

**EXISTING MOTORWAY DRAINAGE ELEMENTS**

Inlet Pit	900 mm RCP
Junction Pit	1050 mm RCP
Headwall	1200 mm RCP
375 mm RCP	1350 mm RCP
450 mm RCP	1500 mm RCP
600 mm RCP	1800 mm RCP
675 mm RCP	Unknown
750mm RCP	XD1
	2 off 4200 x 1800 RCBC'S

**LEGEND**

Overland Flow Path	M5 East Motorway Property Boundary
Direction of Piped Flow	M5 South West Motorway Lease Boundary

**NOTES:**  
 1. LOCAL STORMWATER DRAINAGE SYSTEM EXTERNAL TO MOTORWAY CORRIDOR NOT SHOWN  
 2. EXISTING TABLE DRAINS ALONG MOTORWAY CORRIDOR NOT SHOWN  
 3. CONTOURS ARE SHOWN AT 0.5m INTERVALS

**KING GEORGES ROAD INTERCHANGE UPGRADE  
 FLOODING AND DRAINAGE INVESTIGATION**

Figure 3.1  
 Sheet 2 of 2

LAYOUT OF EXISTING MOTORWAY DRAINAGE SYSTEM IN VICINITY OF KGRIU PROJECT

**DRAINAGE ELEMENTS COMPRISING CONCEPT PAVEMENT DRAINAGE SYSTEM**

**EXISTING DRAINAGE ELEMENTS**

- Pit to Remain
- ⊕ Pit to be Adjusted
- ⊕ Pit to be Abandoned/Demolished
- Pit to be Converted to Buried Junction Pit
- Headwall to Remain
- ▬ Pipe to Remain
- - - Pipe to be Abandoned/Demolished

**NEW DRAINAGE ELEMENTS**

- SA2 Pit (MD.R11.B01.A)
- SAS Pit (MD.R11.B01.A)
- SO2 Pit (MD.R11.B24.A)
- GP-TF-SG Pit (MD.R11.B24.A)
- MGOS Pit (MD.R11.B31.A)
- ▼ New Headwall (MD.RD11.A02.A)
- ▬ F-Type Barrier Trench Drain (Special)
- ▬ 375 mm RCP
- ▬ 450 mm RCP
- ▬ 525 mm RCP
- ▬ 600 mm RCP
- ▬ 675 mm RCP
- ▬ 750 mm RCP
- ▬ 825 mm RCP
- ▬ 900 mm RCP
- ▬ 1050 mm RCP
- ▬ 1800 mm RCP



JOINS SHEET 2 OF 2



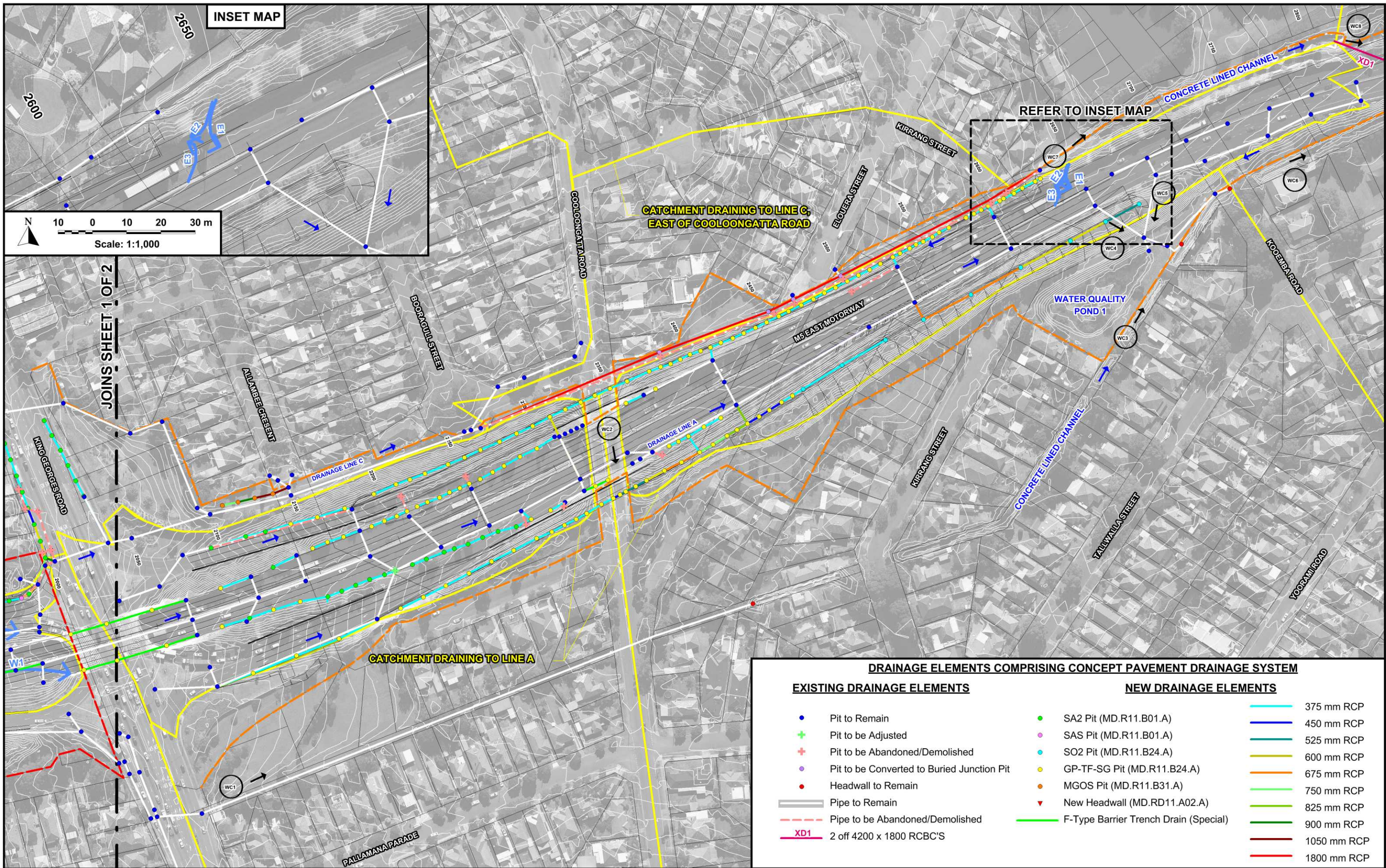
- NOTES:**
1. LOCAL STORMWATER DRAINAGE SYSTEM EXTERNAL TO MOTORWAY CORRIDOR NOT SHOWN
  2. EXISTING TABLE DRAINS ALONG MOTORWAY CORRIDOR NOT SHOWN
  3. CONTOURS ARE SHOWN AT 0.5m INTERVALS

**LEGEND**

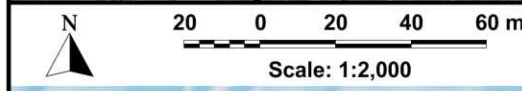
- ▬ M5 East Motorway Property Boundary
- ▬ M5 South West Motorway Lease Boundary
- ▬ Design Strings
- W1 Aquaplaning Flowpath Check and Identifier
- SPC1 Peak Flow Location and Identifier

