

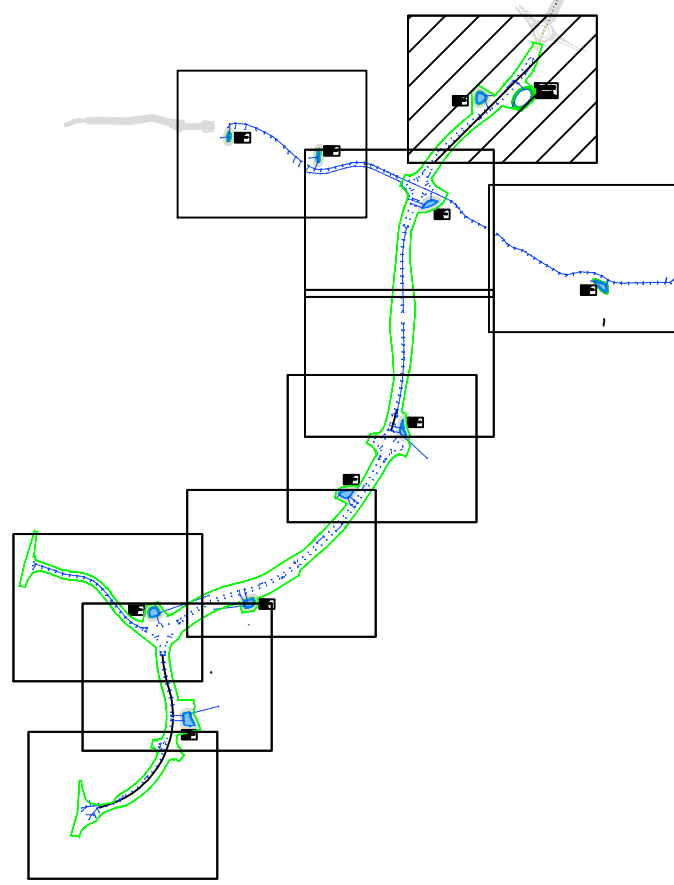
Design Summary Document Appendix A dwg 0501 to 0507 - Highway Drainage



CATCHMENT 2 BASIN
100 YR + 40% CC
DISCHARGE RATE = 3.9 l/s
AREA = 1252m²
VOLUME = 791m³
BASIN SIDES: 1:5

POND 1
GEOMETRY AND ORIENTATION AS PER WSCC
DESIGN TO ACCOMMODATE A29 RUNOFF FROM
WSCC SCHEME AND SOUTHERN CONSORTIUM
SCHEME.
SOUTHERN CONSORTIUM REQUIREMENT:
PROPOSED DISCHARGE RATE = 3.00 l/s
100 YR +20% ATTENUATION VOLUME = 198m³

- NOTES:
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- PROPOSED DRAINAGE KEY:
- PROPOSED SURFACE WATER HIGHWAY SEWER
 - PROPOSED SURFACE WATER HIGHWAY GULLY
 - PROPOSED HIGHWAY SWALE
 - PROPOSED HEADWALL
 - PROPOSED BALANCING POND
 - DEFINES HIGHWAY CATCHMENT AREA SPLIT FOR RUNOFF

P08	Client name updated	HJ	DAR	DAR	13.01.22
P07	Client and project name updated	HJ	DAR	DAR	12/11/21
P06	Client and project name updated	HJ	YL	DAR	04/10/21
P05	Updated highway alignment	HJ	YL	DAR	27/08/21
P04	Drainage updated	HJ	YL	DAR	06/07/21
P03	Drainage amended	HJ	YL	DAR	02/06/21
P02	Additional drainage added.	YL	RH	DAR	10/05/21
P01	Preliminary Issue	YL	RH	DAR	06/05/21
REV	DESCRIPTION	DRN	CHK	APP	DATE

REV	DESCRIPTION	DRN	CHK	APP	DATE
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Client

