

# ROSAMOND STREET, HORNSBY PROPOSED DRAINAGE UPGRADE

## LEGEND

	EXISTING KERB & GUTTER.
	EXISTING FENCE.
	EXISTING CONCRETE PATH EDGE.
	EXISTING TOP/BOTTOM OF BANK
	EXISTING PLANTER BEDS.
	EXISTING STORM WATER PIPE.
	EXISTING POWER POLE.
	EXISTING TREE.
	SURVEY TRAVERSE STATION.
	SURVEY REFERENCE MARKS - DRILL HOLE.
	EXISTING TELSTRA PIT.
	EXISTING FIRE HYDRANT.
	EXISTING WATER STOP VALVE.
	EXISTING U/G ELECTRICITY CABLES.
	EXISTING U/G WATER MAIN.
	EXISTING U/G TELSTRA CABLES
	EXISTING U/G NBN CABLES
	EXISTING O/H POWER CABLES.
	PROPOSED STORMWATER INLET PIT.
	STORMWATER PIT LABEL (LINE No./PIT No.).
	PROPOSED KERB & GUTTER.

DRAWING SCHEDULE		
SHEET No.	TITLE	ISSUE
1	DRAWING SCHEDULE, LOCALITY PLAN, LEGEND & NOTES.	1
2	GENERAL WORKS & SERVICES PLAN.	1
3	CATCHMENT PLAN.	1
4	HYDROLOGIC & HYDRAULIC DATA TABLES.	1

## GENERAL NOTES:

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS & SPECIFICATIONS OF HORNSBY SHIRE COUNCIL.
- LEVELS SHALL BE OBTAINED FROM ESTABLISHED BENCH MARKS & NOT FROM SURVEY PEGS.
- PROVIDE TRAFFIC MANAGEMENT, LINE MARKING & SIGNAGE IN ACCORDANCE WITH THE TFNSW "TRAFFIC CONTROL AT WORK SITES" TECHNICAL MANUAL & AS1742.3 REQUIREMENTS.
- SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED FROM THE RELEVANT AUTHORITIES VIA A "BEFORE YOU DIG AUSTRALIA" ENQUIRY. THE LOCATION OF SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED AS ACCURATELY AS POSSIBLE FROM DIAGRAMS PROVIDED BY SERVICE AUTHORITIES & FIELD INVESTIGATIONS & ARE TO BE VERIFIED PRIOR TO CONSTRUCTION.
- EROSION & SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE LANDCOM PUBLICATION:- "MANAGING URBAN STORMWATER, SOILS & CONSTRUCTION" Vol. 1, 4th EDITION.
- ALL DISTURBED AREAS OF THE SITE ARE TO BE REINSTATED WITH EXISTING OR MATCHING MATERIALS UNLESS NOTED OTHERWISE AT THE COMPLETION OF THE WORKS.
- ARRANGE SET-OUT BY HORNSBY SHIRE COUNCIL DESIGN & CONSTRUCTION BRANCH SURVEYOR. NOTIFY ENGINEERING SURVEYOR A MINIMUM OF 24 HOURS IN ADVANCE.
- WHERE PAVEMENT RESURFACING IS UNDERTAKEN ENSURE ALL BLUE HYDRANT MARKER RRPMS ARE REINSTATED AT THE COMPLETION OF WORKS.
- WHERE WORKS ARE ADJACENT TO EXISTING STRUCTURES UNDERTAKE A DILAPIDATION SURVEY OF EXISTING ADJACENT STRUCTURES BEFORE COMMENCEMENT OF ANY WORKS.
- UTILITY SERVICES INVESTIGATION HAS BEEN DONE BY UTILITY MAPPING (AUST) PTY LTD. DATE OF LOCATING SERVICES : 19/11/2024. TRIM DOCUMENT No.D09031469.

## ABORIGINAL ARTIFACT NOTES:

- AN AHIMS WEB SEARCH HAS BEEN UNDERTAKEN FOR THIS PROJECT (REF:ROSAMOND STREET). ALTHOUGH NO ARTIFACTS HAVE BEEN IDENTIFIED IN THIS SEARCH SHOULD ANY POTENTIAL ARTIFACTS BE UNCOVERED THEY ARE NOT TO BE REMOVED FROM THE SITE & SHALL BE IMMEDIATELY REPORTED TO COUNCIL'S PROJECT MANAGER. TRIM DOCUMENT # D09031460.



