

NOTE:
1. DRAWINGS SHOWN IN GREY HAVE BEEN OMITTED FROM THIS DRAWING SET FOR CLARITY WHERE THERE IS NO SIGNIFICANT STORMWATER DESIGN.

300 mm
200
100
50
0 10 mm



REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



DRAINAGE

SCALES			ORIGINAL SIZE
NOT TO SCALE			A1
DRAWN	DESIGNED	APPROVED	
S. KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	
CONSENT DESIGN			

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
TERRACE TUNNEL AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01100	A

GENERAL NOTES

1. THE COORDINDINATES SYSTEM USED IS NEW ZELAND TRANSVERSE MERCATOR PROJECTION (NZTM 2000).
2. ALL VERTICAL LEVELS ARE IN TERMS OF NEW ZEALAND VERTICAL DATUM 2016 (NZVD2016).
3. AERIAL IMAGERY SOURCED FROM LINZ DATA SERVICE, LICENSED BY LINZ FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 NEW ZEALAND LICENCE (CC BY 4.0). DATED 2021.
4. KERBLINES, PROPERTY BOUNDARIES AND BUILDING OUTLINES SOURCED FROM WCC, LICENSED BY WCC FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 NEW ZEALAND LICENCE (CC BY 4.0). DATED 2001.
5. ALL NOTES SHALL BE READ IN CONJUNCTION WITH CONSENT DESIGN REPORT.
6. INVERT LEVELS ARE AT A CONCEPT DESIGN LEVEL OF DETAIL. EXACT LEVELS WILL BE CONFIRMED AT LATER DESIGN STAGES.
7. EXISTING STORMWATER, WASTEWATER AND WATER SUPPLY PIPELINES HAVE BEEN OBTAINED FROM THE THE WWL OPEN DATA PORTAL. LOCATIONS OF THESE SERVICES ARE INDICATIVE ONLY.
8. ALL PROPOSED CATCH PITS ARE TO BE ALIGNED THE ROAD KERBLINE.
9. PLANTING SPECIES FOR THE RAIN-GARDENS ARE TO BE DETERMINED AT A LATER DESIGN STAGE.
10. CATCHPIT FILTERS ARE TO BE RETROFITTED ON EXISTING AND PROPOSED CATCHPITS ALONG THE PROPOSED ROAD ALIGNMENT WHERE POSSIBLE. THIS INCLUDES WORKS ALONG KARO DRIVE AND VIVIAN STREET.
11. FOR THE BASIN RESERVE, EXISTING CATCHPITS ARE TO BE EITHER REMOVED OR RECONFIGURED.
12. TUNNEL CONTROL BUILDING, PUMPING STATIONS FOR DELUGE FLOW AND QUEEN ELIZABETH II EDUCATION CENTRE STORMWATER CONNECTIONS TO BE DETERMINED.
13. AS PER SECTION 4.3.3.12 OF THE WELLINGTON WATER WATER SENSITIVE DESIGN FOR STORMWATER TREATMENT DESIGN GUIDELINE, VERSION 1.1 (2019). KEY PLANTING SPECIES FOR RAIN GARDENS ARE AS FOLLOWED
- SPECIES SUITED IN THE FILTER MEDIA PLANTING AREA:

OIOI (APODASMA SIMILIS)

PŪREKIREKI, PUREI (CAREX APPRESSA)

PŪREKIREKI, PUREI (CAREX BUCANANII)

PŪREKIREKI, PUREI (CAREX DISSITA)

PŪREKIREKI, PUREI (CAREX FLAGELIFERA)

WIWI (FICINIA NODOSA)

WIWI (JUNCUS PALLIDUS)

HINAREPE (POA BILLARDIEREI)

- DIVERSITY SPECIES

SAND COPROSMA (COPROSMA ACEROSA)

COASTAL SHRUB DAISY (OLEARIA SOLANDRI)

MAKAKA, MAUKORO (CARMICHAELIA AUSTRALIS)

PIRIPIRI (ACAENA PALLIDA)

TT KŌUKA (CORDYLINE AUSTRALIS)

HARAKEKE (PHORMIUM TENAX) (COASTAL)

- RAINGARDEN PERMITER BATTER AND LANDSCAPED AREA SPECIES

SPECIES LISTED FOR FILTER MEDIA

LARGE SHRUBS AND TREES

SERVICES LEGEND

- SW

NEW STORMWATER
- SS

NEW SEWER
- SW

PROPOSED STORMWATER UTILITY DIVERSION
- NEW STORMWATER MANHOLE
- NEW CATCHPIT
- PROJECT AREA
- x

ABANDONED SERVICE
- PARCEL BOUNDARY
- PROPOSED GROUND LEVEL
- EXISTING GROUND LEVEL
- PROPRIETARY DEVICE
- PUMP STATION FOR DELUGE FLOWS
- VALVE CHAMBER
- FLOW DIRECTION
- DELUGE STORAGE TANKS
- EXISTING STORMWATER MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING SW CATCHPIT
- SW

EXISTING STORMWATER
- SW

EXISTING STORMWATER ABANDONED
- SS

EXISTING SEWER
- W

EXISTING WATER MAIN

GENERAL LEGEND:

- HARD LANDSCAPING
- SOFT LANDSCAPING
- EXISTING KERB
- CARRIAGEWAY
- NEW KERB / MARKINGS
- SHARED PATH / FOOTPATH
- SHARED SERVICE LANE
- MAINTENANCE / EMERGENCY ACCESS
- CONSTRUCTION WORKING AREA

ABBREVIATIONS

DIA	DIAMETER
DN	NOMINAL DIAMETER
IL	INVERT LEVEL
m	METERS
mm	MILLIMETERS
EX	EXISTING
PR	PROPOSED
MH	MANHOLE
CP	CATCHPIT
SW	STORMWATER
WW	WASTE WATER
LL	LID LEVEL
RL	REDUCED LEVEL
NZTM	NEW ZEALAND TRANSVERSE MERCATOR
GPT	GROSS POLLUTANT TRAP
HW	HEADWALL

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

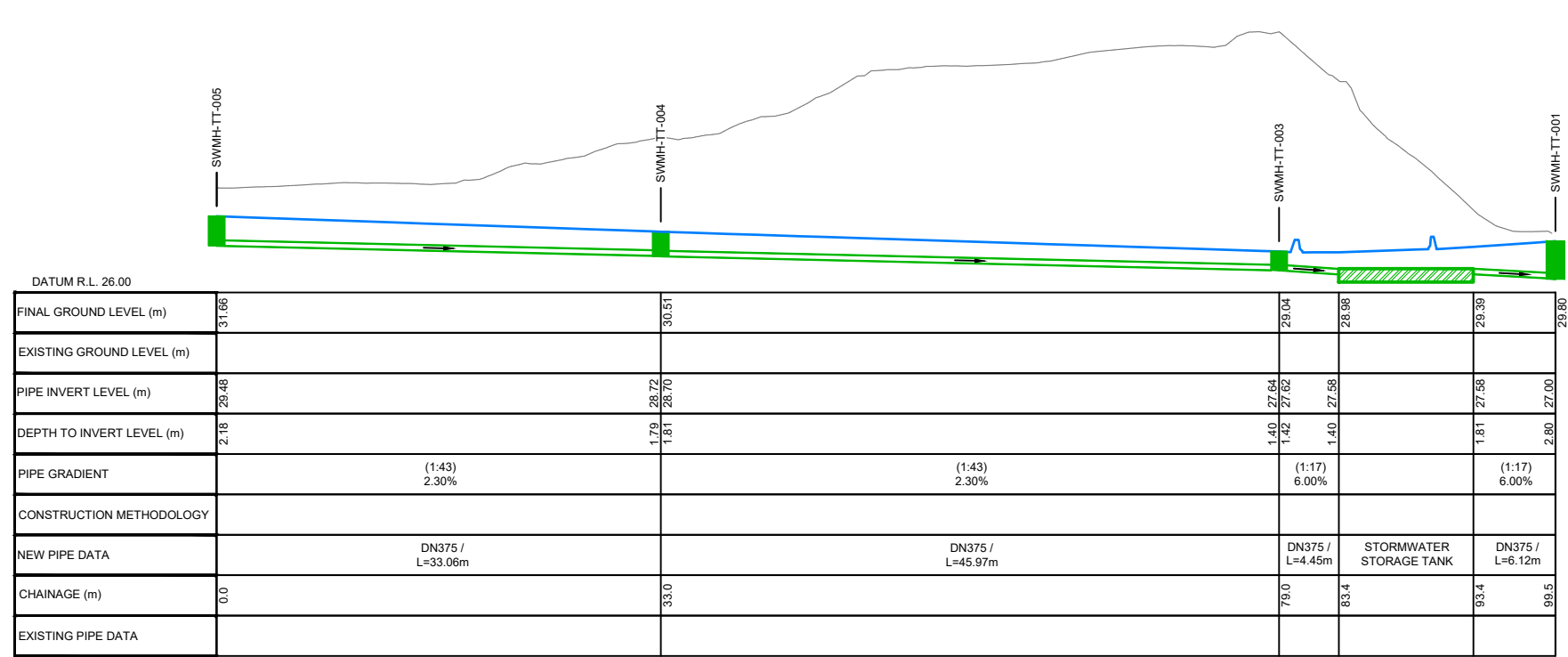
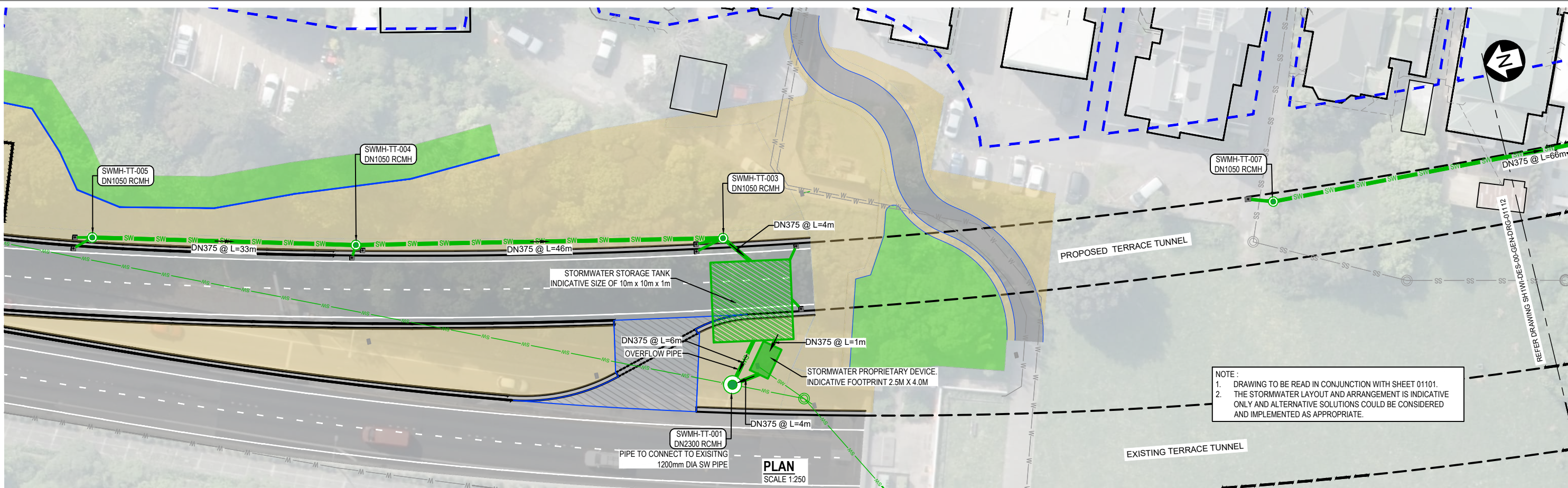


DRAINAGE

SCALES			ORIGINAL SIZE
NTS			A1
DRAWN	DESIGNED	APPROVED	
S. KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	

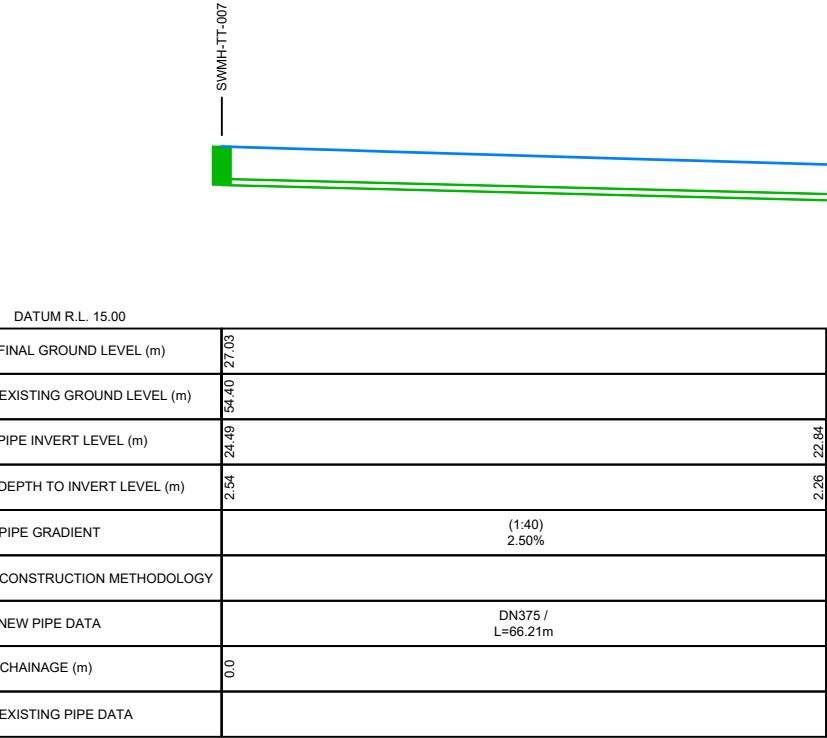
CONSENT DESIGN

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
TERRACE TUNNEL AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01101	A



LONGITUDINAL PROFILE 0.0 m TO 99.5 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1



LONGITUDINAL PROFILE 0.0 m TO 40.0 m

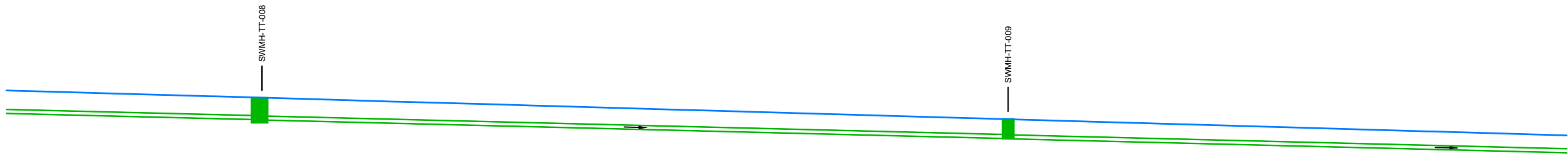
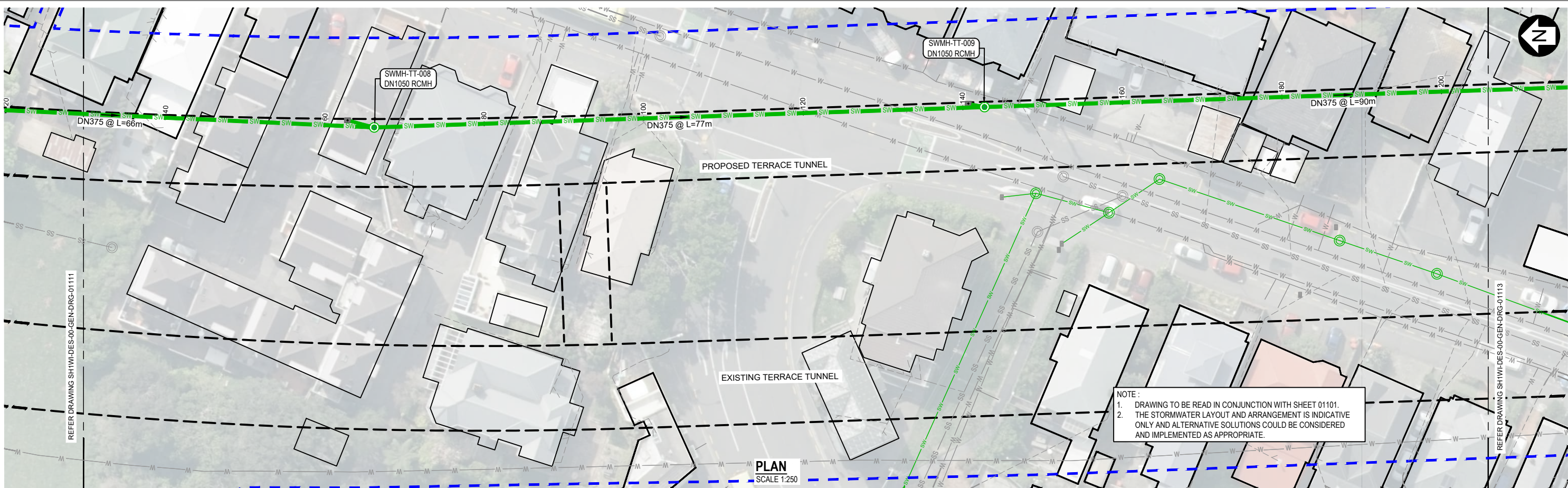
HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

