REV: R1/R2 | DATE: June/July 2018

STAGE 31 ROAD PAVEMENT CLASSIFICATION NOTE:			
REFER 'PARCEL C - STAGES 31-41 PAVEMENT REPORT' BY TONKIN & TAYLOR (REF: 1004.019.R2)			
STREET NAME	CLASS	VOLUME (v.p.d.)	REPORT TYPE
FRAGRANT CRESCENT	ACCESS PLACE	≤ 500	2
LICENSE ROAD	CONNECTOR STREET	≤ 5,000	6
MAROON WAY	ACCESS STREET	≤ 1,000	3
ROUNDAABOUT	CONNECTOR STREET	≤ 5,000	C
SILK DRIVE	CONNECTOR STREET	≤ 5,000	6
STONE LANE	ACCESS LANE	≤ 200	1
THRIVE CRESCENT	ACCESS LANE	≤ 200	1

PAVEMENT DETAILS				
ACCESS STREET 1 - ≤ 1,000 v.p.d.				
MAROON WAY				
	LAYER	DEPTH (mm)	LAYER DESCRIPTION	OVERALL DEPTH
TWO LAYER ASPHALT	WEARING COURSE	30	SIZE 10mm TYPE N CLASS 320 ASPHALT	30
	BASE COURSE	30	SIZE 10mm TYPE N CLASS 320 ASPHALT	60
	INTERLAYER	10	10mm SAMI WITH S18RF BINDER	70
	BONDING LAYER	-	BITUMINOUS PRIME (FOR WATERPROOFING)	
LAYER A	BASE	130	SIZE 20mm CLASS 2 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS 1289, 5.2.1	200
LAYER B	SUB-BASE	200	SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS 1289, 5.2.1	400
CAPPING	CAPPING	150	CAPPING LAYER MATERIAL MEETING THE MATERIAL PROPERTIES AS PER SECTION 9.2.3 SHOULD BE COMPACTED TO MIN. DENSITY OF 98% (STANDARD) AS1289, 5.1.1	550
SUBGRADE	SUBGRADE IMPROVEMENT	150	SELECT FILL MATERIAL MEETING THE MATERIAL PROPERTIES AS PER SECTION 9.2.2 SHOULD BE COMPACTED TO MIN. DENSITY OF 98% (STANDARD) AS1289, 5.1.1	700
TOTAL DEPTH:				700
	SUBGRADE		MATERIAL AS FOUND (CLAY). TOP 200mm COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1. WHERE SELECT FILL CAPPING LAYER IS ADOPTED	

REFER TO GEOTECHNICAL REPORT BY: TONKIN-TAYLOR PTY LTD
NUMBER: 1004.019 | REV: R1v2 | DATE: June 2018



TYPICAL SUB-SURFACE DRAIN NOTES:
ALL SUBSURFACE DRAINS TO BE IN ACCORDANCE WITH V.P.A. STD. DRG. E.D.C.M. 201 AND 202.

CLASS 1000 PIPE AND TRENCH IN ACCORDANCE WITH E.D.C.M. 201 SHALL ALSO BE USED IN THE FOLLOWING LOCATIONS:

- WHEN SUBSURFACE DRAIN IS LAID ACROSS THE ROAD (SUCH AS AT PAVEMENT JOINTS).
- UNDERNEATH INVERT KERBS THAT ARE USED AS PRIORITY TREATMENT THROUGH INTERSECTIONS.
- UNDERNEATH INVERT KERBS WITHIN LANEWAYS.
- UNDERNEATH INVERT KERBS AT INDENTED BAYS.
- UNDERNEATH KERBS AT LANEWAY DRIVEWAY CROSSOVERS.
- UNDERNEATH TRAFFICABLE AREAS OF ROUNDAABOUT OVERRUN AREAS.

TYPICAL KERB NOTES:
ALL KERB TYPES REFER TO V.P.A. STD. DRG. E.D.C.M. 301 AND 302.

- KERB LIST AND USE:**
- B2 KERB (600 WIDE): ALL ROADS (EXCEPT LANEWAYS) PARKING BAYS
 - B3 KERB (600 WIDE): SPLITTER ISLAND (TYPE S.1.1) ROUNDAABOUT TRAFFIC ISLANDS AND CENTRAL MEDIANS
 - S.M1 KERB: SPLITTER ISLAND (TYPE S.1.2 - 90° BENDS)
 - S.M3 KERB: INDENTED PARKING BAYS - MATCH 450 LIP LANEWAY INVERT ONLY LANEWAY AND END OF ROAD TREATMENTS
 - M1 KERB:
 - INVERT CHANNEL (750 WIDE):
 - INVERT CHANNEL (600 WIDE):
 - EDGE STRIP:



Coords: MGA
Levels: AHD
Hor 1:10 0m 0.1m 0.2m 0.4m 0.6m
Scale @ A1/A3 1:10/1:20

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
TYPICAL PAVEMENT DETAILS
SHEET 01 OF 02
Drawing No. 12655.31TD05 Rev 5
Sheet No. 05 CONSTRUCTION
© Dalton Consulting Engineers Pty Ltd

DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au
VICTORIA
T 61 3 9813 7400
W dceng.com.au

REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
Date 30/10/18
AN 1991122
Designed K.PHAL
Date 30/10/18
AN 1871742
Verified R.MASON
Date 20/11/18
AN 705189
Approved T.LIAKOPOULOS
Date 30/11/18
AN 888490

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.

STAGE 31 ROAD PAVEMENT CLASSIFICATION NOTE:			
REFER 'PARCEL C - STAGES 31-41 PAVEMENT REPORT' BY TONKIN & TAYLOR (REF: 1004.019.R2)			
STREET NAME	CLASS	VOLUME (v.p.d.)	REPORT TYPE
FRAGRANT CRESCENT	ACCESS PLACE	<= 500	2
LICENSE ROAD	CONNECTOR STREET	<= 5,000	6
MAROON WAY	ACCESS STREET	<= 1,000	3
ROUNDAABOUT	CONNECTOR STREET	<= 5,000	C
SILK DRIVE	CONNECTOR STREET	<= 5,000	6
STONE LANE	ACCESS LANE	<= 200	1
THRIVE CRESCENT	ACCESS LANE	<= 200	1

PAVEMENT DETAILS

CONNECTOR STREET - ≤ 5,000 v.p.d.

LICENSE ROAD | SILK DRIVE

LAYER	DEPTH (mm)	LAYER DESCRIPTION	OVERALL DEPTH
DEEP STRENGTH ASPHALT	WEARING COURSE	40 SIZE 14mm TYPE N CLASS 320 ASPHALT	40
	INTERMEDIATE COURSE	75 SIZE 20mm TYPE SI CLASS 320 ASPHALT	115
	BASE COURSE	75 SIZE 20mm TYPE SF CLASS 320 ASPHALT	190
	BONDING LAYER	- BITUMINOUS PRIME (FOR WATERPROOFING)	
LAYER A	BASE	100 SIZE 20mm CLASS 3 CRUSHED ROCK COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED) AS 1289, 5.2.1	290
CAPPING	CAPPING	270 CAPPING LAYER MATERIAL MEETING THE MATERIAL PROPERTIES AS SPECIFIED IN THE REPORT SHOULD BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) AS1289, 5.1.1	560
SUBGRADE	SUBGRADE IMPROVEMENT	150 SELECT FILL MATERIAL MEETING THE MATERIAL PROPERTIES AS SPECIFIED IN THE REPORT SHOULD BE COMPACTED TO MIN. DENSITY OF 98% (STANDARD) AS1289, 5.1.1	710
TOTAL DEPTH:			710
SUBGRADE	SUBGRADE	MATERIAL AS FOUND (CLAY), TOP 200mm COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1.	

REFER TO GEOTECHNICAL REPORT BY: TONKIN-TAYLOR PTY LTD
NUMBER: 1004.019 | REV: R2v1 | DATE: JULY 2018

TYPICAL KERB NOTES:
ALL KERB TYPES REFER TO V.P.A. STD. DRG. E.D.C.M. 301 AND 302.

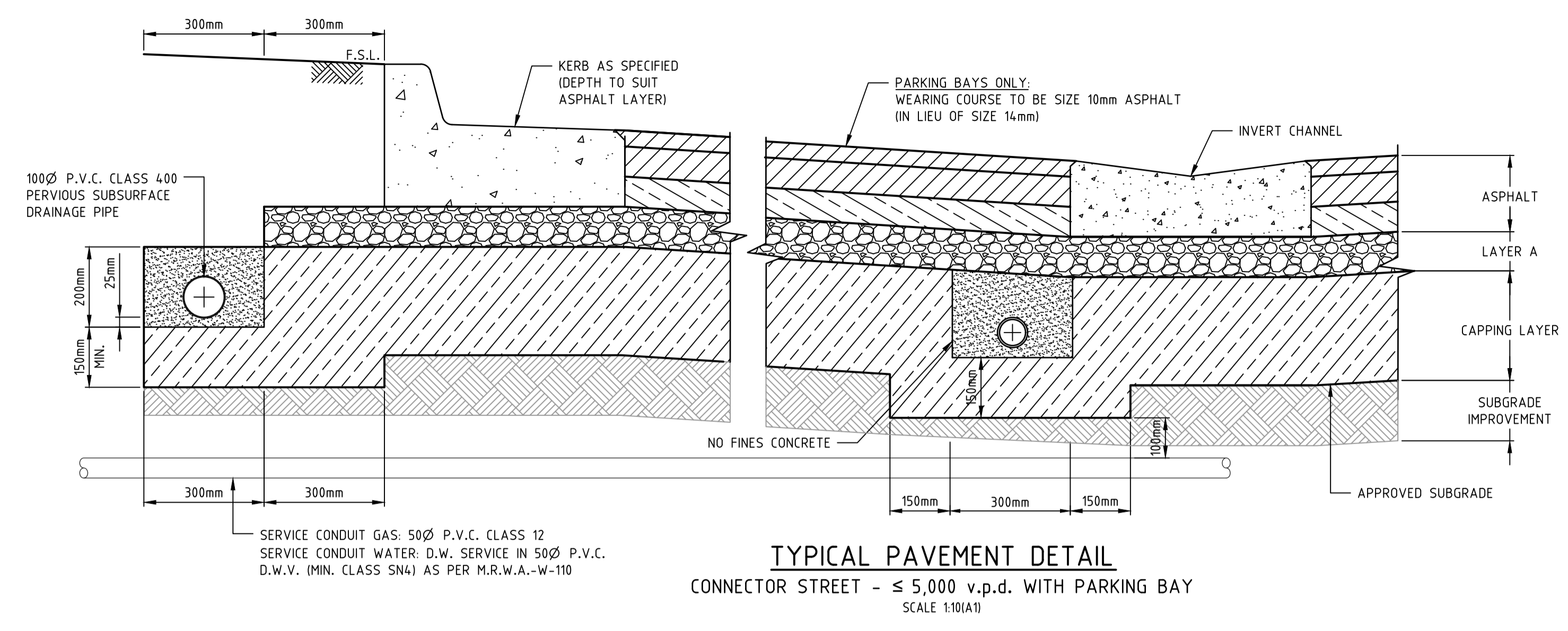
KERB LIST AND USE:

1. B2 KERB (600 WIDE):	ALL ROADS (EXCEPT LANEWAYS)
2. B3 KERB (600 WIDE):	PARKING BAYS
3. SM1 KERB:	SPLITTER ISLAND (TYPE S.1.1)
4. SM3 KERB:	ROUNDAABOUT TRAFFIC ISLANDS AND CENTRAL MEDIANS
5. M1 KERB:	SPLITTER ISLAND (TYPE S.1.2 - 90° BENDS)
6. INVERT CHANNEL (750 WIDE):	INDENTED PARKING BAYS - MATCH 450 LIP
7. INVERT CHANNEL (600 WIDE):	LANEWAY INVERT ONLY
8. EDGE STRIP:	LANEWAY AND END OF ROAD TREATMENTS

TYPICAL SUB-SURFACE DRAIN NOTES:
ALL SUBSURFACE DRAINS TO BE IN ACCORDANCE WITH V.P.A. STD. DRG. E.D.C.M. 201 AND 202.

CLASS 1000 PIPE AND TRENCH IN ACCORDANCE WITH E.D.C.M. 201 SHALL ALSO BE USED IN THE FOLLOWING LOCATIONS:

- WHEN SUBSURFACE DRAIN IS LAID ACROSS THE ROAD (SUCH AS AT PAVEMENT JOINTS).
- UNDERNEATH INVERT KERBS THAT ARE USED AS PRIORITY TREATMENT THROUGH INTERSECTIONS.
- UNDERNEATH INVERT KERBS WITHIN LANEWAYS.
- UNDERNEATH INVERT KERBS AT INDENTED BAYS.
- UNDERNEATH KERBS AT LANEWAY DRIVEWAY CROSSOVERS.
- UNDERNEATH TRAFFICABLE AREAS OF ROUNDAABOUT OVERRUN AREAS.



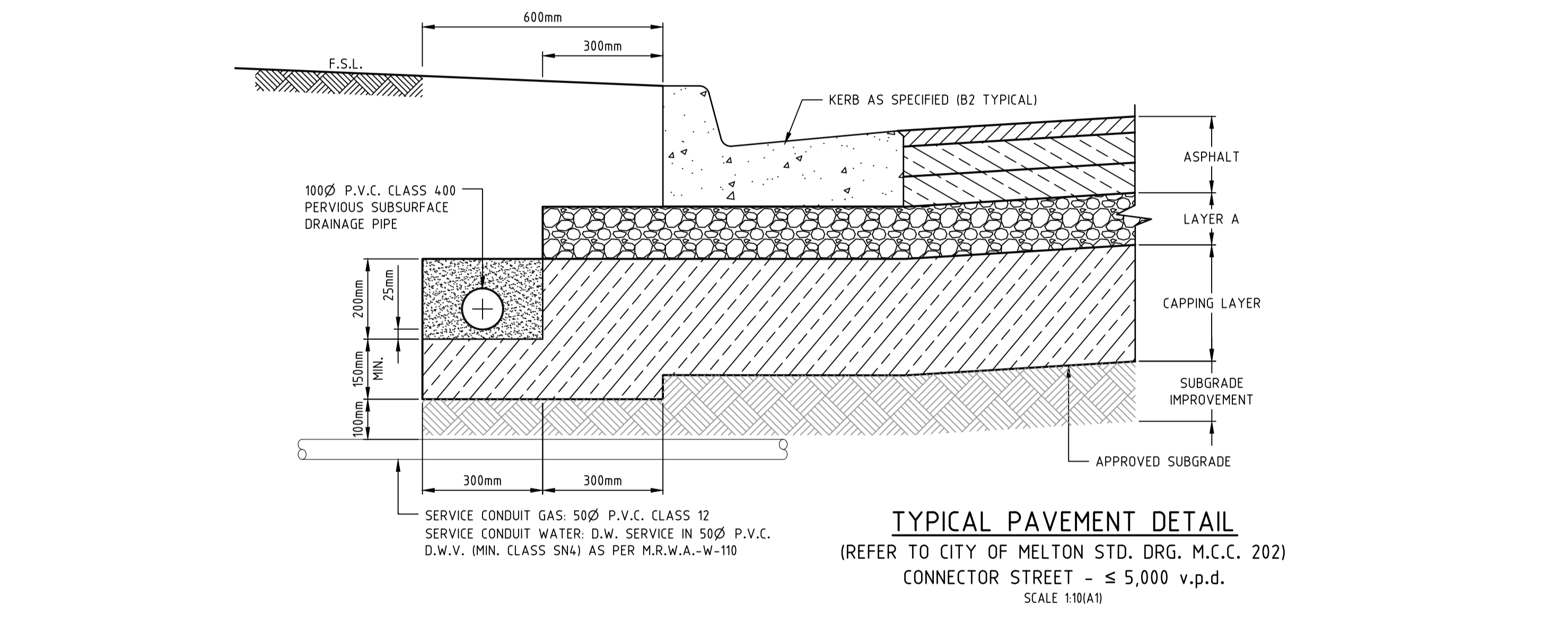
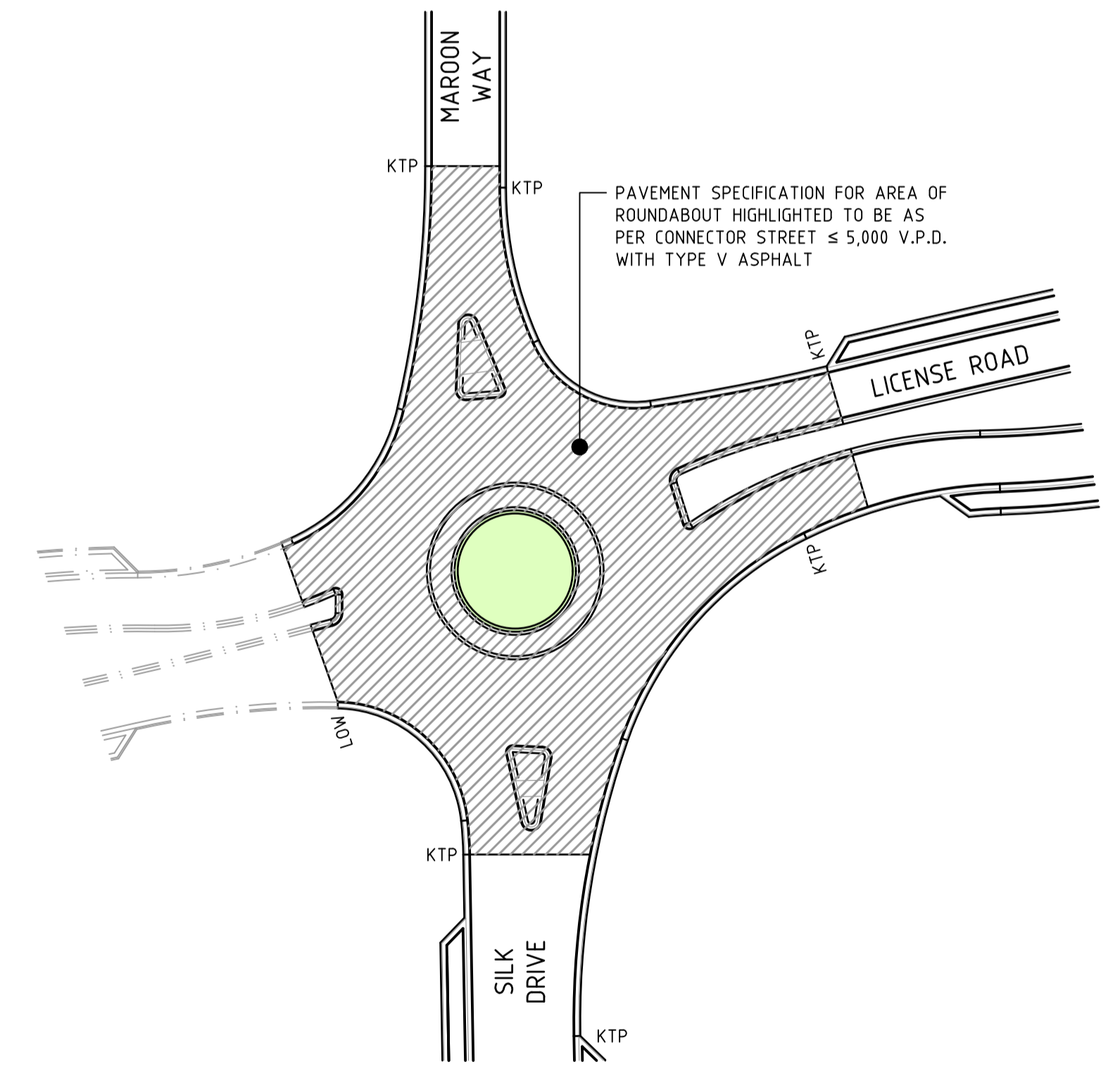
PAVEMENT DETAILS

CONNECTOR STREET - ≤ 5,000 v.p.d.

ROUNDAABOUT (FOR EXTENTS REFER DETAIL)

LAYER	DEPTH (mm)	LAYER DESCRIPTION	OVERALL DEPTH
DEEP STRENGTH ASPHALT	WEARING COURSE	40 SIZE 14mm TYPE V CLASS 320 ASPHALT	40
	INTERMEDIATE COURSE	75 SIZE 20mm TYPE SI CLASS 320 ASPHALT	115
	BASE COURSE	75 SIZE 20mm TYPE SF CLASS 320 ASPHALT	190
	BONDING LAYER	- BITUMINOUS PRIME (FOR WATERPROOFING)	
LAYER A	BASE	130 SIZE 20mm CLASS 3 CEMENT TREATED CRUSHED ROCK (~3% CEMENT) COMPACTED TO AT LEAST 96% (MODIFIED) MAXIMUM DRY DENSITY AS1289, 5.2.1	320
CAPPING	CAPPING	290 CAPPING LAYER MATERIAL MEETING THE MATERIAL PROPERTIES AS SPECIFIED IN THE REPORT SHOULD BE COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) AS1289, 5.1.1	610
SUBGRADE	SUBGRADE IMPROVEMENT	150 SELECT FILL MATERIAL MEETING THE MATERIAL PROPERTIES AS SPECIFIED IN THE REPORT SHOULD BE COMPACTED TO MIN. DENSITY OF 98% (STANDARD) AS1289, 5.1.1	760
TOTAL DEPTH:			760
SUBGRADE	SUBGRADE	MATERIAL AS FOUND (CLAY), TOP 200mm COMPACTED TO A MINIMUM DENSITY OF RATIO 98% (STANDARD) AS1289, 5.1.1.	