LOCALITY PLAN  
NOT TO SCALE

## ACCESS & SAFETY NOTES:

- THE CONSTRUCTOR SHALL COMPLY WITH ALL STATUTORY & INDUSTRIAL REQUIREMENTS FOR PROVISION OF A SAFE WORKING ENVIRONMENT INCLUDING TRAFFIC CONTROL.
- THE CONSTRUCTOR SHALL PROVIDE TRAFFIC MANAGEMENT PLANS FOR THE PROPOSED WORKS COMPLETED BY A SUITABLY QUALIFIED PERSON & APPROVED BY COUNCIL/REGULATORY AUTHORITY. WORK IS NOT TO COMMENCE ON SITE PRIOR TO APPROVAL OF TRAFFIC MANAGEMENT SCHEME.
- THE CONSTRUCTOR SHALL ENSURE THAT AT ALL TIMES ACCESS TO BUILDINGS/RESIDENCES ADJACENT TO THE WORKS IS NOT DISRUPTED.
- WHERE NECESSARY THE CONSTRUCTOR SHALL PROVIDE SAFE PASSAGE OF VEHICLES AND/OR PEDESTRIANS THROUGH OR BY THE SITE.
- THE CONSTRUCTOR SHALL ENSURE PUBLIC ACCESS EXTERNAL TO THE SITE IS IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

ASSET MANAGEMENT & MAINTENANCE BRANCH	
Senior Asset Engineer	<i>[Signature]</i>
Name: A. BOYD	Telephone: 9847 6672
Accepted as complying with the general intent of the design brief	
Project Number	101738
Sheet of	1 of 4
Issue	1
HSC Drawing Number	923.6

**Hornsby Shire Council  
Design & Construction  
Branch**

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Designer	B. RAJAKARUNA	Design Checked	Design Team Leader
Drawn	B. RAJAKARUNA	Signed	<i>[Signature]</i>
Surveyor	J. HART	NA	NA
Project Identifier \ -CAD File Name	H:\PROJECTS\Rosamond Street_DR_101738\Design\CAD\Rosamond Street.dwg	Field Book	Level Book
TRIM Document Number	D09064111	AHD	Datum

Issue	1	ISSUED FOR CONSTRUCTION	Name	D TAMANG	Initial	DT	Date	3/3/25
Design not to be amended without authorisation by Manager Design & Construction								