**KING GEORGES ROAD INTERCHANGE UPGRADE FLOODING AND DRAINAGE INVESTIGATION**

Figure 4.1  
Sheet 1 of 2



JOINS SHEET 1 OF 2



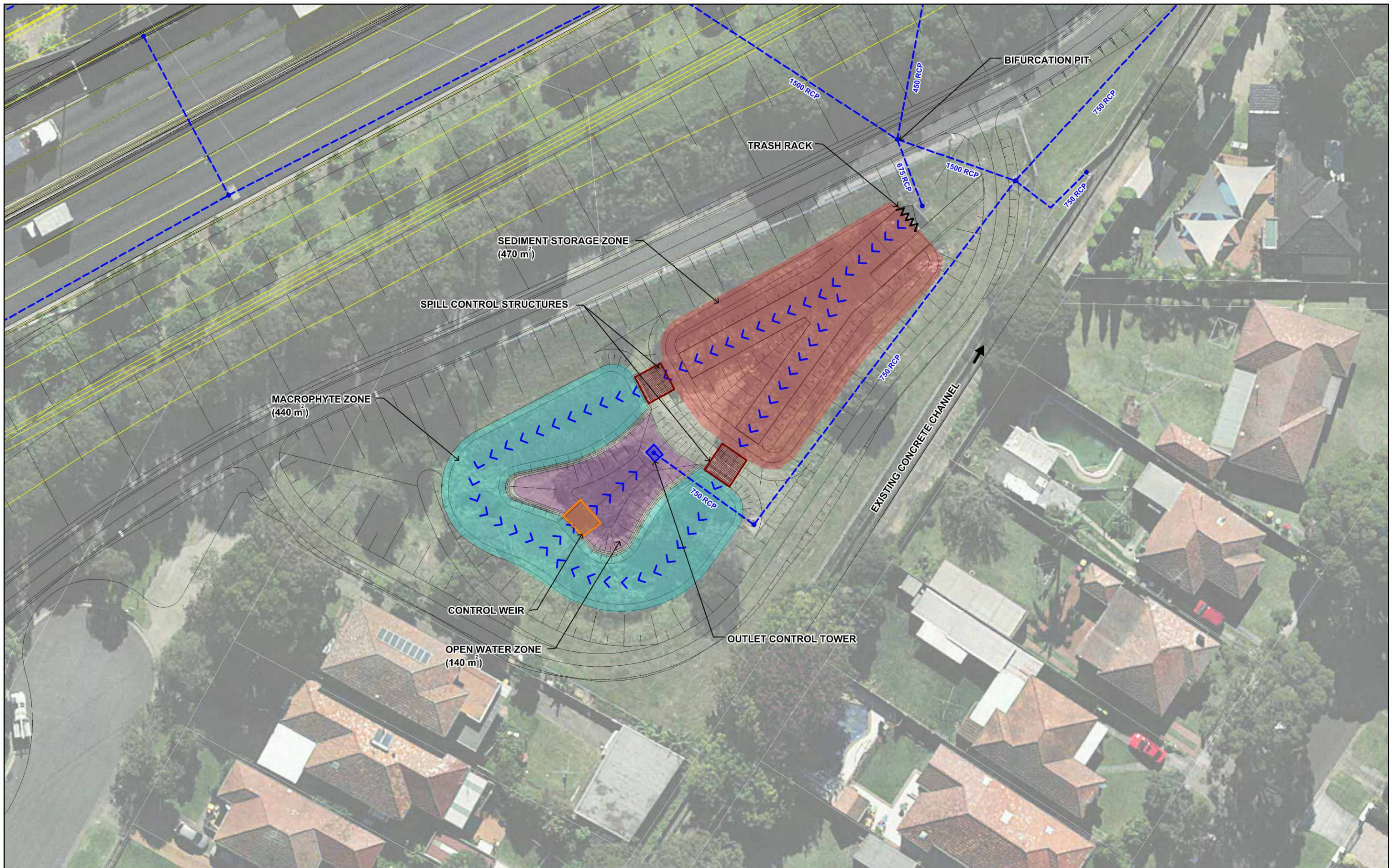
- NOTES:**
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  2. EXISTING TABLE DRAINS ALONG MOTORWAY CORRIDOR NOT SHOWN
  3. CONTOURS ARE SHOWN AT 0.5m INTERVALS

- M5 East Motorway Property Boundary
- M5 South West Motorway Lease Boundary

- LEGEND**
- Design Strings
  - Aquaplaning Flowpath Check and Identifier (W1)
  - Peak Flow Location and Identifier (SPC1)

EXISTING DRAINAGE ELEMENTS		NEW DRAINAGE ELEMENTS	
● Pit to Remain	● SA2 Pit (MD.R11.B01.A)	375 mm RCP	
+ Pit to be Adjusted	● SAS Pit (MD.R11.B01.A)	450 mm RCP	
+ Pit to be Abandoned/Demolished	● SO2 Pit (MD.R11.B24.A)	525 mm RCP	
● Pit to be Converted to Buried Junction Pit	● GP-TF-SG Pit (MD.R11.B24.A)	600 mm RCP	
● Headwall to Remain	● MGOS Pit (MD.R11.B31.A)	675 mm RCP	
— Pipe to Remain	▼ New Headwall (MD.RD11.A02.A)	750 mm RCP	
- - - Pipe to be Abandoned/Demolished	— F-Type Barrier Trench Drain (Special)	825 mm RCP	
XD1 2 off 4200 x 1800 RCBC'S		900 mm RCP	
		1050 mm RCP	
		1800 mm RCP	

**KING GEORGES ROAD INTERCHANGE UPGRADE  
FLOODING AND DRAINAGE INVESTIGATION**



**LEGEND**

- |   |                                 |   |                       |
|---|---------------------------------|---|-----------------------|
|  | Original M5 East Design Strings |  | Sediment Storage Zone |
|  | WestConnex M5 Design Strings    |  | Macrophyte Zone       |
|   |                                 |  | Open Water Zone       |

**KING GEORGES ROAD INTERCHANGE UPGRADE  
FLOODING AND DRAINAGE INVESTIGATION**

Figure 6.1

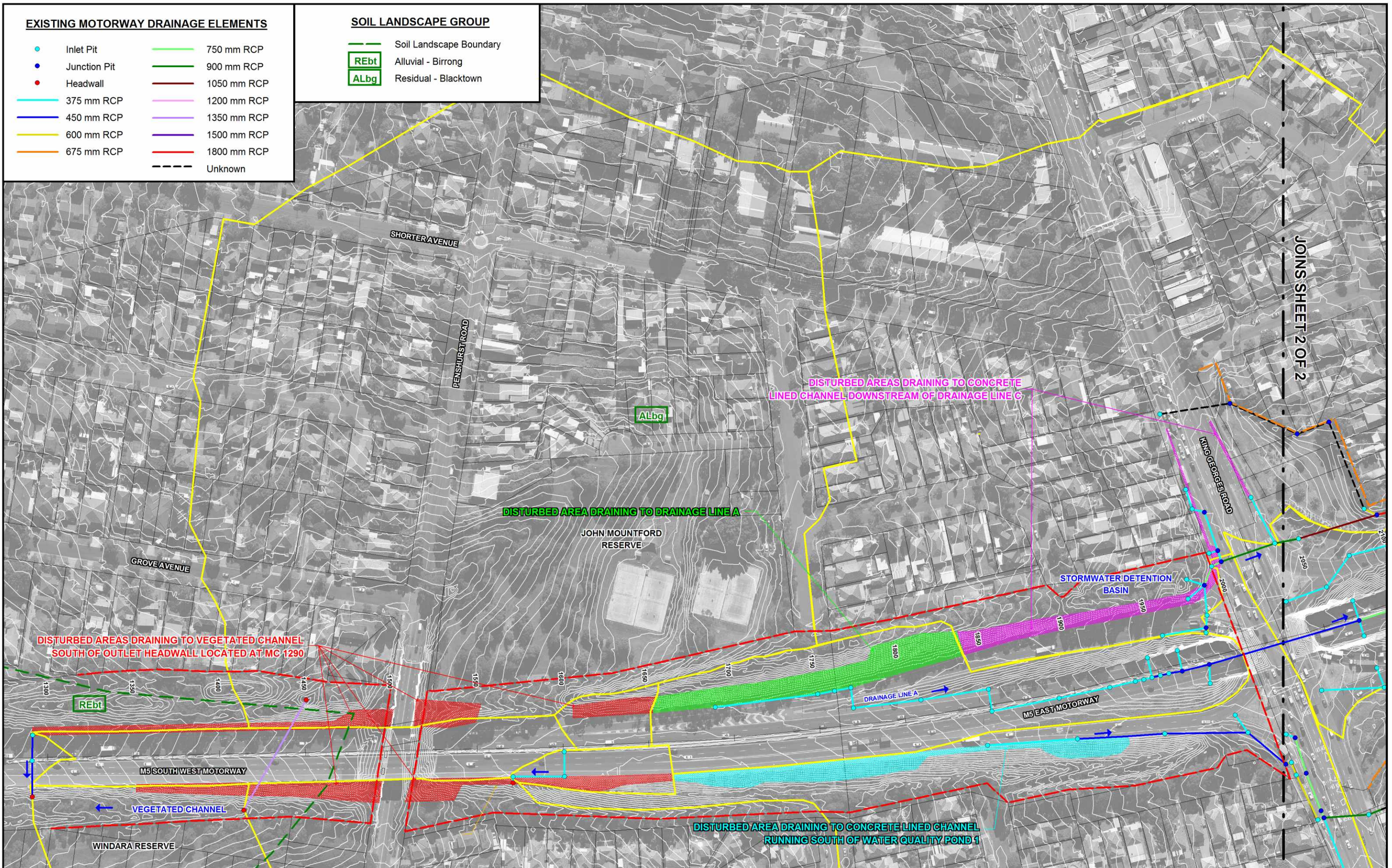
KEY FEATURES OF WATER QUALITY CONTROL POND 1

**EXISTING MOTORWAY DRAINAGE ELEMENTS**

- Inlet Pit
- Junction Pit
- Headwall
- 375 mm RCP
- 450 mm RCP
- 600 mm RCP
- 675 mm RCP
- 750 mm RCP
- 900 mm RCP
- 1050 mm RCP
- 1200 mm RCP
- 1350 mm RCP
- 1500 mm RCP
- 1800 mm RCP
- - - Unknown

**SOIL LANDSCAPE GROUP**

- REbt Soil Landscape Boundary
- ALbg Alluvial - Birrong
- ALbg Residual - Blacktown



