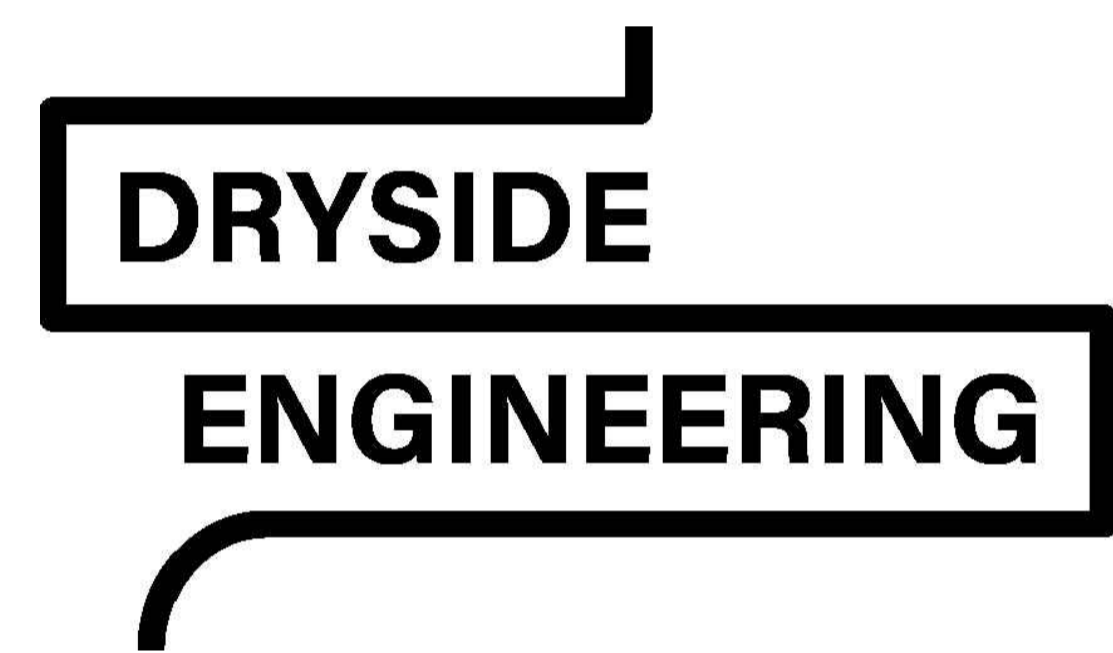


DATE PLOTTED: 8 November 2023 4:48 PM BY: AARON WARD

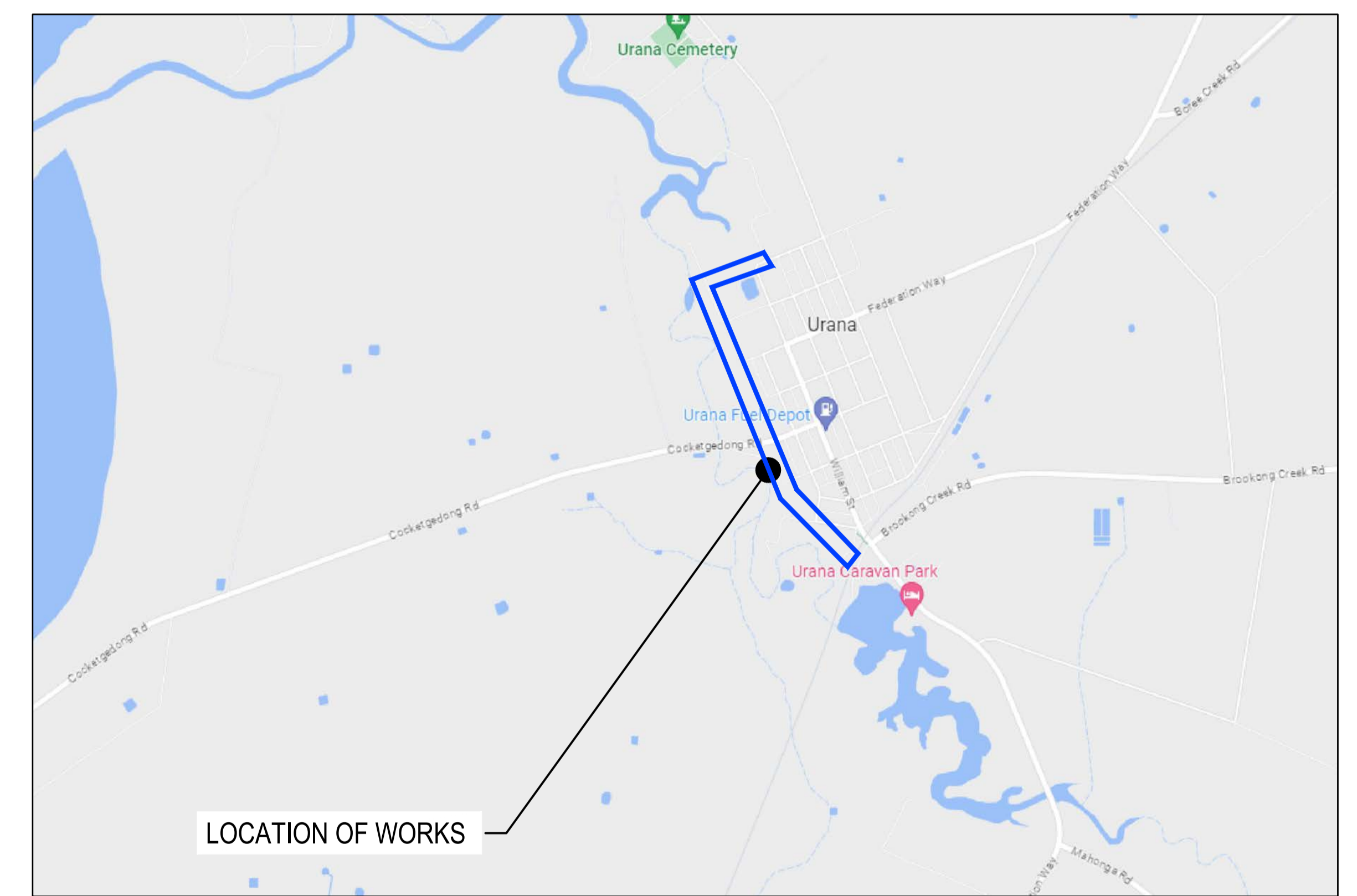
URANA LEVEE UPGRADE WORKS

BROUGONG STREET, URANA NSW

FOR FEDERATION COUNCIL



DRAWING REGISTER	
SHEET NUMBER	SHEET TITLE
0001	FACESHEET, LOCALITY PLAN AND DRAWING REGISTER
0100	OVERALL LAYOUT PLAN
1000	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 1 OF 7
1001	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 2 OF 7
1002	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 3 OF 7
1003	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 4 OF 7
1004	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 5 OF 7
1005	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 6 OF 7
1006	LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION - SHEET 7 OF 7
1100	TYPICAL DETAILS - SHEET 1 OF 3
1101	TYPICAL DETAILS - SHEET 2 OF 3
1102	TYPICAL DETAILS - SHEET 3 OF 3
1200	LEVEE CROSS SECTIONS - SHEET 1 OF 8
1201	LEVEE CROSS SECTIONS - SHEET 2 OF 8
1202	LEVEE CROSS SECTIONS - SHEET 3 OF 8
1203	LEVEE CROSS SECTIONS - SHEET 4 OF 8
1204	LEVEE CROSS SECTIONS - SHEET 5 OF 8
1205	LEVEE CROSS SECTIONS - SHEET 6 OF 8
1206	LEVEE CROSS SECTIONS - SHEET 7 OF 8
1207	LEVEE CROSS SECTIONS - SHEET 8 OF 8



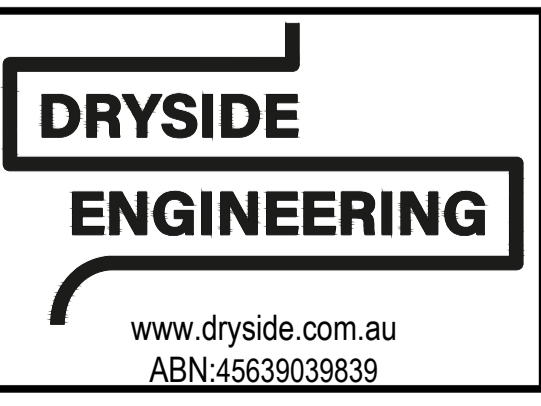
LOCALITY PLAN
NOT TO SCALE
GOOGLE IMAGE (ACCESSED ON 26/09/2023)

PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-

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FEDERATION COUNCIL
URANA LEVEE UPGRADE WORKS
BROUGONG STREET
URANA, NSW 2645
PRELIMINARY DESIGN
FACESHEET, LOCALITY PLAN
AND DRAWING REGISTER

DRAWN	DATE	SCALE	DATUM
A.WARD	26/09/2023	AS SHOWN	MAHD
DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/09/2023	GD2020	A1
DSE23029-0001			2

XREFs: CAD File: C:\Users\aron\OneDrive\Engineering\Dropbox\Dryside\1_Urana_Levee\ENGINEERING\2 Drawings\DSE23029-0001.dwg



LEGEND

- EXISTING SURVEY
- EXISTING CONTOURS MAJOR & LABEL MINOR & LABEL
- PROPOSED CONTOURS MAJOR & LABEL MINOR LABEL
- PROPOSED FENCE AND GATE
- PROPOSED EASEMENT
- PROPOSED LEVEE WITH TOPSOIL BENCH
- PROPOSED LEVEE WITH GRAVEL BENCH
- PROPOSED SWALE DRAIN
- PROPOSED DRAINAGE PIPE AND HEADWALLS
- EXISTING DRAINAGE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER MAIN
- EXISTING OHEAD ELECTRICITY
- EXISTING SEWER
- EXISTING SEWER RISING MAIN
- PROPOSED ASPHALT ROADWAY
- PROPOSED GRAVEL ROADWAY AND SHOULDERS

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

FLOOD STUDY
DESIGN BASED OFF WMA WATER REPORT FOR FEDERATION COUNCIL
- FEDERATION VILLAGES FLOODPLAIN RISK MANAGEMENT STUDY AND PLAN - 118048, APPENDIX E, MARCH 2022



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North Arrow
SCALE 1:2500 @A1

LIDAR SURFACE
EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

PRELIMINARY DESIGN
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FEDERATION COUNCIL	
URANA LEVEE UPGRADE WORKS	
BROUGONG STREET	
URANA, NSW 2645	
PRELIMINARY DESIGN	
OVERALL LAYOUT PLAN	

DRAWN	A.WARD	DATE	26/09/2023	SCALE	AS SHOWN	DATUM	MAHD
DESIGNED	A.WARD	DATE	26/09/2023	PROJECTION	GD2020	SIZE	A1
DSE23029-0100							2

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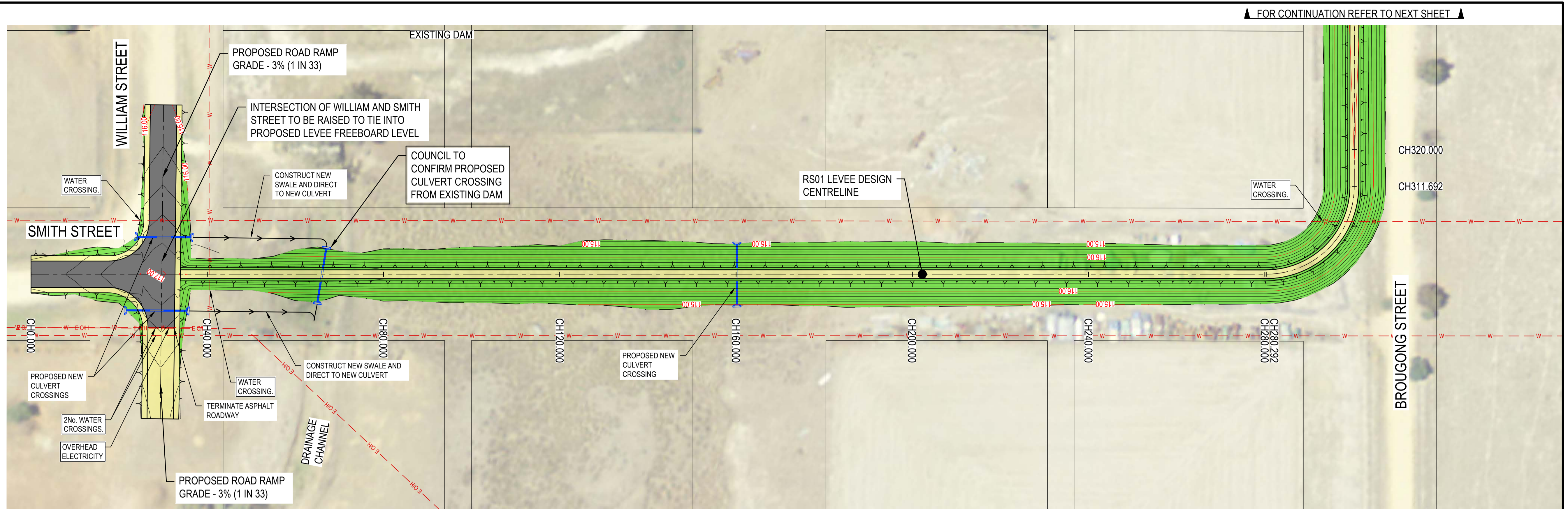
REV	DATE	DESCRIPTION	DES	VERIF	APPR
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-

DATE PLOTTED: 8 November 2023 4:49 PM BY: AARON WARD

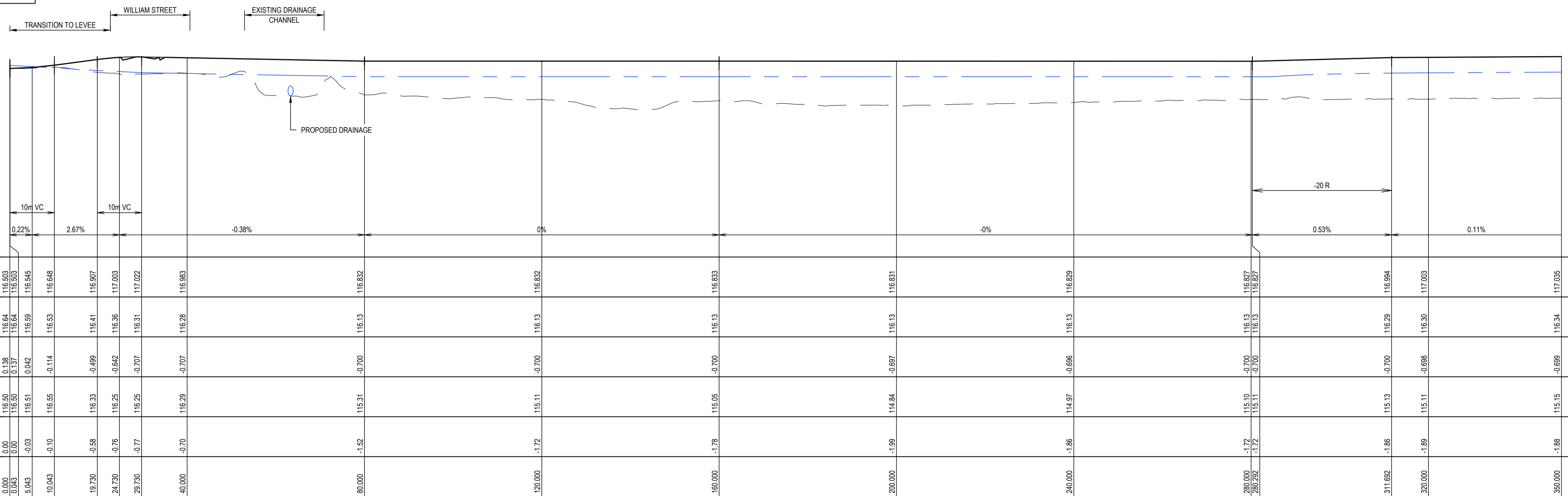
LEGEND

- EXISTING SURVEY
- EXISTING CONTOURS MAJOR & LABEL
- EXISTING CONTOURS MINOR & LABEL
- PROPOSED CONTOURS MAJOR & LABEL
- PROPOSED CONTOURS MINOR LABEL
- PROPOSED FENCE AND GATE
- PROPOSED EASEMENT
- PROPOSED LEVEE WITH TOPSOIL BENCH
- PROPOSED LEVEE WITH GRAVEL BENCH
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LAYOUT PLAN
SCALE 1:500m

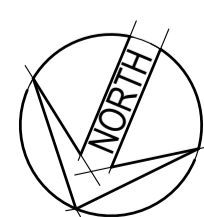
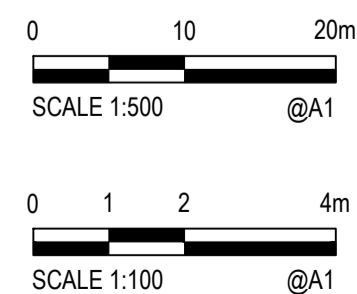


RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE
SCALE H 1:500m V 1:100m

PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

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REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



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FEDERATION COUNCIL

URANA LEVEE UPGRADE WORKS
BROUGONG STREET
URANA, NSW 2645
PRELIMINARY DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 1 OF 7

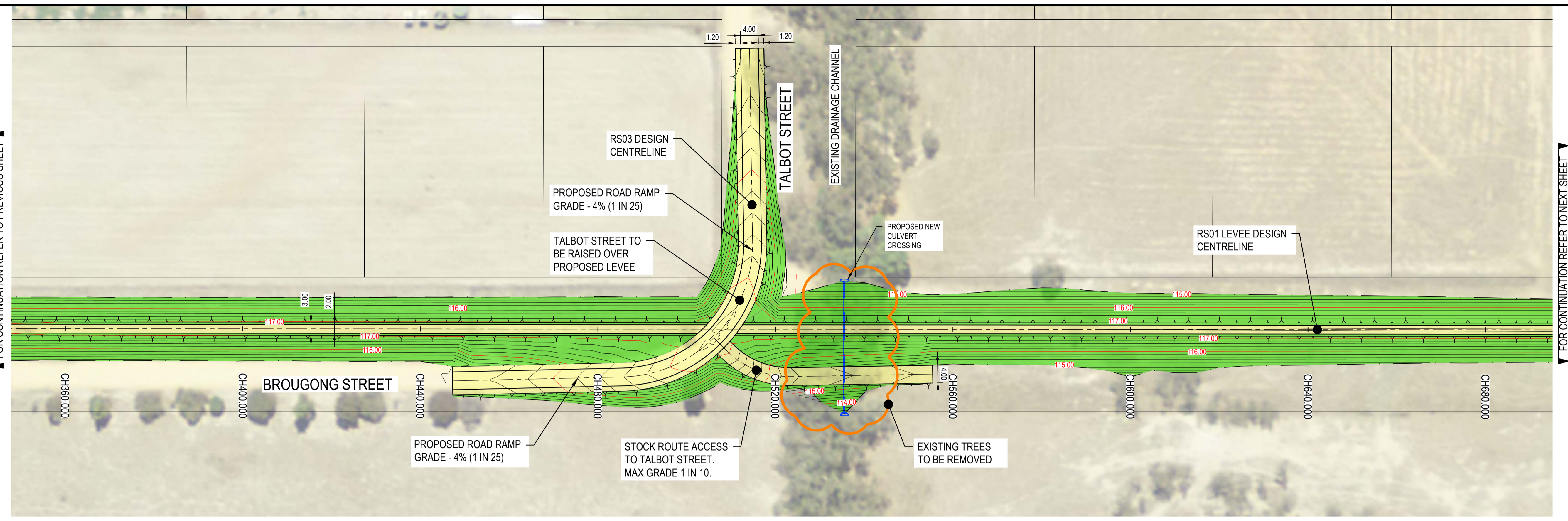
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DESIGNED	A.WARD	DATE	26/09/2023	PROJECTION	GD2020	SHEET SIZE	A1
DSE23029-1000							2

DATE PLOTTED: 8 November 2023 4:49 PM BY: AARON WARD
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LEGEND

	EXISTING SURVEY
	EXISTING CONTOURS MAJOR & LABEL
	EXISTING CONTOURS MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL
	PROPOSED CONTOURS MINOR & LABEL
	PROPOSED FENCE AND GATE
	PROPOSED EASEMENT
	PROPOSED LEVEE WITH TOPSOIL BENCH
	PROPOSED LEVEE WITH GRAVEL BENCH
	PROPOSED SWALE DRAIN
	PROPOSED DRAINAGE PIPE AND HEAD WALLS
	EXISTING DRAINAGE
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING OVERHEAD ELECTRICITY
	EXISTING SEWER
	EXISTING SEWER RISING MAIN
	PROPOSED ASPHALT ROADWAY
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LAYOUT PLAN
 SCALE 1:500m

DESIGN GEOMETRY OF CENTRELINE										
VERTICAL CURVES										
DESIGN GRADING OF CENTRELINE	0.11%	0.08%		0.07%				0.01%		0.02%
DATUM RL 107.00										
DESIGN LEVEE CENTRELINE	117.035	117.046	117.078	117.110	117.139	117.168	117.196	117.201	117.205	117.211
1% AEP PROFILE AT CENTRELINE	116.34	116.35	116.38	116.41	116.44	116.46	116.50	116.50	116.51	116.51
FREEBOARD DEPTH	-0.689	-0.700	-0.688	-0.700	-0.703	-0.708	-0.700	-0.696	-0.689	-0.701
EXISTING SURFACE PROFILE AT CENTRELINE	115.15	115.17	115.22	115.22	115.19	115.25	115.05	114.80	115.08	115.30
DEPTH TO EXISTING SURFACE	-1.88	-1.88	-1.86	-1.89	-1.95	-1.92	-2.15	-2.40	-2.13	-1.91
CHAINAGE	350.000	360.000	400.000	440.000	480.000	520.000	560.000	600.000	640.000	680.000

RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE
 SCALE H 1:500m V 1:100m

PRELIMINARY DESIGN
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-

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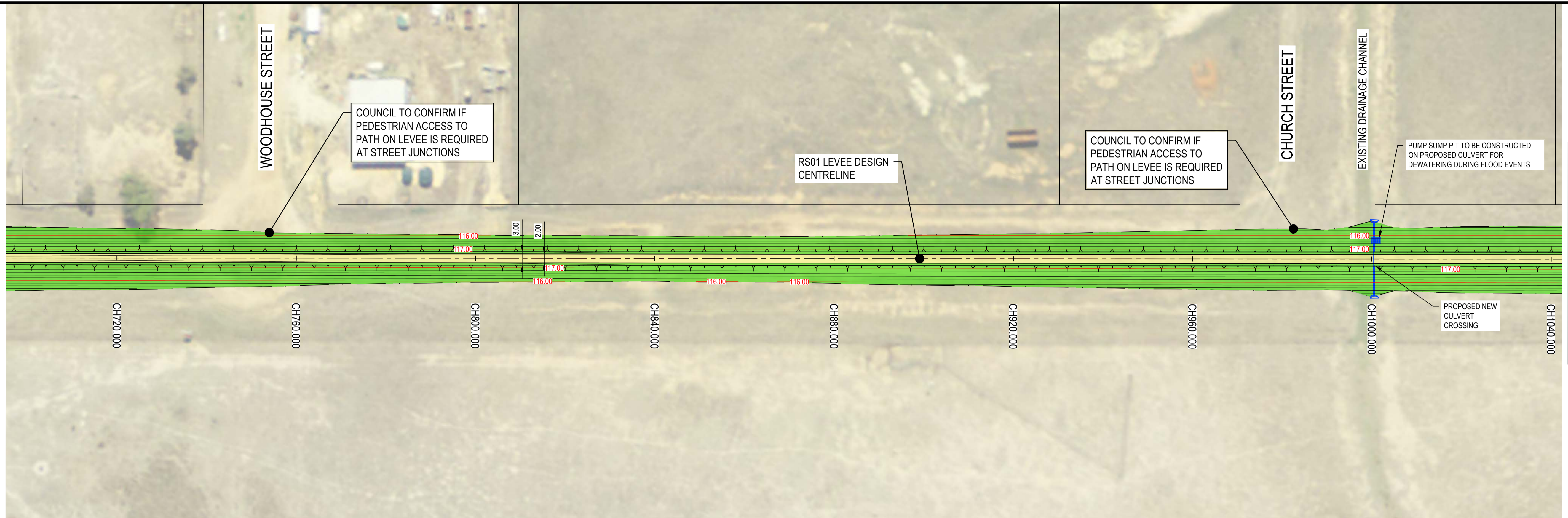
FEDERATION COUNCIL
 URANA LEVEE UPGRADE WORKS
 BROUGONG STREET
 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
 SHEET 2 OF 7

DRAWN	DATE	SCALE	DATUM
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DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/09/2023	GD2020	A1
DSE23029-1001			2

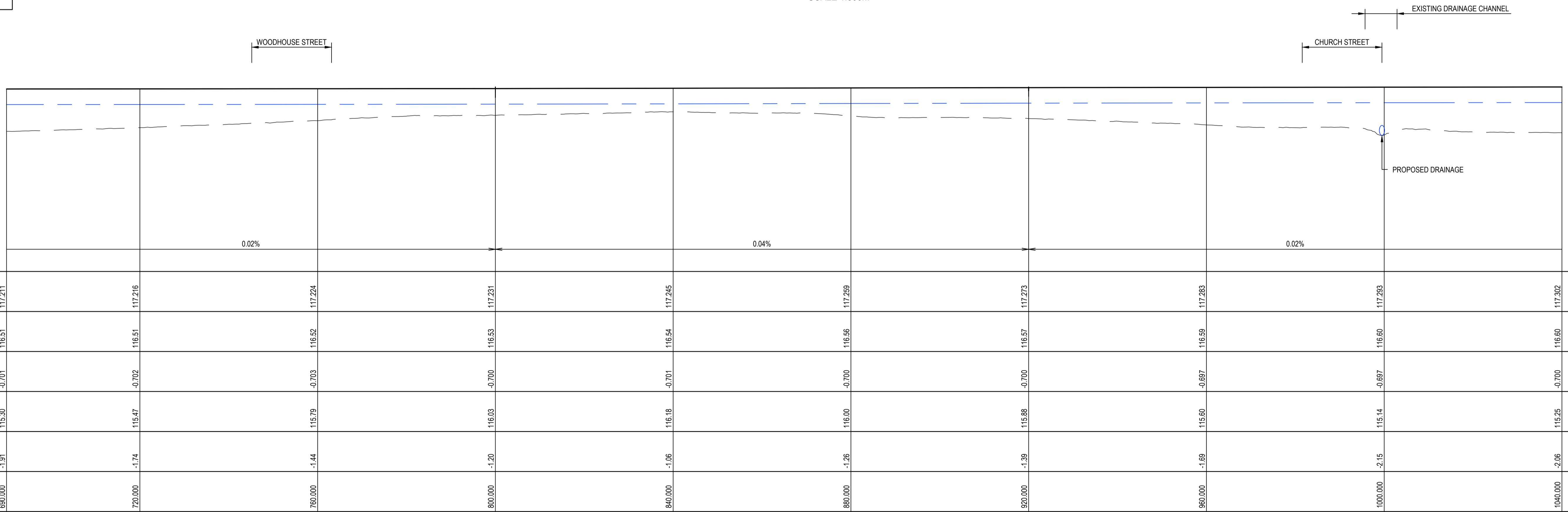
LEGEND

	EXISTING SURVEY
	EXISTING CONTOURS MAJOR & LABEL
	EXISTING CONTOURS MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL
	PROPOSED CONTOURS MINOR & LABEL
	PROPOSED FENCE AND GATE
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	PROPOSED LEVEE WITH GRAVEL BENCH
	PROPOSED SWALE DRAIN
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	EXISTING DRAINAGE
	EXISTING TELECOMMUNICATIONS
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	EXISTING OVERHEAD ELECTRICITY
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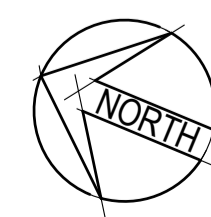
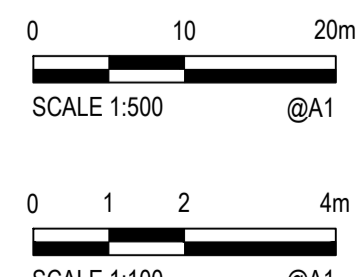
LAYOUT PLAN
SCALE 1:500m



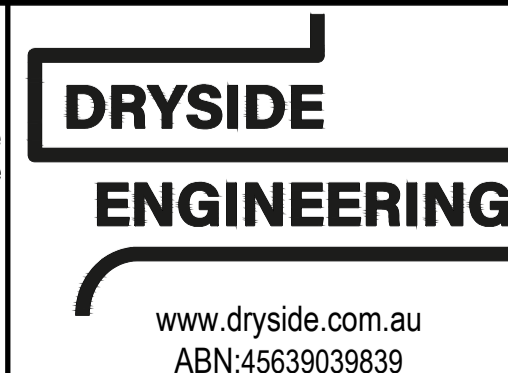
RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE
SCALE H 1:500m V 1:100m

PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	DES	VER	APP
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



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FEDERATION COUNCIL

URANA LEVEE UPGRADE WORKS
BROUGONG STREET
URANA, NSW 2645
PRELIMINARY DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 3 OF 7

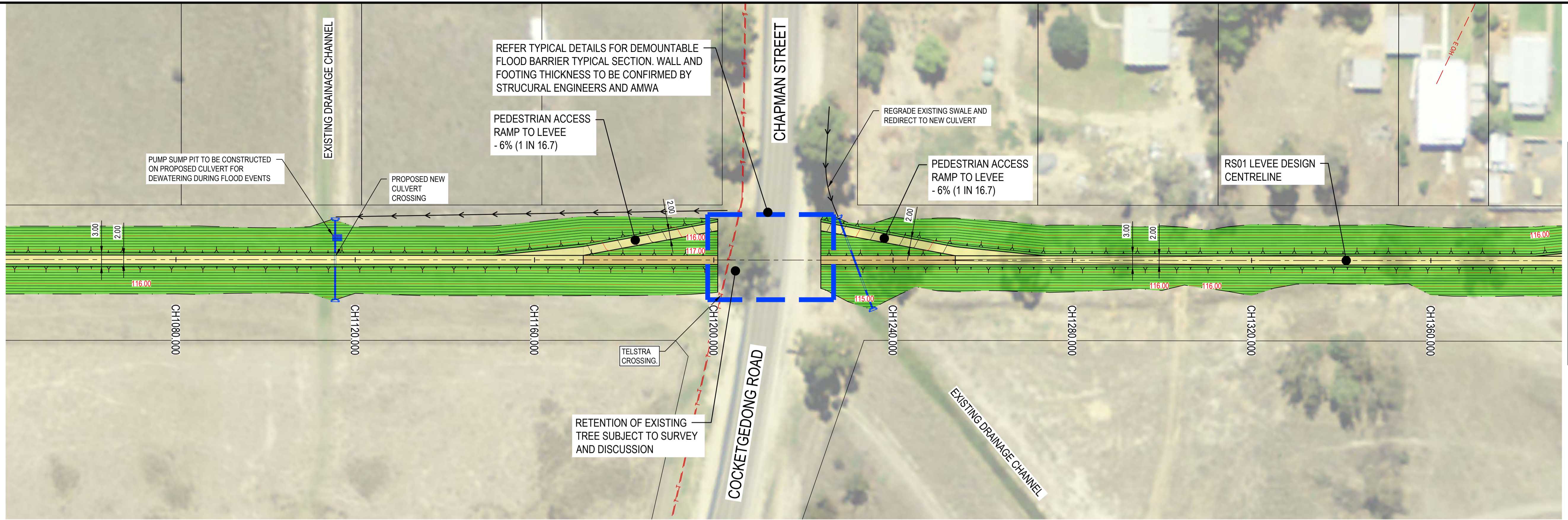
DRAWN	DATE	SCALE	DATUM
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DESIGNED	DATE	PROJECTION	SHEET SIZE
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DSE23029-1002			2

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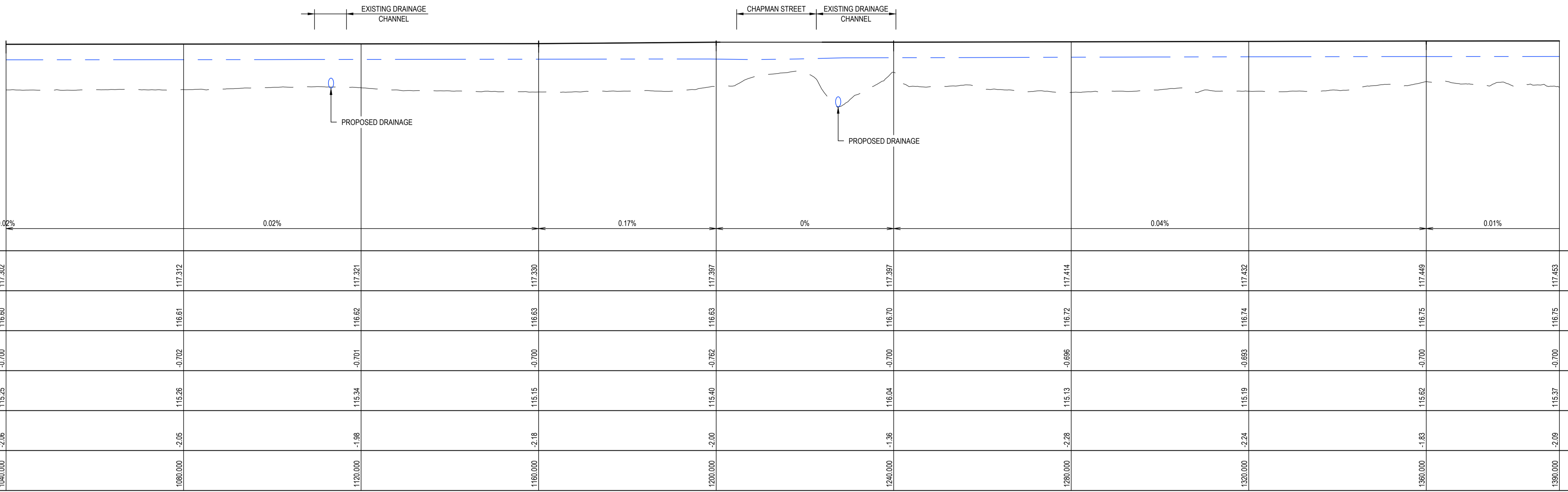
LEGEND

- EXISTING SURVEY
- EXISTING CONTOURS MAJOR & LABEL MINOR & LABEL
- PROPOSED CONTOURS MAJOR & LABEL MINOR LABEL
- PROPOSED FENCE AND GATE
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LAYOUT PLAN
SCALE 1:500m



RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE
SCALE H 1:500m V 1:100m

PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-

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BROUGONG STREET
URANA, NSW 2645
PRELIMINARY DESIGN
LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
SHEET 4 OF 7

DRAWN	DATE	SCALE	DATUM
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DESIGNED	DATE	PROJECTION	SHEET SIZE
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DSE23029-1003 2

