APPENDIX

B2

DUNGOWAN DAM AND PIPELINE EIS

Project plans and design

NSW GOVERNMENT | EMM creating opportunities

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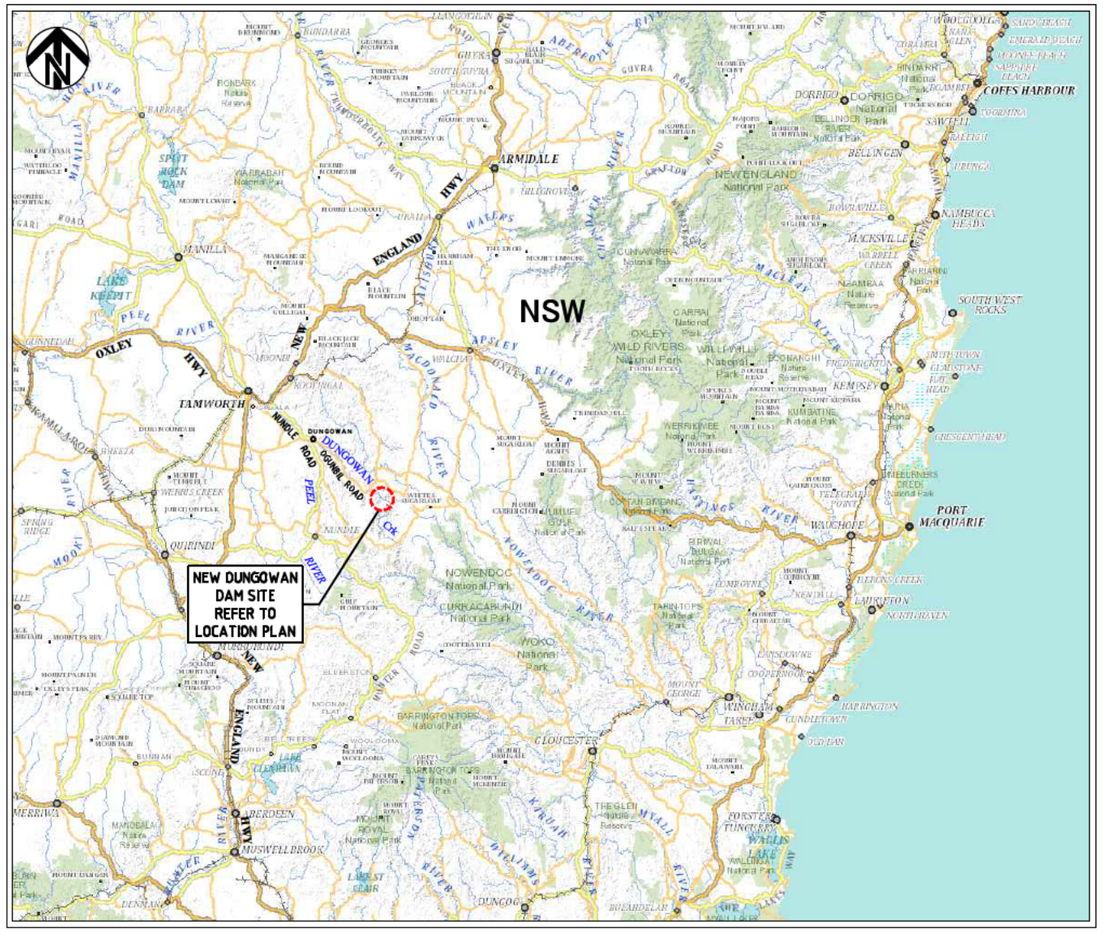
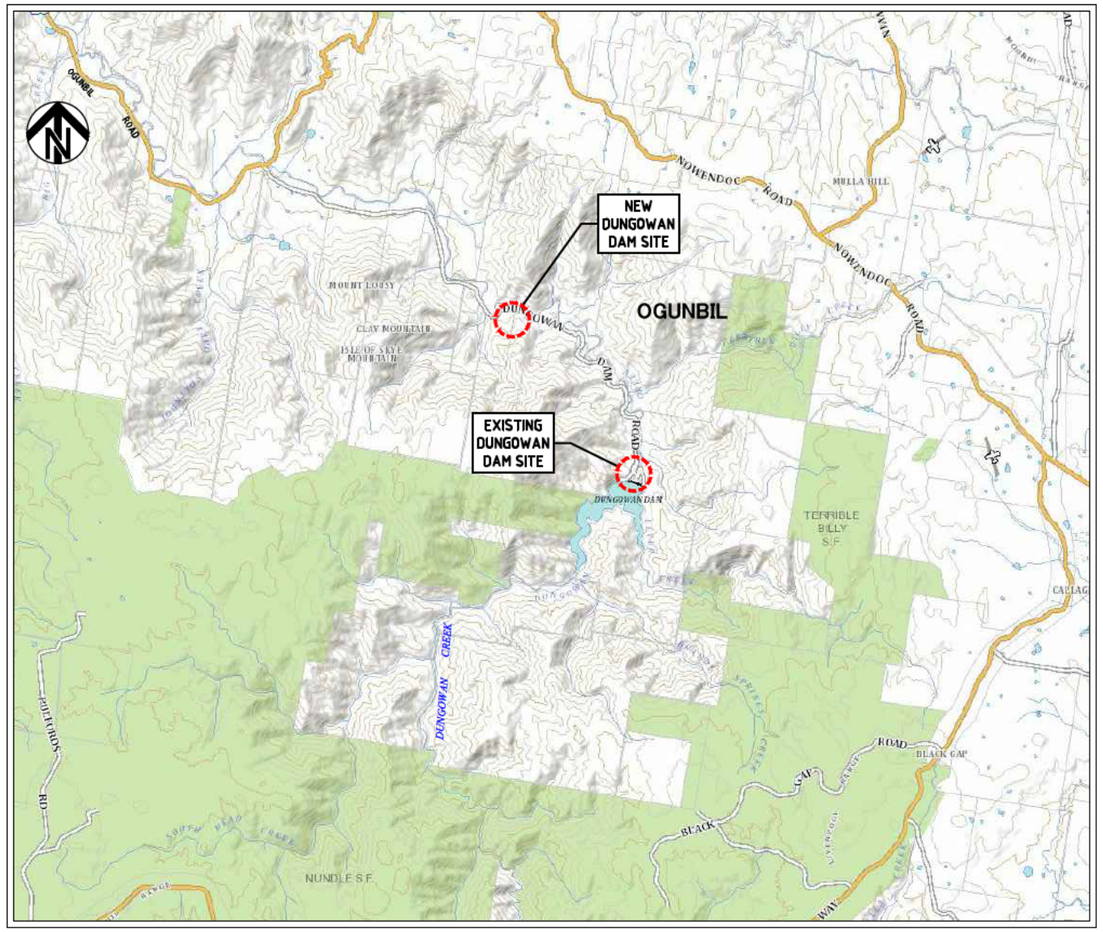
DUNGOWAN DAM

FINAL CONCEPT DESIGN

WaterNSW



LOCALITY PLAN
N.T.S.



LOCATION PLAN
N.T.S.

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Cover Sheet
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:19:54 PM

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DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	17.08.2020 C. WILTSHIRE
DRAWN	02.09.2020 J. PARISI
CHECKED	11.09.2020 C. WILTSHIRE
SCALES	AS NOTED
SHEET	A1
FILE	
REPORT	
JOB	

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DUNGOWAN DAM - FINAL CONCEPT DESIGN
GENERAL DRAWINGS
COVER SHEET, LOCALITY PLAN AND LOCATION PLAN

REV.	PLAN No.
	DUN-GEN-0101
B	
A	

DRAWING SCHEDULE

DRAWING NUMBER	DRAWING TITLE
GENERAL	
DUN-GEN-0101	COVER SHEET, LOCALITY PLAN AND LOCATION PLAN
DUN-GEN-0102	DRAWING SCHEDULE
DUN-GEN-0107	GENERAL ARRANGEMENT
DIVERSION WORKS	
DUN-DIV-0201	DIVERSION TUNNEL - DETAILED PLAN AND LONGITUDINAL SECTION
DUN-DIV-0206	DIVERSION TUNNEL - TUNNEL LINING - CONCRETE OUTLINE
DUN-DIV-0221	UPSTREAM COFFERDAM - DETAILED PLAN
DUN-DIV-0231	DOWNSTREAM COFFERDAM - DETAILED PLAN
EMBANKMENT DAM	
DUN-DAM-0301	DETAILED PLAN
DUN-DAM-0303	EMBANKMENT SECTIONS - SHEET 1
DUN-DAM-0304	EMBANKMENT SECTIONS - SHEET 2
DUN-DAM-0321	FOUNDATION - GROUTING PLAN AND ELEVATION
DUN-DAM-0361	INSTRUMENTATION - DETAILED PLAN
DUN-DAM-0362	INSTRUMENTATION - SECTIONS AND DETAILS
OUTLET WORKS	
DUN-OUT-0401	DETAILED PLAN AND LONGITUDINAL SECTION
DUN-OUT-0421	INTAKE TOWER - DETAILED PLAN
DUN-OUT-0422	INTAKE TOWER - SECTIONS AND DETAIL
DUN-OUT-0441	INTAKE TOWER ACCESS BRIDGE - SHEET 1
DUN-OUT-0442	INTAKE TOWER ACCESS BRIDGE - SHEET 2
DUN-OUT-0471	VALVE HOUSE - DETAILED PLAN
SPILLWAY	
DUN-SPW-0501	DETAILED PLAN AND LONGITUDINAL SECTION
DUN-SPW-0502	CROSS SECTIONS - SHEET 1
DUN-SPW-0503	CROSS SECTIONS - SHEET 2
DUN-SPW-0531	APPROACH CHANNEL - CONCRETE OUTLINE
DUN-SPW-0541	OGEE CREST - CONCRETE OUTLINE
DUN-SPW-0551	UPPER CHUTE - CONCRETE OUTLINE
DUN-SPW-0552	LOWER CHUTE - CONCRETE OUTLINE
DUN-SPW-0561	STILLING BASIN - CONCRETE OUTLINE
ANCILLARY WORKS	
DUN-ANC-0601	EXISTING DAM - DAM DECOMMISSIONING - DETAILED PLAN
DUN-ANC-0606	EXISTING DAM - DAM DECOMMISSIONING - EXCAVATION SECTIONS - SHEET1
DUN-ANC-0607	EXISTING DAM - DAM DECOMMISSIONING - EXCAVATION SECTIONS - SHEET 2
ROADWORKS	
DUN-RDW-0705	ROADWORKS - GENERAL ARRANGEMENT
DUN-RDW-0710	ROADWORKS - DAM ACCESS ROAD - SHEET 1
DUN-RDW-0711	ROADWORKS - DAM ACCESS ROAD - SHEET 2

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Drawing Schedule
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 8:02:18 PM

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CHECKED 11.09.2020 C. WILTSHIRE

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SHEET A1
FILE
REPORT
JOB

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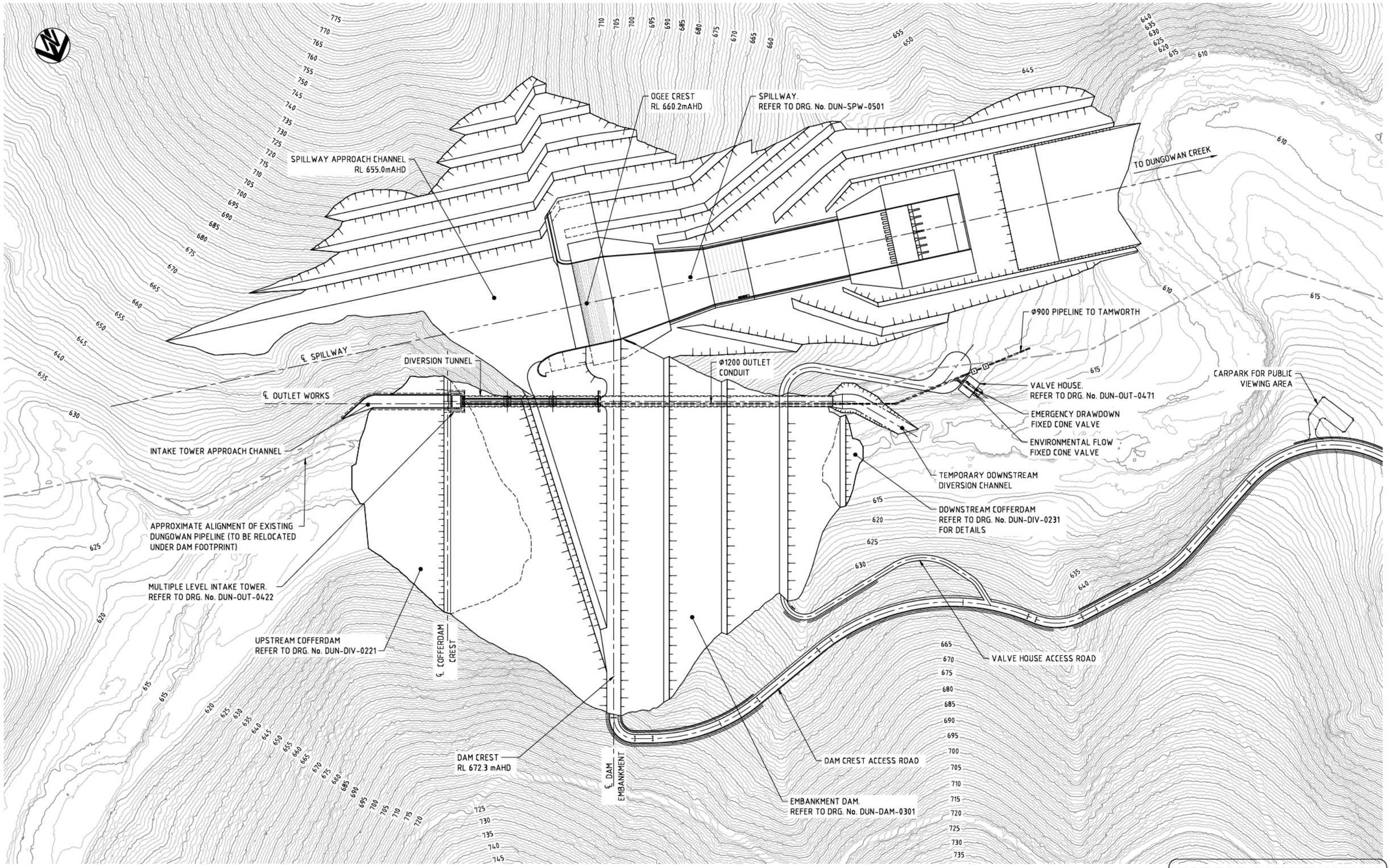
DUNGOWAN DAM - FINAL CONCEPT DESIGN
GENERAL DRAWINGS
DRAWING SCHEDULE

REV. B, A
PLAN No. DUN-GEN-0102



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FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	General Arrangement
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:35:32 PM

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	C. WILTSHIRE
DRAWN	02.09.2020
	J. PARISI
CHECKED	11.09.2020
	C. WILTSHIRE

SCALES		SHEET
AS NOTED		A1
FILE	REPORT	JOB

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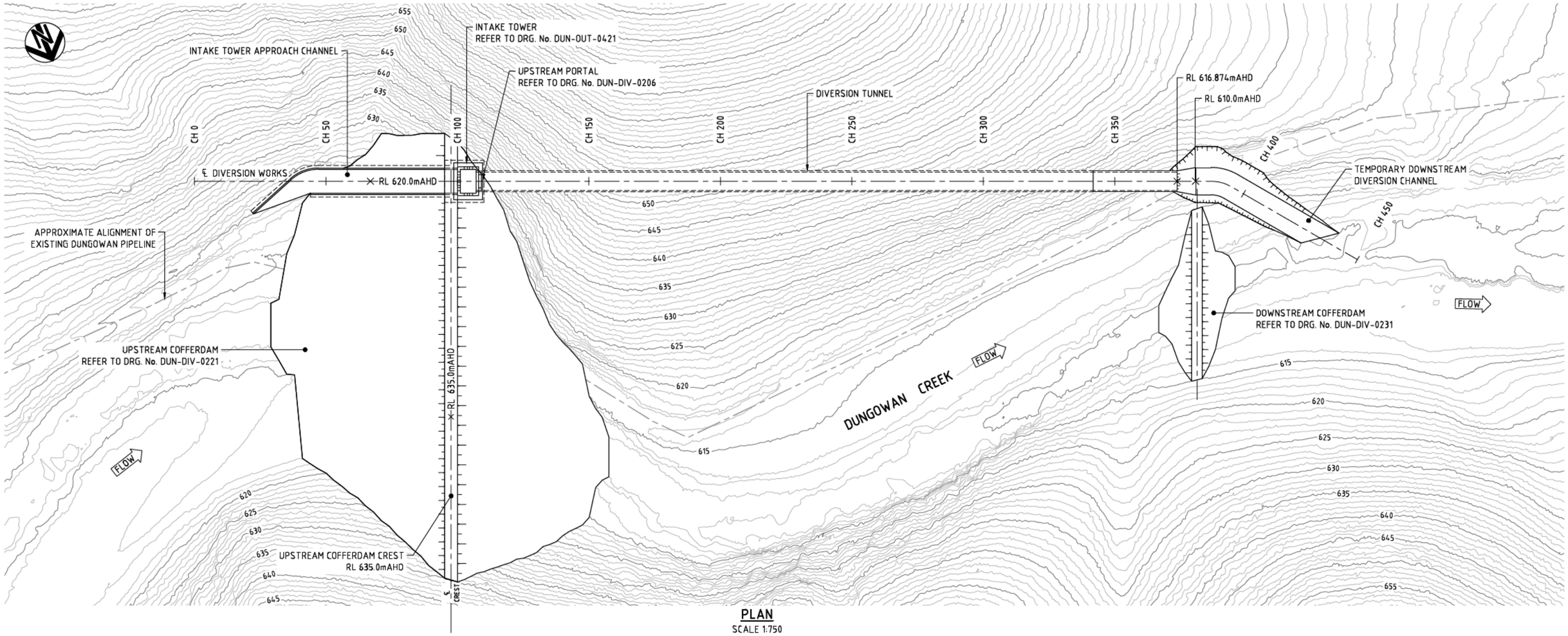
DUNGOWAN DAM - FINAL CONCEPT DESIGN

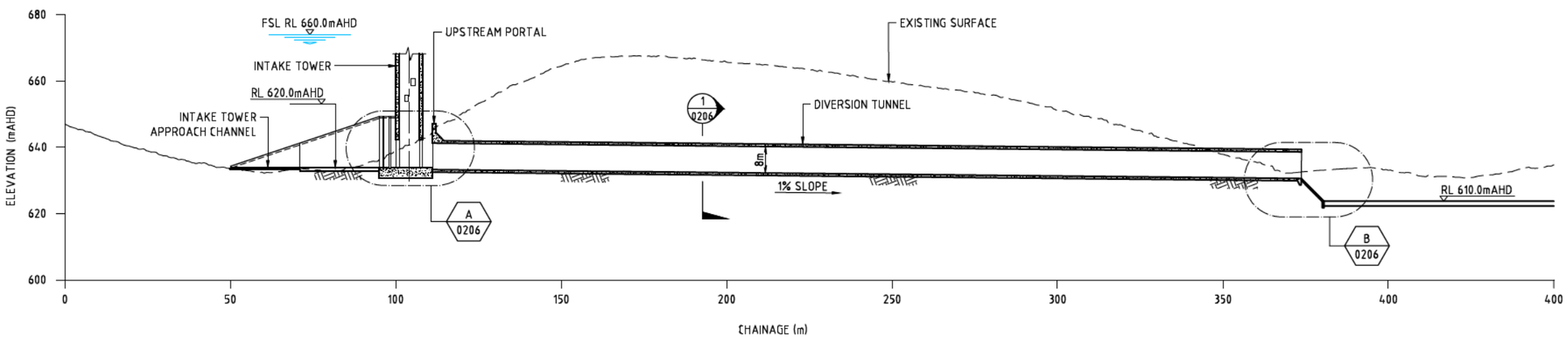
GENERAL DRAWINGS
GENERAL ARRANGEMENT

REV.	PLAN No.
	DUN-GEN-0107
B	
A	



PLAN

SCALE 1:750



DIVERSION WORKS- LONGITUDINAL SECTION

SCALE 1 : 750 7.50 0 7.50 15.00 22.50 30.00 37.50m

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:14:44 PM

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DESIGNED	10.08.2020	SCALES	AS NOTED
C. WILTSHIRE			
DRAWN	07.09.2020	FILE	REPORT
E. HICKS			
CHECKED	11.09.2020		
C. WILTSHIRE			

SHEET A1
JOB

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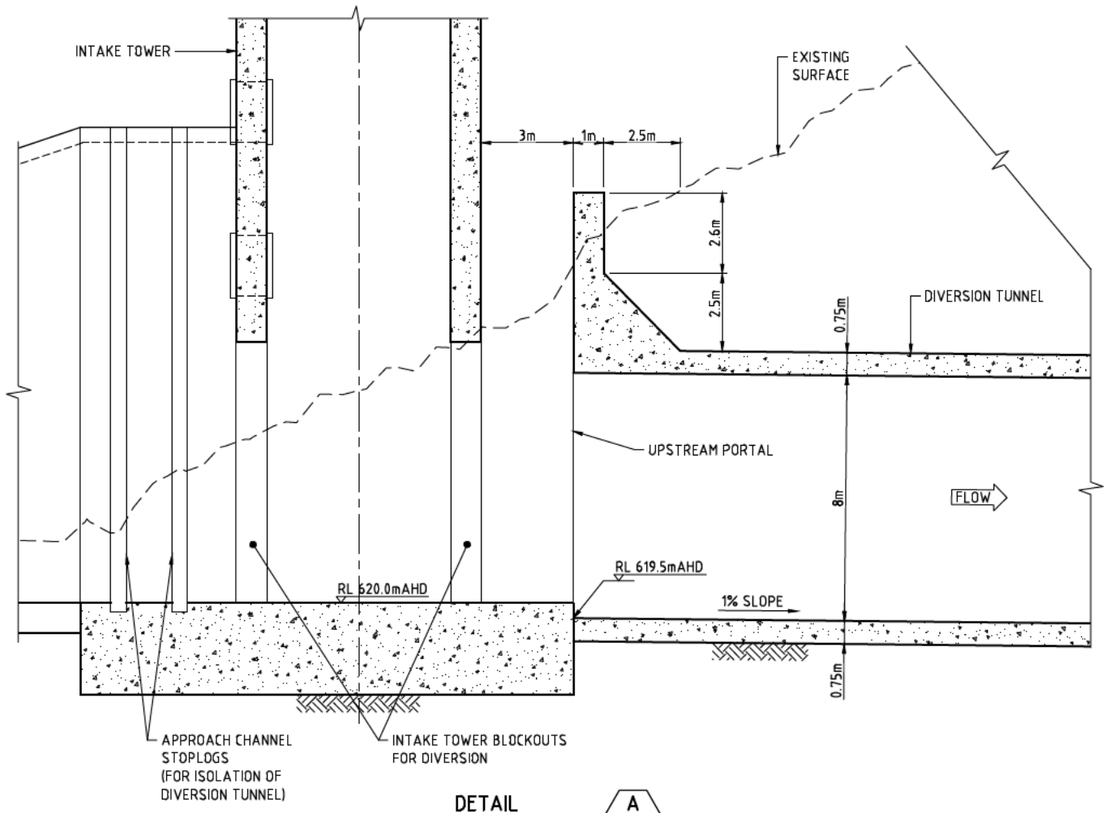
DUNGOWAN DAM - FINAL CONCEPT DESIGN

DIVERSION WORKS
DIVERSION TUNNEL
DETAILED PLAN AND LONGITUDINAL SECTION

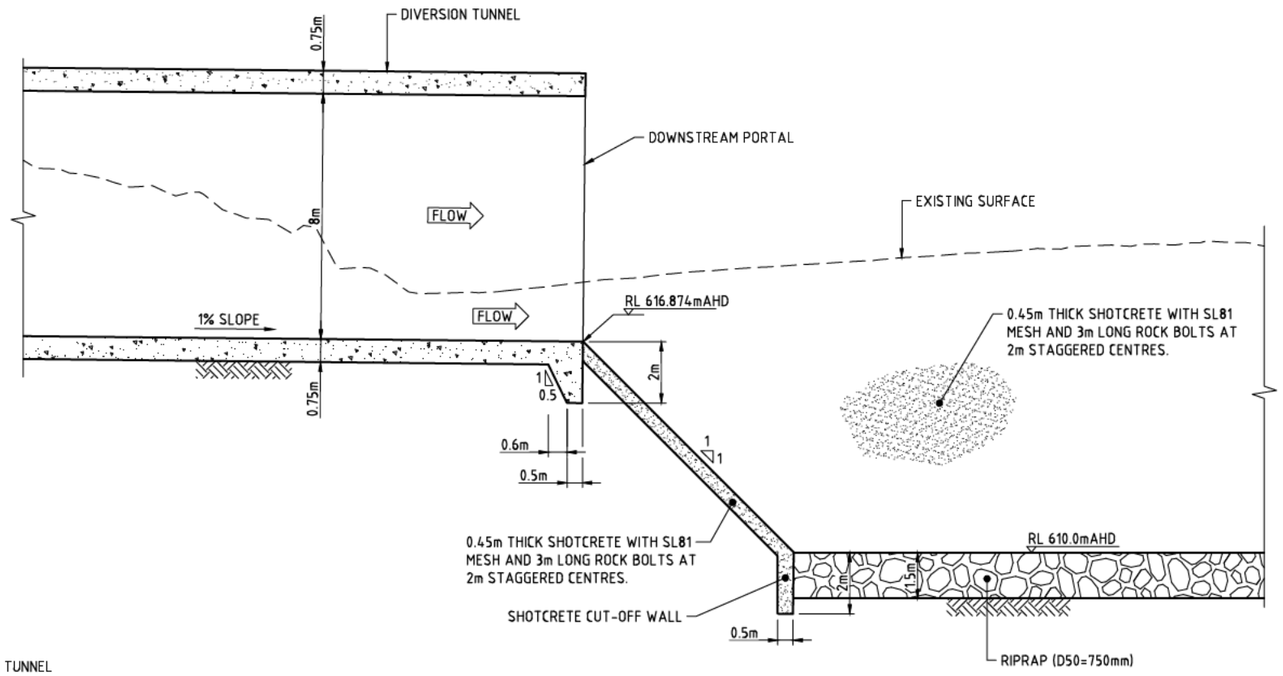
REV. B A

PLAN No. DUN-DIV-0201



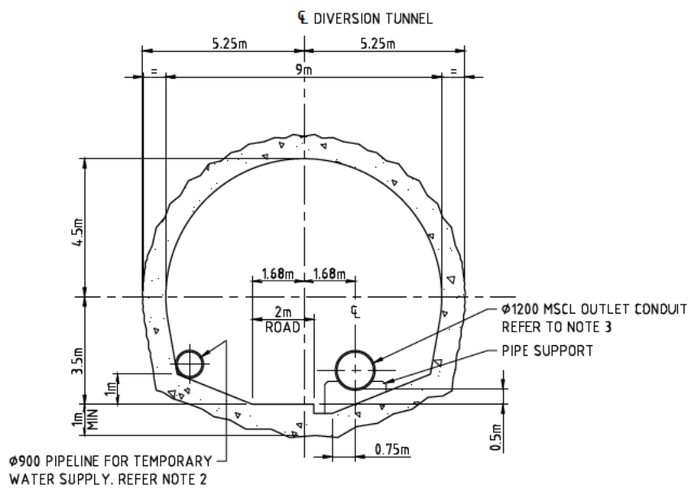
DETAIL A 0201
SCALE 1:100

UPSTREAM PORTAL



DETAIL B 0201
SCALE 1:100

DOWNSTREAM PORTAL



SECTION 1 0201
SCALE 1:100

DIVERSION TUNNEL- TYPICAL SECTION

SCALE 1:100 1 0 1 2 3 4 5

NOTES:

1. REINFORCEMENT NOT SHOWN FOR CLARITY.
2. TEMPORARY 900MM DIAMETER WATER SUPPLY PIPELINE TO BE INSTALLED AND OPERATIONAL UNTIL THE NEW DAM IS BEING COMMISSIONED. THE TEMPORARY PIPE IS TO BE PLUGGED ONCE NO LONGER REQUIRED FOR WATER SUPPLY PURPOSES.
3. PERMANENT 1200mm DIAMETER OUTLET CONDUIT TO BE INSTALLED ALONG WITH TUNNEL PLUG CONSTRUCTION FOLLOWING DIVERSION TUNNEL ISOLATION STOPLOGS.

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:15:07 PM

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DESIGNED	10.08.2020 C. WILTSHIRE	SCALES	AS NOTED
DRAWN	07.09.2020 E. HICKS	SHEET	A1
CHECKED	11.09.2020 C. WILTSHIRE	FILE	REPORT
		JOB	

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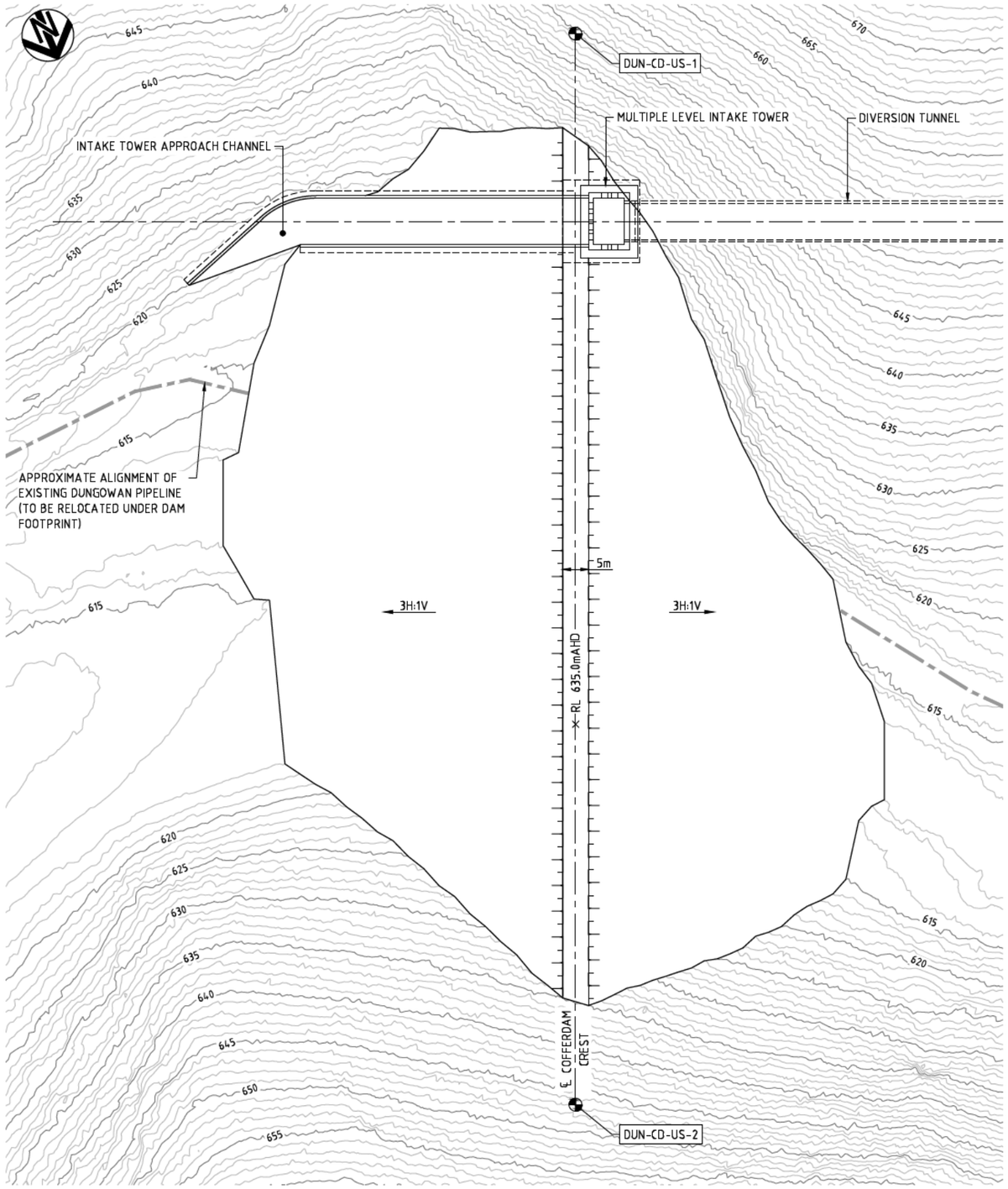
DUNGOWAN DAM - FINAL CONCEPT DESIGN

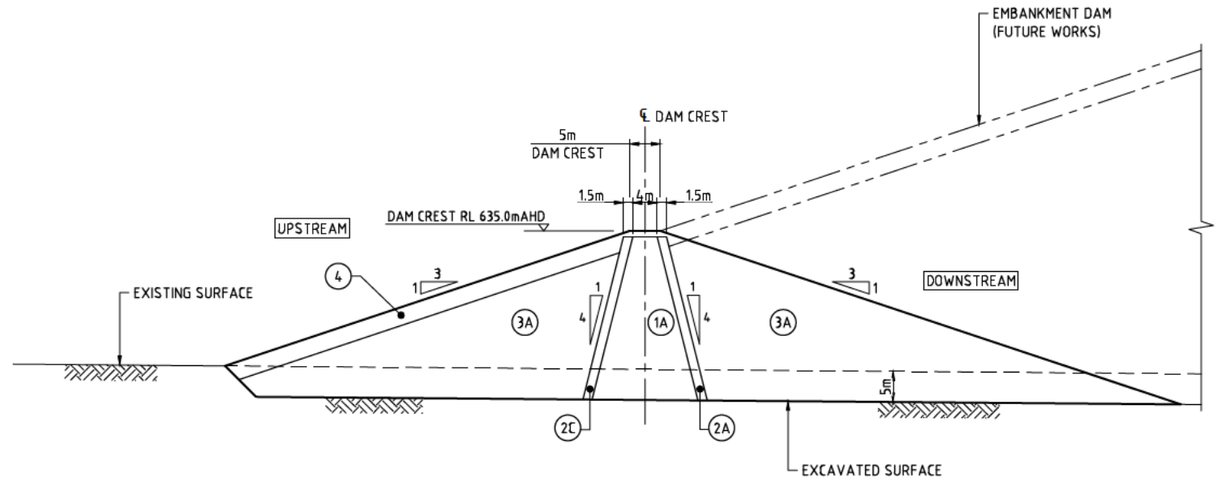
DIVERSION WORKS
DIVERSION TUNNEL
TUNNEL LINING CONCRETE OUTLINE

REV.	PLAN No.
B	DUN-DIV-0206
A	



PLAN VIEW

SCALE 1:500



UPSTREAM COFFERDAM TYPICAL SECTION

SCALE 1:500

MATERIALS LEGEND	
ZONE	DESCRIPTION
1A	CLAY CORE
2A	FINE FILTER
2C	TRANSITION FILTER
3A	SHOULDER FILL
4	RIPRAP

UPSTREAM COFFERDAM AXIS SET-OUT TABLE		
SET-OUT POINT	EASTING	NORTHING
DUN-CD-US-1	341993.233	6528506.468
DUN-CD-US-2	342076.236	6528697.109

NOTES:

1. EXISTING WATER SUPPLY PIPELINE UNDER UPSTREAM COFFERDAM FOOTPRINT IS TO BE FULLY EXPOSED AND CONCRETE ENCASED PRIOR TO COFFERDAM CONSTRUCTION.
2. FOLLOWING CONSTRUCTION OF DIVERSION TUNNEL (INCLUDING INTAKE TOWER AND APPROACH CHANNEL THE TEMPORARY PIPELINE BYPASS IS TO BE CONSTRUCTED IN THE DIVERSION TUNNEL AND CONNECTED TO THE EXISTING WATER SUPPLY PIPELINE BOTH UPSTREAM AND DOWNSTREAM OF THE DAM FOOTPRINT.
3. ONCE THE BYPASS IS OPERATIONAL, THE EXISTING PIPE UNDER THE UPSTREAM COFFERDAM IS TO BE ABANDONED IN PLACE BY COMPLETELY FILLING WITH SELF-LEVELLING CONCRETE AND GROUTED.
4. EXISTING PIPELINE WITHIN MAIN DAM FOOTPRINT IS TO BE COMPLETELY DEMOLISHED AND REMOVED.

SCALE 1:500 5 0 10 20

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 7:15:41 PM

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DESIGNED 10.08.2020 C. WILTSHIRE
DRAWN 02.09.2020 J. PARISI
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SHEET: A1
FILE
REPORT
JOB

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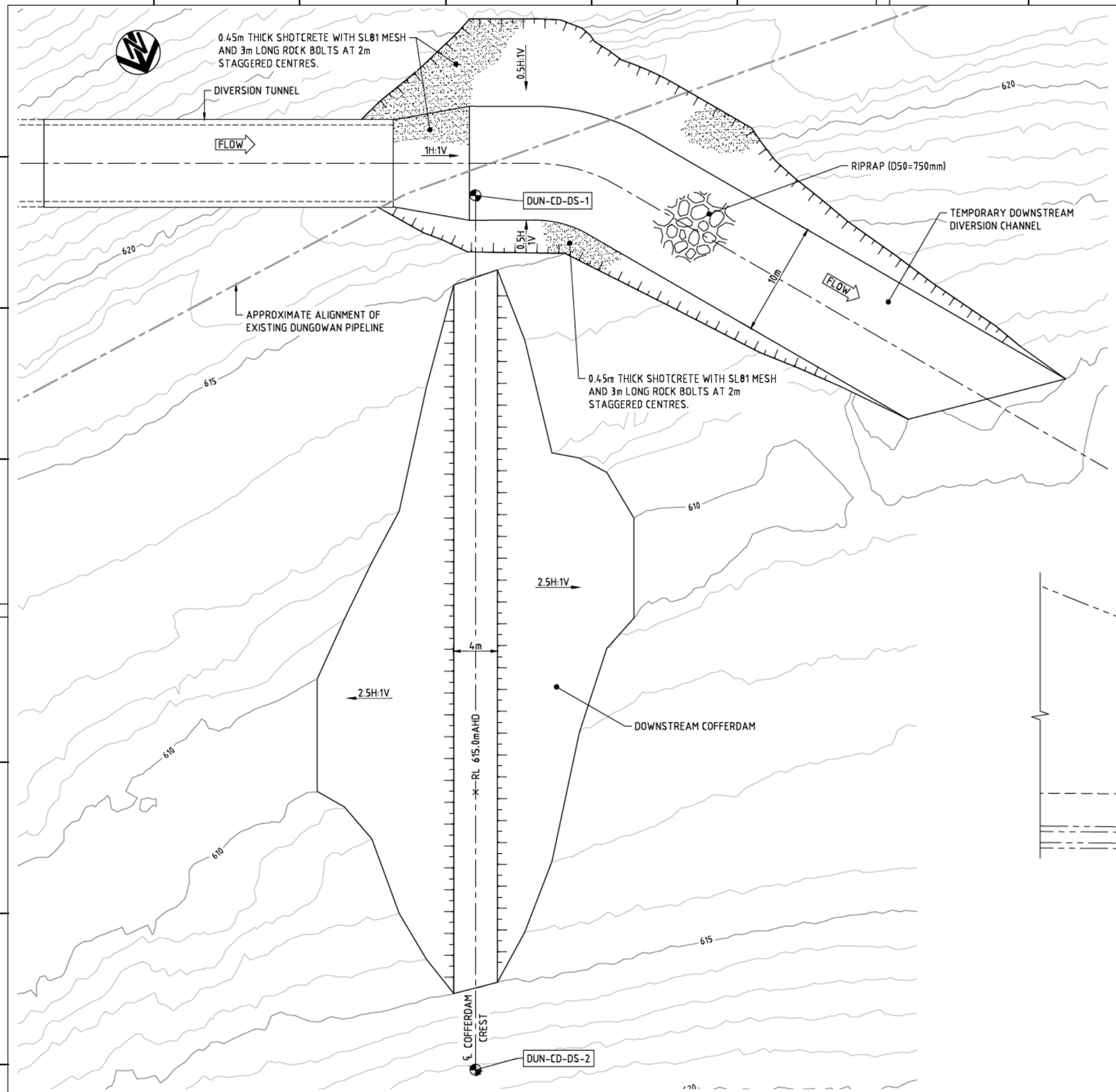
DUNGOWAN DAM - FINAL CONCEPT DESIGN

DIVERSION WORKS
UPSTREAM COFFERDAM
DETAILED PLAN

REV. B A
PLAN No. DUN-DIV-0221



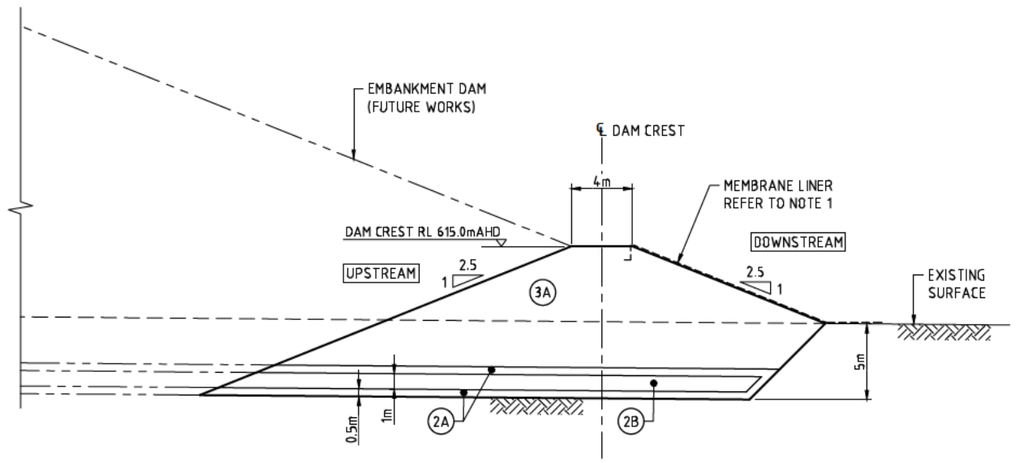
PLAN VIEW

SCALE 1:200

UPSTREAM COFFERDAM AXIS SET-OUT TABLE		
SET-OUT POINT	EASTING	NORTHING
DUN-CD-DS-1	341748.895	6528655.831
DUN-CD-DS-2	341780.828	6528729.175

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSESSING WHETHER OR NOT A TEMPORARY GEOMEMBRANE LINER IS REQUIRED ON THE DOWNSTREAM FACE OF THE DOWNSTREAM COFFERDAM TO PREVENT WATER FROM ENTERING INTO THE WORKS AREA.
2. IF A TEMPORARY GEOMEMBRANE LINER IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, INSTALLING, MAINTAINING AND REMOVING THE LINER.
3. CONTRACTOR WILL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF TEMPORARY DOWNSTREAM DIVERSION CHANNEL.
4. TEMPORARY DOWNSTREAM DIVERSION CHANNEL DESIGN IS TO INCLUDE CONSIDERATION OF DIVERSION TUNNEL DISCHARGE CAPACITY, DOWNSTREAM DIVERSION TUNNEL PORTAL GEOMETRY, PERMANENT DOWNSTREAM COFFERDAM CREST LEVELS AND TAILWATER LEVELS.



