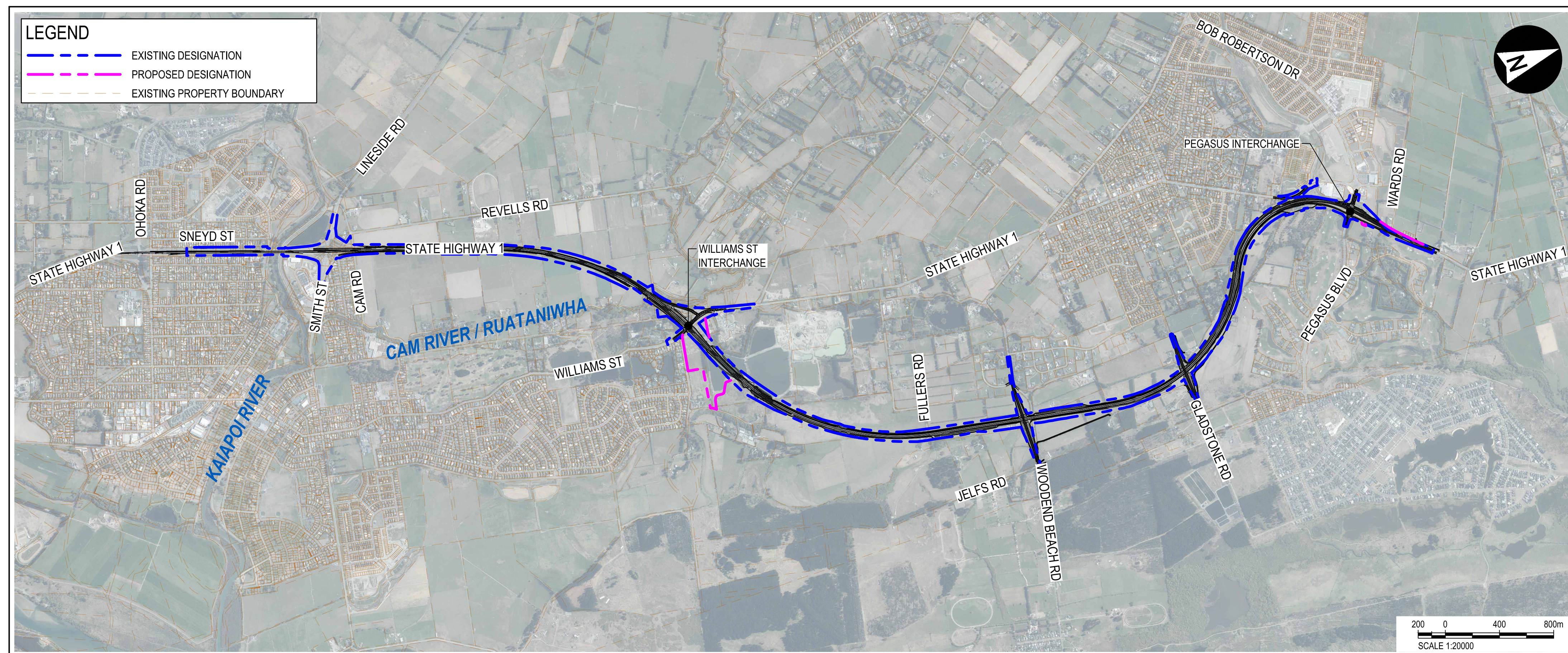


BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS STORMWATER

LOCALITY PLAN



REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED	SIZE	CONSTRUCTION STATUS	STATUS	CODE	DOCUMENT STATE	DOCUMENT CODE	REFERENCE No.	REV
B	2025-12-12	ISSUED FOR 100% DETAILED DESIGN	B	C.LACAMBRA	Y.HOOI	W.HERBERT	M.FLANNERY	A1	NOT FOR CONSTRUCTION	ISSUED FOR DETAILED DESIGN	P3	PUBLISHED	11320-AUR-0350-PWI-SW-DRG-0001	SW-DRG-0001	B

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DRAWING No.	DRAWING TITLE
11320-AUR-0350-PWI-SW-DRG-0001	COVER PAGE
11320-AUR-0350-PWI-SW-DRG-0002	DRAWING INDEX - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0011	GENERAL NOTES AND LEGENDS - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0100	KEYPLAN
11320-AUR-0350-PWI-SW-DRG-0101	STORMWATER LAYOUT PLAN - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0102	STORMWATER LAYOUT PLAN - SHEET 2
11320-AUR-0350-PWI-SW-DRG-0103	STORMWATER LAYOUT PLAN - SHEET 3
11320-AUR-0350-PWI-SW-DRG-0104	STORMWATER LAYOUT PLAN - SHEET 4
11320-AUR-0350-PWI-SW-DRG-0105	STORMWATER LAYOUT PLAN - SHEET 5
11320-AUR-0350-PWI-SW-DRG-0106	STORMWATER LAYOUT PLAN - SHEET 6
11320-AUR-0350-PWI-SW-DRG-0107	STORMWATER LAYOUT PLAN - SHEET 7
11320-AUR-0350-PWI-SW-DRG-0108	STORMWATER LAYOUT PLAN - SHEET 8
11320-AUR-0350-PWI-SW-DRG-0109	STORMWATER LAYOUT PLAN - SHEET 9
11320-AUR-0350-PWI-SW-DRG-0110	STORMWATER LAYOUT PLAN - SHEET 10
11320-AUR-0350-PWI-SW-DRG-0111	STORMWATER LAYOUT PLAN - SHEET 11
11320-AUR-0350-PWI-SW-DRG-0112	STORMWATER LAYOUT PLAN - SHEET 12
11320-AUR-0350-PWI-SW-DRG-0113	STORMWATER LAYOUT PLAN - SHEET 13
11320-AUR-0350-PWI-SW-DRG-0114	STORMWATER LAYOUT PLAN - SHEET 14
11320-AUR-0350-PWI-SW-DRG-0115	STORMWATER LAYOUT PLAN - SHEET 15
11320-AUR-0350-PWI-SW-DRG-0116	STORMWATER LAYOUT PLAN - SHEET 16
11320-AUR-0350-PWI-SW-DRG-0117	STORMWATER LAYOUT PLAN - SHEET 17
11320-AUR-0350-PWI-SW-DRG-0151	WILLIAMS ST INTERCHANGE PLAN - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0152	WILLIAMS ST INTERCHANGE PLAN - SHEET 2
11320-AUR-0350-PWI-SW-DRG-0161	PEGASUS INTERCHANGE PLAN - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0201	WOODEND BEACH RD PLAN - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0202	WOODEND BEACH RD PLAN - SHEET 2
11320-AUR-0350-PWI-SW-DRG-0211	GLADSTONE RD PLAN - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0212	GLADSTONE RD PLAN - SHEET 2
11320-AUR-0350-PWI-SW-DRG-0501	LONGSECTIONS - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0502	LONGSECTIONS - SHEET 2
11320-AUR-0350-PWI-SW-DRG-0503	LONGSECTIONS - SHEET 3
11320-AUR-0350-PWI-SW-DRG-0504	LONGSECTIONS - SHEET 4
11320-AUR-0350-PWI-SW-DRG-0505	LONGSECTIONS - SHEET 5
11320-AUR-0350-PWI-SW-DRG-0506	LONGSECTIONS - SHEET 6
11320-AUR-0350-PWI-SW-DRG-0507	LONGSECTIONS - SHEET 7
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11320-AUR-0350-PWI-SW-DRG-0509	LONGSECTIONS - SHEET 9
11320-AUR-0350-PWI-SW-DRG-0510	LONGSECTIONS - SHEET 10
11320-AUR-0350-PWI-SW-DRG-0511	LONGSECTIONS - SHEET 11
11320-AUR-0350-PWI-SW-DRG-0512	LONGSECTIONS - SHEET 12
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11320-AUR-0350-PWI-SW-DRG-0552	CULVERT LONGSECTIONS - SHEET 2
11320-AUR-0350-PWI-SW-DRG-0601	BASIN PLAN AND LONGSECTIONS - SHEET 1
11320-AUR-0350-PWI-SW-DRG-0602	BASIN PLAN AND LONGSECTIONS - SHEET 2
11320-AUR-0350-PWI-SW-DRG-0603	BASIN PLAN AND LONGSECTIONS - SHEET 3
11320-AUR-0350-PWI-SW-DRG-0604	BASIN PLAN AND LONGSECTIONS - SHEET 4
11320-AUR-0350-PWI-SW-DRG-0605	BASIN PLAN AND LONGSECTIONS - SHEET 5
11320-AUR-0350-PWI-SW-DRG-1101	STANDARD DETAILS - SHEET 1
11320-AUR-0350-PWI-SW-DRG-1102	STANDARD DETAILS - SHEET 2
11320-AUR-0350-PWI-SW-DRG-1103	STANDARD DETAILS - SHEET 3
11320-AUR-0350-PWI-SW-DRG-1104	STANDARD DETAILS - SHEET 4
11320-AUR-0350-PWI-SW-DRG-1105	STANDARD DETAILS - SHEET 5
11320-AUR-0350-PWI-SW-DRG-1106	STANDARD DETAILS - SHEET 6