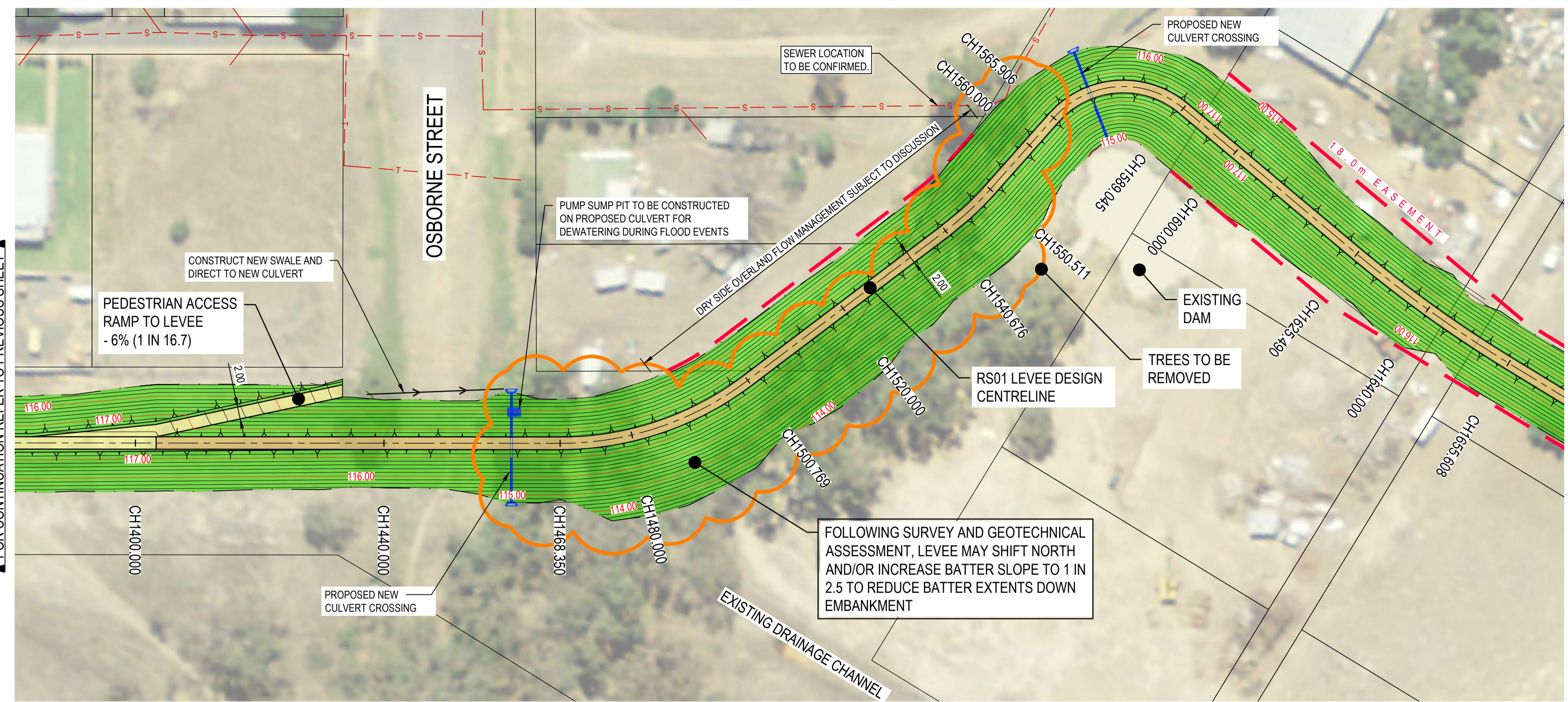
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DATE PLOTTED: 8 November 2023 4:49 PM BY: AARON WARD
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LEGEND

	EXISTING SURVEY
	EXISTING CONTOURS MAJOR & LABEL
	EXISTING CONTOURS MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL
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CHAINAGE	1390.000	1400.000	1440.000	1468.350	1480.000	1500.069	1520.000	1540.876	1550.311	1560.000	1565.906	1580.045	1600.000	1625.490	1640.000	1655.608	1660.000
DESIGN LEVEE CENTRELINE	117.453	117.454	117.460	117.464	117.466	117.468	117.471	117.473	117.475	117.475	117.475	117.475	117.476	117.476	117.476	117.477	117.478
1%AEP PROFILE AT CENTRELINE	116.75	116.75	116.76	116.76	116.76	116.77	116.77	116.77	116.77	116.77	116.77	116.77	116.77	116.77	116.77	116.78	116.78
FREEBOARD DEPTH	-0.700	-0.700	-0.702	-0.700	-0.701	-0.700	-0.699	-0.699	-0.700	-0.700	-0.700	-0.701	-0.701	-0.701	-0.702	-0.700	-0.700
EXISTING SURFACE PROFILE AT CENTRELINE	115.37	115.50	116.18	115.79	115.30	115.95	115.78	115.65	115.25	115.14	115.10	115.44	115.86	116.26	116.25	115.72	115.66
DEPTH TO EXISTING SURFACE	-2.09	-1.95	-1.28	-1.68	-2.17	-1.52	-1.69	-1.82	-2.23	-2.34	-2.37	-2.04	-1.62	-1.22	-1.22	-1.76	-1.82

RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE
 SCALE H 1:500m V 1:100m

PRELIMINARY DESIGN
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REV	DATE	DESCRIPTION	DES	VER	APP
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-

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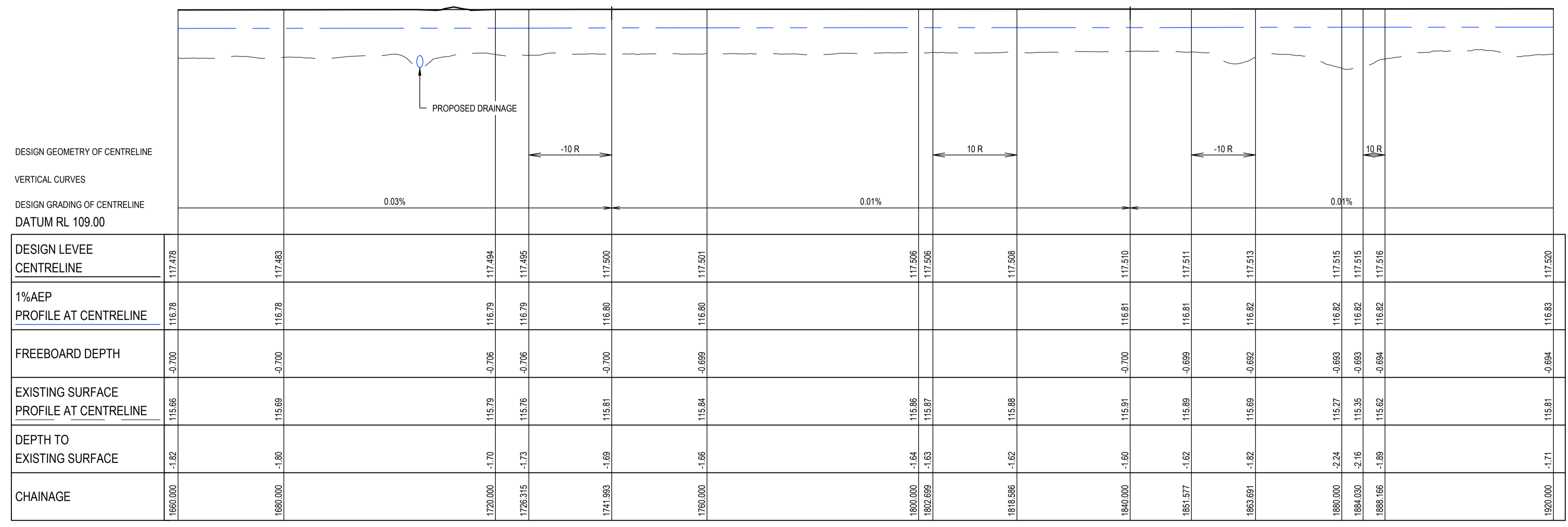
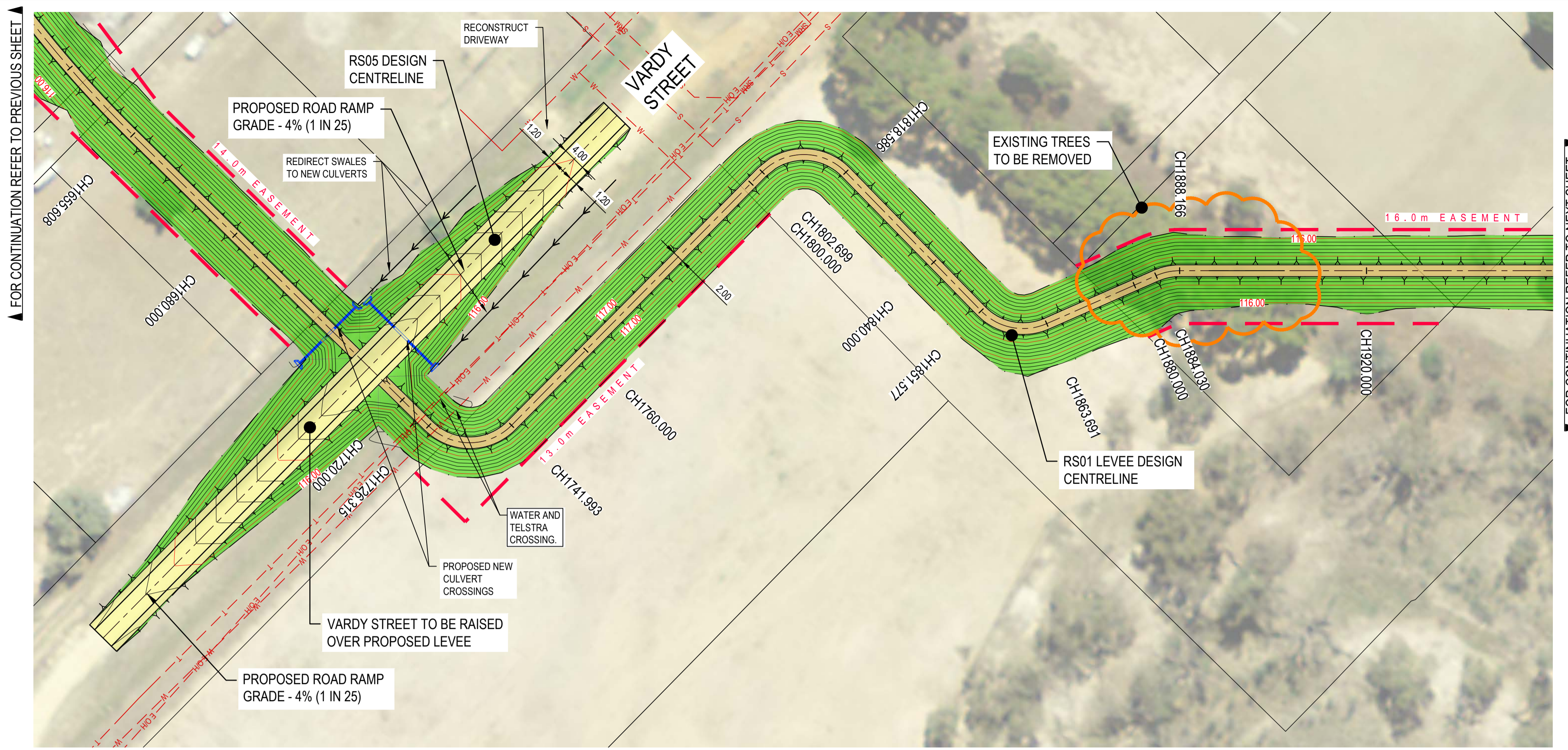
FEDERATION COUNCIL
 URANA LEVEE UPGRADE WORKS
 BROUGONG STREET
 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
 SHEET 5 OF 7

DRAWN A.WARD	DATE 26/09/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 26/09/2023	PROJECTION GD2020	SHEET SIZE A1
DSE23029-1004			2

DATE PLOTTED: 8 November 2023 4:50 PM BY: AARON WARD
 XREFS: X:\DSE23029-CONT-E-X\DSE23029-CONT-E-X\CAD\ASSTRA\X\DSE23029-CONT-E-X\RS01-LS-1000-P-RS01-LS-1001-P-RS01-LS-1002-P-RS01-LS-1003-P-RS01-LS-1004-P-RS01-LS-1005-P-RS01-LS-1006-CAD File: C:\Users\aron\OneDrive\Engineering\Dropbox\Dryside\Urana_Levee\ENGINEERING\Drawings\DSE23029-1000.dwg

LEGEND	
	EXISTING SURVEY
	EXISTING CONTOURS MAJOR & LABEL
	EXISTING CONTOURS MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL
	PROPOSED CONTOURS MINOR & LABEL
	PROPOSED FENCE AND GATE
	PROPOSED EASEMENT
	PROPOSED LEVEE WITH TOPSOIL BENCH
	PROPOSED LEVEE WITH GRAVEL BENCH
	PROPOSED SWALE DRAIN
	PROPOSED DRAINAGE PIPE AND HEADWALLS
	EXISTING DRAINAGE
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING OVERHEAD ELECTRICITY
	EXISTING SEWER
	EXISTING SEWER RISING MAIN
	PROPOSED ASPHALT ROADWAY
	PROPOSED GRAVEL ROADWAY AND SHOULDERS

WARNING
 BEWARE OF UNDERGROUND SERVICES
 THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-

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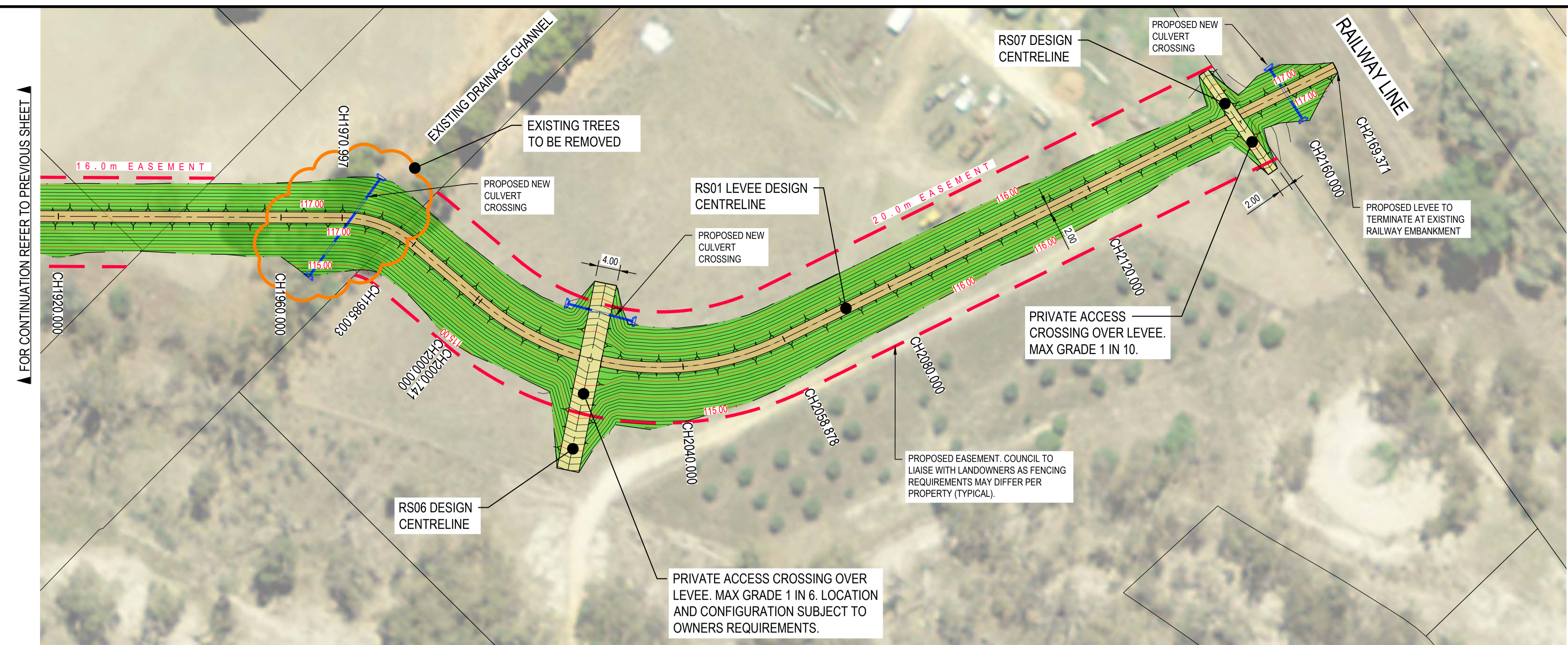
FEDERATION COUNCIL
 URANA LEVEE UPGRADE WORKS
 BROUGONG STREET
 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
 SHEET 6 OF 7

PRELIMINARY DESIGN NOT TO BE USED FOR CONSTRUCTION PURPOSES			
DRAWN	DATE	SCALE	DATUM
A.WARD	26/09/2023	AS SHOWN	MAHD
DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/09/2023	GD2020	A1
DSE23029-1005			2

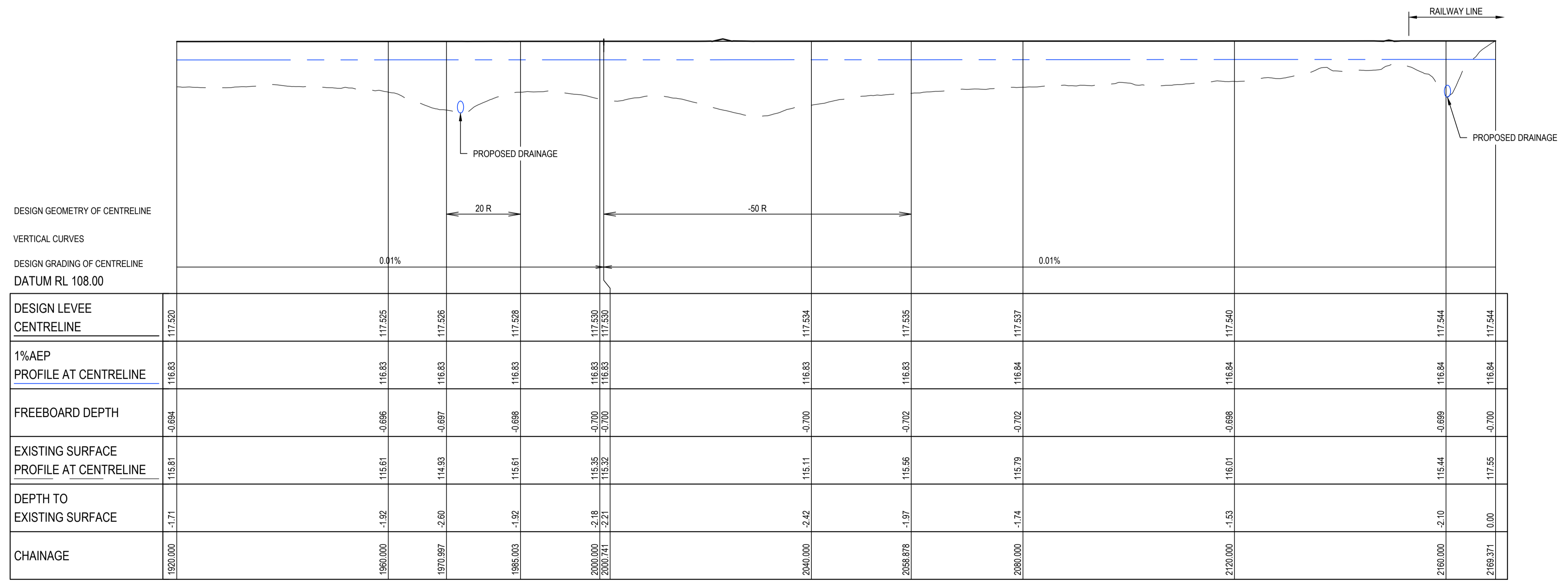
DATE PLOTTED: 8 November 2023 4:50 PM BY: AARON WARD
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 CAD File: C:\Users\aron\OneDrive\Engineering\Dropbox\Dryside\Urana_Levee\ENGINEERING\2 Drawings\DSE23029-1000.dwg

LEGEND	
	EXISTING SURVEY
	EXISTING CONTOURS MAJOR & LABEL
	EXISTING CONTOURS MINOR & LABEL
	PROPOSED CONTOURS MAJOR & LABEL
	PROPOSED CONTOURS MINOR & LABEL
	PROPOSED FENCE AND GATE
	PROPOSED EASEMENT
	PROPOSED LEVEE WITH TOPSOIL BENCH
	PROPOSED LEVEE WITH GRAVEL BENCH
	PROPOSED SWALE DRAIN
	PROPOSED DRAINAGE PIPE AND HEAD WALLS
	EXISTING DRAINAGE
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING OVERHEAD ELECTRICITY
	EXISTING SEWER
	EXISTING SEWER RISING MAIN
	PROPOSED ASPHALT ROADWAY
	PROPOSED GRAVEL ROADWAY AND SHOULDERS

WARNING
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LAYOUT PLAN
 SCALE 1:500m



RS01 LONGITUDINAL SECTION - PROPOSED LEVEE CENTRELINE
 SCALE H 1:500m V 1:100m

PRELIMINARY DESIGN
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	DES	VER	APP
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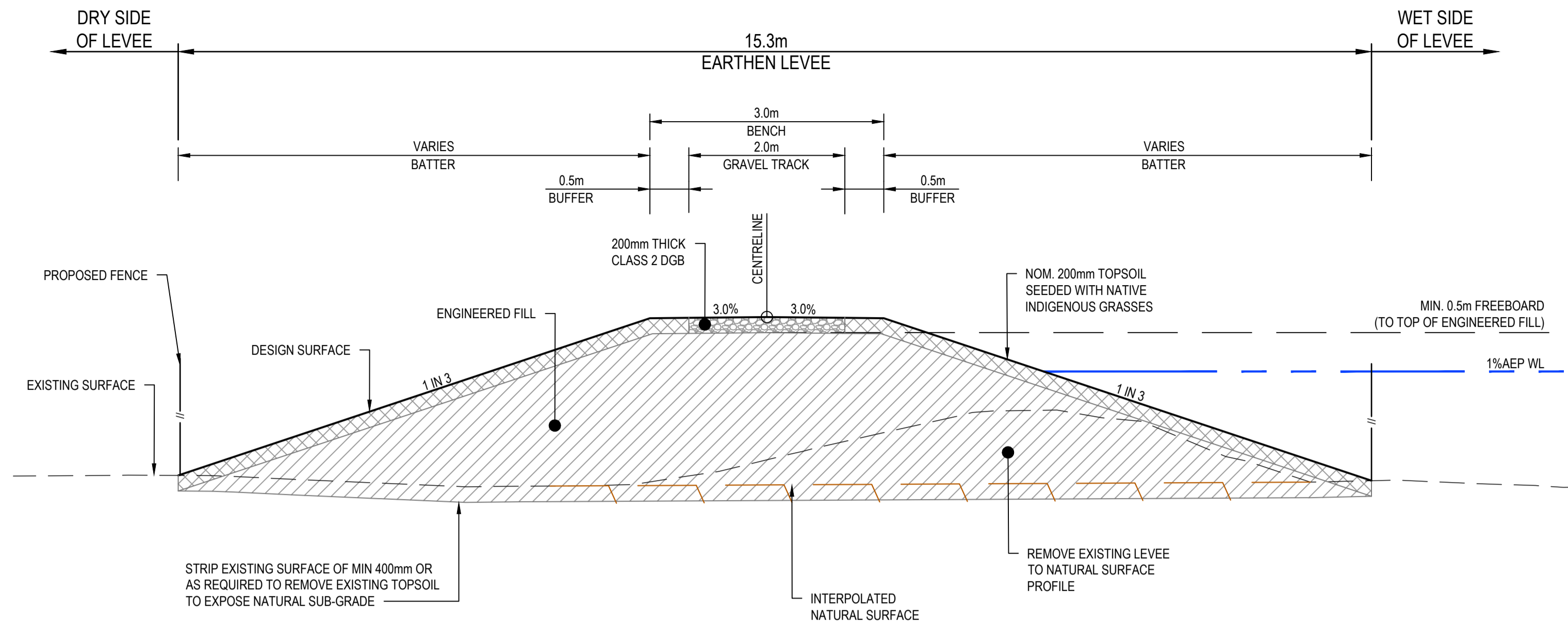
FEDERATION COUNCIL

URANA LEVEE UPGRADE WORKS
 BROUGONG STREET
 URANA, NSW 2645

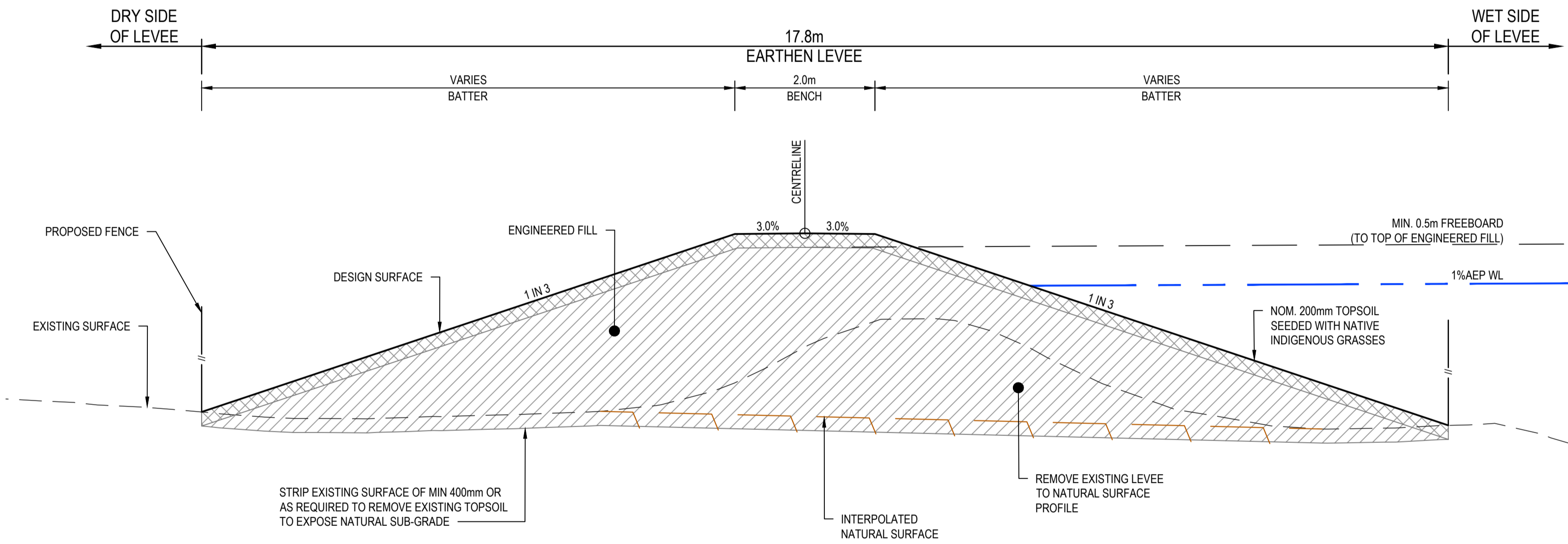
PRELIMINARY DESIGN
 LEVEE LAYOUT PLAN AND LONGITUDINAL SECTION
 SHEET 7 OF 7

DRAWN	A.WARD	DATE	26/09/2023	SCALE	AS SHOWN	DATUM	MAHD
DESIGNED	A.WARD	DATE	26/09/2023	PROJECTION	GD2020	SHEET SIZE	A1
DSE23029-1006							2

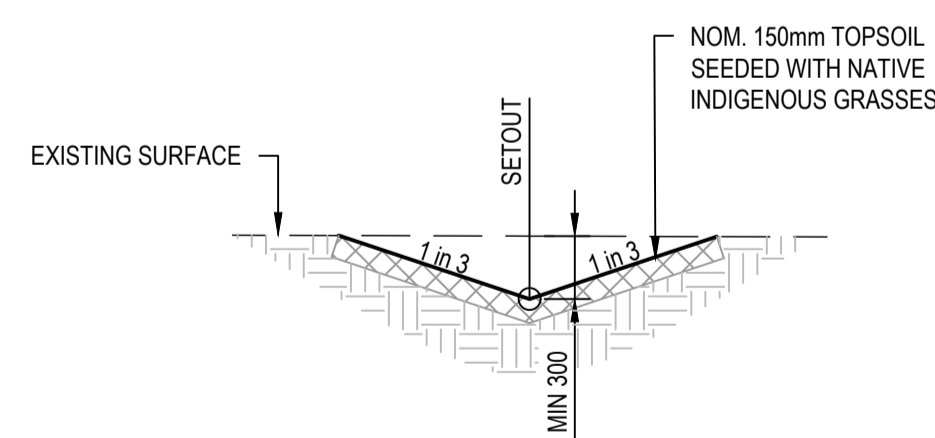
DATE PLOTTED: 8 November 2023 4:50 PM BY: AARON WARD



LEVEE TYPICAL SECTION - 3m WIDE BENCH CH40.0 - CH1430
SCALE 1:50

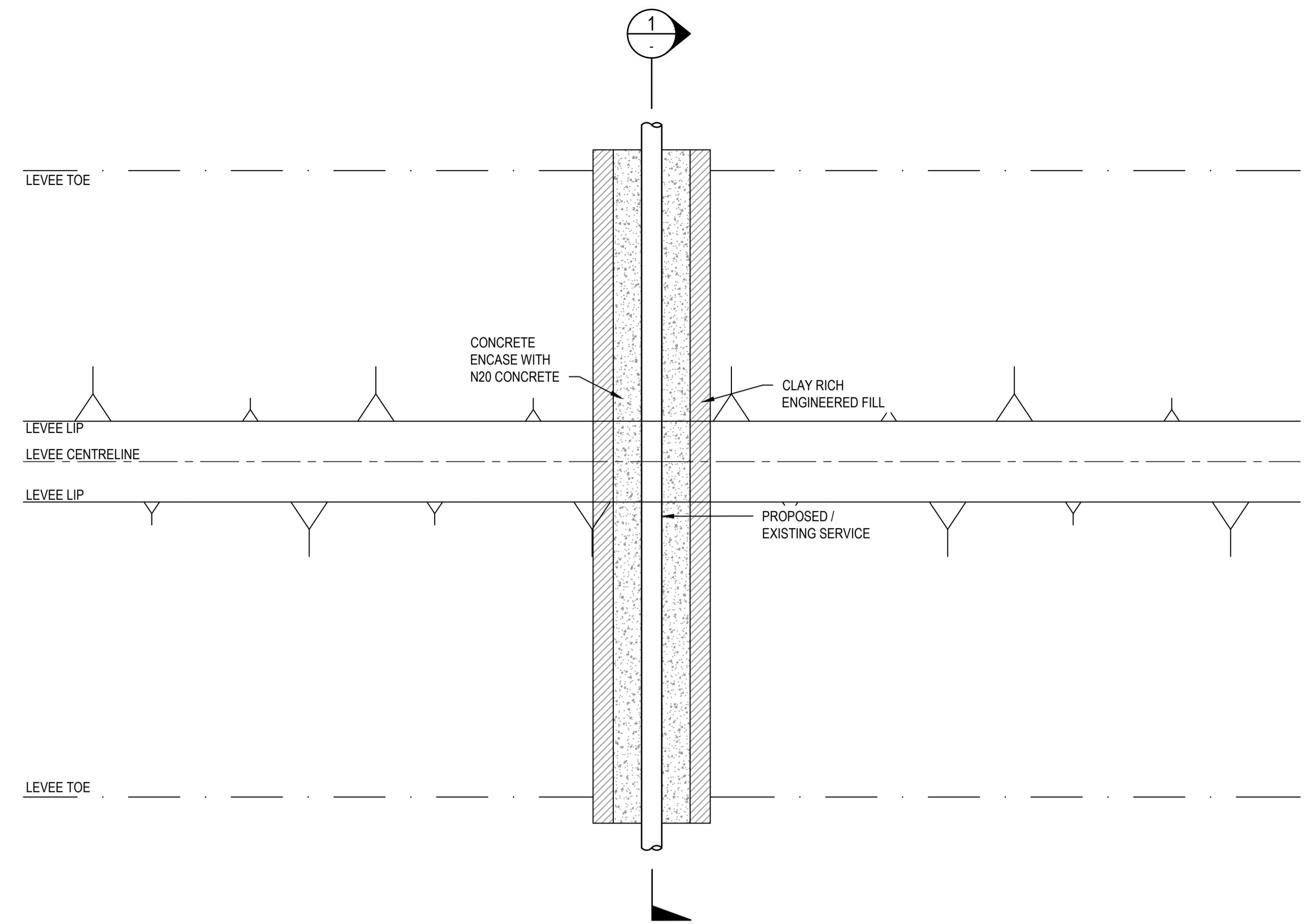


LEVEE TYPICAL SECTION - 2m WIDE BENCH CH1430 - CH2170
SCALE 1:50



SWALE DRAIN TYPICAL SECTION
SCALE 1:50

- NOTES:
- IT IS UP TO THE CONTRACTOR TO ENSURE SUFFICIENT SEDIMENT CONTROL MEASURES DURING ESTABLISHMENT PHASE TO PREVENT EROSION AND LOSS OF TOPSOIL DOES NOT OCCUR
 - CONTRACTOR TO GRADE SWALES TO A DEFINED OUTLET POINT

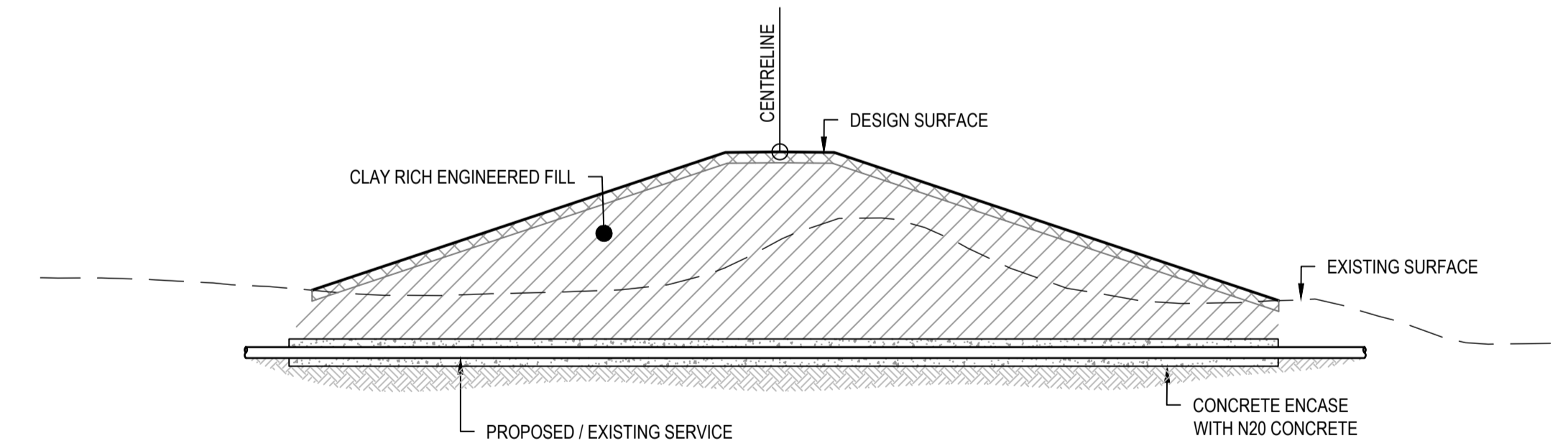


SERVICE LEVEE CROSSING DETAIL

SCALE 1:100

NOTES:

- TELSTRA CROSSINGS TO BE UNDERTAKEN BY TELSTRA CONTRACTOR
- WATER CROSSINGS TO BE UNDERTAKEN BY APPROVED CONTRACTOR



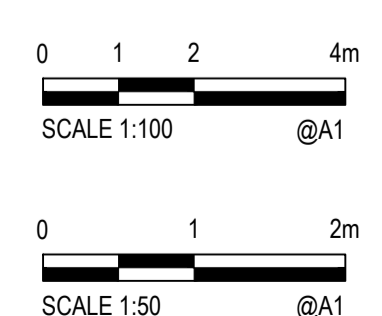
SECTION 1

SCALE 1:100

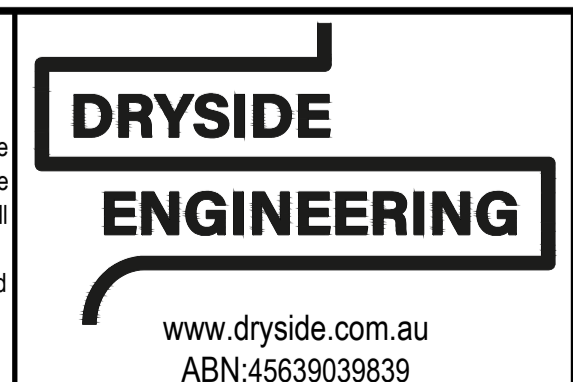
PRELIMINARY DESIGN
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