REFER TO GEOTECHNICAL REPORT BY: TONKIN-TAYLOR PTY LTD
NUMBER: 1004.019 | REV: R2v1 | DATE: JULY 2018



MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 3/12/2019



Coords: MGA
Levels: AHD
Hor 1:10 0m 0.1m 0.2m 0.4m 0.6m
Scale @ A1/A3 1:10/1:20

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
TYPICAL PAVEMENT DETAILS
SHEET 02 OF 02
Drawing No. 12655.31TD06 Rev 5
Sheet No. 06 CONSTRUCTION
© Dalton Consulting Engineers Pty Ltd

DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au
VICTORIA
T 61 3 9813 7400
W dceng.com.au

REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
Date 30/10/18
AN 1991122
Designed K.PHAL
Date 30/10/18
AN 1871742
Verified R.MASON
Date 20/11/18
AN 705189
Approved T.LIAKOPOULOS
Date 30/11/18
AN 888490

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

Drawing File: C:\24_Synergy\den\ENERGY-MEL\12655.31-Bloomdale Stage 31_1320\1_DESIGN\01_ACAD\04.dwg
 Drawing Title: Typical Pavement Details
 Date/Time: Mon Nov 18, 2019 11:53am
 User: Robert Young

VACANT LAND
(GREEN WEDGE ZONE)
(190-370 DAVIS ROAD, DIGGERS REST)
(LOT 1 ON TP239069)

VACANT LAND
(FUTURE DEVELOPMENT BY OTHERS)
(87-193 DAVIS ROAD DIGGERS REST)
(LOT E AND F ON PS816592)

VACANT LAND
(GREEN WEDGE ZONE)
(210 DIGGERS REST-COIMADAI ROAD, DIGGERS REST)
(LOT 1 ON TP340352)

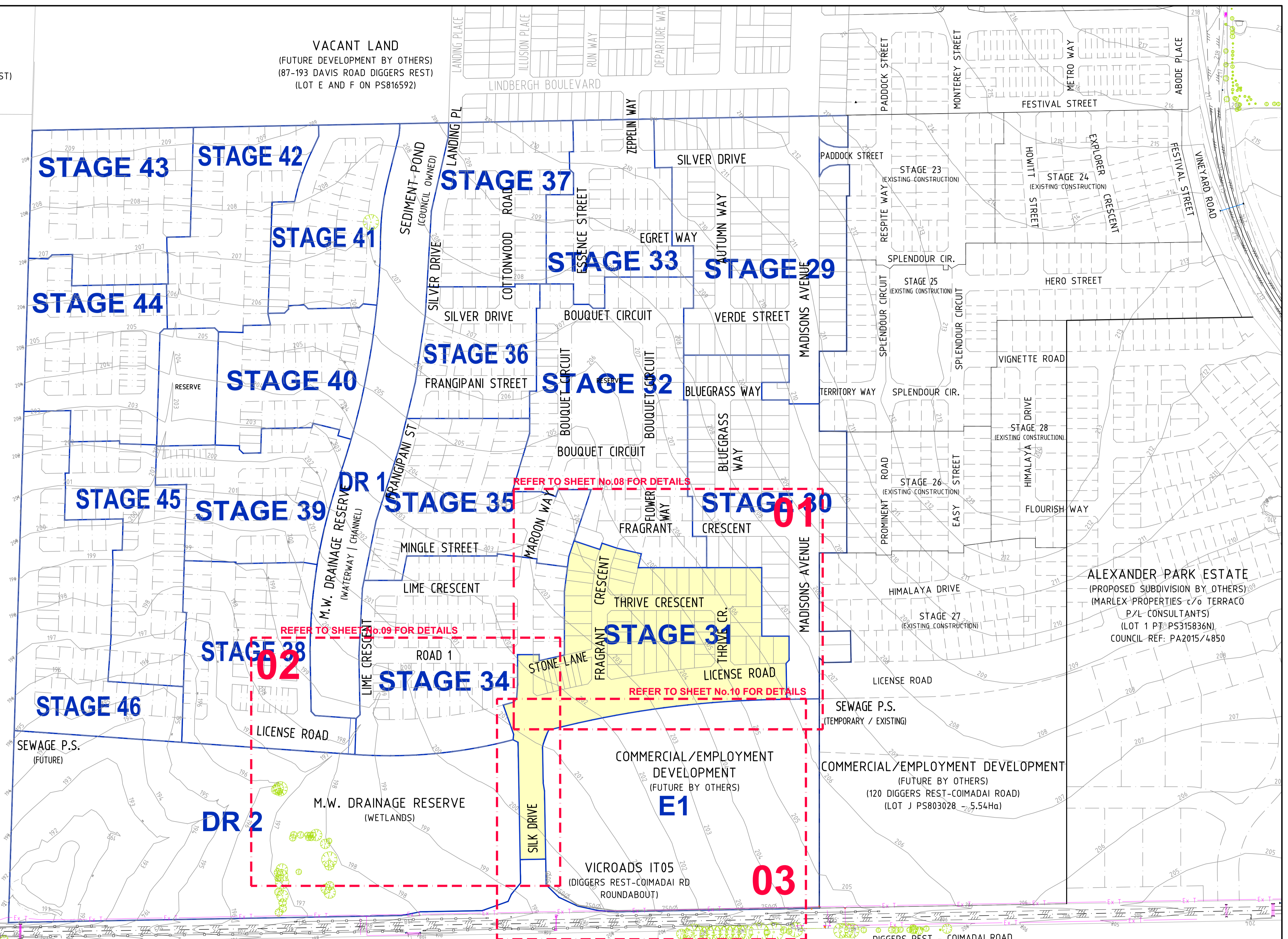
PARCEL C SUMMARY:
TITLE: LOT 3 LP6069
ADDRESS: 146 DIGGERS REST-COIMADAI ROAD
DIGGERS REST, 3427
AREA: 67.60 Ha
LOTS: 720+ LOTS

STAGE 31 SUMMARY:
TITLE: LOT D PS82100T
AREA: 4.01 Ha
LOTS: 56 LOTS

- REFERENCES:**
THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
1. G.A.A. DIGGERS REST PRECINCT STRUCTURE PLAN
2. MELBOURNE WATER DIGGERS REST DRAINAGE SCHEME DSS 4183
3. ALL FLOWS TO KOROROIT CREEK (EAST BRANCH)

BLOOMDALE PROJECT D.C.E. REFERENCES		
PROJECT	STATUS	CONTRACT REF.
TEMP. OPEN EARTH DRAIN OUTFALL	EXISTING / BUILT	12340.17T0
375Ø BRANCH SEWER	EXISTING / BUILT	12340.52S
LICENSE RD SEWAGE P.S. & R.M. (TEMP)	EXISTING / BUILT	12340.52RM
PARCEL A (STAGES 11 TO 19)	EXISTING / BUILT	12340.11 - 12340.19
PARCEL B (STAGES 23 TO 28)	EXISTING / BUILT	12563.23 - 12563.28
PARCEL C M.W. WETLANDS	FUTURE	12563.50
PARCEL C M.W. WATERWAY / CHANNEL	FUTURE	12655.1
PARCEL C LICENSE RD CULVERTS	FUTURE	12655.2
PARCEL C (STAGE 32 TO 44)	FUTURE	12655.32 - 12655.44
PARCEL C (SEWAGE P.S. AND R.M.)	FUTURE	12655.51

BLOOMDALE PROJECT D.C.E. REFERENCES		
PROJECT	STATUS	CONTRACT REF.
PARCEL C (BRANCH SEWER SOUTH SEC.)	EXISTING	12655.52
PARCEL C SEDIMENT POND	EXISTING	12655.1A
PARCEL C (STAGE 29)	EXISTING	12655.29RD & SW
PARCEL C (STAGE 29 SCHEME DRAIN)	EXISTING	12655.29MW
PARCEL C (STAGE 30)	EXISTING	12655.30RD & SW
PARCEL C (STAGE 31)	PROPOSED	12655.31RD & SW
PARCEL C (STAGE 31 SCHEME DRAIN)	PROPOSED	12655.31MW
PARCEL C (IT05 INTERSECTION)	PROPOSED	12655.53



EXISTING RURAL PARCEL
(LOT 2 ON LP201182) (GREEN WEDGE ZONE)
(327-349 DIGGERS REST-COIMADAI ROAD, DIGGERS REST)

EXISTING RURAL PARCEL
(LOT 2 ON LP8056) (GREEN WEDGE ZONE)
(279-325 DIGGERS REST-COIMADAI ROAD, DIGGERS REST)

EXISTING RURAL PARCEL
(LOT 1 ON LP90572) (GREEN WEDGE ZONE)
(245-277 DIGGERS REST-COIMADAI ROAD, DIGGERS REST)

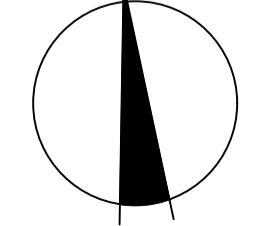
EXISTING RURAL PARCEL
(LOT 2 ON LP90572) (GREEN WEDGE ZONE)
(219-243 DIGGERS REST-COIMADAI ROAD, DIGGERS REST)

REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
Date 30/10/18
AN 1991122
Designed K.PHAL
Date 30/10/18
AN 1871742
Verified R.MASON
Date 20/11/18
AN 705189
Approved T.LIAKOPOULOS
Date 30/11/18
AN 888490



LEGEND
AREA OF WORKS



Coords: MGA
Levels: AHD
Hor 1:2000 0m 20m 40m 80m 120m
Scale @ A1/A3 1:2000/1:400

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
OVERALL LAYOUT PLAN

Drawing No. 12655.31SP01 Rev 5
Sheet No. 07 CONSTRUCTION

© Dalton Consulting Engineers Pty Ltd



ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

Drawing File: C:\24 Synnergy\Draws\ENERGY-MEL\12655.31-Bloomdale Stage 31_1320\1_DESIGN\01_LAY01.dwg
 Drawing Title: Overall Layout Plan
 Date/Time: Mon Nov 18, 2019 11:54am
 User: Robert Young

STREET NAME	WATER	GAS	N.B.N	ELEC.	SEWER	SEWER RM
FRAGRANT CRESCENT ↕	2.70 W	2.20 W	1.85 E	2.40 E	--	--
LICENSE ROAD	8.20 N	7.70 N	3.00 S	3.60 S	1.00 N	2.00 S
MAROON WAY	2.70 W	2.20 W	1.85 E	2.40 E	1.00 E/W	--
SHARED DRIVEWAY (SERVICE CONDUITS)	2.70 N	2.20 N	0.80 S	1.40 S	--	--
SILK DRIVE	2.70 E	2.20 E	1.85 W	2.60 W	--	--
STONE LANE (LANEWAY)	--	--	--	--	2.50 N	--
THRIVE CRESCENT ↔	2.70 N	2.20 N	1.85 S	2.60 S	1.00 S	--
THRIVE CRESCENT ↕	2.70 E	2.20 E	1.85 W	2.60 W	1.00 W	--

STAGE 31 ROAD PAVEMENT CLASSIFICATION NOTE:

REFER 'PARCEL C - STAGES 31-41 PAVEMENT REPORT' BY TONKIN & TAYLOR (REF. 1004.019.R2)

STREET NAME	CLASS	VOLUME (v.p.d.)	REPORT TYPE
FRAGRANT CRESCENT	ACCESS PLACE	≤ 500	2
LICENSE ROAD	CONNECTOR STREET	≤ 5,000	6
MAROON WAY	ACCESS STREET	≤ 1,000	3
ROUNDABOUT	CONNECTOR STREET	≤ 5,000	C
SILK DRIVE	CONNECTOR STREET	≤ 5,000	6
STONE LANE	ACCESS LANE	≤ 200	1
THRIVE CRESCENT	ACCESS LANE	≤ 200	1

TBM 1
STAR PICKET
E 296,851.31
N 5,833,320.27
RL 205.52m

TBM 2
RIVET IN PIT SURR.
E 296,969.67
N 5,833,193.45
RL 206.44m

DRAIN ALIGNMENT BETWEEN PIT 36R AND 37R ALIGNED TO LOCATE DRAINAGE PITS AWAY FROM SEWER MANHOLES

LANDSCAPING NOTES:
WORKS / CONSTRUCTION BY LANDSCAPER (C.D.A. DESIGN GROUP):

- LICENSE ROAD: 4.00m WIDE LANDSCAPED BUFFER ZONE TO NORTHERN NATURE STRIP.
- LICENSE ROAD: 5.40m WIDE (BOK-BOK) CENTRAL MEDIAN.
- LICENSE ROAD: CENTRAL ISLAND ROUNDABOUT.
- MAROON WAY: TIMBER FENCE TO ELECTRICAL SITE PERIMETER.

DRAINAGE OUTLET NOTE:
CONTRACTOR TO PROVIDE TEMPORARY OUTLET PROTECTION WORKS WITH TEMPORARY OPEN EARTH DRAIN TO SURFACE IN ACCORDANCE WITH MELBOURNE WATER STANDARDS. FOR DETAILS REFER TO "OPEN EARTH DRAIN" SHEETS 74 TO 82.

END OF ROAD, TRAFFIC / SPLITTER ISLANDS / MEDIAN TREATMENT:
FOR TYPICAL LINE MARKING / SIGNAGE AND GUIDE POST TREATMENT TO END OF ROADS, TRAFFIC / SPLITTER ISLANDS AND MEDIAN SECTIONS REFER TO SHEET NO.04.

BUS ROUTE NOTE:
FOR 'PARCEL C' OVERALL INDICATIVE / NOMINATED FUTURE BUS STOP LOCATION PLAN REFER TO REFERRAL RESPONSE BY "TRANSPORT FOR VICTORIA". REF: FOL/17/68778

THE FOLLOWING ROADS ARE POTENTIAL BUS ROUTES:
• MADISSON AVENUE (STAGE 29 TO 30)
• LICENSE ROAD
• SILK DRIVE

ELECTRICAL NOTE:
ELECTRICAL SERVICE OFFSET TO BE LOCALLY ADJUSTED TO 2.1m TO ACHIEVE CLEARANCE FROM 615Ø STORMWATER DRAINAGE PIPE

PARCEL C SUMMARY:
TITLE: LOT 3 LP6069
ADDRESS: 146 DIGGERS REST-COMADAI ROAD, DIGGERS REST, 3427
AREA: 67.60 Ha
LOTS: 720 APPROX. LOTS

STAGE 31 SUMMARY:
TITLE: LOT D PS821100T
AREA: 4.01 Ha
LOTS: 56 LOTS

BLOOMDALE PROJECT D.C.E. REFERENCES

PROJECT	STATUS	CONTRACT REF.
TEMP. OPEN EARTH DRAIN OUTFALL	EXISTING / BUILT	12340.17T0
375Ø BRANCH SEWER	EXISTING / BUILT	12340.52S
LICENSE RD SEWAGE P.S. & R.M. (TEMP)	EXISTING / BUILT	12340.52RM
PARCEL A (STAGES 11 TO 19)	EXISTING / BUILT	12340.11 - 12340.19
PARCEL B (STAGES 23 TO 28)	EXISTING / BUILT	12563.23 - 12563.28
PARCEL C M.W. WETLANDS	FUTURE	12563.50
PARCEL C M.W. WATERWAY / CHANNEL	FUTURE	12655.1
PARCEL C LICENSE RD CULVERTS	FUTURE	12655.2
PARCEL C (STAGE 32 TO 44)	FUTURE	12655.32 - 12655.44
PARCEL C (SEWAGE P.S. AND R.M.)	FUTURE	12655.51

BLOOMDALE PROJECT D.C.E. REFERENCES

PROJECT	STATUS	CONTRACT REF.
PARCEL C (BRANCH SEWER SOUTH SEC.)	EXISTING	12655.52
PARCEL C SEDIMENT POND	EXISTING	12655.1A
PARCEL C (STAGE 29)	EXISTING	12655.29RD & SW
PARCEL C (STAGE 29 SCHEME DRAIN)	EXISTING	12655.29MW
PARCEL C (STAGE 30)	EXISTING	12655.30RD & SW
PARCEL C (STAGE 31)	PROPOSED	12655.31RD & SW
PARCEL C (STAGE 31 SCHEME DRAIN)	PROPOSED	12655.31MW
PARCEL C (IT05 INTERSECTION)	PROPOSED	12655.53

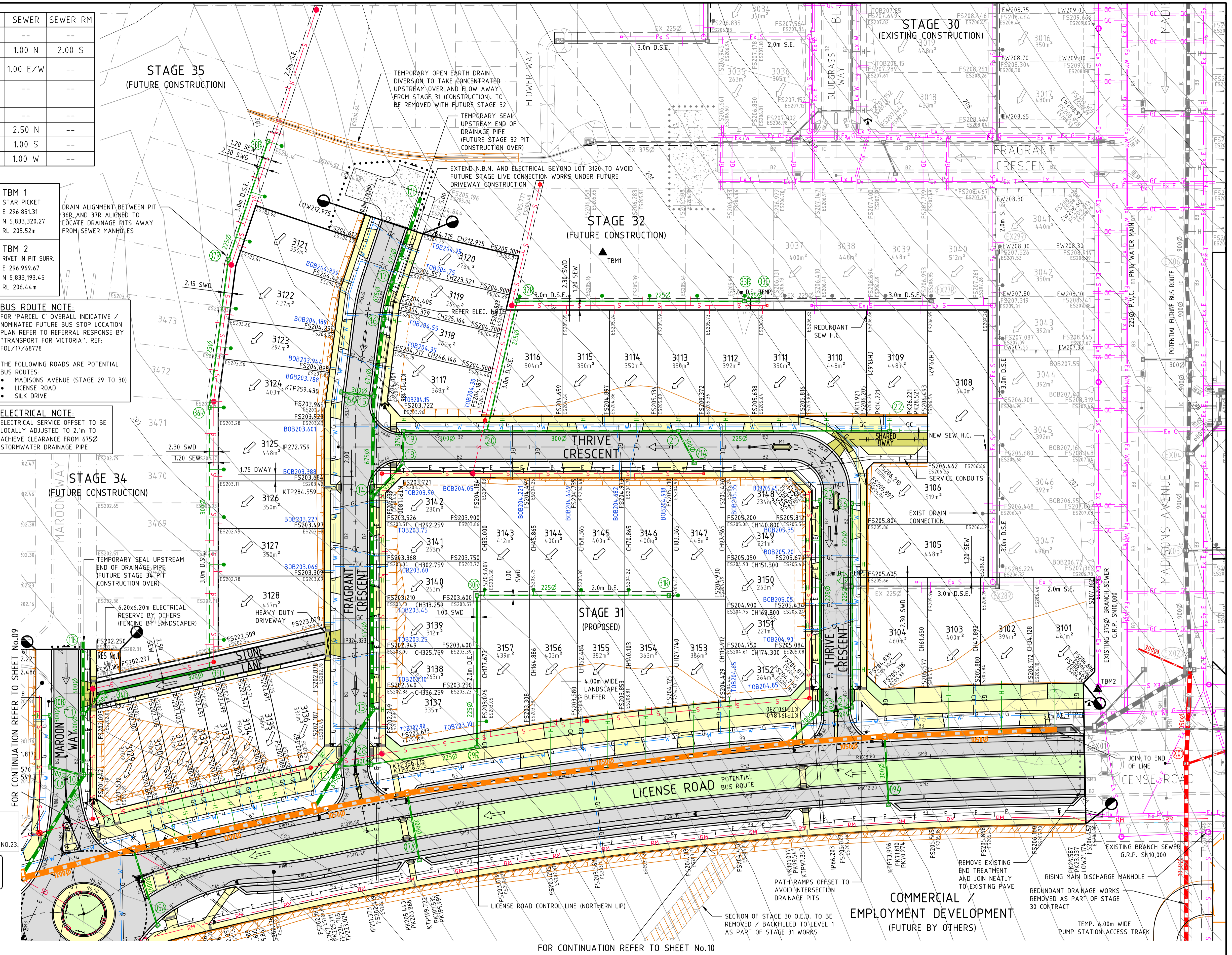
WARNING!
THE LOCATION OF EXISTING SERVICES SHOWN ON THESE PLANS MUST BE PROVEN ON SITE. THE APPROPRIATE AUTHORITY MUST BE CONTACTED AND THE SERVICES LOCATED PRIOR TO COMMENCEMENT OF ANY WORKS.

L.A.T.M. NOTE:
FOR FULL DETAILS OF ALL SIGNAGE AND LINE MARKING TREATMENT REFER TO SHEET NO.23

DIAL BEFORE YOU DIG
www.1100.com.au

DANGER
HIGH VOLTAGE UNDERGROUND ELECTRICAL. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE CABLES.

BEWARE!!
TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263



REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
Date 30/10/18
AN 1991122
Designed K.PHAL
Date 30/10/18
AN 1871742
Verified R.MASON
Date 20/11/18
AN 7051899
Approved T.LIAKOPOULOS
Date 30/11/18
AN 888490

APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 3/12/2019

LEGEND

- W - EXISTING WATER MAIN
- G - EXISTING GAS MAIN
- E - EXISTING ELECTRICAL CABLE
- S - EXISTING SEWER MAIN & MANHOLE
- T - EXISTING TELECOMM. CABLE AND PIT
- SD - EXISTING STORMWATER DRAIN & PIT
- MS - EXISTING MELBOURNE WATER SCHEME DRAIN
- PI - EXISTING PROPERTY INLETS
- HC - EXISTING HOUSE DRAIN (TYP. 1.0m INSIDE LOTS)
- GC - EXISTING GAS CONDUIT
- WC - EXISTING WATER CONDUIT
- PS - PERMANENT SURVEY MARK
- TS - TEMPORARY BENCH MARK
- SD - AG DRAIN
- W - WATER
- T - TELECOMMUNICATIONS
- E - ELECTRICITY
- G - GAS
- SS - STREET NAME SIGN
- RA - REGRADE LOT AT MIN 1 IN 150
- AP - ASPHALT PAVEMENT
- CP - CONC FOOTPATH / DRIVEWAY
- HD - HEAVY DUTY DRIVEWAY
- LA - LANDSCAPING
- FO - FILLING OVER 200mm
- SD - STORMWATER DRAIN & PIT
- RE - PREVIOUS EXISTING DRAIN REMOVED
- RP - PREVIOUS EXISTING PIT REMOVED
- SD - PREVIOUS STAGE SW DRAIN & PIT
- MS - MELBOURNE WATER SCHEME DRAIN
- PI - PROPERTY INLETS
- HC - HOUSE DRAIN (TYP. 1.0m INSIDE LOTS)
- GC - GAS CONDUIT
- WC - WATER CONDUIT
- PS - PERMANENT SURVEY MARK
- TS - TEMPORARY BENCH MARK
- SD - AG DRAIN

AVID
Property Group

Coords: MGA
Levels: AHD

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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COMADAI ROAD, DIGGERS REST 3427
DETAIL PLAN
SHEET 01 OF 04
Drawing No. 12655.31DP01 Rev 5
Sheet No. 08 CONSTRUCTION
© Dalton Consulting Engineers Pty Ltd

DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

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.