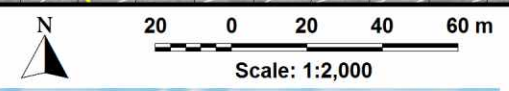
JOINS SHEET 2 OF 2

DISTURBED AREAS DRAINING TO VEGETATED CHANNEL SOUTH OF OUTLET HEADWALL LOCATED AT MC 1290

DISTURBED AREA DRAINING TO DRAINAGE LINE A

DISTURBED AREAS DRAINING TO CONCRETE LINED CHANNEL DOWNSTREAM OF DRAINAGE LINE C

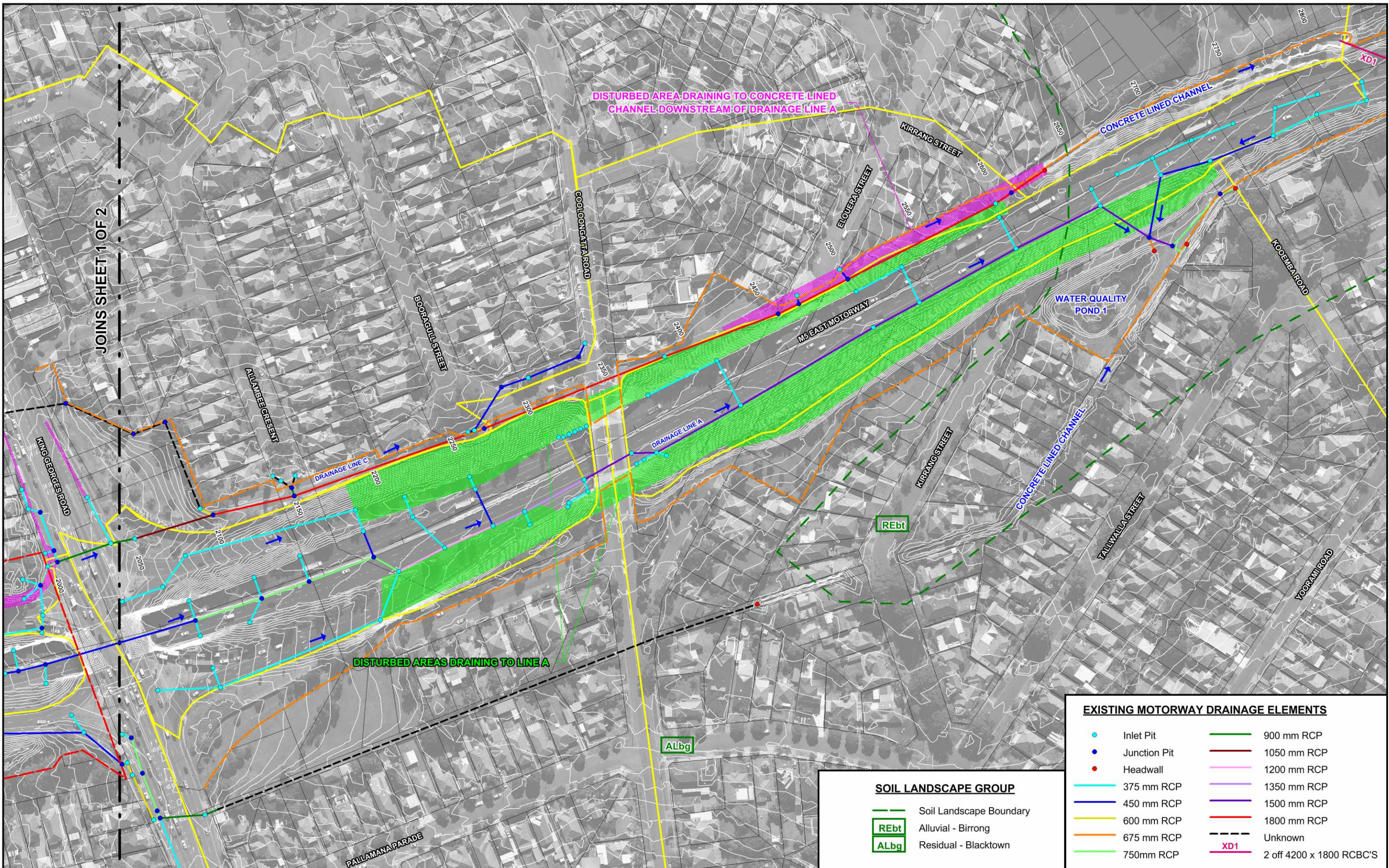
DISTURBED AREA DRAINING TO CONCRETE LINED CHANNEL RUNNING SOUTH OF WATER QUALITY POND 1



- NOTES:**
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  3. CONTOURS SHOWN AT 0.5m INTERVALS

- LEGEND**
- M5 East Motorway Property Boundary
  - M5 South West Motorway Lease Boundary

**KING GEORGES ROAD INTERCHANGE UPGRADE  
FLOODING AND DRAINAGE INVESTIGATION**



JOINS SHEET 1 OF 2

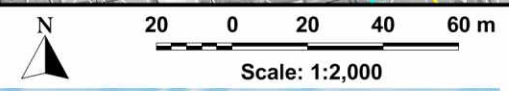
DISTURBED AREA DRAINING TO CONCRETE LINED CHANNEL DOWNSTREAM OF DRAINAGE LINE A

DISTURBED AREAS DRAINING TO LINE A

EXISTING MOTORWAY DRAINAGE ELEMENTS	
<span style="color: cyan;">●</span>	Inlet Pit
<span style="color: blue;">●</span>	Junction Pit
<span style="color: red;">●</span>	Headwall
<span style="color: cyan;">—</span>	375 mm RCP
<span style="color: blue;">—</span>	450 mm RCP
<span style="color: yellow;">—</span>	600 mm RCP
<span style="color: orange;">—</span>	675 mm RCP
<span style="color: green;">—</span>	750mm RCP
<span style="color: green;">—</span>	900 mm RCP
<span style="color: brown;">—</span>	1050 mm RCP
<span style="color: pink;">—</span>	1200 mm RCP
<span style="color: purple;">—</span>	1350 mm RCP
<span style="color: purple;">—</span>	1500 mm RCP
<span style="color: red;">—</span>	1800 mm RCP
<span style="color: black;">- - -</span>	Unknown
<span style="color: pink;">—</span>	XD1 2 off 4200 x 1800 RCBC'S

SOIL LANDSCAPE GROUP	
<span style="color: green;">—</span>	Soil Landscape Boundary
<span style="border: 1px solid green; padding: 2px;">REbt</span>	Alluvial - Birrong
<span style="border: 1px solid green; padding: 2px;">ALbg</span>	Residual - Blacktown

LEGEND	
<span style="color: orange;">—</span>	M5 East Motorway Property Boundary
<span style="color: red;">—</span>	M5 South West Motorway Lease Boundary

