

Field Density Test Results

AS1289.5.7.1

Client:	Bitu-Mill	Job No:	BTU2158
Project:	Williams Walk - Stage 3 (Level 1)	Report:	1
Location:	Rockbank		

Sample No	1	2	3	4		
Date Tested	28/03/2022	28/03/2022	28/03/2022	28/03/2022		
Time Tested	AM	AM	PM	PM		

Test Location	Refer to Plan	Refer to Plan	Refer to Plan	Refer to Plan		
Level/Layer	1	1	1	1		
Layer Thickness	mm 150	150	150	150		
Test Depth	mm 125	125	125	125		
Field Wet Density	t/m ³ 1.86	1.82	1.82	1.86		
Field Moisture Content	% 23.8	25.2	26.2	22.7		
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill		

Oversize Material	WET, %	0.0	0.0	0.0	0.0	
Sieve Size	mm	19	19	19	19	
Peak Converted Wet Density	t/m ³	1.89	1.85	1.85	1.89	
Optimum Moisture Content	%	24.5	25.5	27	23.5	

Moisture Ratio	%	97	99	97	96.5	
Moisture Variation from OMC	%	-0.5	-0.5	-0.5	-0.5	
Density Ratio	%	98.5	98.5	98.5	98.5	

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0315-1 (SI01)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)



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Approved Signatory:

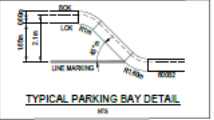
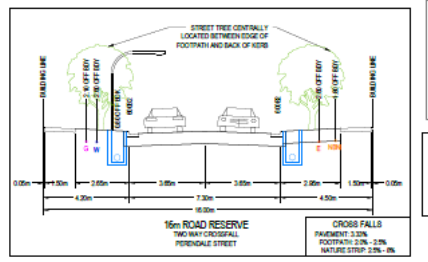
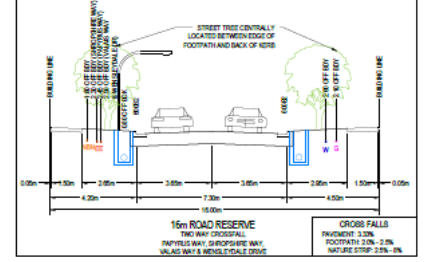
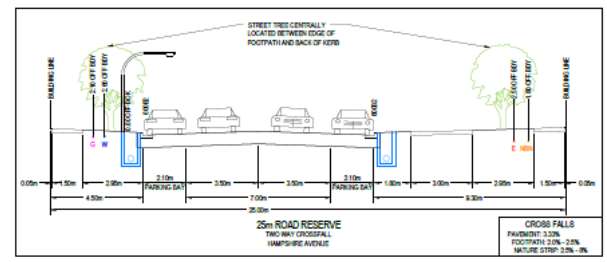
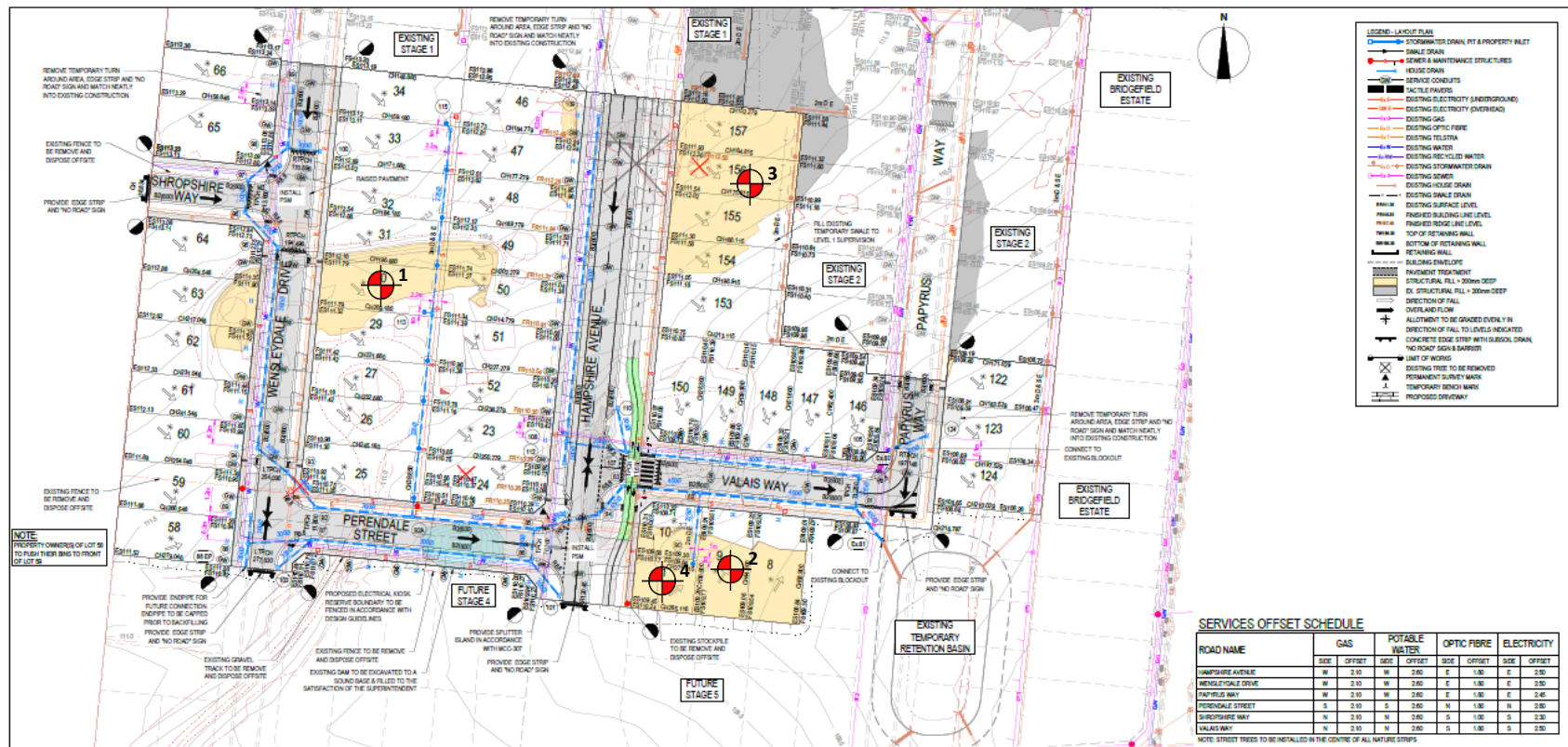