STREET NAME	WATER	GAS	N.B.N	ELEC.	SEWER	SEWER RM
FRAGRANT CRESCENT ↕	2.70 W	2.20 W	1.85 E	2.40 E	--	--
LICENSE ROAD	8.20 N	7.70 N	3.00 S	3.60 S	1.00 N	2.00 S
MAROON WAY	2.70 W	2.20 W	1.85 E	2.40 E	1.00 E/W	--
SHARED DRIVEWAY (SERVICE CONDUITS)	2.70 N	2.20 N	0.80 S	1.40 S	--	--
SILK DRIVE	2.70 E	2.20 E	1.85 W	2.60 W	--	--
STONE LANE (LANEWAY)	--	--	--	--	2.50 N	--
THRIVE CRESCENT ↔	2.70 N	2.20 N	1.85 S	2.60 S	1.00 S	--
THRIVE CRESCENT ↕	2.70 E	2.20 E	1.85 W	2.60 W	1.00 W	--

STAGE 31 ROAD PAVEMENT CLASSIFICATION NOTE:

REFER 'PARCEL C - STAGES 31-41 PAVEMENT REPORT' BY TONKIN & TAYLOR (REF: 1004019.R2)

STREET NAME	CLASS	VOLUME (v.p.d.)	REPORT TYPE
FRAGRANT CRESCENT	ACCESS PLACE	≤ 500	2
LICENSE ROAD	CONNECTOR STREET	≤ 5,000	6
MAROON WAY	ACCESS PLACE	≤ 500	2
ROUNDABOUT	CONNECTOR STREET	≤ 5,000	C
SILK DRIVE	CONNECTOR STREET	≤ 5,000	6
STONE LANE	ACCESS LANE	≤ 200	1
THRIVE CRESCENT	ACCESS LANE	≤ 200	1

CURVED SWD ALIGNMENT NOTE:
 TP1, TP2 ETC. INDICATES TANGENT POINT OF CURVED ALIGNMENT FOR STORMWATER DRAIN. SECTION TO BE CONSTRUCTED USING PIPE SEGMENTS WITH DEFLECTIONS AT JOINTS WITH CONCRETE PIPE BANDAGE AS PER M.W. STANDARDS.

ALIGNMENT TP1 TO TP2:
 DIAMETER: 1050
 ARC LENGTH: 18.40m
 RADIUS C.L.: 15.00m
 TP SETOUT: REFER PIT SCHEDULES

LANDSCAPING NOTES:
 WORKS / CONSTRUCTION BY LANDSCAPER (C.D.A. DESIGN GROUP):
 1. LICENSE ROAD: 4.00m WIDE LANDSCAPED BUFFER ZONE TO NORTHERN NATURE STRIP.
 2. LICENSE ROAD: 5.40m WIDE (BOK-BOK) CENTRAL MEDIAN.
 3. LICENSE ROAD: CENTRAL ISLAND ROUNDABOUT.
 4. MAROON WAY: TIMBER FENCE TO ELECTRICAL SITE PERIMETER.

BUS ROUTE NOTE:
 FOR 'PARCEL C' OVERALL INDICATIVE / NOMINATED FUTURE BUS STOP LOCATION PLAN REFER TO REFERRAL RESPONSE BY 'TRANSPORT FOR VICTORIA'. REF: FOL/17/68778

THE FOLLOWING ROADS ARE POTENTIAL BUS ROUTES:

- MADISONS AVENUE (STAGE 29 TO 30)
- LICENSE ROAD
- UN-NAMED COLLECTOR

PARCEL C SUMMARY:
 TITLE: LOT 3 LP6069
 ADDRESS: 146 DIGGERS REST-COIMADAI ROAD
 DIGGERS REST, 3427
 AREA: 67.60 Ha
 LOTS: 720 APPROX. LOTS

STAGE 31 SUMMARY:
 TITLE: LOT D P5821100T
 AREA: 4.01 Ha
 LOTS: 56 LOTS

BLOOMDALE PROJECT D.C.E. REFERENCES

PROJECT	STATUS	CONTRACT REF.
TEMP. OPEN EARTH DRAIN OUTFALL	EXISTING / BUILT	12340.17T0
3750 BRANCH SEWER	EXISTING / BUILT	12340.52S
LICENSE RD SEWAGE P.S. & R.M. (TEMP)	EXISTING / BUILT	12340.52RM
PARCEL A (STAGES 11 TO 19)	EXISTING / BUILT	12340.11 - 12340.19
PARCEL B (STAGES 23 TO 28)	EXISTING / BUILT	12563.23 - 12563.28
PARCEL C M.W. WETLANDS	FUTURE	12563.50
PARCEL C M.W. WATERWAY / CHANNEL	FUTURE	12655.1
PARCEL C LICENSE RD CULVERTS	FUTURE	12655.2
PARCEL C (STAGE 32 TO 44)	FUTURE	12655.32 - 12655.44
PARCEL C (SEWAGE P.S. AND R.M.)	FUTURE	12655.51

BLOOMDALE PROJECT D.C.E. REFERENCES

PROJECT	STATUS	CONTRACT REF.
PARCEL C (BRANCH SEWER SOUTH SEC.)	EXISTING	12655.52
PARCEL C SEDIMENT POND	EXISTING	12655.1A
PARCEL C (STAGE 29)	EXISTING	12655.29RD & SW
PARCEL C (STAGE 29 SCHEME DRAIN)	EXISTING	12655.29MW
PARCEL C (STAGE 30)	EXISTING	12655.30RD & SW
PARCEL C (STAGE 31)	PROPOSED	12655.31RD & SW
PARCEL C (STAGE 31 SCHEME DRAIN)	PROPOSED	12655.31MW
PARCEL C (IT05 INTERSECTION)	PROPOSED	12655.53

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.



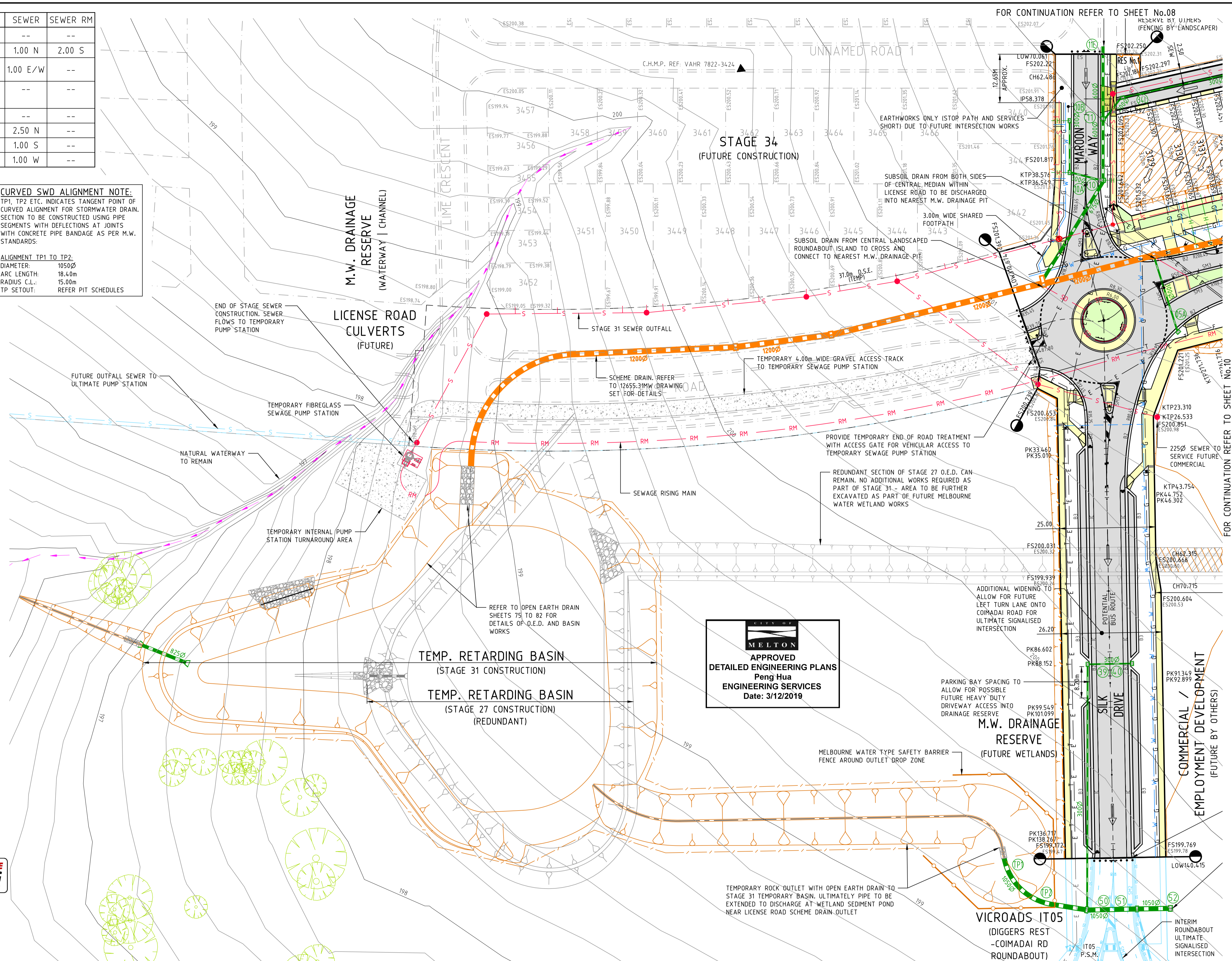
DANGER
 HIGH VOLTAGE UNDERGROUND ELECTRICAL. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE CABLES.

BEWARE!!!
 TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263

REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
 Date 30/10/18
 AN 1991122
 Designed K.PHAL
 Date 30/10/18
 AN 1871742
 Verified R.MASON
 Date 20/11/18
 AN 705189
 Approved T.LIAKOPOULOS
 Date 30/11/18
 AN 888490

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.



MELTON
 APPROVED DETAILED ENGINEERING PLANS
 Peng Hua
 ENGINEERING SERVICES
 Date: 3/12/2019

LEGEND

Ex W	EXISTING WATER MAIN	W	WATER
Ex G	EXISTING GAS MAIN	T	TELECOMMUNICATIONS
Ex E	EXISTING ELECTRICAL CABLE	E	ELECTRICITY
Ex S	EXISTING SEWER MAIN & MANHOLE	G	GAS
Ex T	EXISTING TELECOMM. CABLE AND PIT	ST	STREET NAME SIGN
Ex P	EXISTING ELEC. POLE & O'HEAD LINES	RE	REGRADE LOT AT MIN 1 IN 150
Ex D	EXISTING STORMWATER DRAIN & PIT	AS	ASPHALT PAVEMENT
Ex M	EXISTING MELBOURNE WATER SCHEME DRAIN	FC	CONC FOOTPATH / DRIVEWAY
Ex I	EXISTING PROPERTY INLETS	HD	HEAVY DUTY DRIVEWAY
Ex H	EXISTING HOUSE DRAIN (TYP. 1.0m INSIDE LOTS)	L	LANDSCAPING
Ex T	EXISTING TREES TO BE REMOVED	GC	GAS CONDUIT
Ex S	EXISTING SURFACE LEVEL	WC	WATER CONDUIT
Ex F	FINISHED SURFACE LEVEL	PM	PERMANENT SURVEY MARK
Ex O	OPEN EARTH DRAIN (O.E.D.)	TM	TEMPORARY BENCH MARK
Ex SD	AG DRAIN		

AVID Property Group

Coords: MGA
 Levels: AHD

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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
 146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
DETAIL PLAN
SHEET 02 OF 04
 Drawing No. 12655.31DP02 Rev 5
 Sheet No. 09 CONSTRUCTION
 © Dalton Consulting Engineers Pty Ltd

DALTON CONSULTING ENGINEERS
 ABN 78 429 221 049
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

VICTORIA
 T 61 3 9813 7400
 W dceng.com.au

FOR CONTINUATION REFER TO SHEET No.08
 FOR CONTINUATION REFER TO SHEET No.10

STREET NAME	WATER	GAS	N.B.N	ELEC.	SEWER	SEWER RM
FRAGRANT CRESCENT ↕	2.70 W	2.20 W	1.85 E	2.40 E	--	--
LICENSE ROAD	8.20 N	7.70 N	3.00 S	3.60 S	1.00 N	2.00 S
MAROON WAY	2.70 W	2.20 W	1.85 E	2.40 E	1.00 E/W	--
SHARED DRIVEWAY (SERVICE CONDUITS)	2.70 N	2.20 N	0.80 S	1.40 S	--	--
SILK DRIVE	2.70 E	2.20 E	1.85 W	2.60 W	--	--
STONE LANE (LANEWAY)	--	--	--	--	2.50 N	--
THRIVE CRESCENT ↔	2.70 N	2.20 N	1.85 S	2.60 S	1.00 S	--
THRIVE CRESCENT ↕	2.70 E	2.20 E	1.85 W	2.60 W	1.00 W	--

STAGE 31 ROAD PAVEMENT CLASSIFICATION NOTE:

REFER 'PARCEL C - STAGES 31-41 PAVEMENT REPORT' BY TONKIN & TAYLOR (REF: 1004019.R2)

STREET NAME	CLASS	VOLUME (v.p.d.)	REPORT TYPE
FRAGRANT CRESCENT	ACCESS PLACE	≤ 500	2
LICENSE ROAD	CONNECTOR STREET	≤ 5,000	6
MAROON WAY	ACCESS STREET	≤ 1,000	3
ROUNDBOUT	CONNECTOR STREET	≤ 5,000	C
SILK DRIVE	CONNECTOR STREET	≤ 5,000	6
STONE LANE	ACCESS LANE	≤ 200	1
THRIVE CRESCENT	ACCESS LANE	≤ 200	1

LANDSCAPING NOTES:
WORKS / CONSTRUCTION BY LANDSCAPER (C.D.A. DESIGN GROUP):

- LICENSE ROAD: 4.00m WIDE LANDSCAPED BUFFER ZONE TO NORTHERN NATURE STRIP.
- LICENSE ROAD: 5.40m WIDE (BOK-BOK) CENTRAL MEDIAN.
- LICENSE ROAD: CENTRAL ISLAND ROUNDBOUT.
- MAROON WAY: TIMBER FENCE TO ELECTRICAL SITE PERIMETER.

BUS ROUTE NOTE:
FOR 'PARCEL C' OVERALL INDICATIVE / NOMINATED FUTURE BUS STOP LOCATION PLAN REFER TO REFERRAL RESPONSE BY "TRANSPORT FOR VICTORIA". REF: FOL/17/68778

THE FOLLOWING ROADS ARE POTENTIAL BUS ROUTES:

- MADISONS AVENUE (STAGE 29 TO 30)
- LICENSE ROAD
- UN-NAMED COLLECTOR

PARCEL C SUMMARY:
TITLE: LOT 3 LP6069
ADDRESS: 146 DIGGERS REST-COIMADAI ROAD
DIGGER REST, 3427
AREA: 67.60 Ha
LOTS: 720 APPROX. LOTS

STAGE 31 SUMMARY:
TITLE: LOT D P5821100T
AREA: 4.01 Ha
LOTS: 56 LOTS

BLOOMDALE PROJECT D.C.E. REFERENCES

PROJECT	STATUS	CONTRACT REF.
TEMP. OPEN EARTH DRAIN OUTFALL	EXISTING / BUILT	12340.17T0
375Ø BRANCH SEWER	EXISTING / BUILT	12340.52S
LICENSE RD SEWAGE P.S. & R.M. (TEMP)	EXISTING / BUILT	12340.52RM
PARCEL A (STAGES 11 TO 19)	EXISTING / BUILT	12340.11 - 12340.19
PARCEL B (STAGES 23 TO 28)	EXISTING / BUILT	12563.23 - 12563.28
PARCEL C M.W. WETLANDS	FUTURE	12563.50
PARCEL C M.W. WATERWAY / CHANNEL	FUTURE	12655.1
PARCEL C LICENSE RD CULVERTS	FUTURE	12655.2
PARCEL C (STAGE 32 TO 44)	FUTURE	12655.32 - 12655.44
PARCEL C (SEWAGE P.S. AND R.M.)	FUTURE	12655.51

BLOOMDALE PROJECT D.C.E. REFERENCES

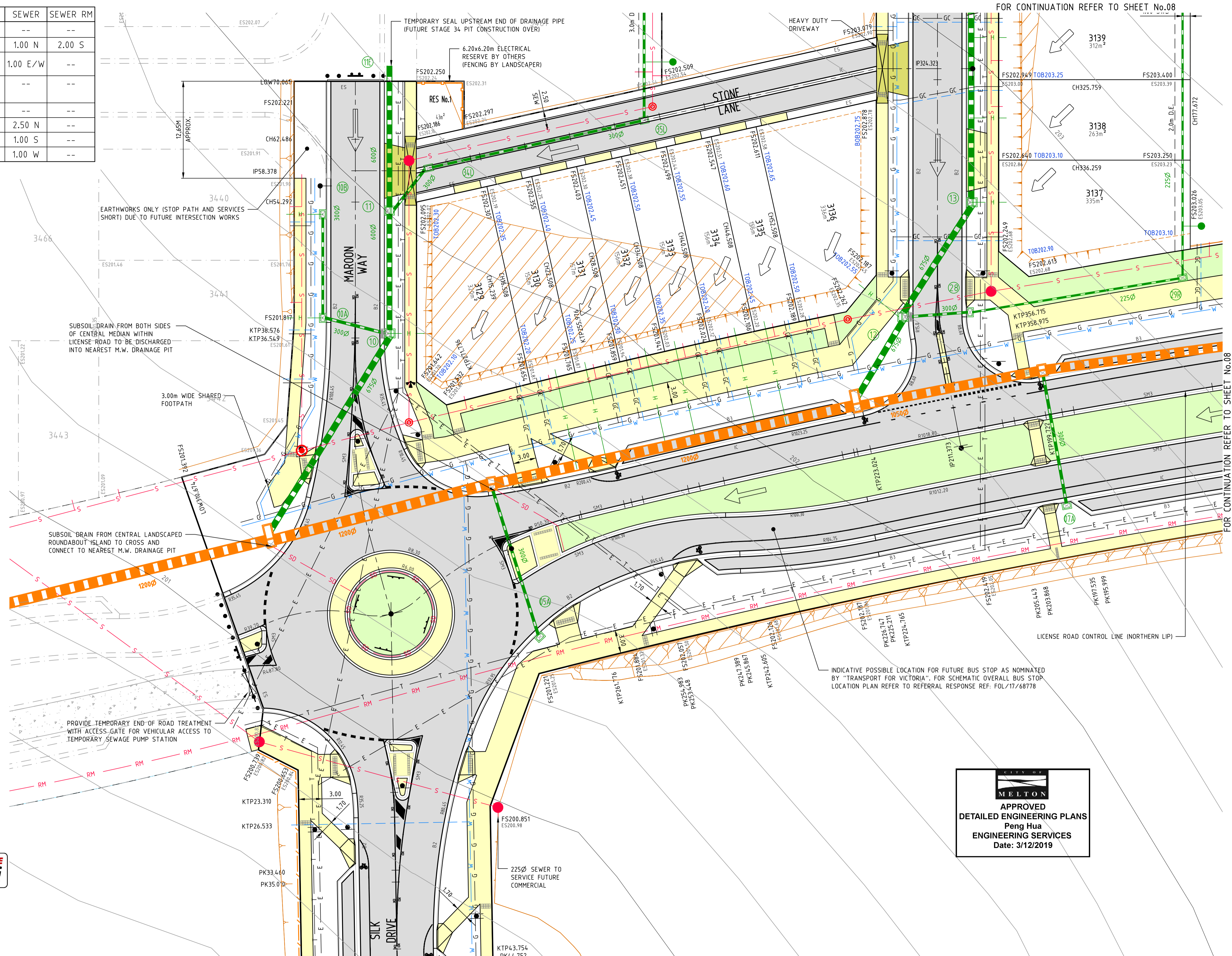
PROJECT	STATUS	CONTRACT REF.
PARCEL C (BRANCH SEWER SOUTH SEC.)	EXISTING	12655.52
PARCEL C SEDIMENT POND	EXISTING	12655.1A
PARCEL C (STAGE 29)	EXISTING	12655.29RD & SW
PARCEL C (STAGE 29 SCHEME DRAIN)	EXISTING	12655.29MW
PARCEL C (STAGE 30)	EXISTING	12655.30RD & SW
PARCEL C (STAGE 31)	PROPOSED	12655.31RD & SW
PARCEL C (STAGE 31 SCHEME DRAIN)	PROPOSED	12655.31MW
PARCEL C (IT05 INTERSECTION)	PROPOSED	12655.53

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.



DANGER
HIGH VOLTAGE UNDERGROUND ELECTRICAL. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE CABLES.

