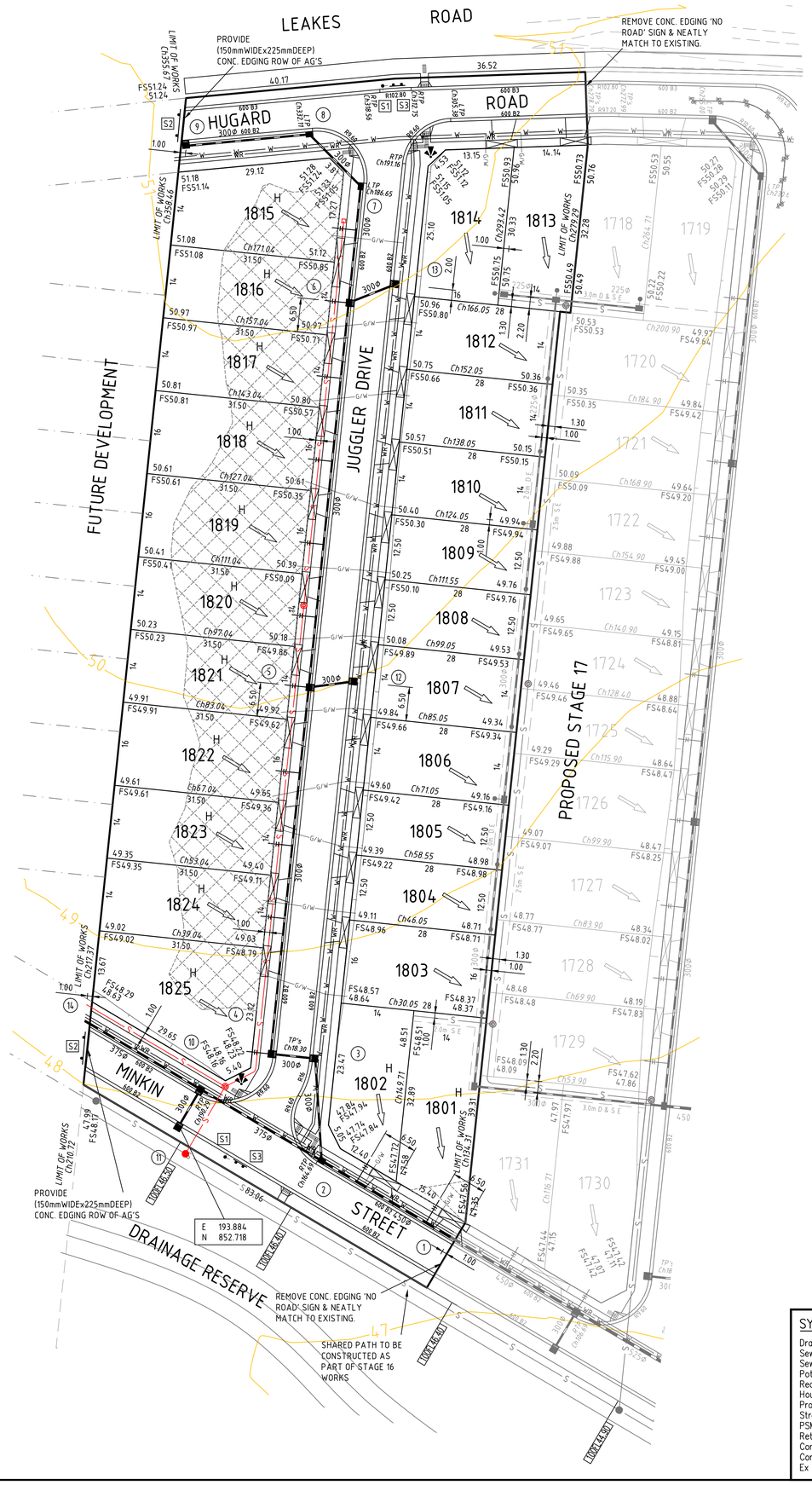


ATTENTION TO CONTRACTOR

1. **IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.**
2. Contractor to ensure that the site is pegged by a licenced surveyor and or set out checked by a licenced surveyor prior to underground infrastructure being installed.
3. Where concrete works abut a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

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

LAYOUT PLAN

0 5 10 20 1:500

ALL LENGTHS ARE IN METRES

LEGEND

S1 — STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SD825, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE

S2 — ROAD CLOSED — G9-20 — D4-5

S3 — D4-2-1

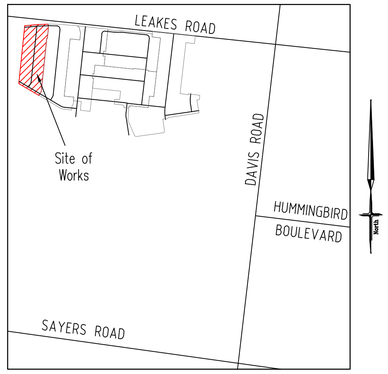
TGSI KERB RAMP

TGSI DIRECTIONAL

1-WAY RRPM (5m SPACING)

NOTE:

1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.



LOCALITY PLAN

MELWAYS: 234 - G2
NOT TO SCALE

AS CONSTRUCTED

DRAWING INDEX

Sheet No.	Version	Description
1	A	LAYOUT PLAN, LOCALITY PLAN & SERVICE OFFSETS TABLE
2	A	GENERAL NOTES, PAVEMENT COMPOSITIONS & TYPICAL CROSS SECTIONS
3	A	ROAD LONGITUDINAL SECTION & CROSS SECTIONS - MINKIN STREET
4	A	ROAD LONGITUDINAL SECTION & CROSS SECTIONS - HUGARD ROAD
5	A	ROAD LONGITUDINAL SECTION - JUGGLER DRIVE
6	A	ROAD CROSS SECTIONS - JUGGLER DRIVE
7	A	INTERSECTION DETAILS
8	A	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE

SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	ROAD RESERVE	POTABLE WATER		NON-POTABLE WATER		GAS		ELECTRICITY				TELECOMUNICATIONS		BOK	
								POLE		U/G CABLE					
		SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	SIDE
JUGGLER DRIVE	16m	E	3.20	E	2.70	E	2.20		1.00*	W	2.60	W	1.80	4.05 W	4.35 E
MINKIN STREET	14.5m	N	3.20	N	2.70	N	2.20		1.00*	S	1.05	S	0.40	2.55 S	4.35 N
HUGARD ROAD	14m	S	2.85	S	2.25	S	1.75		1.00*	N	3.95	N	3.35	5.40 S	1.80 N

1. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRAWINGS.
2. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH.
3. * DENOTES OFFSET FROM BACK OF KERB.

Council Ref No.-

SYMBOL LEGEND

Drains (Prop / Exist)
Sewer < 300
Sewer > 300
Potable Water
Recycled Water
House Drain
Property Inlet
Street Sign
PSM
Retaining Wall
Conduits 50mm
Conduits 100mm
Ex Gas/Elect/Tel

Exist Surface Level 28.57
Prop Surface Level FS28.57
Prop Top Batter Level TB28.57
Prop Toe Batter Level TOE28.57
Prop Top Retaining Wall Level TW28.57

Fill > 150mm

Cut > 150mm

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 M.A.
DRAWN M.A.
CHECKED

RIVERDALE VILLAGE STAGE 18

LAYOUT PLAN,
LOCALITY PLAN & SERVICE OFFSETS TABLE

MUNICIPALITY WYNDHAM

REFERENCE 8554 E/18

SCALE AS SHOWN | DATUM AHD | DATE MAY '17 | SHEET 1 OF 8 | A

GENERAL NOTES

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH WYNDHAM CITY COUNCIL 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 THUS 31'H' ARE TO BE PROVIDED WITH A 100mm. DIA. HOUSE DRAIN PLACED 6.00m 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). 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 SERVICES OR HIS REPRESENTATIVE.

10. AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS. REFER TO COUNCIL STANDARD DGN. SD7-1A & SD7-2. AGRICULTURAL DRAINS TO BE CONNECTED TO UNDERGROUND DRAINAGE VIA PITS.

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 PRIOR TO COMMENCEMENT OF WORKS.

12. BATTERS SHALL BE IN 1 IN 6 FOR CUT AND FILL UNLESS OTHERWISE SHOWN. IF OPEN DRAIN DEPTH OF OPEN CUT EXCEEDS 1.0m THEN A FENCE MUST BE INSTALLED AROUND THE OPEN DRAIN.

13. (i) ROAD CONTRACTOR :-
(ii) LENGTH OF ROAD :- 364 Ln m
(iii) LENGTH OF DRAINAGE :- 343 Ln m

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. ALL CLEAN FILL REMOVED FROM SITE IS TO BE TAKEN TO WESTS ROAD RESERVE REFUSE DISPOSAL FACILITY UNLESS OTHERWISE APPROVED IN WRITING BY THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.

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 FRONT TO REAR OR REAR TO FRONT.

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 AND TO BE CONSTRUCTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANADRD DRAWINGS.

27. B2 PROFILE KERB AND CHANNEL TO BE CONSTRUCTED IN ALL STREET UNLESS OTHERWISE SHOWN.

28. 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)

29. LEVELS SHOWN THUS: 21.21 - EXISTING NATURAL SURFACE
TB21.21 - F.S. LEVEL AT TOP OF BATTER
FS21.21 - F.S. LEVEL AT BUILDING LINE

30. 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.

31. 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 006.

32. CONCRETE BIN AREAS TO BE 125mm THICK 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 WCC STANDARD DRAWING No SD2-1.

33. 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.

34. 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).

35. 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.

36. 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.

37. 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.

38. 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.

39. 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).

40. THE CONTRACTOR IS TO INSTALL BLUE RRPM'S ON THE ROAD CENTRLINE AND MARKER POSTS TO INDICATE THE LOCATION OF FIRE PLUGS OR HYDRANTS IN ACCORDANCE WITH WYNDHAM CITY COUNCIL'S STANDARD DRAWING SD11-11.

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

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

43. CONTRACTOR TO INSTALL IRRIGATION CONDUITS REFER TO IRRIGATION INFRASTRUCTURE PLAN FOR LOCATIONS AND SIZES.

44. EXISTING DAM OR WATERCOURSES TO BE EXCAVATED TO A FIRM BASE AND BACKFILLED TO LEVEL 1 AS SPECIFIED. DEVELOPER'S CONSULTANT TO BE NOTIFIED WHEN THE DAM OR WATERCOURSES ARE EXCAVATED TO A FIRM BASE. NO FILLING IS TO BE PLACED PRIOR TO DAMS BEING INSPECTED AND LEVELS TAKEN. BACKFILLING IS TO BE CARRIED OUT TO THE SATISFACTION OF THE DIRECTOR ENGINEERING SERVICES OR HIS REPRESENTATIVE.

45. COORDINATES SHOWN ON THE DRAWINGS REFER TO SUBDIVISION COORDINATES.

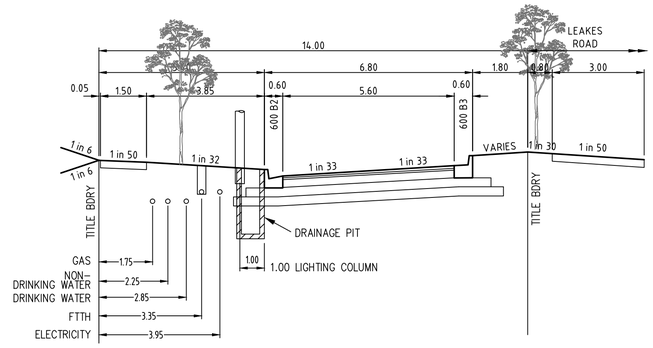
46. ALL PRAM CROSSINGS ARE TO BE FLUSHED TO THE ROAD PAVEMENT SURFACE TO ALLOW A SMOOTH TRANSITION BETWEEN CROSSING AND THE ROAD PAVEMENT FOR DISABLED USERS.

47. TOP CLAYEY SILT IS NOT SUITABLE FOR SUB GRADE AND SHOULD BE STRIPPED FROM SITE.

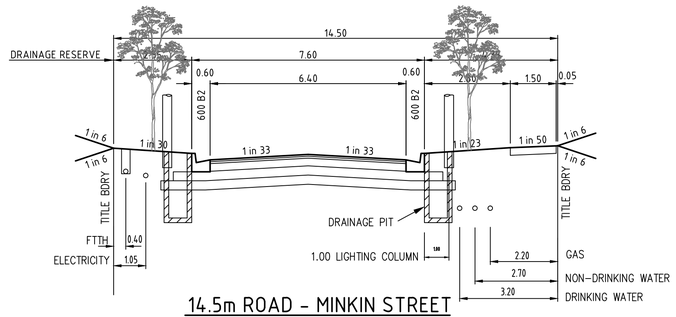
48. MINKIN STREET, JUGGLER DRIVE & HUGARD ROAD PAVEMENT TO CONSIST OF:

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 PRIME & SAMI SEAL .
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 F.C.R. 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 WITH A PERCENTAGE SWELL OF ≤ 1.5% AND PERMEABILITY OF ≤ $1x10^{-9}$ m/sec.

