

0.2% AEP PIPE SPILLWAY SYSTEM OUTLET DISSIPATOR AND CONNECTION TO EXISTING WATERWAY. ALL ROCKWORK $D_{50} \geq 300\text{mm}$. LAYER THICKNESS $2'D_{50}$

300DIA GATED BYPASS PIPE FOR MAINTENANCE DRAWDOWN. BOTH OUTLETS IN PIT 14 TO BE PROVIDED WITH SLUICE VALVE FOR ISOLATION. SLUICE VALVE OVER 300DIA OUTLET TO BE LEFT IN CLOSED POSITION

INSET

MZ AND PIPE SPILLWAY OUTLET SYSTEM, WITH INTEGRATED MW SIDEWINDER PENSTOCK, MW STANDARD LOT AND SIDEWINDER AT CREST 48m ON INTERNAL WALL (CREST 48.9m). 300mm GATE VALVE AT IL46.5m

ALL ROCKWORK $D_{50} \geq 450\text{mm}$. LAYER THICKNESS $2'D_{50}$. UNDERLAIN BY HEAVY GEOTEXTILE ON TOP OF SAND LAYER-ALL TO BE CONFIRMED AFTER GEOTECHNICAL STUDIES.

SUBSURFACE SEEPAGE CONTROL SYSTEM AND IMPERVIOUS CLAY CORE TO BE PROVIDED FOR EMBANKMENT ALL TO FUTURE DETAIL.

0.2% AEP PIF SYSTEM OUT AND CONNE WATERWAY $D_{50} \geq 300\text{mm}$ THICKNESS

WLRB1 AREAS & VOLUMES	
SED POND WATER SURFACE AREA (AT NWL)	= 1,908m ²
WETLAND WATER SURFACE AREA (AT NWL)	= 9,684m ²
SEDIMENT POND PERMANENT WATER VOLUME (BELOW NWL)	= 2,315m ³
WETLAND PERMANENT WATER VOLUME (TO NWL)	= 3,422m ³
SEDIMENT STORAGE VOLUME (TO RL47.60m)	= 1,530m ³
DRYING ZONE AREA	= 2,838m ²
Q100 STORAGE VOLUME (TO RL49.26m)	= 30,064m ³

WETLAND ZONES	
SHALLOW MARSH = 3,720m ² (38%) (0.000m - 0.150m DEPTH)	
DEEP MARSH = 4,118m ² (42%) (0.150m - 0.350m DEPTH)	
SUBMERGED MARSH = 361m ² (4%) (0.350m - 0.700m DEPTH)	
OPEN WATER = 1,485m ² (15%) (0.700m - 1.500m DEPTH)	

LEGEND	
	Stormwater Drain and Pit
	Future Stormwater Drain and Pit
	Existing Stormwater Drain and Pit
	Limit of Works
	Safety Bench (1 in 8 max, minimum 2.8m width)
	Concrete Path
	3m Wide Runout Area for Mowing
	Sediment Basin Base
	Access Track / Ramp
	Sediment Drying Zone
	Trees to be retained
	Normal Water Level (NTWL 48)
	Extended Detention Depth (EDD 48.35)
	Overflow Level (RL13.75)
	1% AEP Level (RL49.26)
	Batter

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
D	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
C	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE	
B	16/04/24	CLIENT COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
A	03/04/24	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	



PROJECT
CREAMERY ROAD PSP ALTERNATIVE SWMS

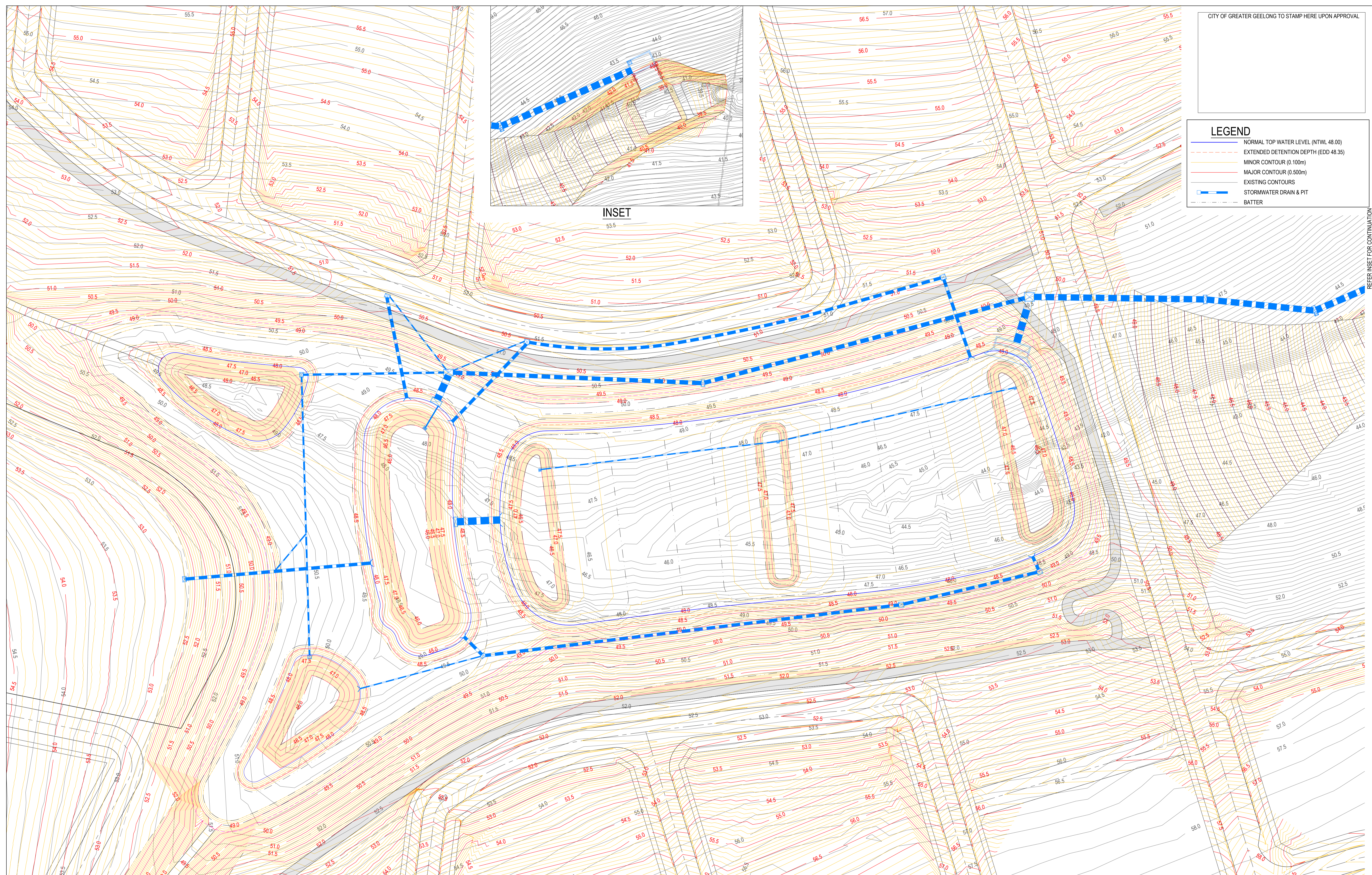
DRAWING TITLE
FUNCTIONAL LAYOUT - WLRB-01 LAYOUT PLAN

STATUS
PRELIMINARY NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F100	F


CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



LEGEND

- NORMAL TOP WATER LEVEL (NTWL 48.00)
- - - EXTENDED DETENTION DEPTH (EDD 48.35)
- MINOR CONTOUR (0.100m)
- MAJOR CONTOUR (0.500m)
- EXISTING CONTOURS
- - - STORMWATER DRAIN & PIT
- BATTER

REFER INSET FOR CONTINUATION

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	 Communities Designed for Living
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
D	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
C	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE	
B	16/04/24	CLIENT COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
A	03/04/24	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	





Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

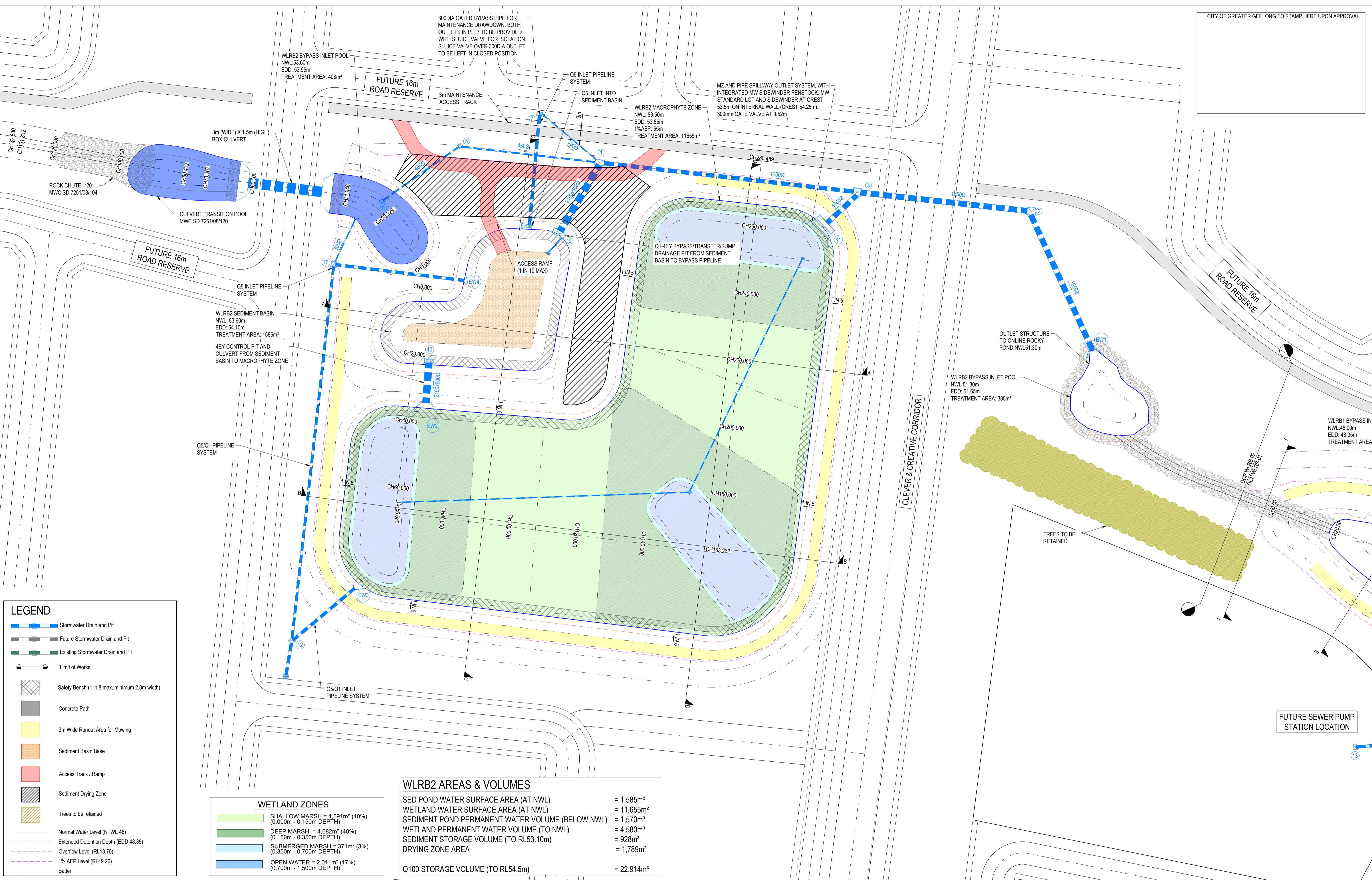
DRAWING TITLE
**FUNCTIONAL LAYOUT -
WLRB-01 CONTOUR PLAN**

STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F101
	REVISION F



LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL 13.75)
- 1% AEP Level (RL 49.26)
- Batter

WETLAND ZONES

SHALLOW MARSH = 4,591m ² (40%) (0.000m - 0.150m DEPTH)
DEEP MARSH = 4,682m ² (40%) (0.150m - 0.350m DEPTH)
SUBMERGED MARSH = 371m ² (3%) (0.350m - 0.700m DEPTH)
OPEN WATER = 2,011m ² (17%) (0.700m - 1.500m DEPTH)

WLRB2 AREAS & VOLUMES

SED POND WATER SURFACE AREA (AT NWL)	= 1,585m ²
WETLAND WATER SURFACE AREA (AT NWL)	= 11,655m ²
SEDIMENT POND PERMANENT WATER VOLUME (BELOW NWL)	= 1,570m ³
WETLAND PERMANENT WATER VOLUME (TO NWL)	= 4,580m ³
SEDIMENT STORAGE VOLUME (TO RL53.10m)	= 928m ³
DRYING ZONE AREA	= 1,789m ²
Q100 STORAGE VOLUME (TO RL54.5m)	= 22,914m ³

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	 Communities Designed for Living
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
D	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
C	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE	
B	16/04/24	CLIENT COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
A	03/04/24	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	

creo CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT: **CREAMERY ROAD PSP ALTERNATIVE SWMS**

DRAWING TITLE: **FUNCTIONAL LAYOUT - WLRB-02 LAYOUT PLAN**

STATUS: **PRELIMINARY NOT FOR CONSTRUCTION**

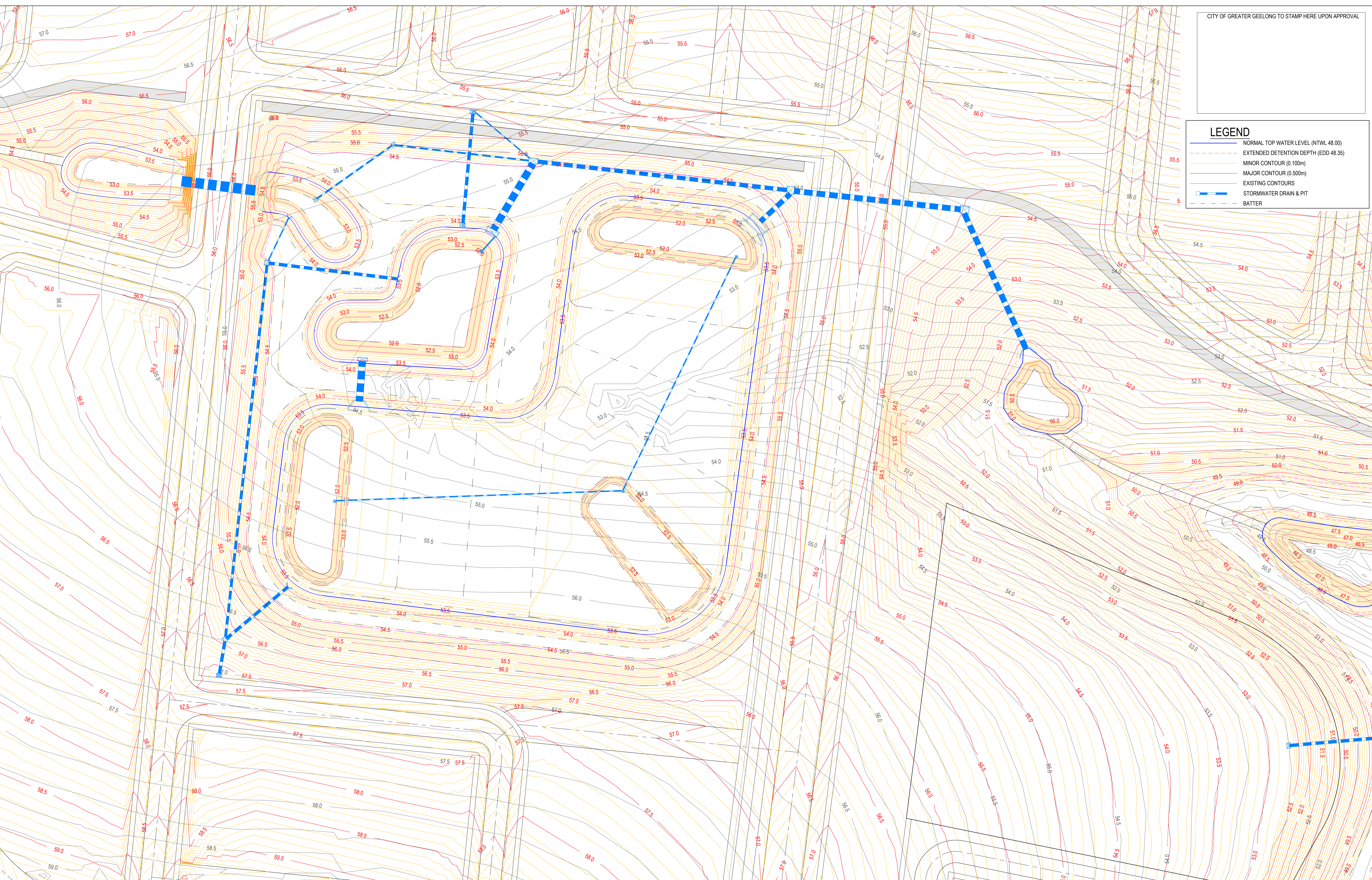
SCALE @ A1: 1:500


DESIGNED: K.MCKELVIE	PROJECT ENGINEER: M.TROUNCE
DRAWN: K.MCKELVIE	PROJECT MANAGER: M.TROUNCE
PROJECT No: 200426	DRAWING No: F200
REVISION: F	

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND

- NORMAL TOP WATER LEVEL (NTWL 48.00)
- EXTENDED DETENTION DEPTH (EDD 48.35)
- MINOR CONTOUR (0.100m)
- MAJOR CONTOUR (0.500m)
- EXISTING CONTOURS
- STORMWATER DRAIN & PIT
- BATTER



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	 Communities Designed for Living
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
D	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
C	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE	
B	16/04/24	CLIENT COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
A	03/04/24	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	




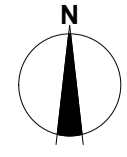
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE
**FUNCTIONAL LAYOUT -
WLRB-02 CONTOUR PLAN**

STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**

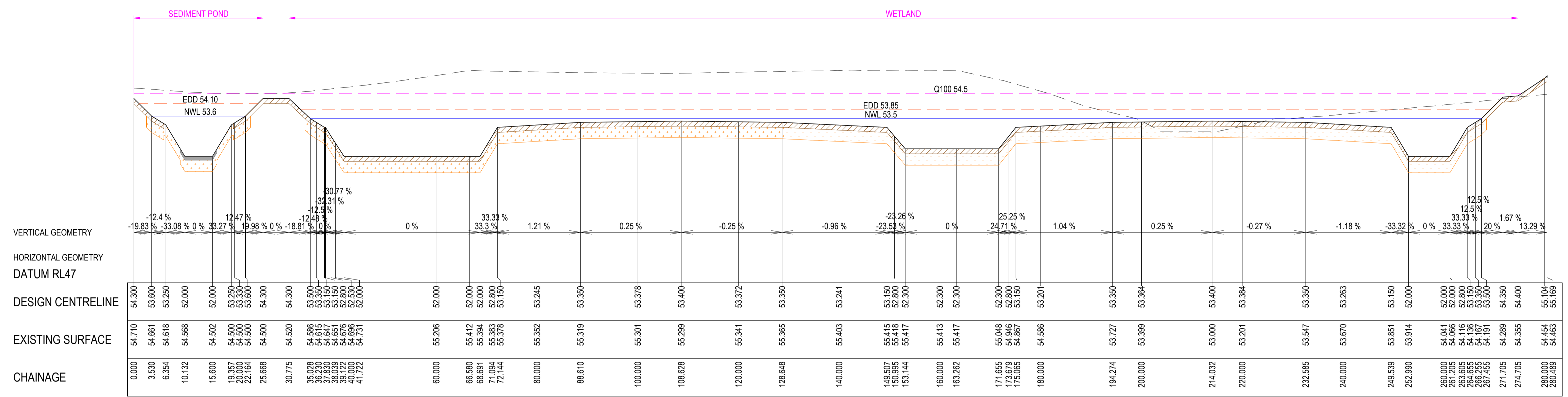
SCALE @ A1: 1:500

DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F201
	REVISION F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)



WLRB-02 LONGITUDINAL SECTION

- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 725/112/012.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
C	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	16/04/24	CLIENT COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	03/04/24	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
LONGITUDINAL SECTIONS - WLRB-02**

STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:100 (V)

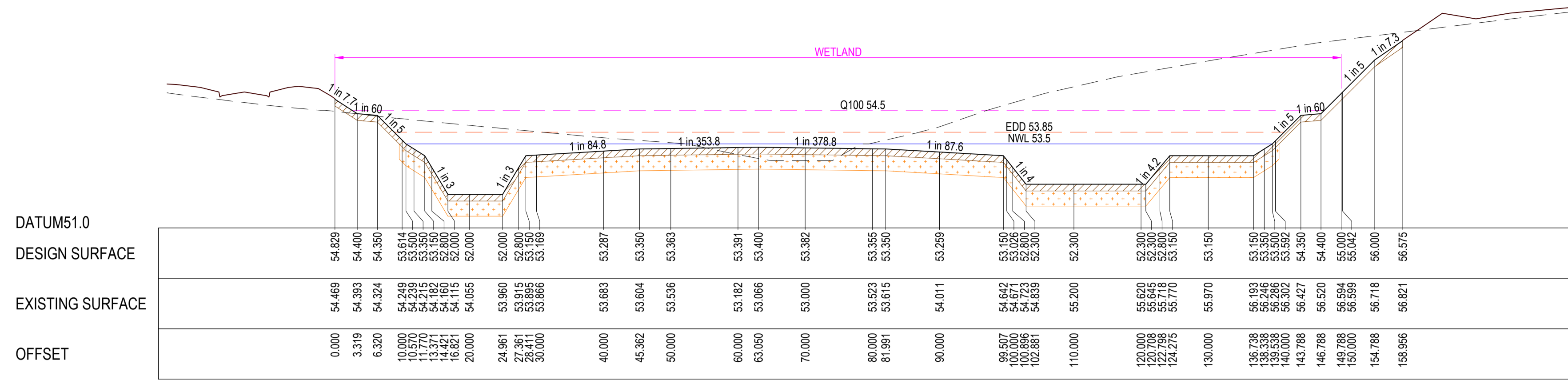
DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F202	F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

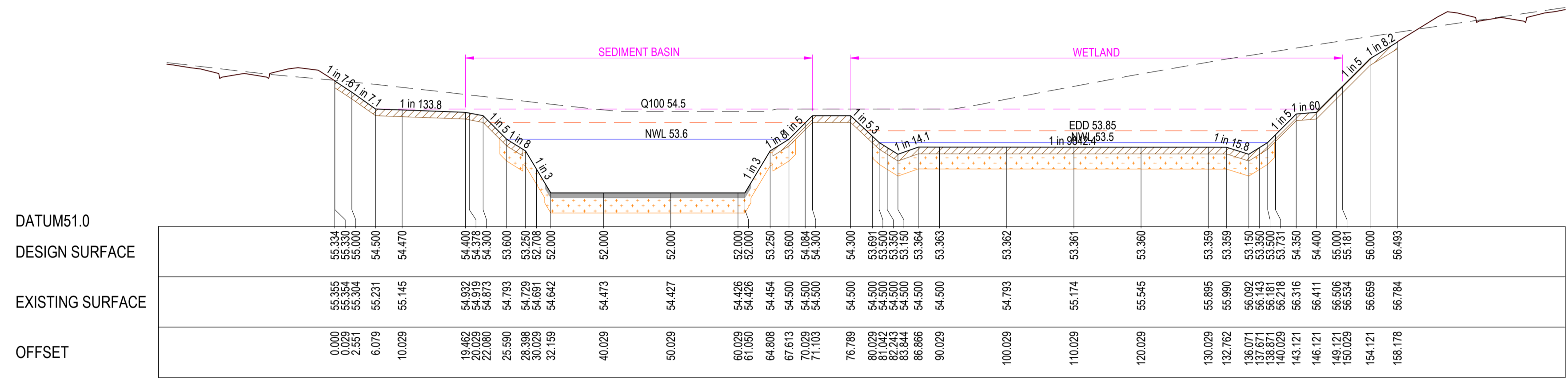
LEGEND

- EXISTING SURFACE
- - - DESIGN LINE
- NTWL (RL53.5)
- EDD (RL53.85)
- 1% AEP (RL55)

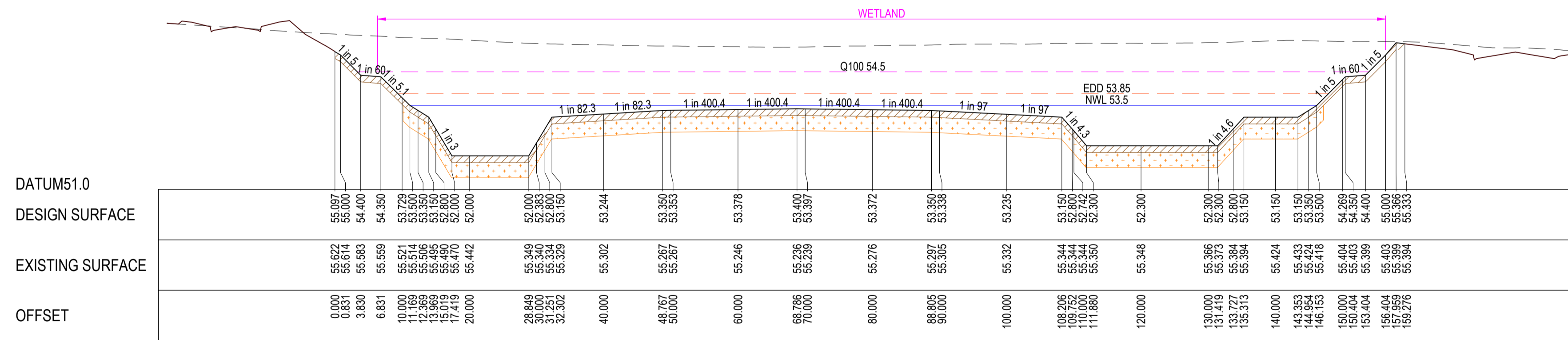
- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
- 150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 725/12/012.



