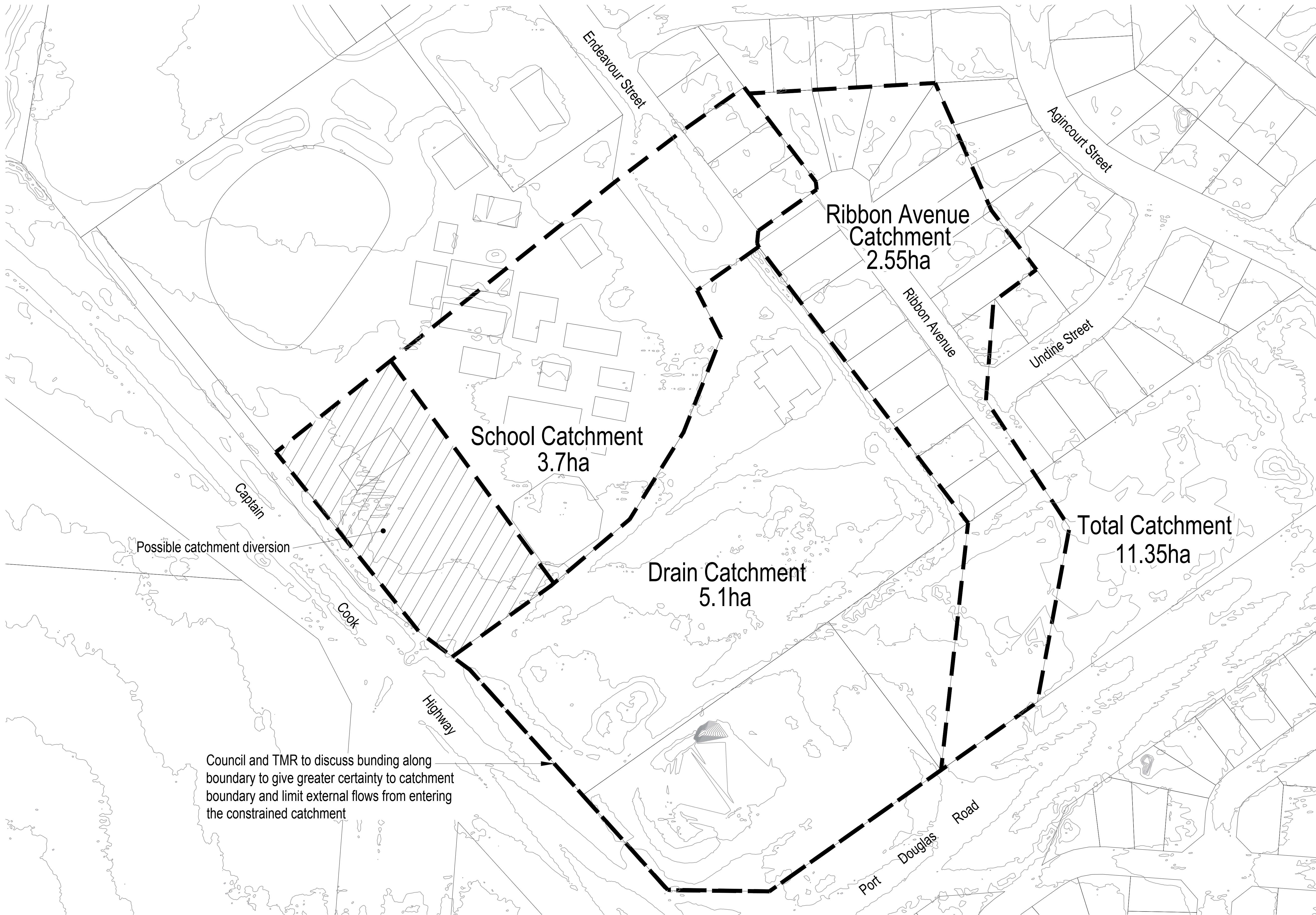
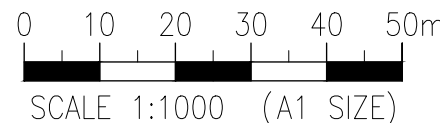


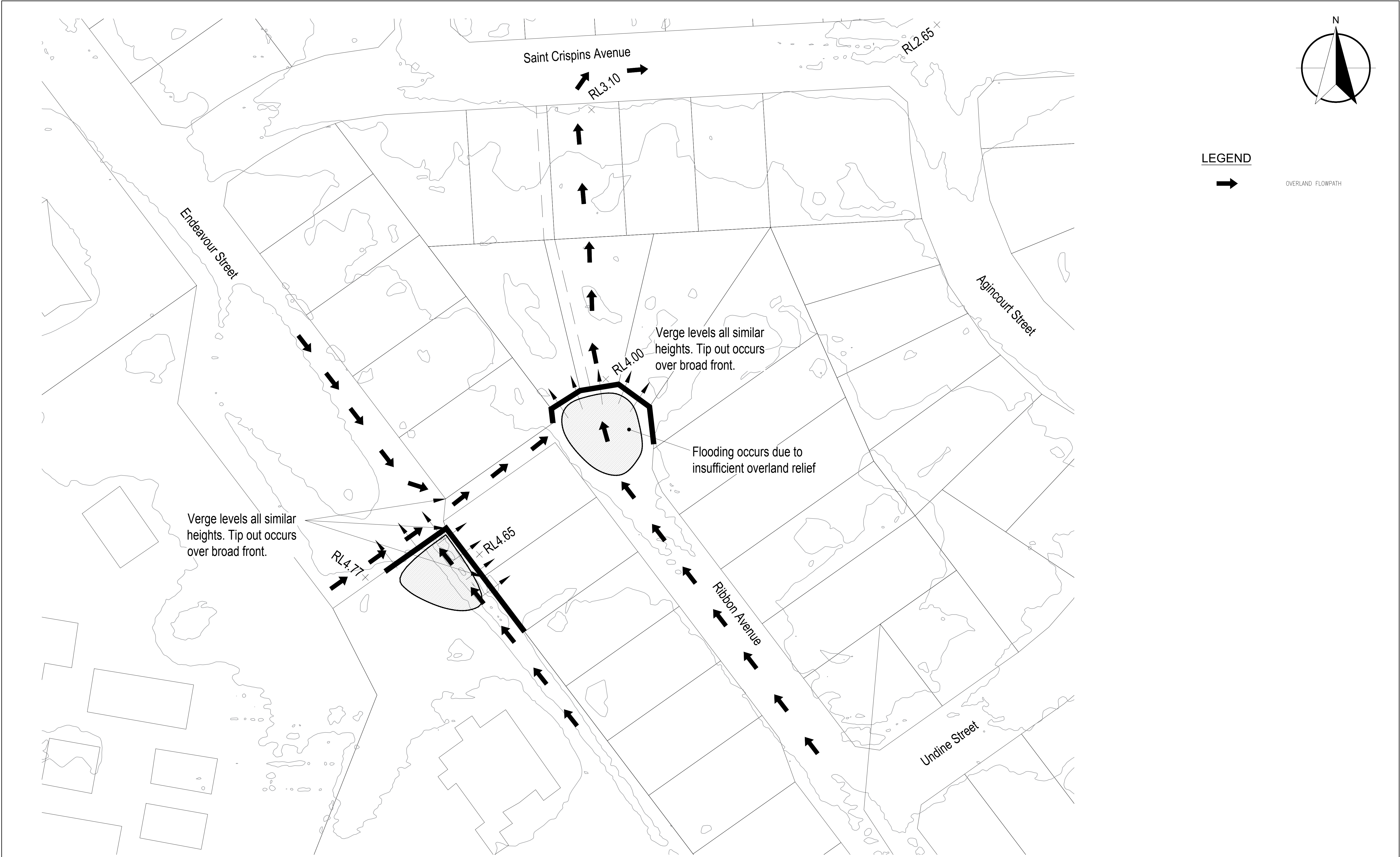
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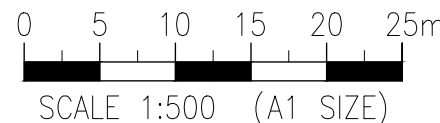
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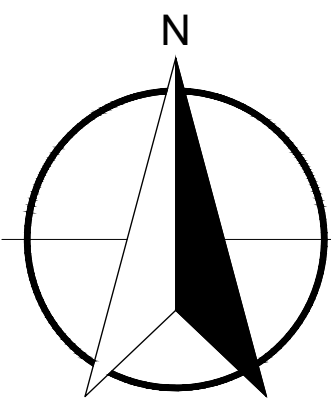
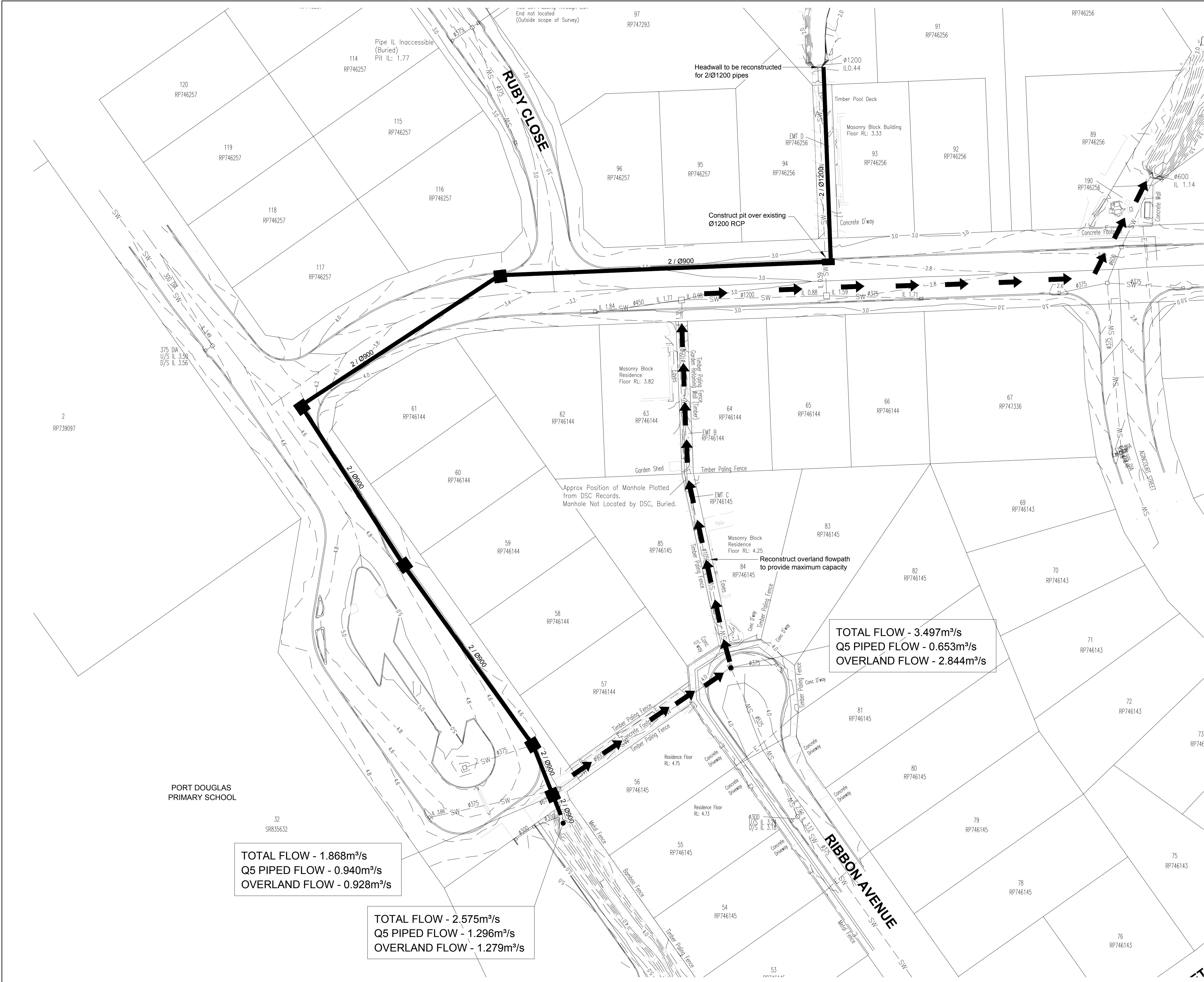
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			Project RIBBON AVENUE DRAINAGE INVESTIGATION				
			Title CATCHMENT PLAN				
JOB No.	1184	Scale (A1 size)	1:1000	Date	10 APRIL 2018	Drawing No. SKETCH 1184-013	Revision B