REVISION	AMENDMENT	APPROVED	DATE
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SCALES		ORIGINAL SIZE
1:250 (A1) 1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED
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DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09
CONSSENT DESIGN		

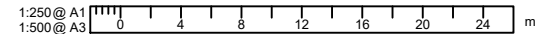
PROJECT		
NZ TRANSPORT AGENCY		
WELLINGTON		
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS		
TITLE		
STORMWATER NETWORK		
TERRACE TUNNEL AREA		
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5-C4800.01	SH1WI-DES-00-DNG-DRG	01111
		REVISION
		A



DATUM R.L. 12.00			
FINAL GROUND LEVEL (m)		25.10	
EXISTING GROUND LEVEL (m)		60.19	22.88
PIPE INVERT LEVEL (m)	24.49	22.84	20.91
DEPTH TO INVERT LEVEL (m)	2.54	2.26	1.98
PIPE GRADIENT	(1:40) 2.50%	(1:40) 2.50%	(1:40) 2.50%
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA	DN375 / L=66.21m	DN375 / L=76.53m	DN375 / L=89.90m
CHAINAGE (m)	0.0	66.2	142.7
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 40.0 m TO 200.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1



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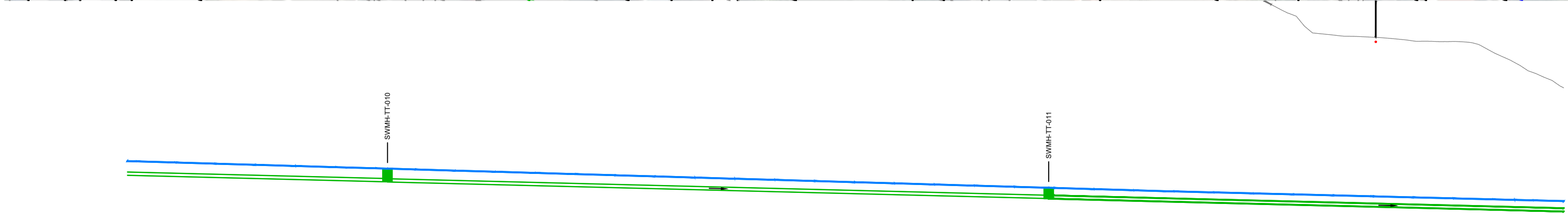
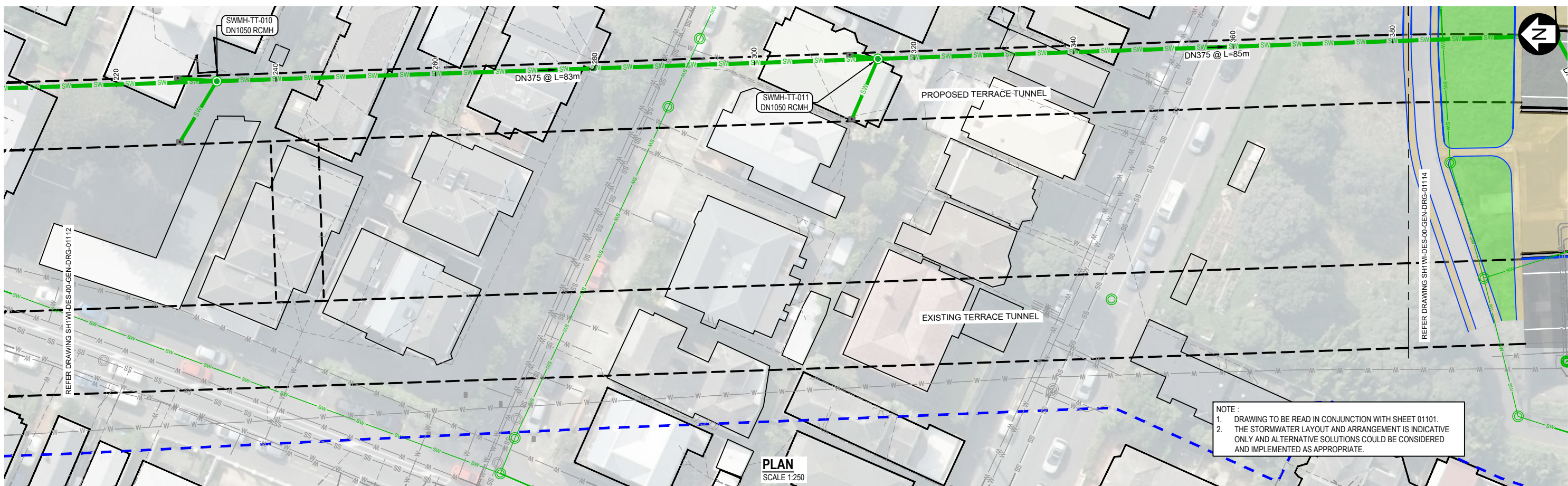


DRAINAGE

SCALES			ORIGINAL SIZE
1:250 (A1)	1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED	
S. KRISHNA	H. STROUD / J. DHANJEE	E. SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q. O'SHAUGHNESSY	F. SMITH	2026-07-09	

CONSENT DESIGN

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK TERRACE TUNNEL AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01112	REVISION A



DATUM R.L. 12.00				
FINAL GROUND LEVEL (m)				
EXISTING GROUND LEVEL (m)				
PIPE INVERT LEVEL (m)	20.89	18.64 18.62		17.88
DEPTH TO INVERT LEVEL (m)	2.00	1.64 1.66		1.33 1.35
PIPE GRADIENT	(1:40) 2.50%		(1:40) 2.50%	(1:40) 2.50%
CONSTRUCTION METHODOLOGY				
NEW PIPE DATA	DN375 / L=89.90m		DN375 / L=82.90m	DN375 / L=84.99m
CHAINAGE (m)	142.7	232.6		315.5
EXISTING PIPE DATA				

LONGITUDINAL PROFILE 200.0 m TO 380.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
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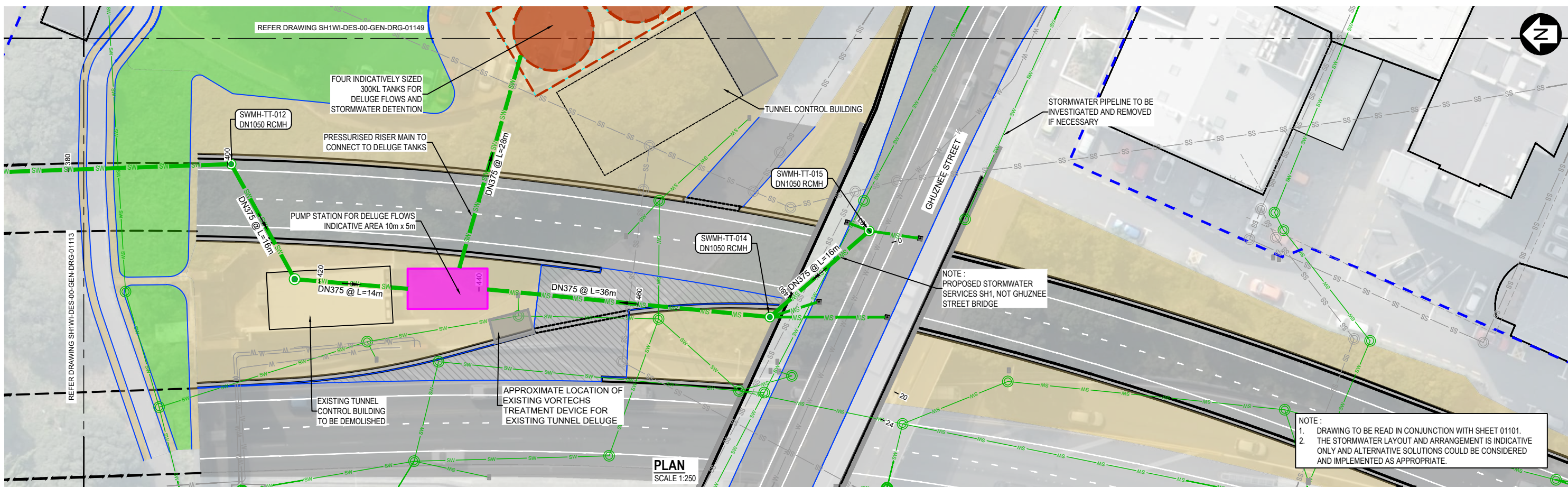


DRAINAGE

SCALES			ORIGINAL SIZE
1:250 (A1) 1:500 (A3)			A1
DRAWN	DESIGNED	APPROVED	
S. KRISHNA	H. STROUD / J. DHANJEE	E. SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q. O'SHAUGHNESSY	F. SMITH	2026-07-09	

CONSENT DESIGN

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK TERRACE TUNNEL AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01113	REVISION A



FINAL GROUND LEVEL (m)		15.67	15.28	14.90	14.61	13.82	14.04
EXISTING GROUND LEVEL (m)		23.54	15.93	15.91	16.06		
PIPE INVERT LEVEL (m)	16.53	14.41 14.39	13.89 13.87	13.38	12.04	12.22 12.24	12.65
DEPTH TO INVERT LEVEL (m)	1.35	1.27 1.29	1.38 1.40	1.53	2.57	1.60 1.58	1.39
PIPE GRADIENT	(1:40) 2.50%	(1:33) 3.00%	(1:29) 3.50%		(1:2) 0.50%	(1:40) 2.50%	
CONSTRUCTION METHODOLOGY							
NEW PIPE DATA		DN375 / L=84.99m	DN375 / L=16.45m	DN375 / L=14.20m		DN375 / L=35.52m	DN375 / L=16.47m
CHAINAGE (m)	315.5	400.4	416.9	431.1	441.1	476.6	493.1
EXISTING PIPE DATA							

LONGITUDINAL PROFILE 380.0 m TO 493.1 m

1:250 @ A1
1:500 @ A3

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

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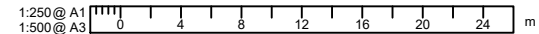
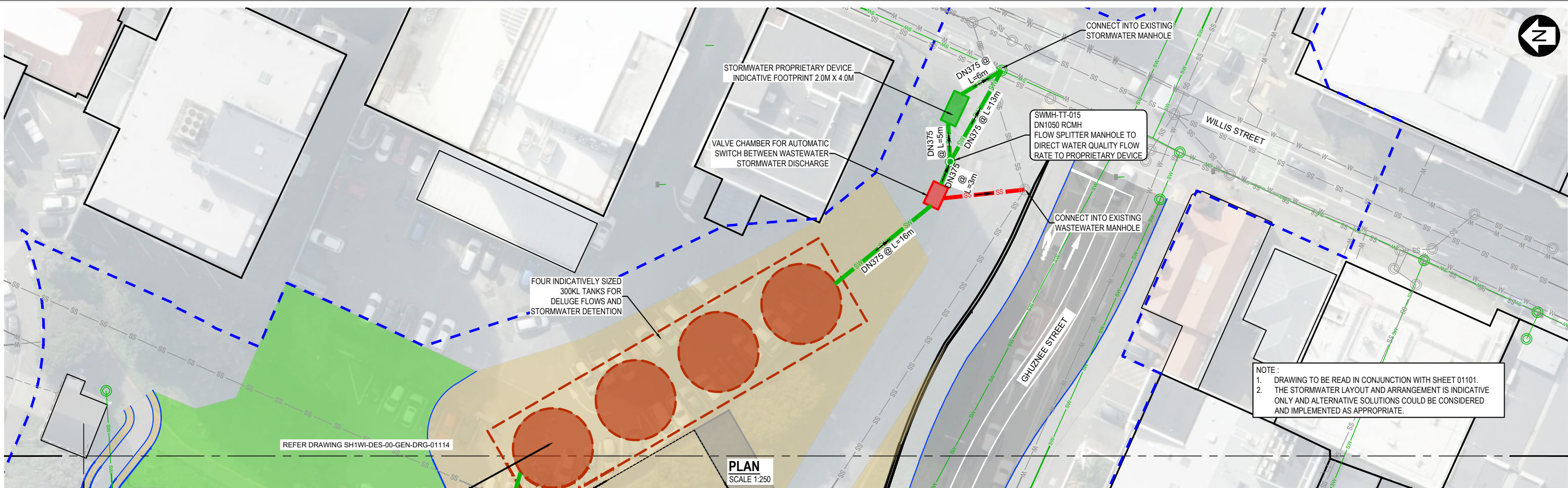


DRAINAGE

SCALES		ORIGINAL SIZE
1:250 (A1) 1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED
S. KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON
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CONSENT DESIGN

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
TERRACE TUNNEL AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01114	A

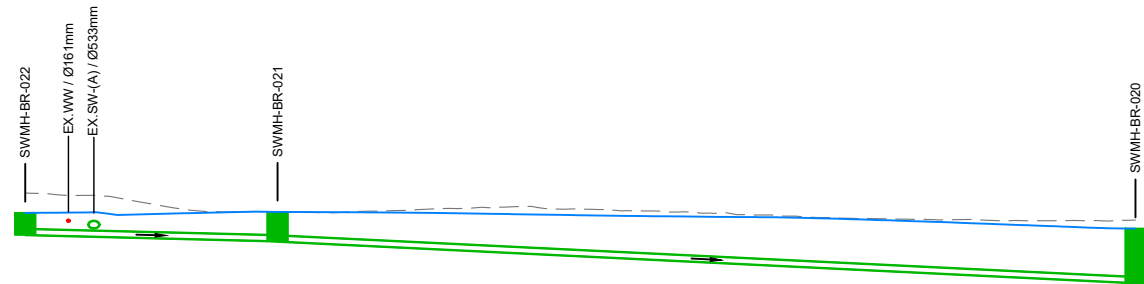
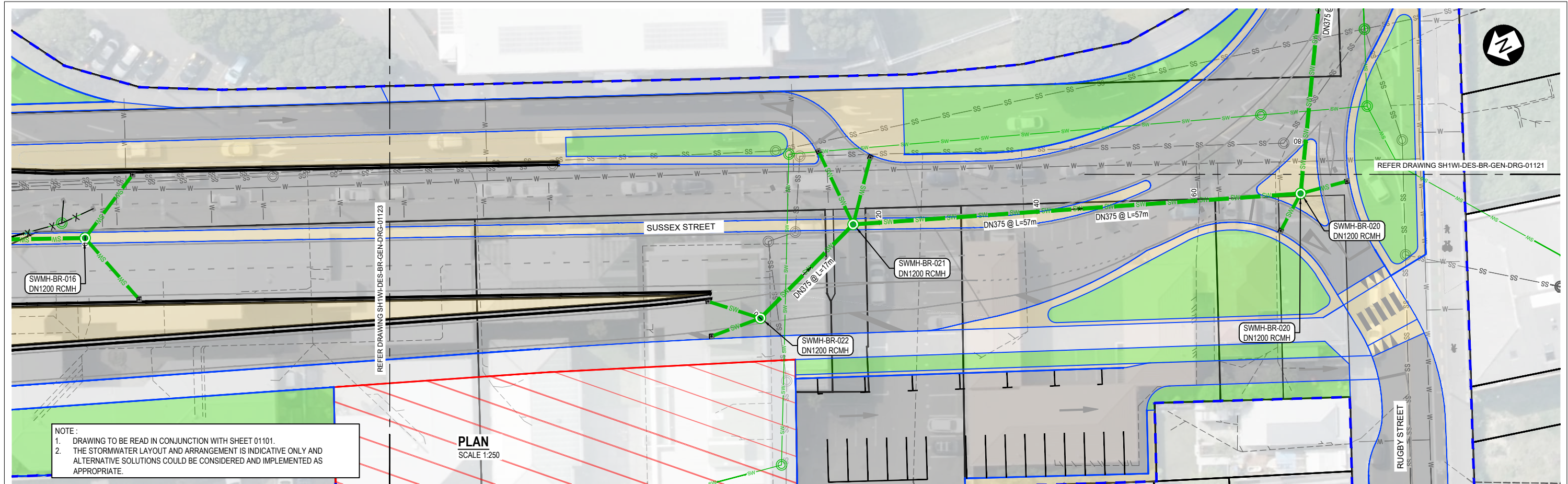


REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



SCALES			ORIGINAL SIZE
1:250 (A1) 1:500 (A3)			A1
DRAWN	DESIGNED	APPROVED	
S. KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
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Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	
CONSSENT DESIGN			

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
TERRACE TUNNEL AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01149	A



DATUM R.L. 5.00			
FINAL GROUND LEVEL (m)	12.80	12.86	
EXISTING GROUND LEVEL (m)	14.12	12.86	
PIPE INVERT LEVEL (m)	11.35	10.91	8.17
DEPTH TO INVERT LEVEL (m)	1.45	1.95	3.59
GRADIENT	2.50% (1:40)		4.83% (1:21)
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA	DN375 / L=16.70m	DN375 / L=56.83m	
DISTANCE (m)	0.0	16.7	73.4
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 0.0 m TO 73.4 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