11320-AUR-0350-PWI-SW-DRG-1201	BASIN TYPICAL DETAILS - SHEET 1
11320-AUR-0350-PWI-SW-DRG-1202	BASIN TYPICAL DETAILS - SHEET 2
11320-AUR-0350-PWI-SW-DRG-1203	BASIN TYPICAL DETAILS - SHEET 3
11320-AUR-0350-PWI-SW-DRG-1204	BASIN TYPICAL DETAILS - SHEET 4
11320-AUR-0350-PWI-SW-DRG-1205	BASIN TYPICAL DETAILS - SHEET 5
11320-AUR-0350-PWI-SW-DRG-1206	BASIN TYPICAL DETAILS - SHEET 6
11320-AUR-0350-PWI-SW-DRG-1207	BASIN TYPICAL DETAILS - SHEET 7
11320-AUR-0350-PWI-SW-DRG-1208	BASIN TYPICAL DETAILS - SHEET 8
11320-AUR-0350-PWI-SW-DRG-1209	BASIN TYPICAL DETAILS - SHEET 9
11320-AUR-0350-PWI-SW-DRG-1210	BASIN TYPICAL DETAILS - SHEET 10
11320-AUR-0350-PWI-SW-DRG-1211	BASIN TYPICAL DETAILS - SHEET 11

REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2025-09-17	ISSUED FOR 50% DETAILED DESIGN	A	C.LACAMBRA	Y.HOOI	W.HERBERT	M.FLANNERY
B	2025-12-12	ISSUED FOR 100% DETAILED DESIGN	B	C.LACAMBRA	Y.HOOI	W.HERBERT	M.FLANNERY