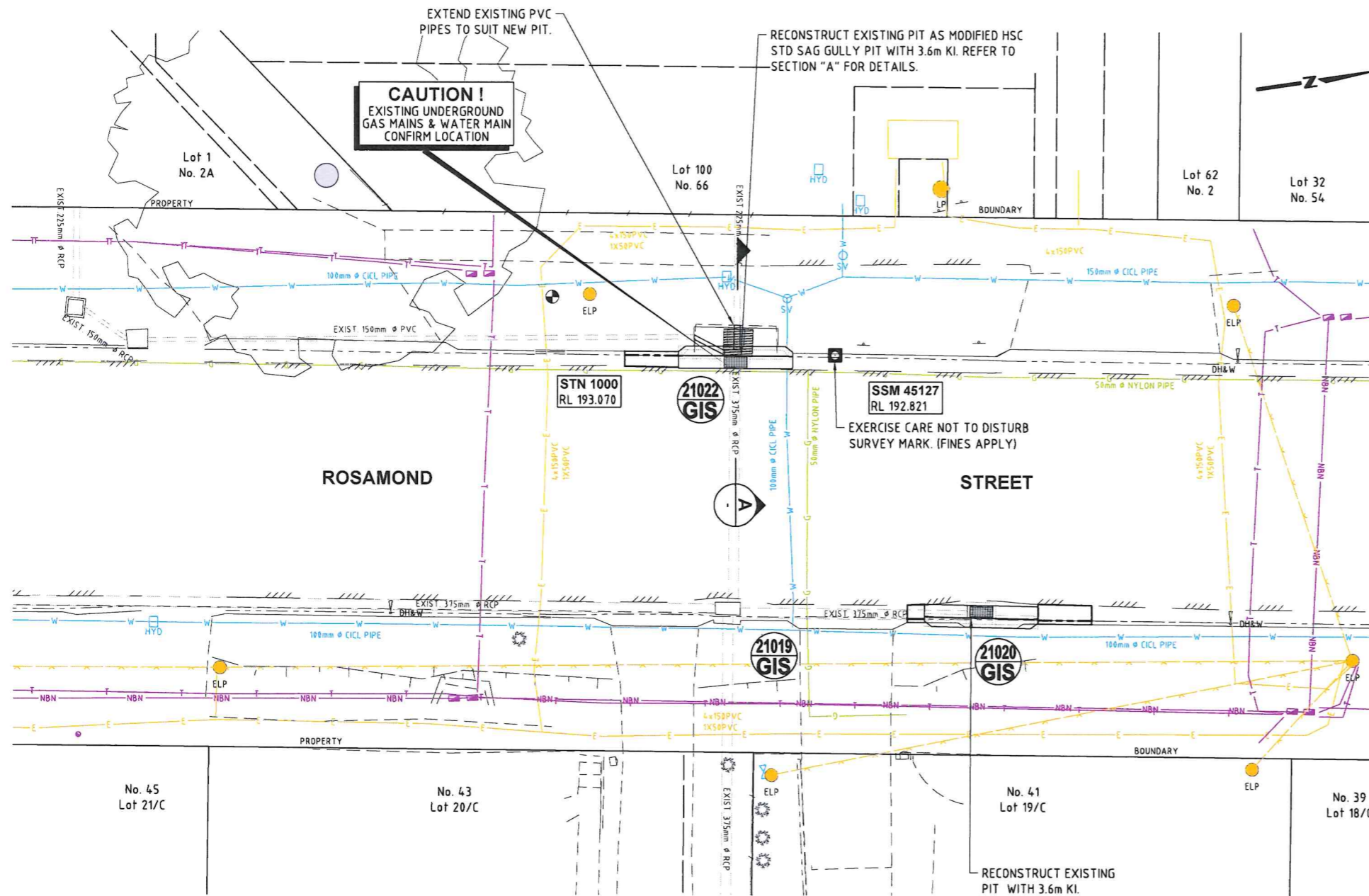
Bar Scales  
NOT TO SCALE  
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY



ROSAMOND STREET HORNSBY  
PROPOSED DRAINAGE UPGRADE AT No.43

DRAWING SCHEDULE, LOCALITY PLAN, LEGEND & PROJECT NOTES.





REFER TO SHEET No.4 FOR HYDROLOGIC HYDRAULIC ANALYSIS DATA TABLES.

**CAUTION!**  
EXISTING UNDERGROUND GAS MAINS & WATER MAIN CONFIRM LOCATION

RECONSTRUCT EXISTING PIT AS MODIFIED HSC STD SAG GULLY PIT WITH 3.6m KI. REFER TO SECTION "A" FOR DETAILS.

EXERCISE CARE NOT TO DISTURB SURVEY MARK. (FINES APPLY)