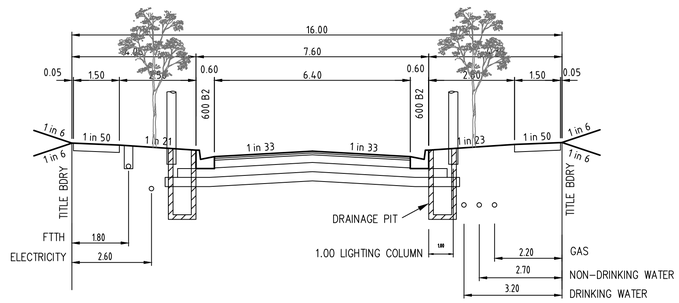
TOTAL PAVEMENT DEPTH 530mm



14m ROAD - HUGARD ROAD



14.5m ROAD - MINKIN STREET



16m ROAD - JUGGLER DRIVE

TYPICAL CROSS SECTIONS

NOT TO SCALE

AS CONSTRUCTED

AMENDMENTS			
-	-	-	
VER.	DATE	REMARKS	

breese pitt dixon pty. ltd.
land surveyors civil engineers

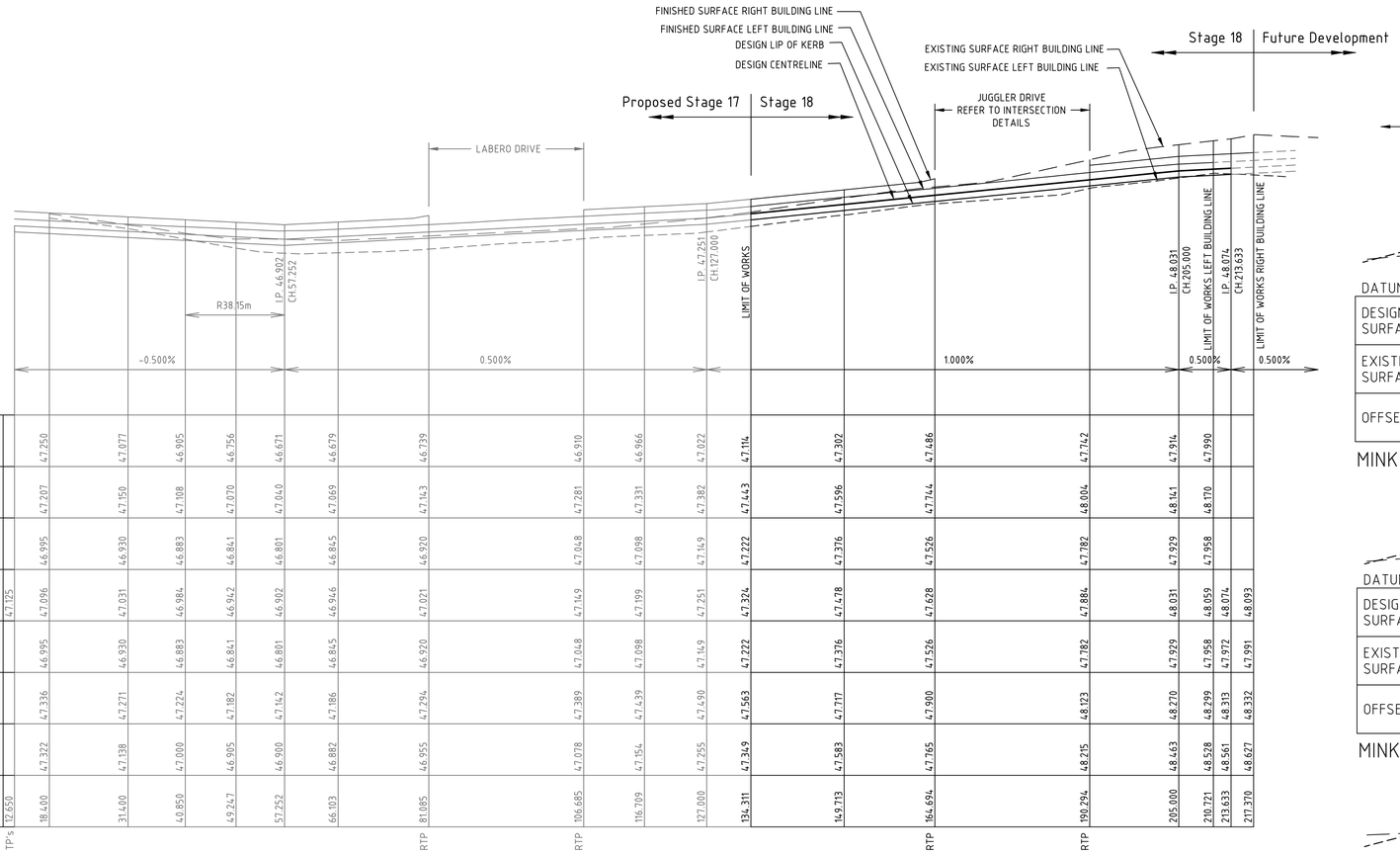
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 234 G-2
SURVEY TAYLORS
DESIGN M.A.
DRAWN M.A.
CHECKED

RIVERDALE VILLAGE
STAGE 18
GENERAL NOTES, PAVEMENT COMPOSITIONS & TYPICAL CROSS SECTIONS

MUNICIPALITY WYNDHAM
REFERENCE 8554 E/18

SCALE AS SHOWN | DATUM AHD | DATE MAY '17 | SHEET 2 OF 8 | A

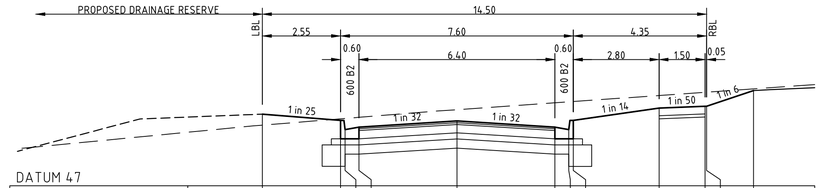


DATUM 44

EXISTING SURFACE LEFT BUILDING LINE		47.250	47.077	46.905	46.756	46.671	46.679	46.739	46.910	46.966	47.022	47.114	47.302	47.486	47.742	47.914	47.990		
FINISHED SURFACE LEFT BUILDING LINE		47.207	47.150	47.108	47.070	47.040	47.069	47.143	47.281	47.331	47.382	47.443	47.596	47.744	48.004	48.141	48.170		
LEFT DESIGN LIP OF KERB		46.995	46.930	46.883	46.841	46.801	46.845	46.920	47.048	47.098	47.149	47.222	47.376	47.526	47.782	47.929	47.958		
DESIGN CL SURFACE LEVEL	47.125	47.096	47.031	46.984	46.942	46.902	46.946	47.021	47.149	47.199	47.251	47.324	47.478	47.628	47.884	48.031	48.059	48.074	48.093
RIGHT DESIGN LIP OF KERB		46.995	46.930	46.883	46.841	46.801	46.845	46.920	47.048	47.098	47.149	47.222	47.376	47.526	47.782	47.929	47.958	47.972	47.991
FINISHED SURFACE RIGHT BUILDING LINE		47.336	47.271	47.224	47.182	47.142	47.186	47.294	47.389	47.439	47.490	47.563	47.717	47.900	48.123	48.270	48.299	48.313	48.332
EXISTING SURFACE RIGHT BUILDING LINE		47.322	47.138	47.000	46.905	46.900	46.882	46.955	47.078	47.154	47.255	47.349	47.583	47.765	48.215	48.463	48.528	48.561	48.627
CHAINAGE	12.650	18.400	31.400	40.850	49.247	57.252	66.103	81.085	106.685	116.709	127.000	134.311	149.713	164.694	190.294	205.000	210.721	213.633	217.370
	TP's							RTP	RTP					RTP	RTP				

MINKIN STREET LONGITUDINAL SECTION

SCALE: H 1:500, V 1:50

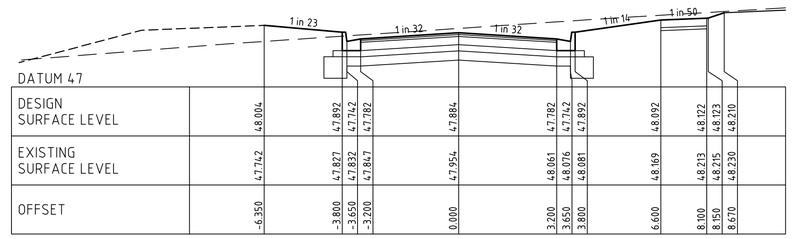


DATUM 47

DESIGN SURFACE LEVEL	48.170	48.068	47.918	47.958	48.059	47.958	47.918	48.068	48.268	48.298	48.299	48.554
EXISTING SURFACE LEVEL	47.990	48.093	48.099	48.117	48.243	48.355	48.370	48.376	48.474	48.526	48.528	48.581
OFFSET	-6.350	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	9.682

MINKIN STREET

CH 210.721 (LIMIT OF WORKS LEFT BULDING LINE)