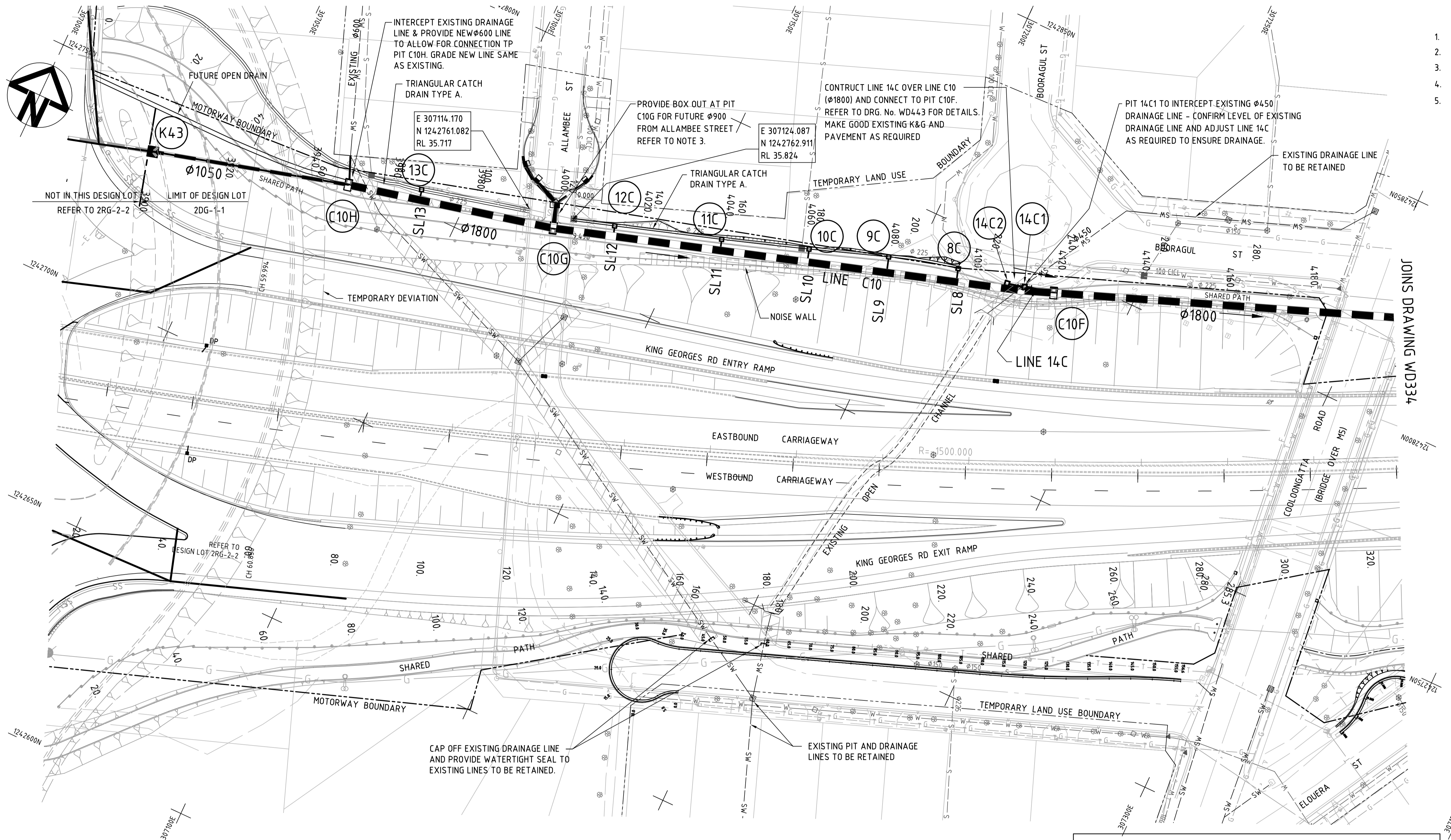


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**KING GEORGES ROAD INTERCHANGE UPGRADE  
FLOODING AND DRAINAGE INVESTIGATION**

**APPENDIX A**

**AS-BUILT DRAWINGS SHOWING LAYOUT OF M5 EAST MOTORWAY TRANSVERSE DRAINAGE**



- NOTES**
- FOR NOTES & LEGEND REFER DRG WD005
  - FOR LONG SECTION OF LINE C10 REFER WD442
  - REFER TO DESIGN LOT 2RG-6 FOR LOCAL ROAD DRAINAGE.
  - FOR PIT DETAILS REFER DRG WD514 & WD518
  - ADJUSTMENT TO EXISTING SERVICES REFER TO DESIGN LOT 2US-1-1 & 2US-1-3.

**PIT SCHEDULE - MAINLINE C10**

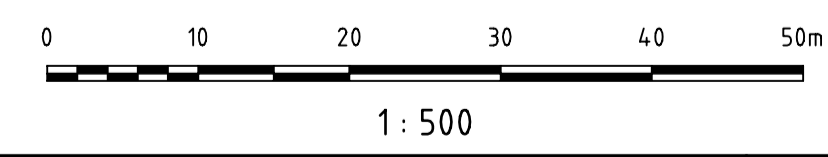
PIT No.	COORDINATES		PIT INVERT	PIT TYPE	REFERENCE DRAWING	REMARKS
	EASTINGS	NORTHINGS				
C10F	307232.490	1242795.010	-	SPECIAL	WD514	JUNCTION PIT
C10G	307120.910	1242759.486	-	SPECIAL	WD514	JUNCTION PIT
C10H	307073.560	1242748.580	-	SPECIAL	WD523	GRATED INLET PIT
K43	NO INFO	NO INFO	-	SPECIAL	WD523	GRATED INLET PIT

**PIT SCHEDULE - SIDELINES**

PIT No.	COORDINATES		PIT INVERT	PIT TYPE	REFERENCE DRAWING	REMARKS
	EASTINGS	NORTHINGS				
8C	307810.105	1242790.625	-	FOR PIT DETAILS REFER TO DRAWING WD518	MD.R11.B01.A	DRAINS CATCH DRAIN
9C	307194.326	1242786.353	-	FOR PIT DETAILS REFER TO DRAWING WD518	MD.R11.B01.A	DRAINS CATCH DRAIN
10C	307176.763	1242870.158	-	FOR PIT DETAILS REFER TO DRAWING WD518	MD.R11.B01.A	DRAINS CATCH DRAIN
11C	307157.373	1242773.647	-	FOR PIT DETAILS REFER TO DRAWING WD518	MD.R11.B01.A	DRAINS CATCH DRAIN
12C	307134.235	1242766.181	-	FOR PIT DETAILS REFER TO DRAWING WD518	MD.R11.B01.A	DRAINS CATCH DRAIN
13C	307089.976	1242754.749	-	FOR PIT DETAILS REFER TO DRAWING WD518	MD.R11.B01.A	DRAINS CATCH DRAIN
14C1	307225.335	1242793.662	-	SAS	MD.R11.B01.A	CONNECT EXISTING Ø450
14C2	307220.645	1242792.704	-	SA1	MD.R11.B01.A	DRAINS BOORAGUL ST

**IMPORTANT NOTE:** SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE RECORDS OF AUTHORITIES. HYDER DOES NOT TAKE RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR PERFORMING THE WORKS SHALL TAKE FULL RESPONSIBILITY IN DETERMINING THE LOCATION OF SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF SERVICES AUTHORITIES PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE.

**"AS BUILT"**



PLAN SCALE 1:500

Rev	Name	Signed	Name	Signed	Date	Description
X						"AS BUILT" DESIGN LOT 2DG-1-1

ISSUED AS BUILT		Prepared By	
Name	Signature	Name	Date
Drafted R. LYFORD			
BHBB Approval			

Consultant  
**Hyder Consulting**  
 HYDER CONSULTING (AUSTRALIA) PTY LTD  
 Level 5  
 116 Miller St  
 North Sydney, NSW, 2060  
 ABN: 34 000 579 046  
 Tel: +61 (0)2 8907 9000  
 Fax: +61 (0)2 8907 9001

Client  
**BHBB M5 East Joint Venture**  
 BAULDERSTONE HORNIBROOK  
 BILFINGER+BERGER  
 BAUKUNGENGESELLSCHAFT

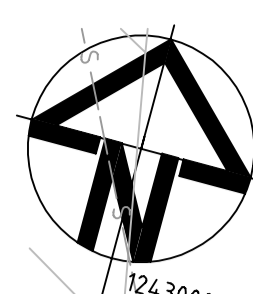
Contract  
**M5 EAST MOTORWAY**

**CROSS DRAINAGE**  
 KING GEORGES RD TO GLAMIS ST  
 LAYOUT PLAN  
 CH 3900 - CH4200  
 SHEET 1 OF 6

Scale: 1:500  
 Project Datum: A.H.D.

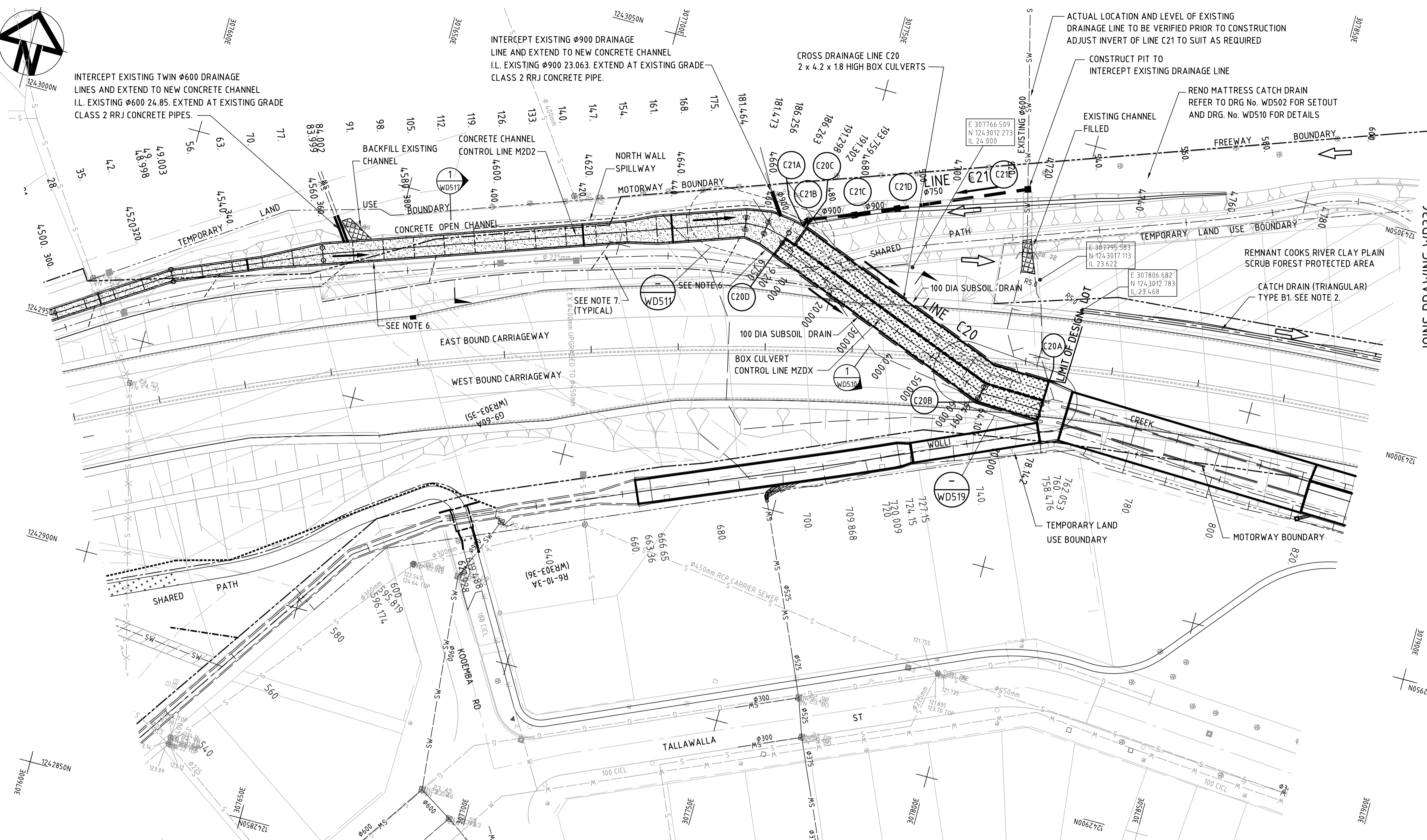
Stage: **A1**  
 Drawing No.: **A**  
 Area: **W**  
 Discipline: **D**  
 Number: **333**  
 Rev: **X**





