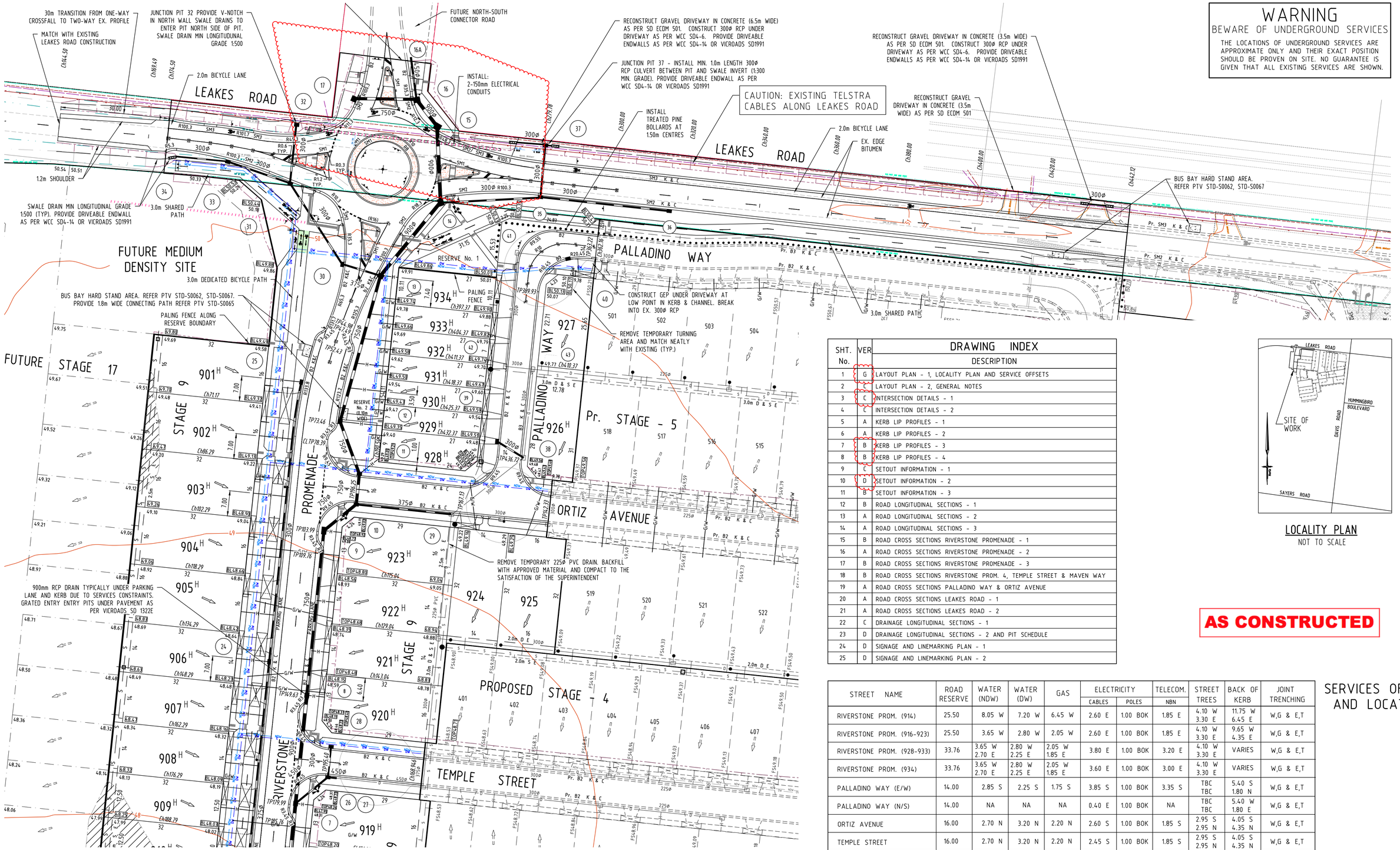

LAYOUT PLAN

SCALE: 1:500

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ALL LENGTHS ARE IN METRES

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

North

DRAWING INDEX

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1	G	LAYOUT PLAN - 1, LOCALITY PLAN AND SERVICE OFFSETS
2		LAYOUT PLAN - 2, GENERAL NOTES
3	C	INTERSECTION DETAILS - 1
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5	A	KERB LIP PROFILES - 1
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7	B	KERB LIP PROFILES - 3
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12	B	ROAD LONGITUDINAL SECTIONS - 1
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19	A	ROAD CROSS SECTIONS PALLADINO WAY & ORTIZ AVENUE
20	A	ROAD CROSS SECTIONS LEAKES ROAD - 1
21	A	ROAD CROSS SECTIONS LEAKES ROAD - 2
22	C	DRAINAGE LONGITUDINAL SECTIONS - 1
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24	D	SIGNAGE AND LINEMARKING PLAN - 1
25	D	SIGNAGE AND LINEMARKING PLAN - 2

LOCALITY PLAN

NOT TO SCALE

AS CONSTRUCTED

SERVICES OFFSETS AND LOCATIONS

STREET NAME	ROAD RESERVE	WATER (NDW)	WATER (DW)	GAS	ELECTRICITY CABLES	ELECTRICITY POLES	TELECOM. NBN	STREET TREES	BACK OF KERB	JOINT TRENCHING
RIVERSTONE PROM. (914)	25.50	8.05 W	7.20 W	6.45 W	2.60 E	1.00 BOK	1.85 E	4.10 W 3.30 E	11.75 W 6.45 E	W,G & E,T
RIVERSTONE PROM. (916-923)	25.50	3.65 W	2.80 W	2.05 W	2.60 E	1.00 BOK	1.85 E	4.10 W 3.30 E	9.65 W 4.35 E	W,G & E,T
RIVERSTONE PROM. (928-933)	33.76	3.65 W 2.70 E	2.80 W 2.25 E	2.05 W 1.85 E	3.80 E	1.00 BOK	3.20 E	4.10 W 3.30 E	VARIES	W,G & E,T
RIVERSTONE PROM. (934)	33.76	3.65 W 2.70 E	2.80 W 2.25 E	2.05 W 1.85 E	3.60 E	1.00 BOK	3.00 E	4.10 W 3.30 E	VARIES	W,G & E,T
PALLADINO WAY (E/W)	14.00	2.85 S	2.25 S	1.75 S	3.85 S	1.00 BOK	3.35 S	TBC TBC	5.40 S 1.80 N	W,G & E,T
PALLADINO WAY (N/S)	14.00	NA	NA	NA	0.40 E	1.00 BOK	NA	TBC TBC	5.40 W 1.80 E	W,G & E,T
ORTIZ AVENUE	16.00	2.70 N	3.20 N	2.20 N	2.60 S	1.00 BOK	1.85 S	2.95 S 2.95 N	4.05 S 4.35 N	W,G & E,T
TEMPLE STREET	16.00	2.70 N	3.20 N	2.20 N	2.45 S	1.00 BOK	1.85 S	2.95 S 2.95 N	4.05 S 4.35 N	W,G & E,T
MAVEN WAY	16.00	2.40 N	2.90 N	1.90 N	2.65 S	1.00 BOK	1.85 S	2.95 S 2.95 N	4.05 S 4.35 N	W,G & E,T
LEAKES ROAD (INTERIM)	20.50	2.70 W	3.40 W	2.20 W	Ex2.50 N	Ex2.50 N	ExVariesN 2.00 S	TBC TBC	4.70 S 5.70 N	W,G

COUNCIL REF. No. 2315/17 - 6215/12

SYMBOL LEGEND

- Prop Drains
- Exist Drains < 600
- Exist Drains > 600
- Prop Sewers < 300
- Prop Sewers > 300
- Exist Sewers < 300
- Exist Sewers > 300
- Prop Water
- Prop Gas Conduit
- Exist Water
- Exist Gas
- Exist Telstra/Optus
- Exist Electricity
- Prop 100mm Water Conduit
- House drain
- Property Inlet
- Street Sign
- PSM
- Existing Surface Level
- F.S. Level at Building Line
- F.S. Level at Top of Batter
- F.S. Level at Back of Lots
- Top of Retaining Wall Level
- F.S. Level Previous Stage
- Coloured Concrete Pavement
- Fill > 200mm

VER.	DATE	REMARKS
G	01-10-2019	AMENDED KERB RETURNS R,S & W
F	11-01-2019	ADDED ELEC CONDUIT & STORM DRAIN LINE 16-16A
E	20-09-2018	DRAWING INDEX UPDATED
D	28-08-2018	DRAWING INDEX UPDATED
C	18-07-2018	MINKIN STREET INTERSECTION AMENDED
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

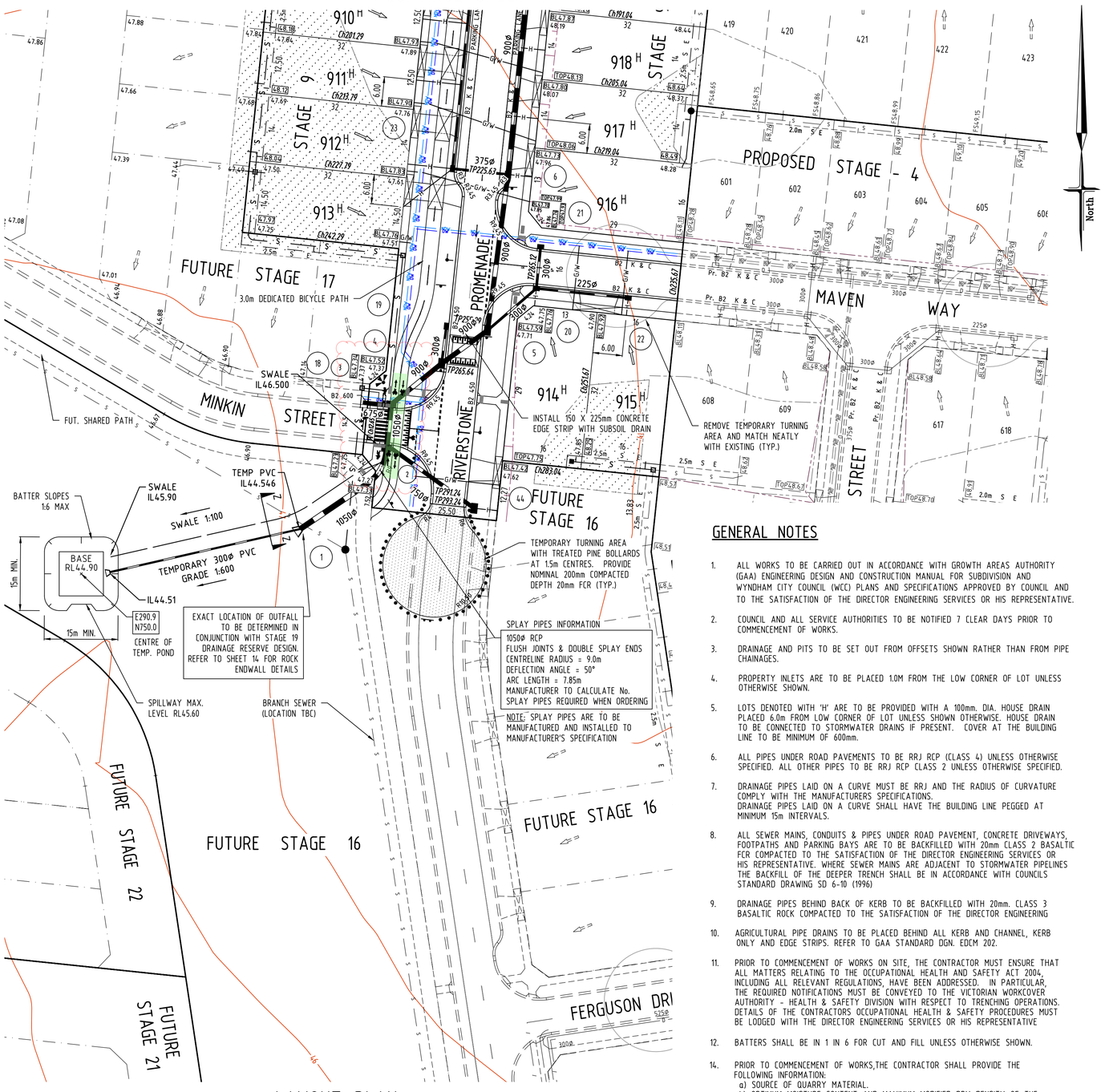
RIVERDALE VILLAGE STAGE 9

MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/9

SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 1 OF 25 | G

CONTINUE SHEET 1



LAYOUT PLAN

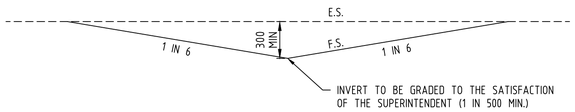
SCALE: 1:500

COUNCIL REF. No. 2315/17 - 6215/12

AS CONSTRUCTED

10 0 10 — 1:500 @ A1

ALL LENGTHS ARE IN METRES



SECTION Z-Z

TEMPORARY SWALE DRAIN (<0.8m DEPTH)

N.T.S.

WARNING

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GENERAL NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH GROWTH AREAS AUTHORITY (GAA) ENGINEERING DESIGN AND CONSTRUCTION MANUAL FOR SUBDIVISION AND WYNDHAM CITY COUNCIL (WCC) PLANS AND SPECIFICATIONS APPROVED BY COUNCIL AND TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.

2. COUNCIL AND ALL SERVICE AUTHORITIES TO BE NOTIFIED 7 CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.

3. DRAINAGE AND PITS TO BE SET OUT FROM OFFSETS SHOWN RATHER THAN FROM PIPE CHAINAGES.

4. PROPERTY INLETS ARE TO BE PLACED 1.0M FROM THE LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.

5. LOTS DENOTED WITH 'H' ARE TO BE PROVIDED WITH A 100mm. DIA. HOUSE DRAIN PLACED 6.0m FROM LOW CORNER OF LOT UNLESS SHOWN OTHERWISE. HOUSE DRAIN TO BE CONNECTED TO STORMWATER DRAINS IF PRESENT. COVER AT THE BUILDING LINE TO BE MINIMUM OF 600mm.

6. ALL PIPES UNDER ROAD PAVEMENTS TO BE RRJ RCP (CLASS 4) UNLESS OTHERWISE SPECIFIED. ALL OTHER PIPES TO BE RRJ RCP CLASS 2 UNLESS OTHERWISE SPECIFIED.

7. DRAINAGE PIPES LAID ON A CURVE MUST BE RRJ AND THE RADIUS OF CURVATURE COMPLY WITH THE MANUFACTURERS SPECIFICATIONS.
DRAINAGE PIPES LAID ON A CURVE SHALL HAVE THE BUILDING LINE PEGGED AT MINIMUM 15m INTERVALS.

8. ALL SEWER MAINS, CONDUITS & PIPES UNDER ROAD PAVEMENT, CONCRETE DRIVEWAYS, FOOTPATHS AND PARKING BAYS ARE TO BE BACKFILLED WITH 20mm CLASS 2 BASALTIC FCR COMPACTED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE. WHERE SEWER MAINS ARE ADJACENT TO STORMWATER PIPELINES THE BACKFILL OF THE DEEPER TRENCH SHALL BE IN ACCORDANCE WITH COUNCILS STANDARD DRAWING SD 6-10 (1996)

9. DRAINAGE PIPES BEHIND BACK OF KERB TO BE BACKFILLED WITH 20mm. CLASS 3 BASALTIC ROCK COMPACTED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING

10. AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS. REFER TO GAA STANDARD DGN. EDCM 202.

11. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORKCOVER AUTHORITY - HEALTH & SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH & SAFETY PROCEDURES MUST BE LODGED WITH THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE

12. BATTERS SHALL BE IN 1 IN 6 FOR CUT AND FILL UNLESS OTHERWISE SHOWN.

14. PRIOR TO COMMENCEMENT OF WORKS,THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
   a) SOURCE OF QUARRY MATERIAL.
   b) OPTIMUM MOISTURE CONTENT AND MAXIMUM MODIFIED DRY DENSITY OF THE F.C.R. TO BE USED (FROM NATA APPROVED LABORATORY).
   c) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF WORKS, NEW TEST RESULTS SHALL BE PROVIDED.

15. NO TOP SOIL SHALL BE REMOVED FROM LAND COVERED BY THE SUBDIVISION WITHOUT THE WRITTEN CONSENT OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.
THE TRUCK ROUTE FOR REMOVAL OF SPOIL FROM SITE IS TO BE SUBMITTED TO AND APPROVED BY THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE IN WRITING PRIOR TO COMMENCEMENT OF ANY WORK.

16. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND SPOIL FROM THE SITE.

17. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL NECESSARY SHORING AND PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS ETC. NECESSARY TO KEEP THE WORKS IN A SAFE AND STABLE CONDITION AND PROTECT THE PUBLIC FROM THE WORK AS PER AUSTRALIAN STANDARD AS1742.1.2.3 -1986.

18. REMOVAL OR RETENTION OF EXISTING TREES OR VEGETATION MUST BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS. NO MATERIAL IS TO BE BURNT ON SITE.

19. ANY FOOTPATH OR KERB AND CHANNEL DAMAGED DURING CONSTRUCTION AND MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.

20. LOTS TO BE GRADED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE. ALL LOTS TO BE 1 IN 150 MINIMUM SLOPE.

21. FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED USING APPROVED CLAY FILL, AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS3798-2007, SECTION 8.2, LEVEL 1 ("GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS"). ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT, FROM A NATA REGISTERED SOIL TESTING LABORATORY, NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.

22. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.

23. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES THESE SERVICES ARE TO BE LOCATED AND THE VARIOUS AUTHORITIES NOTIFIED PRIOR TO THE COMMENCEMENT OF WORKS.

24. THE WATER CONDUIT OFFSET FROM THE LOT BOUNDARY IS GIVEN ON THE WATER RETICULATION PLAN. THE CONTRACTOR MUST CONSTRUCT CONDUITS TO ACCORD WITH THE GIVEN OFFSET AND ENSURE THAT THE CONCRETER MARKS THE KERB AND FOOTPATH EXACTLY ABOVE THE CONDUIT.

25. TELSTRA/NBN CO TO BE NOTIFIED 7 DAYS PRIOR TO CONCRETE WORKS BEING PLACED.

26. ALL DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. REFER TO WCC STD. DRG. SD 4-1.

27. THE CONTRACTOR IS TO ARRANGE CCTV OF DRAINAGE AND ACCEPTANCE FROM COUNCIL PRIOR TO INSTALLATION OF THE KERB & CHANNEL AND ASPHALT PLACEMENT.

28. B2 PROFILE KERB AND CHANNEL TO BE CONSTRUCTED IN ALL STREETS UNLESS OTHERWISE SHOWN.

29. PSM'S TO BE LANDS DEPT. HIGH STABILITY TYPE. REFER TO COUNCIL STANDARD DRAWING SD11-10. AMG CO-ORDINATES AND AHD LEVEL TO BE SUPPLIED TO COUNCIL. (TO BE INSTALLED BY OTHERS)

30. LEVELS SHOWN THUS:
   - 28.57 DENOTES EXISTING SURFACE LEVEL
   - BL28.57 DENOTES F.S. LEVEL AT BUILDING LINE
   - TOP28.57 DENOTES F.S. LEVEL AT TOP OF BATTER
   - TOE28.57 DENOTES F.S. LEVEL AT TOE OF BATTER
   - 28.57 DENOTES F.S. LEVEL AT BACK OF LOTS
   - TW28.57 DENOTES TOP OF RETAINING WALL LEVEL

31. ALL SERVICE TRENCHES UNDER CONCRETE FOOTPATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK MATERIAL.

32. i - LEAKES ROAD FULL DEPTH PAVEMENT TO CONSIST OF:
   a) 40mm COMPACTED DEPTH 14mm NOMINAL SIZE TYPE 'H' ASPHALT WITH C320 BINDER. (ASPHALT TO BE 5mm PROUD OF LIP OF KERB)
   b) 75mm COMPACTED DEPTH 20mm NOMINAL SIZE TYPE 'SI' ASPHALT WITH C320 BINDER.
   c) 75mm COMPACTED DEPTH 20mm NOMINAL SIZE TYPE 'SF' ASPHALT WITH C320 BINDER.
   d) PRIME.
   e) 160mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa.
   f) 100mm COMPACTED DEPTH 40mm NOMINAL SIZE RIPPED ROCK. COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa. PERMEABILITY SHALL BE LESS THAN 1x10-9^ m/s.
   g) 300mm COMPACTED DEPTH SELECTED MATERIAL WITH MINIMUM SOAKED CBR OF 10%. COMPACTED TO 98% STANDARD DRY DENSITY WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 1.5%

   TOTAL PAVEMENT DEPTH 750mm

   ii - LEAKES ROAD ROUNDABOUT PAVEMENT TO CONSIST OF:
   a) 40mm COMPACTED DEPTH 14mm NOMINAL SIZE TYPE 'V' ASPHALT WITH C320 BINDER. (ASPHALT TO BE 5mm PROUD OF LIP OF KERB)
   b) 75mm COMPACTED DEPTH 20mm NOMINAL SIZE TYPE 'SI' ASPHALT WITH C320 BINDER.
   c) 75mm COMPACTED DEPTH 20mm NOMINAL SIZE TYPE 'SF' ASPHALT WITH C320 BINDER.
   d) PRIME.
   e) 160mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa.
   f) 100mm COMPACTED DEPTH 40mm NOMINAL SIZE RIPPED ROCK. COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa. PERMEABILITY SHALL BE LESS THAN 1x10-9^ m/s.
   g) 350mm COMPACTED DEPTH SELECTED MATERIAL WITH MINIMUM SOAKED CBR OF 10%. COMPACTED TO 98% STANDARD DRY DENSITY WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT AND A PERCENTAGE SWELL OF LESS THAN 1.5%

   TOTAL PAVEMENT DEPTH 800mm

   NOTE: LIMITS OF ROUNDABOUT PAVEMENT AS DIRECTED BY WYNDHAM CITY COUNCIL

   iii - RIVERSTONE PROMENADE ROAD PAVEMENT TO CONSIST OF:
   a) 40mm COMPACTED DEPTH 14mm NOMINAL SIZE TYPE 'H' ASPHALT WITH C320 BINDER. (ASPHALT TO BE 5mm PROUD OF LIP OF KERB)
   b) 80mm COMPACTED DEPTH 20mm NOMINAL SIZE TYPE 'SI' ASPHALT WITH C320 BINDER.
   c) 75mm COMPACTED DEPTH 20mm NOMINAL SIZE TYPE 'SF' ASPHALT WITH C320 BINDER.
   d) PRIME.
   e) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa.
   f) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 4 CRUSHED ROCK COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa.
   g) 250mm COMPACTED DEPTH 40mm RIPPED ROCK WITH A MINIMUM SOAKED CBR OF 10%, COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT. PERCENTAGE SWELL SHALL BE LESS THAN 1.5% AND PERMEABILITY SHALL BE LESS THAN $1x10^{-9}$ m/s.

   TOTAL PAVEMENT DEPTH 645mm

   iv - ORTIZ AVENUE, TEMPLE STREET, MAVEN WAY & PALLADINO WAY PAVEMENT TO CONSIST OF:
   a) 30mm COMPACTED DEPTH 10mm NOMINAL SIZE TYPE 'N' ASPHALT WITH C170 BINDER. (ASPHALT TO BE 5mm PROUD OF LIP OF KERB)
   b) 30mm COMPACTED DEPTH 10mm NOMINAL SIZE TYPE 'N' ASPHALT WITH C170 BINDER.
   c) 10mm SAMI SEAL/ PRIME.
   d) 125mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 2 F.C.R. COMPACTED TO AT LEAST 100% MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT AND TO ACHIEVE A MINIMUM YOUNG'S MODULUS OF 500 MPa.
   e) 100mm COMPACTED DEPTH 20mm NOMINAL SIZE CLASS 3 CEMENT TREATED CRUSHED ROCK COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT WITH A MINIMUM YOUNG'S MODULUS OF 500 MPa.
   f) 235mm COMPACTED DEPTH 40mm RIPPED ROCK WITH A MINIMUM SOAKED CBR OF 10%, COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT. PERCENTAGE SWELL SHALL BE LESS THAN 1.5% AND PERMEABILITY SHALL BE LESS THAN $1x10^{-9}$ m/s.

   TOTAL PAVEMENT DEPTH 530mm

33. ALL PAVEMENTS TO BE COMPACTED TO 98% AUSTRALIAN DRY DENSITY. PAVEMENT DEPTH MAY NOT BE MODIFIED UNLESS APPROVED BY COUNCIL TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.

34. ALL 125mm THICK FOOTPATH CONCRETE PAVING TO BE REINFORCED WITH SL72 MESH AND MUST BE CONSTRUCTED WITH A 50MM UNDERLAYER OF 20MM COMPACTED CLASS 3 FCR IN ACCORDANCE WITH GAA STANDARD DRAWING EDCM 401.

35. THE CONTRACTOR MUST COMPLETE A LEVEL CHECK BETWEEN ALL TBM'S TO VERIFY LEVEL VALUES BEFORE COMMENCEMENT OF WORKS. ALL TBM'S AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION. SHOULD ANY MARKS BE DISTURBED, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE DEVELOPER'S CONSULTANT TO ARRANGE RE-INSTATEMENT AT THE CONTRACTORS EXPENSE.

36. ALL SIGNS AND TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH AS 1742-1,2,3 -1986. LINE MARKING SHALL BE IN ACCORDANCE WITH VICROADS REQUIREMENT WITH LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 710 & 722).

37. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR MUST SUBMIT A SMP TO THE DEVELOPER'S CONSULTANT FOR APPROVAL. THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION NO.275 "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL". APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.

38. PRIOR TO START OF WORKS ON SITE, A PRE-COMMENCEMENT MEETING MUST BE HELD BETWEEN DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE, THE DEVELOPER'S CONSULTANT AND THE CONTRACTOR.

39. PRIOR TO COMMENCING WORKS ON SITE, THE CONTRACTOR MUST OBTAIN ROAD OPENING/WORKS PERMITS FROM COUNCIL FOR ANY WORKS WITHIN EXISTING ROAD RESERVES OR WORKS ON ANY EXISTING INFRASTRUCTURE.

40. STREET NAMES TO BE INSTALLED ON PUBLIC LIGHTING POLES AT INTERSECTIONS WHERE POSSIBLE. ALL SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD11-1.

41. LOCATION OF ALL UNDERGROUND SERVICE CONDUITS TO BE MARKED ON BOTH SIDES OF THE KERB AND CHANNEL WITH W FOR WATER, RW FOR RECYCLED WATER, G FOR GAS, T FOR TELECOMMUNICATIONS & E FOR ELECTRICITY (REFER TO STANDARD DRAWING SD11-8).

42. THE CONTRACTOR IS TO INSTALL BLUE RRPM'S ON THE ROAD CENTRLINE AND MARKER POSTS TO INDICATE THE LOCATION OF FIRE PLUGS OR HYDRANTS.

43. GAS AND WATER CONDUITS TO BE 50mm DIAMETER.

44. DEMOLITION WORKS TO INCLUDE BUT IS NOT LIMITED TO THE REMOVAL OF UNDERGROUND SERVICES, DRAINAGE & PITS, DISPOSAL OF MATERIAL FROM SITE, ALL TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE. EXCAVATIONS FROM TRENCHES OF REMOVED DRAINAGE AND SERVICES TO BE EXCAVATED TO A FIRM BASE,INSPECTED BY THE DEVELOPER'S CONSULTANT AND LEVELS TAKEN. APPROVED FILL MATERIAL SHALL BE PLACED AND COMPACTED TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.

SYMBOL LEGEND

Prop Drains
Exist Drains < 600 — 150
Exist Drains > 600 — 900
Prop Sewers < 300 — S
Prop Sewers > 300 — S
Exist Sewers < 300 — 150 — S
Exist Sewers > 300 — 300 — S
Prop Water — W
Prop Gas Conduit — G
Exist Water — 100 — W
Exist Gas — 100 — G
Exist Telstra/Optus — T/O
Exist Electricity — E
Prop 100mm Water Conduit — W100
House drain — H
Property Inlet
Street Sign
PSM
Existing Surface Level + 28.57
F.S. Level at Building Line + BL28.57
F.S. Level at Top of Batter TOP28.57
F.S. Level at Back of Lots + 28.57
Top of Retaining Wall Level+ TW28.57
F.S. Level Previous Stage + 28.57
Coloured Concrete Pavement
Fill > 200mm

VER.	DATE	REMARKS
C	18-07-2018	MINKIN STREET INTERSECTION AMENDED
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

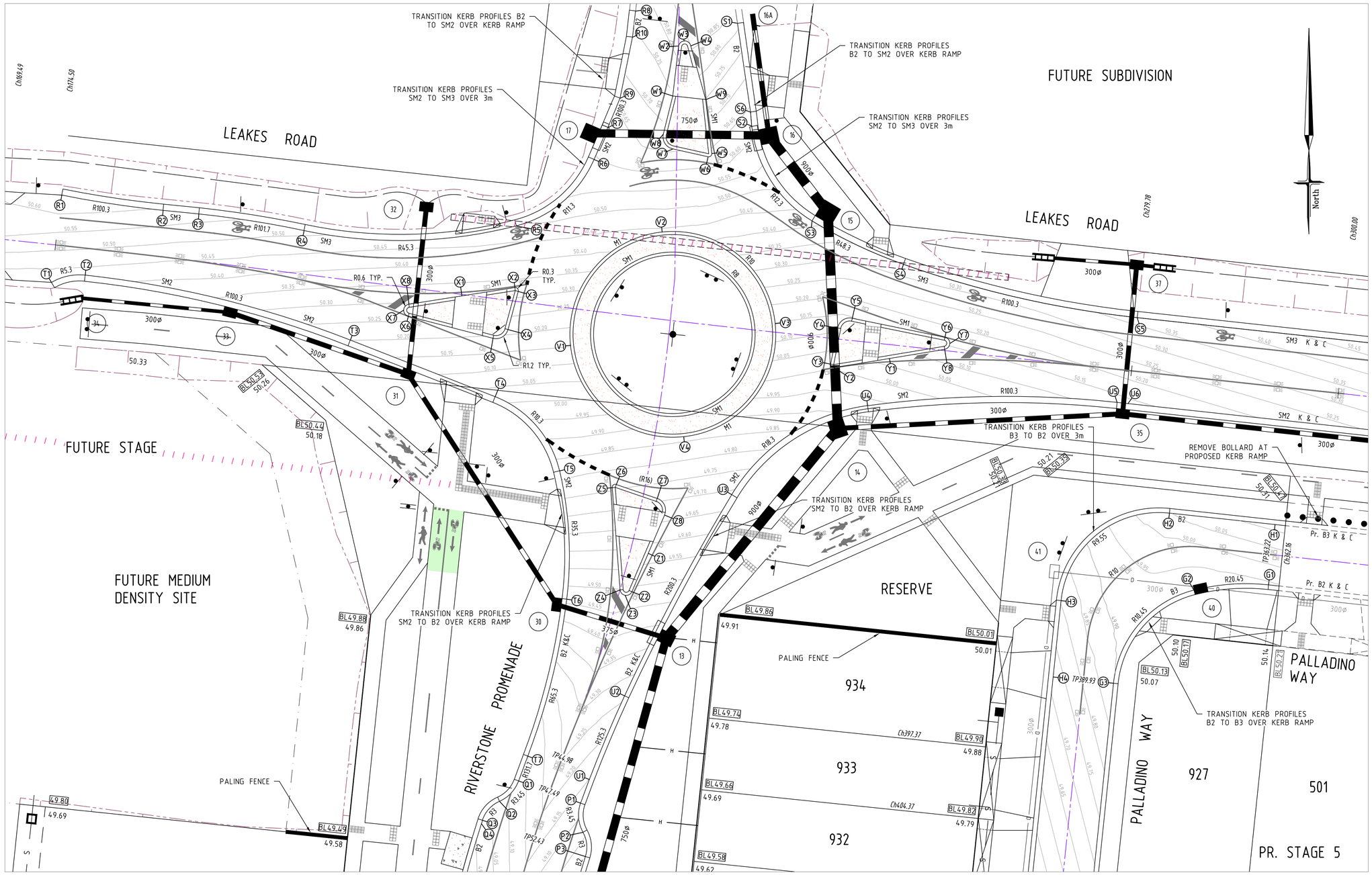
AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 9

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/9
SCALE: AS SHOWN | DATUM: AHD | DATE: NOV' 17
SHEET 2 OF 25 | C



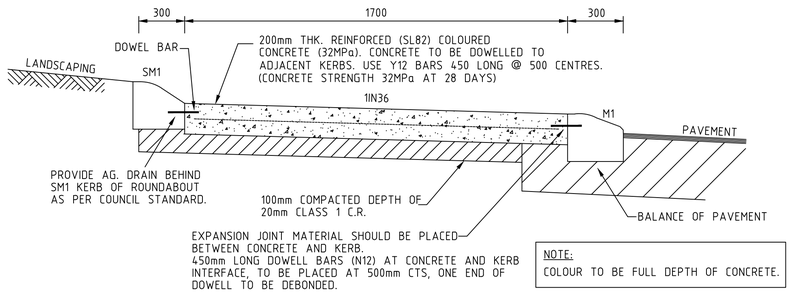
WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

NOTES:
1. REFER TO SHEET No. 15 FOR SIGNAGE AND LINEMARKING

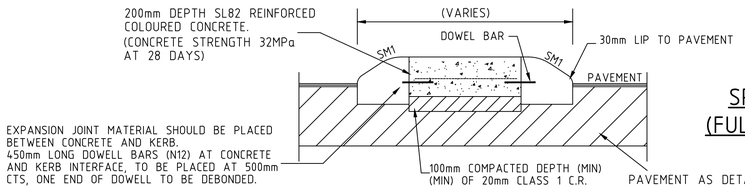
AS CONSTRUCTED



NOTE:
COLOUR TO BE FULL DEPTH OF CONCRETE.

SECTION THROUGH ROUNDABOUT

N.T.S.



SPLITTER ISLAND DETAIL (FULLY MOUNTABLE ISLAND)

N.T.S.