BEWARE!!!
TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS. TEL: 9253 8263



REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
Date 30/10/18
AN 1991122
Designed K.PHAL
Date 30/10/18
AN 1871742
Verified R.MASON
Date 20/11/18
AN 705189
Approved T.LIAKOPOULOS
Date 30/11/18
AN 888490

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
- Ex P - EXISTING ELEC. POLE & O'HEAD LINES
- Ex SD - EXISTING STORMWATER DRAIN & PIT
- Ex T - EXISTING TREES TO BE REMOVED
- ES20.06 - EXISTING SURFACE LEVEL
- FS21.650 - FINISHED SURFACE LEVEL
- ES21.650 - OPEN EARTH DRAIN (O.E.D.)
- S - SEWER MAIN AND MANHOLE
- SD - STORMWATER DRAIN & PIT
- W - PREVIOUS EXISTING PIT REMOVED
- SW - PREVIOUS STAGE SW DRAIN & PIT
- M - MELBOURNE WATER SCHEME DRAIN
- PI - PROPERTY INLETS
- H - HOUSE DRAIN (TYP. 1.0m INSIDE LOTS)
- GC - GAS CONDUIT
- WC - WATER CONDUIT
- PERM - PERMANENT SURVEY MARK
- TEMP - TEMPORARY BENCH MARK
- SD - AG DRAIN
- W - WATER
- T - TELECOMMUNICATIONS
- E - ELECTRICITY
- G - GAS
- SS - STREET NAME SIGN
- REG - REGRADE LOT AT MIN 1 IN 150
- PA - ASPHALT PAVEMENT
- CF - CONC FOOTPATH / DRIVEWAY
- HD - HEAVY DUTY DRIVEWAY
- LAN - LANDSCAPING
- FILL - FILLING OVER 200mm

AVID
Property Group

Coords: MGA
Levels: AHD

Hor 1:500 0m 5m 10m 20m 30m

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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
DETAIL PLAN
SHEET 04 OF 04
Drawing No. 12655.31DP04 Rev 5
Sheet No. 11 CONSTRUCTION
© Dalton Consulting Engineers Pty Ltd

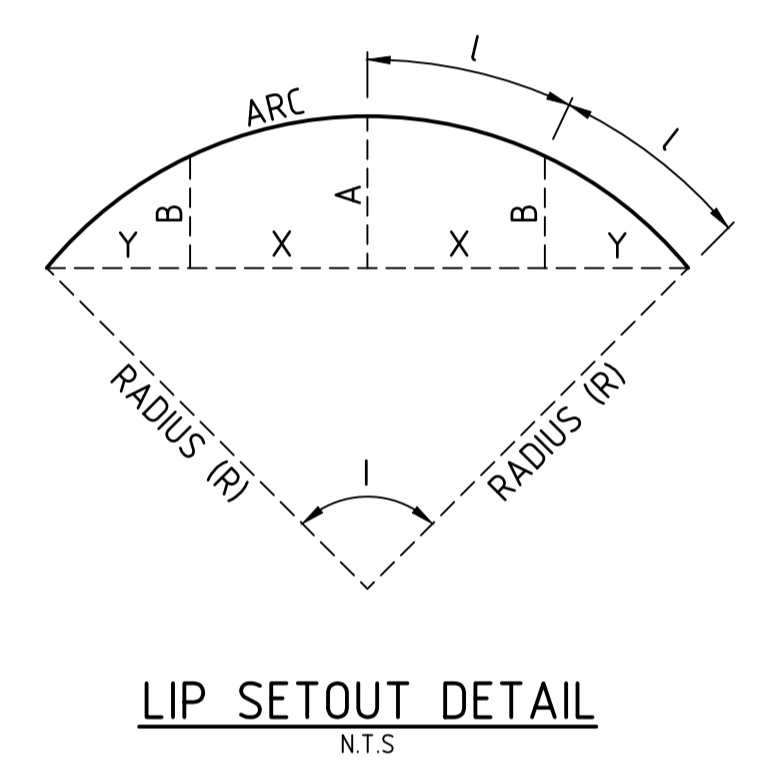
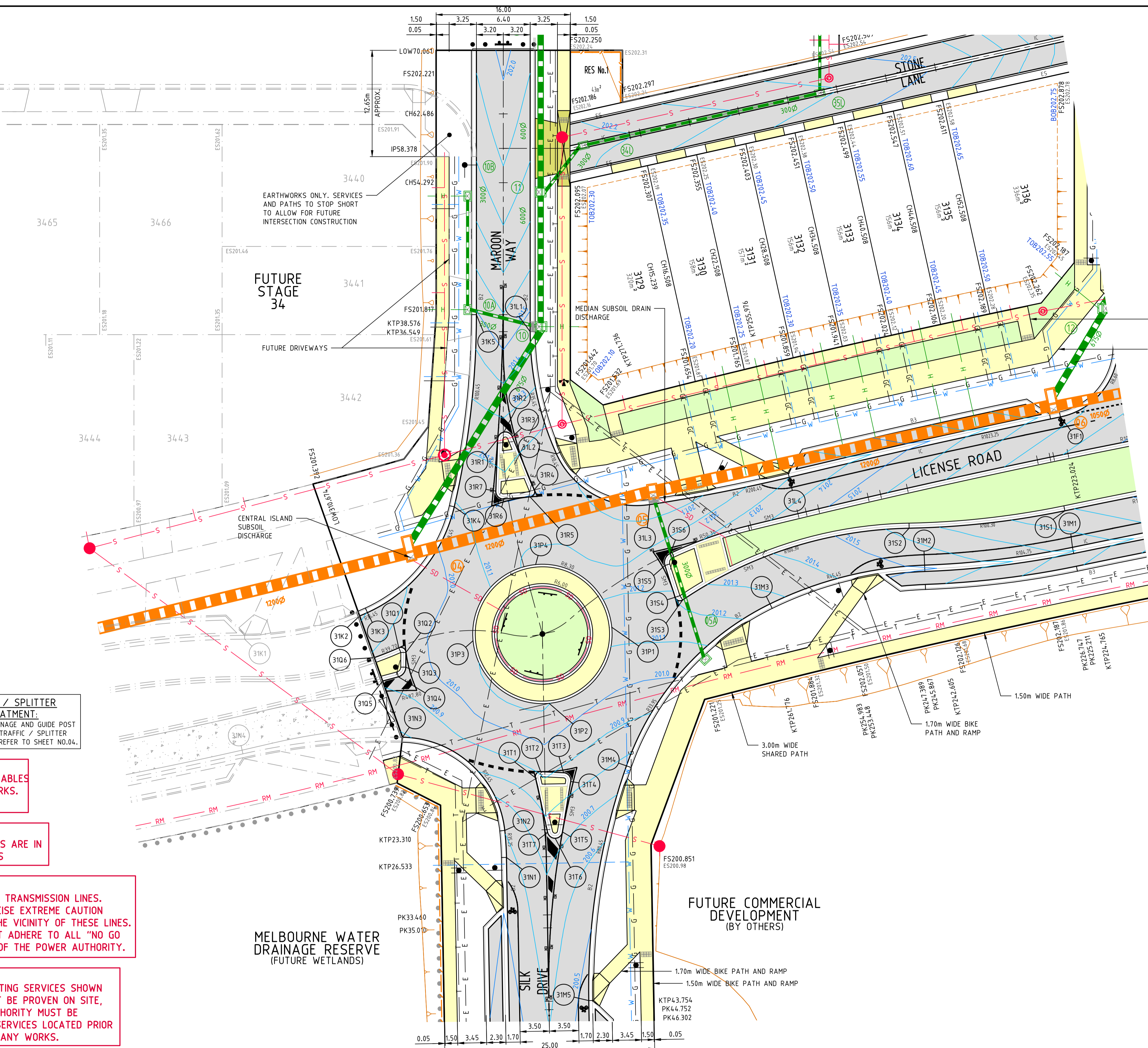
DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

MELTON
APPROVED
DETAILED ENGINEERING PLANS
PENG HUA
ENGINEERING SERVICES
Date: 3/12/2019

Drawing File: C:\126_Springs\Work\DWG\DWG\MEL\12655.31-Bloomdale Stage 31_13201_LDESIGN(D)_A04(1)_A01.DWG
Date: 18/11/2019 11:05am
User: Robert Young

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.



L.A.T.M. NOTE:
 FOR FULL DETAILS OF ALL SIGNAGE AND LINEMARKING TREATMENT REFER TO SHEET NO.23.



END OF ROAD, TRAFFIC / SPLITTER ISLANDS / MEDIAN TREATMENT:
 FOR TYPICAL LINEMARKING / SIGNAGE AND GUIDE POST TREATMENT TO END OF ROADS, TRAFFIC / SPLITTER ISLANDS AND MEDIAN SECTIONS REFER TO SHEET NO.04.

BEWARE!!!
 TELSTRA OPTIC FIBRE CABLES IN THE VICINITY OF WORKS.
 TEL: 9253 8263

CAUTION!!!
 TELSTRA MAJOR CABLES ARE IN THE VICINITY OF WORKS

DANGER
 OVERHEAD ELECTRICITY TRANSMISSION LINES. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN OPERATING IN THE VICINITY OF THESE LINES. THE CONTRACTOR MUST ADHERE TO ALL "NO GO ZONE" REQUIREMENTS OF THE POWER AUTHORITY.

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.

BLOOMDALE PROJECT D.C.E. REFERENCES

PROJECT	STATUS	CONTRACT REF:
TEMP. OPEN EARTH DRAIN OUTFALL	EXISTING / BUILT	12340.17T0
375Ø BRANCH SEWER	EXISTING / BUILT	12340.52S
LICENSE RD SEWAGE P.S. & R.M. (TEMP)	EXISTING / BUILT	12340.52RM
PARCEL A (STAGES 11 TO 19)	EXISTING / BUILT	12340.11 - 12340.19
PARCEL B (STAGES 23 TO 28)	EXISTING / BUILT	12563.23 - 12563.28
PARCEL C M.W. WETLANDS	FUTURE	12563.50
PARCEL C M.W. WATERWAY / CHANNEL	FUTURE	12655.1
PARCEL C LICENSE RD CULVERTS	FUTURE	12655.2
PARCEL C (STAGE 32 TO 44)	FUTURE	12655.32 - 12655.44
PARCEL C (SEWAGE P.S. AND R.M.)	FUTURE	12655.51

BLOOMDALE PROJECT D.C.E. REFERENCES

PROJECT	STATUS	CONTRACT REF:
PARCEL C (BRANCH SEWER SOUTH SEC.)	EXISTING	12655.52
PARCEL C SEDIMENT POND	EXISTING	12655.1A
PARCEL C (STAGE 29)	EXISTING	12655.29RD & SW
PARCEL C (STAGE 29 SCHEME DRAIN)	EXISTING	12655.29MW
PARCEL C (STAGE 30)	EXISTING	12655.30RD & SW
PARCEL C (STAGE 31)	PROPOSED	12655.31RD & SW
PARCEL C (STAGE 31 SCHEME DRAIN)	PROPOSED	12655.31MW
PARCEL C (I105 INTERSECTION)	PROPOSED	12655.53

NO	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
 Date 30/10/18
 AN 1991122
 Designed K.PHAL
 Date 30/10/18
 AN 1871742
 Verified R.MASON
 Date 20/11/18
 AN 705189
 Approved T.LIAKOPOULOS
 Date 30/11/18
 AN 888490

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
- Ex P - EXISTING ELEC. POLE & O'HEAD LINES
- Ex D - EXISTING STORMWATER DRAIN & PIT
- Ex R - EXISTING TREES TO BE REMOVED
- ES20.06 - EXISTING SURFACE LEVEL
- FS21.650 - FINISHED SURFACE LEVEL
- SD - OPEN EARTH DRAIN (O.E.D.)
- AG - AG DRAIN
- S - SEWER MAIN AND MANHOLE
- SD - STORMWATER DRAIN & PIT
- SW - PREVIOUS STAGE SW DRAIN & PIT
- PI - PROPERTY INLETS
- H - HOUSE DRAIN (TYP. 1.0m INSIDE LOTS)
- GC - GAS CONDUIT
- WC - WATER CONDUIT
- TC - TELECOMM. CONDUIT
- SM - PERMANENT SURVEY MARK
- TM - TEMPORARY BENCH MARK
- 155.0 - FINISHED SURFACE CONTOUR
- SD - MELBOURNE WATER SCHEME DRAIN
- OF - OPTIC FIBRE
- W - WATER
- T - TELECOMMUNICATIONS
- E - ELECTRICITY
- G - GAS
- TS - STREET NAME SIGN
- RL - REGRADE LOT AT MIN 1 IN 150
- AP - ASPHALT PAVEMENT
- CF - CONC FOOTPATH / DRIVEWAY
- HD - HEAVY DUTY DRIVEWAY
- LS - LANDSCAPING
- FO - FILLING OVER 200mm

AVID
 Property Group

Coords: MGA
 Levels: AHD

Hor 1:250 0m 2.5m 5m 10m 15m
 Ver 1:25 0m 0.25m 0.5m 1m 1.5m
 Scale @ A1/A3 1:250/1:500

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
INTERSECTION DETAILS
SHEET 05 OF 09
Drawing No. 12655.31ID05 Rev 5
 Sheet No. 16 **CONSTRUCTION**
 © Dalton Consulting Engineers Pty Ltd

DALTON CONSULTING ENGINEERS
 ABN 78 429 221 049
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

VICTORIA
 T 61 3 9813 7400
 W dceng.com.au

Drawing File: C:\124_Synergy\dep\ENERGY-MEL\12655.31-Bloomdale Stage 31_132011_DESIGN\01_A300_04.dwg
 Drawing Title: Maroon Way Amend Stage 34
 Date/Time: Mon Nov 18, 2019 11:05am
 User: Robert Young

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.

ROAD PAVEMENT LINEMARKING LEGEND

BIKE LANE (B.L.)	---	LENGTH: 1000mm	GAP: 3000mm	WIDTH: 100mm
BARRIER LINE - SINGLE (B.L.S.)	---	LENGTH: -	GAP: -	WIDTH: 100mm
CONTINUITY LINE (C.L.)	---	LENGTH: 1000mm	GAP: 3000mm	WIDTH: 150mm
CONTINUITY LINE - INTERSECTION (C.L.I.)	---	LENGTH: 600mm	GAP: 600mm	WIDTH: 150mm
EDGE LINE (E.L.)	---	LENGTH: -	GAP: -	WIDTH: 120mm
GIVE WAY LINE (G.W.L.)	---	LENGTH: 600mm	GAP: 600mm	WIDTH: 300mm
LANE LINE (L.L.)	---	LENGTH: 3000mm	GAP: 9000mm	WIDTH: 100mm
R.R.P.M.'S	☐ ☐ ☐	RAISED REFLECTIVE PAVEMENT MARKERS (SPACED AT 6.00m CENTRES UNLESS NOTED OTHERWISE)		
T.G.S.I.'S	☐ ☐ ☐	TACTILE GROUND SURFACE INDICATORS (AS PER MELTON CITY COUNCIL STANDARDS)		



- BIKE LANE MARKING DETAIL:**
- GENERALLY AS PER AUSTRALIAN STANDARD 1742.9
 - TO INTERSECTION LOCATIONS GENERALLY AS SHOWN.
 - INTERMEDIATE MARKINGS ARE REQUIRED AT INTERVALS NOT EXCEEDING 200m.

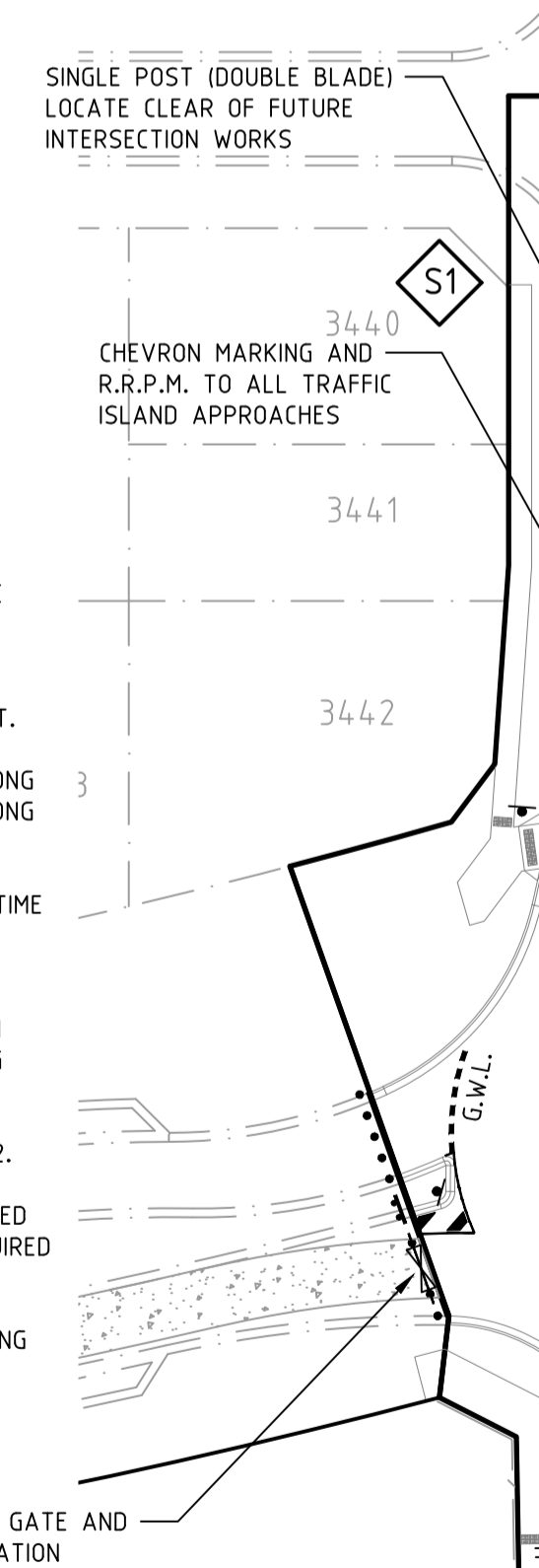
SIGN	TYPE
	S1
R1-3	S2
R2-3(L)	S3
D4-1-1	S4
D4-5 (1800x450)	S5
R1-2	S6
D4-1-2	S7
R2-2(L)	S8
R7-1-4	S9
R7-1-4	S10

SIGN	TYPE
R8-2 (SHARED PATH)	S11
R8-3(L) SEPARATED PATH	S12
R8-3(R) SEPARATED PATH	S13

END OF ROAD AND TRAFFIC / SPLITTER ISLAND TREATMENT:
FOR TYPICAL LINEMARKING / SIGNAGE AND GUIDE POST TREATMENT TO END OF ROADS, TRAFFIC ISLANDS AND SPLITTER ISLANDS REFER TO SHEET NO.04.

- NOTES:**
- ALL WORKS TO BE IN ACCORDANCE WITH AS1742.
 - ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS LINEMARKING AND TRAFFIC MANUALS.
 - LINEMARKING SET-OUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
 - LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT (OR SIMILAR APPROVED LONG LIFE MATERIAL). 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.
 - ANY OBSOLETE LINEMARKING IS TO BE REMOVED BY GRINDING, STRIPPING OR THE APPLICATION OF BITUMEN BINDER AND GRIT PRIOR TO "NEW" LINEMARKING BEING PLACED.
 - RRPMS TO BE PROVIDED IN ACCORDANCE WITH AS1742.
 - ALL RETRO-REFLECTIVE WHITE PAINT SHALL BE PAINTED ON THE FACE TO ALL ISLANDS AND NOSES (NOT REQUIRED FOR ROUND-A-BOUT ISLANDS).
 - NEW LINEMARKING TO BE JOINED SMOOTHLY TO EXISTING WHERE APPLICABLE.
 - ALL EXISTING SIGNS TO REMAIN U.N.O.

TEMPORARY ACCESS GATE AND TRACK TO PUMP STATION



STAGE 32 (FUTURE CONSTRUCTION)

FRAGRANT CRESCENT

STAGE 30 (EXISTING CONSTRUCTION)

STAGE 34 (FUTURE CONSTRUCTION)

THRIVE CRESCENT

LICENSE ROAD

FUTURE COMMERCIAL (BY OTHERS)

MADISONS AVENUE

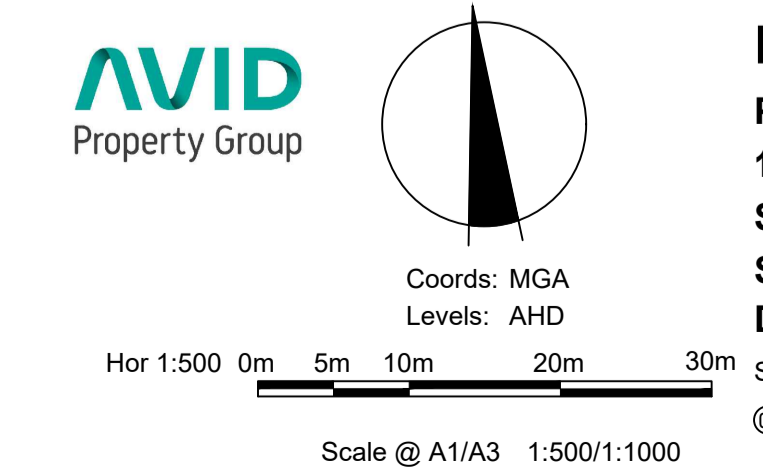
POTENTIAL FUTURE BUS ROUTE

POTENTIAL FUTURE BUS ROUTE

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 3/12/2019

BUS ROUTE NOTE:
FOR 'PARCEL C' OVERALL INDICATIVE / NOMINATED FUTURE BUS STOP LOCATION PLAN REFER TO REFERRAL RESPONSE BY "TRANSPORT FOR VICTORIA". REF: FOL/17/68778

THE FOLLOWING ROADS ARE POTENTIAL BUS ROUTES:
 • MADISONS AVENUE (STAGE 29 TO 30)
 • LICENSE ROAD
 • SILK DRIVE



BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
SIGNAGE AND LINEMARKING PLAN
SHEET 01 OF 03
Drawing No. 12655.31LM01 Rev 5
Sheet No. 23 CONSTRUCTION
© Dalton Consulting Engineers Pty Ltd

DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

Drawing File: C:\124_Synergy\Draw\SIGNAGE\MEL\2655.31-Bloomdale Stage 31_1320\1_DESIGN\01_LAM01_04.dwg
 Drawing Title: Signage
 Date/Time: Mon Nov 18 2019 11:56am
 Author: Robert Young

REV	AMENDMENTS	DATE	APP'D.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
 Date 30/10/18
 AN 1991122
 Designed K.PHAL
 Date 30/10/18
 AN 1871742
 Verified R.MASON
 Date 20/11/18
 AN 705189
 Approved T.LIAKOPOULOS
 Date 30/11/18
 AN 888490

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.