STREET

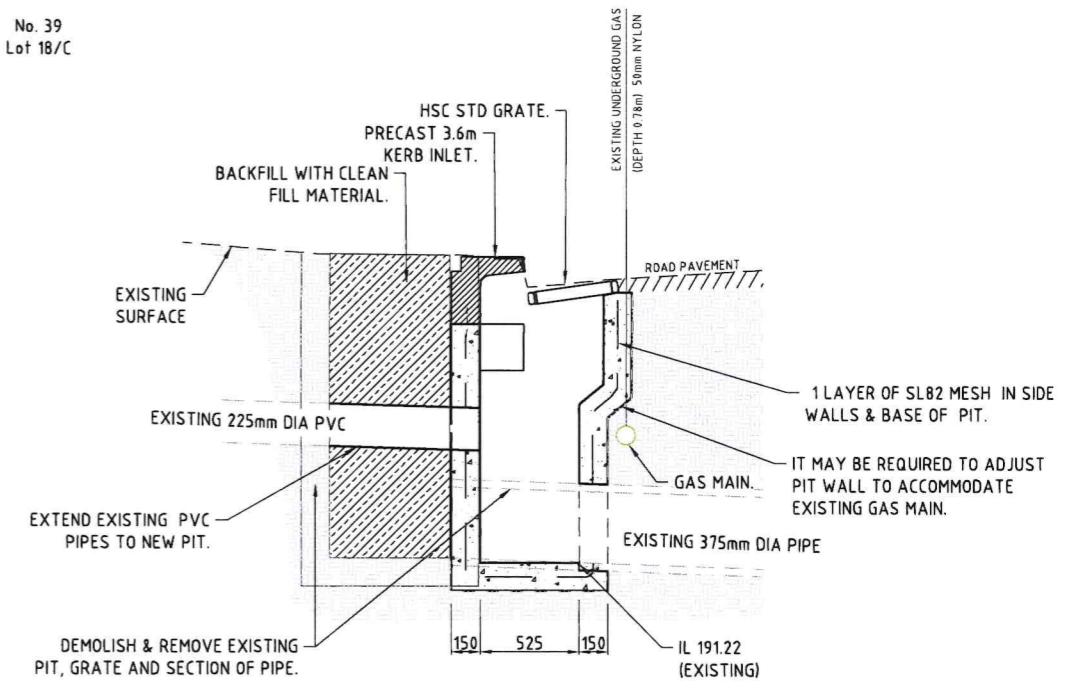
ROSAMOND

RECONSTRUCT EXISTING PIT WITH 3.6m KI.

**SURVEY MARKS:**  
NOTE: SURVEY MARKS MUST NOT BE DISTURBED. IF MARKS HAVE TO BE REMOVED APPLICATION MUST BE MADE THROUGH A REGISTERED SURVEYOR TO SUBMIT A "PRESERVATION OF SURVEY INFRASTRUCTURE" FORM TO SPATIAL SERVICES NSW.

**WARNING**  
**BEWARE OF UNDERGROUND SERVICES**  
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM KNOWN POSITIONS OF VALVES, MANHOLES ETC. AND/OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.

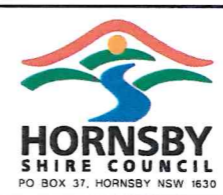
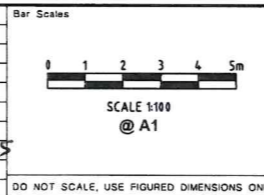
**PLAN**  
SCALE 1:100



**SECTION A**  
SCALE N.T.S.

**Hornsby Shire Council**  
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TELEPHONE 1021 9847 6666  
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Designer B. RAJAKARUNA	Design Checked Signed: <i>[Signature]</i>	Design Team Leader
Drawn B. RAJAKARUNA	Drawing Checked	
Surveyor J. HART	NA	NA
Field Book	NA	AHD
Level Book	NA	Datum
Project Identifiers - CAD File Name H:\PROJECTS\Rosamond Street_DR_101738\Design\CAD\Rosamond Street.dwg		
Issue	1	ISSUED FOR CONSTRUCTION
TRM Document Number		Description
Name	D. TAMANG	Initial
Date	20/03/25	Date
Design not to be amended without authorisation by Manager Design & Construction		



**ROSAMOND STREET HORNSBY**  
**PROPOSED DRAINAGE UPGRADE AT No.43**  
**GENERAL WORKS & SERVICES PLAN.**

Project Number	101738	
Sheet of	2	4
Issue	1	
HSC Drawing Number	923.6	





**CATCHMENT PLAN**  
SCALE 1:500

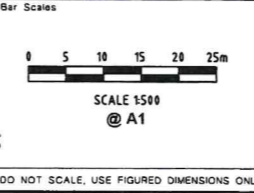
**LEGEND**

- EXISTING 0.5m CONTOUR.
- EXISTING STORMWATER PIPE.
- EXISTING STORMWATER PIT.
- CATCHMENT BOUNDARY.
- 21022**  
0.27Ha CATCHMENT NUMBER & AREA(Ha).
- PROPOSED STORMWATER PIT.