David Burns

Date: 01/04/2022



Test Location



WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The location of underground & overhead services are approximately 10m & their exact location shall be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencing work.
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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	29/02/22	ISSUED FOR CONSTRUCTION	K. MCKELVEE	T. FAUCUS	T. FAUCUS
1	11/03/22	COUNCIL COMMENTS DATES 11/03/22	K. MCKELVEE	T. FAUCUS	T. FAUCUS
2	08/03/22	ISSUED FOR APPROVAL	K. MCKELVEE	T. FAUCUS	T. FAUCUS
3	11/03/22	TENDER ISSUE	K. MCKELVEE	T. FAUCUS	T. FAUCUS



WILLIAMS WALK - STAGE 3
LAYOUT PLAN

ISSUED FOR CONSTRUCTION

SCALE	DATE	DRAWN	REVISION
1:500 @ A1		K. MCKELVEE	K. MCKELVEE
PROJECT NUMBER	PROJECT MANAGER	DATE POSTED	
M. TROULNICE	T. FAUCUS	NOVEMBER 2021	
PROJECT VALUE	DRAWN VALUE	REVISION	
180197.3	R200	0	

PROJECT:
Williams Walk – Stage 3 (Level 1)

LOCATION:
Rockbank

CLIENT:
Bitu-Mill

PROJECT No:
1120 0315-1 (SI01)