C.C Projects

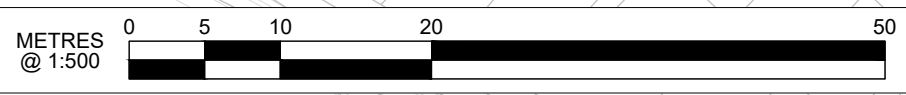
Project

BEW Parcel SC1

Drawing Title

Highway Drainage
Layout
(Sheet 1 of 10)

Name	Date	Scale	1:500 @ A0
Drawn	YL	MAY 21	
Designed	YL	MAY 21	File No. A13394-PEF-GEN-XX-DR-C-0501-0510 P0 Highway
Checked	RH	MAY 21	Drawing Status
Approved	DAR	MAY 21	Preliminary
Drawing No.	A13394-PEF-ZZ-XX-DR-CD-0501		Revision
			P8





NOTES:

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Location Plan

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- PROPOSED SURFACE WATER HIGHWAY GULLY
- PROPOSED HIGHWAY SWALE
- PROPOSED HEADWALL
- PROPOSED BALANCING POND
- DEFINES HIGHWAY CATCHMENT AREA SPLIT FOR RUNOFF

P08	Client name updated	HJ	DAR	DAR	13.01.22
P07	Client and project name updated	HJ	DAR	DAR	12.11.21
P06	Client and project name updated	HJ	YL	DAR	04/10/21
P05	Updated highway alignment	HJ	YL	DAR	27/08/21
P04	Drainage updated	HJ	YL	DAR	06/07/21
P03	Drainage amended	HJ	YL	DAR	02/06/21
P02	Additional drainage added	YL	RH	DAR	10/05/21
P01	Preliminary Issue	YL	RH	DAR	06/05/21
REV	DESCRIPTION	DRN	CHK	APP	DATE

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Client

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Project

BEW Parcel SC1

Drawing Title

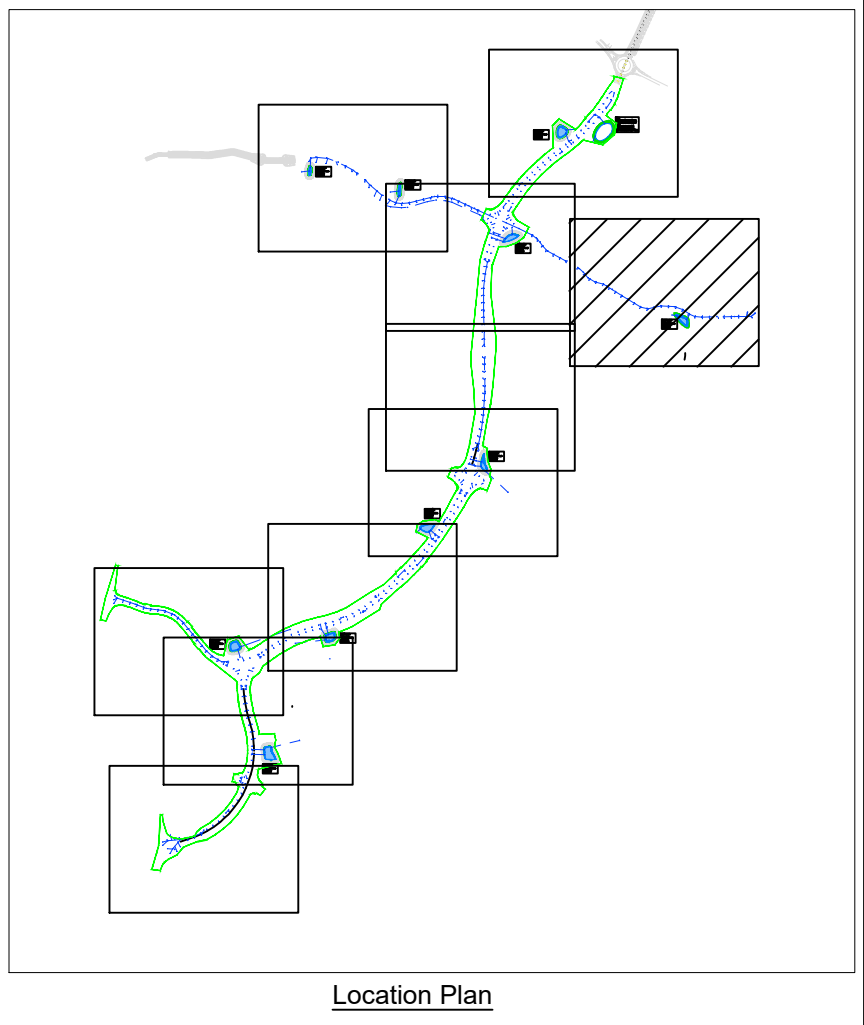
Highway Drainage Layout
(Sheet 2 of 10)