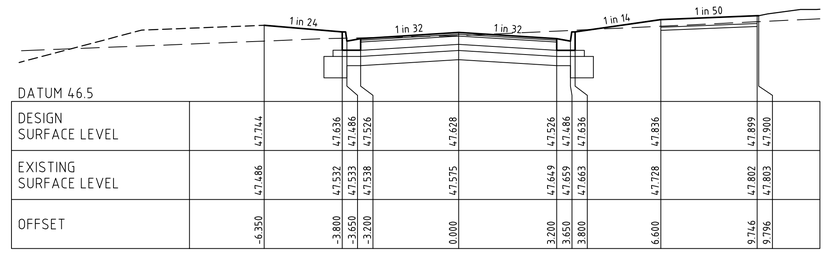


DATUM 47

DESIGN SURFACE LEVEL	48.004	47.892	47.742	47.782	47.884	47.782	47.742	47.892	48.092	48.122	48.123	48.210
EXISTING SURFACE LEVEL	47.742	47.827	47.832	47.847	47.954	48.061	48.076	48.081	48.169	48.213	48.215	48.230
OFFSET	-6.350	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	8.670

MINKIN STREET

RTP CH 190.294

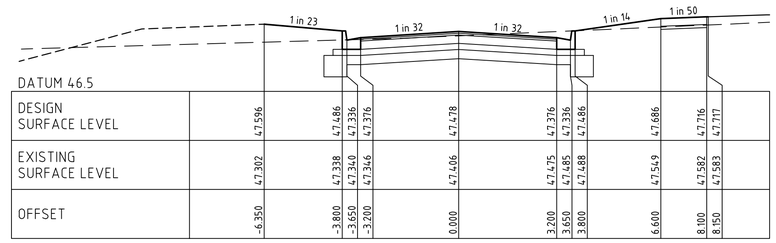


DATUM 46.5

DESIGN SURFACE LEVEL	47.744	47.636	47.486	47.526	47.628	47.526	47.486	47.636	47.836	47.899	47.900
EXISTING SURFACE LEVEL	47.486	47.532	47.533	47.538	47.575	47.649	47.659	47.663	47.728	47.802	47.803
OFFSET	-6.350	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	9.746	9.796

MINKIN STREET

RTP CH 164.694

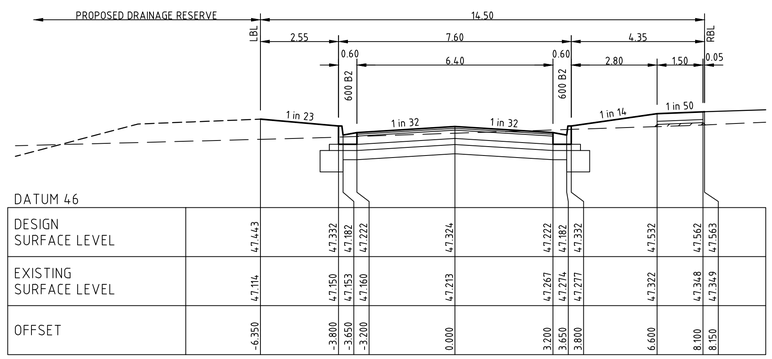


DATUM 46.5

DESIGN SURFACE LEVEL	47.596	47.486	47.336	47.376	47.478	47.376	47.336	47.486	47.686	47.716	47.717
EXISTING SURFACE LEVEL	47.302	47.338	47.340	47.346	47.406	47.475	47.485	47.488	47.549	47.582	47.583
OFFSET	-6.350	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150

MINKIN STREET

CH 149.713



DATUM 46

DESIGN SURFACE LEVEL	47.443	47.332	47.182	47.222	47.324	47.222	47.182	47.332	47.532	47.562	47.563
EXISTING SURFACE LEVEL	47.114	47.150	47.153	47.160	47.213	47.267	47.274	47.277	47.322	47.348	47.349
OFFSET	-6.350	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150

MINKIN STREET

CH 134.311 (LIMIT OF WORKS)

MINKIN STREET CROSS SECTIONS

SCALE: H 1:100, V 1:50

AS CONSTRUCTED

0 1 2 4 1:100
0 0.5 1 2 1:50
0 5 10 20 1:500
0 0.5 1 2 1:50
ALL LENGTHS ARE IN METRES

Council Ref No.-

AMENDMENTS

VER.	DATE	REMARKS
-	-	-

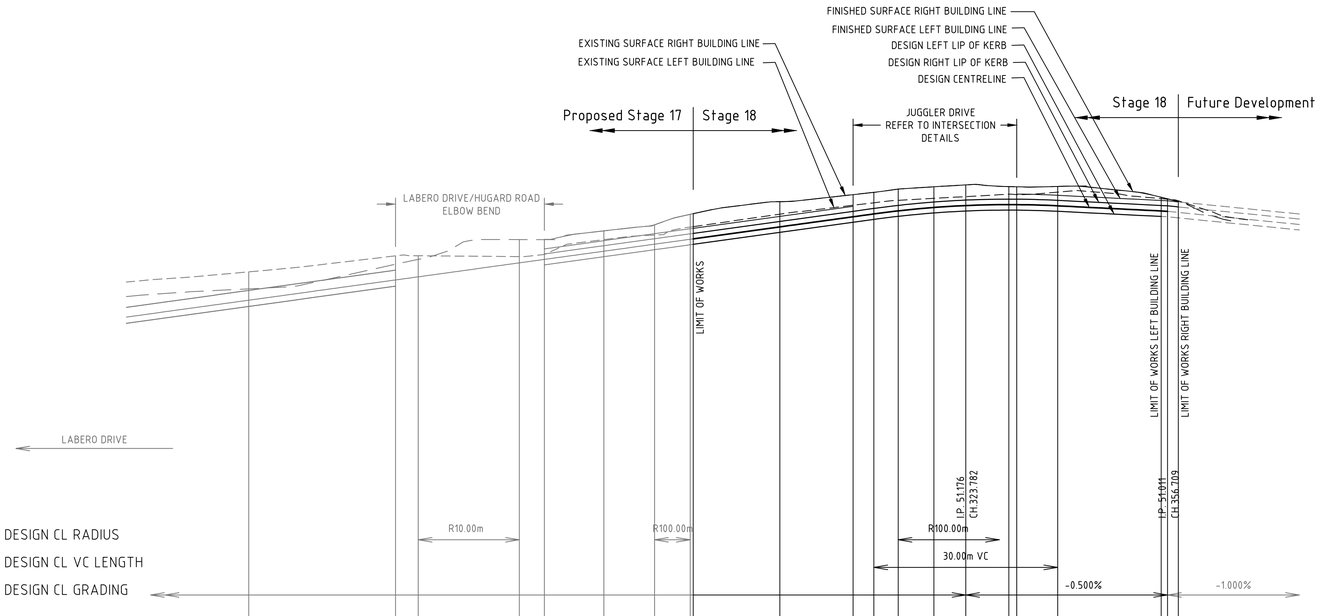
breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