DATE:
28/03/2022

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results AS1289.5.7.1

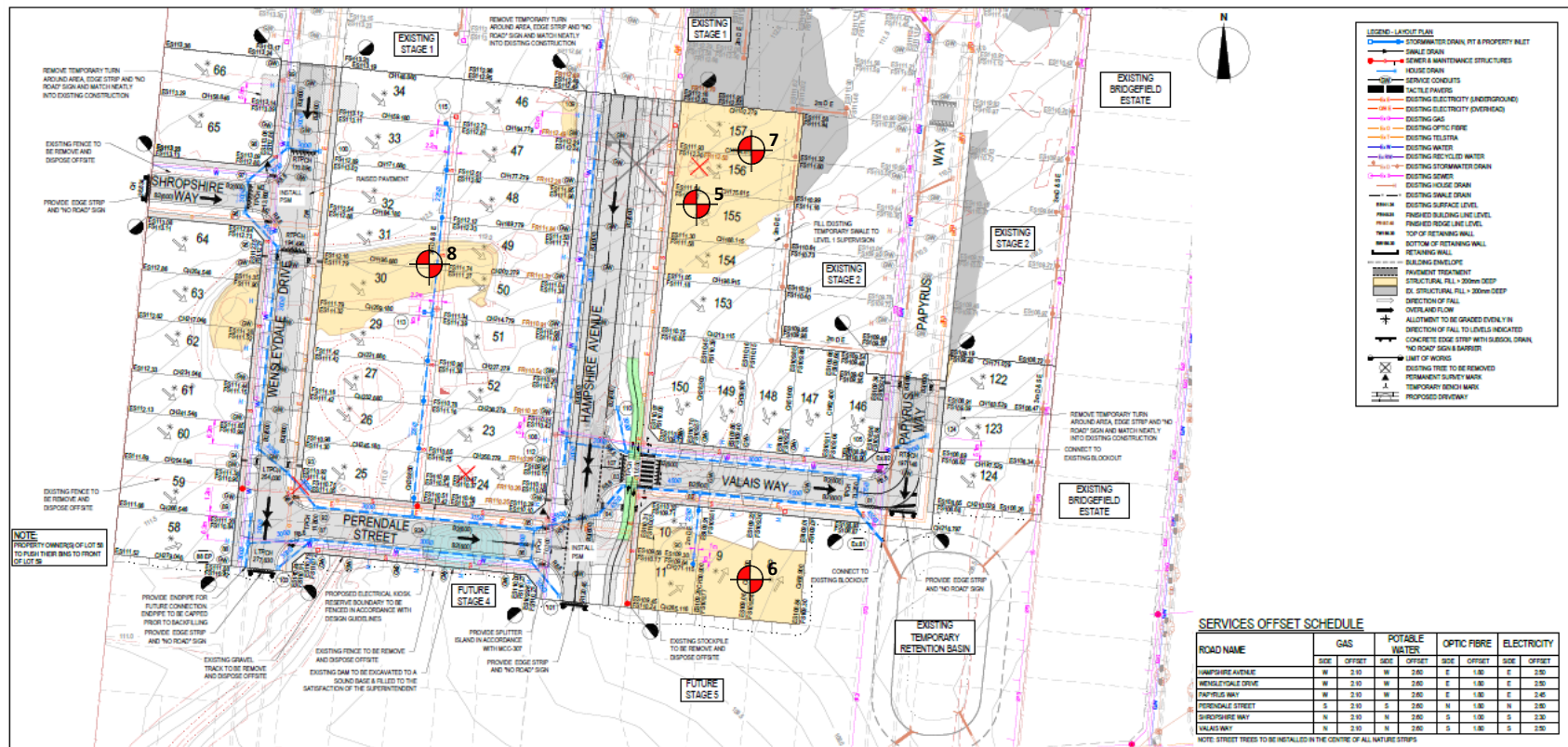
Client:	Bitu-Mill	Job No:	BTU2158		
Project:	Williams Walk - Stage 3 (Level 1)	Report:	2		
Location:	Rockbank				
Sample No	5	6	7	8	
Date Tested	29/03/2022	29/03/2022	29/03/2022	29/03/2022	
Time Tested	AM	AM	PM	PM	
Test Location	Refer to Plan	Refer to Plan	Refer to Plan	Refer to Plan	
Level/Layer	2	2	2	2	
Layer Thickness	mm 150	150	150	150	
Test Depth	mm 125	125	125	125	
Field Wet Density	t/m ³ 1.86	1.88	1.84	1.82	
Field Moisture Content	% 24.1	22.3	24.4	26.8	
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill	
Oversize Material	WET, % 4.9	5.2	5.3	4.5	
Sieve Size	mm 19	19	19	19	
Peak Converted Wet Density	t/m ³ 1.87	1.88	1.85	1.83	
Optimum Moisture Content	% 25	23	25	27	
Moisture Ratio	% 96.5	97	97.5	99.5	
Moisture Variation from OMC	% -0.5 Drier	-0.5 Drier	-1.0 Drier	-0.5 Drier	
Density Ratio	% 98.5	99.0	98.5	98.5	