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Coordinate system

Height datum

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CONSTRUCTION STATUS

NOT FOR CONSTRUCTION

DRAWN BY
C.LACAMBRA

DESIGNED BY
Y.HOOI

STATUS
ISSUED FOR DETAILED DESIGN

CODE
P3

DOCUMENT STATE
PUBLISHED

PROJECT

BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS

TITLE

STORMWATER DRAWING INDEX SHEET 1

DOCUMENT CODE

11320-AUR-0350-PWI-SW-DRG-0002

SCALE
NOT TO SCALE

SIZE
A1

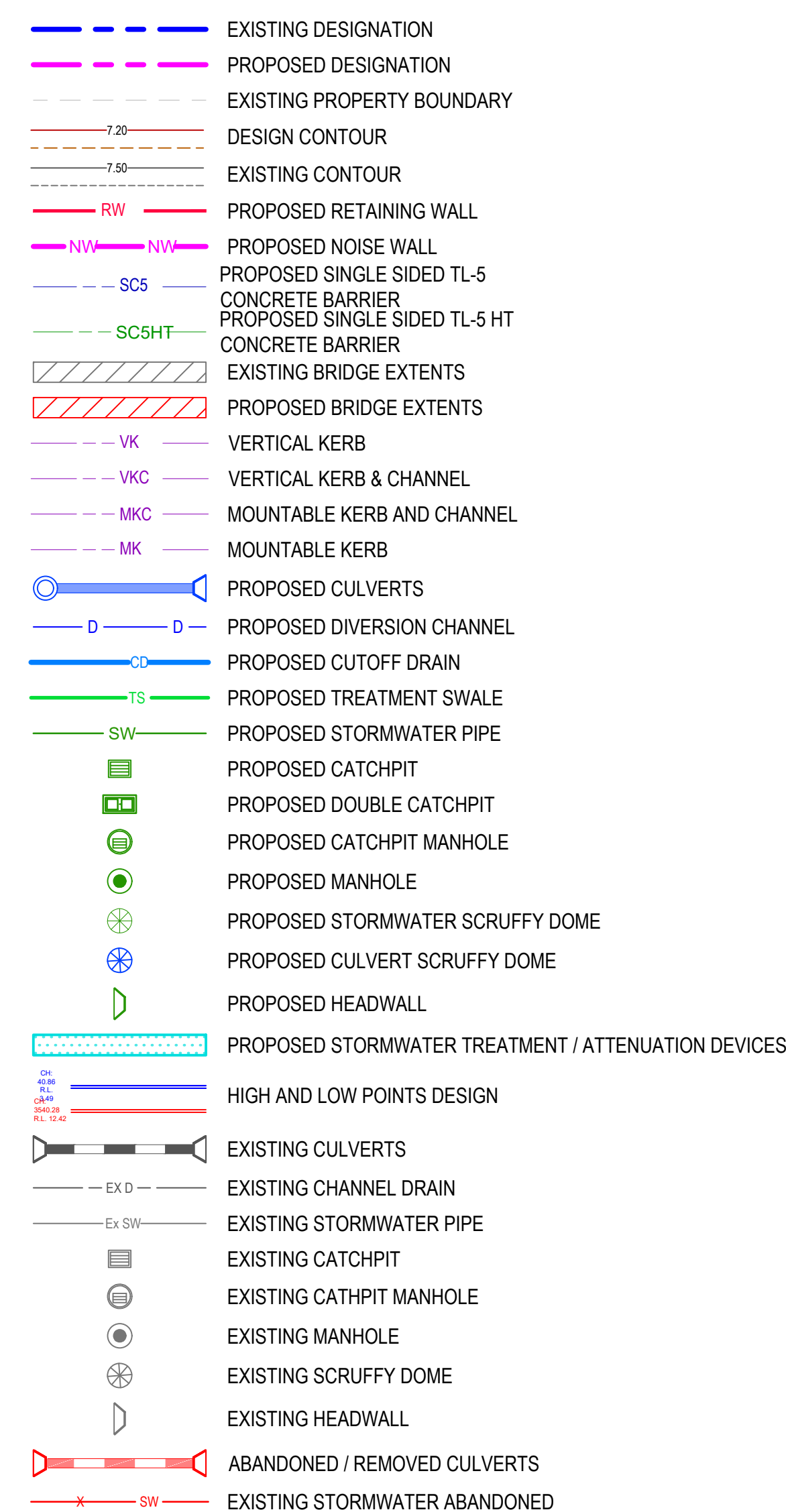
REFERENCE No.
SW-DRG-0002

REV
B

GENERAL NOTES: STORMWATER

1. ALL DIMENSIONS SHOWN ON THESE DRAWINGS ARE METRIC DIMENSIONS AND ARE NOT TO BE SCALED FROM THE DRAWINGS.
2. DRAWINGS ARE IN TERMS OF THE NEW ZEALAND TRANSVERSE MERCATOR 2000 (NZTM2000).
3. WHERE LEVELS ARE SHOWN, THEY ARE IN TERMS OF NZVD 2016.
4. DRAWINGS SHOULD BE READ IN CONJUNCTION WITH BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS STORMWATER REPORT, PROJECT SPECIFICATION AND ALL DRAWING SETS.
5. ALL STORMWATER RELATED WORKS TO BE IN ACCORDANCE WITH WAKA KOTAHĪ P46 SPECIFICATION AND WAIMAKARIRI DISTRICT COUNCIL WDC CODE OF PRACTICE.
6. WHERE CONNECTIONS ARE INDICATED INTO AN EXISTING MANHOLE OR PIPE, CONTRACTOR TO INSPECT EXISTING CONDITION PRIOR TO CONSTRUCTION AND CONFIRM THAT PIPE CONNECTION CAN BE MADE INTO EXISTING PIPE OR MANHOLE. CONTRACTOR TO CONTACT ENGINEER IF A CONNECTION IS NOT POSSIBLE.
7. THE CONTRACTOR IS TO HAVE ALL SERVICES MARKED OUT WITHIN THE SITE AND SHALL POTHOLE ALL SERVICES WHICH COULD POTENTIALLY CONFLICT WITH THE DESIGN. CONTRACTOR TO CONTACT ENGINEER IF A CLASH IS FOUND.
8. AT COMMENCEMENT OF CONSTRUCTION, ALLOW TIME FOR REDESIGN WHERE REQUIRED.
9. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING INFRASTRUCTURE SERVICES AND ASSETS FOR THE DURATION OF THE WORKS.
10. DRAINAGE SUMPS TO BE SETOUT TO MATCH KERB STRING ORIENTATION AND LEVEL.
11. THE MINIMUM PIPE COVER TO BE 0.6m FOR RCRR CLASS 4 PIPE AND 0.75m FOR UPVC SN16 PIPE UNDER TRAFFICKED LANE. WHERE PIPE COVER IS INSUFFICIENT, PIPE PROTECTION NEEDS TO BE PROVIDED.
12. ALL PIPES TO BE OF MATERIAL, TYPE AND CLASS AS INDICATED ON THE DRAWINGS.
13. ALL SUMPS LOCATED ON LOCAL ROAD TO BE AS PER WAIMAKARIRI DISTRICT COUNCIL CODE OF PRACTICE.
14. ALL SUMPS LOCATED ON SH1 TO BE AS PER SW-DRG-1203.
15. ALL PROPOSED SUMP GRATES ARE TO BE NZTA APPROVED CYCLE FRIENDLY STANDARD WAVY GRATE WITH MIN CLASS D GRADE TO WITHSTAND HN-HO-72 TRAFFIC LOAD.
16. ALL SUMPS AT SAG POINTS ARE TO BE DOUBLE SUMPS OR BACK ENTRY SUMPS.
17. ALL MANHOLE DROPS TO BE AS PER WDC CODE OF PRACTICE SECTION 6.6.10.
18. ALL CAST IRON MANHOLE LIDS AND COVER LIDS TO BE MINIMUM CLASS D GRADE TO WITHSTAND HN-HO-72 TRAFFIC LOAD.
19. PIPE TRENCH DETAILS INCLUDING BEDDING AND SURROUND TO BE AS PER AS/NZS3725 FOR RCRRJ CLASS 4 PIPES WITH COVER MORE THAN 0.6m.
20. ALL SUMP AND MANHOLE CONNECTIONS ARE TO BE AS PER WDC CODE OF PRACTICE SD341 WITH CORBEL SAND YIELD JOINTS.
21. ALL REDUNDANT PIPES, SUMPS AND MANHOLES ARE TO BE REMOVED COMPLETELY AND BACKFILLED. REINSTATEMENT OF SURFACES AS PER PROJECT CONTRACT SPECIFICATIONS.
22. THE GROUNDWATER LEVELS VARIES ACROSS THE PROJECT, CONTRACTOR TO ENGAGE THE ENGINEER IF GROUNDWATER LEVELS ARE FOUND TO BE AT ABOVE PIPE OR MANHOLE INVERT LEVEL FOR STRUCTURE FLOTATION ASSESSMENT.
23. IF THE EXTENT OF WORKS SHOWN ON THESE DRAWINGS IS UNCLEAR, THE CONSTRUCTOR SHALL SEEK CLARIFICATION FROM THE DESIGNER.
24. WHERE THE CONTRACTOR CONSIDERS ADJUSTMENTS TO GRADES AND LOCATIONS OF FEATURES ARE DESIRABLE TO BETTER SUIT THE INSITU CONTOUR THE DESIGNER SHALL BE ADVISED AND APPROVAL (OR ALTERNATIVE SOLUTION) OBTAINED BEFORE ANY CHANGES ARE MADE.
25. REFER TO THE MAJOR CROSS CULVERTS PACKAGES (11320-AUR-0350-MJC-SW-DRG SET) FOR THE LOCATION AND EXTENTS OF THE MAJOR CROSS CULVERTS.

STORMWATER LEGEND



REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2025-12-12	ISSUED FOR 100% DETAILED DESIGN	A	C.LACAMBRA	Y.HOOI	W.HERBERT	M.FLANNERY