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

RIVERDALE VILLAGE
STAGE 18
ROAD LONGITUDINAL SECTION & CROSS SECTIONS
MINKIN STREET

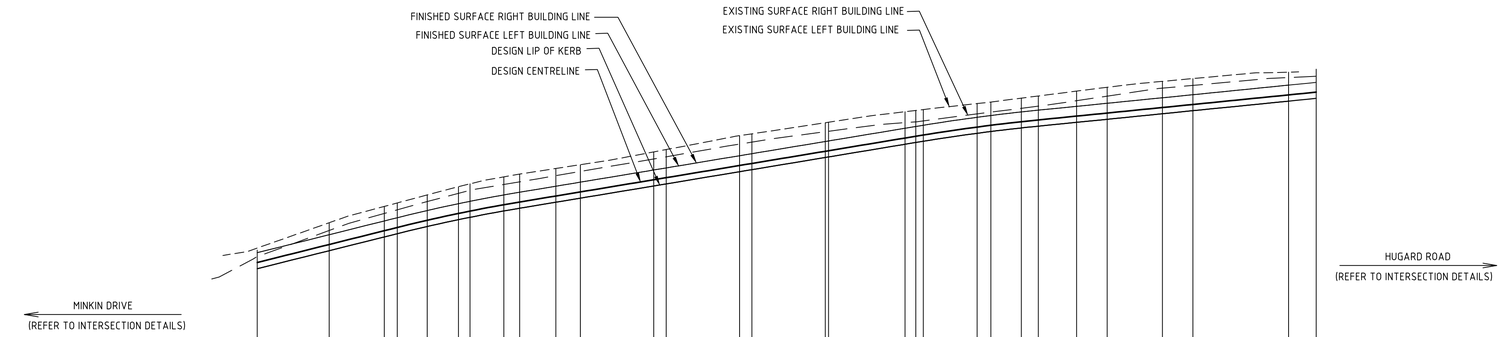
MUNICIPALITY WYNDHAM
REFERENCE 8554 E/18

SCALE AS SHOWN | DATUM AHD | DATE MAY '17 | SHEET 3 OF 8 | A


FINISHED SURFACE RIGHT BUILDING LINE
FINISHED SURFACE LEFT BUILDING LINE
DESIGN LEFT LIP OF KERB
DESIGN RIGHT LIP OF KERB
DESIGN CENTRELINE
EXISTING SURFACE RIGHT BUILDING LINE
EXISTING SURFACE LEFT BUILDING LINE
Proposed Stage 17
Stage 18
JUGGLER DRIVE
REFER TO INTERSECTION DETAILS
Stage 18
Future Development
LABERO DRIVE/HUGARD ROAD ELBOW BEND
LIMIT OF WORKS
LIMIT OF WORKS LEFT BUILDING LINE
LIMIT OF WORKS RIGHT BUILDING LINE
LABERO DRIVE
IP 51.176
CH 323.782
IP 51.011
CH 356.709
DESIGN CL RADIUS
DESIGN CL VC LENGTH
DESIGN CL GRADING
R10.00m
R100.00m
R100.00m
30.00m VC
-0.500%
-1.000%

DATUM 44

| | | |



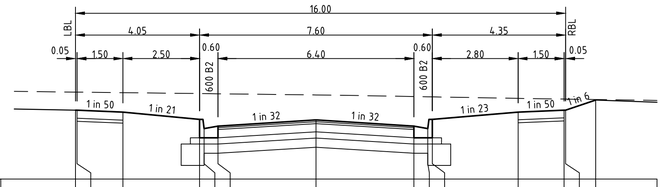
DESIGN CL RADIUS

DESIGN CL VC LENGTH

DESIGN CL GRADING

DATUM 44

| | | |

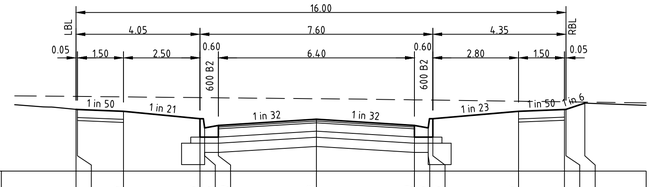


DATUM 48.5

DESIGN SURFACE LEVEL	49.623	49.622	49.592	49.472	49.322	49.362	49.464	49.362	49.322	49.472	49.592	49.622	49.623	49.787
EXISTING SURFACE LEVEL	49.918	49.918	49.909	49.894	49.893	49.891	49.872	49.846	49.842	49.840	49.816	49.804	49.804	49.797
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	9.134

JUGGLER DRIVE

CH 83.036

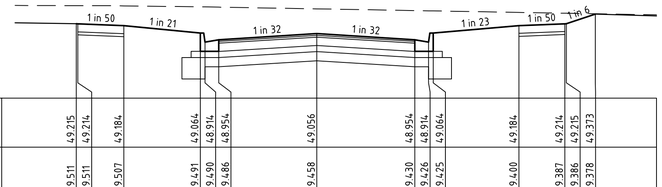


DATUM 50

DESIGN SURFACE LEVEL	51.008	51.007	50.977	50.857	50.707	50.747	50.848	50.747	50.707	50.857	50.977	51.007	51.008	51.110
EXISTING SURFACE LEVEL	51.220	51.219	51.212	51.200	51.200	51.197	51.182	51.164	51.161	51.160	51.142	51.132	51.132	51.127
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	8.764

JUGGLER DRIVE

LTPCH 186.653

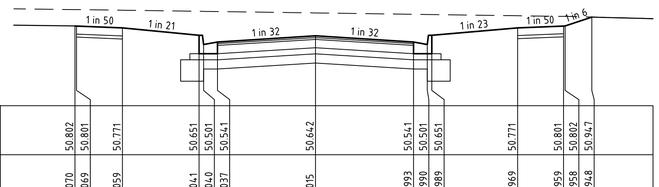


DATUM 48

DESIGN SURFACE LEVEL	49.215	49.214	49.184	49.064	48.914	48.954	49.056	48.954	48.914	49.064	49.184	49.214	49.215	49.313
EXISTING SURFACE LEVEL	49.511	49.511	49.507	49.491	49.490	49.486	49.458	49.430	49.426	49.425	49.400	49.387	49.386	49.378
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	9.093

JUGGLER DRIVE

CH 58.551

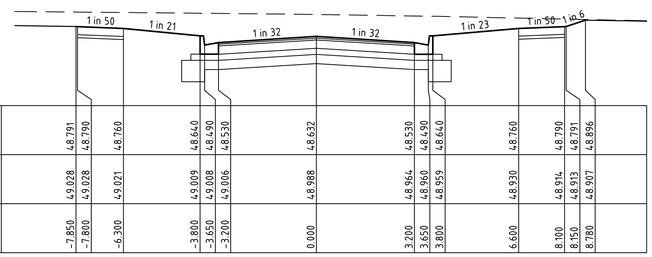


DATUM 49.5

DESIGN SURFACE LEVEL	50.802	50.801	50.771	50.651	50.501	50.541	50.642	50.541	50.501	50.651	50.771	50.801	50.802	50.947
EXISTING SURFACE LEVEL	51.070	51.069	51.059	51.041	51.040	51.037	51.015	50.993	50.990	50.989	50.969	50.959	50.958	50.948
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	9.021

JUGGLER DRIVE

CH 166.051

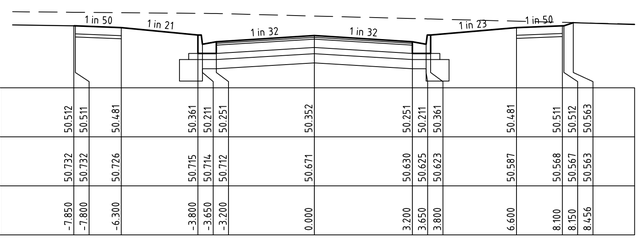


DATUM 47.5

DESIGN SURFACE LEVEL	48.791	48.790	48.760	48.640	48.490	48.530	48.632	48.530	48.490	48.640	48.760	48.790	48.791	48.896
EXISTING SURFACE LEVEL	49.028	49.028	49.021	49.009	49.008	49.006	48.988	48.964	48.960	48.959	48.930	48.914	48.913	48.907
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	8.780