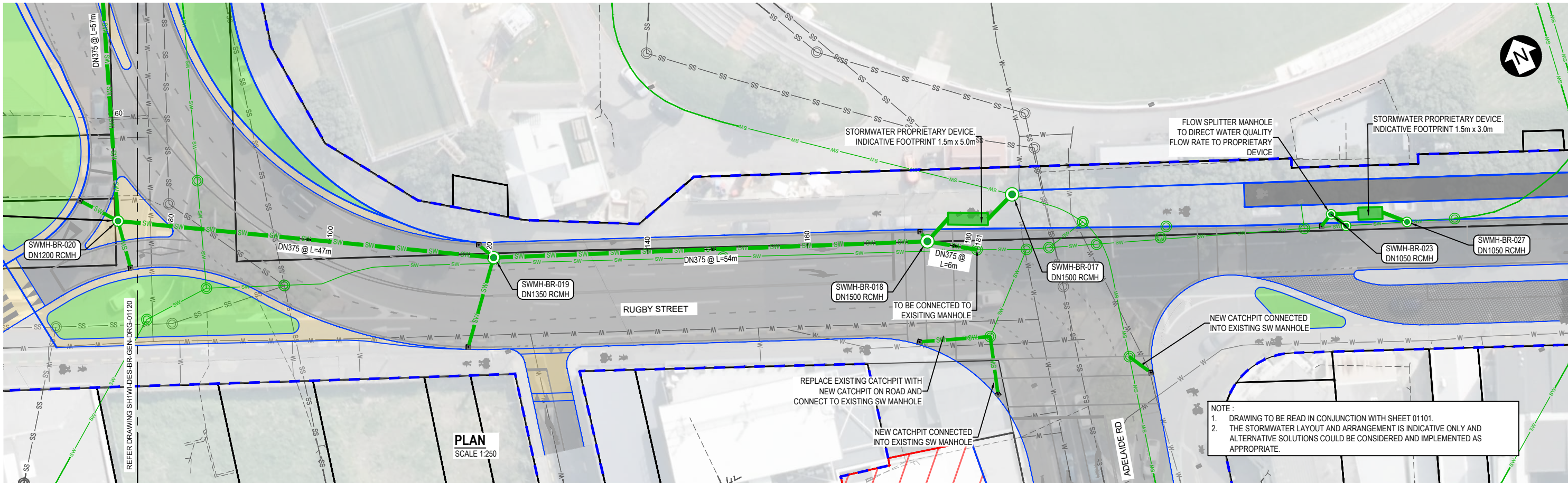
1:250 @ A1
1:500 @ A3

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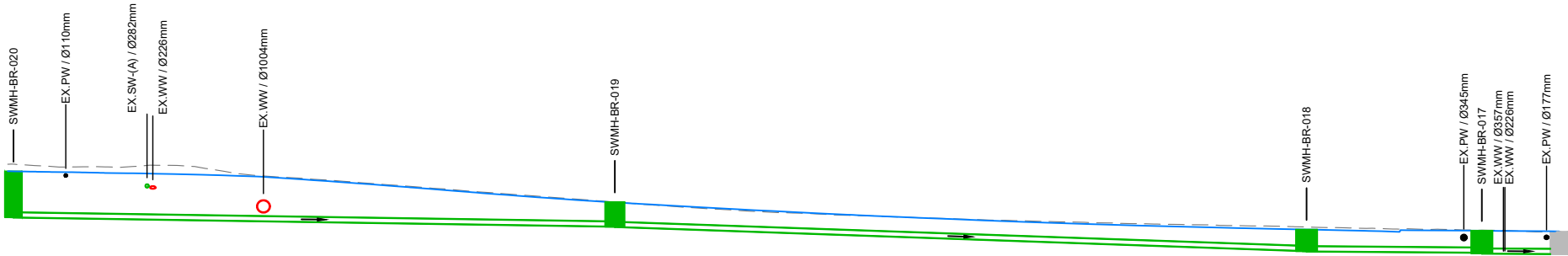


SCALES			ORIGINAL SIZE
1:250 (A1)	1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED	
S KRISHNA	A MACINTYRE / J DHANJEE	E SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q O'SHAUGHNESSY	F SMITH	2026-07-09	
DRAINAGE			
CONSSENT DESIGN			

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
BASIN RESERVE AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01120	A



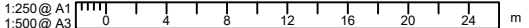
PLAN
SCALE 1:250



DATUM R.L. 2.00					
FINAL GROUND LEVEL (m)	11.76	9.32	7.19	7.10	7.05
EXISTING GROUND LEVEL (m)	12.33	9.34	7.39	7.14	7.01
PIPE INVERT LEVEL (m)	8.15	7.42 7.40	5.50 5.48	5.38 5.31	5.28
DEPTH TO INVERT LEVEL (m)	3.61	1.90 1.92	1.89 1.71	1.72 1.79	1.77
GRADIENT	1.54% (1:65)		0.73% (1:137)	0.50% (1:200)	
CONSTRUCTION METHODOLOGY					
NEW PIPE DATA	DN375 / L=47.24m	DN375 / L=54.36m	DN375 / L=13.77m	DN375 / L=6.06m	
DISTANCE (m)	73.4	120.7 120.7	175.0 175.0	188.8 188.8	194.8
EXISTING PIPE DATA					

LONGITUDINAL PROFILE 73.0 m TO 198.3 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

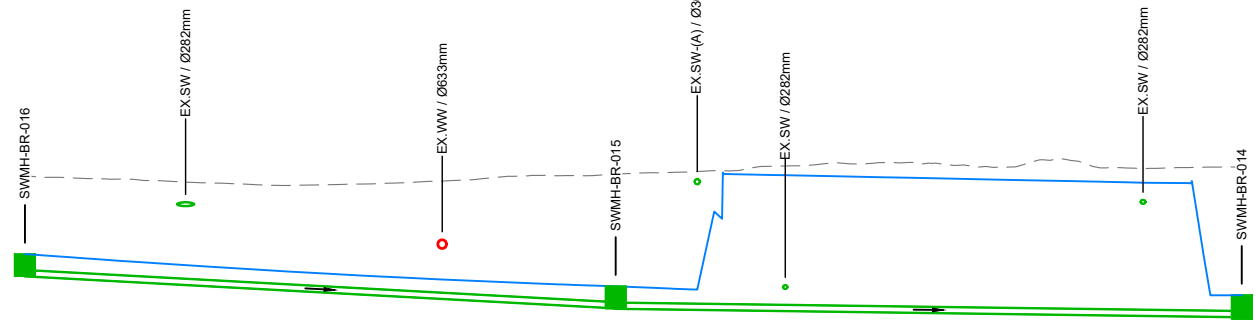
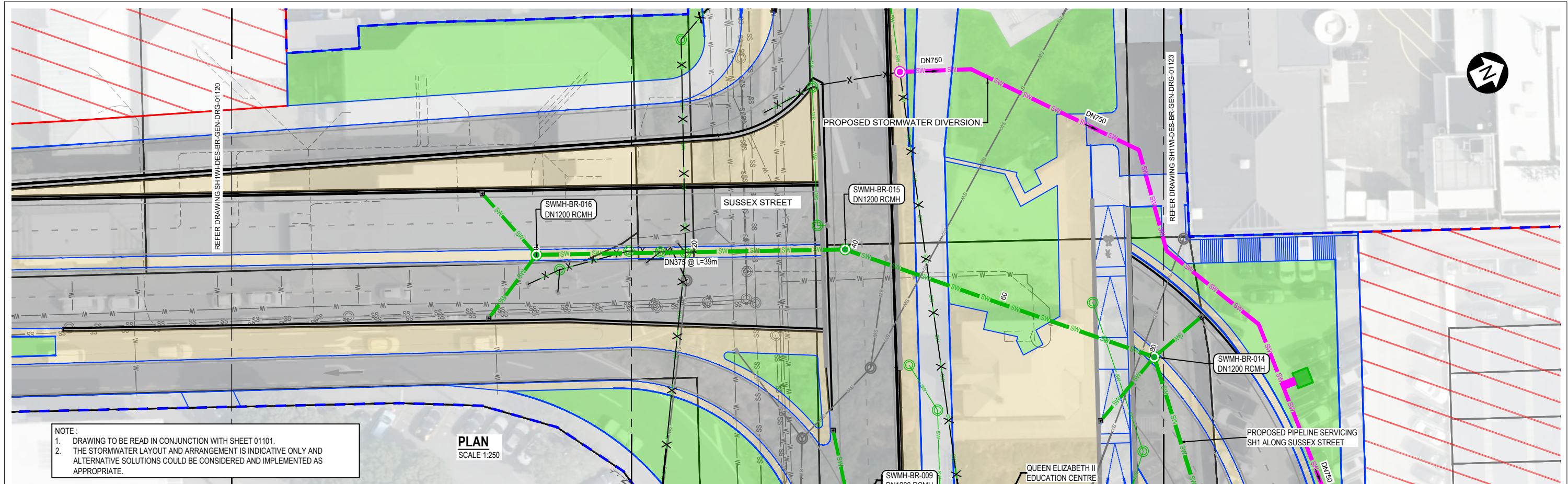


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SCALES			ORIGINAL SIZE
1:250 (A1)	1:500 (A3)		A1
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S KRISHNA	A MACINTYRE / J DHANJEE	E SUTTON	
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Q O'SHAUGHNESSY	F SMITH	2026-07-09	
CONSSENT DESIGN			

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK BASIN RESERVE AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01121	REVISION A



DATUM R.L. 2.00		
FINAL GROUND LEVEL (m)	8.34	6.21
EXISTING GROUND LEVEL (m)	13.49	13.62
PIPE INVERT LEVEL (m)	6.89	4.76
DEPTH TO INVERT LEVEL (m)	1.45	1.47
GRADIENT	5.45% (1:18)	1.35% (1:74)
CONSTRUCTION METHODOLOGY		
NEW PIPE DATA	DN375 / L=39.14m	DN375 / L=41.42m
DISTANCE (m)	0.0	39.1
EXISTING PIPE DATA		80.5

LONGITUDINAL PROFILE 0.0 m TO 80.5 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

1:250 @ A1
1:500 @ A3

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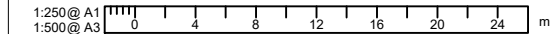
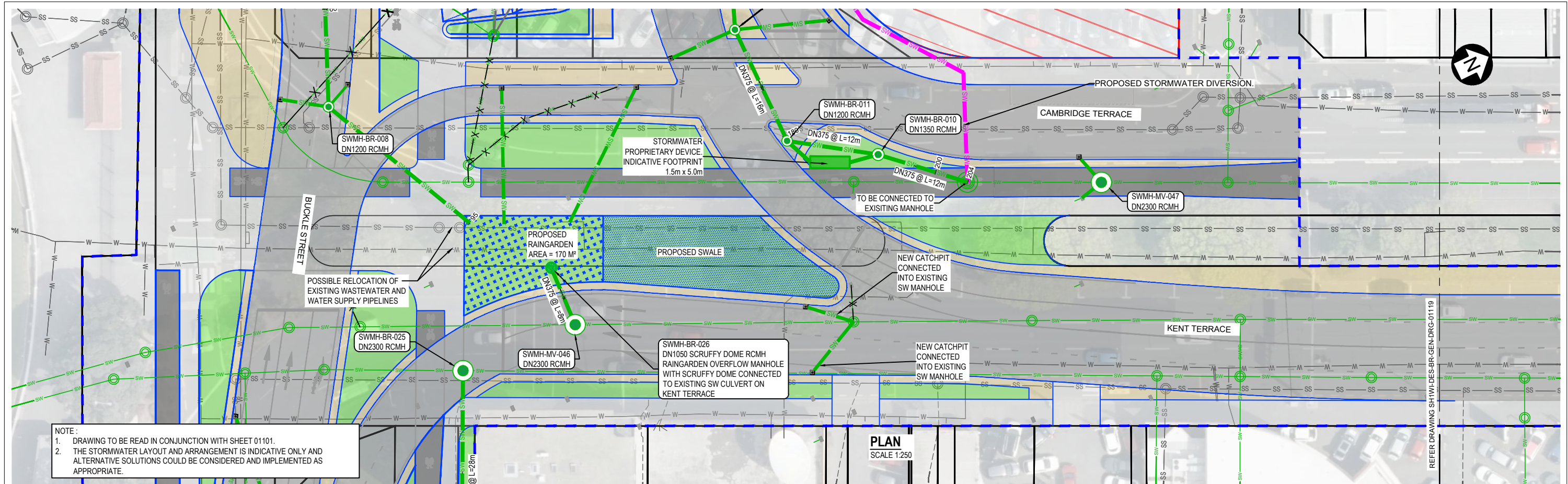


DRAINAGE

SCALES		ORIGINAL SIZE
1:250 (A1)	1:500 (A3)	A1
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CONSENT DESIGN

PROJECT		
NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS		
TITLE		
STORMWATER NETWORK BASIN RESERVE AREA		
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.
5-C4800.01	SH1WI-DES-00-DNG-DRG	01122
REVISION		A

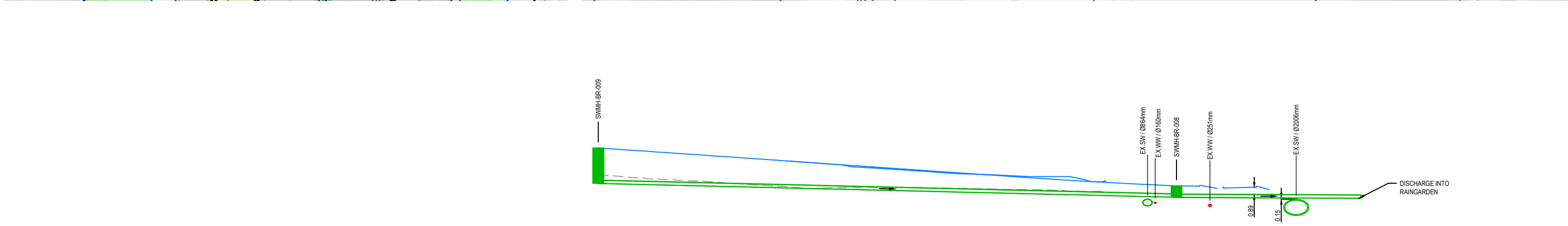
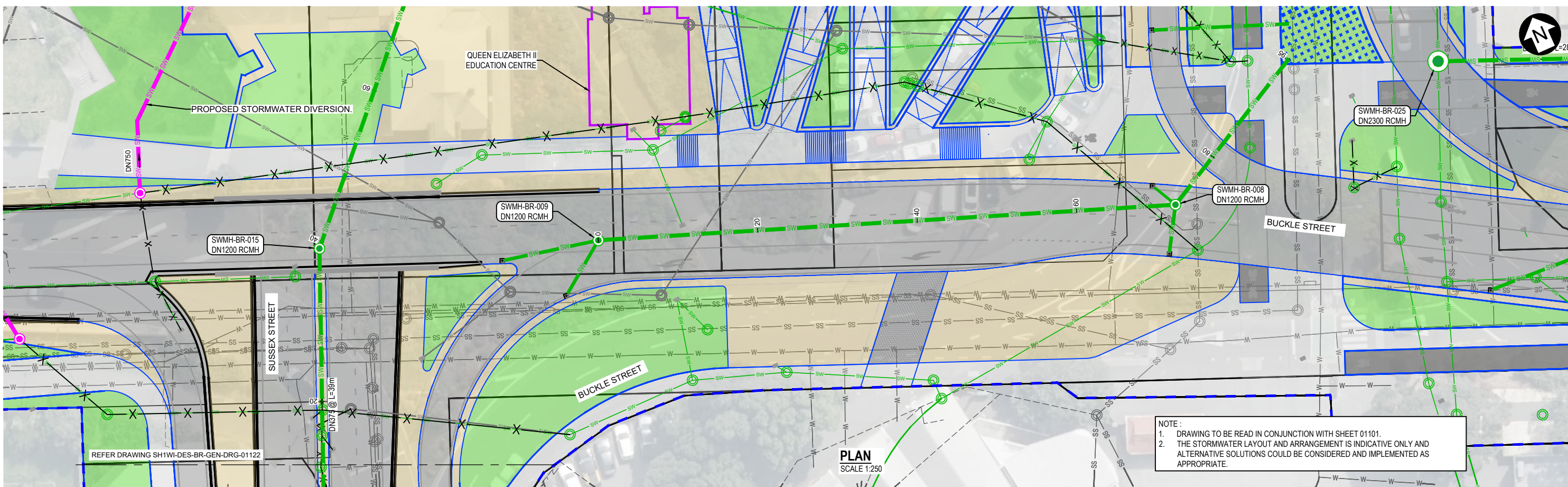


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SCALES		ORIGINAL SIZE
1:250 (A1) 1:500 (A3)		A1
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STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
BASIN RESERVE AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01124	A