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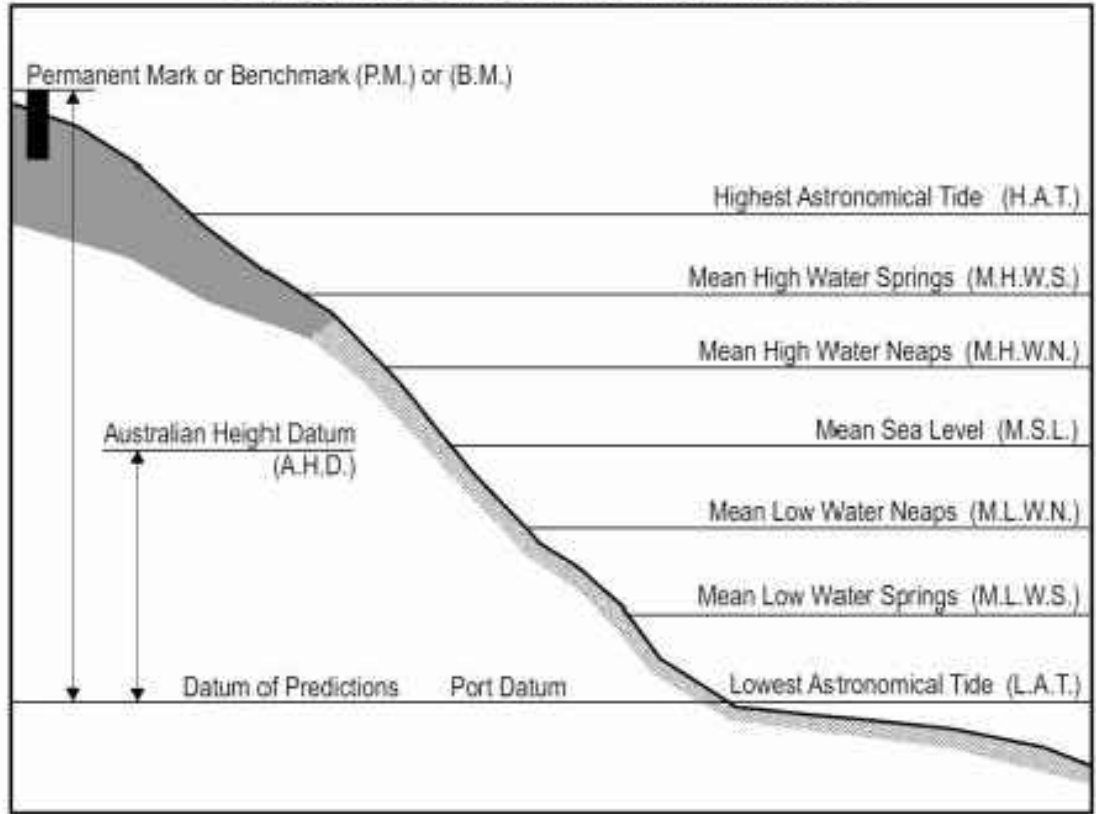
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			Title CURRENT FLOODING OBSERVATIONS			
			JOB No. 1184	Scale (A1 size) 1:500	Date 17 APRIL 2018	Drawing No. SKETCH 1184-014



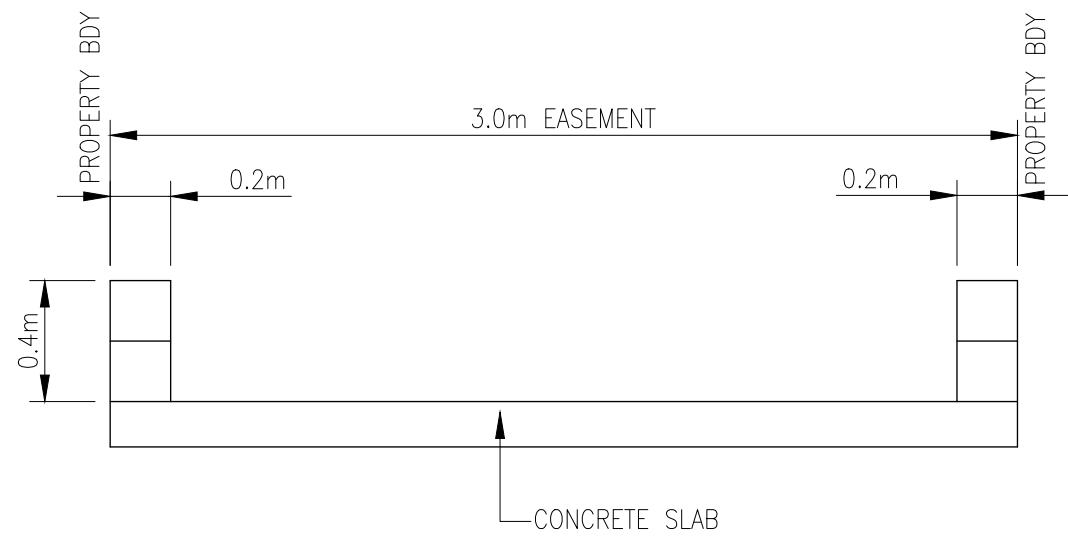
LEGEND

- OVERLAND FLOW DIRECTION
- Q5 PIPE SYSTEM

Guide to Semidiurnal Tidal Planes



BARRAGE HEIGHT	1.025m
H.A.T	1.779m
M.H.W.S	0.909m
M.H.W.N.	0.249m
M.S.L	0.019m
M.L.W.N	-0.211m
M.S.L	-0.881m
M.S.L	-1.581m



OVERLAND FLOWPATH

SCALE 1:25

PRELIMINARY ONLY

0 5 10 15 20 25m
SCALE 1:500 (A1 SIZE)

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Client
DOUGLAS SHIRE COUNCIL