DOWNSTREAM COFFERDAM TYPICAL SECTION

SCALE 1:200

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 8:06:35 PM

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DRAWN 02.09.2020 J. PARISI
CHECKED 11.09.2020 C. WILTSHIRE

SCALES: AS NOTED
SHEET: A1
FILE
REPORT
JOB

WaterNSW

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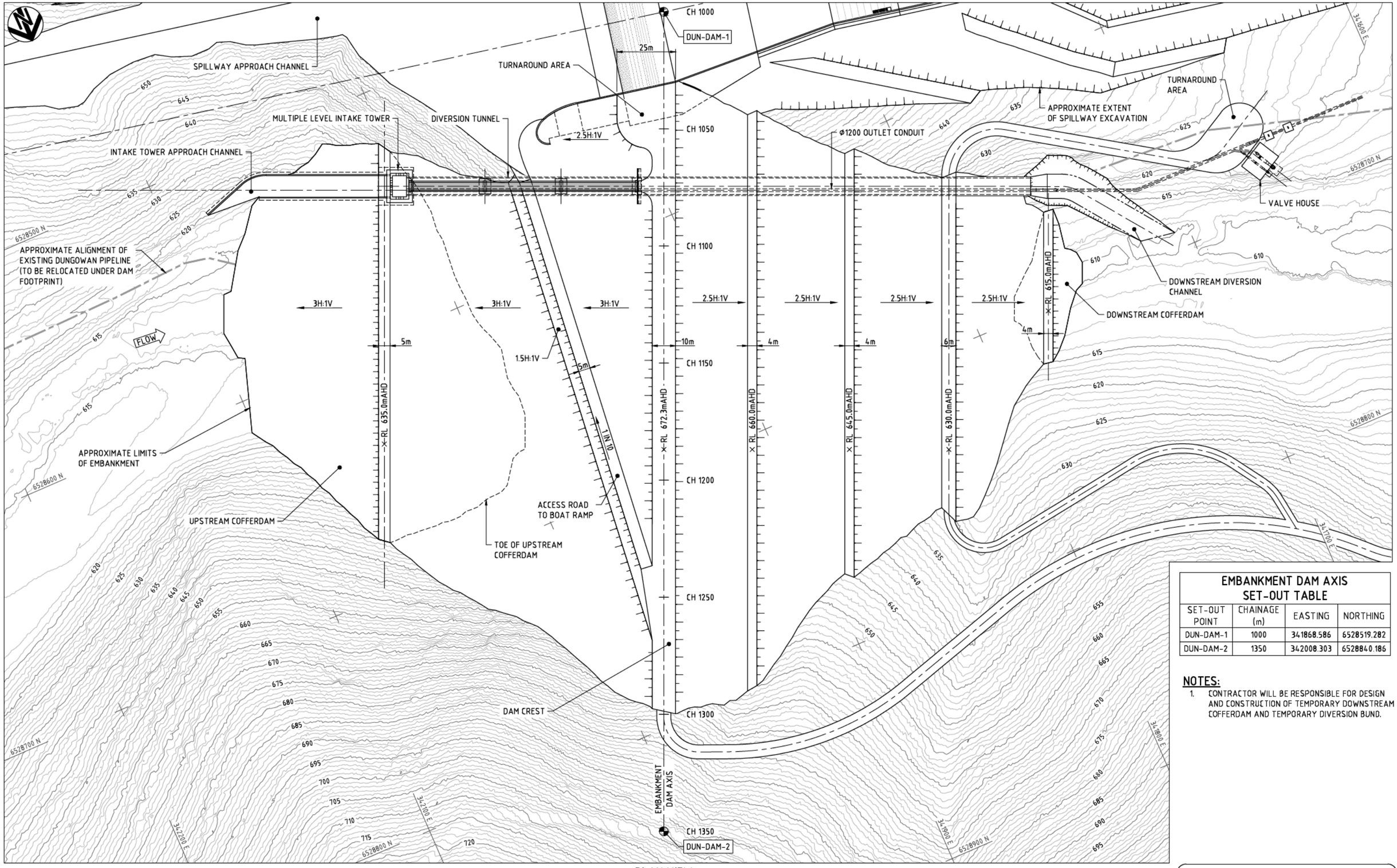
DUNGOWAN DAM - FINAL CONCEPT DESIGN

DIVERSION WORKS
DOWNSTREAM COFFERDAM
DETAILED PLAN

REV. B, A

PLAN No. DUN-DIV-0231



PLAN VIEW

SCALE 1:750

EMBANKMENT DAM AXIS SET-OUT TABLE			
SET-OUT POINT	CHAINAGE (m)	EASTING	NORTHING
DUN-DAM-1	1000	341868.586	6528519.282
DUN-DAM-2	1350	342008.303	6528840.186

NOTES:

1. CONTRACTOR WILL BE RESPONSIBLE FOR DESIGN AND CONSTRUCTION OF TEMPORARY DOWNSTREAM COFFERDAM AND TEMPORARY DIVERSION BUND.

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 7:40:11 PM

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JOB

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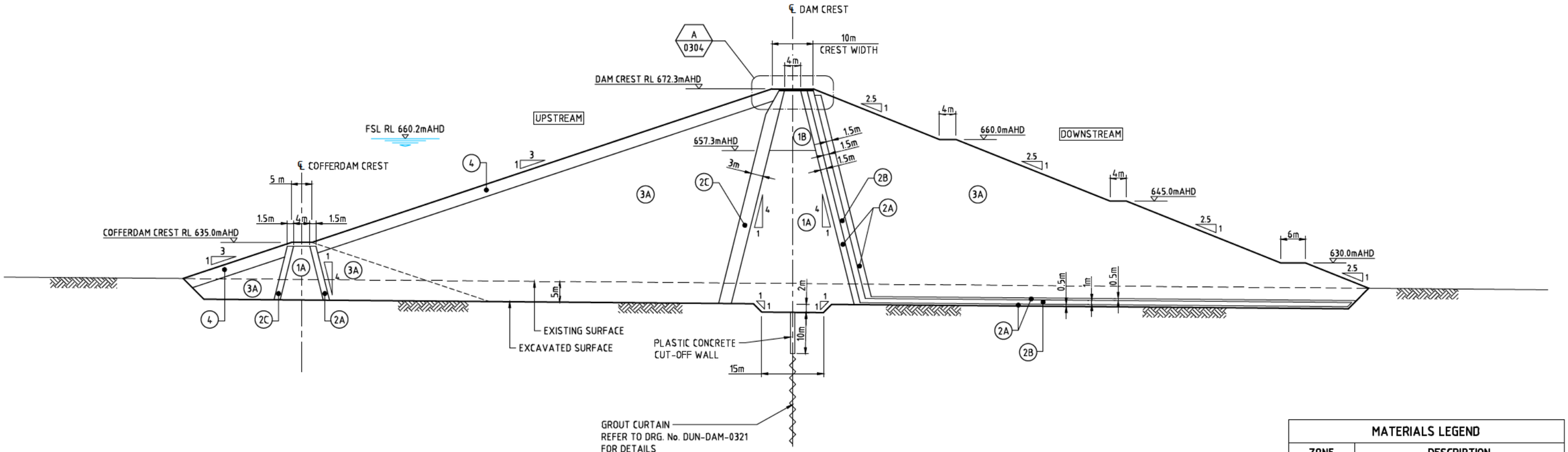
DUNGOWAN DAM - FINAL CONCEPT DESIGN

EMBANKMENT DAM
DETAILED PLAN

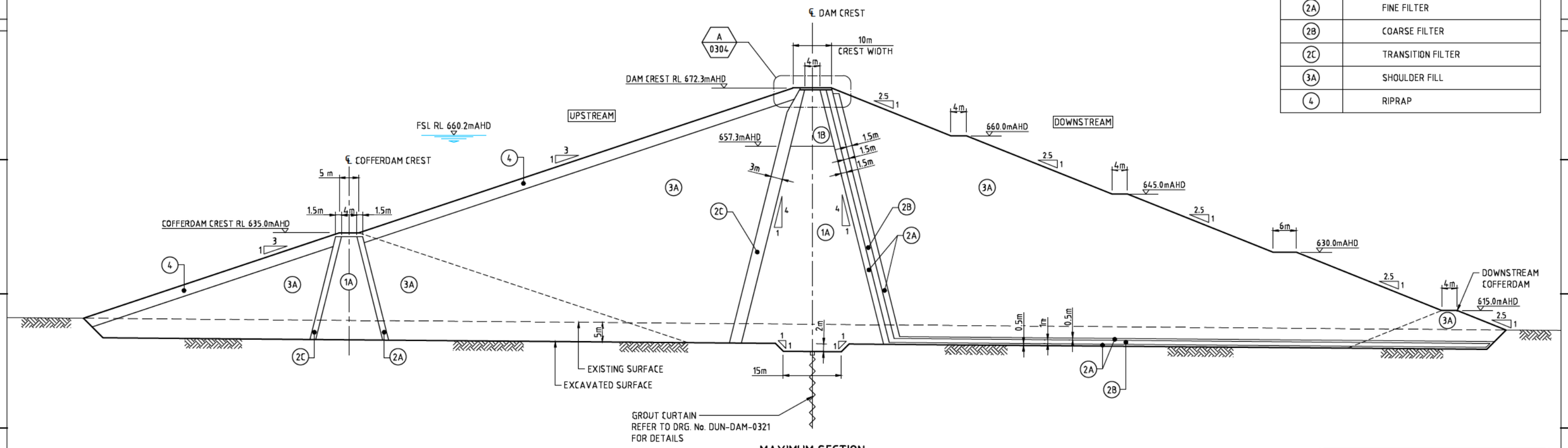
REV. B, A
PLAN No. DUN-DAM-0301



LEFT ABUTMENT

SCALE 1:500

MATERIALS LEGEND	
ZONE	DESCRIPTION
1A	CLAY CORE (SPILLWAY EXCAVATION)
1B	CLAY CORE (VALLEY ALLUVIALS)
2A	FINE FILTER
2B	COARSE FILTER
2C	TRANSITION FILTER
3A	SHOULDER FILL
4	RIPRAP



MAXIMUM SECTION

SCALE 1:500

SCALE 1:500 5 0 10 20

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
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PLOT DATE:	19/10/2020 7:12:31 PM

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SCALES AS NOTED		SHEET A1
FILE	REPORT	JOB

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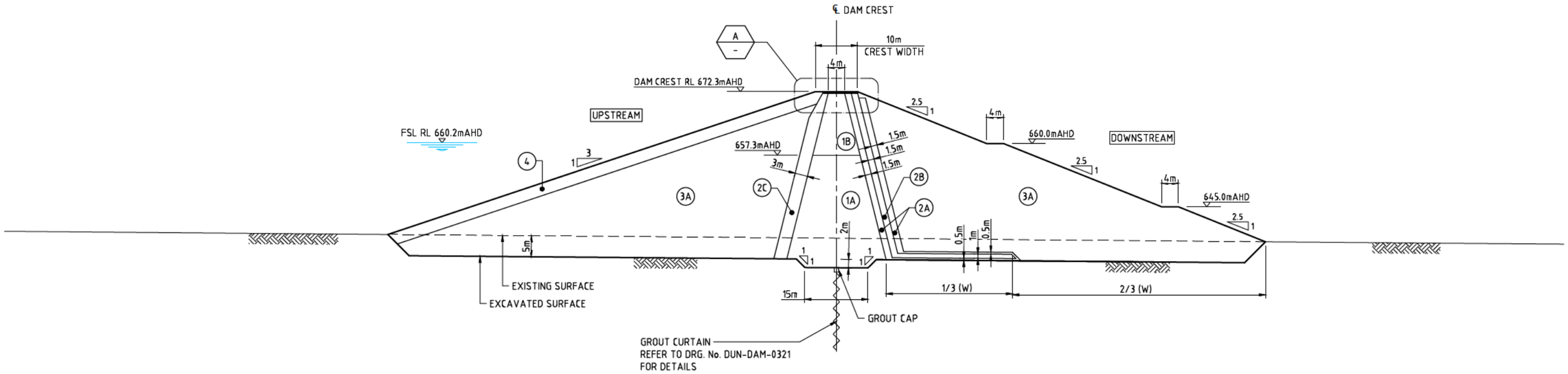
DUNGOWAN DAM - FINAL CONCEPT DESIGN

EMBANKMENT DAM
EMBANKMENT SECTIONS
SHEET 1

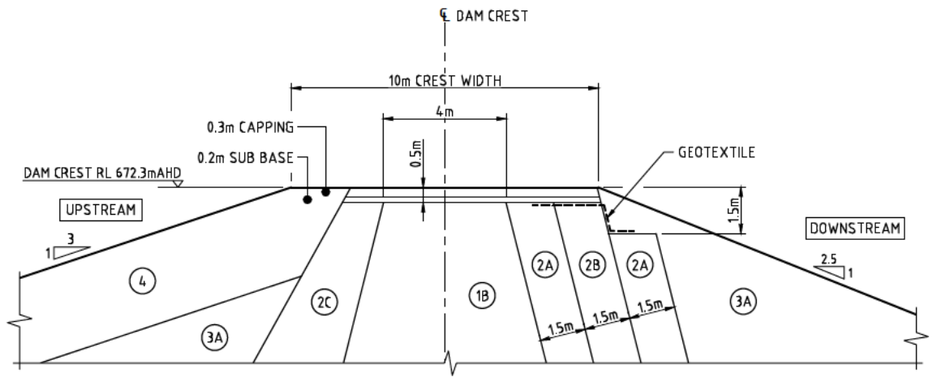
REV.	PLAN No.
B	DUN-DAM-0303
A	



RIGHT ABUTMENT

SCALE 1:500

MATERIALS LEGEND	
ZONE	DESCRIPTION
1A	CLAY CORE (SPILLWAY EXCAVATION)
1B	CLAY CORE (VALLEY ALLUVIALS)
2A	FINE FILTER
2B	COARSE FILTER
2C	TRANSITION FILTER
3A	SHOULDER FILL
4	RIPRAP



CREST DETAIL

SCALE 1:100

SCALE 1:100 1 0 1 2 3 4 5

SCALE 1:500 5 0 10 20

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:12:52 PM

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TOWER 4, LEVEL 20, 727 COLLINS STREET DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020	SCALES	AS NOTED
C. WILTSHIRE			
DRAWN	02.09.2020	FILE	REPORT
E. HICKS			
CHECKED	11.09.2020		
C. WILTSHIRE			

SHEET A1
JOB

WaterNSW

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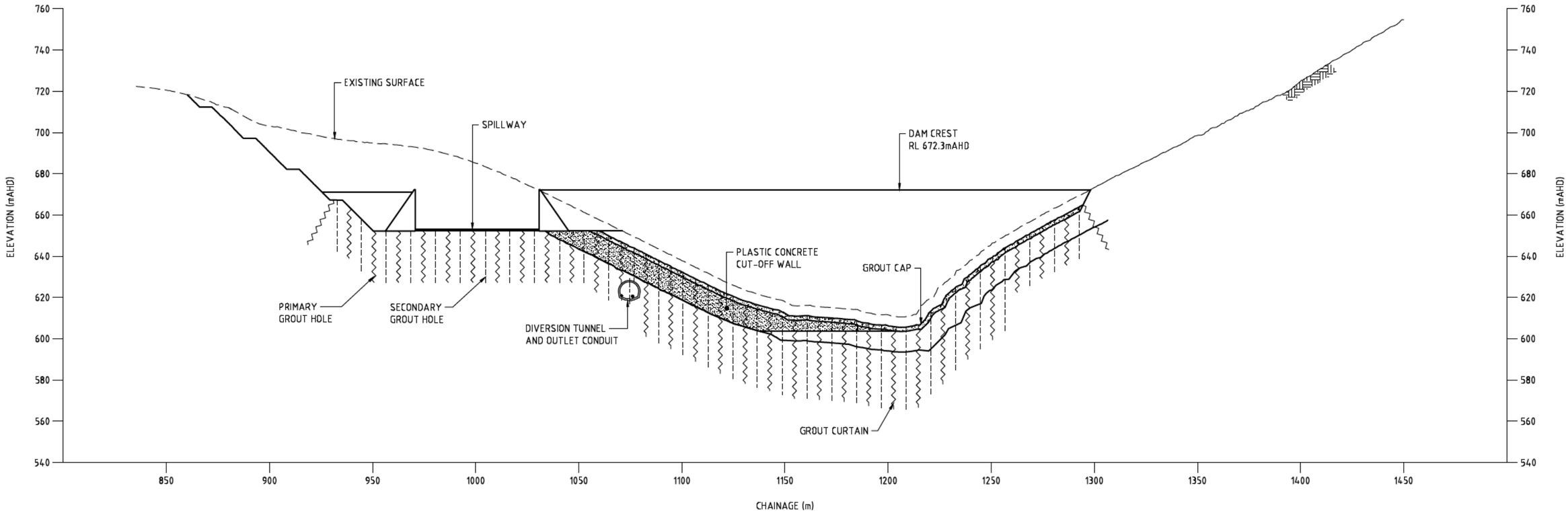
DUNGOWAN DAM - FINAL CONCEPT DESIGN

EMBANKMENT DAM
EMBANKMENT SECTIONS
SHEET 2

REV. B A

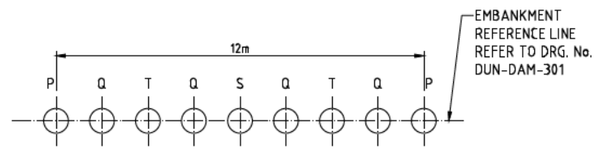
PLAN No. DUN-DAM-0304



DAM AXIS – ELEVATION

SCALE 1:1000

GROUT HOLE DETAILS					
DESIGNATION	EXTENT	HOLE SPACING	25m HOLE DEPTH EXTENT	40m HOLE DEPTH EXTENT	HOLE ORIENTATION
P	CH 931 – CH 1295	12m	CH 931 – CH 1071 (LEFT ABUTMENT) CH 1263 – CH1295 (RIGHT ABUTMENT)	CH 1083 – 1251	90° (VERTICAL)
S	CH 933 – CH 1077	6m	CH 933 – CH 1077 (LEFT ABUTMENT) CH 1269 – CH1293 (RIGHT ABUTMENT)	CH 1089 – 1257	90° (VERTICAL)
T	CH 936 – CH 1290	3m	CH 936 – CH 1080 (LEFT ABUTMENT) CH 1266 – CH1296 (RIGHT ABUTMENT)	CH 1086 – 1260	90° (VERTICAL)
Q	CH 934 – CH 1291	1.5m	CH 934 – CH 1081(LEFT ABUTMENT) CH 1264 – CH1294 (RIGHT ABUTMENT)	CH 1084 – 1252	90° (VERTICAL)



GROUTING HOLE DETAIL – TYPICAL DETAIL

SCALE 1:100

NOTES:

1. CHAINAGES ARE RELEVANT TO EMBANKMENT REFERENCE LINE.
2. THE NEED FOR TERTIARY AND QUATERNARY HOLES TO BE DETERMINED BASED ON RESULTS FROM WATER PRESSURE TESTING IN SECONDARY AND SUBSEQUENT HOLES.
3. DEPTH AND EXTENT OF GROUT HOLES ARE PRELIMINARY.

SCALE 1:100 1 0 1 2 3 4 5

SCALE 1:1000 10 0 10 20 30 40 50

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 7:13:14 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED 10.08.2020 C. WILTSHIRE
DRAWN 02.09.2020 E. HICKS
CHECKED 11.09.2020 C. WILTSHIRE

SCALES AS NOTED
SHEET A1
FILE
REPORT
JOB

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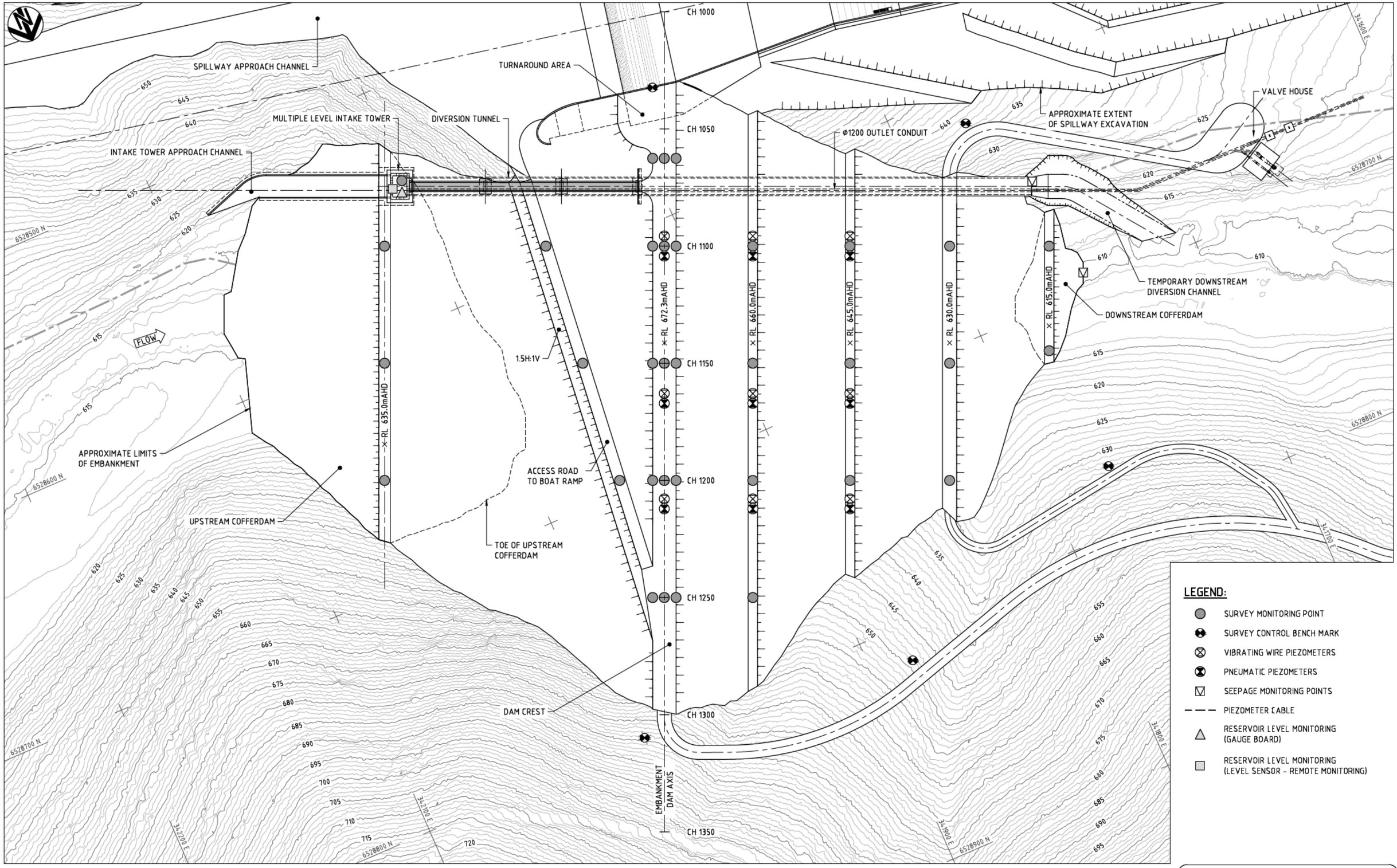
DUNGOWAN DAM - FINAL CONCEPT DESIGN

EMBANKMENT DAM
FOUNDATION
GROUTING PLAN AND ELEVATION

REV. B A
PLAN No. DUN-DAM-0321



SCALE 1:750 5 0 10 20 30

PLAN VIEW

SCALE 1:750

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:42:48 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
A	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20

DESIGNED	28.09.2020 C. WILTSHIRE
DRAWN	29.09.2020 J. PARISI
CHECKED	30.09.2020 C. WILTSHIRE

SCALES		SHEET
AS NOTED		A1
FILE	REPORT	JOB

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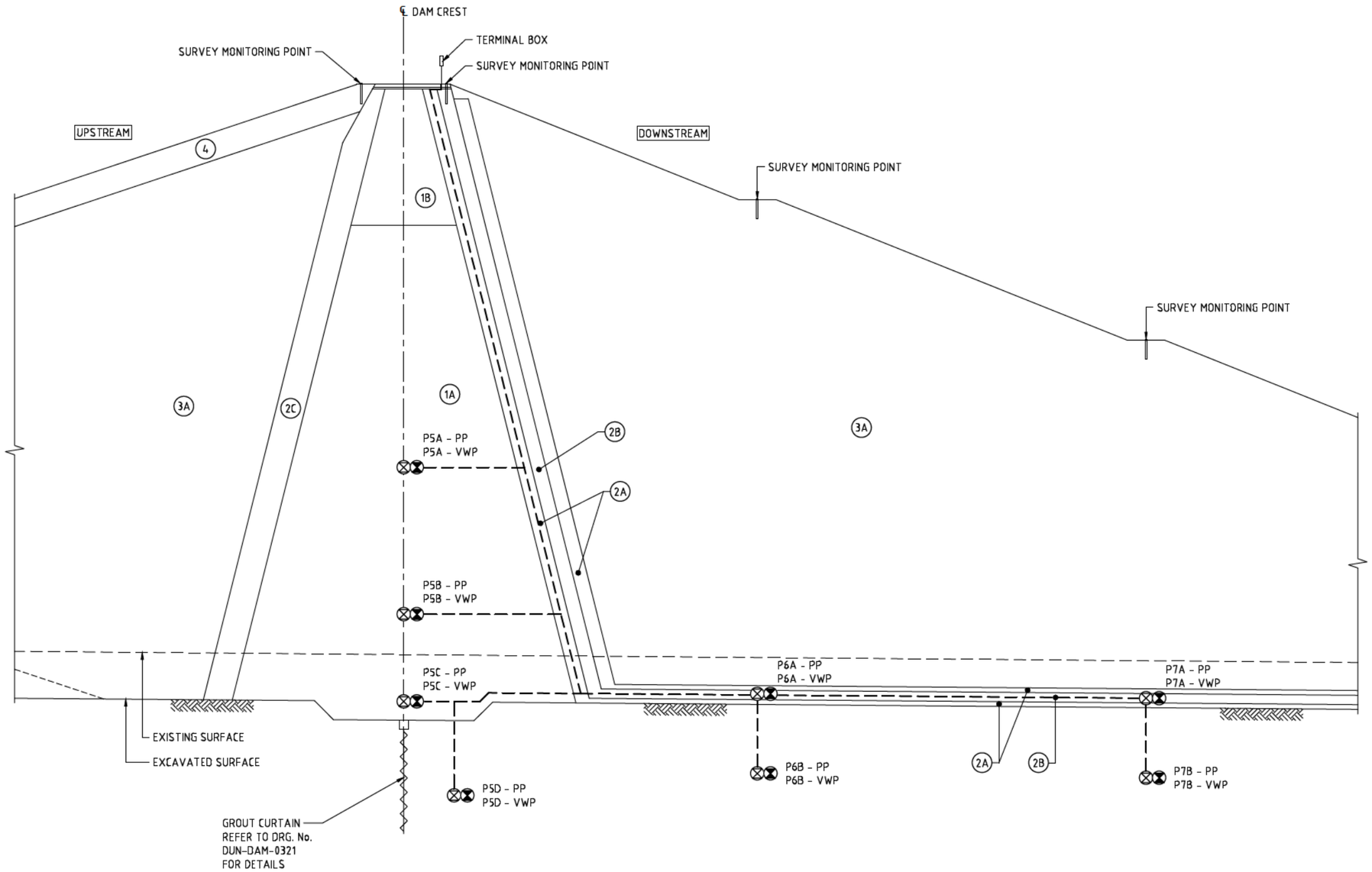
DUNGOWAN DAM - FINAL CONCEPT DESIGN

EMBANKMENT DAM
INSTRUMENTATION
DETAILED PLAN

REV. A

PLAN No. DUN-DAM-0361



MAXIMUM SECTION

SCALE 1:250

MATERIALS LEGEND	
ZONE	DESCRIPTION
1A	CLAY CORE (SPILLWAY EXCAVATION)
1B	CLAY CORE (VALLEY ALLUVIALS)
2A	FINE FILTER
2B	COARSE FILTER
2C	TRANSITION FILTER
3A	SHOULDER FILL
4	RIPRAP

INSTRUMENTATION LEGEND:

- ⊗ VIBRATING WIRE PIEZOMETERS
- ⧗ PNEUMATIC PIEZOMETERS
- — — — PIEZOMETER CABLE

SCALE 1:250 2.5 0 5 10

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 7:14:12 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
A	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20

DESIGNED 28.09.2020 C. WILTSHIRE
DRAWN 29.09.2020 J. PARISI
CHECKED 30.09.2020 C. WILTSHIRE

SCALES: AS NOTED
SHEET: A1
FILE
REPORT
JOB

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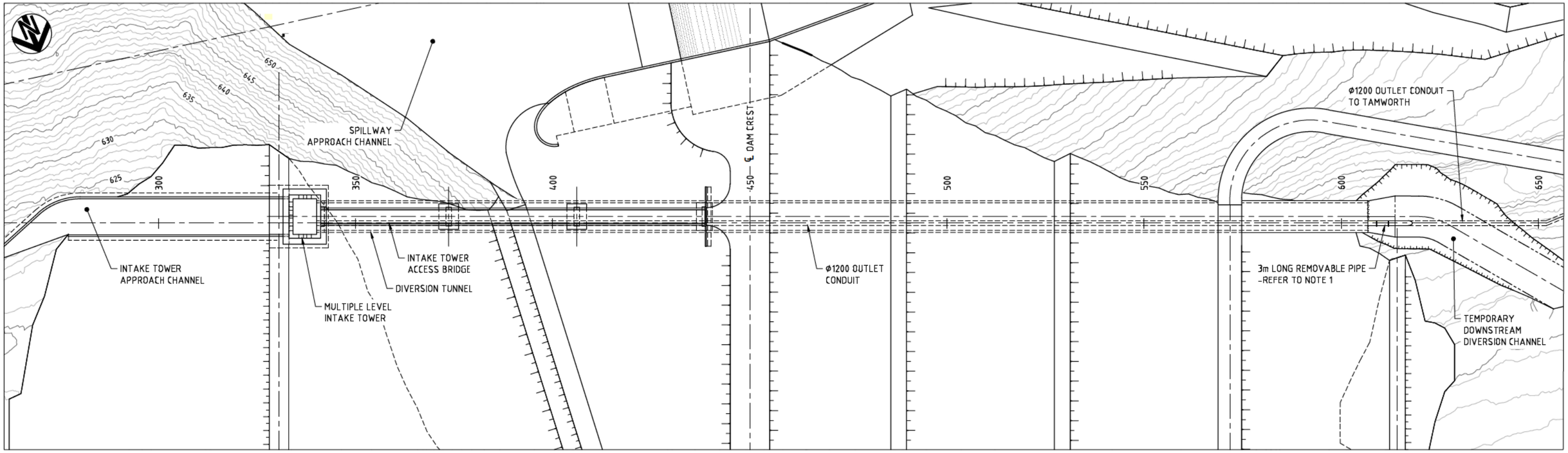
DUNGOWAN DAM - FINAL CONCEPT DESIGN

EMBANKMENT DAM
INSTRUMENTATION
SECTIONS AND DETAILS

REV. A
PLAN No. DUN-DAM-0362

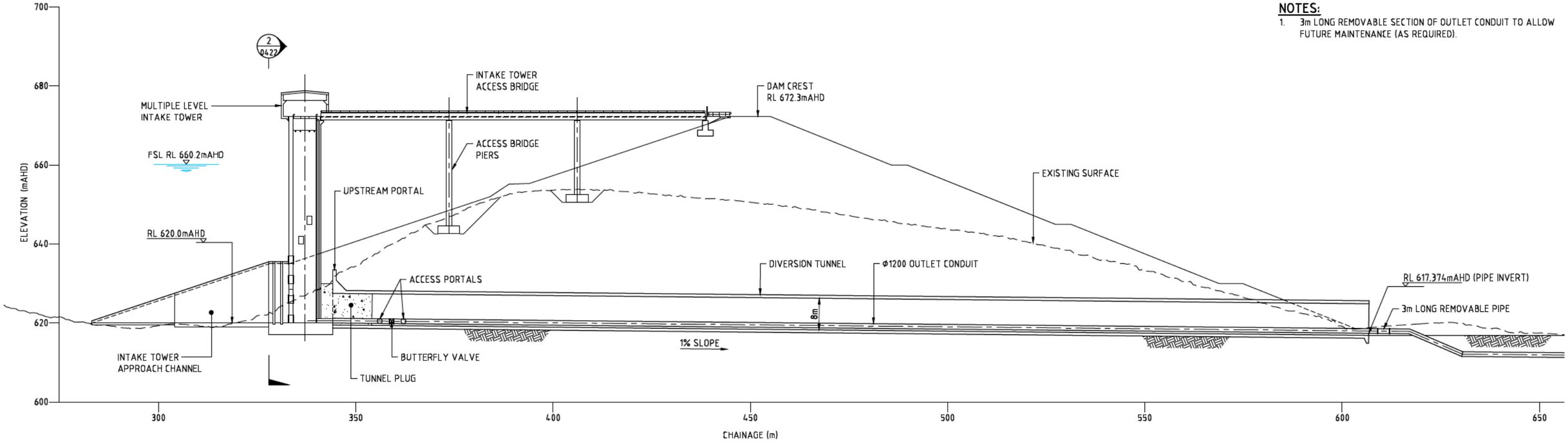


OUTLET WORKS- PLAN

SCALE 1:500

NOTES:

1. 3m LONG REMOVABLE SECTION OF OUTLET CONDUIT TO ALLOW FUTURE MAINTENANCE (AS REQUIRED).



OUTLET WORKS- LONGITUDINAL SECTION

SCALE 1:500

SCALE 1:500 5 0 10 20

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:21:26 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020 C. WILTSHIRE
DRAWN	02.09.2020 S. CHERY
CHECKED	11.09.2020 C. WILTSHIRE

SCALES		SHEET
AS NOTED		A1
FILE	REPORT	JOB

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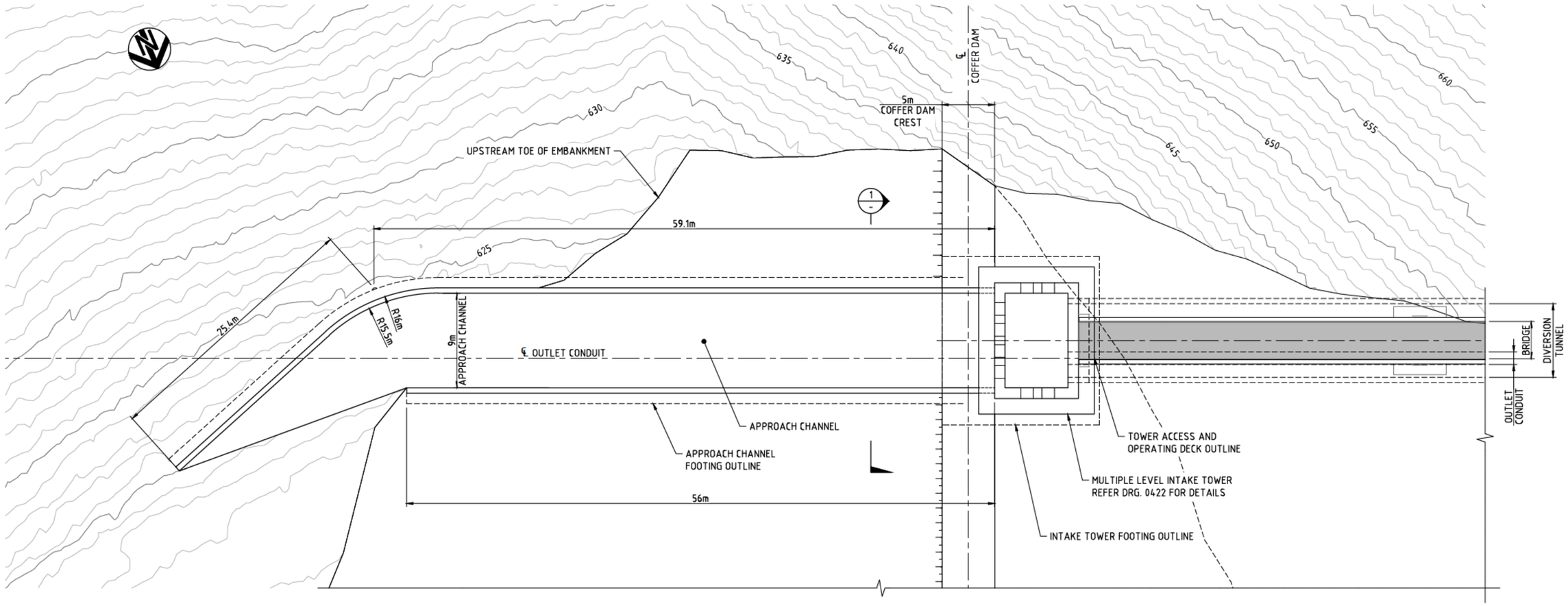
DUNGOWAN DAM - FINAL CONCEPT DESIGN

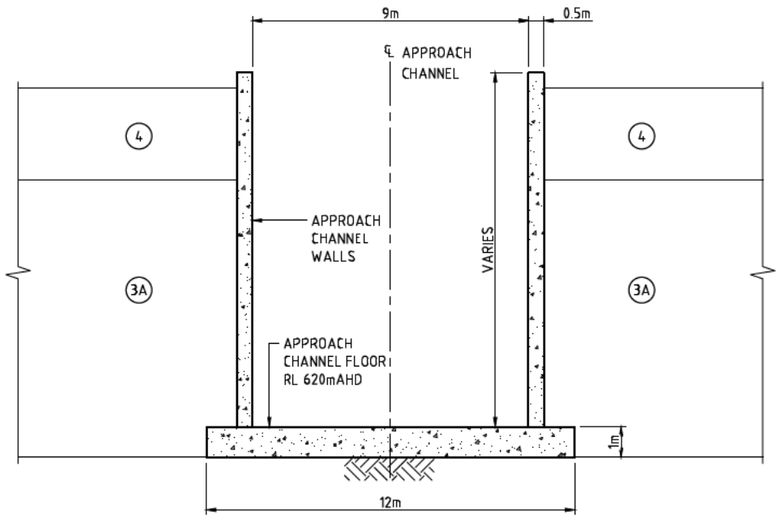
OUTLET WORKS
DETAILED PLAN AND LONGITUDINAL SECTION

REV.	PLAN No.
B	DUN-OUT-0401
A	



INTAKE TOWER PLAN

SCALE 1:200



SECTION 1 -

SCALE 1:100

SCALE 1:100 1 0 1 2 3 4 5

SCALE 1:200 2 0 2 4 6 8 10

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:22:01 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020 C. WILTSHIRE
DRAWN	02.09.2020 S. CHERY
CHECKED	11.09.2020 C. WILTSHIRE

SCALES		SHEET
AS NOTED		A1
FILE	REPORT	JOB

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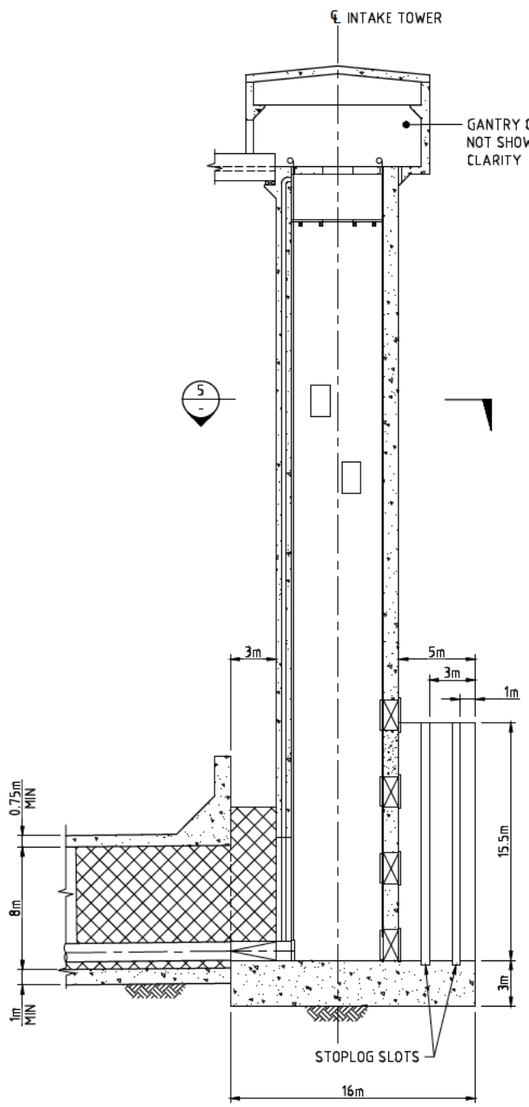
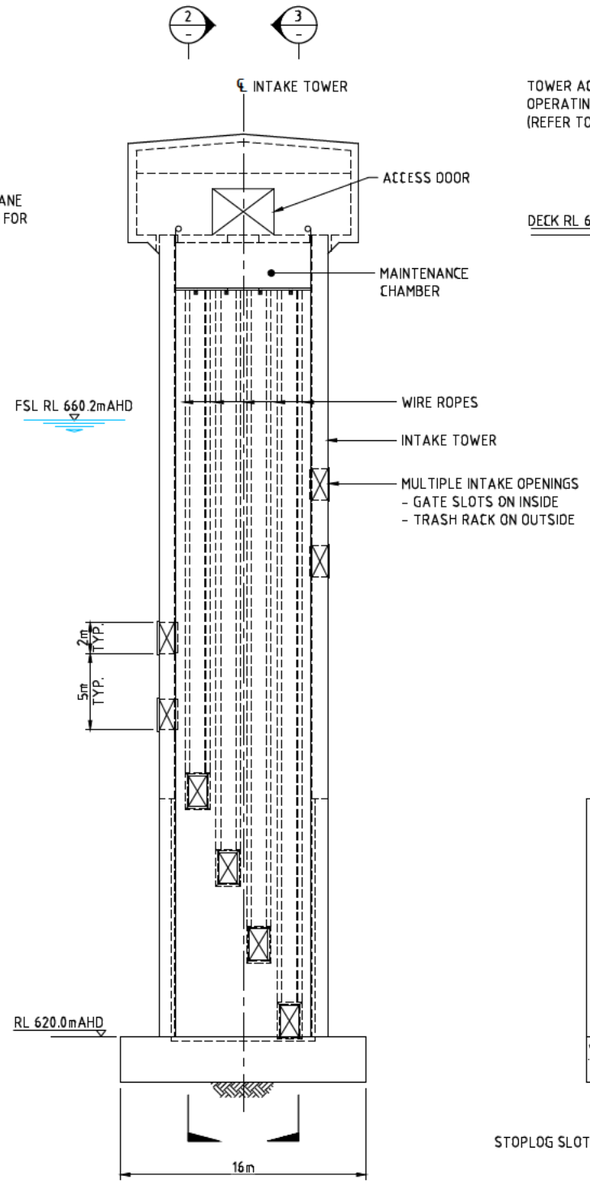
DUNGOWAN DAM - FINAL CONCEPT DESIGN

OUTLET WORKS
INTAKE TOWER
DETAILED PLAN

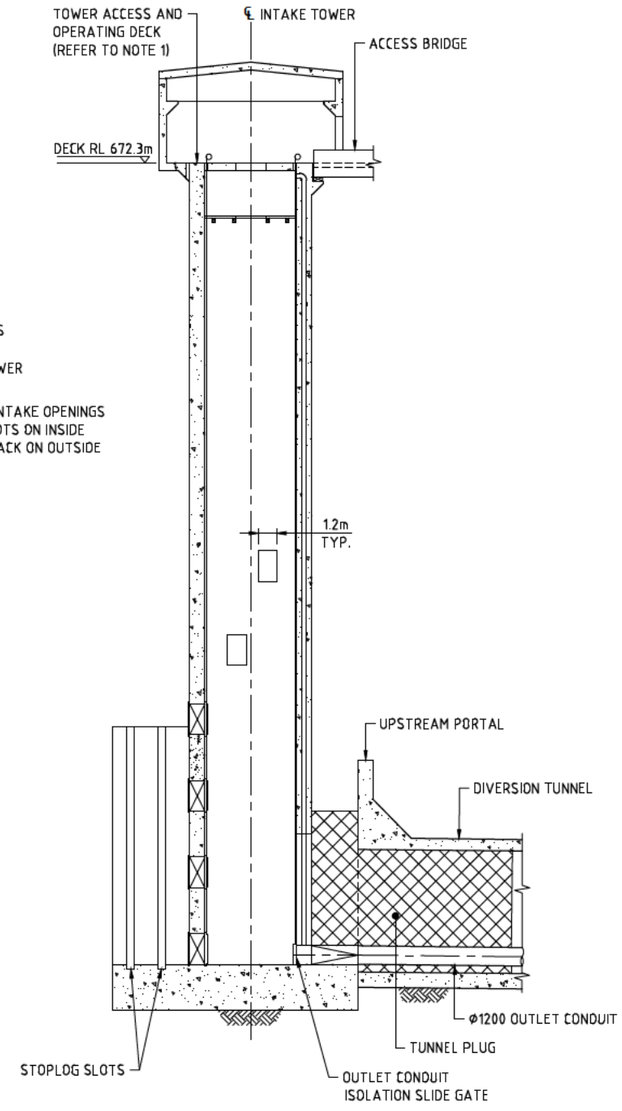
REV.	PLAN No.
	DUN-OUT-0421
B	
A	



SECTION 3 / -
SCALE 1:200

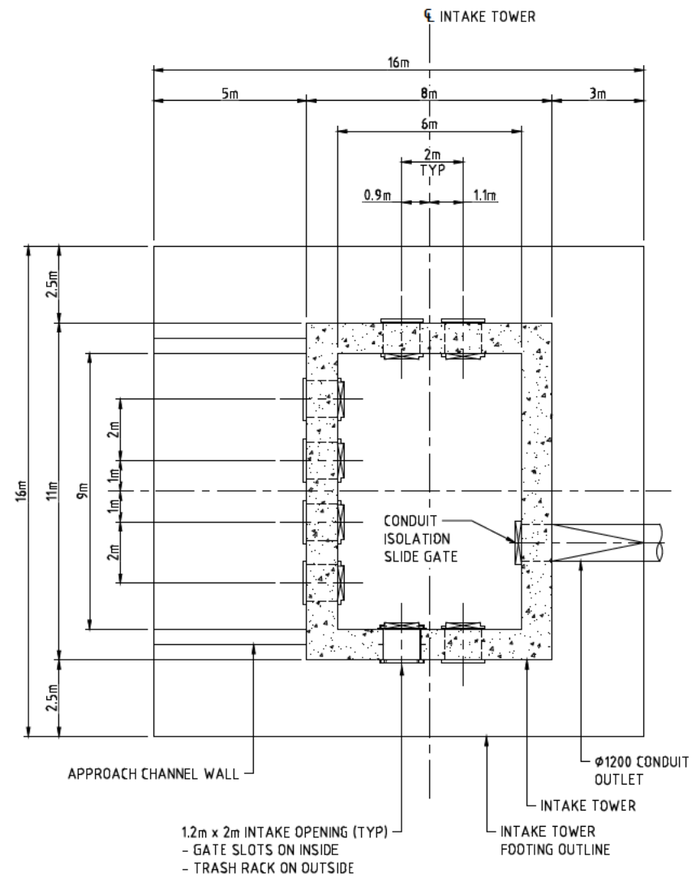


VIEW 2 / 0401
SCALE 1:200



SECTION 4 / -
SCALE 1:200

INTAKE TOWER VERTICAL ELEVATION



SECTION 5 / -
SCALE 1:100

(INTAKE TOWER APPROACH CHANNEL NOT SHOWN FOR CLARITY)