ROAD PAVEMENT LINEMARKING LEGEND

BIKE LANE (B.L.)	---	LENGTH: 1000mm	GAP: 3000mm	WIDTH: 100mm
BARRIER LINE - SINGLE (B.L.S.)	---	LENGTH: -	GAP: -	WIDTH: 100mm
CONTINUITY LINE (C.L.)	---	LENGTH: 1000mm	GAP: 3000mm	WIDTH: 150mm
CONTINUITY LINE - INTERSECTION (C.L.I.)	---	LENGTH: 600mm	GAP: 600mm	WIDTH: 150mm
EDGE LINE (E.L.)	---	LENGTH: -	GAP: -	WIDTH: 120mm
GIVE WAY LINE (G.W.L.)	---	LENGTH: 600mm	GAP: 600mm	WIDTH: 300mm
LANE LINE (L.L.)	---	LENGTH: 3000mm	GAP: 9000mm	WIDTH: 100mm
R.R.P.M.'S	⊠ ⊠ ⊠	RAISED REFLECTIVE PAVEMENT MARKERS (SPACED AT 6.00m CENTRES UNLESS NOTED OTHERWISE)		
T.G.S.I.'S	⊠ ⊠ ⊠	TACTILE GROUND SURFACE INDICATORS (AS PER MELTON CITY COUNCIL STANDARDS)		

SIGN	TYPE
	S1
R1-3	S2
R2-3(L)	S3
D4-1-1	S4
D4-5 (1800x450)	S5
R1-2	S6
D4-1-2	S7
R2-2(L)	S8
R7-1-4	S9
R7-1-4	S10



BIKE LANE MARKING DETAIL:

1. GENERALLY AS PER AUSTRALIAN STANDARD 1742.9
2. TO INTERSECTION LOCATIONS GENERALLY AS SHOWN.
3. INTERMEDIATE MARKINGS ARE REQUIRED AT INTERVALS NOT EXCEEDING 200m.

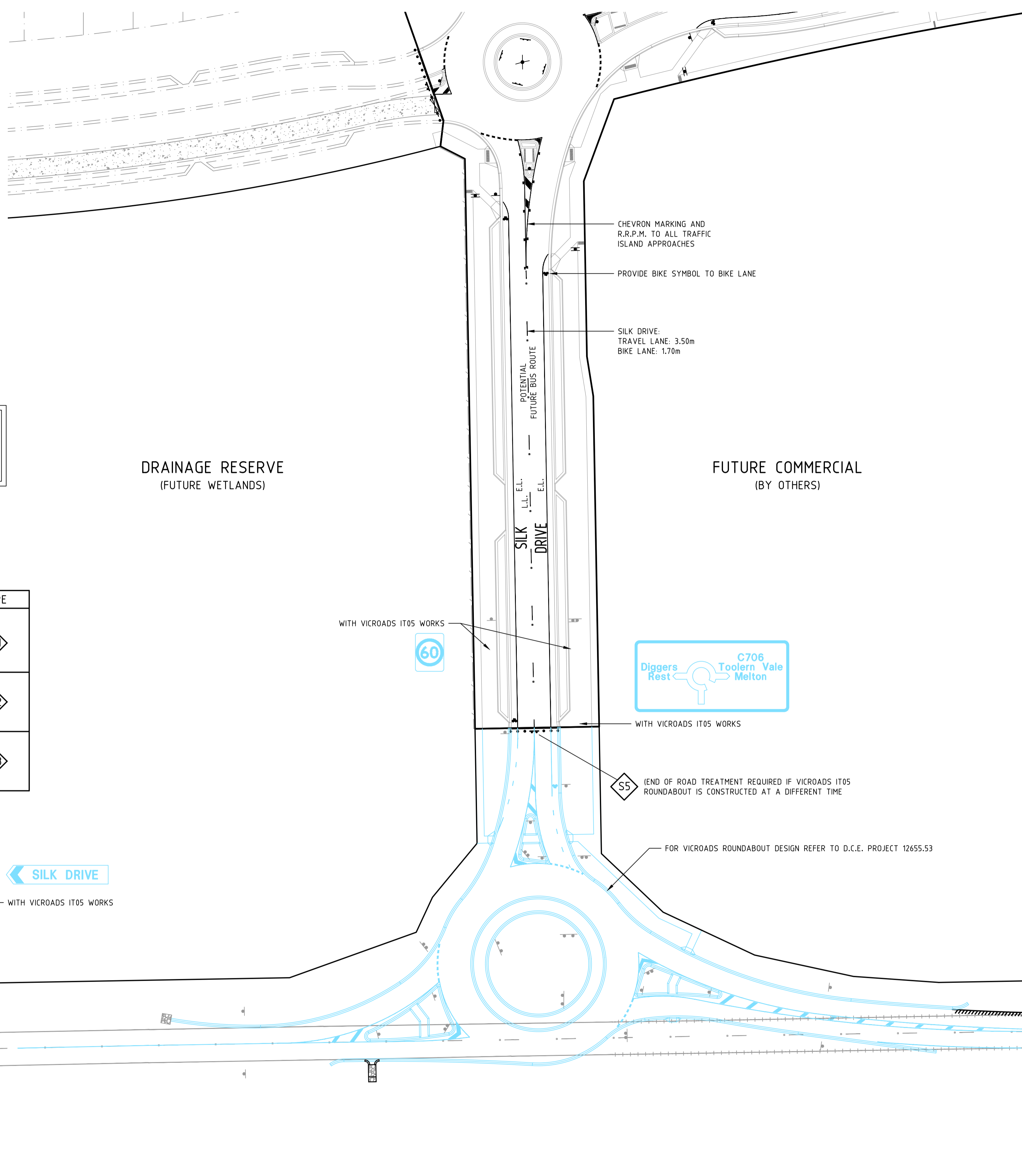
END OF ROAD AND TRAFFIC / SPLITTER ISLAND TREATMENT:

FOR TYPICAL LINEMARKING / SIGNAGE AND GUIDE POST TREATMENT TO END OF ROADS, TRAFFIC ISLANDS AND SPLITTER ISLANDS REFER TO SHEET NO.04.

SIGN	TYPE
R8-2 (SHARED PATH)	S11
R8-3(L) SEPARATED PATH	S12
R8-3(R) SEPARATED PATH	S13

NOTES:

1. ALL WORKS TO BE IN ACCORDANCE WITH AS1742.
2. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS LINEMARKING AND TRAFFIC MANUALS.
3. LINEMARKING SET-OUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
4. LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT (OR SIMILAR APPROVED LONG LIFE MATERIAL). 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.
5. ANY OBSOLETE LINEMARKING IS TO BE REMOVED BY GRINDING, STRIPPING OR THE APPLICATION OF BITUMEN BINDER AND GRIT PRIOR TO "NEW" LINEMARKING BEING PLACED.
6. RRPMS TO BE PROVIDED IN ACCORDANCE WITH AS1742.
7. ALL RETRO-REFLECTIVE WHITE PAINT SHALL BE PAINTED ON THE FACE TO ALL ISLANDS AND NOSES (NOT REQUIRED FOR ROUND-A-BOUT ISLANDS).
8. NEW LINEMARKING TO BE JOINED SMOOTHLY TO EXISTING WHERE APPLICABLE.
9. ALL EXISTING SIGNS TO REMAIN U.N.O.



MELTON
APPROVED
DETAILED ENGINEERING PLANS
 Peng Hua
 ENGINEERING SERVICES
 Date: 3/12/2019

Drawing File: C:\24 Synergy\Area\SYNERGY-MEL\12655-31-Bloomdale Stage 31_1320\1_DESIGN\01_A300_04_A01
 Drawing Title: 12655-31-Bloomdale Stage 31_1320_04_A01
 Date/Time: Mon Nov 18, 2019 11:57am
 User: Robert Young

REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
 Date 30/10/18
 AN 1991122
 Designed K.PHAL
 Date 30/10/18
 AN 1871742
 Verified R.MASON
 Date 20/11/18
 AN 705189
 Approved T.LIAKOPOULOS
 Date 30/11/18
 AN 888490

BUS ROUTE NOTE:
 FOR 'PARCEL C' OVERALL INDICATIVE / NOMINATED FUTURE BUS STOP LOCATION PLAN REFER TO REFERRAL RESPONSE BY "TRANSPORT FOR VICTORIA". REF: FOL/17/68778

THE FOLLOWING ROADS ARE POTENTIAL BUS ROUTES:

- MADISON'S AVENUE (STAGE 29 TO 30)
- LICENSE ROAD
- SILK DRIVE

AVID
 Property Group

Coords: MGA
 Levels: AHD

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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
 146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
SIGNAGE AND LINEMARKING PLAN
SHEET 02 OF 03
Drawing No. 12655.31LM02 Rev 5
 Sheet No. 24 **CONSTRUCTION**

DALTON CONSULTING ENGINEERS
 ABN 78 429 221 049
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

VICTORIA
 T 61 3 9813 7400
 W dceng.com.au

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.

ROAD PAVEMENT LINEMARKING LEGEND

BIKE LANE (B.L.)	---	LENGTH: 1000mm	GAP: 3000mm	WIDTH: 100mm
BARRIER LINE - SINGLE (B.L.S.)	---	LENGTH: -	GAP: -	WIDTH: 100mm
CONTINUITY LINE (C.L.)	---	LENGTH: 1000mm	GAP: 3000mm	WIDTH: 150mm
CONTINUITY LINE - INTERSECTION (C.L.I.)	---	LENGTH: 600mm	GAP: 600mm	WIDTH: 150mm
EDGE LINE (E.L.)	---	LENGTH: -	GAP: -	WIDTH: 120mm
GIVE WAY LINE (G.W.L.)	---	LENGTH: 600mm	GAP: 600mm	WIDTH: 300mm
LANE LINE (L.L.)	---	LENGTH: 3000mm	GAP: 9000mm	WIDTH: 100mm
R.R.P.M.'S	⊠ ⊠ ⊠	RAISED REFLECTIVE PAVEMENT MARKERS (SPACED AT 6.00m CENTRES UNLESS NOTED OTHERWISE)		
T.G.S.I.'S	⊠ ⊠ ⊠	TACTILE GROUND SURFACE INDICATORS (AS PER MELTON CITY COUNCIL STANDARDS)		

SIGN	TYPE
	S1
	S2
	S3
	S4
	S5
	S6
	S7
	S8
	S9
	S10



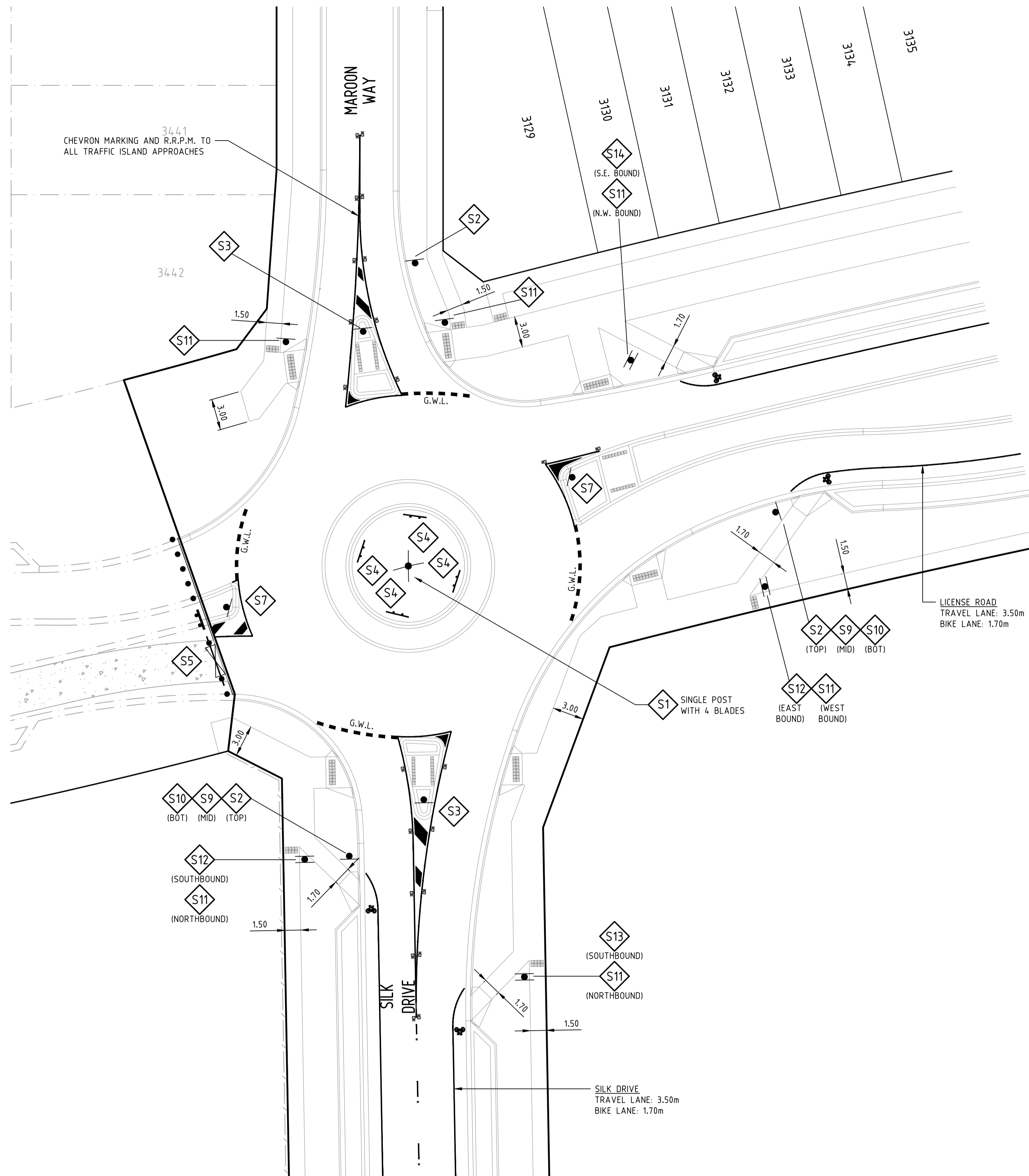
BIKE LANE MARKING DETAIL:

- GENERALLY AS PER AUSTRALIAN STANDARD 1742.9
- TO INTERSECTION LOCATIONS GENERALLY AS SHOWN.
- INTERMEDIATE MARKINGS ARE REQUIRED AT INTERVALS NOT EXCEEDING 200m.

SIGN	TYPE
	S11
	S12
	S13
	S14

NOTES:

- ALL WORKS TO BE IN ACCORDANCE WITH AS1742.
- ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH VICROADS LINEMARKING AND TRAFFIC MANUALS.
- LINEMARKING SET-OUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.
- LINEMARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT (OR SIMILAR APPROVED LONG LIFE MATERIAL). 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.
- ANY OBSOLETE LINEMARKING IS TO BE REMOVED BY GRINDING, STRIPPING OR THE APPLICATION OF BITUMEN BINDER AND GRIT PRIOR TO "NEW" LINEMARKING BEING PLACED.
- RRPM'S TO BE PROVIDED IN ACCORDANCE WITH AS1742.
- ALL RETRO-REFLECTIVE WHITE PAINT SHALL BE PAINTED ON THE FACE TO ALL ISLANDS AND NOSES (NOT REQUIRED FOR ROUND-A-BOUNT ISLANDS).
- NEW LINEMARKING TO BE JOINED SMOOTHLY TO EXISTING WHERE APPLICABLE.
- ALL EXISTING SIGNS TO REMAIN U.N.O.



MELTON
APPROVED
DETAILED ENGINEERING PLANS
 Peng Hua
 ENGINEERING SERVICES
 Date: 3/12/2019

REV	AMENDMENTS	DATE	APP'D.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

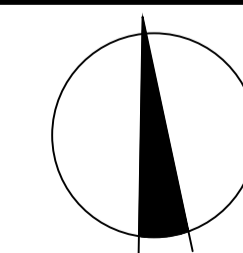
Drawn R.YOUNG
 Date 30/10/18
 AN 1991122
 Designed K.PHAL
 Date 30/10/18
 AN 1871742
 Verified R.MASON
 Date 20/11/18
 AN 705189
 Approved T.LIAKOPOULOS
 Date 30/11/18
 AN 888490

BUS ROUTE NOTE:
 FOR 'PARCEL C' OVERALL INDICATIVE / NOMINATED FUTURE BUS STOP LOCATION PLAN REFER TO REFERRAL RESPONSE BY "TRANSPORT FOR VICTORIA". REF: FOL/17/68778

THE FOLLOWING ROADS ARE POTENTIAL BUS ROUTES:

- MADISON AVENUE (STAGE 29 TO 30)
- LICENSE ROAD
- SILK DRIVE

AVID
 Property Group



Coords: MGA
 Levels: AHD

Hor 1:250 0m 2.5m 5m 10m 15m

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

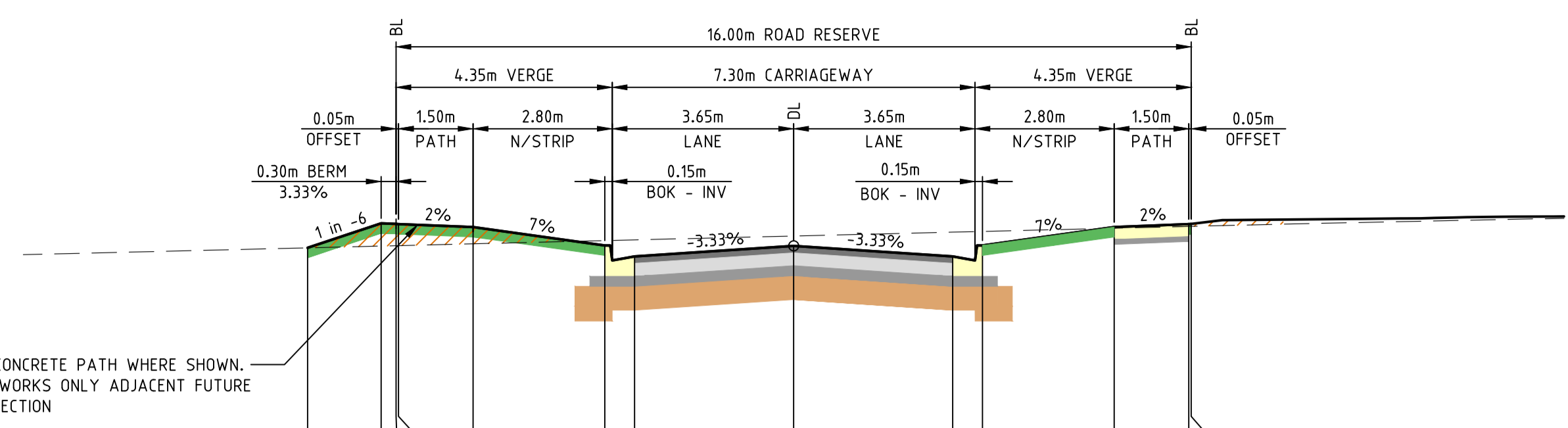
BLOOMDALE ESTATE
PARCEL C - STAGE 31
 146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
SIGNAGE AND LINEMARKING PLAN
SHEET 03 OF 03
Drawing No. 12655.31LM03 Rev 5
 Sheet No. 25 **CONSTRUCTION**
 © Dalton Consulting Engineers Pty Ltd



VICTORIA
 T 61 3 9813 7400
 W dceng.com.au

ABN 78 429 221 049
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

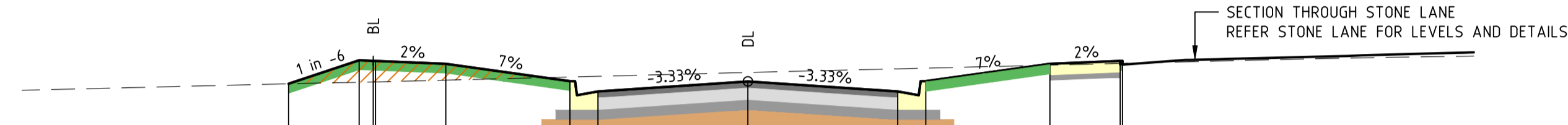
Drawing File: C:\124_Synergy\Amen\STAGER34-MEL\12655.31-Bloomdale Stage 31_13201_1_DESIGN\01_LAND\04_401
 Date/Time: Mon Nov 18, 2019 - 11:08am - Robert Young



DATUM RL200.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
201.945	201.945	-9.780
202.027	201.963	-8.300
202.182	201.976	-8.200
202.182	201.987	-7.950
202.154	201.986	-6.450
201.969	202.018	-3.800
201.969	202.025	-3.200
201.965	202.064	0.000
201.969	202.103	3.200
201.969	202.11	3.800
202.154	202.142	6.450
202.182	202.161	7.950
202.182	202.181	8.000

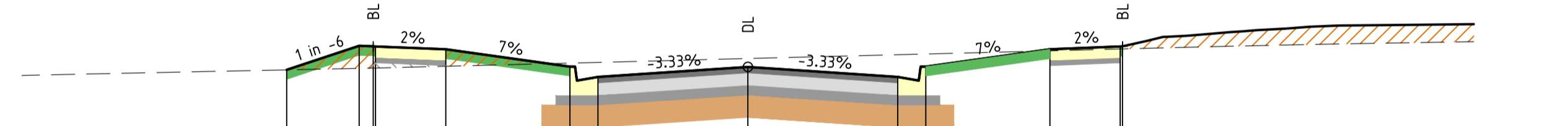
CH 62.486



DATUM RL200.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
201.9	201.9	-9.806
202.151	201.916	-8.300
202.155	201.916	-8.200
202.143	201.919	-7.950
202.113	201.938	-6.450
201.928	201.972	-3.800
201.818	201.98	-3.200
201.924	202.021	0.000
201.928	202.06	3.200
201.928	202.067	3.800
202.113	202.099	6.450
202.143	202.117	7.950
202.145	202.118	8.000

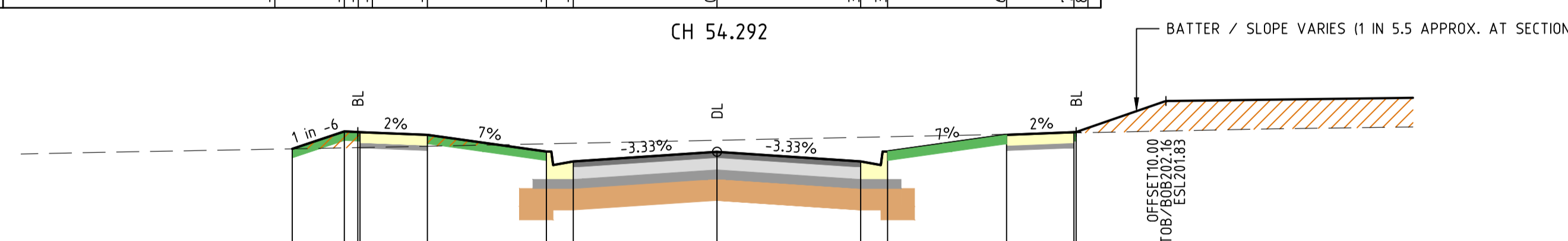
CH 58.378



DATUM RL200.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
201.843	201.843	-9.847
202.01	201.859	-8.300
202.095	201.862	-8.200
202.093	201.863	-7.950
202.063	201.882	-6.450
201.878	201.916	-3.800
201.768	201.923	-3.200
201.874	201.944	0.000
201.878	202.005	3.200
201.878	202.013	3.800
202.063	202.047	6.450
202.093	202.066	7.950
202.095	202.067	8.000