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Checked	RH	MAY 21	Drawing Status	Preliminary
Approved	DAR	MAY 21		
Drawing No.	A13394-PEF-ZZ-XX-DR-CD-0502			Revision
				P8



CATCHMENT 4 BASIN
100 YR + 40% CC
DISCHARGE RATE = 3.0 l/s
AREA = 847m²
VOLUME = 613m³
BASIN SIDES: 1:3

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- PROPOSED DRAINAGE KEY:
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 - PROPOSED SURFACE WATER HIGHWAY GULLY
 - PROPOSED HIGHWAY SWALE
 - PROPOSED HEADWALL
 - PROPOSED BALANCING POND
 - DEFINES HIGHWAY CATCHMENT AREA SPLIT FOR RUNOFF

P08	Client name updated	HJ	DAR	DAR	13.01.22
P07	Client and project name updated	HJ	DAR	DAR	12/1/21
P06	Client and project name updated	HJ	YL	DAR	04/10/21
P05	Updated highway alignment	HJ	YL	DAR	27/08/21
P04	Drainage updated	HJ	YL	DAR	06/07/21
P03	Drainage amended	HJ	YL	DAR	02/06/21
P02	Additional drainage added	YL	RH	DAR	10/05/21
P01	Preliminary Issue	YL	RH	DAR	06/05/21

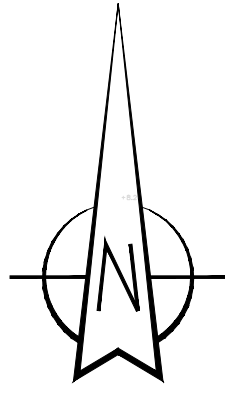
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BEW Parcel SC1

Highway Drainage Layout
(Sheet 3 of 10)

Project				
Drawing Title				
	Name	Date	Scale	1:500 @ A0
Drawn	YL	MAY 21	File No.	A13394-PEF-GEN-XX-DR-C-0501 - 0510
Designed	YL	MAY 21	Drawing Status	Preliminary
Checked	RH	MAY 21	Revision	
Approved	DAR	MAY 21		
Drawing No.	A13394-PEF-ZZ-XX-DR-CD-0503			P8