Project
RIBBON AVENUE DRAINAGE INVESTIGATION

Title
**DRAINAGE SOLUTION - OPTION 1
Q5 PIPE NETWORK & EASEMENT MODIFICATIONS FOR Q100**

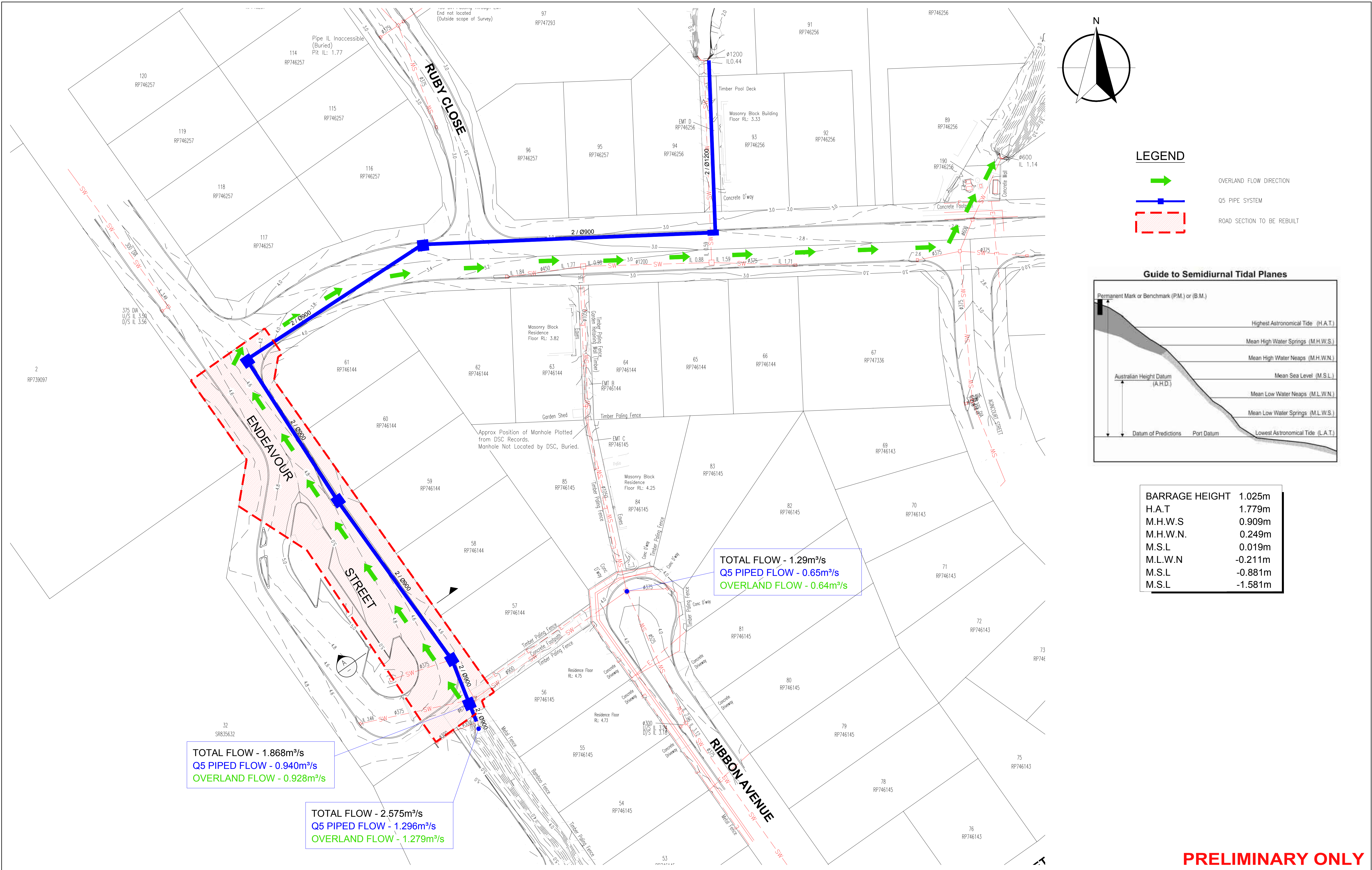
JOB No.
1184

Scale (A1 size)
1:500

Date
10 APRIL 2018

Drawing No.
SKETCH 1184-004

Revision
c



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SCALE 1:500 (A1 SIZE)

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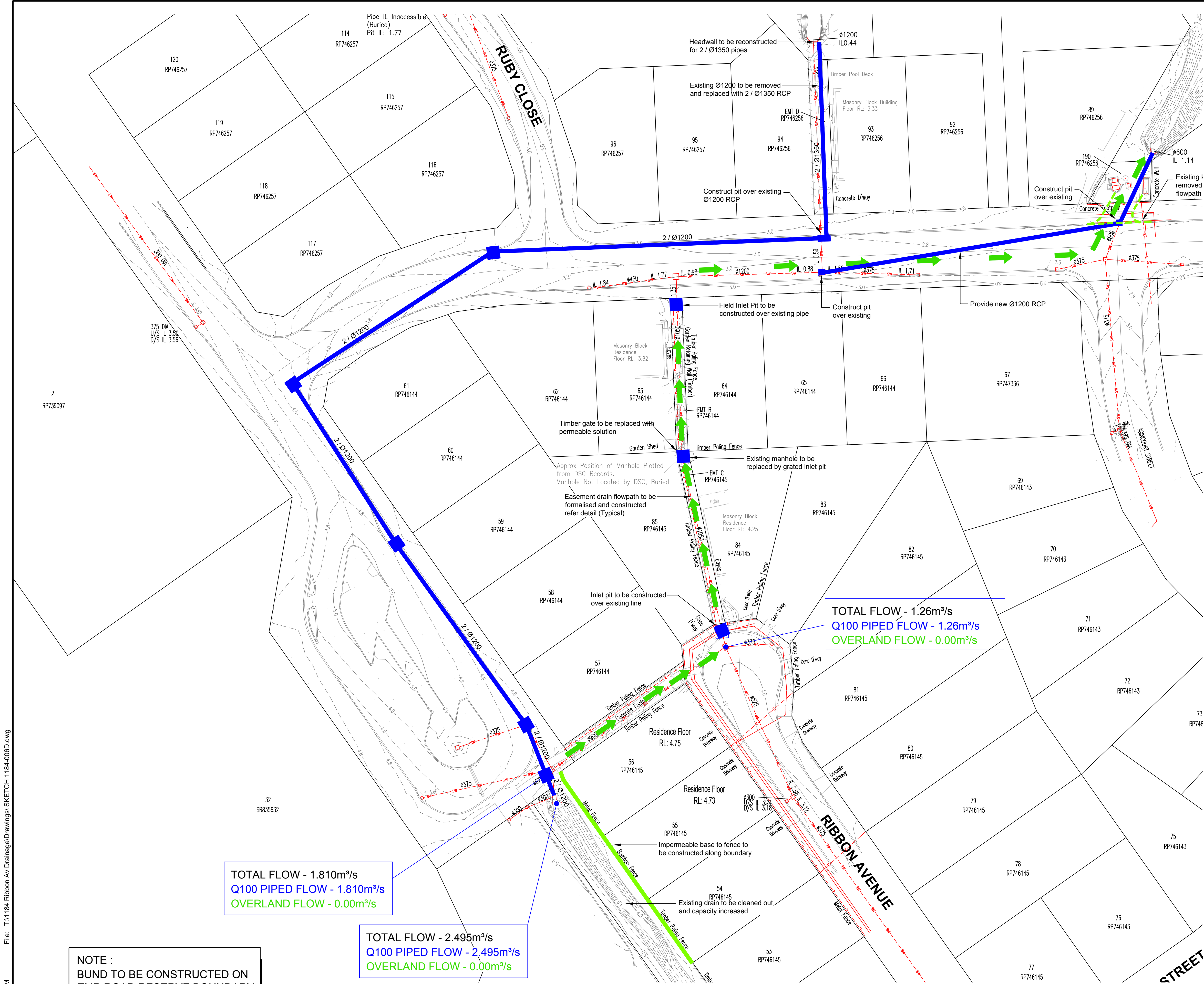
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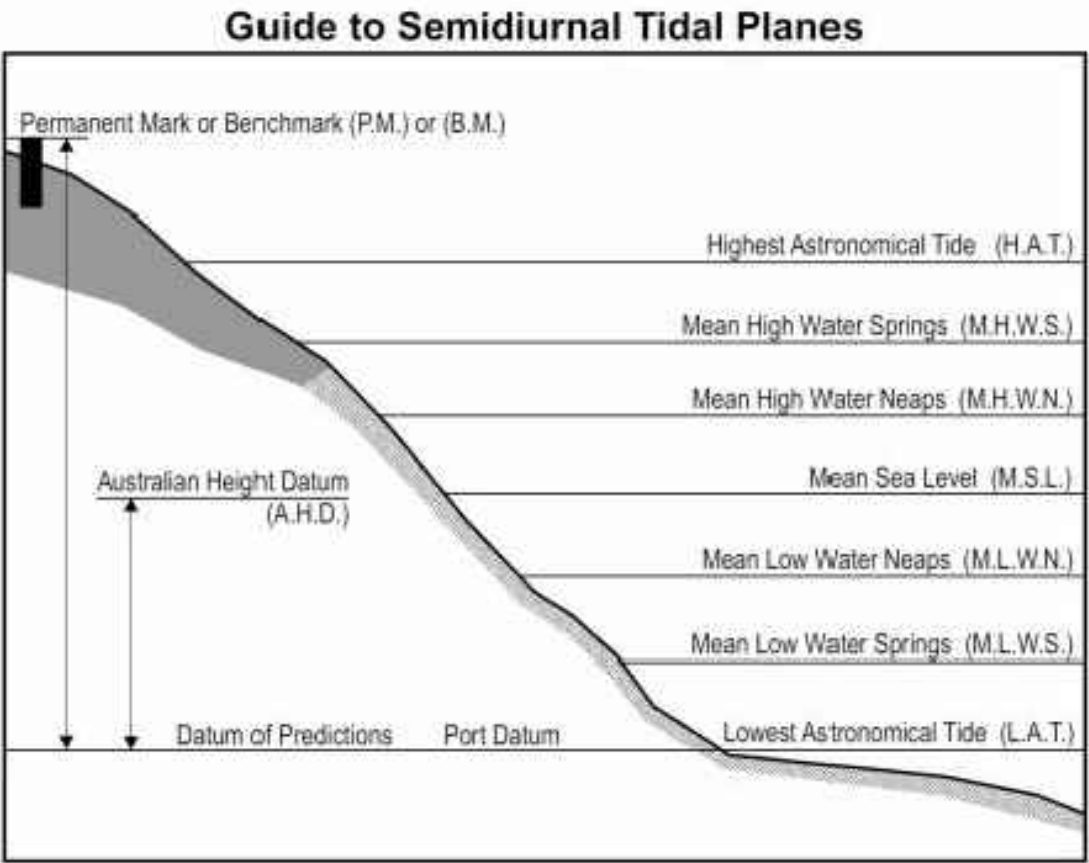
Project
RIBBON AVENUE DRAINAGE INVESTIGATION