DATUM R.L. 0.00			
FINAL GROUND LEVEL (m)	11.02		
EXISTING GROUND LEVEL (m)	7.87		
PIPE INVERT LEVEL (m)	6.60	4.88	4.74
DEPTH TO INVERT LEVEL (m)	4.42	1.41	0.19
GRADIENT		2.38% (1:42)	0.50% (1:200)
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA		DN375 / L=72.41m	DN375 / L=23.07m
DISTANCE (m)	0.0	72.4	95.5
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 0.0 m TO 95.5 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

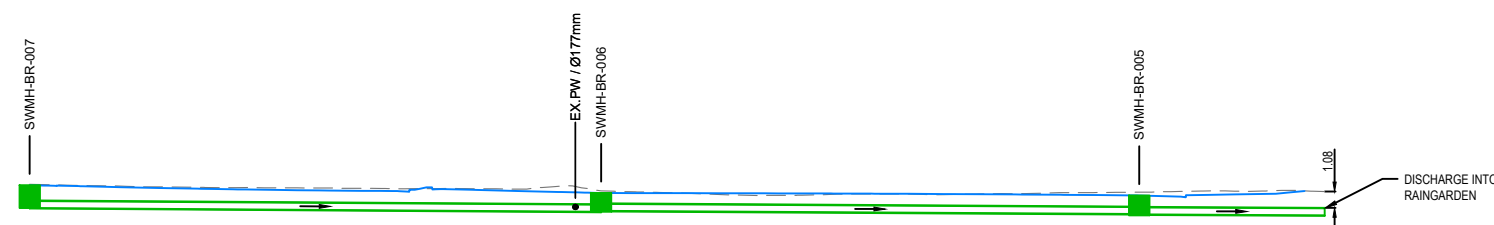
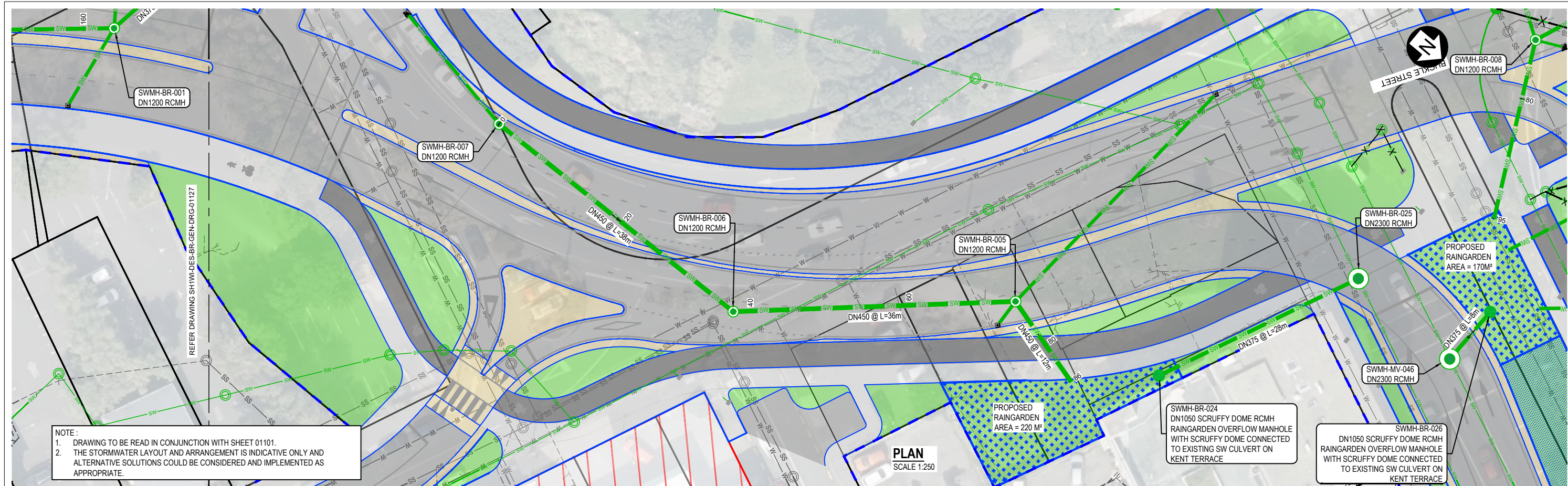


DRAINAGE

SCALES			ORIGINAL SIZE
1:250 (A1)	1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED	
S KRISHNA	A MACINTYRE / J DHANJEE	E SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q O'SHAUGHNESSY	F SMITH	2026-07-09	

CONSENT DESIGN

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK BASIN RESERVE AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01125	REVISION A

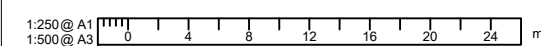


FINAL GROUND LEVEL (m)	6.21	5.78	5.70	5.74
EXISTING GROUND LEVEL (m)	6.16	5.64	5.48	
PIPE INVERT LEVEL (m)	4.65	4.40	4.25	4.17
DEPTH TO INVERT LEVEL (m)	1.51	1.24	1.23	0.23
GRADIENT	0.65% (1:154)	0.60% (1:167)	0.50% (1:200)	
CONSTRUCTION METHODOLOGY				
NEW PIPE DATA	DN450 / L=37.81m	DN450 / L=35.59m	DN450 / L=12.26m	
DISTANCE (m)	0.0	37.8	73.4	85.7
EXISTING PIPE DATA				

LONGITUDINAL PROFILE 0.0 m TO 85.7 m

HORIZONTAL SCALE 1:250 @ A1

VERTICAL SCALE 1:250 @ A1



REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

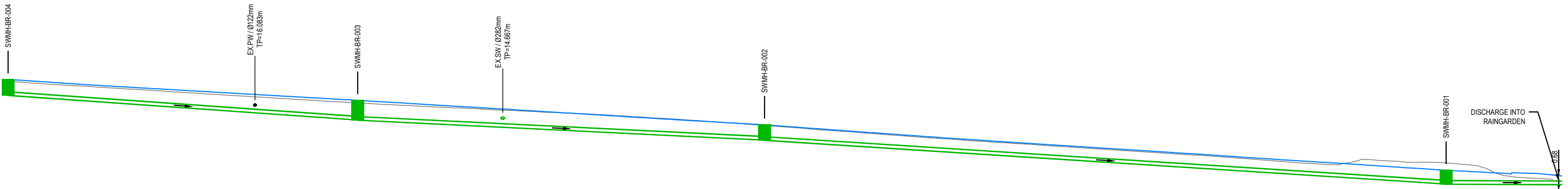
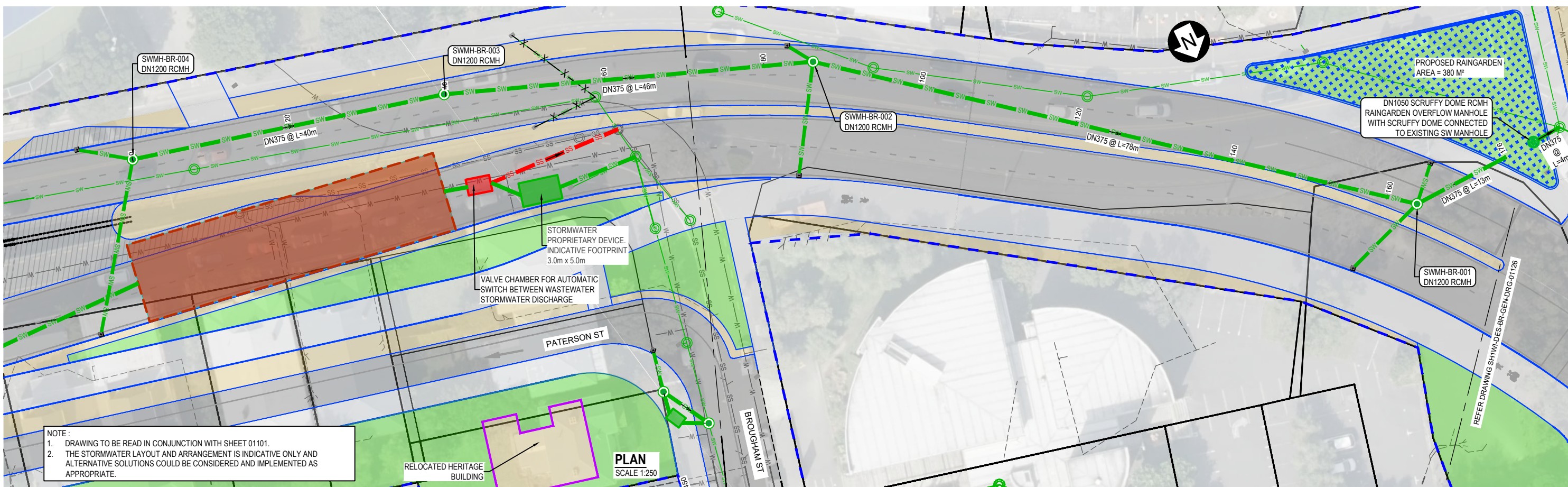


SCALES	DESIGNED	APPROVED
1:250 (A1) 1:500 (A3)	A.MACINTYRE / J.DHANJEE	E.SUTTON
DRAWN		
S.KRISHNA		
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09

DRAINAGE

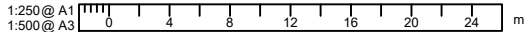
CONSSENT DESIGN

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
BASIN RESERVE AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01126	A



DATUM R.L. 5.00					
FINAL GROUND LEVEL (m)					8.22
EXISTING GROUND LEVEL (m)	18.70	16.27	13.70	9.44	8.59
PIPE INVERT LEVEL (m)	17.13	14.33	12.03	7.03	6.95
DEPTH TO INVERT LEVEL (m)	1.81	2.22 0.19	0.19	1.55 1.57	1.27
GRADIENT	7.03% (1:14)	4.92% (1:20)		6.41% (1:16)	0.48% (1:206)
CONSTRUCTION METHODOLOGY					
NEW PIPE DATA	DN375 / L=39.92m	DN375 / L=46.41m		DN375 / L=77.82m	DN375 / L=12.58m
DISTANCE (m)	0.0	39.8 39.8	86.2 86.2	163.8 163.8	176
EXISTING PIPE DATA					

LONGITUDINAL PROFILE 0.0 m TO 184.1 m



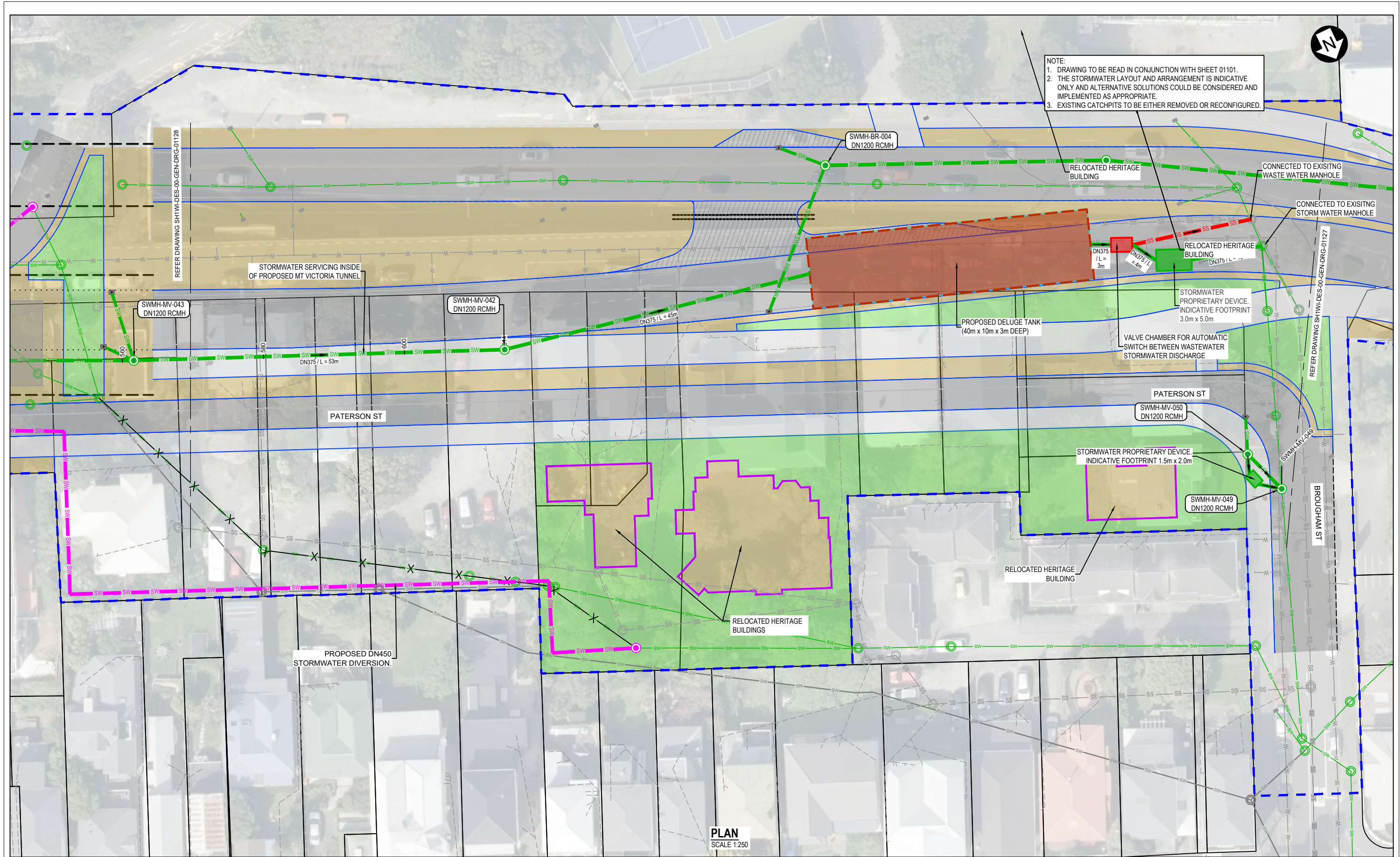
HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



SCALES 1:250 (A1) 1:500 (A3)			ORIGINAL SIZE A1
DRAWN S KRISHNA	DESIGNED A MACINTYRE / J DHANJEE	APPROVED E SUTTON	
DRAWING VERIFIED Q O'SHAUGHNESSY	DESIGN VERIFIED F SMITH	APPROVED DATE 2026-07-09	

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK BASIN RESERVE AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01127	REVISION A



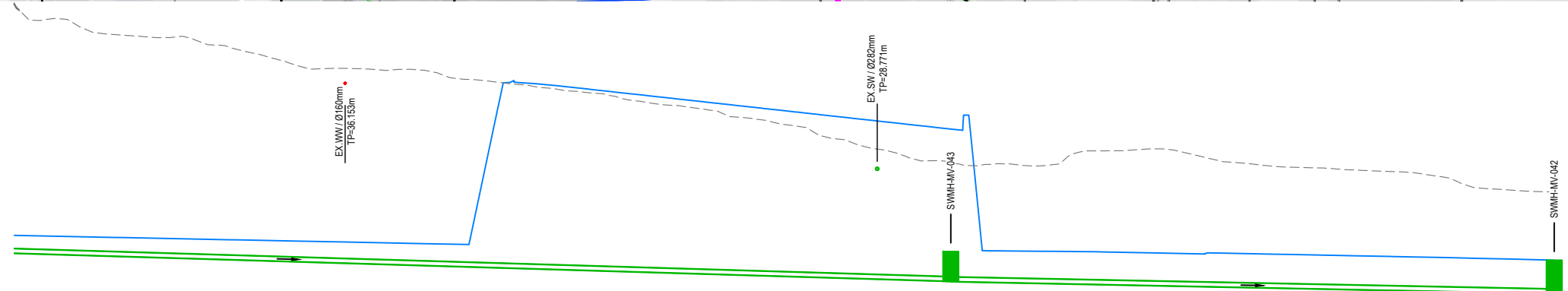
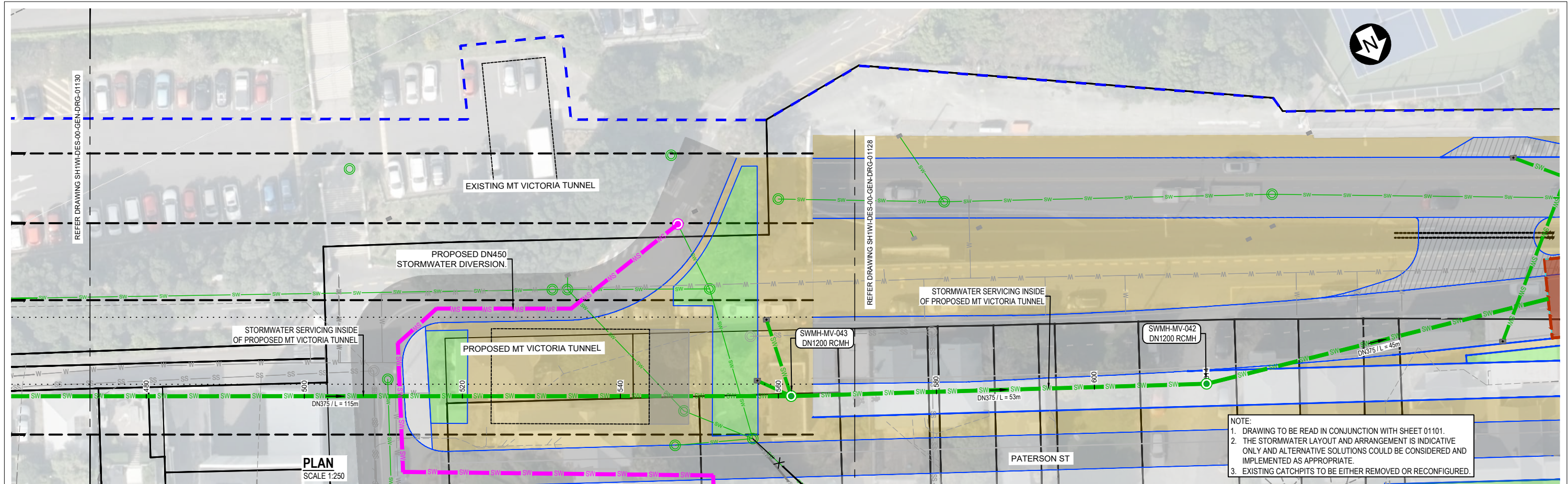
NOTE:
1. DRAWING TO BE READ IN CONJUNCTION WITH SHEET 01101.
2. THE STORMWATER LAYOUT AND ARRANGEMENT IS INDICATIVE ONLY AND ALTERNATIVE SOLUTIONS COULD BE CONSIDERED AND IMPLEMENTED AS APPROPRIATE.
3. EXISTING CATCHPITS TO BE EITHER REMOVED OR RECONFIGURED.