Specification:	98% STD	Test Selection:	N/A		
Notes:	Ref : 1120 0315-1 (SI02)				
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)		

 <small>WORLD RECOGNISED ACCREDITATION</small>	<p>NATA Accredited Laboratory No. 20172</p> <p>Accreditation for compliance with ISO/IEC 17025 - Testing</p> <p>The results of tests, calibrations and/or measurements included in this document, are traceable to Australian / National Standards</p>	<p>Approved Signatory:</p>  <p>David Burns</p>	<p>Date:</p> <p>01/04/2022</p>
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Test Location



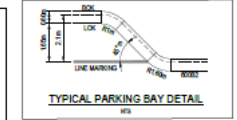
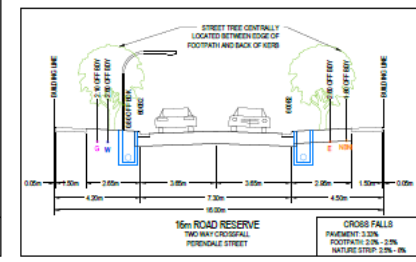
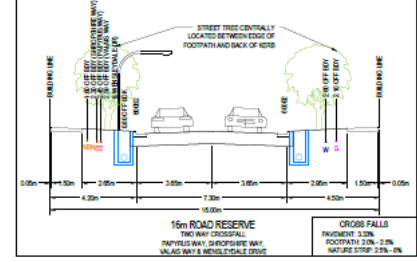
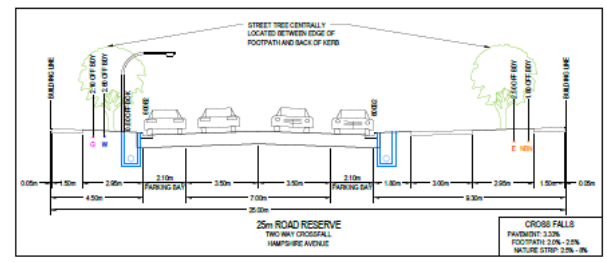
LEGEND - LAYOUT PLAN

- STORMWATER DRAIN (AT A PROPERTY INLET)
- TABLE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- FACTORY WAREHOUSE
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING POWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- EXISTING SURFACE LEVEL
- FINISHED BUILDING LEVEL
- FINISHED ROUGE LINE LEVEL
- TOP OF RETAINING WALL
- BOTTOM OF RETAINING WALL
- BUILDING ENVELOPE
- PAVEMENT TREATMENT
- STRUCTURAL FILL + 200mm DEEP
- EX. STRUCTURAL FILL + 200mm DEEP
- DIRECTION OF FALL
- OUTLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH GULLY DRAIN, NO ROAD SIGNS & BARRELS
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRAIN MARK

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		POTABLE WATER		OPTIC FIBRE		ELECTRICITY	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
HAMPSHIRE AVENUE	W	2.10	W	2.60	E	1.80	E	2.50
WENSLEYDALE DRIVE	W	2.10	W	2.60	E	1.80	E	2.50
PAPYRUS WAY	W	2.10	W	2.60	E	1.80	E	2.40
PERENDALE STREET	S	2.10	S	2.60	N	1.80	N	2.50
SHROPSHIRE WAY	N	2.10	N	2.60	S	1.80	S	2.50
VALAIS WAY	N	2.10	N	2.60	S	1.80	S	2.50