Title
**DRAINAGE SOLUTION - OPTION 2
Q5 PIPE NETWORK & ROAD RECONSTRUCTION FOR Q100**

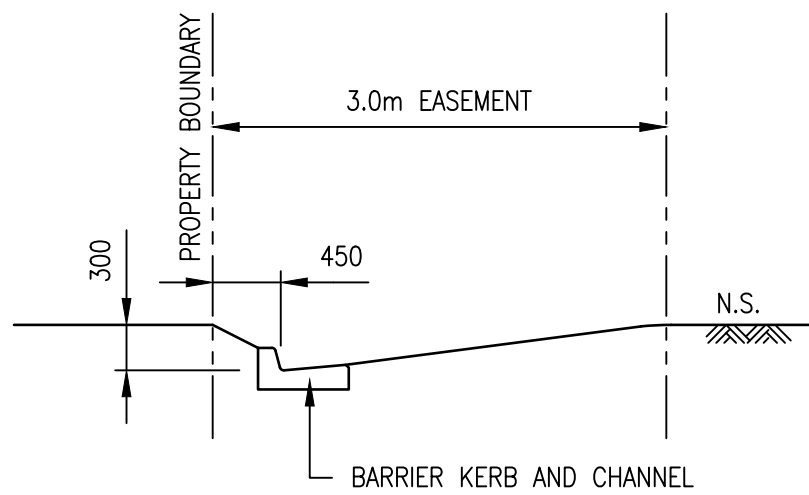
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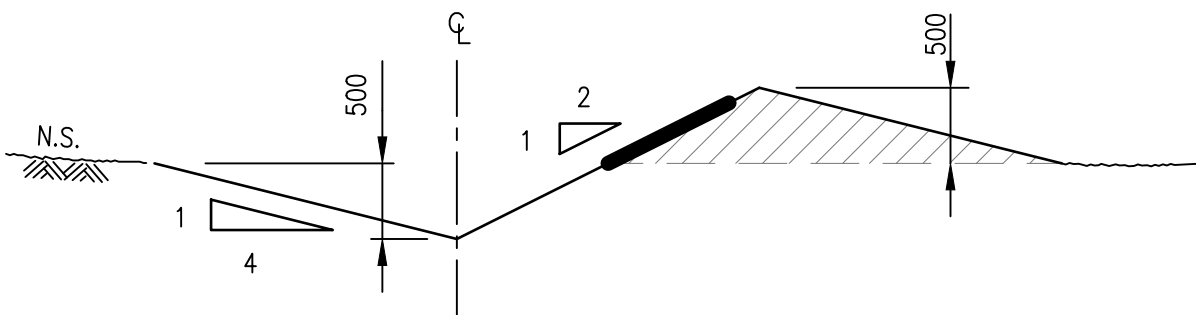
LEGEND
 OVERLAND FLOW (EMERGENCY RELIEF)
 Q100 PIPE SYSTEM



BARRAGE HEIGHT	1.025m
H.A.T	1.779m
M.H.W.S	0.909m
M.H.W.N.	0.249m
M.S.L	0.019m
M.L.W.N	-0.211m
M.S.L	-0.881m
M.S.L	-1.581m



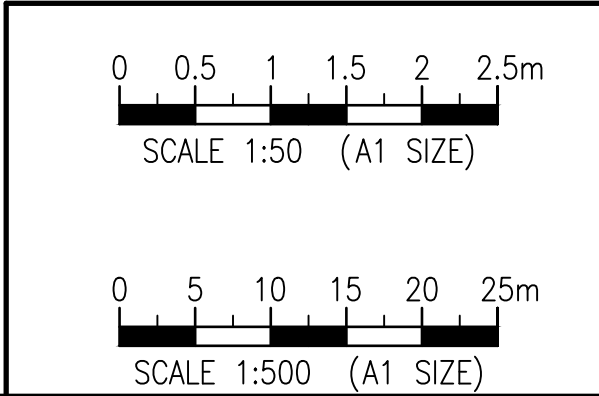
EASEMENT DRAIN UPGRADE
SCALE 1:50



BRUCE HIGHWAY BUND
SCALE 1:50

PRELIMINARY ONLY

NOTE :
BUND TO BE CONSTRUCTED ON
TMR ROAD RESERVE BOUNDARY



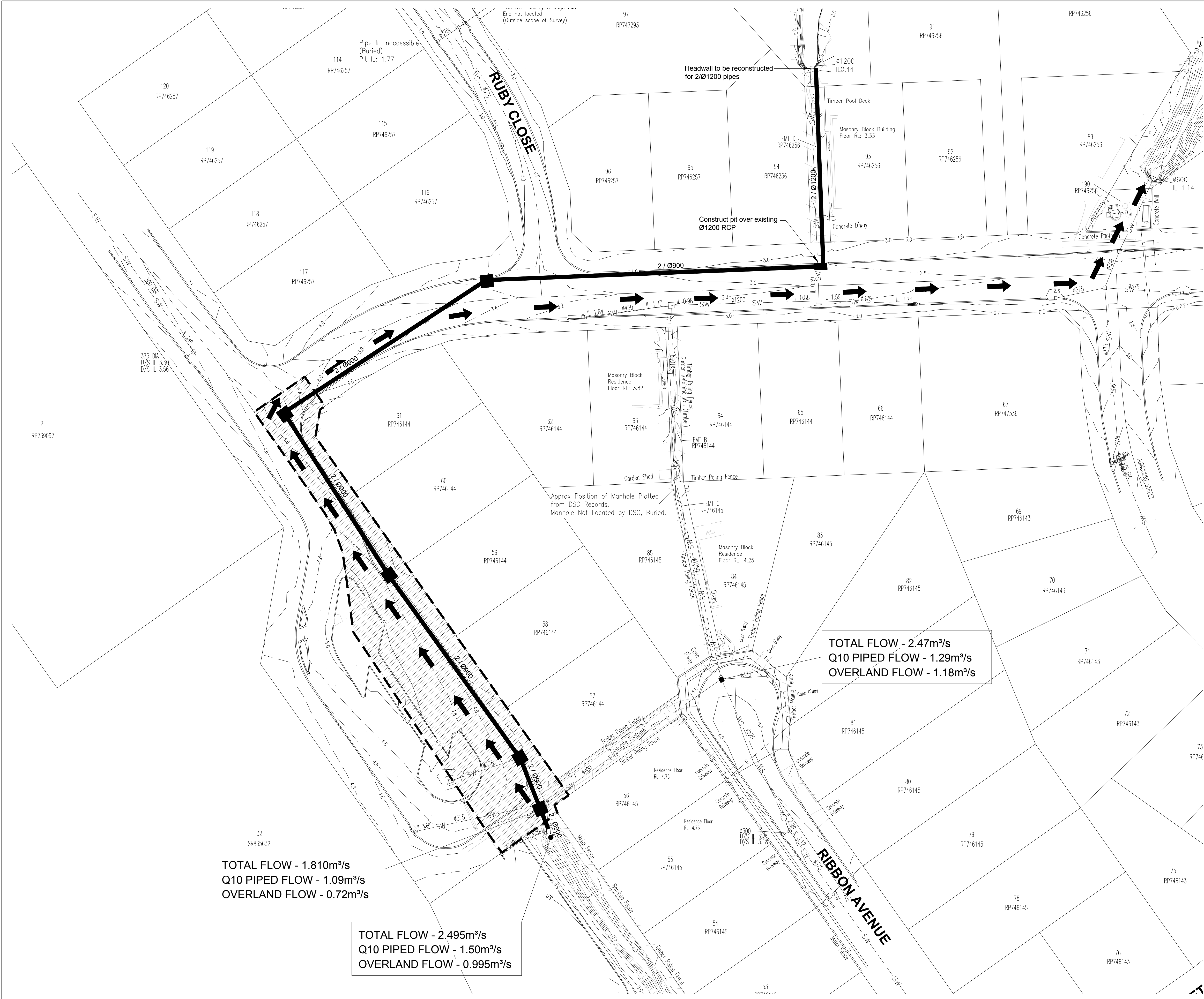
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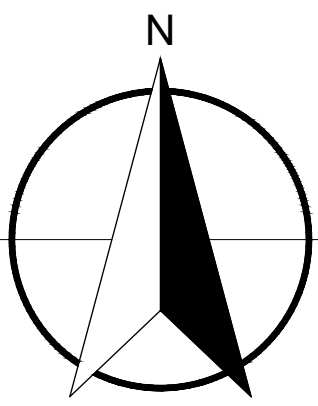
Client	DOUGLAS SHIRE COUNCIL			
Project	RIBBON AVENUE DRAINAGE INVESTIGATION			
Title	DRAINAGE SOLUTION - OPTION 3 Q100 PIPE NETWORK			
JOB No.	1184	Scale (A1 size)	1:500	Revision
Date	13 AUGUST 2018	Drawing No.	SKETCH 1184-006	D