JUGGLER DRIVE

CH 39.036

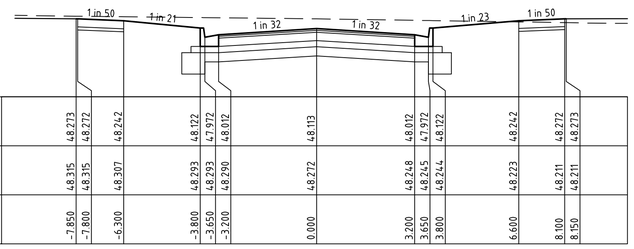


DATUM 49.5

DESIGN SURFACE LEVEL	50.512	50.511	50.481	50.361	50.211	50.251	50.352	50.251	50.211	50.361	50.481	50.511	50.512	50.563
EXISTING SURFACE LEVEL	50.732	50.732	50.726	50.715	50.714	50.712	50.671	50.630	50.625	50.623	50.587	50.568	50.567	50.563
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	8.456

JUGGLER DRIVE

CH 138.051

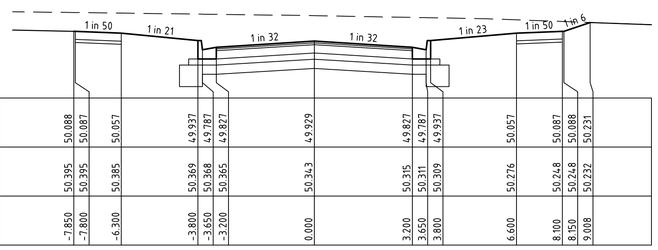


DATUM 47

DESIGN SURFACE LEVEL	48.273	48.272	48.242	48.122	47.972	48.012	48.113	48.012	47.972	48.122	48.242	48.272	48.273	
EXISTING SURFACE LEVEL	48.315	48.315	48.307	48.293	48.293	48.290	48.272	48.248	48.245	48.244	48.223	48.211	48.211	
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	

JUGGLER DRIVE

TP's CH 18.303



DATUM 49

DESIGN SURFACE LEVEL	50.088	50.087	50.057	49.937	49.787	49.827	49.929	49.827	49.787	49.937	50.057	50.087	50.088	50.231
EXISTING SURFACE LEVEL	50.395	50.395	50.385	50.369	50.368	50.365	50.343	50.315	50.311	50.309	50.276	50.248	50.248	50.232
OFFSET	-7.850	-7.800	-6.300	-3.800	-3.650	-3.200	0.000	3.200	3.650	3.800	6.600	8.100	8.150	9.008

JUGGLER DRIVE

CH 111.036

JUGGLER DRIVE CROSS SECTIONS

SCALE: H 1:100, V 1:50

AS CONSTRUCTED

CRUSHED ROCK BACKFILL

0 1 2 4 1:100
0 0.5 1 2 1:50
0 5 10 20 1:500
0 0.5 1 2 1:50
ALL LENGTHS ARE IN METRES

Council Ref No.-

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	M.A.
DRAWN	M.A.
CHECKED	

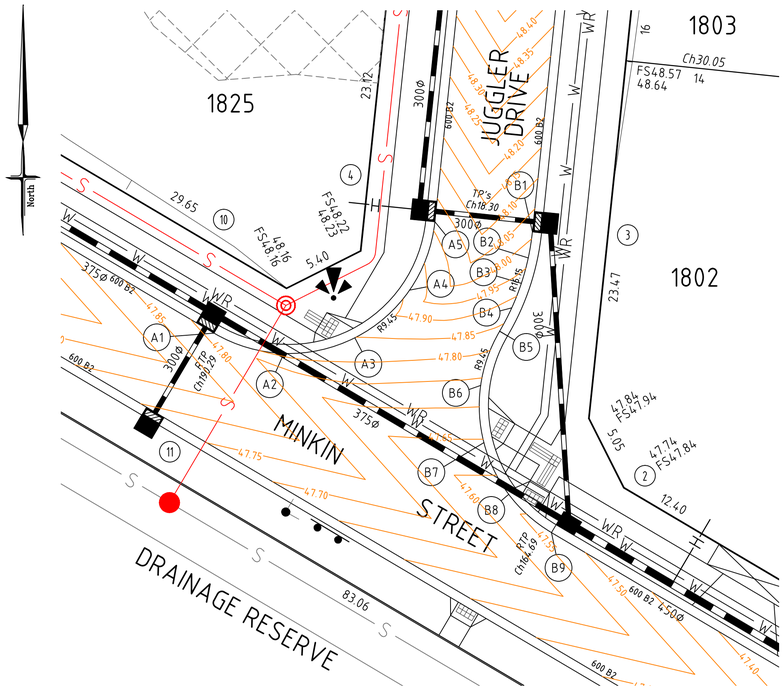
RIVERDALE VILLAGE
STAGE 18
ROAD CROSS SECTIONS
JUGGLER DRIVE

MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/18

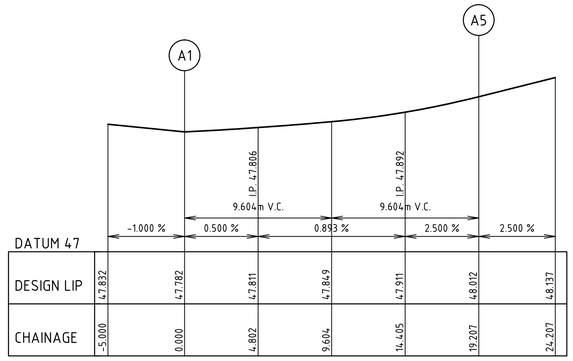
SCALE AS SHOWN | DATUM AHD | DATE MAY '17