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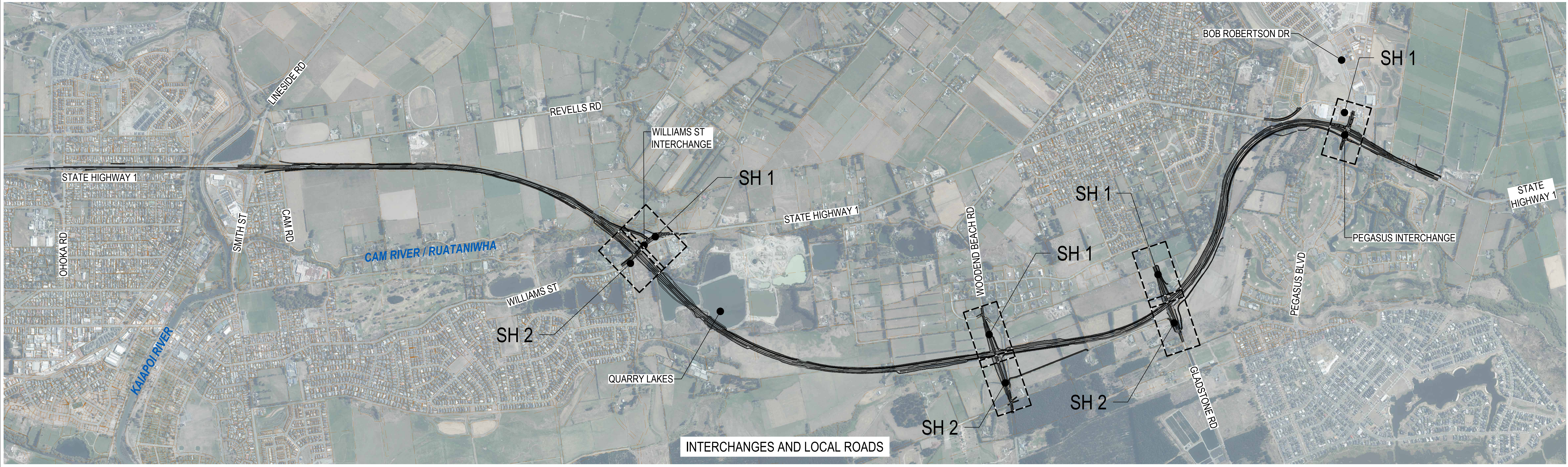
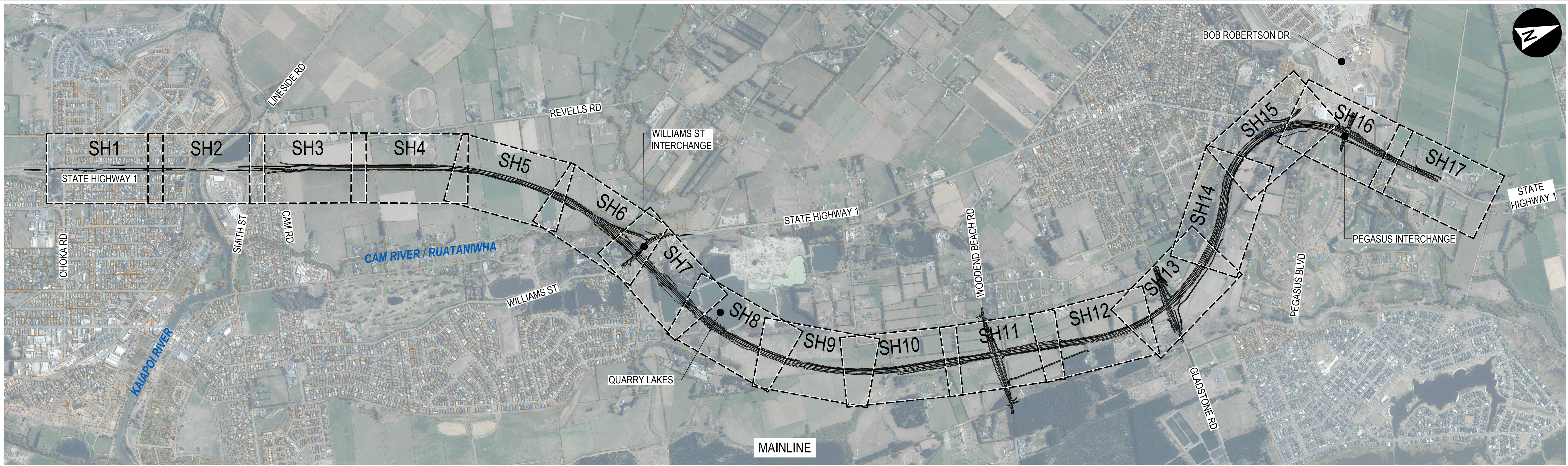
Coordinate system

Height datum

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CONSTRUCTION STATUS		PROJECT		
NOT FOR CONSTRUCTION		BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS		
DRAWN BY C.LACAMBRA		TITLE		
DESIGNED BY Y.HOOI		STORMWATER GENERAL NOTES AND LEGEND SHEET 1		
STATUS ISSUED FOR DETAILED DESIGN	CODE P3	DOCUMENT CODE 11320-AUR-0350-PWI-SW-DRG-0011		
DOCUMENT STATE PUBLISHED	SCALE NOT TO SCALE	SIZE A1	REFERENCE No. SW-DRG-0011	REV A



REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2025-09-17	ISSUED FOR 50% DETAILED DESIGN	A	C.LACAMBRA	Y.HOOI	W.HERBERT	M.FLANNERY
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Coordinate system
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Height datum
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CONSTRUCTION STATUS

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C.LACAMBRA

DESIGNED BY
Y.HOOI

STATUS
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DOCUMENT STATE
PUBLISHED