TOTAL FLOW - 1.810m³/s
Q10 PIPED FLOW - 1.09m³/s
OVERLAND FLOW - 0.72m³/s

TOTAL FLOW - 2.495m³/s
Q10 PIPED FLOW - 1.50m³/s
OVERLAND FLOW - 0.995m³/s

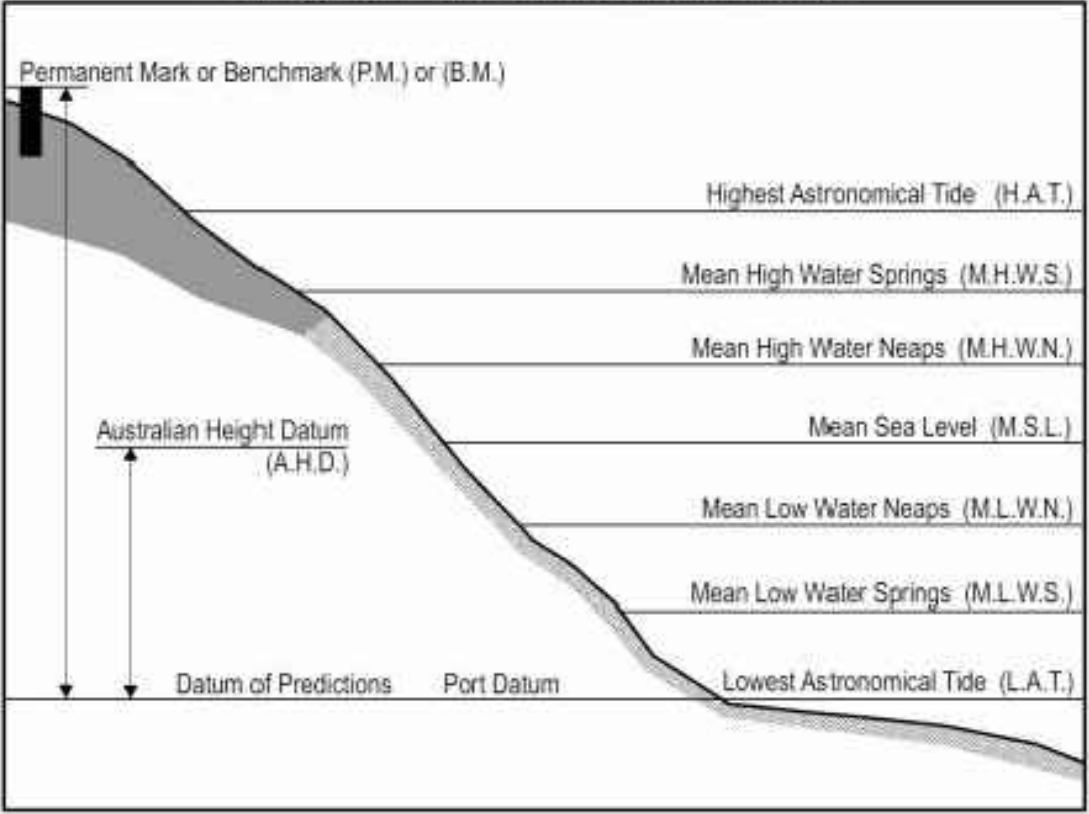
TOTAL FLOW - 2.47m³/s
Q10 PIPED FLOW - 1.29m³/s
OVERLAND FLOW - 1.18m³/s



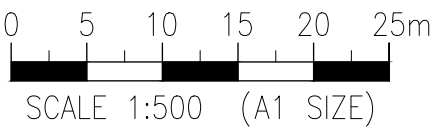
LEGEND

- OVERLAND FLOW DIRECTION
- Q5 PIPE SYSTEM
- ROAD SECTION TO BE REBUILT

Guide to Semidiurnal Tidal Planes



BARRAGE HEIGHT	1.025m
H.A.T	1.779m
M.H.W.S	0.909m
M.H.W.N.	0.249m
M.S.L	0.019m
M.L.W.N	-0.211m
M.S.L	-0.881m
M.S.L	-1.581m



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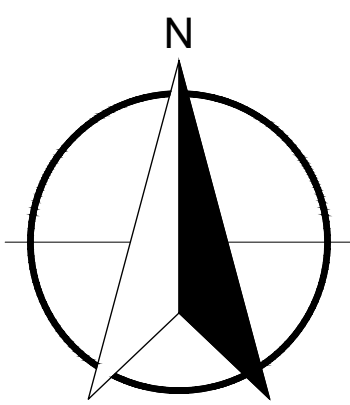
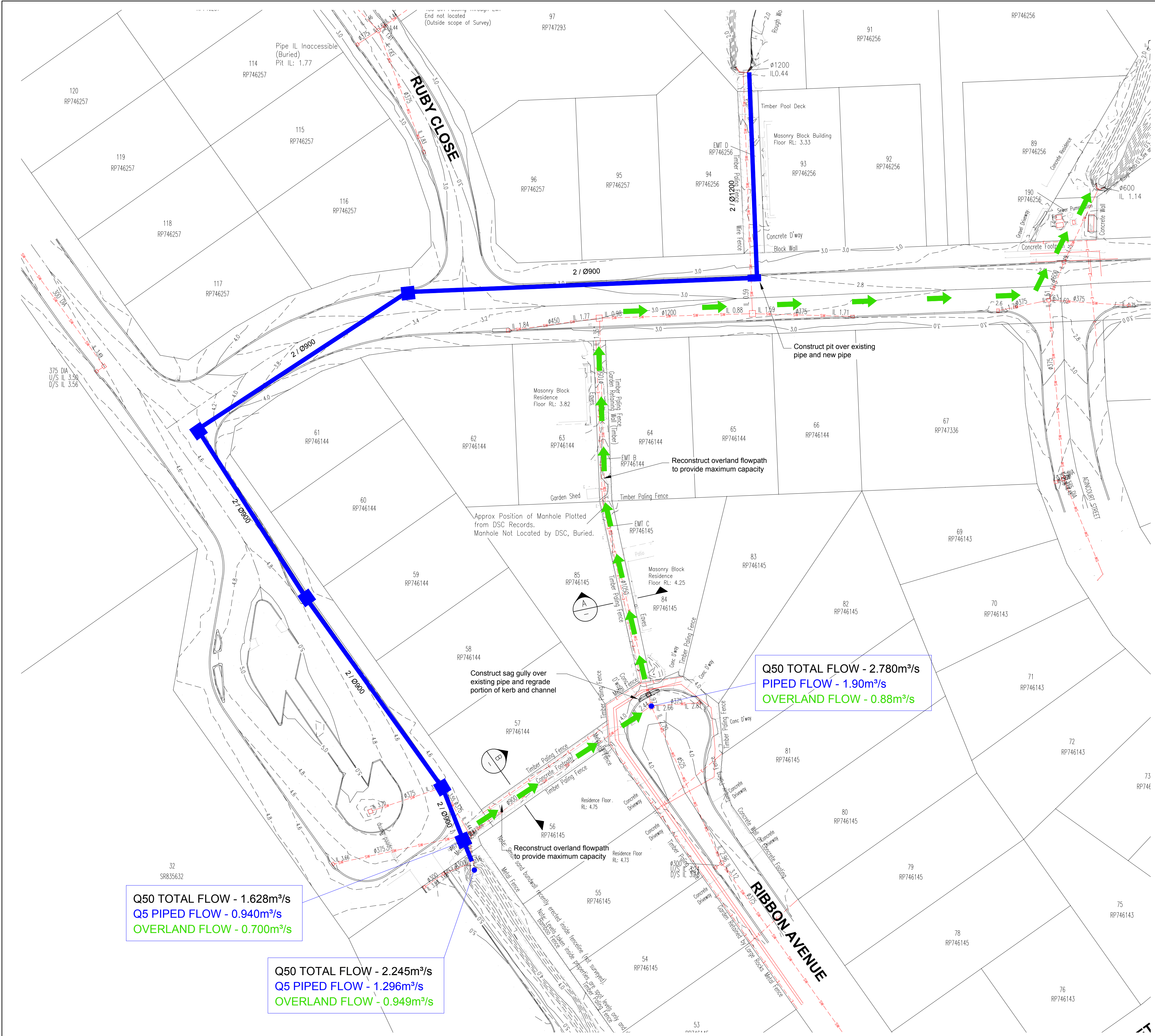
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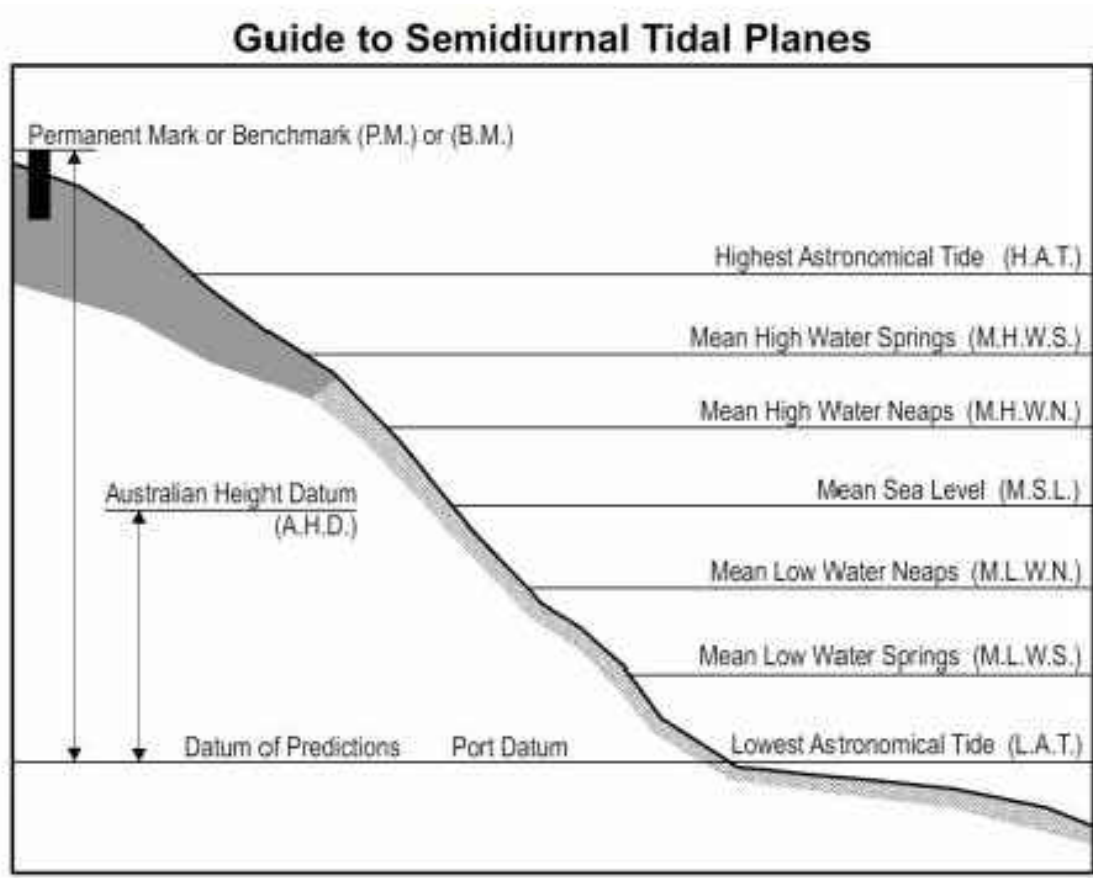
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Client DOUGLAS SHIRE COUNCIL			
Project RIBBON AVENUE DRAINAGE INVESTIGATION			
Title DRAINAGE SOLUTION - OPTION 4 Q10 PIPE NETWORK & ROAD RECONSTRUCTION FOR Q100			
JOB No. 1184	Scale (A1 size) 1:500	Date 10 APRIL 2018	Drawing No. SKETCH 1184-007
			Revision B