For Continuation refer to drawing
BEW-PF-GEN-XX-DR-C-0502

5

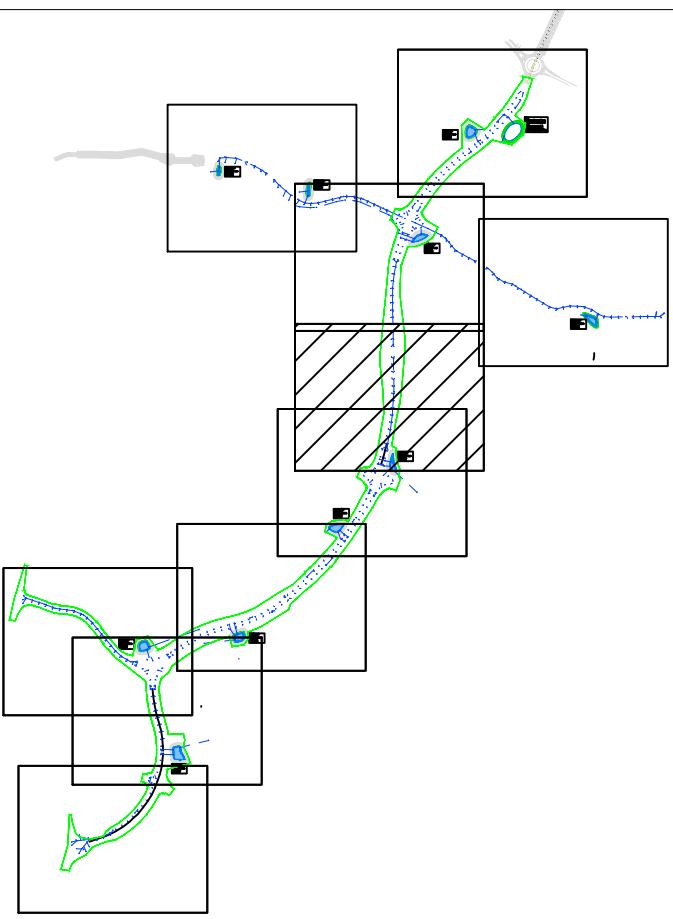
CATCHMENT 5 BASIN

100 YR + 40% CC
DISCHARGE RATE = 3.3 l/s
AREA = 847m²
VOLUME = 618m³
BASIN SIDES: 1:3

For Continuation refer to drawing
BEW-PF-GEN-XX-DR-C-0505

NOTES:

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Location Plan

PROPOSED DRAINAGE KEY:

- PROPOSED SURFACE WATER HIGHWAY SEWER
- PROPOSED SURFACE WATER HIGHWAY GULLY
- PROPOSED HIGHWAY SWALE
- PROPOSED HEADWALL
- PROPOSED BALANCING POND
- DEFINES HIGHWAY CATCHMENT AREA SPLIT FOR RUNOFF

P08	Client name updated	HJ	DAR	DAR	13.01.22
P07	Client and project name updated	HJ	DAR	DAR	12.11.21
P06	Client and project name updated	HJ	YL	DAR	04/10/21
P05	Updated highway alignment	HJ	YL	DAR	27/09/21
P04	Drainage updated	HJ	YL	DAR	06/07/21
P03	Drainage amended	HJ	YL	DAR	02/06/21
P02	Additional drainage added	YL	RH	DAR	10/05/21
P01	Preliminary issue	YL	RH	DAR	06/05/21

REV	DESCRIPTION	DRN	GHI	APP	DATE
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Client

C.C Projects

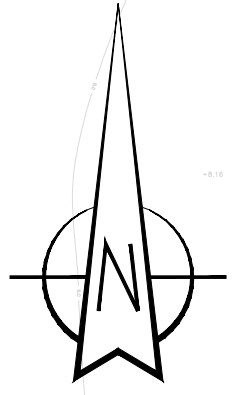
Project

BEW Parcel SC1

Drawing Title

Highway Drainage
Layout
(Sheet 4 of 10)

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Designed	YL	MAY 21	Drawing Status	Preliminary
Checked	RH	MAY 21	Revision	
Approved	DAR	MAY 21		
Drawing No.	A13394-PEF-ZZ-XX-DR-CD-0504			
				P8