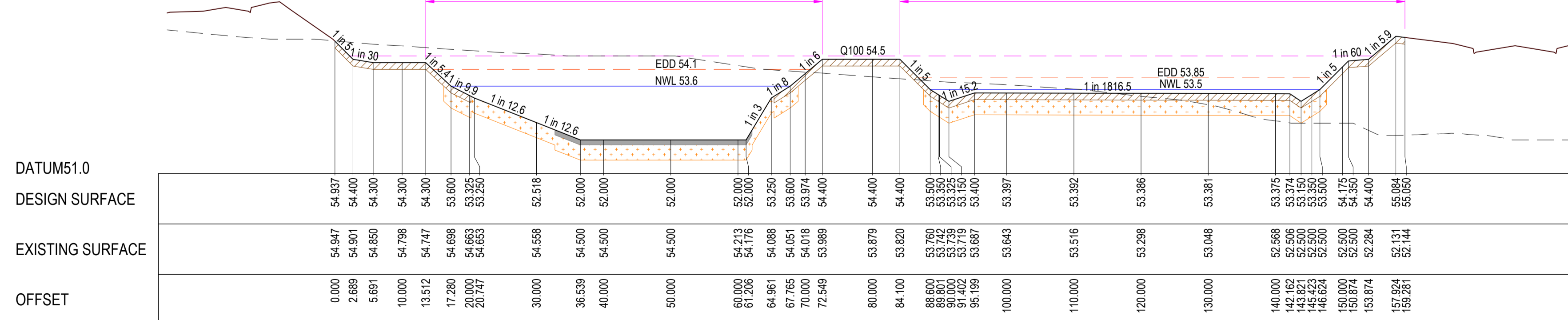
SECTION D-D



SECTION C-C



SECTION B-B



SECTION A-A

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
D	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
C	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE
B	16/04/24	CLIENT COMMENTS	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	03/04/24	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE

FUNCTIONAL LAYOUT -
CROSS SECTIONS
WLRB-02

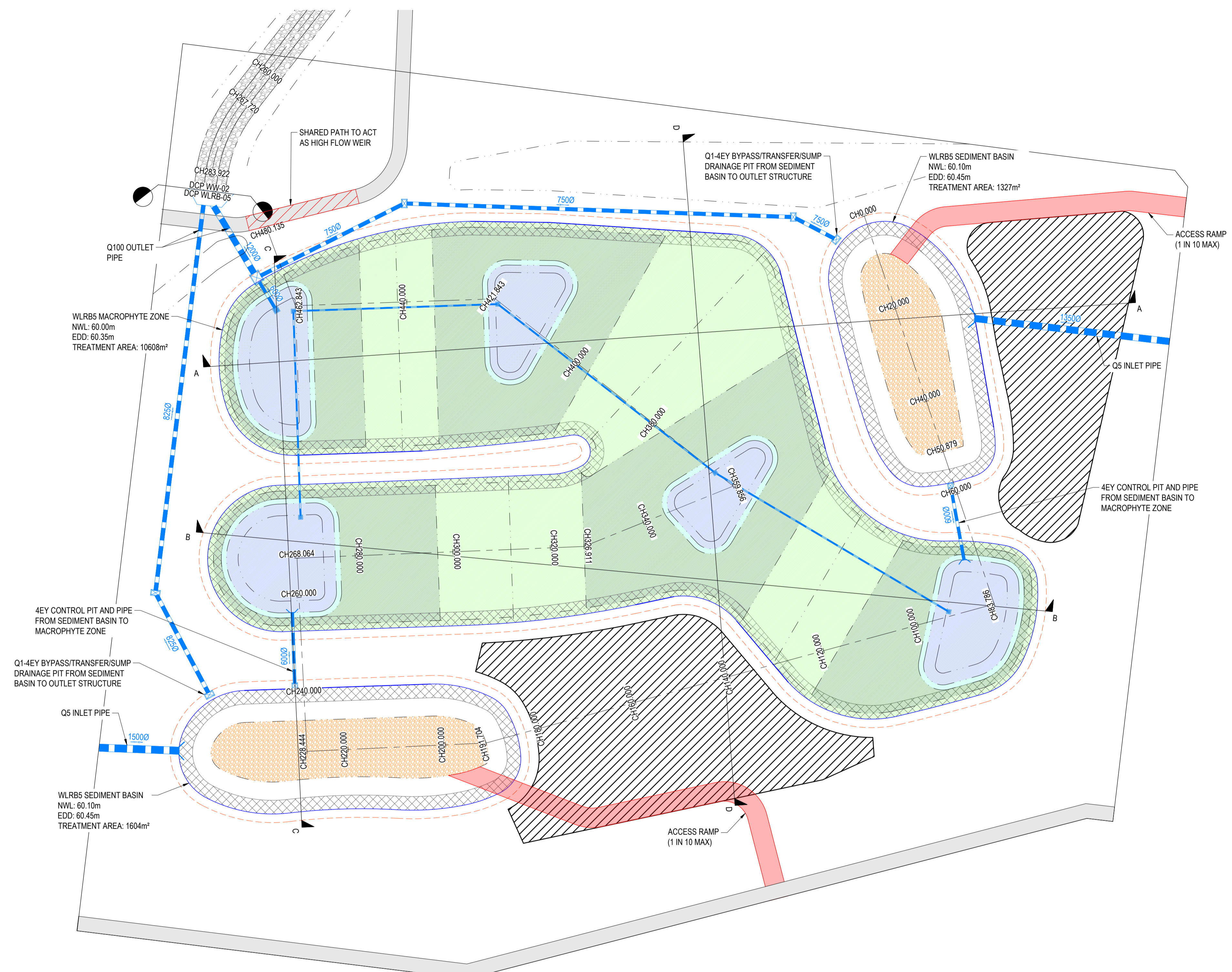
STATUS

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:100 (V)

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F203	F

E:\25\MEGA\TRIP\25\MEGA\1\25\ENERGYSERVICES\1460\B51\F5-200-1\F5-912-C1ED\F203\200426-F403-CROSS SECTIONS.DWG



WLRB5 AREAS & VOLUMES	
SED POND WATER SURFACE AREA (AT NWL)	= 2,931m ²
WETLAND WATER SURFACE AREA (AT NWL)	= 10,608m ²
SEDIMENT POND PERMANENT WATER VOLUME (BELOW NWL)	= 2,915m ³
WETLAND PERMANENT WATER VOLUME (TO NWL)	= 4,008m ³
SEDIMENT STORAGE VOLUME (TO RL59.60m)	= 1,728m ³
DRYING ZONE AREA	= 3,725m ²

WETLAND ZONES	
	SHALLOW MARSH = 4,317m ² (41%) (0.000m - 0.150m DEPTH)
	DEEP MARSH = 4,138m ² (39%) (0.150m - 0.350m DEPTH)
	SUBMERGED MARSH = 396m ² (3%) (0.350m - 0.700m DEPTH)
	OPEN WATER = 1,756m ² (17%) (0.700m - 1.500m DEPTH)

LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
C	21/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

villawood properties
Communities Designed for Living

creo CIVIL
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

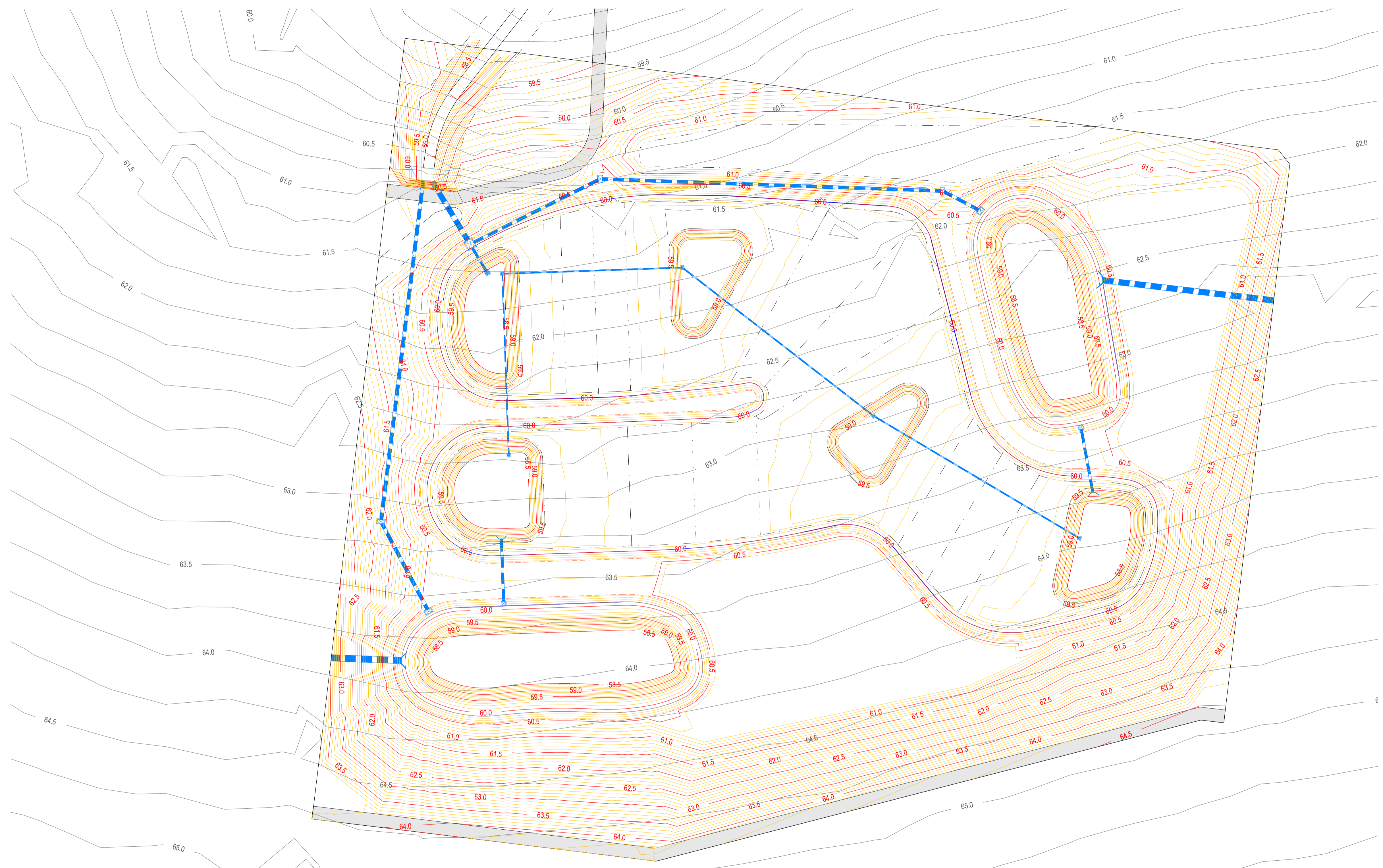
PROJECT
CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE
FUNCTIONAL LAYOUT -
WLRB-05 LAYOUT PLAN

STATUS
PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:500

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F400	F



LEGEND

- NORMAL TOP WATER LEVEL (NTWL 48.00)
- EXTENDED DETENTION DEPTH (EDD 48.35)
- MINOR CONTOUR (0.100m)
- MAJOR CONTOUR (0.500m)
- EXISTING CONTOURS
- STORMWATER DRAIN & PIT
- BATTER

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
C	21/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
WLRB-05 CONTOUR PLAN**

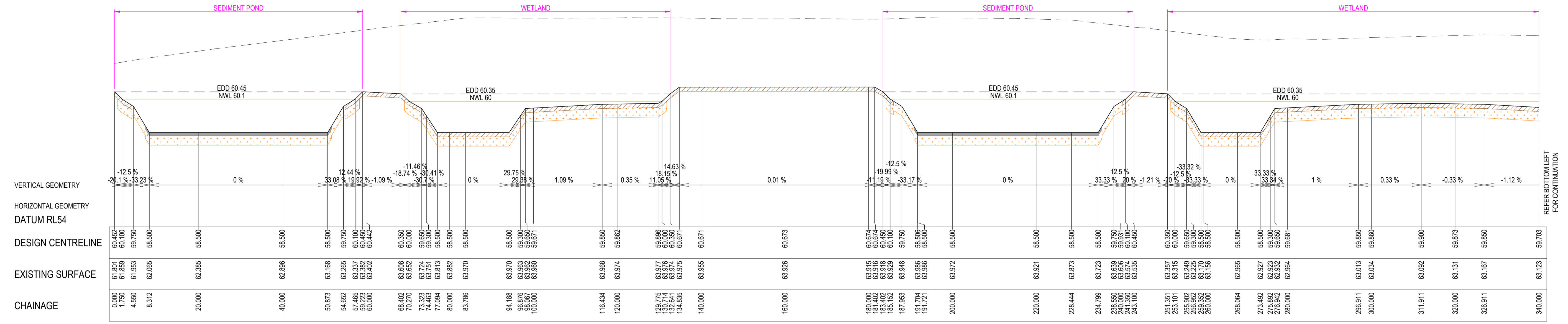
STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

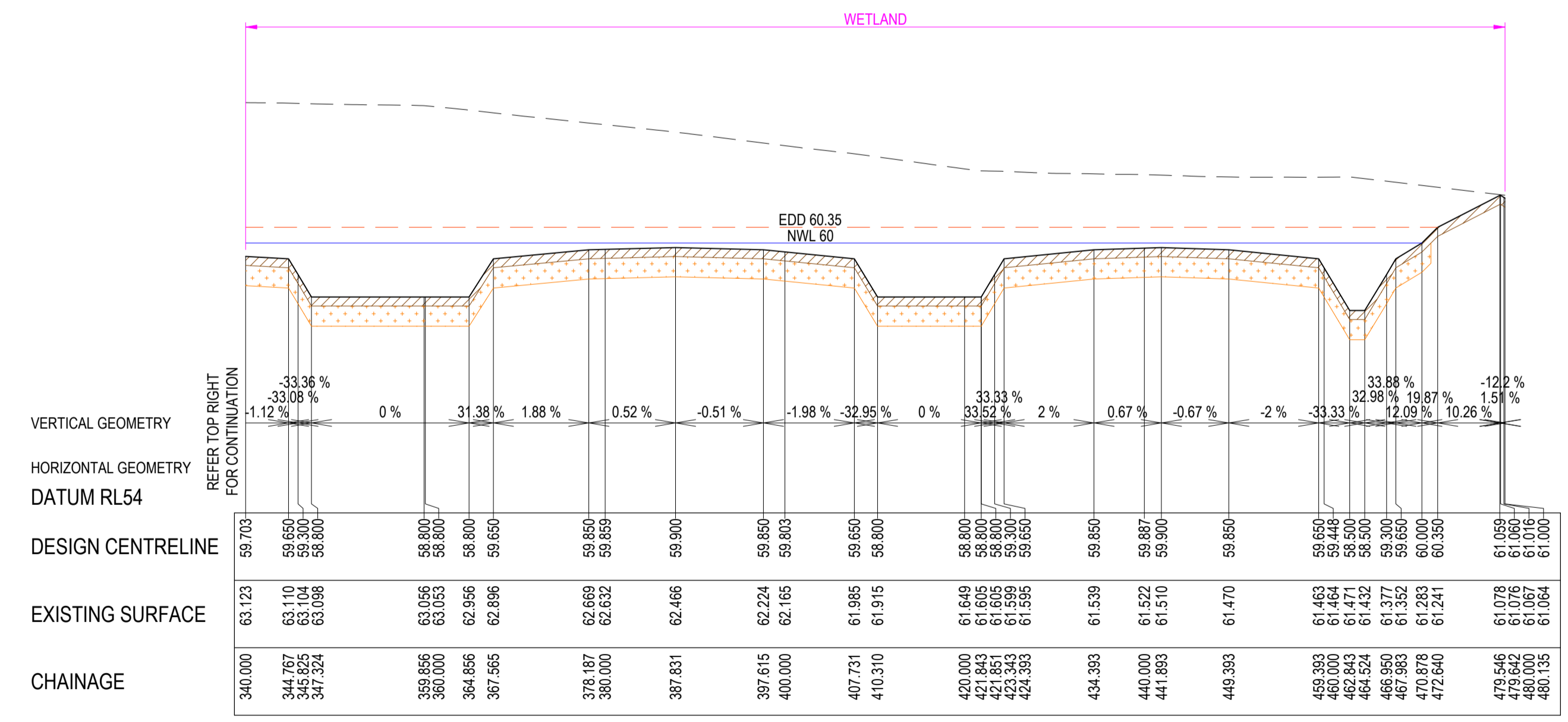
SCALE @ A1 : 1:500

DESIGNED	K.MCKELVIE	PROJECT ENGINEER	M.TROUNCE
DRAWN	K.MCKELVIE	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200426	DRAWING No.	F401
		REVISION	F

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)



WLRB-05 LONGITUDINAL SECTION

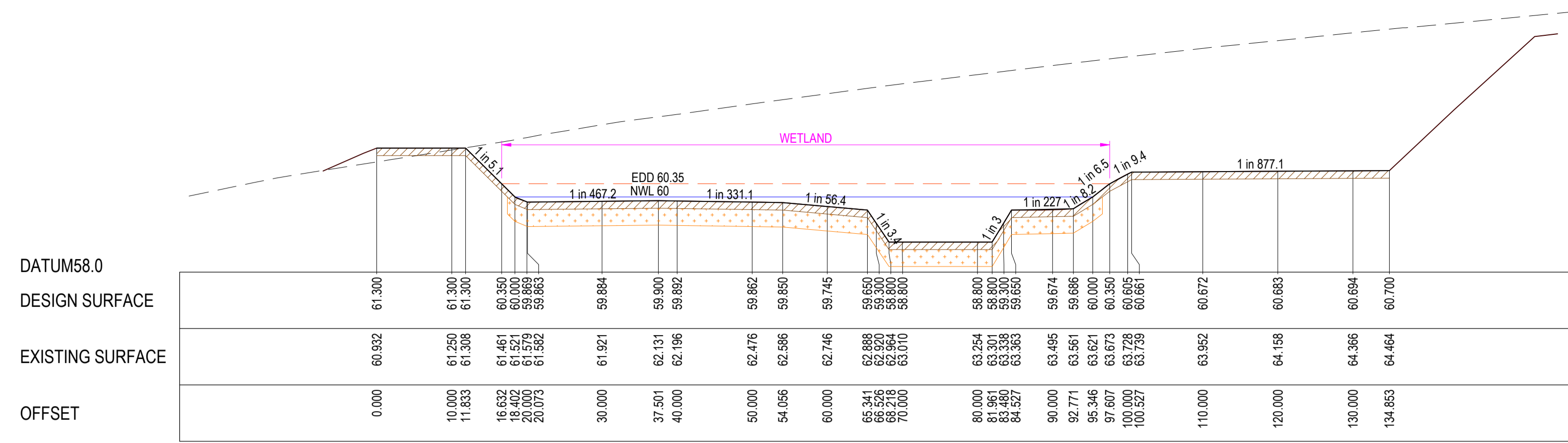


WLRB-05 LONGITUDINAL SECTION

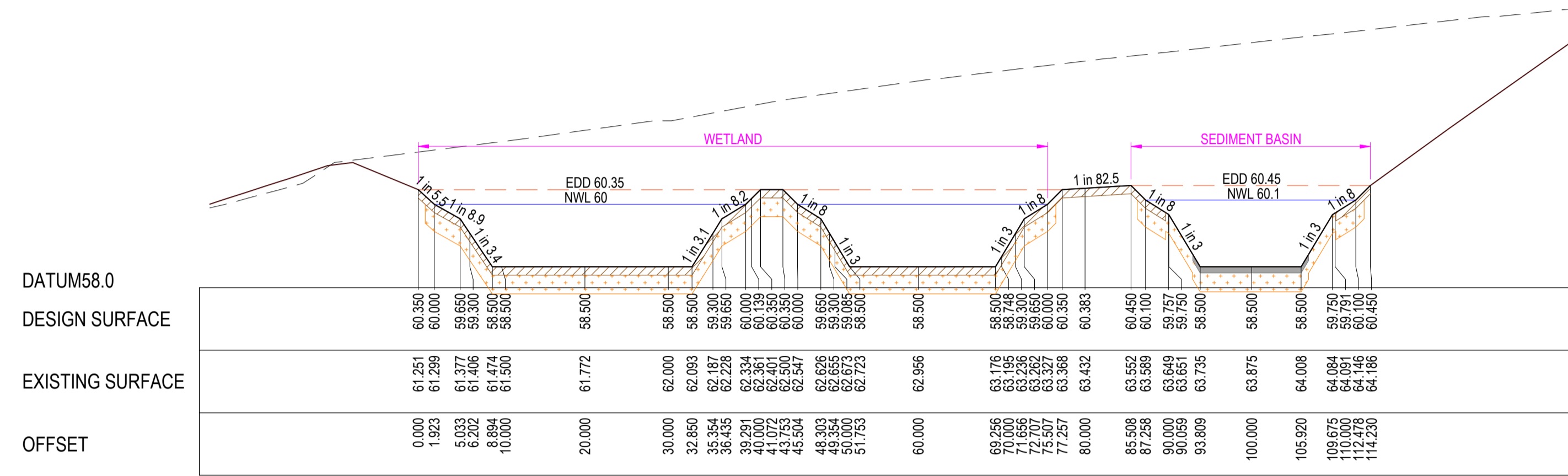
- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 725/112/012.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT	PROJECT	DRAWING TITLE	STATUS	DESIGNED	PROJECT ENGINEER					
F	23/09/25	ISSUED FOR INFORMATION				 Communities Designed for Living	 Suite 1, 2 Bloomsbury Street Newtown, VIC, Australia 3220	CREAMERY ROAD PSP ALTERNATIVE SWMS	FUNCTIONAL LAYOUT - LONGITUDINAL SECTIONS - WLRB-05	PRELIMINARY NOT FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE				
E	24/07/25	ISSUED FOR INFORMATION														
B	27/02/25	ISSUED FOR INFORMATION														
A	06/12/24	ISSUED FOR INFORMATION														
SCALE @ A1: 1:500 (H) 1:100 (V)										PROJECT No. 200426						
										DRAWING No. F402						
										REVISION F						

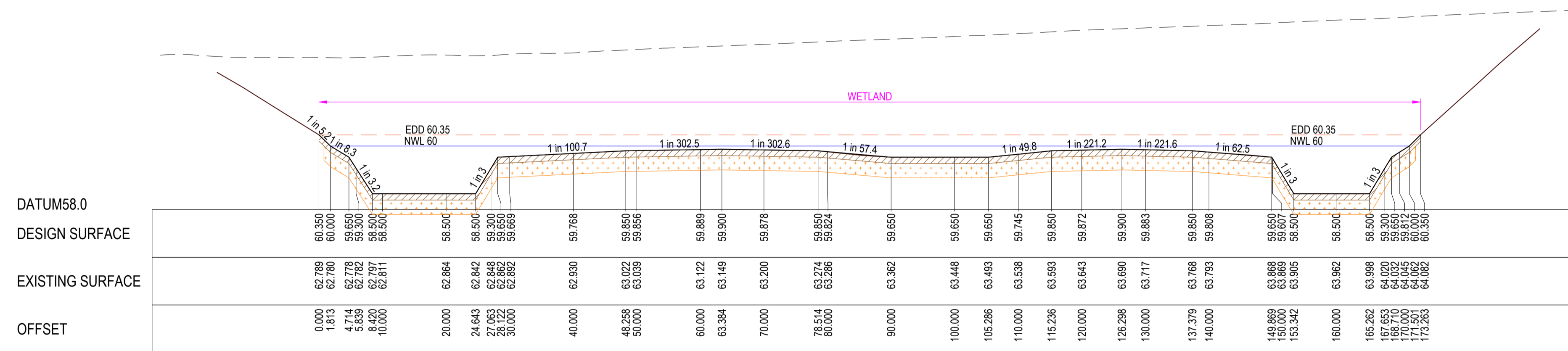
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



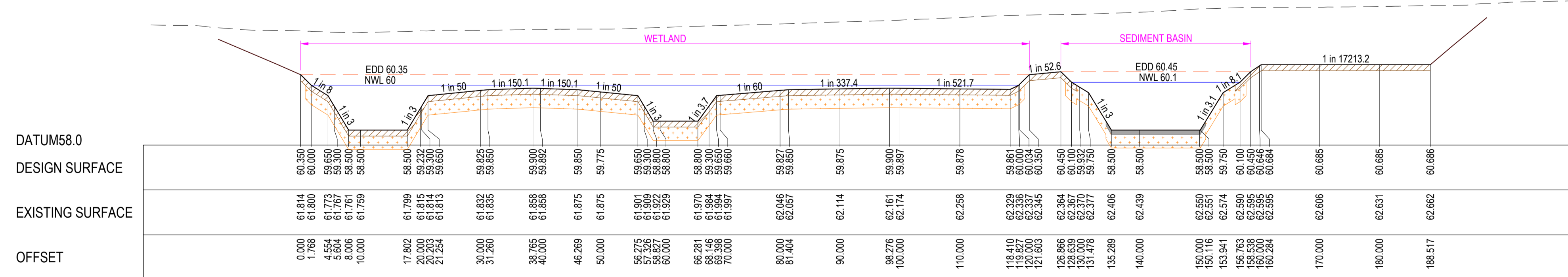
SECTION D-D



SECTION C-C



SECTION B-B



SECTION A-A

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- NTWL (RL53.5)
- EDD (RL53.85)
- 1% AEP (RL55)

- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND.
- MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
- 150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 7251/12/012.