CODE

P3

PROJECT

BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS

TITLE

STORMWATER KEYPLAN

DOCUMENT CODE

11320-AUR-0350-PWI-SW-DRG-0100

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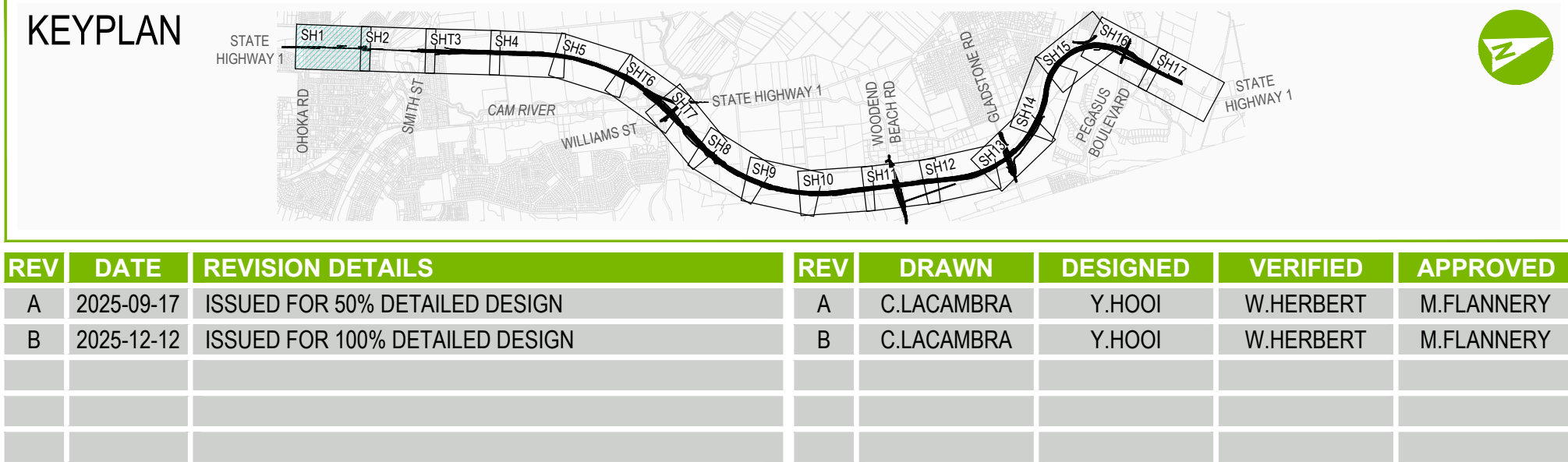
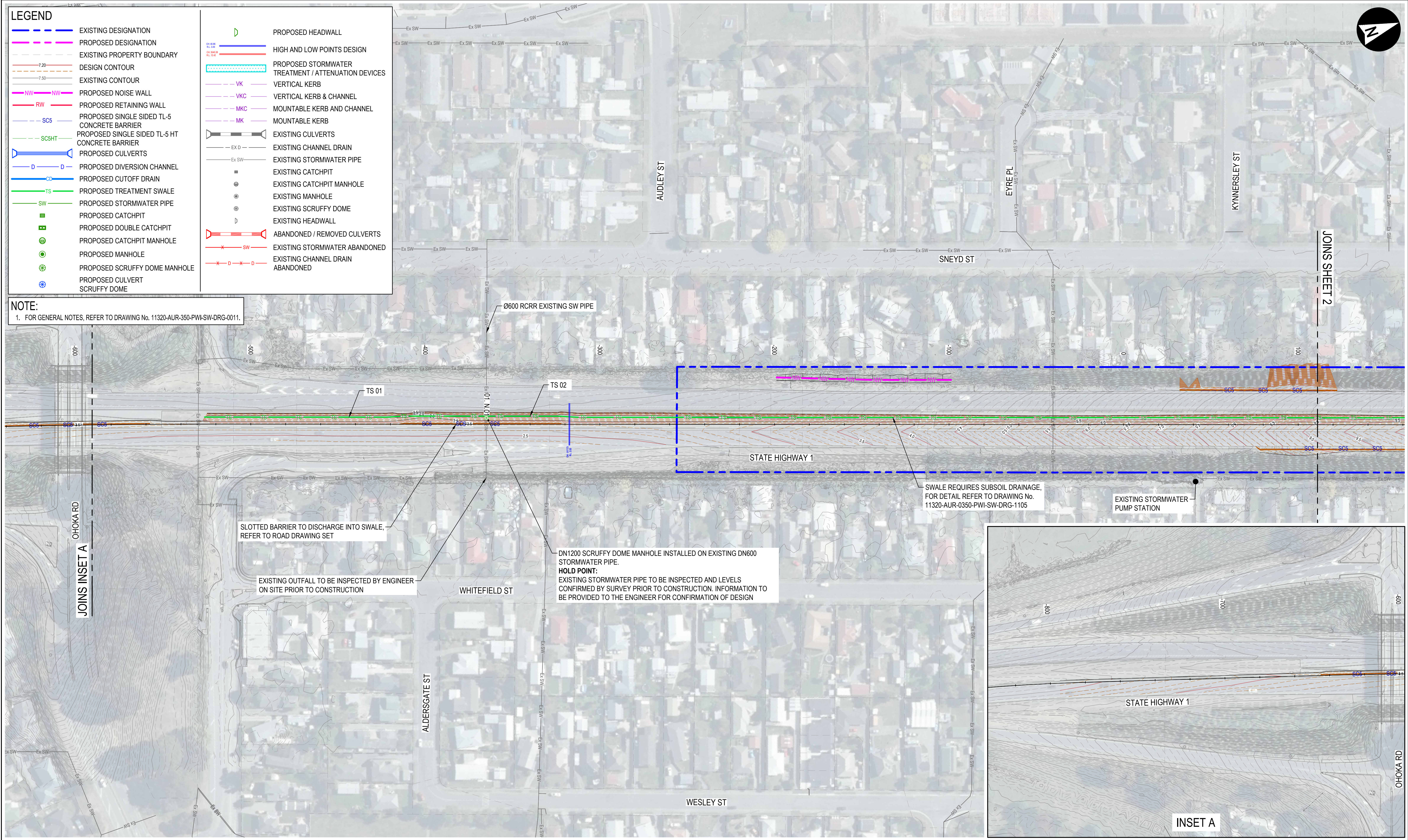
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REFERENCE No.

SW-DRG-0100

REV

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Roads of National Significance

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CONSTRUCTION STATUS

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DRAWN BY
C.LACAMBRA

DESIGNED BY
Y.HOOI

STATUS
ISSUED FOR DETAILED DESIGN

CODE
P3

DOCUMENT STATE
PUBLISHED

PROJECT
BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS

TITLE
STORMWATER
STORMWATER LAYOUT PLAN
SHEET 1

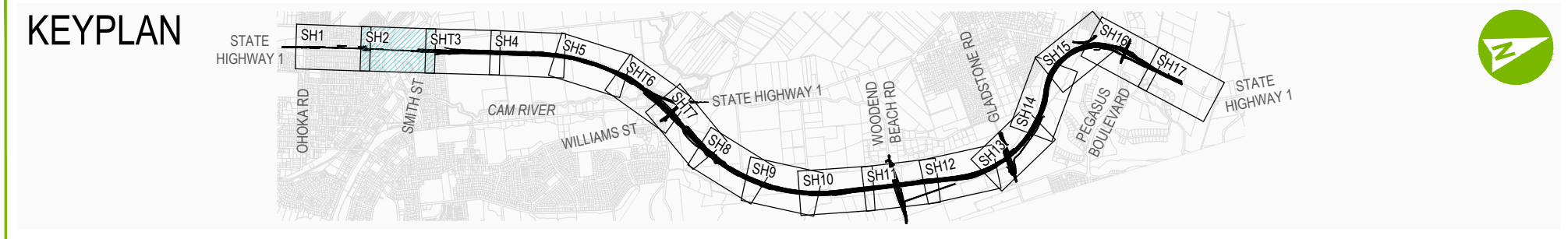
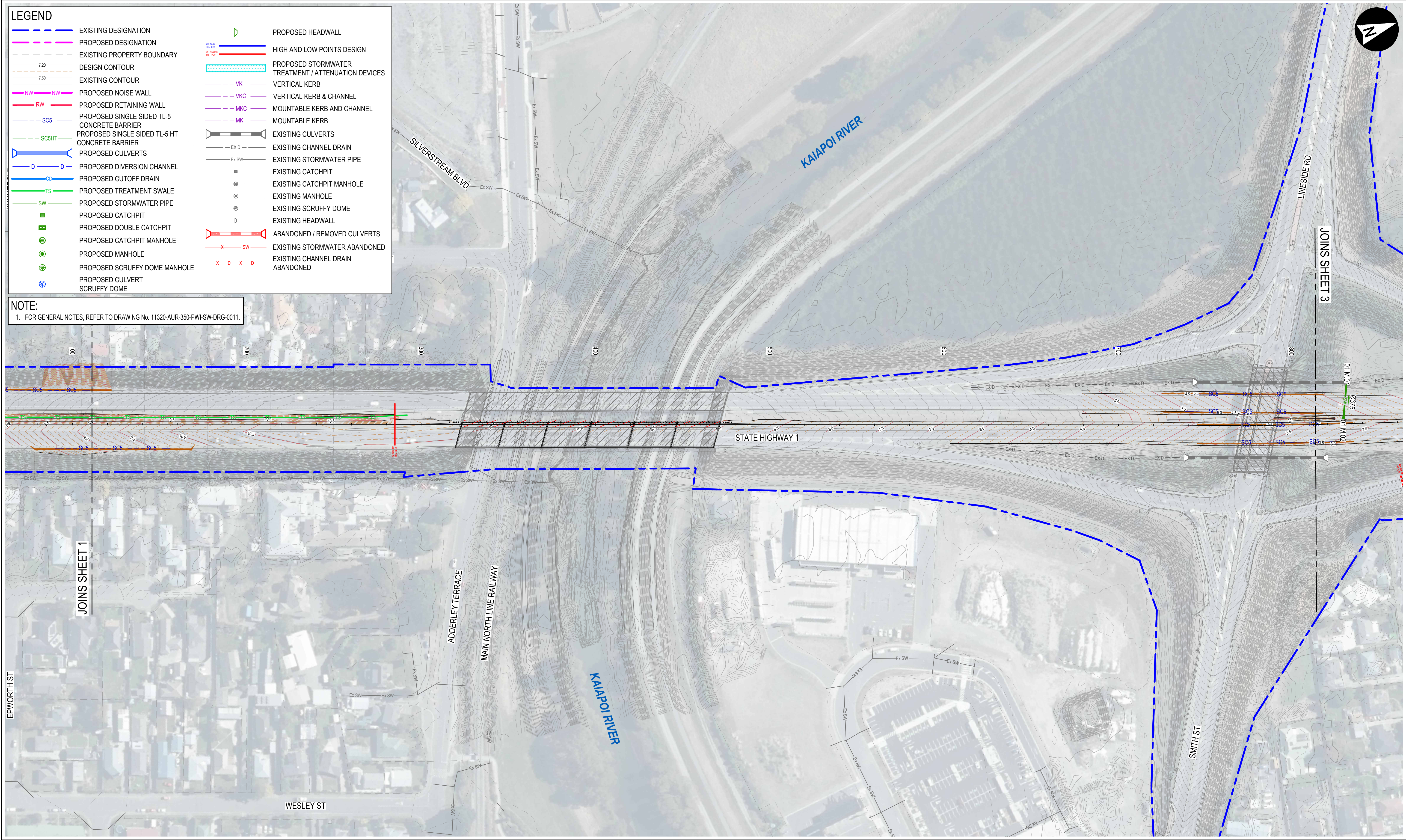
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SIZE
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REFERENCE No.
SW-DRG-0101