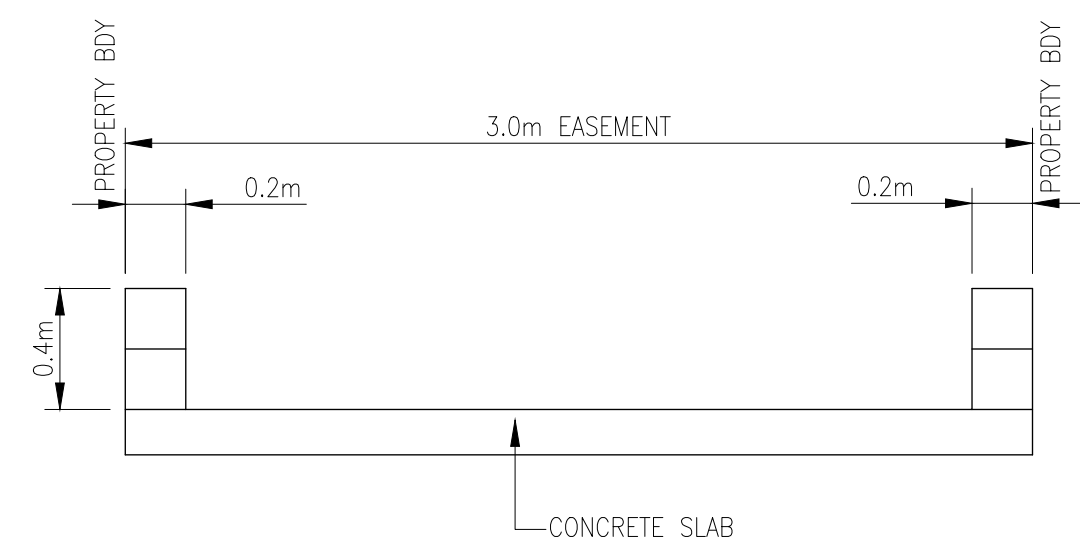


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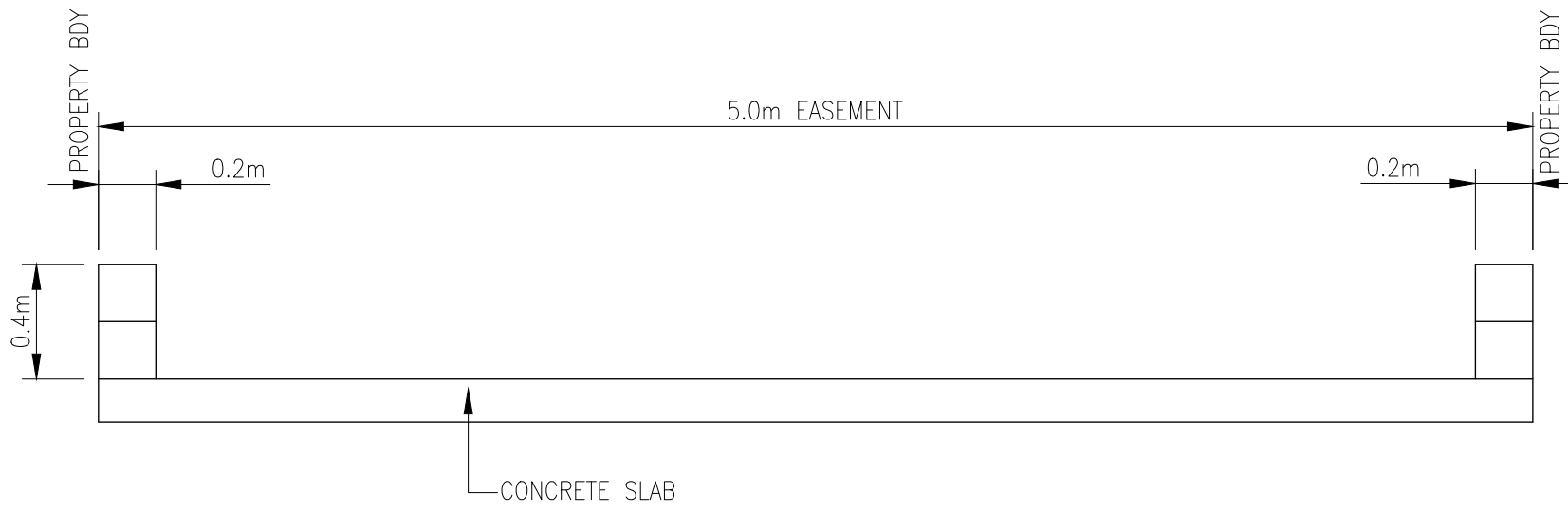
- OVERLAND FLOW DIRECTION
- Q5 PIPE SYSTEM
- ROAD SECTION TO BE REBUILT



BARRAGE HEIGHT	1.025m
H.A.T	1.779m
M.H.W.S	0.909m
M.H.W.N.	0.249m
M.S.L	0.019m
M.L.W.N	-0.211m
M.S.L	-0.881m
M.S.L	-1.581m