E:\2025\MEGA\TEAM\2025\MEGA\1\2025\ENERGY\SERVER\SERVER\14560\8511\F3-200-1\F3-200-1\2025\ENERGY\SERVER\SERVER\14560\8511\F3-200-1\F3-200-1\CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE



PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

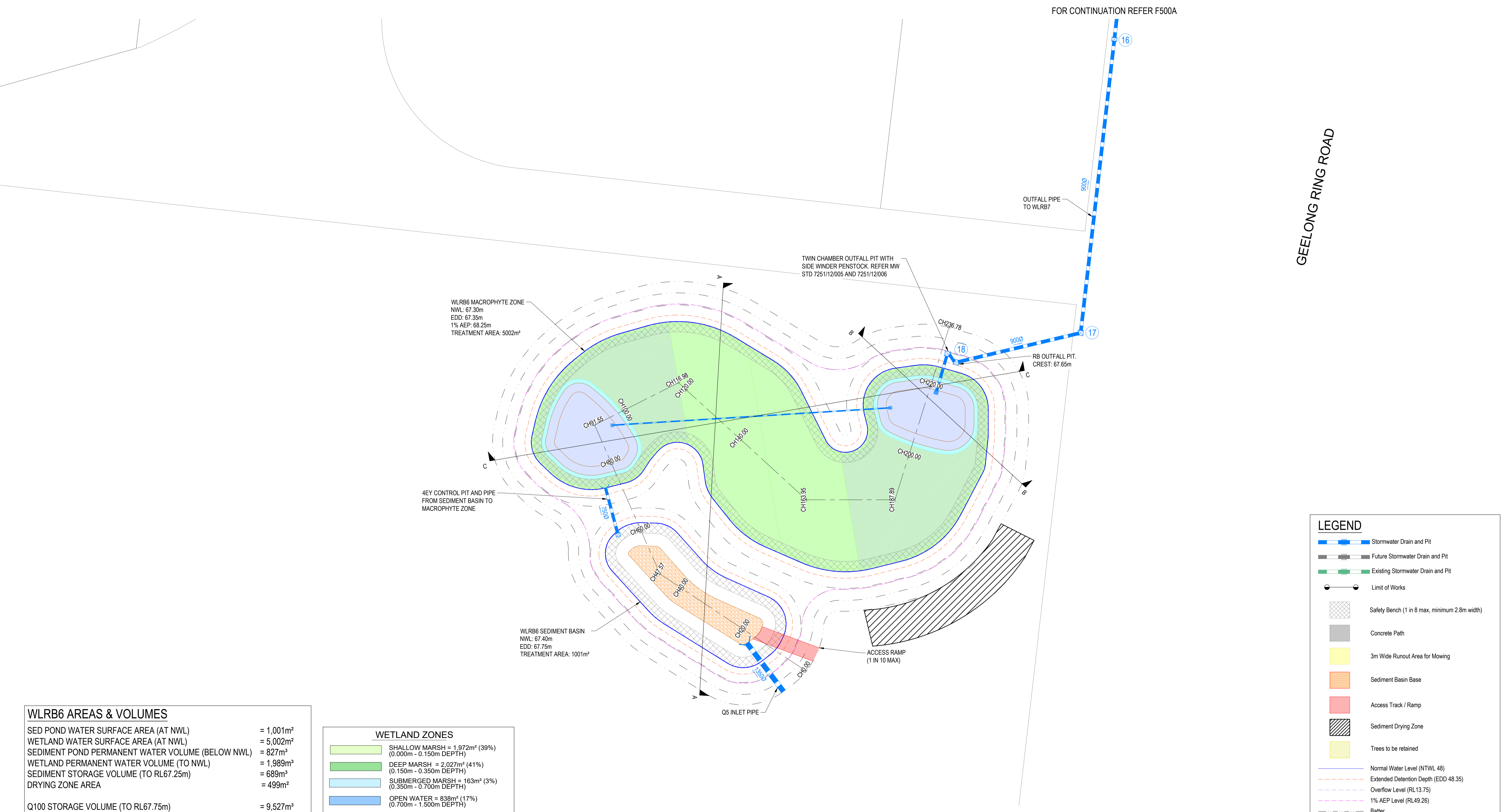
DRAWING TITLE
**FUNCTIONAL LAYOUT -
CROSS SECTIONS
WLRB-05**

STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:100 (V)

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F403	F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



WLRB6 AREAS & VOLUMES

SED POND WATER SURFACE AREA (AT NWL)	= 1,001m²
WETLAND WATER SURFACE AREA (AT NWL)	= 5,002m²
SEDIMENT POND PERMANENT WATER VOLUME (BELOW NWL)	= 827m³
WETLAND PERMANENT WATER VOLUME (TO NWL)	= 1,989m³
SEDIMENT STORAGE VOLUME (TO RL67.25m)	= 689m³
DRYING ZONE AREA	= 499m²
Q100 STORAGE VOLUME (TO RL67.75m)	= 9,527m³

WETLAND ZONES

SHALLOW MARSH = 1,972m² (39%) (0.000m - 0.150m DEPTH)
DEEP MARSH = 2,027m² (41%) (0.150m - 0.350m DEPTH)
SUBMERGED MARSH = 163m² (3%) (0.350m - 0.700m DEPTH)
OPEN WATER = 838m² (17%) (0.700m - 1.500m DEPTH)

LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			
E	24/07/25	ISSUED FOR INFORMATION			
A	27/02/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

CREO CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE

FUNCTIONAL LAYOUT -
WLRB-06 LAYOUT PLAN - 01

STATUS

PRELIMINARY
NOT FOR CONSTRUCTION

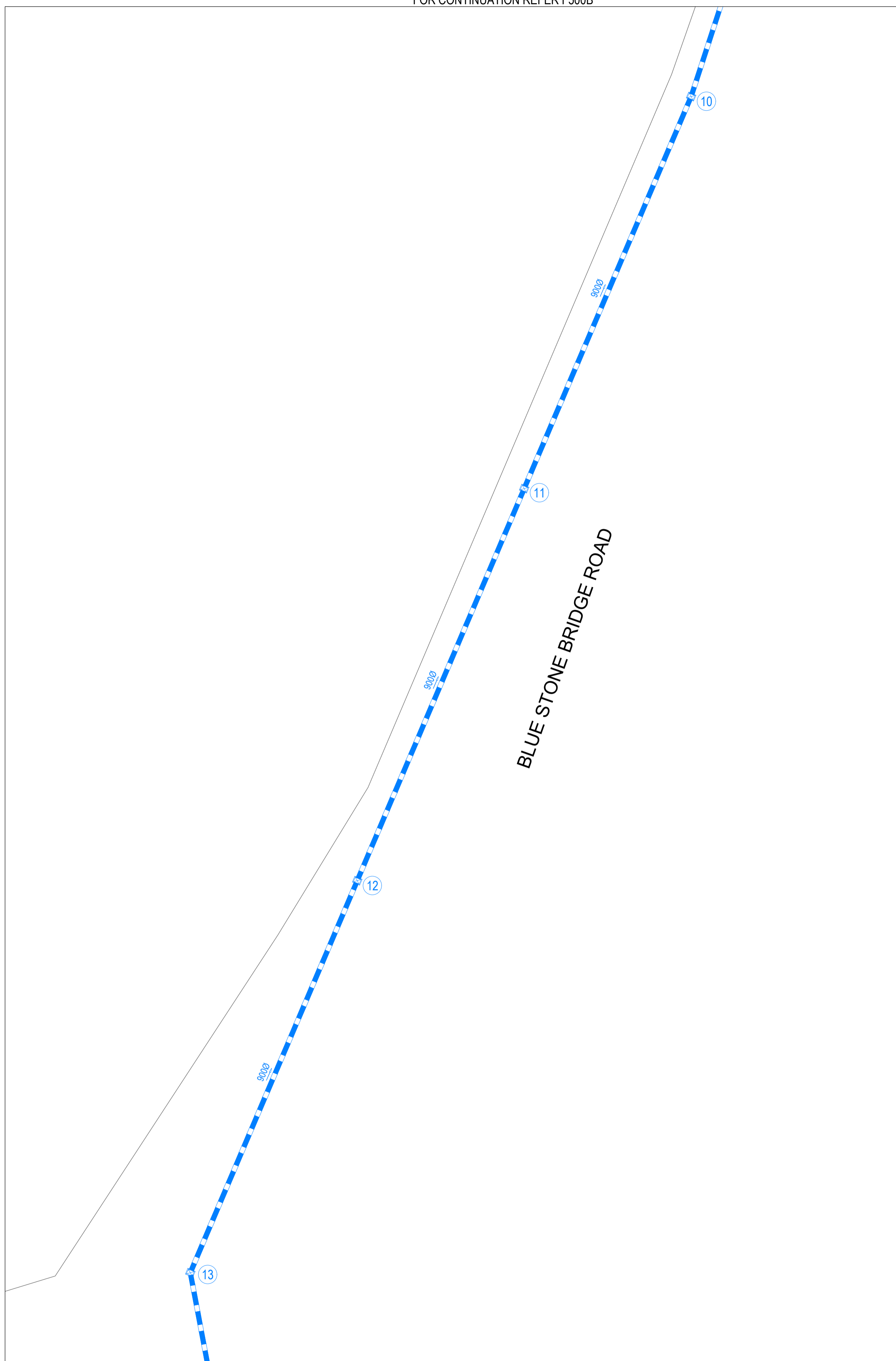
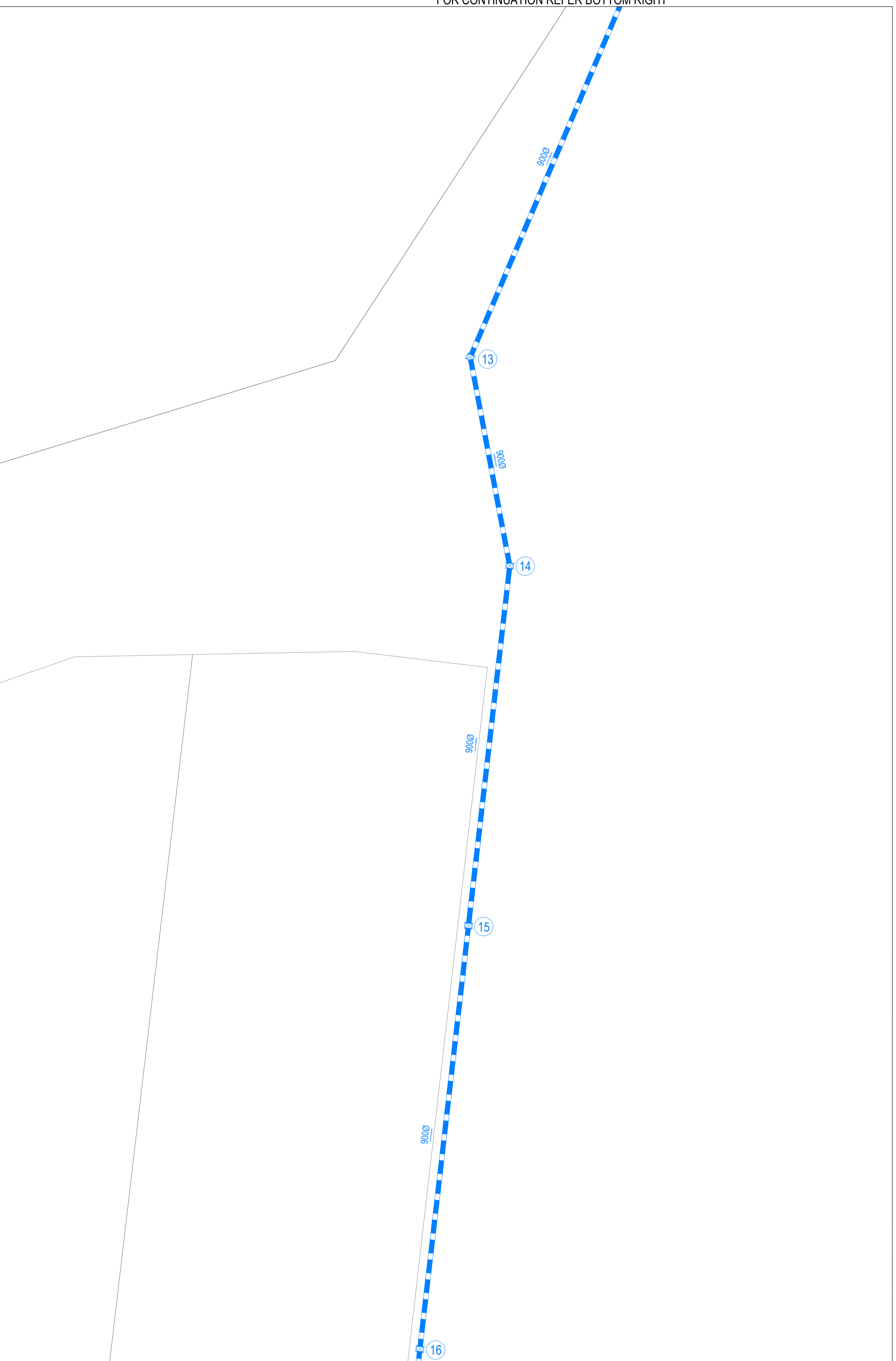
SCALE @ A1: 1:500

DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F500
	REVISION F

FOR CONTINUATION REFER BOTTOM RIGHT

FOR CONTINUATION REFER F500B

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
WLRB-06 LAYOUT PLAN - 02**

STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

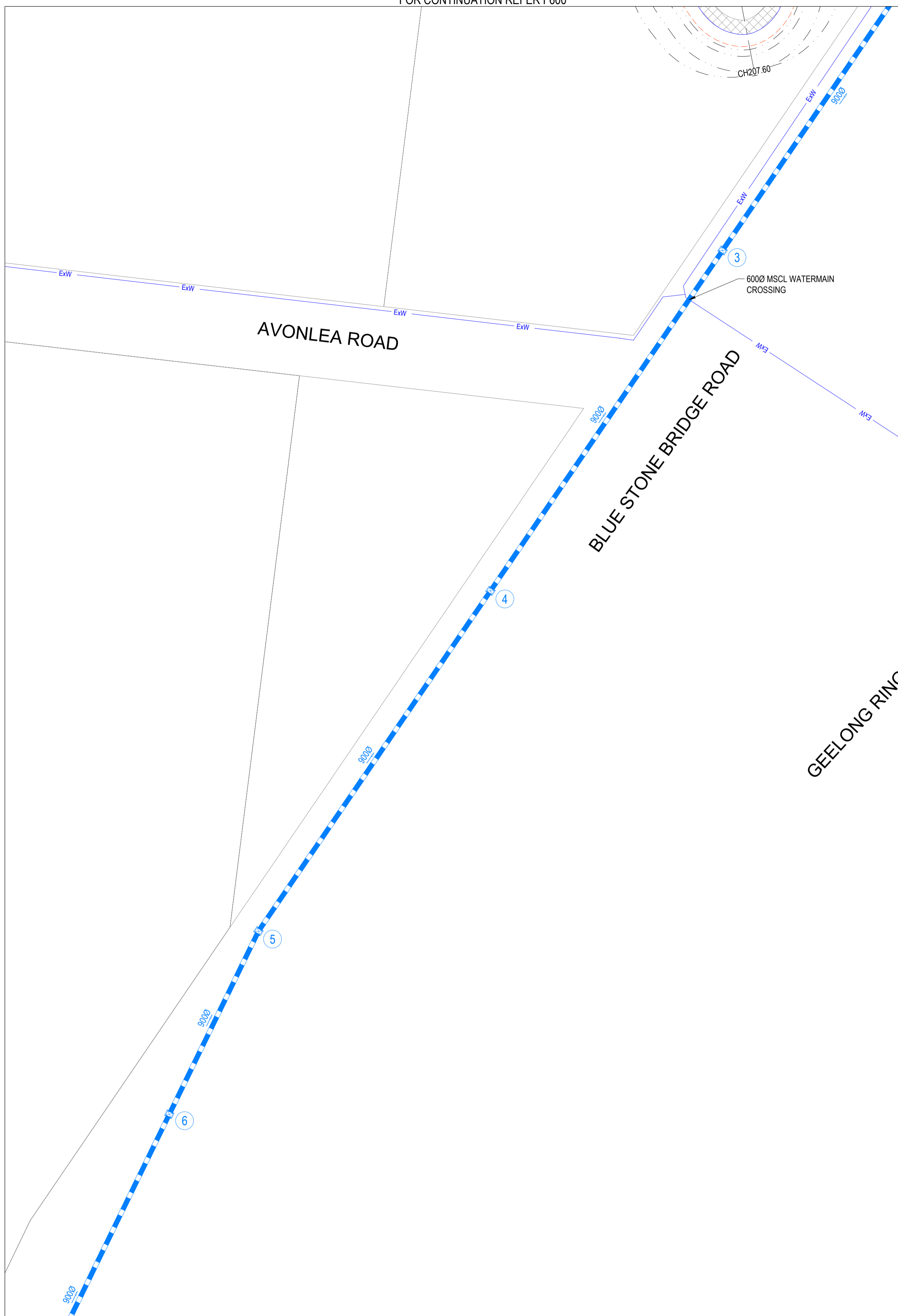
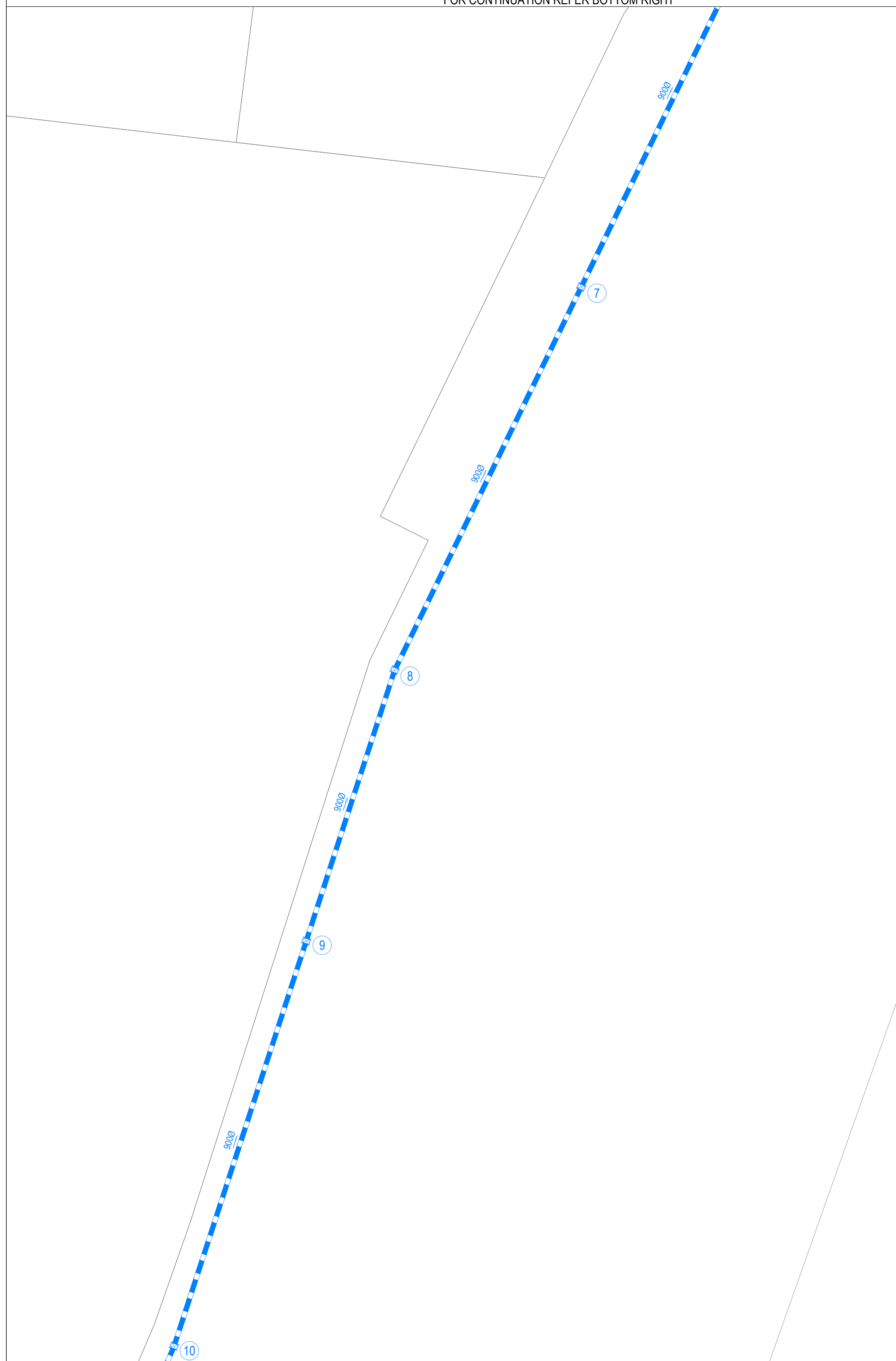
SCALE @ A1 : 1:500

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F500A	F

FOR CONTINUATION REFER BOTTOM RIGHT

FOR CONTINUATION REFER F600

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

FOR CONTINUATION REFER F500A

FOR CONTINUATION REFER TOP LEFT

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			



PROJECT: **CREAMERY ROAD PSP ALTERNATIVE SWMS**

DRAWING TITLE: **FUNCTIONAL LAYOUT - WLRB-06 LAYOUT PLAN - 03**

STATUS: **PRELIMINARY NOT FOR CONSTRUCTION**

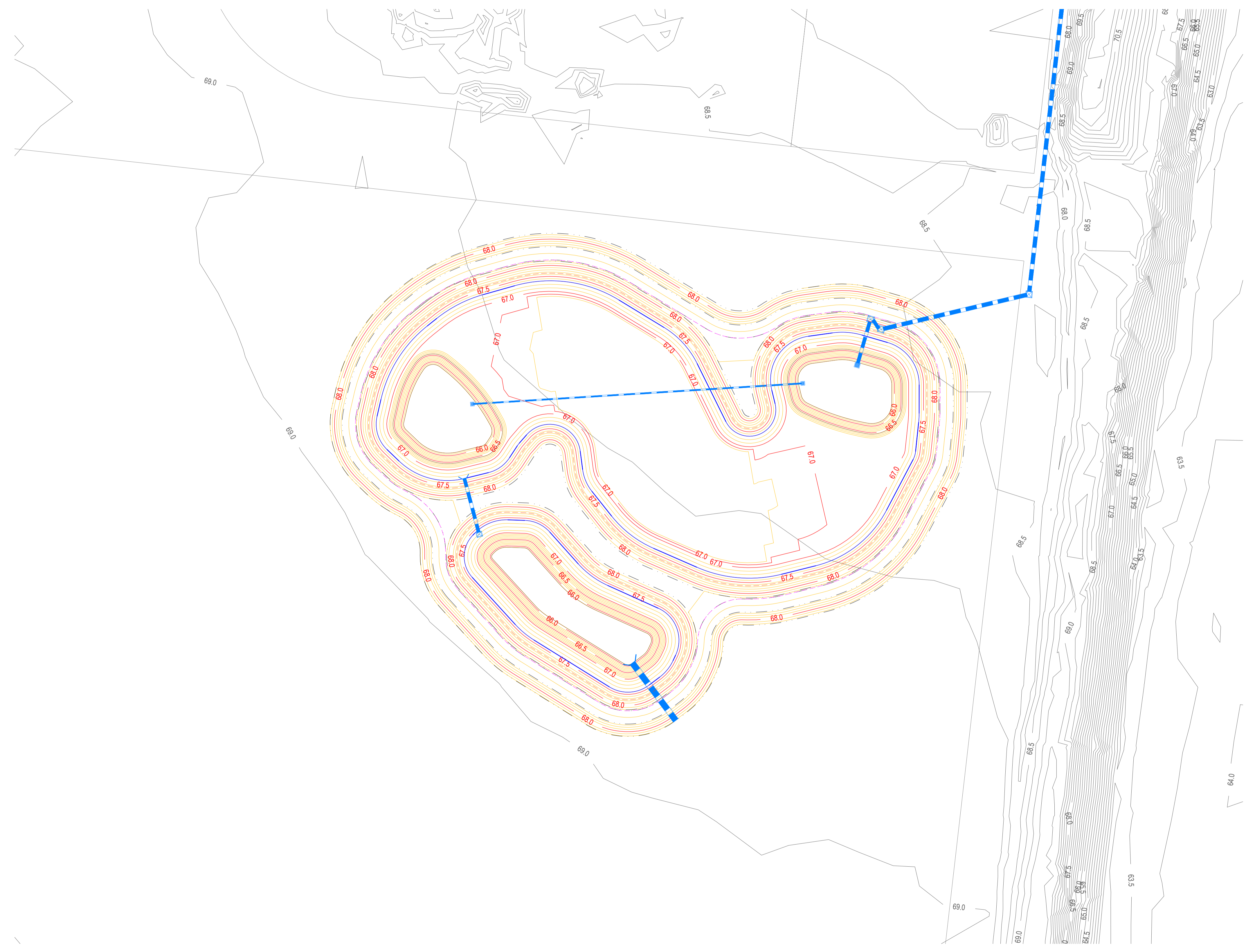
SCALE @ A1: 1:500

DESIGNED: K.MCKELVIE	PROJECT ENGINEER: M.TROUNCE
DRAWN: K.MCKELVIE	PROJECT MANAGER: M.TROUNCE
PROJECT No: 200426	DRAWING No: F500B REVISION: F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND

- NORMAL TOP WATER LEVEL (NTWL 48.00)
- - - EXTENDED DETENTION DEPTH (EDD 48.35)
- MINOR CONTOUR (0.100m)
- MAJOR CONTOUR (0.500m)
- EXISTING CONTOURS
- STORMWATER DRAIN & PIT
- - - BATTER




REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE

CLIENT



Communities Designed for Living



Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**


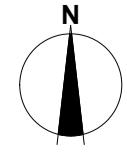
DRAWING TITLE

**FUNCTIONAL LAYOUT -
WLRB-06 CONTOUR PLAN**

STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

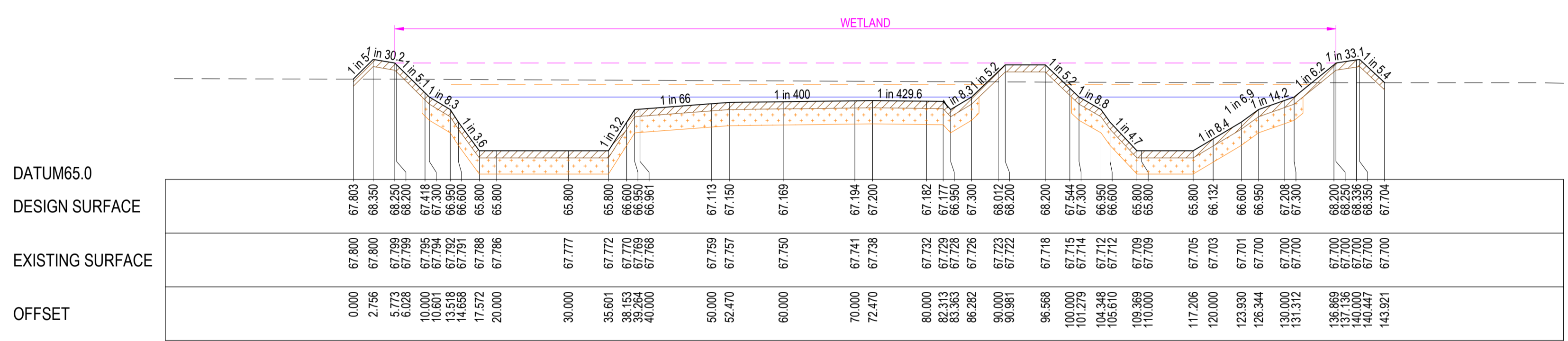
DESIGNED	K.MCKELVIE	PROJECT ENGINEER	M.TROUNCE
DRAWN	K.MCKELVIE	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200426	DRAWING No.	F501
		REVISION	F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

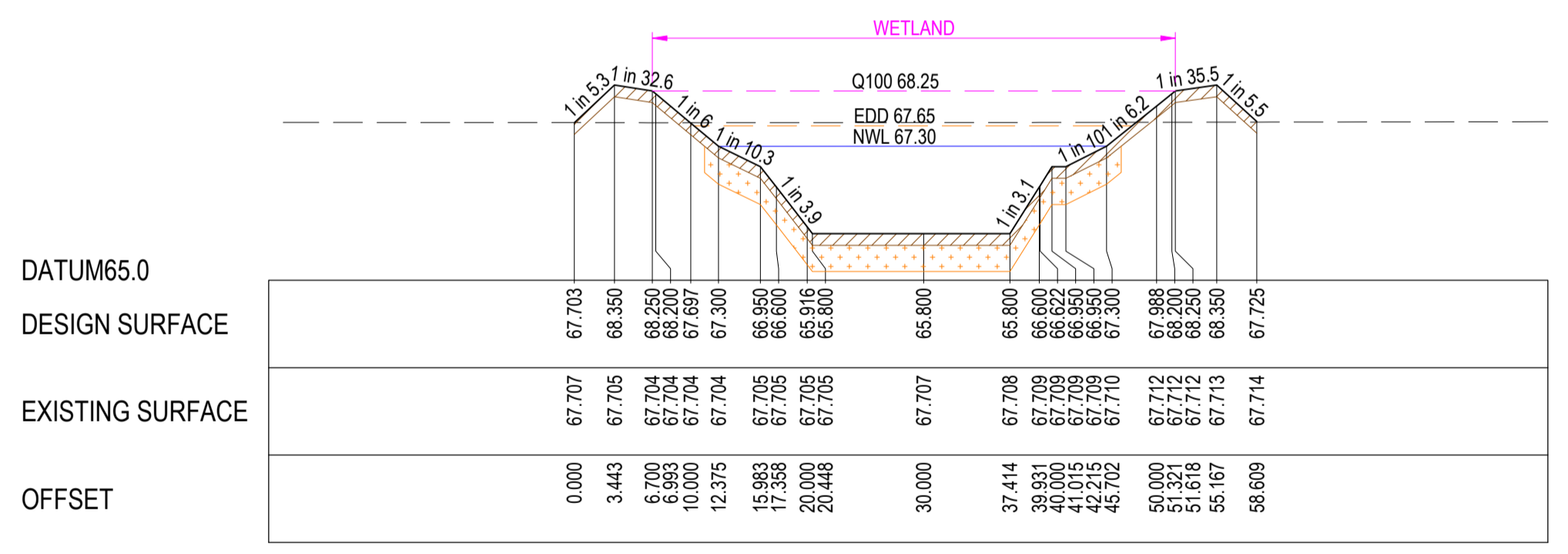
LEGEND

- EXISTING SURFACE
- DESIGN LINE
- NTWL (RL53.5)
- EDD (RL53.85)
- 1% AEP (RL55)

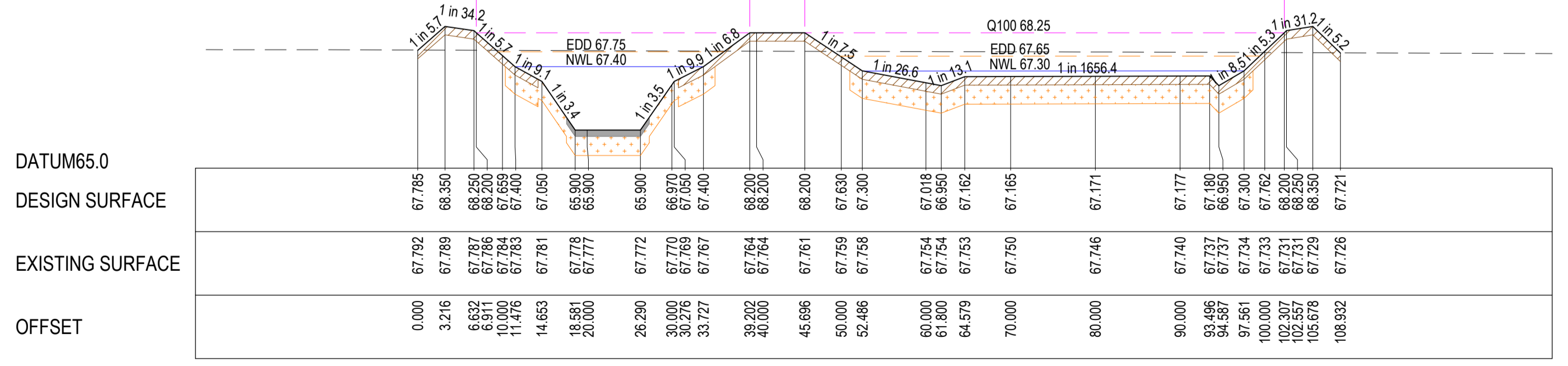
- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND.
MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
- 150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 7251/12/012.