REV
B



REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2025-09-17	ISSUED FOR 50% DETAILED DESIGN	A	C.LACAMBRA	Y.HOOI	W.HERBERT	M.FLANNERY
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WAKA KOTAHU

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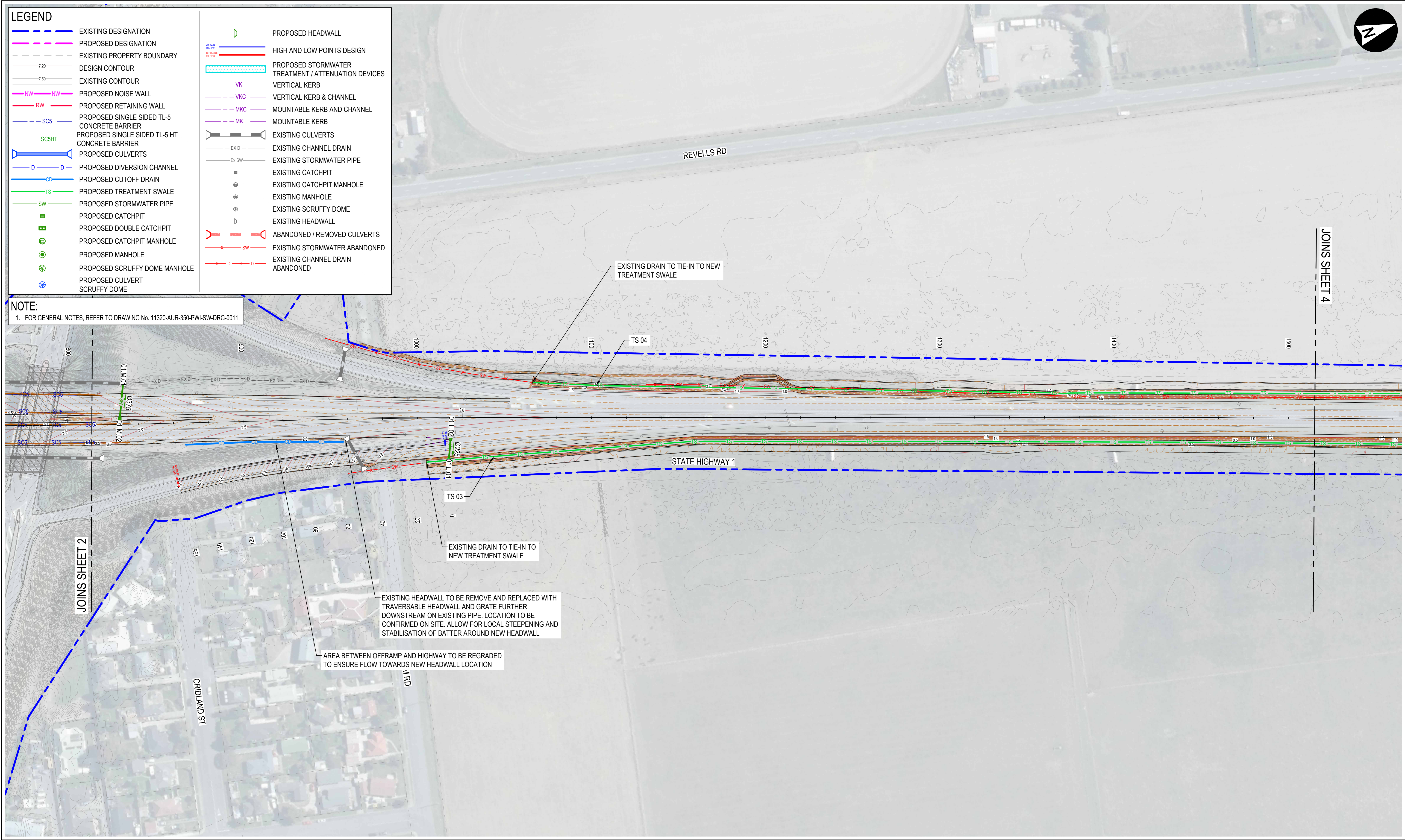
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Coordinate system
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Height datum
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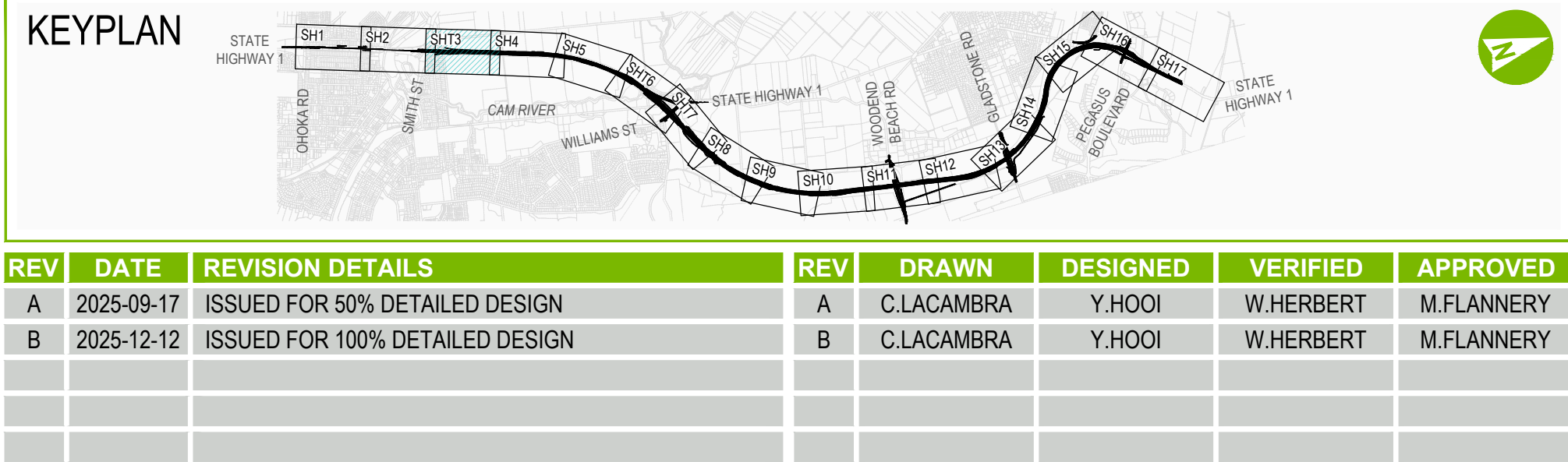
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DRAWN BY C.LACAMBRA	
DESIGNED BY Y.HOOI	
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DOCUMENT STATE PUBLISHED	