INTERSECTION DETAILS

4 0 4 1:200 @ A1

ALL LENGTHS ARE IN METRES

COUNCIL REF. No. 2315/17 - 6215/12

SYMBOL LEGEND

Prop Drains		Prop 100mm Water Conduit	W100
Exist Drains < 600	150	House drain	H
Exist Drains > 600	900	Property Inlet	
Prop Sewers < 300	S	Street Sign	
Prop Sewers > 300	S	PSM	
Exist Sewers < 300	150 S	Existing Surface Level	+ 28.57
Exist Sewers > 300	300 S	F.S. Level at Building Line	+ BL28.57
Prop Water	W	F.S. Level at Top of Batter	+ TOP28.57
Prop Gas Conduit	G	F.S. Level at Back of Lots	+ 28.57
Exist Water	100 W	Top of Retaining Wall Level	+ TW28.57
Exist Gas	100 G	F.S. Level Previous Stage	+ 28.57
Exist Telstra/Optus	T/O	Coloured Concrete Pavement	
Exist Electricity	E	Fill > 200mm	

VER.	DATE	REMARKS
C	01-10-2019	AMENDED LIPS R, S AND W
B	11-01-2019	ADDED ELEC CONDUIT AND STORM DRAIN LINE 16 -16A
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 9

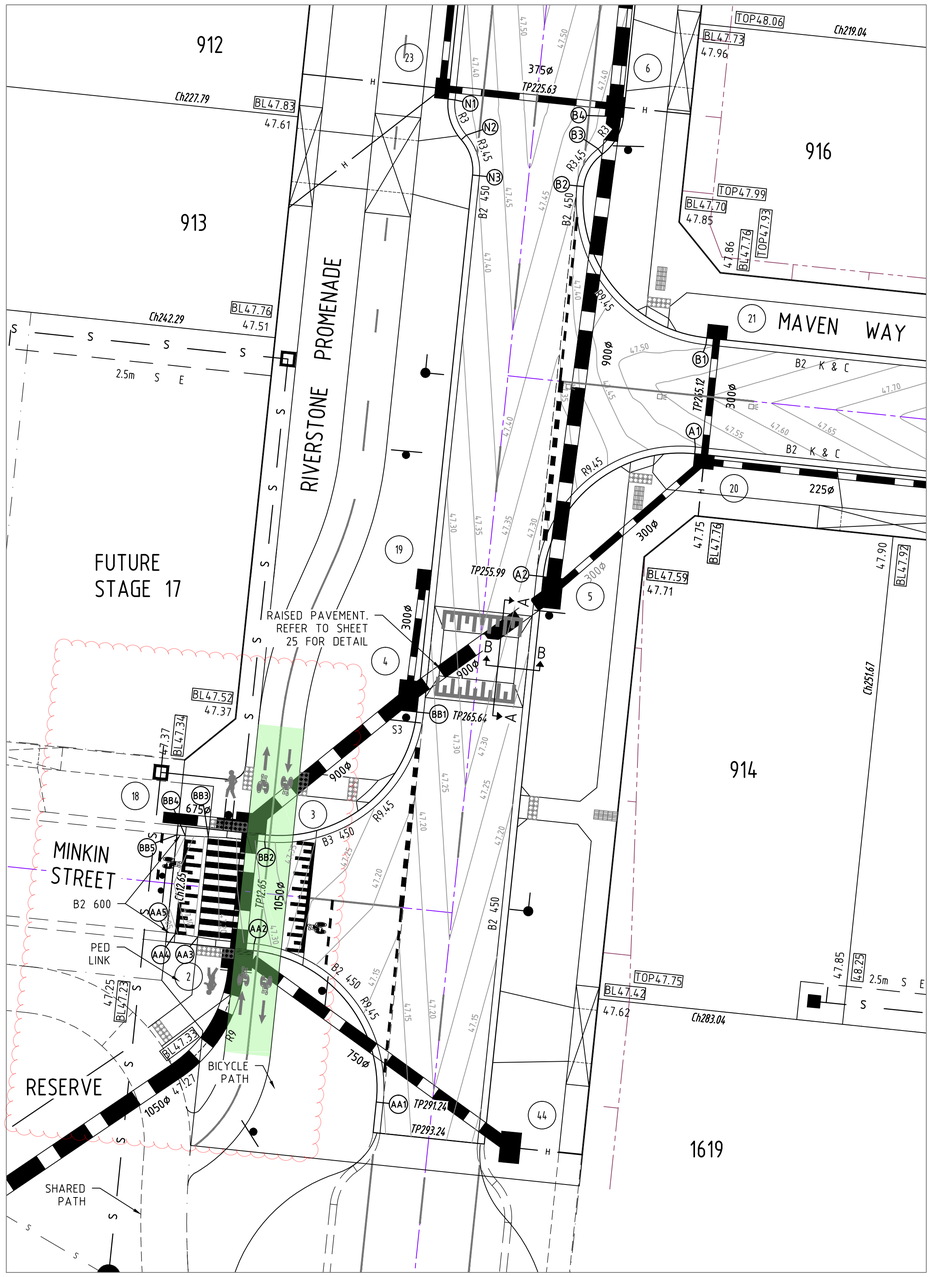
MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/9
SCALE AS SHOWN | DATUM AHD | DATE NOV' 17
SHEET 3 OF 25 | C

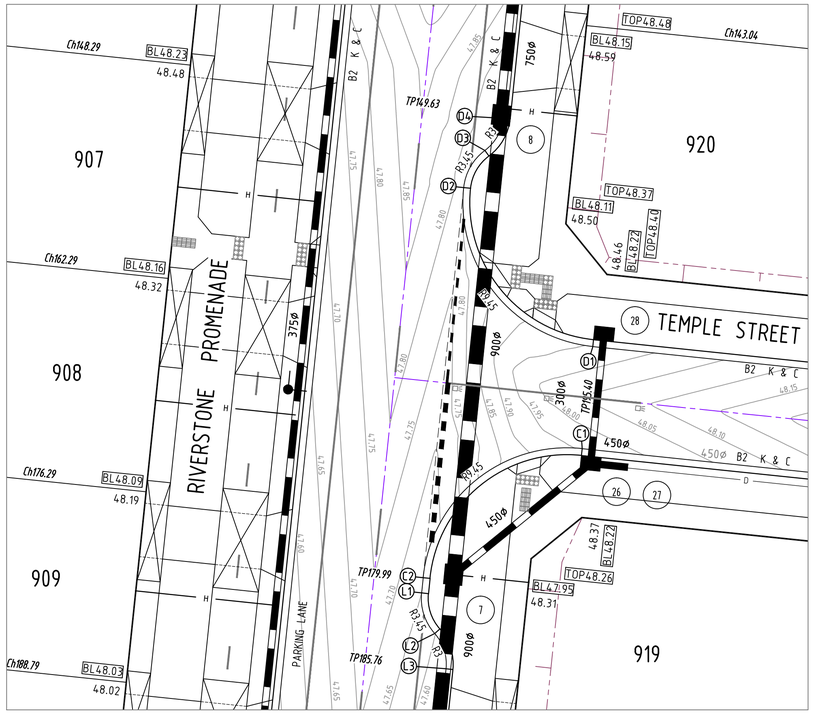
WARNING
BEWARE OF UNDERGROUND SERVICES

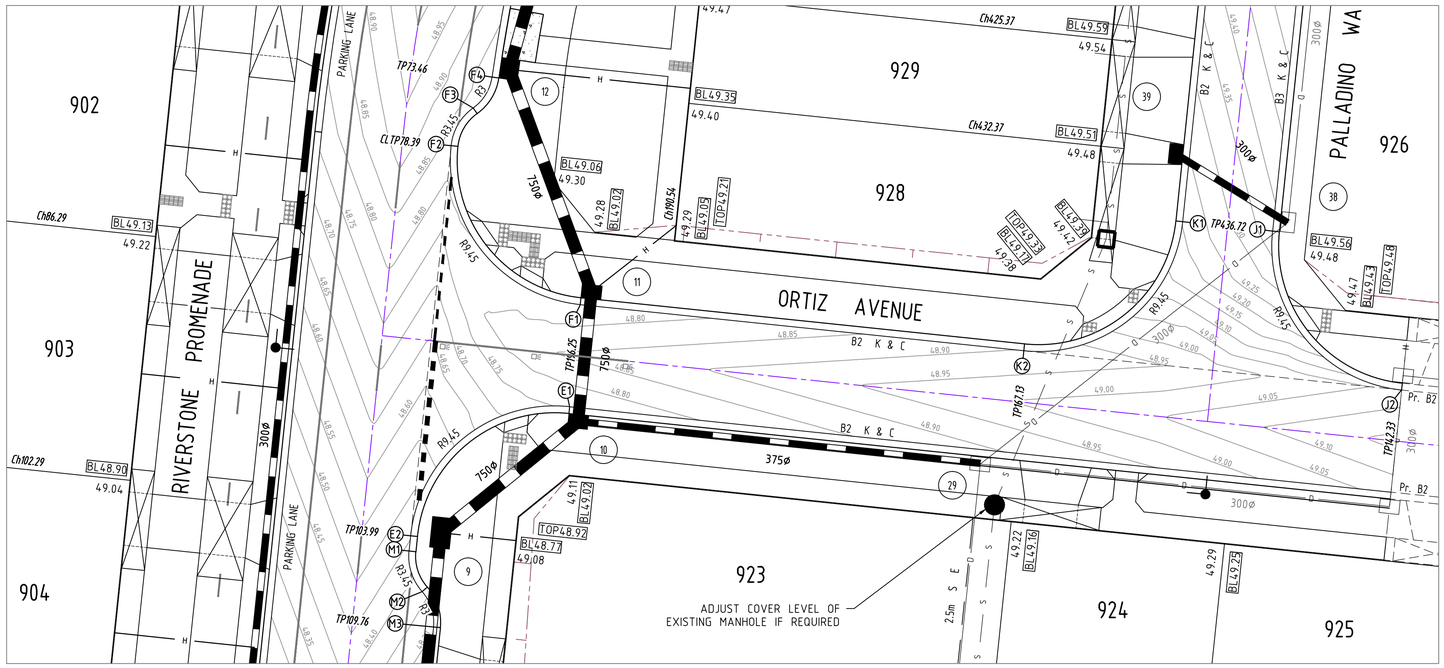
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

NOTES:
1. REFER TO SHEET No. 15 FOR SIGNAGE AND LINEMARKING

AS CONSTRUCTED







North

COUNCIL REF. No. 2315/17 - 6215/12

INTERSECTION DETAILS

4 0 4 1:200 @ A1

ALL LENGTHS ARE IN METRES

SYMBOL LEGEND

Prop Drains
Exist Drains < 600
Exist Drains > 600
Prop Sewers < 300
Prop Sewers > 300
Exist Sewers < 300
Exist Sewers > 300
Prop Water
Prop Gas Conduit
Exist Water
Exist Gas
Exist Telstra/Optus
Exist Electricity
Prop 100mm Water Conduit
House drain
Property Inlet
Street Sign
PSM
Existing Surface Level + 28.57
F.S. Level at Building Line + BL28.57
F.S. Level at Top of Batter TOP28.57
F.S. Level at Back of Lots + B8.57
Top of Retaining Wall Level+ TW28.57
F.S. Level Previous Stage + 28.57
Coloured Concrete Pavement
Fill > 200mm

AMENDMENTS

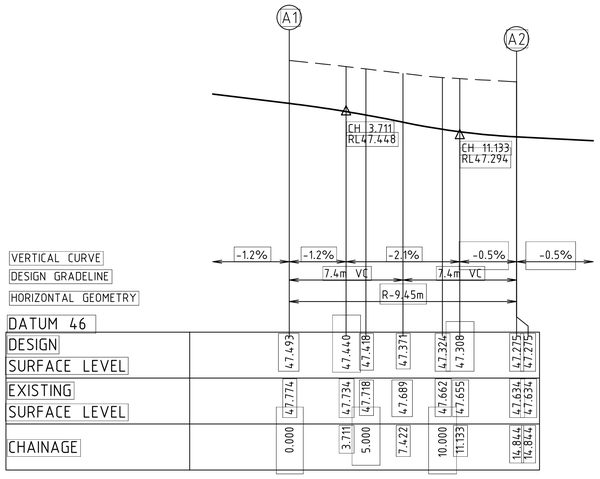
VER.	DATE	REMARKS
C	18-07-2018	MINKIN STREET INTERSECTION AMENDED
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

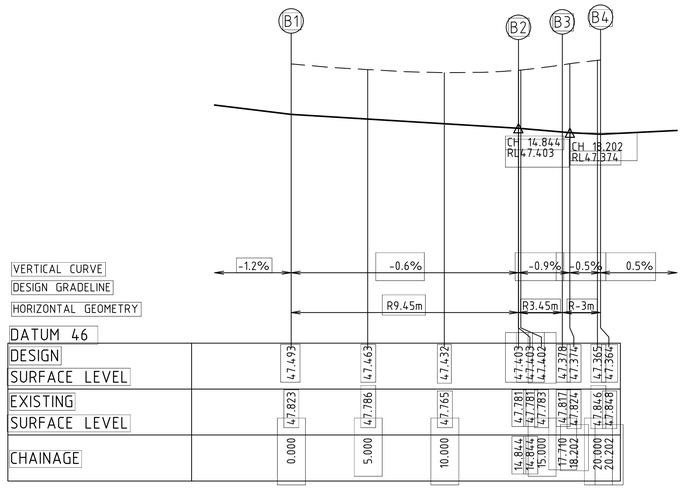
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 9

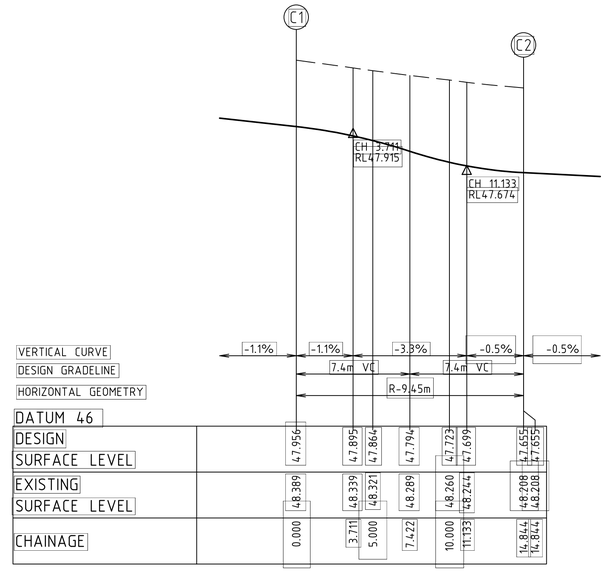
MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9
SCALE AS SHOWN | DATUM AHD | DATE NOV' 17
SHEET 3 OF 25 | C



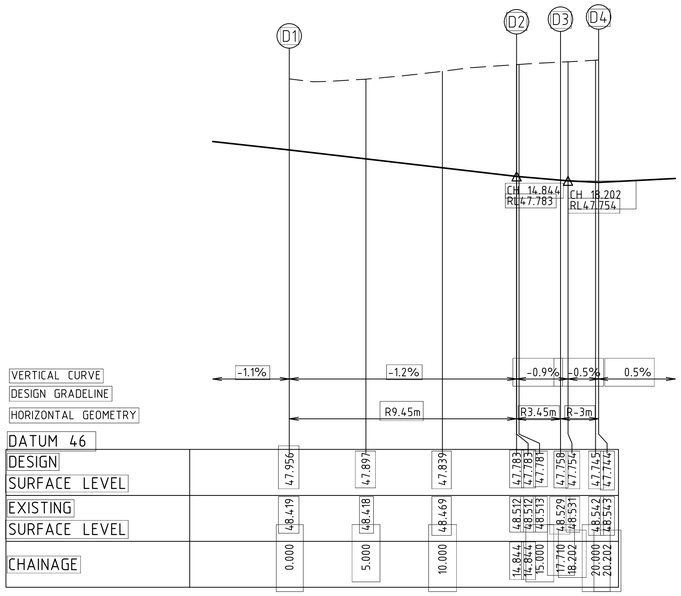
LIP LINE A



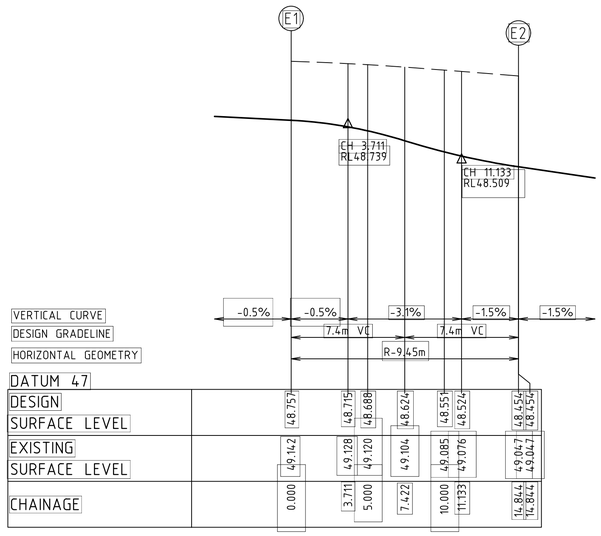
LIP LINE B



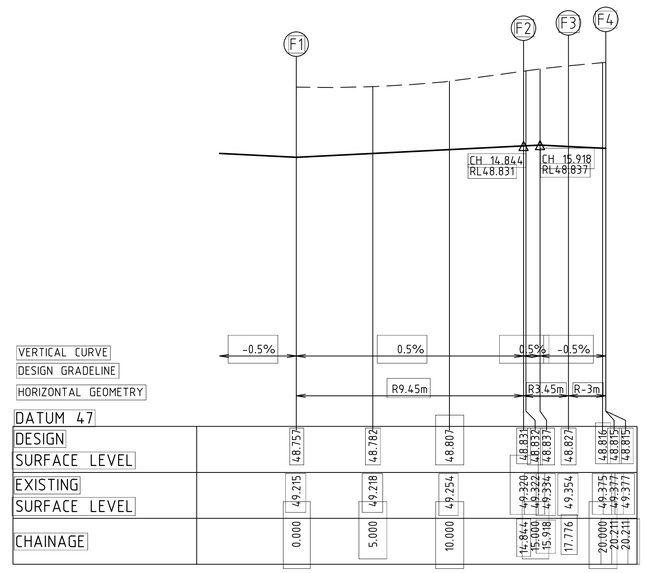
LIP LINE C



LIP LINE D



LIP LINE E

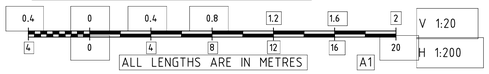


LIP LINE F

AS CONSTRUCTED

NOTES
1. CHAINAGES REFER TO LIP OF KERB
2. REFER TO SHEET No. 9 FOR SETOUT INFORMATION.

COUNCIL REF. No. 2315/17 - 6215/12



VER.	DATE	REMARKS
A	23-04-2018	ISSUED FOR CONSTRUCTION

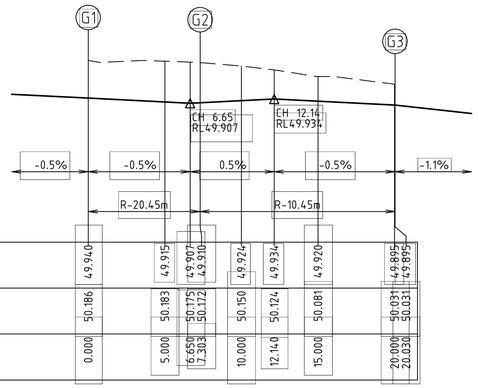
AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

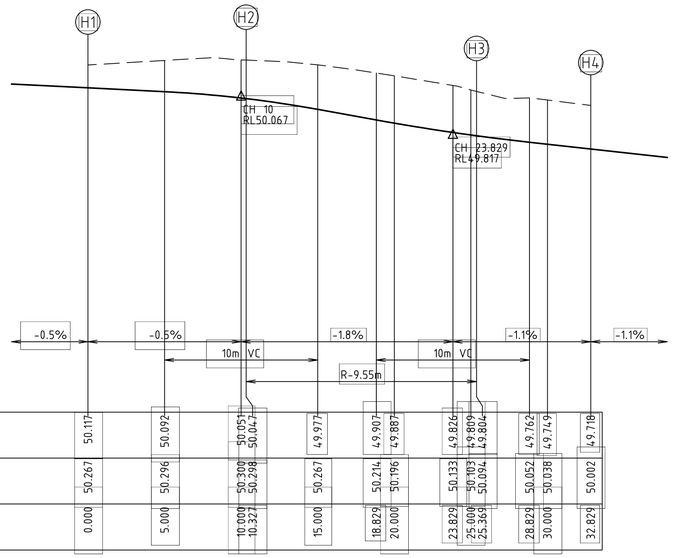
RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/9
SCALE: AS SHOWN
DATUM: AHD
DATE: NOV' 17
SHEET: 5 OF 25
A



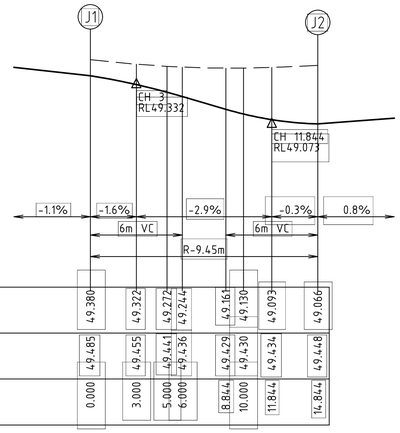
VERTICAL CURVE									
DESIGN GRADELINE									
HORIZONTAL GEOMETRY									
DATUM 49									
DESIGN SURFACE LEVEL	49.940	49.915	49.907	49.910	49.924	49.934	49.920	49.895	49.895
EXISTING SURFACE LEVEL	50.186	50.183	50.175	50.172	50.150	50.124	50.081	50.031	50.031
CHAINAGE	0.000	5.000	6.650	7.383	10.000	12.140	15.000	20.000	20.030

LIP LINE G



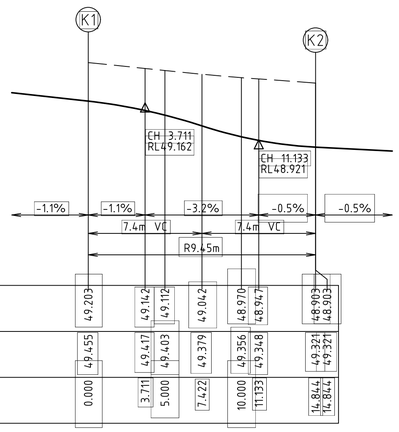
VERTICAL CURVE									
DESIGN GRADELINE									
HORIZONTAL GEOMETRY									
DATUM 48									
DESIGN SURFACE LEVEL	50.117	50.092	50.051	50.047	49.977	49.907	49.887	49.826	49.809	49.804	49.762	49.749	49.718
EXISTING SURFACE LEVEL	50.267	50.296	50.300	50.298	50.267	50.214	50.196	50.133	50.109	50.094	50.052	50.038	50.002
CHAINAGE	0.000	5.000	10.000	10.327	15.000	18.829	20.000	23.829	25.000	25.369	28.829	30.000	32.829

LIP LINE H



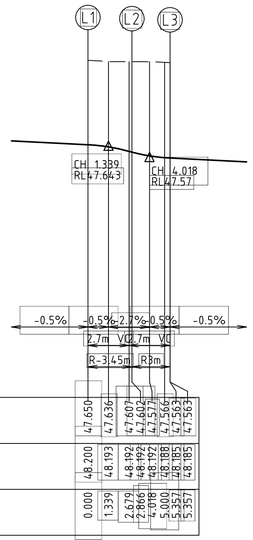
VERTICAL CURVE									
DESIGN GRADELINE									
HORIZONTAL GEOMETRY									
DATUM 48									
DESIGN SURFACE LEVEL	49.380	49.322	49.272	49.244	49.161	49.130	49.093	49.066
EXISTING SURFACE LEVEL	49.485	49.455	49.441	49.436	49.429	49.430	49.434	49.448
CHAINAGE	0.000	3.000	5.000	6.000	8.844	10.000	11.844	14.844

LIP LINE J



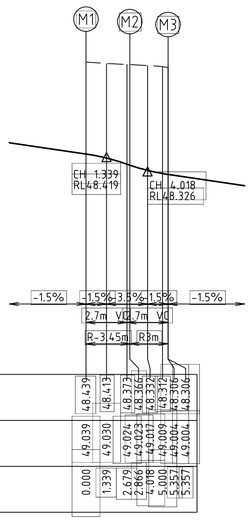
VERTICAL CURVE								
DESIGN GRADELINE								
HORIZONTAL GEOMETRY								
DATUM 48								
DESIGN SURFACE LEVEL	49.203	49.142	49.112	49.042	48.970	48.947	48.903	48.903
EXISTING SURFACE LEVEL	49.455	49.417	49.403	49.379	49.356	49.348	49.321	49.321
CHAINAGE	0.000	3.711	5.000	7.422	10.000	11.133	14.844	14.844

LIP LINE K



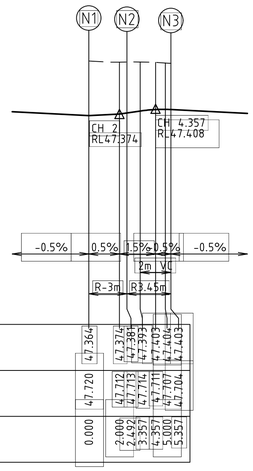
VERTICAL CURVE								
DESIGN GRADELINE								
HORIZONTAL GEOMETRY								
DATUM 46								
DESIGN SURFACE LEVEL	47.650	47.636	47.607	47.602	47.577	47.563	47.563	47.563
EXISTING SURFACE LEVEL	48.200	48.193	48.192	48.192	48.188	48.188	48.185	48.185
CHAINAGE	0.000	1.339	2.679	2.866	4.018	5.000	5.357	5.357

LIP LINE L



VERTICAL CURVE								
DESIGN GRADELINE								
HORIZONTAL GEOMETRY								
DATUM 47								
DESIGN SURFACE LEVEL	48.439	48.413	48.373	48.366	48.332	48.312	48.306	48.306
EXISTING SURFACE LEVEL	49.039	49.030	49.024	49.023	49.017	49.009	49.006	49.004
CHAINAGE	0.000	1.339	2.679	2.866	4.018	5.000	5.357	5.357

LIP LINE M



VERTICAL CURVE								
DESIGN GRADELINE								
HORIZONTAL GEOMETRY								
DATUM 46								
DESIGN SURFACE LEVEL	47.364	47.374	47.381	47.395	47.402	47.402	47.403
EXISTING SURFACE LEVEL	47.720	47.712	47.713	47.714	47.707	47.707	47.704
CHAINAGE	0.000	2.000	2.492	3.357	4.357	5.000	5.357

LIP LINE N

AS CONSTRUCTED

NOTES
1. CHAINAGES REFER TO LIP OF KERB
2. REFER TO SHEET Nos. 9 & 10 FOR SETOUT INFORMATION.

COUNCIL REF. No. 2315/17 - 6215/12

0.4 0 0.4 0.8 1.2 1.6 2 V 1:20
4 0 4 8 12 16 20 H 1:200
ALL LENGTHS ARE IN METRES
A1

VER.	DATE	REMARKS
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

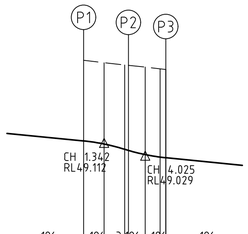
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/9
SCALE: AS SHOWN | DATUM: AHD | DATE: NOV' 17
SHEET 6 OF 25 | A

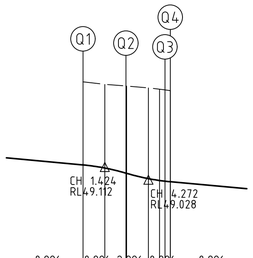
LIP, 23/04/2018 6:43:44 PM, 1:1



DATUM 48

DESIGN SURFACE LEVEL	49.125	49.105	49.070	49.063	49.036	49.019	49.015	49.015
EXISTING SURFACE LEVEL	49.652	49.636	49.621	49.619	49.607	49.596	49.591	49.591
CHAINAGE	0.000	1.342	2.684	2.932	4.025	5.000	5.367	5.387

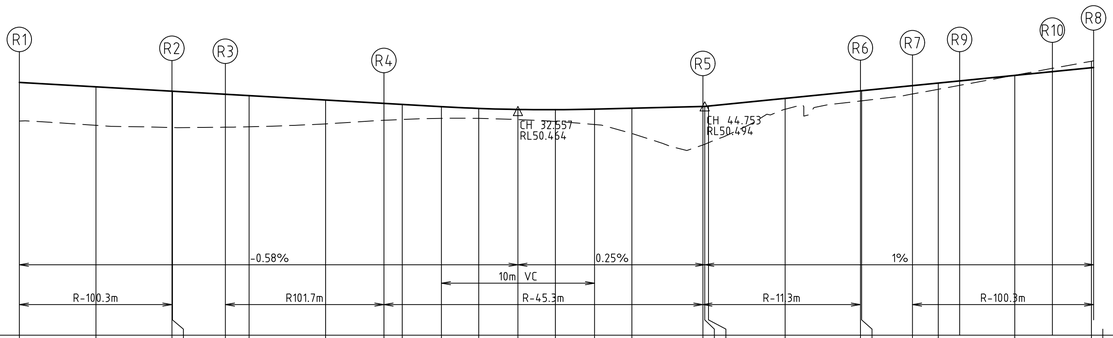
LIP LINE 9P



DATUM 48

DESIGN SURFACE LEVEL	49.125	49.105	49.071	49.070	49.035	49.020	49.019	49.015	49.015
EXISTING SURFACE LEVEL	49.668	49.651	49.640	49.640	49.628	49.619	49.615	49.610	49.610
CHAINAGE	0.000	1.424	2.804	2.848	4.272	5.000	5.350	5.696	5.696

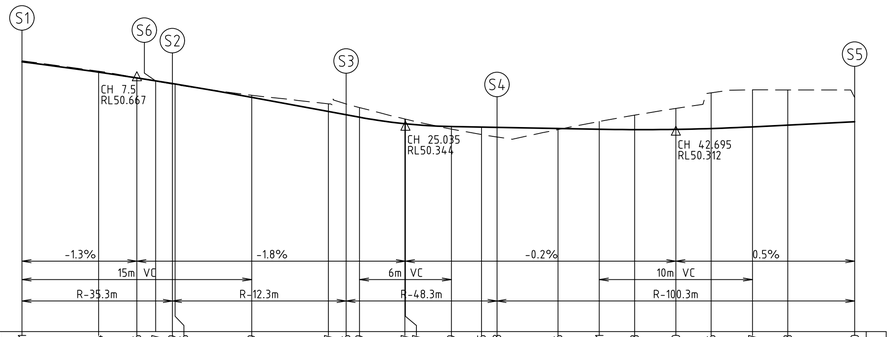
LIP LINE 9Q



DATUM 49

DESIGN SURFACE LEVEL	50.651	50.622	50.594	50.593	50.574	50.565	50.536	50.514	50.507	50.492	50.481	50.474	50.472	50.476	50.482	50.494	50.497	50.547	50.596	50.597	50.630	50.647	50.661	50.697	50.721	50.748
EXISTING SURFACE LEVEL	50.399	50.371	50.356	50.356	50.358	50.361	50.380	50.403	50.409	50.417	50.416	50.408	50.396	50.376	50.318	50.243	50.256	50.476	50.529	50.530	50.575	50.606	50.655	50.697	50.747	50.789
CHAINAGE	0.000	5.000	9.960	10.000	13.453	15.000	20.000	23.807	25.000	27.557	30.000	32.557	35.000	37.557	40.000	44.632	45.000	50.000	54.925	55.000	58.317	60.000	61.399	65.000	67.455	70.000

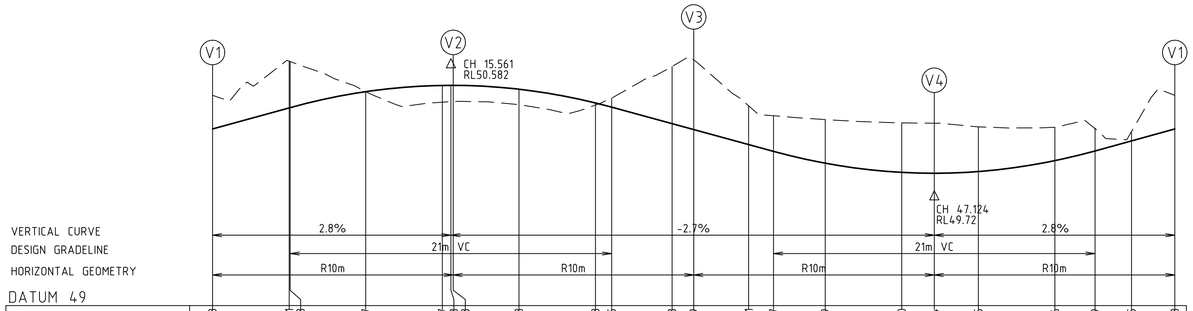
LIP LINE R



DATUM 49

DESIGN SURFACE LEVEL	50.761	50.694	50.656	50.637	50.619	50.616	50.529	50.437	50.416	50.399	50.357	50.357	50.339	50.335	50.333	50.326	50.321	50.318	50.320	50.326	50.337	50.348	50.370	
EXISTING SURFACE LEVEL	50.768	50.700	50.657	50.637	50.615	50.612	50.543	50.487	50.486	50.462	50.387	50.386	50.322	50.286	50.270	50.319	50.372	50.413	50.457	50.559	50.578	50.578	50.531	50.531
CHAINAGE	0.000	5.000	7.500	8.722	9.899	10.000	15.000	20.000	21.160	22.035	25.000	25.035	28.035	30.000	31.016	35.000	37.695	40.000	42.695	45.000	47.695	50.000	54.374	54.627

LIP LINE S



DATUM 49

DESIGN SURFACE LEVEL	50.153	50.291	50.293	50.397	50.437	50.438	50.438	50.413	50.323	50.295	50.188	50.149	50.051	50.007	49.929	49.870	49.864	49.875	49.946	50.009	50.075	50.153
EXISTING SURFACE LEVEL	50.372	50.595	50.593	50.396	50.329	50.332	50.332	50.312	50.307	50.355	50.561	50.604	50.303	50.239	50.214	50.193	50.191	50.167	50.163	50.159	50.136	50.372
CHAINAGE	0.000	5.000	5.061	10.000	15.000	15.561	15.708	20.000	25.000	26.061	30.000	31.416	35.000	36.624	40.000	45.000	47.124	50.000	55.000	57.624	60.000	62.832

LIP LINE V

AS CONSTRUCTED

NOTES
1. CHAINAGES REFER TO LIP OF KERB
2. REFER TO SHEET No. 10 FOR SETOUT INFORMATION.