NOTES:

1. MECHANICAL EQUIPMENT NOT SHOWN FOR CLARITY.
2. INTAKE TOWER APPROACH CHANNEL NOT SHOWN FOR CLARITY.

SCALE 1:100 1 0 1 2 3 4 5
SCALE 1:200 2 0 2 4 6 8 10

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:22:24 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020 C. WILTSHIRE
DRAWN	02.09.2020 S. CHERY
CHECKED	11.09.2020 C. WILTSHIRE

SCALES: AS NOTED		SHEET: A1
FILE	REPORT	JOB

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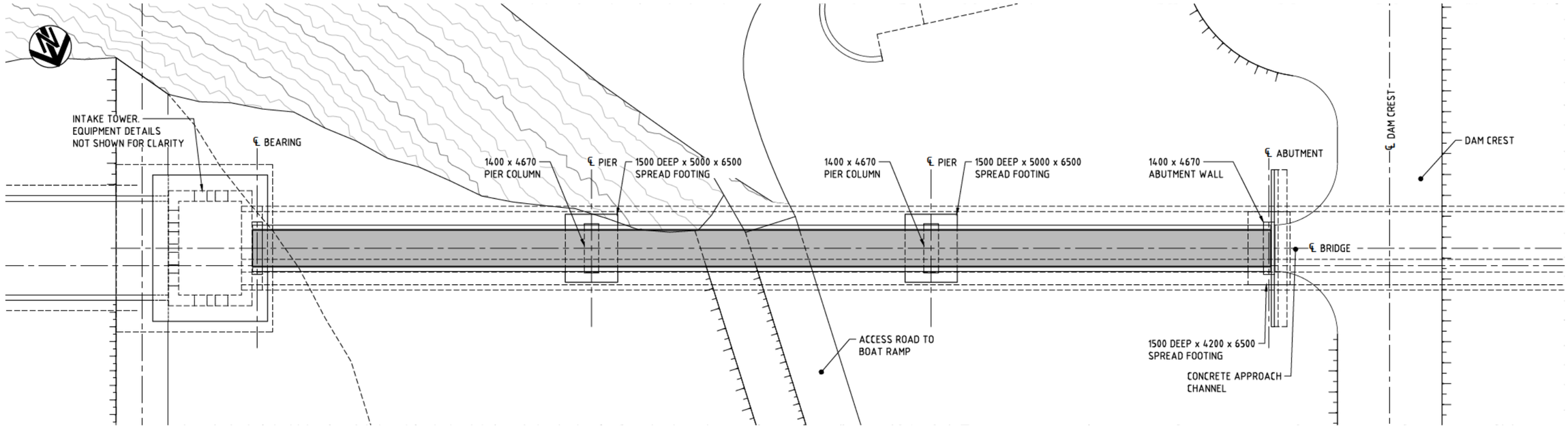
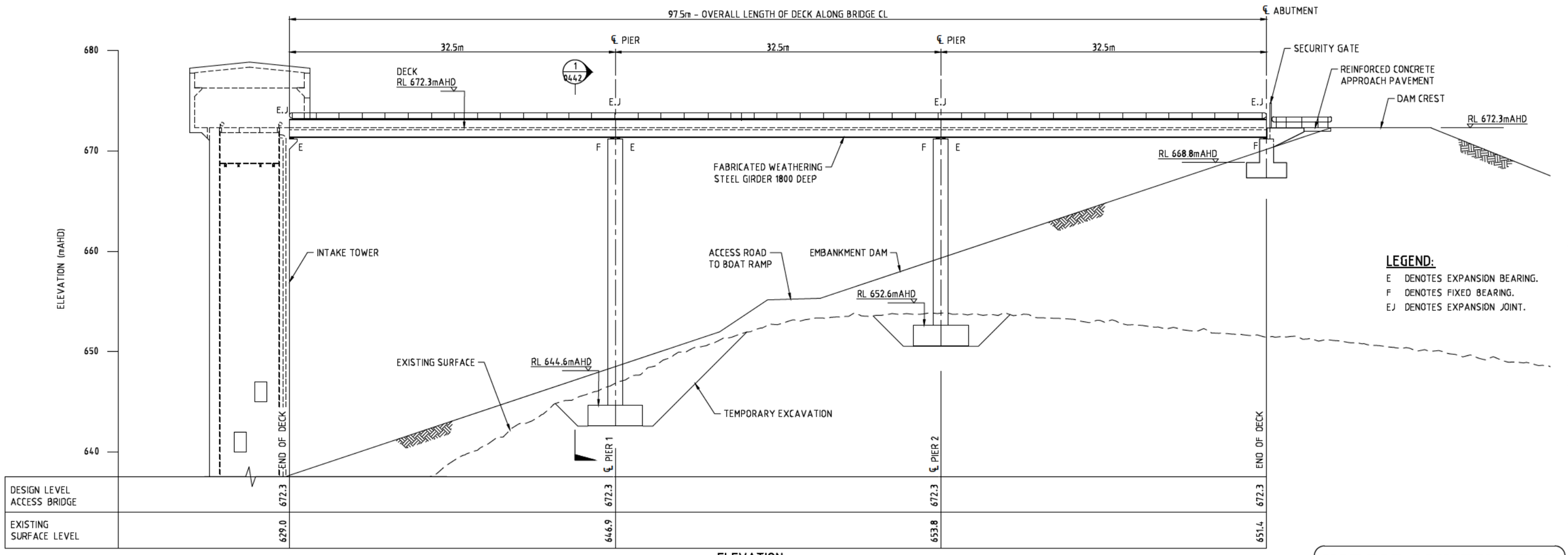
DUNGOWAN DAM - FINAL CONCEPT DESIGN

OUTLET WORKS
INTAKE TOWER
SECTIONS AND DETAIL

REV.	PLAN No.
	DUN-OUT-0422
B	
A	





ELEVATION
SCALE 1:200

SCALE 1:200

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:22:59 PM

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DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020	C. WILTSHIRE
DRAWN	08.09.2020	S. CHERY
CHECKED	11.09.2020	C. WILTSHIRE

SCALES		SHEET
AS NOTED		A1
FILE	REPORT	JOB

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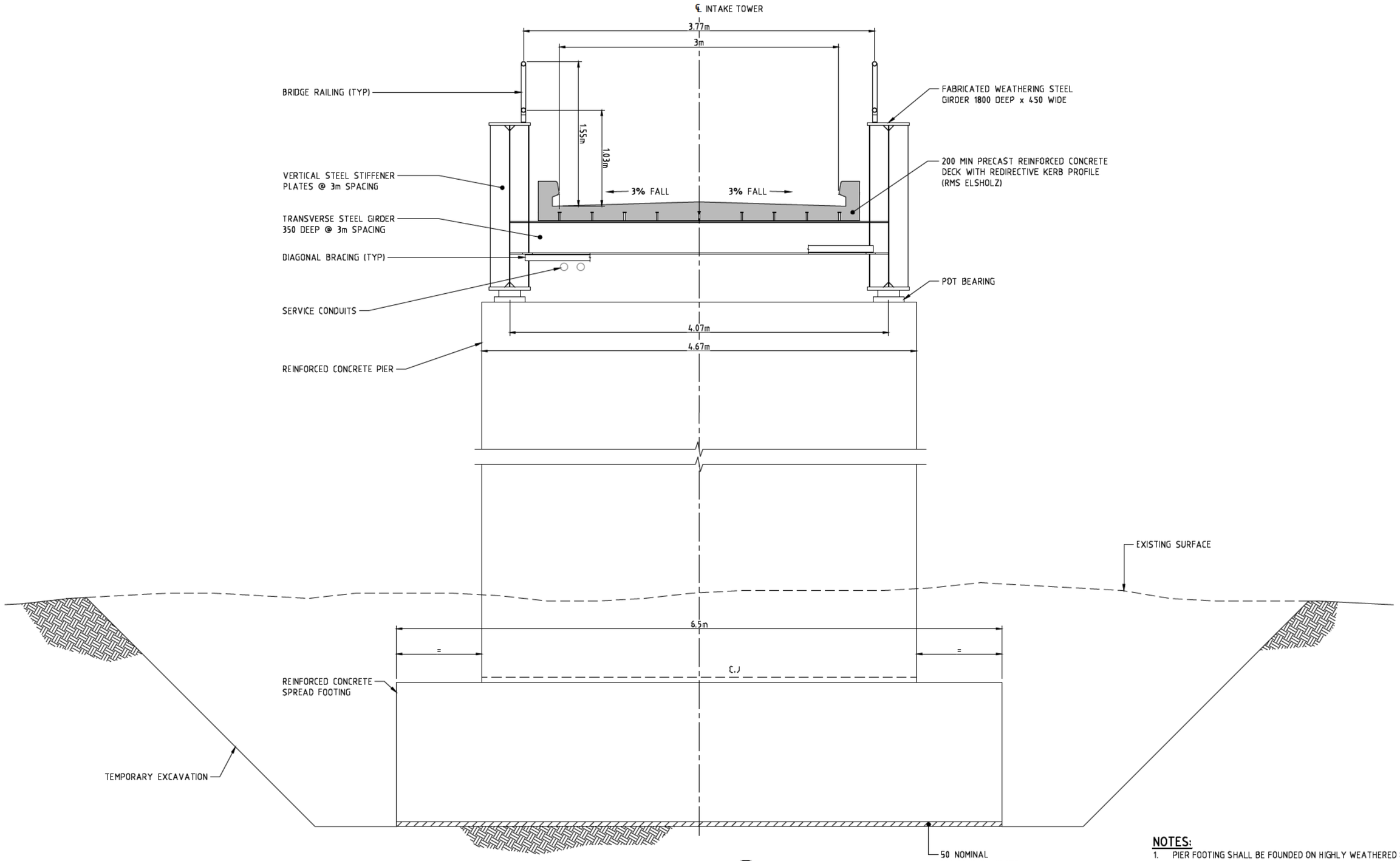
DUNGOWAN DAM - FINAL CONCEPT DESIGN
OUTLET WORKS
INTAKE TOWER ACCESS BRIDGE
SHEET 1

REV.	PLAN No.
B	DUN-OUT-0441
A	



SECTION 1 / 0441
SCALE 1:20

NOTES:

1. PIER FOOTING SHALL BE FOUNDED ON HIGHLY WEATHERED OR BETTER (LESS WEATHERED) ROCK WITH AN ALLOWABLE BEARING CAPACITY OF AT LEAST 1000kPa.

NOT FOR CONSTRUCTION

SCALE 1:20 0.2 0 0.2 0.4 0.6 0.8 1.0

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:23:23 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020 C. WILTSHIRE
DRAWN	08.09.2020 S. CHERY
CHECKED	11.09.2020 C. WILTSHIRE
SCALES	AS NOTED
SHEET	A1
FILE	
REPORT	
JOB	

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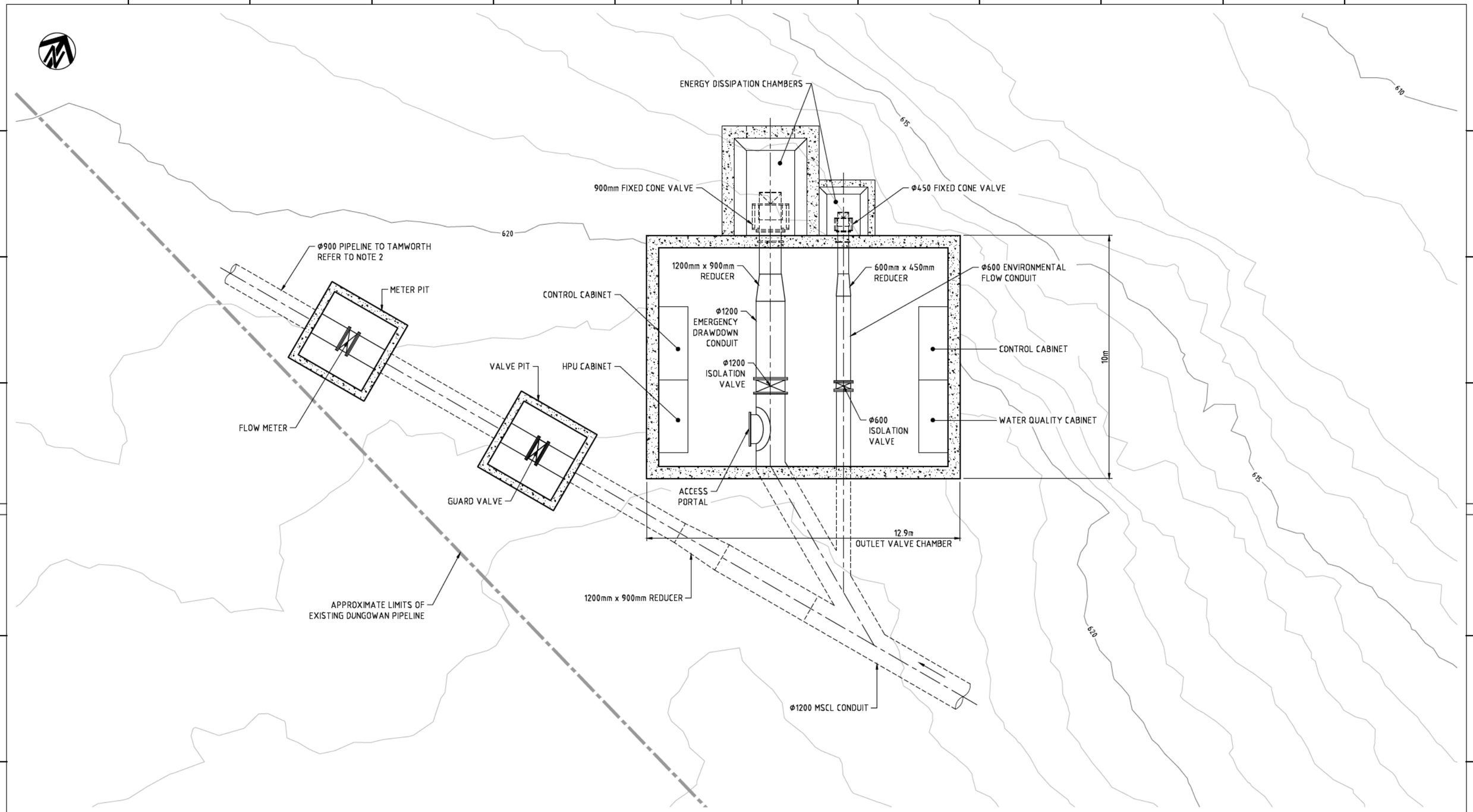
DUNGOWAN DAM - FINAL CONCEPT DESIGN

OUTLET WORKS
INTAKE TOWER ACCESS BRIDGE
SHEET 2

REV.	PLAN No.
	DUN-OUT-0442
B	
A	



VALVE HOUSE - PLAN

SCALE 1:75

NOTES:

1. ACCESS SCREEN IN ROOF OF ENERGY DISSIPATION CHAMBERS ABOVE FIXED CONE VALVES TO ALLOW ACCESS FOR VALVE MAINTENANCE OR REMOVAL NOT SHOWN FOR CLARITY.
2. CONNECTION TO EXISTING TAMWORTH PIPELINE YET TO BE CONFIRMED.

NOT FOR CONSTRUCTION

SCALE 1 : 75 — 0.75 0 0.75 1.50 2.25 3.00 3.75m

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:23:55 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020	C. WILTSHIRE	
DRAWN	08.09.2020	S. CHERY	
CHECKED	11.09.2020	C. WILTSHIRE	

SCALES		SHEET
AS NOTED		A1
FILE	REPORT	JOB

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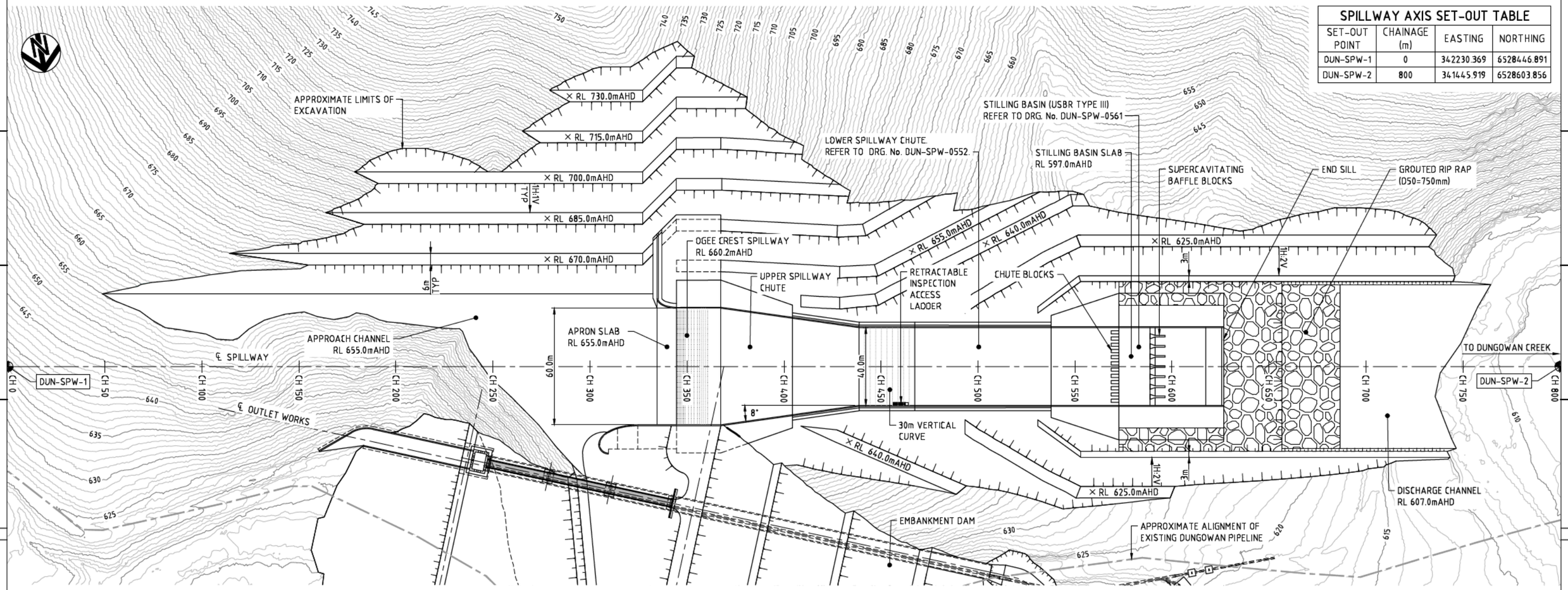
DUNGOWAN DAM - FINAL CONCEPT DESIGN

OUTLET WORKS
VALVE HOUSE
DETAILED PLAN

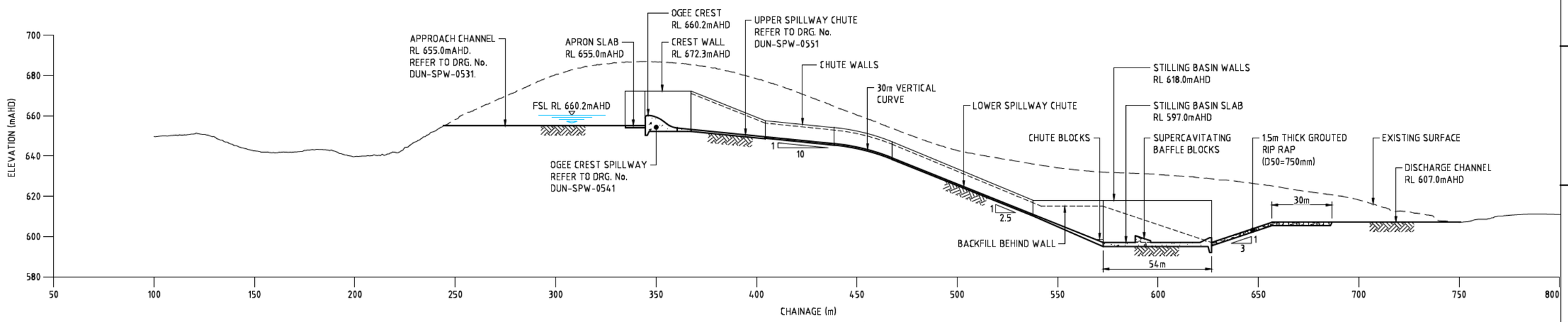
REV.	PLAN No.
	DUN-OUT-0471
B	
A	

SPILLWAY AXIS SET-OUT TABLE			
SET-OUT POINT	CHAINAGE (m)	EASTING	NORTHING
DUN-SPW-1	0	342230.369	6528446.891
DUN-SPW-2	800	341445.919	6528603.856



PLAN VIEW

SCALE 1:1000



SECTION 1

SCALE 1:1000

SCALE 1:1000 10 0 10 20 30 40 50

SPILLWAY LONGITUDINAL SECTION

NOTE:

1. SPILLWAY ANCHORS, DRAINAGE SYSTEM, REINFORCEMENT AND JOINTING DETAILS NOT SHOWN FOR CLARITY.

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 7:38:37 PM

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TOWER 4, LEVEL 20, 727 COLLINS STREET DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED 10.08.2020 C. WILTSHIRE
DRAWN 02.09.2020 J. PARISI
CHECKED 11.09.2020 C. WILTSHIRE

SCALES: AS NOTED
SHEET: A1
FILE
REPORT
JOB

WaterNSW

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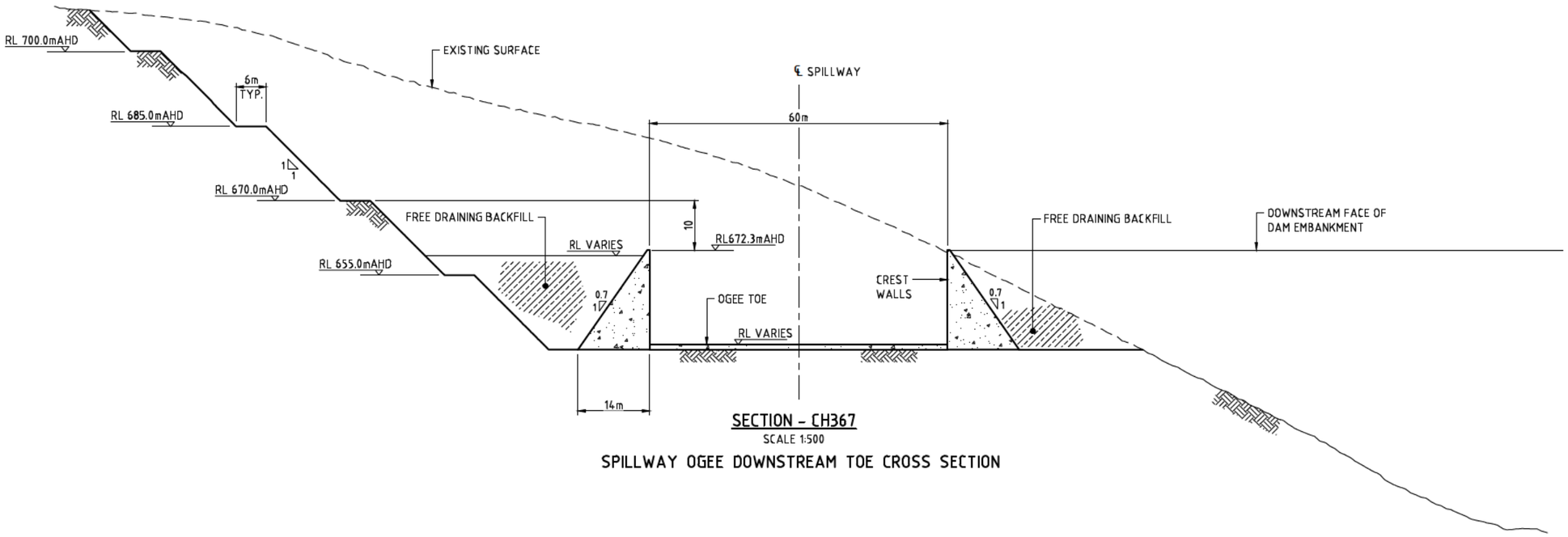
DUNGOWAN DAM - FINAL CONCEPT DESIGN

SPILLWAY
DETAILED PLAN AND LONGITUDINAL SECTION

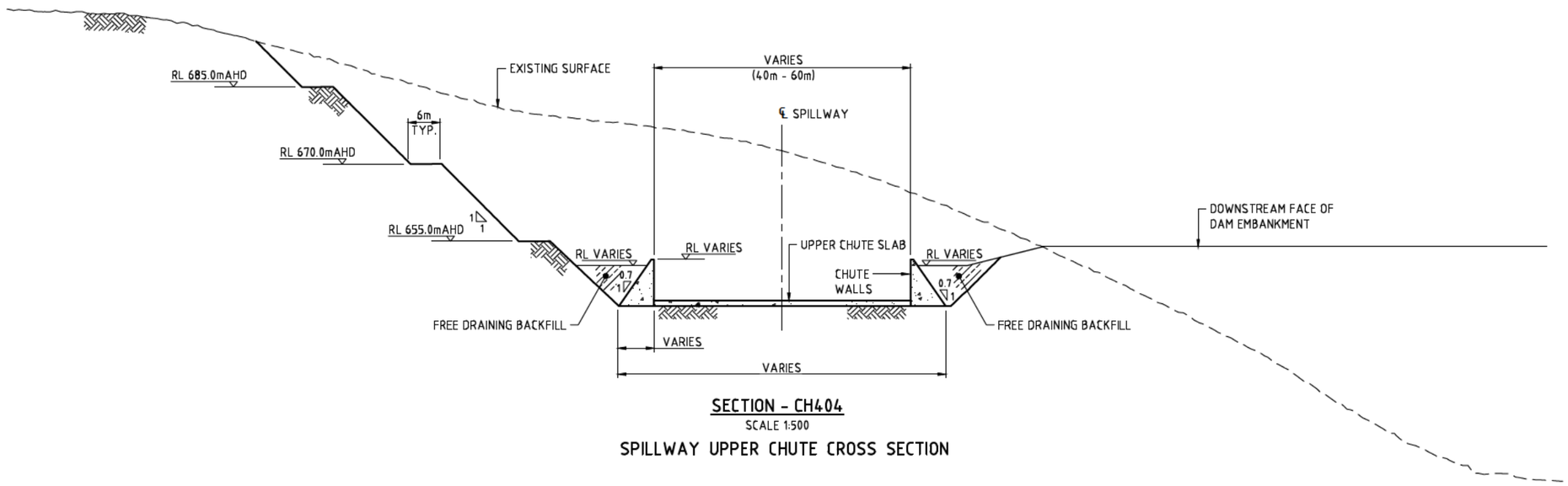
REV. B, A
PLAN No. DUN-SPW-0501



SECTION - CH367

SCALE 1:500

SPILLWAY OGEE DOWNSTREAM TOE CROSS SECTION



SECTION - CH404

SCALE 1:500

SPILLWAY UPPER CHUTE CROSS SECTION

NOTES:

1. SPILLWAY UNDERDRAIN SYSTEM NOT SHOWN FOR CLARITY.
2. REINFORCEMENT NOT SHOWN FOR CLARITY.
3. SPILLWAY ANCHORING NOT SHOWN FOR CLARITY.
4. CONCRETE JOINTING DETAILS NOT SHOWN FOR CLARITY.

NOT FOR CONSTRUCTION

SCALE 1:500 5 0 10 20

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:34:27 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020 C. WILTSHIRE
DRAWN	11.09.2020 S. CHERY
CHECKED	14.09.2020 C. WILTSHIRE

SCALES		SHEET
AS NOTED		A1
FILE	REPORT	JOB

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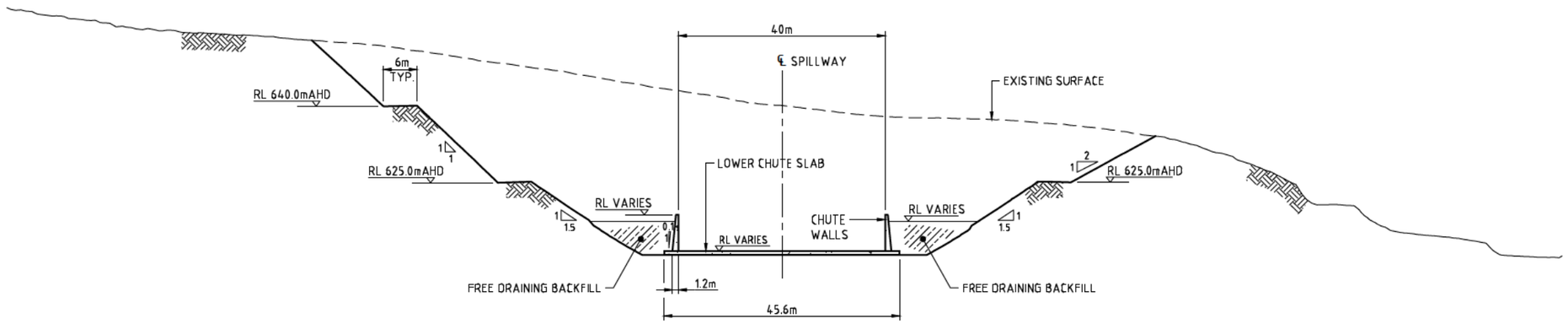
DUNGOWAN DAM - FINAL CONCEPT DESIGN

SPILLWAY
CROSS SECTIONS - SHEET 1

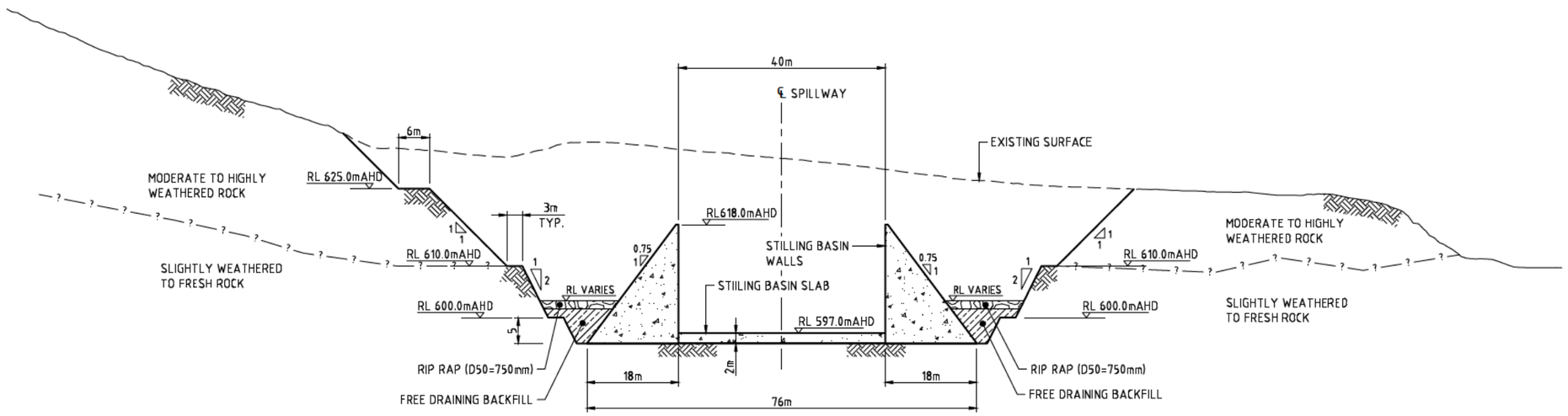
REV.	PLAN No.
	DUN-SPW-0502
B	
A	



SECTION - CH538

SCALE 1:500

SPILLWAY LOWER CHUTE CROSS SECTION



SECTION - CH573 TO CH677

SCALE 1:500

SPILLWAY STILLING BASIN CROSS SECTION

NOTES:

1. SPILLWAY UNDERDRAIN SYSTEM NOT SHOWN FOR CLARITY.
2. REINFORCEMENT NOT SHOWN FOR CLARITY.
3. SPILLWAY ANCHORING NOT SHOWN FOR CLARITY.
4. CONCRETE JOINTING DETAILS NOT SHOWN FOR CLARITY.

NOT FOR CONSTRUCTION

SCALE 1:500 5 0 10 20

SYSTEM:					DESIGNED 10.08.2020	SCALES AS NOTED	SHEET A1	REV. / PLAN No.
FACILITY NAME:	DUNGOWAN DAM				C. WILTSHIRE			DUN-SPW-0503
LOCATION CODE:					DRAWN 11.09.2020	FILE / REPORT	JOB	
DISCIPLINE:	Civil				S. CHERY			
DRAWING TYPE:	Construction Details				CHECKED 14.09.2020			
DRAWING STATUS:	Preliminary	B	ISSUED FOR FINAL CONCEPT DESIGN	J.R. 19.10.20	C. WILTSHIRE			B
LAST AMENDED:		A	ISSUED FOR CONCEPT DESIGN	J.R. 14.09.20				A
PLOT DATE:	19/10/2020 7:34:22 PM	REVISION	DETAILS OF AMENDMENT	APP D DATE				

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DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

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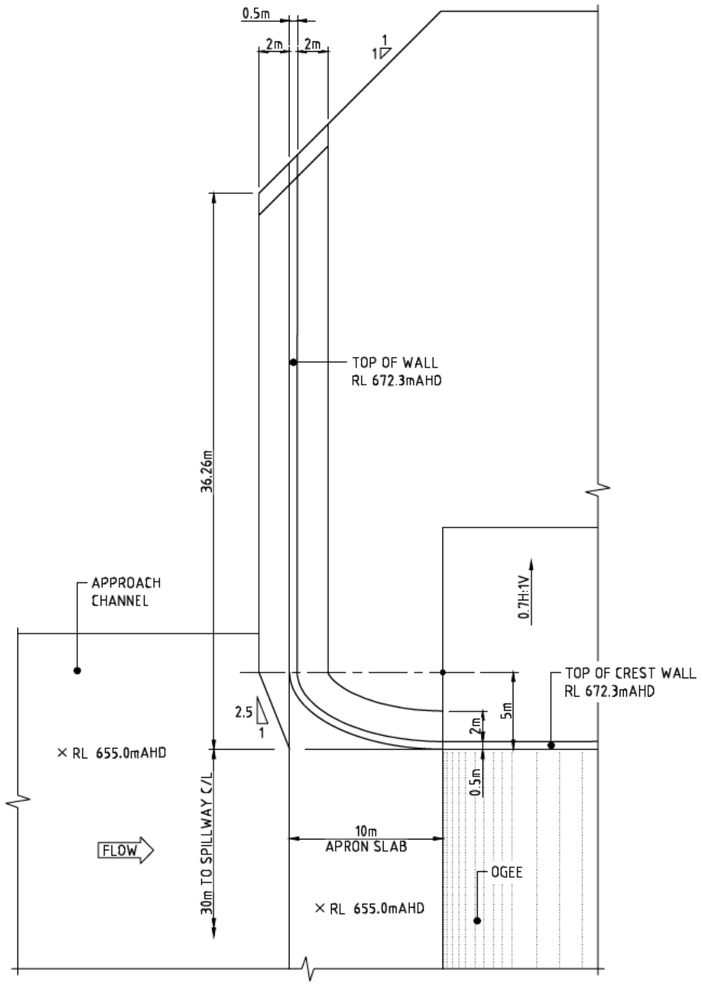
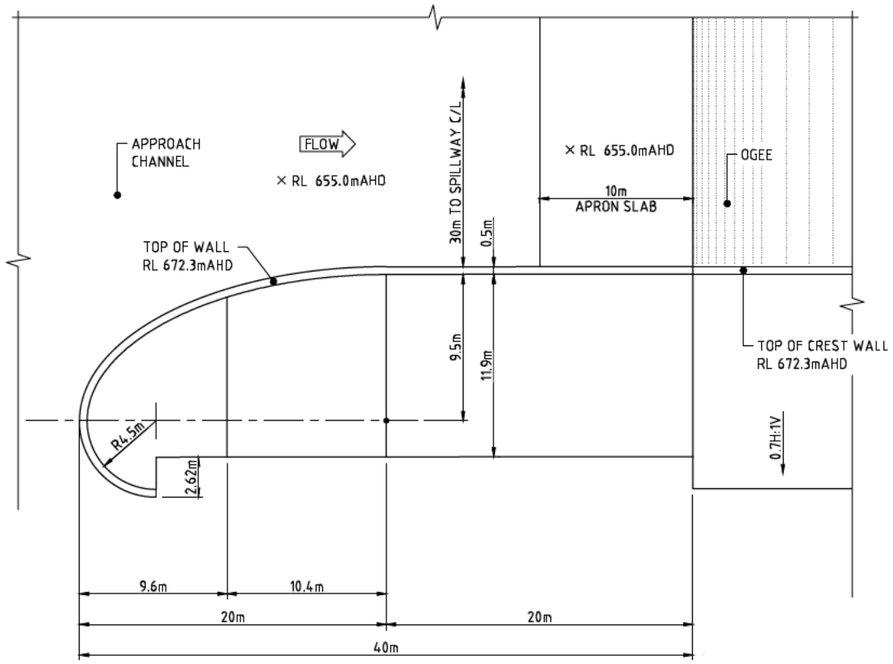
DUNGOWAN DAM - FINAL CONCEPT DESIGN

SPILLWAY
CROSS SECTIONS - SHEET 2



SPILLWAY LEFT APPROACH WALL - PLAN

SCALE 1:200



SPILLWAY RIGHT APPROACH WALL - PLAN

SCALE 1:200

SCALE 1:200 2 0 2 4 6 8 10

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 7:27:41 PM

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DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED 10.08.2020 C. WILTSHIRE
DRAWN 08.09.2020 J. PARISI
CHECKED 14.09.2020 C. WILTSHIRE

SCALES: AS NOTED
SHEET: A1
FILE
REPORT
JOB

WaterNSW

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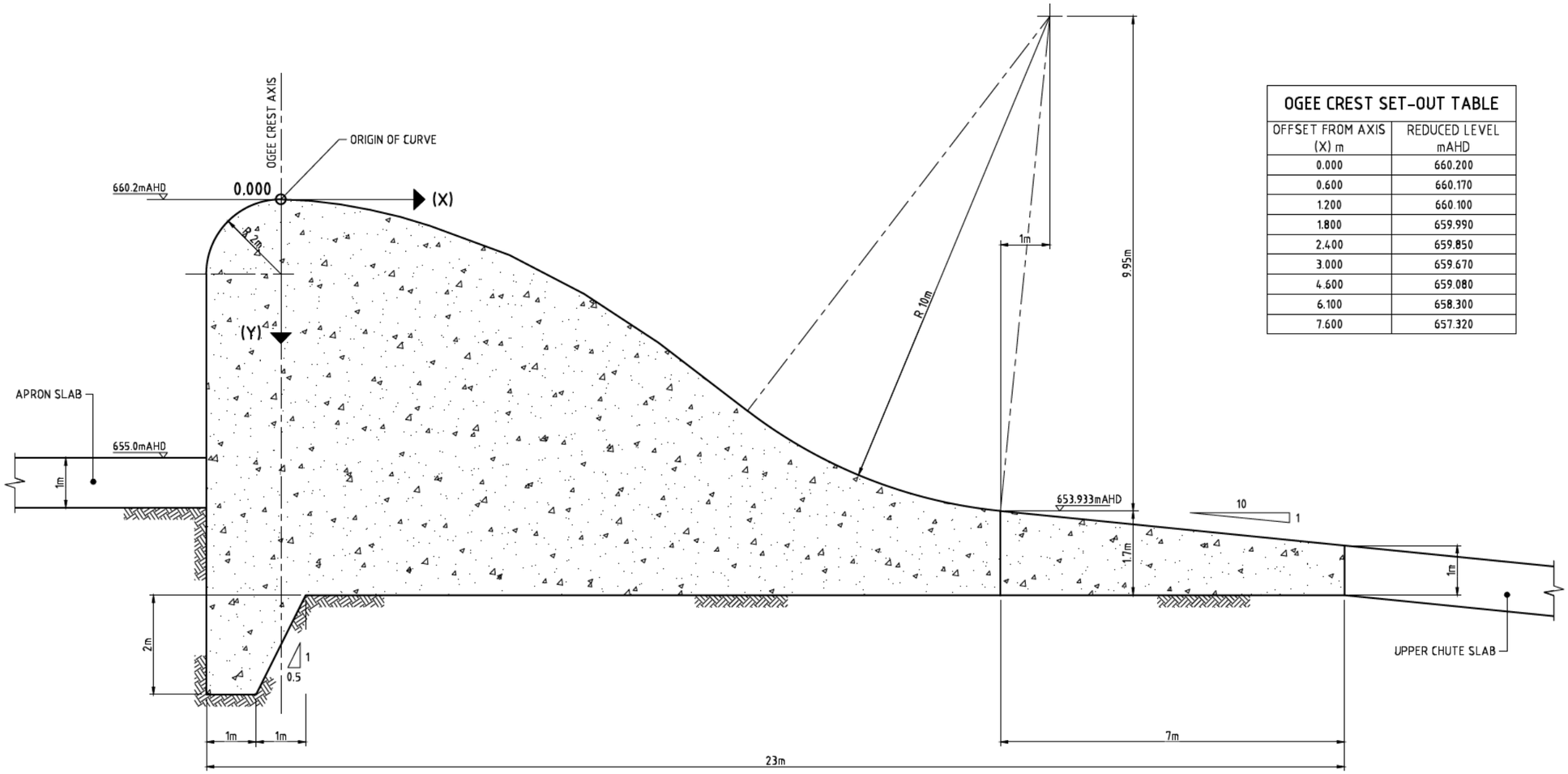
DUNGOWAN DAM - FINAL CONCEPT DESIGN

SPILLWAY
APPROACH CHANNEL
CONCRETE OUTLINE

REV. B, A

PLAN No. DUN-SPW-0531



OGEE CREST SET-OUT TABLE

OFFSET FROM AXIS (X) m	REDUCED LEVEL mAHD
0.000	660.200
0.600	660.170
1.200	660.100
1.800	659.990
2.400	659.850
3.000	659.670
4.600	659.080
6.100	658.300
7.600	657.320

SPILLWAY OGEE

SCALE 1:50

SCALE 1:50 0.5 0 1 2

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 7:28:02 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED 10.08.2020 C. WILTSHIRE
DRAWN 08.09.2020 J. PARISI
CHECKED 14.09.2020 C. WILTSHIRE

SCALES: AS NOTED
SHEET: A1
FILE
REPORT
JOB

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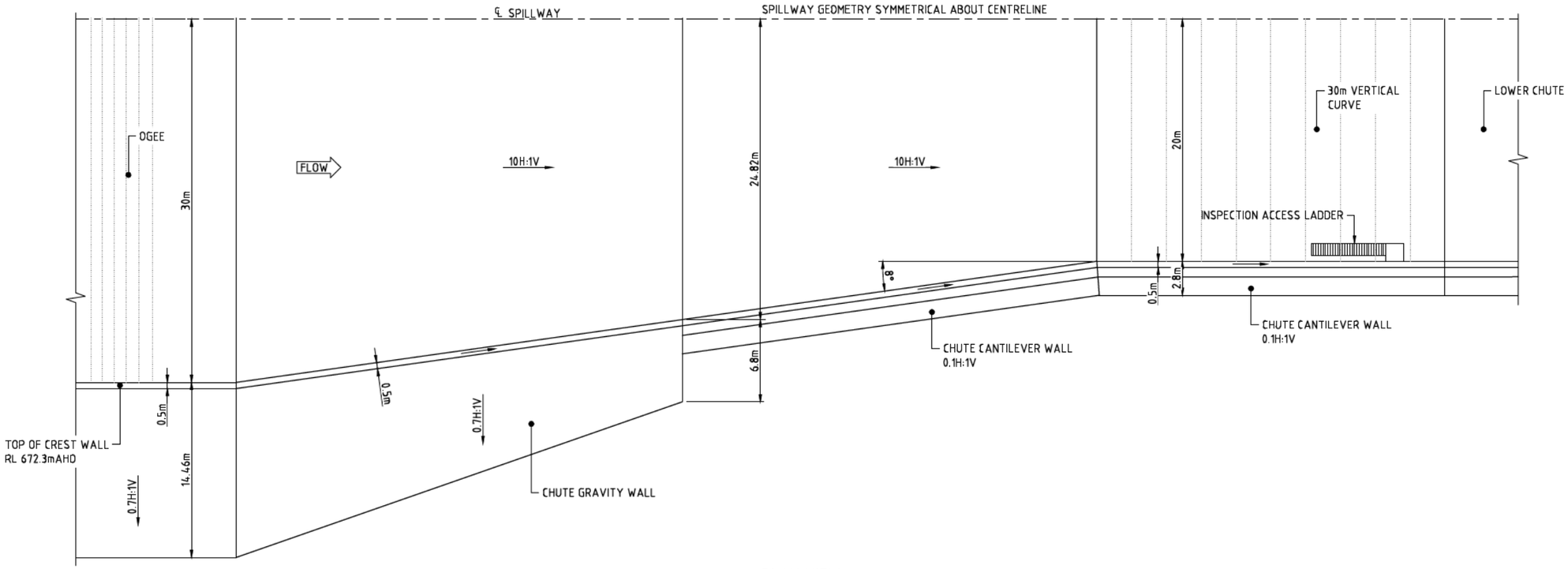
DUNGOWAN DAM - FINAL CONCEPT DESIGN