NOTE: STREET TREES TO BE REINSTALLED IN THE CENTRE OF ALL NATURE STRIPS



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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	29/03/22	ISSUED FOR CONSTRUCTION	M. TROUBLE	T. PAULOS	K. MCKELVEE
1	11/03/22	COUNCIL COMMENTS DATES 11/03/22	M. TROUBLE	T. PAULOS	K. MCKELVEE
2	08/03/22	ISSUED FOR APPROVAL	M. TROUBLE	T. PAULOS	K. MCKELVEE
3	11/03/22	TENDER ISSUE	M. TROUBLE	T. PAULOS	K. MCKELVEE



WILLIAMS WALK - STAGE 3 LAYOUT PLAN

ISSUED FOR CONSTRUCTION

SCALE	DATE	DRAWN	REVISION
1:500 @ A1	11/03/22	K. MCKELVEE	K. MCKELVEE
PROJECT NUMBER	PROJECT MANAGER	DATE POSTED	
M. TROUBLE	T. PAULOS	NOVEMBER 2021	
PROJECT VALUE	DRAWN/VAL	REVISION	
180197.3	R200	0	

PROJECT:
Williams Walk – Stage 3 (Level 1)

LOCATION:
Rockbank

CLIENT:
Bitu-Mill

PROJECT No:
1120 0315-1 (SI02)

DATE:
29/03/2022

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results AS1289.5.7.1

Client:	Bitu-Mill	Job No:	BTU2158
Project:	Williams Walk - Stage 3 (Level 1)	Report:	3
Location:	Rockbank		

Sample No	9	10	11			
Date Tested	30/03/2022	30/03/2022	30/03/2022			
Time Tested	AM	PM	PM			

Test Location	Refer to Plan	Refer to Plan	Refer to Plan			
Level/Layer	3	FSL	3			
Layer Thickness	mm 150	150	150			
Test Depth	mm 125	125	125			
Field Wet Density	t/m ³ 1.87	1.88	1.89			
Field Moisture Content	% 22.4	22.0	21.2			
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill			

Oversize Material	WET, %	4.5	5.3	5.6		
Sieve Size	mm	19	19	19		
Peak Converted Wet Density	t/m ³	1.88	1.89	1.89		
Optimum Moisture Content	%	23	23	22		

Moisture Ratio	%	97.5	95.5	96.5		
Moisture Variation from OMC	%	-1.0	-1.0	-0.5		
Density Ratio	%	98.5	98.5	99.0		

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0315-1 (SI03)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)