SECTION C-C



SECTION B-B



SECTION A-A

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE

villawood
properties
Communities Designed for Living

creo
CIVIL
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT
CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE
FUNCTIONAL LAYOUT -
CROSS SECTIONS
WLRB-06

STATUS
PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:100 (V)

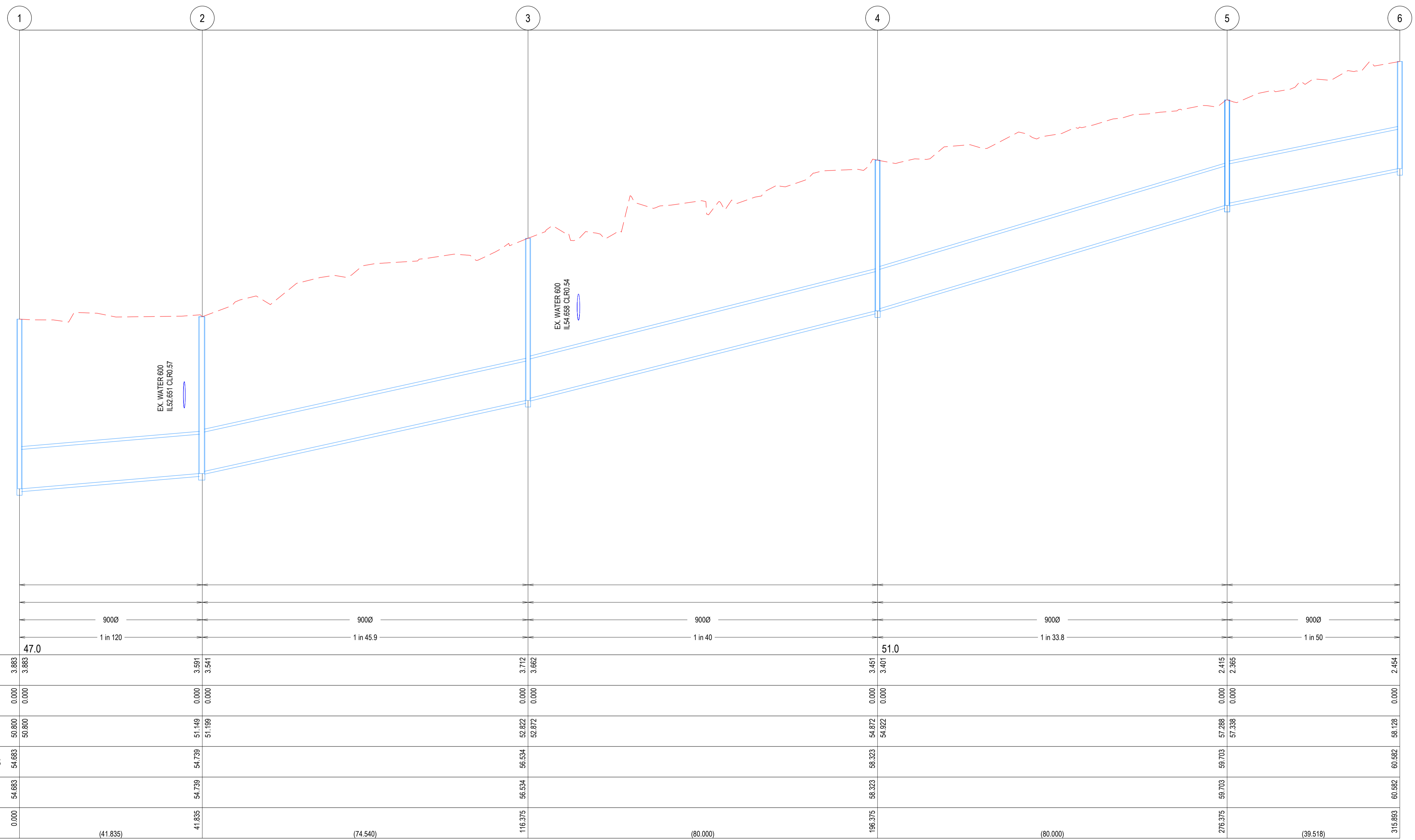
DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F503	F

E:\25\MEGA\TEAM\25\MEGA\1\25\ENERGYSERVICES\1460\8616\730\452-9072-CHEPP2502\200426 - F403 - CROSS SECTIONS.DWG

LEGEND - DRAINAGE LONG SECTION

- EXISTING SURFACE
- DESIGN LINE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- CRUSHED ROCK BACKFILL

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 TYPE UNLESS OTHERWISE SHOWN



NOTE:
WATER LOCATION AND
LEVEL IS INDICATIVE ONLY

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
DRAINAGE LONG SECTIONS - 01**

STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

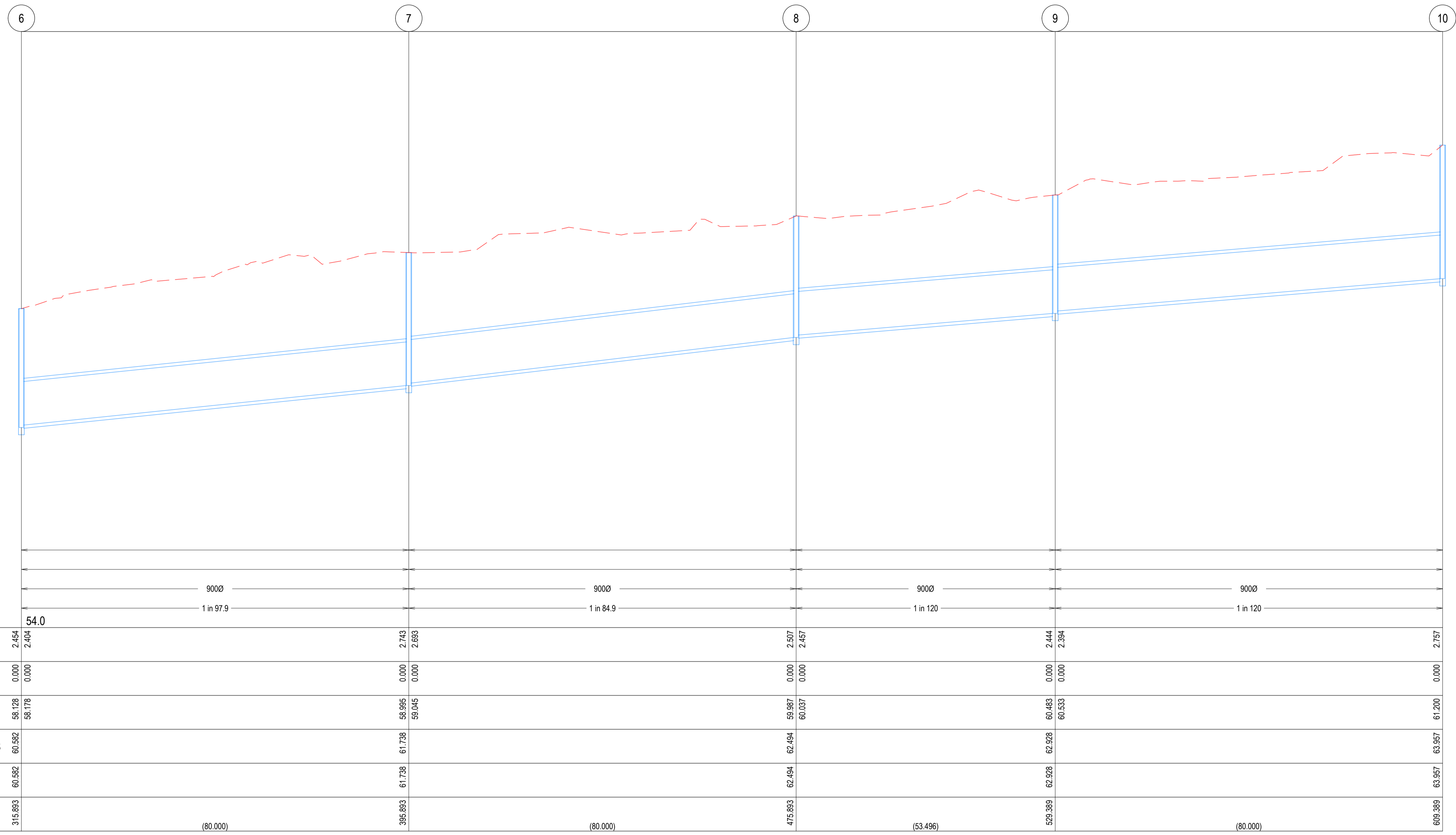
SCALE @ A1: 1:500 (H) 1:50 (V)

DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F504
	REVISION F

LEGEND - DRAINAGE LONG SECTION

- EXISTING SURFACE
- DESIGN LINE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- CRUSHED ROCK BACKFILL

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 TYPE UNLESS OTHERWISE SHOWN



PIPE CLASS
(CLASS 2 UNLESS OTHERWISE NOTED)
DESIGN FLOW (l/s)
CAPACITY (l/s)
AT GRADE VELOCITY (m/s)
PIPE SIZE (mm)
GRADE
DATUM

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
DRAINAGE LONG SECTIONS - 02**

STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:50 (V)

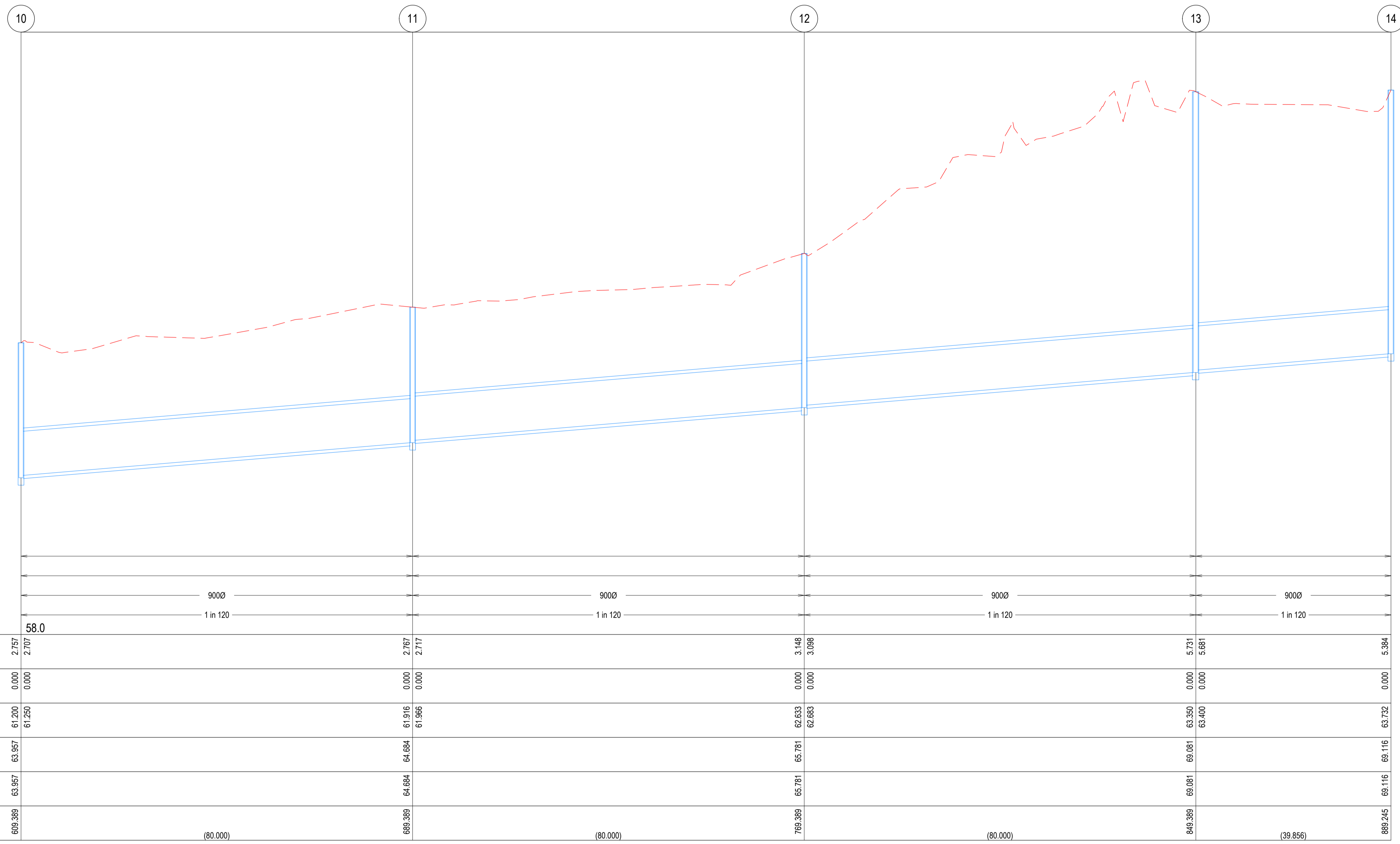
DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F505
	REVISION F

LEGEND - DRAINAGE LONG SECTION

- EXISTING SURFACE
- DESIGN LINE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE

CRUSHED ROCK BACKFILL

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 TYPE UNLESS OTHERWISE SHOWN



PIPE CLASS
(CLASS 2 UNLESS OTHERWISE NOTED)
DESIGN FLOW (l/s)
CAPACITY (l/s)
AT GRADE VELOCITY (m/s)
PIPE SIZE (mm)
GRADE
DATUM

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
DRAINAGE LONG SECTIONS - 03**

STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:50 (V)

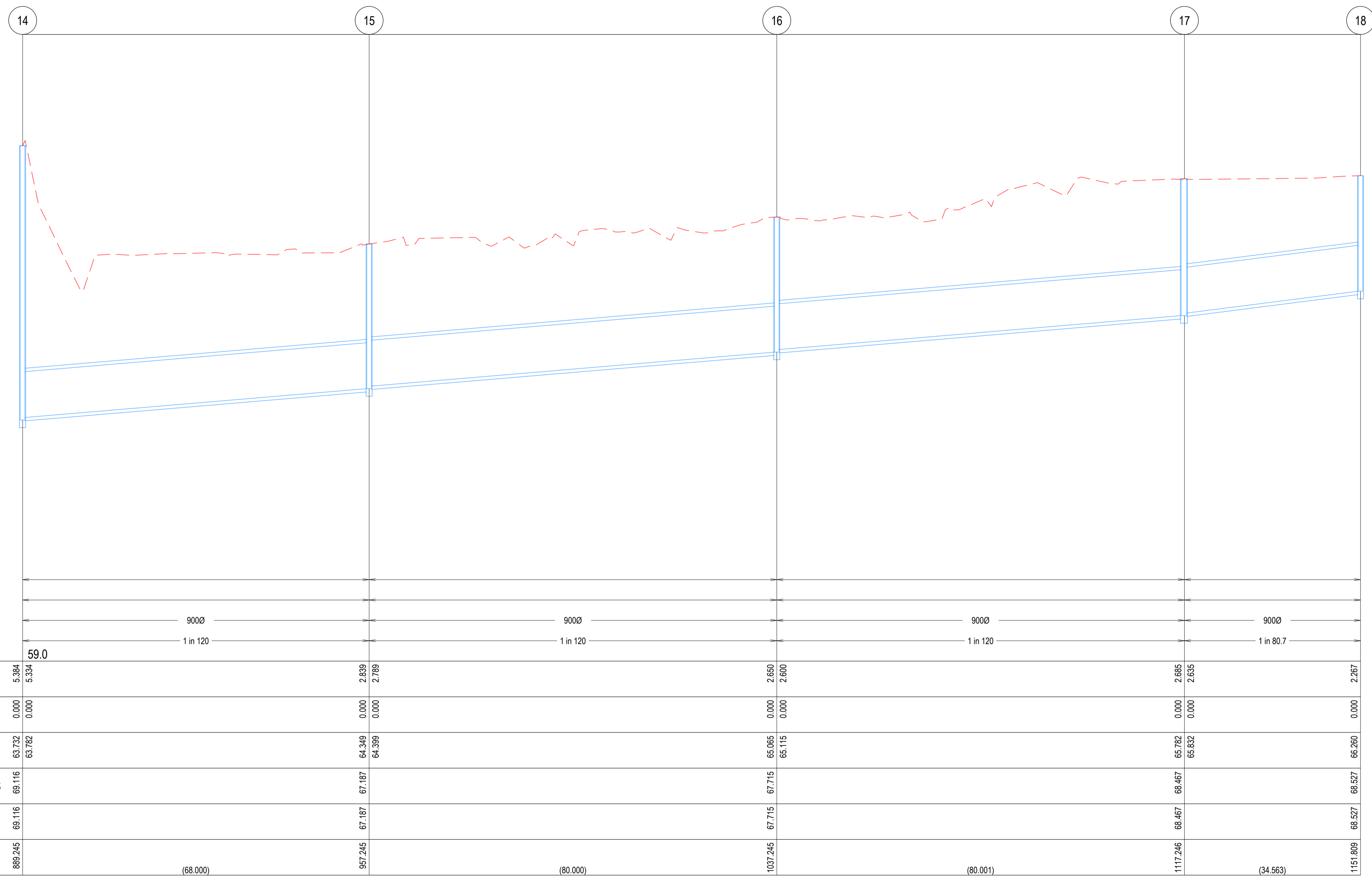
DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F506 REVISION F

LEGEND - DRAINAGE LONG SECTION

- EXISTING SURFACE
- DESIGN LINE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE

CRUSHED ROCK BACKFILL

NOTE: ALL DRAINAGE PIPES ARE CLASS 2 TYPE UNLESS OTHERWISE SHOWN



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
DRAINAGE LONG SECTIONS - 04**

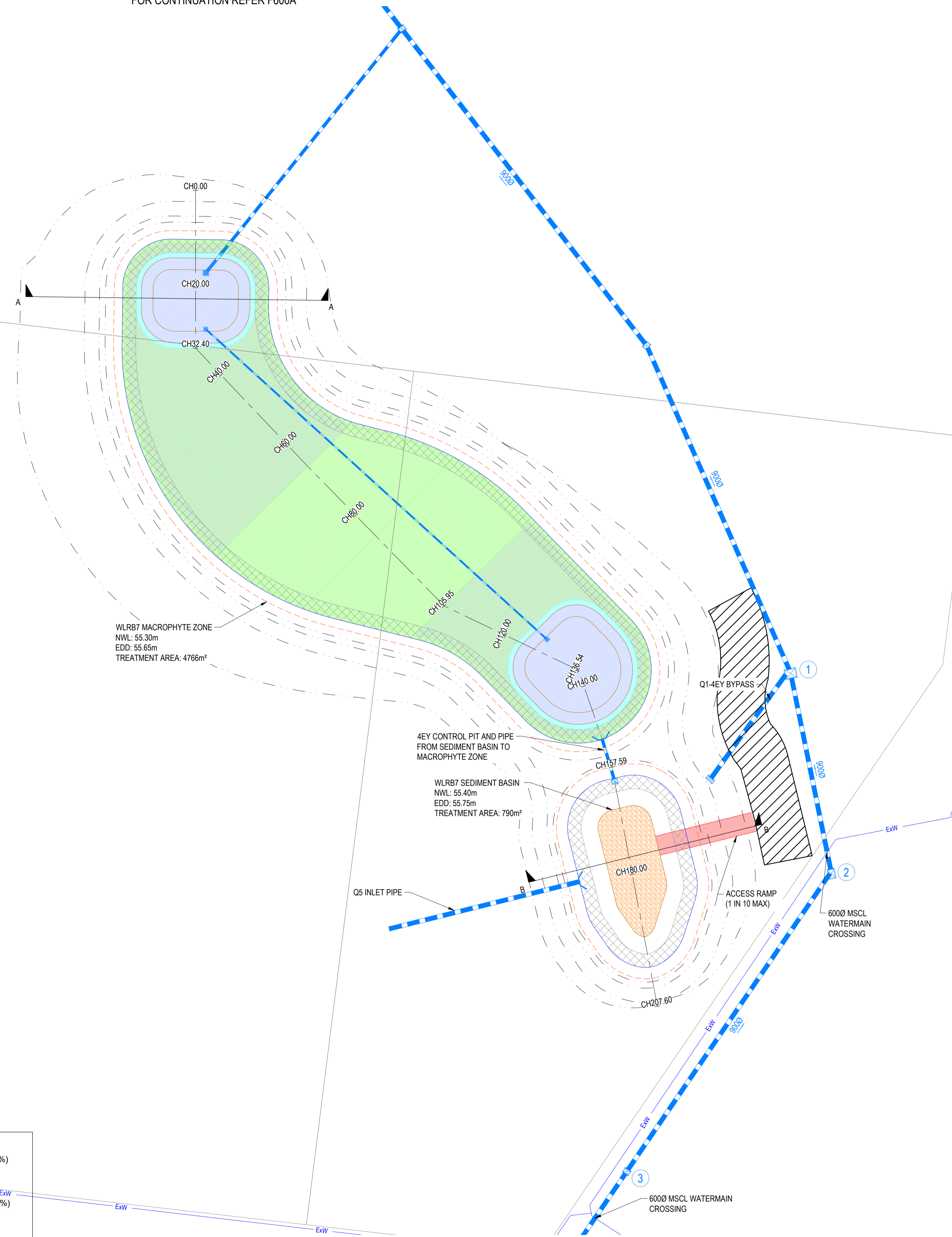
STATUS

**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:50 (V)

DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F507
	REVISION F

BLUE STONE BRIDGE ROAD



WLRB7 MACROPHYTE ZONE
 NWL: 55.30m
 EDD: 55.65m
 TREATMENT AREA: 4766m²

WLRB7 SEDIMENT BASIN
 NWL: 55.40m
 EDD: 55.75m
 TREATMENT AREA: 790m²

WLRB7 AREAS & VOLUMES

SED POND WATER SURFACE AREA (AT NWL)	= 790m ²
WETLAND WATER SURFACE AREA (AT NWL)	= 4,766m ²
SEDIMENT POND PERMANENT WATER VOLUME (BELOW NWL)	= 667m ³
WETLAND PERMANENT WATER VOLUME (TO NWL)	= 1,936m ³
SEDIMENT STORAGE VOLUME (TO RL54.90m)	= 364m ³
DRYING ZONE AREA	= 556m ²

WETLAND ZONES

	SHALLOW MARSH = 1,684m ² (35%) (0.000m - 0.150m DEPTH)
	DEEP MARSH = 2,133m ² (45%) (0.150m - 0.350m DEPTH)
	SUBMERGED MARSH = 157m ² (3%) (0.350m - 0.700m DEPTH)
	OPEN WATER = 791m ² (17%) (0.700m - 1.500m DEPTH)

LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

FOR CONTINUATION REFER F500B

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			
E	24/07/25	ISSUED FOR INFORMATION			
A	27/02/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE

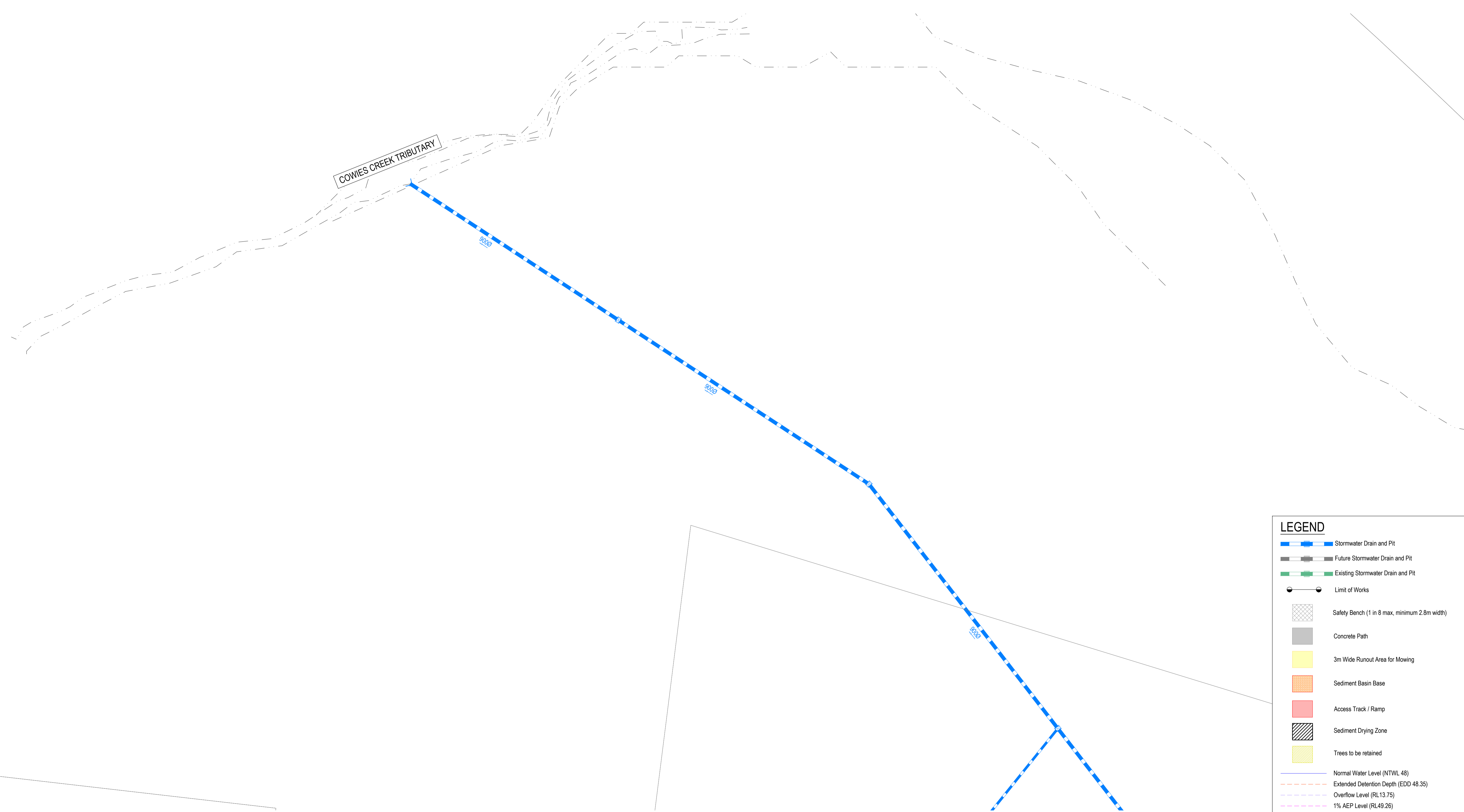
FUNCTIONAL LAYOUT -
WLRB-07 LAYOUT PLAN - 01