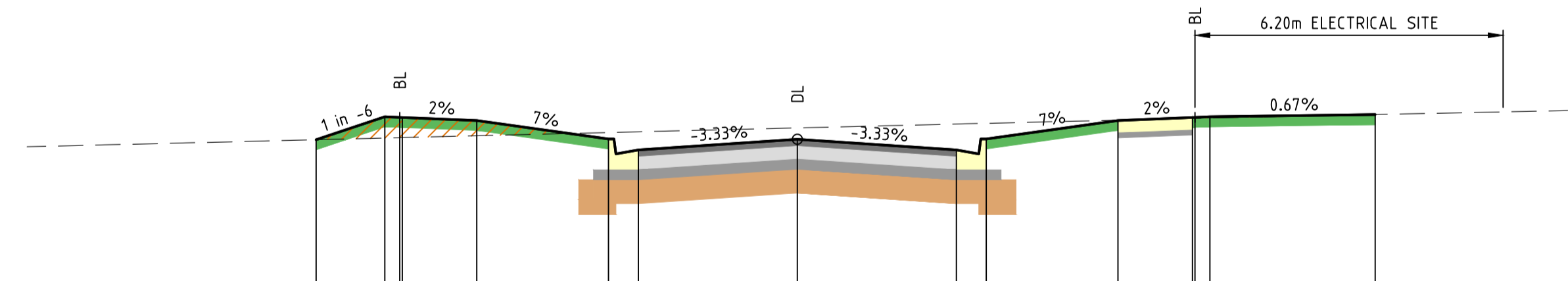
CH 54.292



DATUM RL200.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
201.63	201.63	-9.452
201.892	201.611	-8.300
201.817	201.644	-8.200
201.816	201.644	-7.950
201.786	201.659	-6.450
201.6	201.686	-3.800
201.49	201.693	-3.200
201.597	201.725	0.000
201.49	201.758	3.200
201.6	201.765	3.800
201.786	201.792	6.450
201.816	201.807	7.950
201.817	201.808	8.000

CH 38.576



DATUM RL200.000

DESIGN SURFACE	EXISTING SURFACE	OFFSET
202.026	202.026	-9.683
202.256	202.043	-8.300
202.249	202.077	-8.200
202.249	202.087	-7.950
202.219	202.066	-6.450
202.033	202.098	-3.800
202.033	202.106	-3.200
202.03	202.144	0.000
202.033	202.183	3.200
202.033	202.19	3.800
202.219	202.223	6.450
202.249	202.24	7.950
202.249	202.241	8.000
202.249	202.244	8.300
202.279	202.279	11.626

CH 70.061

MAROON WAY



LEGEND

SUPERINTENDENT APPROVED FILL MATERIAL
 SUPERINTENDENT APPROVED STRUCTURAL ROCK FILL MATERIAL

BATTER TREATMENT:
 ALL BATTERS GREATER THAN 1 IN 6 SHALL BE HYDROMULCHED.

PAD LEVELS:
 FOR EARTHWORK PAD LEVELS BEYOND CROSS SECTION EXTENT REFER TO FILL PLANS.

FILL NOTE: REFER TO GEOTECHNICAL INVESTIGATION REPORT BY TONKIN & TAYLOR (REF: 1004.019.R2)

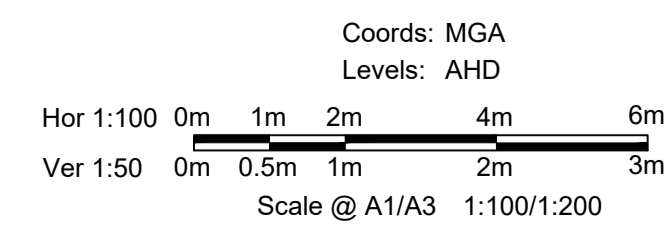


BLOOMDALE ESTATE
PARCEL C - STAGE 31
 146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
CROSS SECTIONS
SHEET 10 OF 18
Drawing No. 12655.31XS10 Rev 5



VICTORIA
 T 61 3 9813 7400
 W dceng.com.au

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



REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
 Date 30/10/18
 AN 1991122
 Designed K.PHAL
 Date 30/10/18
 AN 1871742
 Verified R.MASON
 Date 20/11/18
 AN 705189
 Approved T.LIAKOPOULOS
 Date 30/11/18
 AN 888490

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

Drawing File: C:\124_Sydney\Area\ENERGY-MEL\12655-31-Bloomdale Stage 31_1320\1_DESIGN\01_LAYOUT\04_480
 Drawing Title: Drainage Longitudinal Section (Q5)
 Date/Time: Mon Nov 18, 2019 11:09am --Robert Young--

FUTURE DRAINAGE CONNECTION NOTE:
 WHERE THE STORMWATER DRAINAGE NETWORK IS TO BE EXTENDED IN FUTURE CONTRACTOR TO PROVIDE TEMPORARY SEAL TO UPSTREAM END OF DRAINAGE PIPE AND MARKER POST TO SURFACE.

STAGE 31 DRAINAGE DRAWING SETS:
 1. STAGE 31 COUNCIL: 12655.31DR01
 2. STAGE 31 SCHEME DRAIN: 12655.31MWD01

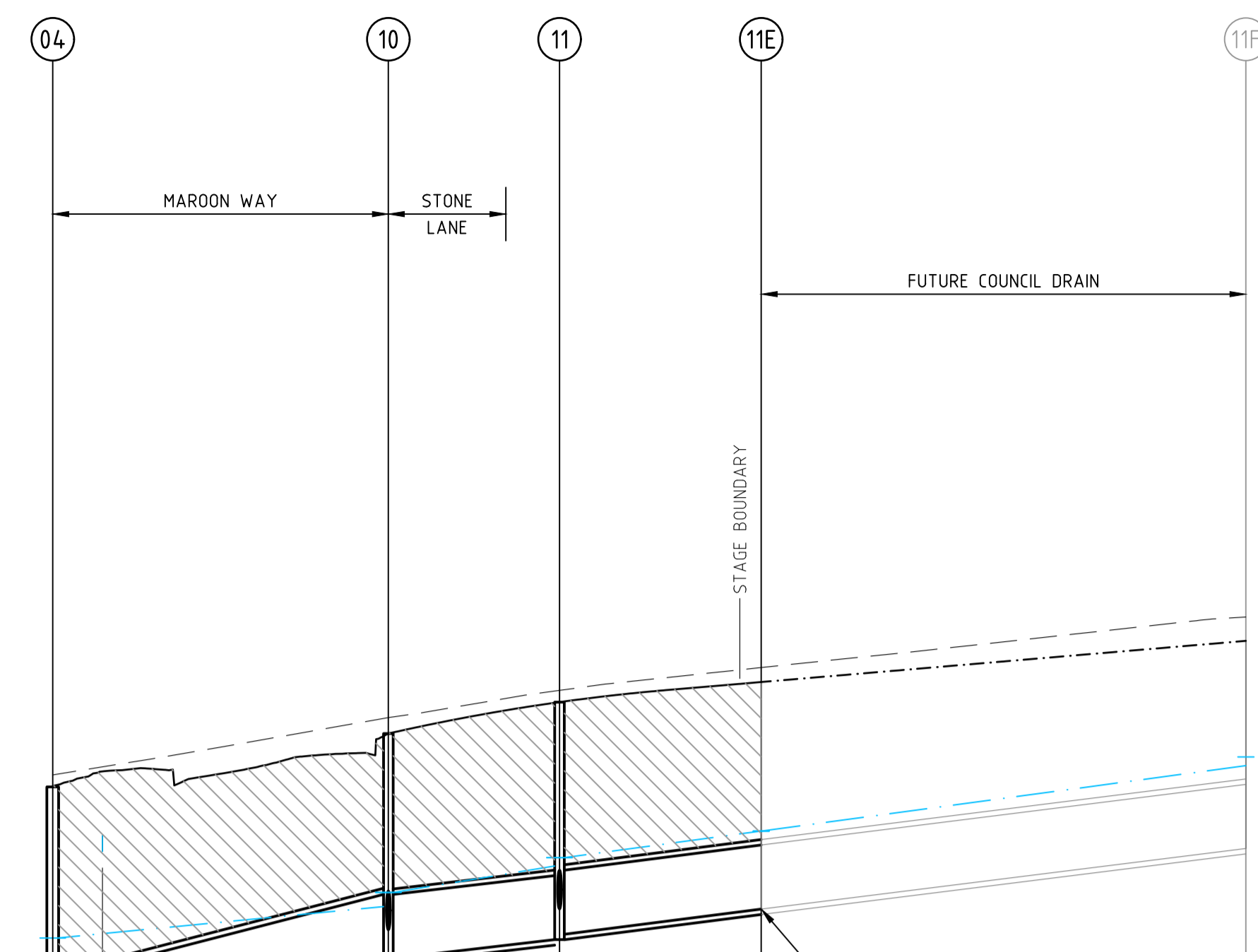
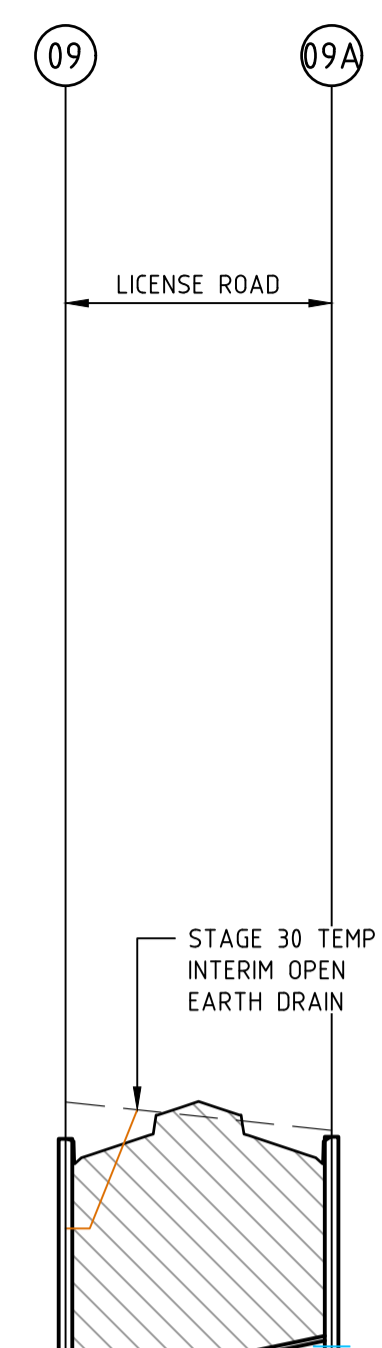
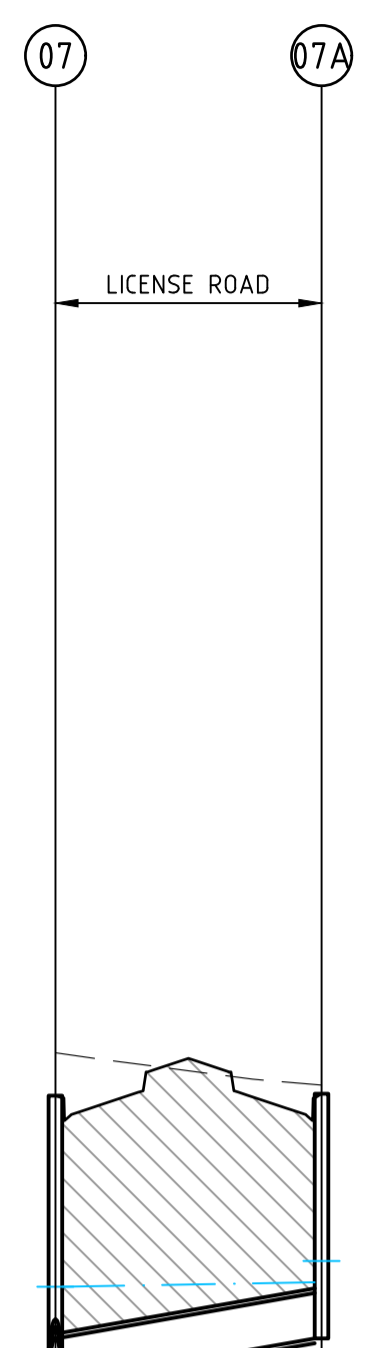
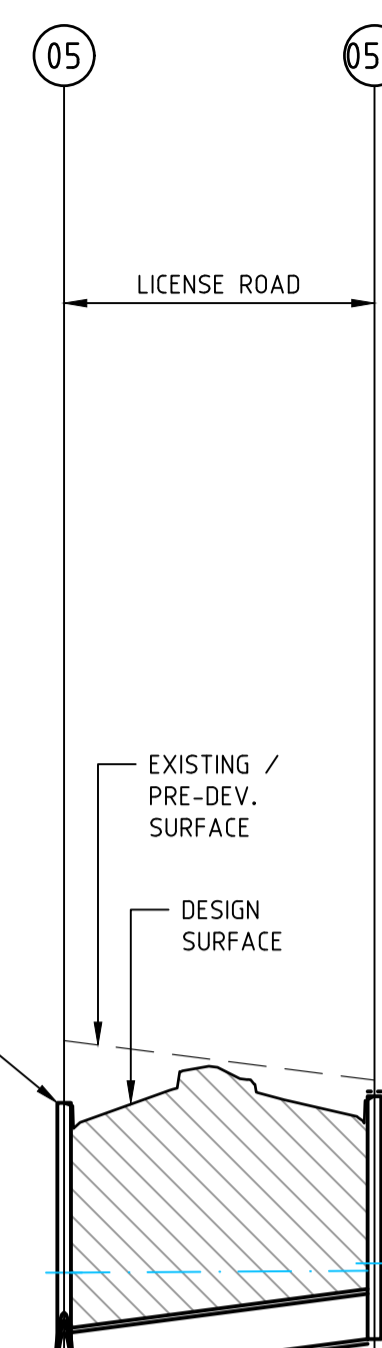
DRAINAGE PIPE CLASSES:
 1. ALL 150Ø PIPES ARE P.V.C. MIN. CLASS SN6. SEALED WITH SOLVENT CEMENT OR R.R.J. U.N.O.
 2. ALL PIPES >150Ø ARE R.C.P. MIN. CLASS 2 U.N.O.

DESIGN STORM:
 A.R.I. 05
 A.E.P. 0.181 (18.1%)

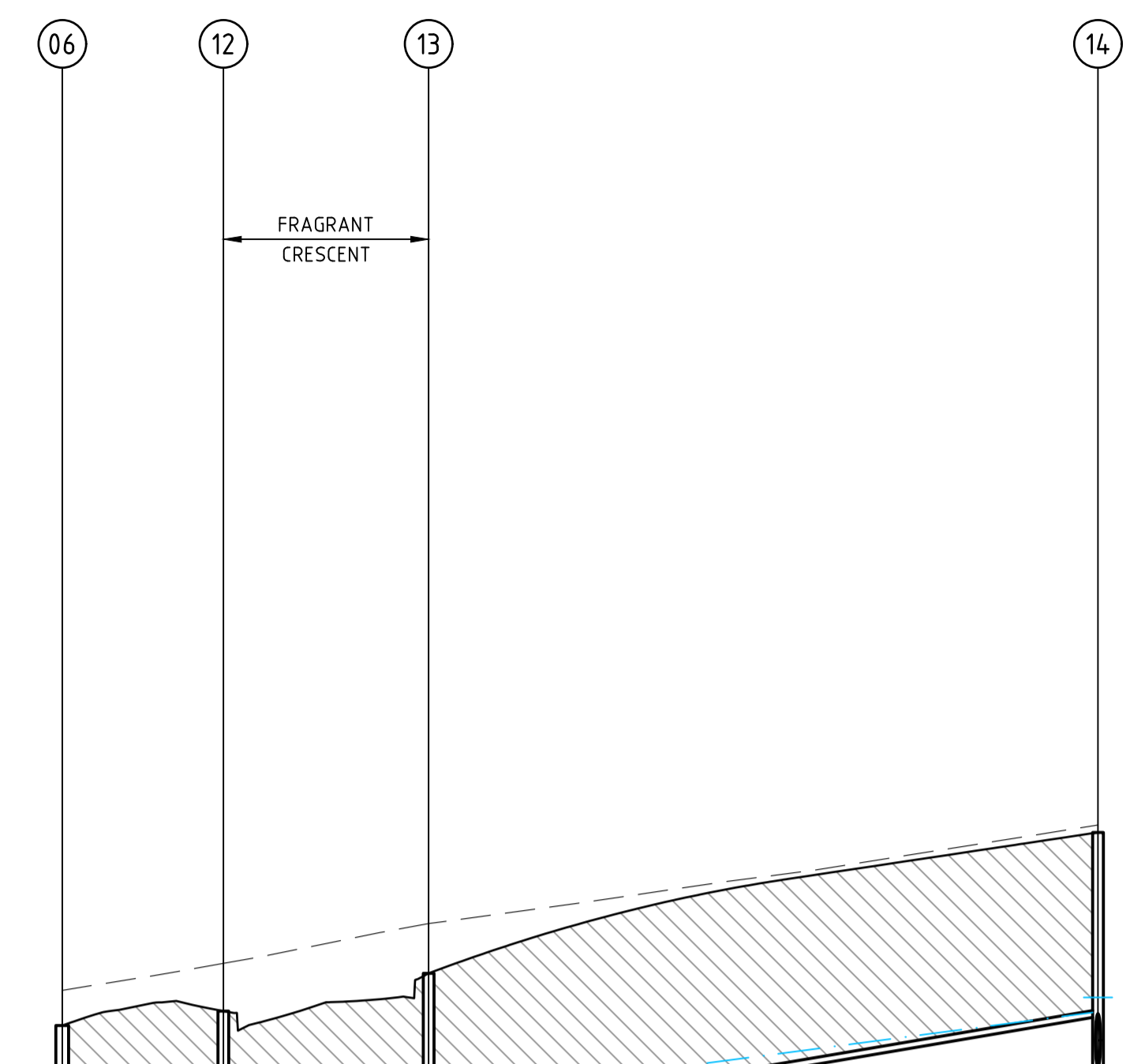
WARNING:
 NO DRAINAGE WORKS SHALL COMMENCE UNTIL THE CONTRACTOR CONFIRMS THE I.L. OF ALL EXISTING DRAINS, AND CONFIRMS IN WRITING WITH THE ENGINEERING SUPERVISOR.

VELOCITY (m/s)
 PIPE GRADE VELOCITY
 PIPE GRADE %
 PIPE FLOW (m³/s)
 PIPE CAPACITY AT GRADE
 PIPE SIZE (mm)

DATUM	189.000
DEPTH TO INVERT	2.716
HYDRAULIC GRADE LINE	199.456 199.925 2.716
INVERT LEVEL	199.356 200.953 1.816
DESIGN SURFACE LEVEL	201.175
EXISTING SURFACE LEVEL	201.587 201.325 201.219
CHAINAGE	0.000 20.526



VELOCITY (m/s)	3.881	2.699	2.763	2.757
PIPE GRADE VELOCITY	3.716	2.279	2.429	2.429
PIPE GRADE %	2.500%	1.100%	1.250%	1.250%
PIPE FLOW (m ³ /s)	0.797	0.763	0.705	0.714
PIPE CAPACITY AT GRADE	1.330	0.644	0.687	0.687
PIPE SIZE (mm)	675	600	600	600
DATUM	189.000	199.034 199.515 3.075	200.523 201.299 1.944	201.380
DEPTH TO INVERT	2.716	199.686 2.476	200.687 2.126	2.126
HYDRAULIC GRADE LINE	199.005	199.418 199.979 2.181	199.720 200.359 2.224	200.523 201.299 1.944
INVERT LEVEL	199.356 200.953 1.816	199.493 200.111 2.106	199.956 200.687 2.126	199.956 200.687 2.126
DESIGN SURFACE LEVEL	201.175	202.003 201.894	202.082	202.082
EXISTING SURFACE LEVEL	201.587 201.325 201.219	201.212 201.000	202.003 202.003 201.894	202.082 202.082 201.944
CHAINAGE	0.000 20.526	-86.192 31.425	-38.739 18.883	45.383



VELOCITY (m/s)	3.607	3.688	3.422	
PIPE GRADE VELOCITY	3.196	3.323	3.034	
PIPE GRADE %	1.850%	2.000%	1.667%	
PIPE FLOW (m ³ /s)	1.011	0.947	0.956	
PIPE CAPACITY AT GRADE	1.144	1.189	1.086	
PIPE SIZE (mm)	675	675	675	
DATUM	191.000	199.116 200.443 2.761	200.523 201.299 1.944	201.380
DEPTH TO INVERT	2.716	199.640 2.007	200.687 2.126	2.126
HYDRAULIC GRADE LINE	199.456 199.925 2.716	199.890 200.768 2.107	199.940 200.900 2.057	200.523 201.299 1.944
INVERT LEVEL	199.356 200.953 1.816	199.941	199.941	199.941
DESIGN SURFACE LEVEL	201.175	200.284 201.118 2.030	200.334 201.262 1.980	200.523 201.299 1.944
EXISTING SURFACE LEVEL	201.587 201.325 201.219	202.171 201.877	202.730 202.314	202.082 202.082 201.944
CHAINAGE	0.000 20.526	13.507	14.975 17.203	56.100

FOR CONTINUATION REFER TO SHEET 50

REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
 Date 30/10/18
 AN 1991122
 Designed K.PHAL
 Date 30/10/18
 AN 1871742
 Verified R.MASON
 Date 20/11/18
 AN 705189
 Approved T.LIAKOPOULOS
 Date 30/11/18
 AN 888490



LEGEND
 SUPERINTENDENT APPROVED FILL MATERIAL
 SUPERINTENDENT APPROVED F.C.R. MATERIAL (FINE CRUSHED ROCK BACKFILL)

M.C.C. REF:
 STD. DRG. MCC 704 PIPE BEDDING & RE-INSTATE
 AS/NZS REF:
 3725 DESIGN FOR INSTALL OF BURIED CONC. PIPES
 GEOTECH REPORT REF:
 1004019.R2 BY TONKIN & TAYLOR



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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
 146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
DRAINAGE LONGITUDINAL SECTIONS (Q5)
SHEET 01 OF 05
 Drawing No. 12655.31DR01 Rev 5
 Sheet No. 49 CONSTRUCTION



ABN 78 429 221 049
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au

VICTORIA
 T 61 3 9813 7400
 W dceng.com.au

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.