SHEET 6 OF 8 | A

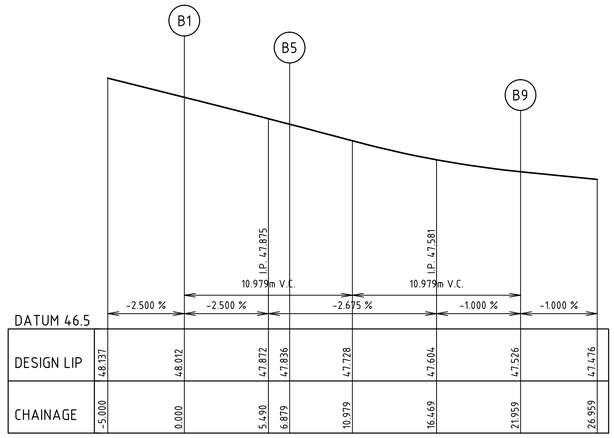


MINKIN STREET/JUGGLER DRIVE INTERSECTION DETAIL

SCALE 1:200 AT A1 SIZE



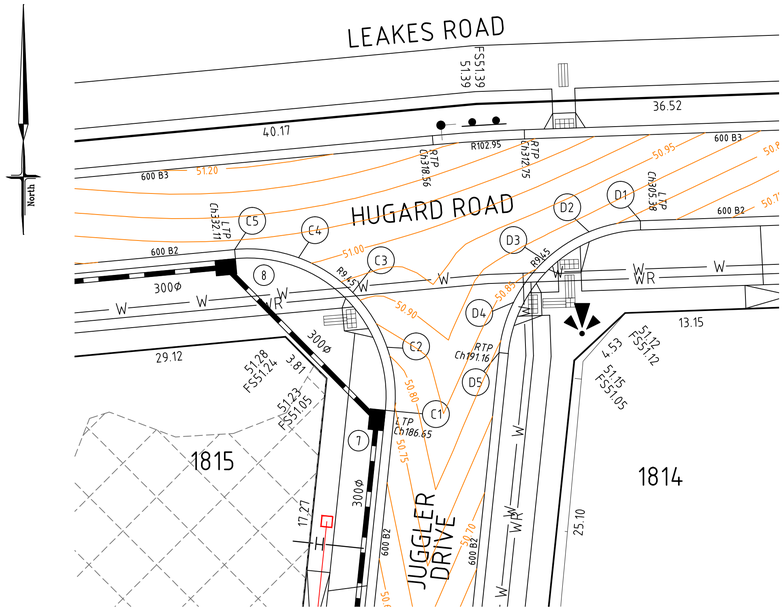
LIP LINE A



LIP LINE B

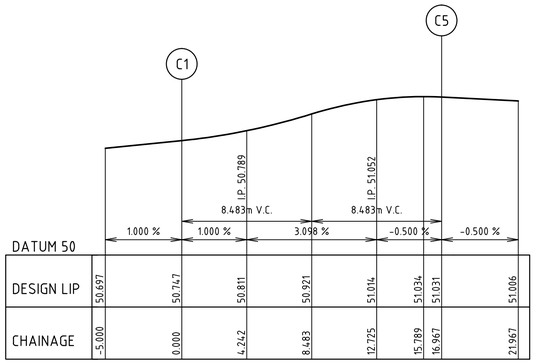
SETOUT TABLE LIP A			
Point	Easting	Northing	RL
A1	198.025	858.401	47.782
A2	202.588	857.072	47.811
A3	207.228	858.094	47.849
A4	210.811	861.217	47.911
A5	212.456	865.674	48.012

SETOUT TABLE LIP B			
Point	Easting	Northing	RL
B1	218.822	865.012	48.012
B2	218.553	863.315	47.969
B3	218.103	861.656	47.925
B4	217.477	860.055	47.881
B5	216.684	858.530	47.836
B6	215.445	854.995	47.737
B7	215.653	851.255	47.645
B8	217.276	847.879	47.575
B9	220.067	845.381	47.526

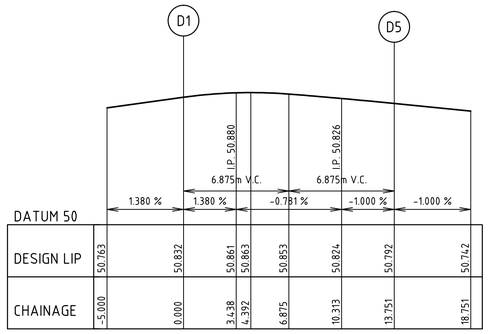


JUGGLER DRIVE/HUGARD ROAD INTERSECTION DETAIL

SCALE 1:200 AT A1 SIZE



LIP LINE C



LIP LINE D

SETOUT TABLE LIP C			
Point	Easting	Northing	RL
C1	229.867	1033.122	50.747
C2	229.375	1037.300	50.811
C3	227.143	1040.867	50.921
C4	223.600	1043.136	51.014
C5	219.427	1043.673	51.031

SETOUT TABLE LIP D			
Point	Easting	Northing	RL
D1	245.914	1045.548	50.832
D2	242.572	1044.822	50.861
D3	239.697	1042.971	50.853
D4	237.653	1040.230	50.824
D5	236.699	1036.947	50.792

LIP PROFILES

SCALE 1:200 AT A1 SIZE

0 2 4 8 1:200

0 0.2 0.4 0.8 1:20

ALL LENGTHS ARE IN METRES

AS CONSTRUCTED

NOTES:

1. ALL KERB AND CHANNEL TO BE AS SPECIFIED.
2. ALL CHAINAGES ARE SQUARE TO CENTERLINE OF ROAD PAVEMENT.
3. ALL SETOUT TO LIP OF KERB UNLESS OTHERWISE SHOWN.
4. KERB LEVELS ARE TO LIP OF KERB.
5. CONDUITS NOT SHOWN FOR CLARITY.

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.

SYMBOL LEGEND

Drains (Prop / Exist)
Sewer < 300
Sewer > 300
Potable Water
Recycled Water
House Drain
Property Inlet
Street Sign
PSM
Retaining Wall
Conduits 50mm
Conduits 100mm
Ex Gas/Elect/Tel

Exist Surface Level 28.57
Prop Surface Level FS28.57
Prop Top Batter Level TB28.57
Prop Toe Batter Level TOE28.57
Prop Top Retaining Wall Level TW28.57

Fill > 150mm
Cut > 150mm

VER.	DATE	REMARKS
-	-	-

AMENDMENTS

Council Ref No.-

breese pitt dixon pty. ltd.
land surveyors civil engineers
1/19 cato street
hawthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

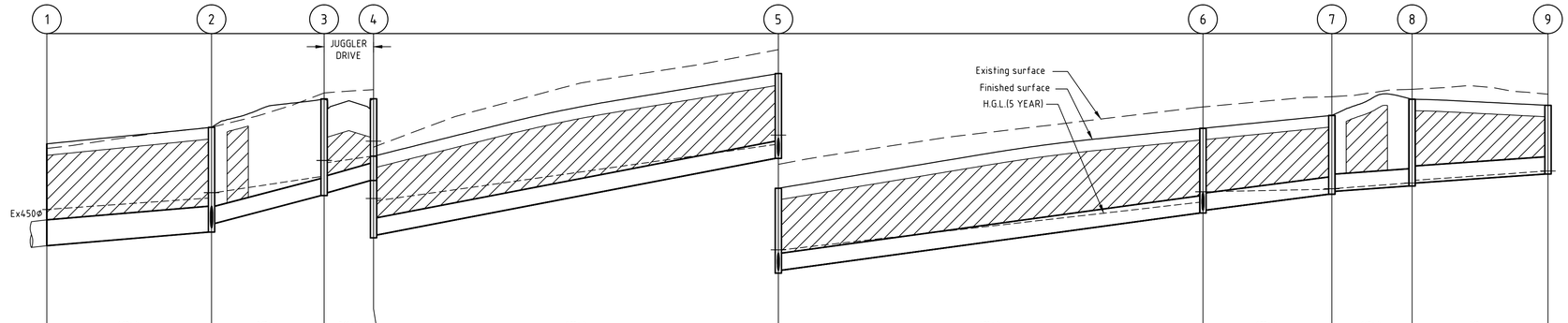
MELWAY REF.	234 G-2
SURVEY	BPD
DESIGN	M.A.
DRAWN	M.A.
CHECKED	

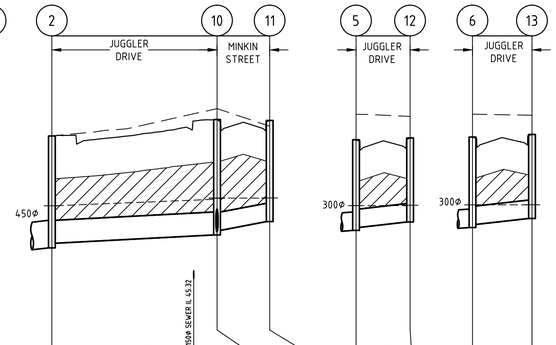
RIVERDALE VILLAGE
STAGE 18
INTERSECTION DETAILS

MUNICIPALITY: WYNDHAM

REFERENCE: 8554 E/18

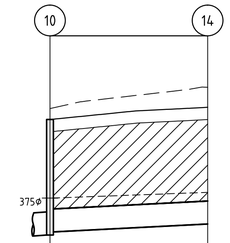
SCALE AS SHOWN | DATUM AHD | DATE MAY '17 | SHEET 7 OF 8 | A