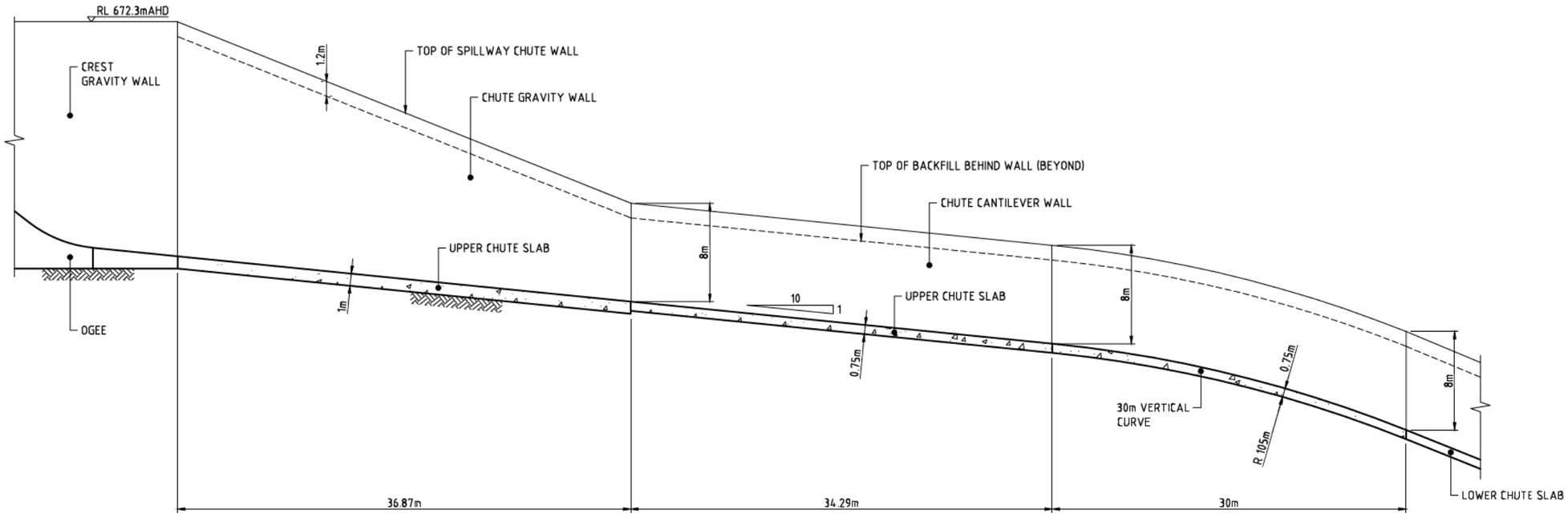
SPILLWAY
OGEE CREST
CONCRETE OUTLINE

REV. B, A
PLAN No. DUN-SPW-0541



PLAN VIEW

SCALE 1:200



SECTION ALONG SPILLWAY CENTRELINE

SCALE 1:200

SCALE 1:200 2 0 2 4 6 8 10

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:28:24 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020 C. WILTSHIRE
DRAWN	08.09.2020 J. PARISI
CHECKED	14.09.2020 C. WILTSHIRE

SCALES		SHEET
AS NOTED		A1
FILE	REPORT	JOB

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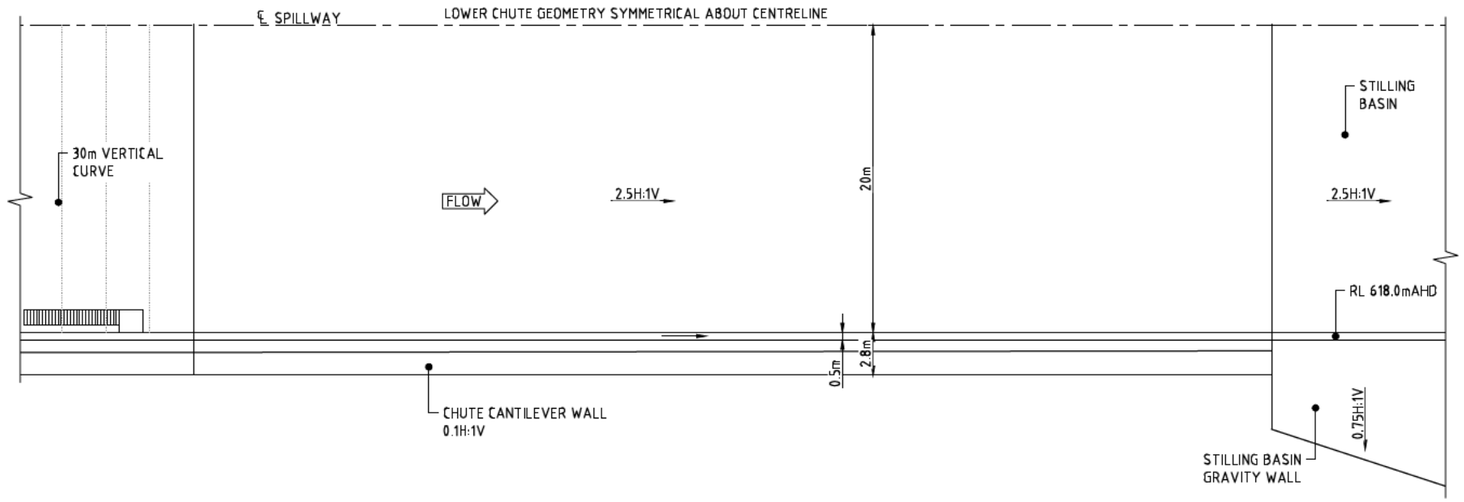
DUNGOWAN DAM - FINAL CONCEPT DESIGN

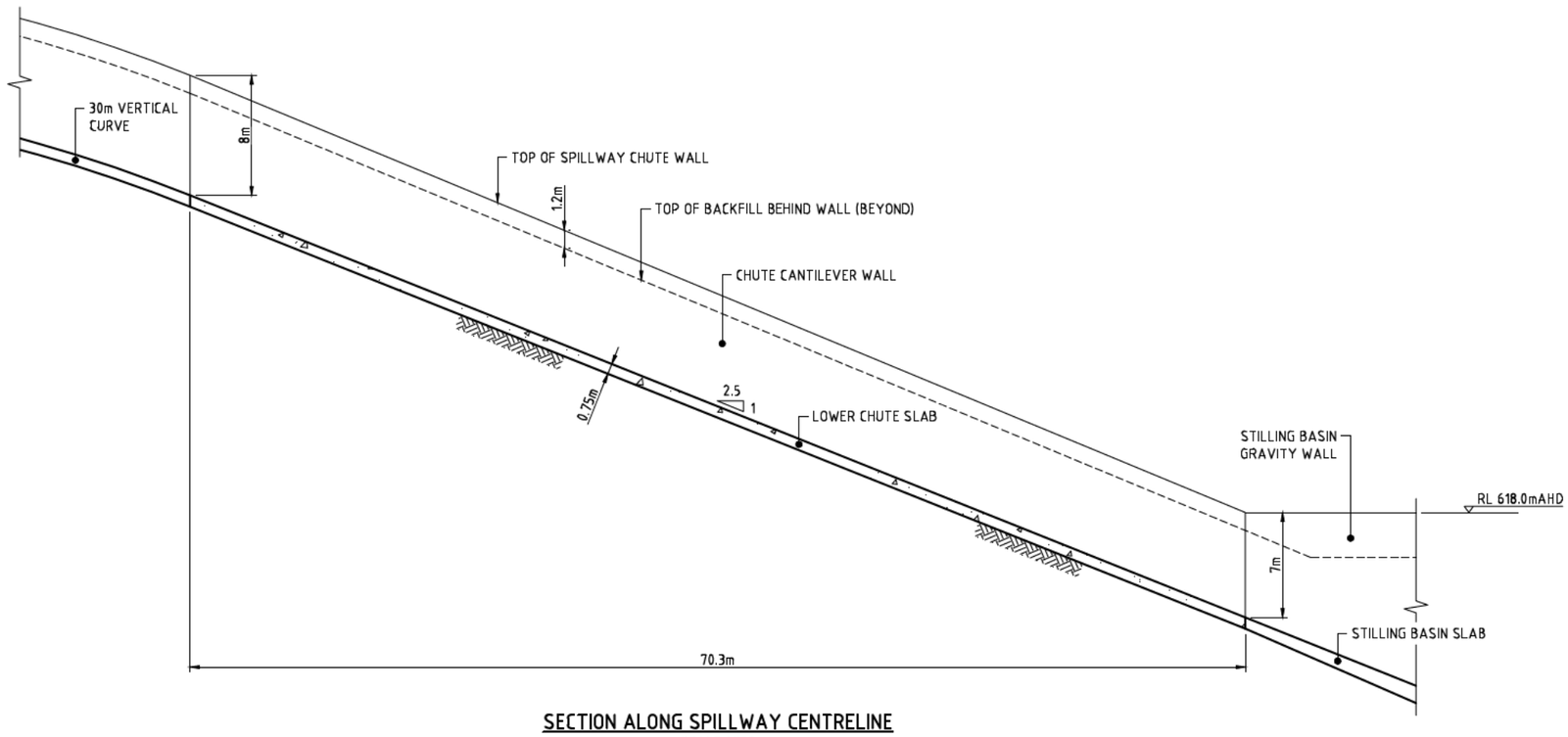
SPILLWAY
UPPER CHUTE
CONCRETE OUTLINE

REV.	PLAN No.
	DUN-SPW-0551
B	
A	



PLAN VIEW

SCALE 1:200



SECTION ALONG SPILLWAY CENTRELINE

SCALE 1:200

SCALE 1:200 2 0 2 4 6 8 10

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:28:45 PM

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SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020	SCALES	AS NOTED
C. WILTSHIRE		SHEET	A1
DRAWN	08.09.2020	FILE	REPORT
J. PARISI		JOB	
CHECKED	14.09.2020		
C. WILTSHIRE			

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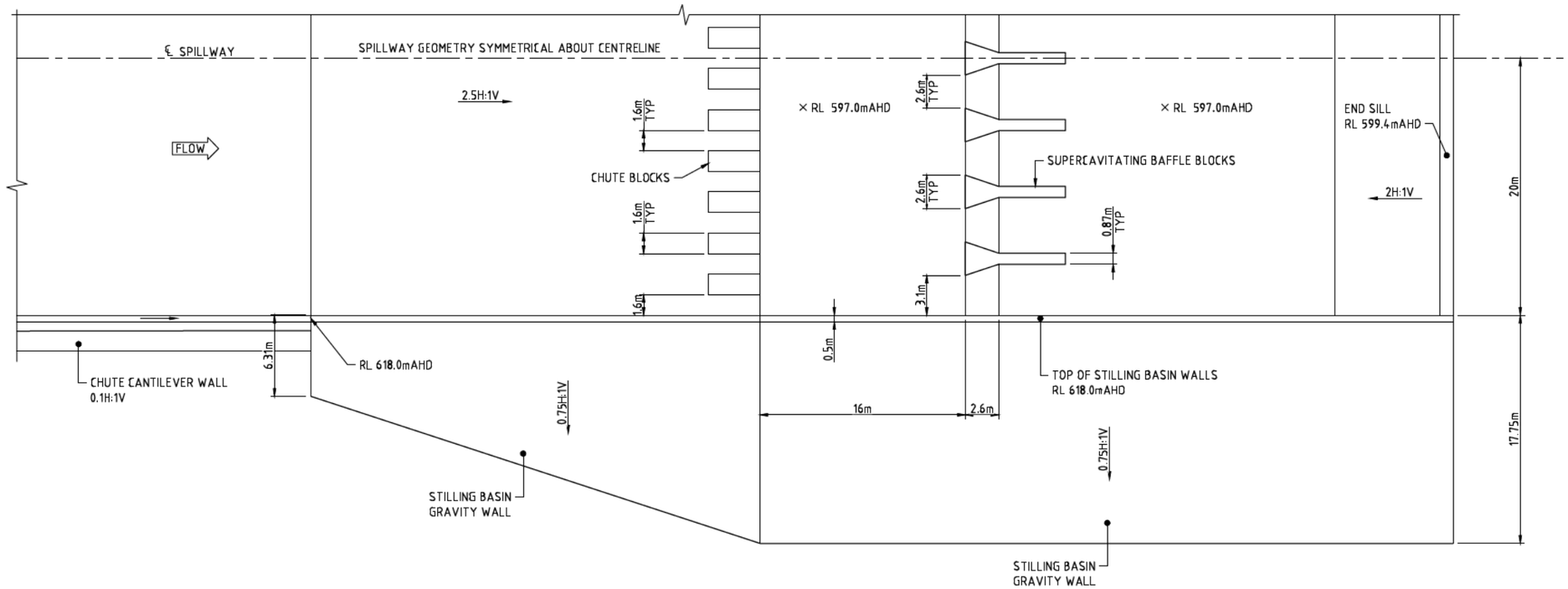
DUNGOWAN DAM - FINAL CONCEPT DESIGN

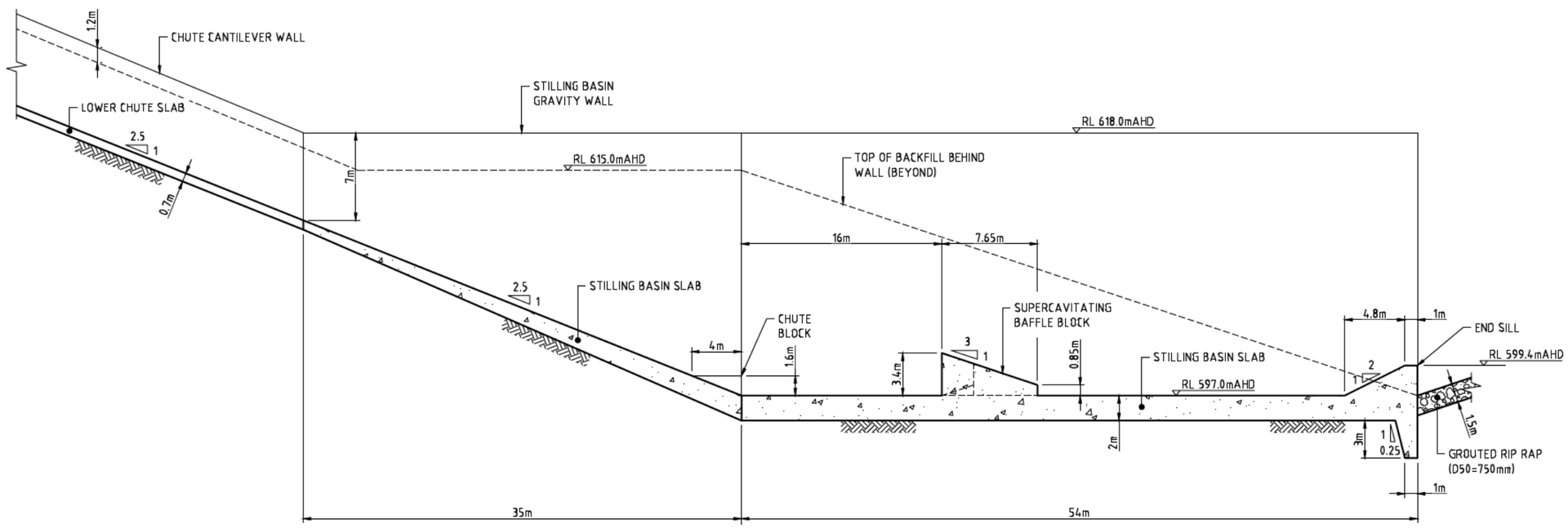
SPILLWAY
LOWER CHUTE
CONCRETE OUTLINE

REV.	PLAN No.
	DUN-SPW-0552
B	
A	



PLAN VIEW

SCALE 1:200



SECTION ALONG SPILLWAY CENTRELINE

SCALE 1:200

SCALE 1:200 2 0 2 4 6 8 10

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:29:07 PM

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TOWER 4, LEVEL 20, 727 COLLINS STREET DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	10.08.2020 C. WILTSHIRE
DRAWN	08.09.2020 J. PARISI
CHECKED	14.09.2020 C. WILTSHIRE
SCALES	AS NOTED
SHEET	A1
FILE	
REPORT	
JOB	

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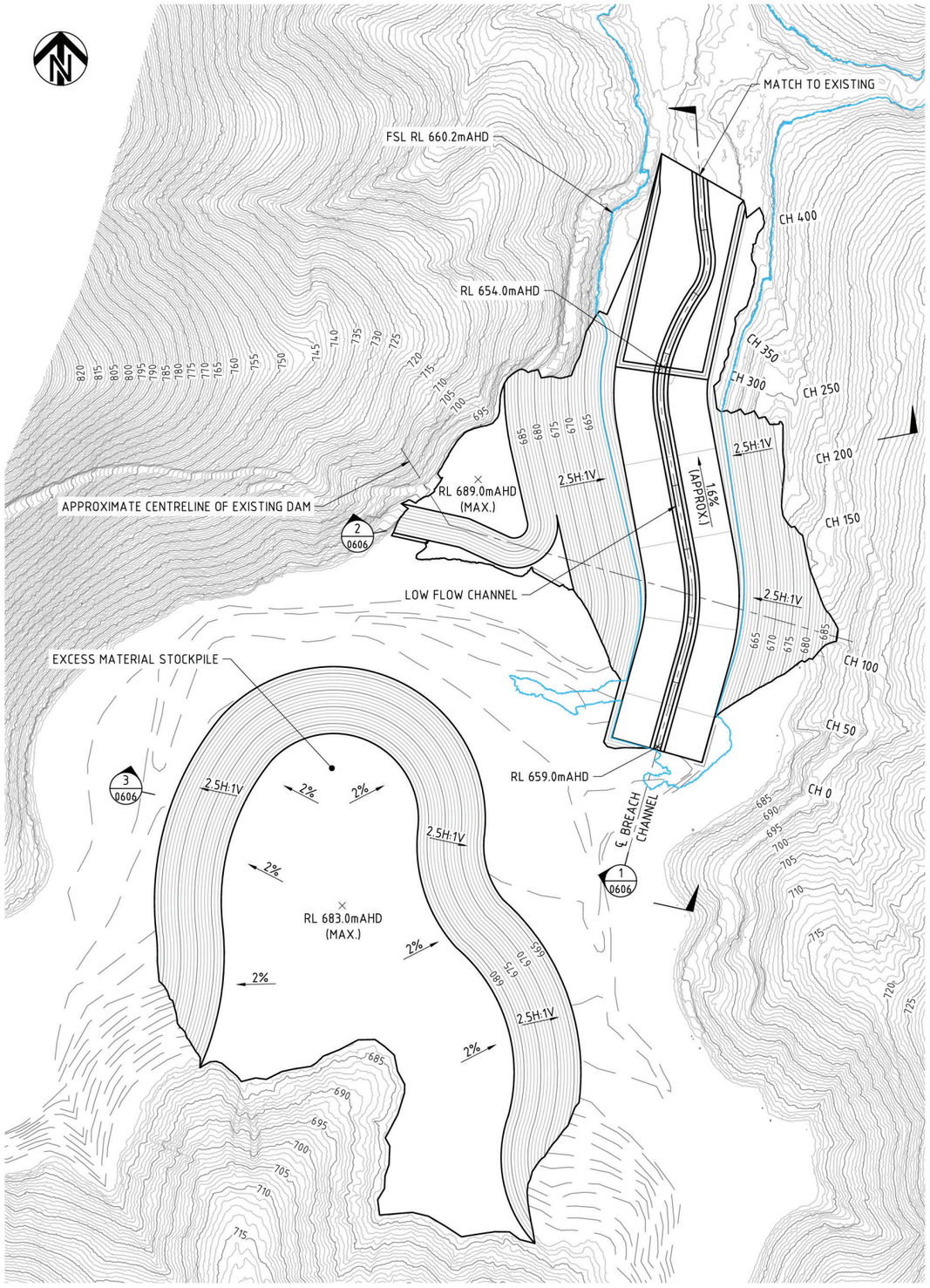
DUNGOWAN DAM - FINAL CONCEPT DESIGN

SPILLWAY
STILLING BASIN
CONCRETE OUTLINE

REV.	PLAN No.
	DUN-SPW-0561
B	
A	



PLAN VIEW

SCALE 1:2000

SCALE 1:2000 20 0 20 40 60 80 100

NOTES:

1. ALL AREAS OF DISTURBANCE ARE TO BE TOPSOILED AND SEEDED, WHICH IS TO BE APPLIED BY HYDROMULCHING.
2. ALL EXCAVATED MATERIAL FROM THE EXISTING DAM TO BE TRANSPORTED, PLACED AND COMPACTED IN THE EXCESS MATERIAL STOCKPILE LOCATED UPSTREAM OF EXISTING DAM.
3. THE CREST OF THE EXCESS MATERIAL STOCKPILE IS TO BE BELOW THE PREVIOUS FULL SUPPLY LEVEL OF THE EXISTING DAM (eg. < 683.0mAHD).

NOT FOR CONSTRUCTION

FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DETAILS
DRAWING STATUS:	UNDER REVIEW
PLOT DATE:	8/09/2022 4:35:21 PM

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TOWER 4, LEVEL 20, 727 COLLINS STREET DOCKLANDS VIC 3008
SMEC PROJECT No 30013137

REVISION	DETAILS OF AMENDMENT	CHK'D	DATE
B	REISSUED FOR 50% DETAILED DESIGN	08.09.22	I.L.
A	ISSUED FOR 50% DETAILED DESIGN	02.09.22	C.P.

DRAWN	08.09.2022	SCALES	SHEET SIZE
J. PARISI		AS NOTED	A1
DESIGNED	08.09.2022	FILE NO.	REPORT NO.
C. WILTSHIRE			
CHECKED	08.09.2022	.....	JOB/PROJECT NO.
I. LANE			

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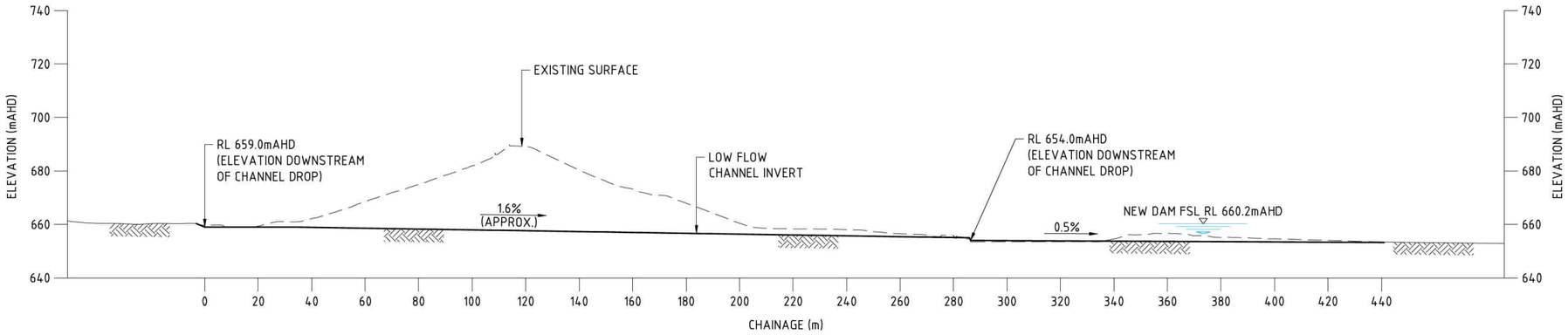
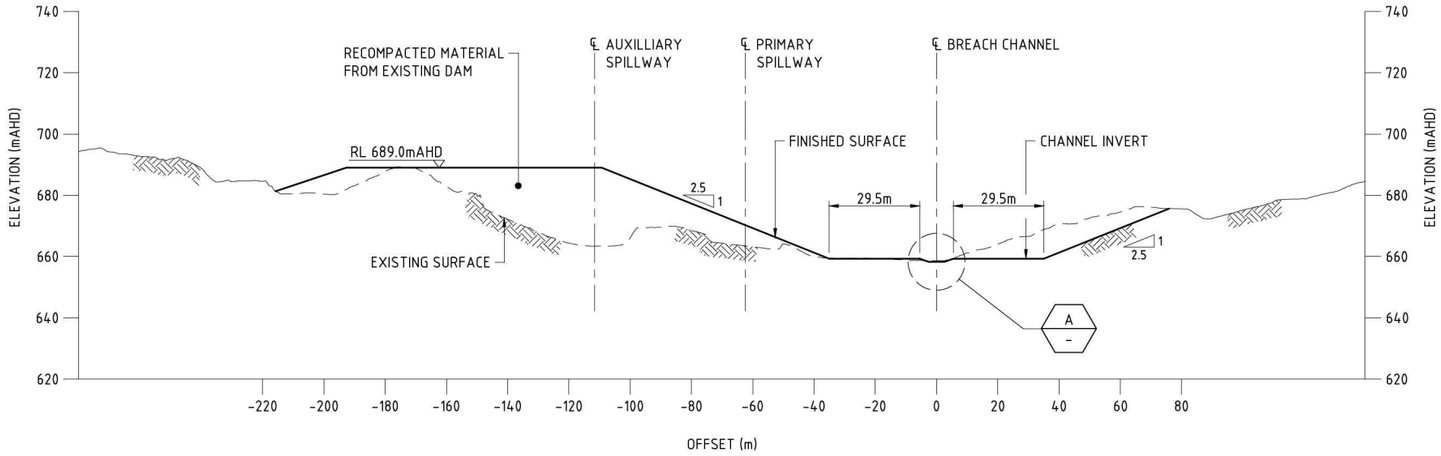
DUNGOWAN DAM - 50% DETAILED DESIGN

ANCILLARY WORKS
EXSITING DAM DECOMMISSIONING
DETAILED PLAN

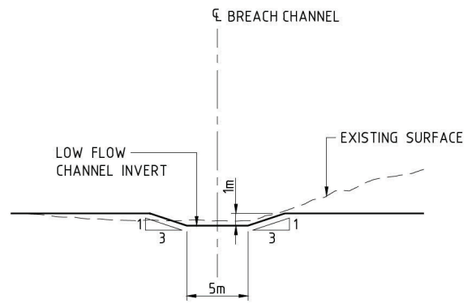
REV.	PLAN NO.
B	DUN-ANC-0601
A	



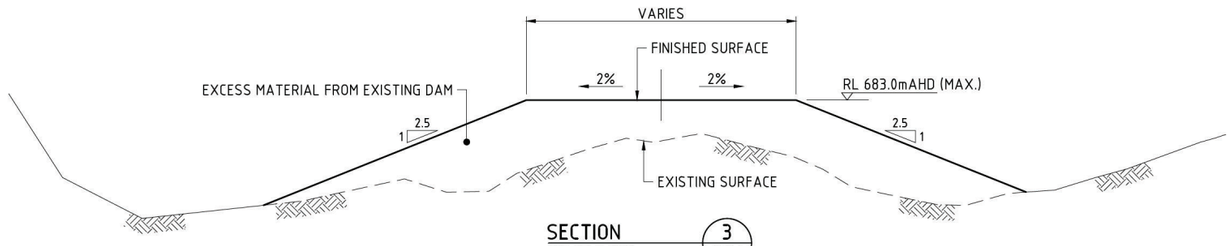
SECTION 1 / 0601
SCALE 1:1000



SECTION 2 / 0601
SCALE 1:1000



DETAIL A / -
SCALE 1:250



SECTION 3 / 0601
SCALE 1:1000

SCALE 1:250 — 2.5 0 5 10
SCALE 1:1000 — 10 0 10 20 30 40 50

NOT FOR CONSTRUCTION

FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DETAILS
DRAWING STATUS:	UNDER REVIEW
PLOT DATE:	31/08/2022 4:25:14 PM

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TOWER 4, LEVEL 20, 727 COLLINS STREET DOCKLANDS VIC 3008
SMEC PROJECT No 30013137

REVISION	DETAILS OF AMENDMENT	CHK'D	DATE
A	ISSUED FOR 50% DETAILED DESIGN	02.09.22	C.P.

DRAWN	02.09.2022 J. PARISI	SCALES	AS NOTED
DESIGNED	02.09.2022 C. WILTSHIRE	FILE NO.	
CHECKED	02.09.2022 C. PURSS		
SHEET SIZE	A1	REPORT NO.	
JOB/PROJECT NO.			

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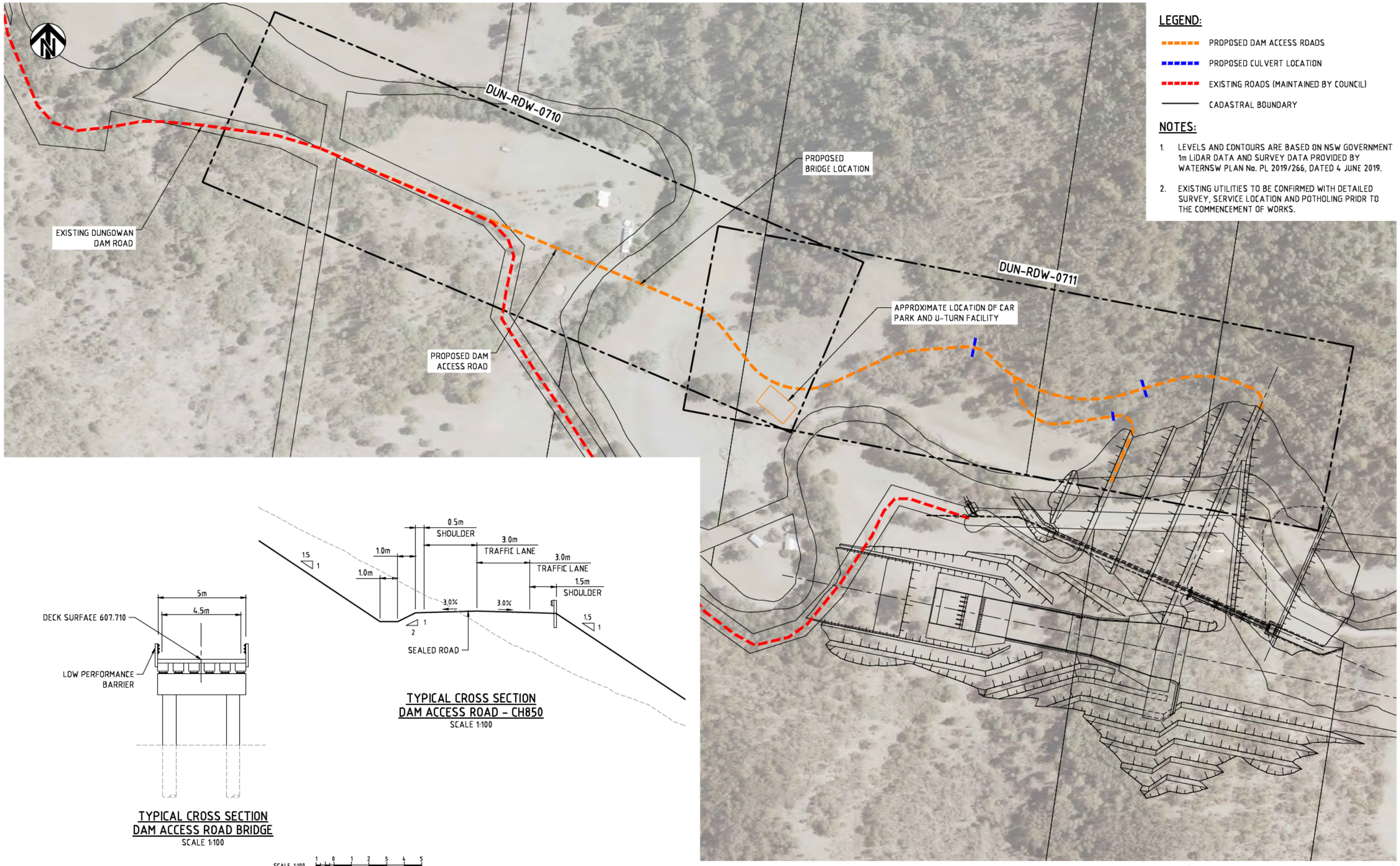
DUNGOWAN DAM - 50% DETAILED DESIGN

ANCILLARY WORKS
EXSITING DAM DECOMMISSIONING
EXCAVATION SECTIONS

REV.	PLAN NO.
A	DUN-ANC-0606



LEGEND:

- PROPOSED DAM ACCESS ROADS
- PROPOSED CULVERT LOCATION
- EXISTING ROADS (MAINTAINED BY COUNCIL)
- CADASTRAL BOUNDARY

NOTES:

1. LEVELS AND CONTOURS ARE BASED ON NSW GOVERNMENT 1m LiDAR DATA AND SURVEY DATA PROVIDED BY WATERNSW PLAN No. PL 2019/266, DATED 4 JUNE 2019.
2. EXISTING UTILITIES TO BE CONFIRMED WITH DETAILED SURVEY, SERVICE LOCATION AND POTHOLING PRIOR TO THE COMMENCEMENT OF WORKS.

TYPICAL CROSS SECTION
DAM ACCESS ROAD BRIDGE
SCALE 1:100

TYPICAL CROSS SECTION
DAM ACCESS ROAD - CH850
SCALE 1:100

PLAN
SCALE 1: 2000

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:24:37 PM

SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
TOWER 4, LEVEL 20, 727 COLLINS STREET
DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	02.09.2020 M. WATSON
DRAWN	04.09.2020 D. KELLY
CHECKED	11.09.2020 E. McKINGLEY

SCALES	SHEET
AS NOTED	A1
FILE / REPORT	JOB

WaterNSW

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DUNGOWAN DAM - FINAL CONCEPT DESIGN

ROADWORKS
GENERAL ARRANGEMENT

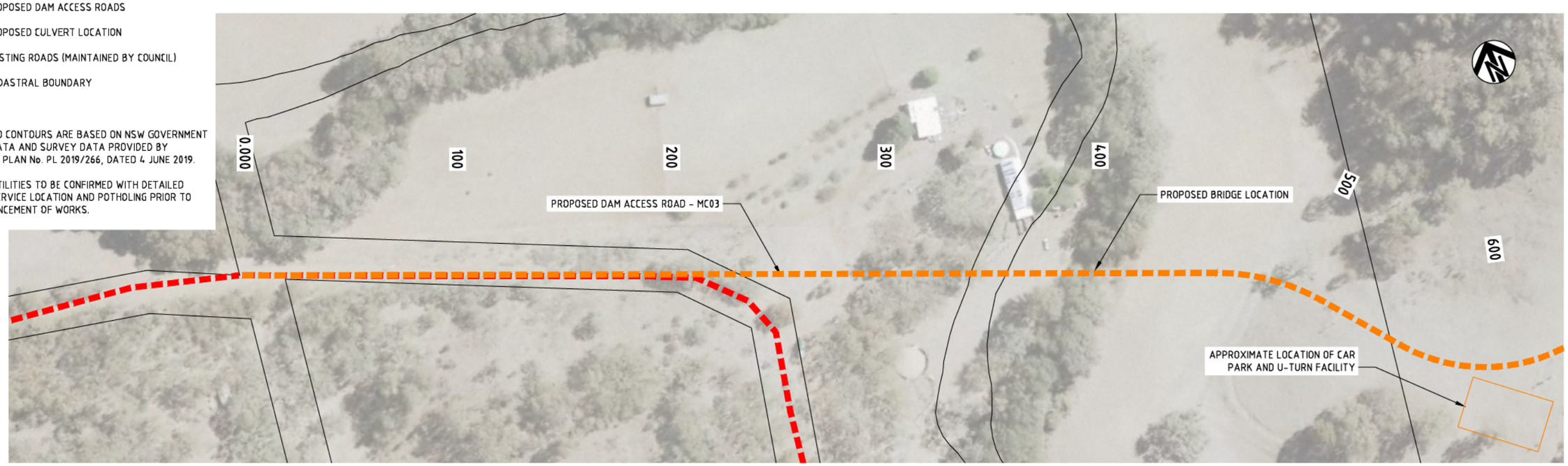
REV.	PLAN No.
B	DUN-RDW-0705
A	

LEGEND:

- PROPOSED DAM ACCESS ROADS
- PROPOSED CULVERT LOCATION
- EXISTING ROADS (MAINTAINED BY COUNCIL)
- CADASTRAL BOUNDARY

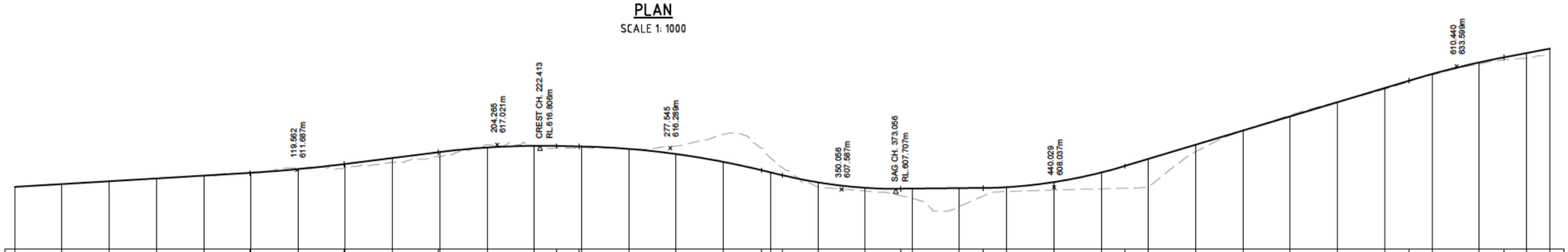
NOTES:

1. LEVELS AND CONTOURS ARE BASED ON NSW GOVERNMENT 1m LiDAR DATA AND SURVEY DATA PROVIDED BY WATERNSW PLAN No. PL 2019/266, DATED 4 JUNE 2019.
2. EXISTING UTILITIES TO BE CONFIRMED WITH DETAILED SURVEY, SERVICE LOCATION AND POTHOLING PRIOR TO THE COMMENCEMENT OF WORKS.