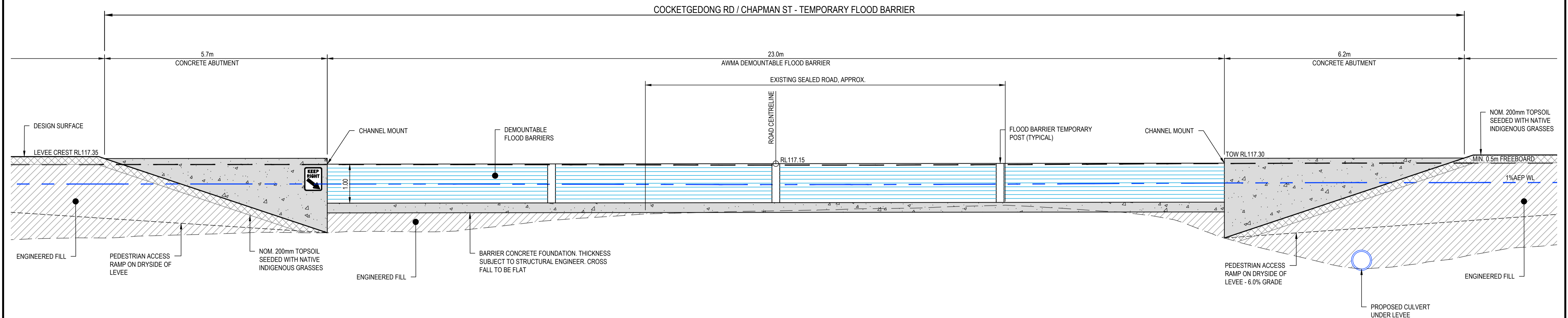
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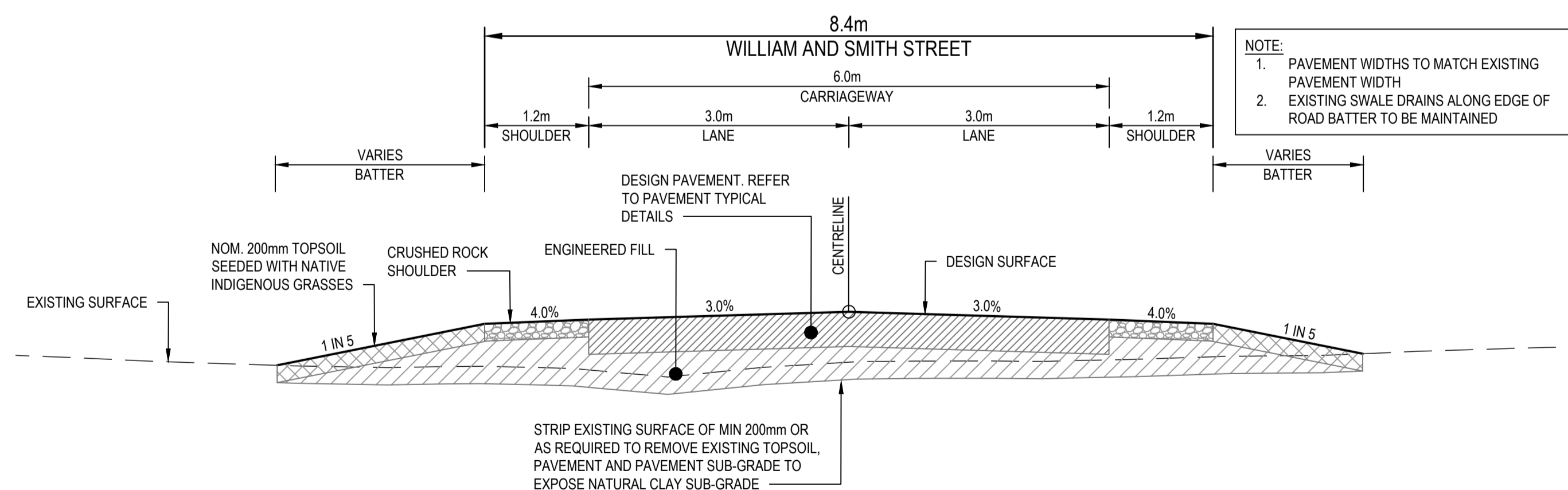
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FEDERATION COUNCIL
URANA LEVEE UPGRADE WORKS
BROUGONG STREET
URANA, NSW 2645
PRELIMINARY DESIGN
TYPICAL DETAILS
SHEET 1 OF 3

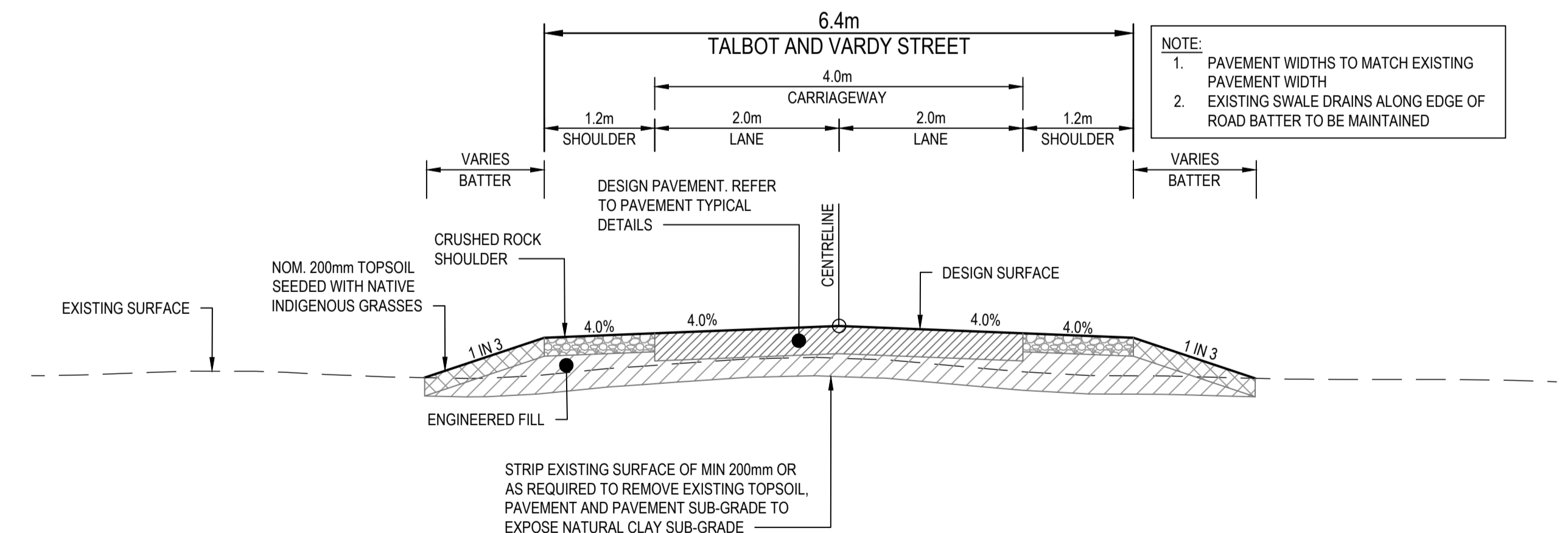
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A.WARD	26/09/2023	AS SHOWN	MAHD
DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/09/2023	GD2020	A1
DSE23029-1100			2



DEMOUNTABLE FLOOD BARRIER TYPICAL SECTION
SCALE 1:50



WILLIAM AND SMITH STREET TYPICAL SECTION
SCALE 1:50

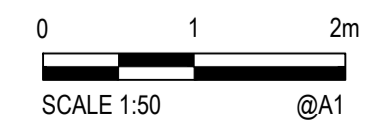


TALBOT AND VARDY STREET TYPICAL SECTION
SCALE 1:50

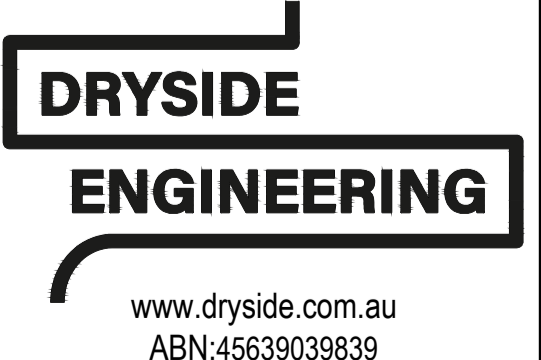
PRELIMINARY DESIGN
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REV	DATE	DESCRIPTION	DES	VER	APP
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



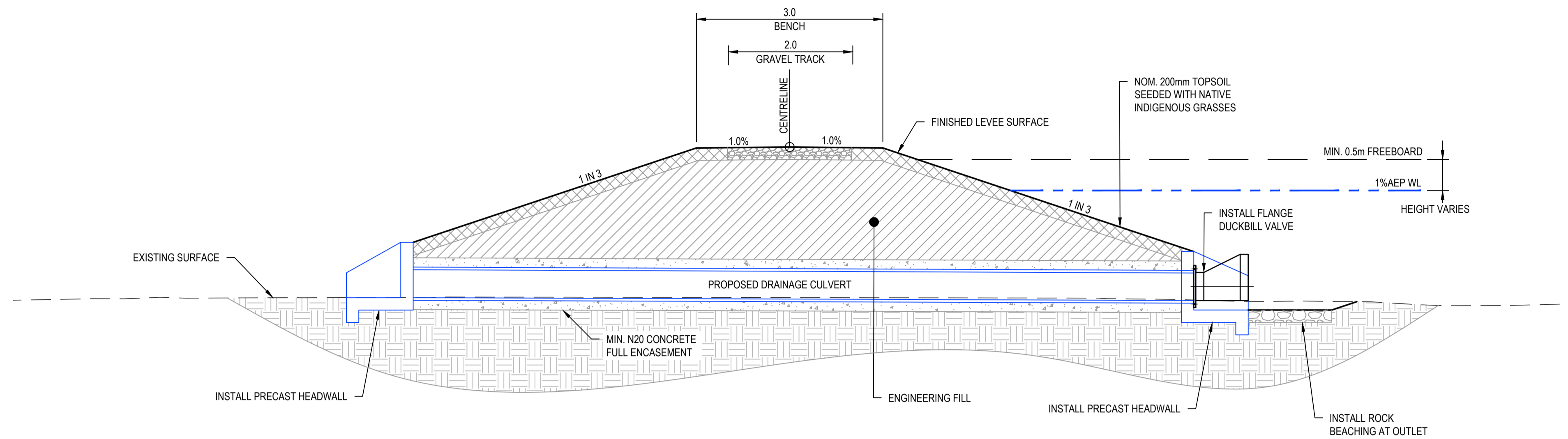
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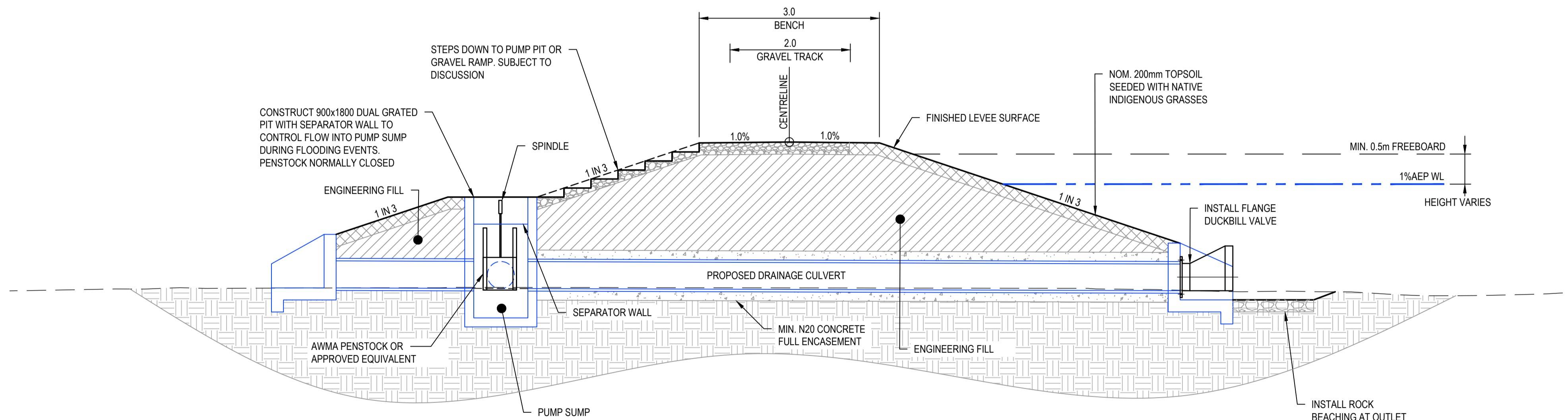
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URANA LEVEE UPGRADE WORKS
BROUGONG STREET
URANA, NSW 2645
PRELIMINARY DESIGN
TYPICAL DETAILS
SHEET 2 OF 3

DRAWN	DATE	SCALE	DATUM
A.WARD	26/09/2023	AS SHOWN	MAHD
DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/09/2023	GD2020	A1
DSE23029-1101			2



PROPOSED CULVERT CROSSING TYPICAL SECTION
SCALE 1:50

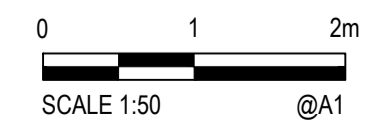


PROPOSED CULVERT CROSSING TYPICAL SECTION - WITH PUMP SUMP PIT
SCALE 1:50

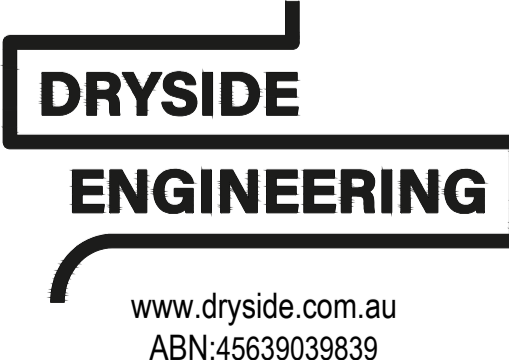
PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

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REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



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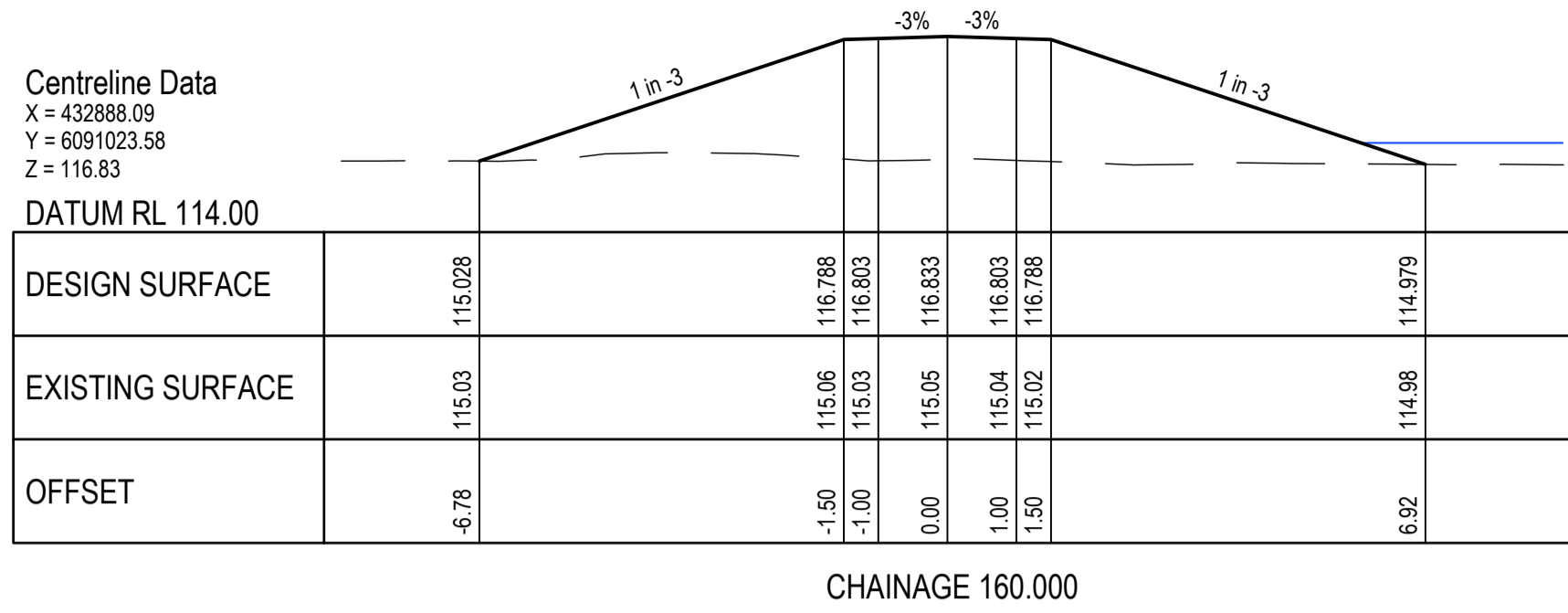


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FEDERATION COUNCIL
URANA LEVEE UPGRADE WORKS
BROUGONG STREET
URANA, NSW 2645
PRELIMINARY DESIGN
TYPICAL DETAILS
SHEET 3 OF 3

DRAWN	DATE	SCALE	DATUM
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DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/09/2023	GD2020	A1

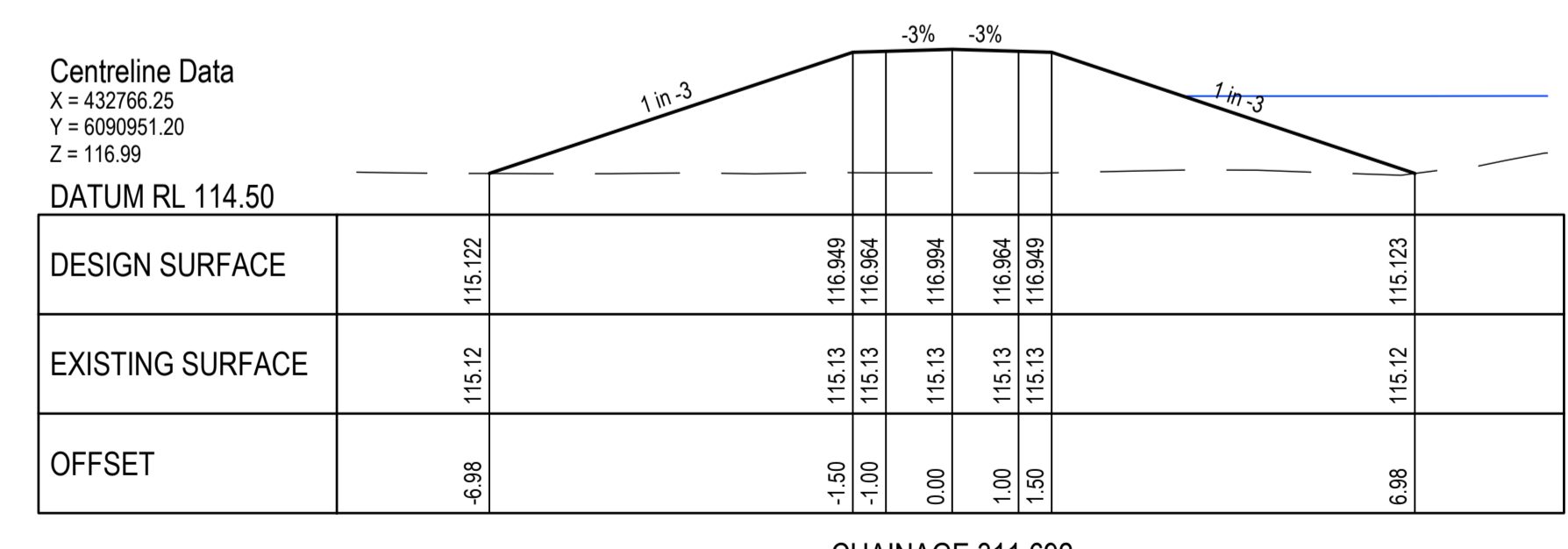
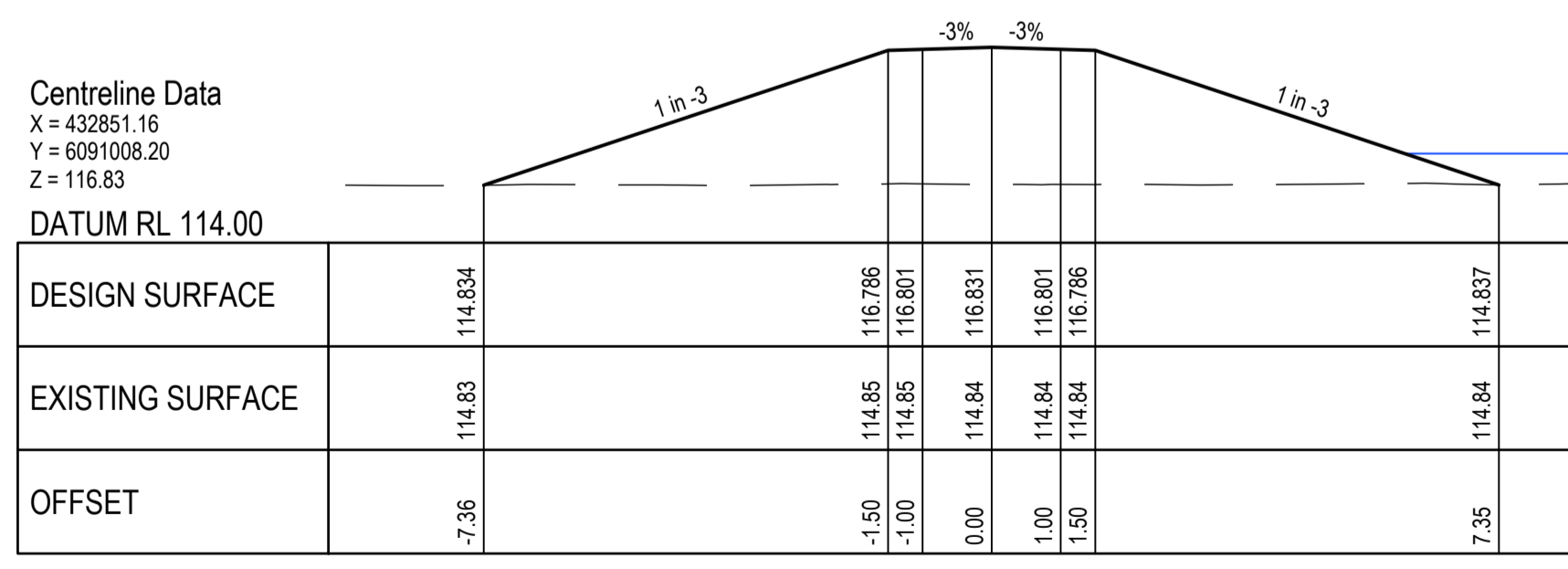
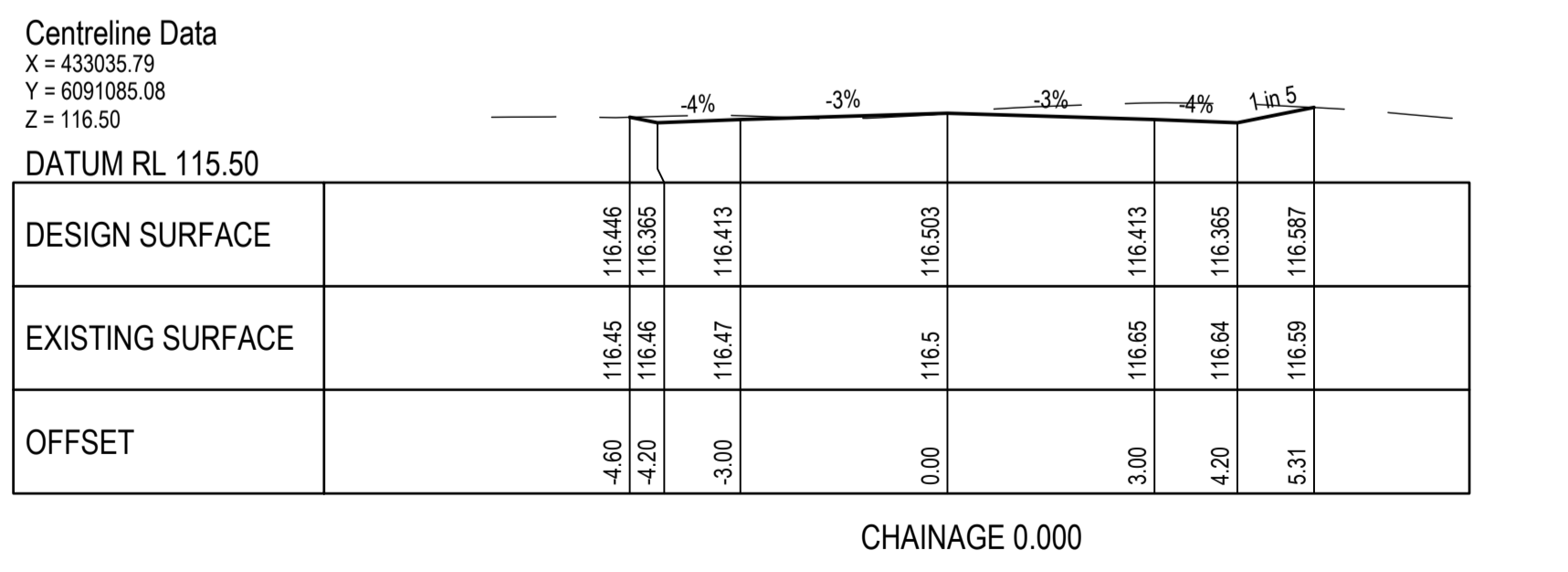
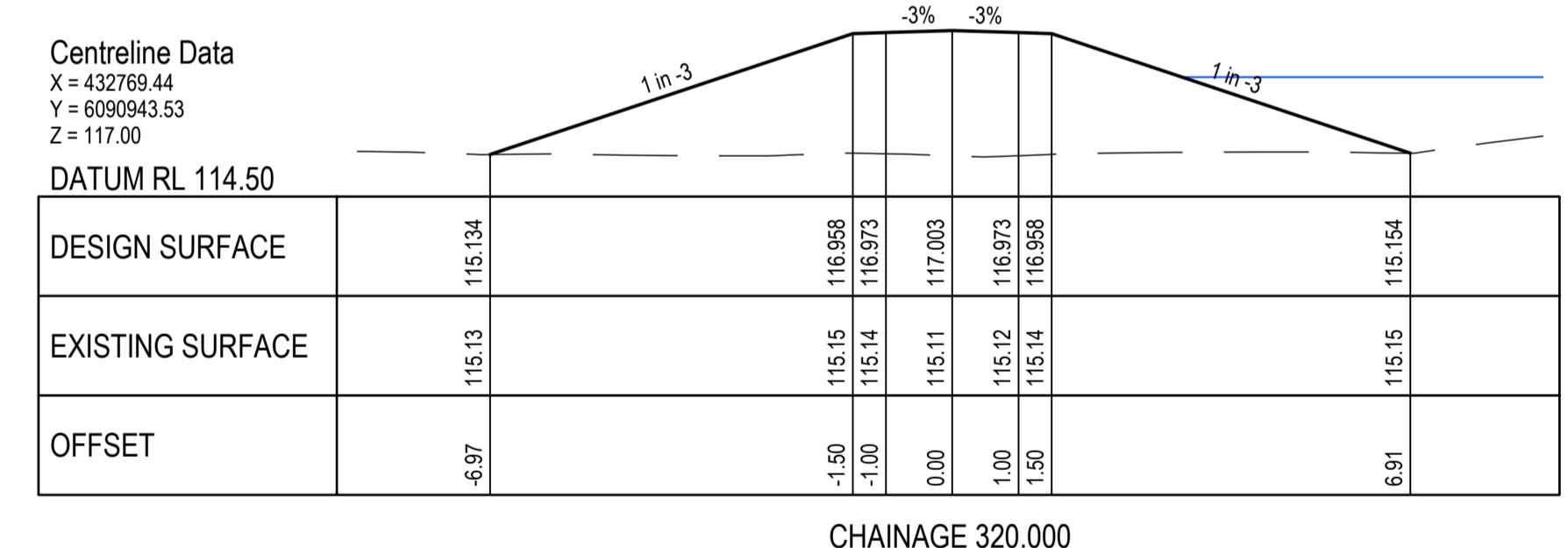
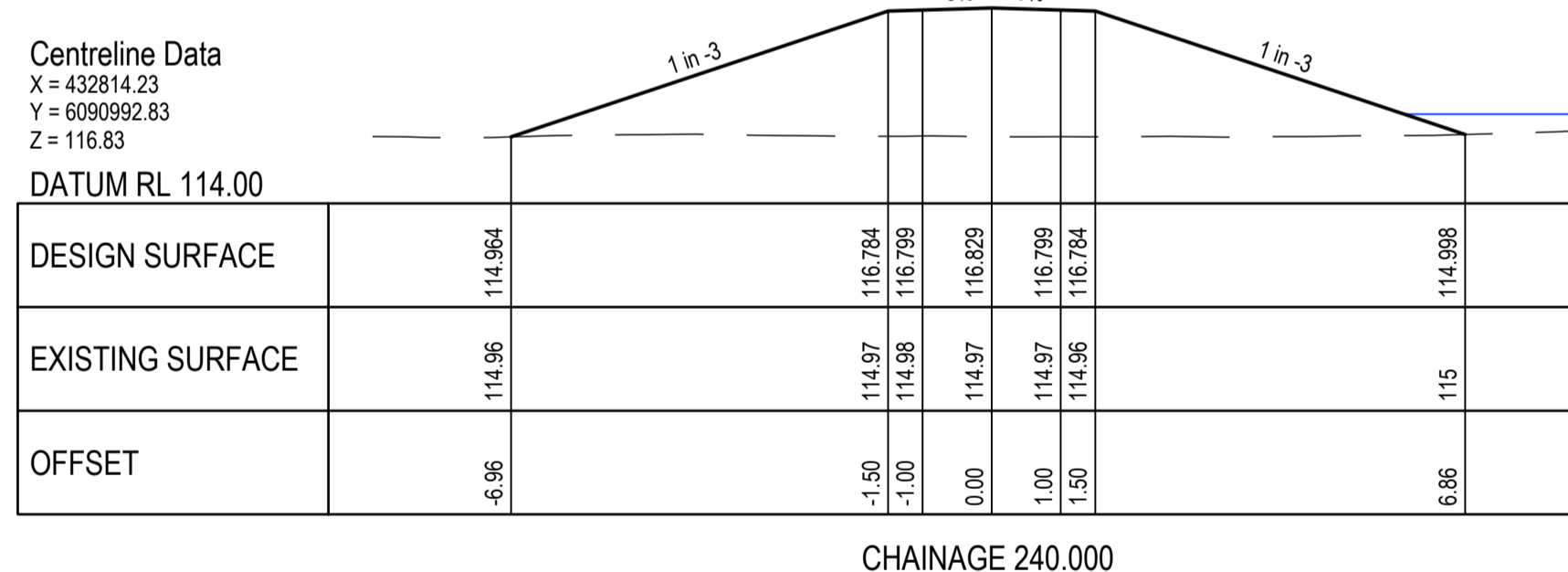
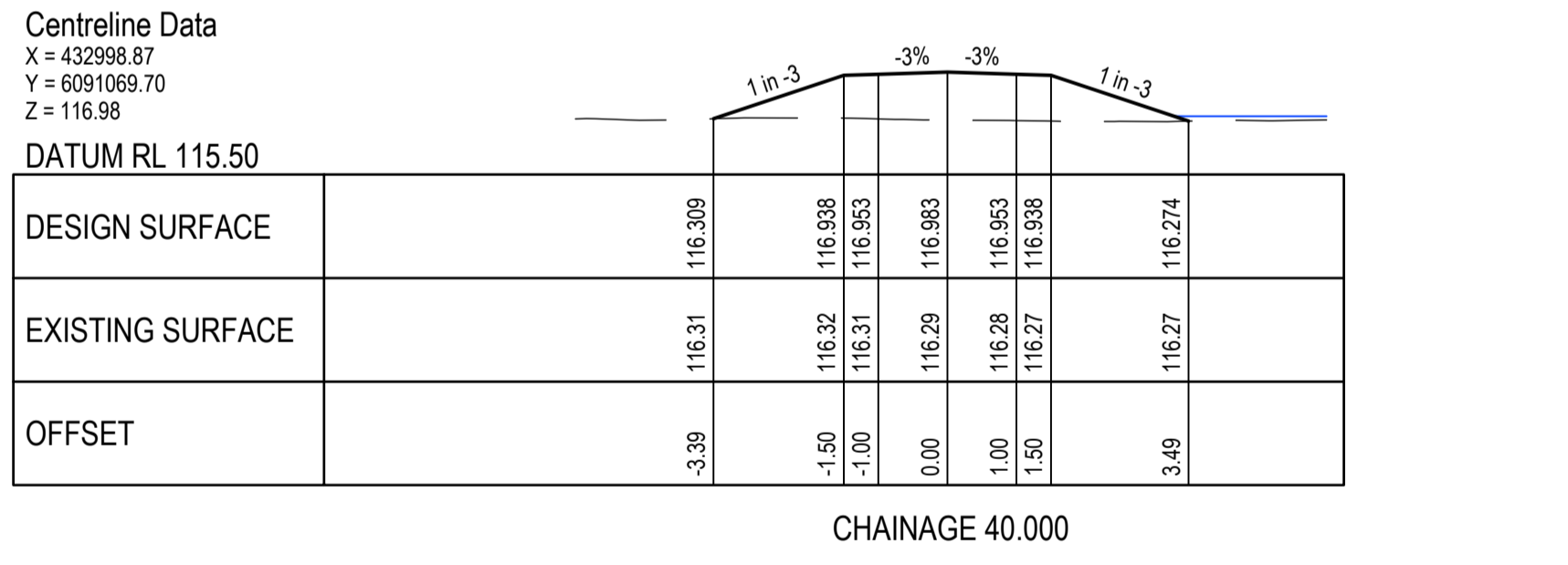
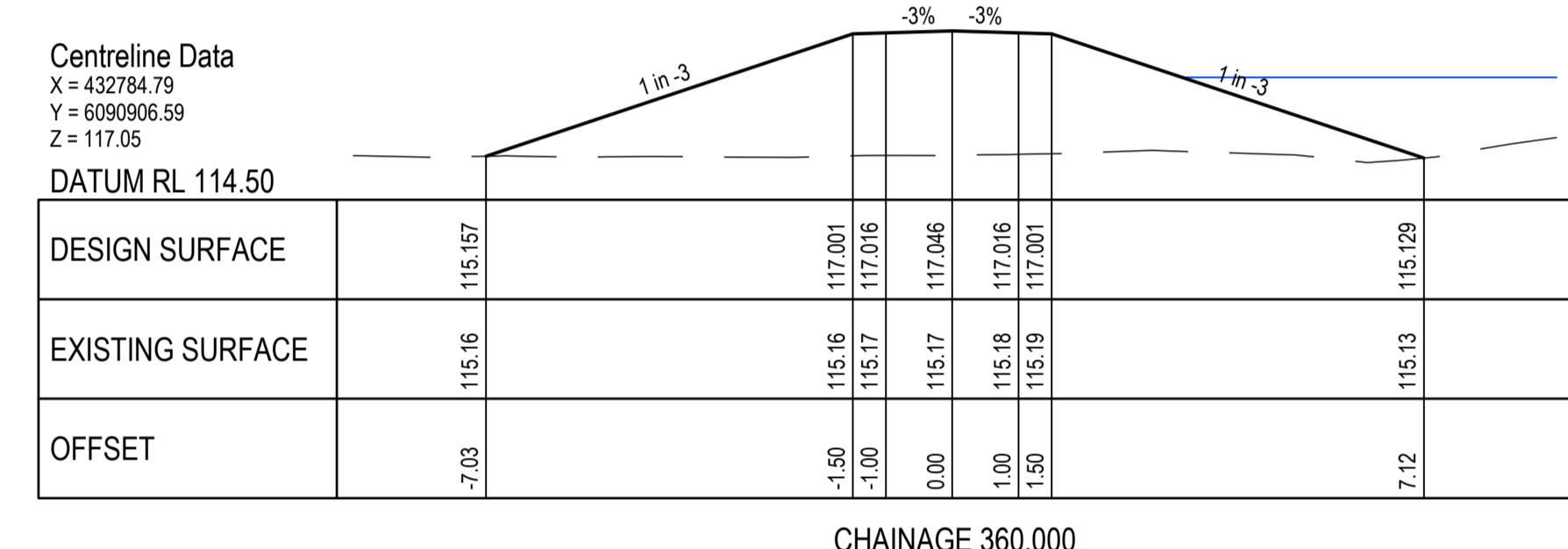
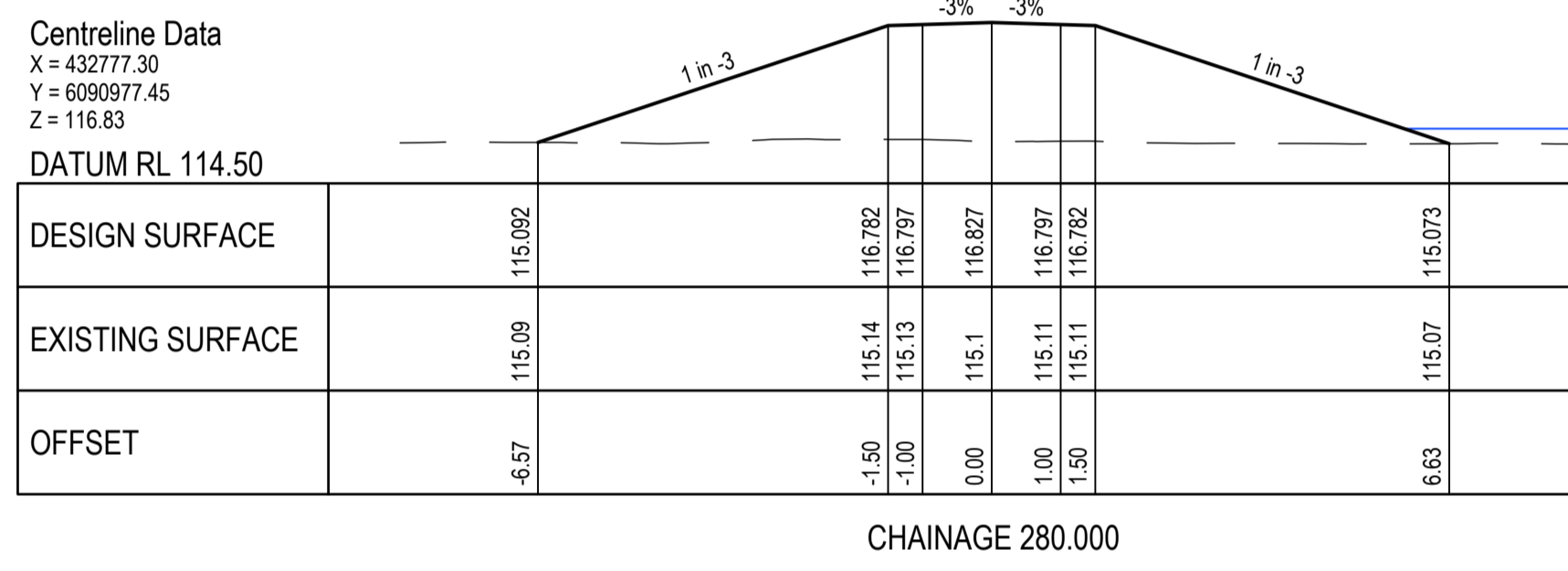
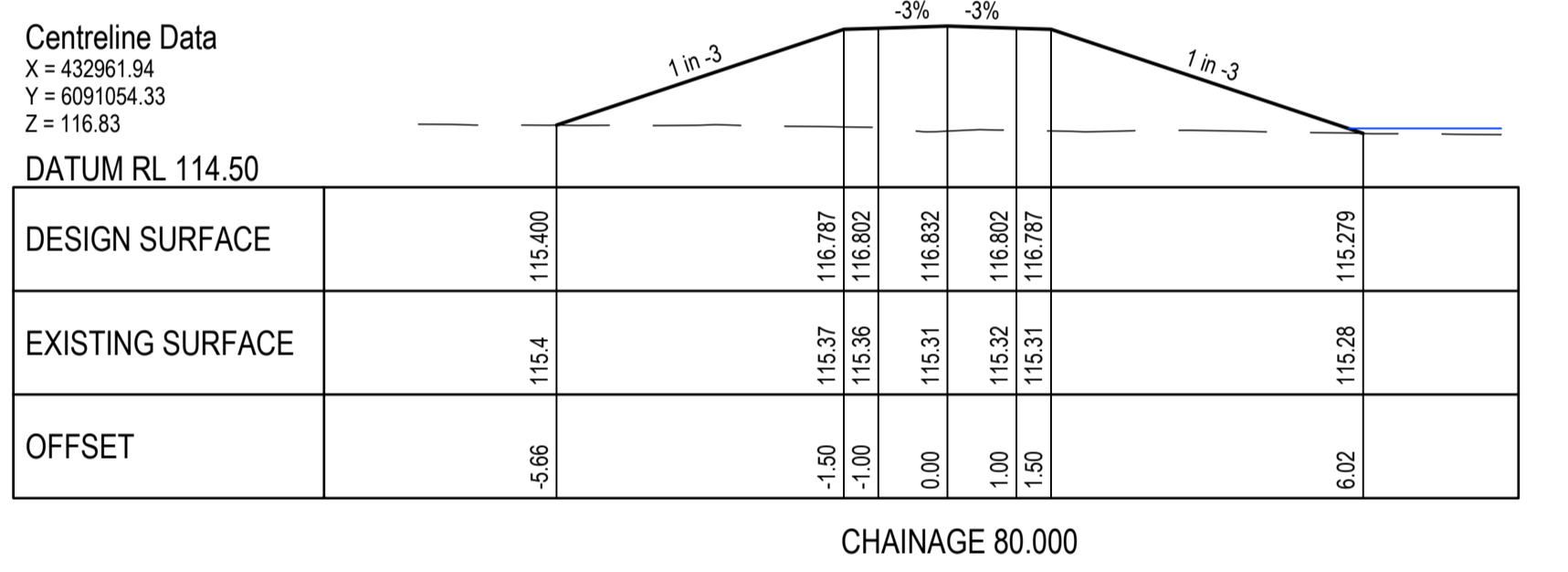
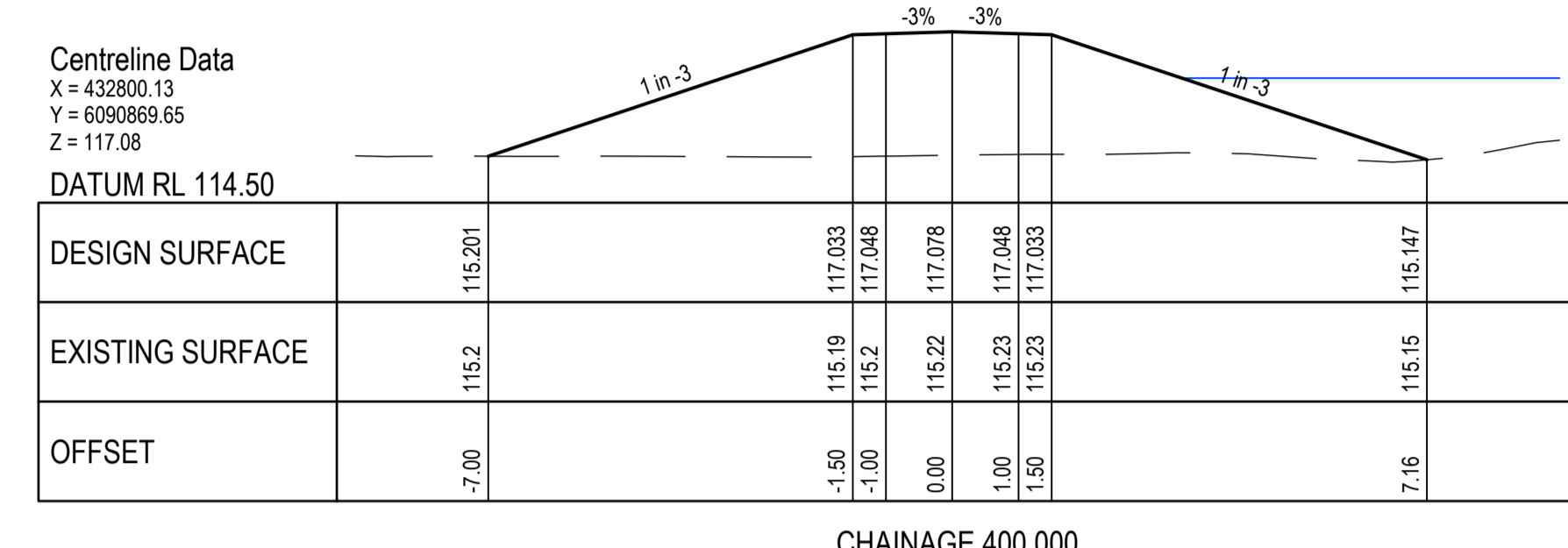
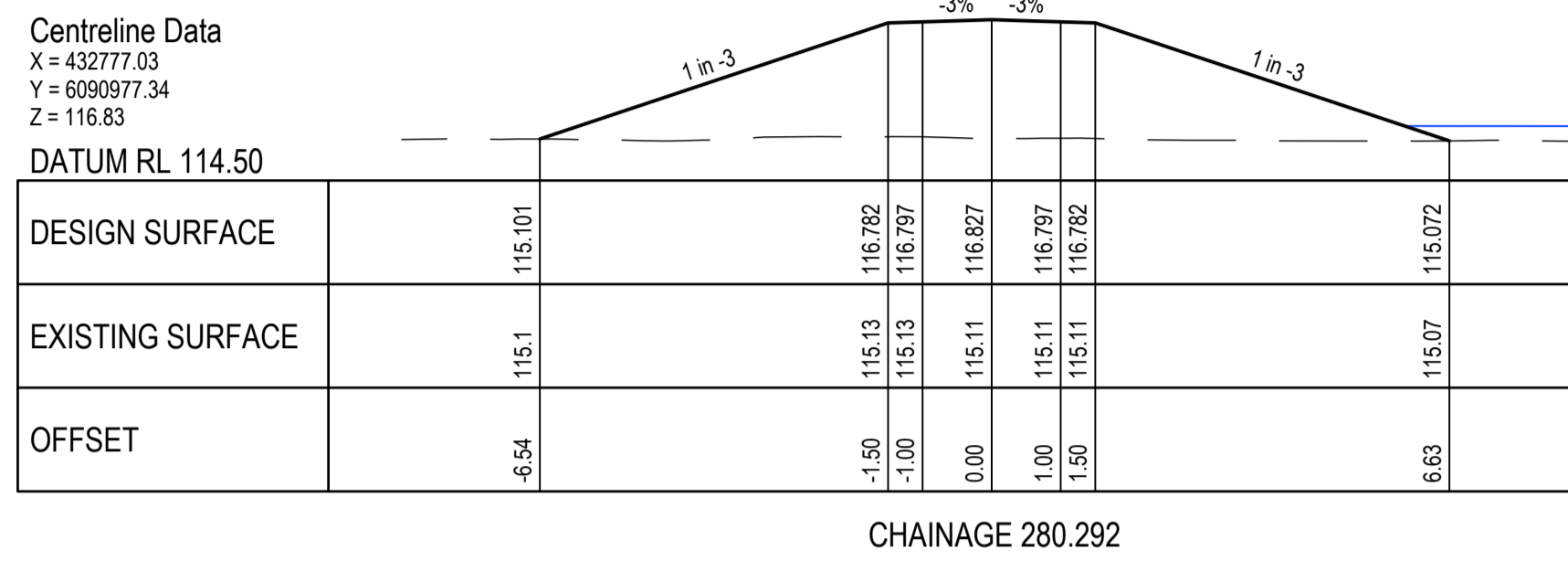
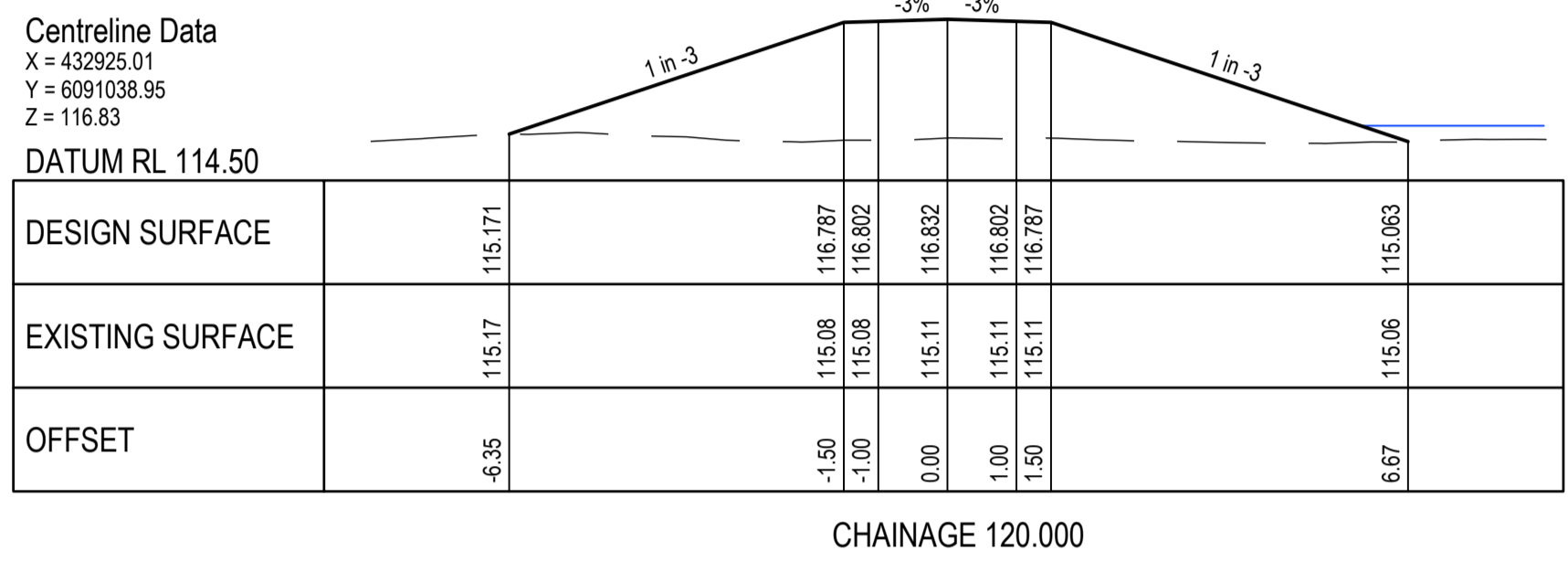
DSE23029-1102 2