COUNCIL REF. No. 2315/17 - 6215/12

0.4 0 0.4 0.8 1.2 1.6 2 V 1:20
4 0 4 8 12 16 20 H 1:200
ALL LENGTHS ARE IN METRES A1

VER.	DATE	REMARKS
B	01-10-2019	AMENDED KERB RETURNS R &S LONG SECTIONS
A	23-04-2018	ISSUED FOR CONSTRUCTION

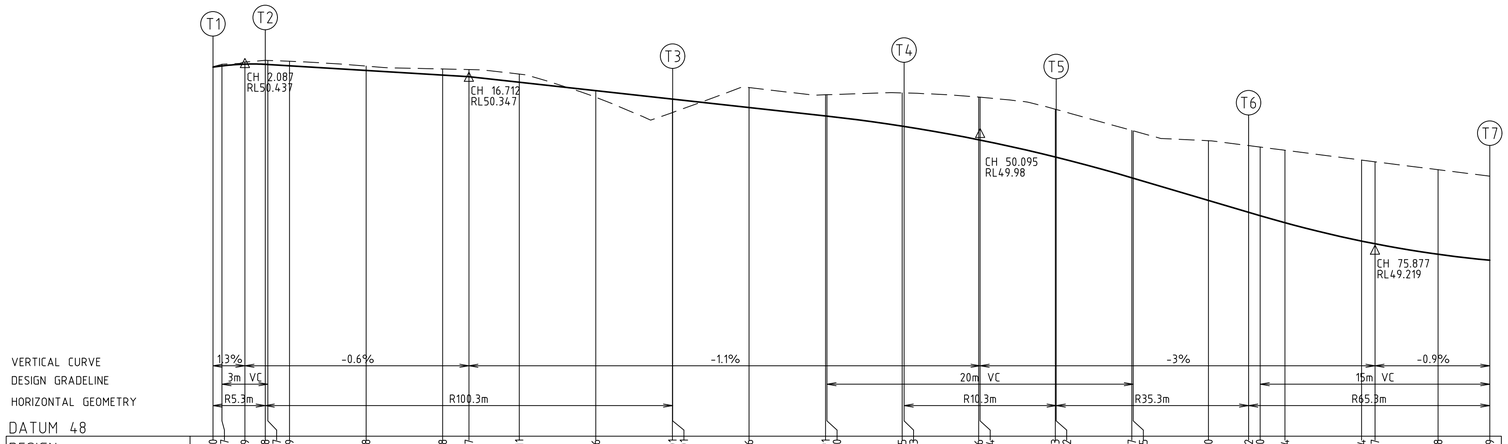
AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 9

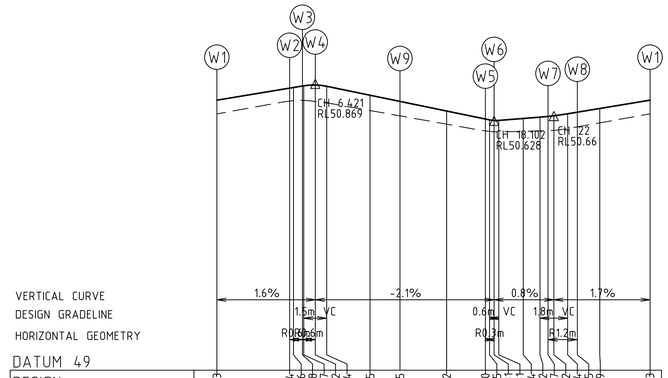
MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9
SCALE AS SHOWN DATUM AHD DATE NOV' 17
SHEET 7 OF 25 B



DATUM 48

DESIGN SURFACE LEVEL	50.410	50.417	50.429	50.428	50.427	50.419	50.380	50.358	50.347	50.311	50.256	50.201	50.201	50.146	50.091	50.090	50.025	50.023	49.936	49.934	49.823	49.822	49.687	49.685	49.540	49.462	49.440	49.394	49.274	49.257	49.188	49.149
EXISTING SURFACE LEVEL	50.412	50.430	50.444	50.454	50.453	50.448	50.417	50.398	50.394	50.365	50.213	50.113	50.114	50.277	50.229	50.230	50.242	50.241	50.215	50.214	50.135	50.133	49.996	49.994	49.930	49.898	49.888	49.867	49.803	49.792	49.740	49.698
CHAINAGE	0.000	0.587	2.087	3.411	3.587	5.000	10.000	15.000	16.712	20.000	25.000	30.000	30.014	35.000	40.000	40.095	45.000	45.128	50.000	50.095	55.000	55.061	60.000	60.095	65.000	67.627	68.377	70.000	75.000	75.877	80.000	83.377

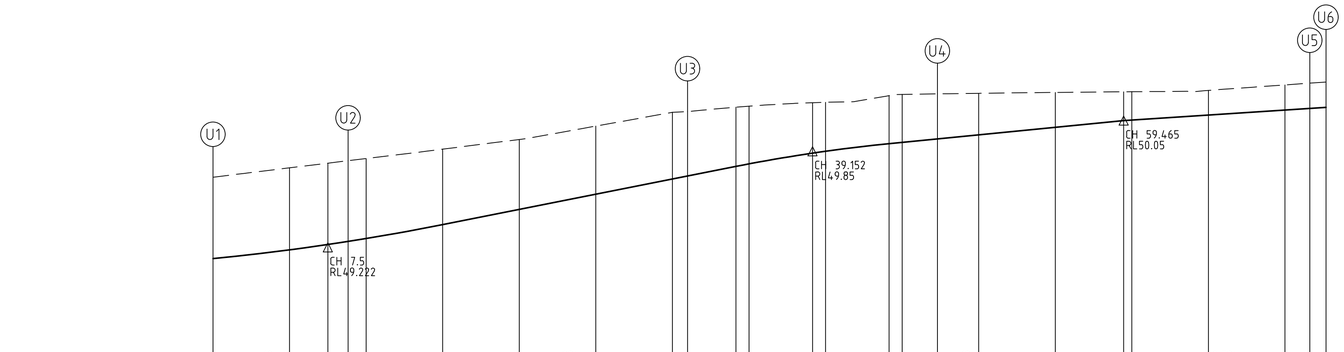
LIP LINE T



DATUM 49

DESIGN SURFACE LEVEL	50.763	50.844	50.846	50.853	50.857	50.862	50.854	50.795	50.755	50.692	50.640	50.637	50.635	50.631	50.644	50.652	50.651	50.662	50.676	50.685	50.709	50.763
EXISTING SURFACE LEVEL	50.674	50.757	50.760	50.761	50.763	50.755	50.744	50.695	50.643	50.606	50.563	50.557	50.557	50.557	50.560	50.563	50.564	50.571	50.578	50.589	50.615	50.674
CHAINAGE	0.000	4.749	5.000	5.077	5.671	6.421	7.171	10.000	11.952	15.000	17.531	17.802	18.037	18.402	20.000	21.100	21.621	22.000	22.900	23.533	25.000	28.282	50.674

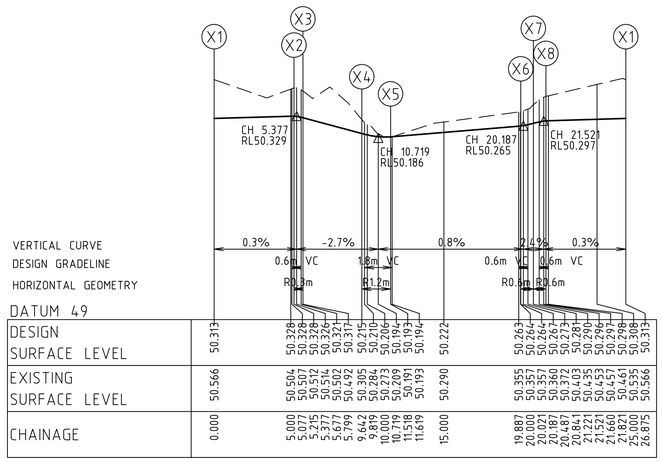
LIP LINE W



DATUM 48

DESIGN SURFACE LEVEL	49.149	49.206	49.241	49.261	49.280	49.371	49.470	49.569	49.668	49.688	49.751	49.767	49.838	49.850	49.899	49.908	49.930	49.957	50.006	50.050	50.053	50.086	50.119	50.129	50.136
EXISTING SURFACE LEVEL	49.680	49.742	49.772	49.788	49.802	49.863	49.927	50.014	50.104	50.109	50.138	50.144	50.167	50.170	50.213	50.221	50.225	50.228	50.234	50.238	50.238	50.247	50.283	50.294	50.302
CHAINAGE	0.000	5.000	7.500	8.825	10.000	15.000	20.000	25.000	30.000	30.993	34.152	35.000	39.152	40.000	44.152	45.000	47.310	50.000	55.000	59.465	60.000	65.000	70.000	71.620	72.678

LIP LINE U



DATUM 49

DESIGN SURFACE LEVEL	50.313	50.328	50.328	50.328	50.326	50.321	50.312	50.215	50.210	50.206	50.194	50.193	50.194	50.222	50.263	50.264	50.264	50.267	50.273	50.281	50.290	50.292	50.297	50.298	50.308	50.313
EXISTING SURFACE LEVEL	50.566	50.504	50.507	50.512	50.514	50.502	50.492	50.302	50.284	50.273	50.209	50.191	50.193	50.290	50.355	50.356	50.357	50.360	50.372	50.403	50.435	50.452	50.457	50.461	50.535	50.566
CHAINAGE	0.000	5.000	5.077	5.215	5.377	5.677	5.879	9.642	9.819	10.000	10.719	11.518	11.619	15.000	19.887	20.000	20.102	20.187	20.487	20.841	21.521	21.621	21.660	21.821	25.000	26.875

LIP LINE X

AS CONSTRUCTED

NOTES
1. CHAINAGES REFER TO LIP OF KERB
2. REFER TO SHEET No. 10 FOR SETOUT INFORMATION.

COUNCIL REF. No. 2315/17 - 6215/12

0.4 0 0.4 0.8 1.2 1.6 2 V 1:20
4 0 4 8 12 16 20 H 1:200
ALL LENGTHS ARE IN METRES A1

VER.	DATE	REMARKS
B	01-10-2019	AMENDED KERB RETURN W LONG SECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

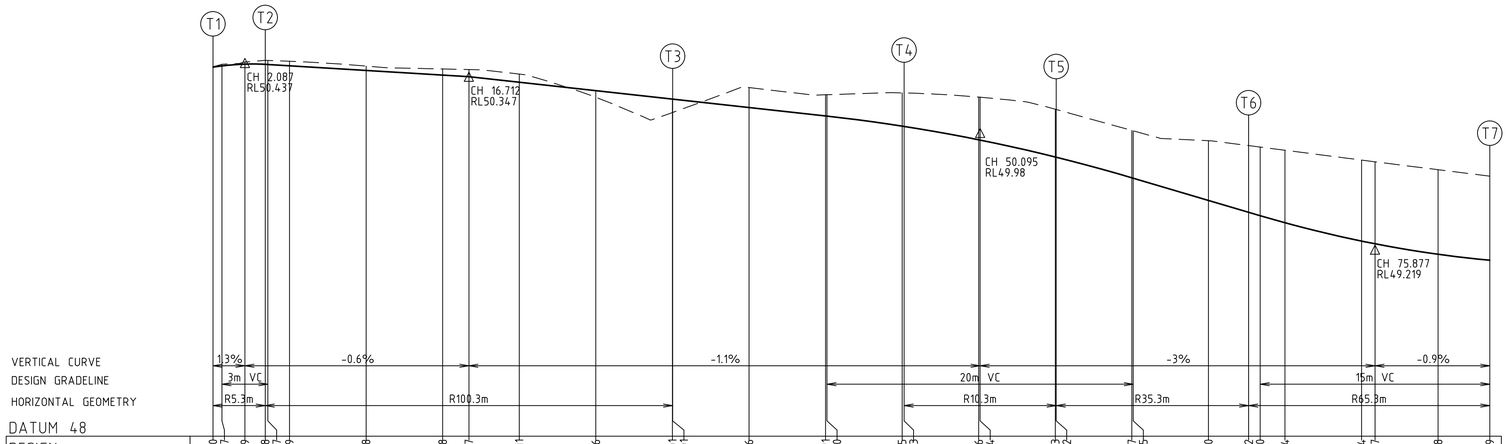
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9

SCALE AS SHOWN DATUM AHD DATE NOV' 17
SHEET 8 OF 25 B



DATUM 48

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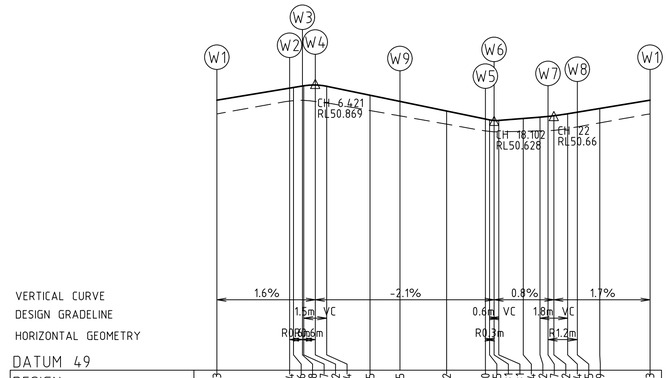
EXISTING SURFACE LEVEL	50.412	50.430	50.444	50.454	50.453	50.448	50.417	50.398	50.394	50.365	50.213	50.113	50.114	50.277	50.229	50.230	50.242	50.241	50.215	50.214	50.135	50.133	49.996	49.994	49.930	49.898	49.888	49.867	49.803	49.792	49.740	49.698
CHAINAGE	0.000	0.587	2.087	3.411	3.587	5.000	10.000	15.000	16.712	20.000	25.000	30.000	30.014	35.000	40.000	40.095	45.000	45.128	50.000	50.095	55.000	55.061	60.000	60.095	65.000	67.627	68.377	70.000	75.000	75.877	80.000	83.377

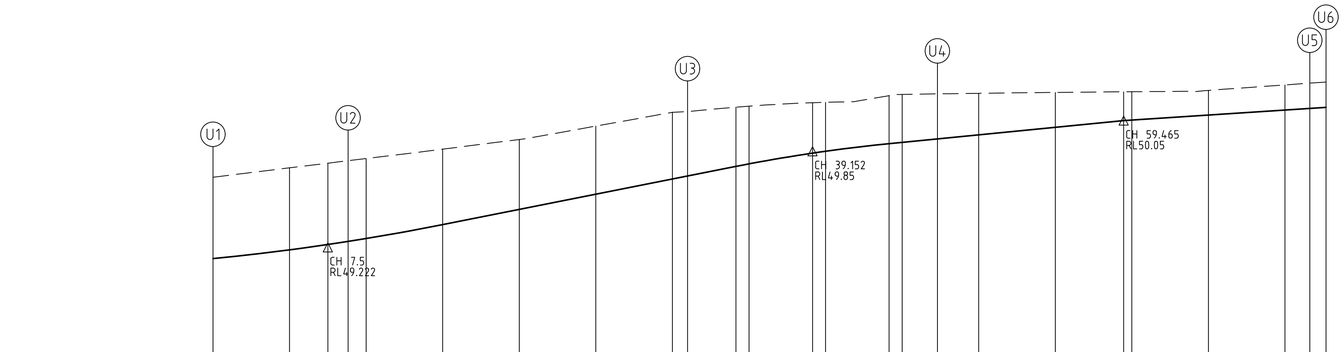
LIP LINE T



DATUM 49

DESIGN SURFACE LEVEL	50.763	50.844	50.846	50.856	50.857	50.862	50.854	50.795	50.755	50.692	50.640	50.637	50.637	50.631	50.644	50.652	50.651	50.662	50.672	50.685	50.709	50.763
EXISTING SURFACE LEVEL	50.674	50.757	50.760	50.759	50.763	50.755	50.744	50.695	50.643	50.606	50.563	50.557	50.557	50.557	50.560	50.563	50.564	50.567	50.578	50.589	50.615	50.674
CHAINAGE	0.000	4.749	5.000	5.077	5.671	6.421	7.171	10.000	11.952	15.000	17.531	17.802	18.151	18.402	20.000	21.100	21.621	22.000	22.900	23.533	25.000	28.282

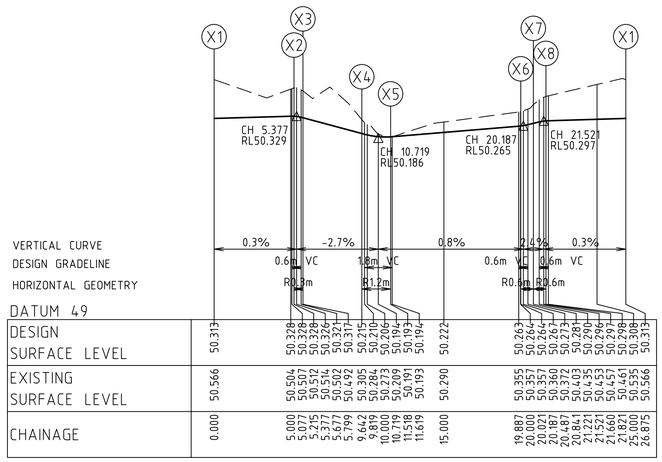
LIP LINE W



DATUM 48

DESIGN SURFACE LEVEL	49.149	49.206	49.241	49.261	49.280	49.371	49.470	49.569	49.668	49.688	49.751	49.767	49.838	49.850	49.899	49.908	49.930	49.957	50.006	50.050	50.053	50.086	50.119	50.129	50.136
EXISTING SURFACE LEVEL	49.680	49.742	49.772	49.788	49.802	49.863	49.927	50.014	50.104	50.109	50.138	50.144	50.167	50.170	50.213	50.221	50.225	50.228	50.234	50.238	50.238	50.247	50.283	50.294	50.302
CHAINAGE	0.000	5.000	7.500	8.825	10.000	15.000	20.000	25.000	30.000	30.993	34.152	35.000	39.152	40.000	44.152	45.000	47.310	50.000	55.000	59.465	60.000	65.000	70.000	71.620	72.678

LIP LINE U



DATUM 49

DESIGN SURFACE LEVEL	50.313	50.328	50.328	50.328	50.326	50.321	50.317	50.215	50.210	50.206	50.194	50.193	50.194	50.222	50.263	50.264	50.264	50.267	50.273	50.281	50.290	50.291	50.297	50.298	50.308	50.313
EXISTING SURFACE LEVEL	50.566	50.504	50.507	50.512	50.514	50.502	50.492	50.302	50.284	50.273	50.209	50.191	50.193	50.290	50.355	50.356	50.357	50.360	50.372	50.403	50.435	50.457	50.457	50.461	50.535	50.566
CHAINAGE	0.000	5.000	5.077	5.215	5.377	5.677	5.879	9.642	9.819	10.000	10.719	11.518	11.619	15.000	19.887	20.000	20.021	20.187	20.487	20.841	21.521	21.621	21.660	21.821	25.000	26.875

LIP LINE X

AS CONSTRUCTED

NOTES
1. CHAINAGES REFER TO LIP OF KERB
2. REFER TO SHEET No. 10 FOR SETOUT INFORMATION.

COUNCIL REF. No. 2315/17 - 6215/12

0.4 0 0.4 0.8 1.2 1.6 2 V 1:20
4 0 4 8 12 16 20 H 1:200
ALL LENGTHS ARE IN METRES A1

VER.	DATE	REMARKS
B	01-10-2019	AMENDED KERB RETURN W LONG SECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

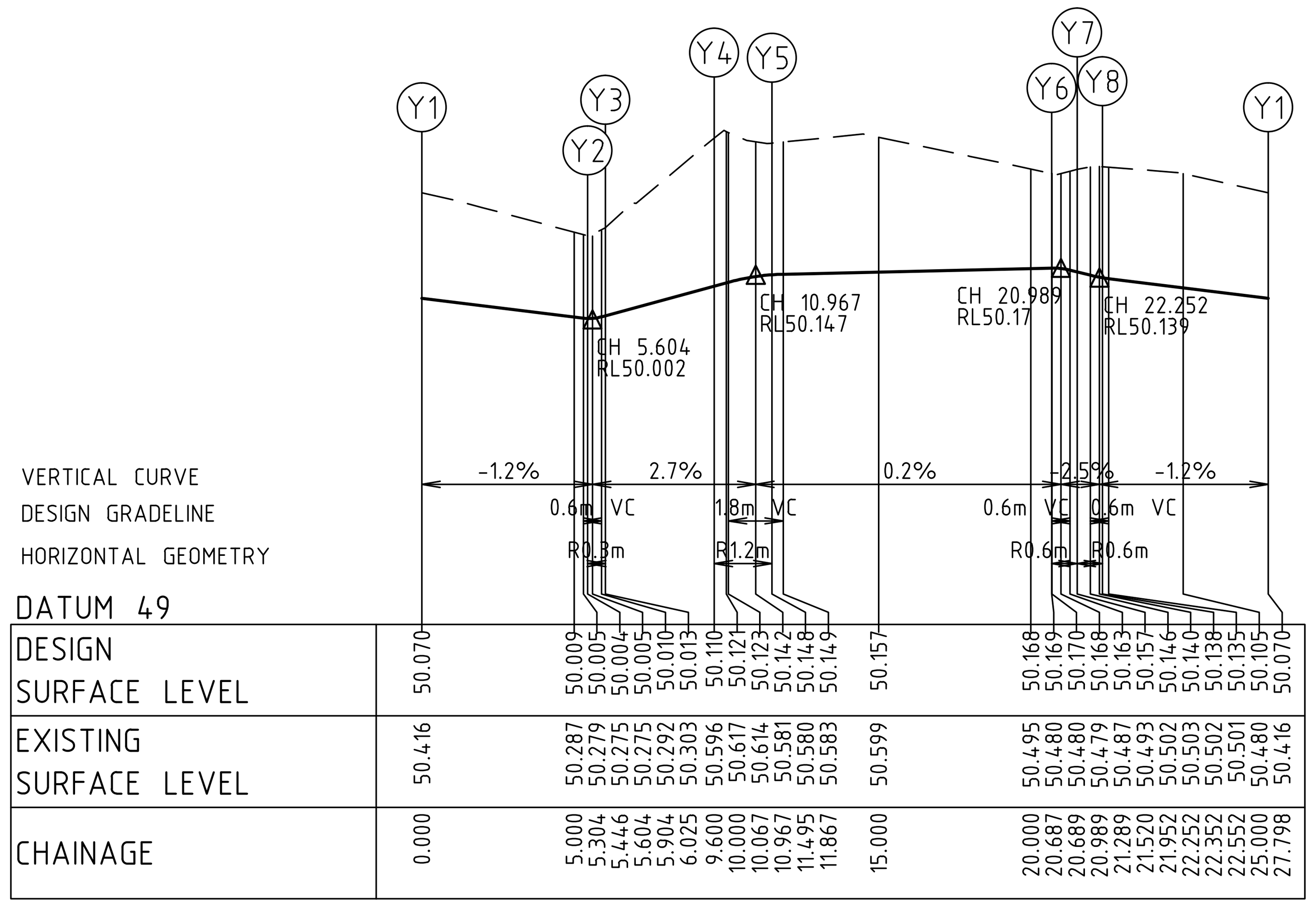
AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

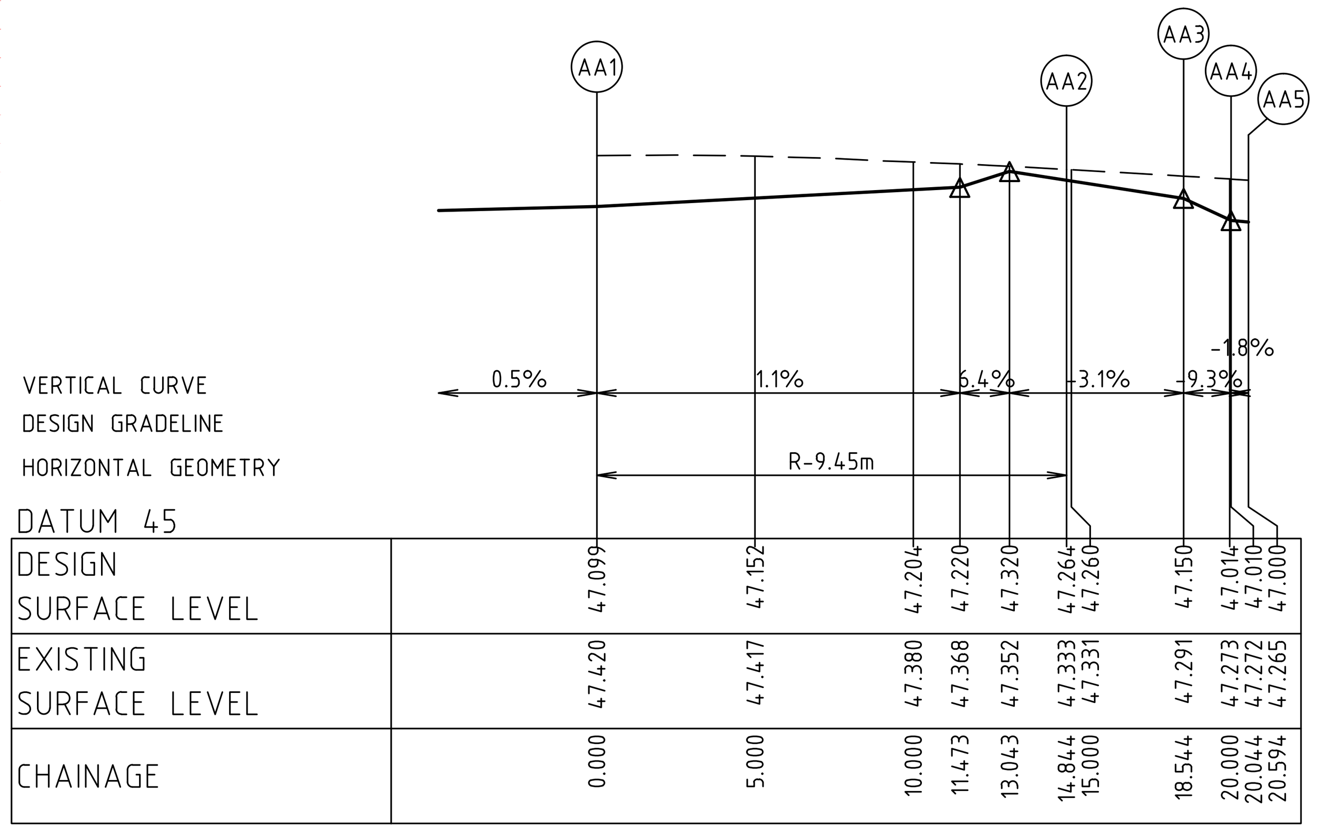
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 9

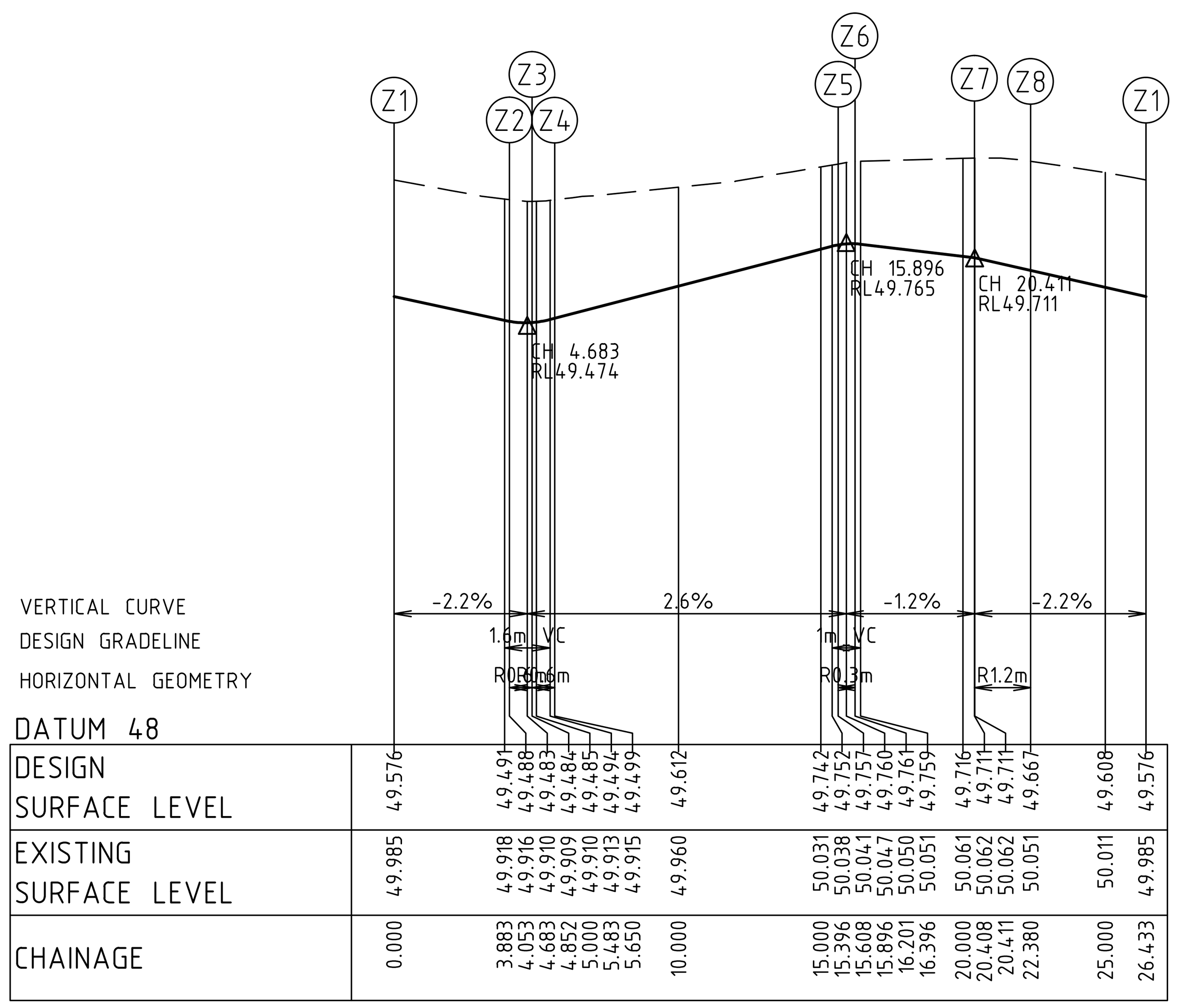
MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9
SCALE AS SHOWN DATUM AHD DATE NOV' 17
SHEET 8 OF 25 B



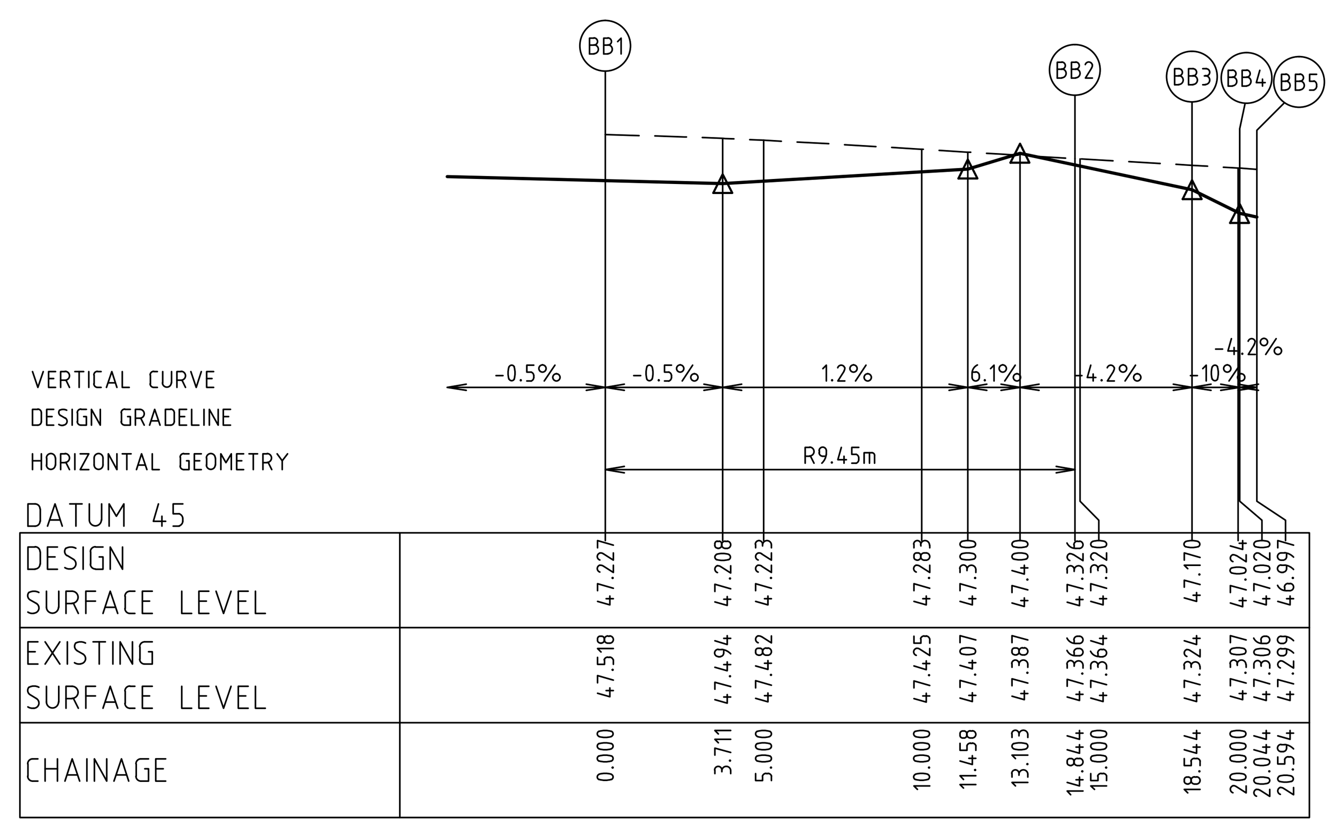
LIP LINE Y



LIP LINE AA



LIP LINE Z



LIP LINE BB

KERB RETURN SETOUT:

RETURN A

Point no	Easting	Northing	RL
A1	382.917	809.076	47.493
A2	372.540	800.654	47.275

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 – A2	90.000	9.450	14.844	2.768	2.048	3.616	3.066	3.711	47.371

RETURN B

Point no	Easting	Northing	RL
B1	383.610	815.740	47.493
B2	375.188	826.116	47.403
B3	376.569	828.534	47.378
B4	377.769	830.636	47.364

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 – B2	90.000	9.450	14.844	2.768	2.049	3.616	3.066	3.711	47.448
B2 – B3	47.591	3.450	2.866	0.293	0.219	0.711	0.681	0.716	47.391
B3 – B4	47.591	3.000	2.492	0.255	0.191	0.618	0.592	0.623	47.370

RETURN C

Point no	Easting	Northing	RL
C1	390.777	884.668	47.956
C2	380.400	876.246	47.655

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 – C2	90.000	9.450	14.844	2.768	2.048	3.616	3.066	3.711	47.794

RETURN D

Point no	Easting	Northing	RL
D1	391.470	891.332	47.956
D2	383.048	901.709	47.783
D3	384.429	904.126	47.758
D4	385.629	906.229	47.744

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
D1 – D2	90.000	9.450	14.844	2.768	2.049	3.616	3.066	3.711	47.869
D2 – D3	47.591	3.450	2.866	0.293	0.219	0.711	0.681	0.716	47.770
D3 – D4	47.591	3.000	2.492	0.255	0.191	0.618	0.592	0.623	47.750

RETURN E

Point no	Easting	Northing	RL
E1	398.637	960.261	48.757
E2	388.260	951.839	48.454

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E1 – E2	90.000	9.450	14.844	2.768	2.048	3.616	3.066	3.711	48.624

RETURN F

Point no	Easting	Northing	RL
F1	399.330	966.925	48.757
F2	390.908	977.301	48.831
F3	392.343	979.758	48.827
F4	393.576	981.780	

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F1 – F2	90.000	9.450	14.844	2.768	2.049	3.616	3.066	3.711	48.794
F2 – F3	48.701	3.450	2.932	0.307	0.229	0.728	0.695	0.733	48.835
F3 – F4	46.500	3.000	2.435	0.244	0.182	0.605	0.580	0.609	48.821

RETURN G

Point no	Easting	Northing	RL
G1	464.436	1027.826	49.940
G2	457.190	1027.314	49.910
G3	449.374	1018.267	49.895

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
G1 – G2	20.460	20.450	7.303	0.325	0.244	1.823	1.809	1.826	49.922
G2 – G3	69.785	10.450	12.728	1.879	1.398	3.133	2.845	3.182	49.927

RETURN H

Point no	Easting	Northing	RL
H1	465.071	1033.692	50.117
H2	454.804	1034.804	50.047
H3	444.277	1026.297	49.804
H4	443.506	1018.877	49.718

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
H2 – H3	90.245	9.550	15.042	2.812	2.081	3.664	3.103	3.760	49.925

RETURN J

Point no	Easting	Northing	RL
J1	444.535	971.725	49.380
J2	452.957	961.349	49.066

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
J1 – J2	90.000	9.450	14.844	2.768	2.049	3.616	3.066	3.711	49.203

AS CONSTRUCTED

NOTES
1. CHAINAGES REFER TO LIP OF KERB
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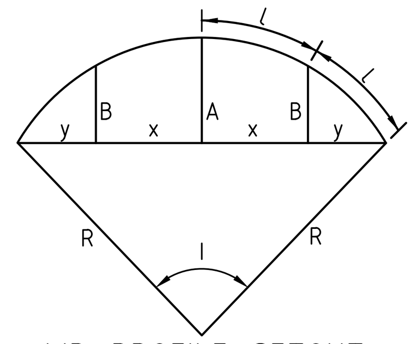


LIP PROFILE SETOUT

COUNCIL REF. No. 2315/17 - 6215/12

0.4 0 0.4 0.8 1.2 1.6 2 V 1:20
4 0 4 8 12 16 20 H 1:200
ALL LENGTHS ARE IN METRES A1

AMENDMENTS		
VER.	DATE	REMARKS
C	18-07-2018	LIP AA & BB LS AMENDED
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

MELWAY REF.	234-G-2
SURVEY	BPD
DESIGN	L.G.
DRAWN	L.G.
CHECKED	

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/9

SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 9 OF 25 | C

KERB RETURN SETOUT:

RETURN K

Point no	Easting	Northing	RL
K1	438.666	972.336	49.203
K2	428.290	963.914	48.903

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
K1 – K2	90.000	9.450	14.844	2.768	2.049	3.616	3.066	3.711	49.042

RETURN L

Point no	Easting	Northing	RL
L1	380.297	875.252	47.650
L2	381.151	872.602	47.602
L3	381.893	870.298	47.563

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
L1 – L2	47.591	3.450	2.866	0.293	0.219	0.711	0.681	0.716	47.634
L2 – L3	47.591	3.000	2.492	0.255	0.191	0.618	0.592	0.623	47.576

RETURN M

Point no	Easting	Northing	RL
M1	388.157	950.844	48.439
M2	389.011	948.194	48.366
M3	389.753	945.890	48.306

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
M1 – M2	47.591	3.450	2.866	0.293	0.219	0.711	0.681	0.716	48.410
M2 – M3	47.591	3.000	2.492	0.255	0.191	0.618	0.592	0.623	48.330

RETURN N

Point no	Easting	Northing	RL
N1	367.226	831.732	47.364
N2	367.968	829.428	47.381
N3	368.822	826.778	47.403

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
N1 – N2	47.591	3.000	2.492	0.255	0.191	0.618	0.592	0.623	47.370
N2 – N3	47.591	3.450	2.866	0.293	0.219	0.711	0.681	0.716	47.400

RETURN P

Point no	Easting	Northing	RL
P1	397.581	1006.613	49.125
P2	397.811	1003.777	49.063
P3	398.048	1001.420	49.015

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
P1 – P2	48.701	3.450	2.932	0.307	0.229	0.728	0.695	0.733	49.102
P2 – P3	46.500	3.000	2.435	0.244	0.182	0.605	0.580	0.609	49.033

RETURN Q

Point no	Easting	Northing	RL
Q1	391.556	1008.772	49.125
Q2	389.696	1006.777	49.071
Q3	388.043	1004.940	49.019
Q4	387.939	1004.610	49.015

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
Q1 – Q2	46.573	3.450	2.804	0.281	0.210	0.696	0.668	0.701	49.105
Q2 – Q3	48.626	3.000	2.546	0.266	0.199	0.632	0.603	0.637	49.039
Q3 – Q4	0.148	133.800	0.346	0.000	0.000	0.087	0.087	0.087	49.017

RETURN R

Point no	Easting	Northing	RL
R1	347.152	1065.724	50.651
R2	356.997	1064.240	50.594
R3	360.473	1063.891	50.574
R4	370.695	1062.275	50.514
R5	391.332	1062.731	50.494
R6	398.888	1069.190	50.596
R7	400.234	1072.305	50.630
R8	402.919	1083.617	50.748
R9	401.411	1075.147	50.661
R10	402.628	1081.083	50.721

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
R1 – R2	5.690	100.300	9.960	0.124	0.093	2.490	2.488	2.490	50.622
R3 – R4	5.833	101.700	10.354	0.132	0.099	2.588	2.587	2.588	50.544
R4 – R5	26.340	45.300	20.825	1.191	0.893	5.195	5.126	5.206	50.472
R5 – R6	52.188	11.300	10.293	1.152	0.860	2.551	2.419	2.573	50.544
R7 – R9	1.758	100.300	3.077	0.174	0.131	2.957	2.954	2.957	50.689

RETURN S

Point no	Easting	Northing	RL
S1	412.827	1082.427	50.761
S2	414.209	1072.452	50.619
S3	420.067	1063.208	50.416
S4	428.956	1058.992	50.333
S5	451.677	1053.806	50.370
S6	414.094	1073.799	50.637

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
S6 – S2	2.194	35.300	1.352	0.341	0.256	2.453	2.441	2.455	50.695
S2 – S3	52.830	12.300	11.341	1.284	0.959	2.810	2.662	2.835	50.520
S3 – S4	11.691	48.300	9.856	0.251	0.188	2.463	2.456	2.464	50.348
S4 – S5	13.343	100.300	23.358	0.679	0.509	5.836	5.816	5.839	50.320

RETURN T

Point no	Easting	Northing	RL
T1	346.153	1057.232	50.410
T2	349.429	1057.944	50.428
T3	375.192	1051.632	50.201
T4	389.268	1046.126	50.023
T5	395.536	1038.917	49.822
T6	396.230	1026.437	49.462
T7	392.448	1011.187	49.149

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
T1 – T2	36.870	5.300	3.411	0.272	0.204	0.849	0.827	0.853	50.428
T2 – T3	15.197	100.300	26.604	0.881	0.660	6.646	6.617	6.651	50.347
T4 – T5	55.256	10.300	9.933	1.174	0.877	2.459	2.317	2.483	49.934
T5 – T6	20.395	35.300	12.565	0.558	0.418	3.137	3.112	3.141	49.648
T6 – T7	13.820	65.300	15.750	0.474	0.356	3.935	3.921	3.938	49.264

RETURN U

Point no	Easting	Northing	RL
U1	398.430	1008.910	49.149
U2	401.857	1017.041	49.261
U3	412.273	1036.597	49.688
U4	425.472	1045.249	49.930
U5	449.720	1045.569	50.129
U6	450.772	1045.455	50.136

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
U1 – U2	4.036	125.300	8.825	0.078	0.058	2.206	2.206	2.206	49.199
U2 – U3	6.341	200.300	22.168	0.307	0.230	5.541	5.537	5.542	49.468
U3 – U4	51.087	18.300	16.317	1.789	1.336	4.046	3.845	4.079	49.838
U4 – U5	13.887	100.300	24.310	0.736	0.552	6.074	6.051	6.077	50.050

RETURN V

Point no	Easting	Northing	RL
V1	396.602	1051.132	50.153
V2	405.495	1062.128	50.438
V3	416.491	1053.234	50.149
V4	407.597	1042.239	49.864

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
V1 – V2	90.000	10.000	15.708	2.929	2.168	3.827	3.244	3.927	50.359
V2 – V3	90.000	10.000	15.708	2.929	2.168	3.827	3.244	3.927	50.355
V3 – V4	90.000	10.000	15.708	2.929	2.168	3.827	3.244	3.927	49.944
V4 – V1	90.000	10.000	15.708	2.929	2.168	3.827	3.244	3.927	49.946

RETURN W

Point no	Easting	Northing	RL
W1	406.537	1075.364	50.763
W2	407.107	1080.231	50.844
W3	407.635	1080.705	50.858
W4	408.28	1080.238	50.862
W5	410.330	1069.775	50.640
W6	409.967	1069.448	50.631
W7	406.531	1070.210	50.657
W8	405.626	1071.669	50.685
W9	409.735	1075.018	50.755

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
W2 – W3	75.426	0.600	0.790	0.140	0.104	0.205	0.180	0.209	50.849
W3 – W4	79.372	0.600	0.830	0.140	0.104	0.205	0.180	0.209	50.861
W5 – W6	108.987	0.300	0.571	0.126	0.092	0.137	0.107	0.143	50.634
W7 – W8	91.328	1.200	1.913	0.361	0.267	0.466	0.393	0.478	50.669

RETURN X

Point no	Easting	Northing	RL
X1	386.042	1055.926	50.313
X2	391.193	1056.738	50.328
X3	391.517	1056.362	50.317
X4	390.523	1052.650	50.215
X5	389.062	1051.799	50.193
X6	380.833	1053.940	50.264
X7	380.384	1054.550	50.281
X8	380.890	1055.113	50.297

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
X2 – X3	111.477	0.300	0.584	0.131	0.096	0.140	0.108	0.146	50.324
X4 – X5	89.601	1.200	1.877	0.349	0.258	0.457	0.388	0.469	50.196
X6 – X7	78.228	0.600	0.819	0.134	0.100	0.201	0.178	0.205	50.271
X7 – X8	78.228	0.600	0.819	0.134	0.100	0.201	0.178	0.205	50.291

RETURN Y

Point no	Easting	Northing	RL
Y1	427.593	1049.833	50.070
Y2	422.221	1048.942	50.004
Y3	421.877	1049.296	50.013
Y4	422.565	1052.804	50.110
Y5	423.983	1053.749	50.148
Y6	432.988	1051.904	50.169
Y7	433.467	1051.305	50.157
Y8	432.966	1050.724	50.138

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
Y2 – Y3	110.504	0.300	0.579	0.129	0.095	0.139	0.107	0.145	50.006
Y4 – Y5	90.492	1.200	1.895	0.355	0.263	0.462	0.391	0.474	50.134
Y6 – Y7	79.502	0.600	0.833	0.139	0.103	0.204	0.180	0.208	50.167
Y7 – Y8	79.502	0.600	0.833	0.139	0.103	0.204	0.180	0.208	50.147

RETURN Z

Point no	Easting	Northing	RL
Z1	404.154	1030.891	49.576
Z2	402.567	1027.161	49.488
Z3	401.918	1026.804	49.484
Z4	401.417	1027.350	49.499
Z5	400.649	1037.278	49.757
Z6	401.045	1037.585	49.761
Z7	405.026	1036.225	49.711
Z8	405.742	1034.620	49.667

Curve no	l	Radius	Arc	A	B	X	Y	I	Mid point RL
Z2 – Z3	76.261	0.600	0.799	0.128	0.095	0.196	0.174	0.200	49.484
Z3 – Z4	76.261	0.600	0.799	0.128	0.095	0.196	0.174	0.200	49.489
Z5 – Z6	113.282	0.300	0.593	0.135	0.099	0.142	0.108	0.148	49.761
Z7 – Z8	94.196	1.200	1.973	0.383	0.283	0.479	0.400	0.493	49.689

RETURN AA

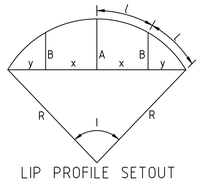
	Point no	Easting	Northing	RL
AA	1	362.530	766.259	47.099
AA	2	354.108	776.636	47.264
AA	3	350.427	777.018	47.150
AA	4	348.935	777.173	47.010
AA	5	348.388	777.230	47.000

	Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
AA	1 2	–9.450	13.364	2.768	2.158	47.177

RETURN BB

	Point no	Easting	Northing	RL
BB	1	365.177	791.722	47.227
BB	2	354.801	783.300	47.326
BB	3	351.120	783.682	47.170
BB	4	349.628	783.837	47.020
BB	5	349.081	783.894	46.997

	Curve no	Radius	Chord	Mid Ord	Qtr Ord	Mid Ord RL
BB	1 2	9.450	13.364	2.768	2.158	47.252



LIP PROFILE SETOUT

AS CONSTRUCTED

COUNCIL REF. No. 2315/17 - 6215/12

AMENDMENTS			
D	01-10-2019	LIPS R,S & W SET OUT AMENDED	
C	18-07-2018	LIP AA & BB SET OUT AMENDED	
B	07-05-2018	MINKIN STREET INTERSECTION	
A	23-04-2018	ISSUED FOR CONSTRUCTION	
VER.	DATE	REMARKS	

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

RIVERDALE VILLAGE STAGE 9

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/9

SCALE NOT TO SCALE | DATUM AHD | DATE NOV' 17 | SHEET 10 OF 25 | D

DESIGN CENTRELINE SETOUT:

RIVERSTONE PROMENADE

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0. 000	406. 303	1053. 532	185°56'10. 08"	
Tangent-Curve	1. 205	406. 178	1052. 329	185°56'10. 08"	150. 000
Curve-Tangent	42. 779	396. 239	1012. 098	201°48'58. 53"	150. 000
Tangent-Curve	42. 779	396. 239	1012. 098	201°48'58. 53"	-128. 500
Curve-Tangent	78. 394	387. 725	977. 633	185°56'10. 08"	-128. 500
Tangent-Curve	312. 764	363. 486	744. 519	185°56'10. 08"	-90. 000
Curve-Tangent	335. 440	363. 992	721. 908	171°29'59. 88"	-90. 000
Straight	400. 000	373. 535	658. 058	171°29'59. 88"	
Straight	500. 000	388. 316	559. 156	171°29'59. 88"	
Straight	600. 000	403. 097	460. 255	171°29'59. 88"	
Intersection Point	630. 208	407. 562	430. 379	171°29'59. 88"	

IP 1

coordinate = 406. 3026 1053. 5317
chainage = -0. 0042

IP 2

coordinate = 404. 0140 1031. 5205
centre = 256. 9819 1067. 8424
radius = 150. 0000
length = 41. 5741
intersect angle = 15°52'48"

start tangent

coordinate = 406. 1776 1052. 3294
length = 20. 9211
chainage = 1. 2045
bearing = 185°56'10"

end tangent

coordinate = 396. 2390 1012. 0977
length = 20. 9211
chainage = 42. 7786
bearing = 201°48'59"

IP 3

coordinate = 389. 5785 995. 4589
centre = 515. 5359 964. 3431
radius = -128. 5000
length = 35. 6151
intersect angle = 15°52'48"

start tangent

coordinate = 396. 2390 1012. 0977
length = 17. 9224
chainage = 42. 7786
bearing = 201°48'59"

end tangent

coordinate = 387. 7249 977. 6325
length = 17. 9224
chainage = 78. 3937
bearing = 185°56'10"

IP 4

coordinate = 362. 3076 733. 1817
centre = 453. 0038 735. 2113
radius = -90. 0000
length = 22. 6763
intersect angle = 14°26'10"

start tangent

coordinate = 363. 4864 744. 5191
length = 11. 3985
chainage = 312. 7639
bearing = 185°56'10"

end tangent

coordinate = 363. 9924 721. 9084
length = 11. 3985
chainage = 335. 4402
bearing = 171°29'60"

IP 5

coordinate = 407. 5619 430. 3788
chainage = 630. 2075

ORTIZ AVENUE

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0. 000	594. 181	943. 297	275°56'09. 87"	
Intersection Point	208. 901	386. 401	964. 901	275°56'09. 87"	

IP 1

coordinate = 594. 1815 943. 2966
chainage = 0. 0000

IP 2

coordinate = 386. 4011 964. 9009
chainage = 208. 9005

TEMPLE STREET

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0. 000	585. 472	867. 793	275°56'09. 87"	
Intersection Point	208. 046	378. 541	889. 308	275°56'09. 87"	

IP 1

coordinate = 585. 4719 867. 7925
chainage = 0. 0000

IP 2

coordinate = 378. 5412 889. 3084
chainage = 208. 0462

PALLADINO WAY

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0. 000	576. 625	791. 096	6°34'48. 47"	
Tangent-Curve	218. 752	601. 692	1008. 407	6°34'48. 47"	-10. 000
Curve-Tangent	234. 530	592. 835	1019. 495	276°10'49. 95"	-10. 000
Tangent-Curve	311. 119	516. 690	1027. 741	276°10'49. 95"	-61. 200
Curve-Tangent	318. 764	509. 058	1028. 087	269°01'24. 87"	-61. 200
Tangent-Curve	331. 901	495. 923	1027. 864	269°01'24. 87"	61. 200
Curve-Tangent	339. 546	488. 291	1028. 210	276°10'50. 16"	61. 200
Tangent-Curve	370. 134	457. 881	1031. 504	276°10'50. 16"	-10. 000
Curve-Tangent	385. 884	446. 858	1022. 596	185°56'09. 72"	-10. 000
Intersection Point	449. 522	440. 277	959. 299	185°56'09. 72"	

IP 4

coordinate = 492. 0962 1027. 7983
centre = 494. 8801 1089. 0547
radius = 61. 2000
length = 7. 6447
intersect angle = 7°09'25"

start tangent

coordinate = 495. 9230 1027. 8636
length = 3. 8273
chainage = 331. 9011
bearing = 269°01'25"

end tangent

coordinate = 488. 2911 1028. 2104
length = 3. 8273
chainage = 339. 5458
bearing = 276°10'50"

IP 5

coordinate = 447. 8967 1032. 5848
centre = 456. 8044 1021. 5617
radius = -10. 0000
length = 15. 7506
intersect angle = 90°14'40"

start tangent

coordinate = 457. 8811 1031. 5036
length = 10. 0428
chainage = 370. 1336
bearing = 276°10'50"

end tangent

coordinate = 446. 8581 1022. 5959
length = 10. 0428
chainage = 385. 8843
bearing = 185°56'10"

IP 6

coordinate = 440. 2767 959. 2991
chainage = 449. 5223

MINKIN STREET

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0. 000	367. 036	778. 659	275°56'10. 08"	
Tangent-Curve	40. 850	326. 406	782. 884	275°56'10. 08"	-38. 150
Curve-Tangent	57. 252	310. 948	787. 982	300°34'12. 34"	-38. 150
Straight	100. 000	274. 142	809. 723	300°34'12. 34"	
Straight	200. 000	188. 041	860. 582	300°34'12. 34"	
Intersection Point	210. 721	178. 810	866. 035	300°34'12. 34"	

IP 1

coordinate = 367. 0362 778. 6593
chainage = 0. 0000

IP 2

coordinate = 318. 1204 783. 7455
centre = 330. 3511 820. 8294
radius = 38. 1500
length = 16. 4024
intersect angle = 24°38'02"

start tangent

coordinate = 326. 4056 782. 8840
length = 8. 3299
chainage = 40. 8496
bearing = 275°56'10"

end tangent

coordinate = 310. 9483 787. 9820
length = 8. 3299
chainage = 57. 2520
bearing = 300°34'12"

IP 3

coordinate = 178. 8101 866. 0352
chainage = 210. 7212

LEAKES ROAD

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0. 000	172. 751	1075. 411	89°38'58. 95"	
Tangent-Curve	0. 000	172. 751	1075. 411	89°38'58. 95"	561. 888
Curve-Tangent	39. 435	212. 161	1074. 269	93°40'15. 29"	561. 888
Tangent-Curve	39. 435	212. 161	1074. 269	93°40'15. 29"	1000. 000
Curve-Tangent	81. 117	253. 690	1070. 734	96°03'32. 77"	1000. 000
Tangent-Curve	175. 016	347. 064	1060. 823	96°03'32. 77"	900. 000
Curve-Tangent	193. 478	365. 402	1058. 686	97°14'03. 89"	900. 000
Tangent-Curve	226. 468	398. 130	1054. 531	97°14'03. 89"	-900. 000
Curve-Tangent	242. 936	414. 485	1052. 607	96°11'09. 70"	-900. 000
Intersection Point	442. 072	612. 461	1031. 149	96°11'09. 70"	
Intersection Point	482. 620	652. 748	1026. 557	96°30'06. 09"	

IP 1

coordinate = 172. 7510 1075. 4110
chainage = 0. 0000

IP 2

coordinate = 192. 4763 1075. 5316
centre = 176. 1862 513. 5336
radius = 561. 8879
length = 39. 4351
intersect angle = 4°01'16"

start tangent

coordinate = 172. 7510 1075. 4110
length = 19. 7257
chainage = 0. 0000
bearing = 89°38'59"

end tangent

coordinate = 212. 1615 1074. 2686
length = 19. 7257
chainage = 39. 4351
bearing = 93°40'15"

IP 3

coordinate = 232. 9626 1072. 9341
centre = 148. 1358 76. 3204
radius = 1000. 0000
length = 41. 6817
intersect angle = 2°23'17"

start tangent

coordinate = 212. 1615 1074. 2686
length = 20. 8439
chainage = 39. 4351
bearing = 93°40'15"

end tangent

coordinate = 253. 6900 1070. 7339
length = 20. 8439
chainage = 81. 1169
bearing = 96°03'33"

IP 4

coordinate = 356. 2441 1059. 8481
centre = 252. 0656 165. 8503
radius = 900. 0000
length = 18. 4618
intersect angle = 1°10'31"

start tangent

coordinate = 347. 0645 1060. 8225
length = 9. 2312
chainage = 175. 0159
bearing = 96°03'33"

end tangent

coordinate = 365. 4018 1058. 6856
length = 9. 2312
chainage = 193. 4776
bearing = 97°14'04"

IP 5

coordinate = 406. 2987 1053. 4942
centre = 511. 4662 1947. 3664
radius = -900. 0000
length = 16. 4680
intersect angle = 1°02'54"

start tangent

coordinate = 398. 1300 1054. 5311
length = 8. 2342
chainage = 226. 4685
bearing = 97°14'04"

end tangent

coordinate = 414. 4850 1052. 6069
length = 8. 2342
chainage = 242. 9365
bearing = 96°11'10"

IP 6

coordinate = 612. 4611 1031. 1487
chainage = 442. 0720
intersect angle = 0°18'56"

IP 7

coordinate = 652. 7481 1026. 5573
chainage = 482. 6198

AS CONSTRUCTED

COUNCIL REF. No. 2315/17 - 6215/12

AMENDMENTS			
B	07-05-2018	MINKIN STREET INTERSECTION	
A	23-04-2018	ISSUED FOR CONSTRUCTION	
VER.	DATE	REMARKS	

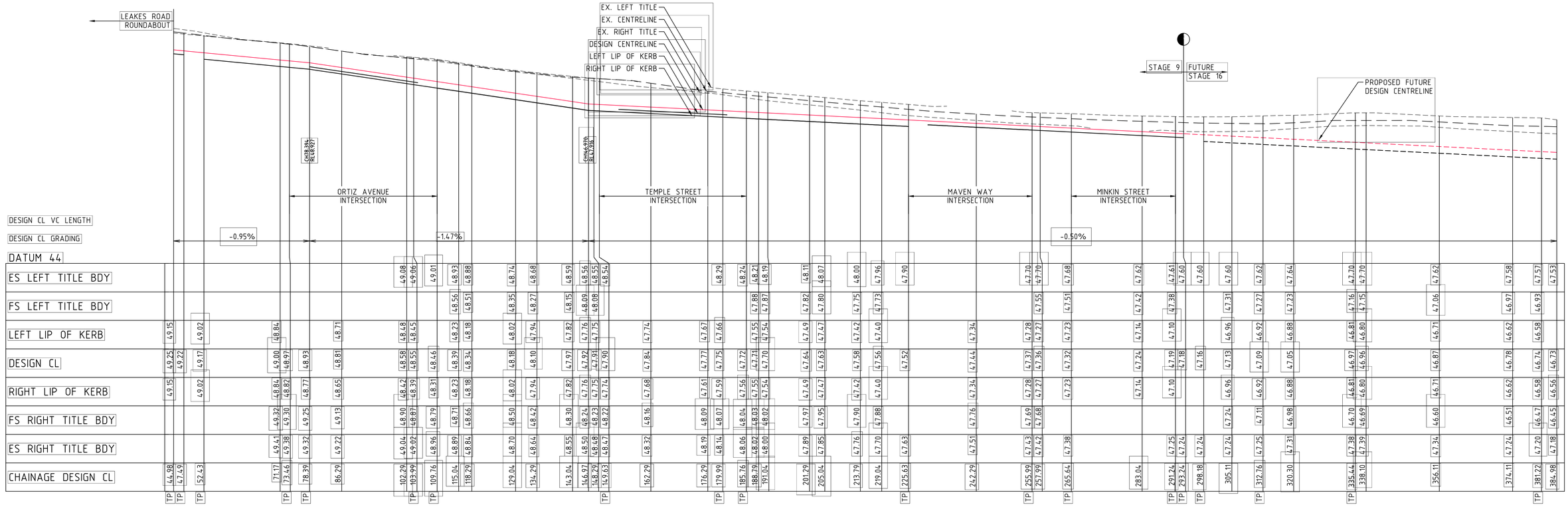
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

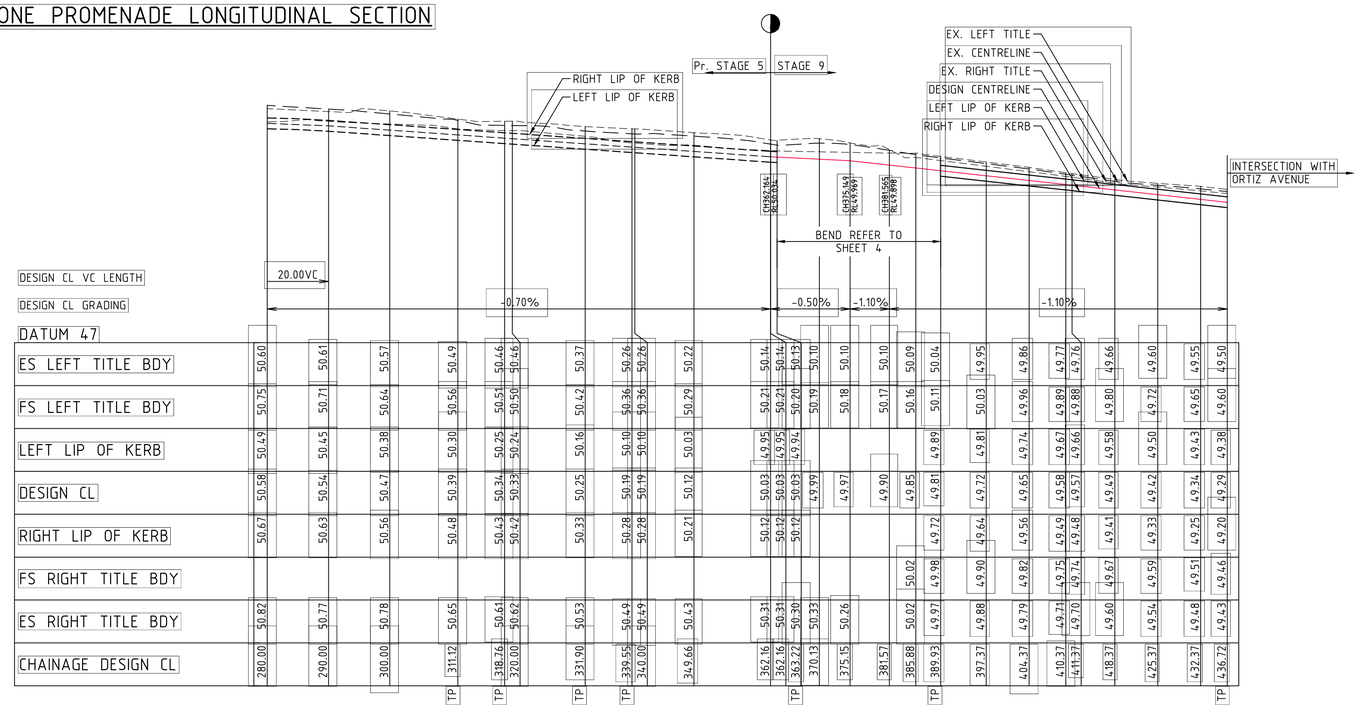
RIVERDALE VILLAGE
STAGE 9

SCALE NOT TO SCALE DATUM AHD DATE NOV' 17

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9
SHEET 11 OF 25 B



RIVERSTONE PROMENADE LONGITUDINAL SECTION



PALLADINO WAY LONGITUDINAL SECTION

MAVEN WAY

	Chainage	Easting	Northing	Bearing	Radius
Intersection Point	0.000	646.805	783.799	275°56'10.26"	
Tangent-Curve	105.487	541.883	794.709	275°56'10.26"	140.150
Curve-Tangent	118.619	528.904	796.676	281°18'16.57"	140.150
Tangent-Curve	118.619	528.904	796.676	281°18'16.57"	-133.450
Curve-Tangent	131.123	516.546	798.550	275°56'09.90"	-133.450
Intersection Point	280.172	368.297	813.964	275°56'09.90"	

IP 1

coordinate = 646.8046 783.7990
chainage = 0.0000

IP 2

coordinate = 535.3474 795.3881
centre = 556.3772 934.1071
radius = 140.1500
length = 13.1316
intersect angle = 5°22'06"

start tangent

coordinate = 541.8828 794.7086
length = 6.5706
chainage = 105.4874
bearing = 275°56'10"

end tangent

coordinate = 528.9043 796.6761
length = 6.5706
chainage = 118.6190
bearing = 281°18'17"

IP 3

coordinate = 522.7689 797.9026
centre = 502.7446 665.8152
radius = -133.4500
length = 12.5040
intersect angle = 5°22'07"

start tangent

coordinate = 528.9042 796.6762
length = 6.2566
chainage = 118.6192
bearing = 281°18'17"

end tangent

coordinate = 516.5459 798.5497
length = 6.2566
chainage = 131.1232
bearing = 275°56'10"