PLAN

SCALE 1: 1000



DATUM R.L. 595.000

VERTICAL ALIGNMENT: G=3.000% L=99.562; L=40.000 K=12.1; G=6.297% L=39.703; L=50.000 K=6.9; G=-1.000% L=9.538; L=77.500 K=7.0; G=-12.000% L=8.762; L=50.000 K=4.0; G=0.500% L=34.973; L=60.000 K=4.1; G=15.000% L=120.410; L=40.000 K=7.3; G=9.500% L=110.963

HORIZONTAL ALIGNMENT: L=454.282; L=51.676 R=100.000; L=42.134; L=108.057 R=-80.000

DESIGN LEVELS: 608.101, 608.701, 609.300, 609.900, 610.500, 611.101, 611.873, 612.974, 614.234, 615.493, 616.439, 616.801, 616.663, 616.145, 615.059, 613.406, 611.194, 609.073, 607.920, 607.737, 607.837, 608.057, 609.122, 611.154, 614.033, 617.033, 620.033, 623.033, 626.033, 629.033, 631.970, 634.432, 636.407, 637.357

EXISTING LEVELS: 611.217, 612.146, 612.246, 613.253, 614.516, 617.000, 616.700, 616.403, 616.135, 616.727, 619.200, 614.239, 608.111, 607.231, 605.727, 604.023, 607.119, 607.442, 607.702, 608.244, 615.592, 620.040, 623.307, 626.101, 628.783, 631.784, 634.098, 635.323, 636.426

CHAINAGE: 0.000, 20.000, 40.000, 60.000, 80.000, 100.000, 120.000, 140.000, 160.000, 180.000, 200.000, 220.000, 240.000, 260.000, 280.000, 300.000, 320.000, 340.000, 360.000, 380.000, 400.000, 420.000, 440.000, 460.000, 480.000, 500.000, 520.000, 540.000, 560.000, 580.000, 600.000, 620.000, 640.000, 650.000

CROSSFALL: LHS & RHS -3%

0.000 — 650.000

LONGITUDINAL SECTION ALONG CONTROL MC03

H 1:1000 V 1:500

SCALE 1:1000 10 0 10 20 30 40 50

NOT FOR CONSTRUCTION

SYSTEM:	
FACILITY NAME:	DUNGOWAN DAM
LOCATION CODE:	
DISCIPLINE:	Civil
DRAWING TYPE:	Construction Details
DRAWING STATUS:	Preliminary
LAST AMENDED:	
PLOT DATE:	19/10/2020 7:25:17 PM

SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
TOWER 4, LEVEL 20, 727 COLLINS STREET DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED	02.09.2020 M. WATSON
DRAWN	04.09.2020 D. KELLY
CHECKED	11.09.2020 E. McKINGLEY

SCALES: AS NOTED		SHEET: A1
FILE	REPORT	JOB

WaterNSW

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DUNGOWAN DAM - FINAL CONCEPT DESIGN

ROADWORKS
DAM ACCESS ROAD
SHEET 1

REV.	PLAN No.
	DUN-RDW-0710
B	
A	

LEGEND:

- PROPOSED DAM ACCESS ROADS
- PROPOSED CULVERT LOCATION
- EXISTING ROADS (MAINTAINED BY COUNCIL)
- CADASTRAL BOUNDARY

NOTES:

1. LEVELS AND CONTOURS ARE BASED ON NSW GOVERNMENT 1m LiDAR DATA AND SURVEY DATA PROVIDED BY WATERNSW PLAN No. PL 2019/266, DATED 4 JUNE 2019.
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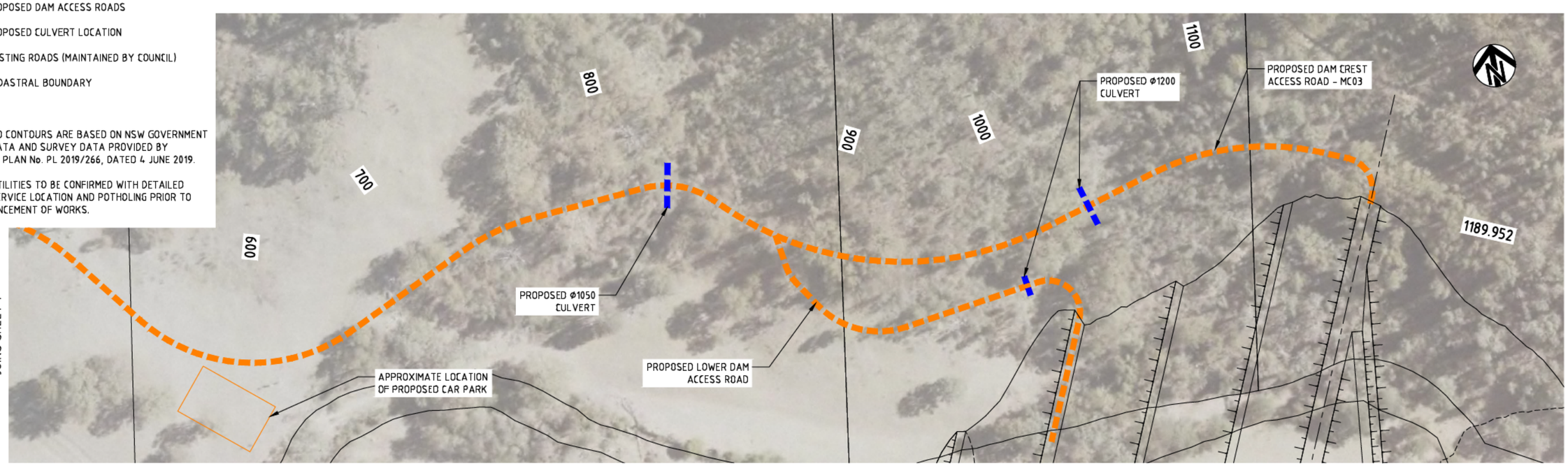
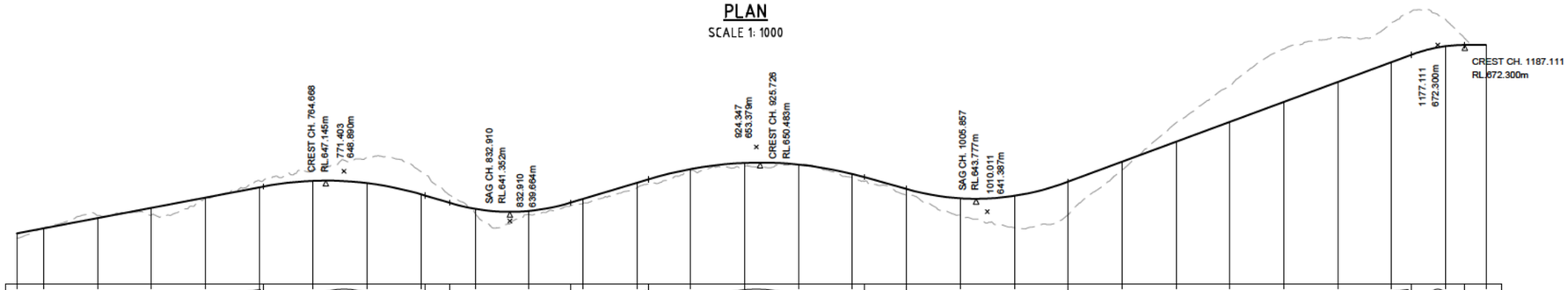


PLAN

SCALE 1: 1000



DATUM R.L. 628.000

VERTICAL ALIGNMENT

G=9.500% L=110.963 | L=60.000 K=2.4 | G=-15.000% L=9.001 | L=45.000 K=1.5 | G=15.000% L=28.937 | L=80.000 K=2.8 | G=-14.000% L=15.664 | L=60.000 K=1.8 | G=18.500% L=127.100 | L=20.000 K=1.1 | G=9.000% L=7.841

HORIZONTAL ALIGNMENT

L=108.057 R=-80.000 | L=65.223 | L=36.005 R=100.000 | L=54.372 | L=34.292 R=40.000 | L=6.114 | L=159.732 R=-150.000 | L=55.815 | L=82.312 R=120.000 | L=12.758 | L=23.663 R=15.000 | L=3.519

CHAINAGE	DESIGN LEVELS	EXISTING LEVELS
650.000	637.357	636.426
660.000	638.307	638.381
680.000	640.207	640.638
700.000	642.107	640.735
720.000	644.007	643.971
740.000	645.907	647.104
760.000	647.101	649.219
780.000	646.665	651.417
800.000	644.597	648.787
820.000	641.907	641.073
840.000	641.519	640.873
860.000	643.727	642.876
880.000	646.727	645.779
900.000	649.283	649.000
920.000	650.424	649.685
940.000	650.114	650.077
960.000	648.354	647.709
980.000	645.588	644.429
1000.000	643.870	640.572
1020.000	644.319	638.393
1040.000	646.935	640.841
1060.000	650.635	649.095
1080.000	654.335	657.866
1100.000	658.035	664.712
1120.000	661.735	671.524
1140.000	665.435	673.595
1160.000	669.135	676.415
1180.000	672.066	677.010
1194.952	672.300	

CROSSFALL

LONGITUDINAL SECTION ALONG CONTROL MC03

H 1:1000, V 1:500

SCALE 1:1000 10 0 10 20 30 40 50

NOT FOR CONSTRUCTION

SYSTEM:
FACILITY NAME: DUNGOWAN DAM
LOCATION CODE:
DISCIPLINE: Civil
DRAWING TYPE: Construction Details
DRAWING STATUS: Preliminary
LAST AMENDED:
PLOT DATE: 19/10/2020 7:25:58 PM

SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
TOWER 4, LEVEL 20, 727 COLLINS STREET DOCKLANDS VIC 3008
SMEC PROJECT No 30013407

REVISION	DETAILS OF AMENDMENT	APP D	DATE
B	ISSUED FOR FINAL CONCEPT DESIGN	J.R.	19.10.20
A	ISSUED FOR CONCEPT DESIGN	J.R.	14.09.20

DESIGNED 02.09.2020 M. WATSON
DRAWN 04.09.2020 D. KELLY
CHECKED 11.09.2020 E. McKINGLEY

SCALES: AS NOTED
SHEET: A1
FILE | REPORT | JOB

WaterNSW

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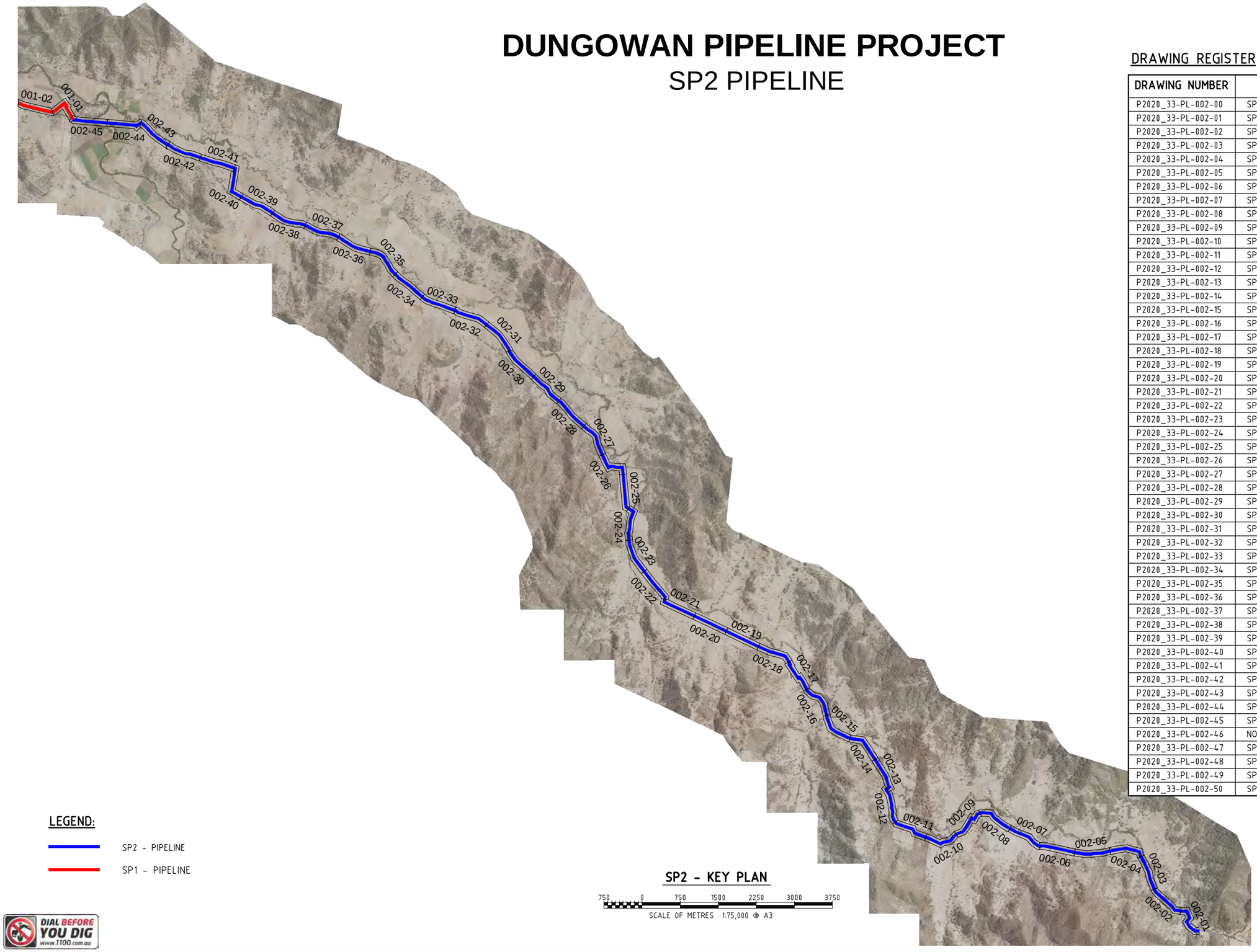
DUNGOWAN DAM - FINAL CONCEPT DESIGN

ROADWORKS
DAM ACCESS ROAD
SHEET 2

REV. B, A
PLAN No. DUN-RDW-0711

DUNGOWAN PIPELINE PROJECT

SP2 PIPELINE



DRAWING REGISTER

DRAWING NUMBER	DESCRIPTION
P2020_33-PL-002-00	SP2 PIPELINE DRAWING REGISTER
P2020_33-PL-002-01	SP2 PLAN & LONGITUDINAL SECTION - CH0 to CH700
P2020_33-PL-002-02	SP2 PLAN & LONGITUDINAL SECTION - CH700 to CH1400
P2020_33-PL-002-03	SP2 PLAN & LONGITUDINAL SECTION - CH1400 to CH2100
P2020_33-PL-002-04	SP2 PLAN & LONGITUDINAL SECTION - CH21000 to CH2800
P2020_33-PL-002-05	SP2 PLAN & LONGITUDINAL SECTION - CH2800 to CH3500
P2020_33-PL-002-06	SP2 PLAN & LONGITUDINAL SECTION - CH3500 to CH4200
P2020_33-PL-002-07	SP2 PLAN & LONGITUDINAL SECTION - CH4180 to CH4900
P2020_33-PL-002-08	SP2 PLAN & LONGITUDINAL SECTION - CH4900 to CH5600
P2020_33-PL-002-09	SP2 PLAN & LONGITUDINAL SECTION - CH5600 to CH6300
P2020_33-PL-002-10	SP2 PLAN & LONGITUDINAL SECTION - CH6300 to CH7000
P2020_33-PL-002-11	SP2 PLAN & LONGITUDINAL SECTION - CH7000 to CH7700
P2020_33-PL-002-12	SP2 PLAN & LONGITUDINAL SECTION - CH7700 to CH8400
P2020_33-PL-002-13	SP2 PLAN & LONGITUDINAL SECTION - CH8400 to CH9100
P2020_33-PL-002-14	SP2 PLAN & LONGITUDINAL SECTION - CH9100 to CH9800
P2020_33-PL-002-15	SP2 PLAN & LONGITUDINAL SECTION - CH9800 to CH10500
P2020_33-PL-002-16	SP2 PLAN & LONGITUDINAL SECTION - CH10500 to CH11200
P2020_33-PL-002-17	SP2 PLAN & LONGITUDINAL SECTION - CH11200 to CH11900
P2020_33-PL-002-18	SP2 PLAN & LONGITUDINAL SECTION - CH11900 to CH12600
P2020_33-PL-002-19	SP2 PLAN & LONGITUDINAL SECTION - CH12600 to CH13300
P2020_33-PL-002-20	SP2 PLAN & LONGITUDINAL SECTION - CH13300 to CH14000
P2020_33-PL-002-21	SP2 PLAN & LONGITUDINAL SECTION - CH14000 to CH14700
P2020_33-PL-002-22	SP2 PLAN & LONGITUDINAL SECTION - CH14700 to CH15400
P2020_33-PL-002-23	SP2 PLAN & LONGITUDINAL SECTION - CH15400 to CH16100
P2020_33-PL-002-24	SP2 PLAN & LONGITUDINAL SECTION - CH16100 to CH16800
P2020_33-PL-002-25	SP2 PLAN & LONGITUDINAL SECTION - CH16800 to CH17500
P2020_33-PL-002-26	SP2 PLAN & LONGITUDINAL SECTION - CH17500 to CH18200
P2020_33-PL-002-27	SP2 PLAN & LONGITUDINAL SECTION - CH18200 to CH18900
P2020_33-PL-002-28	SP2 PLAN & LONGITUDINAL SECTION - CH18900 to CH19600
P2020_33-PL-002-29	SP2 PLAN & LONGITUDINAL SECTION - CH19600 to CH20300
P2020_33-PL-002-30	SP2 PLAN & LONGITUDINAL SECTION - CH20300 to CH21000
P2020_33-PL-002-31	SP2 PLAN & LONGITUDINAL SECTION - CH21000 to CH21700
P2020_33-PL-002-32	SP2 PLAN & LONGITUDINAL SECTION - CH21700 to CH22400
P2020_33-PL-002-33	SP2 PLAN & LONGITUDINAL SECTION - CH22400 to CH23100
P2020_33-PL-002-34	SP2 PLAN & LONGITUDINAL SECTION - CH23100 to CH23800
P2020_33-PL-002-35	SP2 PLAN & LONGITUDINAL SECTION - CH23800 to CH24500
P2020_33-PL-002-36	SP2 PLAN & LONGITUDINAL SECTION - CH24500 to CH25200
P2020_33-PL-002-37	SP2 PLAN & LONGITUDINAL SECTION - CH25200 to CH25900
P2020_33-PL-002-38	SP2 PLAN & LONGITUDINAL SECTION - CH25900 to CH26600
P2020_33-PL-002-39	SP2 PLAN & LONGITUDINAL SECTION - CH26600 to CH27300
P2020_33-PL-002-40	SP2 PLAN & LONGITUDINAL SECTION - CH27300 to CH28000
P2020_33-PL-002-41	SP2 PLAN & LONGITUDINAL SECTION - CH28000 to CH28700
P2020_33-PL-002-42	SP2 PLAN & LONGITUDINAL SECTION - CH28700 to CH29400
P2020_33-PL-002-43	SP2 PLAN & LONGITUDINAL SECTION - CH29400 to CH30100
P2020_33-PL-002-44	SP2 PLAN & LONGITUDINAL SECTION - CH30100 to CH30800
P2020_33-PL-002-45	SP2 PLAN & LONGITUDINAL SECTION - CH30800 to CH31481
P2020_33-PL-002-46	NOT USED
P2020_33-PL-002-47	SP2 HYDRAULIC GRADE LINES - SHEET 1 OF 2
P2020_33-PL-002-48	SP2 HYDRAULIC GRADE LINES - SHEET 2 OF 2
P2020_33-PL-002-49	SP2 PONDING DIAGRAM - SHEET 1 OF 2
P2020_33-PL-002-50	SP2 PONDING DIAGRAM - SHEET 2 OF 2

LEGEND:

SP2 - PIPELINE

SP1 - PIPELINE

SP2 - KEY PLAN

750 0 750 1500 2250 3000 3750

SCALE OF METRES 1:75,000 @ A3

DIAL BEFORE YOU DIG www.1100.com.au

ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	GENERAL ARR
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	09/06/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES	SCALES N.T.S.		SHEET A3
DRAWN T. ALVARADO	FILE -	REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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DUNGOWAN PIPELINE PROJECT

SP2 PIPELINE DRAWING REGISTER

REV.	PLAN No.
1	P2020_33-PL-002-00 SHEET 1 OF 1

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

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DIAL 1100 BEFORE YOU DIG

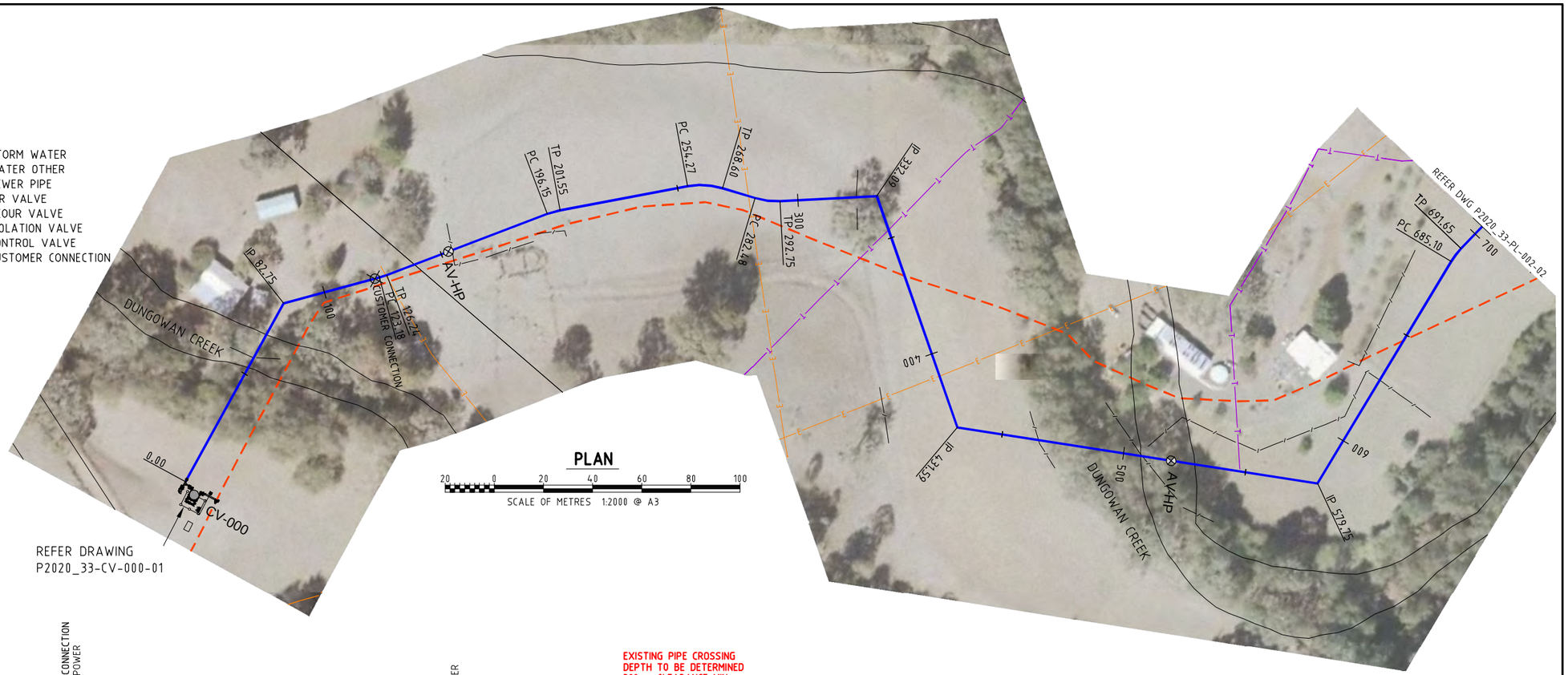
WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS 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.

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY

- THEY SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION OF PIPELINE. CONTRACTOR TO ENSURE MINIMUM DISTANCE OF 2.5 METRES BETWEEN TELSTRA CABLE AND PIPELINE. SHOULD PIPELINE OFFSET BE CHANGED TO ACCOMMODATE MINIMUM DISTANCE REQUIREMENT CONTRACTOR TO NOTIFY AUTHORITY PRIOR TO CONSTRUCTION.

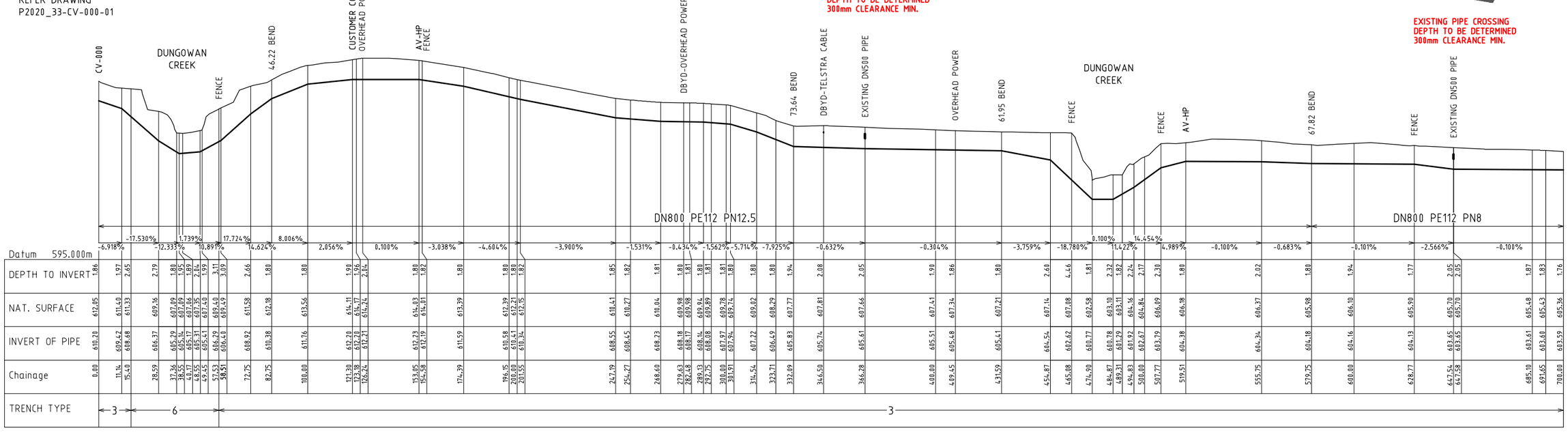


REFER DRAWING
P2020_33-CV-000-01

PLAN

SCALE OF METRES 1:2000 @ A3

REFER DRAWING
P2020_33-CV-000-01



LONGITUDINAL SECTION

VERTICAL SCALE OF METRES 1:400 @ A3

HORIZONTAL SCALE OF METRES 1:2000 @ A3

DIAL BEFORE YOU DIG www.1100.com.au

ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE: -	REPORT: -	JOB: P2020_33
VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

WaterNSW

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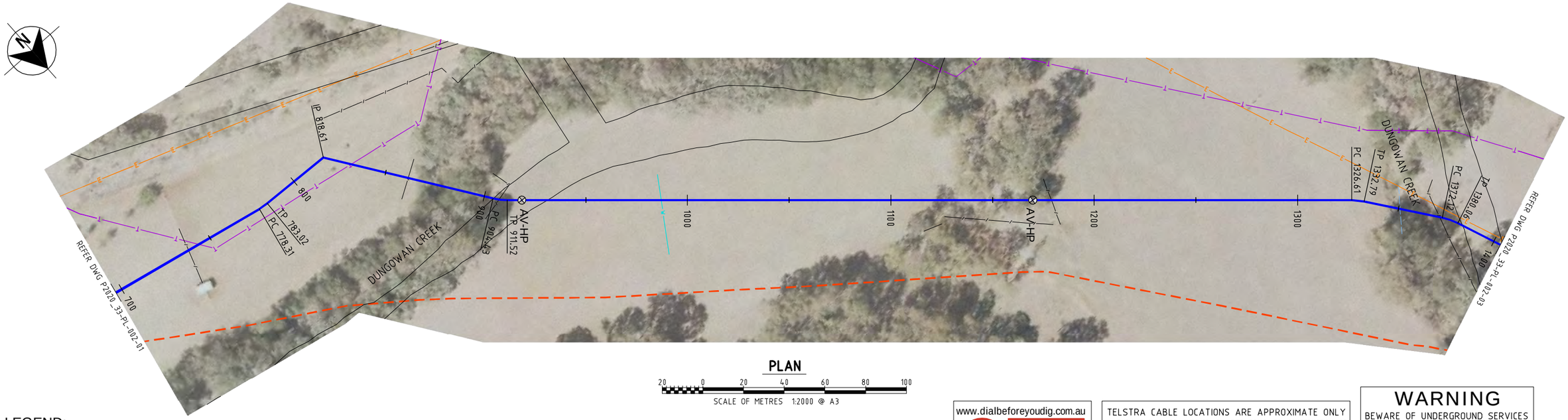
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH0 to CH700

REV. 1

PLAN No. P2020_33-PL-002-01



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

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DIAL 1100 BEFORE YOU DIG

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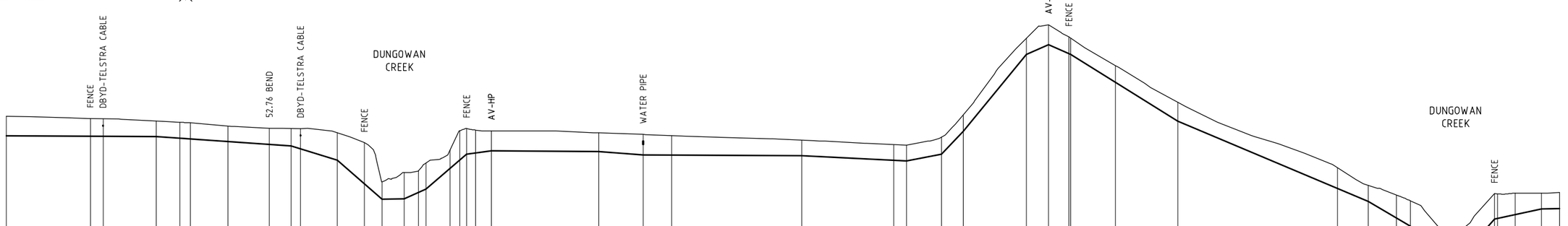
LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION



Datum 590.000m

Chainage	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE
700.00	1.76	605.36	603.59
737.94	1.60	605.16	603.56
743.68	1.58	605.13	603.55
767.56	1.40	604.93	603.53
778.31	1.44	604.82	603.38
783.02	1.45	604.76	603.31
800.00	1.40	604.67	603.07
818.61	1.48	604.29	602.81
828.46	1.58	604.25	602.67
832.67	1.84	604.25	602.41
849.29	2.48	603.86	601.38
861.43	3.72	602.98	599.26
869.33	1.55	599.43	597.88
879.29	2.38	600.27	597.89
885.81	1.94	600.43	598.47
889.26	2.39	601.16	598.77
900.00	1.65	602.29	600.65
904.43	2.64	604.06	601.42
907.75	2.86	604.25	601.39
911.52	2.06	604.11	602.05
918.62	1.89	604.02	602.22
947.07	1.70	603.87	602.17
987.10	1.85	603.72	601.87
1000.00	1.75	603.61	601.86
1058.55	1.40	603.20	601.80
1100.00	1.40	602.79	601.39
1105.81	1.40	602.74	601.34
1121.58	1.55	603.48	601.93
1131.36	1.51	605.50	604.00
1159.84	1.48	612.41	610.94
1169.80	1.80	613.61	611.81
1178.97	1.52	612.53	611.01
1179.76	1.47	612.41	610.94
1200.00	1.51	609.94	608.42
1228.08	1.70	606.62	604.93
1300.00	1.85	600.70	598.85
1313.81	1.45	599.13	597.68
1326.61	2.08	598.24	596.16
1332.79	2.30	597.73	595.43
1346.25	2.30	595.04	592.74
1348.35	1.55	594.30	592.75
1350.84	1.73	594.48	592.75
1356.25	2.37	595.13	592.75
1370.74	2.29	598.38	596.09
1372.12	2.21	598.35	596.14
1380.36	1.94	598.42	596.48
1391.98	1.42	598.41	596.99
1400.00	1.46	598.49	597.03

TRENCH TYPE: 3 | 6 | 3 | 6 | 3

LONGITUDINAL SECTION

4 0 4 8 12 16 20
VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100
HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES	SCALES: AS SHOWN		SHEET: A3
DRAWN: T. ALVARADO	FILE: -	REPORT: -	JOB: P2020_33
CHECKED: S. McKENZIE	VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

WaterNSW

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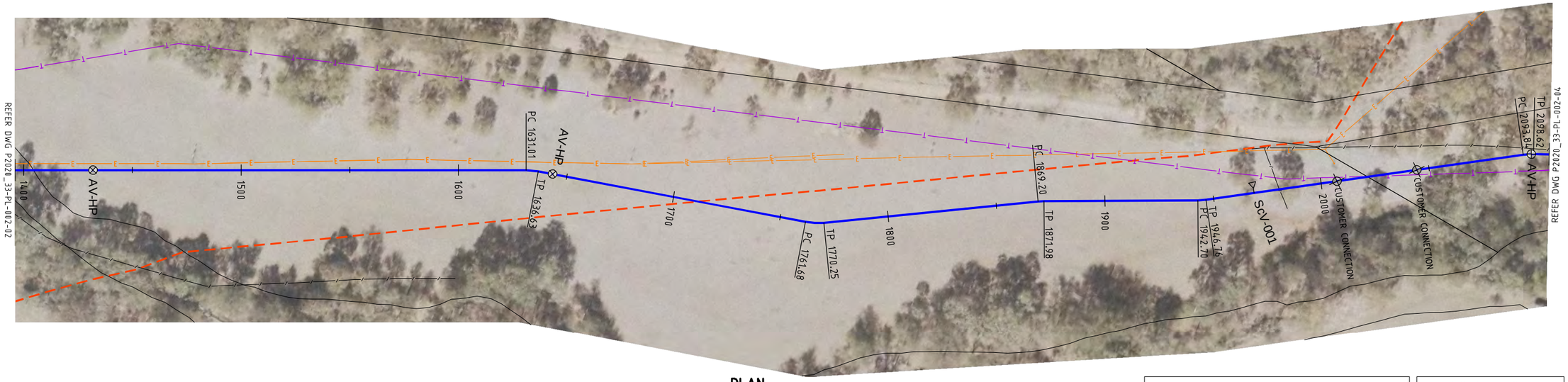
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH700 to CH1400

REV.	PLAN No.
1	P2020_33-PL-002-02



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY

- THEY SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION OF PIPELINE. CONTRACTOR TO ENSURE MINIMUM DISTANCE OF 2.5 METRES BETWEEN TELSTRA CABLE AND PIPELINE. SHOULD PIPELINE OFFSET BE CHANGED TO ACCOMMODATE MINIMUM DISTANCE REQUIREMENT CONTRACTOR TO NOTIFY AUTHORITY PRIOR TO CONSTRUCTION.

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WARNING

BEWARE OF UNDERGROUND SERVICES

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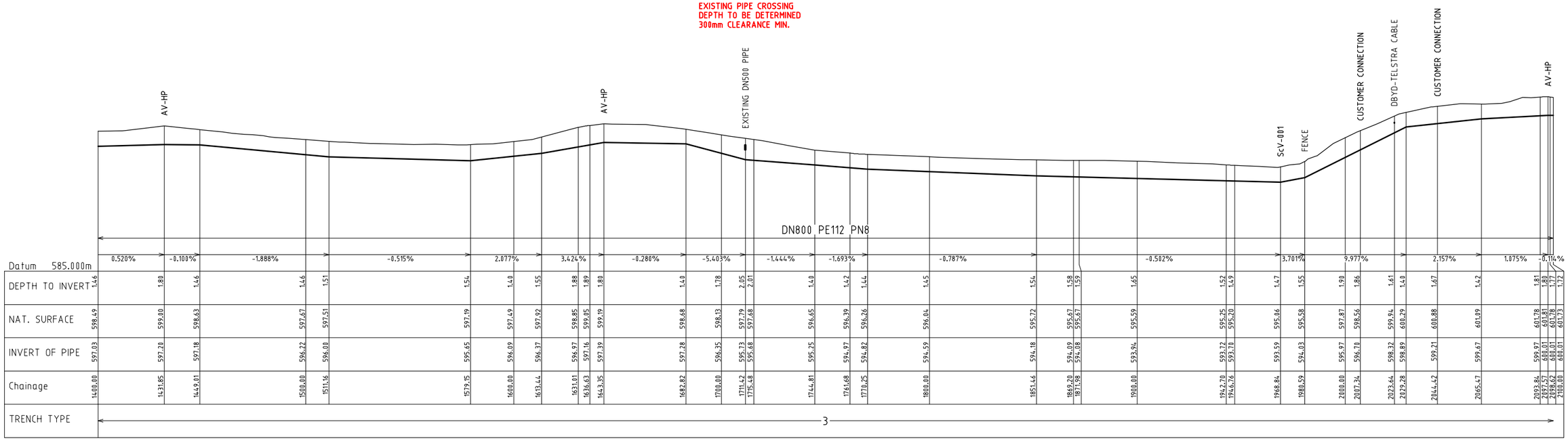
LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION



LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES	SCALES AS SHOWN		SHEET A3
DRAWN T. ALVARADO	FILE -	REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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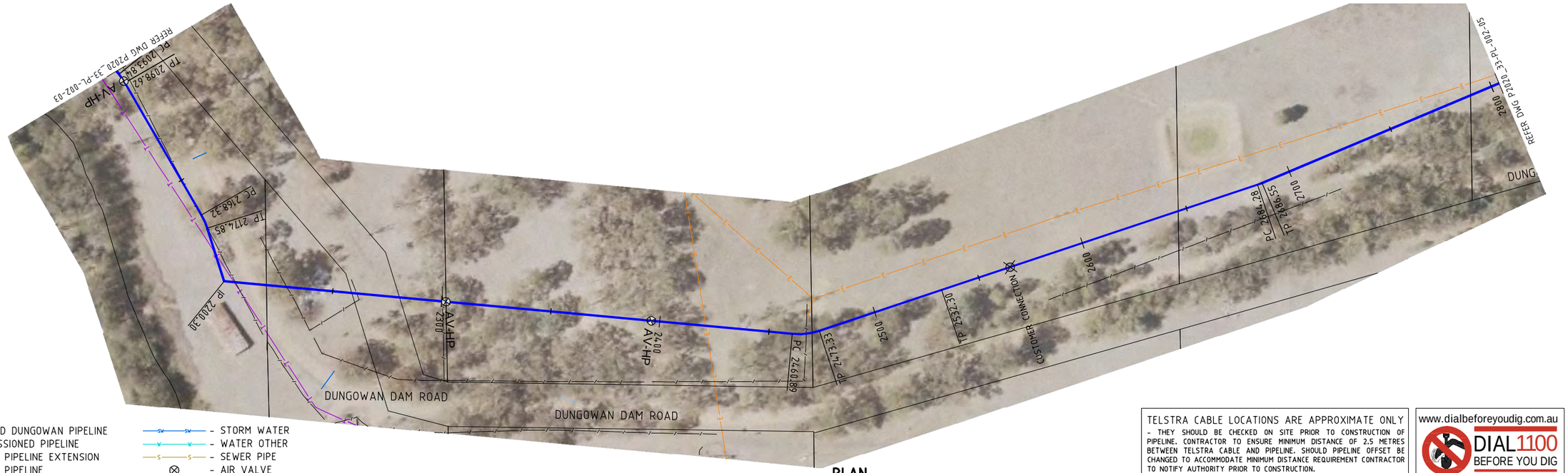
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH1400 to CH2100

REV. 1

PLAN No. P2020_33-PL-002-03



LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY

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WARNING

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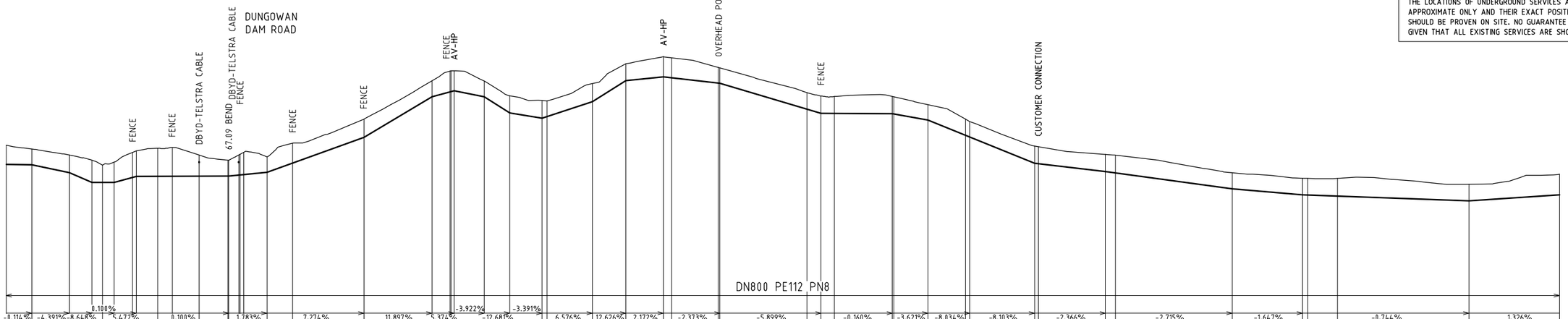

Datum 585.000m

Chainage	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE
2100.00	1.72	601.73	600.01
2111.59	1.40	601.40	600.00
2128.50	1.62	600.87	599.25
2138.59	2.02	600.40	598.38
2143.43	1.57	599.95	598.39
2148.59	1.83	600.22	598.39
2156.95	2.25	601.10	598.85
2158.60	2.29	601.23	598.94
2168.32	2.53	601.48	598.95
2174.85	2.58	601.53	598.96
2186.91	1.89	600.86	598.97
2200.00	1.41	600.39	598.98
2200.32	1.41	600.38	598.98
2200.82	1.80	600.86	599.06
2205.43	1.85	600.93	599.07
2207.95	1.99	601.09	599.10
2217.58	1.40	600.69	599.29
2229.95	1.80	601.92	600.12
2261.23	1.63	604.09	602.46
2291.94	1.45	607.57	606.12
2300.00	1.89	608.44	606.55
2300.46	1.89	608.47	606.58
2301.93	1.80	608.46	606.66
2315.40	1.40	607.53	606.13
2326.97	1.55	606.21	604.66
2334.53	1.60	605.77	604.17
2343.69	1.42	605.73	604.31
2364.23	1.64	607.30	605.66
2379.27	1.55	609.11	607.56
2396.14	1.80	609.72	607.92
2400.00	1.80	609.63	607.83
2420.88	1.43	608.77	607.34
2421.69	1.40	608.72	607.32
2460.89	1.48	606.48	605.01
2467.23	1.56	606.59	604.63
2473.33	1.51	606.13	604.62
2499.41	1.55	606.13	604.58
2500.00	1.56	606.10	604.56
2515.40	1.40	605.40	604.00
2532.30	1.46	604.11	602.64
2534.30	1.40	603.88	602.48
2563.52	1.55	601.67	600.12
2565.18	1.53	601.61	600.08
2595.40	1.56	600.92	599.36
2600.00	1.61	600.84	599.24
2652.61	1.47	599.27	597.81
2684.28	1.49	598.77	597.29
2686.55	1.49	598.76	597.27
2700.00	1.59	598.76	597.17
2759.25	1.51	598.23	596.73
2800.00	1.86	599.12	597.27

TRENCH TYPE: 3 | 2 | 3

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE: -	REPORT: -	JOB: P2020_33
VERIFIED: A. SINN	APPROVED: P. SEMIANIW	APPROVED: -
POSITION	POSITION	POSITION

WaterNSW

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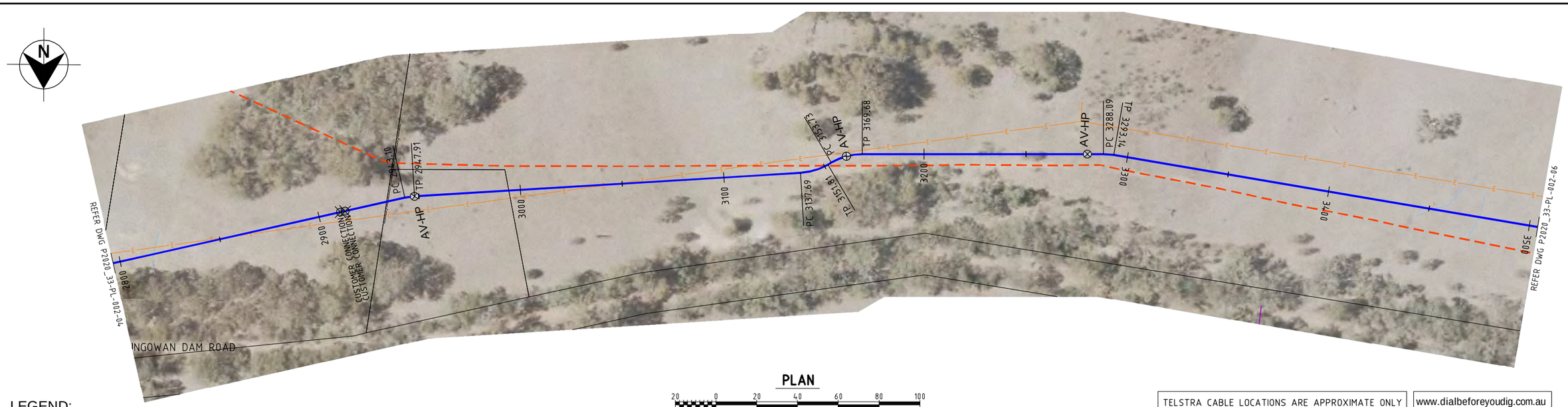
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH2800 to CH3500

REV. 1

PLAN No. P2020_33-PL-002-04



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY

- THEY SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION OF PIPELINE. CONTRACTOR TO ENSURE MINIMUM DISTANCE OF 2.5 METRES BETWEEN TELSTRA CABLE AND PIPELINE. SHOULD PIPELINE OFFSET BE CHANGED TO ACCOMMODATE MINIMUM DISTANCE REQUIREMENT CONTRACTOR TO NOTIFY AUTHORITY PRIOR TO CONSTRUCTION.

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WARNING

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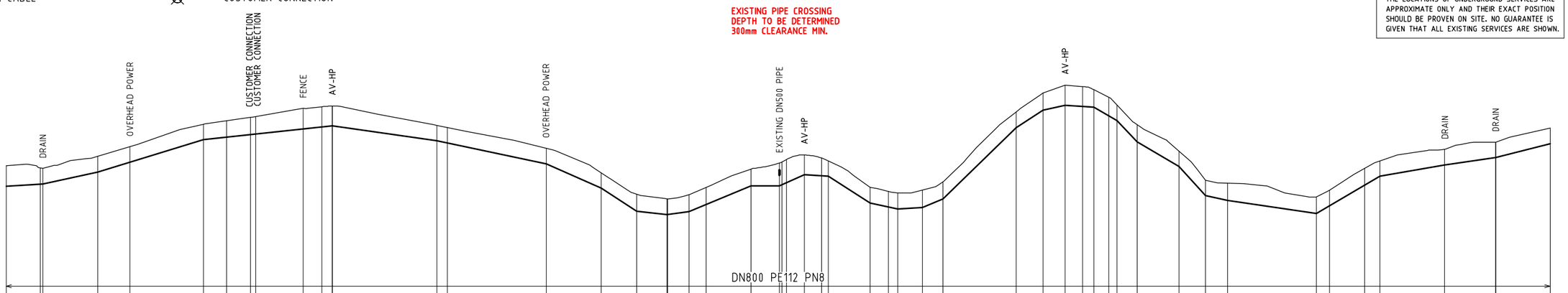
LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

EXISTING PIPE CROSSING DEPTH TO BE DETERMINED 300mm CLEARANCE MIN.