STATUS

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1: 1:500

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F600	F



LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

FOR CONTINUATION REFER F600

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
WLRB-07 LAYOUT PLAN - 02**

STATUS

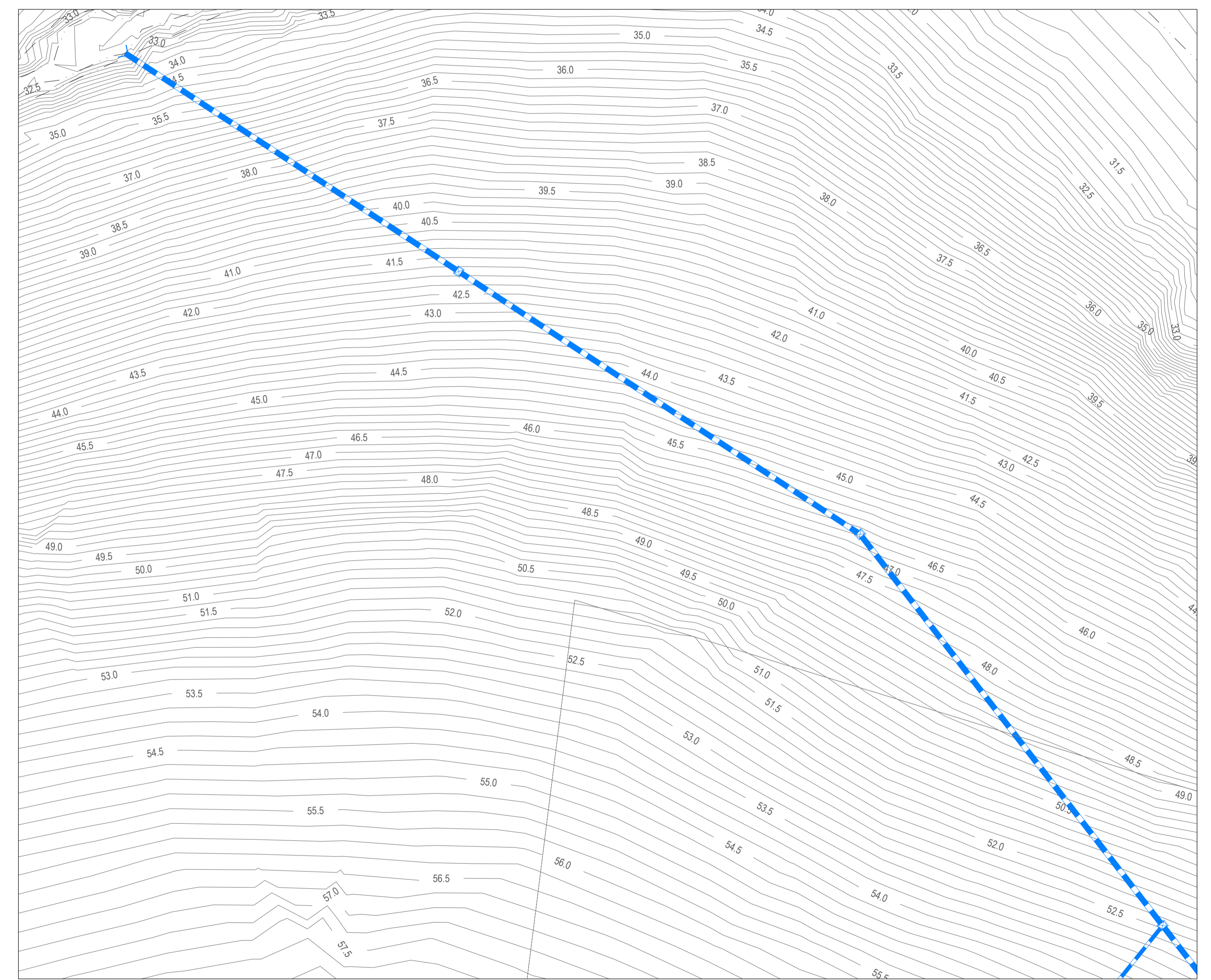
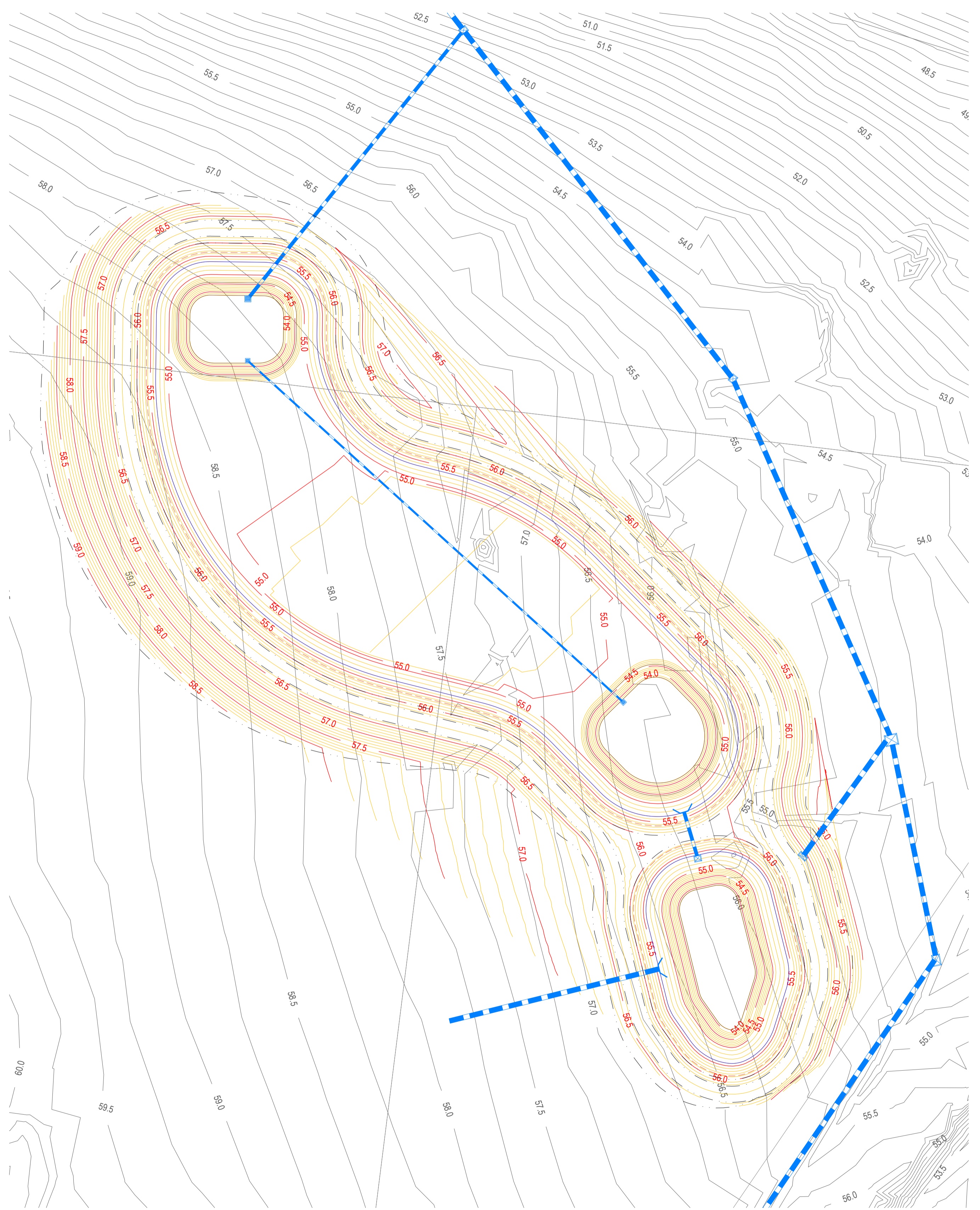
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F600A
	REVISION F

LEGEND

- NORMAL TOP WATER LEVEL (NTWL 48.00)
- - - EXTENDED DETENTION DEPTH (EDD 48.35)
- MINOR CONTOUR (0.100m)
- MAJOR CONTOUR (0.500m)
- EXISTING CONTOURS
- STORMWATER DRAIN & PIT
- - - BATTER



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			
E	24/07/25	ISSUED FOR INFORMATION			
A	27/02/25	ISSUED FOR INFORMATION			

CLIENT



Communities Designed for Living



Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**


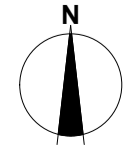
DRAWING TITLE

**FUNCTIONAL LAYOUT -
WLRB-07 CONTOUR PLAN**

STATUS

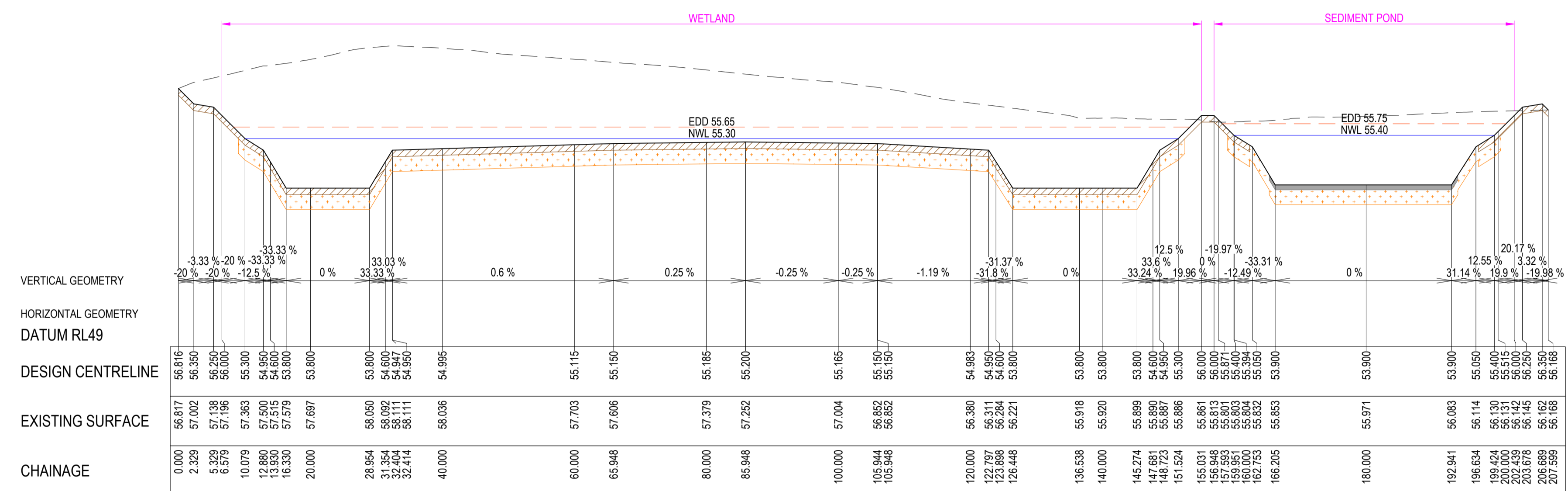
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

DESIGNED	K.MCKELVIE	PROJECT ENGINEER	M.TROUNCE
DRAWN	K.MCKELVIE	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200426	DRAWING No.	F601
		REVISION	F

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)



WLRB-07 LONGITUDINAL SECTION

- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 725/112/012.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE

FUNCTIONAL LAYOUT -
LONGITUDINAL SECTIONS - WLRB-07

STATUS

PRELIMINARY
NOT FOR CONSTRUCTION

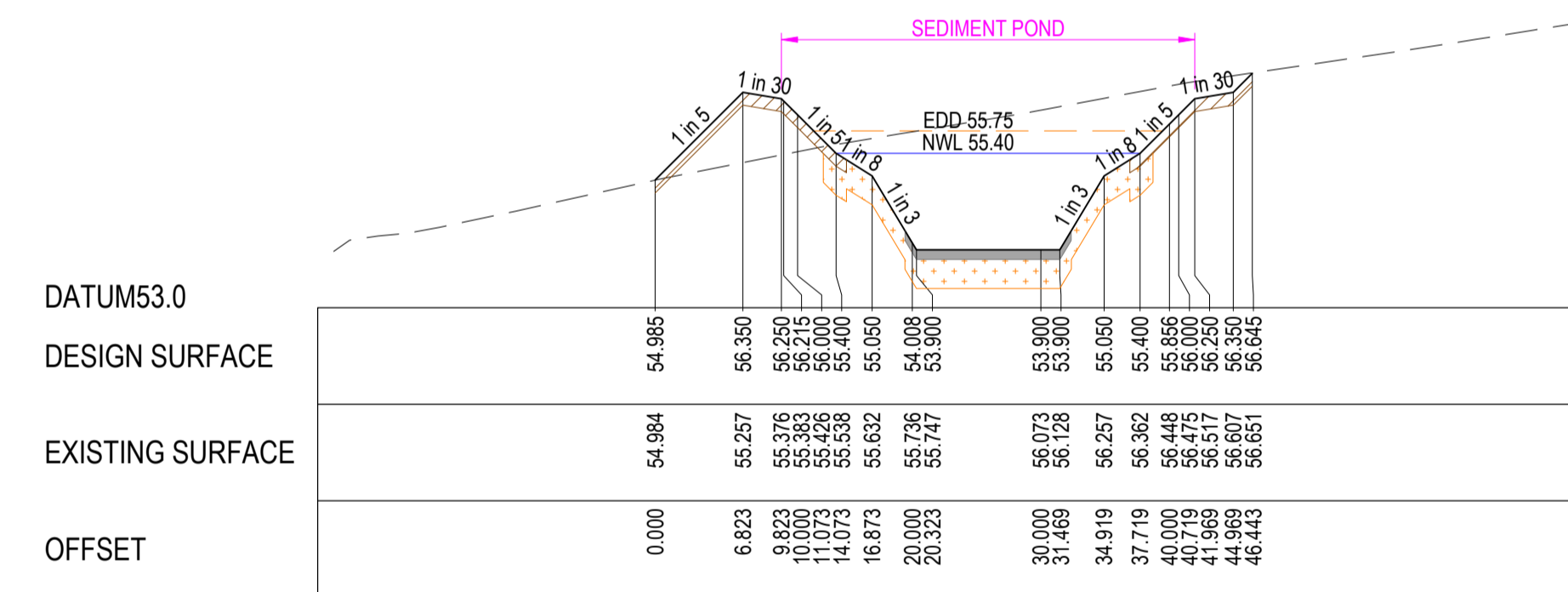
SCALE @ A1: 1:500 (H) 1:100 (V)

DESIGNED	K.MCKELVIE	PROJECT ENGINEER	M.TROUNCE
DRAWN	K.MCKELVIE	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200426	DRAWING No.	F602
		REVISION	F

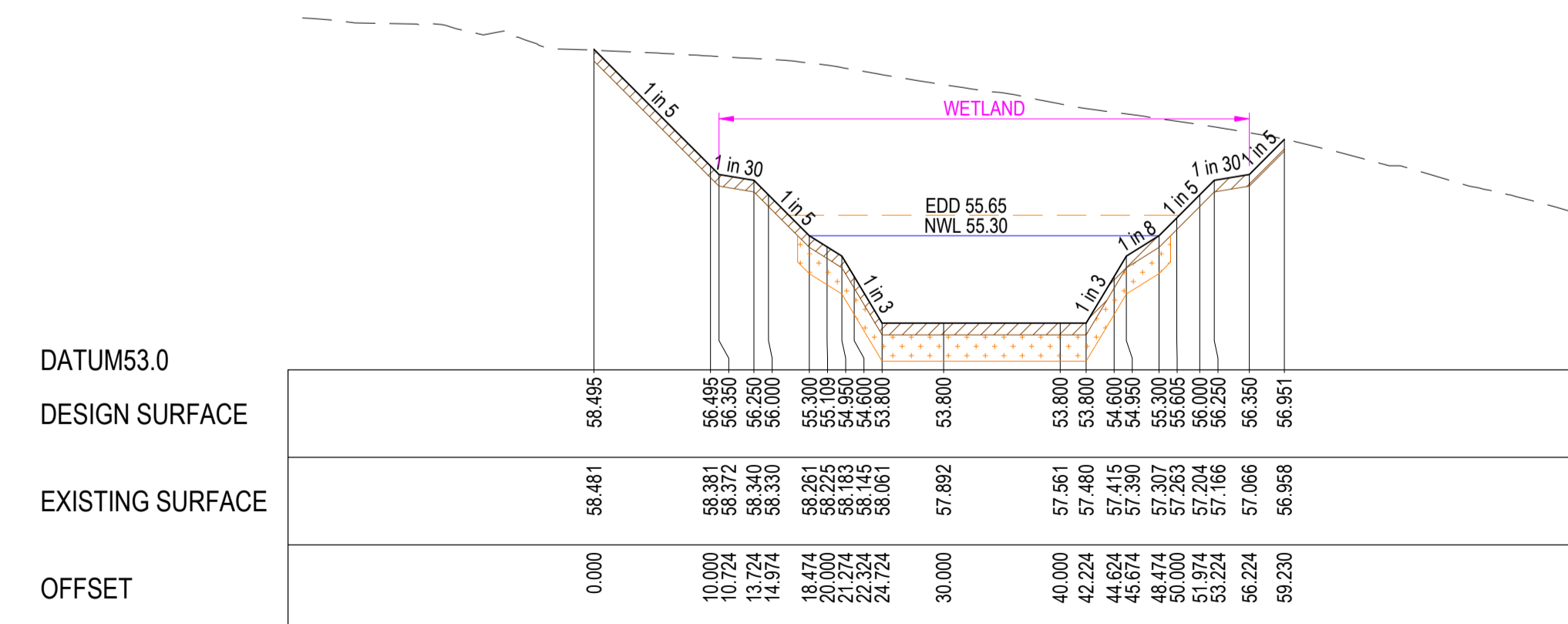
CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)

- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 7251/12/012.



SECTION B-B



SECTION A-A

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE

CLIENT

Communities Designed for Living

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
CROSS SECTIONS
WLRB-07**

STATUS

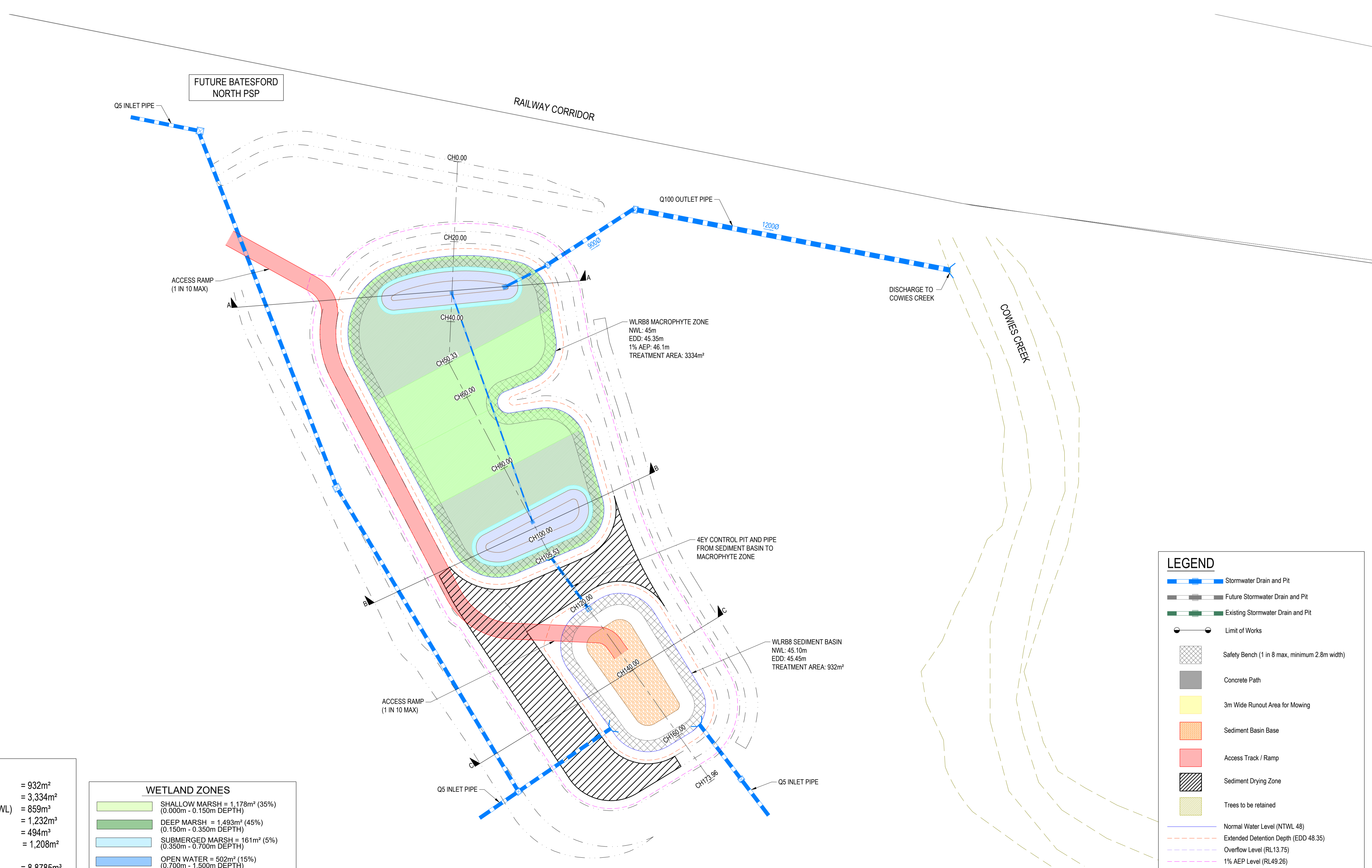
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:100 (V)

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F603	F

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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



WLRB8 AREAS & VOLUMES

SED POND WATER SURFACE AREA (AT NWL)	= 932m ²
WETLAND WATER SURFACE AREA (AT NWL)	= 3,334m ²
SEDIMENT POND PERMANENT WATER VOLUME (BELOW NWL)	= 859m ³
WETLAND PERMANENT WATER VOLUME (TO NWL)	= 1,232m ³
SEDIMENT STORAGE VOLUME (TO RL44.60m)	= 494m ³
DRYING ZONE AREA	= 1,208m ²
Q100 STORAGE VOLUME (TO RL46.10m)	= 8,8785m ³

WETLAND ZONES

	SHALLOW MARSH = 1,178m ² (35%) (0.000m - 0.150m DEPTH)
	DEEP MARSH = 1,493m ² (45%) (0.150m - 0.350m DEPTH)
	SUBMERGED MARSH = 161m ² (5%) (0.350m - 0.700m DEPTH)
	OPEN WATER = 502m ² (15%) (0.700m - 1.500m DEPTH)

LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

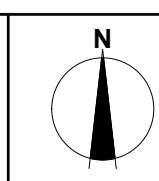


PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE
**FUNCTIONAL LAYOUT -
WLRB-08 LAYOUT PLAN**

STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**

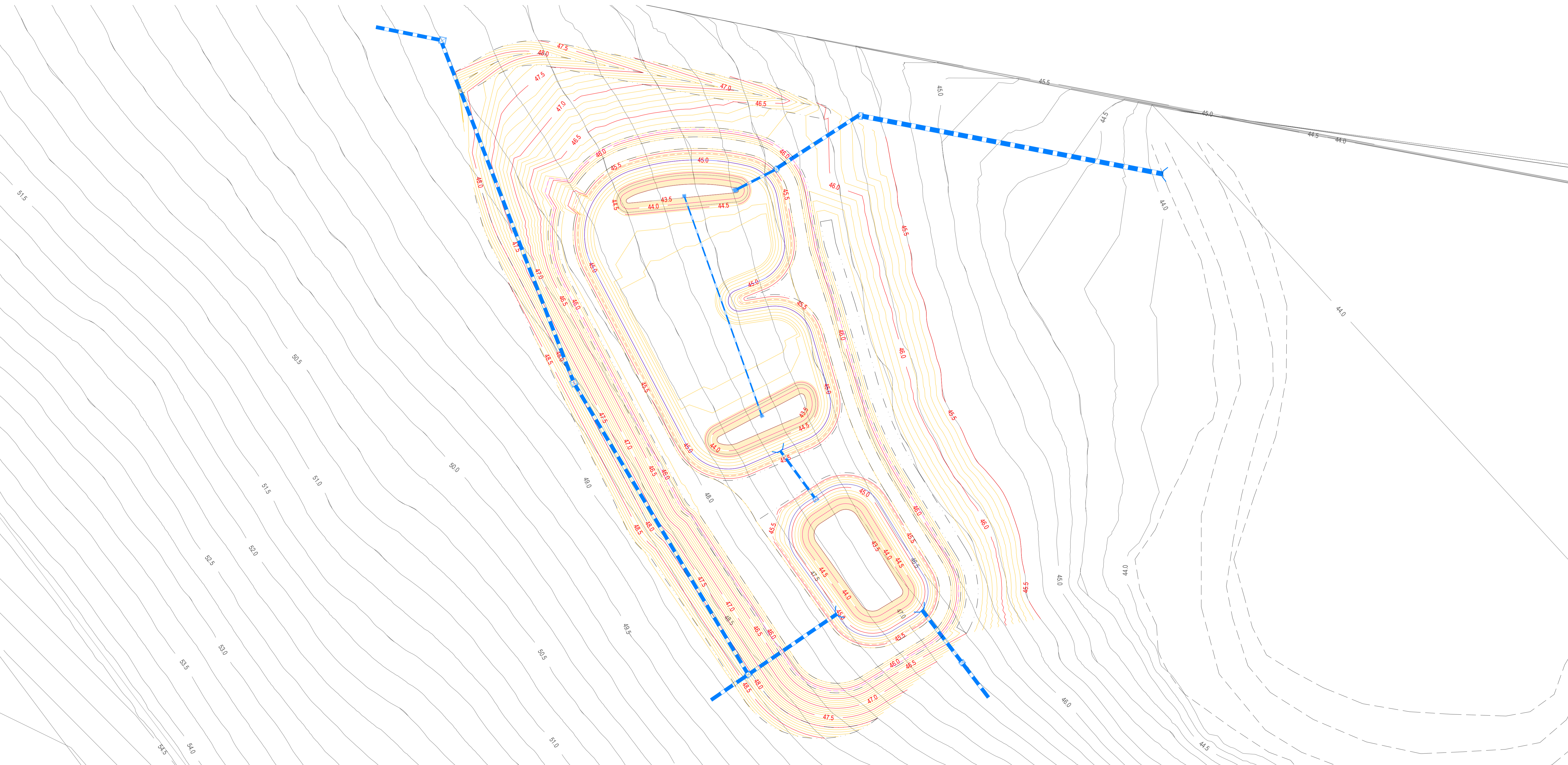
SCALE @ A1:
NOT TO SCALE



DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F700
	REVISION F

LEGEND

- NORMAL TOP WATER LEVEL (NTWL 48.00)
- - - EXTENDED DETENTION DEPTH (EDD 48.35)
- MINOR CONTOUR (0.100m)
- MAJOR CONTOUR (0.500m)
- EXISTING CONTOURS
- STORMWATER DRAIN & PIT
- - - BATTER