LIDAR SURFACE
 EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

LEGEND - CROSS AND LONG SECTIONS

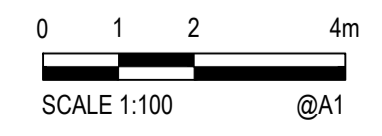
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	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE



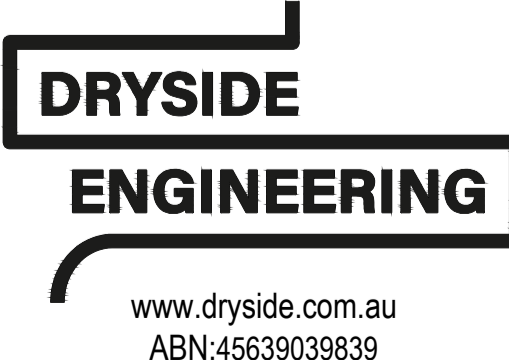
RS01 CROSS SECTIONS
 SCALE H 1:100m V 1:100m

PRELIMINARY DESIGN
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REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
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 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE CROSS SECTIONS
 SHEET 1 OF 8

DRAWN	A.WARD	DATE	26/09/2023	SCALE	AS SHOWN	DATUM	MAHD
DESIGNED	A.WARD	DATE	26/09/2023	PROJECTION	GD2020	SHEET SIZE	A1
DSE23029-1200							2

LEGEND - CROSS AND LONG SECTIONS

	FINISHED SURFACE PROFILE
	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE

LIDAR SURFACE
EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

Centreline Data

X = 432861.52
Y = 6090721.90
Z = 117.20

DATUM RL 114.50

DESIGN SURFACE		115.016			
EXISTING SURFACE		115.02		115.03	115.079
OFFSET		7.90		-1.50	7.72

CHAINAGE 560.000

Centreline Data

X = 432846.17
Y = 6090758.84
Z = 117.17

DATUM RL 114.50

DESIGN SURFACE					
EXISTING SURFACE		115.26	117.123	117.138	117.168
OFFSET		-1.50	-1.00	0.00	1.00

CHAINAGE 520.000

Centreline Data

X = 432830.82
Y = 6090795.78
Z = 117.14

DATUM RL 114.50

DESIGN SURFACE					
EXISTING SURFACE		115.17	117.084	117.109	117.139
OFFSET		-7.28	-1.50	-1.00	1.00

CHAINAGE 480.000

Centreline Data

X = 432815.48
Y = 6090832.71
Z = 117.11

DATUM RL 114.50

DESIGN SURFACE		115.190			
EXISTING SURFACE		115.19	117.065	117.080	117.110
OFFSET		-7.13	-1.50	-1.00	1.00

CHAINAGE 440.000

Centreline Data

X = 432922.90
Y = 6090574.14
Z = 117.22

DATUM RL 114.50

DESIGN SURFACE		115.506			
EXISTING SURFACE		115.51	117.171	117.186	117.216
OFFSET		-6.50	-1.50	-1.00	1.00

CHAINAGE 720.000

Centreline Data

X = 432907.55
Y = 6090611.08
Z = 117.21

DATUM RL 114.50

DESIGN SURFACE		115.290			
EXISTING SURFACE		115.29	117.164	117.179	117.209
OFFSET		-7.12	-1.50	-1.00	1.00

CHAINAGE 680.000

Centreline Data

X = 432892.21
Y = 6090648.02
Z = 117.21

DATUM RL 114.00

DESIGN SURFACE		115.096			
EXISTING SURFACE		115.1	117.160	117.175	117.205
OFFSET		-7.69	-1.50	-1.00	1.00

CHAINAGE 640.000

Centreline Data

X = 432876.86
Y = 6090684.96
Z = 117.20

DATUM RL 113.50

DESIGN SURFACE		114.946			
EXISTING SURFACE		114.95	117.156	117.171	117.201
OFFSET		-8.12	-1.50	-1.00	1.00

CHAINAGE 600.000

Centreline Data

X = 432989.63
Y = 6090389.44
Z = 117.27

DATUM RL 115.00

DESIGN SURFACE		115.901			
EXISTING SURFACE		115.9	117.228	117.243	117.273
OFFSET		-5.48	-1.50	-1.00	1.00

CHAINAGE 920.000

Centreline Data

X = 432984.28
Y = 6090426.38
Z = 117.26

DATUM RL 115.00

DESIGN SURFACE		116.092			
EXISTING SURFACE		116.09	117.214	117.229	117.259
OFFSET		-4.87	-1.50	-1.00	1.00

CHAINAGE 880.000

Centreline Data

X = 432968.94
Y = 6090463.32
Z = 117.24

DATUM RL 115.50

DESIGN SURFACE		116.063			
EXISTING SURFACE		116.06	117.200	117.215	117.245
OFFSET		-4.91	-1.50	-1.00	1.00

CHAINAGE 840.000

Centreline Data

X = 432953.59
Y = 6090500.26
Z = 117.23

DATUM RL 115.00

DESIGN SURFACE		115.971			
EXISTING SURFACE		115.97	117.186	117.201	117.231
OFFSET		-5.14	-1.50	-1.00	1.00

CHAINAGE 800.000

Centreline Data

X = 432938.25
Y = 6090537.20
Z = 117.22

DATUM RL 115.00

DESIGN SURFACE		115.851			
EXISTING SURFACE		115.85	117.179	117.194	117.224
OFFSET		-5.48	-1.50	-1.00	1.00

CHAINAGE 760.000

RS01 CROSS SECTIONS
SCALE H 1:100m V 1:100m

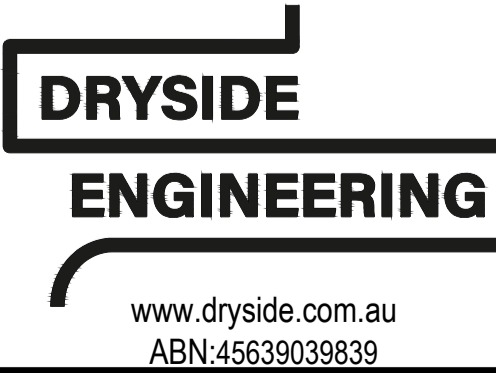
PRELIMINARY DESIGN
NOT TO BE USED FOR CONSTRUCTION PURPOSES

XREFS: P-RS01-XS-01; P-RS01-XS-02; P-RS01-XS-03; P-RS01-XS-04; P-RS01-XS-05; P-RS01-XS-06; P-RS01-XS-07; P-RS01-XS-08; CAD File: C:\Users\aron\OneDrive\Engineering\Dropbox\Dryside\Uranu_Level4_ENGINEERING\2 Drawings\DSE23029-1200.dwg

REV	DATE	DESCRIPTION	DES	VER	APP
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



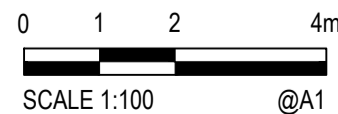
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FEDERATION COUNCIL
URANA LEVEE UPGRADE WORKS
BROUGONG STREET
URANA, NSW 2645
PRELIMINARY DESIGN
LEVEE CROSS SECTIONS
SHEET 2 OF 8

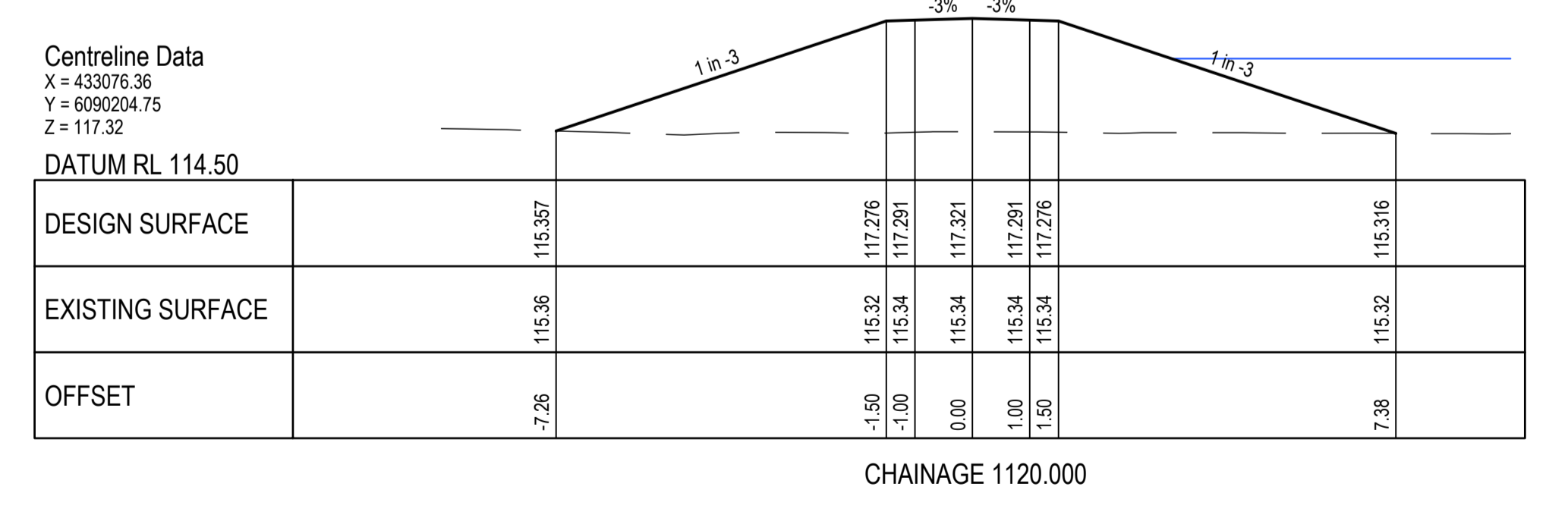
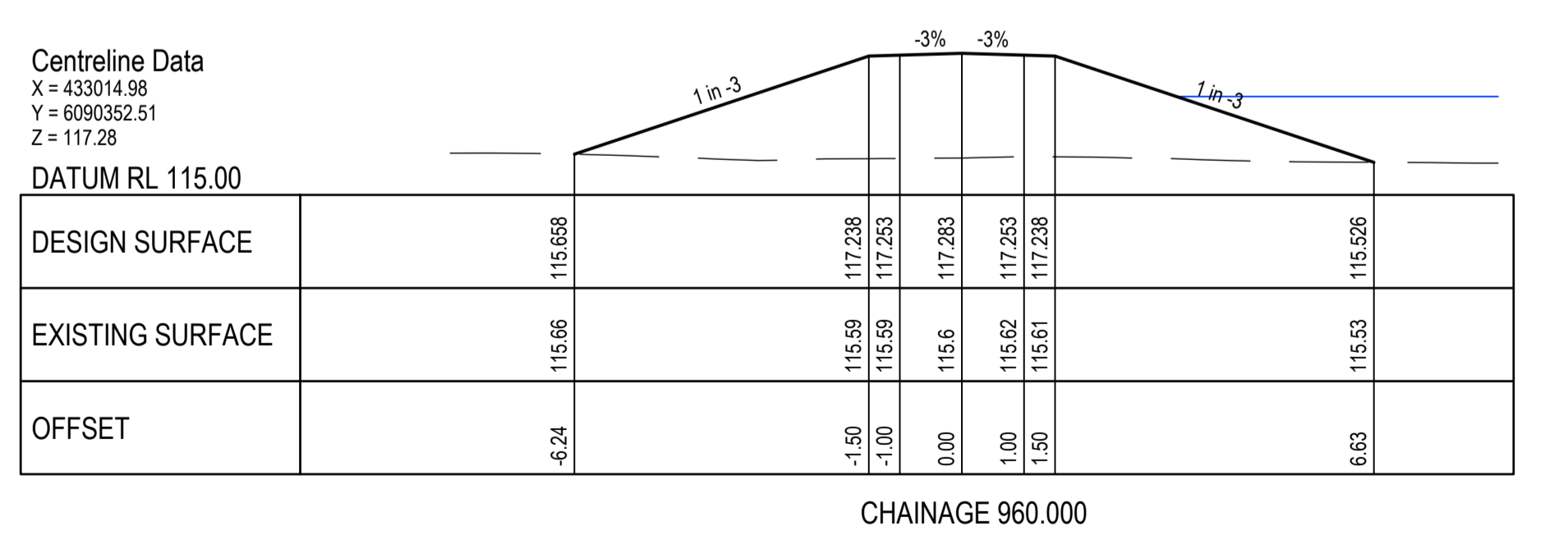
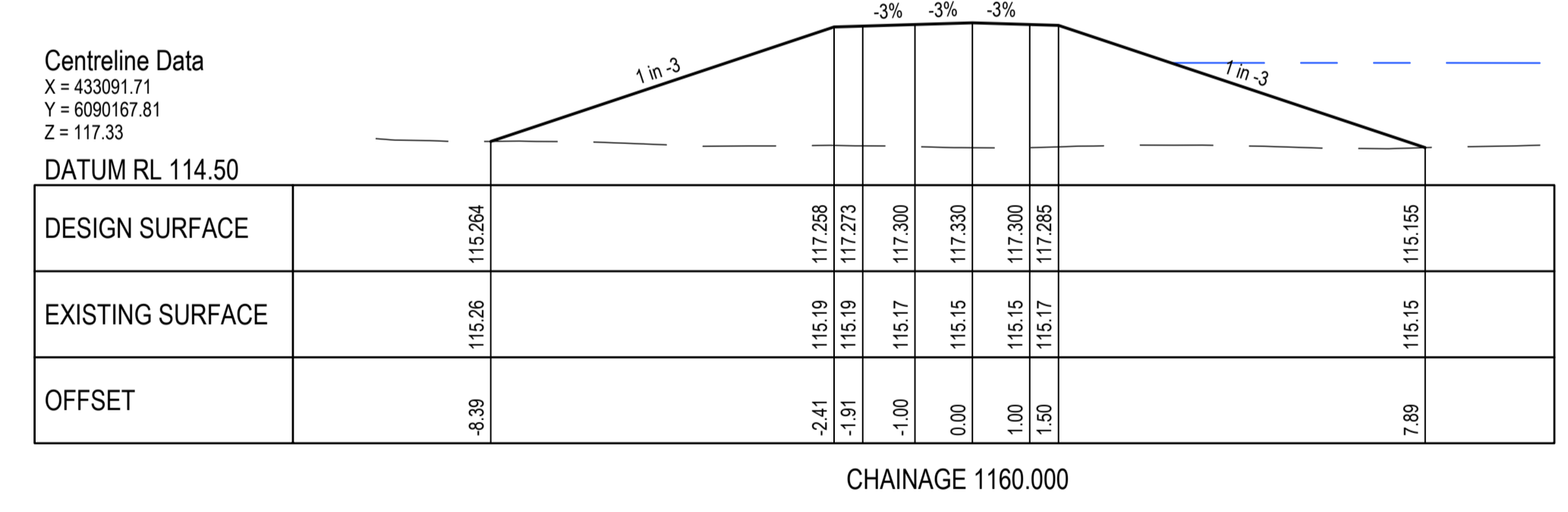
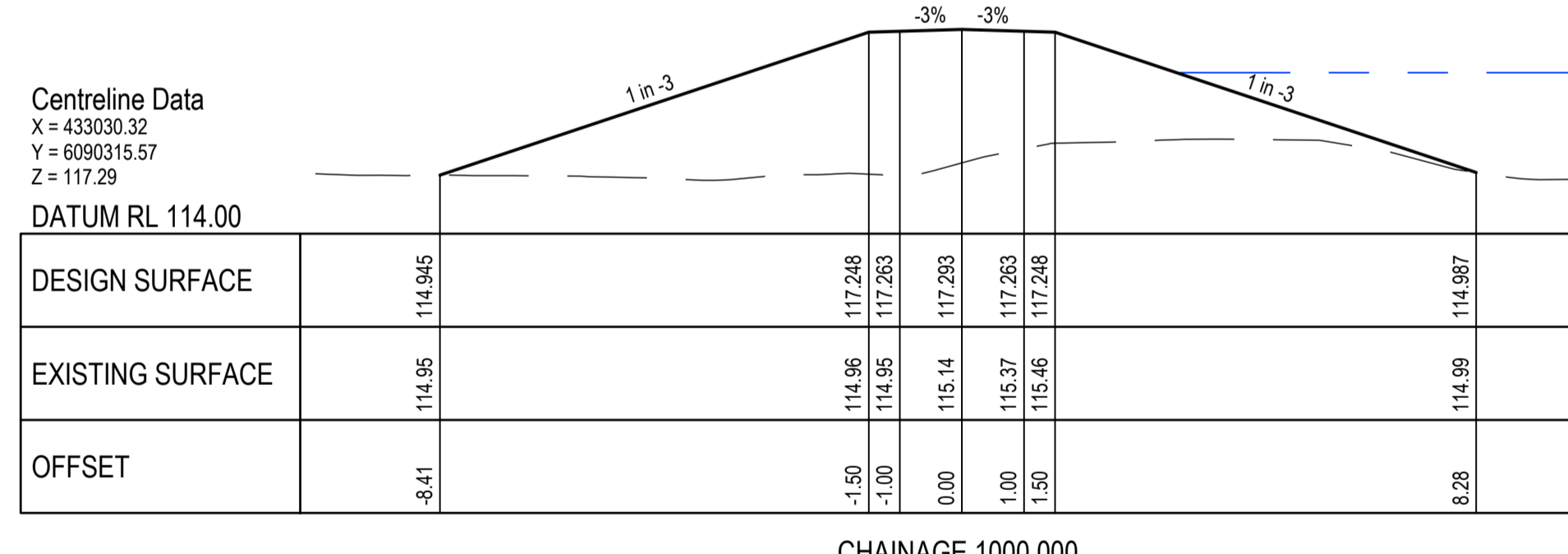
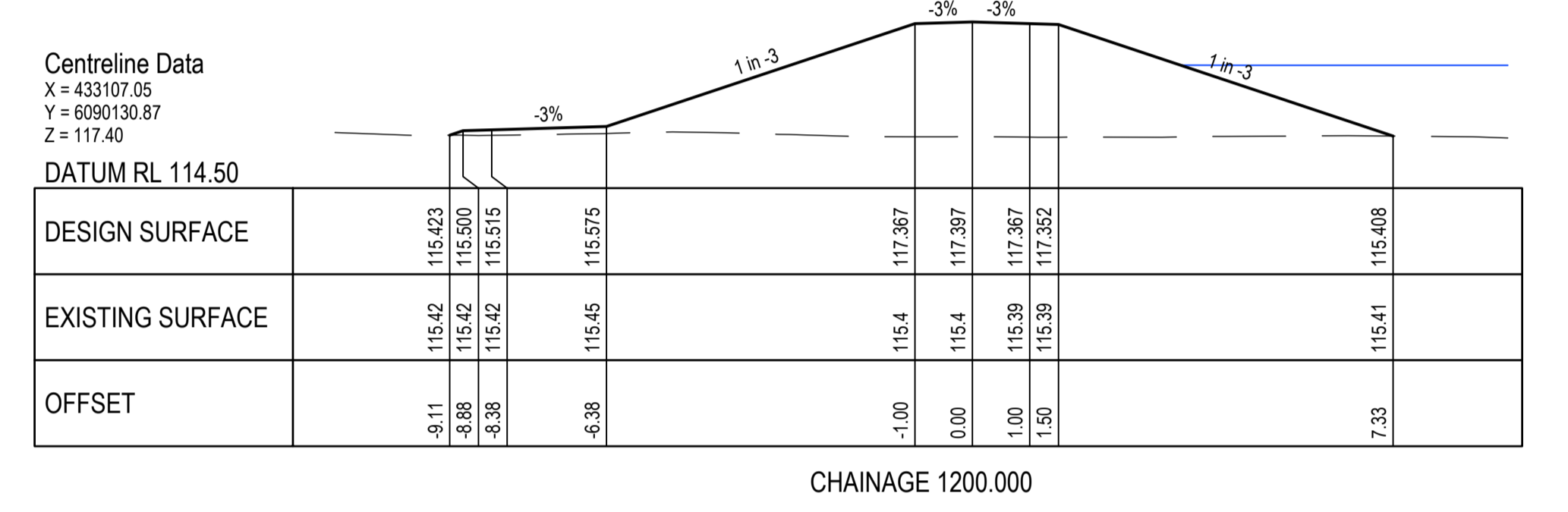
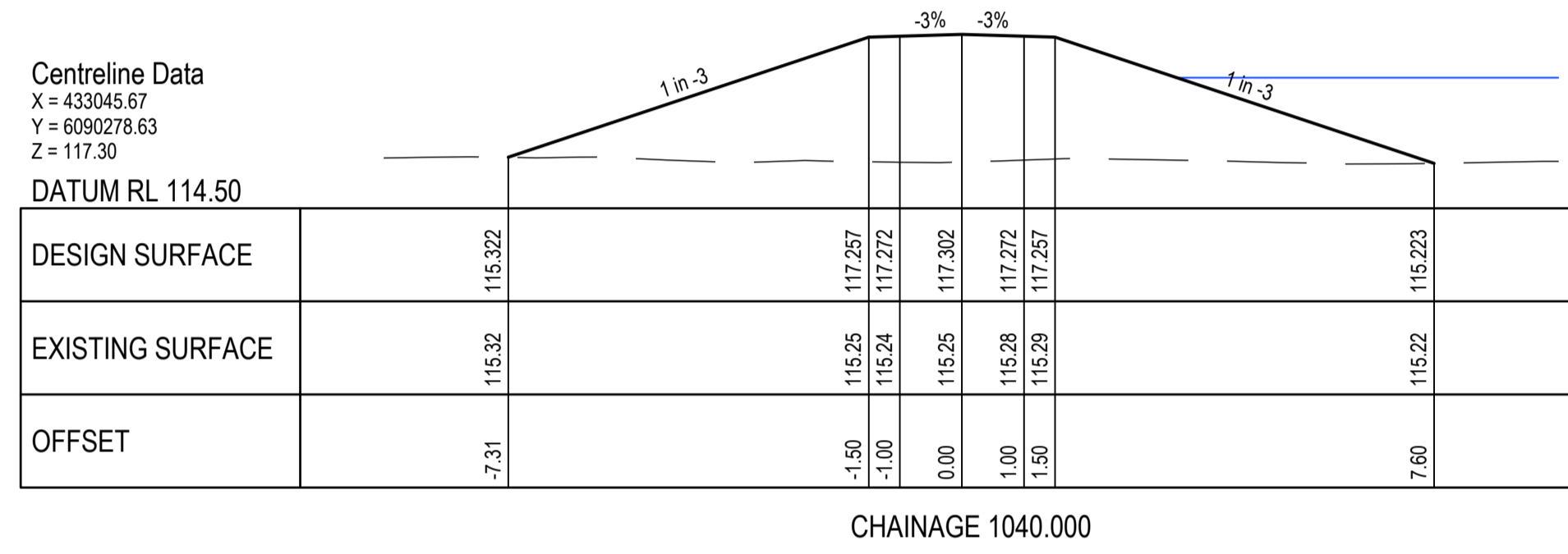
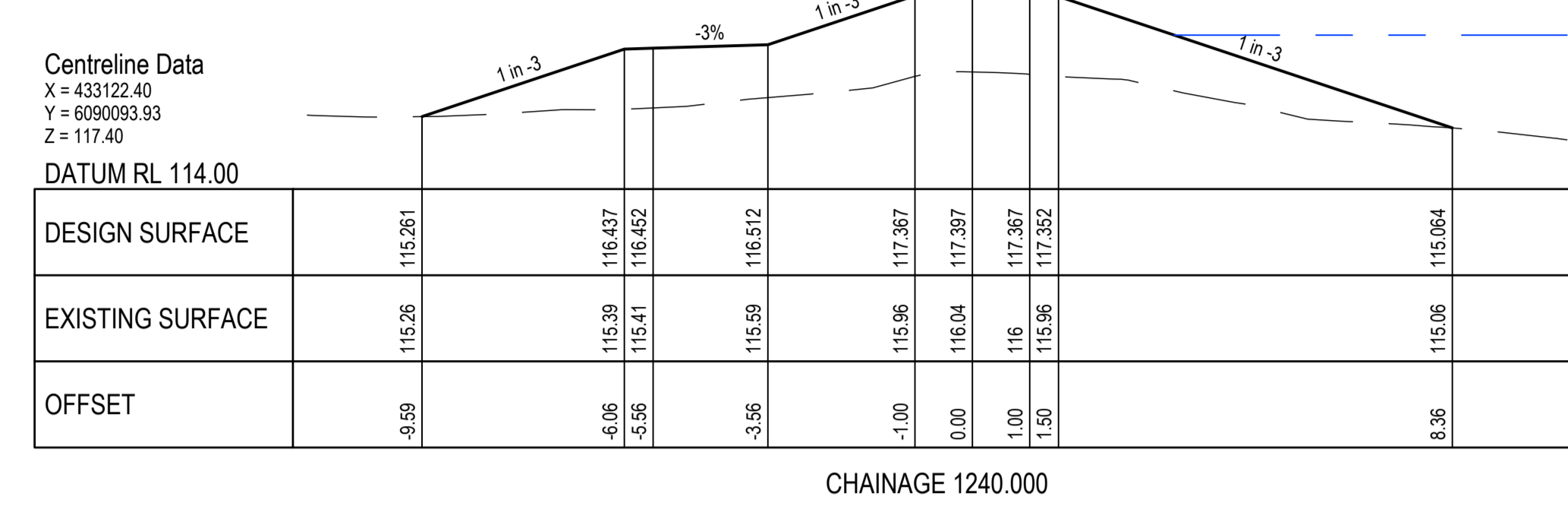
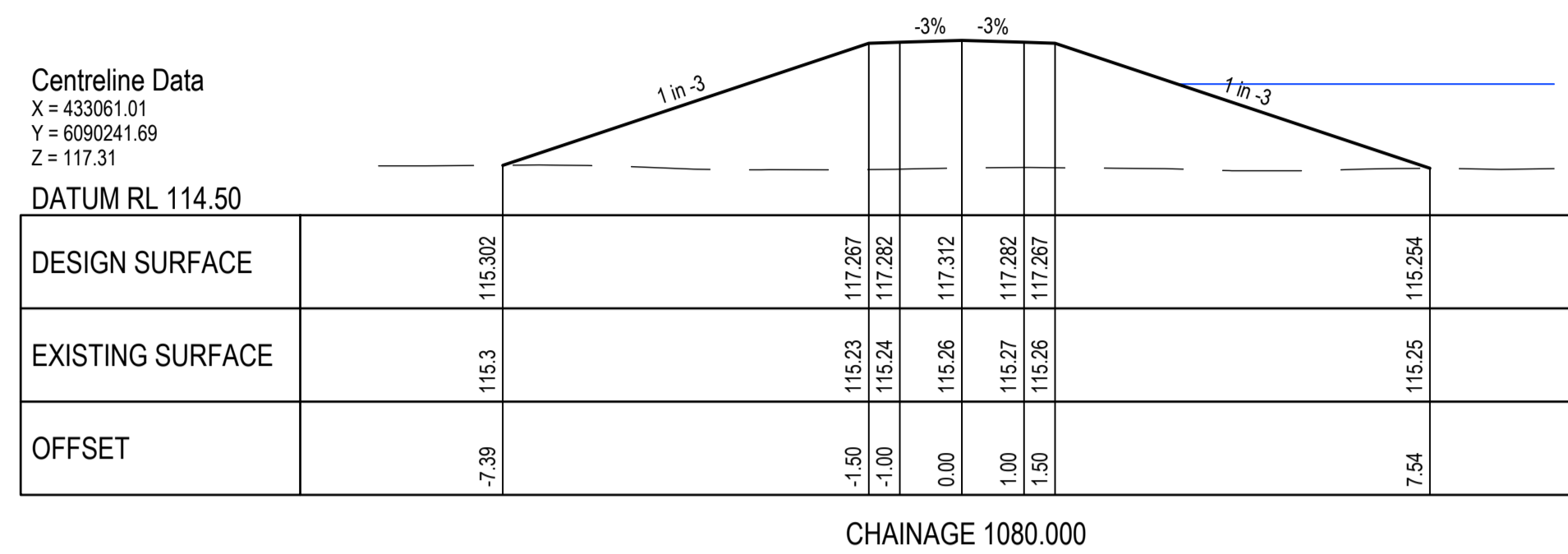
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A.WARD	26/09/2023	AS SHOWN	MAHD
DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/09/2023	GD2020	A1
DSE23029-1201			
2			