For Continuation refer to drawing
BEW-PF-GEN-XX-DR-C-0504

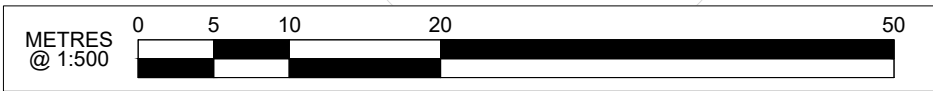
CATCHMENT 5 BASIN

100 YR + 40% CC
DISCHARGE RATE = 3.3 l/s
AREA = 847m²
VOLUME = 618m³
BASIN SIDES: 1:3

CATCHMENT 6 BASIN

100 YR + 40% CC
DISCHARGE RATE = 5.0 l/s
AREA = 1067m²
VOLUME = 801m³
BASIN SIDES: 1:3

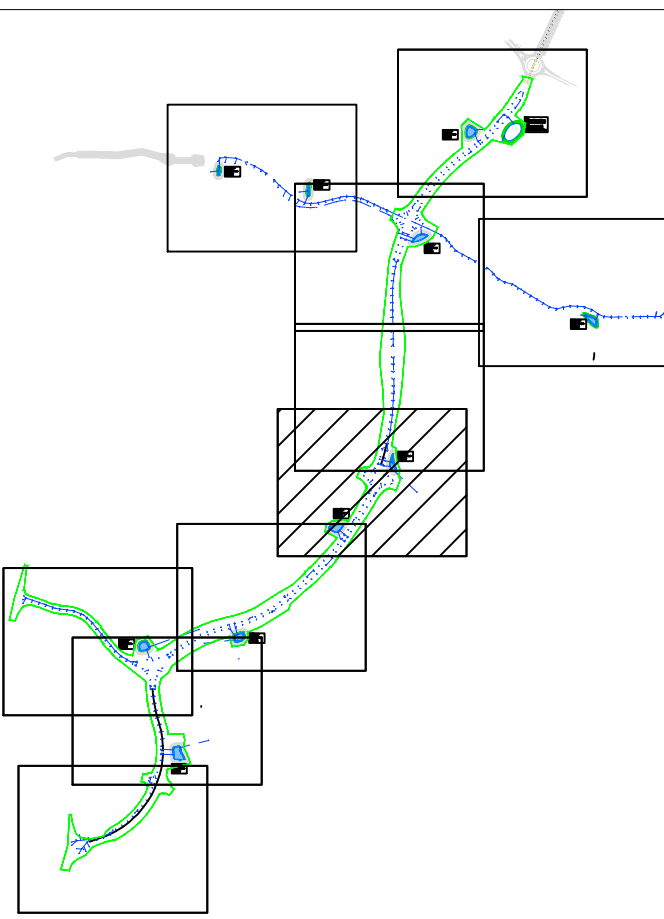
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For Continuation refer to drawing
BEW-PF-GEN-XX-DR-C-0506

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- PROPOSED SURFACE WATER HIGHWAY GULLY
- PROPOSED HIGHWAY SWALE
- PROPOSED HEADWALL
- PROPOSED BALANCING POND
- DEFINES HIGHWAY CATCHMENT AREA SPLIT FOR RUNOFF

P08	Client name updated	HJ	DAR	DAR	13.01.22
P07	Client and project name updated	HJ	DAR	DAR	12.11.21
P06	Client and project name updated	HJ	YL	DAR	04/10/21
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P04	Drainage updated	HJ	YL	DAR	06/07/21
P03	Drainage amended	HJ	YL	DAR	02/06/21
P02	Additional drainage added	YL	RH	DAR	10/05/21
P01	Preliminary issue	YL	RH	DAR	06/05/21

REV	DESCRIPTION	DRN	CHK	APP	DATE
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Client

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Project

BEW Parcel SC1

Drawing Title

Highway Drainage
Layout
(Sheet 5 of 10)