PROJECT BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS			
TITLE STORMWATER STORMWATER LAYOUT PLAN SHEET 2			
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Plot Date: 2025-12-11 4:15 PM Filename: 11320-AUR-0350-PWI-SW-DRG-0103.DWG



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Height datum
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CONSTRUCTION STATUS

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DESIGNED BY
Y.HOOI

STATUS
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CODE
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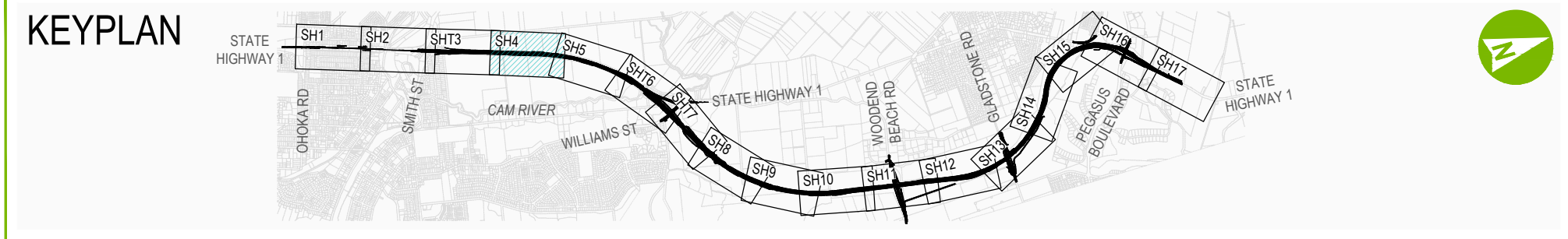
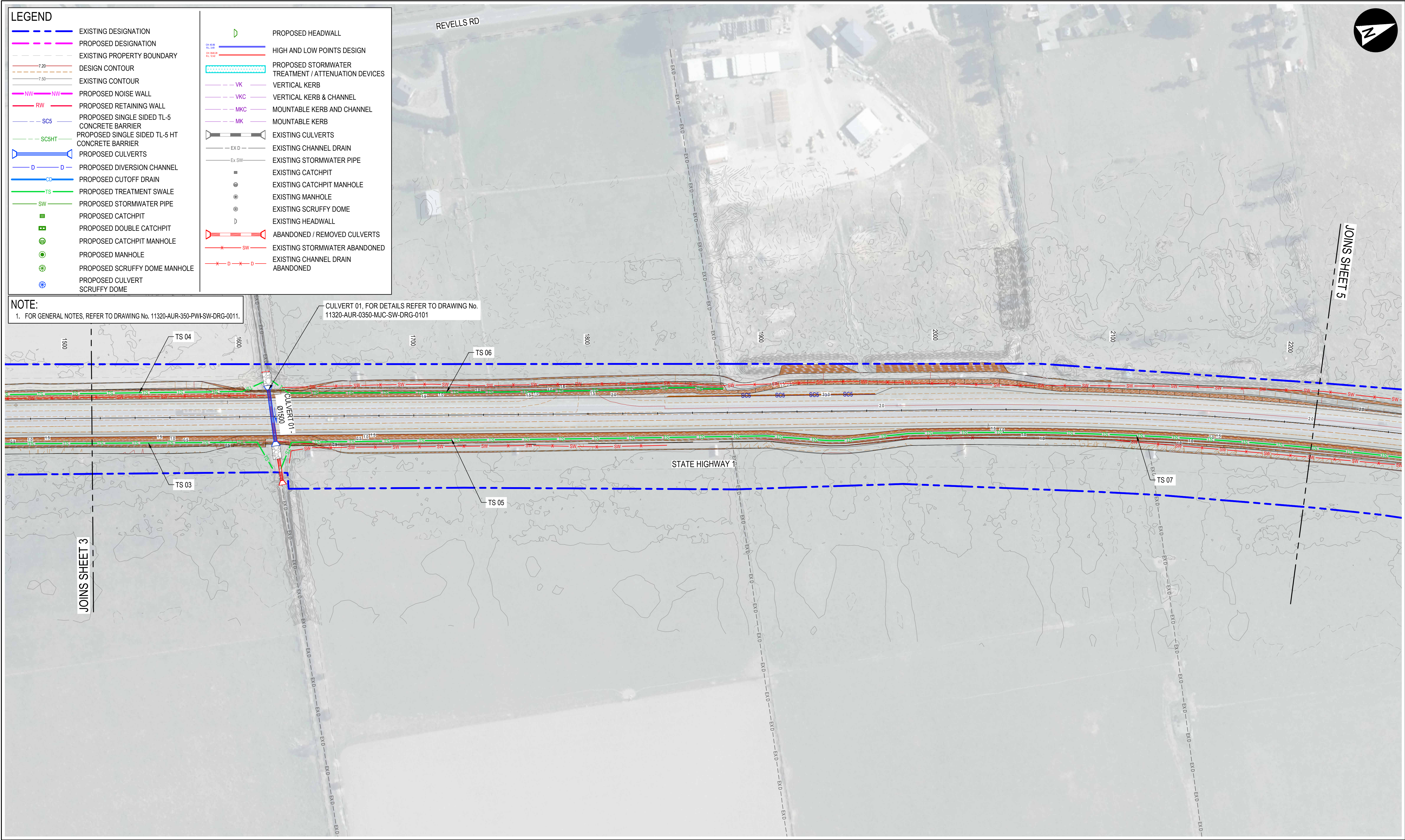
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PROJECT
BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS

TITLE
STORMWATER
STORMWATER LAYOUT PLAN
SHEET 3

DOCUMENT CODE
11320-AUR-0350-PWI-SW-DRG-0103

SCALE	SIZE	REFERENCE No.	REV
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REV	DATE	REVISION DETAILS	REV	DRAWN	DESIGNED	VERIFIED	APPROVED
A	2025-09-17	ISSUED FOR 50% DETAILED DESIGN	A	C.LACAMBRA	Y.HOOI	W.HERBERT	M.FLANNERY
B	2025-12-12	ISSUED FOR 100% DETAILED DESIGN	B	C.LACAMBRA	Y.HOOI	W.HERBERT	M.FLANNERY