3.0m WIDE OVERLAND FLOWPATH
SCALE 1:25



5.0m WIDE OVERLAND FLOWPATH
SCALE 1:25

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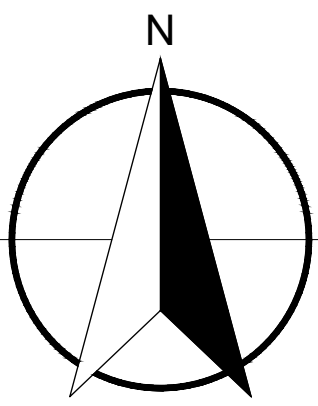
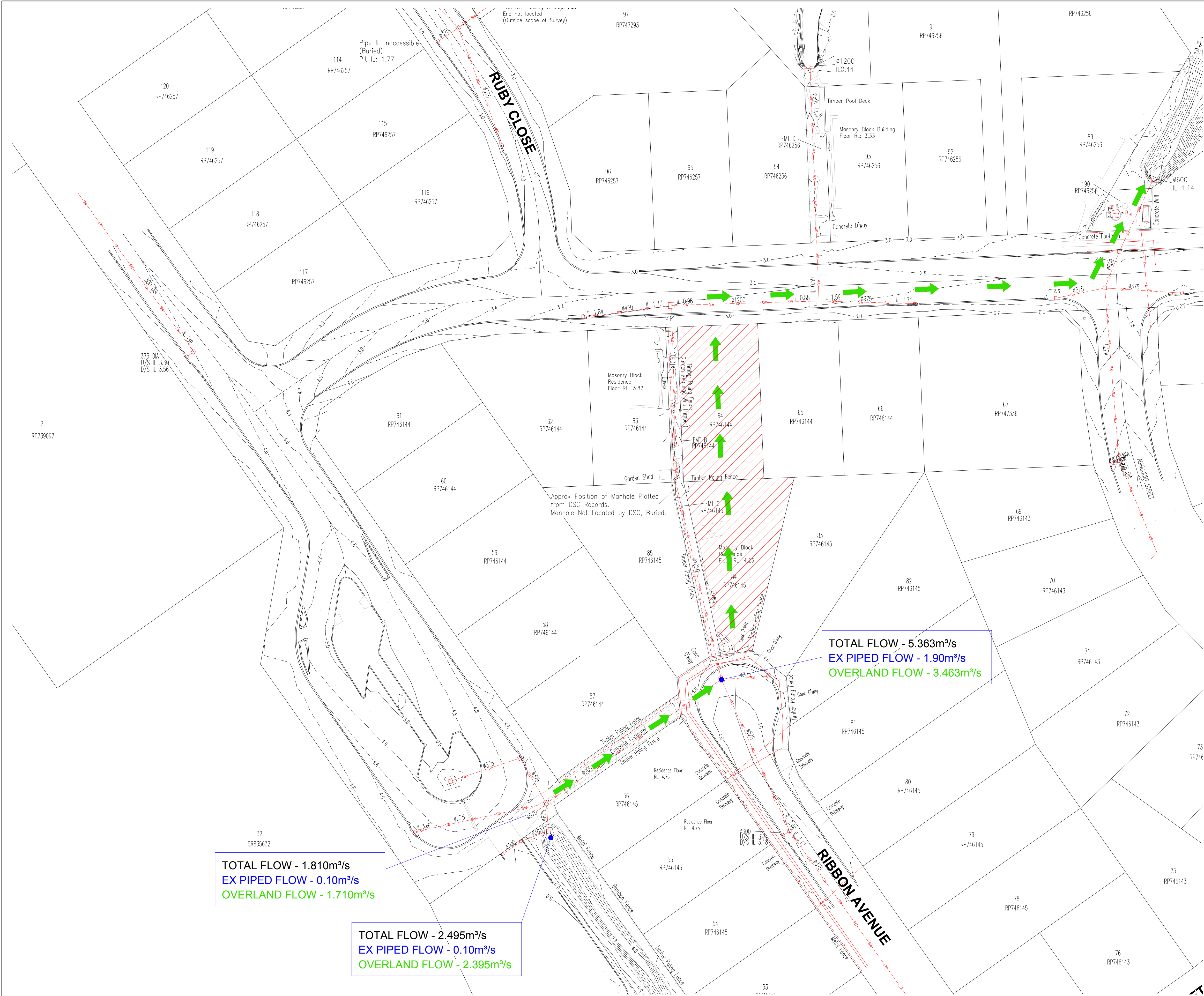
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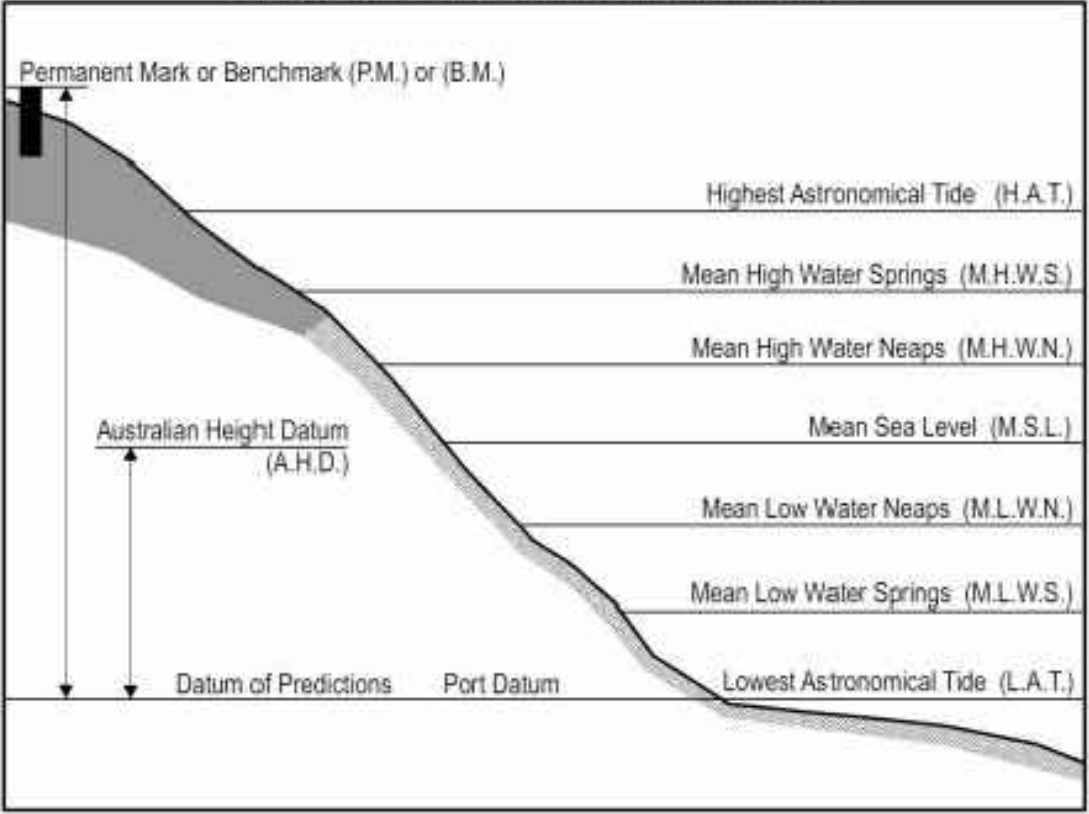
Client	DOUGLAS SHIRE COUNCIL			
Project	RIBBON AVENUE DRAINAGE INVESTIGATION			
Title	DRAINAGE SOLUTION - OPTION 5 Q5 PIPE NETWORK & PATHWAY RECONSTRUCTION FOR Q100			
JOB No.	1184	Scale (A1 size)	1:500	Date
				1 MARCH 2018
Drawing No.	SKETCH 1184-008	Revision	A	



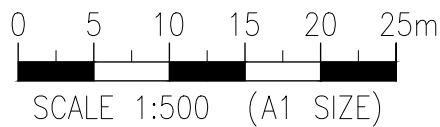
LEGEND

- OVERLAND FLOW DIRECTION
- RESUMPTION

Guide to Semidiurnal Tidal Planes



BARRAGE HEIGHT	1.025m
H.A.T	1.779m
M.H.W.S	0.909m
M.H.W.N.	0.249m
M.S.L	0.019m
M.L.W.N	-0.211m
M.S.L	-0.881m
M.S.L	-1.581m