Datum 585.000m

Chainage	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE
2800.00	1.86	599.12	597.27
2815.46	1.46	598.93	597.47
2816.65	1.40	598.89	597.49
2841.60	1.45	600.81	598.56
2856.15	1.42	600.87	599.45
2889.49	1.40	602.90	601.50
2900.00	1.48	603.21	601.73
2910.75	1.56	603.52	601.96
2913.10	1.59	603.60	602.01
2934.66	1.87	604.34	602.47
2943.10	1.84	604.49	602.65
2947.87	1.80	604.56	602.76
2947.91	1.80	604.56	602.76
2995.31	1.40	602.80	601.40
3000.00	1.40	602.61	601.21
3044.83	1.40	600.72	599.31
3069.79	1.40	598.49	597.09
3085.89	1.55	596.55	595.00
3099.60	1.43	596.13	594.70
3100.00	1.42	596.13	594.71
3109.57	1.52	596.49	594.97
3117.33	1.55	597.16	595.61
3137.69	1.53	598.84	597.31
3151.81	2.05	599.37	597.32
3153.73	2.05	599.47	597.42
3153.73	2.08	599.68	597.60
3161.84	1.80	600.12	598.32
3169.68	1.61	599.84	598.22
3172.72	1.40	599.59	598.19
3191.72	1.40	597.16	595.76
3200.00	1.41	596.80	595.39
3204.29	1.47	596.67	595.19
3225.40	1.60	596.93	595.33
3224.71	1.55	597.66	596.11
3257.96	1.40	602.00	602.60
3270.18	1.55	605.74	604.19
3281.17	1.80	606.44	604.64
3288.09	1.80	606.33	604.53
3293.14	1.58	606.04	604.46
3300.00	1.67	605.33	603.66
3303.71	1.40	604.62	603.22
3312.88	1.55	602.85	601.30
3331.81	1.40	600.46	599.06
3343.78	1.40	597.82	596.42
3353.77	1.57	597.55	595.98
3394.00	1.49	596.28	594.79
3400.00	1.42	596.91	595.49
3415.90	1.53	598.89	597.36
3422.89	1.40	599.59	598.19
3452.16	1.42	600.61	599.19
3475.25	1.40	601.28	599.88
3475.38	1.40	601.28	599.88
3500.00	1.43	602.55	601.12

TRENCH TYPE: 3

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE: -	REPORT: -	JOB: P2020_33
VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

WaterNSW

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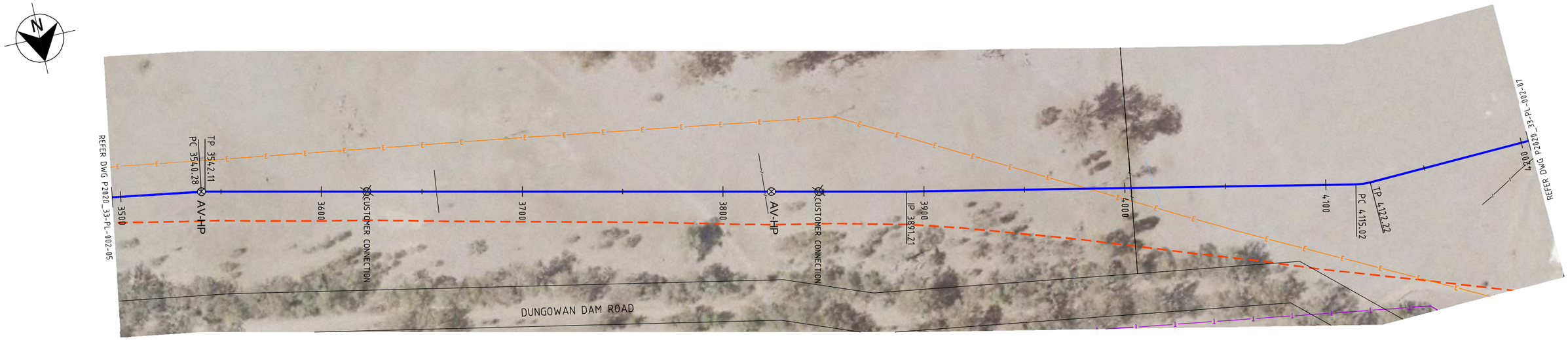
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH2800 to CH3500

REV. 1

PLAN No. P2020_33-PL-002-05



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
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- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY

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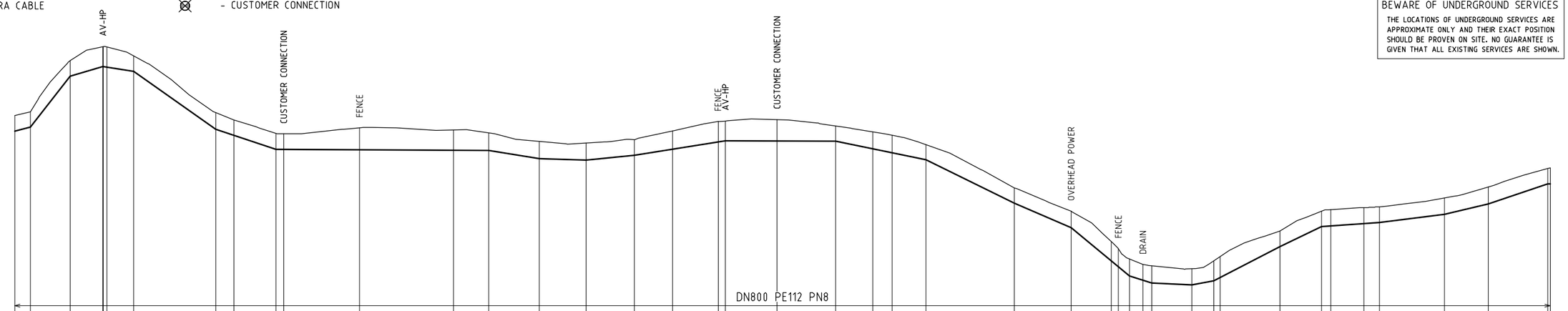

Datum 582.000m

Chainage	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE
3500.00	1.43	602.55	601.12
3507.16	1.41	602.89	601.48
3525.32	1.40	607.54	606.14
3540.25	1.80	608.81	607.01
3542.11	1.83	608.82	607.00
3554.24	1.40	607.99	606.59
3591.60	1.55	602.82	601.27
3600.00	1.42	602.14	600.72
3619.08	1.45	600.91	599.46
3622.65	1.41	600.87	599.46
3657.28	1.98	601.41	599.42
3700.00	1.84	601.22	599.38
3716.20	1.57	600.94	599.37
3739.20	1.55	600.17	598.62
3760.54	1.55	600.03	598.48
3782.55	1.40	600.32	598.92
3800.00	1.67	601.14	599.48
3820.71	1.84	601.98	600.14
3823.98	1.80	602.04	600.24
3847.54	1.96	602.17	600.22
3875.28	1.40	601.59	600.19
3891.21	1.55	601.03	599.49
3900.00	1.60	600.73	599.13
3925.40	1.40	599.89	598.49
3955.79	1.40	595.94	594.54
3981.64	1.50	593.82	592.32
4000.00	1.75	591.02	589.28
4003.20	1.63	590.37	588.75
4008.22	1.55	589.46	587.91
4014.40	1.42	588.94	587.52
4018.34	1.55	588.82	587.27
4036.61	1.46	588.56	587.10
4044.41	1.83	589.29	587.46
4049.46	1.91	589.67	587.76
4076.87	1.40	591.99	590.59
4095.82	1.40	593.81	592.41
4100.00	1.48	593.96	592.48
4115.02	1.44	594.14	592.69
4122.22	1.42	594.22	592.80
4151.77	1.48	595.01	593.53
4171.82	1.55	596.02	594.47
4198.88	1.40	597.70	596.30
4200.00	1.46	597.77	596.31

TRENCH TYPE: 3

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

DIAL BEFORE YOU DIG www.1100.com.au

ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES	SHEET
AS SHOWN	A3
FILE: -	REPORT: -
JOB: P2020_33	
VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)
APPROVED: - (POSITION)	

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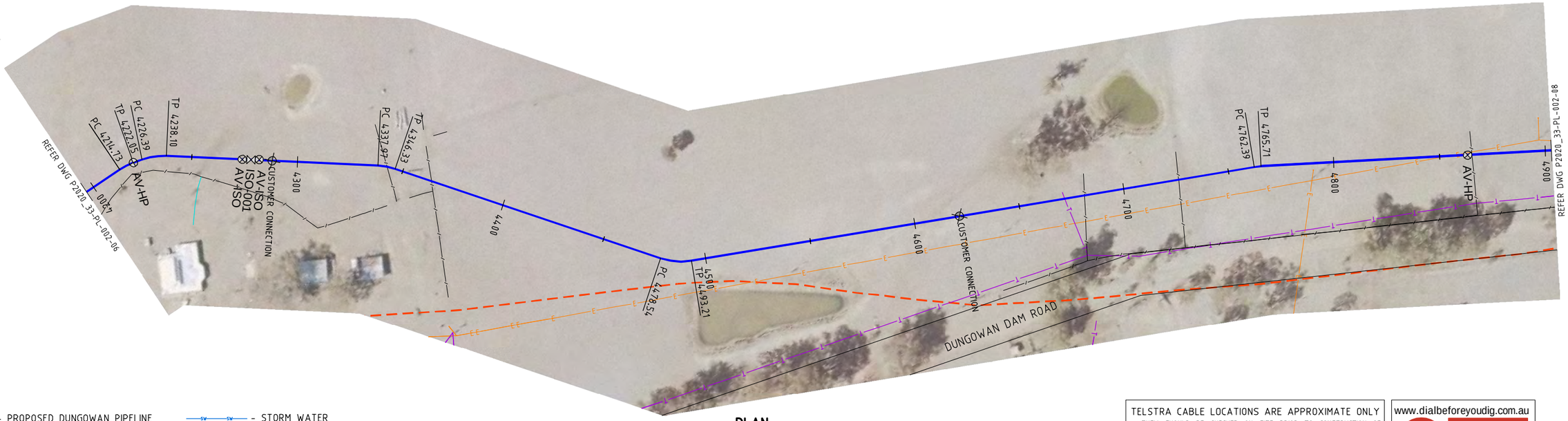
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH3500 to CH4200

REV. 1

PLAN No. P2020_33-PL-002-06



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

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WARNING

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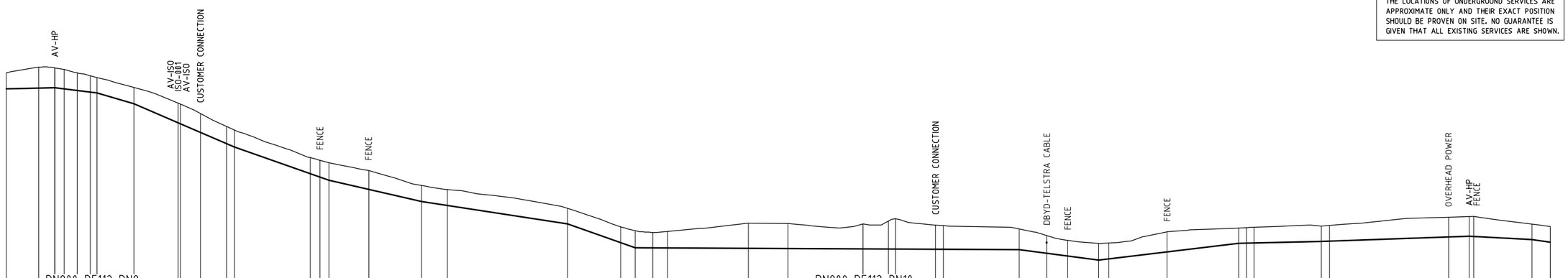
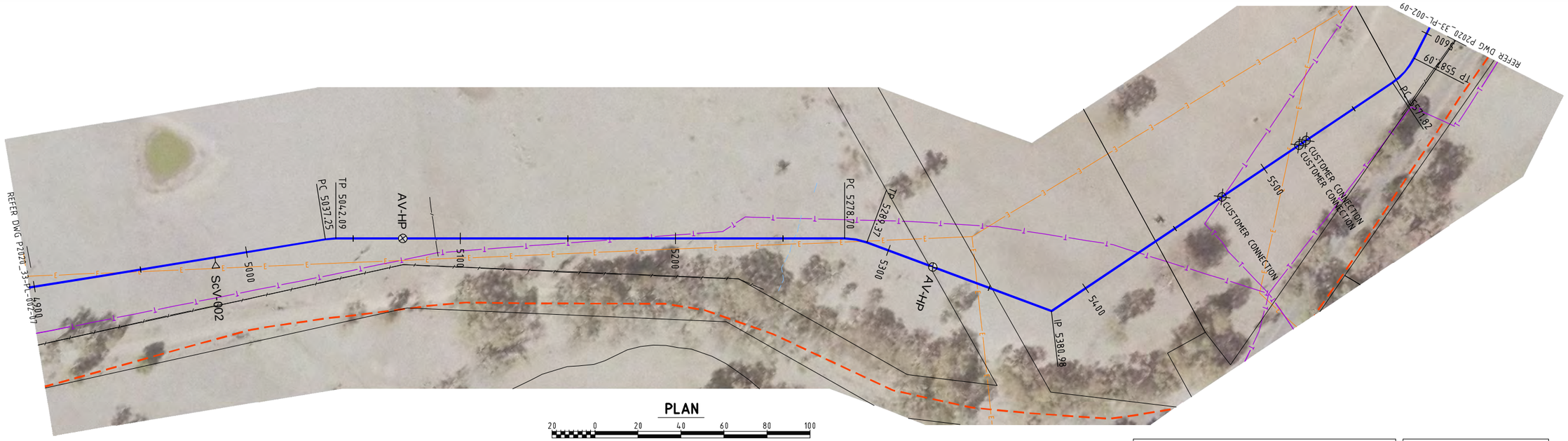


| Datum 575.000m | | |



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
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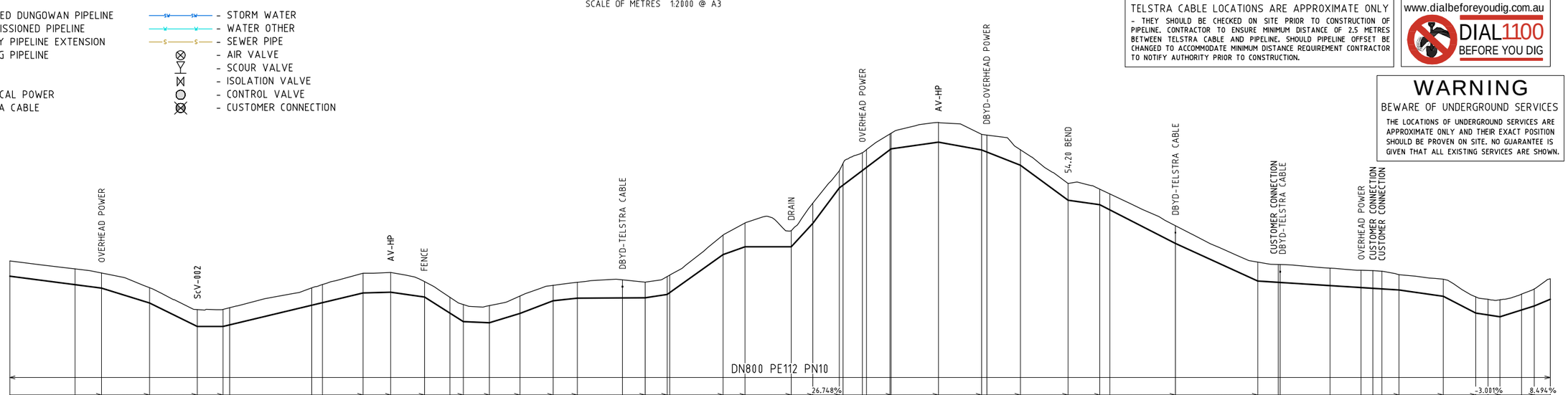

Datum 570.000m

Chainage	NAT. SURFACE	INVERT OF PIPE	DEPTH TO INVERT
4900.00	583.81	582.41	1.40
4929.67	583.08	581.63	1.46
4941.79	582.71	581.31	1.40
4963.59	581.36	579.96	1.40
4985.20	579.37	577.82	1.55
4996.88	579.39	577.84	1.55
5008.00	579.55	577.99	1.56
5037.25	581.33	579.77	1.56
5042.09	581.64	580.00	1.64
5060.52	582.68	580.88	1.80
5073.18	582.76	580.96	1.80
5088.45	581.91	580.51	1.40
5100.00	580.49	579.05	1.44
5106.16	579.82	578.27	1.55
5118.07	579.73	578.18	1.55
5131.84	580.59	579.04	1.55
5146.96	581.58	580.18	1.40
5157.96	581.85	580.42	1.43
5178.52	582.08	580.44	1.64
5188.69	581.85	580.45	1.40
5198.68	582.36	580.76	1.59
5200.00	582.51	580.95	1.56
5224.22	586.14	584.36	1.79
5234.19	587.25	585.07	2.18
5255.16	586.53	585.09	1.44
5264.90	589.04	587.20	1.83
5277.05	592.00	590.45	1.55
5278.70	592.69	590.70	1.99
5287.46	593.63	592.03	1.60
5289.37	593.92	592.31	1.60
5300.00	595.34	593.92	1.42
5301.58	595.41	594.01	1.40
5322.02	596.40	594.60	1.80
5334.71	595.30	593.90	1.40
5343.97	595.26	593.72	1.54
5359.30	593.92	592.52	1.40
5380.98	590.83	589.33	1.50
5395.40	590.31	588.91	1.40
5400.00	589.88	588.44	1.44
5429.73	587.00	585.39	1.61
5467.10	583.70	581.98	1.72
5476.40	583.46	581.86	1.61
5477.34	583.46	581.84	1.61
5500.00	583.14	581.55	1.59
5514.00	582.95	581.37	1.58
5519.49	582.93	581.30	1.63
5523.50	582.87	581.24	1.63
5531.41	582.54	581.14	1.40
5551.43	582.14	580.59	1.55
5566.23	580.53	579.04	1.49
5571.82	580.29	578.87	1.42
5577.30	580.26	578.71	1.55
5587.09	580.77	579.34	1.43
5592.84	581.26	579.71	1.55
5600.00	582.17	580.32	1.85

TRENCH TYPE: 3

-2.628% -6.200% -9.906% 0.202% 4.777% 0.623% -2.929% -12.682% -0.761% 6.233% 7.574% 2.160% 0.100% 3.136% 14.080% 7.142% 0.100% 21.706% 26.748% 15.107% 2.756% -3.554% -7.841% -14.717% -2.871% -10.272% -9.124% -1.304% -2.724% -10.487% -3.001% 6.432% 8.494%

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES
DRAWN T. ALVARADO
CHECKED S. McKENZIE

SCALES AS SHOWN
FILE -
REPORT -
SHEET A3
JOB P2020_33
VERIFIED A. SINN POSITION
APPROVED P. SEMIANIW POSITION
APPROVED - POSITION

WaterNSW

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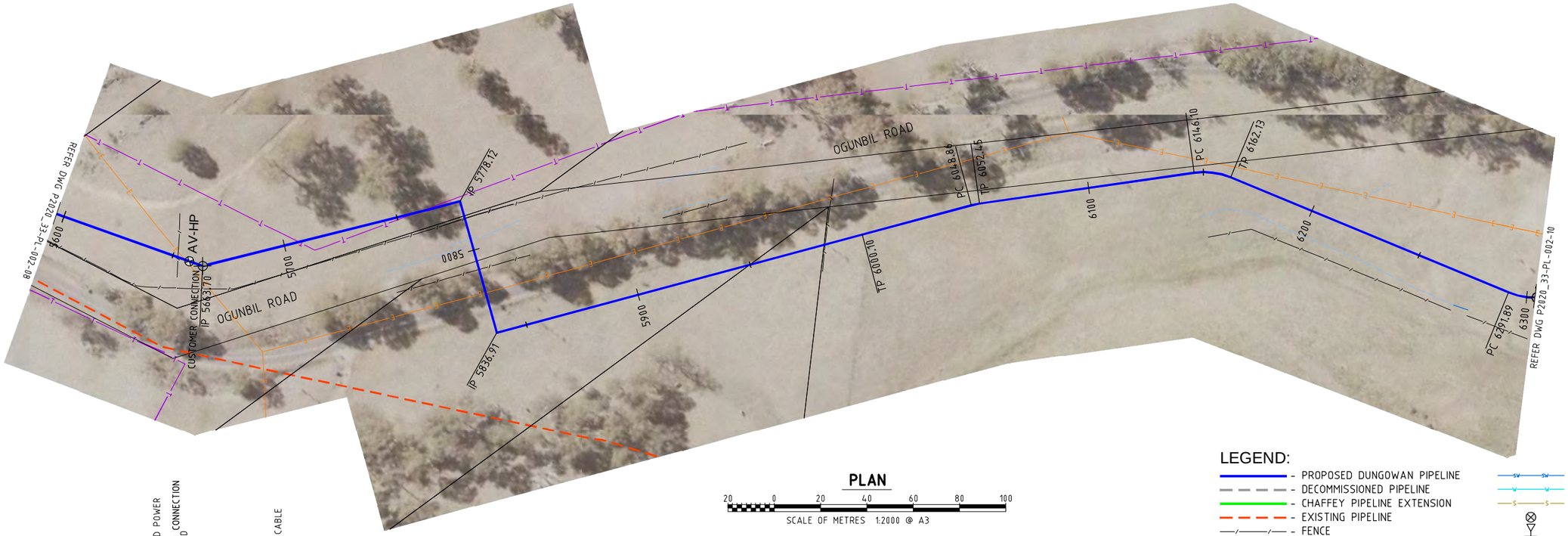
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH4900 to CH5600

REV. 1

PLAN No. P2020_33-PL-002-08



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
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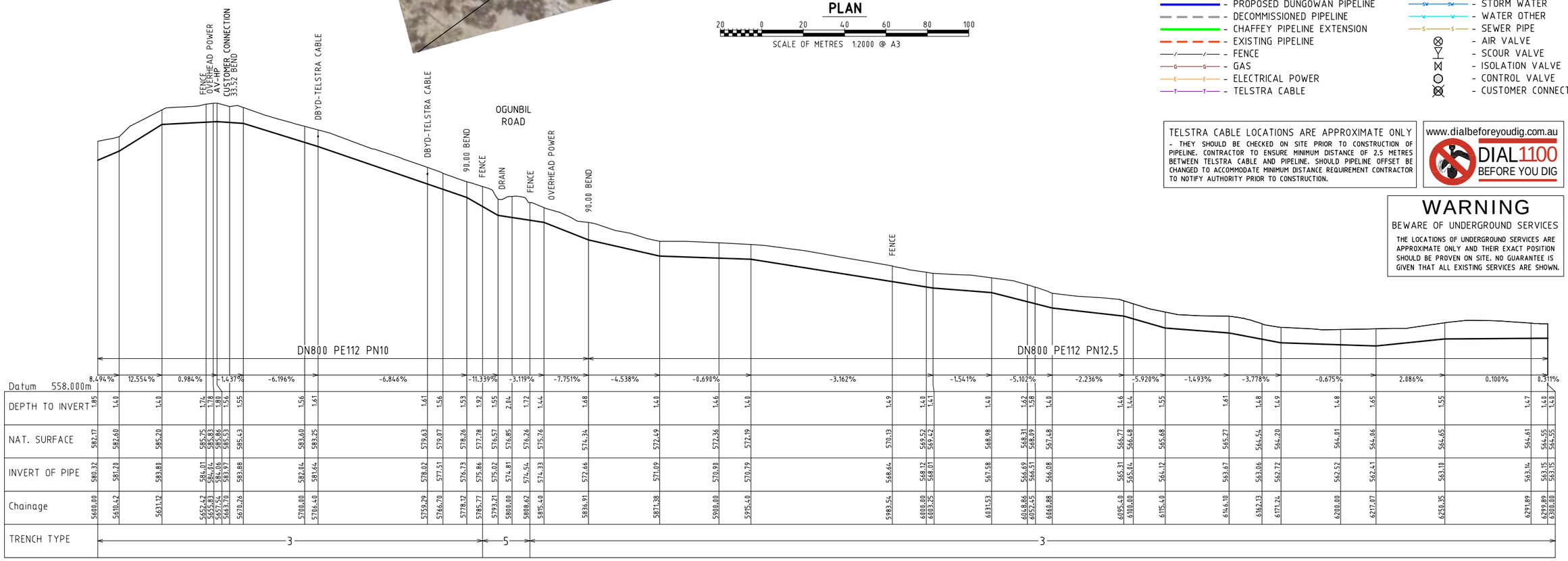

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES
DRAWN T. ALVARADO
CHECKED S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE -	REPORT -	JOB P2020_33
VERIFIED A. SINN	APPROVED P. SEMIANIW	APPROVED -
POSITION	POSITION	POSITION

WaterNSW

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DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH5600 to CH6300

REV. 1

PLAN No. P2020_33-PL-002-09

PLAN

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
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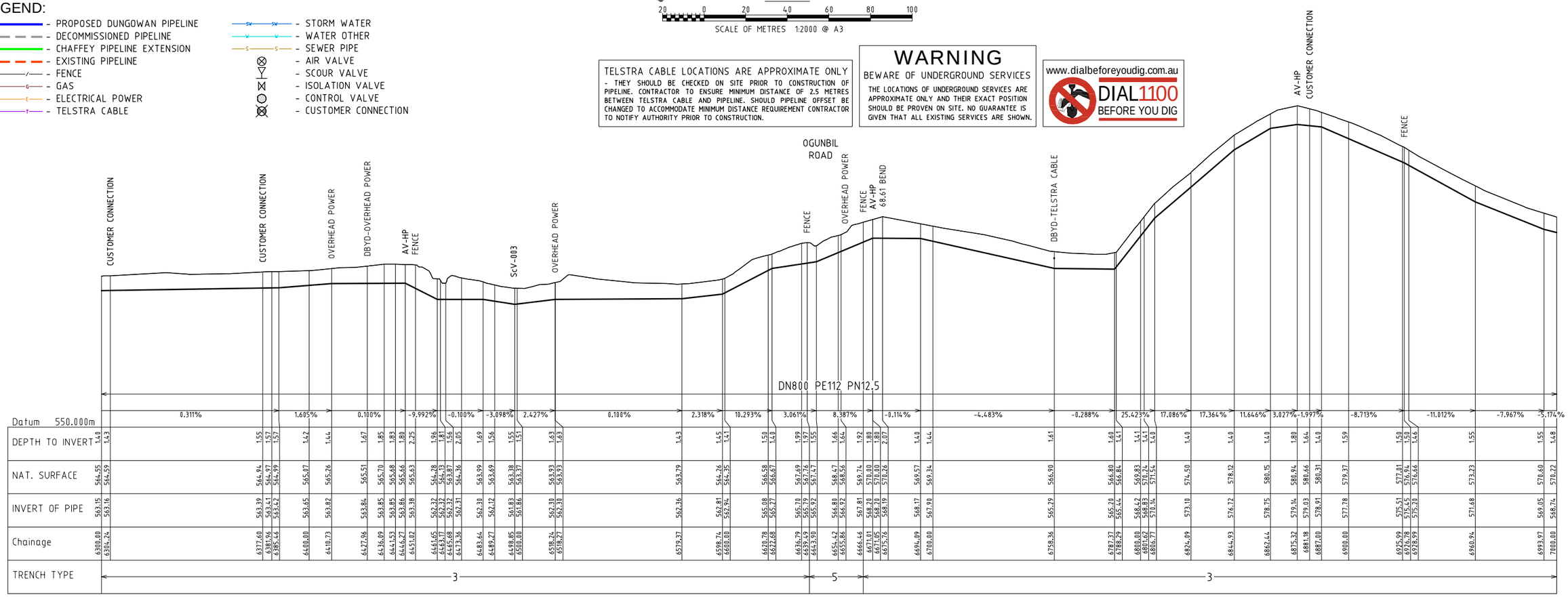

LONGITUDINAL SECTION

VERTICAL SCALE OF METRES 1:400 @ A3

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES	SCALES: AS SHOWN		SHEET: A3
DRAWN: T. ALVARADO	FILE: -	REPORT: -	JOB: P2020_33
CHECKED: S. McKENZIE	VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

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DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH6300 to CH7000

REV.	PLAN No.
1	P2020_33-PL-002-10

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
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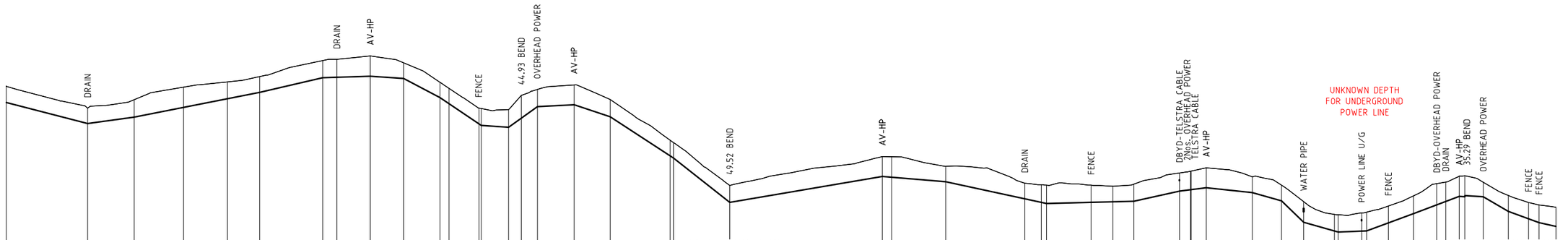
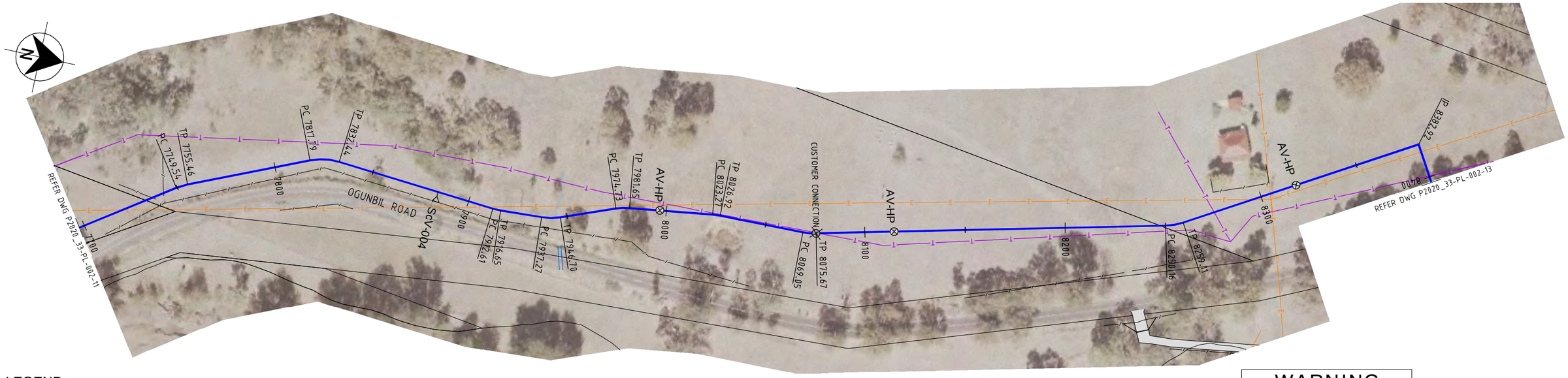


| | | |



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
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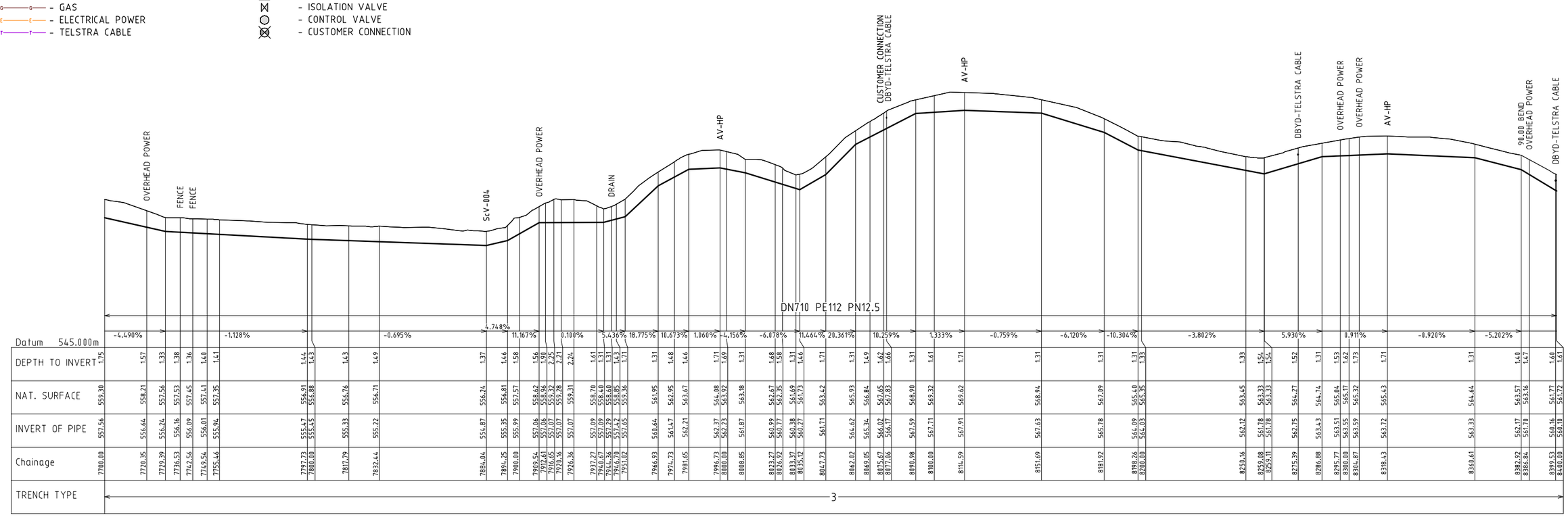

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE: -	REPORT: -	JOB: P2020_33
VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

WaterNSW

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DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH7700 to CH8400

REV. 1

PLAN No. P2020_33-PL-002-12

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

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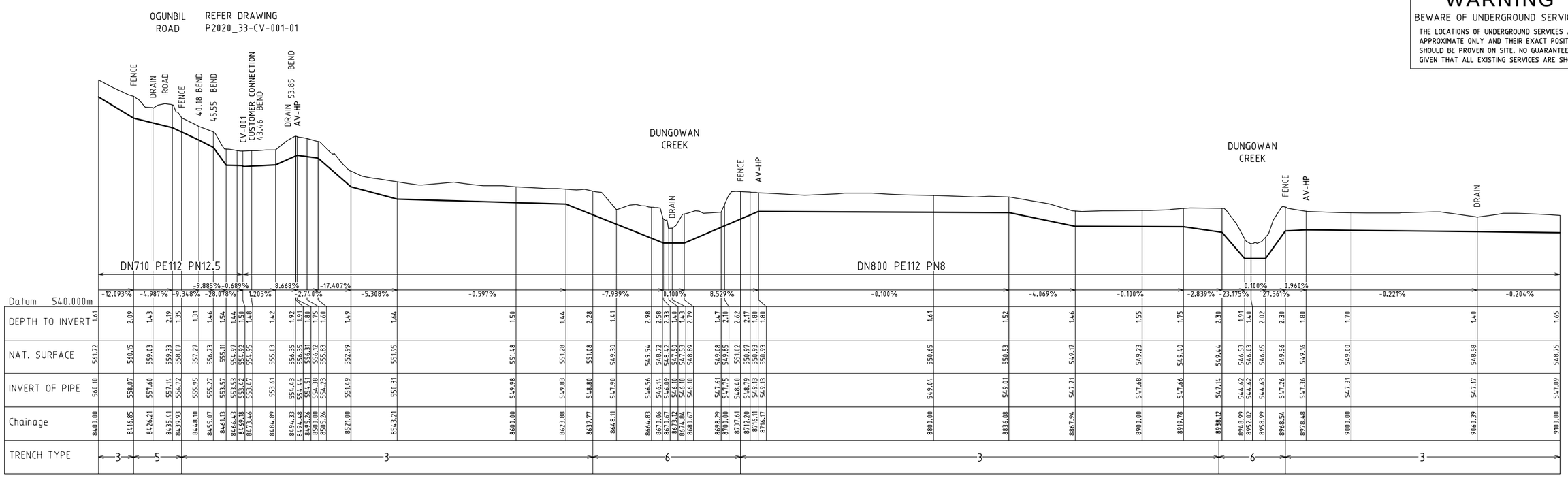

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES	SCALES AS SHOWN	SHEET A3
DRAWN T. ALVARADO	FILE - / REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION) / APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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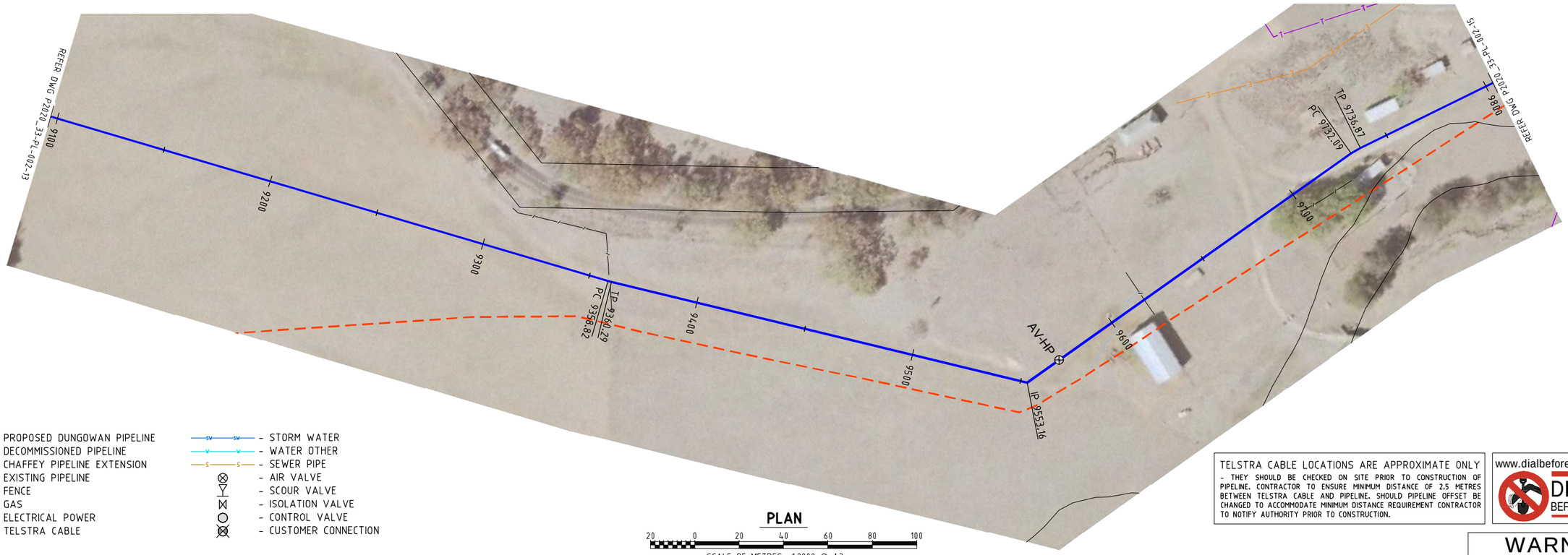
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH8400 to CH9100

REV. 1

PLAN No. P2020_33-PL-002-13



LEGEND:

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- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
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- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

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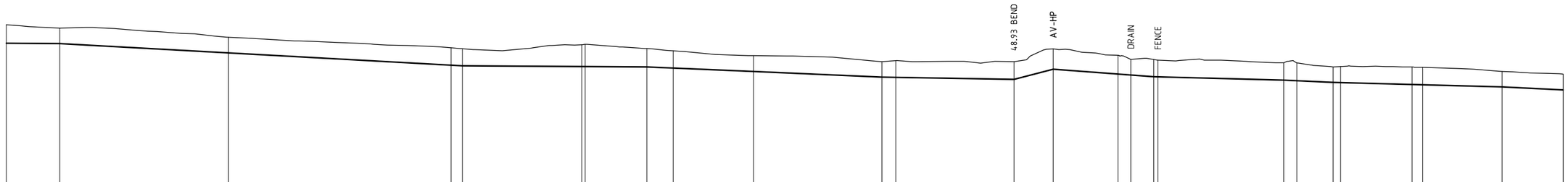
DIAL 1100 BEFORE YOU DIG

WARNING

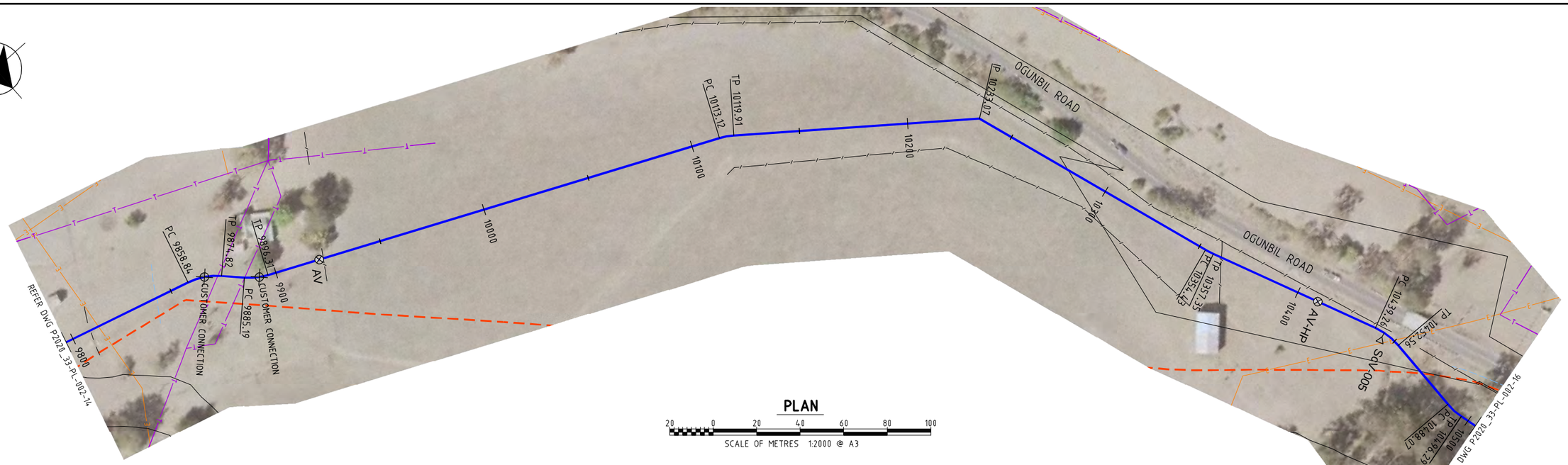
BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS 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.