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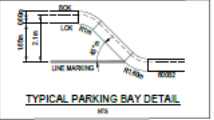
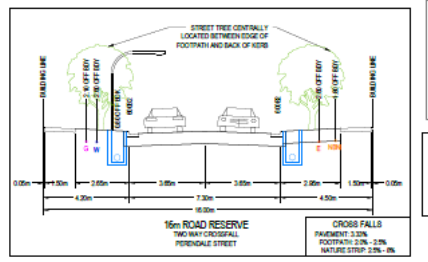
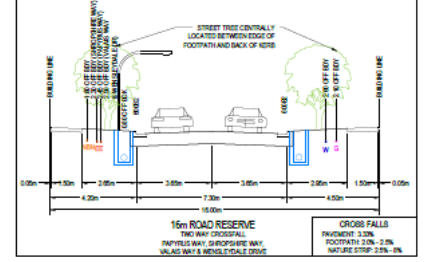
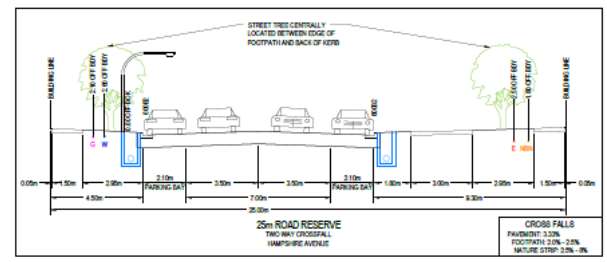
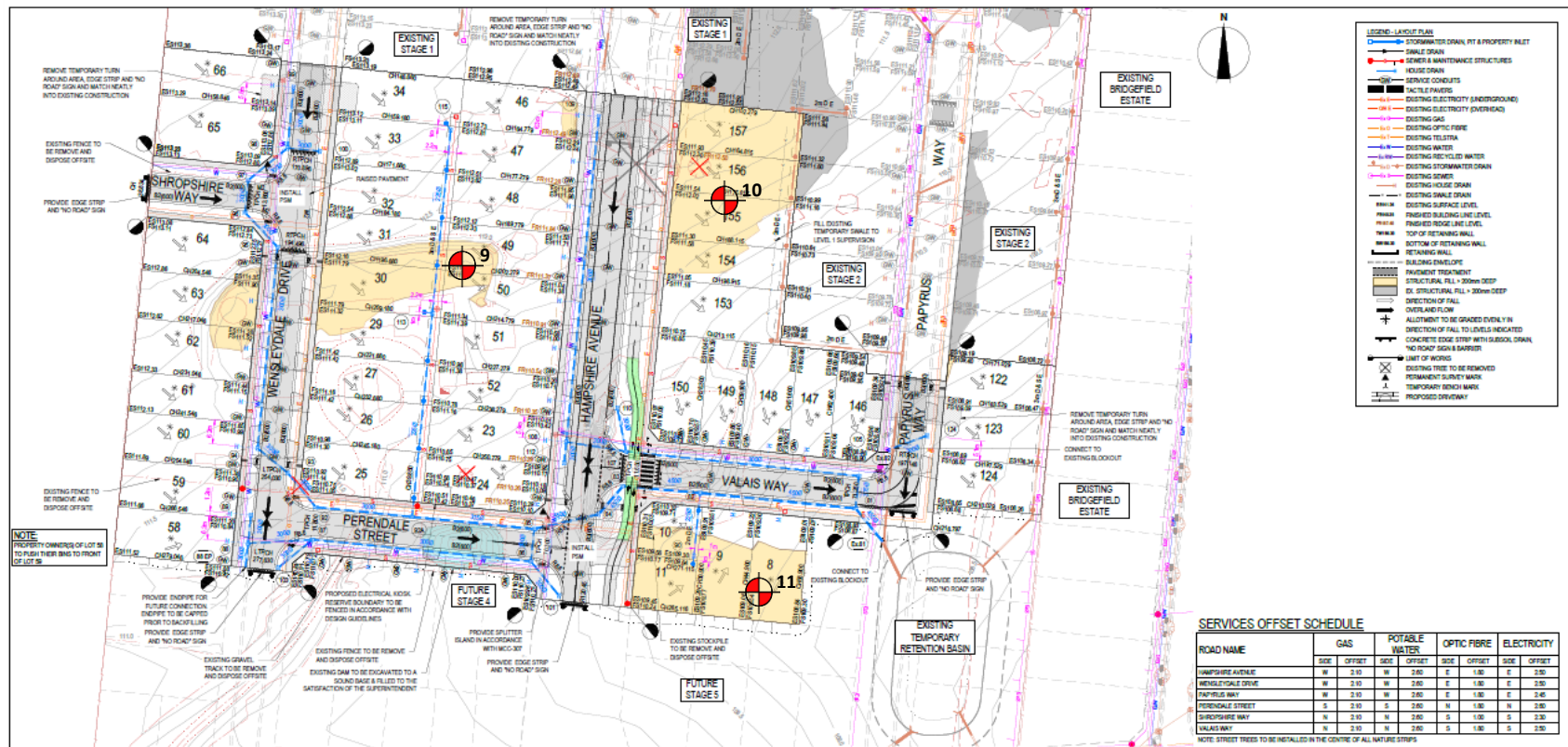


David Burns

Date: 01/04/2022

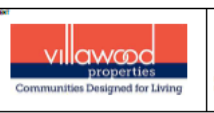


Test Location



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0	29/02/22	ISSUED FOR CONSTRUCTION	K. MCKELVEE	T. PAULOS	T. PAULOS
1	11/03/22	COUNCIL COMMENTS DATES 11/03/22	K. MCKELVEE	T. PAULOS	T. PAULOS
2	08/03/22	ISSUED FOR APPROVAL	K. MCKELVEE	T. PAULOS	T. PAULOS
3	11/03/22	TENDER ISSUE	K. MCKELVEE	T. PAULOS	T. PAULOS