LIDAR SURFACE
 EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

LEGEND - CROSS AND LONG SECTIONS

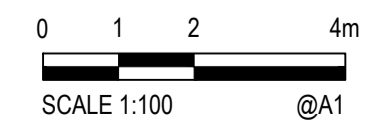
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	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE



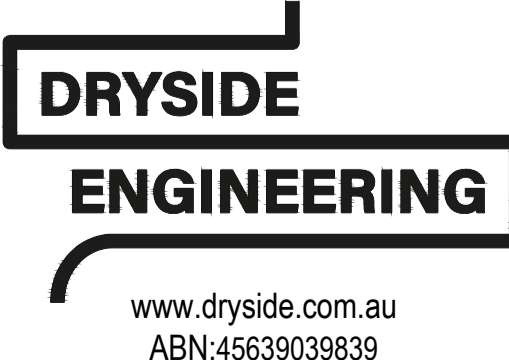
RS01 CROSS SECTIONS
 SCALE H 1:100m V 1:100m

PRELIMINARY DESIGN
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



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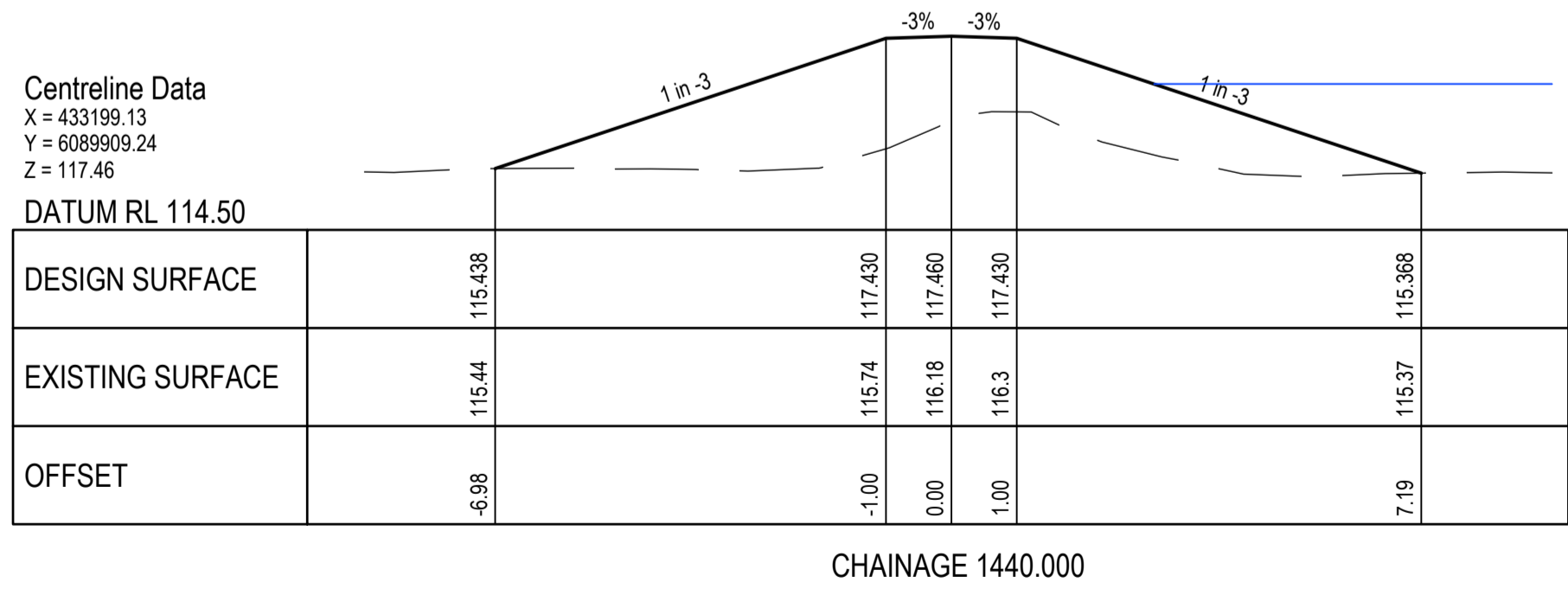
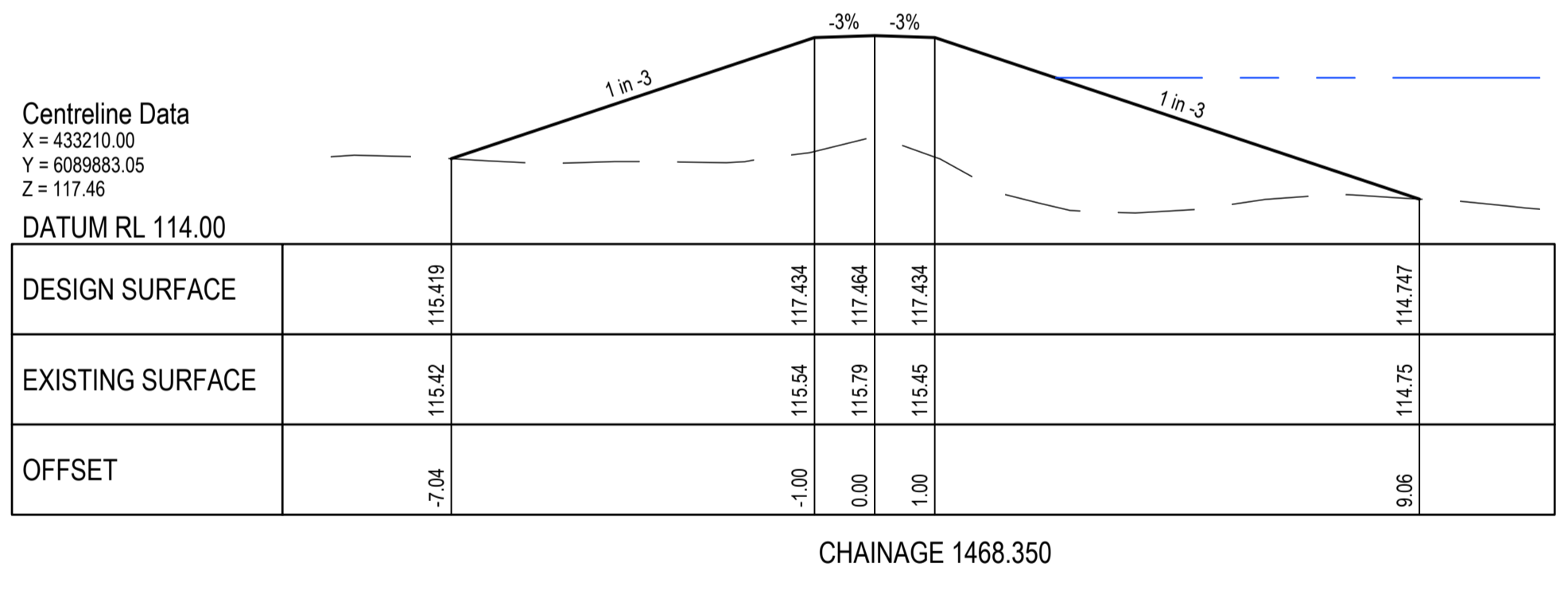
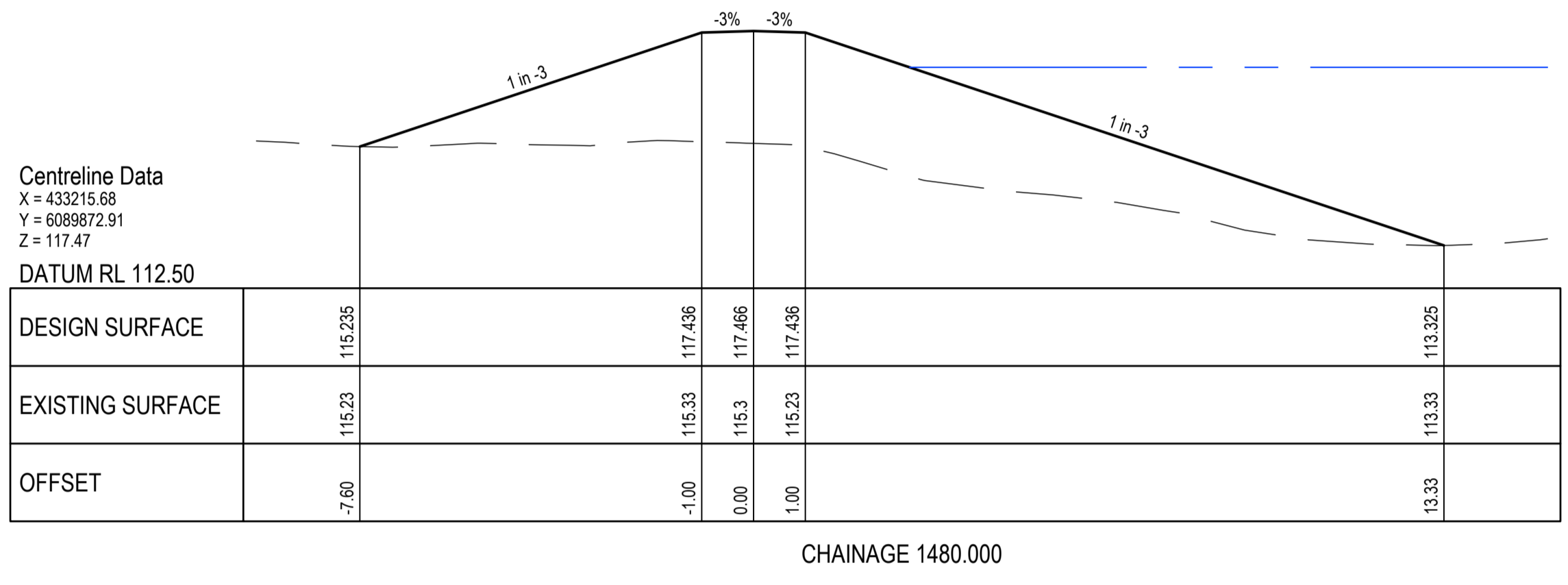
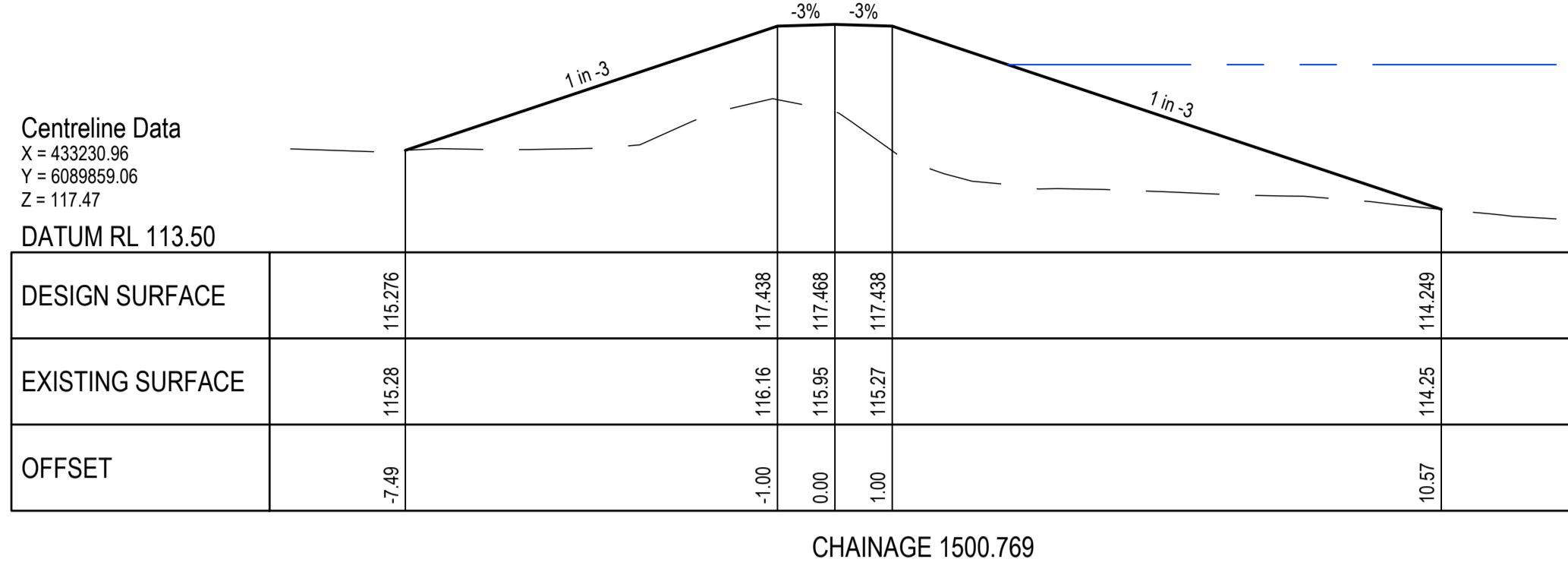
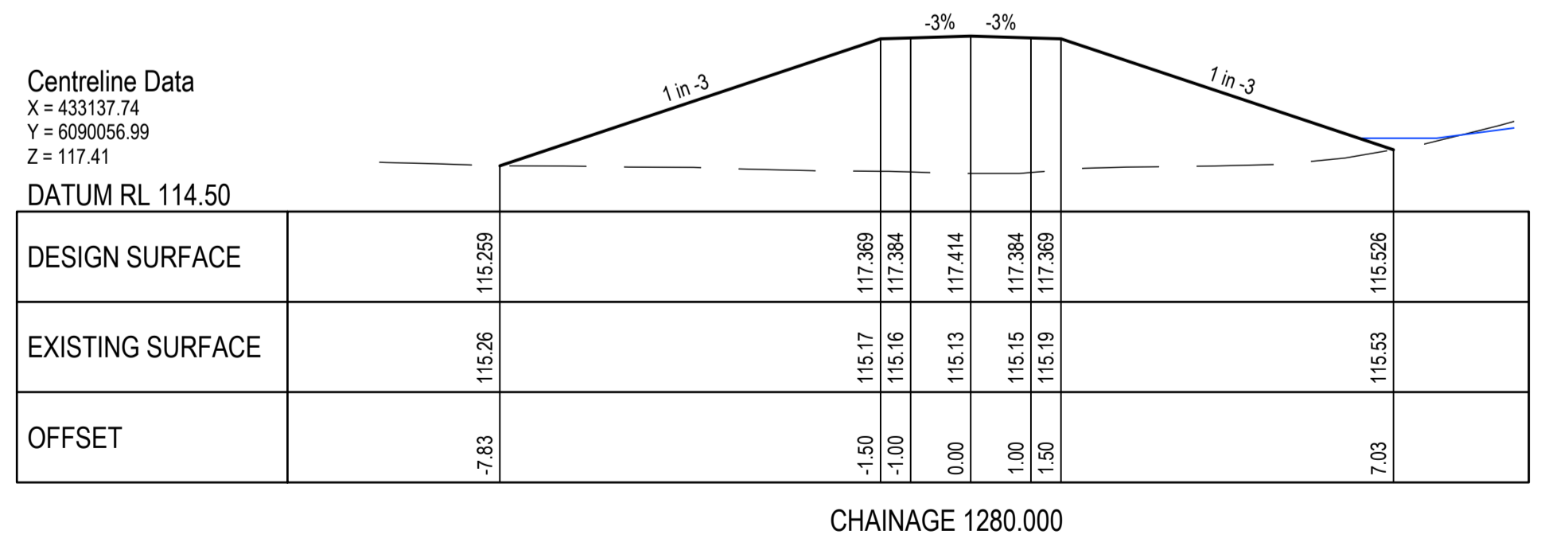
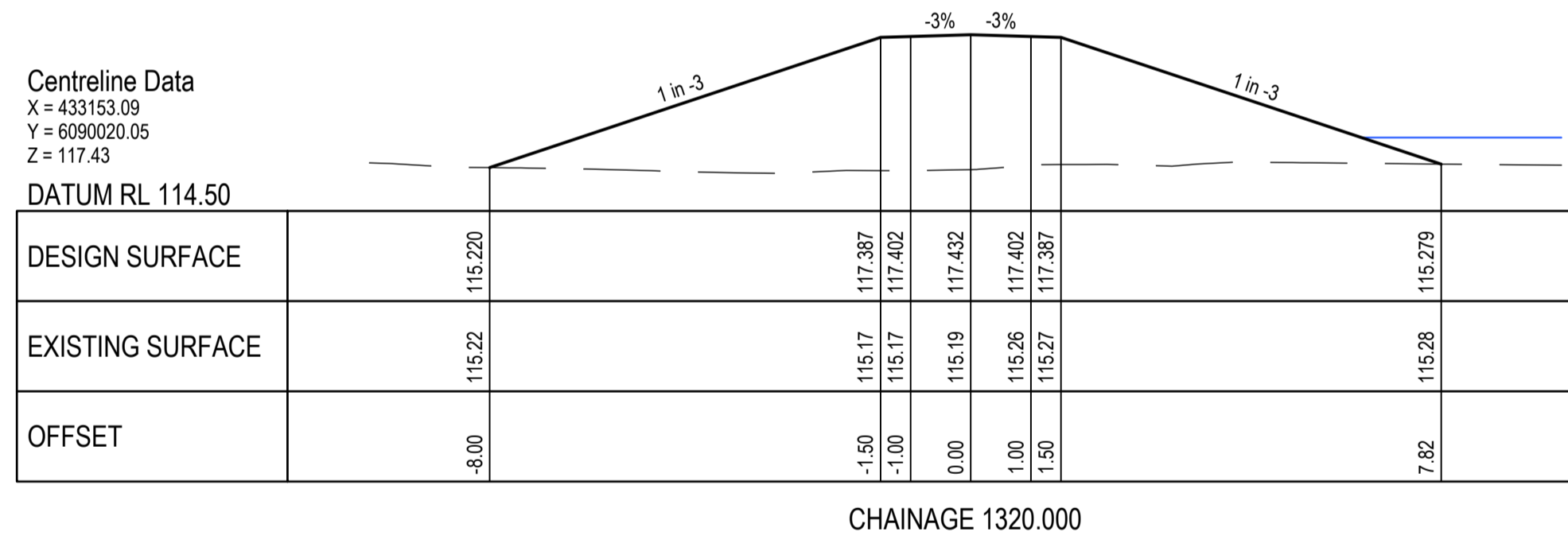
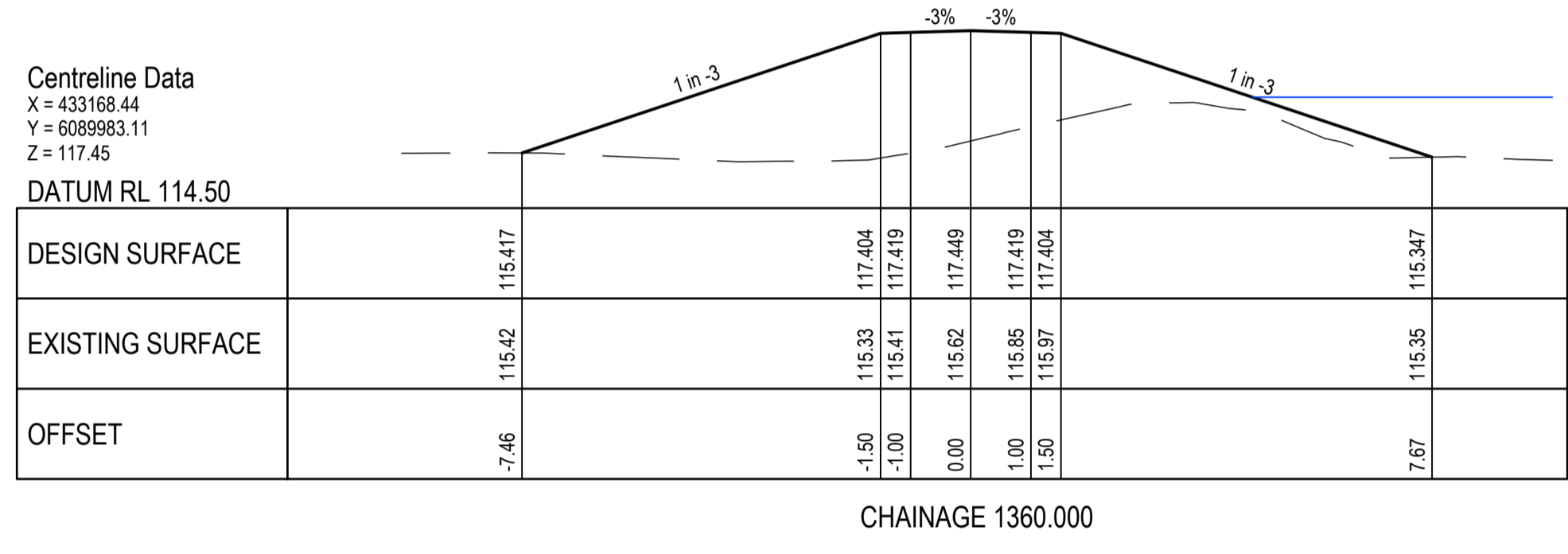
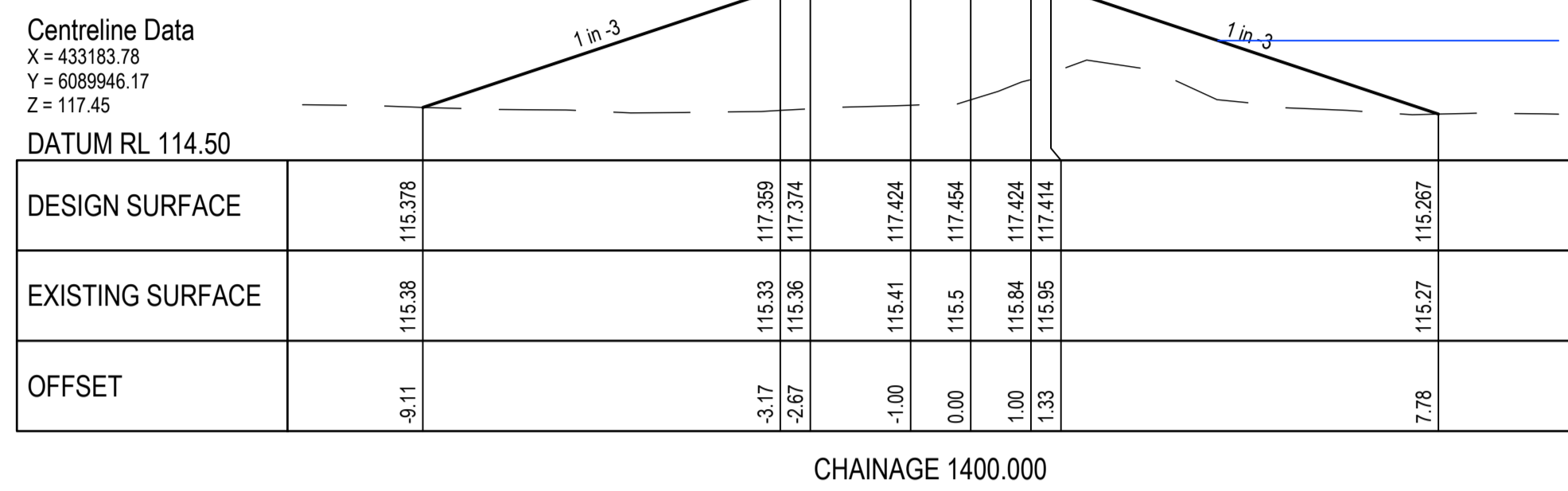
FEDERATION COUNCIL
 URANA LEVEE UPGRADE WORKS
 BROUGONG STREET
 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE CROSS SECTIONS
 SHEET 3 OF 8

DRAWN	A.WARD	DATE	26/09/2023	SCALE	AS SHOWN	DATUM	MAHD
DESIGNED	A.WARD	DATE	26/09/2023	PROJECTION	GD2020	SHEET SIZE	A1
DSE23029-1202							2

LIDAR SURFACE
 EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

LEGEND - CROSS AND LONG SECTIONS

	FINISHED SURFACE PROFILE
	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE

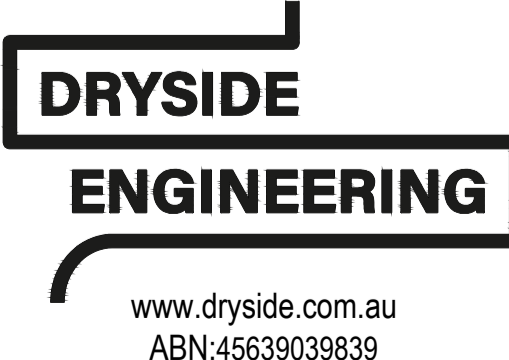


RS01 CROSS SECTIONS
 SCALE H 1:100m V 1:100m

PRELIMINARY DESIGN
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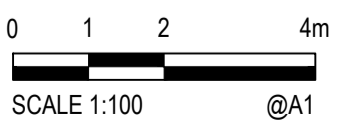


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FEDERATION COUNCIL
 URANA LEVEE UPGRADE WORKS
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 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE CROSS SECTIONS
 SHEET 4 OF 8

DRAWN A.WARD	DATE 26/09/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 26/09/2023	PROJECTION GD2020	SHEET SIZE A1
DSE23029-1203			2