JOINS DRAWING WD334

JOINS DRAWING WD336



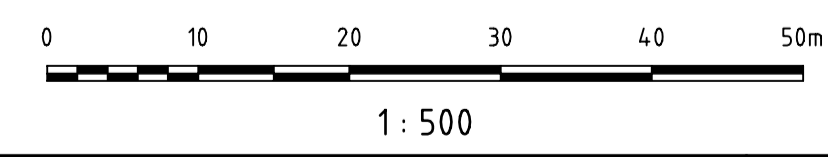
- NOTES**
- FOR NOTES & LEGEND REFER DRG WD005
  - CENTRELINE OF CATCH DRAIN IS GENERALLY OFFSET 0.5m WHEN ADJACENT TO RETAINING WALL REFER TO DESIGN LOT 2ST-5-1 FOR RETAINING WALL DETAILS.
  - AUGMENTATION OF WOLLI CREEK AND CONNECTION OF STORMWATER DRAINS TO WOLLI CREEK REFER TO DESIGN LOT 2EW-2-1.
  - REFER TO WD446 & WD447 FOR CONCRETE CHANNEL LONGITUDINAL SECTIONS.
  - REFER TO WD443 FOR DRAINAGE LONGITUDINAL SECTIONS.
  - REFER TO OPEN CHANNEL LONGITUDINAL SECTION FOR LOCATIONS OF STEP IRONS.
  - REFER TO DRG No. WD517 FOR LOCATION AND DETAILS OF SHARED PATH DRAINAGE.

**IMPORTANT NOTE:** SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE RECORDS OF AUTHORITIES. HYDER DOES NOT TAKE RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR PERFORMING THE WORKS SHALL TAKE FULL RESPONSIBILITY IN DETERMINING THE LOCATION OF SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF SERVICES AUTHORITIES PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE.

PIT SCHEDULE						
PIT No.	COORDINATES		PIT INVERT	PIT TYPE	REFERENCE DRAWING	REMARKS
	EASTINGS	NORTHINGS				
@ C20A	307803.296	1242988.122	21.187	-	WD519	-
@ C20B	307789.255	1242988.514	21.251	BEND	WD519	BC SPLAYED UNITS
@ C20C	307739.696	1243012.571	21.502	INLET HEADWALL	WD511	SPECIAL
@ C20D	307735.728	1243009.090	21.513	INLET HEADWALL	WD511	SPECIAL
C21A	307739.790	1243014.870	-	INLET TO CHANNEL	WD511	
C21B	307740.620	1243016.390	-	INLET SUMP #	MD.R11.B37A	INTERNAL 1200 X 900**
C21C	307750.173	1243020.230	-	INLET SUMP #	MD.R11.B37A	INTERNAL 1200 X 900**
C21D	307760.060	1243024.540	-	INLET SUMP #	MD.R11.B37A	INTERNAL 900 X 900**
C21E	307785.860	1243035.860	-	INLET SUMP #	MD.R11.B37A	INTERNAL 900 X 900**

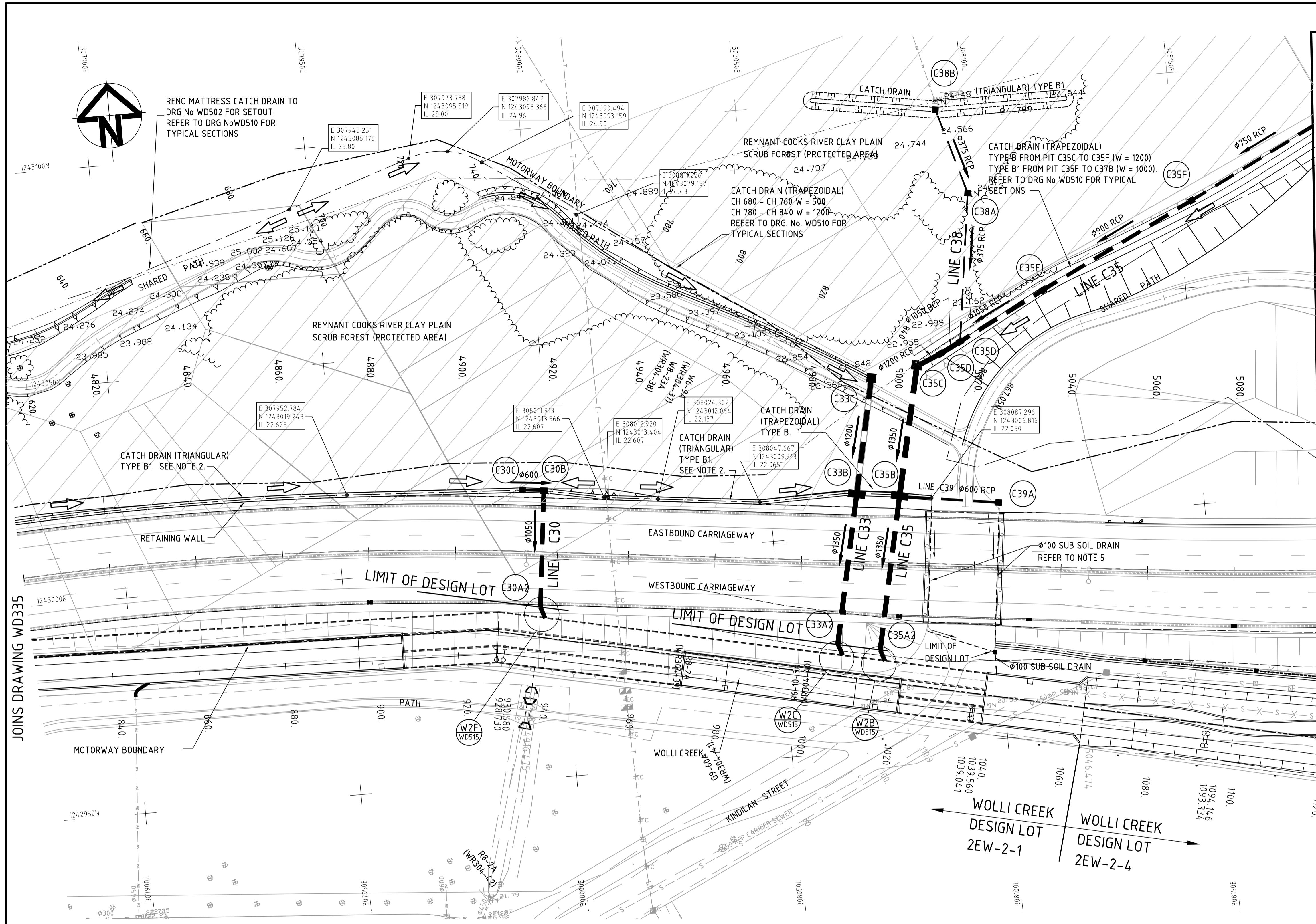
- # DENOTES WITH RAISED GRATE REFER ALSO REF DWG MD.R11.B28A
- + 900 x 900 INTERNAL PIT OPENING (TURRET) WITH WEBFORGE STOCK MSG99HSC H.D. GALVANISED SURCHARGE PIT COVER OR APPROVED EQUIVALENT.
- x REPLACE NOTE 1 ON REFERENCE DRAWING MD.R11.B37A WITH GRADE N25
- @ DENOTES CO-ORDINATES ON CONTROL LINE MZDX

"AS BUILT"