**Hornsby Shire Council**  
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Designer <b>B. RAJAKARUNA</b>	Design Checked <i>[Signature]</i>	Design Team Leader Signed
Drawn <b>B. RAJAKARUNA</b>	Drawing Checked	Signed
Surveyor <b>J. HART</b>	NA	NA
	Field Book	AHD
Project Identifier\CAD File Name H:\PROJECTS\Rosamond Street_DR_101738\Design\CAD\Rosamond Street.dwg		
1	ISSUED FOR CONSTRUCTION	D. TAMANG DT 3/3/25
1	Issue	Name Initial Date

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1	Issue	Name Initial Date



**ROSAMOND STREET HORNSBY**  
**PROPOSED DRAINAGE UPGRADE AT No.43**

CATCHMENT PLAN.

Project Number <b>101738</b>
Sheet of <b>3 4</b>
Issue <b>1</b>
HSC Drawing Number <b>923.6</b>

Authorised for release - Manager Design & Construction  
Name: **M. DRAKE** Signed: *[Signature]* Date: **3/3/25**

Design not to be amended without authorisation by Manager Design & Construction



EXISTING																										
5% AEP (ANNUAL EXCEEDANCE PROBABILITY) HYDROLOGIC & HYDRAULIC DATA & RESULTS																										
CATCHMENT AND RUNOFF					INLET FLOWS							PIPE							PIT							
Pit Name	Sub-Catchment Area (ha)	Land Use		Total Entry Time, tc (minutes)	Peak Sub-Catchment Flowrate (m3/s)	Overflows Approaching Pit		Flow Width (m)	Depth x Velocity (m2/s)	Peak Approach Flow (m3/s)	Bypass Flow(s) (m3/s)	Peak Flow in Pipe (m3/s)	Pipe Length (m)	Pipe Slope (%)	Pipe Diameter (mm)	U/S Pipe Invert Level (m)	D/S Pipe Invert Level (m)	U/S HGL in Pipe (m)	D/S HGL in Pipe (m)	Pipe Flow Velocity (m/s)	Pressure Change Coeff. Ku	Water Surface Elevation (m)	Ground Surface Level (m)	Pit Free-board (m)	Pit Name	Pit Type & Size
		Type (IL-CL)	(%)			Origin of Approach Flows	Peak Flowrate(s) (m3/s)																			
Pit 21021	0.04	EIA RIA PA	90 5 5	5 5 5	0.021	-	0.021	1.6	0.04	0.021	0	0.022	30	2	375	192.1	191.5	192.213	191.598	0.98	4	192.21	192.92	0.71	Pit 21021	Existing GP 2.4m KI
Pit 21019	0.02	EIA RIA PA	90 5 5	5 5 5	0.011	Pit 21021 Pit 21022 Pit 21020	0.011	1.1	0.02	0.011	0.047	0.291	22	10.18	375	190.85	188.61	191.206	188.994	2.69	2	191.6	192.61	1.01	Pit 21019	Existing SP 1.8m KI
Pit 2345	-	EIA RIA PA	- - -	- - -	-	-	-	-	-	-	-	0.291	16.75	12.54	375	188.6	186.5	188.956	186.893	2.69	1	188.99	189.65	0.66	Pit 2345	Existing Junction Pit
Pit 2346	-	EIA RIA PA	- - -	- - -	-	-	-	-	-	-	-	0.291	14.5	10.34	375	186.5	185	186.856	185.191	5.15	1	186.89	187.46	0.57	Pit 2346	Existing Junction Pit
Pit 21022	0.62	EIA RIA PA	40 10 50	5 5 5	0.319	-	0.319	3.8	0.19	0.319	0.143	0.142	10.2	3.04	375	191.24	190.93	191.662	191.598	1.29	4	191.99	192.68	0.69	Pit 21022	Existing SP 1.8m KI
Pit 21020	0.11	EIA RIA PA	60 20 20	5 5 5	0.054	-	0.054	4.3	0.03	0.054	0.011	0.043	9.5	2.74	375	191.79	191.53	191.968	191.623	2.01	4	191.97	192.63	0.66	Pit 21020	Existing GP 2.4m KI