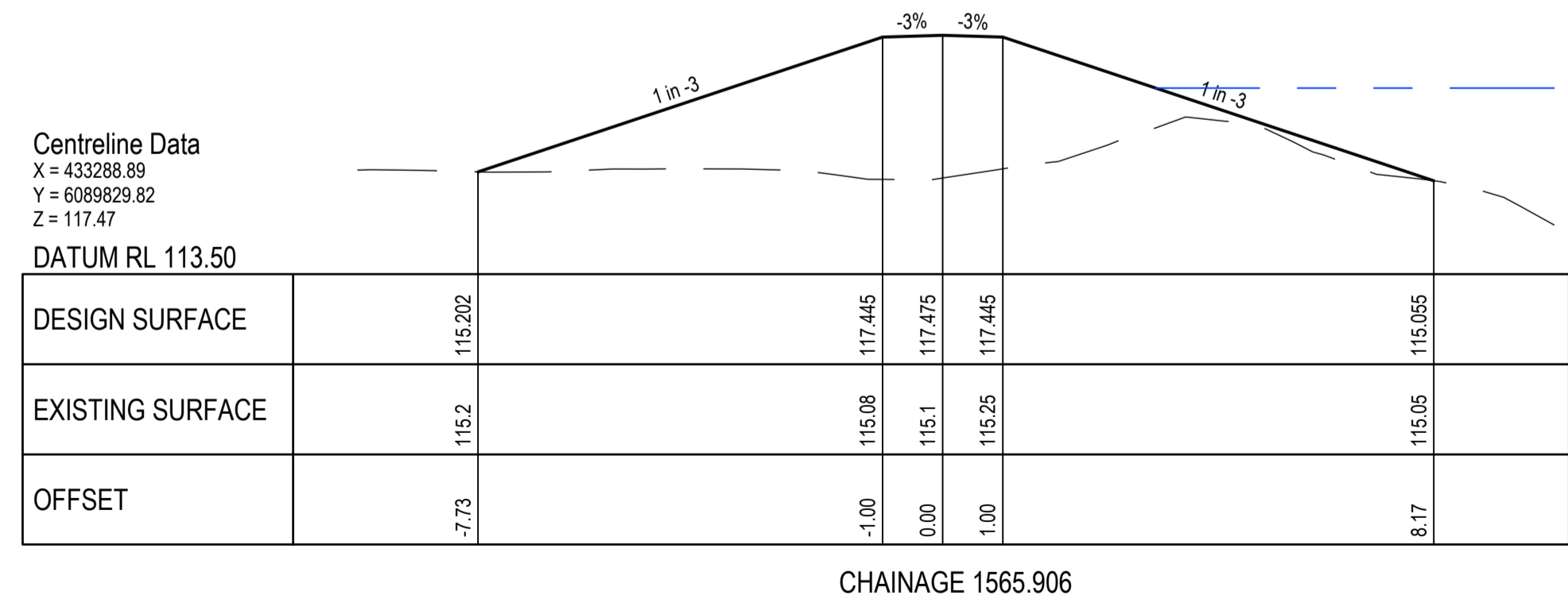
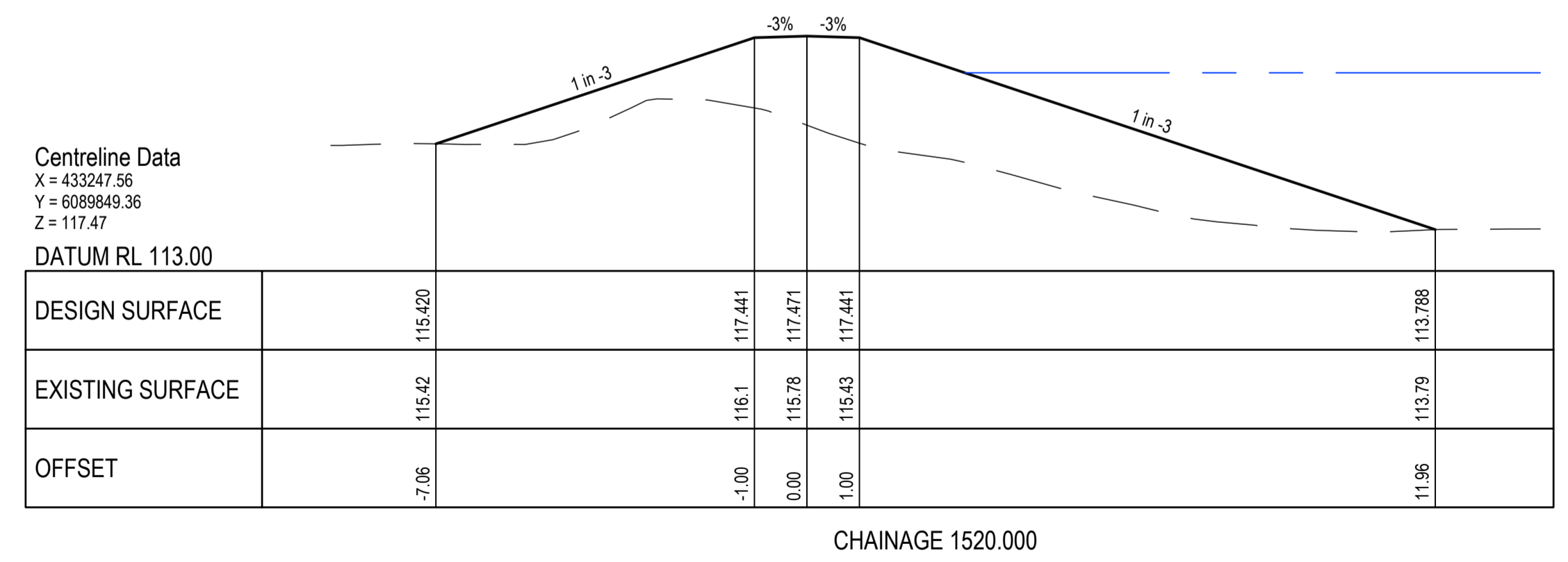
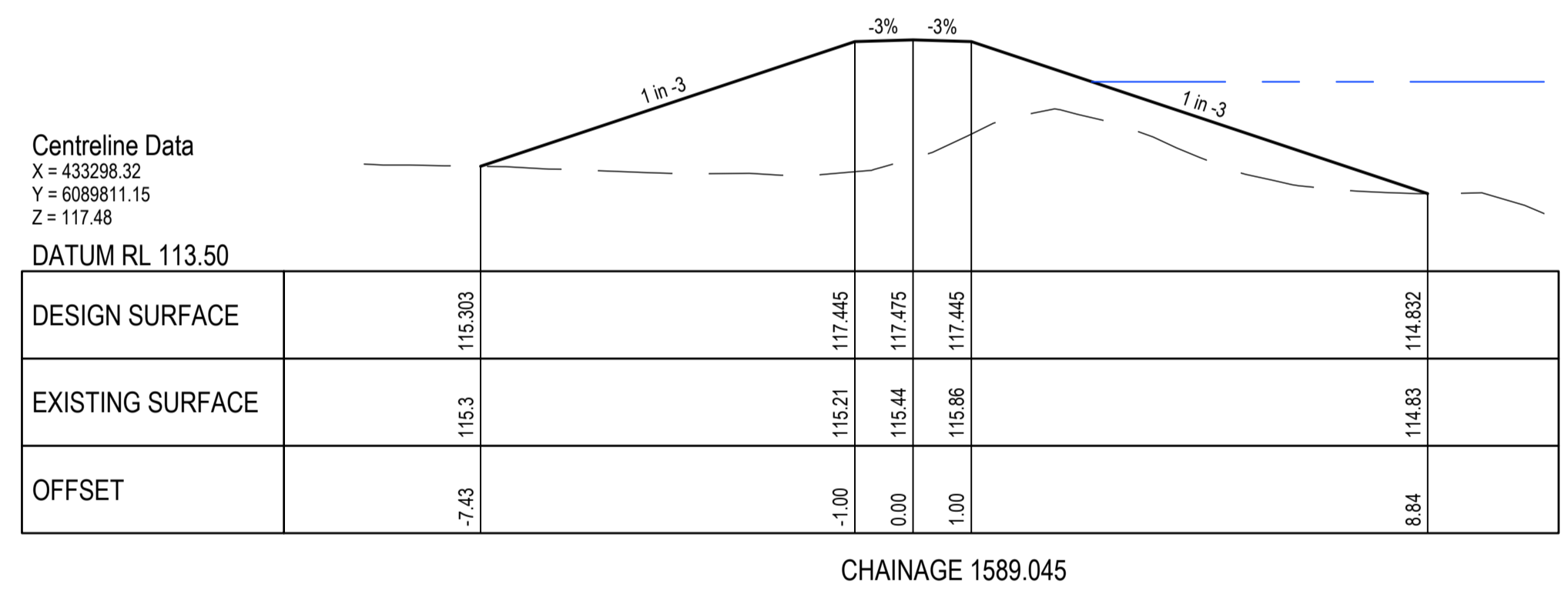
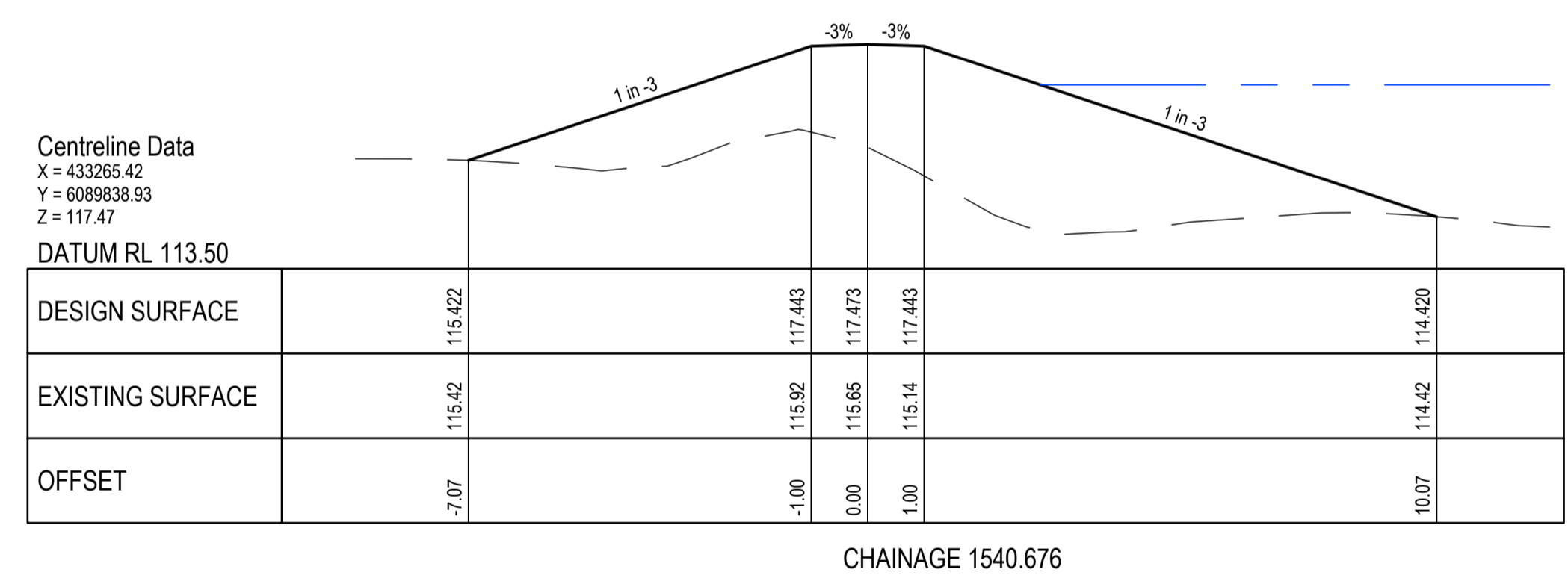
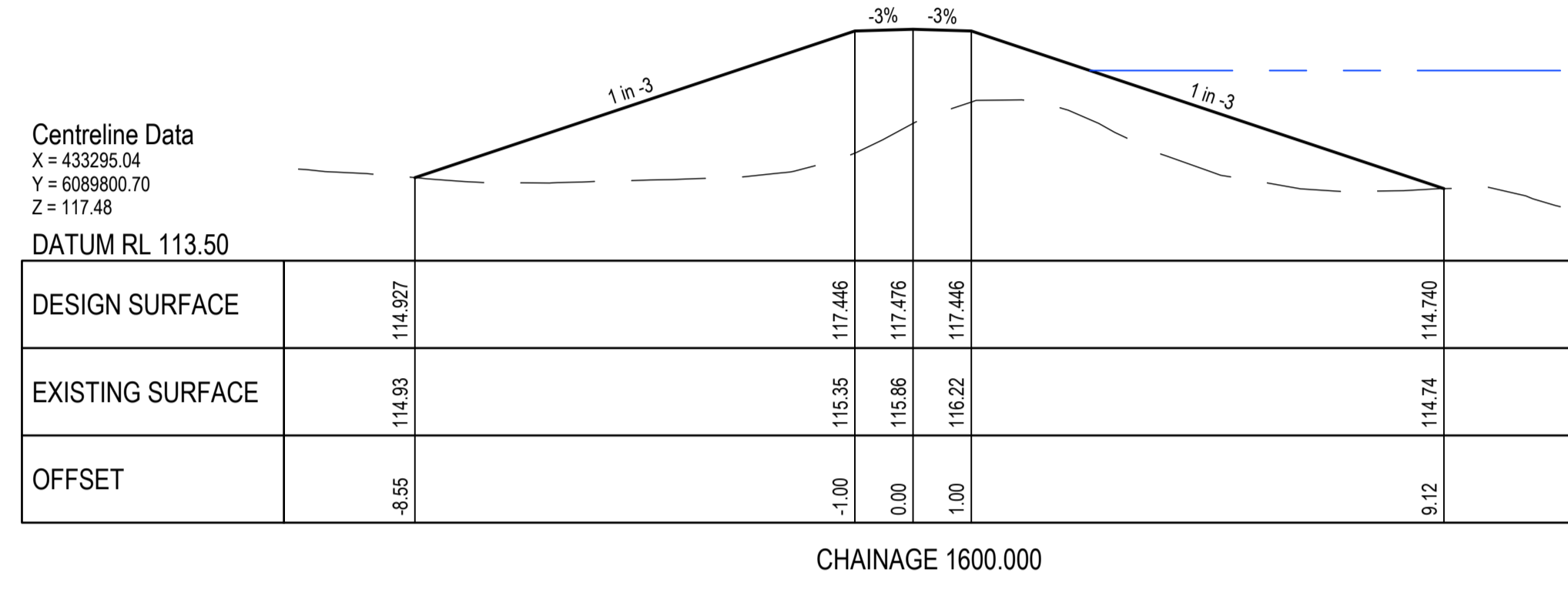
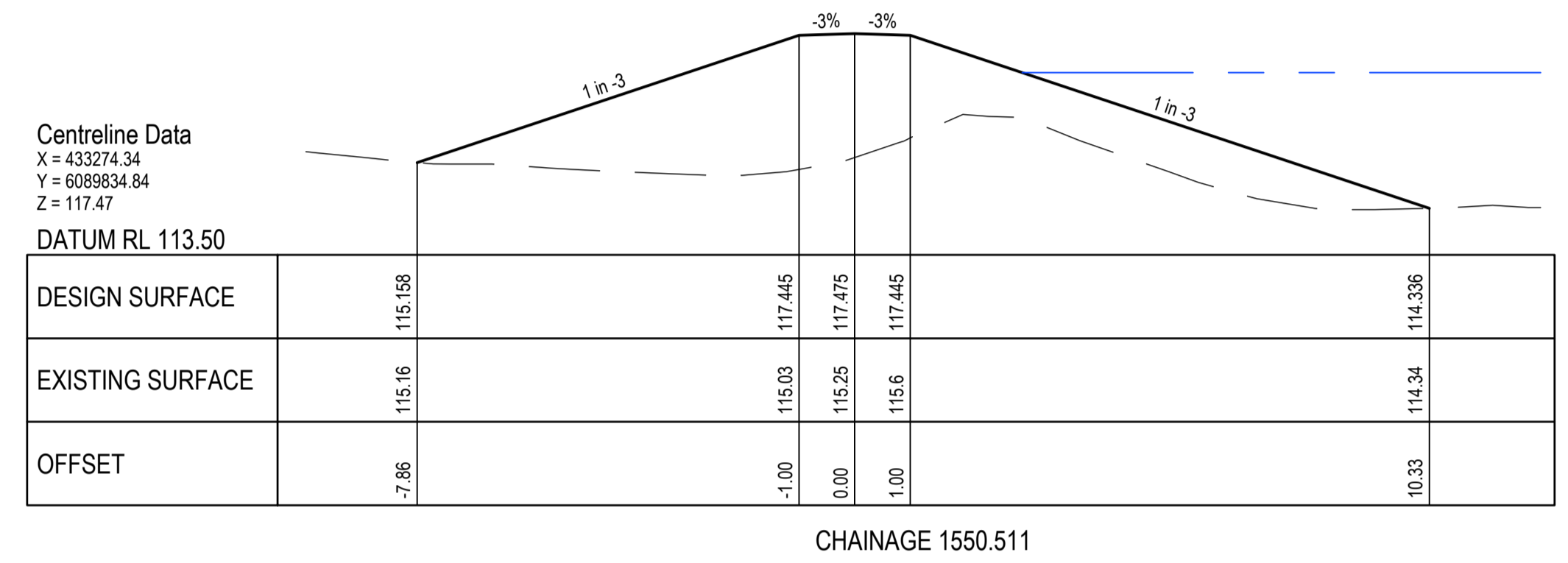
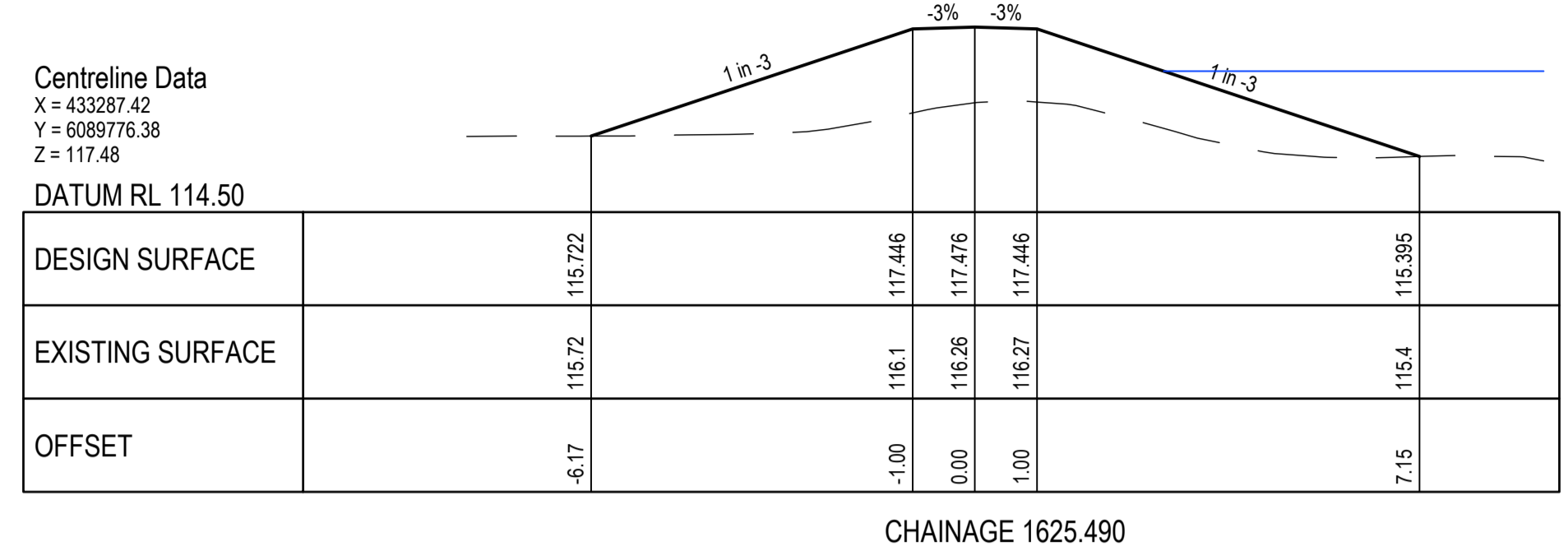
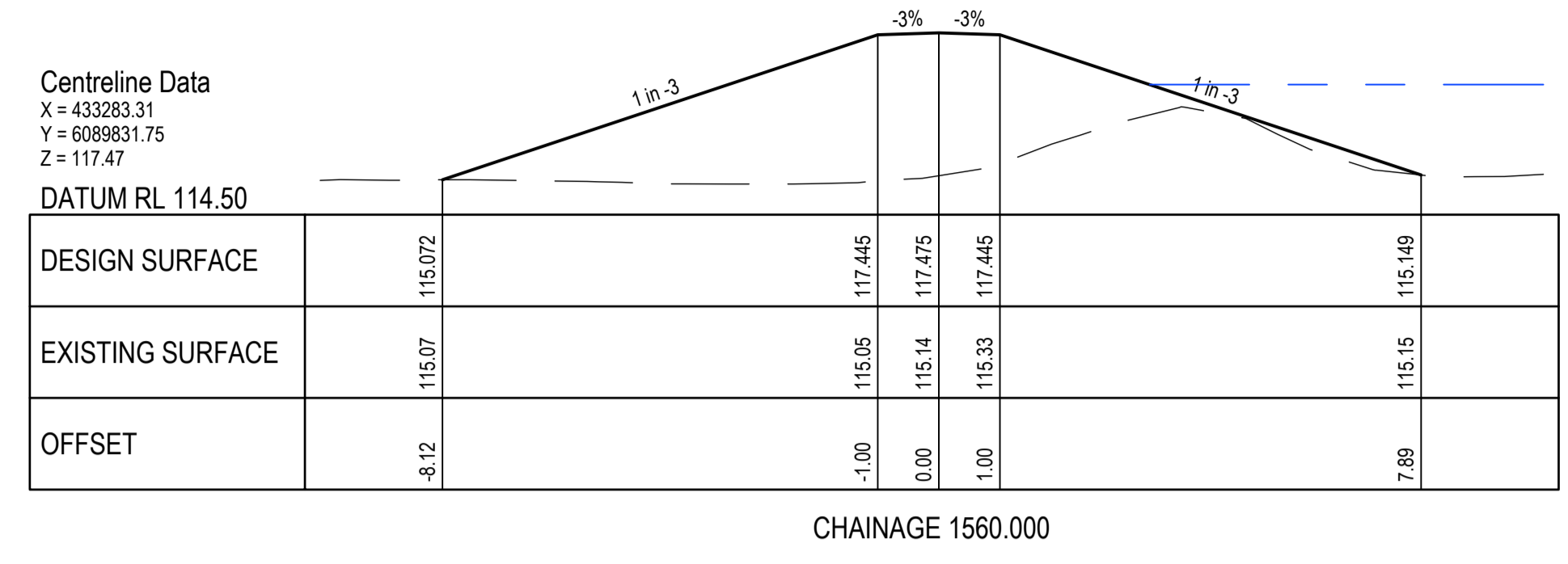
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



LIDAR SURFACE
 EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

LEGEND - CROSS AND LONG SECTIONS

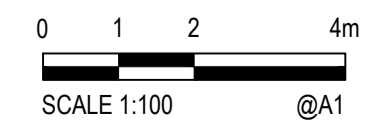
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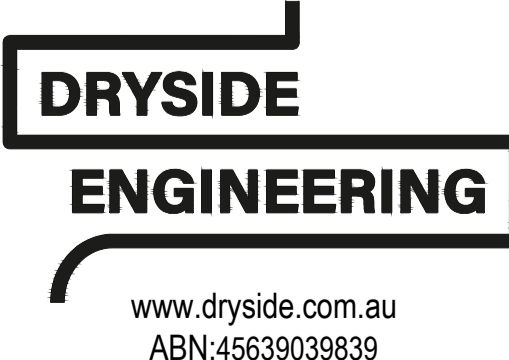
RS01 CROSS SECTIONS
 SCALE H 1:100m V 1:100m

PRELIMINARY DESIGN
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	DES	VER	APP
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



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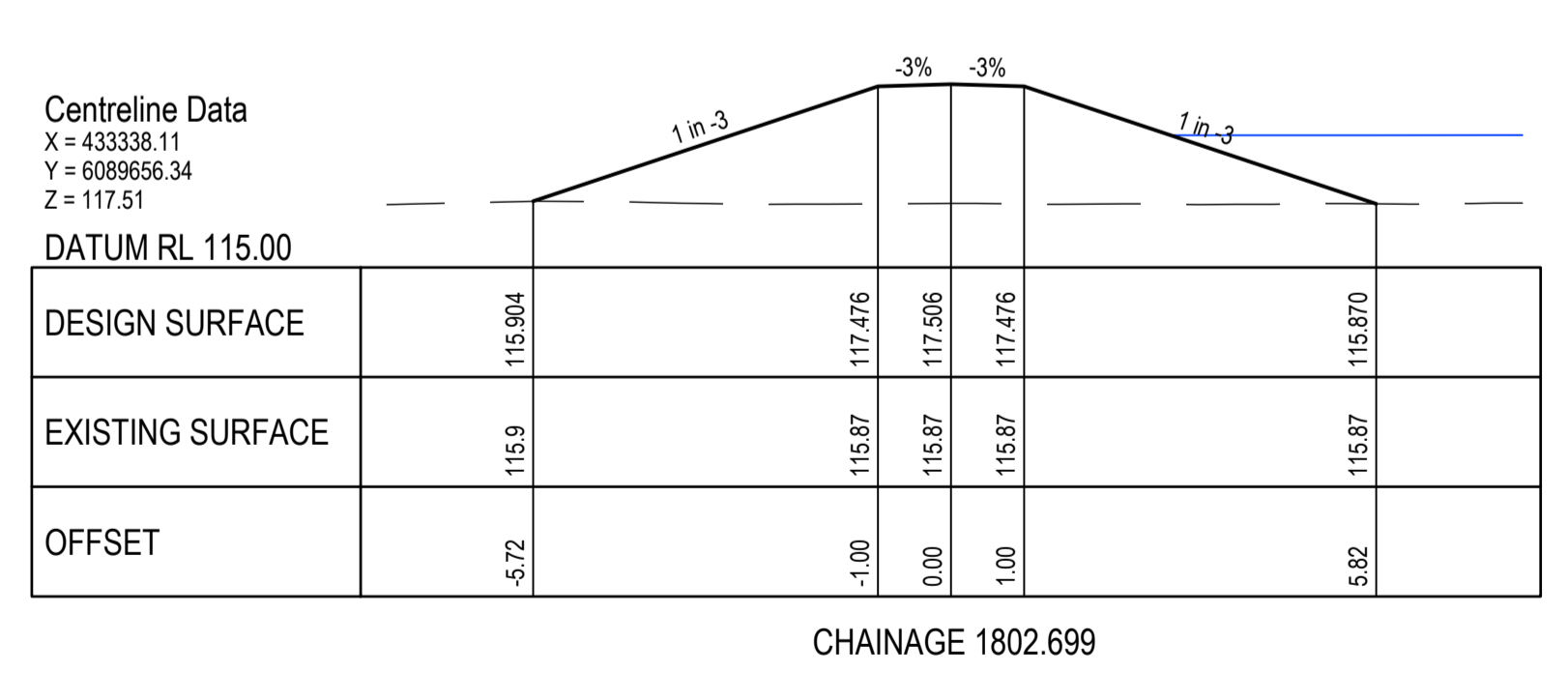
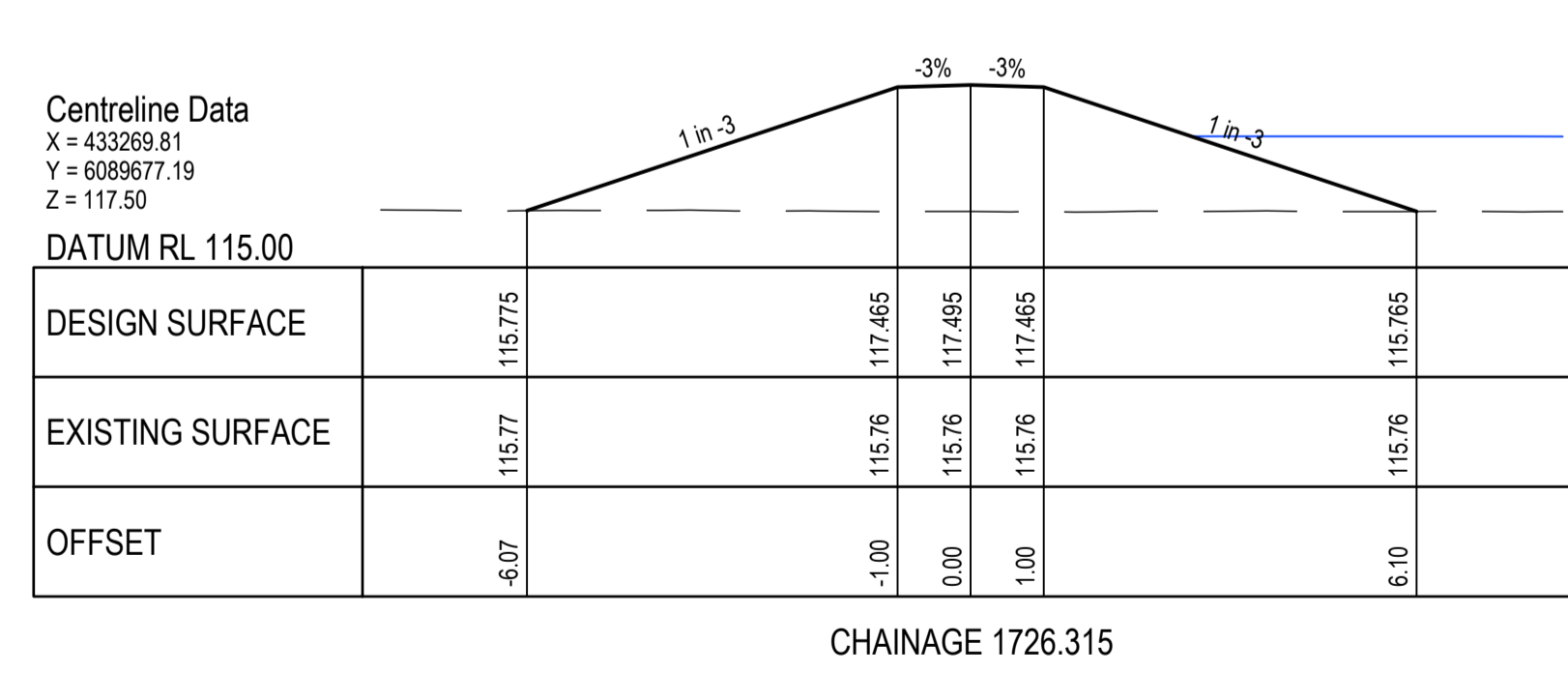
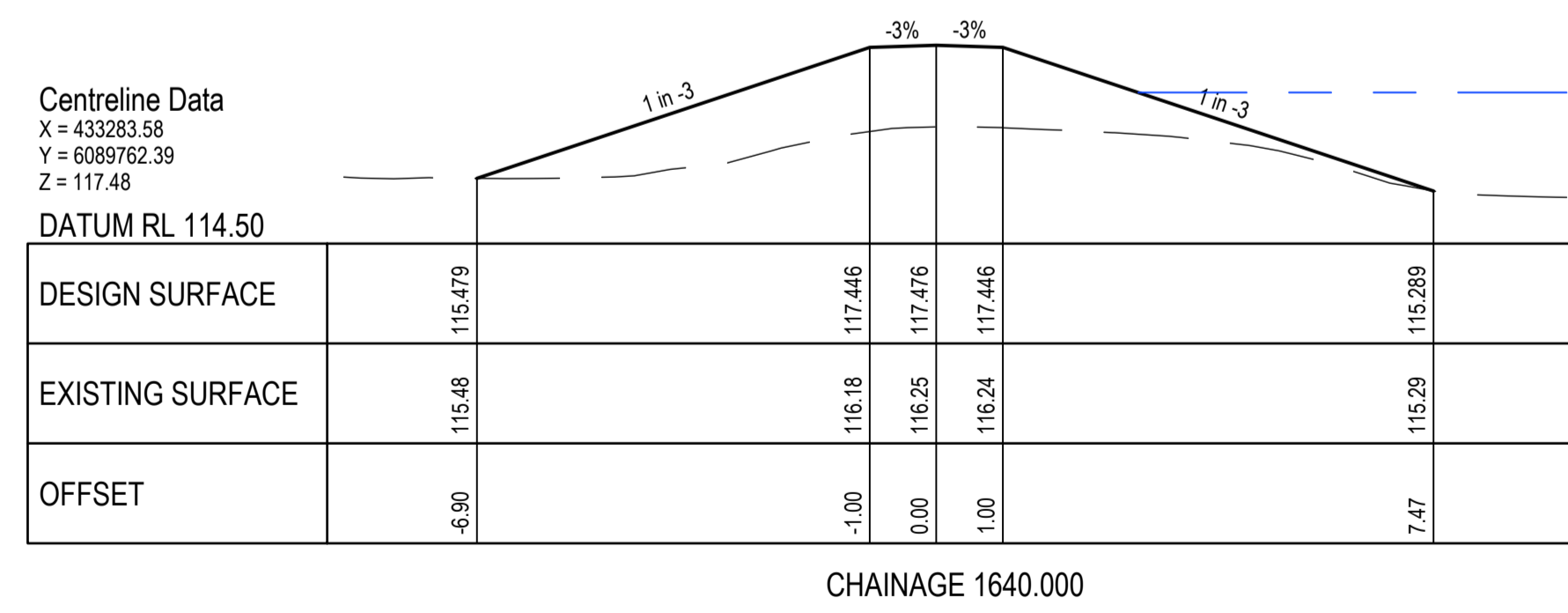
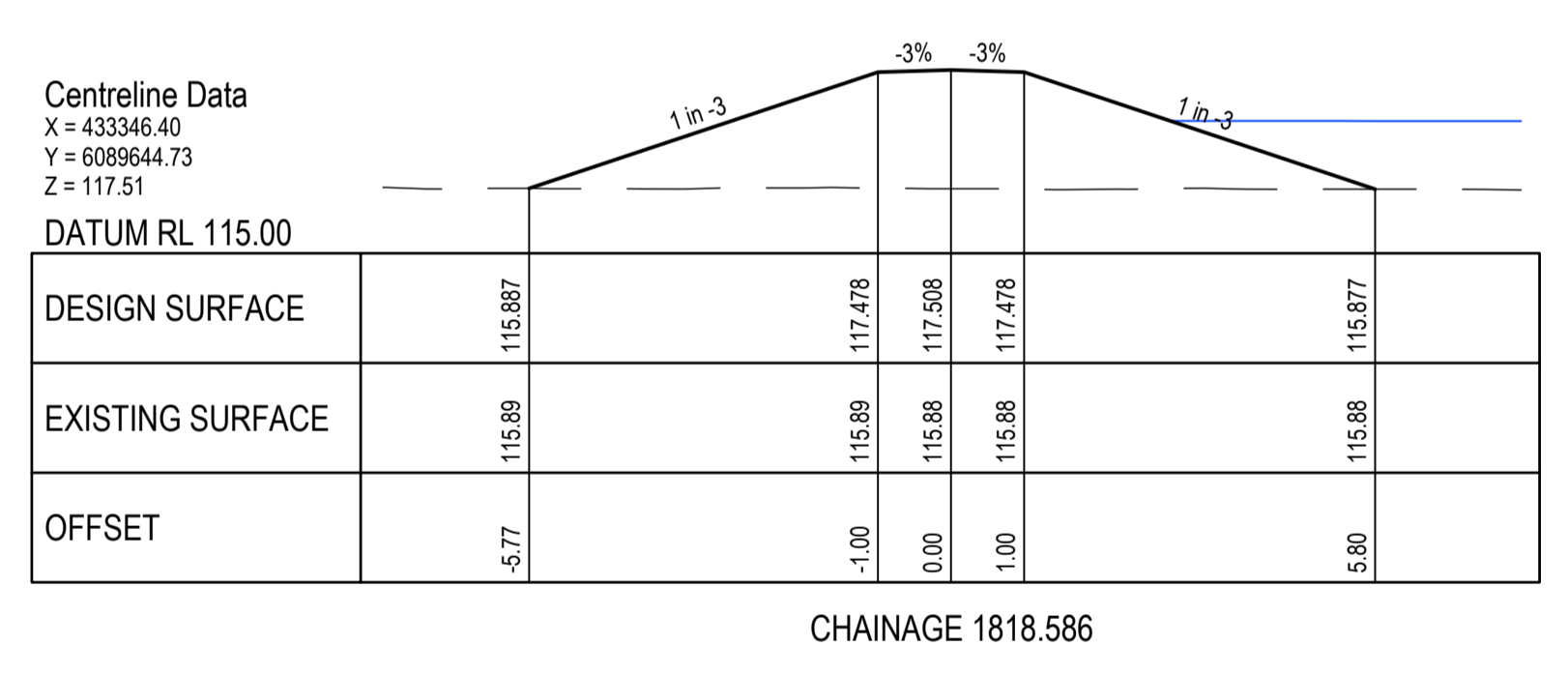
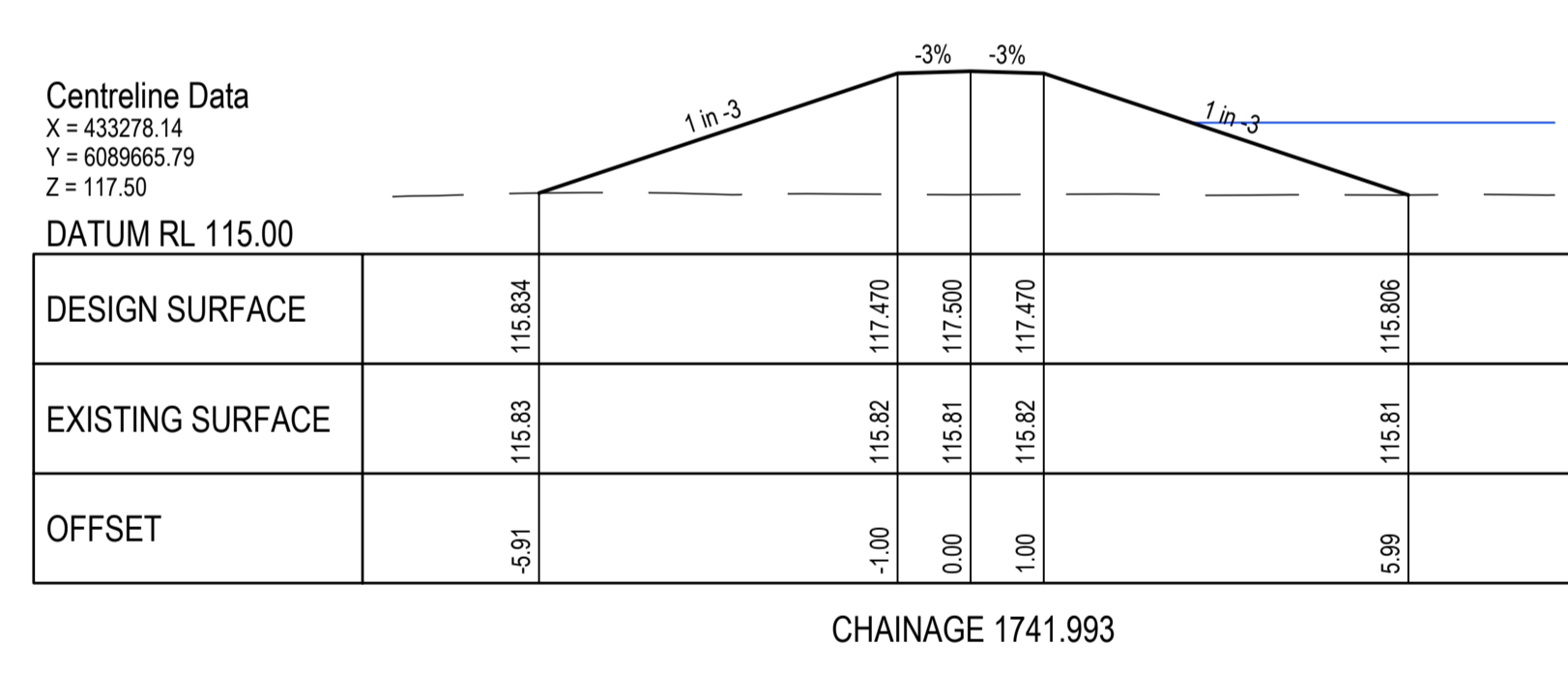
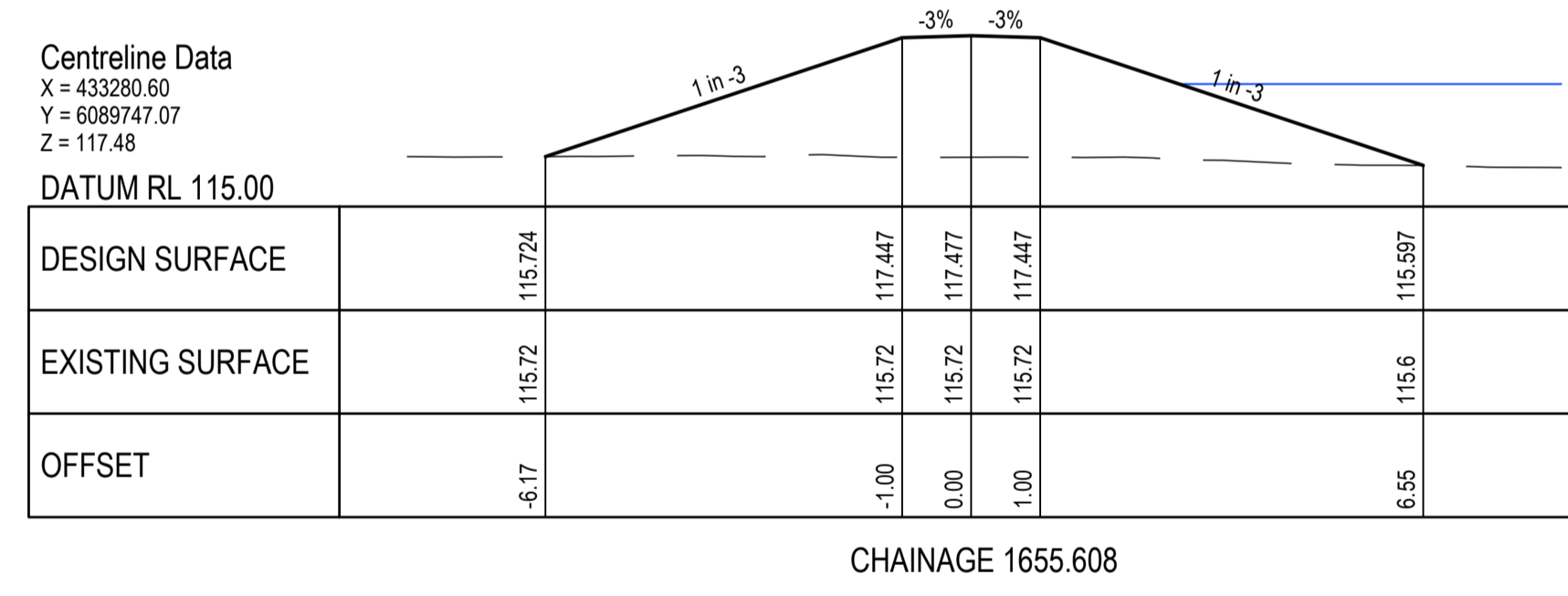
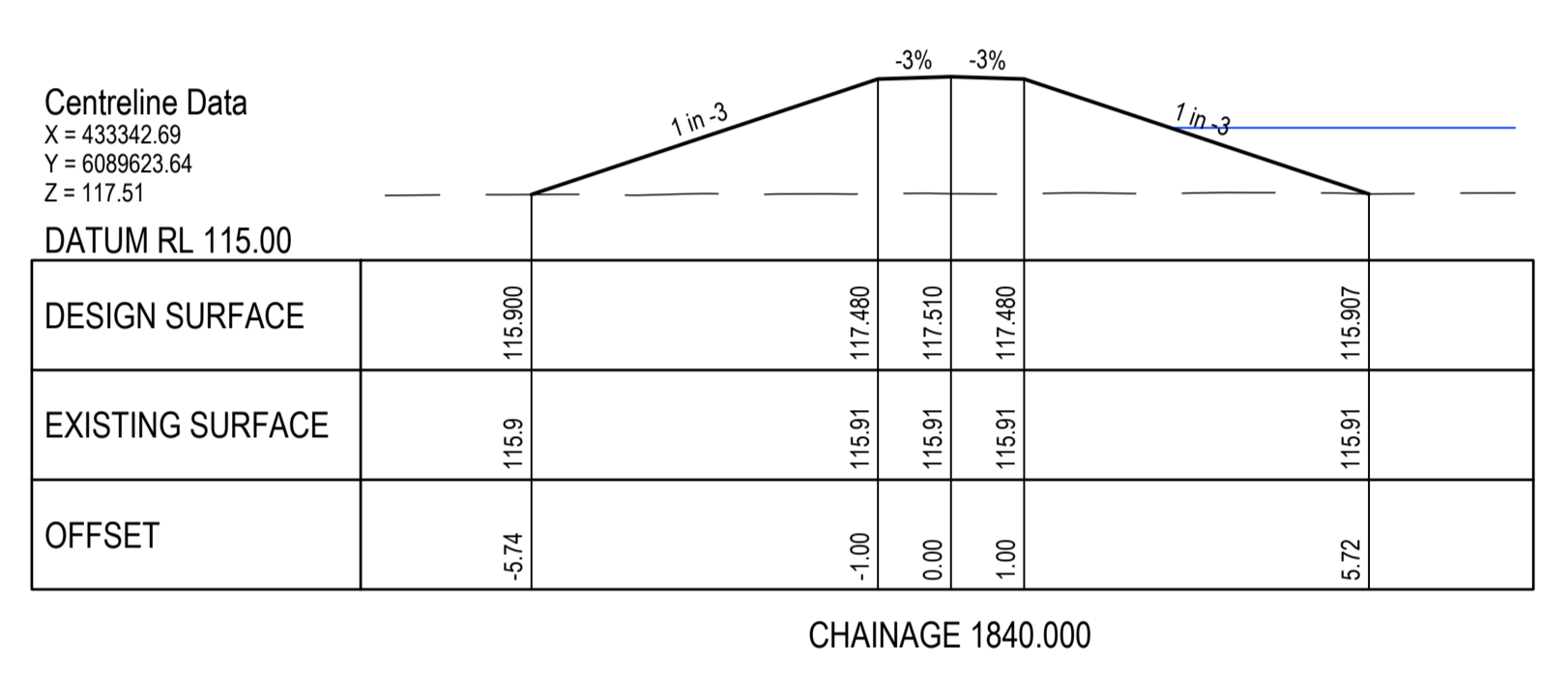
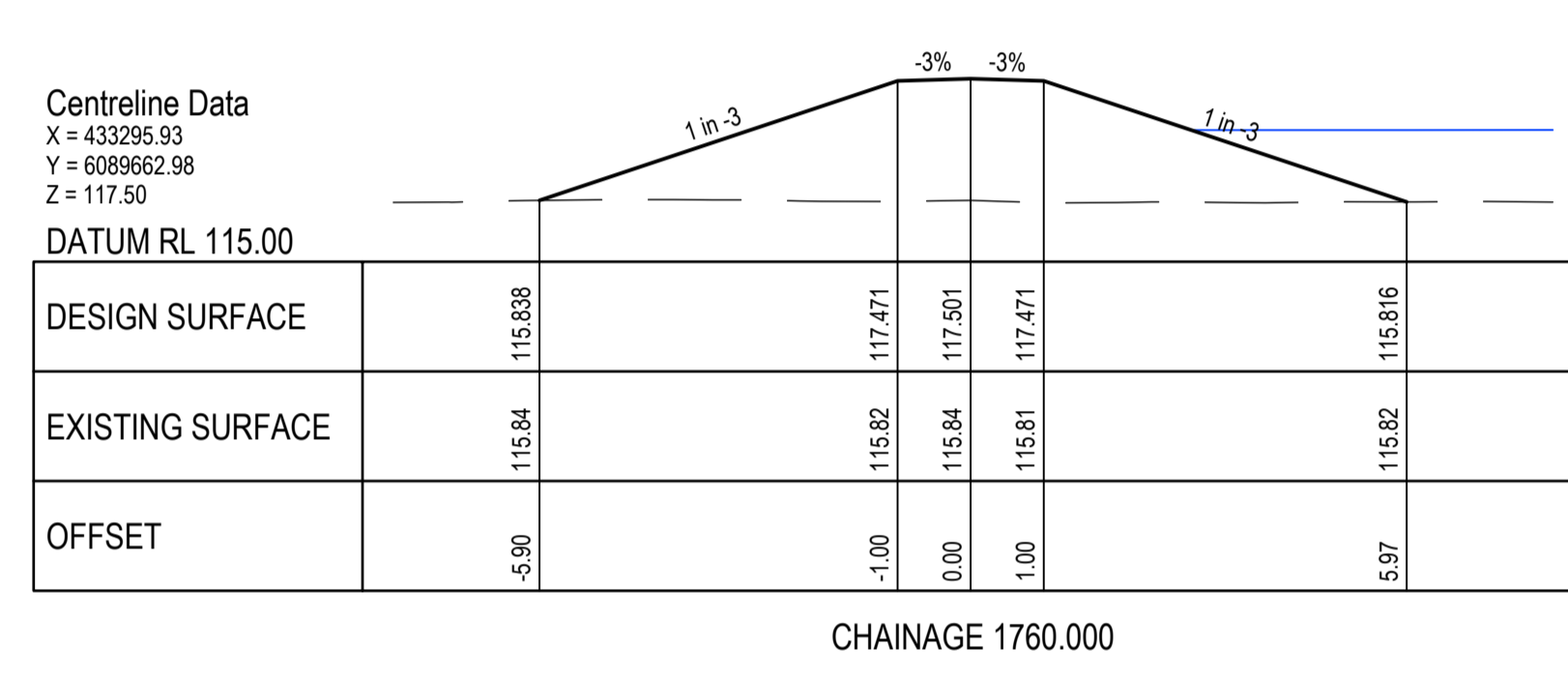
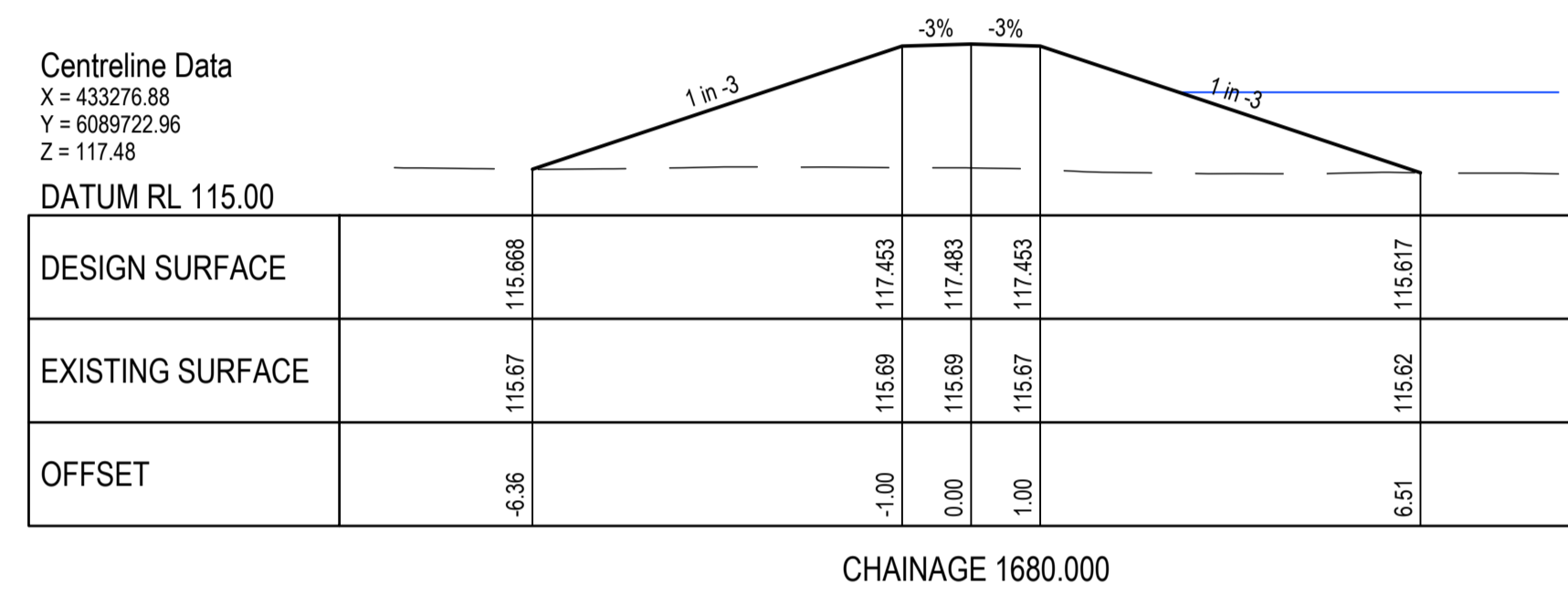
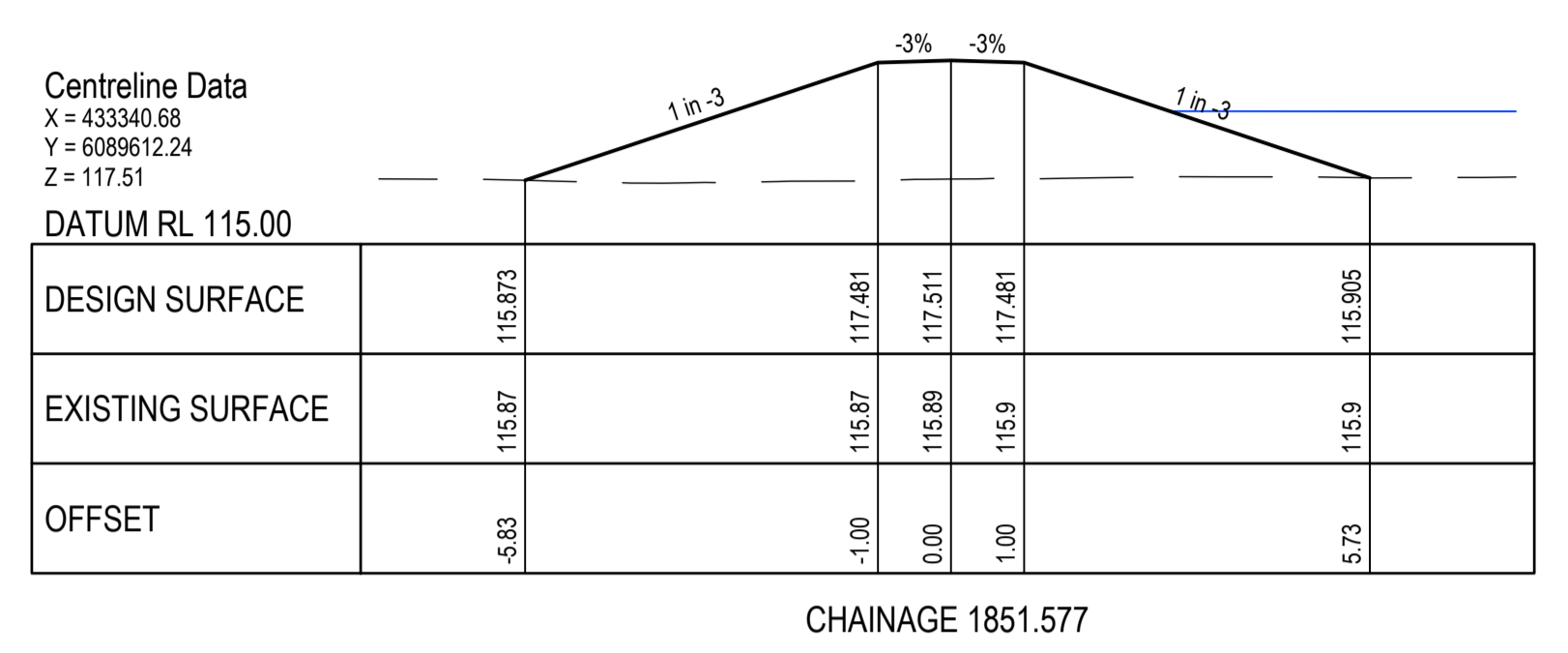
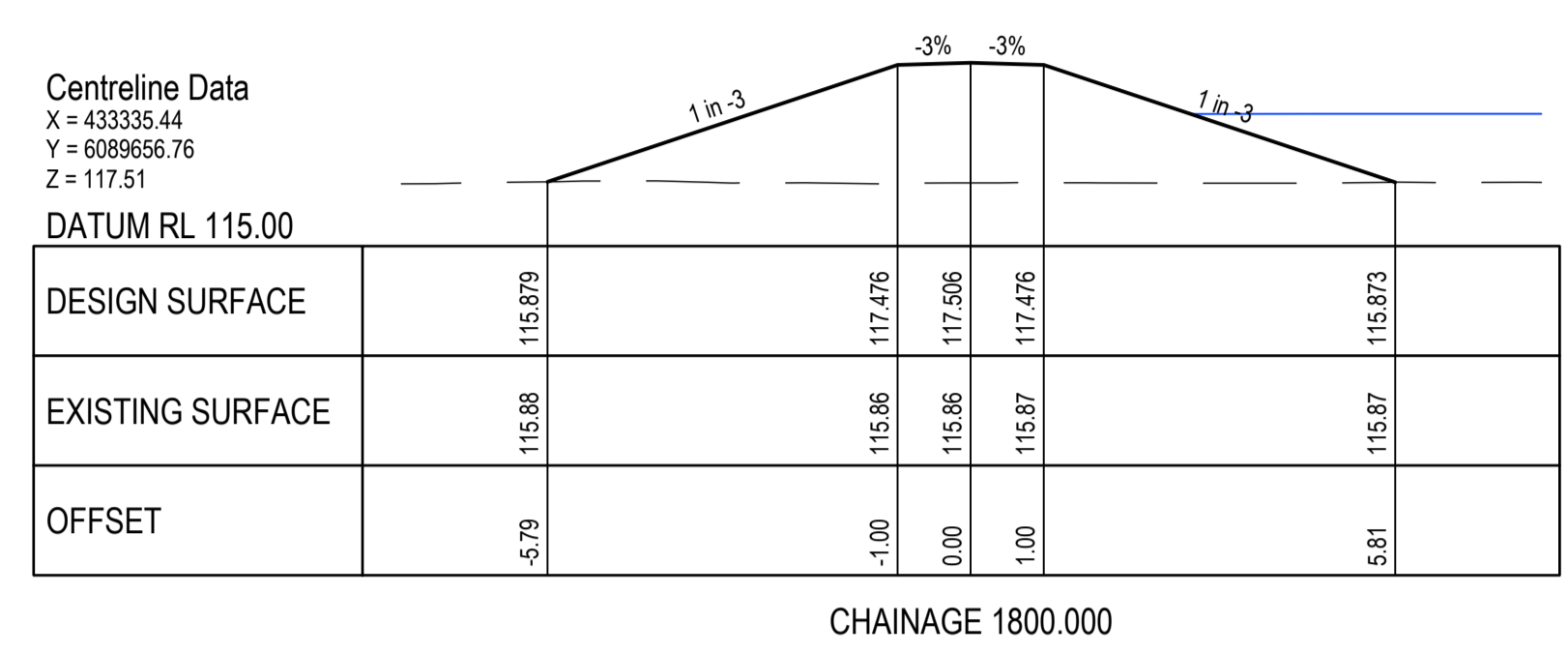
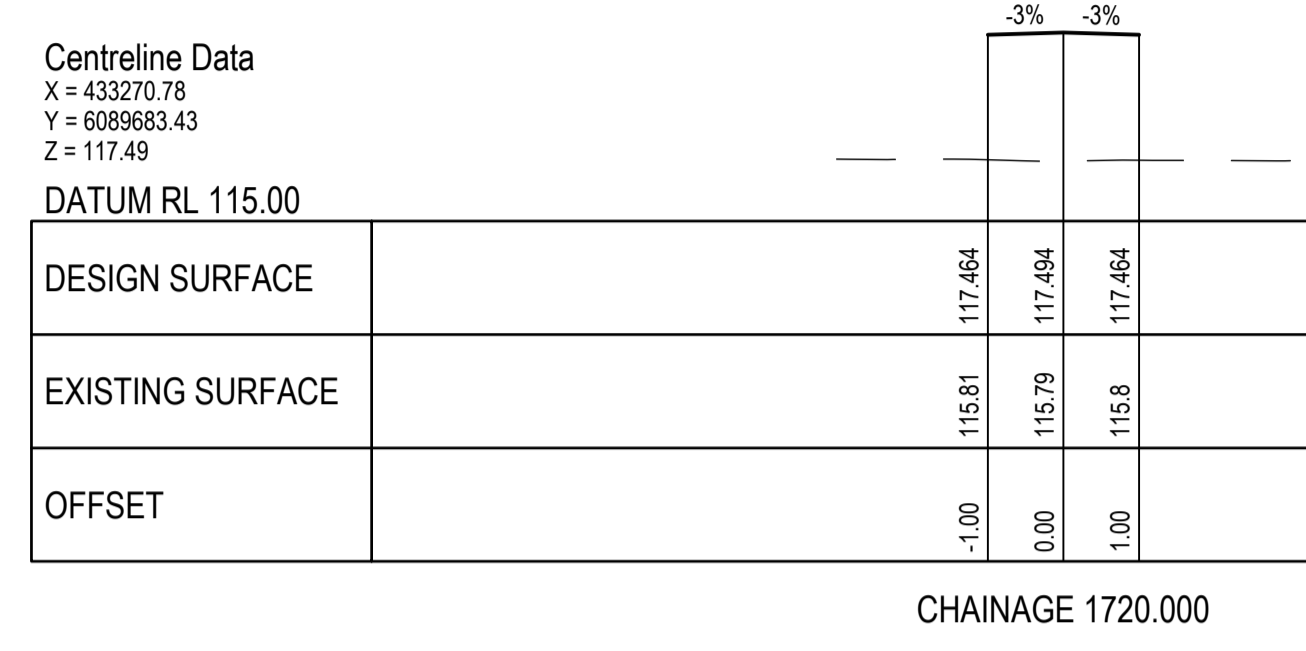
FEDERATION COUNCIL
 URANA LEVEE UPGRADE WORKS
 BROUGONG STREET
 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE CROSS SECTIONS
 SHEET 5 OF 8