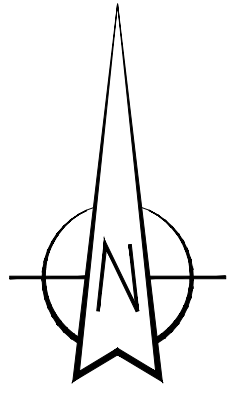
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Designed	YL	MAY 21	File No.	A13394-PEF-GEN-XX-DR-C-0501 - 0510 P6 Highway
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Checked	RH	MAY 21	Drawing Status	Preliminary
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Approved	DAR	MAY 21	Revision	P8
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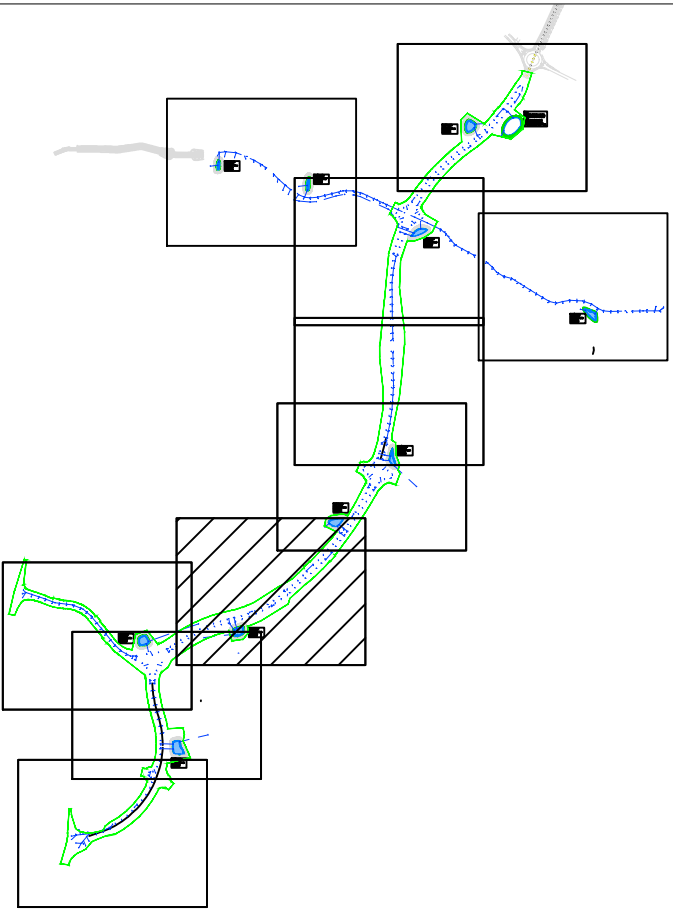
Drawing No.	A13394-PEF-ZZ-XX-DR-CD-0505
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CATCHMENT 7 BASIN
100 YR + 40% CC
DISCHARGE RATE = 3.5 l/s
AREA = 1132m²
VOLUME = 712m³
BASIN SIDES: 1:5

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Location Plan

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- PROPOSED HIGHWAY SWALE
- PROPOSED HEADWALL
- PROPOSED BALANCING POND
- DEFINES HIGHWAY CATCHMENT AREA SPLIT FOR RUNOFF

P08	Client name updated	HJ	DAR	DAR	13.01.22
P07	Client and project name updated	HJ	DAR	DAR	12.11.21
P06	Client and project name updated	HJ	YL	DAR	04/10/21
P05	Updated highway alignment	HJ	YL	DAR	27/08/21
P04	Drainage updated	HJ	YL	DAR	06/07/21
P03	Drainage amended	HJ	YL	DAR	02/06/21
P02	Additional drainage added	YL	RH	DAR	10/05/21
P01	Preliminary Issue	YL	RH	DAR	06/05/21
REV	DESCRIPTION	DRN	CHK	APP	DATE