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

villawood
properties
Communities Designed for Living

creo
CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

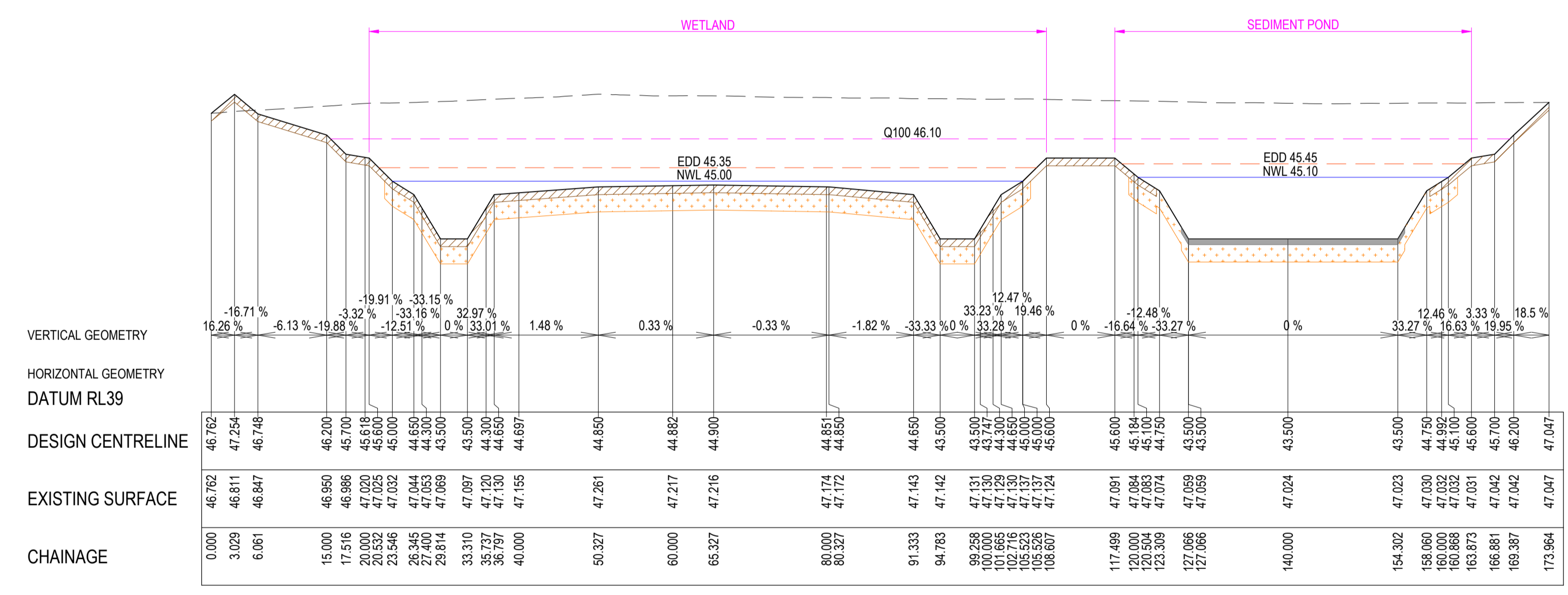
DRAWING TITLE
**FUNCTIONAL LAYOUT -
WLRB-08 CONTOUR PLAN**

STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F701
	REVISION F

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)



WLRB-08 LONGITUDINAL SECTION

- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 725/112/012.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

villawood properties
Communities Designed for Living

creo CIVIL
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT
CREAMERY ROAD PSP ALTERNATIVE SWMS

DRAWING TITLE
FUNCTIONAL LAYOUT - LONGITUDINAL SECTIONS - WLRB08

STATUS
PRELIMINARY NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:100 (V)

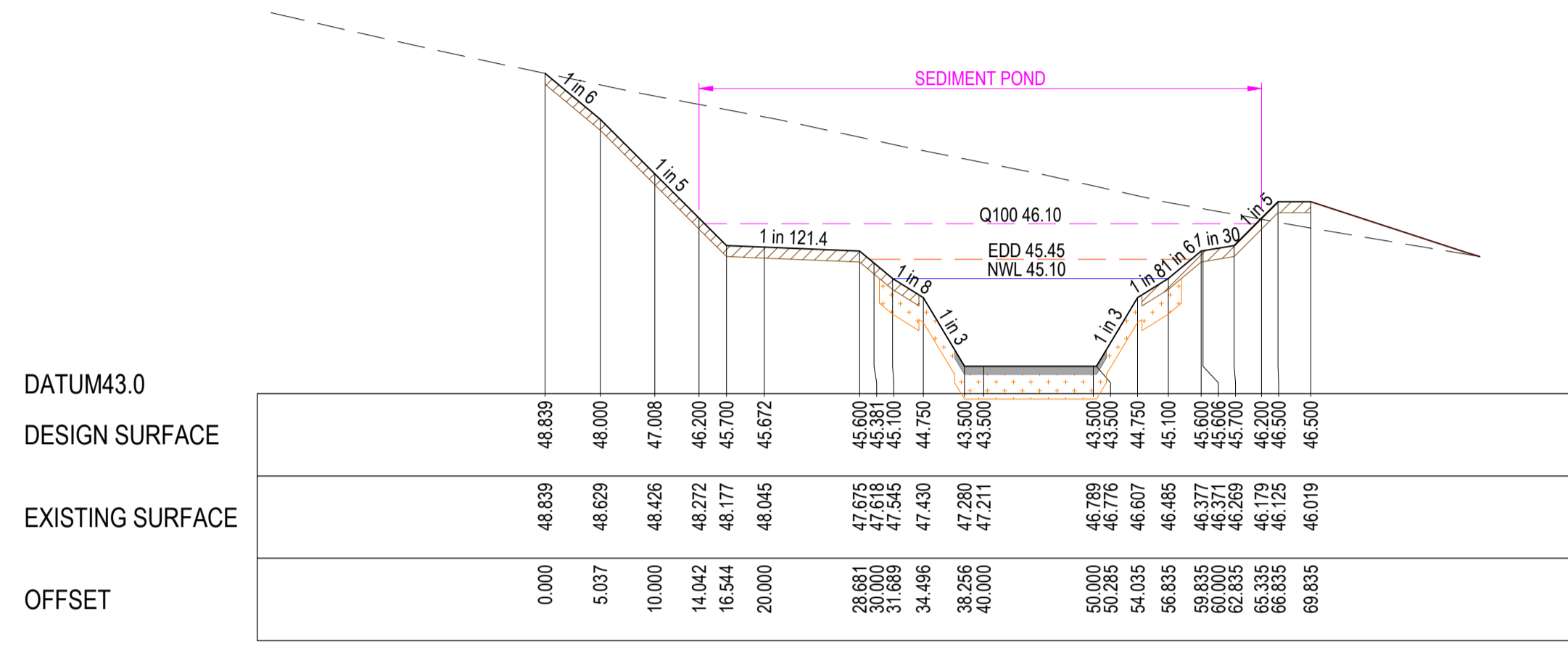
DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F702	F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

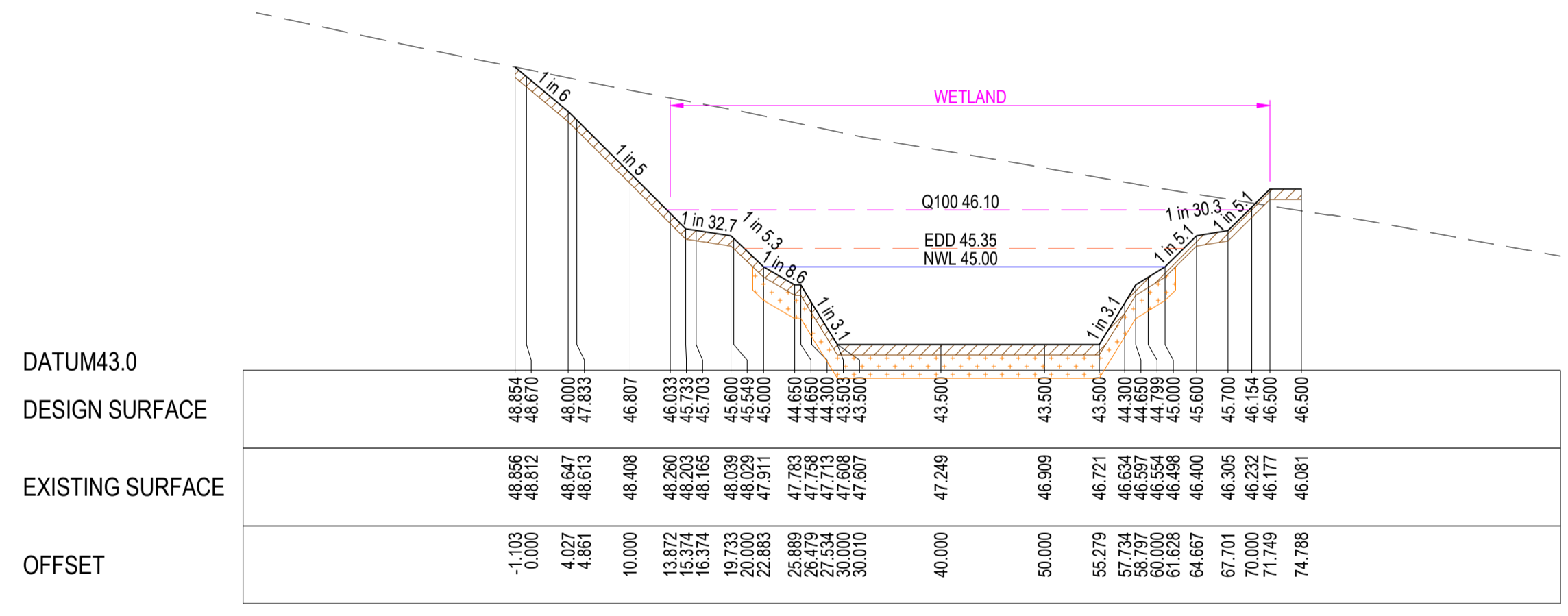
LEGEND

- EXISTING SURFACE
- DESIGN LINE
- NTWL (RL53.5)
- EDD (RL45.85)
- 1% AEP (RL55)

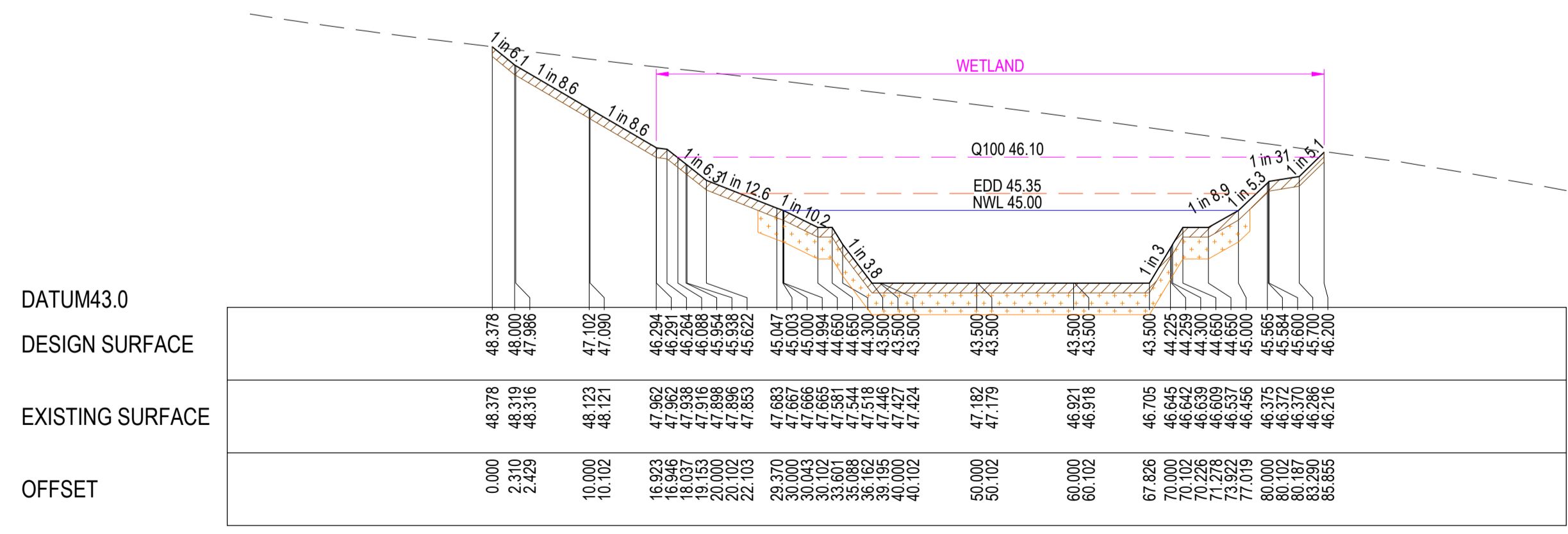
- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 7251/12/012.



SECTION C-C



SECTION B-B



SECTION A-A

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
CROSS SECTIONS
WLRB-08**

STATUS

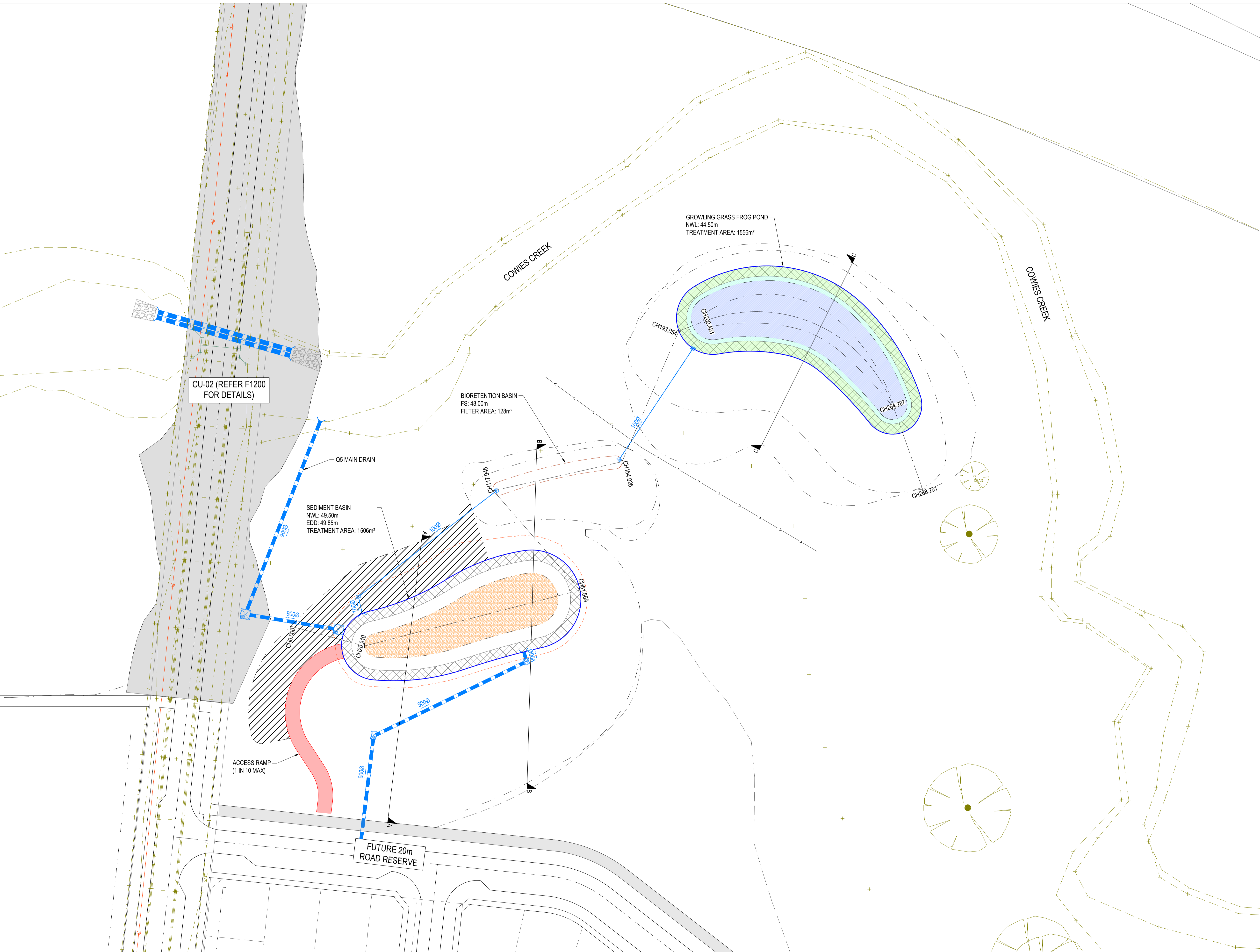
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1: 1:500 (H) 1:100 (V)

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F703	F

E:\2025\MEGA\TEAM\2025\MEGA\SERVER\SERVER\2025\152-9072-CHEFF\2025\200426-F408-CROSS SECTIONS.DWG

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



GGF ZONES	
	LITTORAL = 475m² (31%)
	PERMANENT SHALLOW = 188m² (12%)
	DEEP = 892m² (57%)

LEGEND	
	Stormwater Drain and Pit
	Future Stormwater Drain and Pit
	Existing Stormwater Drain and Pit
	Limit of Works
	Safety Bench (1 in 8 max, minimum 2.8m width)
	Concrete Path
	3m Wide Runout Area for Mowing
	Sediment Basin Base
	Access Track / Ramp
	Sediment Drying Zone
	Trees to be retained
	Normal Water Level (NTWL 48)
	Extended Detention Depth (EDD 48.35)
	Overflow Level (RL13.75)
	1% AEP Level (RL49.26)
	Batter
	Proposed Swale

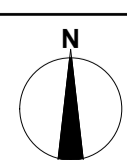
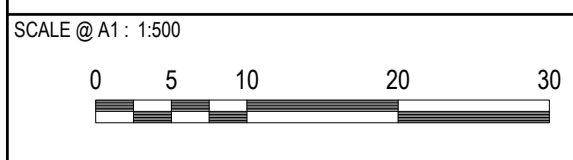
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE



PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE
**FUNCTIONAL LAYOUT -
SBRB-09 + BIO LAYOUT PLAN**

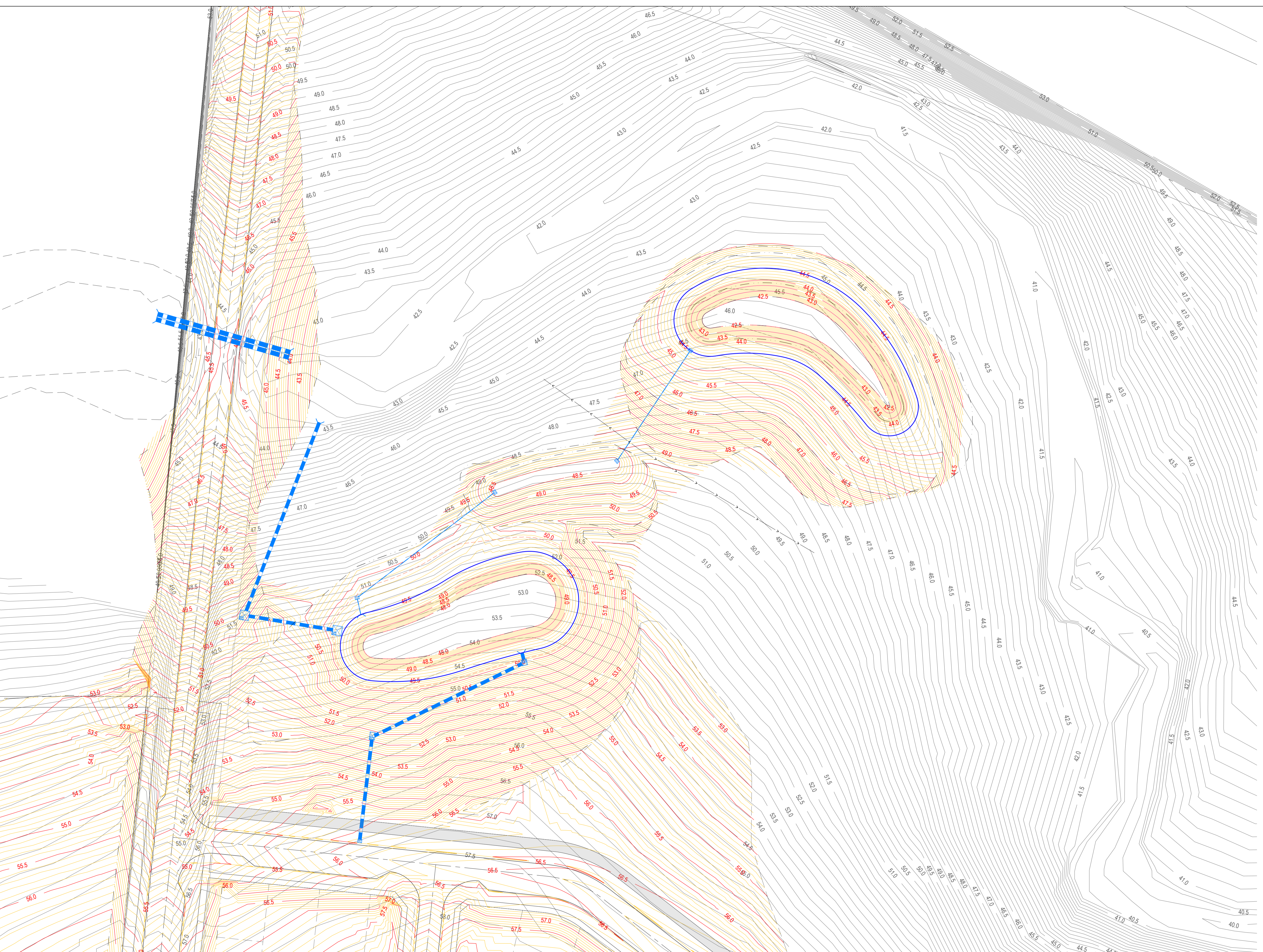
STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**



DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F800	F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND	
	NORMAL TOP WATER LEVEL (NTWL 48.00)
	EXTENDED DETENTION DEPTH (EDD 48.35)
	MINOR CONTOUR (0.100m)
	MAJOR CONTOUR (0.500m)
	EXISTING CONTOURS
	STORMWATER DRAIN & PIT
	BATTER
	PROPOSED SWALE



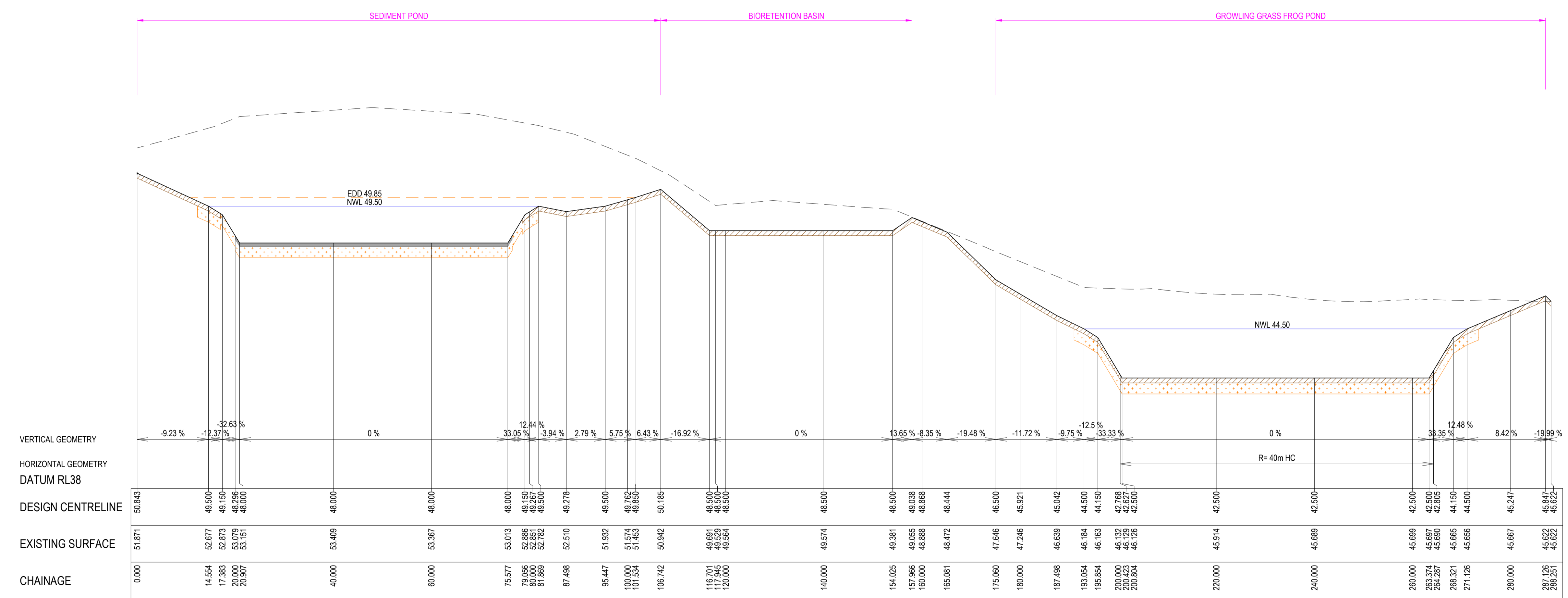
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE



PROJECT	DRAWING TITLE
CREAMERY ROAD PSP ALTERNATIVE SWMS	FUNCTIONAL LAYOUT - SBRB-09 + BIO CONTOUR PLAN
STATUS	SCALE @ A1: 1:500
PRELIMINARY NOT FOR CONSTRUCTION	0 5 10 20 30

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F801	F

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)



- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 725/112/012.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

CLIENT

Communities Designed for Living

CREO CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE

FUNCTIONAL LAYOUT -
LONGITUDINAL SECTIONS - SBRB-09 + BIO

STATUS






PRELIMINARY
NOT FOR CONSTRUCTION

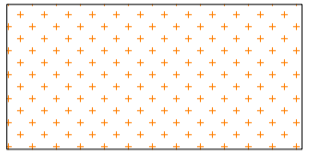
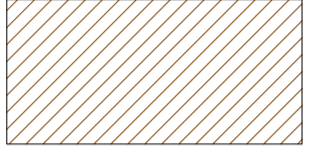

SCALE @ A1: 1:500 (H) 1:100 (V)