DRAWN A.WARD	DATE 26/09/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 26/09/2023	PROJECTION GD2020	SHEET SIZE A1
DSE23029-1204			2

LIDAR SURFACE
 EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

LEGEND - CROSS AND LONG SECTIONS

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	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE

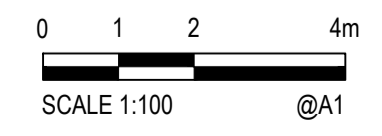


RS01 CROSS SECTIONS
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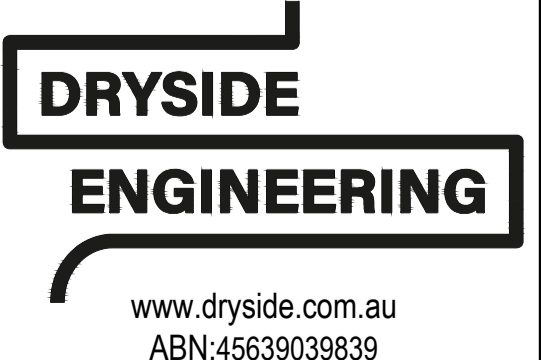
PRELIMINARY DESIGN
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

XREFs: P-RS01-XS-01; P-RS01-XS-02; P-RS01-XS-03; P-RS01-XS-04; P-RS01-XS-05; P-RS01-XS-06; P-RS01-XS-07; P-RS01-XS-08
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REV	DATE	DESCRIPTION	DES	VER	APP
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



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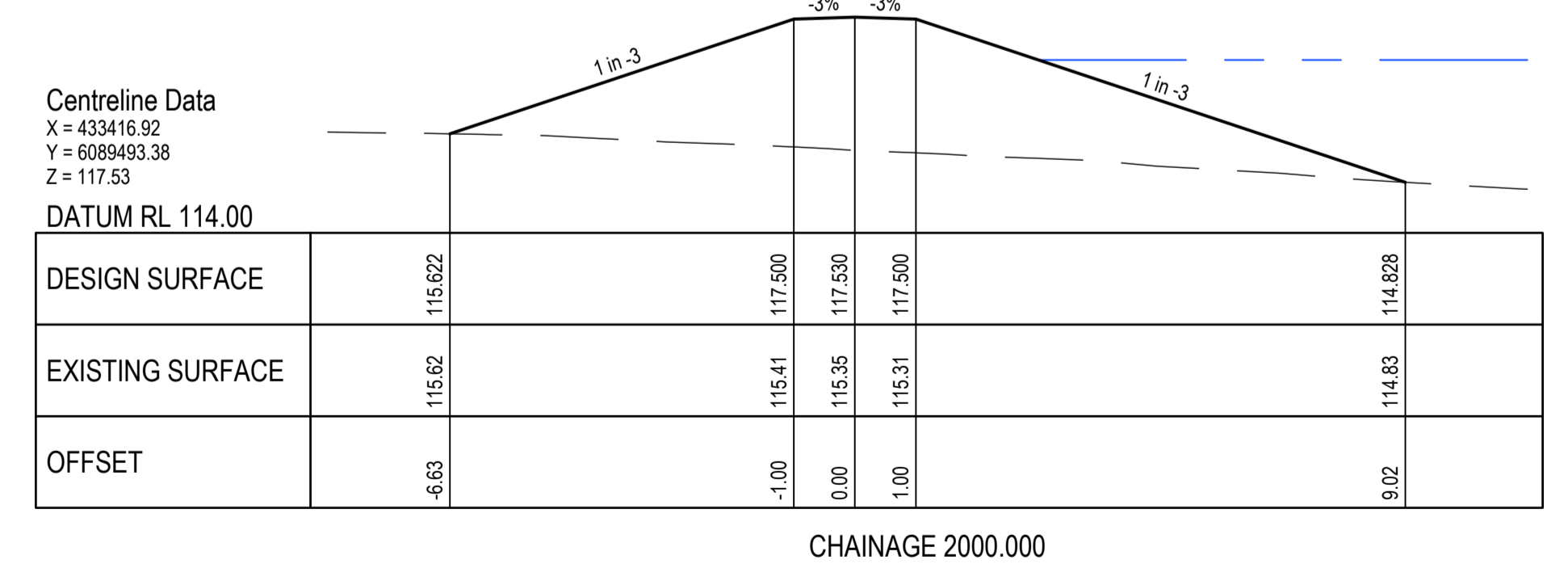
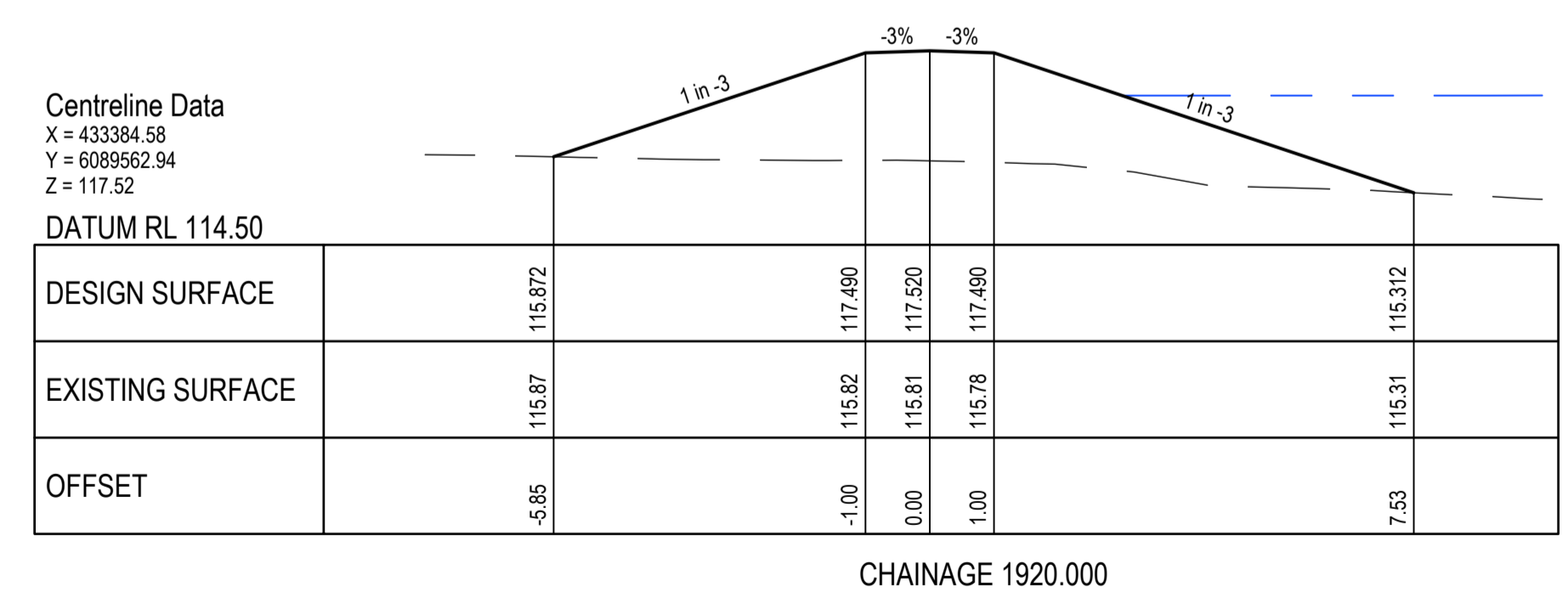
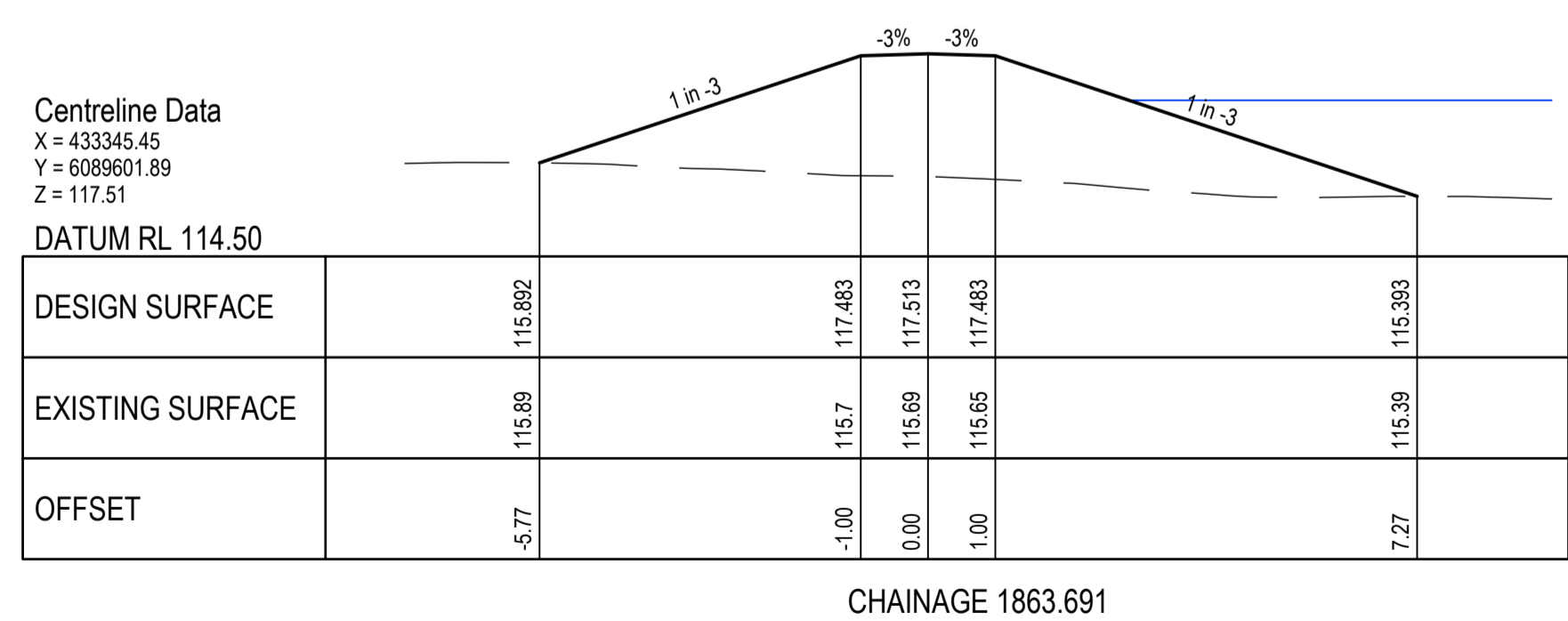
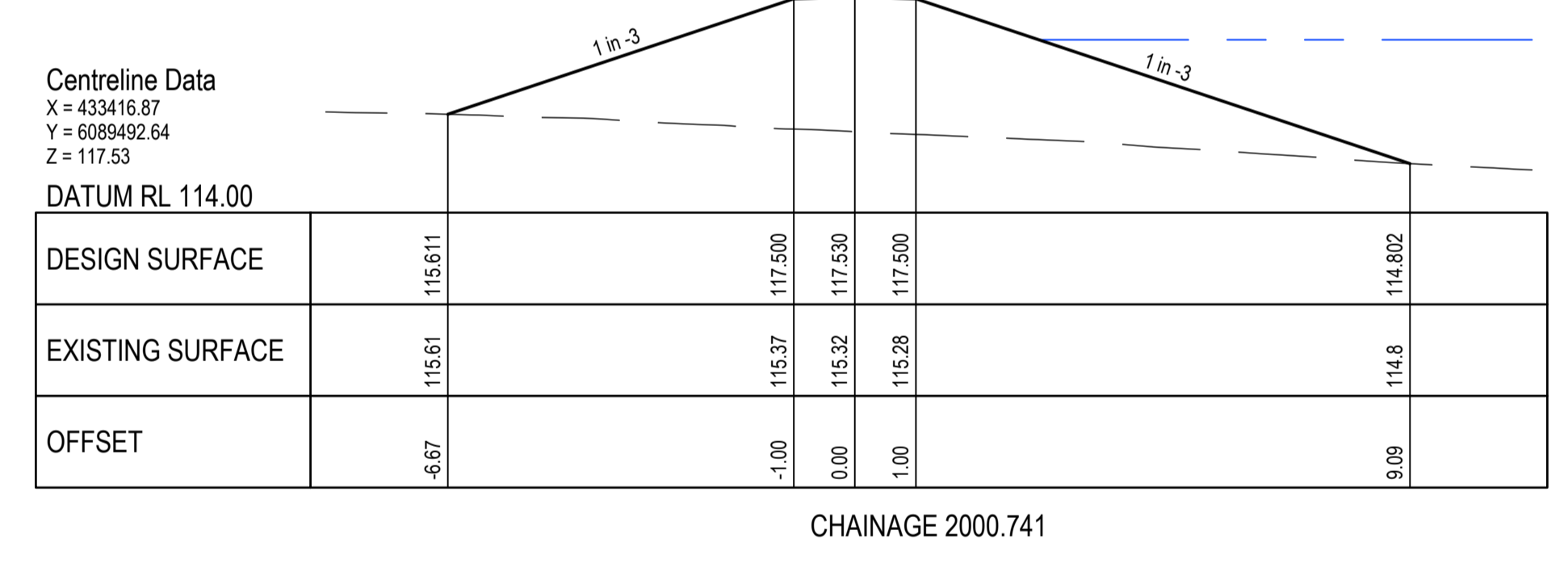
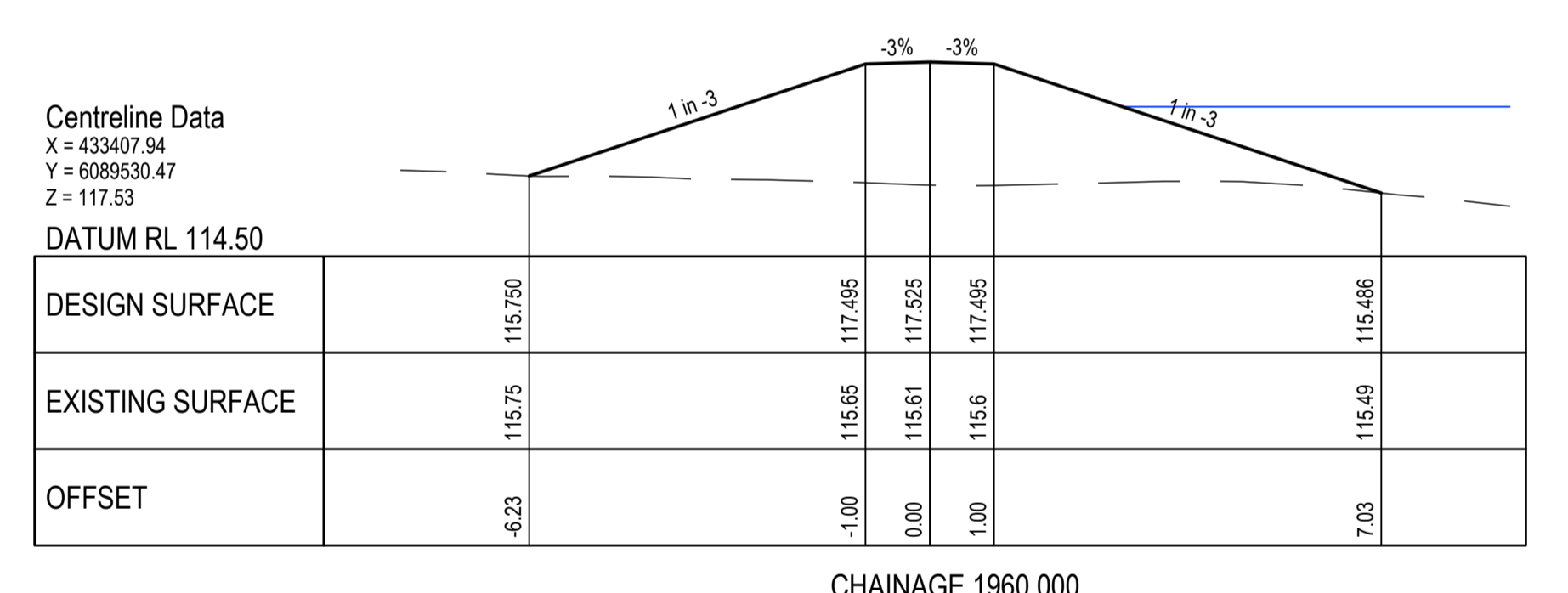
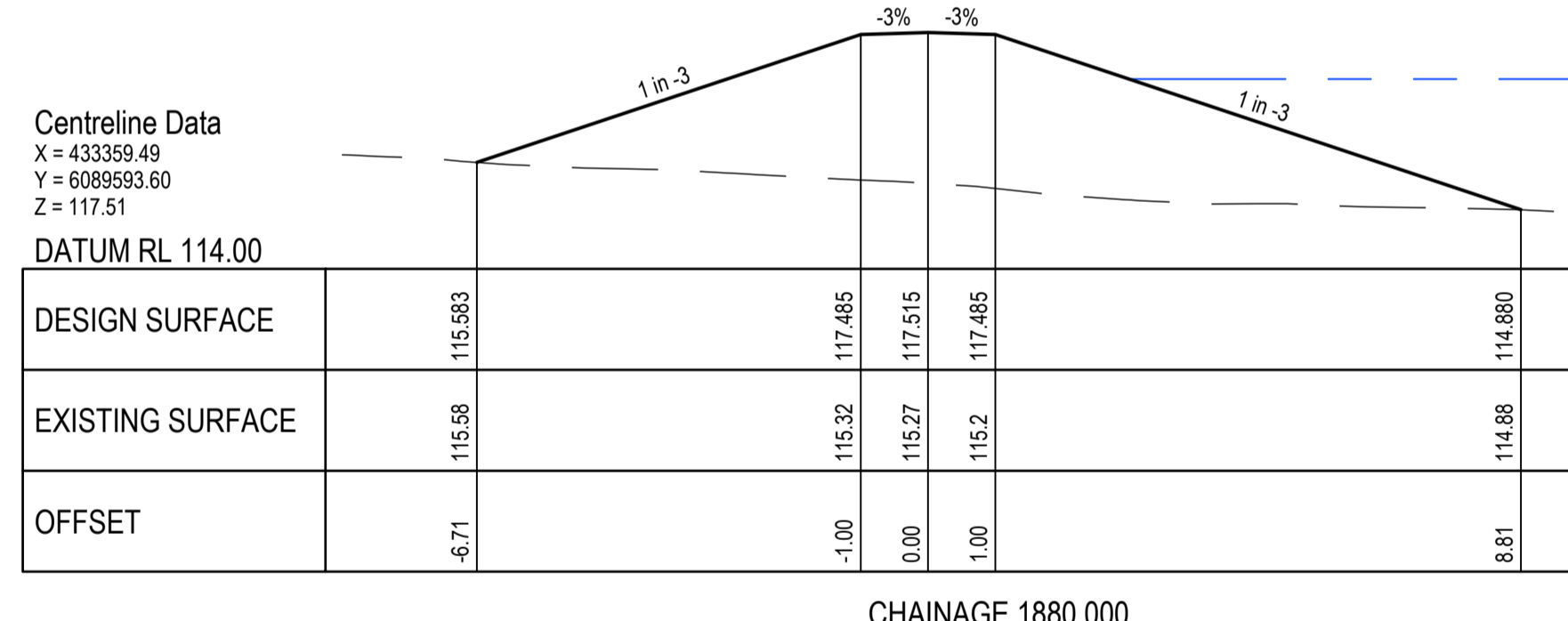
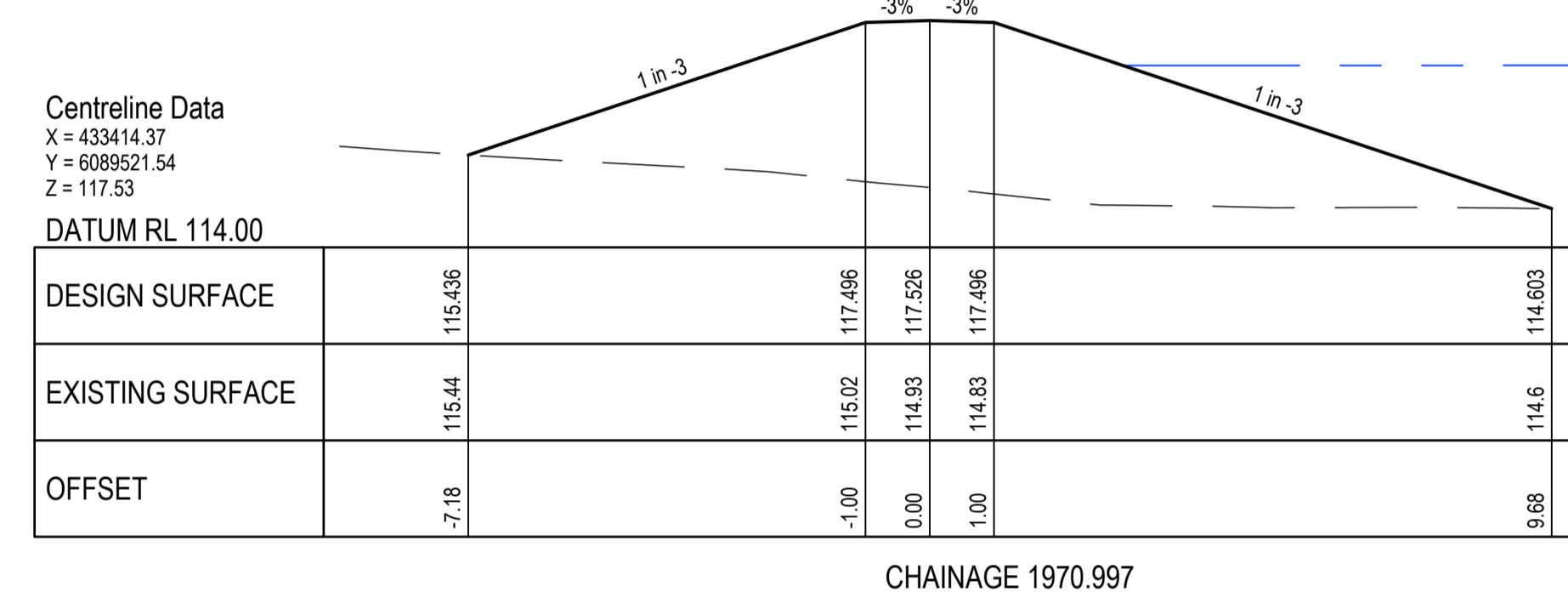
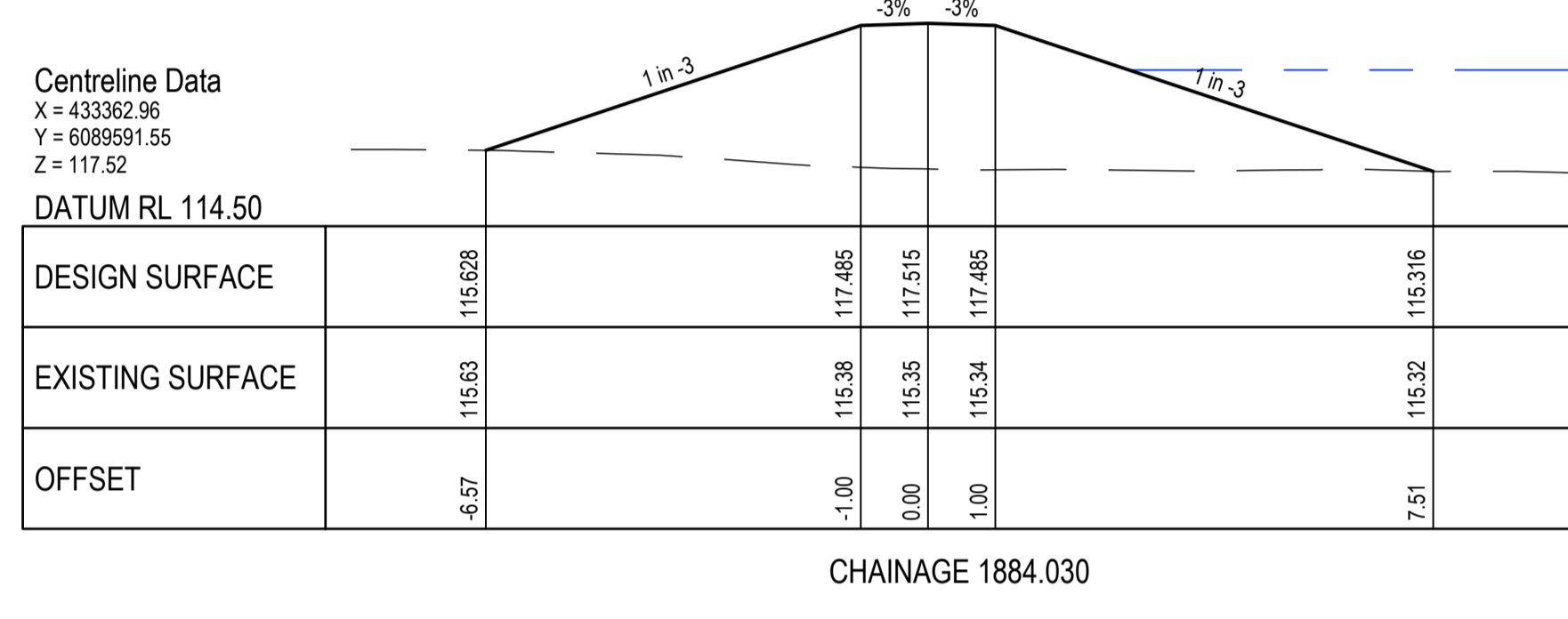
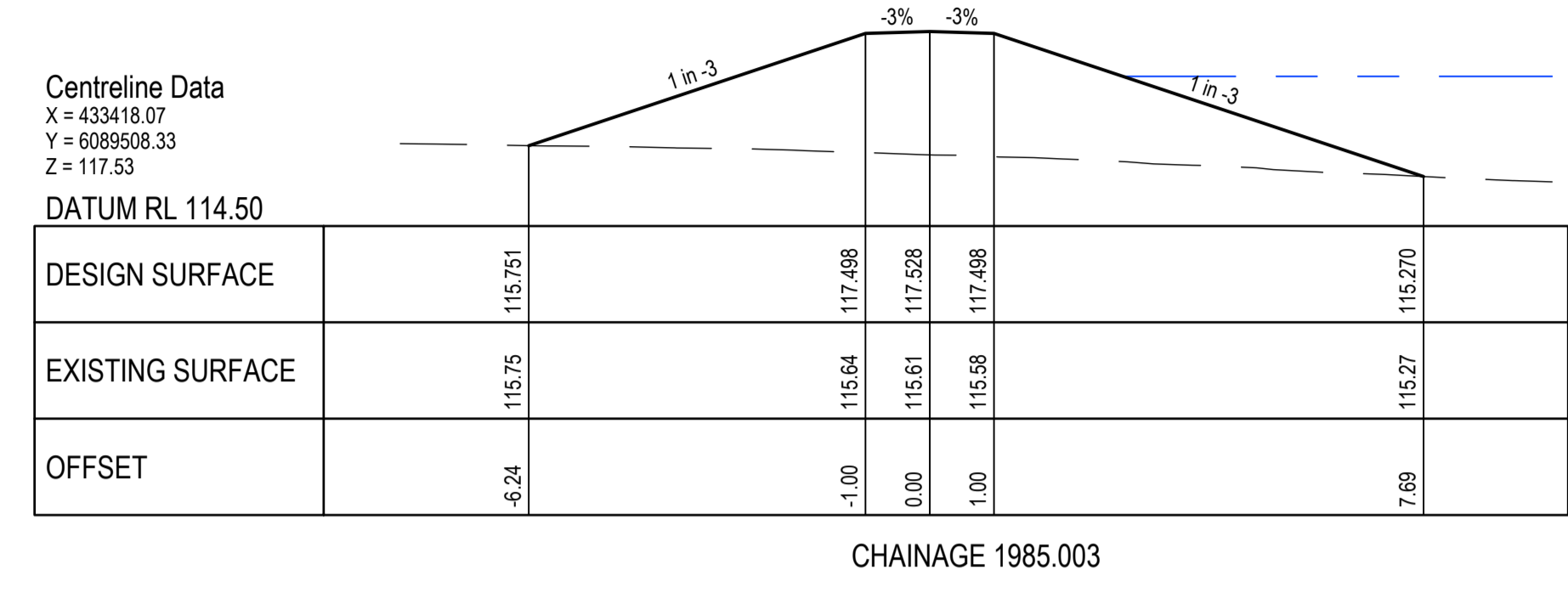
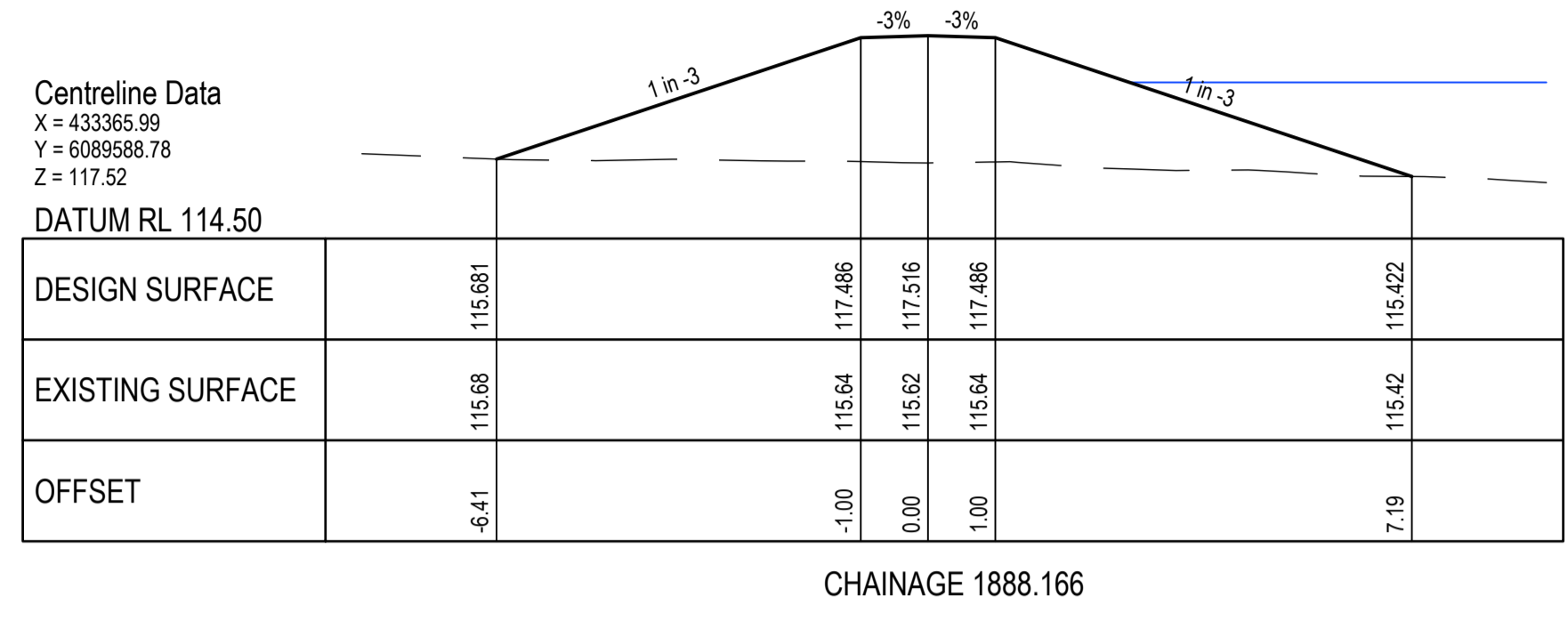
FEDERATION COUNCIL
 URANA LEVEE UPGRADE WORKS
 BROUGONG STREET
 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE CROSS SECTIONS
 SHEET 6 OF 8