IP 4

coordinate = 368.2967 813.9641
chainage = 280.1717

AS CONSTRUCTED

COUNCIL REF. No. 2315/17 - 6215/12

ALL LENGTHS ARE IN METRES

A1

V 1:50
H 1:500

VER.	DATE	REMARKS
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

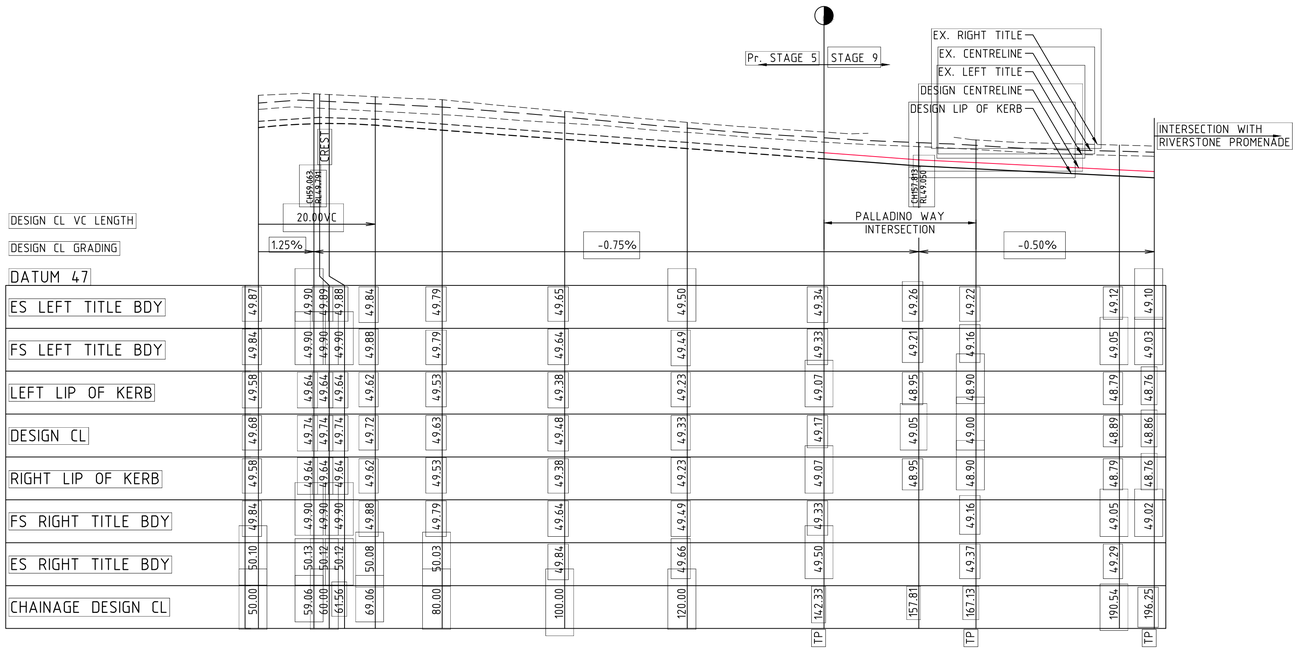
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East 3123
Telephone 8823 2300
Fax no. 8823 2310

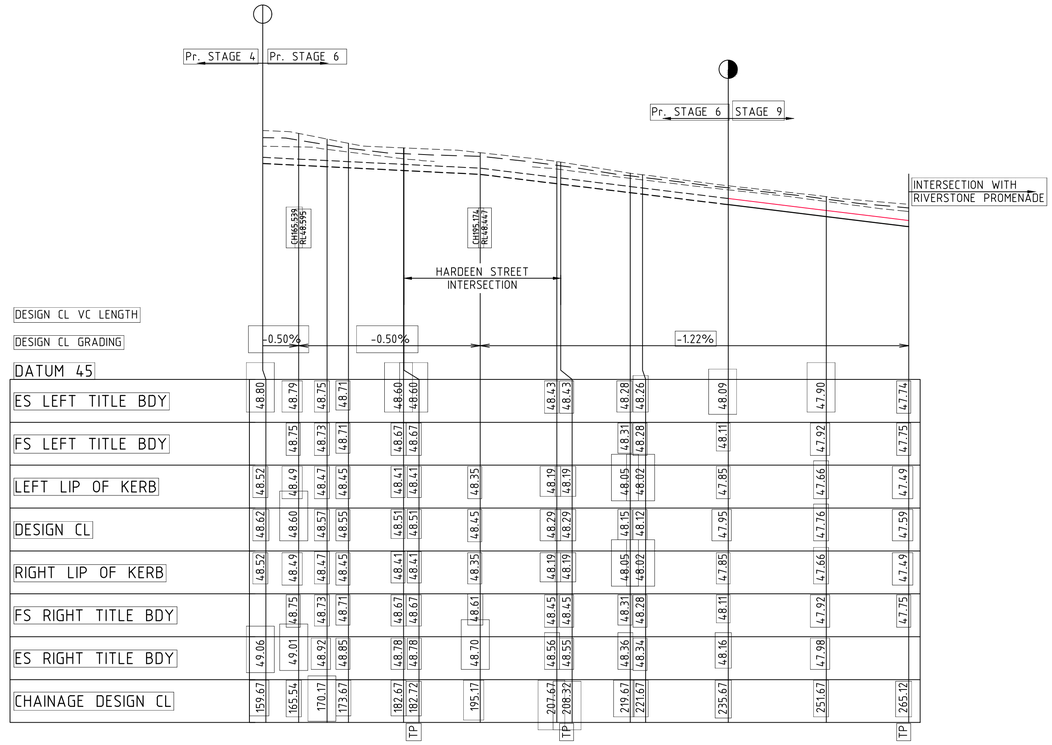
RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/9

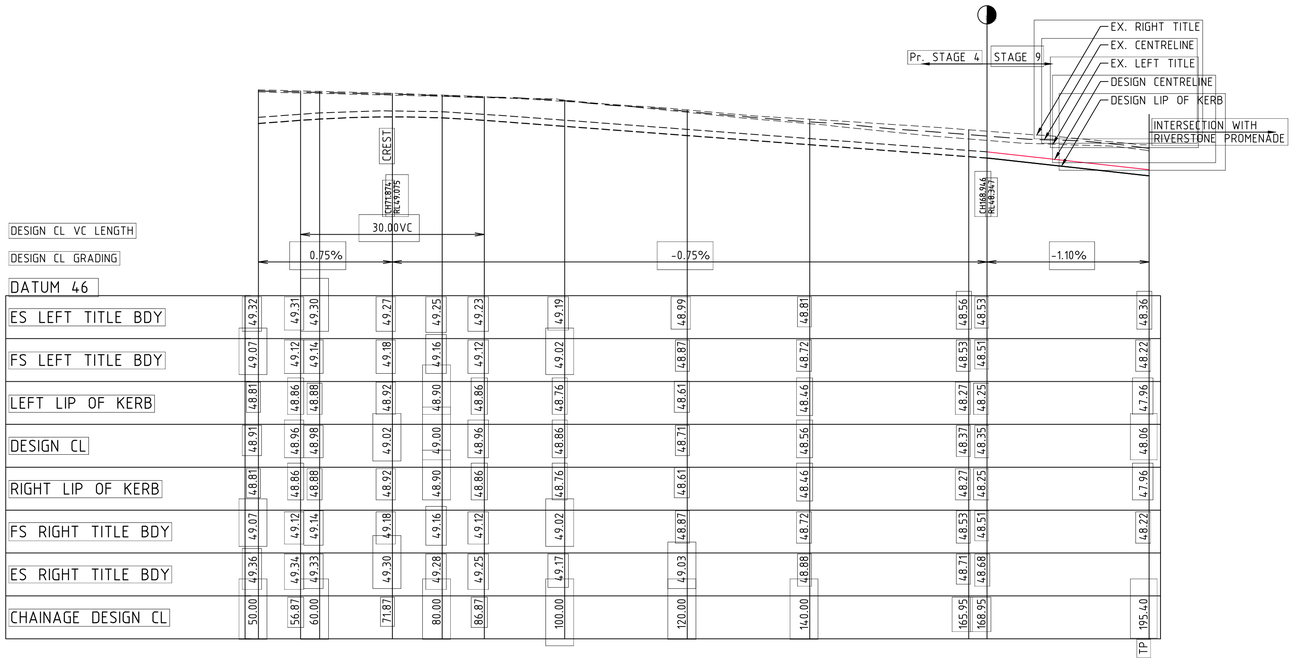
SCALE: AS SHOWN
DATUM: AHD
DATE: NOV' 17
SHEET: 12 OF 25
B



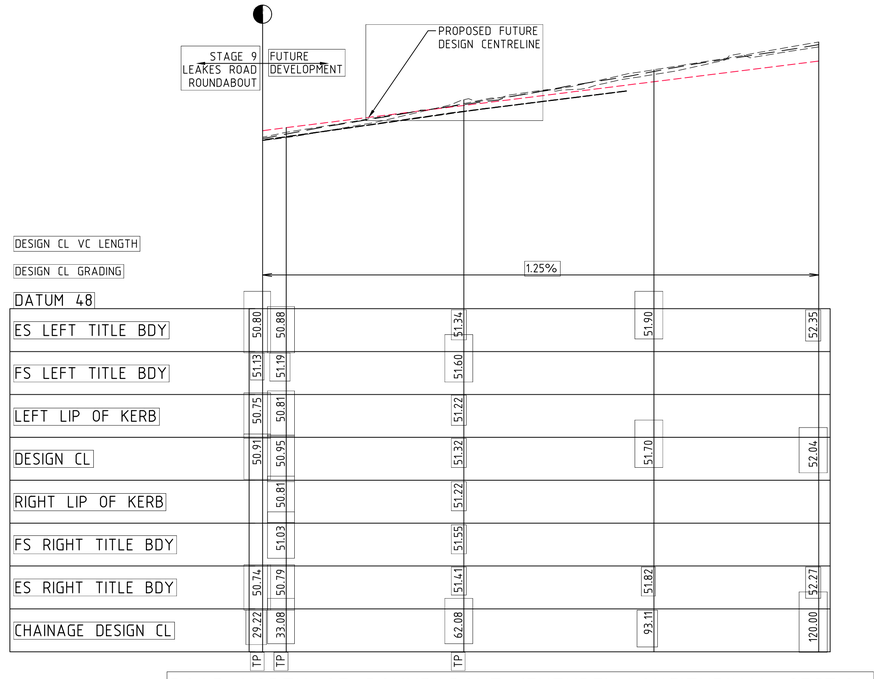
ORTIZ AVENUE LONGITUDINAL SECTION



MAVEN WAY LONGITUDINAL SECTION



TEMPLE STREET LONGITUDINAL SECTION



ROAD NORTH OF ROUNDABOUT (FUTURE) LONGITUDINAL SECTION

AS CONSTRUCTED

COUNCIL REF. No. 2315/17 - 6215/12

ALL LENGTHS ARE IN METRES

V 1:50

H 1:500

A1

VER.	DATE	REMARKS
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers

1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF.	234-G-2
SURVEY	BPD
DESIGN	L.G.
DRAWN	L.G.
CHECKED	

RIVERDALE VILLAGE
STAGE 9

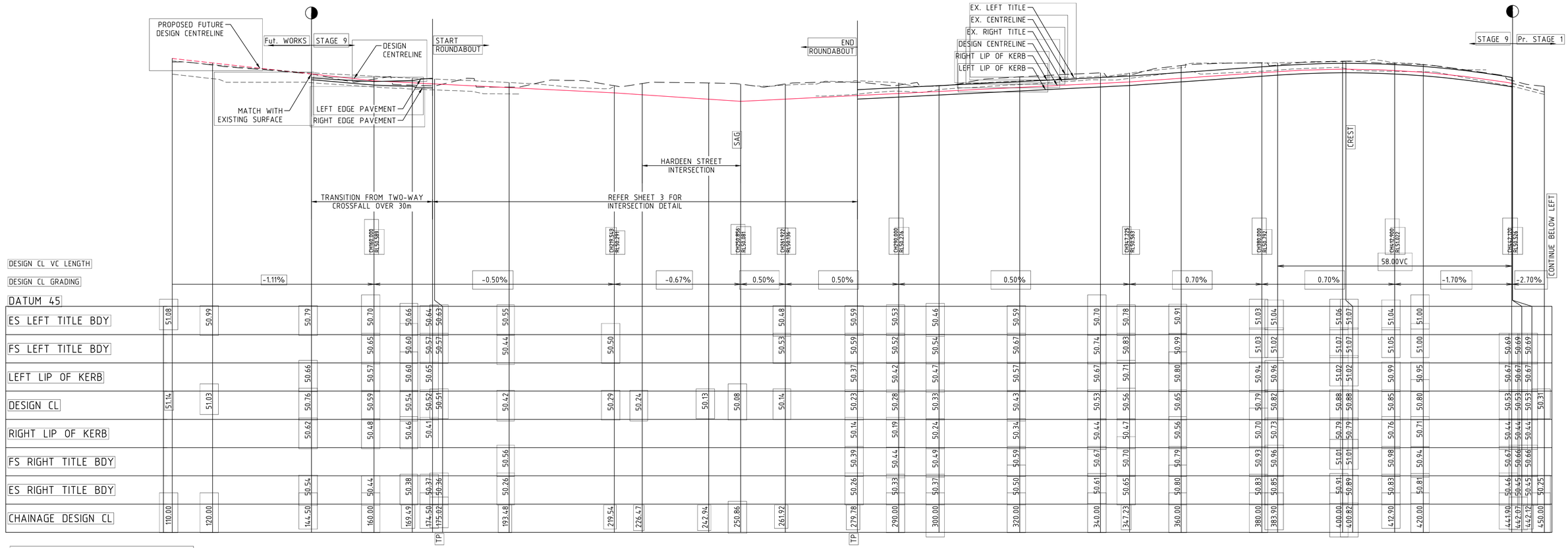
MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/9

SCALE: AS SHOWN | DATUM: AHD | DATE: NOV' 17

SHEET 13 OF 25 | A

ROAD LS1, 23/04/2018 6:53:05 PM, 1:1



COUNCIL REF. No. 2315/17 - 6215/12

ALL LENGTHS ARE IN METRES

A1 V 1:50 H 1:500

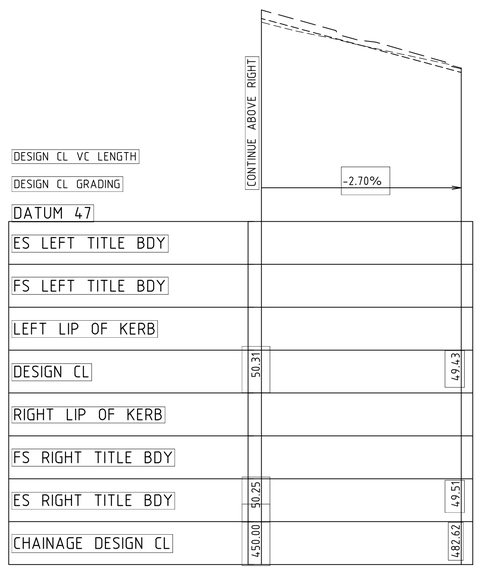
LEAKES ROAD LONGITUDINAL SECTION

ROCKWORK FOR SCOUR PROTECTION
PIPE CONNECTIONS TO RETARDING BASIN

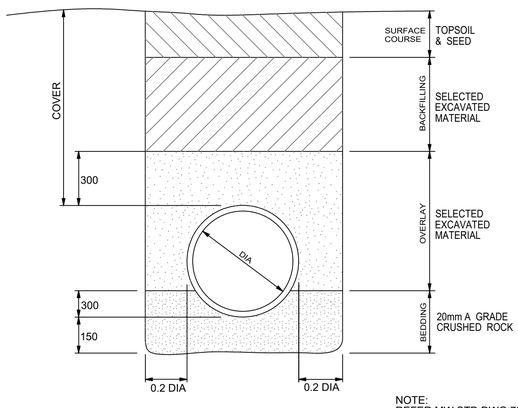
Equivalent Spherical Diameter (+)	Percentage (by weight) of Rock of smaller size	Sizing (mm)
1.5 - 2.0 (+) D50	100	375 - 500
D50 (++)	50	250
0.3 - 0.4 (+) D50	25	75 - 100
0.1 - 0.2 (+) D50	10	25 - 50

(+) The diameter of a sphere with an equivalent volume to the individual rock.
(++) D50 is the median rock diameter of the rock mix.

NB. Minimum Thickness of Rockwork = 600mm.



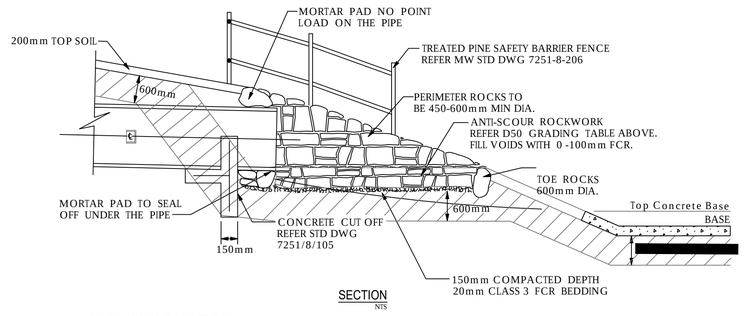
LEAKES ROAD LONGITUDINAL SECTION

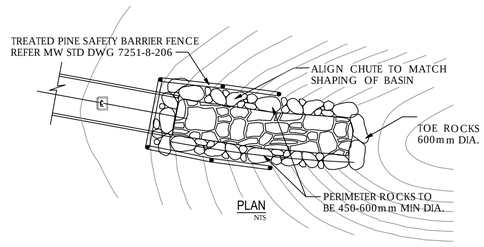


NOTE:
REFER MW STD DWG 725/08/419 FOR COMPACTION DETAILS.

PIPE EMBEDDMENT AND BACK FILLING DETAIL TYPE R1 (OUFALL TO DRAINAGE RESERVE)

NTS





ROCK SOURCE AND TYPE

1. ROCK SHALL BE SOURCED FROM AN APPROPRIATE QUARRY.
2. ROCK SHALL BE:
   TOUGH AND DURABLE WITH A CRUSHING STRENGTH OF AT LEAST 25MPa.
   FREE OF DEFINED CLEAVAGE PLANES WITH SHAPE PREDOMINANTLY ANGULAR WITH ROUNDS OR LONG SPLINTERS MINIMISED.
   NOT ADVERSELY AFFECTED BY REPEATED WETTING AND DRYING.

ROCK END WALL - TYPICAL DETAILS PIPE CONNECTIONS TO SEDIMENTATION PONDS (OUTFALL TO DRAINAGE RESERVE)

NTS

AS CONSTRUCTED

VER.	DATE	REMARKS
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

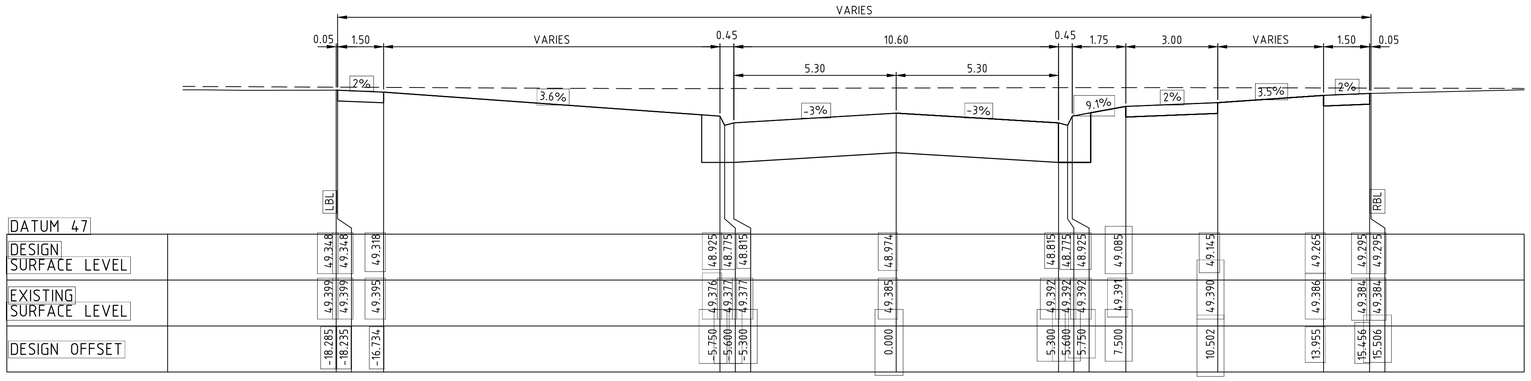
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 9

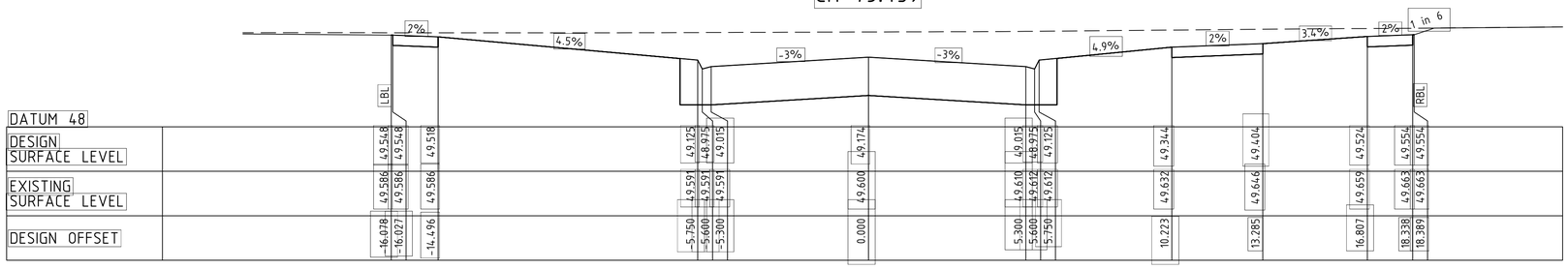
MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9

SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 14 OF 25 | A

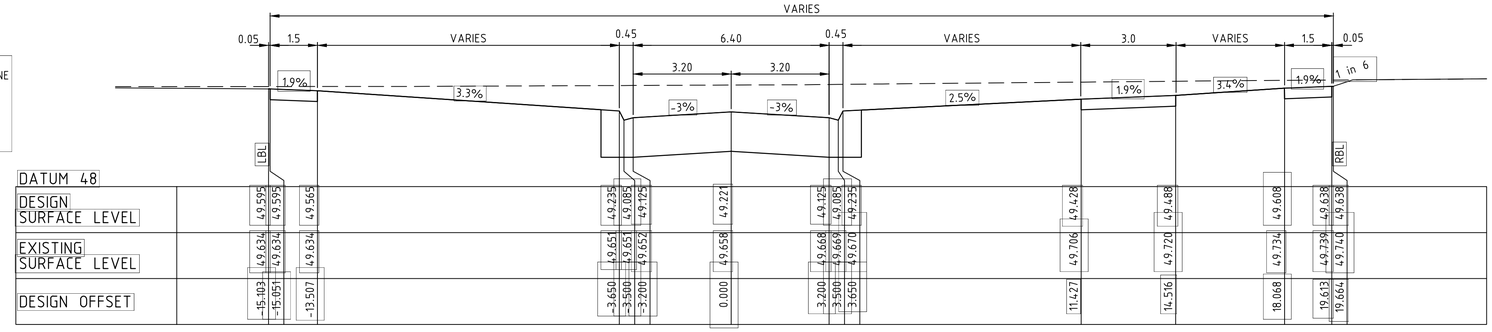
ROAD LS1, 23/04/2018 6:54:36 PM, 1:1



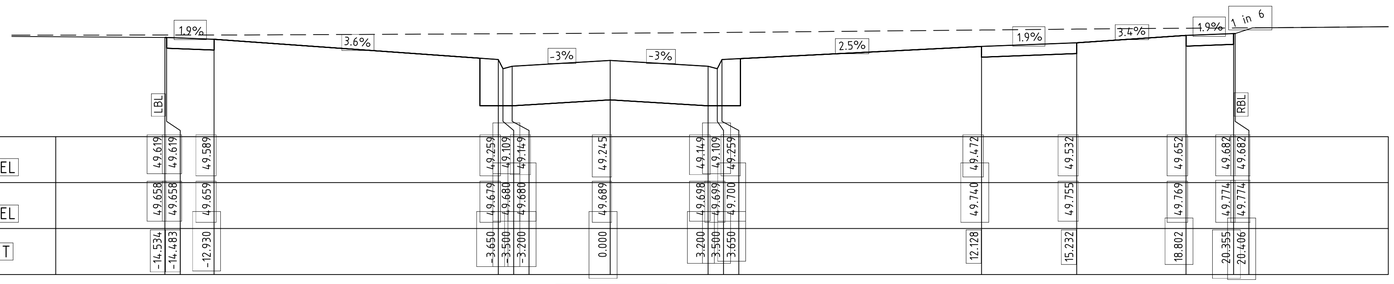
CH 73.459



CH 52.426

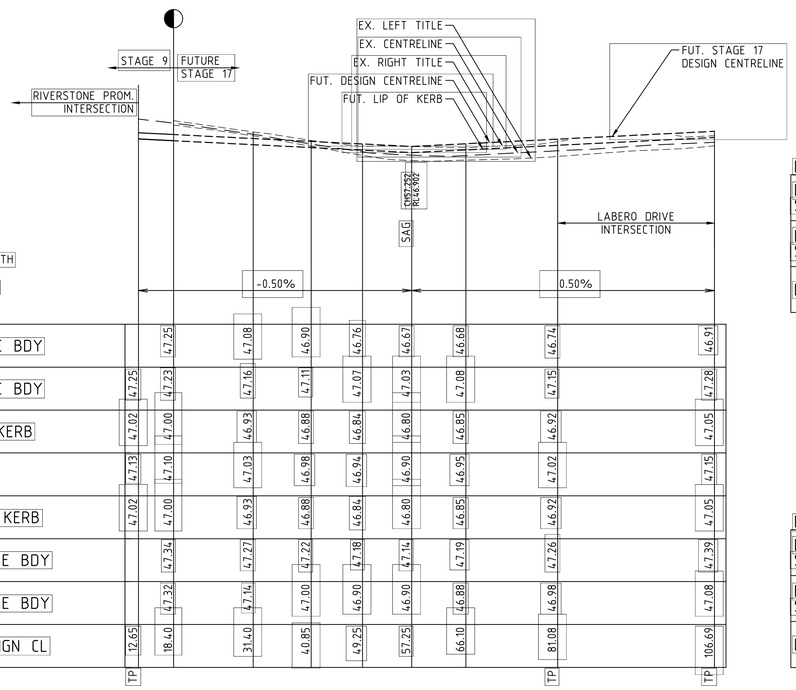


CH 47.491



CH 44.979

RIVERSTONE PROMENADE CROSS SECTIONS - 1



MINKIN STREET LONGITUDINAL SECTION

AS CONSTRUCTED

COUNCIL REF. No. 2315/17 - 6215/12

1 0 1 2 3 4 5 V 1:50
10 0 10 20 30 40 50 H 1:500
ALL LENGTHS ARE IN METRES A1

2 0 2 4 6 8 10 V 1:50
H 1:100
ALL LENGTHS ARE IN METRES A1

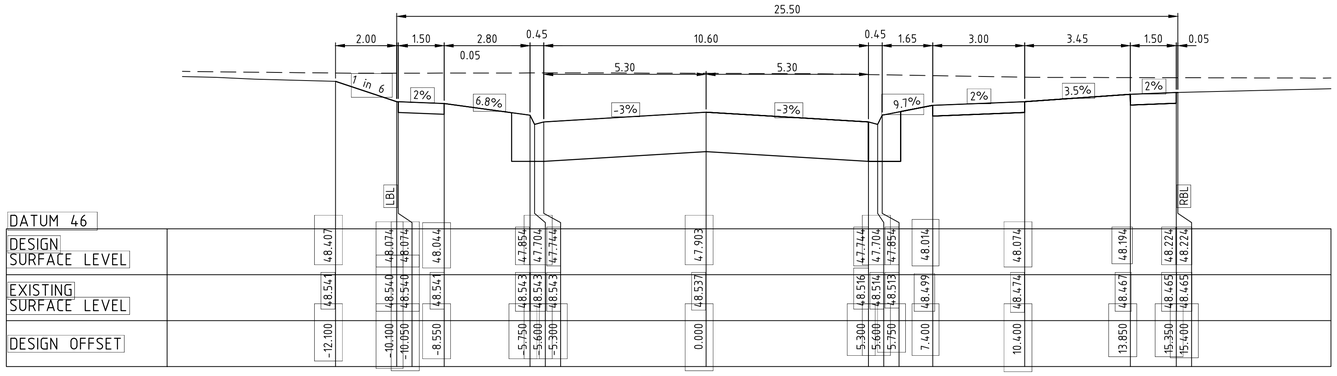
AMENDMENTS			
B	07-05-2018	MINKIN STREET INTERSECTION	
A	23-04-2018	ISSUED FOR CONSTRUCTION	
VER.	DATE	REMARKS	

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

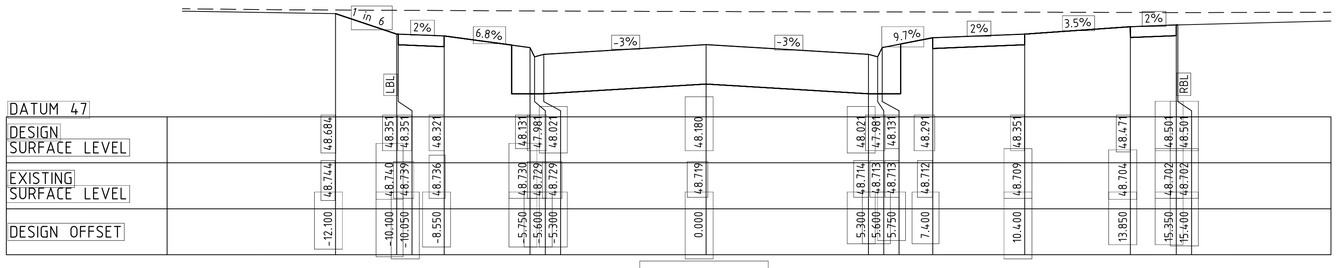
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

RIVERDALE VILLAGE
STAGE 9

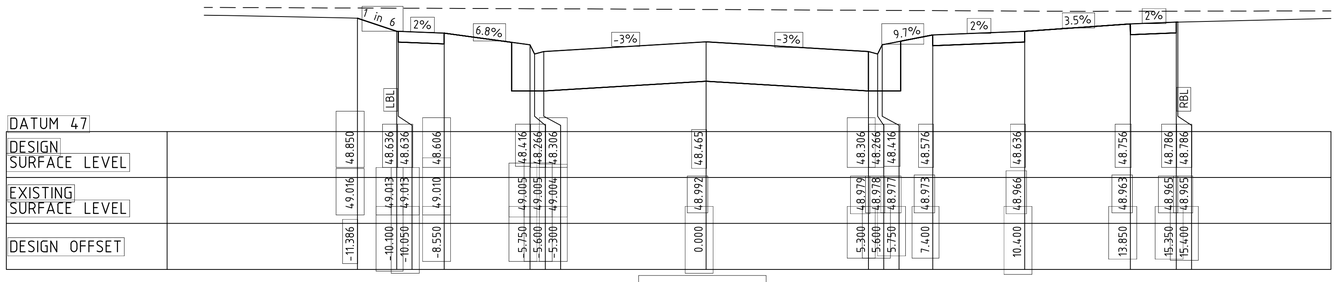
MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9
SCALE AS SHOWN DATUM AHD DATE NOV' 17
SHEET 15 OF 25 B



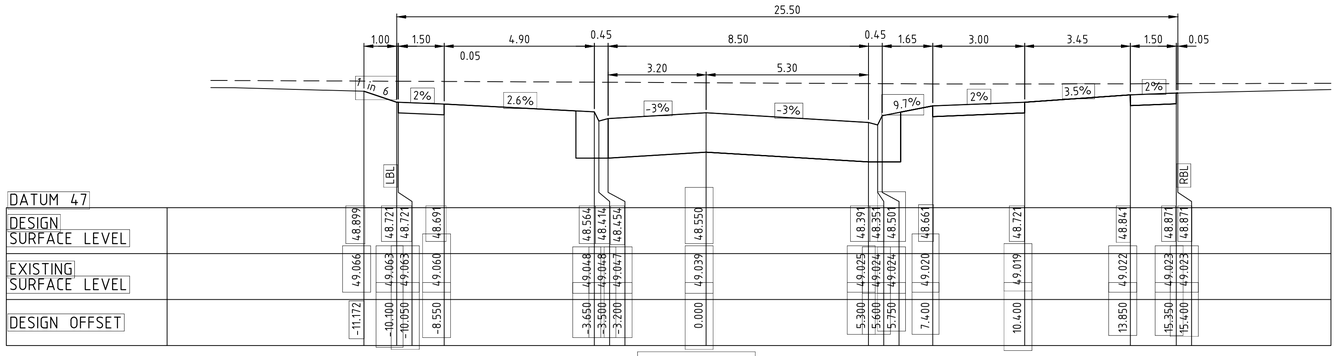
CH 149.632



CH 129.044



CH 109.756



CH 103.994

RIVERSTONE PROMENADE CROSS SECTIONS - 2

AS CONSTRUCTED

COUNCIL REF. No. 2315/17 - 6215/12

V 1:50
H 1:100
ALL LENGTHS ARE IN METRES
A1

VER.	DATE	REMARKS
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers

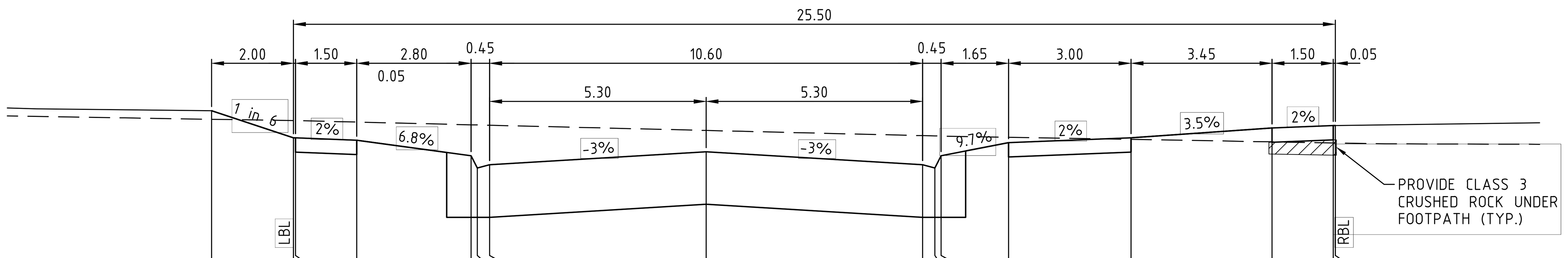
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9
SCALE AS SHOWN | DATUM AHD | DATE NOV' 17
SHEET 16 OF 25 | A