Datum 530.000m

| | | |



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

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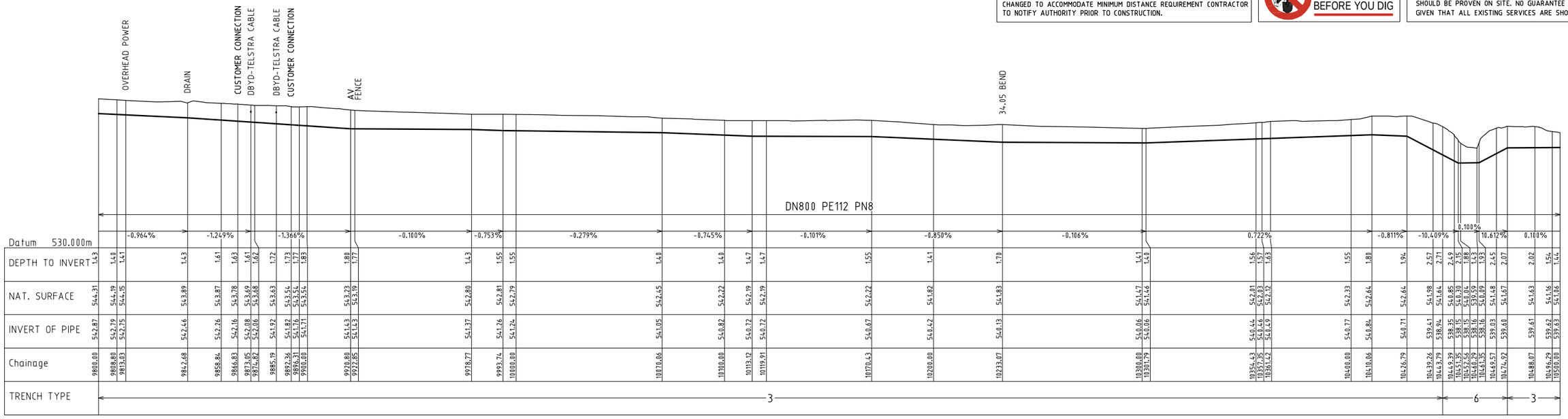

LONGITUDINAL SECTION

4 0 4 8 12 16 20
VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100
HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES	SCALES: AS SHOWN		SHEET: A3
DRAWN: T. ALVARADO	FILE: -	REPORT: -	JOB: P2020_33
CHECKED: S. McKENZIE	VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

WaterNSW

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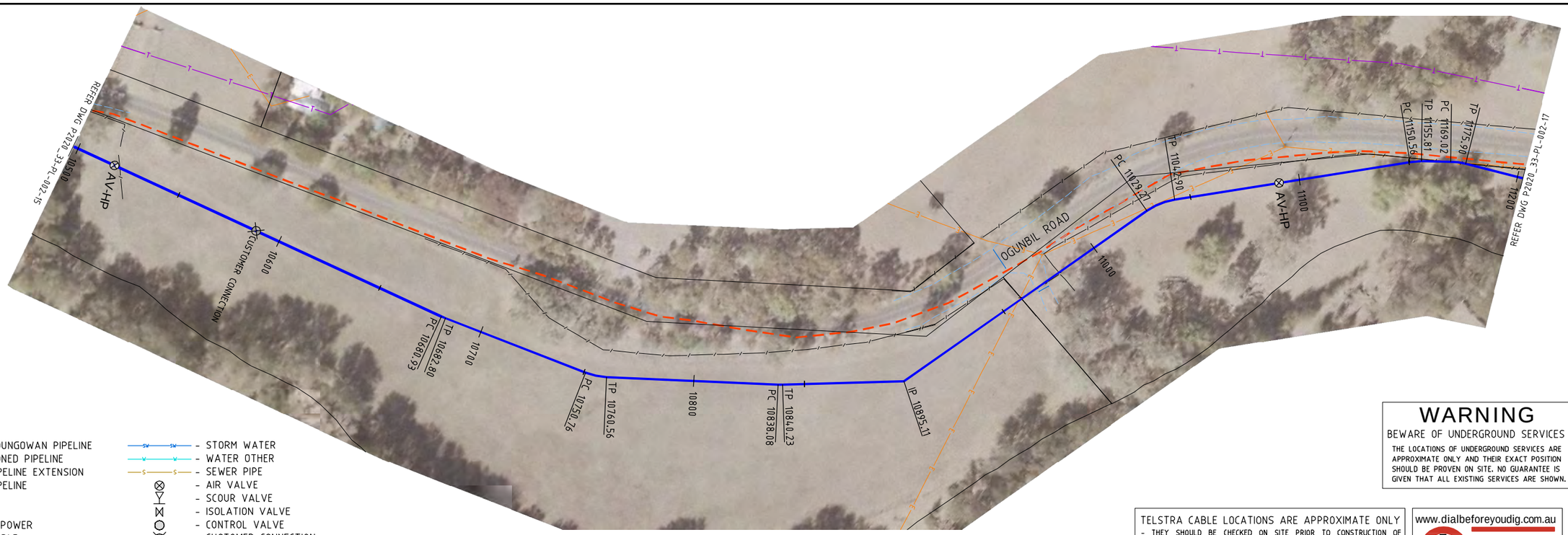
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH9800 to CH10500

REV.	PLAN No.
1	P2020_33-PL-002-15



LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

WARNING

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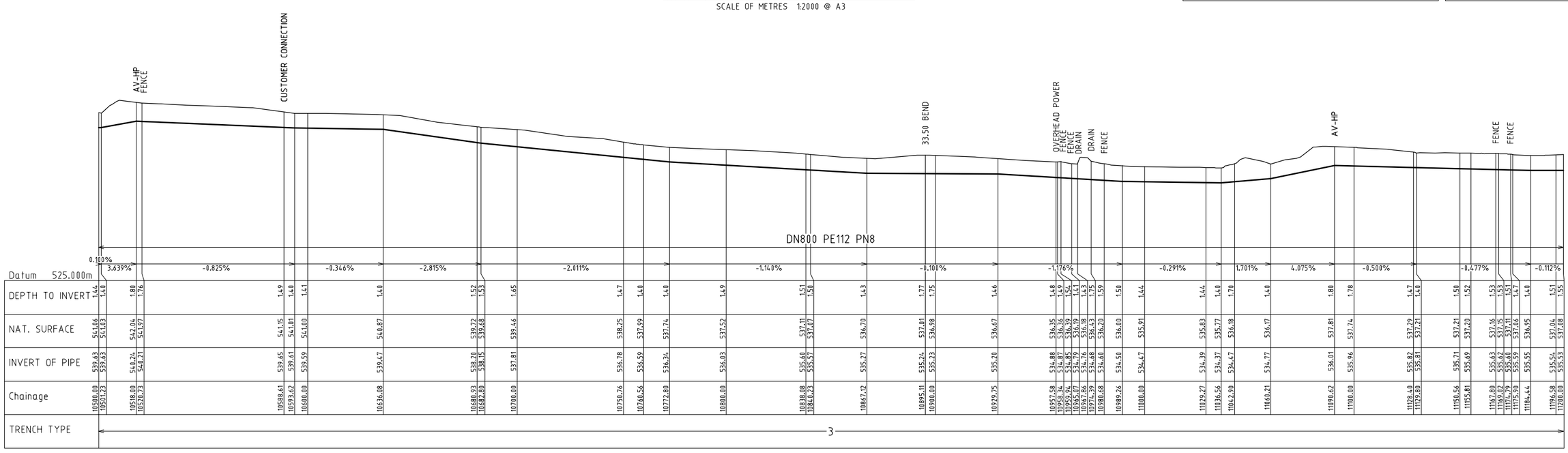
DIAL 1100 BEFORE YOU DIG



LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

DIAL BEFORE YOU DIG www.1100.com.au

ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES	SCALES AS SHOWN	SHEET A3
DRAWN T. ALVARADO	FILE -	REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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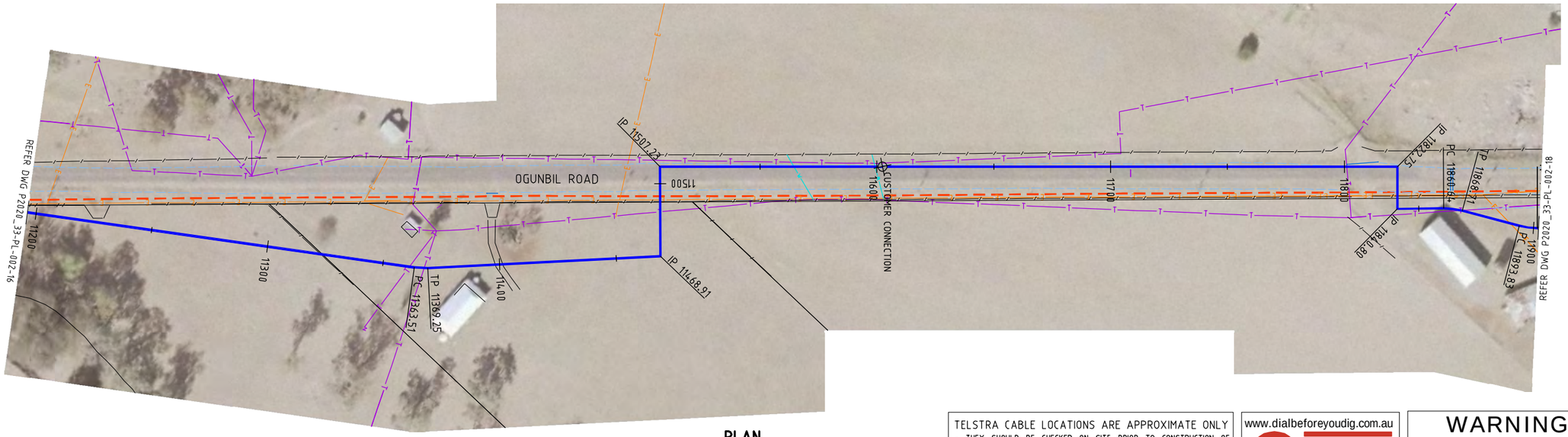
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH10500 to CH11200

REV.	PLAN No.
1	P2020_33-PL-002-16



LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
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- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

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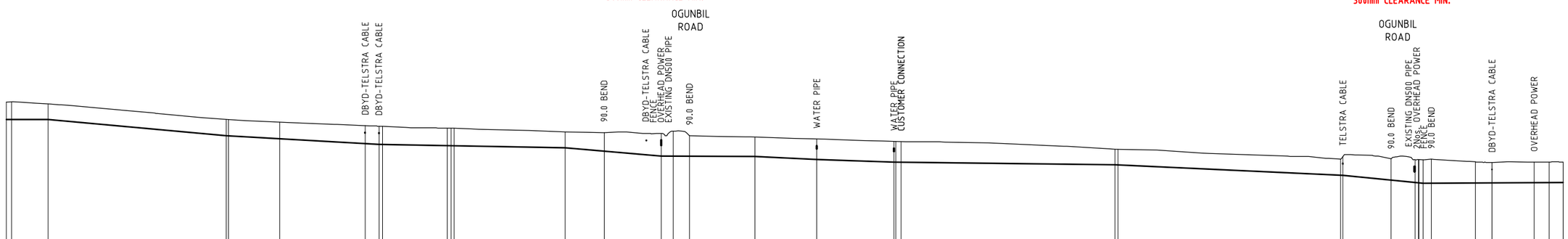
PIPELINE IN ROAD RESERVE (VERGE)

EXISTING PIPE CROSSING DEPTH TO BE DETERMINED 300mm CLEARANCE MIN.

EXISTING PIPE CROSSING DEPTH TO BE DETERMINED 300mm CLEARANCE MIN.



Datum 520.000m

Chainage	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE
11200.00	1.55	537.08	535.53
11202.43	1.58	537.11	535.53
11218.93	1.40	536.91	535.51
11288.88	1.45	535.53	534.08
11300.00	1.45	535.52	534.07
11322.92	1.47	535.27	533.80
11361.42	1.61	534.97	533.36
11367.69	1.64	534.92	533.29
11369.25	1.63	534.91	533.28
11398.30	1.56	534.74	533.18
11400.00	1.57	534.74	533.17
11401.33	1.56	534.73	533.17
11451.28	1.40	534.39	532.99
11468.91	1.66	534.35	532.68
11494.52	2.05	534.28	532.23
11500.00	2.24	534.47	532.23
11507.23	1.85	534.07	532.22
11536.75	1.76	533.95	532.19
11564.41	1.85	533.77	531.92
11599.17	1.85	533.55	531.70
11600.00	1.85	533.55	531.70
11602.39	1.84	533.54	531.69
11698.59	1.40	532.86	531.46
11700.00	1.41	532.85	531.44
11800.00	1.45	531.98	530.53
11801.86	1.68	532.20	530.52
11822.75	1.91	532.00	530.09
11833.59	2.04	531.91	529.87
11835.33	2.09	531.93	529.84
11835.28	2.09	531.93	529.84
11837.10	2.10	531.90	529.80
11840.80	2.17	531.97	529.80
11860.64	1.89	531.71	529.82
11868.16	1.84	531.67	529.83
11887.08	1.85	531.70	529.85
11893.83	1.85	531.71	529.86
11900.00	1.85	531.71	529.86

Gradients: -0.112% | -1.788% | -1.156% | -0.355% | -1.749% | -0.100% | -0.980% | -0.633% | -0.244% | -0.916% | -1.995% | 0.100%

TRENCH TYPE: 3 | 5 | 3 | 4 | 5 | 3

LONGITUDINAL SECTION

4 0 4 8 12 16 20
VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100
HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES	SHEET
AS SHOWN	A3

FILE	REPORT	JOB
-	-	P2020_33

VERIFIED	APPROVED	APPROVED
A. SINN	P. SEMIANIW	-
POSITION	POSITION	POSITION

WaterNSW

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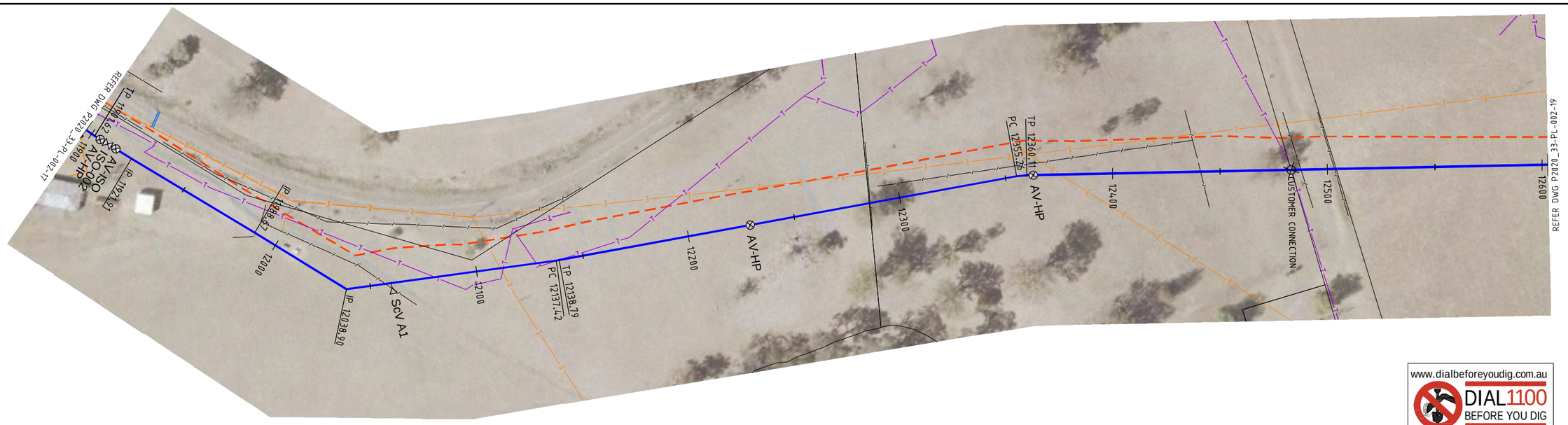
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH11200 to CH11900

REV. 1

PLAN No. P2020_33-PL-002-17



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LEGEND:

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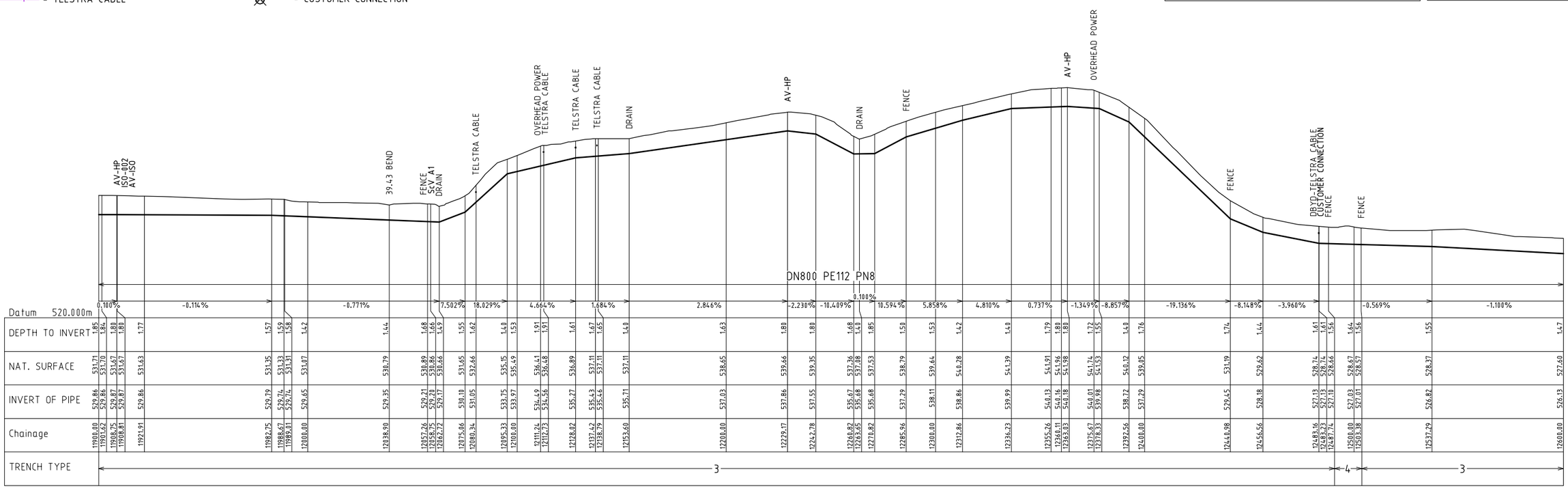

LONGITUDINAL SECTION

VERTICAL SCALE OF METRES 1:400 @ A3

HORIZONTAL SCALE OF METRES 1:2000 @ A3

DIAL BEFORE YOU DIG www.1100.com.au

ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
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DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES	SCALES: AS SHOWN		SHEET: A3
DRAWN: T. ALVARADO	FILE: -	REPORT: -	JOB: P2020_33
CHECKED: S. McKENZIE	VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

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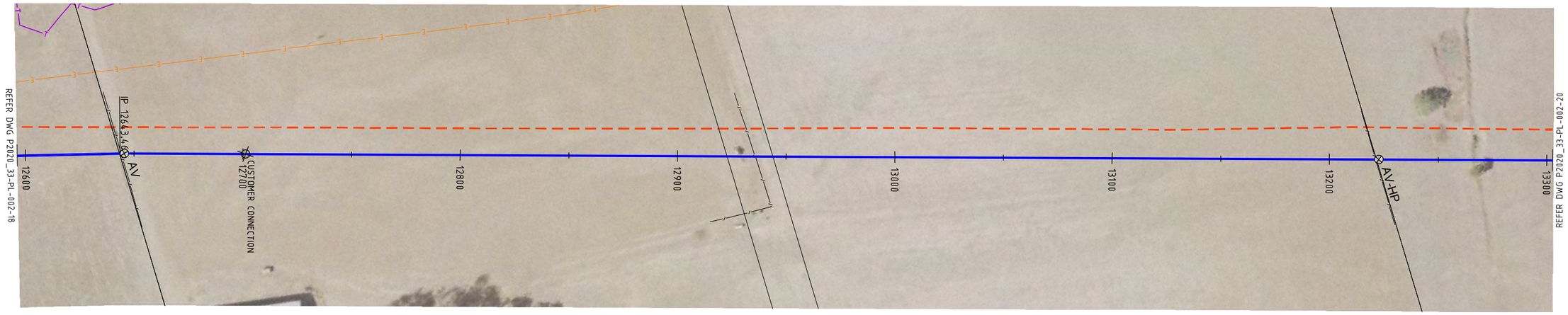
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH11900 to CH12600

REV.	PLAN No.
1	P2020_33-PL-002-18



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
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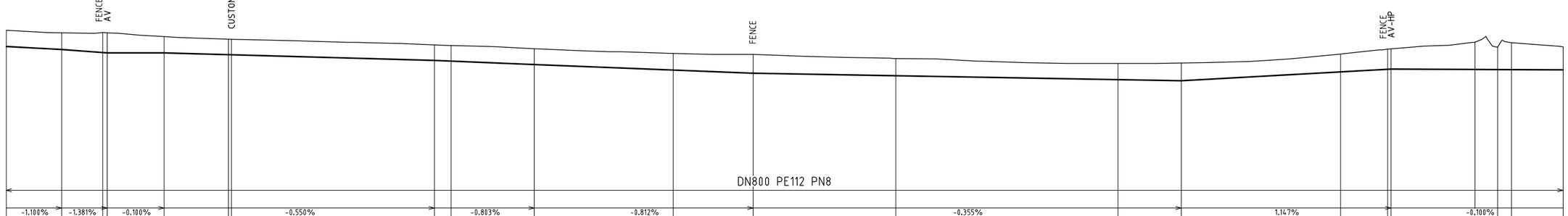

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DEPTH TO INVERT	1.47	1.51	1.79	1.80	1.48	1.40	1.40	1.40	1.40	1.41	1.40	1.51	1.69	1.57	1.47	1.62	1.61	1.79	1.80	2.44	2.03	2.41	2.07
NAT. SURFACE	527.60	527.37	527.39	527.37	527.03	526.79	526.78	526.28	526.22	525.92	525.51	525.41	525.06	524.61	524.65	525.46	525.90	525.92	526.52	526.10	526.47	526.11
INVERT OF PIPE	526.13	525.85	525.60	525.57	525.55	525.39	525.38	524.88	524.82	524.52	524.01	523.72	523.49	523.14	523.04	523.86	524.10	524.12	524.08	524.07	524.06	524.04
Chainage	12600.00	12624.97	12643.46	12645.41	12670.93	12700.00	12701.26	12792.56	12800.00	12837.50	12900.00	12935.79	13000.00	13100.00	13128.33	13200.00	13222.22	13222.66	13260.39	13278.67	13278.88	13300.00
TRENCH TYPE	3																						

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES
DRAWN T. ALVARADO
CHECKED S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE -	REPORT -	JOB P2020_33
VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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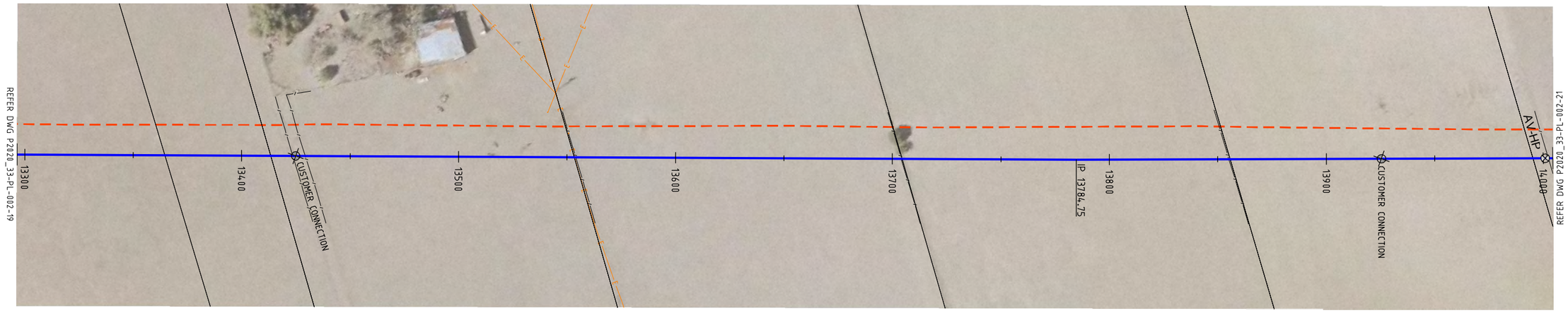
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH12600 to CH13300

REV. 1

PLAN No. P2020_33-PL-002-19



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
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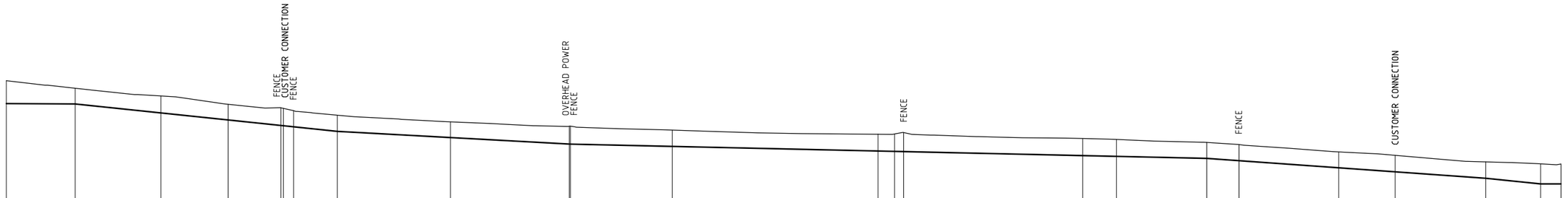

Datum 510.000m

DEPTH TO INVERT	2.07	1.41	1.51	1.41	1.60	1.56	1.45	1.46	1.41	1.60	1.63	1.46	1.52	1.58	1.70	1.52	1.51	1.43	1.44	1.42	1.48	1.48	1.81	1.78
NAT. SURFACE	526.11	525.42	524.71	523.97	523.66	523.60	523.40	522.99	522.38	521.99	522.01	521.64	521.28	521.30	521.41	528.87	528.79	528.53	528.33	519.67	519.36	518.77	518.59	518.57
INVERT OF PIPE	524.04	524.01	523.20	522.56	522.07	522.04	521.95	521.53	520.97	520.39	520.38	520.17	519.76	519.73	519.71	519.35	519.28	519.10	518.89	518.24	517.88	517.29	516.78	516.79
Chainage	13300.00	13331.01	13369.58	13400.00	13423.63	13424.93	13429.36	13449.02	13500.00	13553.47	13556.10	13600.00	13692.62	13700.00	13704.07	13784.75	13800.00	13840.57	13855.09	13900.00	13925.42	13966.23	13996.87	14000.00
TRENCH TYPE	3																							

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES	SCALES AS SHOWN		SHEET A3
DRAWN T. ALVARADO	FILE -	REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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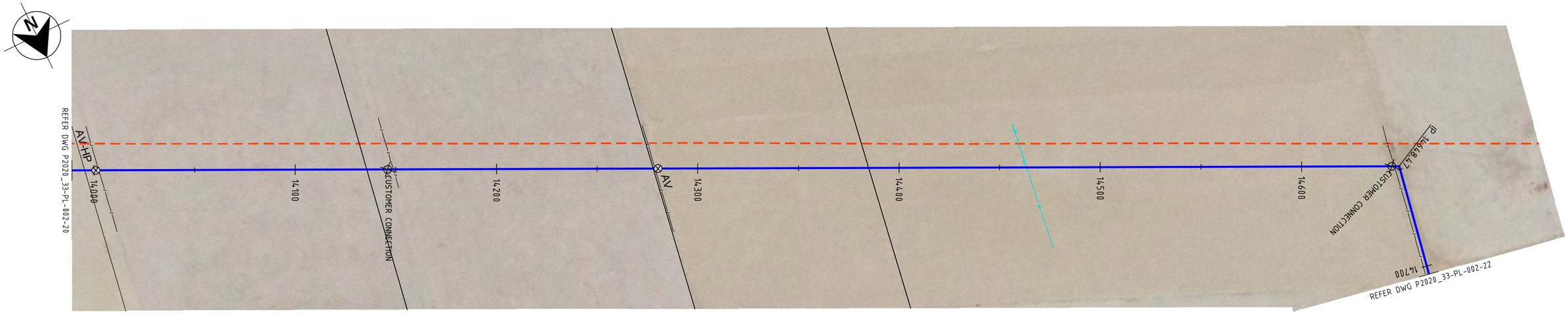
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH13300 to CH14000

REV. 1

PLAN No. P2020_33-PL-002-20



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY
- THEY SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION OF PIPELINE. CONTRACTOR TO ENSURE MINIMUM DISTANCE OF 2.5 METRES BETWEEN TELSTRA CABLE AND PIPELINE. SHOULD PIPELINE OFFSET BE CHANGED TO ACCOMMODATE MINIMUM DISTANCE REQUIREMENT CONTRACTOR TO NOTIFY AUTHORITY PRIOR TO CONSTRUCTION.

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WARNING
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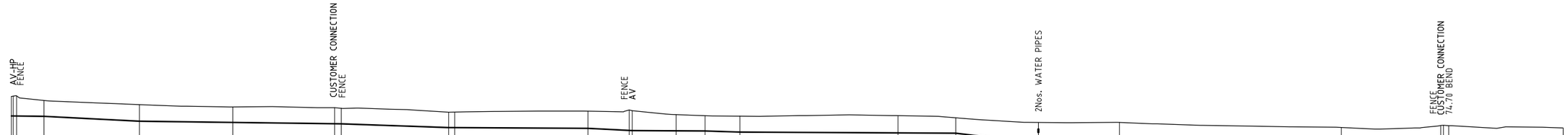

Datum 505.000m

	0.100%	-0.100%		-1.059%		-0.267%		-0.688%		-0.100%		-1.087%		-0.100%		-0.626%		-0.100%		-2.360%		-0.100%							
DEPTH TO INVERT	1.78	1.80	1.82	1.42	1.51	1.42	1.46	1.42	1.40	1.41	1.55	1.84	1.81	1.47	1.40	1.45	1.55	1.40	1.85	1.85	1.91	1.53	1.75	1.79	1.75	1.61
NAT. SURFACE	518.57	518.59	518.61	518.20	517.83	517.62	517.55	517.50	517.14	517.15	517.23	517.32	517.26	516.92	516.83	516.78	516.81	516.63	516.20	516.20	516.22	515.75	515.92	515.96	515.92	515.73
INVERT OF PIPE	516.79	516.79	516.79	516.77	516.32	516.21	516.08	516.08	515.74	515.74	515.68	515.48	515.46	515.44	515.43	515.33	515.26	515.23	514.35	514.35	514.32	514.22	514.17	514.17	514.17	514.12
Chainage	14000.00	14000.87	14002.42	14014.81	14057.87	14109.00	14145.86	14146.89	14197.29	14200.00	14261.19	14278.75	14281.19	14309.00	14313.00	14328.77	14400.00	14426.07	14443.36	14443.41	14500.00	14600.00	14644.80	14646.14	14648.47	14700.00
TRENCH TYPE	3																									

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

DIAL BEFORE YOU DIG www.1100.com.au

ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES	SCALES AS SHOWN		SHEET A3
DRAWN T. ALVARADO	FILE -	REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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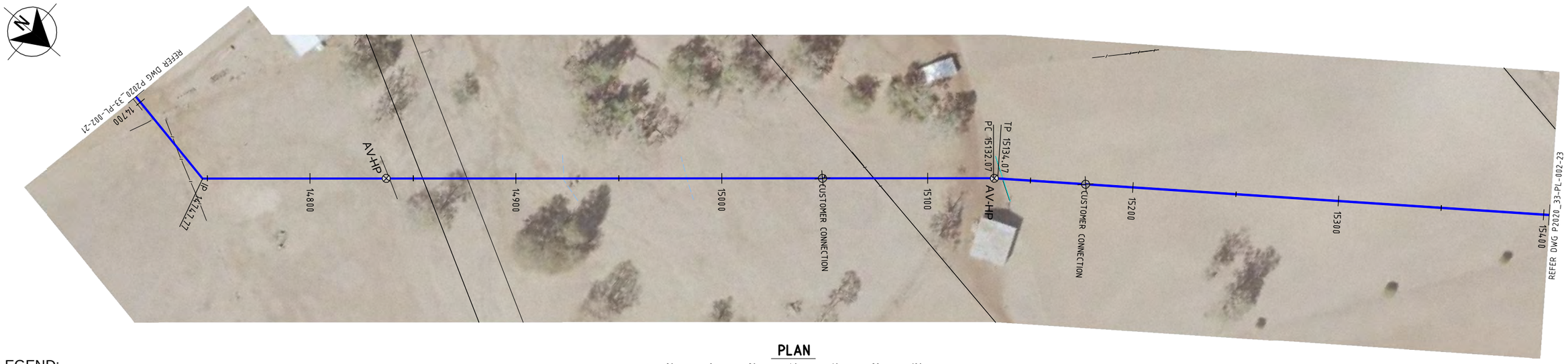
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH14000 to CH14700

REV.	PLAN No.
1	P2020_33-PL-002-21



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
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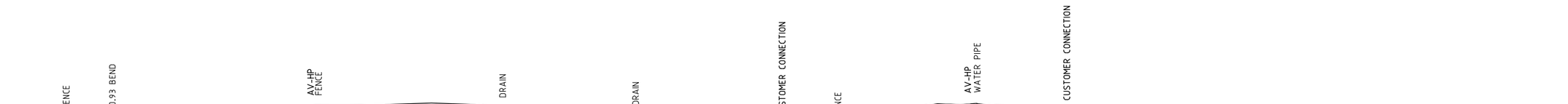

Datum 500.000m

	-0.100%	-5.687%	-1.565%	0.957%	1.991%	0.100%	-0.100%	-1.458%	-1.608%	15.345%	2.548%	-0.100%	-2.015%	-1.479%																
DEPTH TO INVERT	1.61	1.46	1.52	1.69	1.40	1.49	1.40	1.80	1.85	2.12	1.72	1.45	1.42	1.56	1.41	1.40	1.87	1.54	1.54	1.40	2.14	1.80	1.80	1.85	1.85	1.40	1.42	1.45	1.56	1.59	1.41
NAT. SURFACE	515.73	515.57	514.69	514.54	514.43	515.18	515.44	515.86	515.90	516.11	515.69	515.39	514.99	514.88	514.02	513.97	514.08	513.33	513.33	513.35	515.91	516.06	516.06	516.11	516.11	515.63	515.45	515.02	513.26	513.18	511.52
INVERT OF PIPE	514.12	514.11	513.17	512.85	513.03	513.69	514.04	514.06	514.06	513.99	513.97	513.94	513.57	513.32	512.61	512.57	512.21	511.79	511.79	511.95	513.77	514.26	514.26	514.26	514.26	514.23	514.04	513.57	511.71	511.60	510.12
Chainage	14700.00	14710.57	14726.98	14747.77	14766.50	14800.00	14817.36	14836.94	14838.50	14900.00	14923.36	14957.85	14983.89	15000.00	15048.96	15051.79	15074.95	15100.00	15100.25	15101.16	15113.86	15132.07	15132.40	15136.43	15136.61	15167.33	15176.88	15200.00	15292.56	15300.00	15400.00
TRENCH TYPE	3																														

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES	SCALES AS SHOWN		SHEET A3
DRAWN T. ALVARADO	FILE -	REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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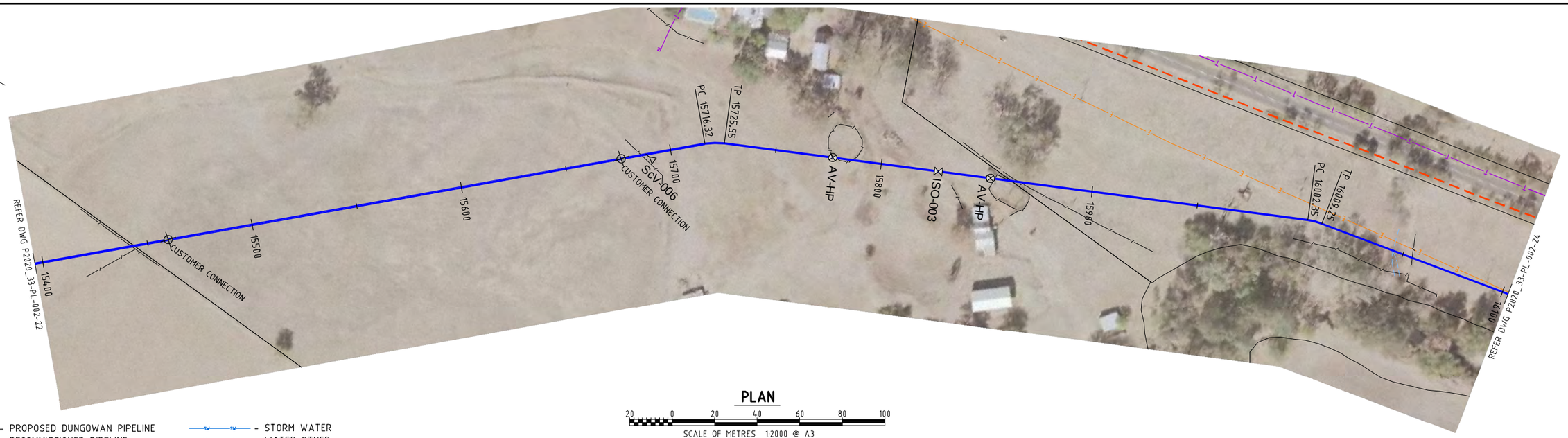
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH14700 to CH15400

REV.	PLAN No.
1	P2020_33-PL-002-22



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
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- AIR VALVE
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- CUSTOMER CONNECTION

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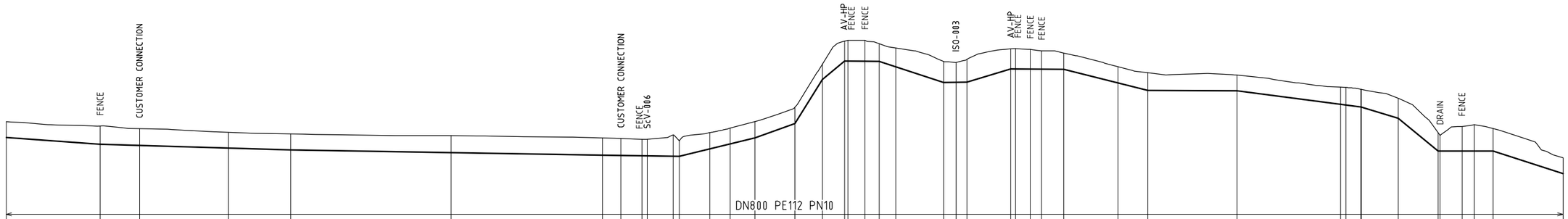

Chainage	Depth to invert	Nat. surface	Invert of pipe	Gradient
15400.00	1.41	511.52	510.12	
				-1.479%
15422.24	1.64	511.14	509.49	
				-0.607%
15459.92	1.51	510.89	509.39	
				-0.607%
15500.00	1.42	510.56	509.14	
				-0.324%
15527.97	1.45	510.42	508.97	
				-0.324%
15600.00	1.52	510.26	508.74	
				-0.324%
15668.36	1.55	510.07	508.52	
				-0.324%
15676.24	1.53	510.02	508.49	
				-0.324%
15685.86	1.47	509.93	508.46	
15688.22	1.49	509.94	508.45	
				-0.324%
15700.00	1.93	510.34	508.41	
15702.07	1.42	509.82	508.41	
				4.867%
15716.32	1.46	510.53	509.07	
				4.867%
15725.55	1.42	510.94	509.52	
				4.867%
15736.64	1.47	511.53	510.06	
				7.100%
15754.72	1.52	512.86	511.34	
				32.152%
15767.07	1.41	516.73	515.31	
				16.763%
15776.93	1.80	518.77	516.97	
15778.49	1.86	518.83	516.96	
				-0.100%
15786.21	1.89	518.84	516.96	
				-0.100%
15792.56	1.57	518.52	516.95	
				-0.100%
15800.00	1.69	518.15	516.46	
				-6.622%
15821.50	1.92	516.95	515.03	
				-6.622%
15827.07	1.88	516.86	515.06	
				0.403%
15837.01	2.06	517.14	515.08	
				6.045%
15851.73	1.80	518.07	516.27	
15853.79	1.83	518.10	516.27	
				-0.100%
15860.46	1.77	518.03	516.26	
15865.53	1.66	517.91	516.25	
				-5.030%
15875.59	1.45	517.70	516.24	
				-5.030%
15900.00	1.45	516.46	515.02	
				-0.100%
15913.29	1.58	515.92	514.35	
				-0.100%
15953.51	1.40	515.71	514.31	
				-2.625%
16000.00	1.55	514.63	513.09	
16002.35	1.58	514.60	513.03	
				-6.140%
16009.19	1.59	514.44	512.85	
16009.25	1.59	514.43	512.84	
				-6.140%
16025.85	1.80	513.62	511.82	
				-16.254%
16043.85	1.62	510.52	508.90	
16044.72	1.40	510.30	508.90	
				-0.100%
16056.65	2.19	511.08	508.89	
16060.13	2.37	511.26	508.88	
				-6.379%
16068.57	2.03	510.91	508.87	
				-6.379%
16100.00	1.40	508.27	506.87	
TRENCH TYPE		3		

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES
DRAWN T. ALVARADO
CHECKED S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE -	REPORT -	JOB P2020_33
VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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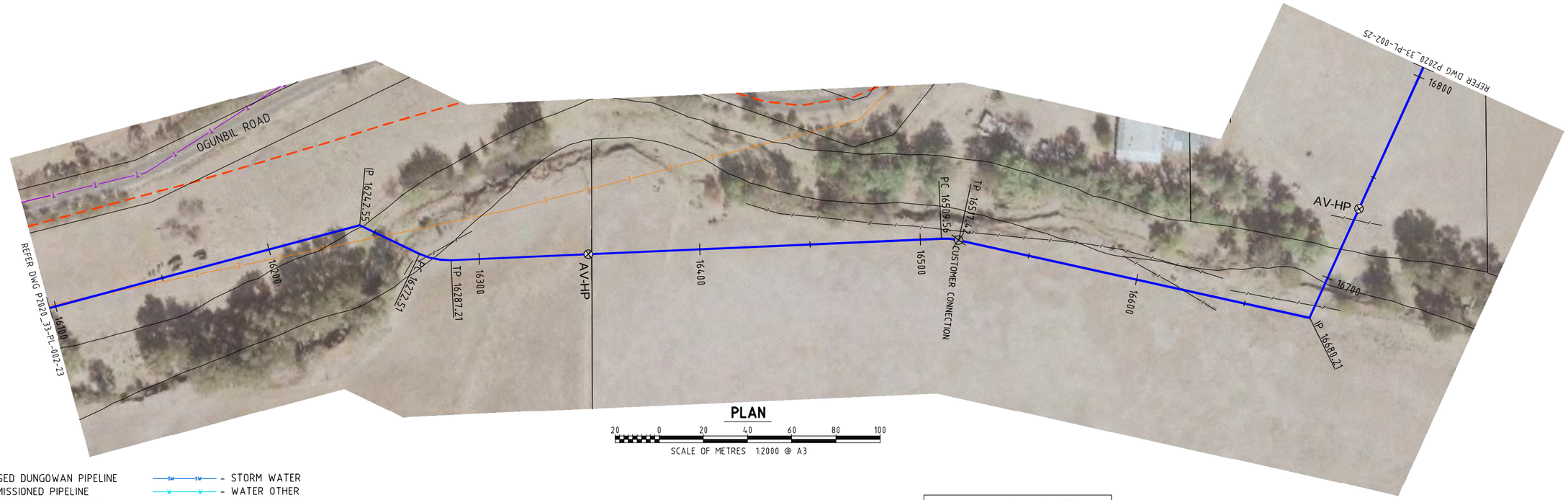
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH15400 to CH16100

REV. 1

PLAN No. P2020_33-PL-002-23



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
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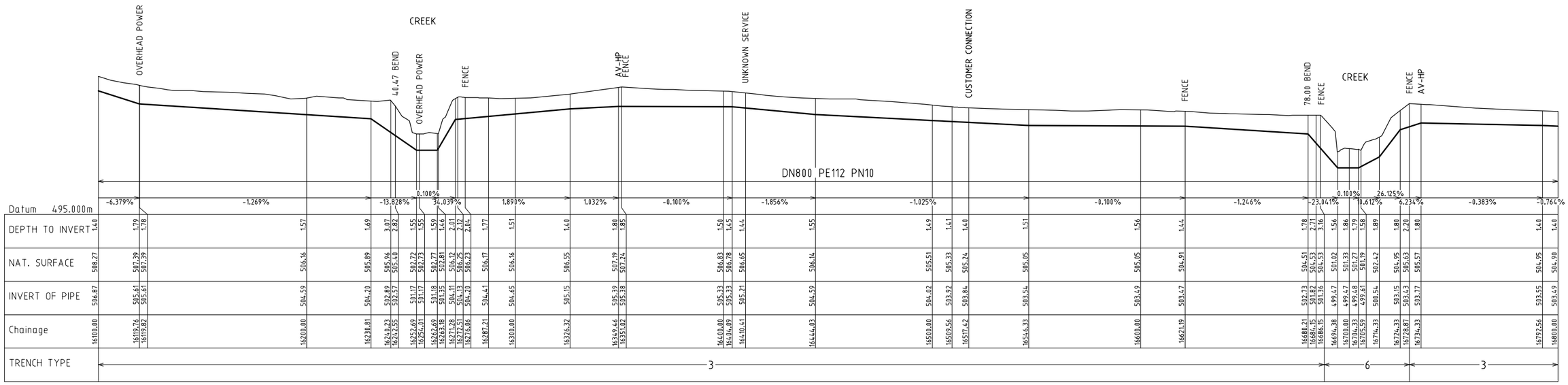
DIAL 1100 BEFORE YOU DIG



LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

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HORIZONTAL SCALE OF METRES 1:2000 @ A3

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LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
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DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES
DRAWN T. ALVARADO
CHECKED S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE -	REPORT -	JOB P2020_33
VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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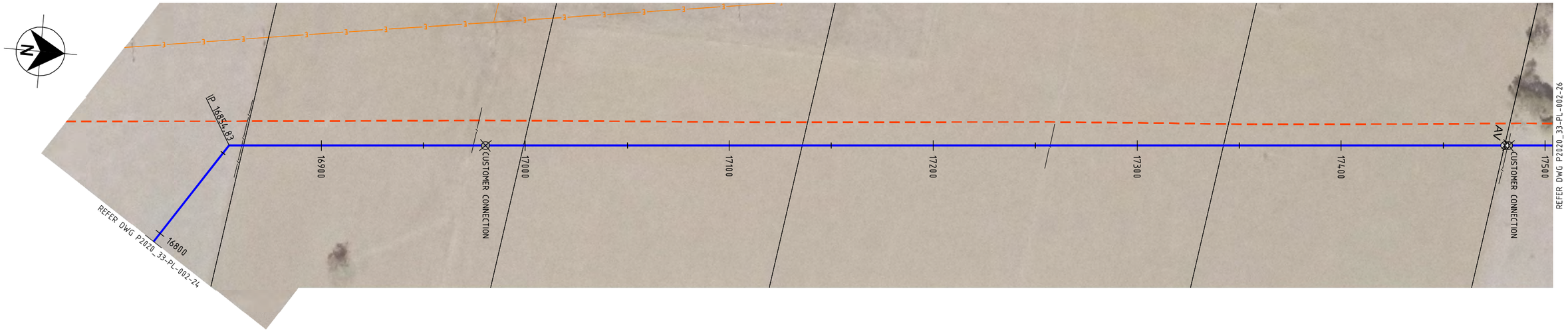
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH16100 to CH16800

REV. 1

PLAN No. P2020_33-PL-002-24



PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

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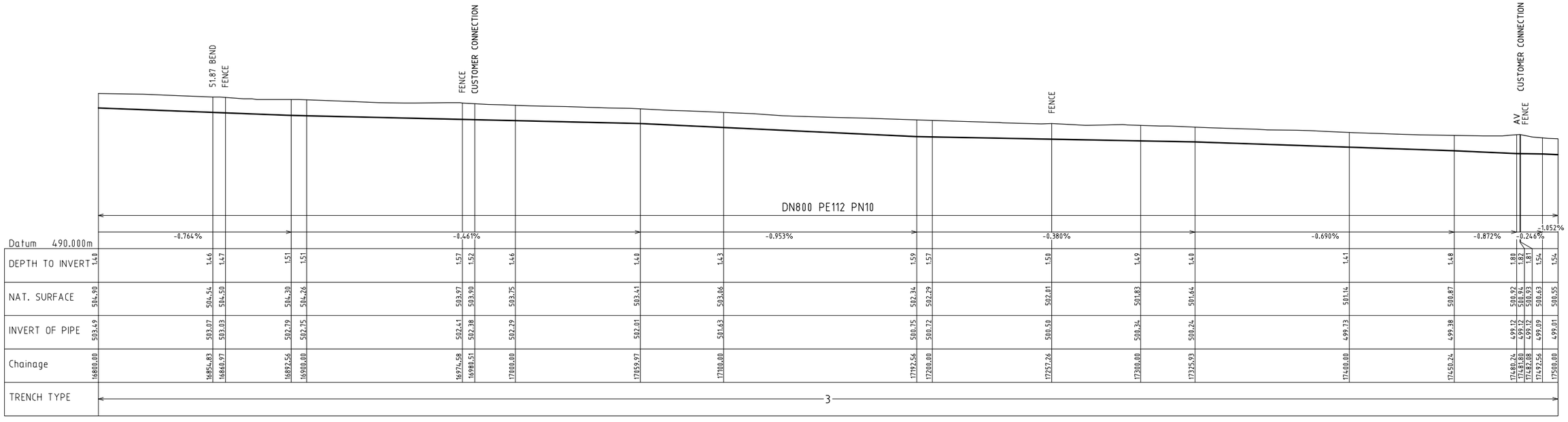
- CONTROL VALVE
- CUSTOMER CONNECTION



LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

DIAL BEFORE YOU DIG www.1100.com.au

ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED M. MARIES	SCALES AS SHOWN		SHEET A3
DRAWN T. ALVARADO	FILE -	REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION)	APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

WaterNSW

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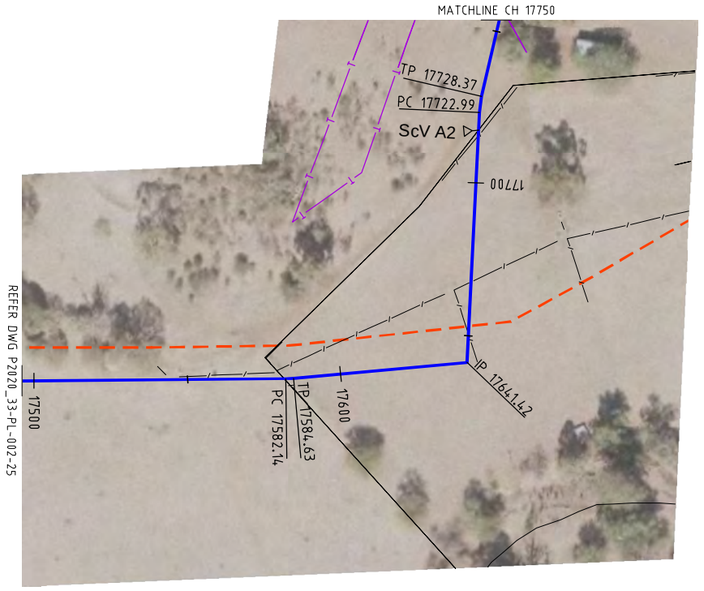
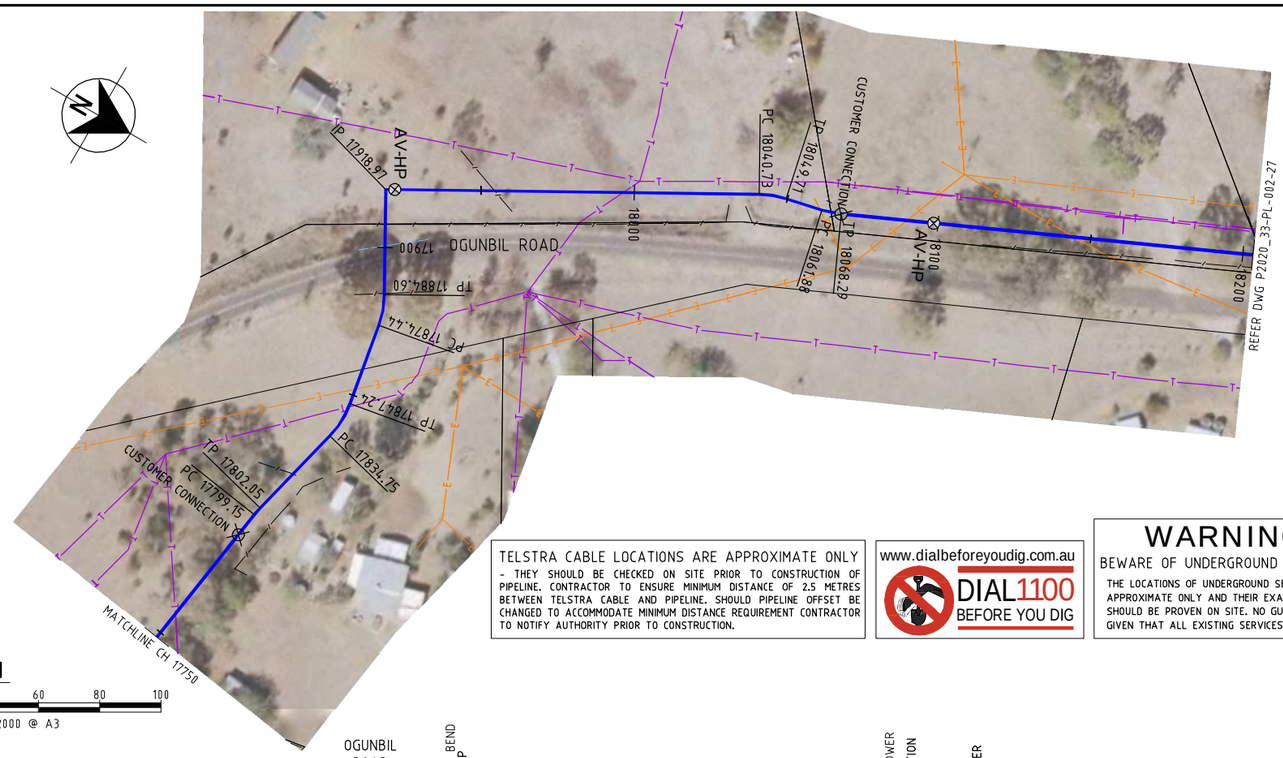
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH16800 to CH17500

REV.	PLAN No.
1	P2020_33-PL-002-25





TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY
- THEY SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION OF PIPELINE. CONTRACTOR TO ENSURE MINIMUM DISTANCE OF 2.5 METRES BETWEEN TELSTRA CABLE AND PIPELINE. SHOULD PIPELINE OFFSET BE CHANGED TO ACCOMMODATE MINIMUM DISTANCE REQUIREMENT CONTRACTOR TO NOTIFY AUTHORITY PRIOR TO CONSTRUCTION.