DRAWN A.WARD	DATE 26/09/2023	SCALE AS SHOWN	DATUM MAHD
DESIGNED A.WARD	DATE 26/09/2023	PROJECTION GD2020	SHEET SIZE A1
DSE23029-1205			2

LIDAR SURFACE
 EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

LEGEND - CROSS AND LONG SECTIONS

	FINISHED SURFACE PROFILE
	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE

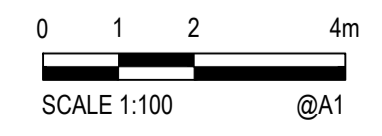


RS01 CROSS SECTIONS
 SCALE H 1:100m V 1:100m

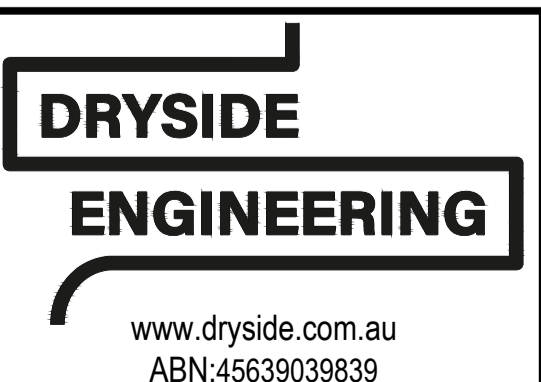
PRELIMINARY DESIGN
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

XREFs: P-RS01-XS-01; P-RS01-XS-02; P-RS01-XS-03; P-RS01-XS-04; P-RS01-XS-05; P-RS01-XS-06; P-RS01-XS-07; P-RS01-XS-08
 CAD File: C:\Users\aron\OneDrive\Engineering\Dropbox\Dryside\1_L\Jobs\2023\DSE23029_1206\Drawings\DSE23029-1206.dwg

REV	DATE	DESCRIPTION	DES	VER	APP
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1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-



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 08/11/2023
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FEDERATION COUNCIL
 URANA LEVEE UPGRADE WORKS
 BROUGONG STREET
 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE CROSS SECTIONS
 SHEET 7 OF 8

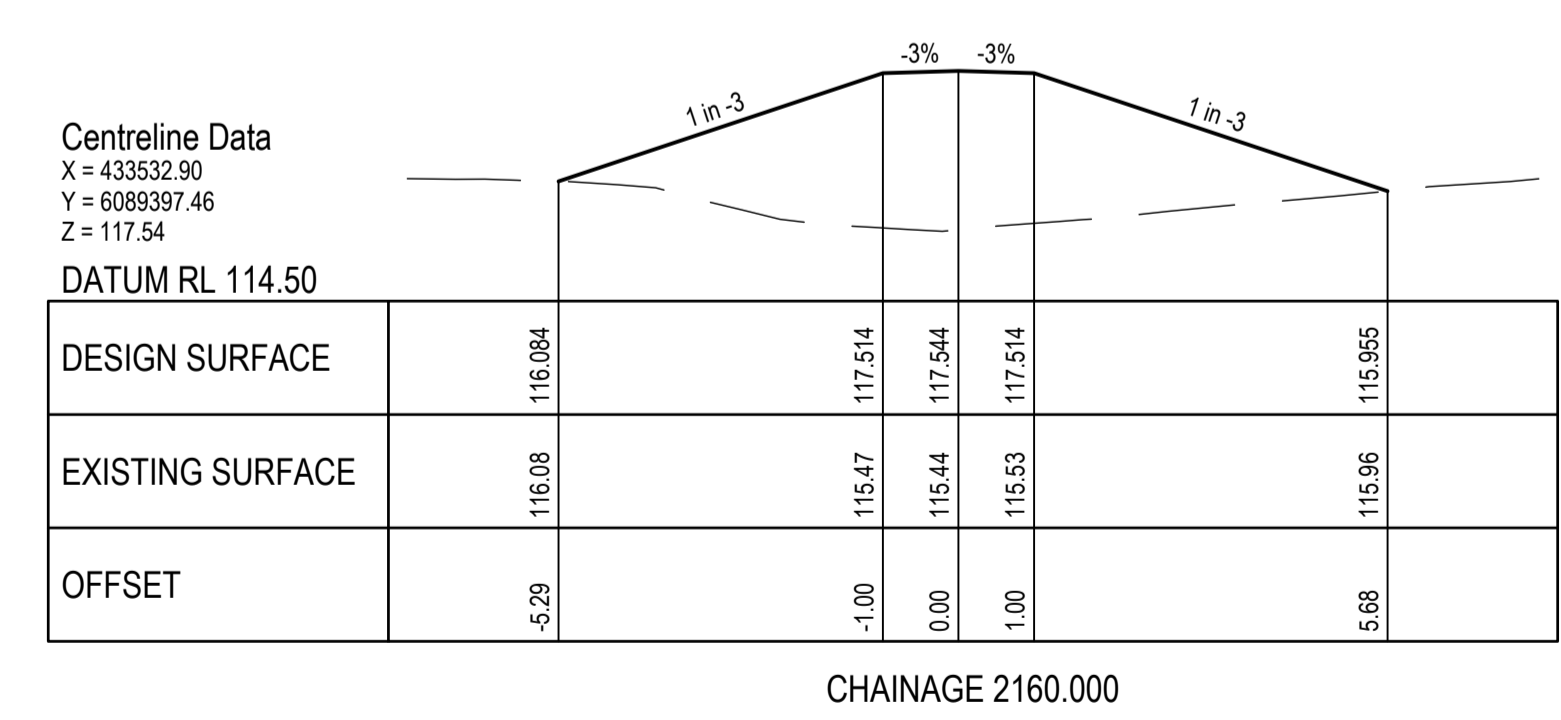
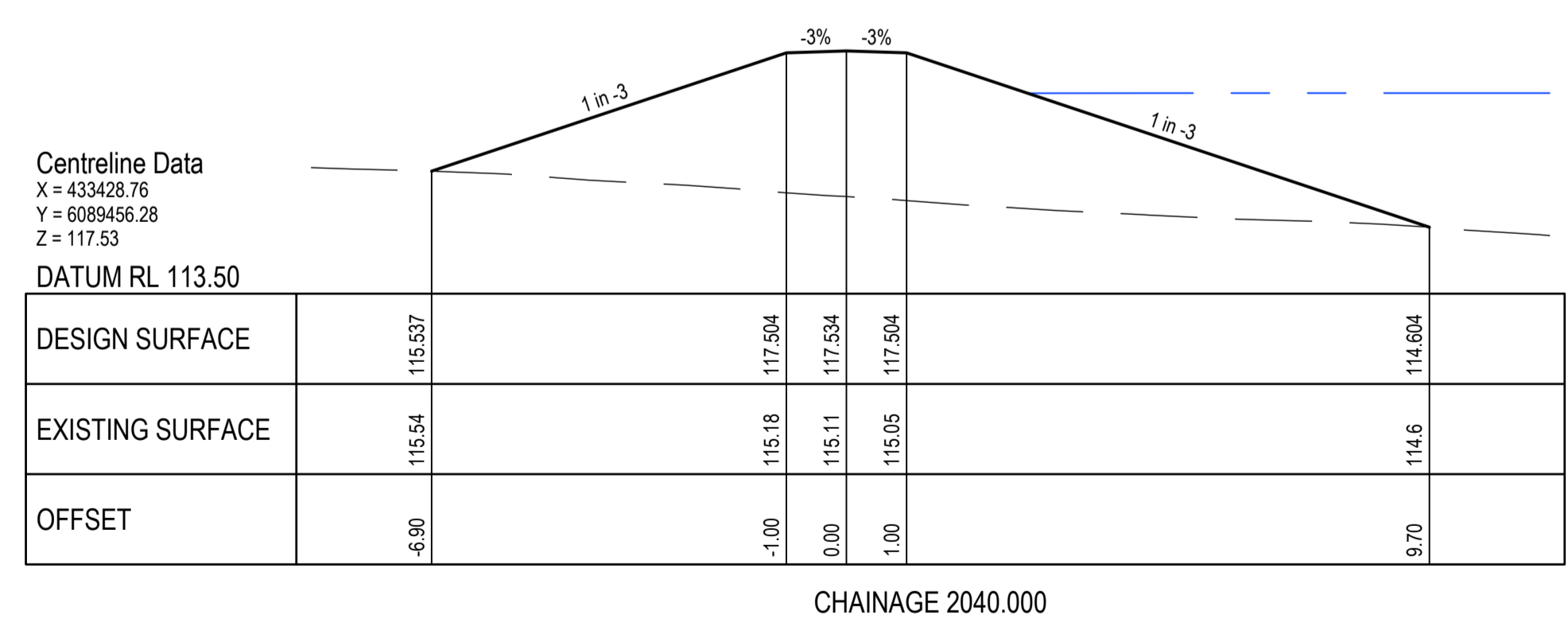
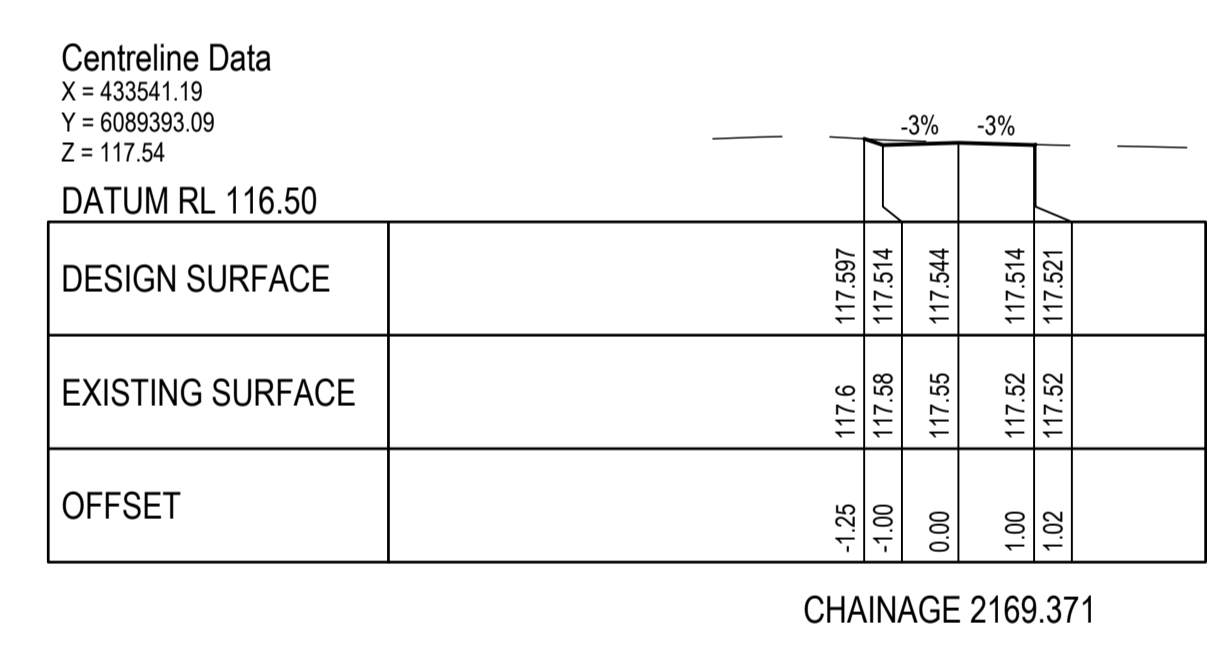
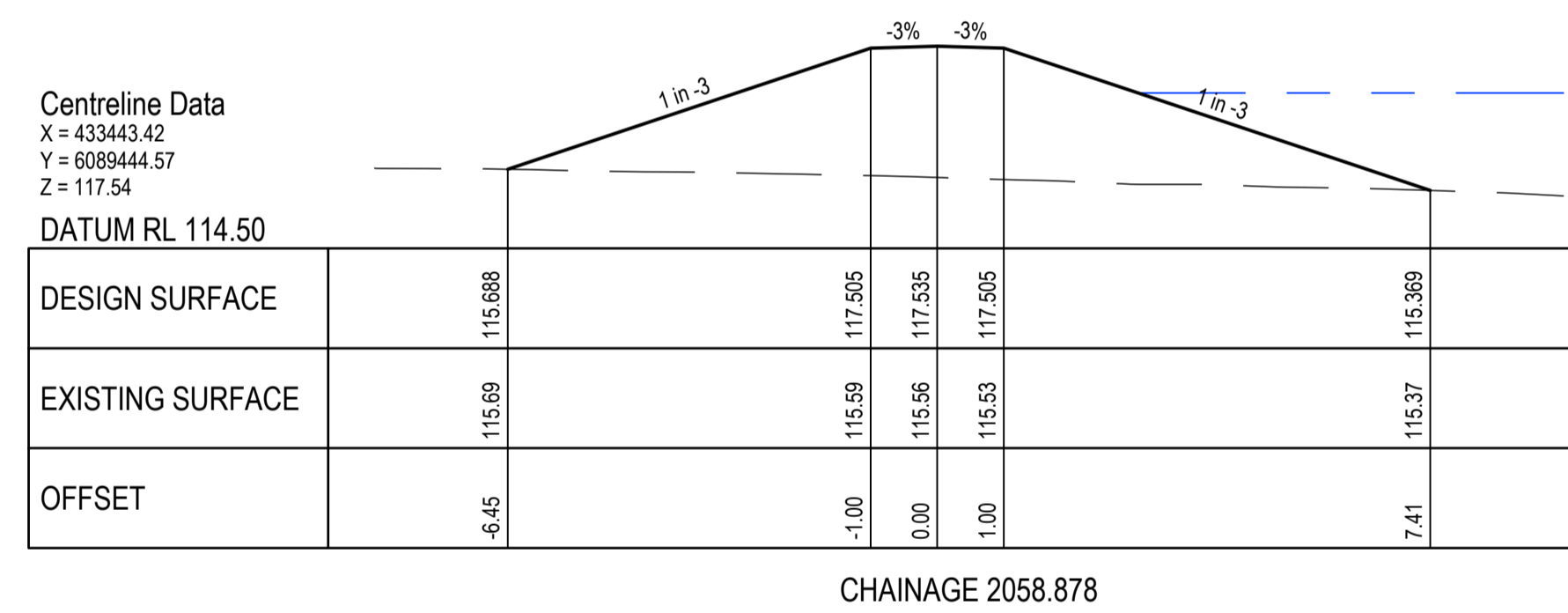
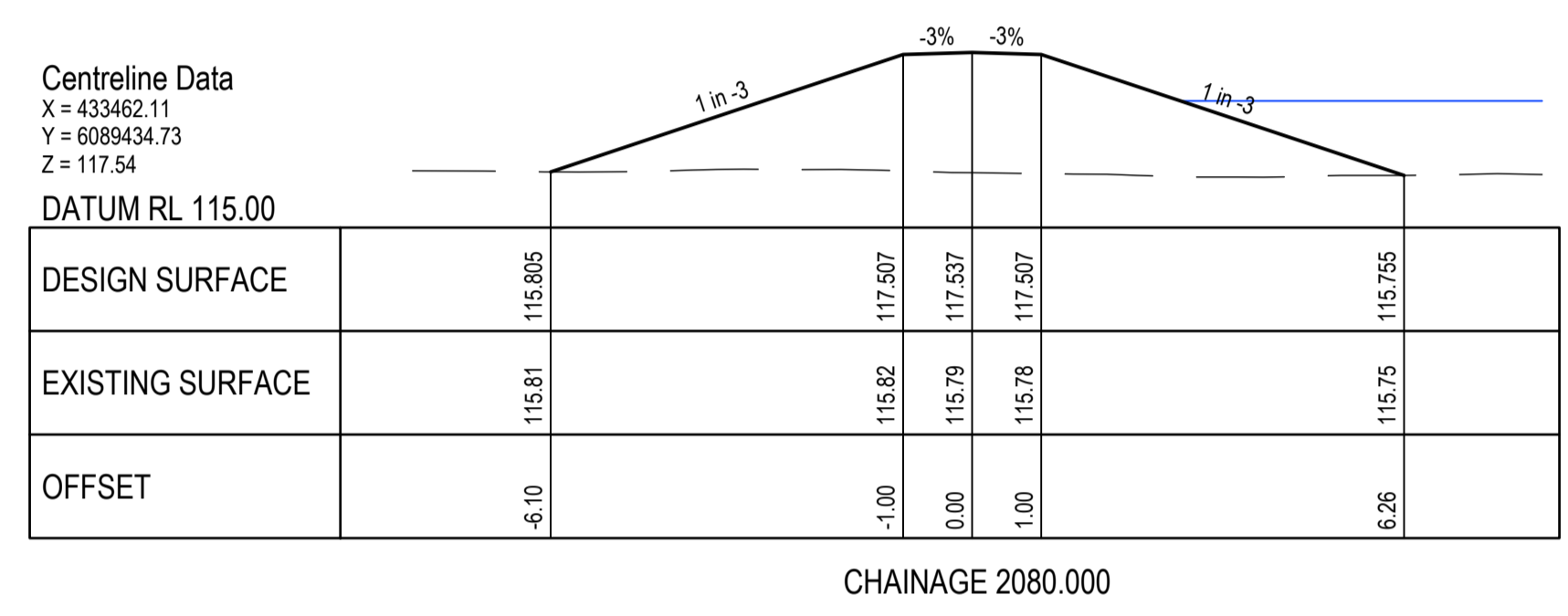
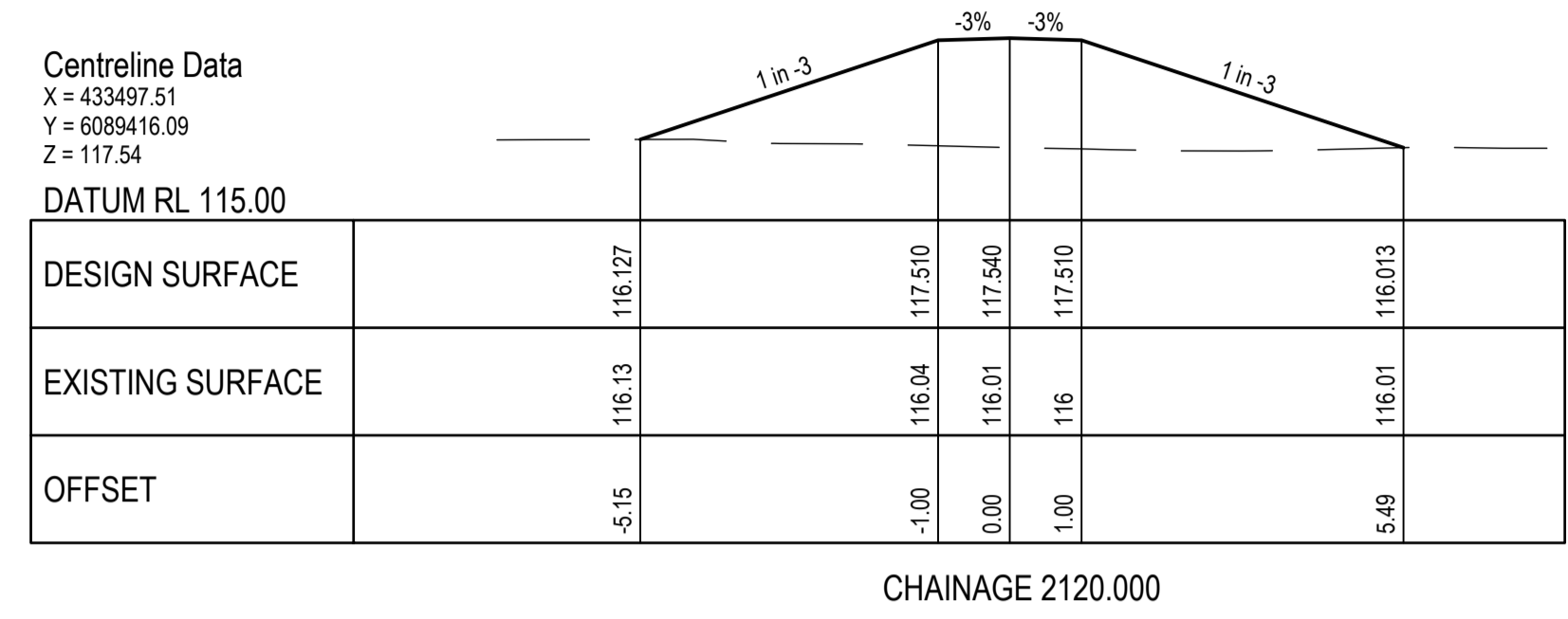
DRAWN	DATE	SCALE	DATUM
A.WARD	26/09/2023	AS SHOWN	MAHD
DESIGNED	DATE	PROJECTION	SHEET SIZE
A.WARD	26/09/2023	GD2020	A1
DSE23029-1206			2

DATE PLOTTED: 8 November 2023 4:51 PM BY: AARON WARD

LIDAR SURFACE
 EXISTING LEVELS SHOWN IN THESE PRELIMINARY PLANS ARE BASED OFF LIDAR SURFACE SPOT LEVELS. DESIGN MAY CHANGE FOLLOWING A FEATURE LEVEL SURVEY AT DETAILED DESIGN.

LEGEND - CROSS AND LONG SECTIONS

	FINISHED SURFACE PROFILE
	EXISTING SURFACE PROFILE
	1% AEP FLOOD PROFILE



RS01 CROSS SECTIONS
 SCALE H 1:100m V 1:100m

PRELIMINARY DESIGN
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

XREFs: P-RS01-XS-01; P-RS01-XS-02; P-RS01-XS-03; P-RS01-XS-04; P-RS01-XS-05; P-RS01-XS-06; P-RS01-XS-07; P-RS01-XS-08
 CAD File: C:\Users\aron\OneDrive\Engineering\Dropbox\Dryside\1_Urana_Levee\ENGINEERING\2 Drawings\DSE23029-1200.dwg

REV	DATE	DESCRIPTION	DES	VER	APP
2	08/11/2023	PRELIMINARY ISSUE - ALIGNMENT CHANGE	AW	EH	-
1	17/10/2023	PRELIMINARY ISSUE	AW	EH	-

FEDERATION COUNCIL

SCALE 1:100 @A1

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 BROUGONG STREET
 URANA, NSW 2645
 PRELIMINARY DESIGN
 LEVEE CROSS SECTIONS
 SHEET 8 OF 8

DRAWN	A.WARD	DATE	26/09/2023	SCALE	AS SHOWN	DATUM	MAHD
DESIGNED	A.WARD	DATE	26/09/2023	PROJECTION	GD2020	SHEET SIZE	A1
DSE23029-1207							2