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Client
C.C Projects

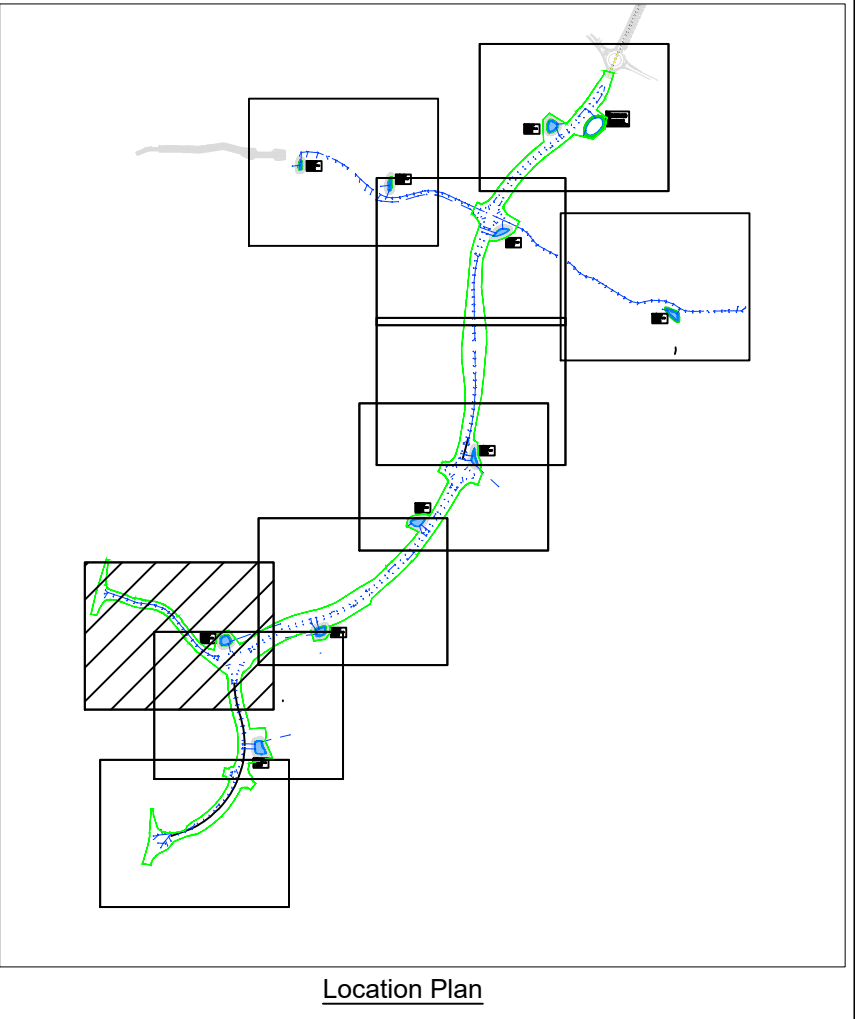
Project
BEW Parcel SC1

Drawing Title
**Highway Drainage Layout
(Sheet 6 of 10)**

Name	Date	Scale	1:500 @ A0
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Designed	YL	MAY 21	File No. A13394-PEF-GEN-XX-DR-C-0501 - 0510 P6 Highway
Checked	RH	MAY 21	Drawing Status
Approved	DAR	MAY 21	Preliminary
Drawing No.	A13394-PEF-ZZ-XX-DR-CD-0506		Revision
			P8



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 - PROPOSED HIGHWAY SWALE
 - PROPOSED HEADWALL
 - PROPOSED BALANCING POND
 - DEFINES HIGHWAY CATCHMENT AREA SPLIT FOR RUNOFF

P01	Client name updated	HJ	DAR	DAR	13.01.22
P02	Client and project name updated	HJ	DAR	DAR	12/1/21
P03	Client and project name updated	HJ	YL	DAR	04/10/21
P04	Updated highway alignment	HJ	YL	DAR	27/08/21
P05	Drainage updated	HJ	YL	DAR	06/07/21
P06	Drainage amended	HJ	YL	DAR	02/08/21
P07	Additional drainage added	YL	RH	DAR	10/05/21
P08	Preliminary Issue	YL	RH	DAR	06/05/21

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Client

C.C Projects

Project

BEW Parcel SC1

Drawing Title

Highway Drainage
Layout
(Sheet 7 of 10)

Name	Date	Scale	1:500 @ A0	
Drawn	YL	MAY 21	File No.	A13394-PF-GEN-XX-DR-C-0501 - 0510
Designed	YL	MAY 21	Drawing Status	Preliminary
Checked	RH	MAY 21		
Approved	DAR	MAY 21		
Drawing No.	A13394-PF-ZZ-XX-DR-CD-0507			Revision
				P8