PROPOSED																										
5% AEP (ANNUAL EXCEEDANCE PROBABILITY) HYDROLOGIC & HYDRAULIC DATA & RESULTS																										
CATCHMENT AND RUNOFF					INLET FLOWS							PIPE							PIT							
Pit Name	Sub-Catchment Area (ha)	Land Use		Total Entry Time, tc (minutes)	Peak Sub-Catchment Flowrate (m3/s)	Overflows Approaching Pit		Flow Width (m)	Depth x Velocity (m2/s)	Peak Approach Flow (m3/s)	Bypass Flow(s) (m3/s)	Peak Flow in Pipe (m3/s)	Pipe Length (m)	Pipe Slope (%)	Pipe Diameter (mm)	U/S Pipe Invert Level (m)	D/S Pipe Invert Level (m)	U/S HGL in Pipe (m)	D/S HGL in Pipe (m)	Pipe Flow Velocity (m/s)	Pressure Change Coeff. Ku	Water Surface Elevation (m)	Ground Surface Level (m)	Pit Free-board (m)	Pit Name	Pit Type & Size
		Type (IL-CL)	(%)			Origin of Approach Flows	Peak Flowrate(s) (m3/s)																			
Pit 21021	0.04	EIA RIA PA	90 5 5	5 5 5	0.021	-	0.021	1.6	0.04	0.021	0	0.022	30	2	375	192.1	191.5	192.23	191.756	0.64	4	192.23	192.92	0.69	Pit 21021	Existing GP 2.4m KI
Pit 21019	0.02	EIA RIA PA	90 5 5	5 5 5	0.011	Pit 21021 Pit 21022 Pit 21020	0.011	1.1	0.02	0.011	0	0.322	22	10.18	375	190.85	188.61	191.217	189.074	2.93	2	191.76	192.61	0.85	Pit 21019	Existing SP 1.8m KI
Pit 2345	-	EIA RIA PA	- - -	- - -	-	-	-	-	-	0	0	0.322	16.75	12.54	375	188.6	186.5	188.967	186.973	2.93	1	189.07	189.65	0.58	Pit 2345	Existing Junction Pit
Pit 2346	-	EIA RIA PA	- - -	- - -	-	-	-	-	-	0	0	0.322	14.5	10.34	375	186.5	185	186.867	185.203	5.27	1	186.97	187.46	0.49	Pit 2346	Existing Junction Pit
Pit 21022	0.62	EIA RIA PA	40 10 50	5 5 5	0.319	-	0.319	3.8	0.19	0.319	0.071	0.235	10.2	3.04	375	191.24	190.93	191.913	191.756	2.13	4	192.7	192.68	0	Pit 21022	Proposed SP 3.6m KI
Pit 21020	0.11	EIA RIA PA	60 20 20	5 5 5	0.054	-	0.054	4.3	0.03	0.054	0	0.058	9.5	2.74	375	191.79	191.53	191.965	191.756	1.15	4	192	192.63	0.63	Pit 21020	Proposed GP 3.6m KI

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EMAIL: hsc@hornsby.nsw.gov.au  
Name: M. DRAKE  
Signed: *M Drake*  
Date: 3/3/25

Designer: B. RAJAKARUNA  
Signed: *B Rajakaruna*  
Drawn: B. RAJAKARUNA  
Signed: *B Rajakaruna*  
Surveyor: J. HART  
NA Field Book, NA Level Book, AHD Datum  
Project Identifier: \\CAD File Name  
H:\PROJECTS\Rosamond Street\_DR\_101738\Design\CAD\Rosamond Street.dwg  
TRM Document Number: D09064.111

Design Checked: Design Team Leader  
Signed: *[Signature]*  
Drawing Checked: *[Signature]*  
Signed: *[Signature]*  
Issue: 1  
Description: ISSUED FOR CONSTRUCTION  
Name: D TAMANG  
Initial: DT  
Date: 3/3/25  
Design not to be amended without authorisation by Manager Design & Construction

Bar Scales  
NOT TO SCALE  
DO NOT SCALE, USE FIGURED DIMENSIONS ONLY



**ROSAMOND STREET HORNSBY  
PROPOSED DRAINAGE UPGRADE AT No.43**

HYDROLOGIC & HYDRAULIC DATA TABLES..

Project Number: 101738  
Sheet of: 4 of 4  
Issue: 1  
HSC Drawing Number: 923.6