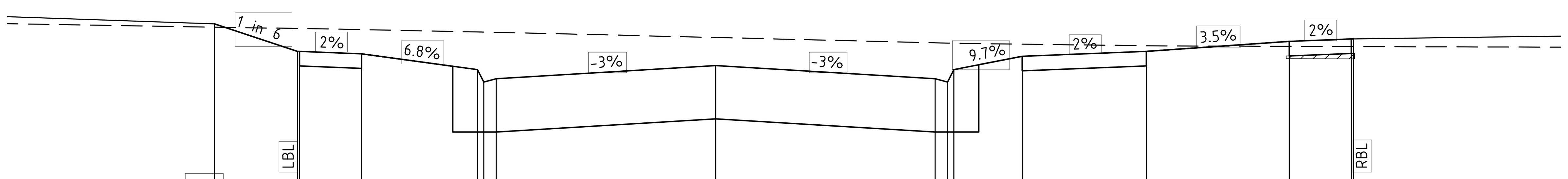
ROAD XS, 23/04/2018 6:56:29 PM, 1:1



DATUM 46

DESIGN SURFACE LEVEL	48.027	47.694	47.694	47.664	47.474	47.324	47.364	47.523	47.364	47.324	47.474	47.634	47.694	47.814	47.844	47.844
EXISTING SURFACE LEVEL	47.921	47.905	47.904	47.887	47.853	47.852	47.848	47.784	47.720	47.717	47.715	47.700	47.674	47.644	47.631	47.631
DESIGN OFFSET	-12.100	-10.100	-10.050	-8.550	-5.750	-5.600	-5.300	0.000	5.300	5.600	5.750	7.400	10.400	13.850	15.350	15.400

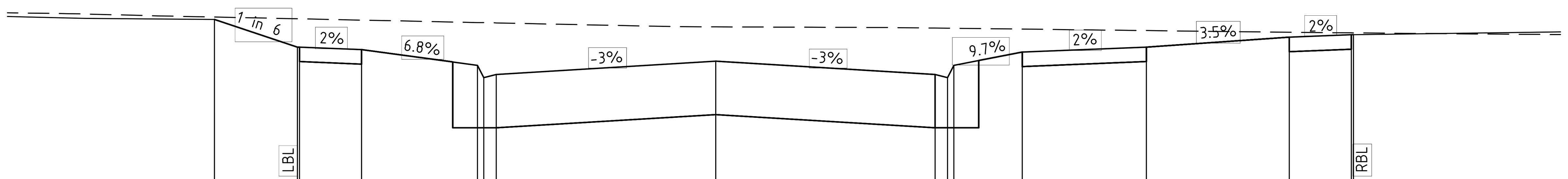
CH 225.632



DATUM 46

DESIGN SURFACE LEVEL	48.130	47.797	47.797	47.767	47.577	47.427	47.467	47.626	47.467	47.427	47.577	47.737	47.797	47.917	47.947	47.947
EXISTING SURFACE LEVEL	48.089	48.073	48.073	48.060	48.031	48.029	48.026	47.964	47.900	47.897	47.895	47.883	47.865	47.857	47.855	47.855
DESIGN OFFSET	-12.100	-10.100	-10.050	-8.550	-5.750	-5.600	-5.300	0.000	5.300	5.600	5.750	7.400	10.400	13.850	15.350	15.400

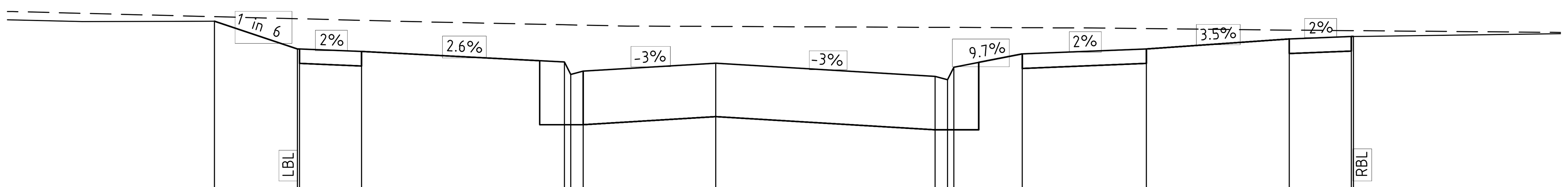
CH 205.044



DATUM 46

DESIGN SURFACE LEVEL	48.226	47.893	47.893	47.863	47.673	47.523	47.563	47.722	47.563	47.523	47.673	47.833	47.893	48.013	48.043	48.043
EXISTING SURFACE LEVEL	48.256	48.235	48.235	48.219	48.190	48.188	48.185	48.138	48.123	48.121	48.120	48.111	48.093	48.072	48.065	48.065
DESIGN OFFSET	-12.100	-10.100	-10.050	-8.550	-5.750	-5.600	-5.300	0.000	5.300	5.600	5.750	7.400	10.400	13.850	15.350	15.400

CH 185.756

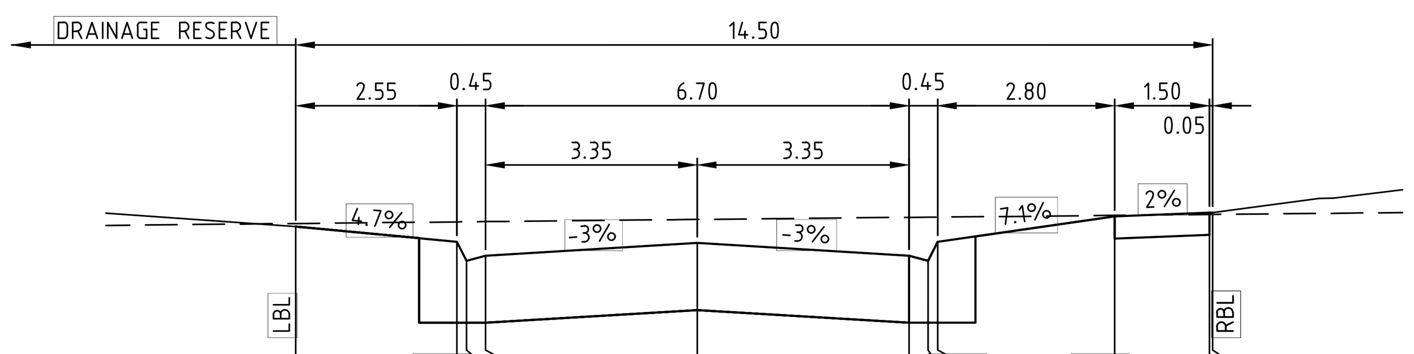


DATUM 46

DESIGN SURFACE LEVEL	48.255	47.922	47.922	47.892	47.765	47.615	47.655	47.751	47.592	47.552	47.702	47.862	47.922	48.042	48.072	48.072
EXISTING SURFACE LEVEL	48.311	48.286	48.285	48.266	48.213	48.211	48.208	48.193	48.182	48.181	48.181	48.178	48.167	48.149	48.142	48.142
DESIGN OFFSET	-12.100	-10.100	-10.050	-8.550	-3.650	-3.500	-3.200	0.000	5.300	5.600	5.750	7.400	10.400	13.850	15.350	15.400

CH 179.994

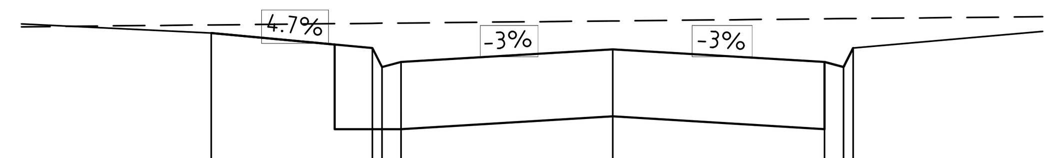
RIVERSTONE PROMENADE CROSS SECTIONS - 3



DATUM 46

DESIGN SURFACE LEVEL	47.226	47.106	46.956	46.996	47.096	46.996	46.956	47.106	47.306	47.336	47.336
EXISTING SURFACE LEVEL	47.250	47.263	47.264	47.265	47.282	47.299	47.300	47.300	47.314	47.322	47.322
DESIGN OFFSET	-6.350	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150

CH 18.400



DATUM 46

DESIGN SURFACE LEVEL	47.255	47.135	46.985	47.025	47.125	47.025	46.985	47.135
EXISTING SURFACE LEVEL	47.318	47.331	47.331	47.333	47.350	47.366	47.368	47.368
DESIGN OFFSET	-6.350	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800

CH 12.650

MINKIN STREET CROSS SECTIONS

AS CONSTRUCTED

COUNCIL REF. No. 2315/17 - 6215/12

V 1:50
H 1:100
ALL LENGTHS ARE IN METRES
A1

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

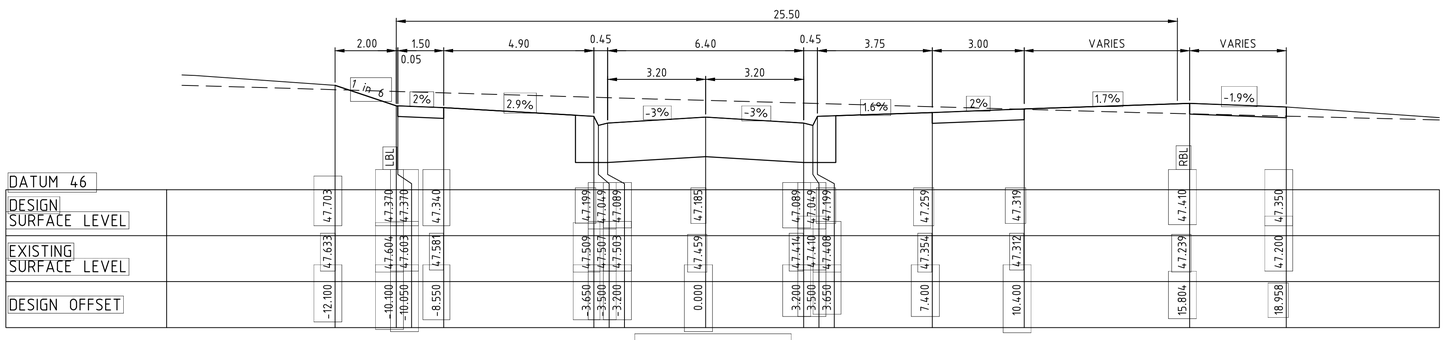
AMENDMENTS		
VER.	DATE	REMARKS
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

MELWAY REF.	234-G-2
SURVEY	BPD
DESIGN	L.G.
DRAWN	L.G.
CHECKED	

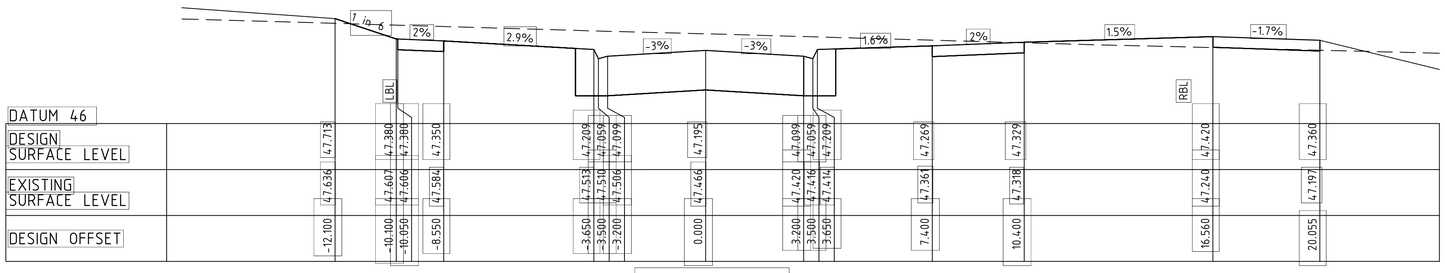
RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/9

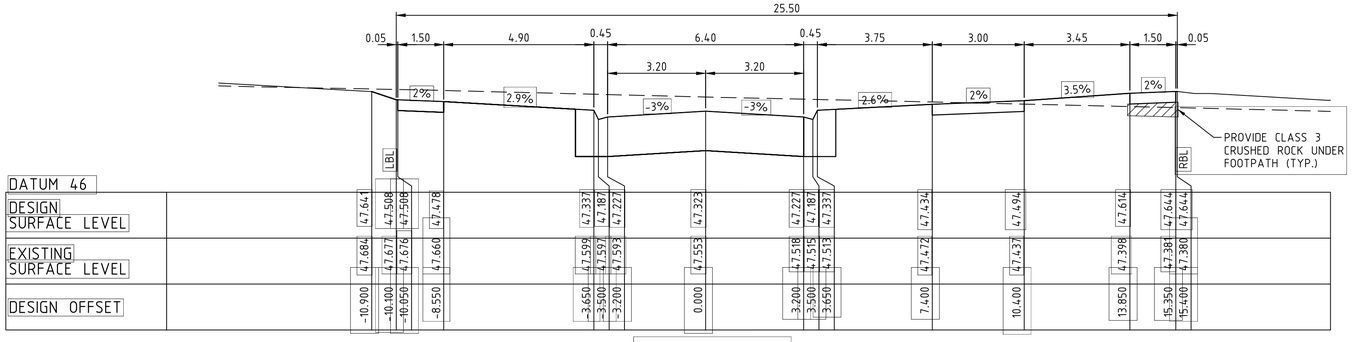
SCALE: AS SHOWN | DATUM: AHD | DATE: NOV' 17 | SHEET: 17 OF 25 | B



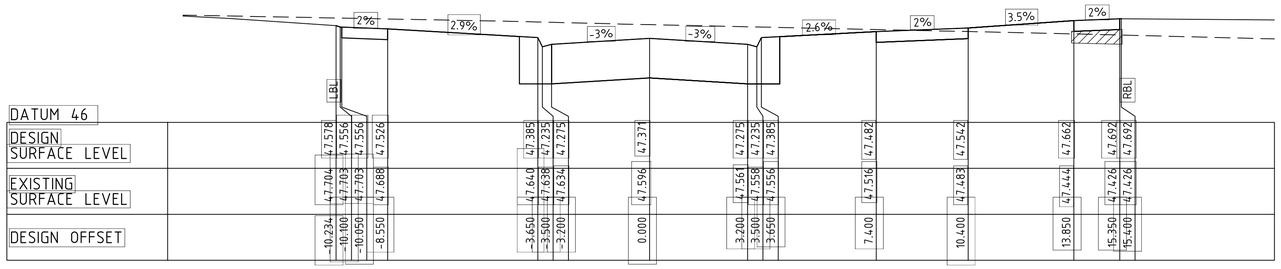
CH 293.240



CH 291.240



CH 265.640



CH 255.994

RIVERSTONE PROMENADE CROSS SECTIONS - 4

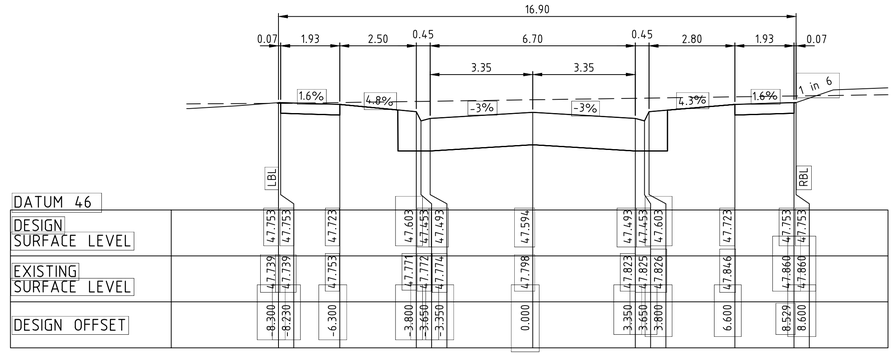
COUNCIL REF. No. 2315/17 - 6215/12

ALL LENGTHS ARE IN METRES

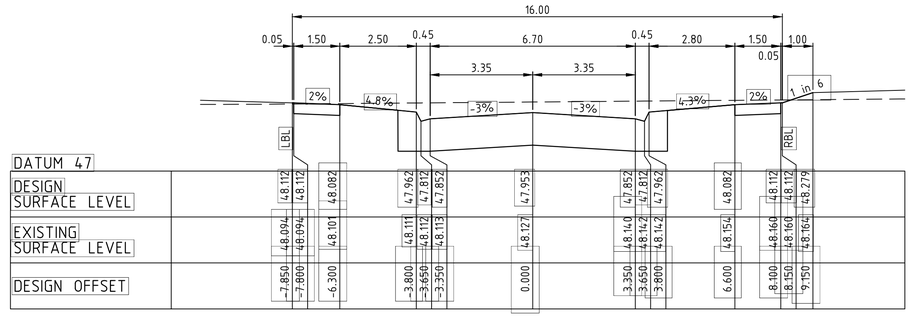
V 1:50
H 1:100

A1

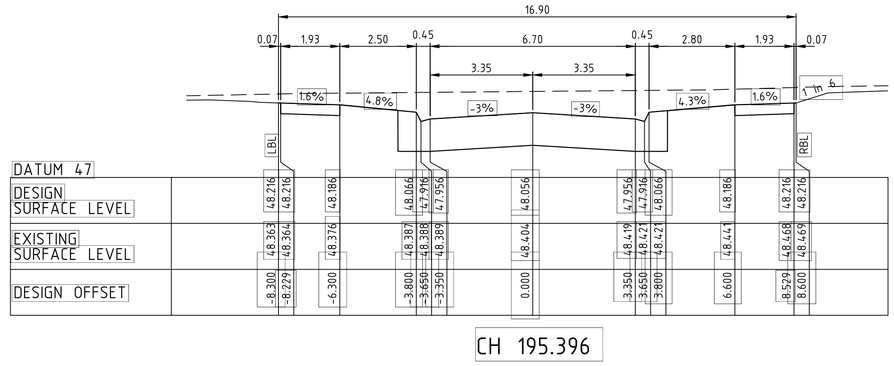
AS CONSTRUCTED



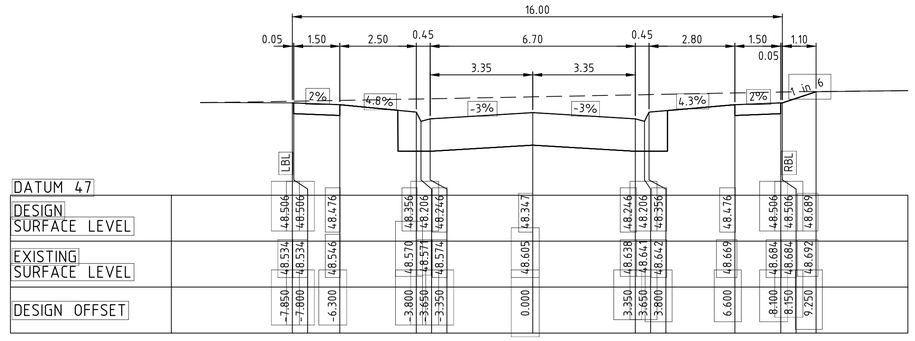
CH 265.124



CH 235.674 MAVEN WAY CROSS SECTIONS



CH 195.396



CH 168.946 TEMPLE STREET CROSS SECTIONS

VER.	DATE	REMARKS
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

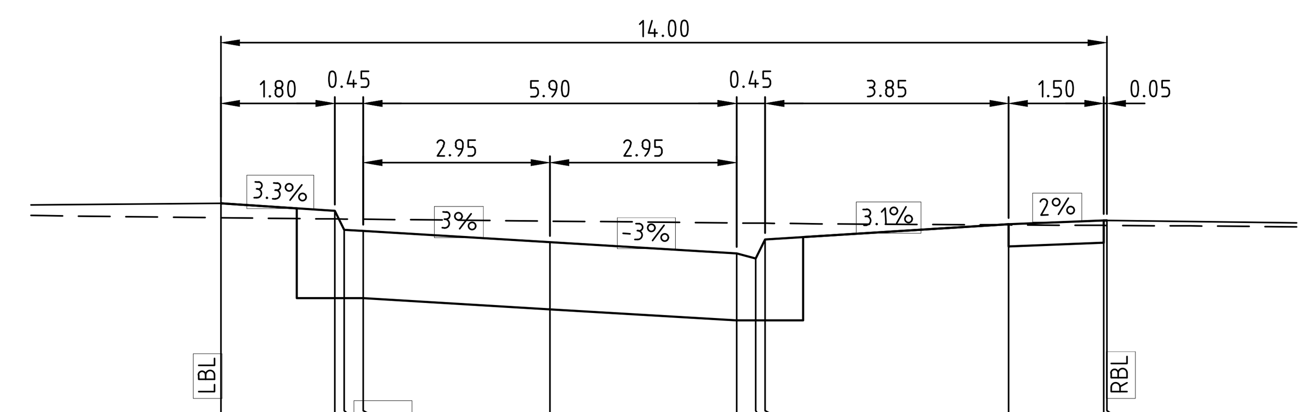
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9

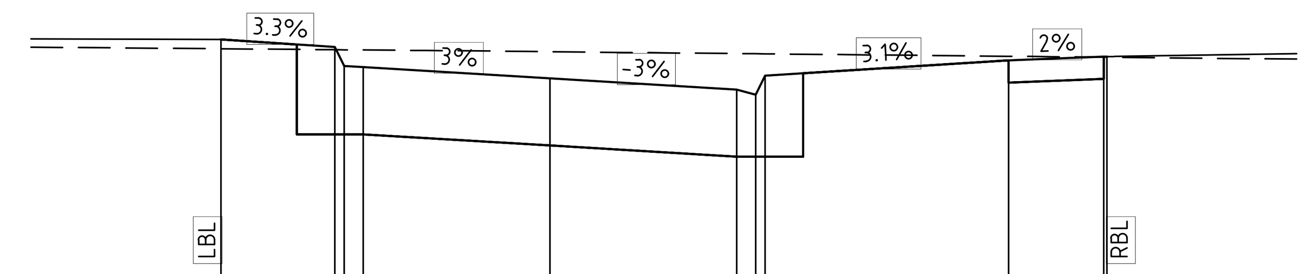
SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 18 OF 25 | B



DATUM 48

DESIGN SURFACE LEVEL	49.889	49.829	49.679	49.670	49.582	49.493	49.453	49.603	49.723	49.753	49.753
EXISTING SURFACE LEVEL	49.774	49.765	49.765	49.763	49.748	49.733	49.732	49.731	49.718	49.714	49.714
DESIGN OFFSET	-5.200	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.400	7.250	8.750	8.800

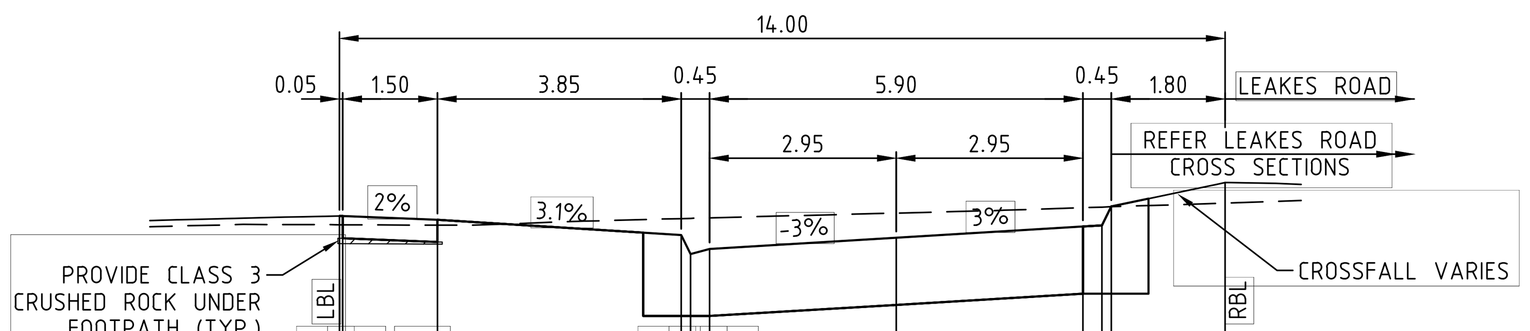
CH 410.374



DATUM 48

DESIGN SURFACE LEVEL	50.114	50.054	49.904	49.895	49.806	49.718	49.678	49.828	49.948	49.978	49.978
EXISTING SURFACE LEVEL	50.040	50.033	50.032	50.031	50.017	50.002	50.001	50.000	49.981	49.973	49.973
DESIGN OFFSET	-5.200	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.400	7.250	8.750	8.800

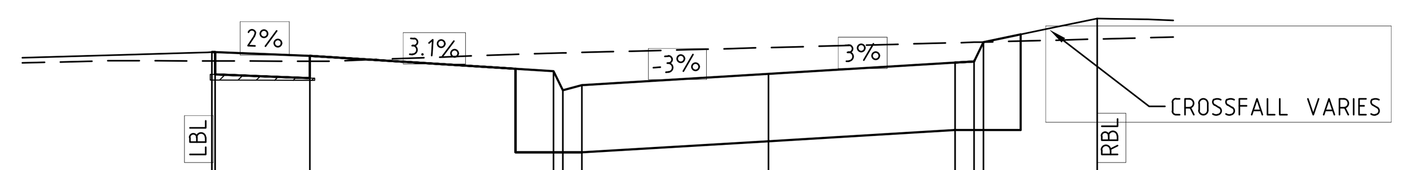
CH 389.931



DATUM 49

DESIGN SURFACE LEVEL	50.200	50.200	50.170	50.050	49.900	49.940	50.029	50.117	50.126	50.276
EXISTING SURFACE LEVEL	50.132	50.132	50.129	50.180	50.182	50.186	50.224	50.267	50.271	50.274
DESIGN OFFSET	-8.800	-8.750	-7.250	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.400

CH 363.222

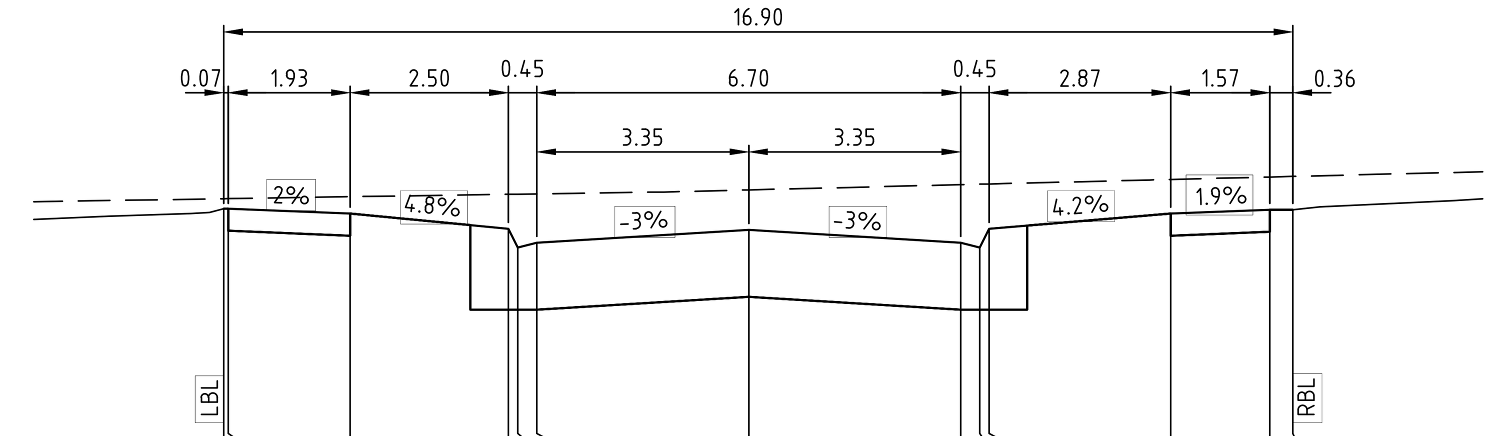


DATUM 49

DESIGN SURFACE LEVEL	50.206	50.206	50.176	50.056	49.906	49.946	50.034	50.123	50.132	50.282
EXISTING SURFACE LEVEL	50.136	50.136	50.134	50.198	50.199	50.203	50.241	50.279	50.283	50.285
DESIGN OFFSET	-8.800	-8.750	-7.250	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.400

CH 362.162

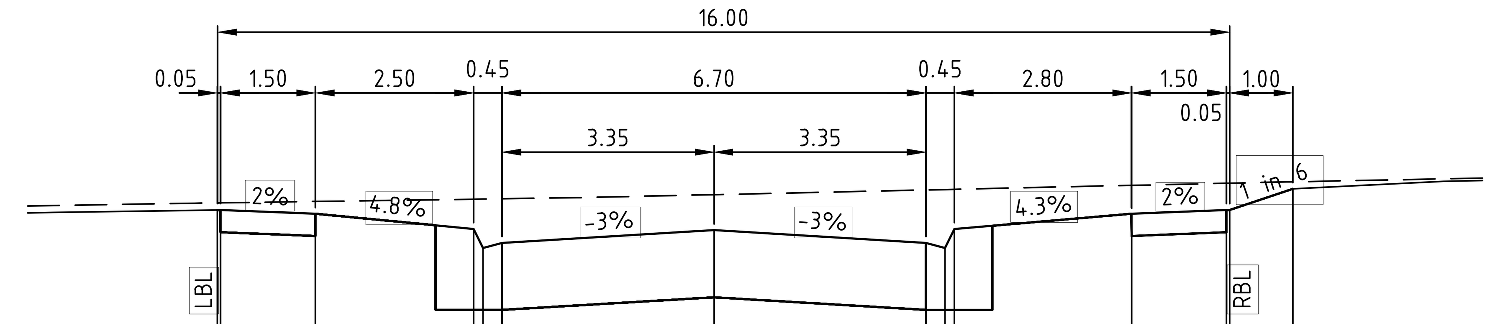
PALLADINO WAY CROSS SECTIONS



DATUM 47

DESIGN SURFACE LEVEL	49.026	49.026	48.987	48.867	48.717	48.757	48.858	48.757	48.717	48.867	48.987	49.017	49.017
EXISTING SURFACE LEVEL	49.104	49.105	49.120	49.139	49.140	49.142	49.174	49.215	49.219	49.221	49.256	49.276	49.280
DESIGN OFFSET	-8.300	-8.229	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.669	8.237	8.600

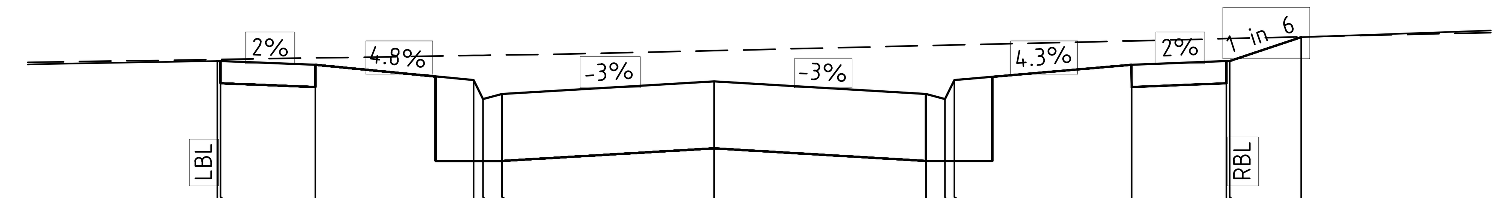
CH 196.250



DATUM 48

DESIGN SURFACE LEVEL	49.163	49.163	49.133	49.013	48.863	48.903	49.003	48.903	48.863	49.013	49.133	49.163	49.163	49.329
EXISTING SURFACE LEVEL	49.219	49.219	49.230	49.248	49.250	49.252	49.284	49.321	49.325	49.326	49.357	49.374	49.375	49.386
DESIGN OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150	9.150

CH 167.135

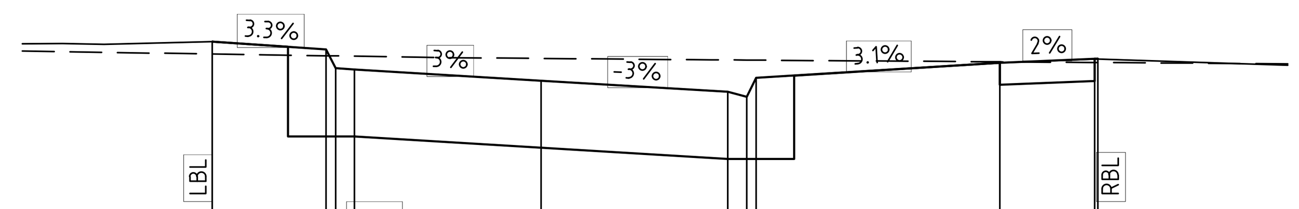


DATUM 48

DESIGN SURFACE LEVEL	49.326	49.326	49.296	49.176	49.026	49.066	49.166	49.066	49.026	49.176	49.296	49.326	49.326	49.514
EXISTING SURFACE LEVEL	49.339	49.339	49.351	49.370	49.371	49.373	49.409	49.448	49.451	49.453	49.486	49.503	49.504	49.517
DESIGN OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.350	0.000	3.350	3.650	3.800	6.600	8.100	8.150	9.280

CH 142.334

ORTIZ AVENUE CROSS SECTIONS



DATUM 48

DESIGN SURFACE LEVEL	49.599	49.539	49.389	49.380	49.292	49.203	49.163	49.313	49.433	49.463	49.463
EXISTING SURFACE LEVEL	49.502	49.488	49.487	49.485	49.467	49.455	49.454	49.453	49.440	49.435	49.435
DESIGN OFFSET	-5.200	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.400	7.250	8.750	8.800

CH 436.724

PALLADINO WAY CROSS SECTIONS

COUNCIL REF. No. 2315/17 - 6215/12

V 1:50
H 1:100
ALL LENGTHS ARE IN METRES
A1

AS CONSTRUCTED

AMENDMENTS

VER.	DATE	REMARKS
A	23-04-2018	ISSUED FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

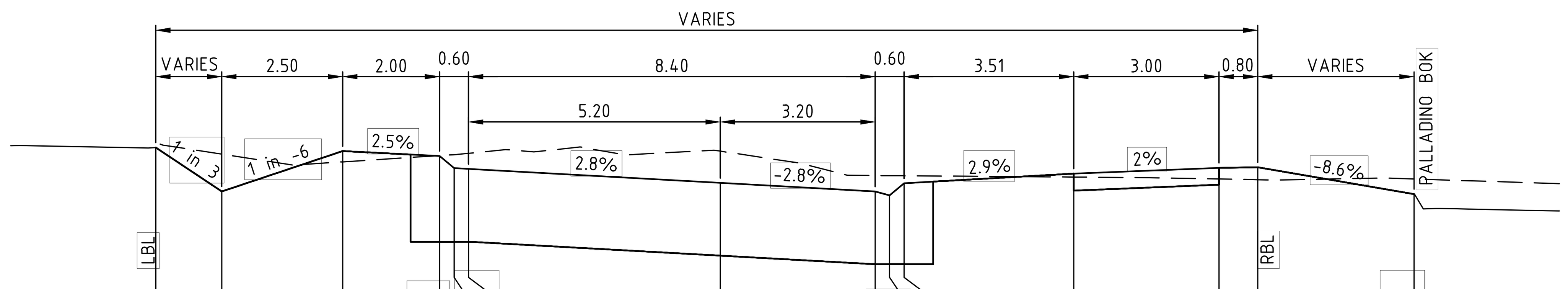
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9

SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 19 OF 25 | A

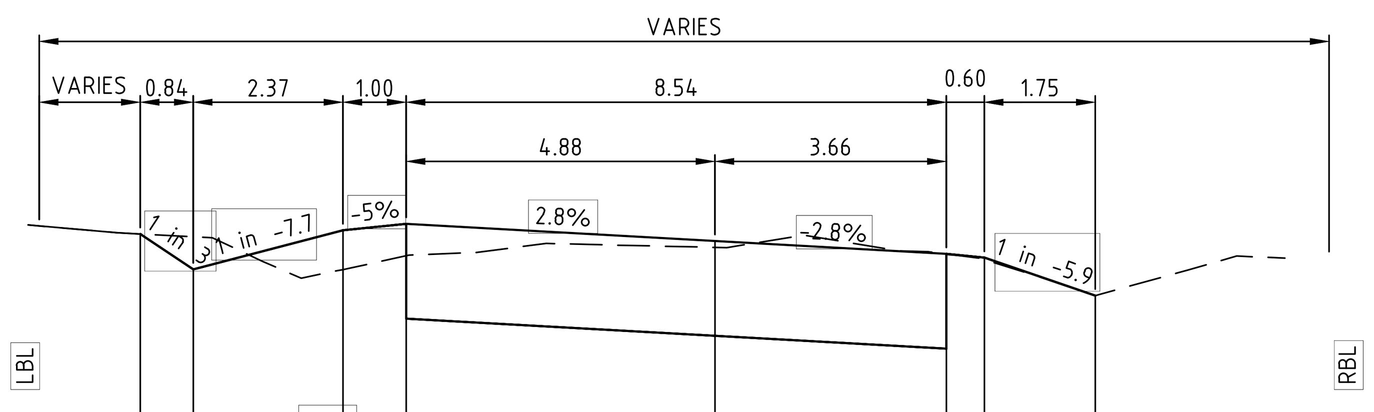
ROAD XS, 23/04/2018 6:59:07 PM, 1:1



DATUM 49

DESIGN SURFACE LEVEL	50.591	50.137	50.554	50.504	50.379	50.370	50.225	50.136	50.096	50.221	50.321	50.381	50.387	50.110
EXISTING SURFACE LEVEL		50.522	50.443	50.508	50.517	50.531	50.554	50.302	50.301	50.299	50.286	50.266	50.259	50.266
DESIGN OFFSET	-11.661	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	7.305	10.305	11.105	14.337

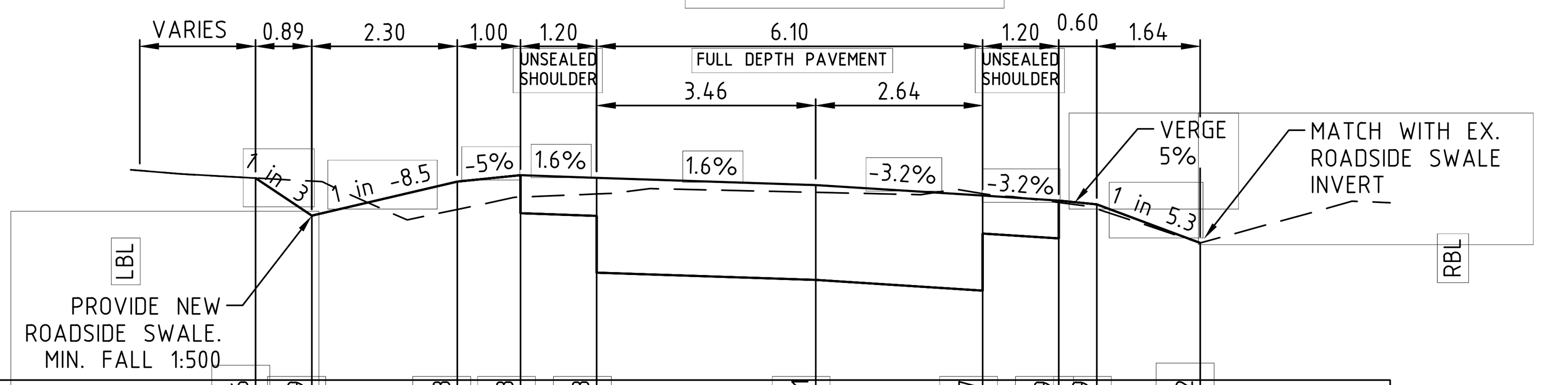
CH 279.783



DATUM 49

DESIGN SURFACE LEVEL	50.572	50.293	50.602	50.652	50.516	50.414	50.384	50.085
EXISTING SURFACE LEVEL	50.572	50.549	50.290	50.400	50.466	50.413	50.369	50.085
DESIGN OFFSET	-9.083	-8.245	-5.879	-4.879	0.000	3.659	4.259	6.012

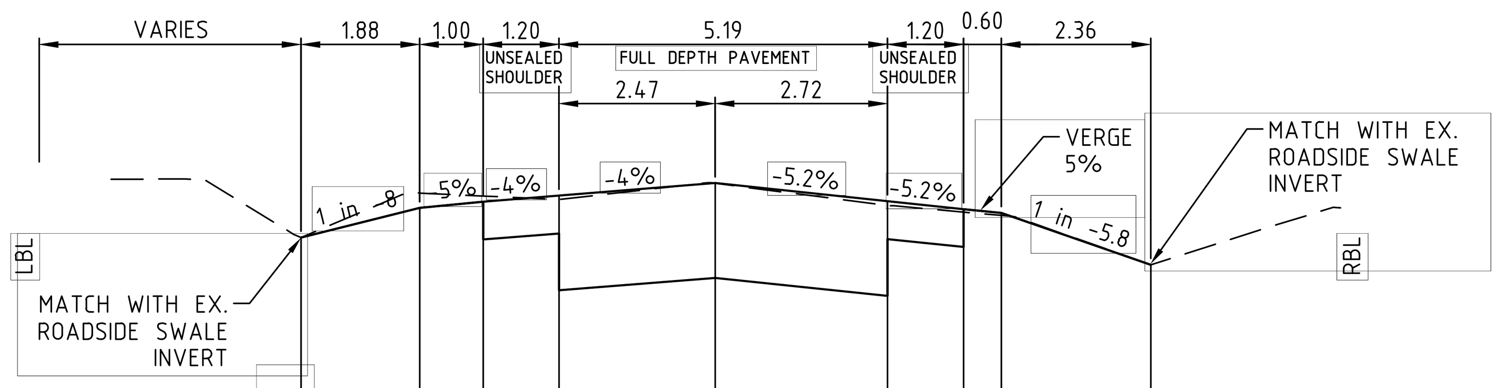
CH 174.500



DATUM 49

DESIGN SURFACE LEVEL	50.596	50.299	50.568	50.618	50.598	50.541	50.457	50.419	50.389	50.082
EXISTING SURFACE LEVEL	50.596	50.572	50.348	50.446	50.470	50.483	50.474	50.403	50.351	50.082
DESIGN OFFSET	-8.853	-7.961	-5.662	-4.662	-3.461	0.000	2.640	3.840	4.440	6.076

CH 169.485



DATUM 49

DESIGN SURFACE LEVEL	50.330	50.564	50.614	50.662	50.761	50.618	50.555	50.525	50.115
EXISTING SURFACE LEVEL	50.330	50.682	50.659	50.632	50.759	50.584	50.532	50.505	50.115
DESIGN OFFSET	-6.545	-4.667	-3.667	-2.466	0.000	2.724	3.924	4.524	6.884

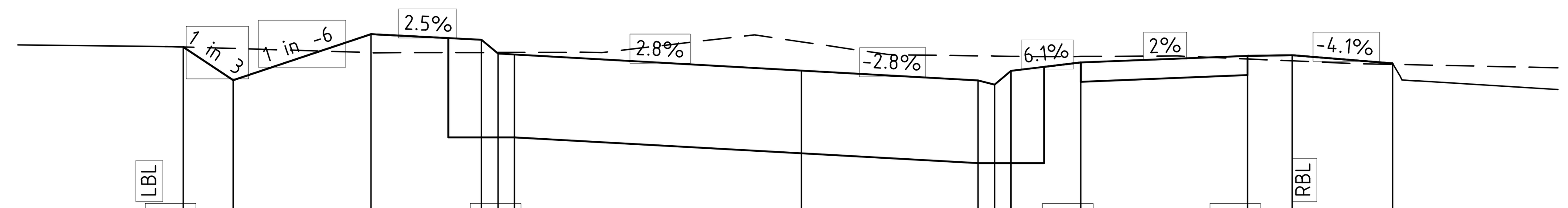
CH 144.500

LEAKES ROAD CROSS SECTIONS - 1

DATUM 49

DESIGN SURFACE LEVEL	50.991	50.564	50.980	50.930	50.805	50.796	50.652	50.563	50.523	50.648	50.722	50.782	50.788	50.728
EXISTING SURFACE LEVEL	50.991	50.986	50.974	50.862	50.862	50.867	50.968	50.853	50.846	50.838	50.823	50.804	50.798	50.784
DESIGN OFFSET	-11.581	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	4.700	7.700	8.500	10.307

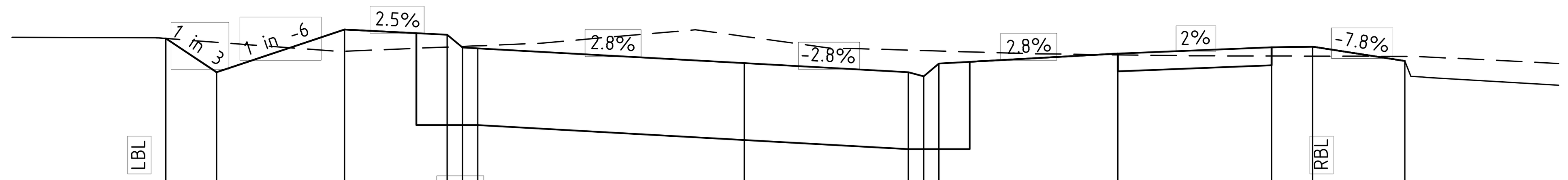
CH 360.000



DATUM 49

DESIGN SURFACE LEVEL	50.740	50.438	50.855	50.805	50.680	50.671	50.526	50.438	50.398	50.523	50.600	50.660	50.666	50.591
EXISTING SURFACE LEVEL	50.740	50.726	50.689	50.689	50.690	50.690	50.787	50.660	50.658	50.655	50.654	50.631	50.613	50.582
DESIGN OFFSET	-11.204	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	5.065	8.088	8.895	10.714

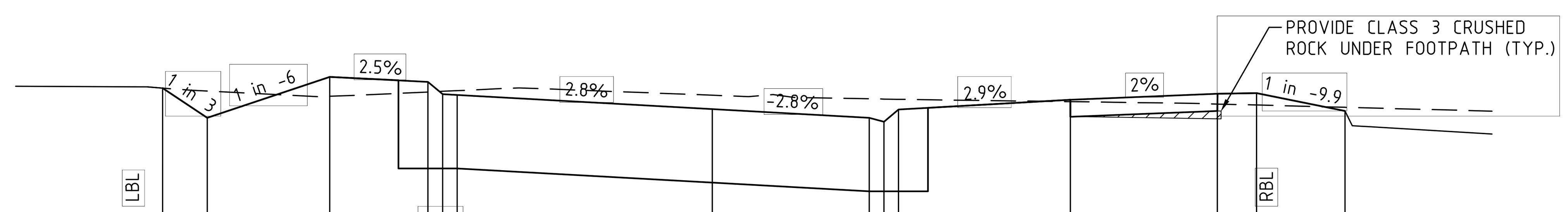
CH 340.000



DATUM 49

DESIGN SURFACE LEVEL	50.668	50.338	50.755	50.705	50.580	50.571	50.426	50.338	50.298	50.423	50.521	50.581	50.587	50.448
EXISTING SURFACE LEVEL	50.668	50.631	50.544	50.584	50.590	50.596	50.688	50.554	50.550	50.546	50.508	50.497	50.496	50.493
DESIGN OFFSET	-11.290	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	7.290	10.291	11.091	12.892

CH 320.000



DATUM 49

DESIGN SURFACE LEVEL	50.541	50.238	50.655	50.605	50.480	50.471	50.326	50.238	50.198	50.323	50.423	50.483	50.489	50.307
EXISTING SURFACE LEVEL	50.541	50.511	50.457	50.501	50.508	50.515	50.468	50.432	50.429	50.426	50.402	50.378	50.368	50.345
DESIGN OFFSET	-11.208	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	7.303	10.303	11.103	12.903

CH 300.000

COUNCIL REF. No. 2315/17 - 6215/12

V 1:50
H 1:100
ALL LENGTHS ARE IN METRES
A1

AS CONSTRUCTED

AMENDMENTS

VER.	DATE	REMARKS
A	23-04-2018	ISSUED FOR CONSTRUCTION

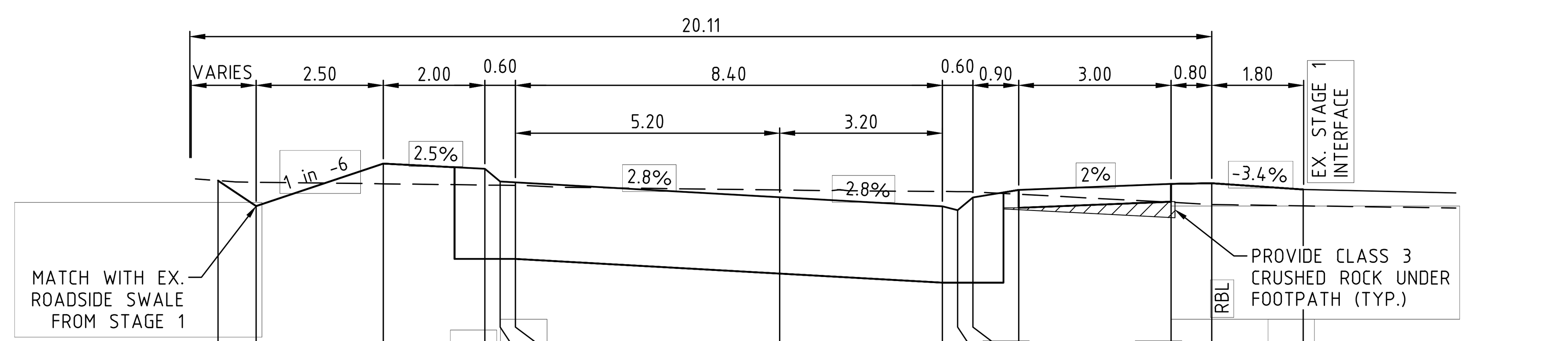
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9

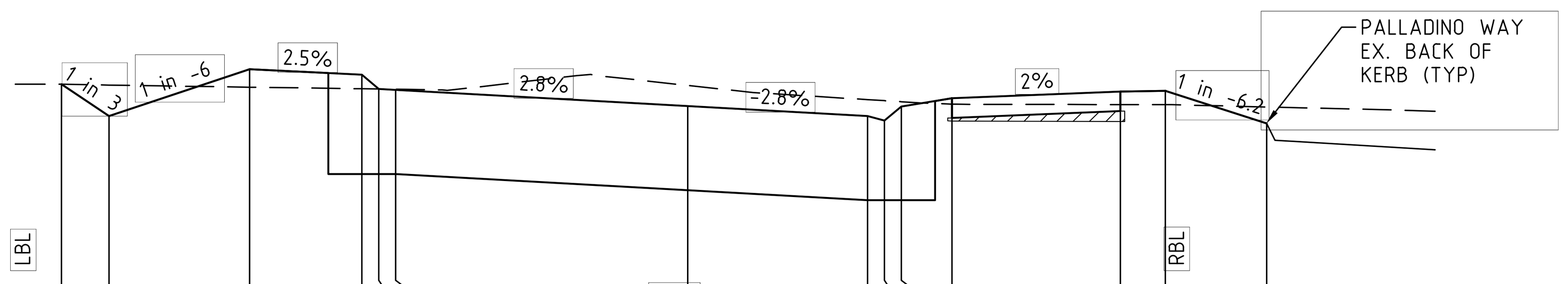
SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 20 OF 25 | A



DATUM 49

DESIGN SURFACE LEVEL	50.688	50.437	50.854	50.804	50.679	50.670	50.525	50.437	50.397	50.522	50.596	50.656	50.662	50.600
EXISTING SURFACE LEVEL	50.688	50.672	50.657	50.644	50.643	50.641	50.596	50.581	50.580	50.578	50.554	50.475	50.452	50.440
DESIGN OFFSET	-11.052	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	4.700	7.700	8.500	10.300

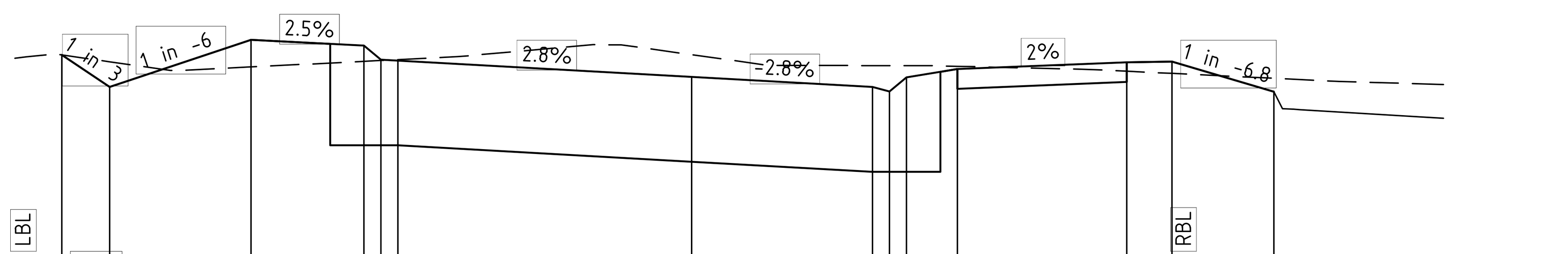
CH 442.120



DATUM 49

DESIGN SURFACE LEVEL	50.996	50.714	51.131	51.081	50.956	50.947	50.802	50.713	50.673	50.798	50.872	50.932	50.938	50.648
EXISTING SURFACE LEVEL	50.996	50.989	50.970	50.956	50.954	50.952	50.986	50.860	50.850	50.844	50.820	50.815	50.814	50.794
DESIGN OFFSET	-11.146	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	4.700	7.700	8.500	10.301

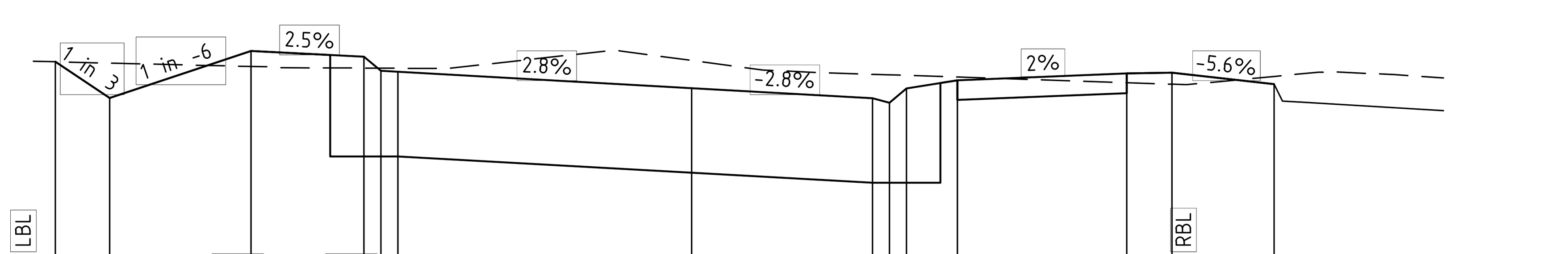
CH 420.000



DATUM 49

DESIGN SURFACE LEVEL	51.073	50.790	51.207	51.157	51.032	51.023	50.878	50.789	50.749	50.874	50.948	51.008	51.014	50.748
EXISTING SURFACE LEVEL	51.073	51.013	50.967	51.017	51.024	51.032	51.075	50.979	50.979	50.979	50.972	50.929	50.910	50.866
DESIGN OFFSET	-11.150	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	4.700	7.700	8.500	10.303

CH 400.000



DATUM 49

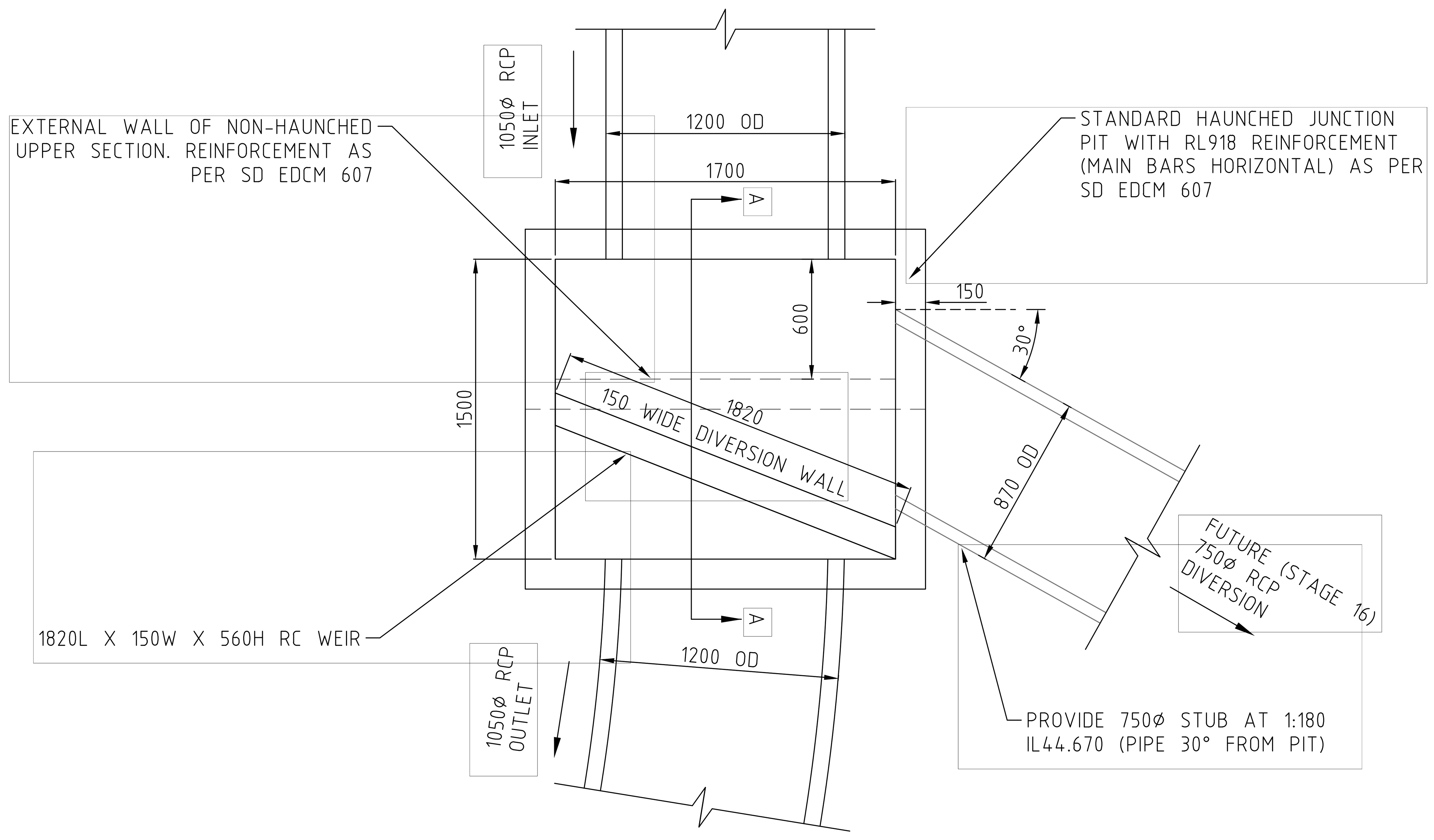
DESIGN SURFACE LEVEL	51.025	50.704	51.120	51.070	50.945	50.936	50.792	50.703	50.663	50.788	50.862	50.922	50.928	50.827
EXISTING SURFACE LEVEL	51.025	51.014	50.984	50.970	50.969	50.968	51.037	50.915	50.910	50.905	50.890	50.840	50.827	50.896
DESIGN OFFSET	-11.265	-10.300	-7.800	-5.800	-5.500	-5.200	0.000	3.200	3.500	3.800	4.700	7.700	8.500	10.305

CH 380.000

LEAKES ROAD CROSS SECTIONS - 2

COUNCIL REF. No. 2315/17 - 6215/12

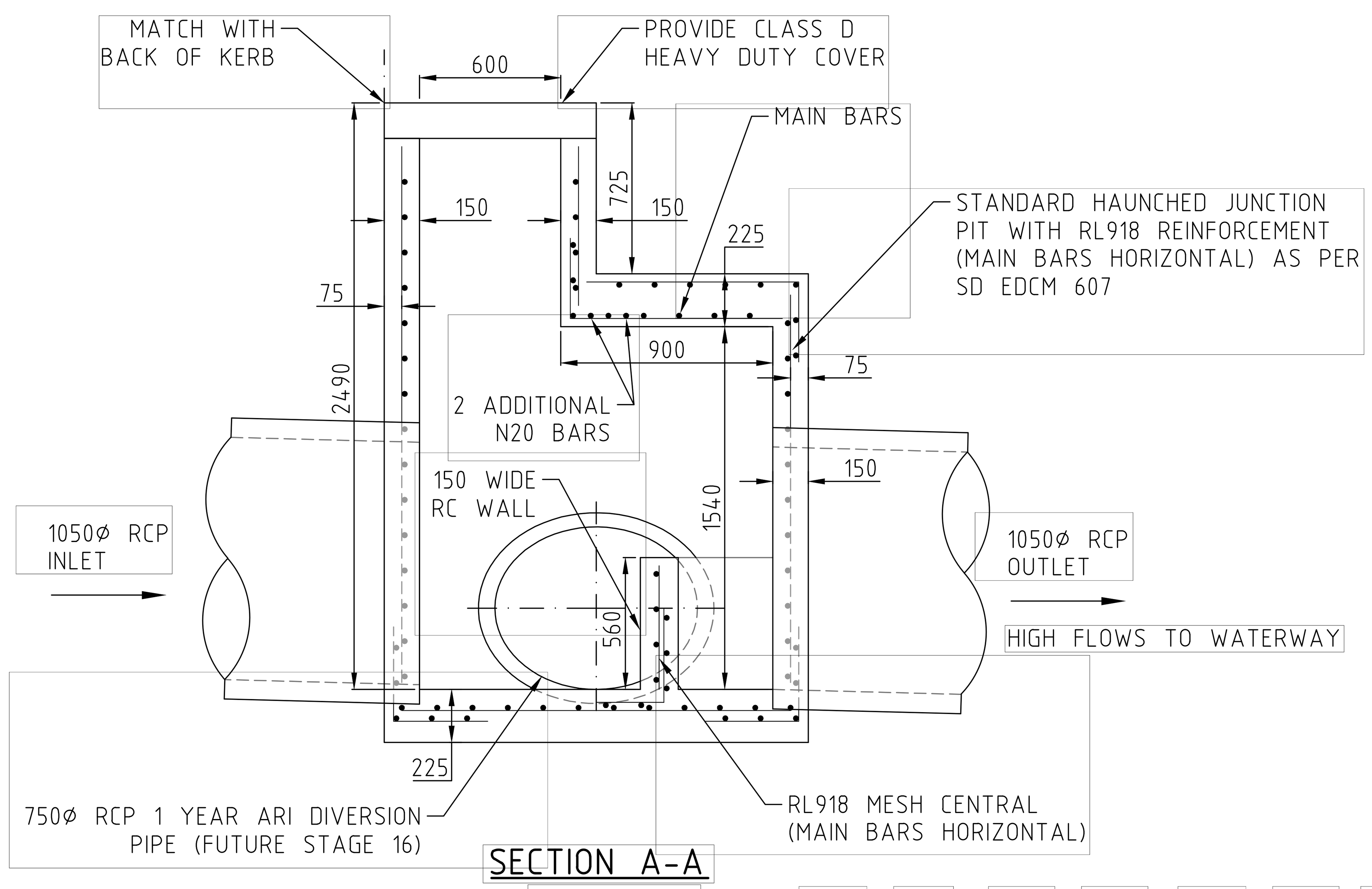
V 1:50
H 1:100
ALL LENGTHS ARE IN METRES
A1



LOW FLOW DIVERSION PIT 2 - DETAIL PLAN

SCALE 1:20

NOTE: ALL REINFORCEMENT TO BE IN ACCORDANCE WITH SUBDIVISIONS IN GROWTH AREAS STANDARD DRAWING EDCM 607 REV 0 AND AS NOTED ON PLAN AND SECTION AA



SECTION A-A

SCALE 1:20

1:20
ALL LENGTHS ARE IN MILLIMETRES
A1

A	23-04-2018	ISSUED FOR CONSTRUCTION	
VER.	DATE	REMARKS	

AMENDMENTS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF.	234-G-2
SURVEY	BPD
DESIGN	L.G.
DRAWN	L.G.
CHECKED	

RIVERDALE VILLAGE

STAGE 9

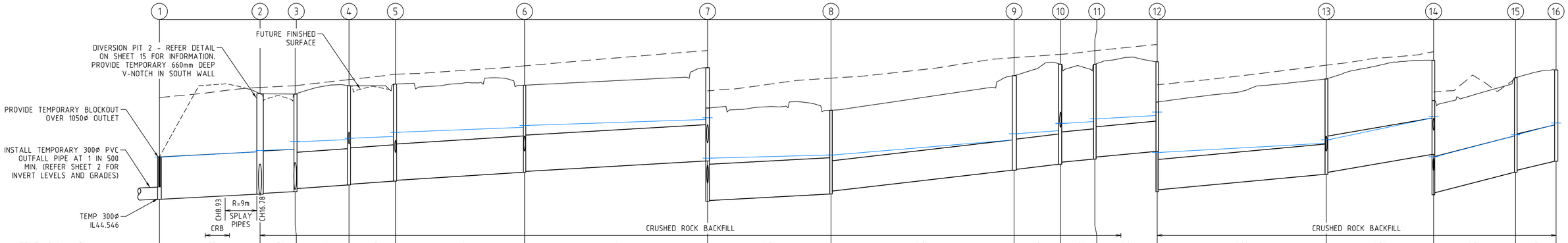
MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/9

SCALE: AS SHOWN | DATUM: AHD | DATE: NOV' 17 | SHEET: 21 OF 25 | A

AS CONSTRUCTED

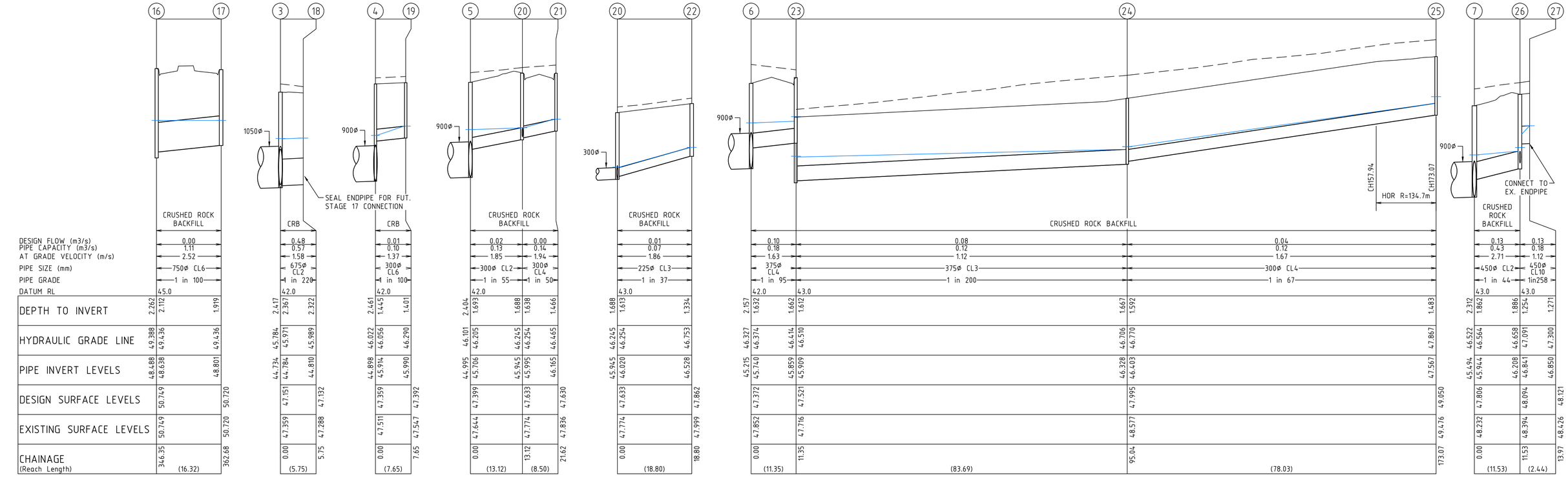
ROAD XS, 23/04/2018 7:23:36 PM, 1:1



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DESIGN FLOW (m3/s)		1.55	1.56	1.12	1.13	1.12	1.04	0.92	0.92	0.91	0.82	0.81	0.82	0.76	0.74	0.74
PIPE CAPACITY (m3/s)		1.93	1.93	1.48	1.48	1.43	1.37	1.31	1.19	1.17	1.06	1.06	1.06	2.34	2.86	2.70
AT GRADE VELOCITY (m/s)		2.23	2.23	2.32	2.32	2.25	2.15	2.06	2.69	2.66	2.40	2.40	2.40	3.68	4.50	4.24
PIPE SIZE (mm)		1050ø CL2	1050ø CL4	900ø CL2	900ø CL4	900ø CL4	900ø CL4	900ø CL4	750ø CL4	750ø CL2	750ø CL4	750ø CL2	750ø CL3	900ø CL3	900ø CL4	900ø CL3
PIPE GRADE		1 in 200	1 in 200	1 in 150	1 in 150	1 in 160	1 in 175	1 in 191	1 in 88	1 in 90	1 in 110	1 in 110	1 in 110	1 in 60	1 in 40	1 in 45
DATUM RL	42.0						43.0					44.0			45.0	
DEPTH TO INVERT	1.052	1.052	2.600	2.580	2.566	2.491	2.461	2.441	2.404	2.384	2.157	2.137	2.312	2.292	2.077	2.002
HYDRAULIC GRADE LINE	45.590		45.720	45.753	45.784	45.971	46.022	46.056	46.101	46.205	46.327	46.374	46.522	46.564	46.643	
PIPE INVERT LEVELS	44.546	44.546	44.670	44.690	44.734	44.809	44.898	44.918	44.995	45.015	45.215	45.235	45.494	45.514	45.675	45.750
DESIGN SURFACE LEVELS	45.598		47.270	47.316	47.300	47.359	47.359	47.399	47.399	47.372	47.372	47.806	47.806	47.752		
EXISTING SURFACE LEVELS	47.067		47.316	47.359	47.359	47.511	47.511	47.644	47.852	47.852	48.232	48.232	48.548	48.548	49.055	49.137
CHAINAGE (Reach Length)	0.00	(24.94)	24.94	(8.71)	33.65	(13.36)	47.01	(11.51)	58.52	(32.02)	90.54	(45.39)	135.93	(30.61)	166.54	(45.39)