1:500

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Rev</th> <th>Name</th> <th>Signed</th> <th>Date</th> <th>Description</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Rev	Name	Signed	Date	Description						<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3">ISSUED AS BUILT</th> </tr> <tr> <th>Name</th> <th>Signature</th> <th>Date</th> </tr> <tr> <td>Drafted R. LYFORD</td> <td> </td> <td> </td> </tr> <tr> <td>BHBB Approval</td> <td> </td> <td> </td> </tr> </table>	ISSUED AS BUILT			Name	Signature	Date	Drafted R. LYFORD			BHBB Approval			Prepared By Consultant HYDER CONSULTING (AUSTRALIA) PTY LTD Level 5 116 Miller St North Sydney, NSW, 2060 ABN: 34 000 579 046 Tel: +61 (0) 2 8907 9000 Fax: +61 (0) 2 8907 9001	Client BHBB M5 East Joint Venture BAULDERSTONE HORNIBROOK BILFINGER+BERGER BAUKTIENGESELLSCHAFT Contract <b>M5 EAST MOTORWAY</b>	<b>CROSS DRAINAGE</b> <b>KING GEORGES RD TO GLAMIS ST</b> <b>LAYOUT PLAN</b> <b>CH 4500 - CH 4800</b> <b>SHEET 3 OF 6</b> Scale 1:500 Project Datum A.H.D. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="font-size: 2em; font-weight: bold;">A1</td> <td>Stage A</td> <td>Drawing No. W D 335</td> <td>Rev X</td> </tr> <tr> <td style="font-size: 0.8em;">Area</td> <td style="font-size: 0.8em;">Discipline</td> <td style="font-size: 0.8em;">Number</td> <td> </td> </tr> </table>	A1	Stage A	Drawing No. W D 335	Rev X	Area	Discipline	Number	
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Drafted R. LYFORD																																		
BHBB Approval																																		
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Date plotted - 15 Jan 2002 - 3:58 PM AWD335X.dwg																																		



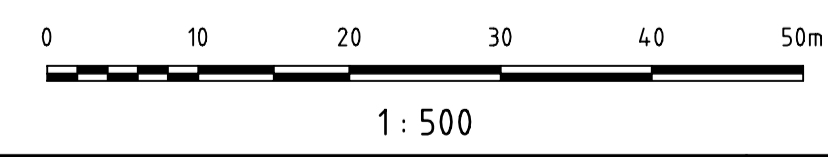
- NOTES**
- FOR NOTES & LEGEND REFER DRG WD005
  - CENTRELINE OF CATCH DRAIN IS GENERALLY OFFSET 0.5m FROM RETAINING WALL (U.N.O.). REFER TO DESIGN LOT 2ST-5-1 FOR RETAINING WALL DETAILS.
  - AUGMENTATION TO WOLLIE CREEK AND CONNECTION OF STORMWATER DRAINS TO WOLLIE CREEK REFER TO DESIGN LOT 2EW-2-1
  - REFER TO WD443 AND WD444 FOR DRAINAGE LONG SECTIONS
  - KINDILAN STREET UNDERPASS. REFER TO DESIGN LOT 2ST-4-5

PIT SCHEDULE						
PIT No.	COORDINATES		PIT INVERT	PIT TYPE	REFERENCE DRAWING	REMARKS
	EASTINGS	NORTHINGS				
C30A2	307995.015	1242989.565	*		WD515	LIMIT OF DESIGN LOT
C30B	307998.190	1243016.370	*	V GRATED INLET	MD.R11.B22A	DRAINS CATCH DRAIN
C30C	307993.193	1243016.973	*	V GRATED INLET	MD.R11.B21A	DRAINS CATCH DRAIN
C33A2	308062.783	1242975.114	*	-	WD515	LIMIT OF DESIGN LOT
C33B	308070.116	1243009.147	*	#	WD516	300 DEEP SILT TRAP
C33C	308075.624	1243034.655	*	#	WD513	SPECIAL
C33D	308096.482	1243041.982	*	-	MD.R11.B37A	INSIDE PIT SIZE 900x900
C33E	308044.396	1243056.833	*	-	MD.R11.B37A	INSIDE PIT SIZE 900x900
C33F	308027.811	1243068.010	*	-	MD.R11.B37A	INSIDE PIT SIZE 900x900
C35A2	308072.430	1242972.874	*	-	WD515	LIMIT OF DESIGN LOT
C35B	308080.025	1243007.953	*	#	WD516	300 DEEP SILT TRAP
C35C	308086.411	1243036.910	*	#	WD513	SPECIAL
C35D	308091.805	1243040.128	*	#	MD.R11.B37A	INSIDE PIT SIZE 1200x1200
C35D1	308091.818	1241040.011	*	#	MD.R11.B37A	INSIDE PIT SIZE 1400 x 1200
C35E	308117.113	1243052.428	*	#	MD.R11.B37A	INSIDE PIT SIZE 1200x1200
C35F	308153.257	1243070.159	*	#	MD.R11.B37A	INSIDE PIT SIZE 1200x1200
C38A	308101.74	1243076.34	*	JUNCTION	MD.R11.B40	INSIDE PIT SIZE 900x600
C38B	308095.99	1243096.13	*	V GRATED INLET	MD.R11.B37A	DRAINS CATCH DRAIN
C39A	308102.160	1243004.459	*	#	MD.R11.B37A	INSIDE PIT SIZE 900x900

- \* REFER TO LONGITUDINAL SECTIONS FOR INVERTS
- # INLET SUMP WITH RAISED GRATE
- 900 x 900 INTERNAL PIT OPENING SIZE WITH WEBFORGE STOCK MSG99HSC HD GALVANISED SURCHARGE PIT COVER OR APPROVED EQUIVALENT
- 1200 x 1200 INTERNAL PIT OPENING SIZE WITH WEBFORGE STOCK MSG1212HSC HD GALVANISED SURCHARGE PIT COVER OR APPROVED EQUIVALENT

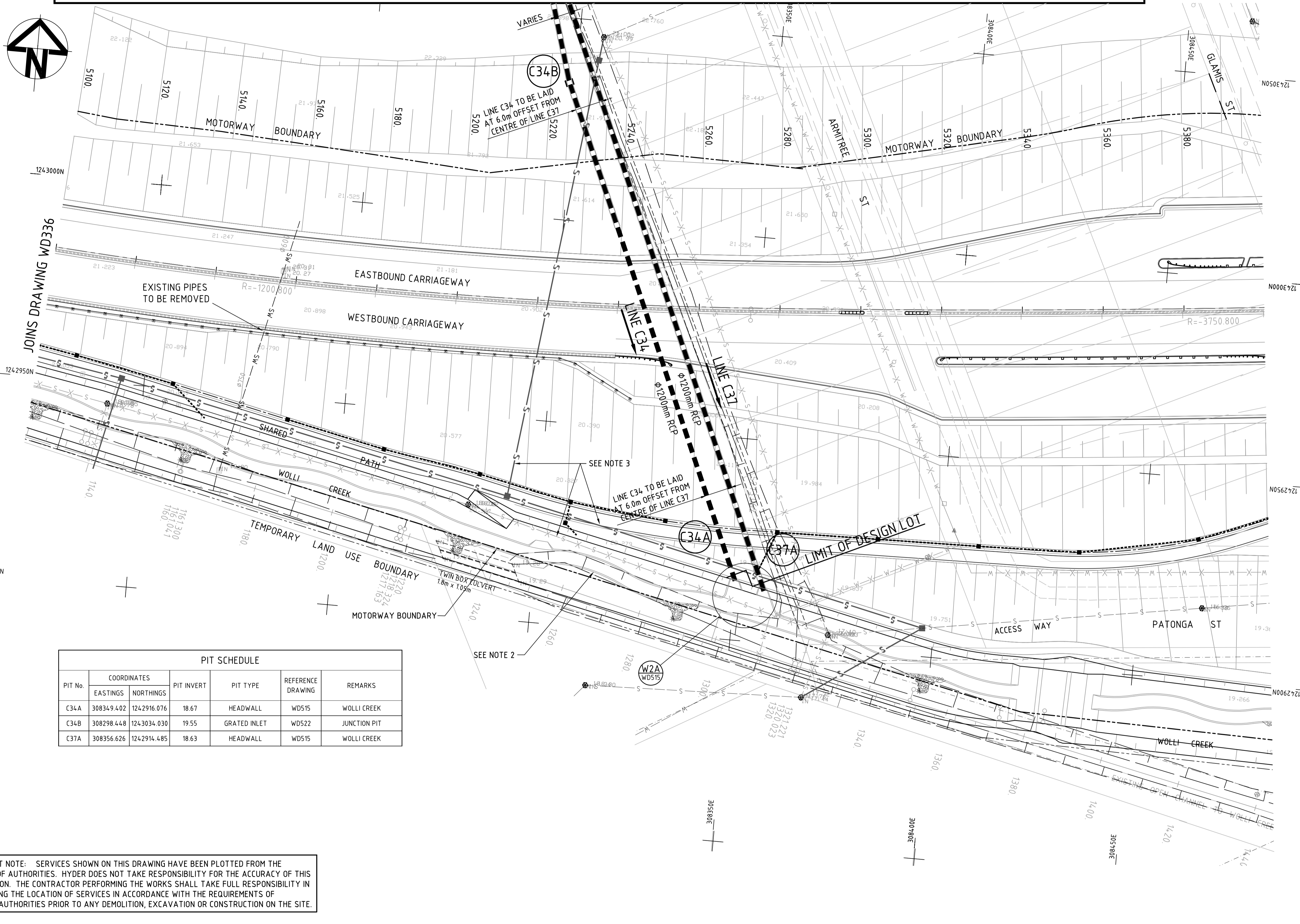
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"AS BUILT"