WILLIAMS WALK - STAGE 3
LAYOUT PLAN

ISSUED FOR CONSTRUCTION

SCALE	DATE	DRAWN	REVISION
1:500 @ A1		K. MCKELVEE	K. MCKELVEE
PROJECT NUMBER	PROJECT MANAGER	DATE POSTED	
M. TROULNICE	T. PAULOS	NOVEMBER 2021	
PROJECT VALUE	DRAWN VALUE	REVISION	
180197.3	R200	0	

PROJECT:
Williams Walk – Stage 3 (Level 1)

LOCATION:
Rockbank

CLIENT:
Bitu-Mill

PROJECT No:
1120 0315-1 (SI03)

DATE:
30/03/2022

SITE PLAN SKETCH—NOT TO SCALE



Field Density Test Results

AS1289.5.7.1

Client:	Bitu-Mill	Job No:	BTU2158
Project:	Williams Walk - Stage 3 (Level 1)	Report:	4
Location:	Rockbank		

Sample No	12	13	14			
Date Tested	31/03/2022	31/03/2022	31/03/2022			
Time Tested	AM	AM	AM			

Test Location	Refer to Plan	Refer to Plan	Refer to Plan			
Level/Layer	4	FSL	FSL			
Layer Thickness	mm 150	150	150			
Test Depth	mm 125	125	125			
Field Wet Density	t/m ³ 1.86	1.87	1.83			
Field Moisture Content	% 22.2	21.6	23.8			
Material:	Site Derived Clay Fill	Site Derived Clay Fill	Site Derived Clay Fill			

Oversize Material	WET, %	5.1	4.4	4.2		
Sieve Size	mm	19	19	19		
Peak Converted Wet Density	t/m ³	1.88	1.88	1.83		
Optimum Moisture Content	%	23	22.5	24.5		

Moisture Ratio	%	96.5	96	97		
Moisture Variation from OMC	%	-0.5	-1.0	-0.5		
Density Ratio	%	98.5	99.0	99.0		

Specification:	98% STD	Test Selection:	N/A
Notes:	Ref : 1120 0315-1 (SI04)		
Test Method	AS1289 5.8.1, 5.7.1, 2.1.1, 1.1	Sampling Method:	AS 1289 1.2.1 6.4(b)