PROPERTY CONNECTION INVERT LEVEL NOTE:
 INVERT LEVELS (WHERE SHOWN) HAVE BEEN CALCULATED IN ACCORDANCE WITH A.S./N.Z.S. 3500 - PLUMBING AND DRAINAGE AND 3500.5 - PART 5 - DOMESTIC INSTALLATIONS.

STAGE 31 DRAINAGE DRAWING SETS:
 1. STAGE 31 COUNCIL: 12655.31DR01
 2. STAGE 31 SCHEME DRAIN: 12655.31MWDRO1
 3. VICROADS IT05: 12655.53

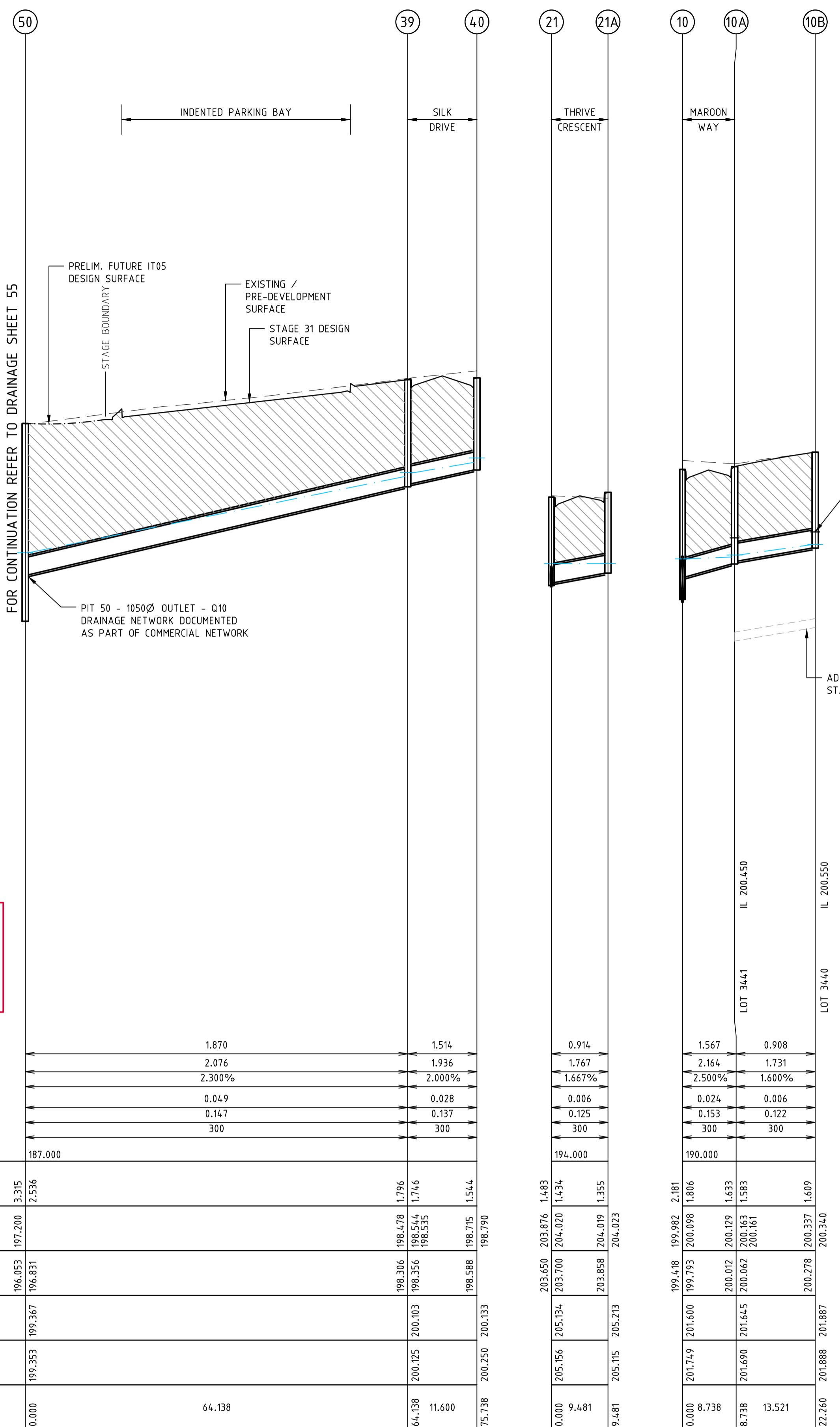
DRAINAGE PIPE CLASSES:
 1. ALL 150Ø PIPES ARE P.V.C. MIN. CLASS SN6. SEALED WITH SOLVENT CEMENT OR R.R.J. U.N.O.
 2. ALL PIPES >150Ø ARE R.C.P. MIN. CLASS 2 U.N.O.

DESIGN STORM:
 A.R.I. 05
 A.E.P. 0.181 (18.1%)

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)	1.870	1.514
PIPE GRADE VELOCITY	2.076	1.936
PIPE GRADE %	2.300%	2.000%
PIPE FLOW (m ³ /s)	0.049	0.028
PIPE CAPACITY AT GRADE	0.147	0.137
PIPE SIZE (mm)	300	300

DATUM	187.000
DEPTH TO INVERT	3.315 2.536
HYDRAULIC GRADE LINE	196.053 197.200 196.831
INVERT LEVEL	196.053 196.831
DESIGN SURFACE LEVEL	199.367 199.367
EXISTING SURFACE LEVEL	199.353 200.025 200.103
CHAINAGE	0.000 64.138 11.600 75.738 200.250 200.133



REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
 Date 30/10/18
 AN 1991122
 Designed K.PHAL
 Date 30/10/18
 AN 1871742
 Verified R.MASON
 Date 20/11/18
 AN 705189
 Approved T.LIAKOPOULOS
 Date 30/11/18
 AN 888490

LEGEND
 SUPERINTENDENT APPROVED FILL MATERIAL
 SUPERINTENDENT APPROVED F.C.R. MATERIAL (FINE CRUSHED ROCK BACKFILL)

M.C.C. REF.
 STD. DRG. MCC 704 PIPE BEDDING & RE-INSTATE
 AS/NZS REF.
 3725 DESIGN FOR INSTALL OF BURIED CONC. PIPES
 GEOTECH REPORT REF.
 1004019.R2 BY TONKIN & TAYLOR



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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
 146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
DRAINAGE LONGITUDINAL SECTIONS (Q5)
SHEET 05 OF 05
Drawing No. 12655.31DR05 Rev 5

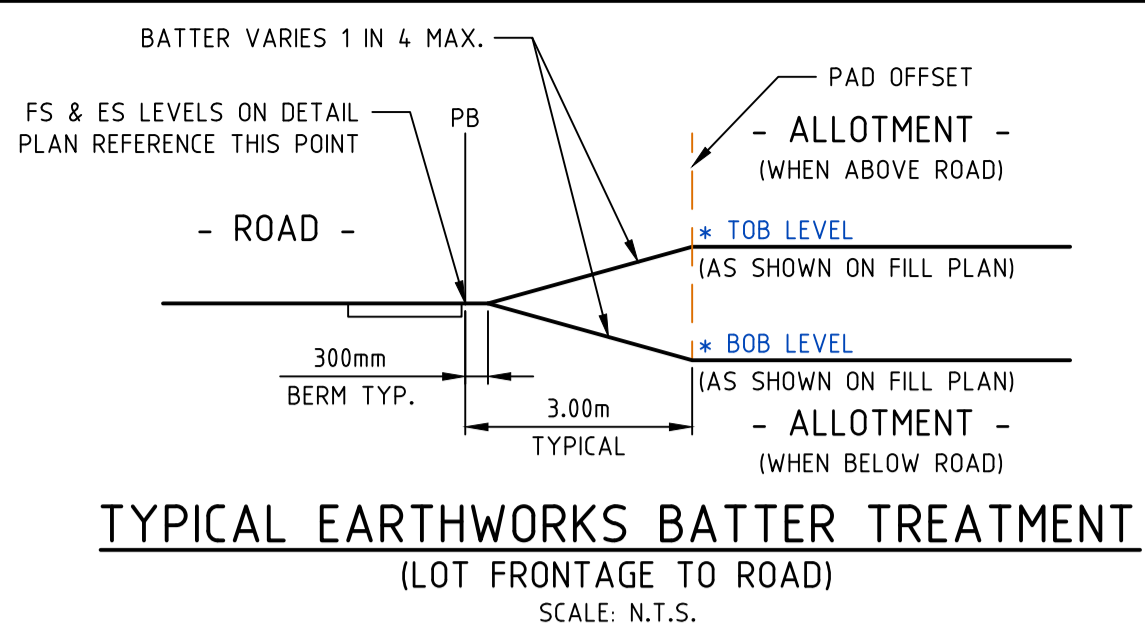


VICTORIA
 T 61 3 9813 7400
 W dceng.com.au
 QUEENSLAND
 T 61 7 3374 9000
 E info@dceng.com.au
 ABN 78 429 221 049

Sheet No. 53 **CONSTRUCTION**
 © Dalton Consulting Engineers Pty Ltd

Drawing File: C:\24 Synergis\Area\SYNERGY-MEL\12655.31-Bloomdale Stage 31_1320\1_DESIGN\01_LAND\04_40\...
 Drawing Title: Drainage Longitudinal Sections (Q5)
 Date/Time: Mon Nov 18, 2019 11:59am --Robert Young--

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.



MELTON
APPROVED
DETAILED ENGINEERING PLANS
Peng Hua
ENGINEERING SERVICES
Date: 3/12/2019



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.

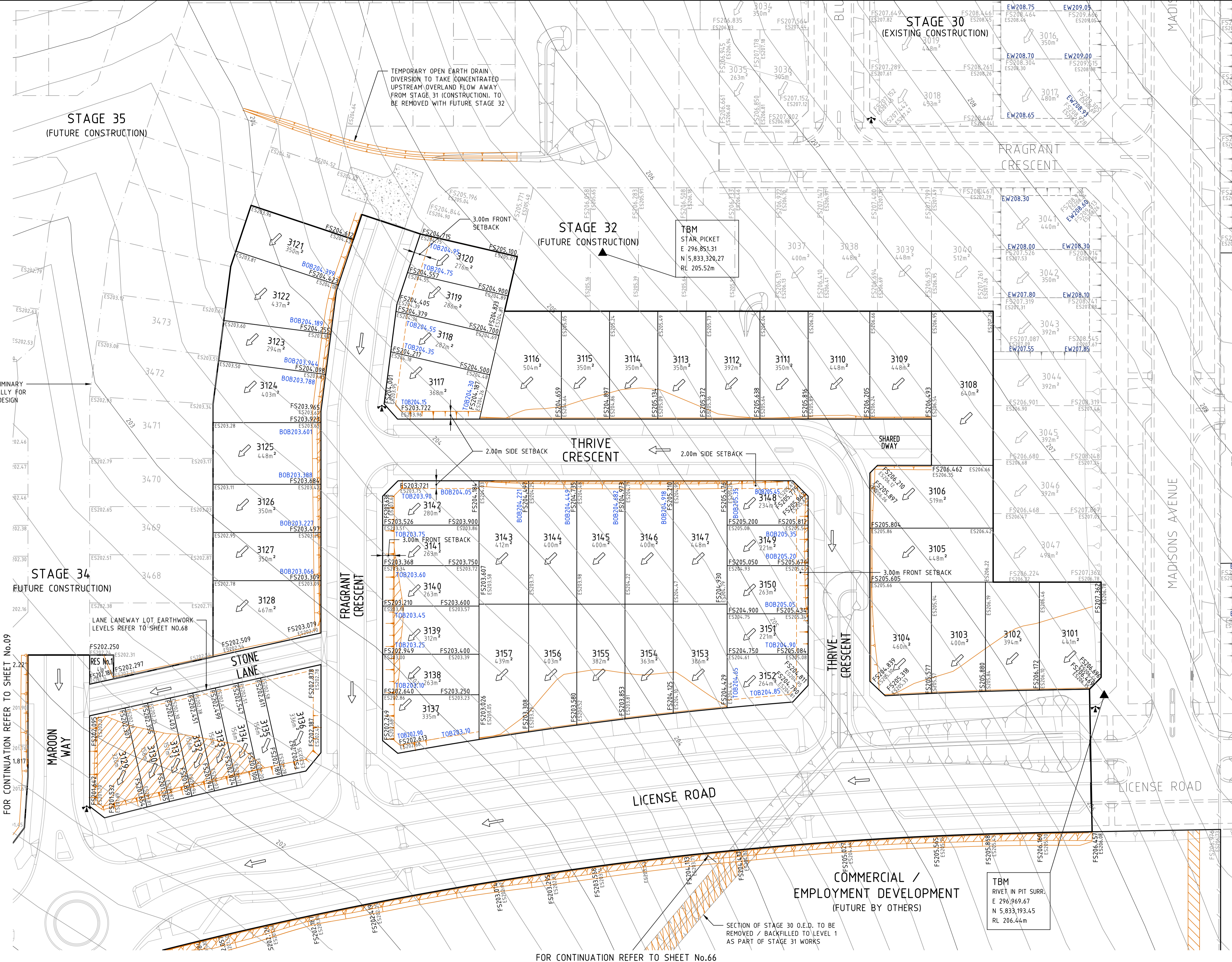
THIS PLAN HAS BEEN PREPARED FOR THE PURPOSE OF CONSTRUCTING SUBDIVISIONAL WORKS AND IS NOT A RECORD OF 'AS BUILT DETAILS'.

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.



REV	AMENDMENTS	DATE	APP'D.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
Date 30/10/18
AN 1991122
Designed K.PHAL
Date 30/10/18
AN 1871742
Verified R.MASON
Date 20/11/18
AN 705189
Approved T.LIAKOPOULOS
Date 30/11/18
AN 888490

STAGE INTERFACE BATTER TREATMENT NOTE:
WHEN A FUTURE ADJACENT ALLOTMENT LEVEL (AS SPECIFIED ON THE EARTHWORKS / FILL PLANS IS HIGHER THAN THE LOT CONSTRUCTED AS A PART OF THE CURRENT STAGE, THE CONTRACTOR SHALL ENSURE THE ADJACENT FUTURE LOT BE CONSTRUCTED TO THE ULTIMATE EARTHWORKS LEVELS FOR A MINIMUM 2.00m WIDTH.

THIS IS TO ENSURE THE LOW SIDE BATTER IS CONSTRUCTED IN FULL TO ULTIMATE DESIGN AND FUTURE EARTHWORKS ON THE HIGH SIDE WILL NOT DISTURB EXISTING ALLOTMENTS, POTENTIAL FENCES OR ANY POTENTIAL PRIVATE INFRASTRUCTURE.

ALTERNATIVE INTERIM EARTHWORKS TREATMENTS TO BE APPROVED BY THE SUPERINTENDENT.

NOTE:
1. REFER TO GEOTECHNICAL INVESTIGATION REPORT BY TONKIN & TAYLOR (REF. 1004019.R2) REGARDING EARTHWORKS REQUIREMENTS

BATTER TREATMENT:
ALL BATTERS GREATER THAN 1 IN 6 SHALL BE HYDROMULCHED.

- LEGEND**
- FILLING OVER 200mm
 - BATTER (GRADE AS SPECIFIED) (SHOWN WHERE GRADES > 1 IN 10)
 - ALLOTMENT PAD BOUNDARY
 - DIRECTION OF LOT FALL (1 IN 150 MINIMUM)
 - EXISTING SURFACE LEVEL (LOT CORNER)
 - FINISHED SURFACE LEVEL (LOT CORNER)
 - EARTHWORKS PAD LEVEL AT PAD CORNER (PROPOSED)

AVID
Property Group

Coords: MGA
Levels: AHD

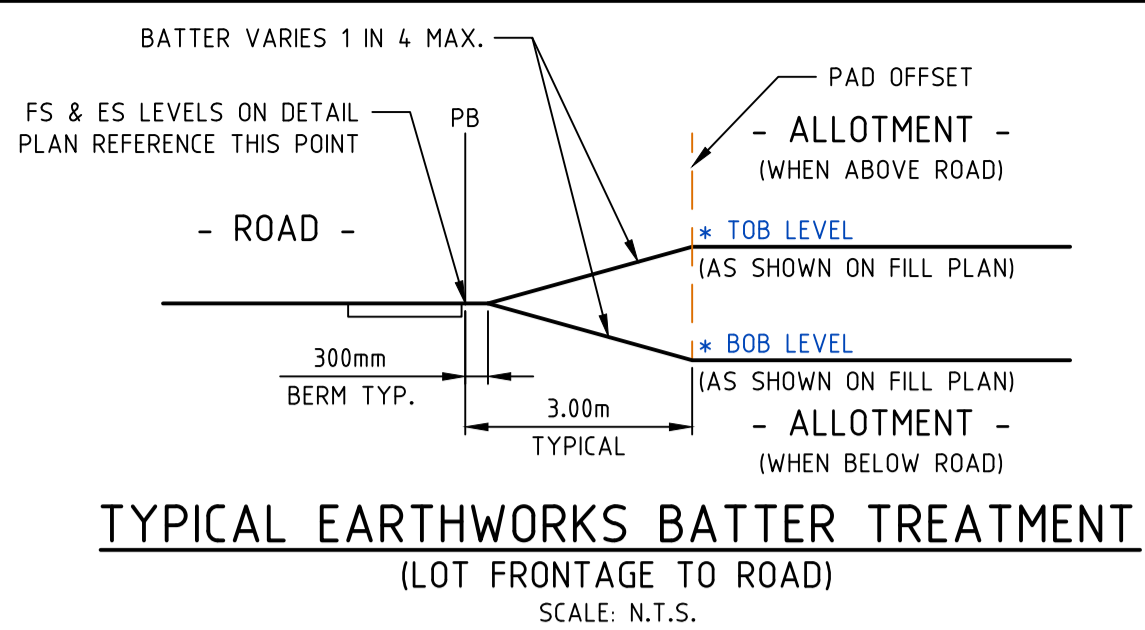
Hor 1:500 0m 5m 10m 20m 30m
Scale @ A1/A3 1:500/1:1000

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
FILL PLAN
SHEET 01 OF 04
Drawing No. 12655.31FP01 Rev 5
Sheet No. 65 **CONSTRUCTION**
© Dalton Consulting Engineers Pty Ltd

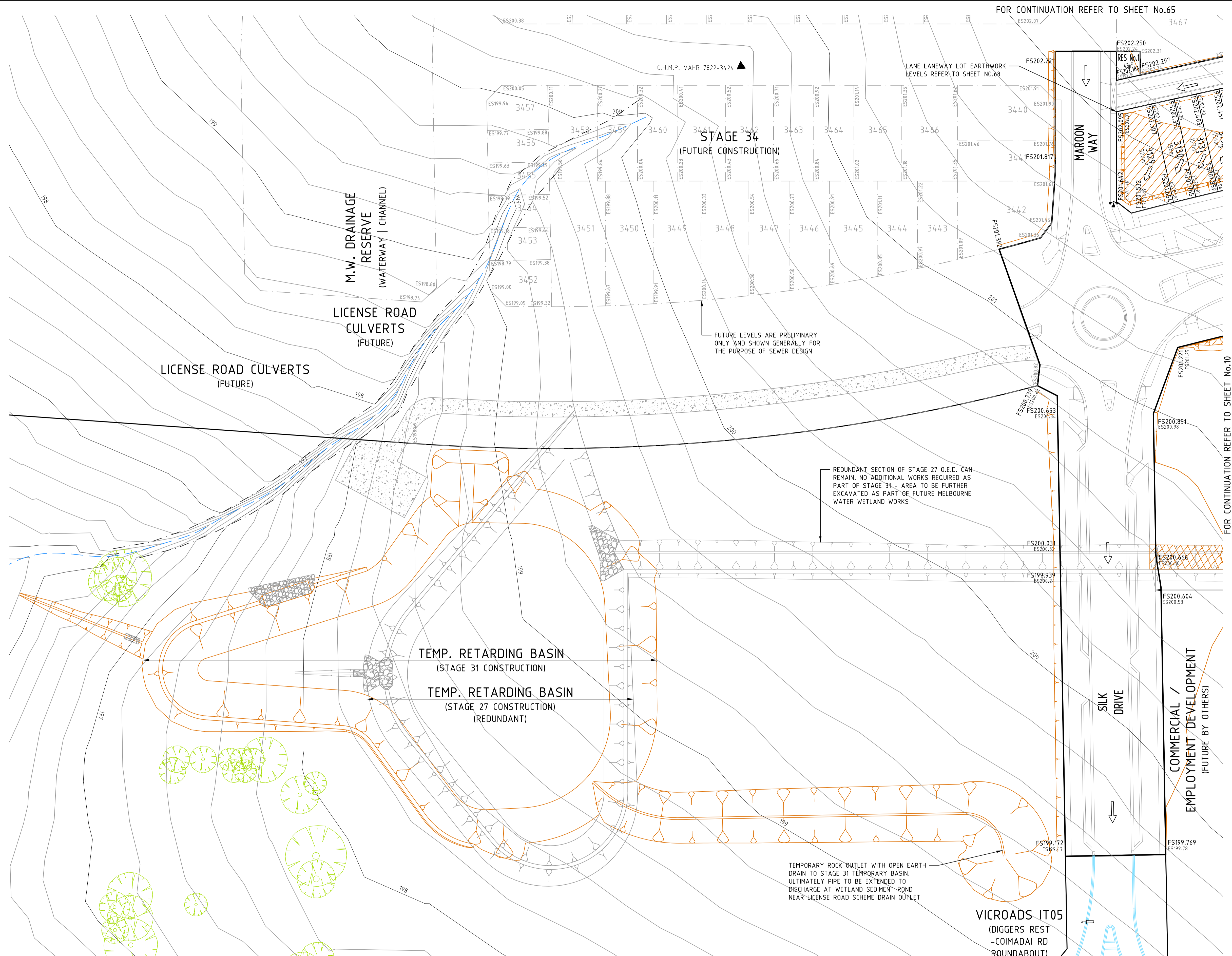
DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

Drawing File: C:\124_Synergy\A\04\ENERGY-MEL\12655.31-Bloomdale Stage 31_1201\1_DESIGN\01_A0401_04.dwg
 Drawing Title: Bloomdale Estate - Stage 31 - Diggers Rest - Coimadai Road - Parcel C - Stage 31 - Fill Plan
 Date/Time: Mon Nov 18, 2019 11:11am
 User: Robert.Young



TYPICAL EARTHWORKS BATTER TREATMENT
(LOT FRONTAGE TO ROAD)
SCALE: N.T.S.