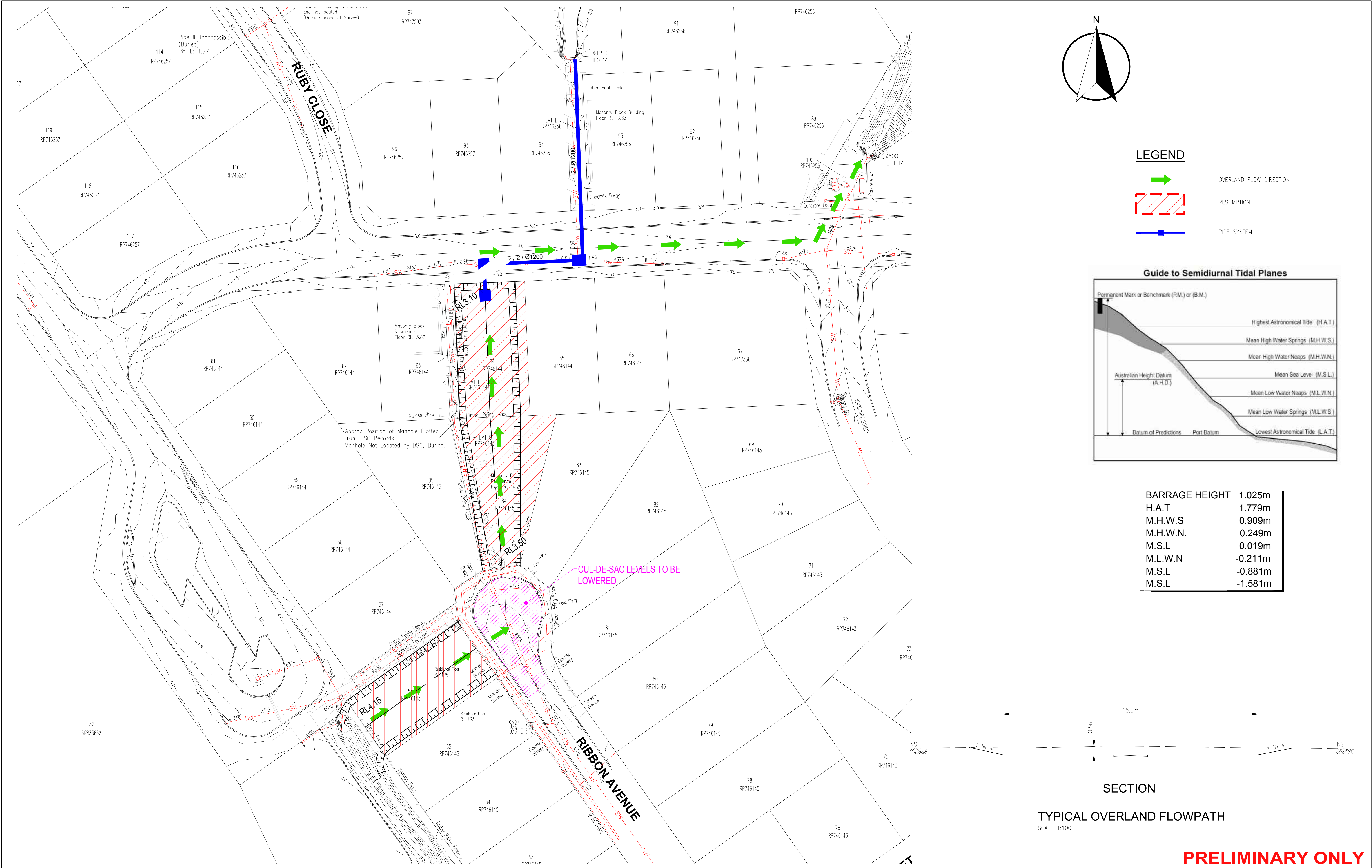
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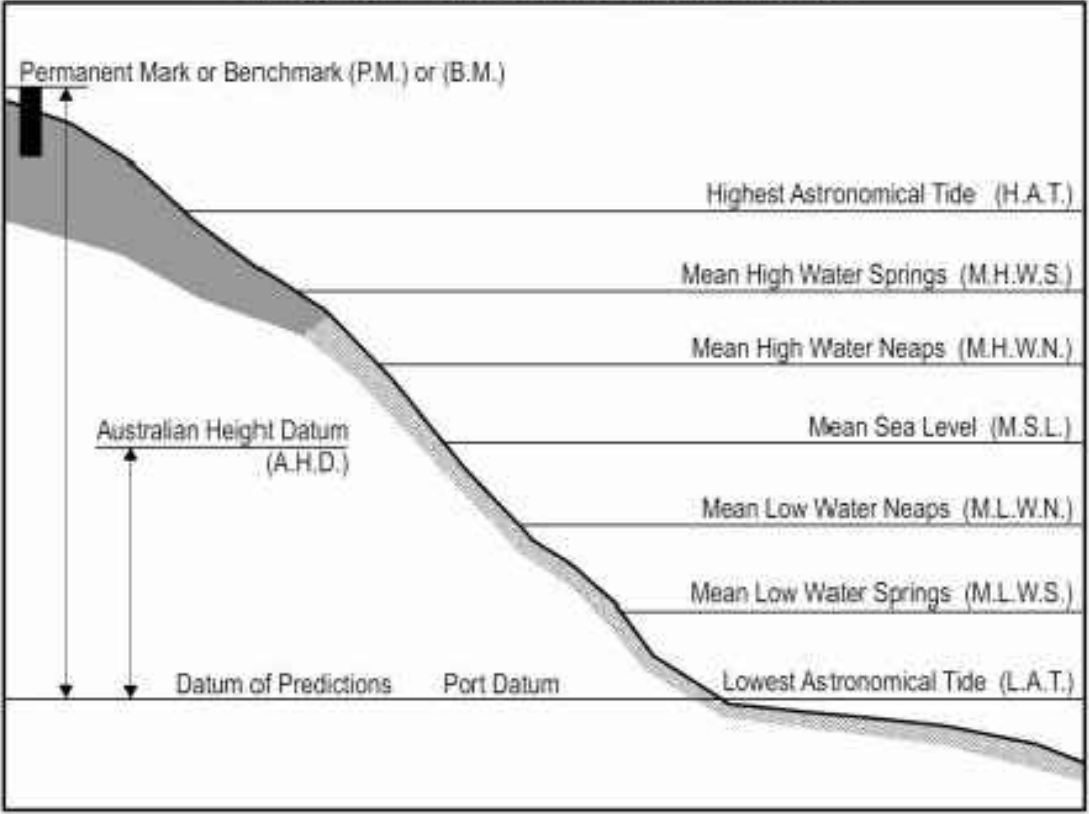
Client DOUGLAS SHIRE COUNCIL				
Project RIBBON AVENUE DRAINAGE INVESTIGATION				
Title DRAINAGE SOLUTION - OPTION 6 RESUMPTION OF LOT 84 ON RP746145 & LOT 64 ON RP746144				
JOB No. 1184	Scale (A1 size) 1:500	Date 1 MARCH 2018	Drawing No. SKETCH 1184-009	Revision A



LEGEND

- OVERLAND FLOW DIRECTION
- RESUMPTION
- PIPE SYSTEM

Guide to Semidiurnal Tidal Planes



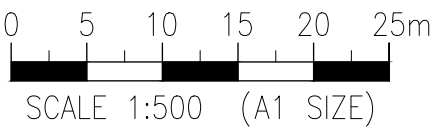
BARRAGE HEIGHT	1.025m
H.A.T	1.779m
M.H.W.S	0.909m
M.H.W.N.	0.249m
M.S.L	0.019m
M.L.W.N	-0.211m
M.S.L	-0.881m
M.S.L	-1.581m

SECTION

TYPICAL OVERLAND FLOWPATH

SCALE 1:100

PRELIMINARY ONLY



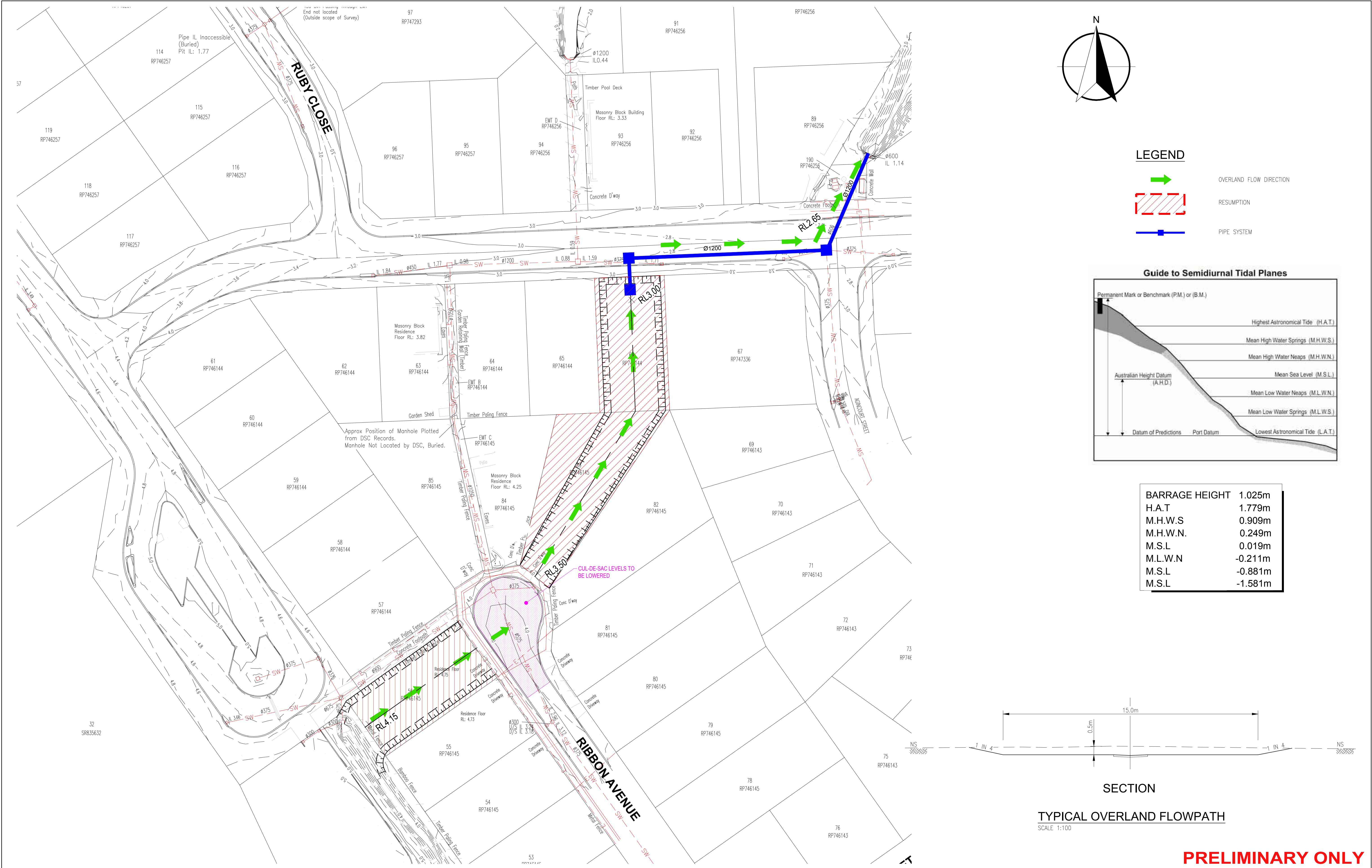
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Client	DOUGLAS SHIRE COUNCIL				
Project	RIBBON AVENUE DRAINAGE INVESTIGATION				
Title	DRAINAGE SOLUTION - OPTION 7A RESUMPTION OF LOTS 56&84 ON RP746145 & LOT 64 ON RP746144				
JOB No.	1184	Scale (A1 size)	1:500	Date	17 APRIL 2018
Drawing No.	SKETCH 1184-015	Revision	A		



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0 5 10 15 20 25m

SCALE 1:500 (A1 SIZE)

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Client

DOUGLAS SHIRE COUNCIL

Project

RIBBON AVENUE DRAINAGE INVESTIGATION

Title

DRAINAGE SOLUTION - OPTION 7B
RESUMPTION OF LOT 56&83 ON RP746145 & LOT 66 ON RP746144

JOB No.

1184

Scale (A1 size)

1:500

Date

17 APRIL 2018

Drawing No.

SKETCH 1184-016

Revision

A