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



SCALES			ORIGINAL SIZE
1:250 (A1)	1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	
CONSSENT DESIGN			

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01128	A



DATUM R.L. 15.00				
FINAL GROUND LEVEL (m)			32.09	20.68
EXISTING GROUND LEVEL (m)				
PIPE INVERT LEVEL (m)	22.31		18.84	17.75
DEPTH TO INVERT LEVEL (m)	24.82		10.34	2.93
GRADIENT		3.00% (1:33)		2.00% (1:50)
CONSTRUCTION METHODOLOGY				
NEW PIPE DATA		DN375 / L=115.46m		DN375 / L=52.60m
DISTANCE (m)	446.2		561.6	614.2
EXISTING PIPE DATA				

LONGITUDINAL PROFILE 480.0 m TO 650.0 m

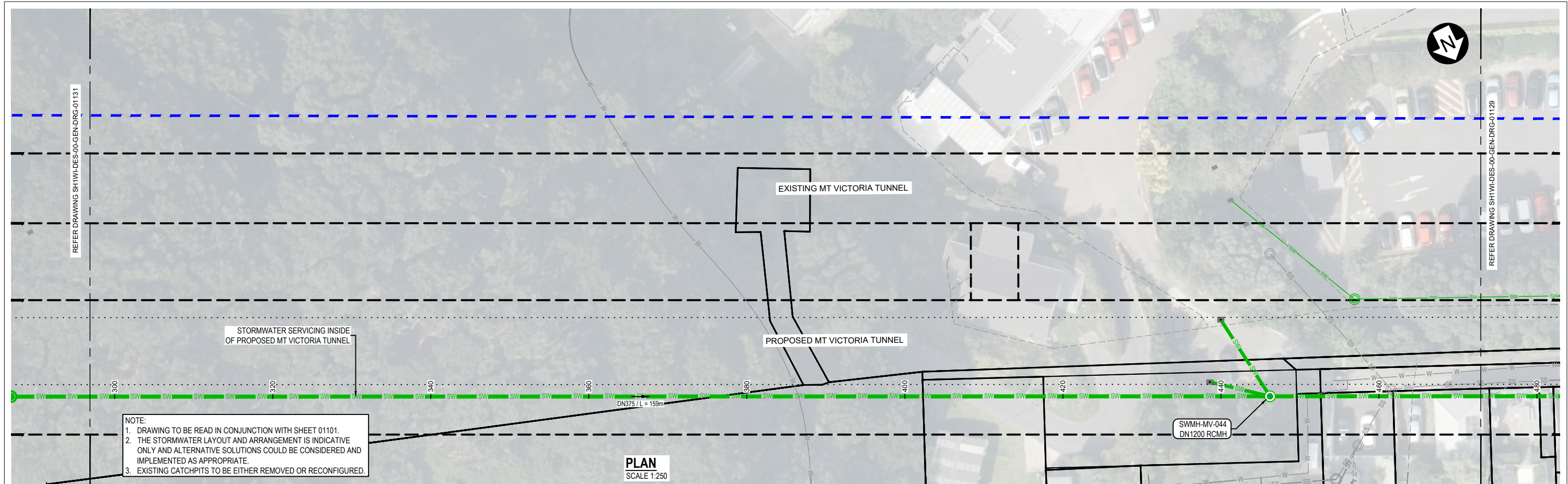
HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



SCALES			ORIGINAL SIZE
1:250 @ A1	1:500 @ A3		A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01129	A



DATUM R.L. 15.00

FINAL GROUND LEVEL (m)		23.51	
EXISTING GROUND LEVEL (m)			
PIPE INVERT LEVEL (m)	26.37	22.33	18.84
DEPTH TO INVERT LEVEL (m)	68.78	24.82	10.34
GRADIENT			3.00% (1:33)
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA			DN375 / L=115.46m
DISTANCE (m)	286.9	446.2	561.6
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 305.0 m TO 480.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

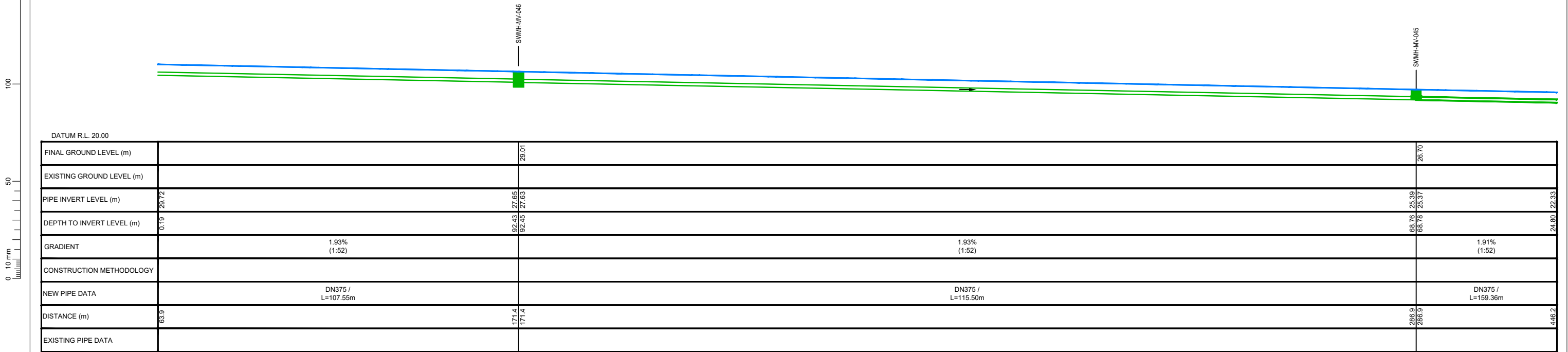
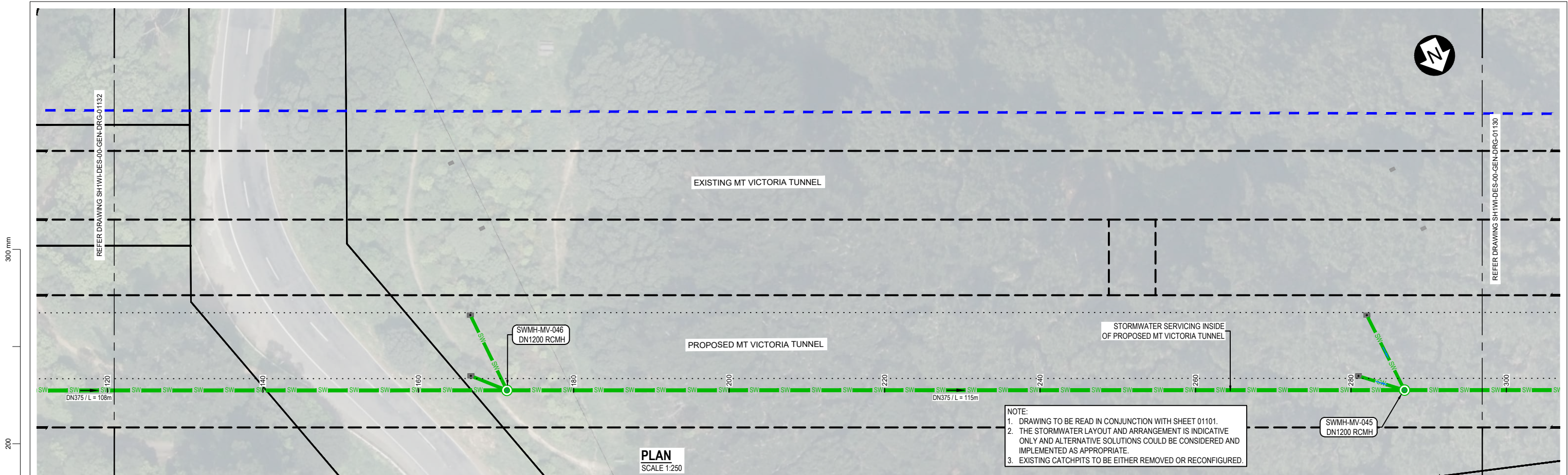


DRAINAGE

SCALES			ORIGINAL SIZE
1:250 (A1) 1:500 (A3)			A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	

CONSENT DESIGN

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK HATAITAI AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 00130	REVISION A



LONGITUDINAL PROFILE 125.0 m TO 305.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

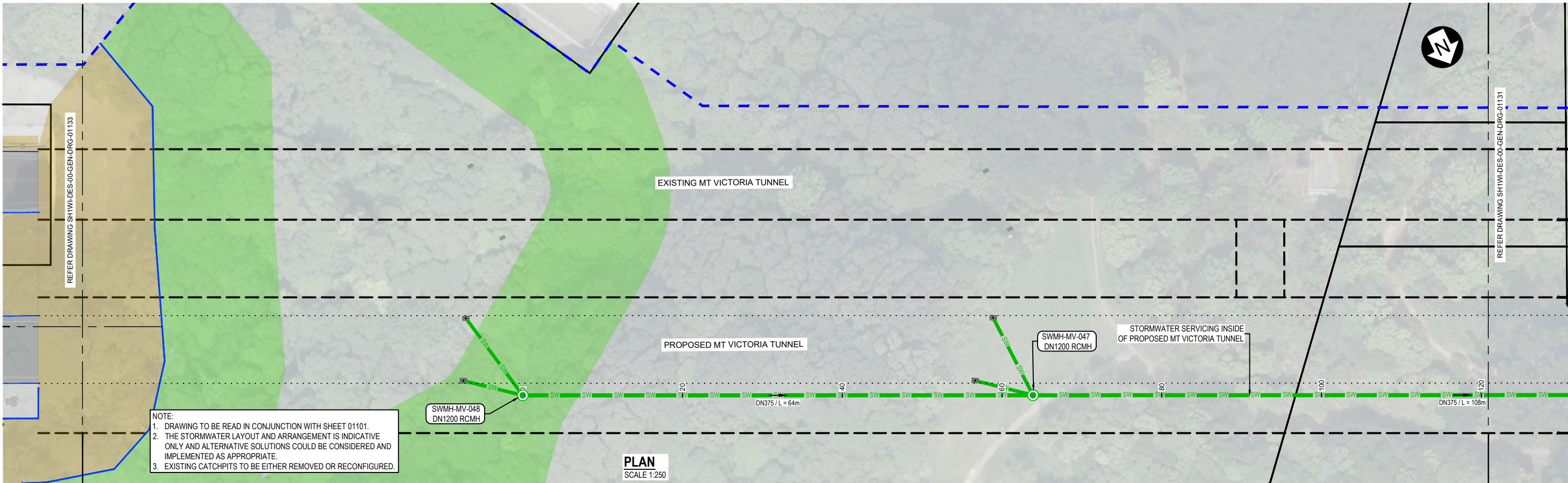
1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



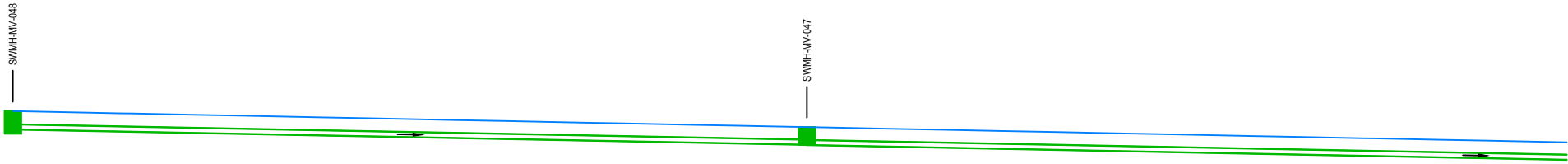
SCALES		ORIGINAL SIZE
1:250 (A1) 1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09
CONSENT DESIGN		

PROJECT			
NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	00131	A



NOTE:
1. DRAWING TO BE READ IN CONJUNCTION WITH SHEET 01101.
2. THE STORMWATER LAYOUT AND ARRANGEMENT IS INDICATIVE ONLY AND ALTERNATIVE SOLUTIONS COULD BE CONSIDERED AND IMPLEMENTED AS APPROPRIATE.
3. EXISTING CATCHPITS TO BE EITHER REMOVED OR RECONFIGURED.

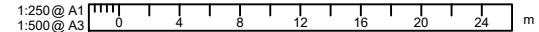
PLAN
SCALE 1:250



DATUM R.L. 20.00			
FINAL GROUND LEVEL (m)	32.43	31.16	
EXISTING GROUND LEVEL (m)			
PIPE INVERT LEVEL (m)	30.98	28.74	27.65
DEPTH TO INVERT LEVEL (m)	0.19	0.19	92.43
GRADIENT	1.94% (1:52)		1.93% (1:52)
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA	DN375 / L=63.89m		DN375 / L=107.55m
DISTANCE (m)	0.0	63.9	171.4
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 0.0 m TO 125.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

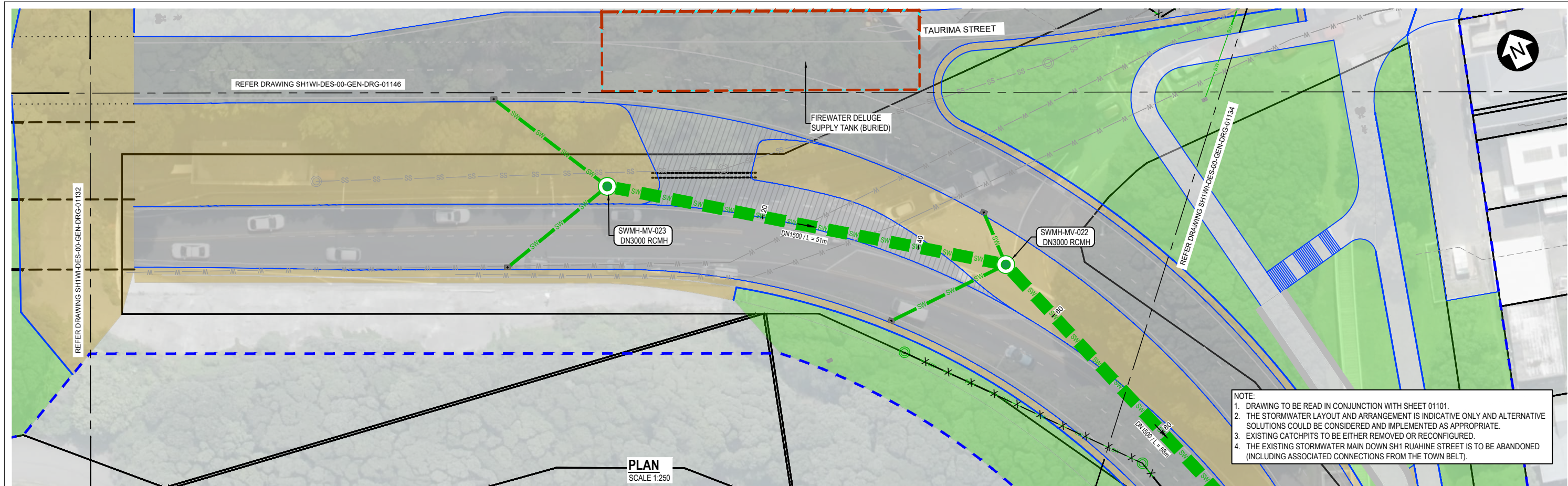


REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

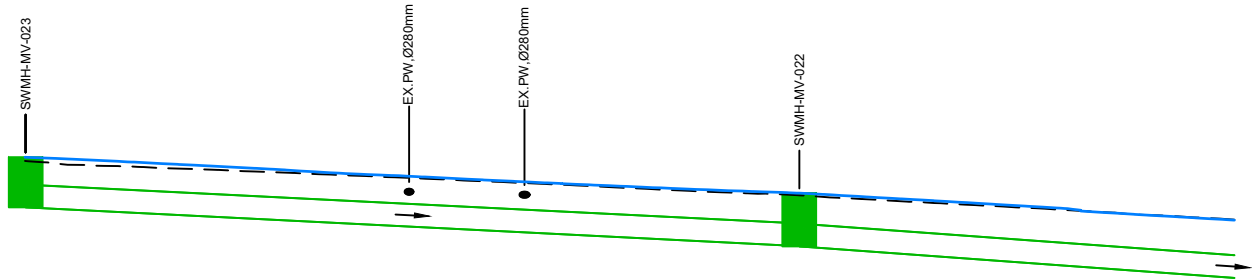


SCALES 1:250 (A1) 1:500 (A3)		ORIGINAL SIZE A1
DRAWN S.KRISHNA	DESIGNED H.STROUD / J.DHANJEE	APPROVED E.SUTTON
DRAWING VERIFIED Q.O'SHAUGHNESSY	DESIGN VERIFIED F.SMITH	APPROVED DATE 2026-07-09
CONSSENT DESIGN		

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK HATAITAI AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01132	REVISION A



NOTE:
1. DRAWING TO BE READ IN CONJUNCTION WITH SHEET 01101.
2. THE STORMWATER LAYOUT AND ARRANGEMENT IS INDICATIVE ONLY AND ALTERNATIVE SOLUTIONS COULD BE CONSIDERED AND IMPLEMENTED AS APPROPRIATE.
3. EXISTING CATCHPITS TO BE EITHER REMOVED OR RECONFIGURED.
4. THE EXISTING STORMWATER MAIN DOWN SH1 RUAHINE STREET IS TO BE ABANDONED (INCLUDING ASSOCIATED CONNECTIONS FROM THE TOWN BELT).