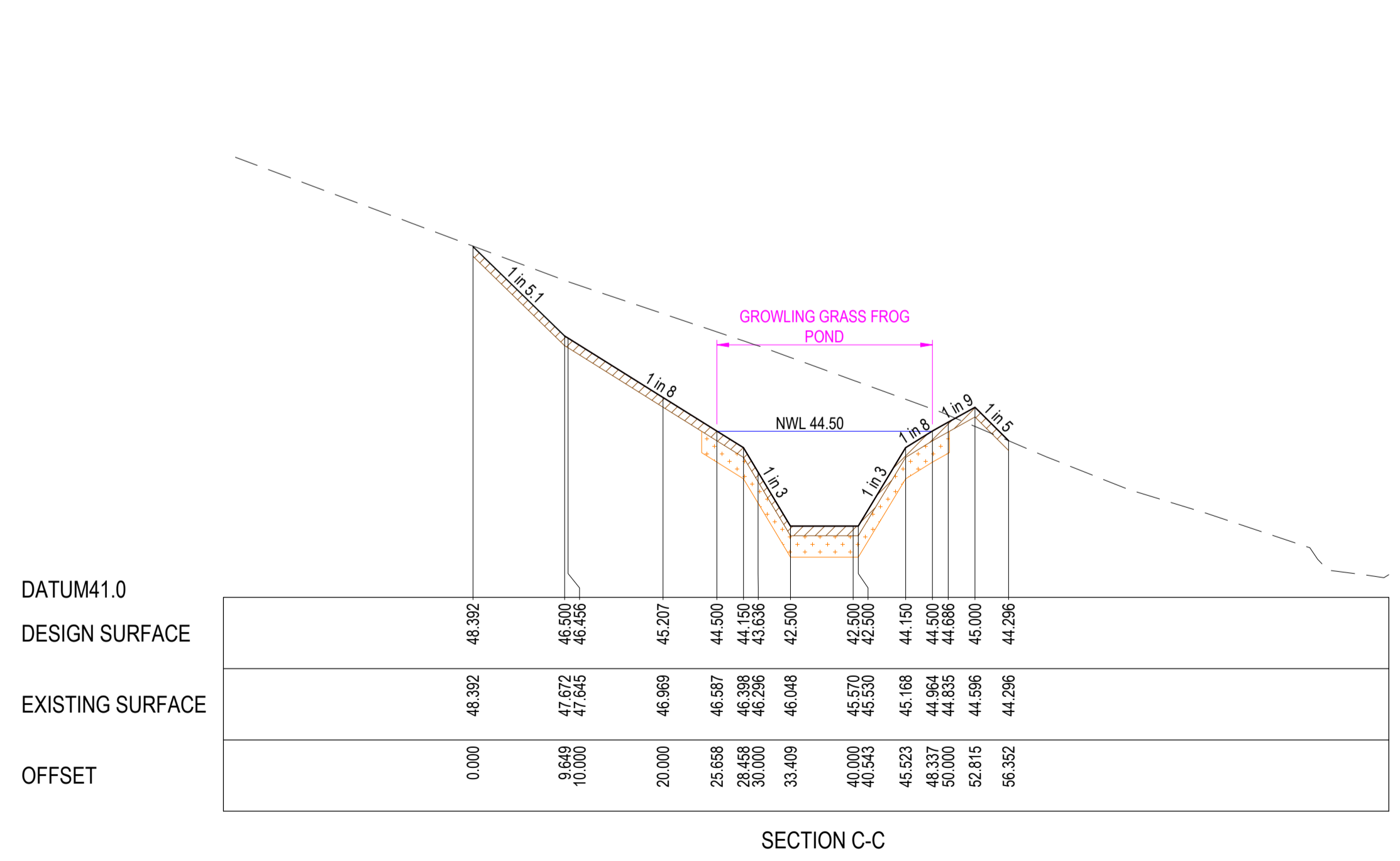
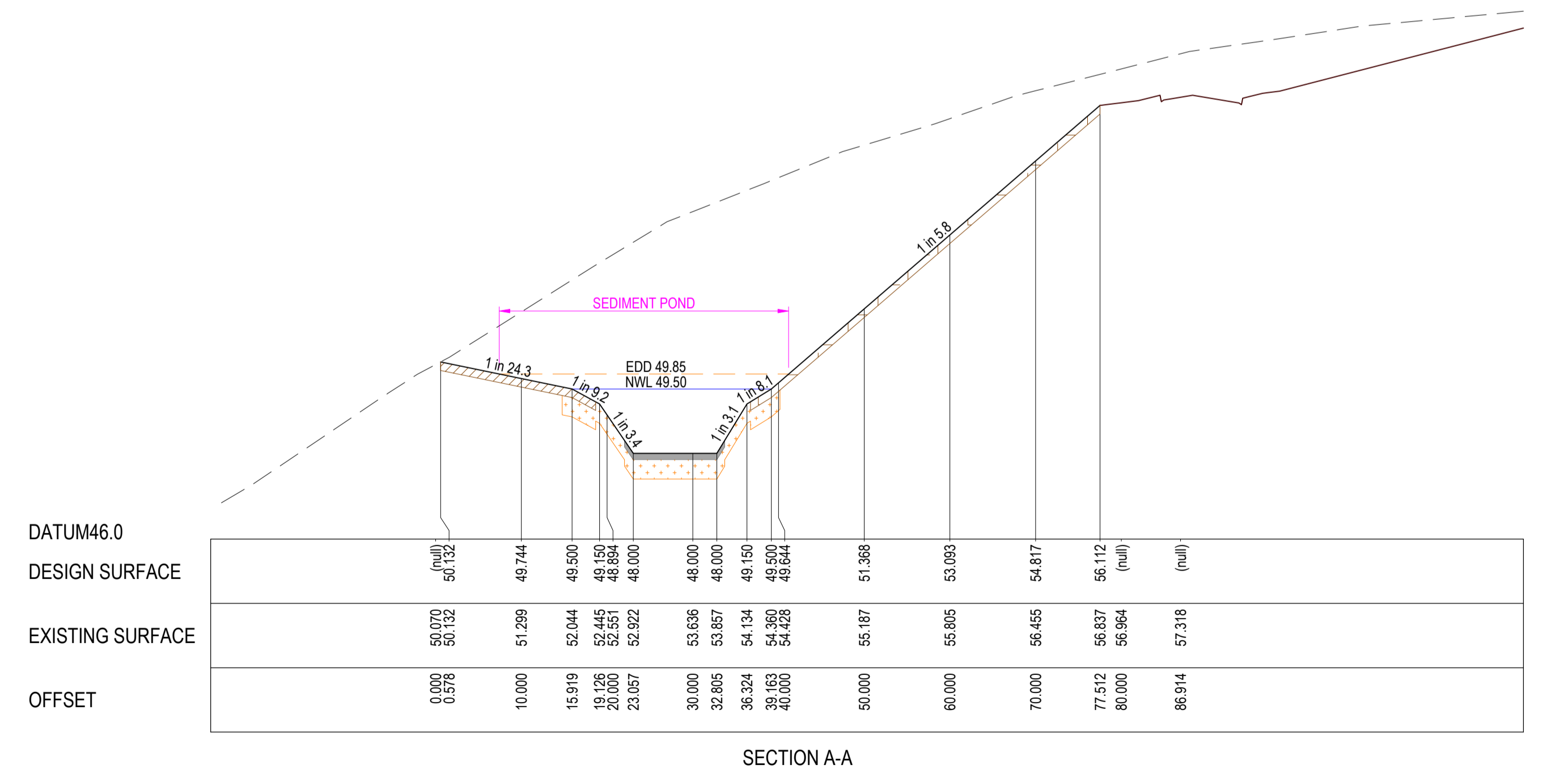
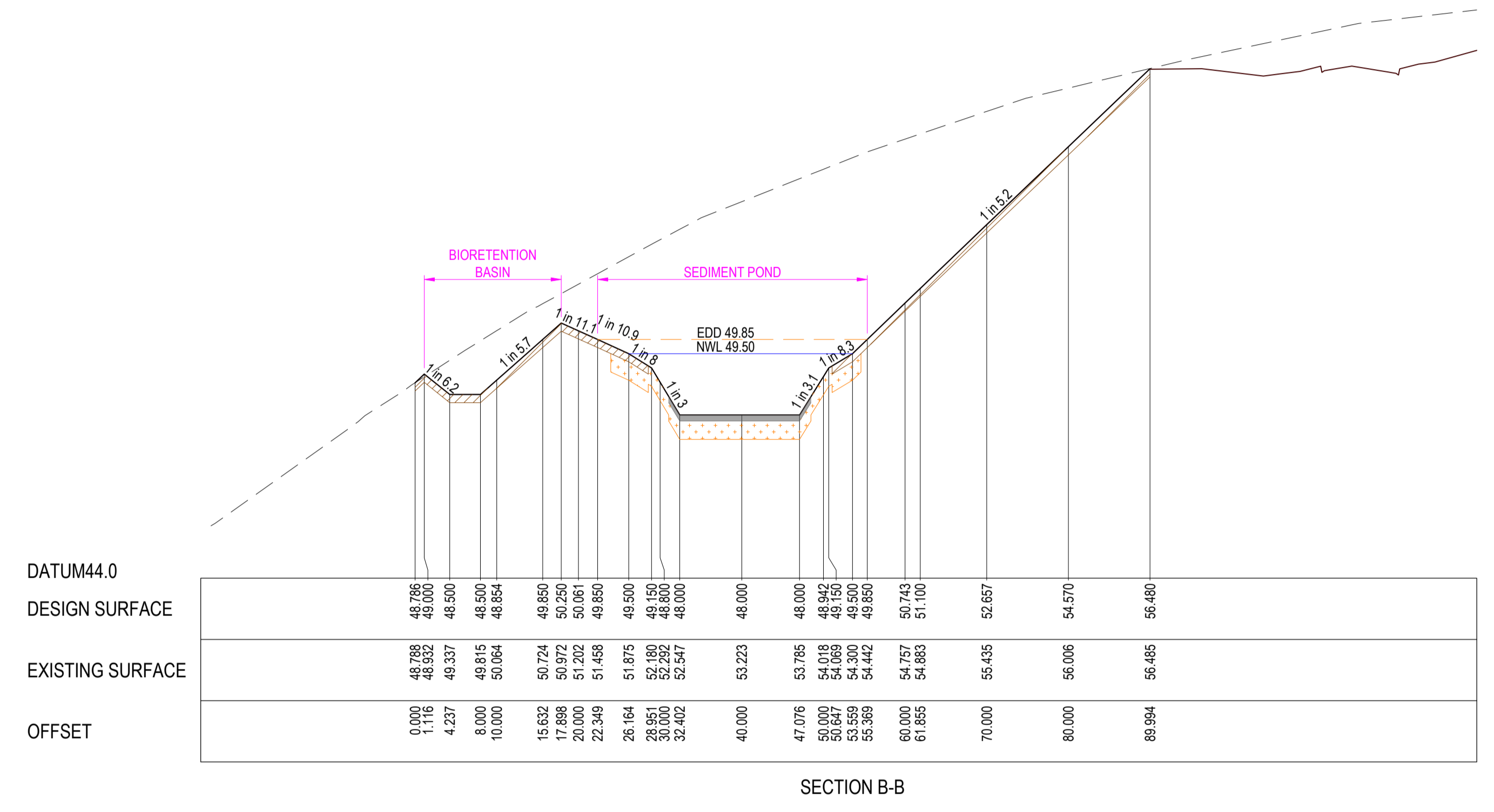
DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F802	F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND

	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)

-  MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
-  MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
-  SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 7251/12/012.



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

CLIENT



Communities Designed for Living

CREO CIVIL



Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

CREAMERY ROAD PSP
ALTERNATIVE SWMS

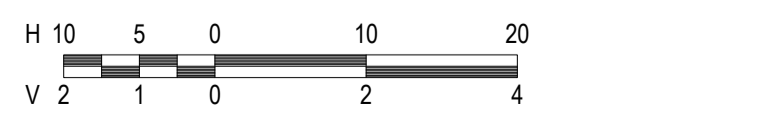
DRAWING TITLE

FUNCTIONAL LAYOUT -
CROSS SECTIONS
SBRB-09 + BIO

STATUS

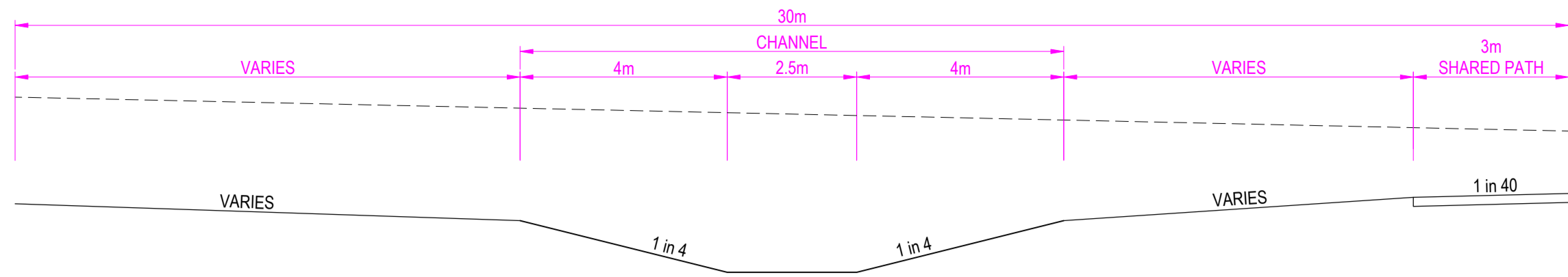
PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:100 (V)

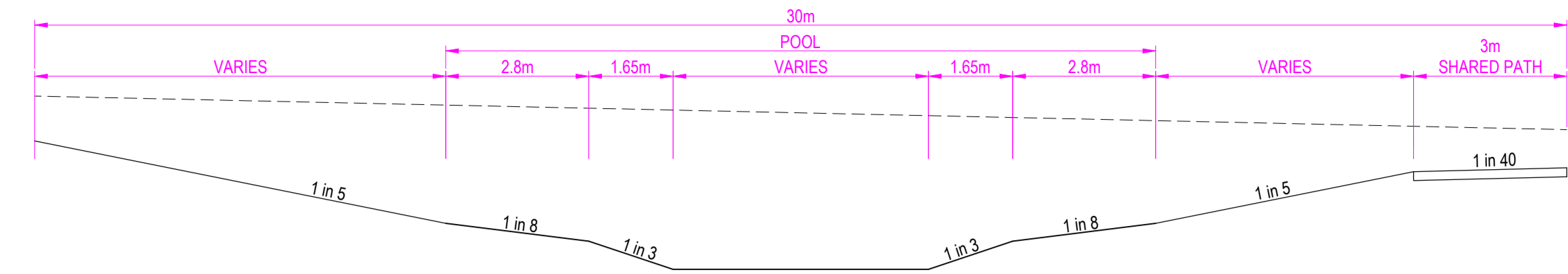


DESIGNED	K.MCKELVIE	PROJECT ENGINEER	M.TROUNCE
DRAWN	K.MCKELVIE	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200426	DRAWING No.	F803
REVISION			F

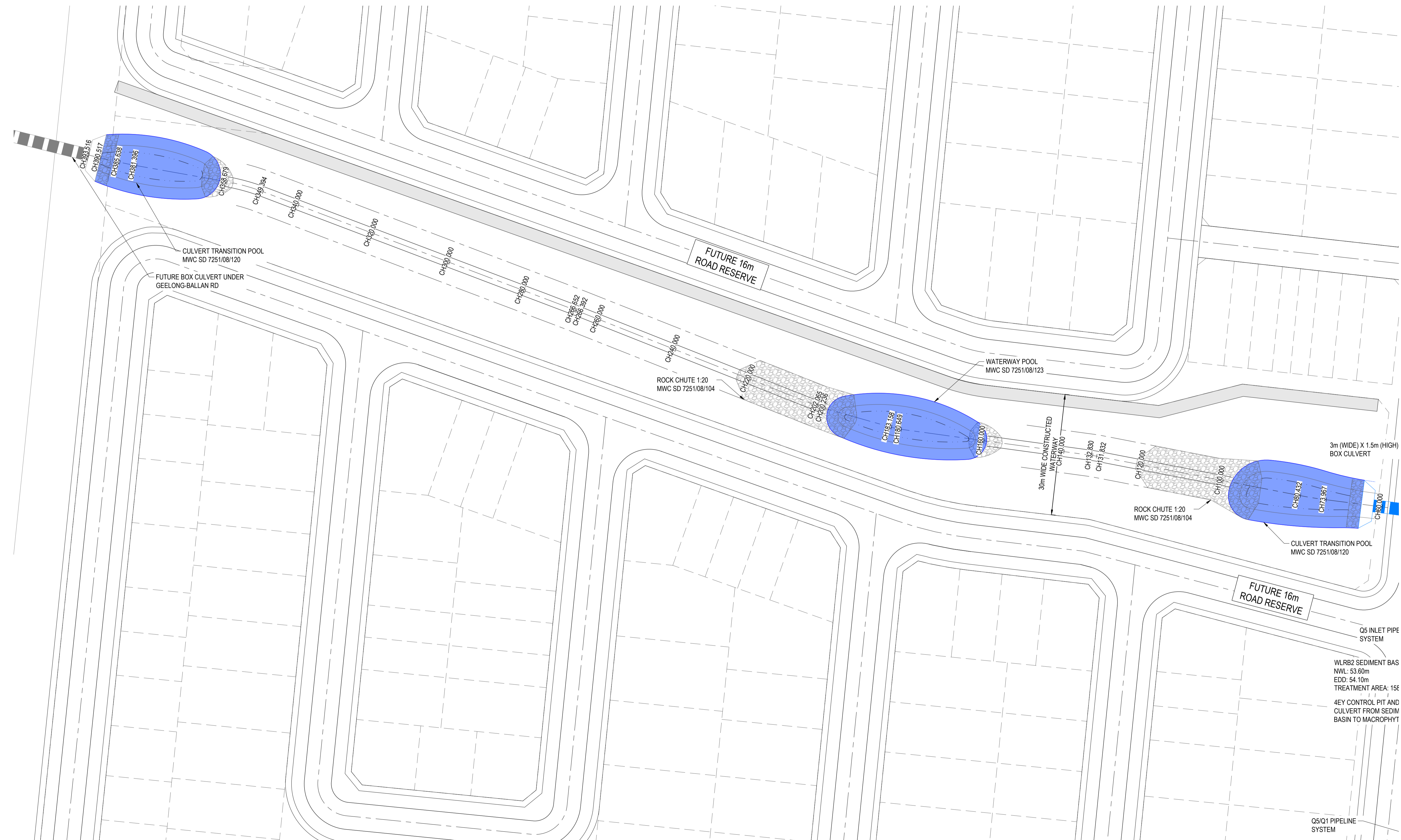
E:\25\ENERGY\TEMP\25\ENERGY\25\ENERGY\SERVER\SERVER\14507861\F3-2004-1450-9072-CHEP\2502\200408-4401-CROSS SECTIONS.DWG



TYPICAL WATERWAY SECTION - 30m
NOT TO SCALE



TYPICAL POOL SECTION - 30m
NOT TO SCALE



LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Bedrock waterway
- Transition pool
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

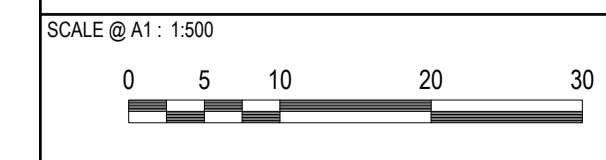
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED	CLIENT
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	 Communities Designed for Living
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE	
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE	



PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE
**FUNCTIONAL LAYOUT -
WW-01 LAYOUT PLAN**

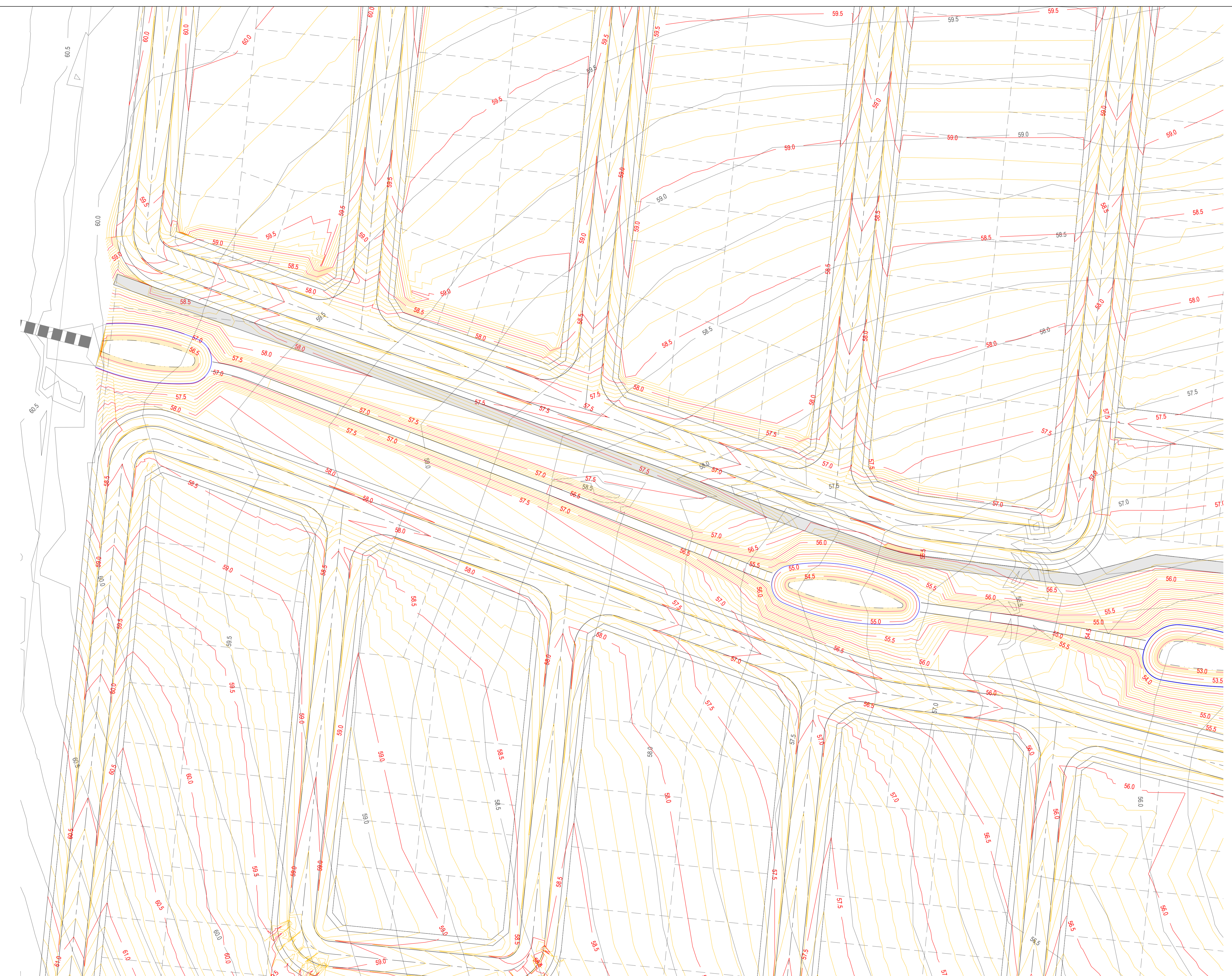
STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**



DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F1000
	REVISION F

LEGEND

- NORMAL TOP WATER LEVEL (NTWL 48.00)
- EXTENDED DETENTION DEPTH (EDD 48.35)
- MINOR CONTOUR (0.100m)
- MAJOR CONTOUR (0.500m)
- EXISTING CONTOURS
- STORMWATER DRAIN & PIT
- - - BATTER



REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

villawood
properties
Communities Designed for Living

creo
CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE
**FUNCTIONAL LAYOUT -
WW-01 CONTOUR PLAN**

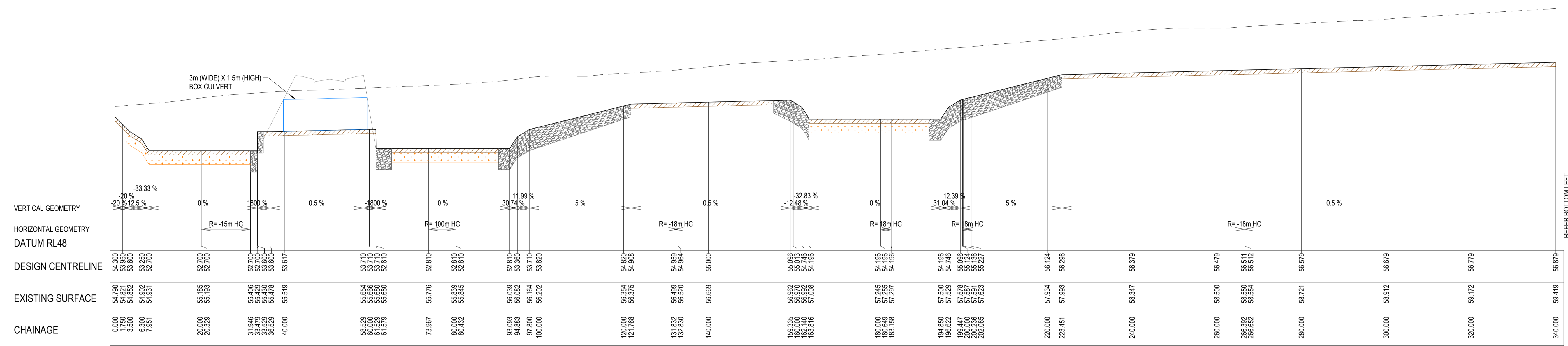
STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

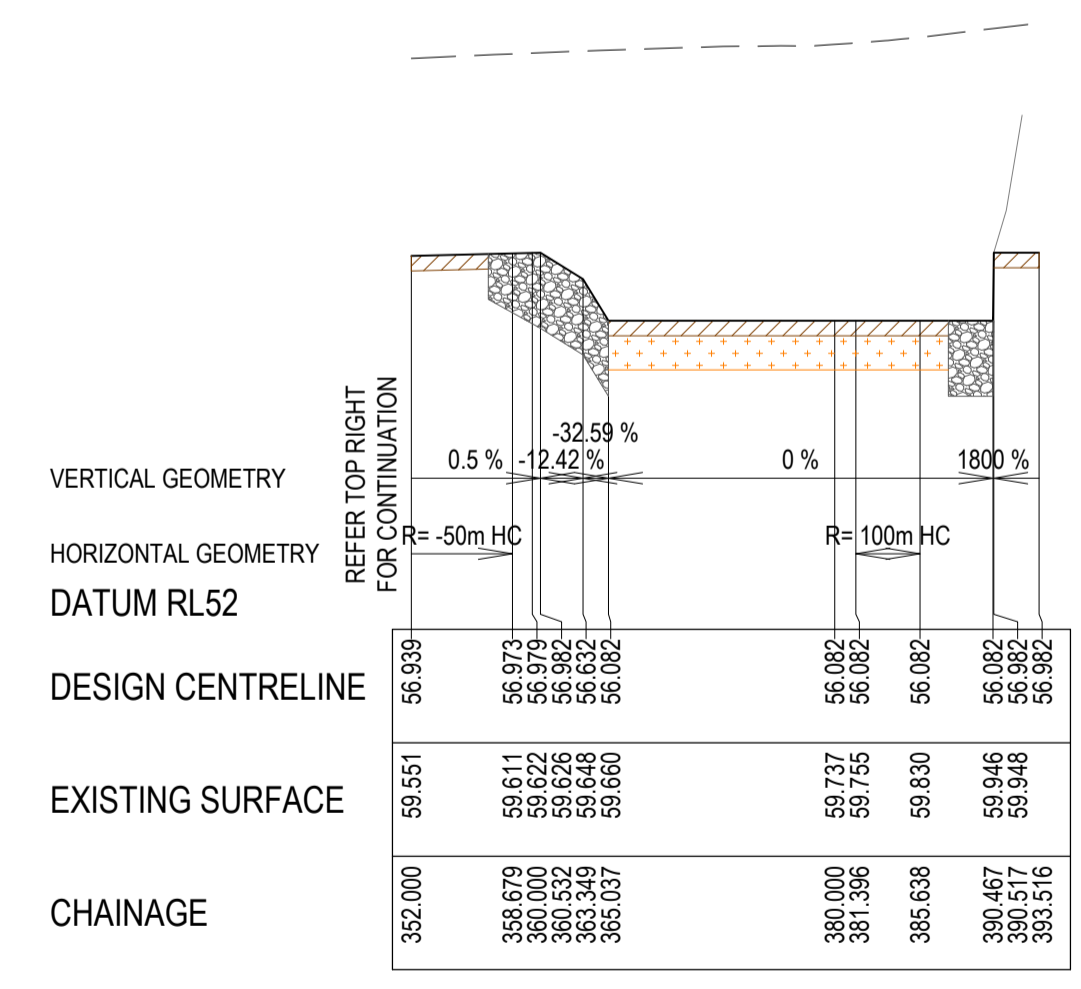
DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F1001
	REVISION F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)