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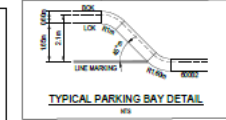
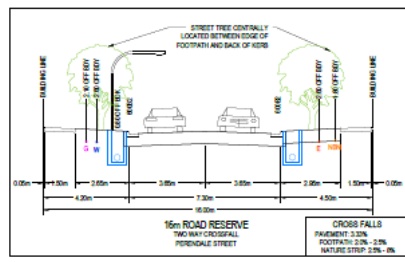
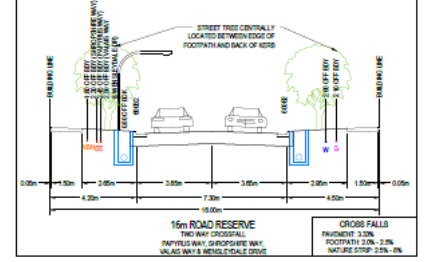
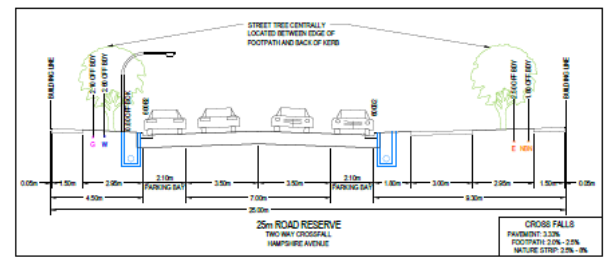
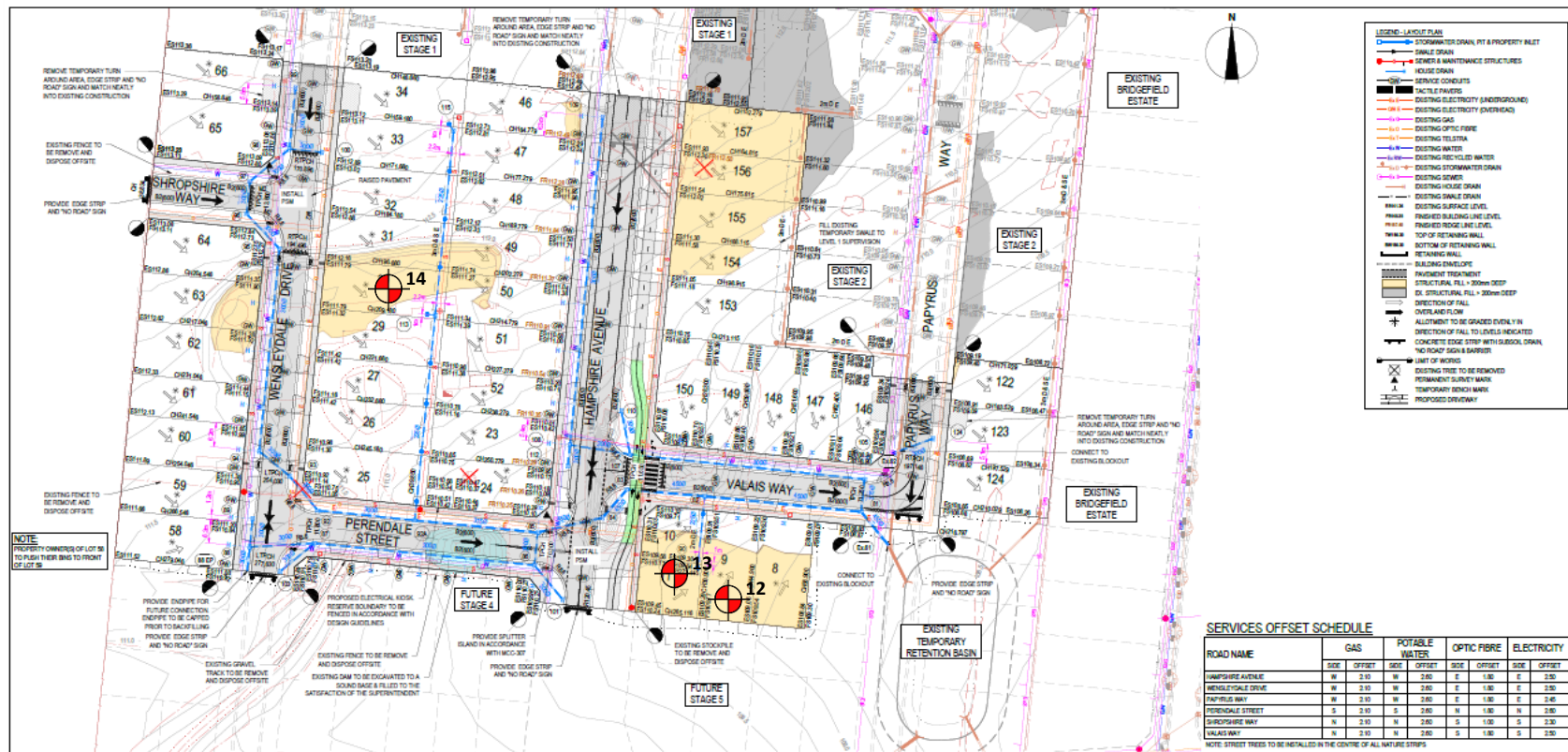


David Burns

Date: 01/04/2022



Test Location



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2	08/03/22	ISSUED FOR APPROVAL	K. MCKELVEE	T. PALOUS	T. PALOUS
3	11/03/22	TENDER ISSUE	K. MCKELVEE	T. PALOUS	T. PALOUS



WILLIAMS WALK - STAGE 3
LAYOUT PLAN

ISSUED FOR CONSTRUCTION

SCALE	DATE	DRAWN	REVISION
1:500 @ A1		K. MCKELVEE	K. MCKELVEE
PROJECT NUMBER	PROJECT MANAGER	DATE POSTED	
M. TROULNICE	T. PALOUS	NOVEMBER 2021	
PROJECT VALUE	DRAWINGS	REVISION	
180197.3	R200	0	

PROJECT:
Williams Walk – Stage 3 (Level 1)

LOCATION:
Rockbank

CLIENT:
Bitu-Mill

PROJECT No:
1120 0315-1 (SI04)

DATE:
31/03/2022

SITE PLAN SKETCH—NOT TO SCALE