DATUM R.L. 20.00			
FINAL GROUND LEVEL (m)	32.93	30.55	
EXISTING GROUND LEVEL (m)	32.68	30.41	
PIPE INVERT LEVEL (m)	29.61	27.05	
DEPTH TO INVERT LEVEL (m)	3.31	3.52	22.87
PIPE GRADIENT	(1:20) 5.00%	(1:14) 7.26%	
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA	DN1500 / L = 51.24m	DN1500 / L = 57.54m	
CHAINAGE (m)	0.0	51.2	
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 0.0 m TO 80.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

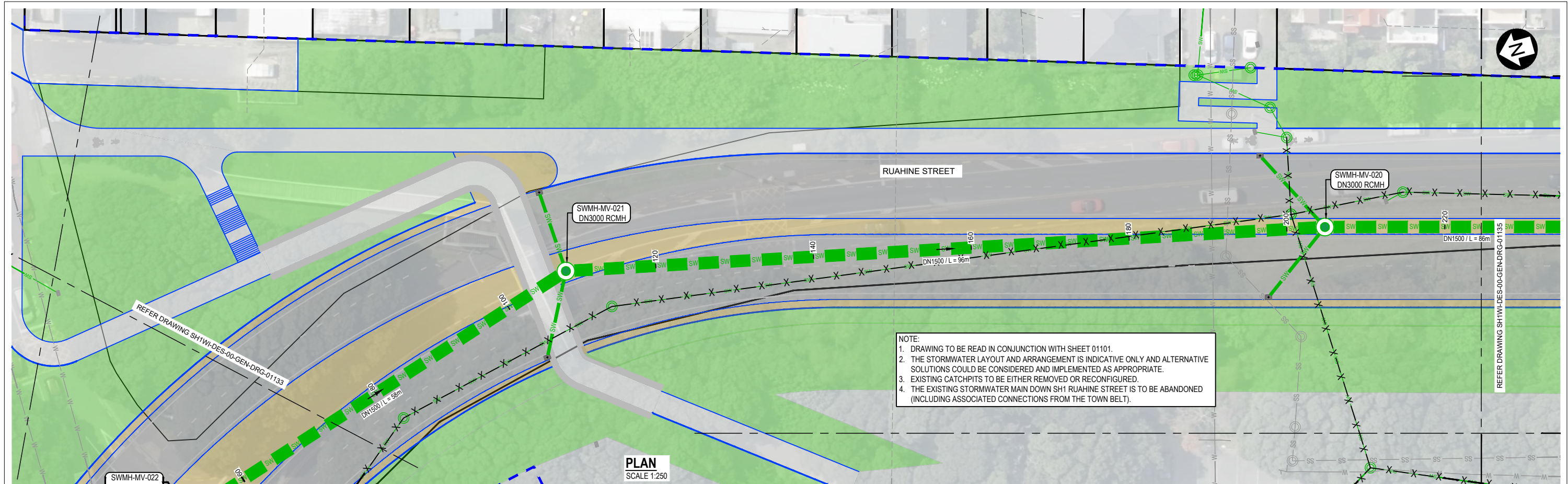


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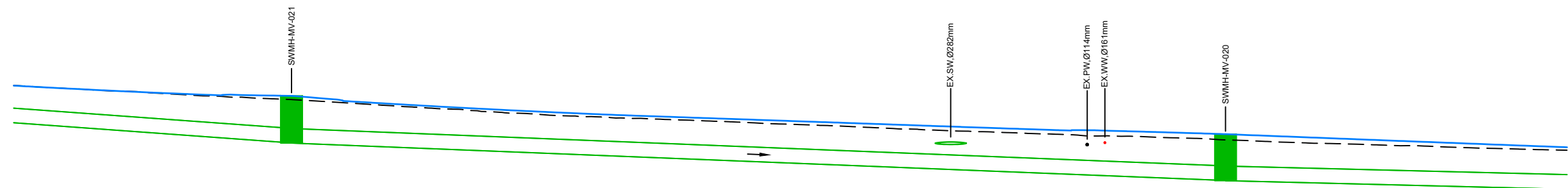
SCALES			ORIGINAL SIZE
1:250 (A1)	1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	

CONSENT DESIGN

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK HATAITAI AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01133	REVISION A



NOTE:
1. DRAWING TO BE READ IN CONJUNCTION WITH SHEET 01101.
2. THE STORMWATER LAYOUT AND ARRANGEMENT IS INDICATIVE ONLY AND ALTERNATIVE SOLUTIONS COULD BE CONSIDERED AND IMPLEMENTED AS APPROPRIATE.
3. EXISTING CATCHPITS TO BE EITHER REMOVED OR RECONFIGURED.
4. THE EXISTING STORMWATER MAIN DOWN SH1 RUAHINE STREET IS TO BE ABANDONED (INCLUDING ASSOCIATED CONNECTIONS FROM THE TOWN BELT).



DATUM R.L. 15.00			
FINAL GROUND LEVEL (m)		27.72	
EXISTING GROUND LEVEL (m)		27.34	23.77
PIPE INVERT LEVEL (m)	27.03	22.87	19.00
DEPTH TO INVERT LEVEL (m)	3.52	4.85	4.77
PIPE GRADIENT	(1:14) 7.26%	(1:25) 4.00%	(1:40) 2.50%
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA	DN1500 / L = 57.54m	DN1500 / L = 96.29m	DN1500 / L = 86.44m
CHAINAGE (m)	51.2	108.6	204.8
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 80.0 m TO 240.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

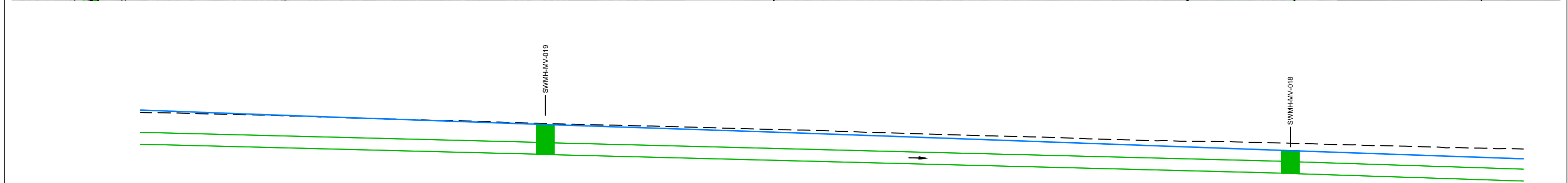
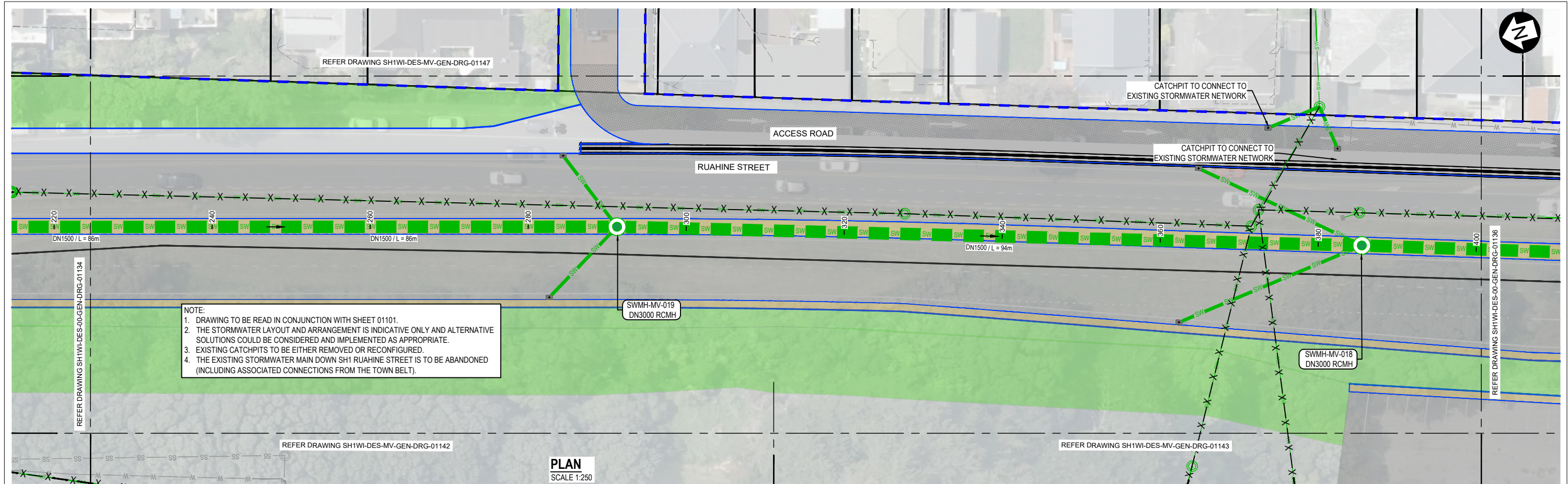


DRAINAGE

SCALES			ORIGINAL SIZE
1:250 (A1)	1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	

CONSENT DESIGN

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK HATAITAI AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01134	REVISION A



DATUM R.L. 8.00			
FINAL GROUND LEVEL (m)		20.59	17.29
EXISTING GROUND LEVEL (m)		20.72	18.24
PIPE INVERT LEVEL (m)	18.98	16.82	14.42
DEPTH TO INVERT LEVEL (m)	4.79	3.77	2.87
PIPE GRADIENT	(1:40) 2.50%	(1:40) 2.52%	(1:31) 3.25%
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA	DN1500 / L = 86.44m	DN1500 / L = 94.31m	DN1500 / L = 101.07m
CHAINAGE (m)	204.3	291.2	385.5
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 240.0 m TO 415.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

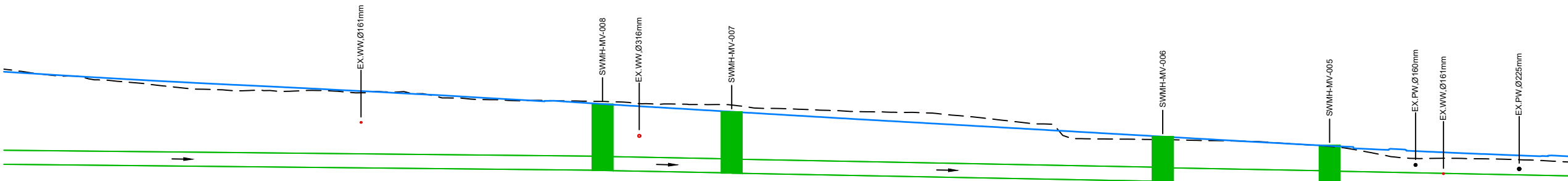
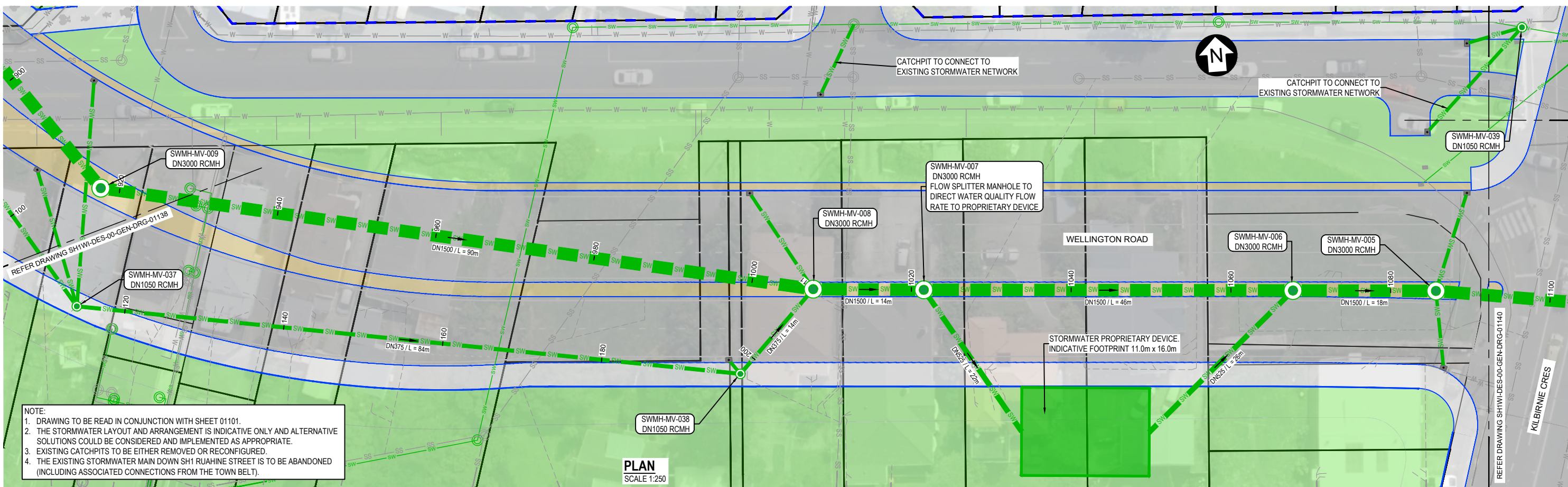


DRAINAGE

SCALES			ORIGINAL SIZE
1:250 (A1) 1:500 (A3)			A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	

CONSENT DESIGN

PROJECT			
NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01135	A



DATUM R.L. 1.00									
FINAL GROUND LEVEL (m)									
EXISTING GROUND LEVEL (m)									
PIPE INVERT LEVEL (m)	5.75								
DEPTH TO INVERT LEVEL (m)	11.41								
PIPE GRADIENT	(1:100) 1.00%								
CONSTRUCTION METHODOLOGY									
NEW PIPE DATA	DN1500 / L = 90.09m								
CHAINAGE (m)	916.1								
EXISTING PIPE DATA									

LONGITUDINAL PROFILE 942.0 m TO 1110.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