ISSUED AS BUILT Name: R. LYFORD Signature: _____ Date: _____		Prepared By: _____ Consultant: <b>Hyder Consulting</b> HYDER CONSULTING (AUSTRALIA) PTY LTD Level 5 116 Miller St North Sydney, NSW, 2060 ABN: 34 000 579 046 Tel: +61 (0)2 8907 9000 Fax: +61 (0)2 8907 9001	Client: <b>BHBB M5 East Joint Venture</b> BAULDERSTONE HORNIBROOK   BILFINGER+BERGER BAUKTIENGESELLSCHAFT Contract: <b>M5 EAST MOTORWAY</b>	<b>CROSS DRAINAGE</b> <b>KING GEORGES RD TO GLAMIS ST</b> <b>LAYOUT PLAN</b> <b>CH 4800 - CH 5100</b> <b>SHEET 4 OF 6</b>
AS BUILT: DESIGN LOT 2DG-1-1 Description: _____		Scale: 1:500 Project Datum: A.H.D.		Stage: <b>A1</b> Drawing No.: <b>W D 336</b> Area Discipline Number: _____ Rev: <b>X</b>

JOINS DRAWING WD345



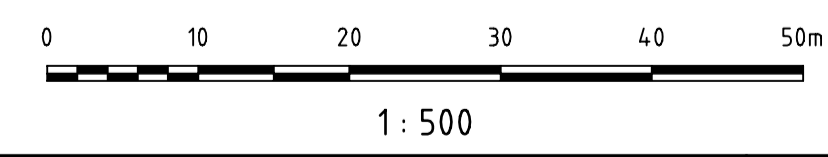
- NOTES**
1. FOR NOTES & LEGEND REFER DRG WD005
  2. AUGMENTATION TO WOLLI CREEK AND CONNECTION OF STORMWATER DRAINS TO WOLLI CREEK, REFER TO DESIGN LOT 2EW-2-4.
  3. ADJUSTMENTS TO EXISTING SERVICES, REFER TO DESIGN LOT 2US-1-3.
  4. REFER TO DRG No. WD445 FOR DRAINAGE LONGITUDINAL SECTIONS.

**PIT SCHEDULE**

PIT No.	COORDINATES		PIT INVERT	PIT TYPE	REFERENCE DRAWING	REMARKS
	EASTINGS	NORTHINGS				
C34A	308349.402	1242916.076	18.67	HEADWALL	WD515	WOLLI CREEK
C34B	308298.448	1243034.030	19.55	GRATED INLET	WD522	JUNCTION PIT
C37A	308356.626	1242914.485	18.63	HEADWALL	WD515	WOLLI CREEK

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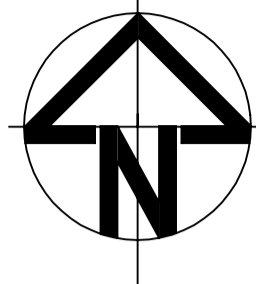
"AS BUILT"



<table border="1"> <tr> <th>ISSUED</th> <th>AS BUILT</th> </tr> <tr> <td>Name</td> <td>Signature</td> </tr> <tr> <td>Drafted</td> <td>R. LYFORD</td> </tr> <tr> <td>BHBB Approval</td> <td></td> </tr> </table>	ISSUED	AS BUILT	Name	Signature	Drafted	R. LYFORD	BHBB Approval		Prepared By Consultant HYDER CONSULTING (AUSTRALIA) PTY LTD Level 5 116 Miller St North Sydney, NSW, 2060 ABN: 34 000 579 046 Tel: +61 (0)2 8907 9000 Fax: +61 (0)2 8907 9001	Client BHBB M5 East Joint Venture BAULDERSTONE HORNIBROOK   BILFINGER + BERGER BAUKTIENGESELLSCHAFT Contract <b>M5 EAST MOTORWAY</b>	CROSS DRAINAGE KING GEORGES RD TO GLAMIS ST LAYOUT PLAN CH 5100 - CH 5400 SHEET 5 OF 6 Scale: 1:500 Project Datum: A.H.D.
	ISSUED	AS BUILT									
Name	Signature										
Drafted	R. LYFORD										
BHBB Approval											
Description "AS BUILT" DESIGN LOT 2DG-1-1	Stage: A1 Drawing No.: W D 337 Area Discipline: Number Rev: X	Scale: 1:500 Project Datum: A.H.D.	Scale: 1:500 Project Datum: A.H.D.								

**APPENDIX B**

**AS-BUILT DRAWINGS SHOWING LAYOUT OF M5 EAST MOTORWAY PAVEMENT DRAINAGE**



**SUBSOIL DRAINS**

LABEL	LENGTH (m)	TYPE
SD-A54	59.0	N/A
SD-A55	33.0	N/A
SD-A56	63.0	N/A
SD-A56A	62.0	N/A
SD-A57	11.5	6
SD-A58	80.0	N/A
SD-A59	63.0	N/A
SD-A59A	64.0	N/A
SD-A60	14.0	N/A
SD-A62	6.0	N/A

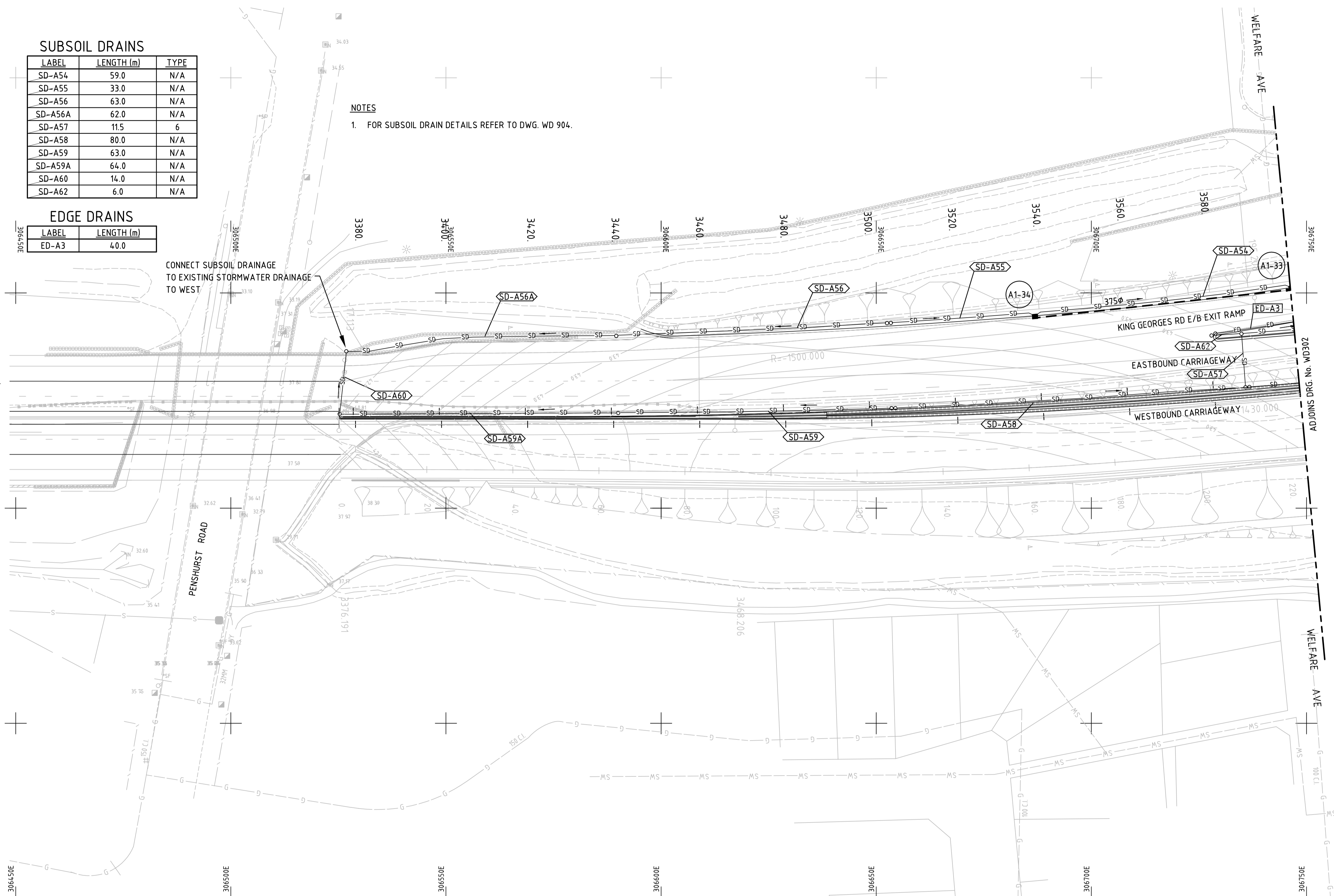
**EDGE DRAINS**

LABEL	LENGTH (m)
ED-A3	4.0

**NOTES**

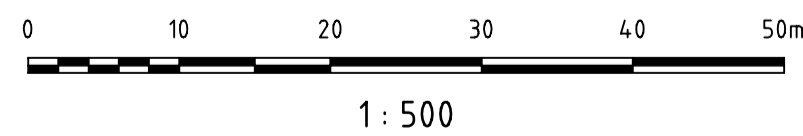
1. FOR SUBSOIL DRAIN DETAILS REFER TO DWG. WD 904.