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C.LACAMBRA

DESIGNED BY
Y.HOOI

STATUS
ISSUED FOR DETAILED DESIGN

CODE
P3

DOCUMENT STATE
PUBLISHED

PROJECT
BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS

TITLE
STORMWATER
STORMWATER LAYOUT PLAN
SHEET 4

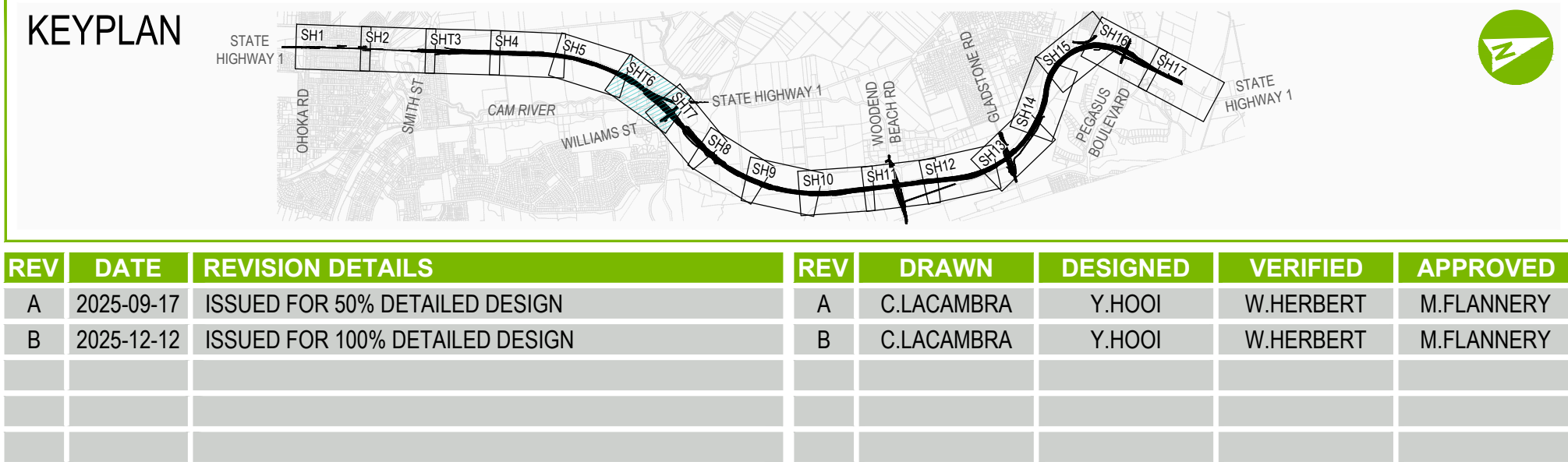
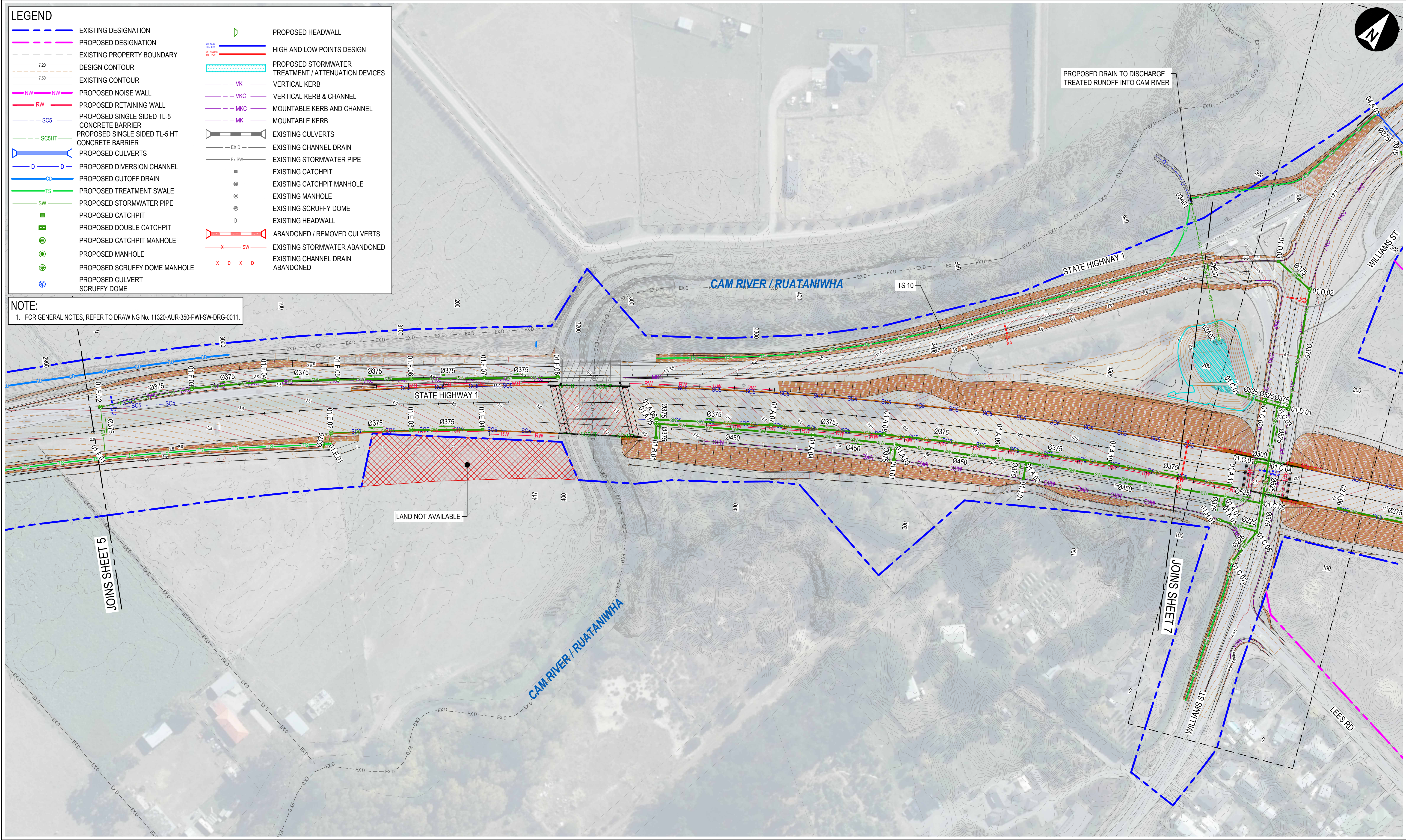
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SIZE
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REFERENCE No.
SW-DRG-0104

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Coordinate system
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DOCUMENT STATE
PUBLISHED

PROJECT
BELFAST TO PEGASUS MOTORWAY & WOODEND BYPASS

TITLE
STORMWATER
STORMWATER LAYOUT PLAN
SHEET 6

DOCUMENT CODE
11320-AUR-0350-PWI-SW-DRG-0106

SCALE
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SIZE
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REFERENCE No.
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