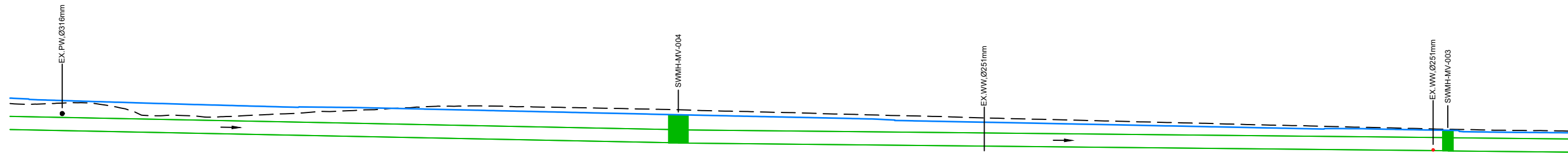
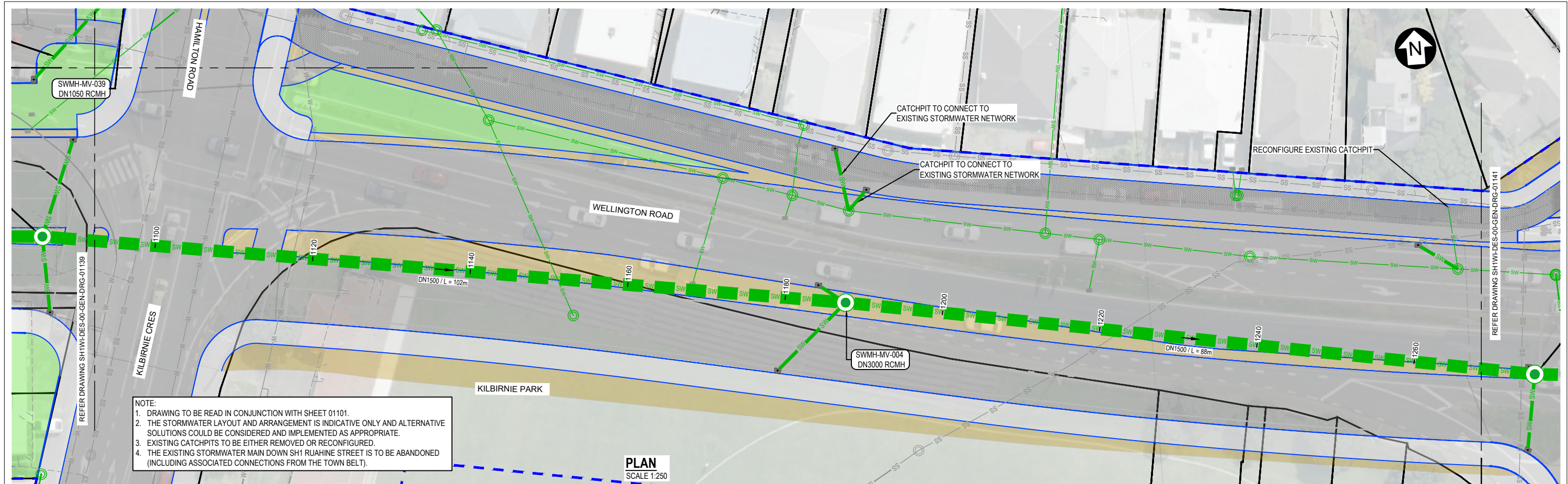
1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



SCALES			ORIGINAL SIZE	
1:250 (A1) 1:500 (A3)			A1	
DRAWN	DESIGNED	APPROVED		
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON		
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE		
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09		

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01139	A



DATUM R.L. -3.00			
FINAL GROUND LEVEL (m)		4.43	2.66
EXISTING GROUND LEVEL (m)		5.01	2.76
PIPE INVERT LEVEL (m)	3.27	1.23	0.33
DEPTH TO INVERT LEVEL (m)	4.20	3.23	2.33
PIPE GRADIENT	(1:50) 2.00%		(1:100) 1.00%
CONSTRUCTION METHODOLOGY			
NEW PIPE DATA	DN1500 / L = 102.01m		DN1500 / L = 51.26m
CHAINAGE (m)	1084.2	1186.1	1273.8
EXISTING PIPE DATA			

LONGITUDINAL PROFILE 1110.0 m TO 1287.6 m

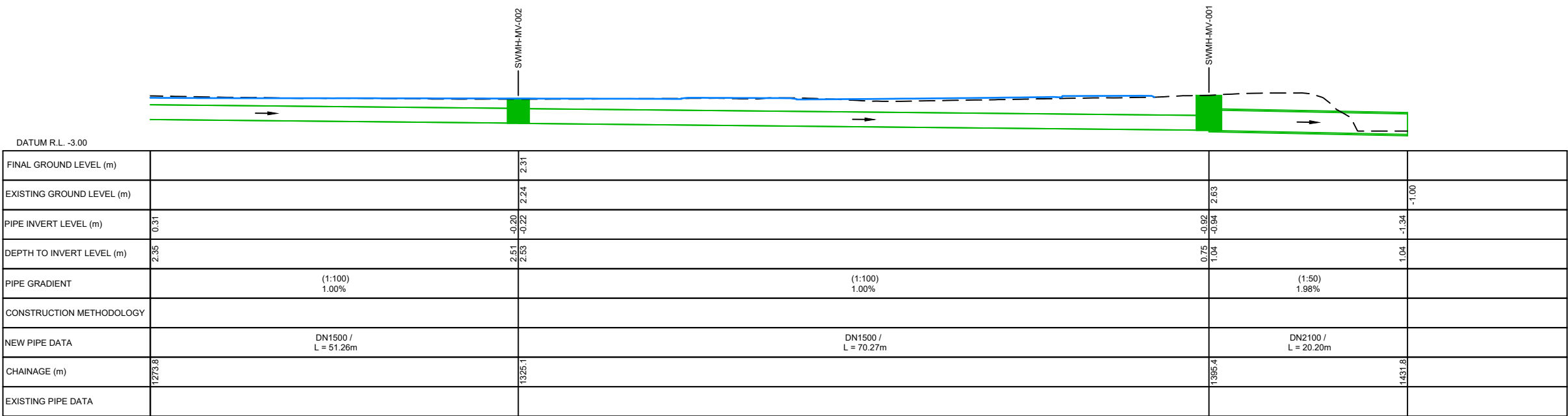
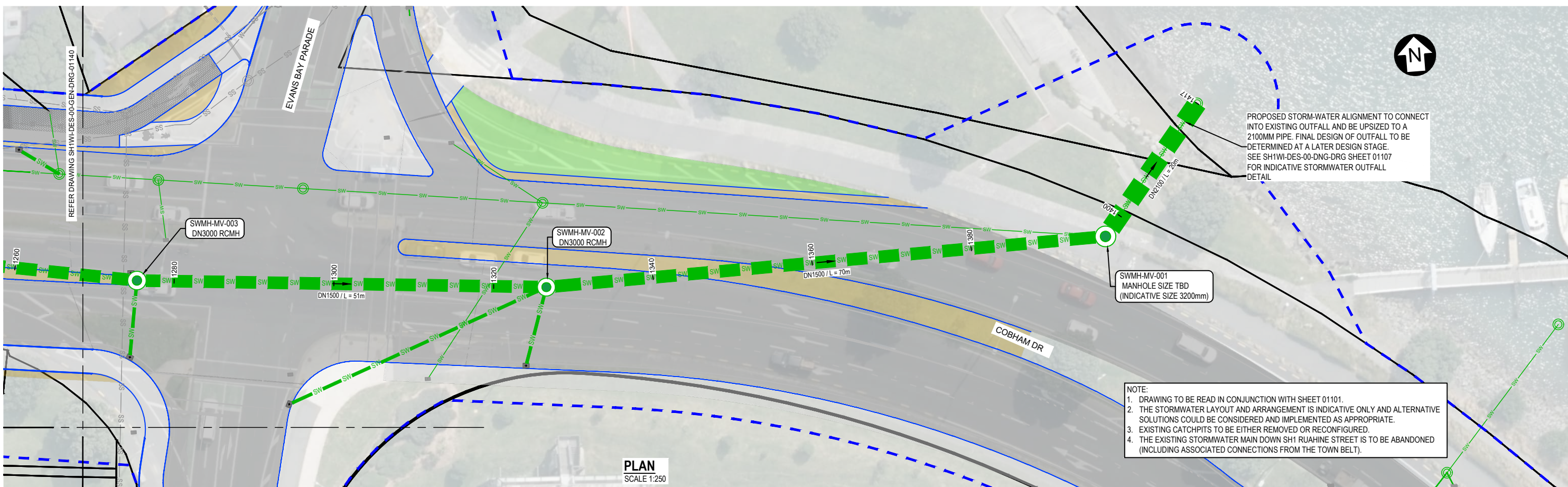
HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



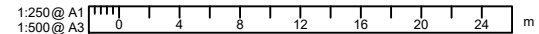
SCALES			ORIGINAL SIZE
1:250 @ A1	1:500 @ A3		A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	
CONSSENT DESIGN			

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01140	A



LONGITUDINAL PROFILE 1287.6 m TO 1431.8 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

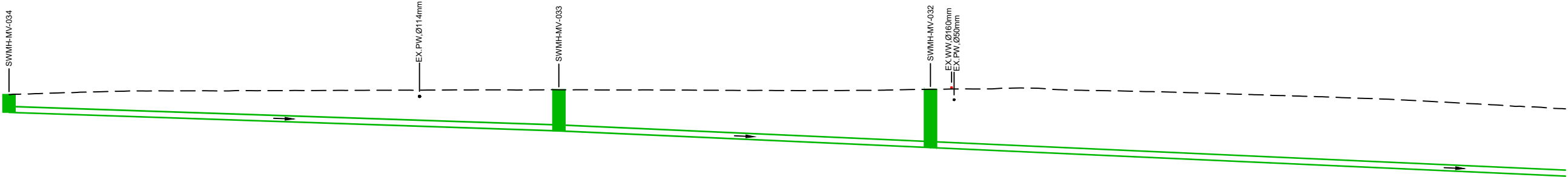
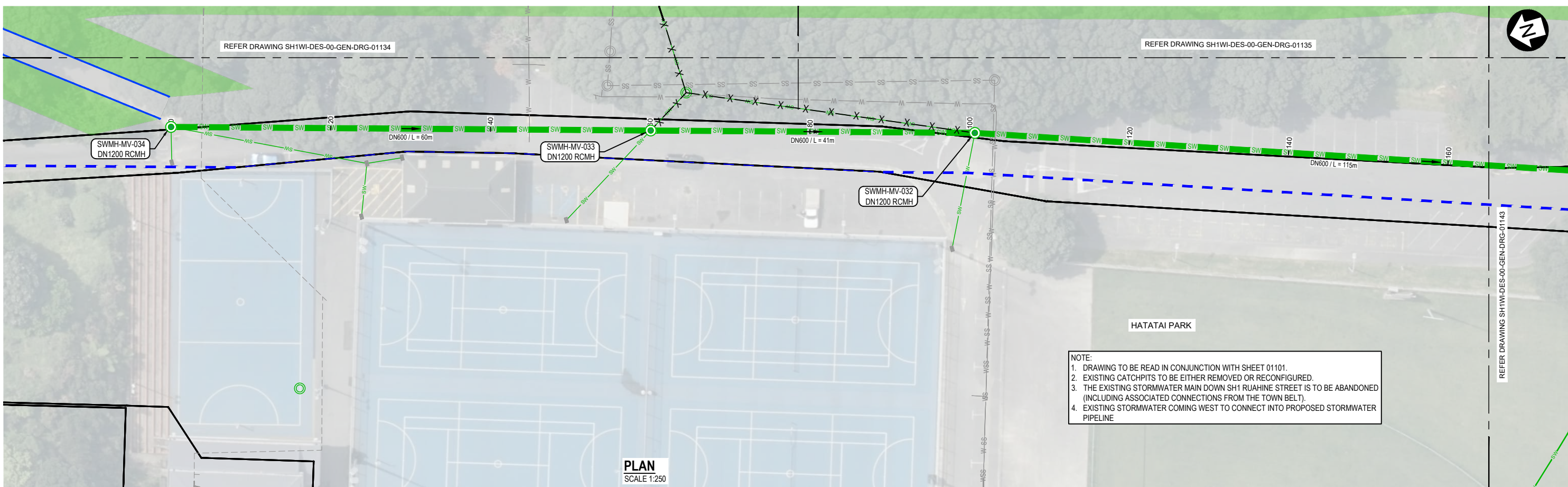


REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



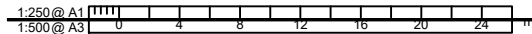
SCALES			ORIGINAL SIZE
1:250 (A1) 1:500 (A3)			A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	
DRAINAGE			
CONSENT DESIGN			

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01141	A



DATUM R.L. 20.00				
FINAL GROUND LEVEL (m)				
EXISTING GROUND LEVEL (m)	34.63	35.15	35.20	
PIPE INVERT LEVEL (m)	32.69	30.67	28.84	23.69
DEPTH TO INVERT LEVEL (m)	1.94	4.48	6.36	6.02
PIPE GRADIENT	(1:30) 3.37%	(1:22) 4.50%	(1:22) 4.50%	
CONSTRUCTION METHODOLOGY				
NEW PIPE DATA	DN600 / L = 60.09m	DN600 / L = 40.63m	DN600 / L = 114.56m	
CHAINAGE (m)	0.0	60.1	100.6	
EXISTING PIPE DATA				

LONGITUDINAL PROFILE 0.0 m TO 170.0 m
HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1



REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



DRAINAGE

SCALES
1:250 (A1) 1:500 (A3)

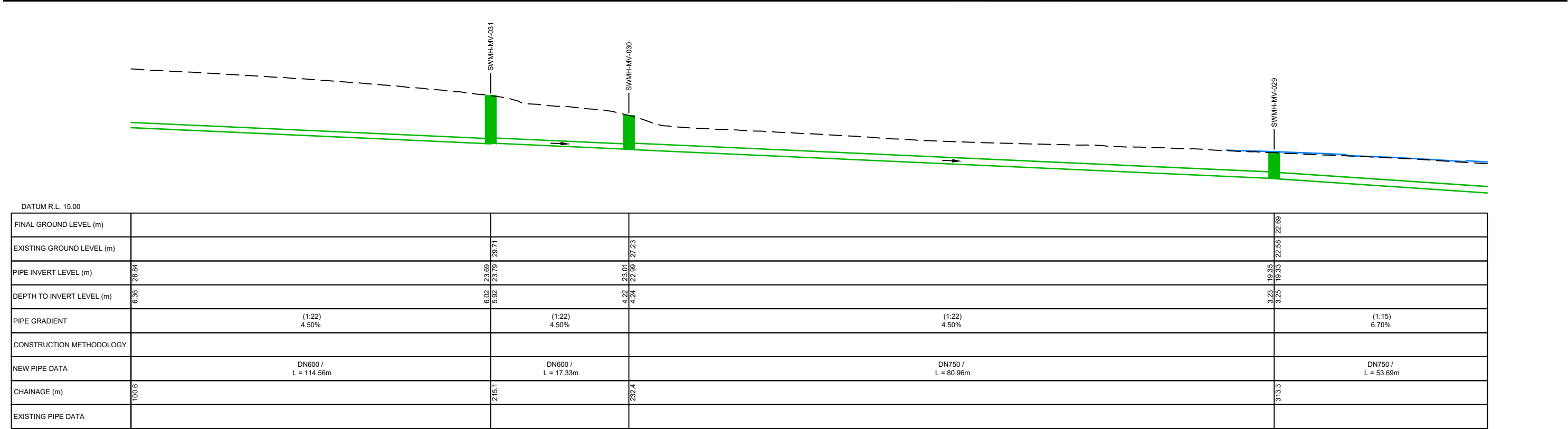
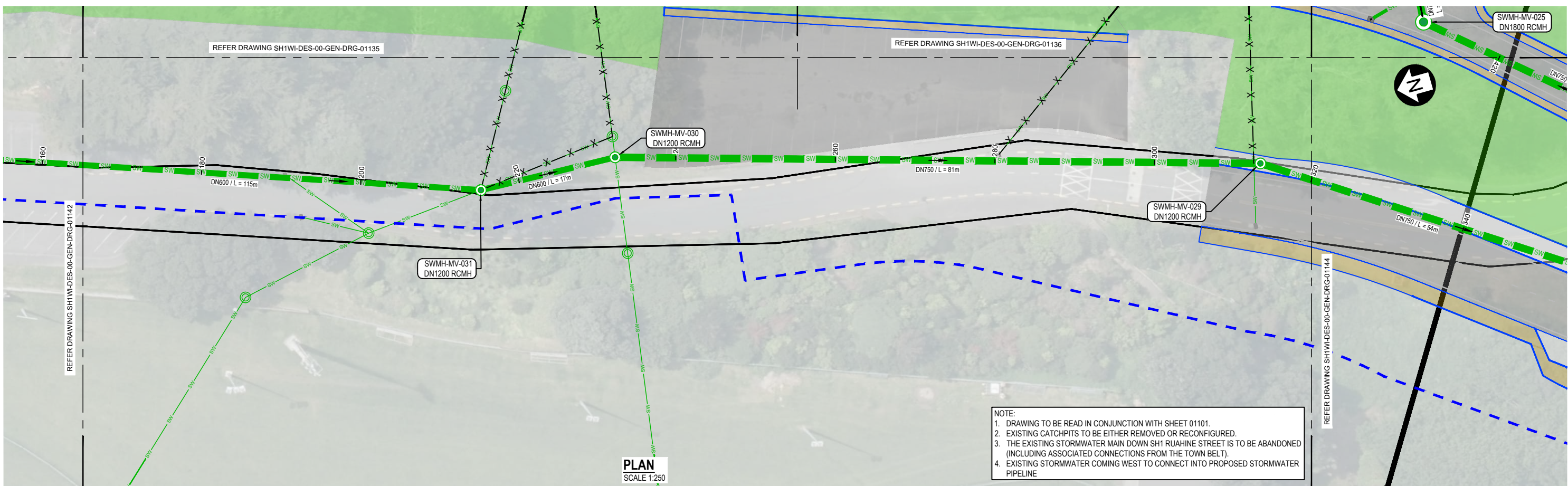
DRAWN S.KRISHNA	DESIGNED H.STROUD / J.DHANJEE	APPROVED E.SUTTON
DRAWING VERIFIED Q.O'SHAUGHNESSY	DESIGN VERIFIED F.SMITH	APPROVED DATE 2026-07-09

CONSSENT DESIGN

PROJECT
NZ TRANSPORT AGENCY
WELLINGTON
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS

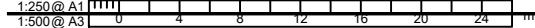
TITLE
STORMWATER NETWORK
HATAITAI AREA

WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01142	REVISION A
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LONGITUDINAL PROFILE 170.0 m TO 340.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1

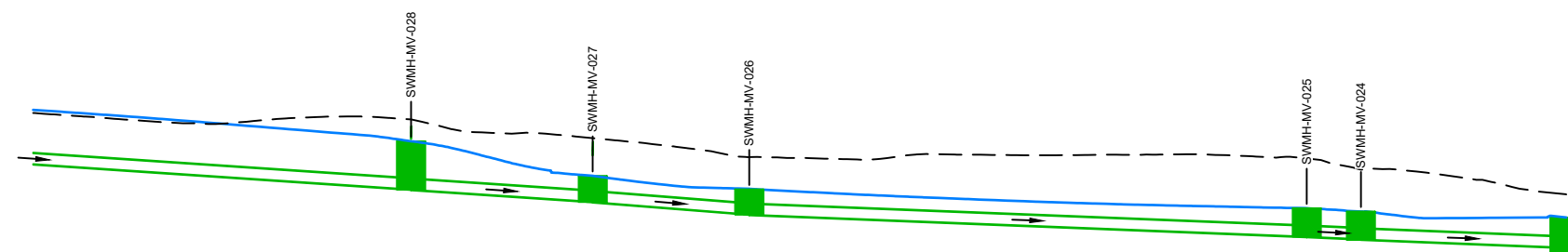
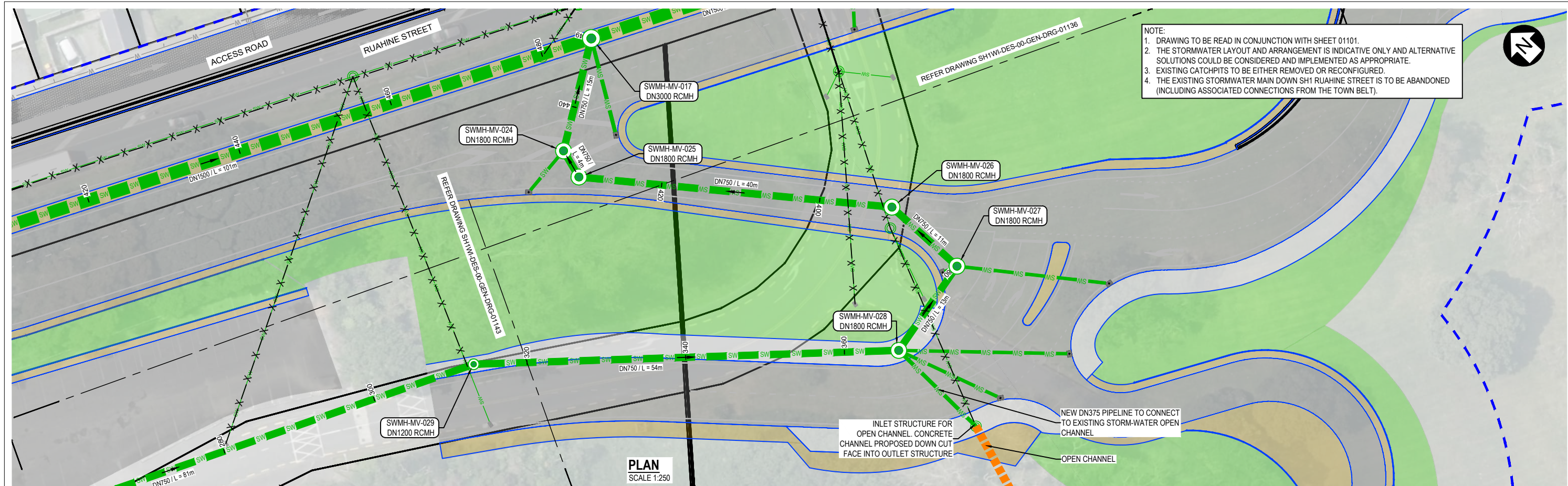


REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



SCALES			ORIGINAL SIZE
1:250 (A1) 1:500 (A3)			A1
DRAWN	DESIGNED	APPROVED	
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON	
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE	
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09	
CONSENT DESIGN			

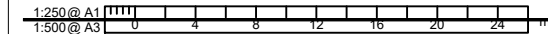
PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01143	A



DATUM R.L. 8.00									
FINAL GROUND LEVEL (m)			19.16						
EXISTING GROUND LEVEL (m)			20.71		19.38		18.03		16.39
PIPE INVERT LEVEL (m)	19.33	15.74	15.72	14.86	13.96	13.94	12.38	12.20	11.60
DEPTH TO INVERT LEVEL (m)	3.25	3.42	3.44	1.84	1.82	1.84	2.02	1.97	2.14
PIPE GRADIENT		(1:15) 6.70%	(1:15) 6.70%	(1:13) 7.90%	(1:25) 3.96%	(1:22) 4.53%	(1:25) 4.00%		
CONSTRUCTION METHODOLOGY									
NEW PIPE DATA		DN750 / L = 53.69m	DN750 / L = 12.93m	DN750 / L = 11.10m	DN750 / L = 39.64m	DN750 / L = 3.83m	DN750 / L = 14.59m		
CHAINAGE (m)	313.3	366.8	379.7	390.9	430.5	434.3			
EXISTING PIPE DATA									

LONGITUDINAL PROFILE 340.0 m TO 451.0 m

HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:250 @ A1



REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09

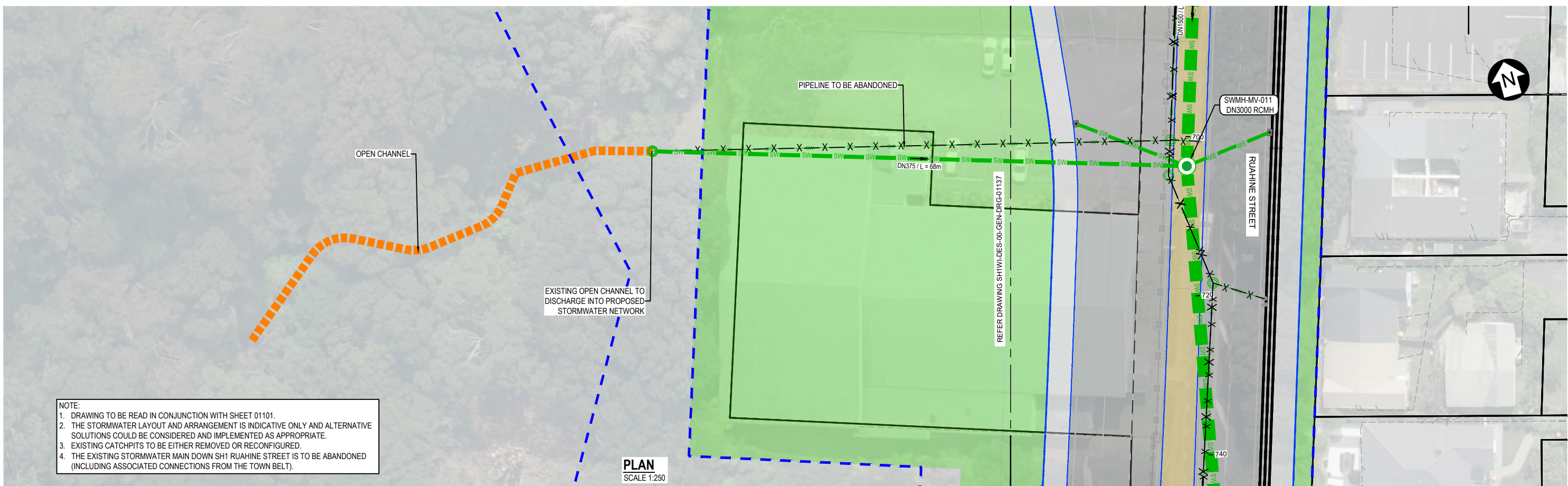


DRAINAGE

SCALES			ORIGINAL SIZE	
1:250 @ A1	1:500 @ A3		A1	
DRAWN	DESIGNED	APPROVED		
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON		
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE		
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09		

CONSENT DESIGN

PROJECT NZ TRANSPORT AGENCY WELLINGTON STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE STORMWATER NETWORK HATAITAI AREA			
WSP PROJECT NO. 5-C4800.01	PROJ-ORIG-VOL-LOC-TYPE SH1WI-DES-00-DNG-DRG	SHEET NO. 01144	REVISION A



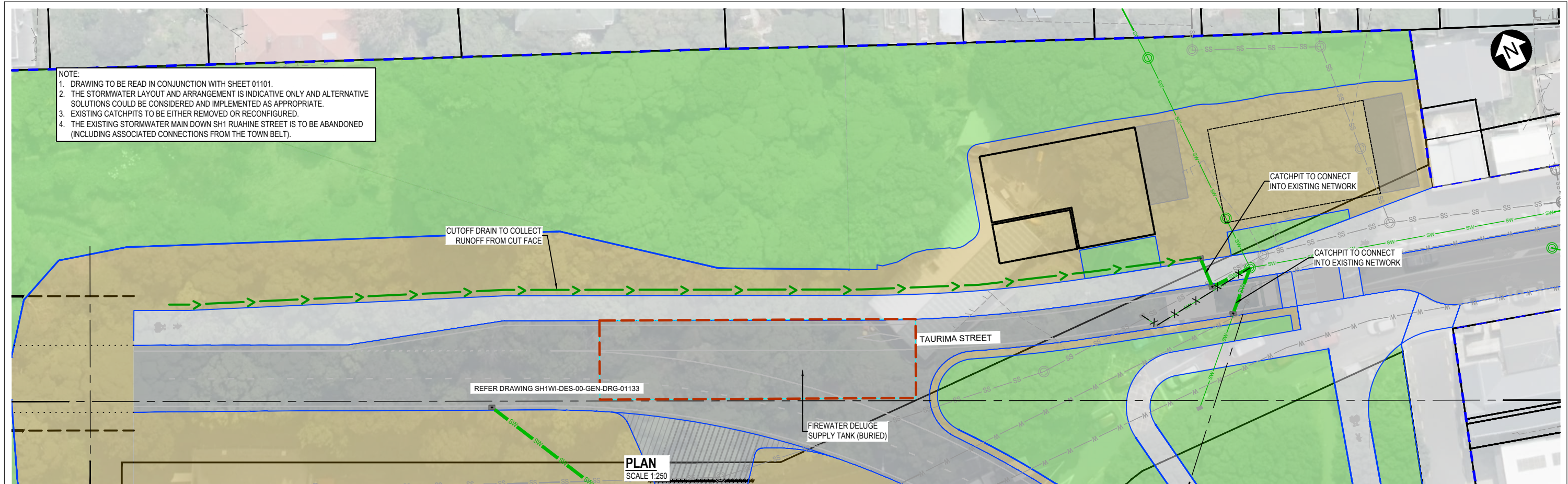
1:250 @ A1
1:500 @ A3

REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



SCALES		ORIGINAL SIZE
1:250 (A1) 1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09
CONSSENT DESIGN		

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01145	A



1:250 @ A1
1:500 @ A3

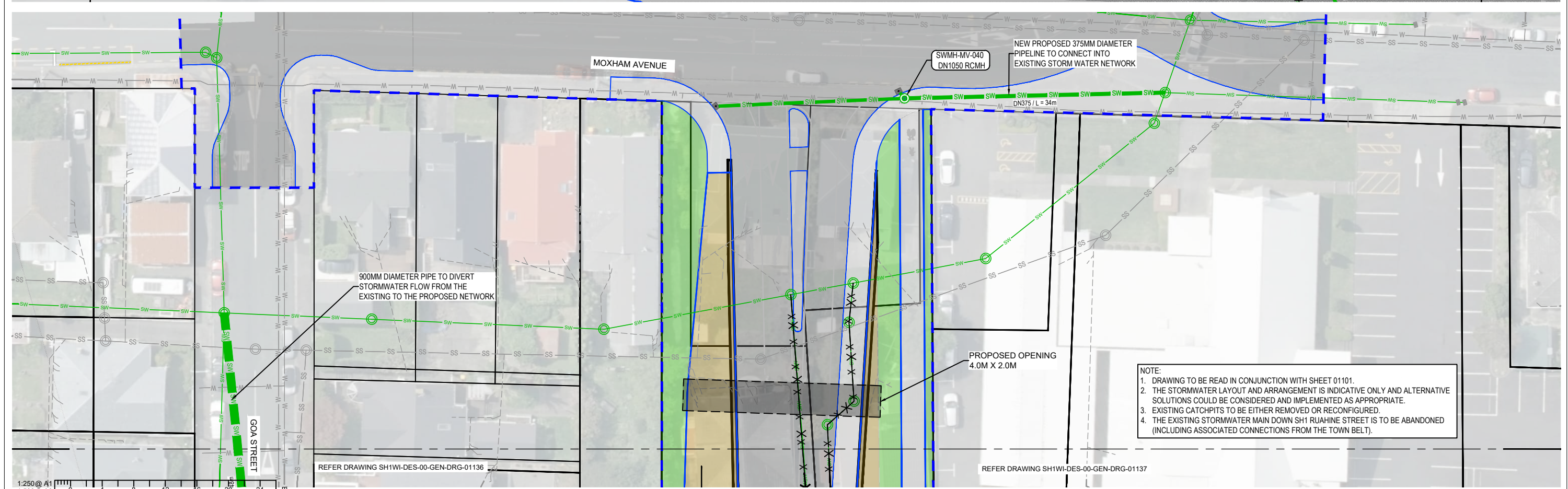
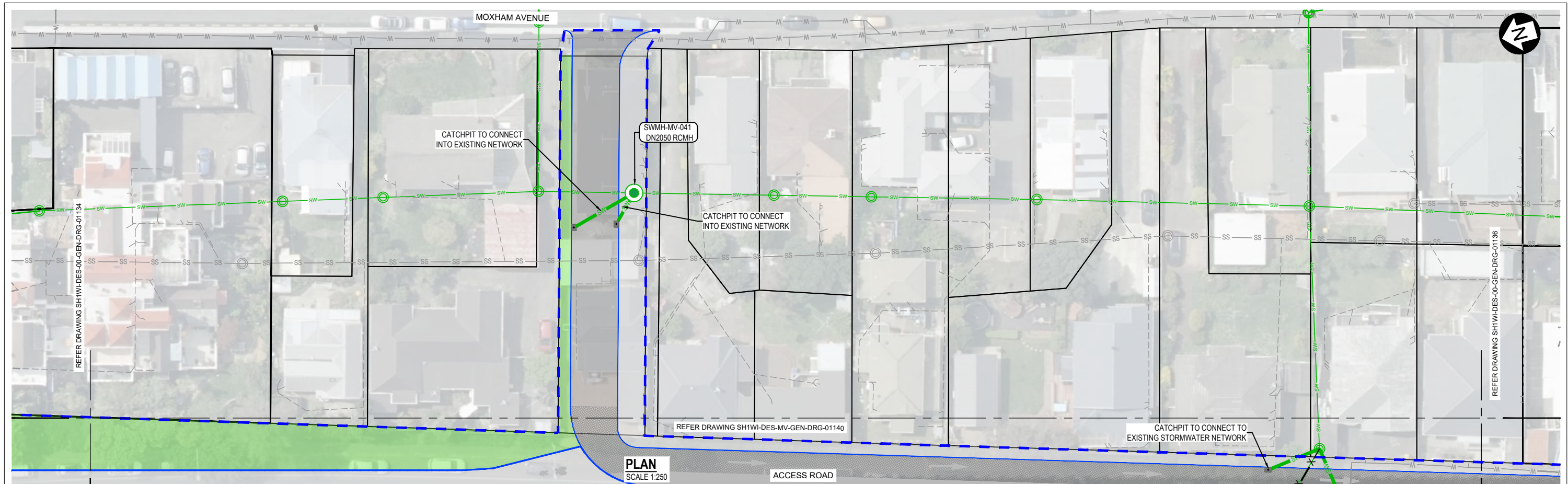
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REVISION	AMENDMENT	APPROVED	DATE
A	CONSENT DESIGN	ES	2026-07-09



SCALES		ORIGINAL SIZE
1:250 (A1) 1:500 (A3)		A1
DRAWN	DESIGNED	APPROVED
S.KRISHNA	H.STROUD / J.DHANJEE	E.SUTTON
DRAWING VERIFIED	DESIGN VERIFIED	APPROVED DATE
Q.O'SHAUGHNESSY	F.SMITH	2026-07-09
CONSENT DESIGN		

PROJECT			
NZ TRANSPORT AGENCY			
WELLINGTON			
STATE HIGHWAY 1 WELLINGTON IMPROVEMENTS			
TITLE			
STORMWATER NETWORK			
HATAITAI AREA			
WSP PROJECT NO.	PROJ-ORIG-VOL-LOC-TYPE	SHEET NO.	REVISION
5-C4800.01	SH1WI-DES-00-DNG-DRG	01146	A



1:500@ A3				0				4				8				12				16				20				24				...			
REVISION		AMENDMENT		APPROVED		DATE																													
A		CONSENT DESIGN		ES		2026-07-09																													