	9	10	11	12	13	14	15	16
DESIGN FLOW (m3/s)								
PIPE CAPACITY (m3/s)								
AT GRADE VELOCITY (m/s)								
PIPE SIZE (mm)	750ø CL2	750ø CL4	750ø CL2	750ø CL3	900ø CL3	900ø CL4	900ø CL3	
PIPE GRADE	1 in 90	1 in 110	1 in 110	1 in 110	1 in 60	1 in 40	1 in 45	
DATUM RL				44.0		45.0		
DEPTH TO INVERT	2.343	2.323	2.479	2.429	2.349	2.299	2.222	2.172
HYDRAULIC GRADE LINE	47.015	47.169	47.245	47.423	47.469	47.538	47.620	47.706
PIPE INVERT LEVELS	46.265	46.285	46.413	46.463	46.541	46.591	46.731	46.781
DESIGN SURFACE LEVELS	48.609	48.892	48.890	48.953				
EXISTING SURFACE LEVELS	49.055	49.137	49.228	49.382				
CHAINAGE (Reach Length)	211.93	(11.53)	223.46	(8.50)	231.96	(15.48)	247.43	(41.93)

	12	13	14	15	16
DESIGN FLOW (m3/s)					
PIPE CAPACITY (m3/s)					
AT GRADE VELOCITY (m/s)					
PIPE SIZE (mm)					
PIPE GRADE					
DATUM RL					
DEPTH TO INVERT	2.365	2.315	2.334	2.284	2.342	2.292	2.262
HYDRAULIC GRADE LINE	47.932	48.018	48.556	48.599	49.115	49.143	49.388
PIPE INVERT LEVELS	47.163	47.213	47.656	47.706	48.215	48.265	48.488
DESIGN SURFACE LEVELS	49.528		49.990		50.557		50.749
EXISTING SURFACE LEVELS	49.868		50.202		50.557		50.749
CHAINAGE (Reach Length)	289.36	(26.61)	315.97	(20.35)	336.32	(10.03)	346.35



	16	17	3	18	4	19	5	20	21	20	22
DESIGN FLOW (m3/s)		0.00		0.48		0.01		0.02	0.00		0.01
PIPE CAPACITY (m3/s)		1.11		0.57		0.10		0.13	0.14		0.07
AT GRADE VELOCITY (m/s)		2.52		1.58		1.37		1.85	1.94		1.86
PIPE SIZE (mm)		750ø CL6		675ø CL2		300ø CL6		300ø CL2	300ø CL4		225ø CL3
PIPE GRADE		1 in 100		1 in 220		1 in 100		1 in 55	1 in 50		1 in 37
DATUM RL	45.0		42.0		42.0		42.0			43.0	
DEPTH TO INVERT	2.262	2.112	2.417	2.367	2.322	2.461	1.445	1.401	2.404	1.693	1.688	1.638	1.466	1.688	1.613	1.334
HYDRAULIC GRADE LINE	49.388	49.436	45.784	45.971	45.989	46.022	46.056	46.290	46.101	46.205	46.245	46.254	46.465	46.245	46.254	46.753
PIPE INVERT LEVELS	48.488	48.638	44.734	44.784	44.810	44.898	45.914	45.990	44.995	45.706	45.945	45.995	46.165	45.945	46.020	46.528
DESIGN SURFACE LEVELS	50.749		47.151		47.132	47.359		47.392	47.399		47.633	47.633	47.630	47.633	47.862	
EXISTING SURFACE LEVELS	50.749		47.359		47.288	47.511		47.547	47.644		47.774	47.774	47.836	47.774	47.999	
CHAINAGE (Reach Length)	346.35	(16.32)	0.00	(5.75)	5.75	0.00	(7.65)	7.65	0.00	(13.12)	13.12	(8.50)	21.62	0.00	(18.80)	18.80

	6	23	24	25
DESIGN FLOW (m3/s)	0.10	0.08	0.04	
PIPE CAPACITY (m3/s)	0.18	0.12	0.12	
AT GRADE VELOCITY (m/s)	1.63	1.12	1.67	
PIPE SIZE (mm)	375ø CL4	375ø CL3	300ø CL4	
PIPE GRADE	1 in 95	1 in 200	1 in 67	
DATUM RL	42.0	43.0		
DEPTH TO INVERT	2.157	1.632	1.662	1.612	1.667	1.592	1.483
HYDRAULIC GRADE LINE	46.327	46.374	46.414	46.510	46.706	46.770	47.867
PIPE INVERT LEVELS	45.215	45.740	45.859	45.909	46.328	46.403	47.567
DESIGN SURFACE LEVELS	47.372	47.521	47.995	49.050
EXISTING SURFACE LEVELS	47.852	47.716	48.577	49.476
CHAINAGE (Reach Length)	0.00	(11.35)	11.35	(83.69)	95.04	(78.03)	173.07

	7	26	27
DESIGN FLOW (m3/s)	0.13	0.13	
PIPE CAPACITY (m3/s)	0.43	0.18	
AT GRADE VELOCITY (m/s)	2.71	1.12	
PIPE SIZE (mm)	450ø CL2	450ø CL10	
PIPE GRADE	1 in 44	1in258	
DATUM RL	43.0	43.0	
DEPTH TO INVERT	2.312	1.862	1.886	1.254	1.271
HYDRAULIC GRADE LINE	46.522	46.564	46.658	47.091	47.300
PIPE INVERT LEVELS	45.494	45.944	46.208	46.841	46.850
DESIGN SURFACE LEVELS	47.806	48.094	48.121
EXISTING SURFACE LEVELS	48.232	48.394	48.426
CHAINAGE (Reach Length)	0.00	(11.53)	11.53	(2.44)	13.97

DRAINAGE LONGITUDINAL SECTIONS - 1

COUNCIL REF. No. 2315/17 - 6215/12

V 1:50

H 1:500

ALL LENGTHS ARE IN METRES A1

AS CONSTRUCTED

AMENDMENTS		
C	18-07-2018	PIT 2 & 3 FS AMENDED
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION
VER.	DATE	REMARKS

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

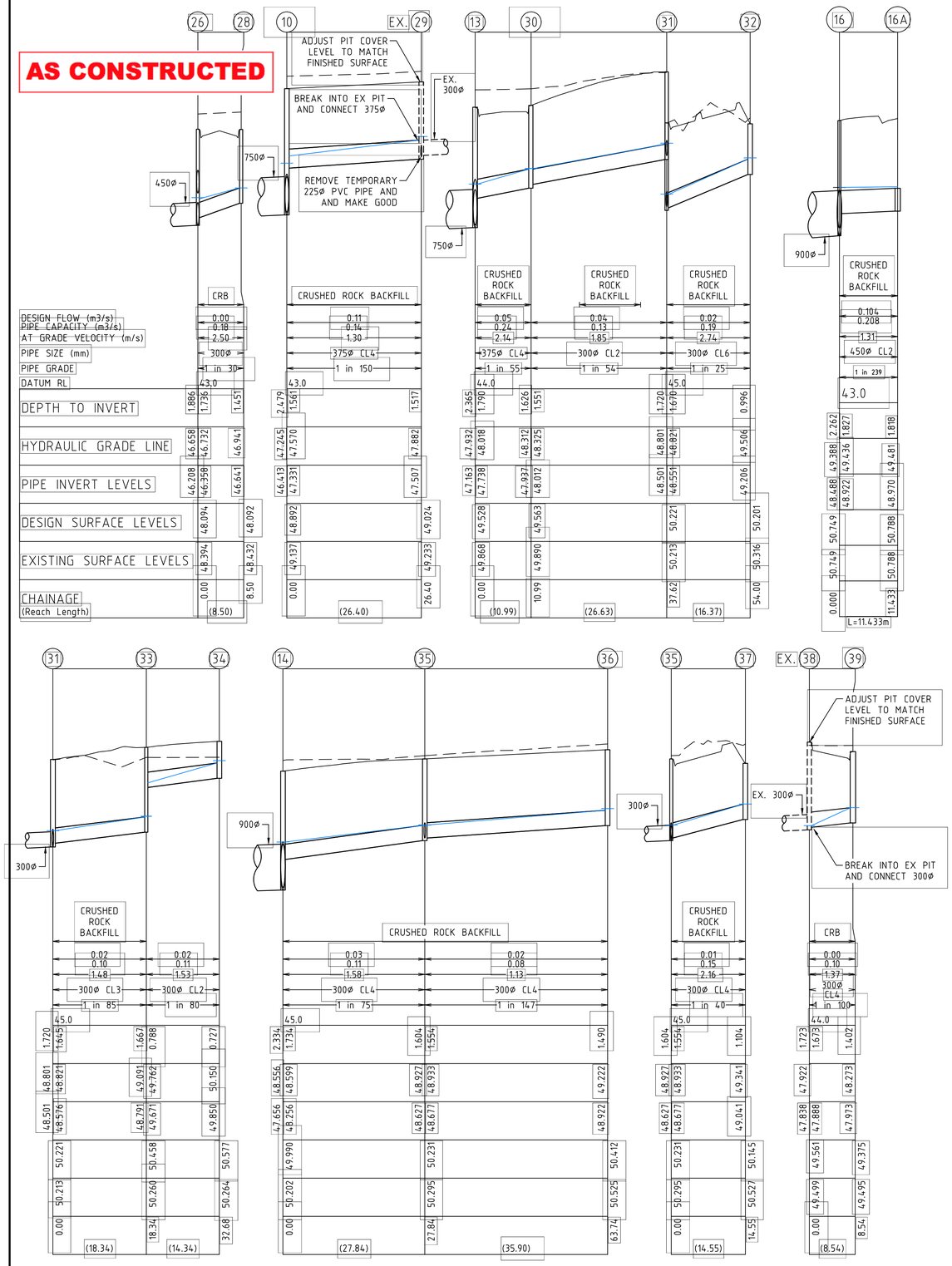
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE STAGE 9

MUNICIPALITY WYNDHAM

REFERENCE 8554 E/9

SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 22 OF 25 | C



PIT SCHEDULE

PIT No.	TYPE	EASTING	NORTHING	INTERNAL		INLET DETAILS		OUTLET DETAILS		COVER LEVEL	DEPTH	STANDARD DRAWING	REMARKS
				W	L	DIA	LEVEL	DIA	LEVEL				
1	ENDWALL	335.51	759.20			1050	44.546	300 PVC	44.546	45.598	1.052	REFER SHEET 14	PROVIDE TEMPORARY 300 DIA. PVC OUTFALL PIPE. PROVIDE TEMPORARY BLOCKOUT OVER 1050DIA. REFER SHEET 14 FOR TYPICAL ROCK ENDWALL DETAILS
2	JUNCTION PIT	352.97	775.40	1500	1700	1050	44.690	1050	44.670	47.270	2.600	EDCM 607 & SHEET 21	CLASS D HEAVY DUTY COVER. PROVIDE 660MM DEEP V-NOTCH IN SOUTH WALL. 750DIA. PIPE UNDER RIVERSTONE PROMENADE 30 DEGREES TO PIT WALL - REFER DETAIL SHEET 21
3	JUNCTION PIT	353.87	784.45	900	1800	900 675	44.809 44.784	1050	44.734	47.300	2.570	EDCM 601 & 607	COVER LEVEL SHOWN IS TO FUTURE FSL
4	JUNCTION PIT	364.39	792.86	600	1800	900 300	44.918 45.914	900	44.898	47.359	2.461	EDCM 605 & 607	COVER LEVEL SHOWN IS TO FUTURE FSL
5	GRATED ENTRY PIT	373.63	799.49	1200	1800	900 300	45.015 45.706	900	44.995	47.399	2.404	EDCM 601 & 607	
6	VR GRATED ENTRY PIT	377.69	831.30	1200	1000	900 375	45.235 45.740	900	45.215	47.372	2.157	VR SD1322	HEAVY DUTY GRATE FRAME AND LINTEL
7	JUNCTION PIT	382.38	876.44	1200	900	900 450	45.514 45.944	900	45.494	47.806	2.312	EDCM 605 & 607	
8	VR GRATED ENTRY PIT	385.50	906.43	1200	1000	750	45.750	900	45.675	47.752	2.077	VR SD1322	HEAVY DUTY GRATE FRAME AND LINTEL
9	JUNCTION PIT	390.24	952.04	1200	1500	750	46.285	750	46.265	48.609	2.343	EDCM 605 & 607	
10	GRATED ENTRY PIT			600	1500	750 375	46.463 47.331	750	46.413	48.892	2.479	EDCM 601 & 607	
11	GRATED ENTRY PIT			600	1200	750	46.591	750	46.541	48.890	2.349	EDCM 601 & 607	
12	GRATED ENTRY PIT			1200	900	750	46.781	750	46.731	48.953	2.222	EDCM 601 & 607	
13	DBL GRATED ENTRY PIT	405.91	1022.65	1200	900	900 375	47.213 47.738	750	47.163	49.528	2.365	EDCM 602 & 607	
14	GRATED ENTRY PIT	422.57	1043.04	1500	1200	900 300	47.706 48.256	900	47.656	49.990	2.334	EDCM 601 & 607	CLASS D HEAVY DUTY COVER
15	JUNCTION PIT	421.61	1064.03	1500	1500	900	48.265	900	48.215	50.557	2.342	EDCM 605 & 607	CLASS D HEAVY DUTY COVER
16	DBL GRATED ENTRY PIT	415.87	1071.52	1500	1200	750	48.638	900	48.488	50.749	2.262	EDCM 602 & 607	CLASS D HEAVY DUTY COVER
17	DBL GRATED ENTRY PIT	398.52	1071.74	1200	1200			750	48.801	50.720	1.919	EDCM 602 & 607	CLASS D HEAVY DUTY COVER
18	ENDPIPE	348.20	785.04					675	44.810	47.132	2.322		CAP AND SEAL ENDPIPE
19	GRATED ENTRY PIT	365.18	800.41	600	900			300	45.990	47.392	1.401	EDCM 601	
20	GRATED ENTRY PIT			600	900	300 225	45.995 46.020	300	45.945	47.633	1.688	EDCM 601	
21	GRATED ENTRY PIT			600	900			300	46.165	47.630	1.466	EDCM 601	
22	JUNCTION PIT			600	900			225	46.528	47.862	1.334	EDCM 605	
23	GRATED ENTRY PIT			600	900	375	45.909	375	45.859	47.521	1.662	EDCM 601	
24	GRATED ENTRY PIT			600	900	300	46.403	375	46.328	47.995	1.667	EDCM 601	
25	GRATED ENTRY PIT			600	900			300	47.567	49.050	1.483	EDCM 601	
26	GRATED ENTRY PIT			600	900	450 300	46.841 46.358	450	46.208	48.094	1.886	EDCM 601	
27	ENDPIPE					EX. 450	46.850	450	46.850	48.121	1.271		CONNECT TO EX. 450 RCP ENDPIPE
28	GRATED ENTRY PIT			600	900			300	46.641	48.092	1.451	EDCM 601	
29	EX. JUNCTION PIT					EX. 300 EX. 300	47.582 47.582	375	47.507	49.024	1.517		CONNECT TO EX. 375 RCP STUB. ADJUST COVER LEVEL TO MATCH FSL
30	GRATED ENTRY PIT			600	900	300	48.012	375	47.937	49.563	1.626	EDCM 601	
31	GRATED ENTRY PIT	380.83	1048.30	600	900	300 300	48.551 48.576	300	48.501	50.221	1.720	EDCM 601	
32	JUNCTION PIT	382.60	1064.58	600	900			300	49.206	50.201	0.996	EDCM 605	PROVIDE V-NOTCH IN NORTH WALL FOR SWALE FLOW ENTRY
33	JUNCTION PIT	363.51	1054.31	600	900	300	49.671	300	48.791	50.458	1.667	EDCM 605	
34	ENDWALL	349.23	1055.68					300	49.850	50.577	0.727	SD4-14/VR1991	PROVIDE DRIVEABLE ENDWALL
35	GRATED ENTRY PIT			600	900	300 300	48.677 48.677	300	48.627	50.231	1.604	EDCM 601	
36	GRATED ENTRY PIT			600	900			300	48.922	50.412	1.490	EDCM 601	
37	JUNCTION PIT			600	900			300	49.041	50.145	1.104	EDCM 605 & SD4-14/VR1991	CLASS D HEAVY DUTY COVER. INSTALL MIN.1m LENGTH 300DIA. RCP WITH DRIVABLE ENDWALL
38	EX. JUNCTION PIT					300 EX. 300	47.888 47.888	EX. 300	47.838	49.561	1.723		ADJUST COVER LEVEL TO MATCH FSL
39	GRATED ENTRY PIT			600	900			300	47.973	49.375	1.402	EDCM 601	CLASS D HEAVY DUTY COVER
40	VR GRATED ENTRY PIT			750	1000	EX. 300		EX. 300		49.965		VR SD1322	HEAVY DUTY GRATE FRAME AND LINTEL
41	EX. JUNCTION PIT												ADJUST COVER LEVEL TO MATCH FSL
42	EX. GRATED ENTRY PIT												ADJUST COVER LEVEL TO MATCH FSL
43	EX. GRATED ENTRY PIT												CONVERT TO JUNCTION PIT AND ADJUST COVER LEVEL TO MATCH FSL
44	JUNCTION PIT	370.82	763.34	1200	1200	750	44.550	750	44.530	47.247	2.717	EDCM 605 & 607	PROVIDE 750DIA. RCP STUB (WITH CAP) IN SOUTH WALL AT 1:180 - IL44.530

NOTES
1. FOR 750dia DIVERSION DRAIN PIT 2 TO PIT 44 REFER TO SHEET No. 25 FOR LONGITUDINAL SECTION
2. EASTING AND NORTHING COORDINATES REFER TO CENTRE OF PIT/ CENTRE OF HAUNCHING

DRAINAGE LONGITUDINAL SECTIONS - 2 AND PIT SCHEDULE

COUNCIL REF. No. 2315/17 - 6215/12

ALL LENGTHS ARE IN METRES (A1)

V 1:50
H 1:500

VER.	DATE	REMARKS
D	11-01-2019	ADDED LINE 16-16A
C	18-07-2018	PIT 2&3 PIT SCHEDULE AMENDED
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

AMENDMENTS

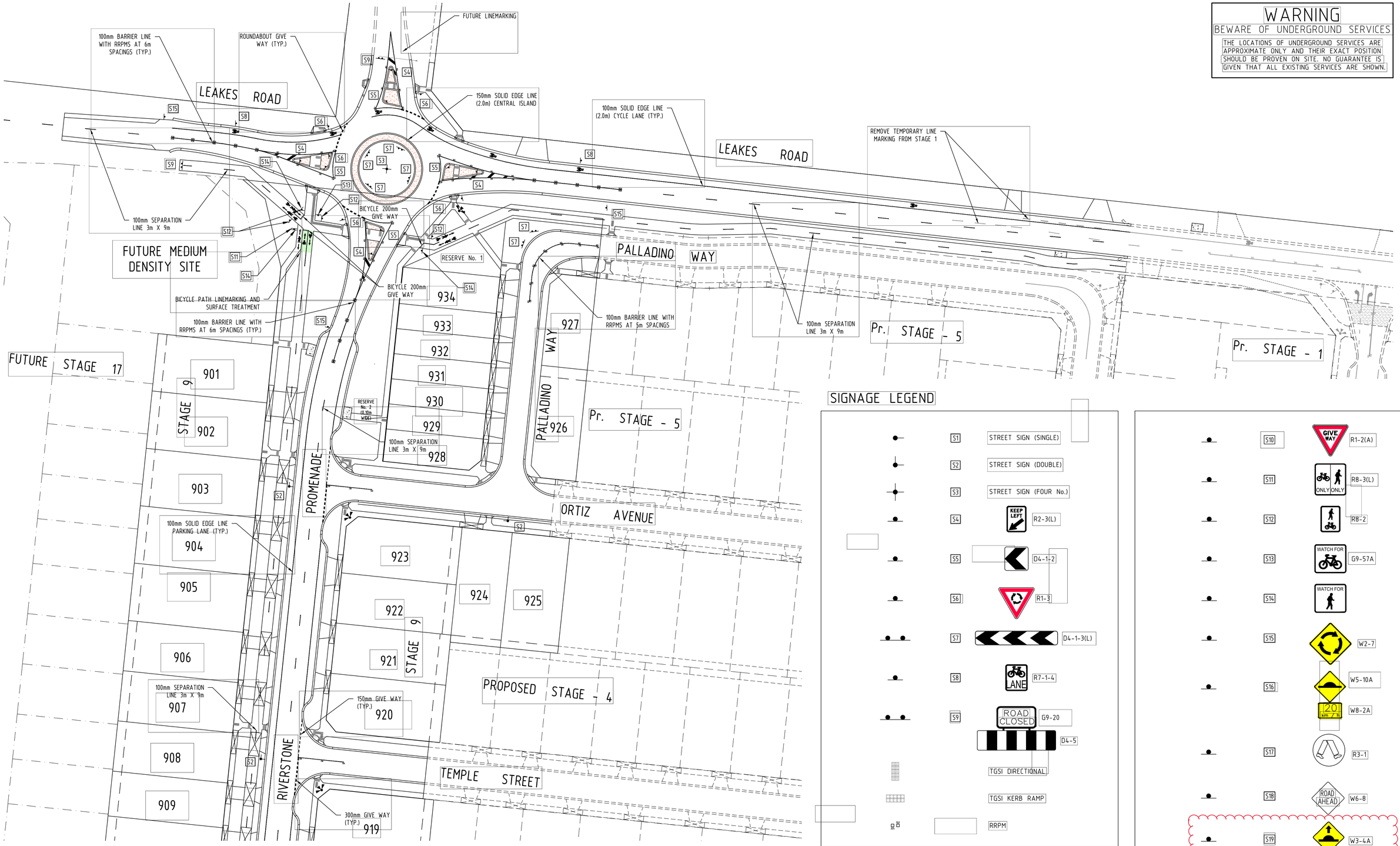
MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/9

SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 23 OF 25 | D



WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

CONTINUE SHEET 25

SIGNAGE LEGEND

S1	STREET SIGN (SINGLE)	
S2	STREET SIGN (DOUBLE)	
S3	STREET SIGN (FOUR No.)	
S4	KEEP LEFT	R2-3(L)
S5		D4-1-2
S6		R1-3
S7		D4-1-3(L)
S8	LANE	R7-1-4
S9	ROAD CLOSED	G9-20
		D4-5
		TGSI DIRECTIONAL
		TGSI KERB RAMP
		RRPM

NOTE: ALL SIGNAGE SHALL BE IN ACCORDANCE WITH AUSTRALIAN STANDARD (AS 1742.2-2009)

S10	GIVE WAY	R1-2(A)
S11	ONLY ONLY	R8-3(L)
S12		R8-2
S13	WATCH FOR	G9-57A
S14	WATCH FOR	
S15		W2-7
S16		W5-10A
	120 km/h	W8-2A
S17		R3-1
S18	ROAD AHEAD	W6-8
S19		W3-4A

SIGNAGE AND LINEMARKING PLAN

10 0 10 1:500 @ A1

ALL LENGTHS ARE IN METRES

AS CONSTRUCTED

COUNCIL REF. No. 2315/17 - 6215/12

SYMBOL LEGEND

Prop Drains
Exist Drains < 600
Exist Drains > 600
Prop Sewers < 300
Prop Sewers > 300
Exist Sewers < 300
Exist Sewers > 300
Prop Water
Prop Gas Conduit
Exist Water
Exist Gas
Exist Telstra/Optus
Exist Electricity

Prop 100mm Water Conduit
House drain
Property Inlet
Street Sign
PSM
Existing Surface Level
F.S. Level at Building Line
F.S. Level at Top of Batter
F.S. Level at Back of Lots
Top of Retaining Wall Level
F.S. Level Previous Stage
Coloured Concrete Pavement
Fill > 200mm

AMENDMENTS

VER.	DATE	REMARKS
D	28-08-2018	SIGN S19 ADDED
C	18-07-2018	SIGNS ADDED
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

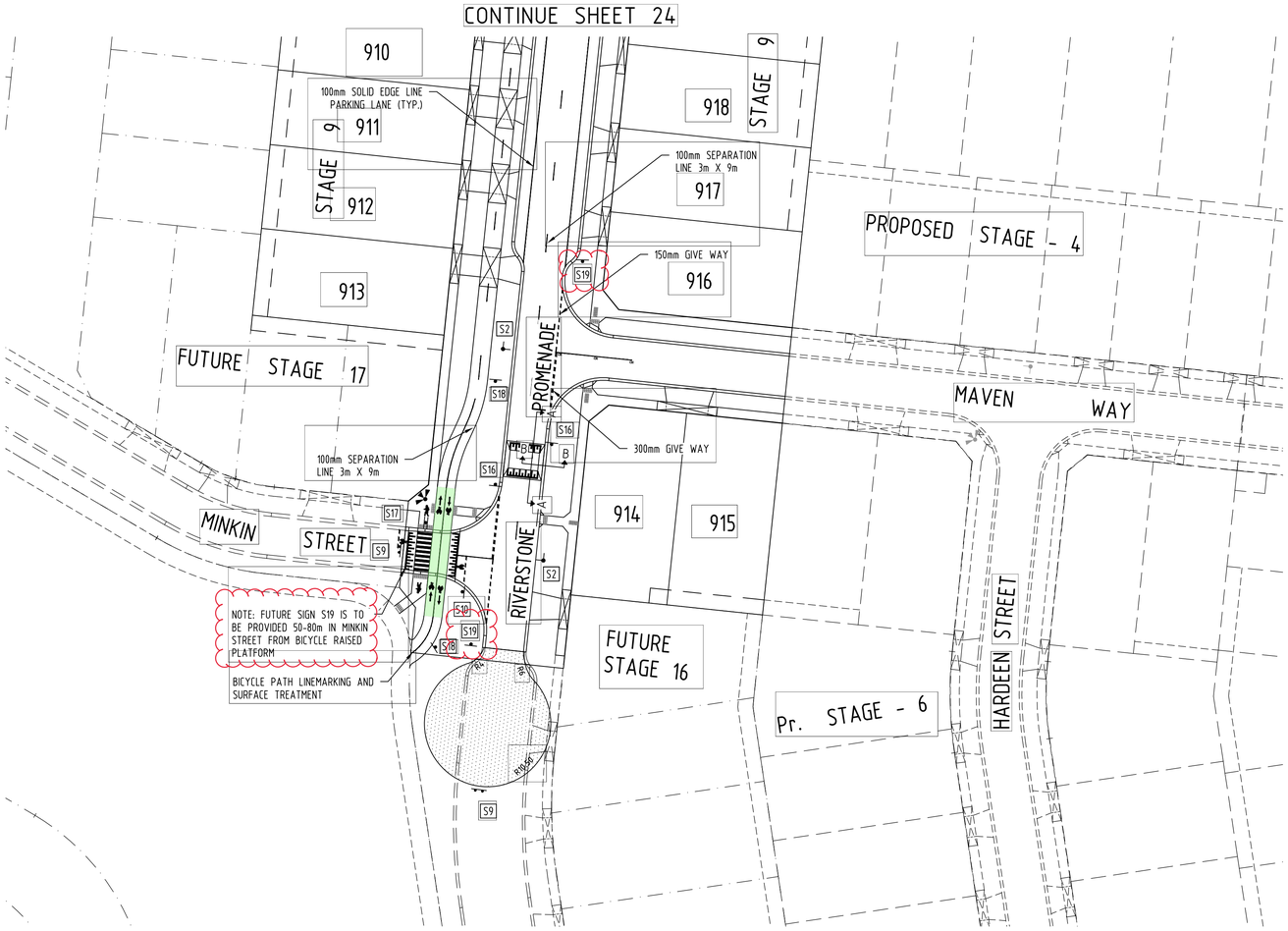
MELWAY REF.	234-G-2
SURVEY	BPD
DESIGN	L.G.
DRAWN	L.G.
CHECKED	

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/9

SCALE: AS SHOWN | DATUM: AHD | DATE: NOV' 17 | SHEET: 24 OF 25 | D



WARNING

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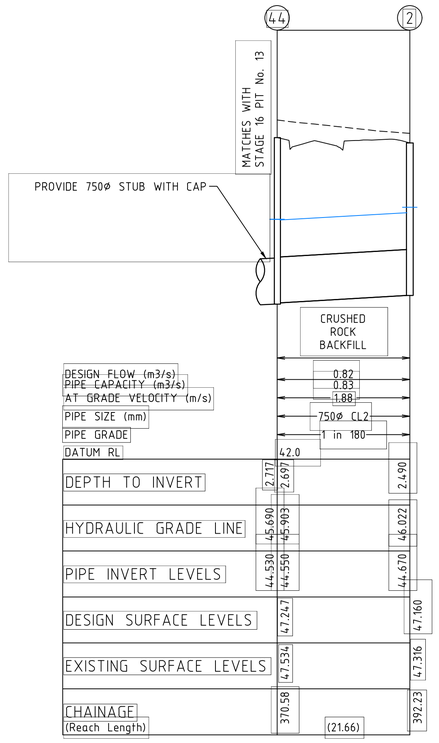
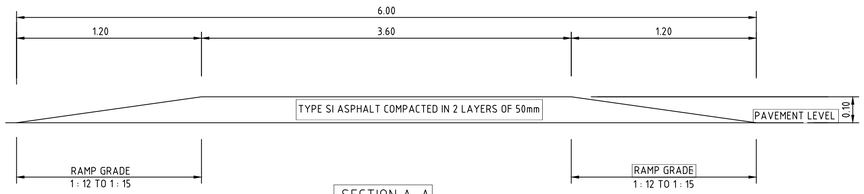
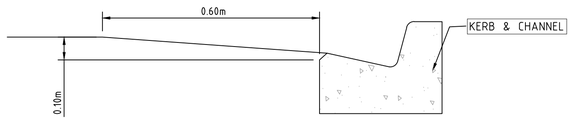


V 1:50
H 1:500
ALL LENGTHS ARE IN METRES
A1



SECTION A-A

TYPICAL SECTION MARKED SHEET 3



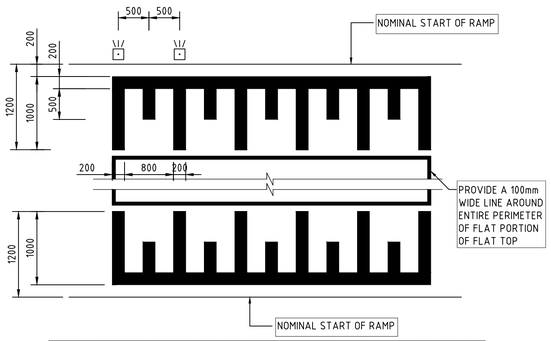
SECTION B-B

TYPICAL SECTION MARKED SHEET 3

SETOUT DETAILS FOR RAISED PAVEMENT

NOT TO SCALE

NOTE: TYPE SI ASPHALT TO BE COMPACTED IN 2 LAYERS OF 50mm.



LINE MARKING FOR RAISED PAVEMENTS

NOT TO SCALE

COUNCIL REF. No. 2315/17 - 6215/12

SYMBOL LEGEND

Prop Drains
Exist Drains < 600
Exist Drains > 600
Prop Sewers < 300
Prop Sewers > 300
Exist Sewers < 300
Exist Sewers > 300
Prop Water
Prop Gas Conduit
Exist Water
Exist Gas
Exist Telstra/Optus
Exist Electricity

Prop 100mm Water Conduit
House drain
Property Inlet
Street Sign
PSM
Existing Surface Level
F.S. Level at Building Line
F.S. Level at Top of Batter
F.S. Level at Back of Lots
Top of Retaining Wall Level
F.S. Level Previous Stage
Coloured Concrete Pavement
Fill > 200mm

AMENDMENTS

VER.	DATE	REMARKS
D	28-08-2018	ADVANCED TRAFFIC CALMING SIGN REVISED
C	18-07-2018	SIGNS ADDED
B	07-05-2018	MINKIN STREET INTERSECTION
A	23-04-2018	ISSUED FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 Cato Street
Hawthorn East, 3123
Telephone 8823 2300
Fax no. 8823 2310

MELWAY REF. 234-G-2
SURVEY BPD
DESIGN L.G.
DRAWN L.G.
CHECKED

RIVERDALE VILLAGE
STAGE 9

MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/9

SCALE AS SHOWN | DATUM AHD | DATE NOV' 17 | SHEET 25 OF 25 | D

AS CONSTRUCTED