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.

STAGE INTERFACE BATTER TREATMENT NOTE:
WHEN A FUTURE ADJACENT ALLOTMENT LEVEL (AS SPECIFIED ON THE EARTHWORKS / FILL PLANS IS HIGHER THAN THE LOT CONSTRUCTED AS A PART OF THE CURRENT STAGE, THE CONTRACTOR SHALL ENSURE THE ADJACENT FUTURE LOT BE CONSTRUCTED TO THE ULTIMATE EARTHWORKS LEVELS FOR A MINIMUM 2.00m WIDTH.

THIS IS TO ENSURE THE LOW SIDE BATTER IS CONSTRUCTED IN FULL TO ULTIMATE DESIGN AND FUTURE EARTHWORKS ON THE HIGH SIDE WILL NOT DISTURB EXISTING ALLOTMENTS, POTENTIAL FENCES OR ANY POTENTIAL PRIVATE INFRASTRUCTURE.

ALTERNATIVE INTERIM EARTHWORKS TREATMENTS TO BE APPROVED BY THE SUPERINTENDENT.

NOTE:
1. REFER TO GEOTECHNICAL INVESTIGATION REPORT BY TONKIN & TAYLOR (REF. 1004019.R2) REGARDING EARTHWORK REQUIREMENTS

BATTER TREATMENT:
ALL BATTERS GREATER THAN 1 IN 6 SHALL BE HYDROMULCHED.

- LEGEND**
- FILLING OVER 200mm
 - BATTER (GRADE AS SPECIFIED) (SHOWN WHERE GRADES > 1 IN 10)
 - ALLOTMENT PAD BOUNDARY
 - DIRECTION OF LOT FALL (1 IN 150 MINIMUM)
 - EXISTING SURFACE LEVEL (LOT CORNER)
 - FINISHED SURFACE LEVEL (LOT CORNER)
 - EARTHWORKS PAD LEVEL AT PAD CORNER (PROPOSED)

AVID
Property Group

Coords: MGA
Levels: AHD

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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427

FILL PLAN
SHEET 02 OF 04
Drawing No. **12655.31FP02** Rev 5
Sheet No. 66 **CONSTRUCTION**

© Dalton Consulting Engineers Pty Ltd

DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

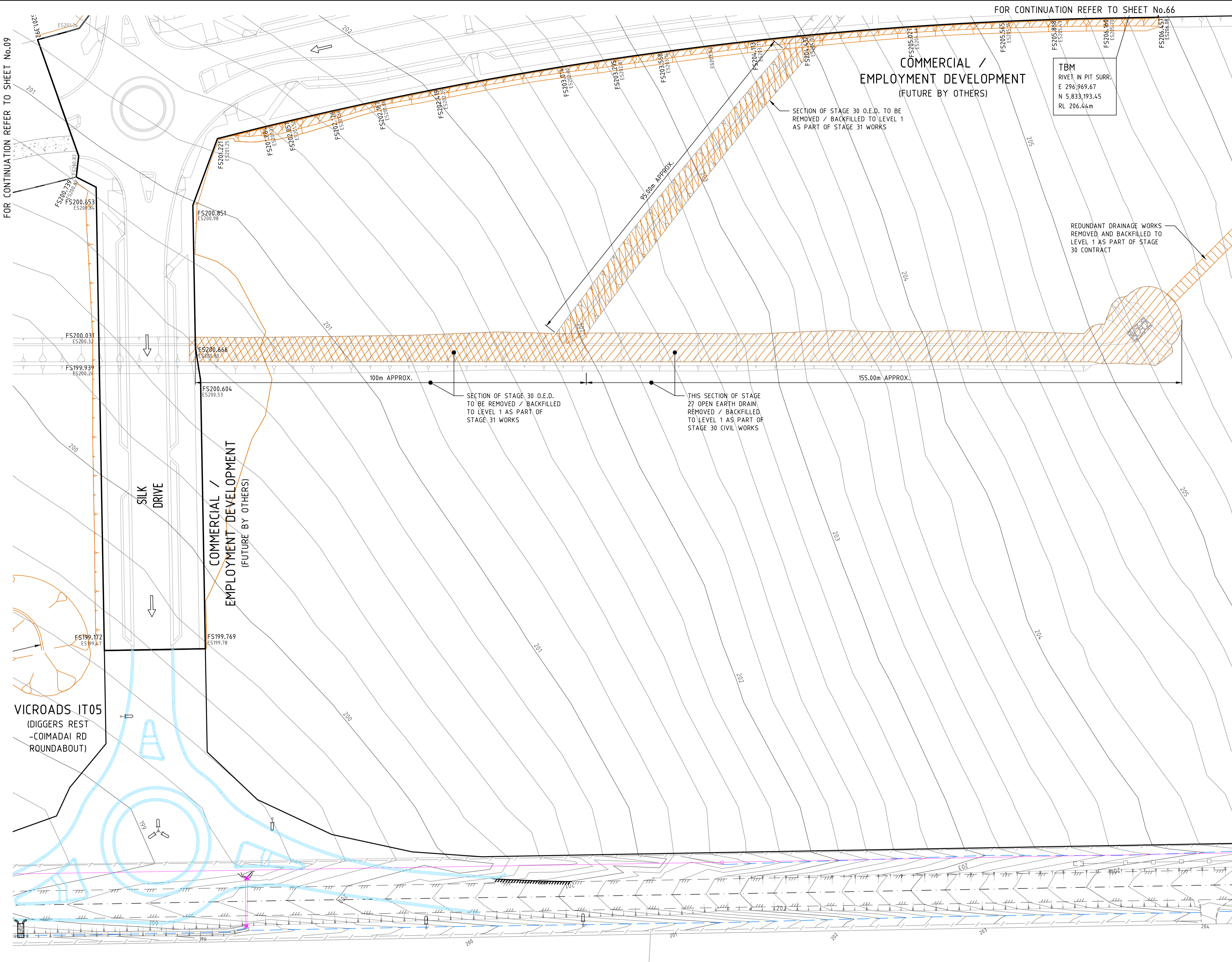
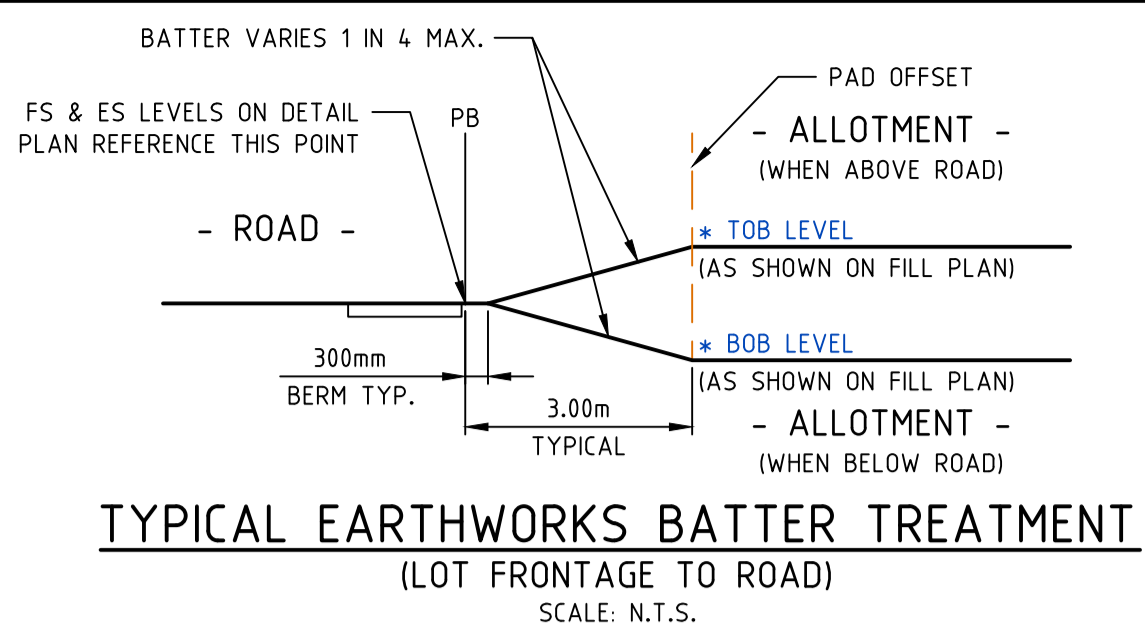
Drawing File: C:\24_Synergy\Area\ENERGY-MEL\2655.31-Bloomdale Stage 31_1320\1_DESIGN\01_A300\04.dwg
 Drawing Title: Maroon Way Amended For Stage 34
 Date/Time: Mon Nov 18, 2019 11:11am
 User: Robert Young

FOR CONTINUATION REFER TO SHEET No.10

FOR CONTINUATION REFER TO SHEET No.65

3467

3467



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.

REV	AMENDMENTS	DATE	APPD.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/08/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
Date 30/10/18
AN 1991122
Designed K.PHAL
Date 30/10/18
AN 1871742
Verified R.MASON
Date 20/11/18
AN 705189
Approved T.LIAKOPOULOS
Date 30/11/18
AN 888490

STAGE INTERFACE BATTER TREATMENT NOTE:
WHEN A FUTURE ADJACENT ALLOTMENT LEVEL (AS SPECIFIED ON THE EARTHWORKS / FILL PLANS IS HIGHER THAN THE LOT CONSTRUCTED AS A PART OF THE CURRENT STAGE, THE CONTRACTOR SHALL ENSURE THE ADJACENT FUTURE LOT BE CONSTRUCTED TO THE ULTIMATE EARTHWORKS LEVELS FOR A MINIMUM 2.00m WIDTH.

THIS IS TO ENSURE THE LOW SIDE BATTER IS CONSTRUCTED IN FULL TO ULTIMATE DESIGN AND FUTURE EARTHWORKS ON THE HIGH SIDE WILL NOT DISTURB EXISTING ALLOTMENTS, POTENTIAL FENCES OR ANY POTENTIAL PRIVATE INFRASTRUCTURE.

ALTERNATIVE INTERIM EARTHWORKS TREATMENTS TO BE APPROVED BY THE SUPERINTENDENT.

NOTE:
1. REFER TO GEOTECHNICAL INVESTIGATION REPORT BY TONKIN & TAYLOR (REF. 1004019.R2) REGARDING EARTHWORK REQUIREMENTS

BATTER TREATMENT:
ALL BATTERS GREATER THAN 1 IN 6 SHALL BE HYDROMULCHED.

- LEGEND**
- FILLING OVER 200mm
 - BATTER (GRADE AS SPECIFIED) (SHOWN WHERE GRADES > 1 IN 10)
 - ALLOTMENT PAD BOUNDARY
 - DIRECTION OF LOT FALL (1 IN 150 MINIMUM)
 - EXISTING SURFACE LEVEL (LOT CORNER)
 - FINISHED SURFACE LEVEL (LOT CORNER)
 - EARTHWORKS PAD LEVEL AT PAD CORNER (PROPOSED)

AVID
Property Group

Coords: MGA
Levels: AHD

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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427
FILL PLAN
SHEET 03 OF 04
Drawing No. 12655.31FP03 Rev 5
Sheet No. 67 **CONSTRUCTION**
© Dalton Consulting Engineers Pty Ltd

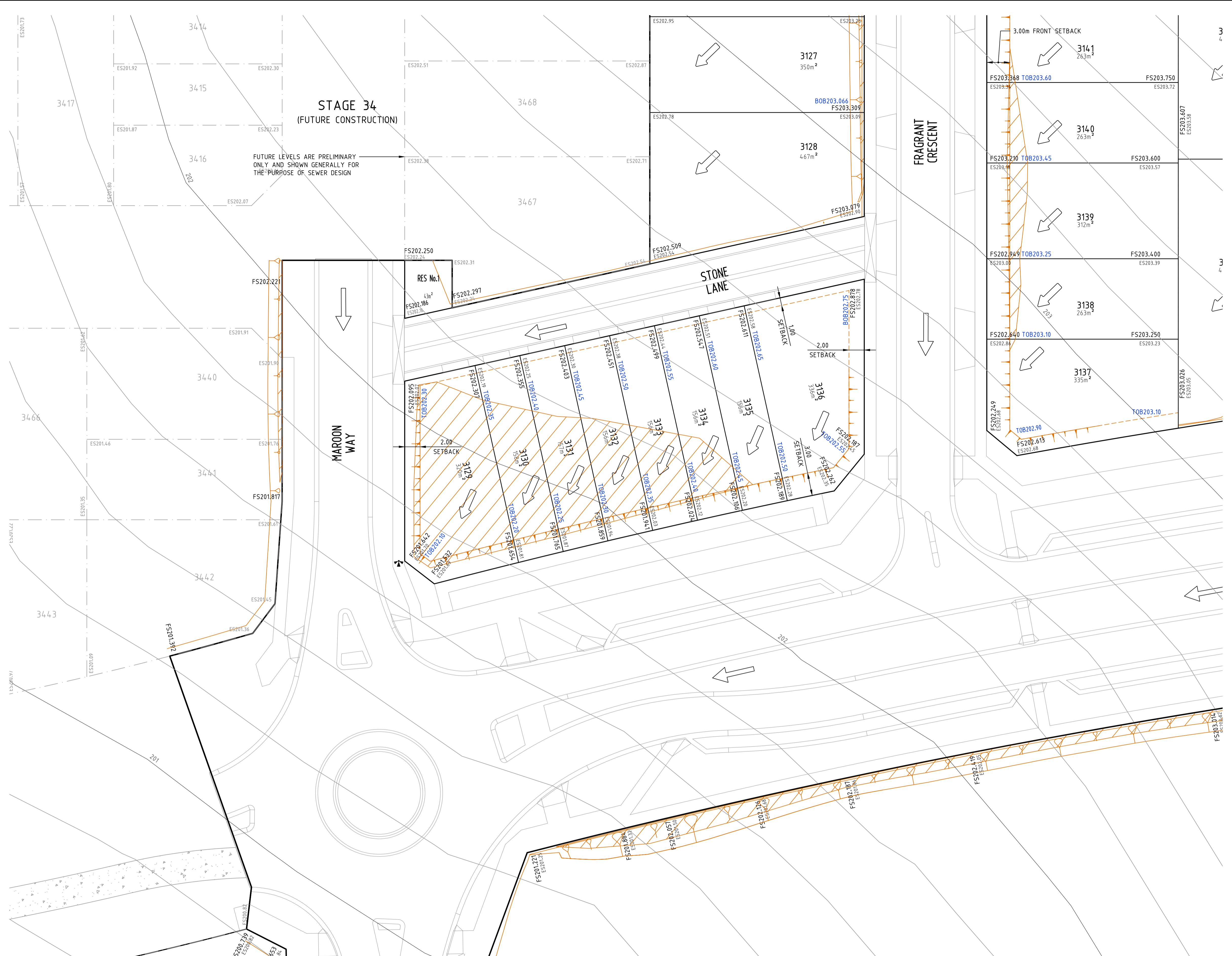
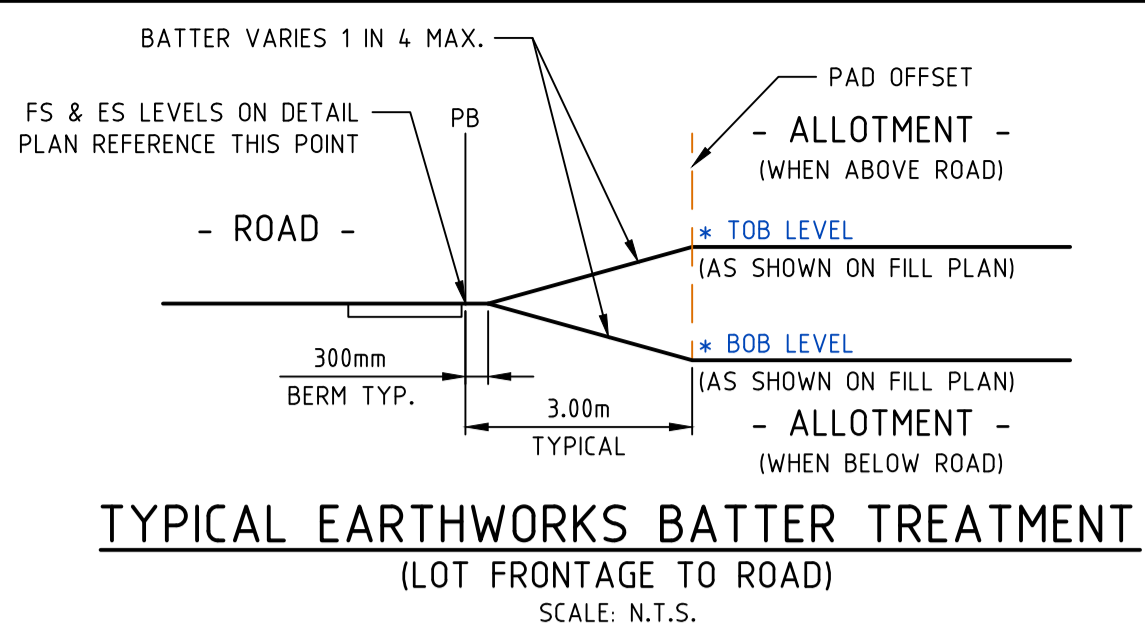
DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

Drawing File: C:\24_Synergy\Draw\ENERGY-MEL\2655.31-Bloomdale Stage 31_1320\1_DESIGN\01_ACAD\04.dwg
 Drawing Title: Maroon Way Amended For Stage 34
 Date/Time: Mon Nov 18, 2019 11:11am
 User: Robert Young

FOR CONTINUATION REFER TO SHEET No.66

FOR CONTINUATION REFER TO SHEET No.09



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.

REV	AMENDMENTS	DATE	APP'D.
5	MAROON WAY AMENDED FOR STAGE 34	18/11/19	TL
4	CONSTRUCTION ISSUE (COUNCIL COMMENTS 16/09/19)	17/09/19	TL
3	CONSTRUCTION ISSUE (COUNCIL COMMENTS 21/09/19)	02/09/19	TL
2	COUNCIL ISSUE (RE-DESIGN)	30/07/19	TL
1	TENDER ISSUE (RE-DESIGN)	22/07/19	TL
0	CONSTRUCTION ISSUE (SUPERSEDED DESIGN)	30/11/18	TL

Drawn R.YOUNG
Date 30/10/18
AN 1991122
Designed K.PHAL
Date 30/10/18
AN 1871742
Verified R.MASON
Date 20/11/18
AN 705189
Approved T.LIAKOPOULOS
Date 30/11/18
AN 888490

STAGE INTERFACE BATTER TREATMENT NOTE:
WHEN A FUTURE ADJACENT ALLOTMENT LEVEL (AS SPECIFIED ON THE EARTHWORKS / FILL PLANS IS HIGHER THAN THE LOT CONSTRUCTED AS A PART OF THE CURRENT STAGE, THE CONTRACTOR SHALL ENSURE THE ADJACENT FUTURE LOT BE CONSTRUCTED TO THE ULTIMATE EARTHWORKS LEVELS FOR A MINIMUM 2.00m WIDTH.

THIS IS TO ENSURE THE LOW SIDE BATTER IS CONSTRUCTED IN FILL TO ULTIMATE DESIGN AND FUTURE EARTHWORKS ON THE HIGH SIDE WILL NOT DISTURB EXISTING ALLOTMENTS, POTENTIAL FENCES OR ANY POTENTIAL PRIVATE INFRASTRUCTURE.

ALTERNATIVE INTERIM EARTHWORKS TREATMENTS TO BE APPROVED BY THE SUPERINTENDENT.

NOTE:
1. REFER TO GEOTECHNICAL INVESTIGATION REPORT BY TONKIN & TAYLOR (REF: 1004019.R2) REGARDING EARTHWORK REQUIREMENTS

BATTER TREATMENT:
ALL BATTERS GREATER THAN 1 IN 6 SHALL BE HYDROMULCHED.

- LEGEND**
- FILLING OVER 200mm
 - BATTER (GRADE AS SPECIFIED) (SHOWN WHERE GRADES > 1 IN 10)
 - ALLOTMENT PAD BOUNDARY
 - DIRECTION OF LOT FALL (1 IN 150 MINIMUM)
 - EXISTING SURFACE LEVEL (LOT CORNER)
 - FINISHED SURFACE LEVEL (LOT CORNER)
 - EARTHWORKS PAD LEVEL AT PAD CORNER (PROPOSED)

AVID
Property Group

Coords: MGA
Levels: AHD

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

BLOOMDALE ESTATE
PARCEL C - STAGE 31
146 DIGGERS REST-COIMADAI ROAD, DIGGERS REST 3427

FILL PLAN
SHEET 04 OF 04
Drawing No. 12655.31FP04 Rev 5
Sheet No. 68 CONSTRUCTION

© Dalton Consulting Engineers Pty Ltd

DALTON CONSULTING ENGINEERS
ABN 78 429 221 049
QUEENSLAND
T 61 7 3374 9000
E info@dceng.com.au

VICTORIA
T 61 3 9813 7400
W dceng.com.au

Drawing File: C:\24 Synergy\Draw\ENERGY-MEL\2655.31-Bloomdale Stage 31_1320\1_DESIGN\01_A3\04_04.dwg
 Drawing Title: Bloomdale Stage 31 - Parcel C - Stage 31 - Fill Plan
 Date/Time: Mon Nov 18, 2019 11:12am
 User: Robert.Young