WW-01 LONGITUDINAL SECTION



WW-01 LONGITUDINAL SECTION

	ROCK
	MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
	MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND. MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
	SEDIMENT POND BASE 150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 725/112/012.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

CLIENT

Communities Designed for Living

creo CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE

FUNCTIONAL LAYOUT -
LONGITUDINAL SECTIONS - WW - 01

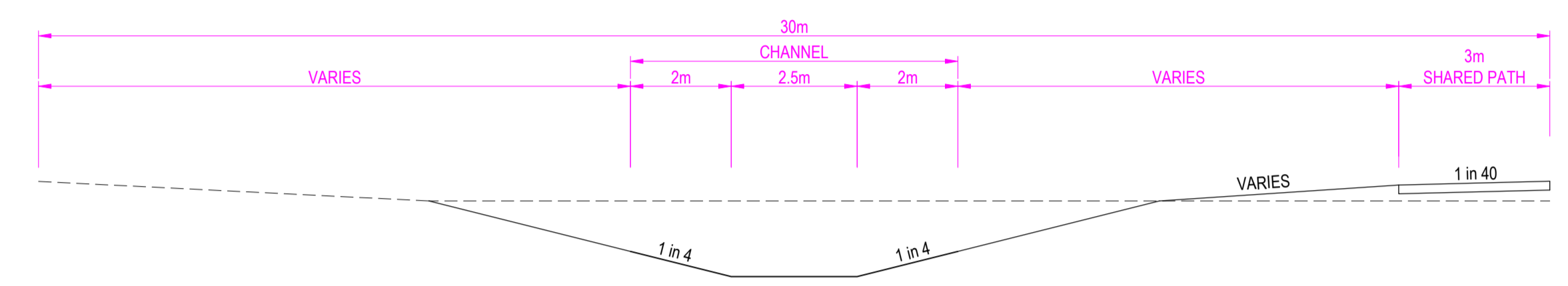
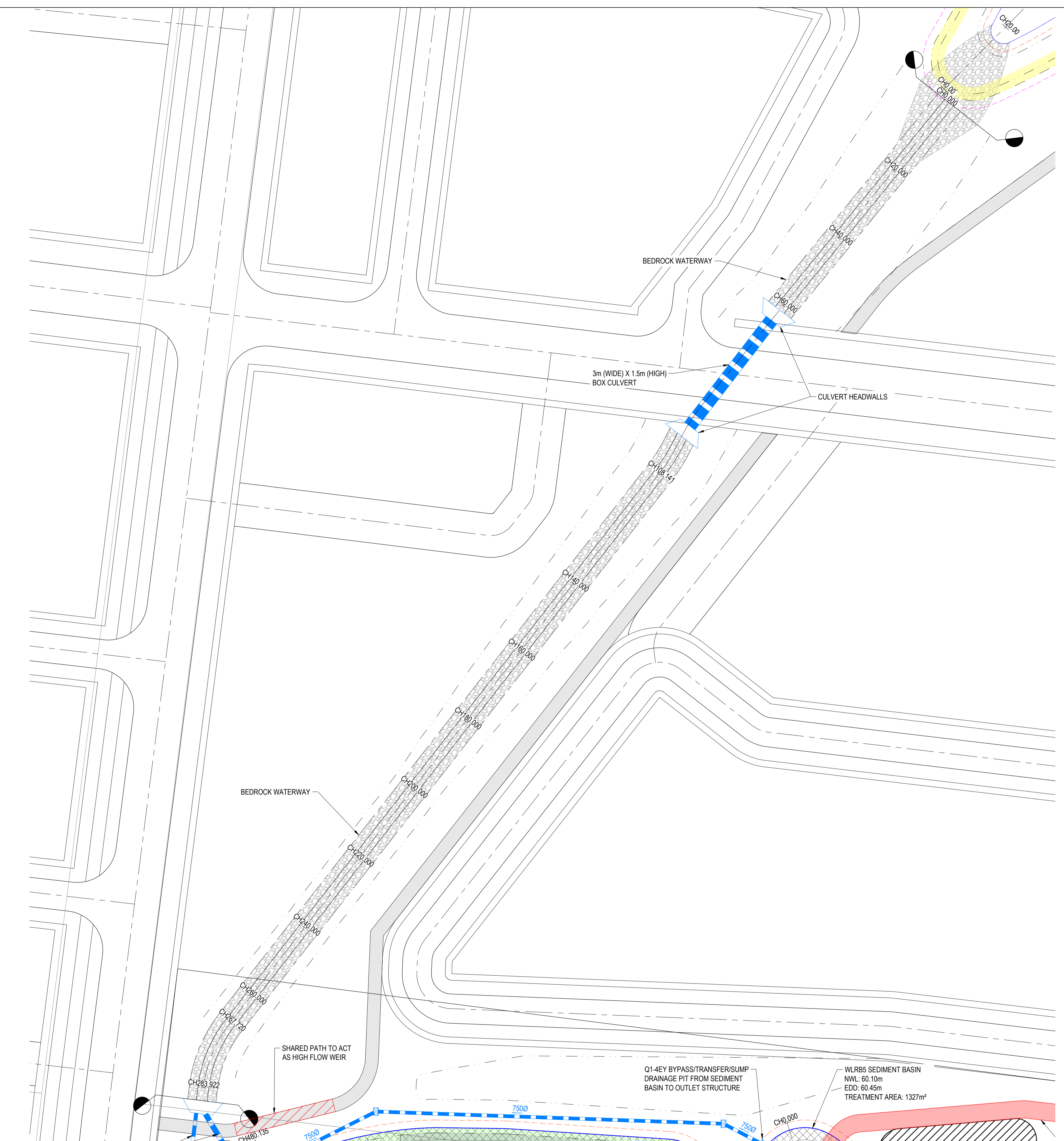
STATUS

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:100 (V)

DESIGNED	K.MCKELVIE	PROJECT ENGINEER	M.TROUNCE
DRAWN	K.MCKELVIE	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200426	DRAWING No.	F1002
		REVISION	F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



TYPICAL WATERWAY SECTION - 30m
NOT TO SCALE

LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Bedrock waterway
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

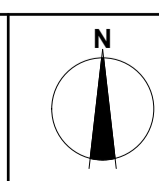
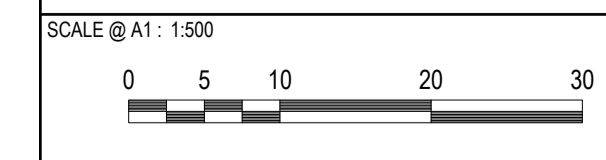
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE



PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE
**FUNCTIONAL LAYOUT -
WW-02 LAYOUT PLAN**

STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**



DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F1100
	REVISION F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



LEGEND	
	NORMAL TOP WATER LEVEL (NTWL 48.00)
	EXTENDED DETENTION DEPTH (EDD 48.35)
	MINOR CONTOUR (0.100m)
	MAJOR CONTOUR (0.500m)
	EXISTING CONTOURS
	STORMWATER DRAIN & PIT
	BATTER

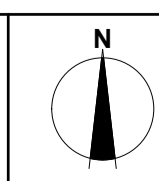
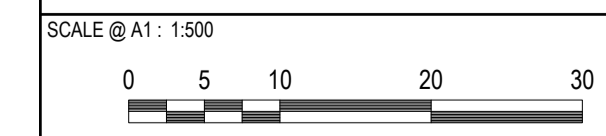
REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE



PROJECT
**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE
**FUNCTIONAL LAYOUT -
WW-02 CONTOUR PLAN**

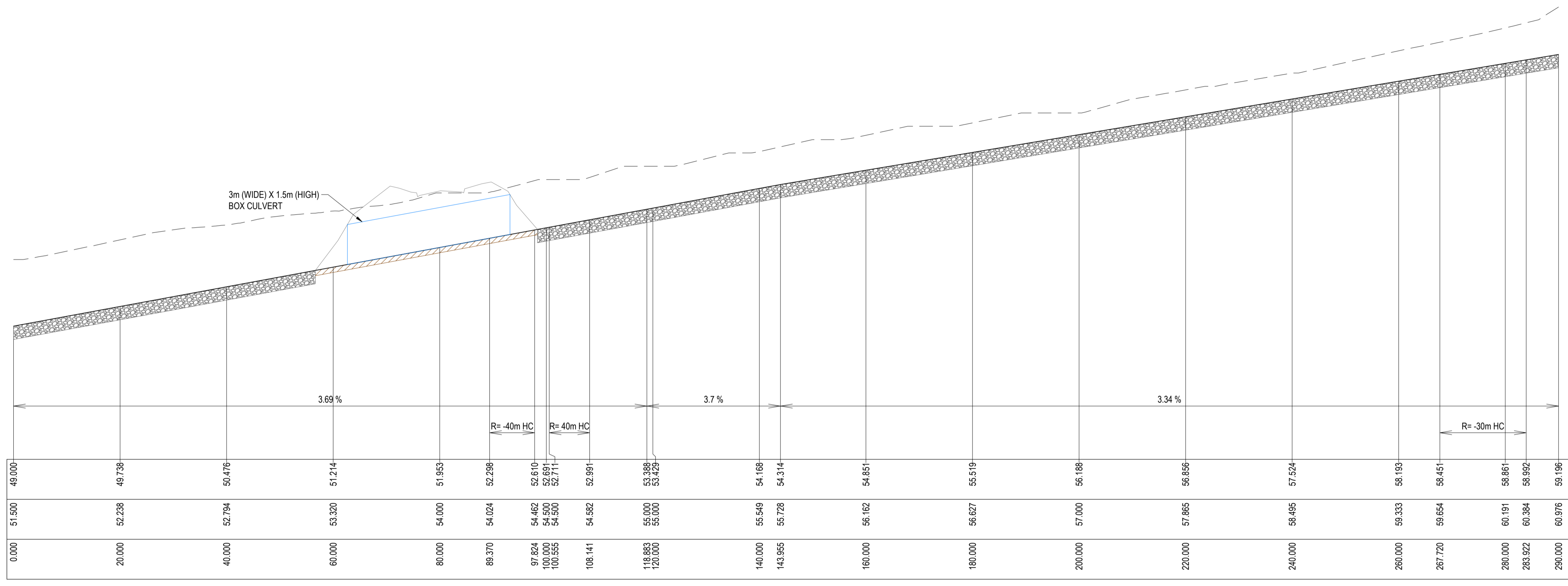
STATUS
**PRELIMINARY
NOT FOR CONSTRUCTION**



DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F1101
	REVISION F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

LEGEND	
	EXISTING SURFACE
	DESIGN LINE
	NTWL (RL53.5)
	EDD (RL53.85)
	1% AEP (RL55)



WW-02 LONGITUDINAL SECTION

- ROCK
- MINIMUM 450mm COMPACTED DEPTH CLAY LINER TO BE PLACED AND COMPACTED IN THREE EVEN LAYERS TO A MINIMUM STANDARD DRY DENSITY RATIO OF 95% WITH A PLACEMENT MOISTURE OF BETWEEN 95% AND 115% OF STANDARD OPTIMUM MOISTURE CONTENT.
- MIN 200mm DEPTH NON-DISPERSIVE TOPSOIL WITHIN WETLAND.
MINIMUM 300mm DEPTH NON-DISPERSIVE TOPSOIL TO BE PLACED ON BATTERS
- SEDIMENT POND BASE
150mm REINFORCED CONCRETE IN ACCORDANCE WITH MWC SD 725/112/012.

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
B	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	06/12/24	ISSUED FOR INFORMATION	K.MCKELVIE	D.COOPER	M.TROUNCE

villawood properties
Communities Designed for Living

creo CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT
CREAMERY ROAD PSP ALTERNATIVE SWMS

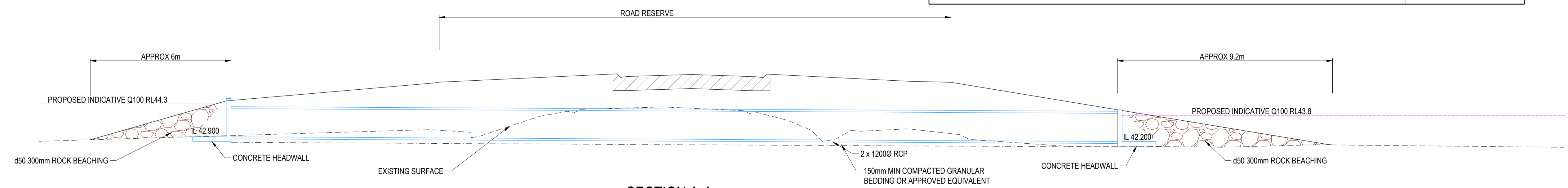
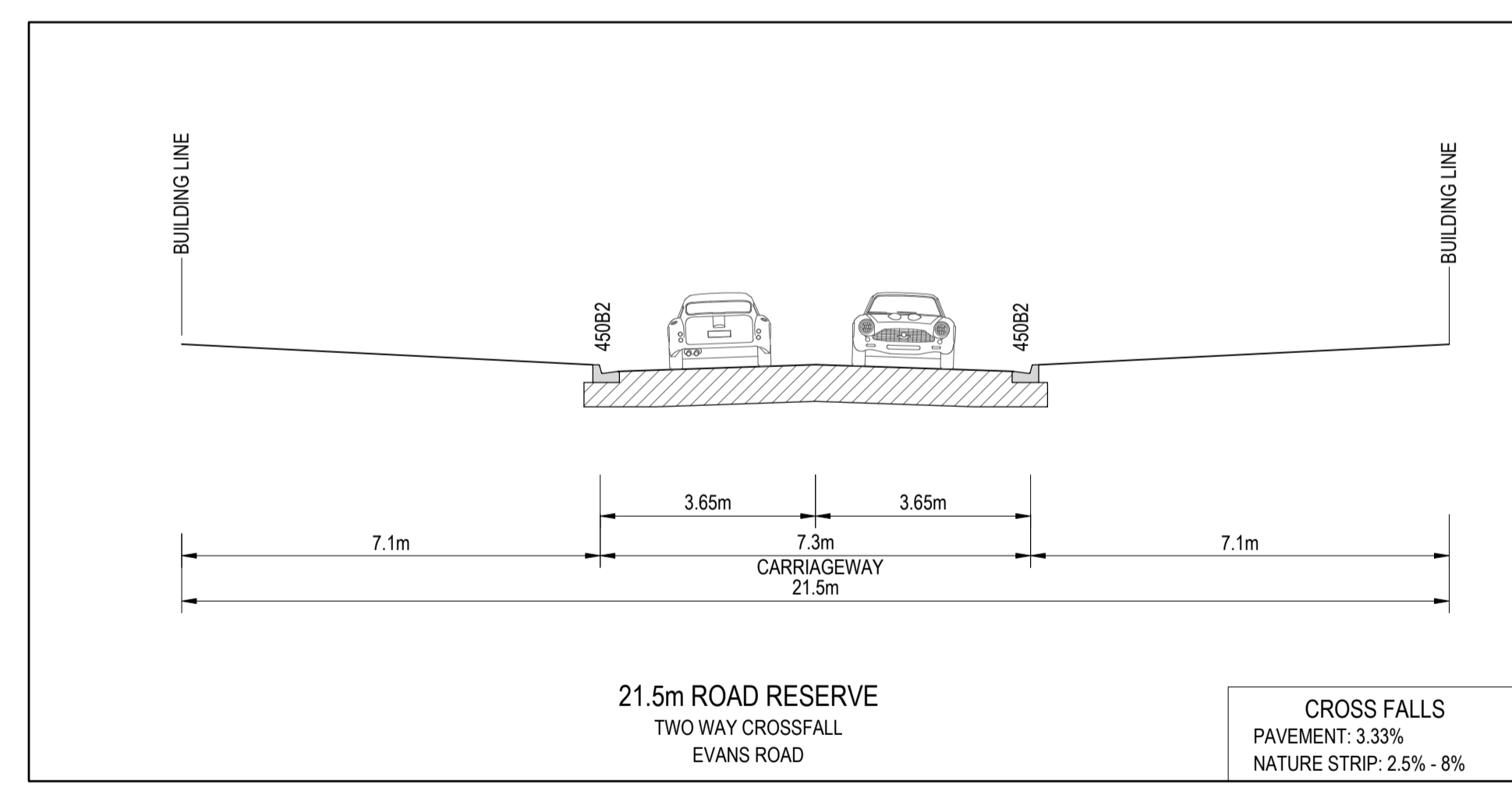
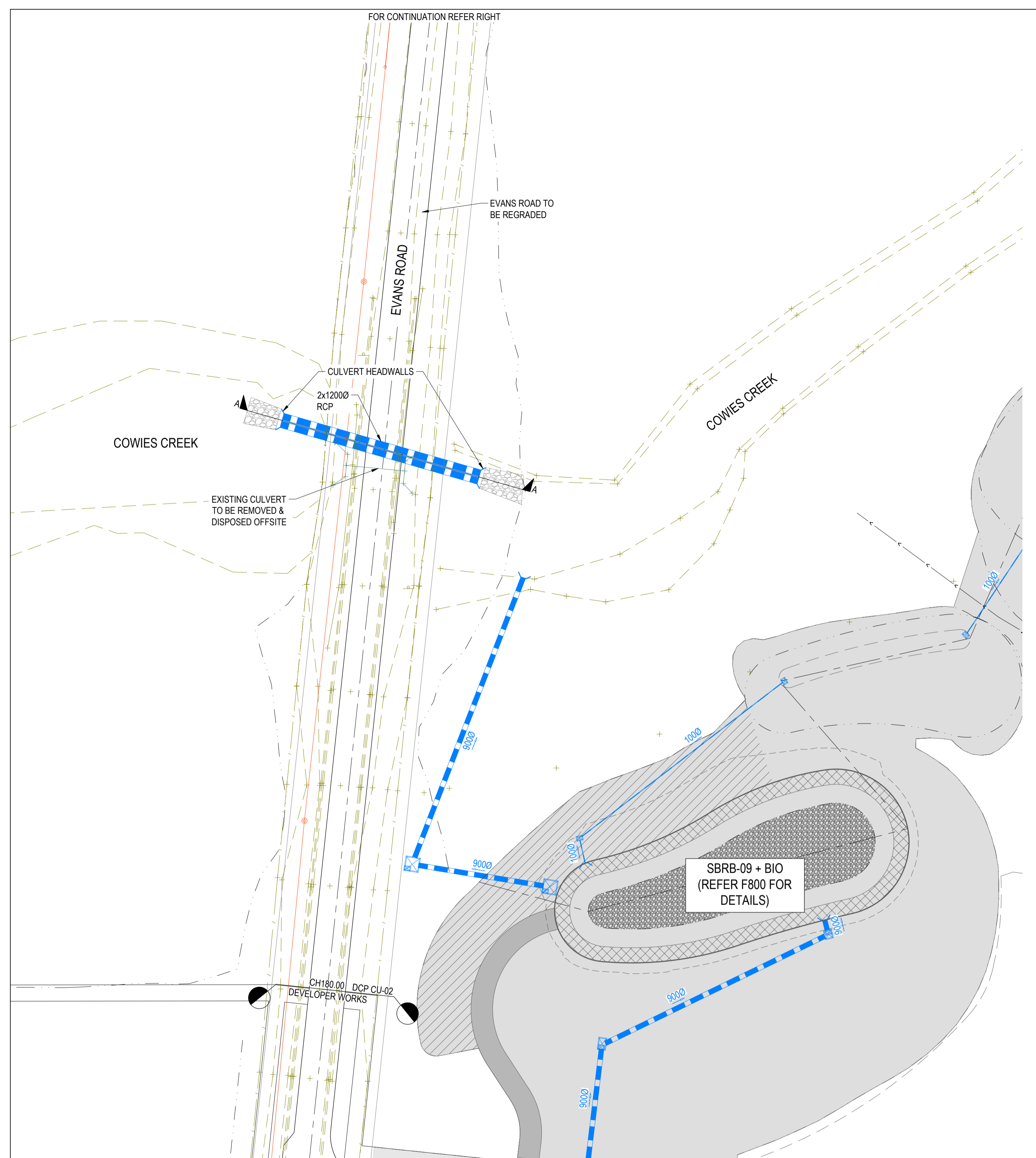
DRAWING TITLE
FUNCTIONAL LAYOUT - LONGITUDINAL SECTIONS - WW-02

STATUS
PRELIMINARY NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:100 (V)

DESIGNED K.MCKELVIE	PROJECT ENGINEER M.TROUNCE
DRAWN K.MCKELVIE	PROJECT MANAGER M.TROUNCE
PROJECT No. 200426	DRAWING No. F1102
	REVISION F

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



LEGEND

- Stormwater Drain and Pit
- Future Stormwater Drain and Pit
- Existing Stormwater Drain and Pit
- Limit of Works
- Safety Bench (1 in 8 max, minimum 2.8m width)
- Concrete Path
- 3m Wide Runout Area for Mowing
- Sediment Basin Base
- Access Track / Ramp
- Sediment Drying Zone
- Trees to be retained
- Bedrock waterway
- Normal Water Level (NTWL 48)
- Extended Detention Depth (EDD 48.35)
- Overflow Level (RL13.75)
- 1% AEP Level (RL49.26)
- Batter

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION			
E	24/07/25	ISSUED FOR INFORMATION			
A	27/02/25	ISSUED FOR INFORMATION			

CLIENT

Communities Designed for Living

PROJECT

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

DRAWING TITLE

**CREAMERY ROAD PSP
ALTERNATIVE SWMS**

DRAWING TITLE

**FUNCTIONAL LAYOUT -
CU-02 LAYOUT PLAN**

STATUS

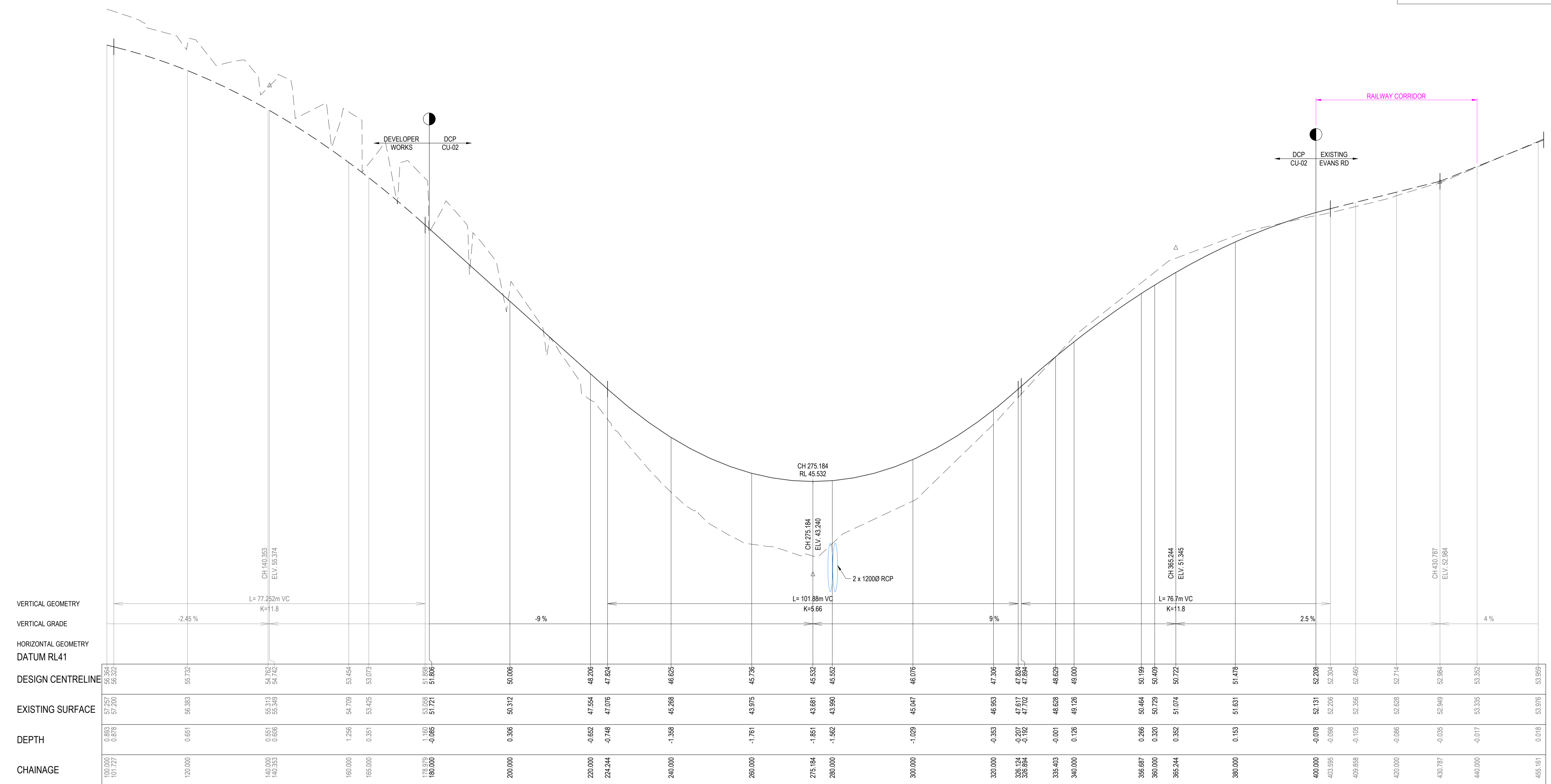
**PRELIMINARY
NOT FOR CONSTRUCTION**

SCALE @ A1 : 1:500

DESIGNED	PROJECT ENGINEER	
K.MCKELVIE	M.TROUNCE	
DRAWN	PROJECT MANAGER	
K.MCKELVIE	M.TROUNCE	
PROJECT No.	DRAWING No.	REVISION
200426	F1200	F

LEGEND	
	EXISTING SURFACE
	DESIGN LINE

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL



EVANS ROAD LONGITUDINAL SECTION

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
F	23/09/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
E	24/07/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE
A	27/02/25	ISSUED FOR INFORMATION	K.MCKELVIE	M.TROUNCE	M.TROUNCE

CLIENT

Communities Designed for Living

creo CIVIL

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PROJECT

CREAMERY ROAD PSP
ALTERNATIVE SWMS

DRAWING TITLE

FUNCTIONAL LAYOUT -
LONGITUDINAL SECTIONS - EVANS ROAD

STATUS

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1: 1:500 (H) 1:50 (V)

DESIGNED	K.MCKELVIE	PROJECT ENGINEER	M.TROUNCE
DRAWN	K.MCKELVIE	PROJECT MANAGER	M.TROUNCE
PROJECT No.	200426	DRAWING No.	F1202
		REVISION	F