	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9
VELOCITY (m/sec)	1.63m/s	2.15m/s	2.16m/s	1.88m/s	1.59m/s	1.52m/s	1.12m/s	1.12m/s
DESIGN (m3/s)	0.24m3/s	0.12m3/s	0.11m3/s	0.10m3/s	0.06m3/s	0.01m3/s	0.00m3/s	0.00m3/s
CAPACITY (m3/s)	0.26m3/s	0.15m3/s	0.15m3/s	0.13m3/s	0.11m3/s	0.11m3/s	0.08m3/s	0.08m3/s
DIAMETER AND TYPE	450 RRJ	300 RRJ	300 RRJ	300 RRJ	300 RRJ	300 RRJ	300 RRJ	300 RRJ
GRADE	CLASS 4 1 in 121	CLASS 2 1 in 40.4	CLASS 4 1 in 40.3	CLASS 4 1 in 52.9	CLASS 4 1 in 74.1	CLASS 4 1 in 80.7	CLASS 2 1 in 150	CLASS 4 1 in 150
DATUM RL	42.0			43.0	45.0			
DEPTH FS TO INVERT	1.775 1.775	1.825 1.675	1.684 1.634	1.423 1.373	1.480 1.430	1.477 1.427	1.374 1.324	1.512 1.462	1.197
HGL LEVEL	46.234	46.433 46.528	46.808 47.087 47.049	47.159 47.425 47.386	48.366 48.530	49.360 49.543	49.586 49.595 49.599	49.694 49.743	49.903 49.904
INVERT	45.603 45.603	45.840 45.990	46.476 46.526	46.739 46.789	48.124 48.174	49.172 49.222	49.500 49.550	49.644 49.694	49.851
FINISHED SURFACE	47.378	47.665	48.160	48.163	49.604	50.650	50.874	51.156	51.049
NATURAL SURFACE	47.297	47.668	48.265	48.321	50.020	51.021	51.200	51.329	51.244
CHAINAGE	0.000	28.708	48.331	56.931	127.489	201.489	223.931	237.930	261.614
	L=28.708m	L=19.623m	L=8.600m	L=70.558m	L=74.000m	L=22.442m	L=13.999m	L=23.684m	

	2–10	10–11	5–12	6–13
VELOCITY (m/sec)	1.12m/s	1.77m/s	1.37m/s	1.37m/s
DESIGN (m3/s)	0.11m3/s	0.00m3/s	0.01m3/s	0.00m3/s
CAPACITY (m3/s)	0.12m3/s	0.12m3/s	0.10m3/s	0.10m3/s
DIAMETER AND TYPE	375 RRJ	300 RRJ	300 RRJ	300 RRJ
GRADE	CLASS 4 1 in 200	CLASS 4 1 in 60	CLASS 4 1 in 100	CLASS 4 1 in 100
DATUM RL	42.0		44.0	45.0
DEPTH FS TO INVERT	1.825 1.750	1.885 1.810	1.653	1.480 1.430	1.373	1.477 1.427	1.373
HGL LEVEL	46.433 46.528	46.632 46.653	46.653	48.366 48.530	48.530 48.535	49.360 49.543	49.543 49.544
INVERT	45.840 45.915	46.050 46.125	46.268	48.124 48.174	48.262	49.172 49.222	49.319
FINISHED SURFACE	47.665	47.935	47.921	49.604	49.635	50.650	50.692
NATURAL SURFACE	47.668	48.113	47.826	50.020	49.986	51.021	51.004
CHAINAGE	0.000	26.950	35.550	0.000	8.833	0.000	9.713
	L=26.950m	L=8.600m		L=8.833m		L=9.713m	



	10–14
VELOCITY (m/sec)	1.12m/s
DESIGN (m3/s)	0.11m3/s
CAPACITY (m3/s)	0.12m3/s
DIAMETER AND TYPE	375 RRJ
GRADE	CLASS 2 1 in 200
DATUM RL	42.0
DEPTH FS TO INVERT	1.885 1.835	1.905
HGL LEVEL	46.632 46.653	46.746
INVERT	46.050 46.100	46.229
FINISHED SURFACE	47.935	48.133
NATURAL SURFACE	48.113	48.461
CHAINAGE	0.000	25.736
	L=25.736m

DRAINAGE LONGITUDINAL SECTIONS

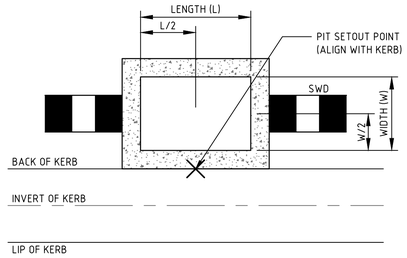
SCALE: H 1:500, V 1:50

NOTE:

CRUSHED ROCK BACKFILL

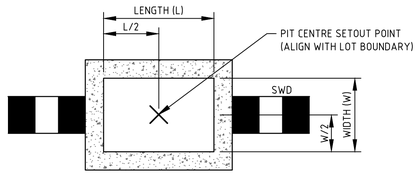
DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		
PIT No	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	FINISHED COVER RL	DEPTH	REMARKS
1	Existing End Pipe			450	45.603	Ex450	45.603	47.378	1.775	Connect to Existing End Pipe
2	Junction Pit	600	900	300	45.990	450	45.840	47.665	1.825	EDCM 607
				375	45.915					
3	Grated Side Entry Pit	600	900	300	46.526	300	46.476	48.160	1.684	EDCM 601 (B2 Kerb)
4	Grated Side Entry Pit	600	900	300	46.789	300	46.739	48.163	1.423	EDCM 601 (B2 Kerb)
5	Grated Side Entry Pit	600	900	300	48.174	300	48.124	49.604	1.480	EDCM 601 (B2 Kerb)
				300	48.174					
6	Grated Side Entry Pit	600	900	300	49.222	300	49.172	50.650	1.477	EDCM 601 (B2 Kerb)
				300	49.222					
7	Junction Pit	600	900	300	49.550	300	49.500	50.874	1.374	EDCM 607
8	Junction Pit	600	900	300	49.694	300	49.644	51.156	1.512	EDCM 607
9	Grated Side Entry Pit	600	900			300	49.851	51.049	1.197	EDCM 601 (B2 Kerb)
10	Grated Side Entry Pit	600	900	300	46.125	375	46.050	47.935	1.885	EDCM 601 (B2 Kerb)
				375	46.100					
11	Grated Side Entry Pit	600	900			300	46.268	47.921	1.653	EDCM 601 (B2 Kerb)
12	Grated Side Entry Pit	600	900			300	48.262	49.635	1.373	EDCM 601 (B2 Kerb)
13	Grated Side Entry Pit	600	900			300	49.319	50.692	1.373	EDCM 601 (B2 Kerb)
14	End Pipe					375	46.229	48.133	1.905	Cap End



TYPICAL DRAINAGE PIT SETOUT POINT IN ROAD RESERVE

NOT TO SCALE



TYPICAL DRAINAGE PIT SETOUT POINT IN EASEMENT

NOT TO SCALE

Council Ref No.-

AS CONSTRUCTED

0 5 10 20 1:500
0 0.5 1 2 1:50
ALL LENGTHS ARE IN METRES

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 M.A.
DRAWN M.A.
CHECKED

RIVERDALE VILLAGE
STAGE 18
DRAINAGE LONGITUDINAL SECTIONS
& PIT SCHEDULE

MUNICIPALITY: WYNDHAM
REFERENCE: 8554 E/18

SCALE AS SHOWN | DATUM AHD | DATE MAY '17 | SHEET 8 OF 8 | A