CONNECT SUBSOIL DRAINAGE TO EXISTING STORMWATER DRAINAGE TO WEST



IMPORTANT NOTE: SERVICES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE RECORDS OF AUTHORITIES. HYDER DOES NOT TAKE RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR PERFORMING THE WORKS SHALL TAKE FULL RESPONSIBILITY IN DETERMINING THE LOCATION OF SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF SERVICES AUTHORITIES PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE.

**"AS BUILT"**



1 : 500

100mm On Original A1

Rev	Name	Signed	Name	Signed	Name	Signed	Date	Description
X			R.C.P.		A.M.			"AS BUILT" DESIGN LOT 20G-2-1.

	ISSUED AS BUILT		
	Name	Signature	Date
Drafted	J. LONG		
BHBB Approval	A. MASSOUD		

Prepared By

Consultant

HYDER CONSULTING (AUSTRALIA) PTY LTD  
Level 5  
116 Miller St  
North Sydney, NSW, 2060  
ABN: 34 000 579 046  
Tel: +61 (0)2 8907 9000  
Fax: +61 (0)2 8907 9001

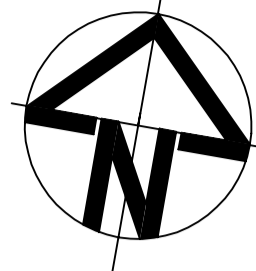
Client

**BHBB M5 East Joint Venture**  
BAULDERSTONE HORNIBROOK | BILFINGER + BERGER  
BAUAKTIENGESELLSCHAFT

Contract **M5 EAST MOTORWAY**

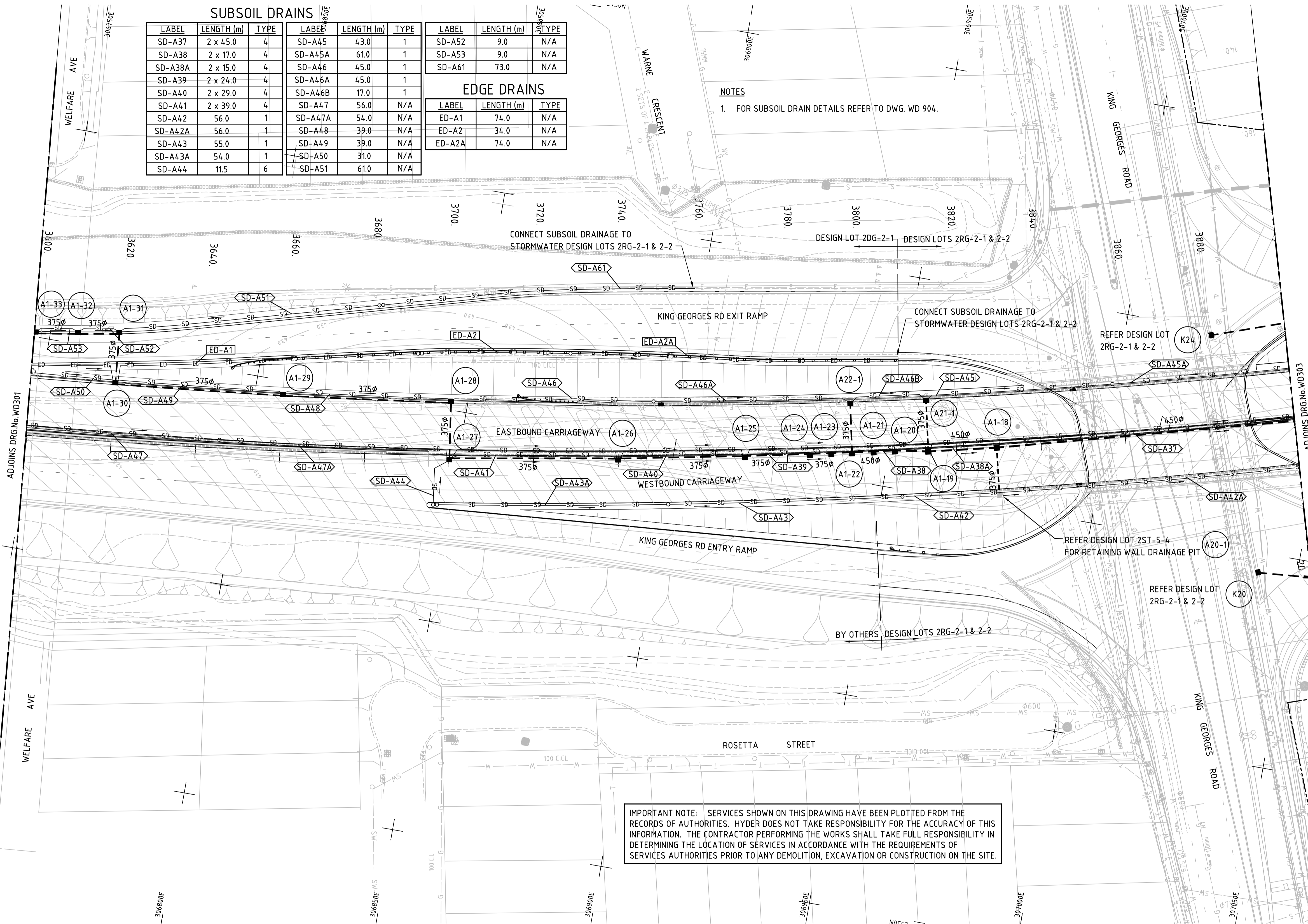
PAVEMENT DRAINAGE  
KING GEORGES ROAD TO KINGSGROVE ROAD  
PLAN  
CH 3460.417 - CH 3600  
SHEET 1

Scale	1:500	Stage	A1	Drawing No.	301	Rev	X
Project Datum	A.H.D	Area	W	Discipline	D	Number	301

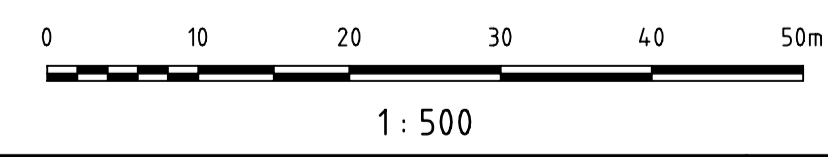


SUBSOIL DRAINS			SUBSOIL DRAINS			SUBSOIL DRAINS														
LABEL	LENGTH (m)	TYPE	LABEL	LENGTH (m)	TYPE	LABEL	LENGTH (m)	TYPE												
SD-A37	2 x 45.0	4	SD-A45	43.0	1	SD-A52	9.0	N/A												
SD-A38	2 x 17.0	4	SD-A45A	61.0	1	SD-A53	9.0	N/A												
SD-A38A	2 x 15.0	4	SD-A46	45.0	1	SD-A61	73.0	N/A												
SD-A39	2 x 24.0	4	SD-A46A	45.0	1	<b>EDGE DRAINS</b> <table border="1"> <thead> <tr> <th>LABEL</th> <th>LENGTH (m)</th> <th>TYPE</th> </tr> </thead> <tbody> <tr> <td>ED-A1</td> <td>74.0</td> <td>N/A</td> </tr> <tr> <td>ED-A2</td> <td>34.0</td> <td>N/A</td> </tr> <tr> <td>ED-A2A</td> <td>74.0</td> <td>N/A</td> </tr> </tbody> </table>			LABEL	LENGTH (m)	TYPE	ED-A1	74.0	N/A	ED-A2	34.0	N/A	ED-A2A	74.0	N/A
LABEL	LENGTH (m)	TYPE																		
ED-A1	74.0	N/A																		
ED-A2	34.0	N/A																		
ED-A2A	74.0	N/A																		
SD-A40	2 x 29.0	4	SD-A46B	17.0	1															
SD-A41	2 x 39.0	4	SD-A47	56.0	N/A															
SD-A42	56.0	1	SD-A47A	54.0	N/A															
SD-A42A	56.0	1	SD-A48	39.0	N/A															
SD-A43	55.0	1	SD-A49	39.0	N/A															
SD-A43A	54.0	1	SD-A50	31.0	N/A															
SD-A44	11.5	6	SD-A51	61.0	N/A															

**NOTES**  
 1. FOR SUBSOIL DRAIN DETAILS REFER TO DWG. WD 904.



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