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WARNING
BEWARE OF UNDERGROUND SERVICES
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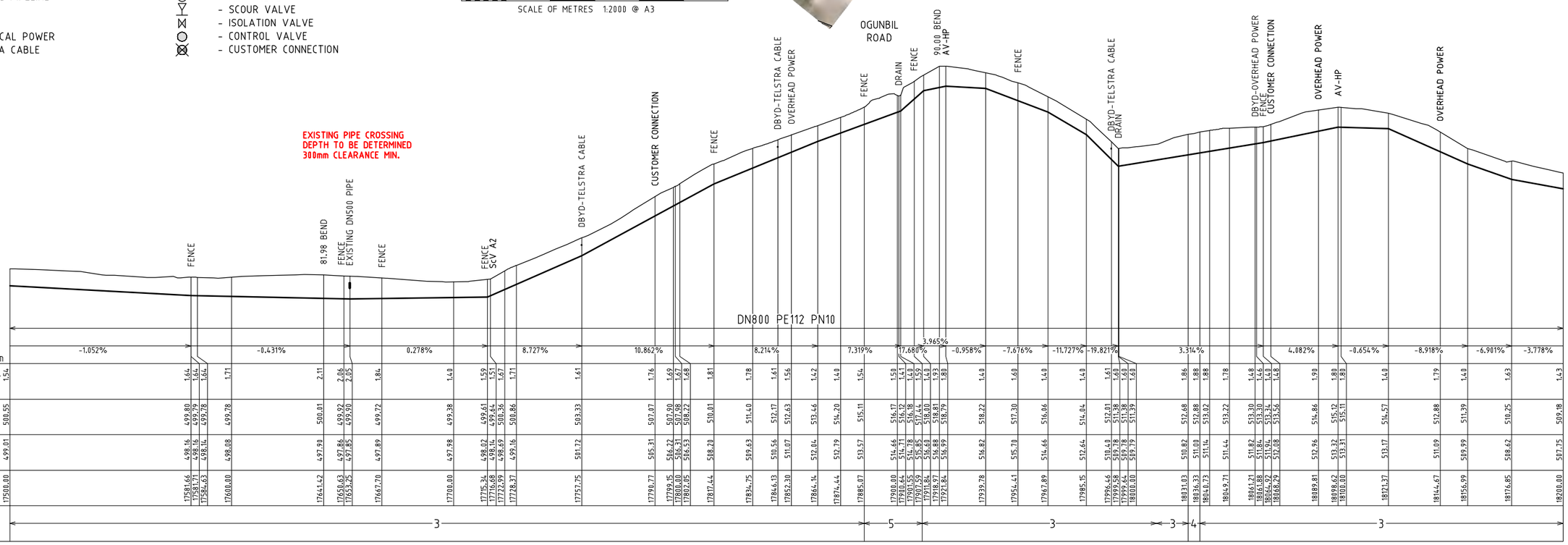
LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100
SCALE OF METRES 1:2000 @ A3



LONGITUDINAL SECTION

4 0 4 8 12 16 20
VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100
HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE: -	REPORT: -	JOB: P2020_33
VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

WaterNSW

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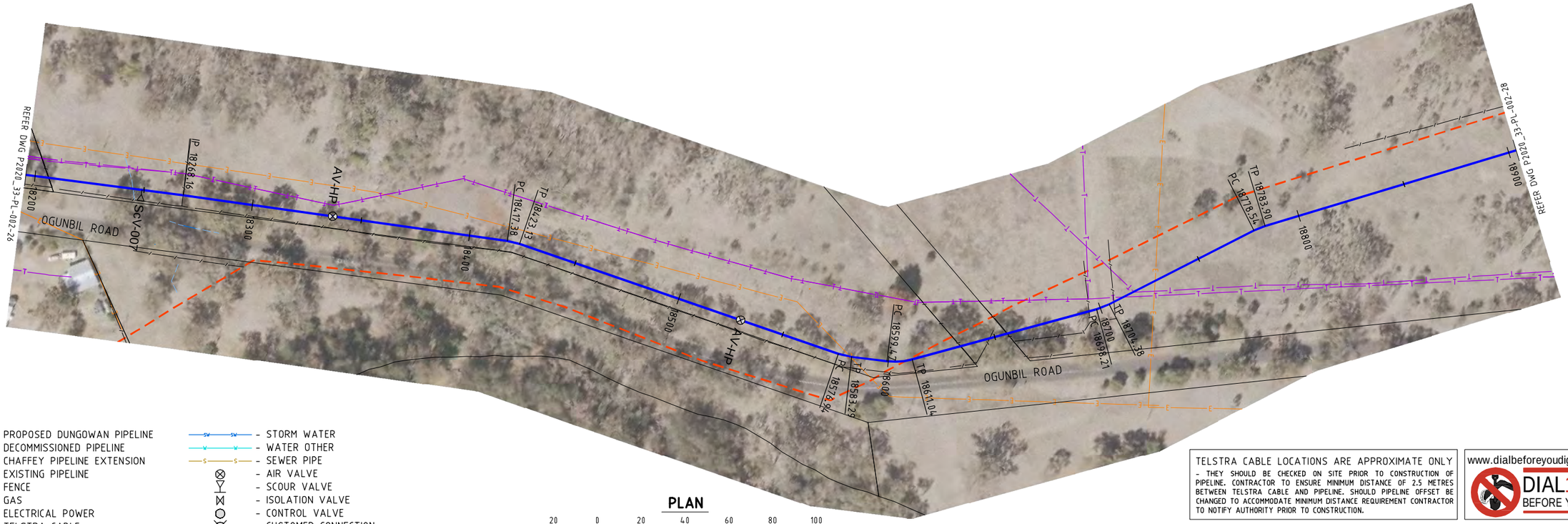
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH17500 to CH18200

REV. 1
PLAN No. P2020_33-PL-002-26



LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
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- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY

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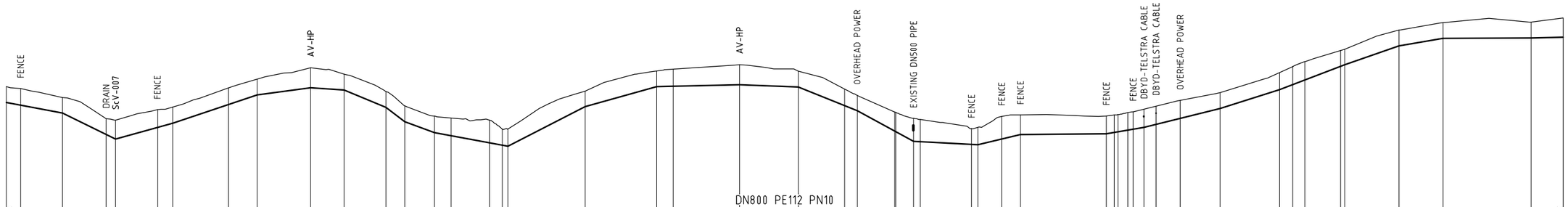
EXISTING PIPE CROSSING
DEPTH TO BE DETERMINED
300mm CLEARANCE MIN.



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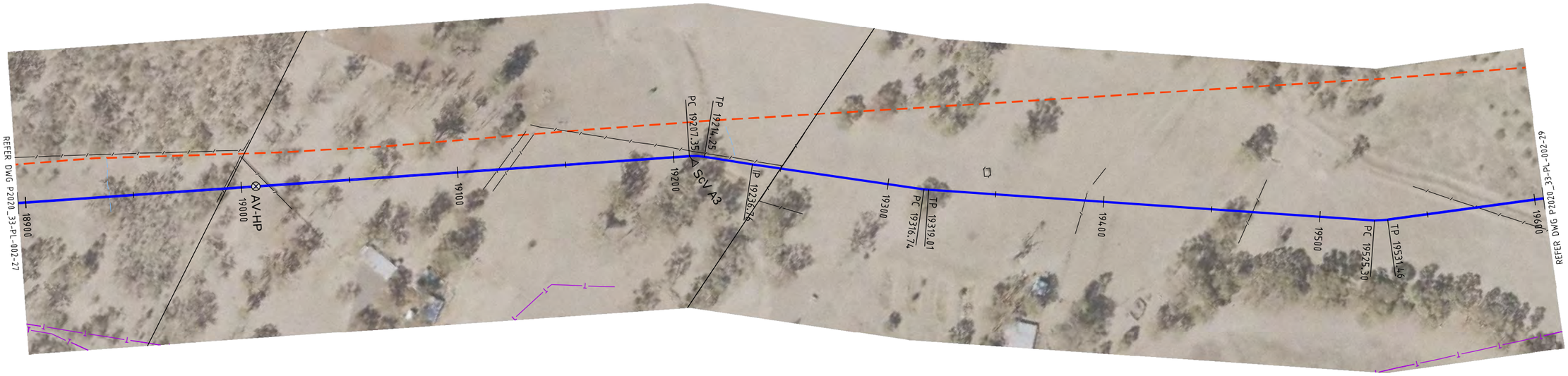

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

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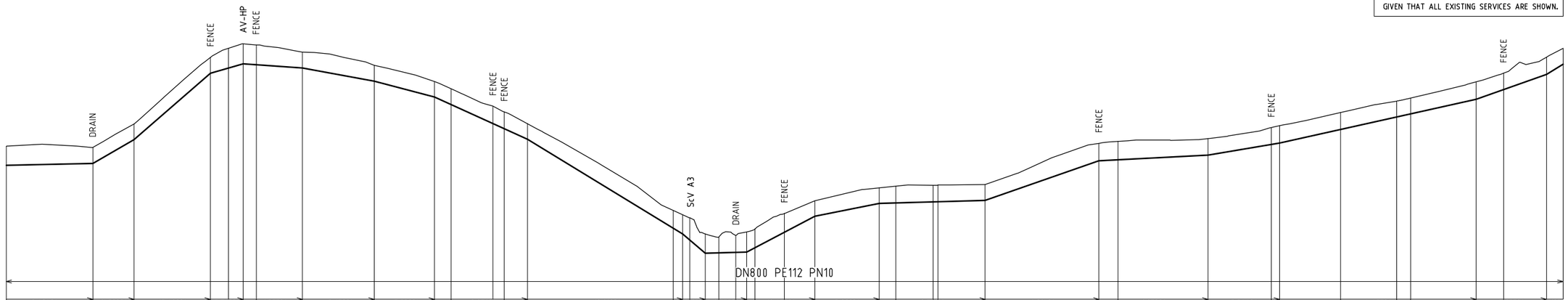
- CUSTOMER CONNECTION



Datum 500.000m

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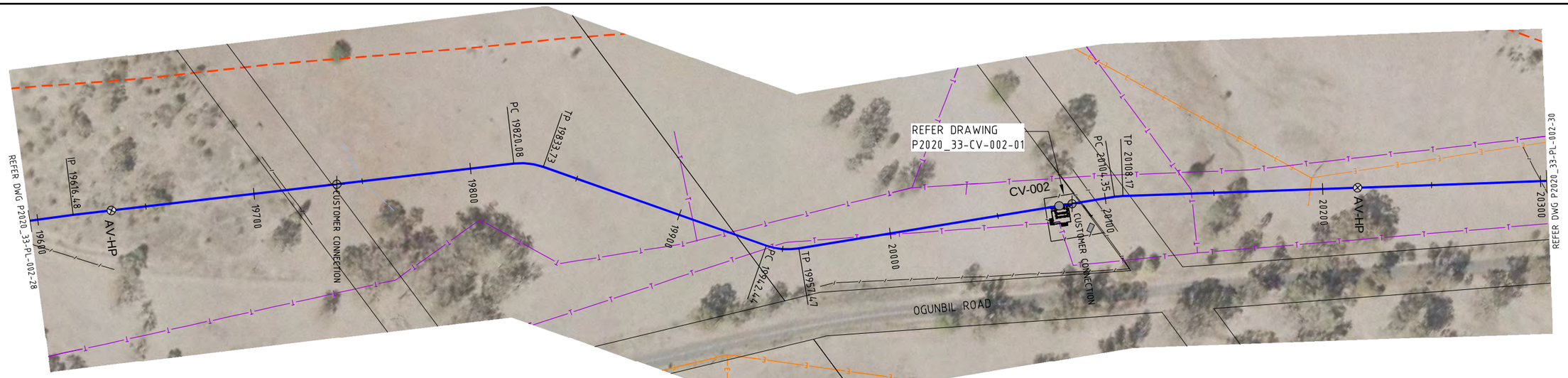

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

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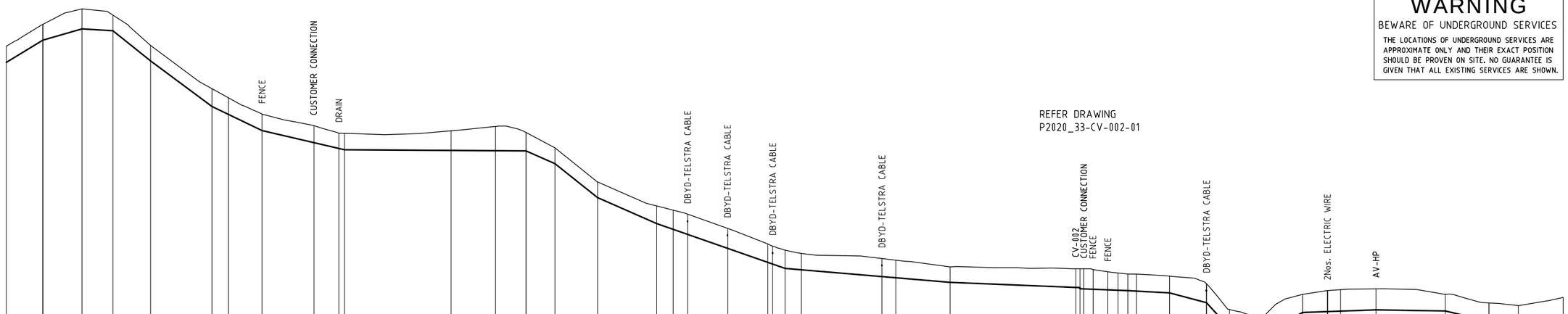

| Datum 495.000m | | |

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
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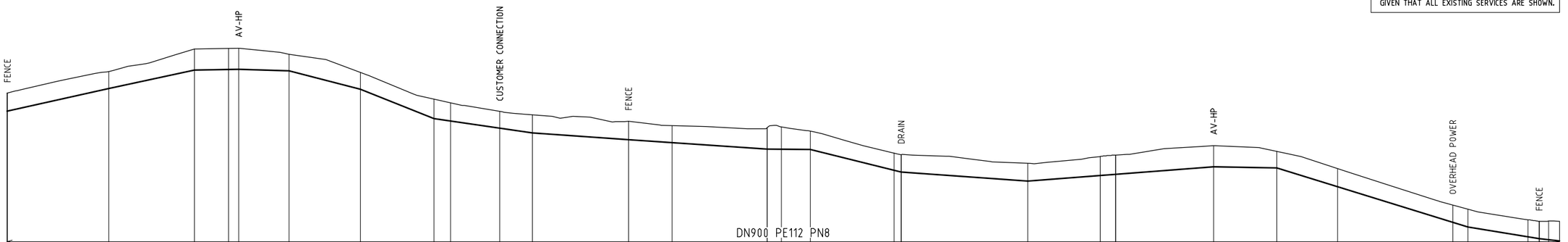

Datum 485.000m

Chainage	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE
20300.00	1.61	501.56	499.95
20300.38	1.61	501.57	499.96
20300.24	1.61	501.57	499.96
20346.86	1.50	503.49	501.99
20386.55	1.98	505.52	503.62
20400.00	1.90	505.59	503.69
20404.45	1.90	505.60	503.70
20427.18	1.50	505.07	503.57
20459.44	1.50	503.42	501.92
20492.56	1.77	501.03	499.26
20500.00	1.65	500.70	499.04
20522.49	1.52	499.91	498.40
20537.01	1.65	499.62	497.97
20580.35	1.68	499.04	497.36
20600.00	1.54	498.64	497.10
20642.74	1.92	498.44	496.52
20642.80	1.93	498.45	496.52
20643.26	2.00	498.51	496.51
20662.34	1.65	498.14	496.49
20700.00	1.57	496.18	494.61
20703.22	1.59	496.03	494.45
20703.28	1.59	496.03	494.44
20760.29	1.59	495.25	493.66
20793.03	1.71	495.87	494.16
20799.99	1.73	495.99	494.27
20800.00	1.73	495.99	494.27
20844.20	1.90	496.84	494.94
20872.56	1.50	496.32	494.82
20900.00	1.65	494.78	493.13
20952.01	1.55	491.48	489.94
20958.80	1.68	491.12	489.52
20985.93	1.53	490.77	488.66
20990.91	1.55	490.02	488.48
20991.96	1.55	490.02	488.48
20995.14	1.67	490.04	488.37
21000.00	1.77	490.02	488.25

TRENCH TYPE: 3 — 4 — 3

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES	SCALES: AS SHOWN		SHEET: A3
DRAWN: T. ALVARADO	FILE: -	REPORT: -	JOB: P2020_33
CHECKED: S. McKENZIE	VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

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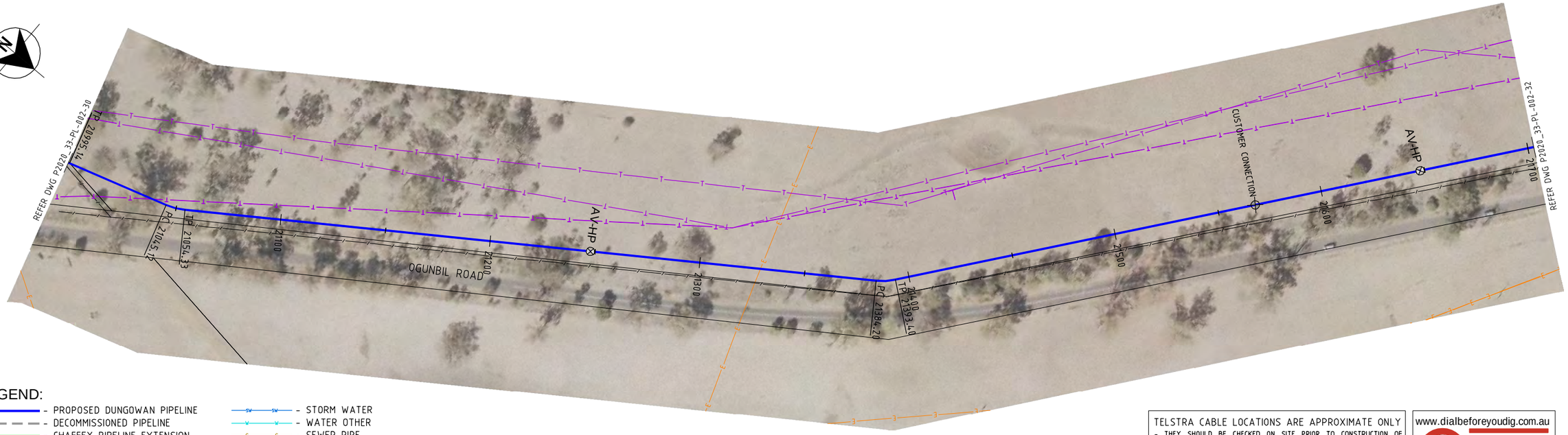
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH20300 to CH21000

REV.	PLAN No.
1	P2020_33-PL-002-30



LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
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- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
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- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY
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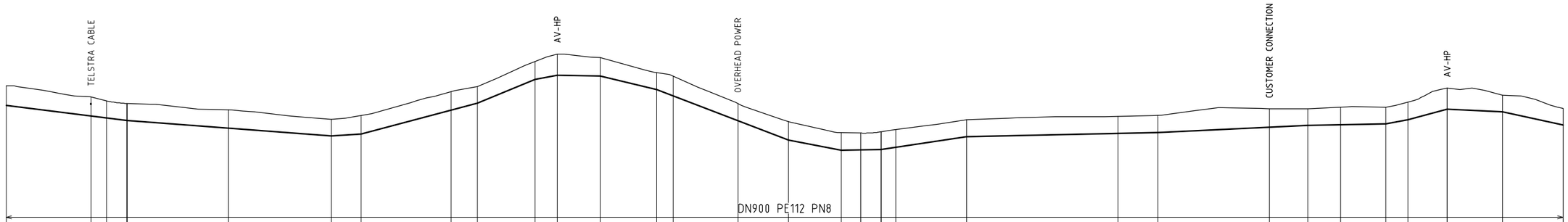

Datum 475.000m

| | | |

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
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PLAN

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SCALE OF METRES 1:2000 @ A3

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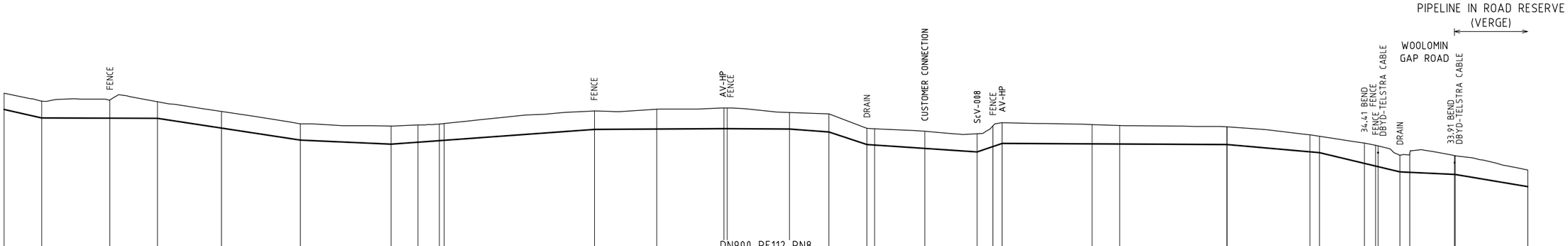

Chainage	Gradient	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE
21700.00	Datum 470.000m	1.59	487.98	486.48
21717.32	-4.454%	1.54	487.24	485.70
21718.69		1.66	487.33	485.67
21770.52	-0.100%	1.54	487.19	485.65
21808.00	-3.029%	1.53	486.29	484.76
21836.25		1.58	485.16	483.66
21877.77	-0.859%	1.65	484.95	483.30
21890.19		1.55	485.04	483.48
21900.00		1.51	485.13	483.63
21902.22		1.52	485.18	483.66
21971.28	1.447%	1.70	486.35	484.66
22000.00	0.100%	1.81	486.49	484.69
22030.76		1.98	486.62	484.72
22032.32	-0.100%	1.98	486.61	484.74
22060.83	-1.537%	1.58	486.19	484.69
22079.09	-6.650%	1.65	486.06	484.41
22096.45		1.58	484.75	483.25
22100.00		1.51	484.71	483.20
22123.04	-1.308%	1.56	484.47	482.90
22147.14	6.637%	1.65	484.24	482.59
22154.44		1.92	485.00	483.07
22158.53		1.98	485.24	483.34
22200.00	-0.100%	1.79	485.09	483.30
22212.65		1.72	485.01	483.29
22261.82	-1.710%	1.63	484.87	483.24
22261.88		1.63	484.87	483.24
22300.00		1.55	484.14	482.59
22314.33		1.59	484.01	482.51
22325.03	-4.751%	1.86	483.39	481.53
22330.19		1.98	483.18	481.29
22331.35		1.89	483.12	481.23
22341.31	-0.931%	1.58	482.26	480.76
22345.94		1.75	482.47	480.71
22366.40	-3.360%	1.72	482.24	480.52
22366.65		1.71	482.23	480.52
22400.00		1.52	480.92	479.40

TRENCH TYPE: 3 | 2 | 3

LONGITUDINAL SECTION

4 0 4 8 12 16 20

VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100

HORIZONTAL SCALE OF METRES 1:2000 @ A3

DIAL BEFORE YOU DIG www.1100.com.au

ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
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DRAWING STATUS:	UNDER REVIEW
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MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

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DRAWN T. ALVARADO	FILE - / REPORT -	JOB P2020_33
CHECKED S. McKENZIE	VERIFIED A. SINN (POSITION) / APPROVED P. SEMIANIW (POSITION)	APPROVED - (POSITION)

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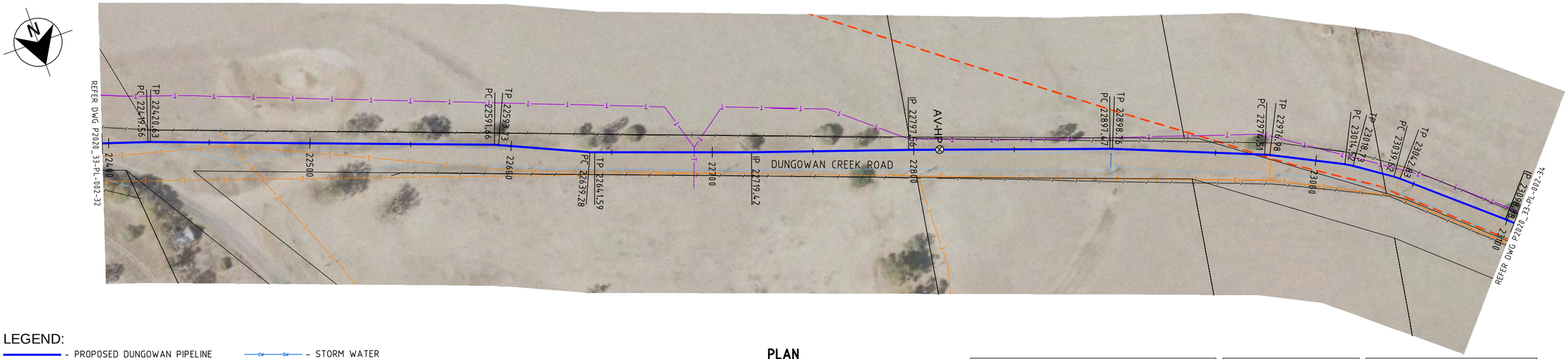
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH21700 to CH22400

REV.	PLAN No.
1	P2020_33-PL-002-32



LEGEND:

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- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

TELSTRA CABLE LOCATIONS ARE APPROXIMATE ONLY - THEY SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION OF PIPELINE. CONTRACTOR TO ENSURE MINIMUM DISTANCE OF 2.5 METRES BETWEEN TELSTRA CABLE AND PIPELINE. SHOULD PIPELINE OFFSET BE CHANGED TO ACCOMMODATE MINIMUM DISTANCE REQUIREMENT CONTRACTOR TO NOTIFY AUTHORITY PRIOR TO CONSTRUCTION.

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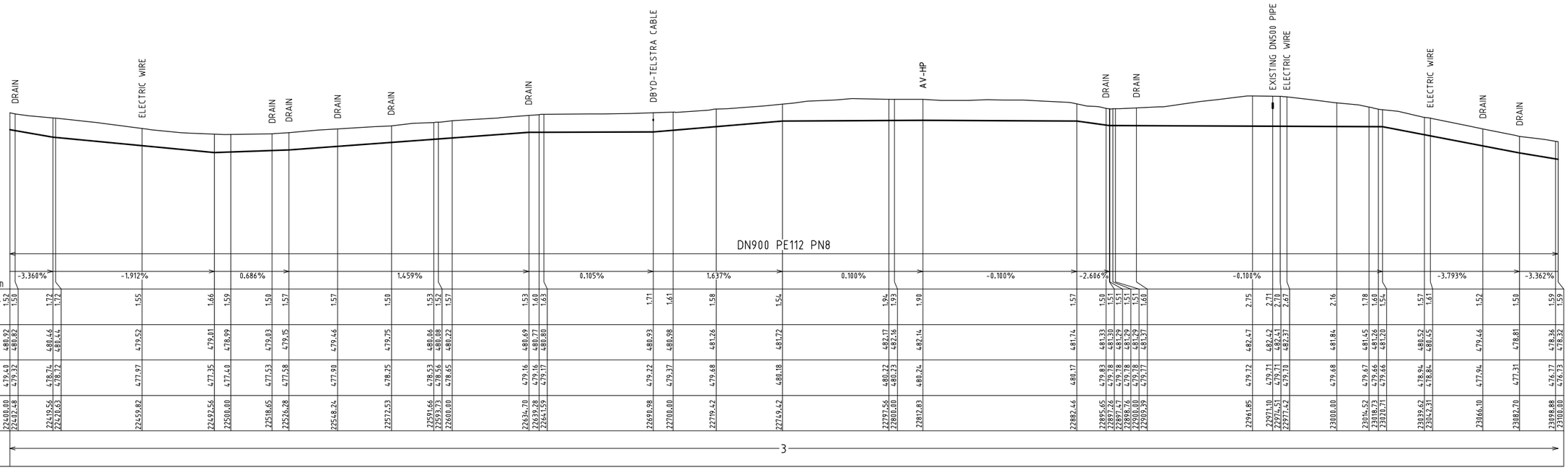
WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS 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.

EXISTING PIPE CROSSING DEPTH TO BE DETERMINED 300mm CLEARANCE MIN.

PIPELINE IN ROAD RESERVE (VERGE)



LONGITUDINAL SECTION

4 0 4 8 12 16 20 — VERTICAL SCALE OF METRES 1:400 @ A3

20 0 20 40 60 80 100 — HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES		SHEET
AS SHOWN		A3
FILE: -	REPORT: -	JOB: P2020_33
VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

WaterNSW

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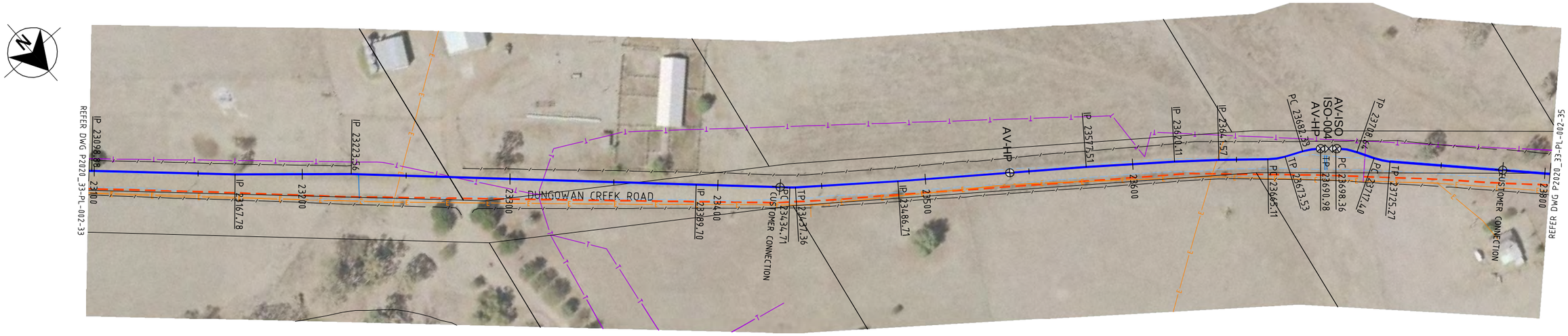
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION CH22400 to CH23100

REV. 1

PLAN No. P2020_33-PL-002-33



LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

PLAN

20 0 20 40 60 80 100

SCALE OF METRES 1:2000 @ A3

WARNING

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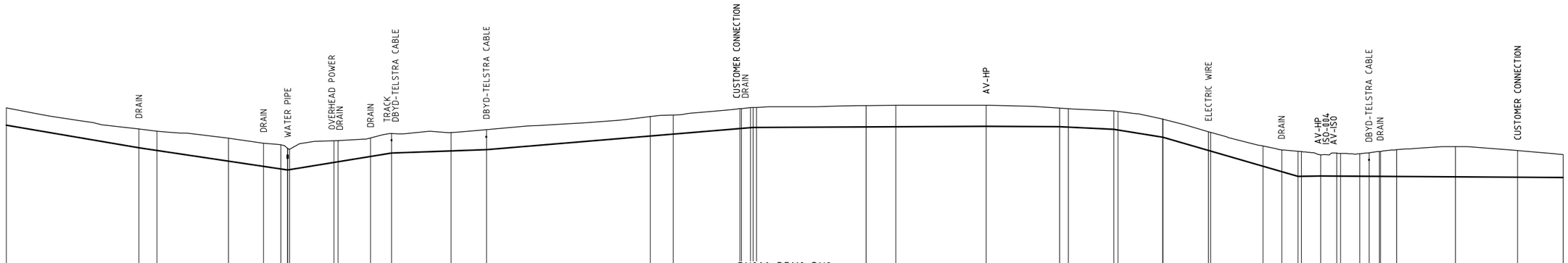
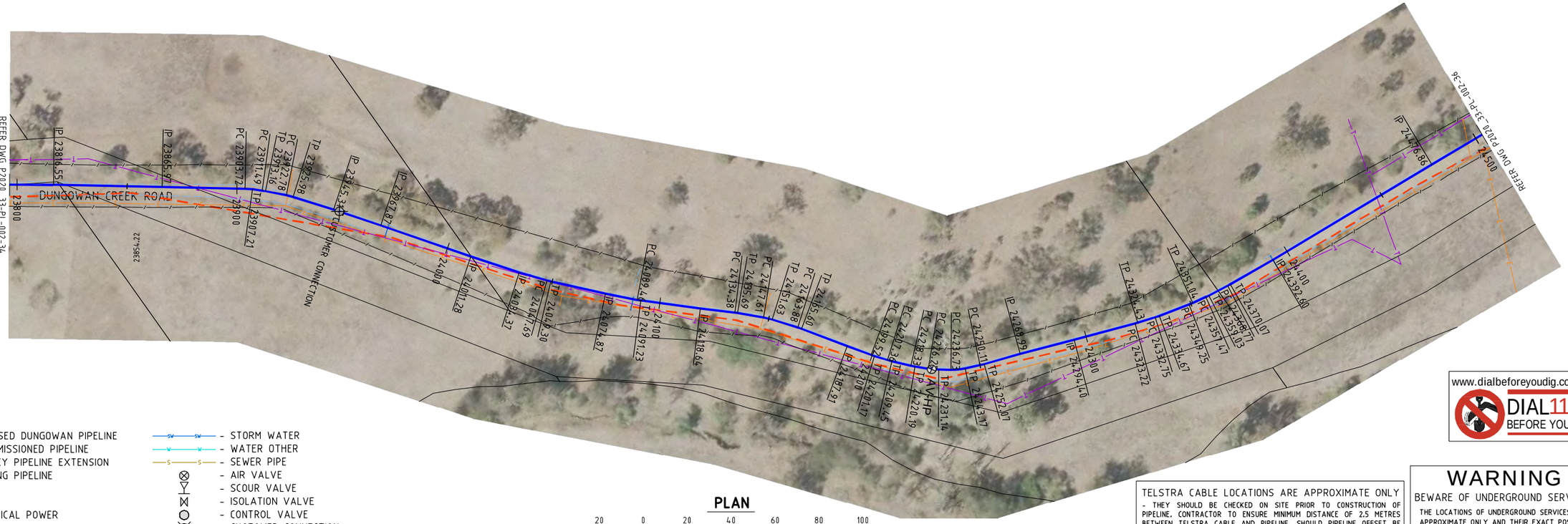
PIPELINE IN ROAD RESERVE (VERGE) — PIPELINE IN ROAD RESERVE (ROAD)



Datum 460.000m

| | | |



PLAN

SCALE OF METRES 1:2000 @ A3

LEGEND:

- PROPOSED DUNGOWAN PIPELINE
- DECOMMISSIONED PIPELINE
- CHAFFEY PIPELINE EXTENSION
- EXISTING PIPELINE
- FENCE
- GAS
- ELECTRICAL POWER
- TELSTRA CABLE
- STORM WATER
- WATER OTHER
- SEWER PIPE
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- CUSTOMER CONNECTION

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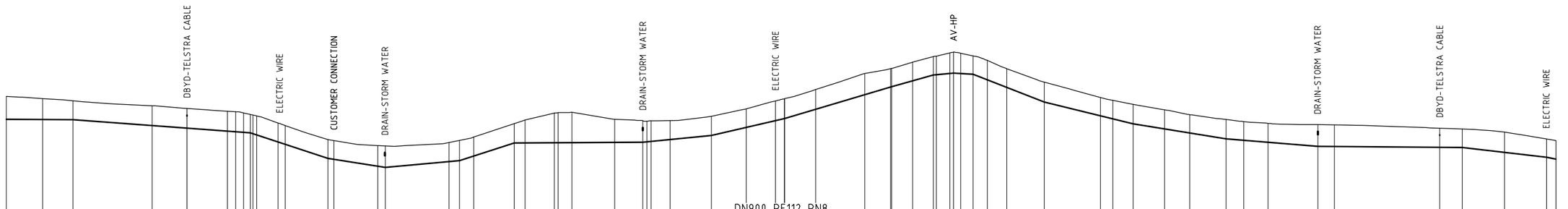
PIPELINE IN ROAD RESERVE
(ROAD)



Datum 460.000m

Chainage	Gradient	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE
23800.00		2.07	474.11	472.05
23816.55	-0.100%	1.88	473.91	472.03
23830.26		1.69	473.70	472.02
23865.97	-1.490%	1.77	473.26	471.48
23881.74		1.77	473.02	471.25
23900.00	-6.607%	1.80	472.77	470.98
23902.21		1.83	472.73	470.92
23902.72		1.85	472.72	470.88
23910.31		1.65	472.47	470.82
23911.49		1.67	472.42	470.74
23913.16		1.70	472.34	470.63
23922.78		1.71	472.29	470.00
23925.98		1.69	471.48	469.79
23945.31	-3.191%	1.70	470.21	468.51
23948.86		1.70	470.12	468.42
23967.87	1.857%	1.88	469.68	467.79
23971.97		1.95	469.84	467.89
24000.00		1.71	469.93	468.22
24004.81		1.82	470.13	468.31
24011.28	6.407%	1.71	470.44	468.72
24029.53		1.76	471.65	469.89
24034.37		2.06	471.96	469.90
24047.69		2.69	472.60	469.91
24049.30		2.72	472.63	469.91
24055.53		2.74	472.66	469.92
24074.87	0.100%	2.10	472.014	469.94
24087.63		1.95	471.90	469.95
24089.46		1.88	471.87	469.99
24091.23		1.87	471.83	470.03
24100.00		1.72	471.92	470.21
24118.64	2.064%	1.70	472.29	470.59
24136.38		1.65	472.97	471.32
24147.61	4.597%	1.77	473.70	471.92
24151.58		1.79	473.89	472.11
24151.63		1.79	473.90	472.11
24165.60	5.919%	1.77	474.71	472.94
24187.91		1.91	476.17	474.26
24199.52	5.663%	1.65	476.59	474.94
24200.80		1.65	476.62	474.97
24209.45		1.67	477.18	475.51
24218.74	1.832%	1.65	477.68	476.03
24220.19		1.69	477.74	476.06
24226.27		1.86	478.03	476.17
24227.94	-0.988%	1.98	478.10	476.10
24231.14		1.84	478.01	476.17
24236.73		1.65	477.77	476.11
24243.17		1.72	477.34	475.61
24252.87	-7.789%	1.67	476.59	474.92
24268.99		1.80	475.40	473.60
24294.40	-4.927%	1.66	474.01	472.35
24300.00		1.68	473.75	472.07
24309.12		1.75	473.38	471.62
24323.22	-3.251%	1.73	472.89	471.17
24336.67		1.66	472.46	470.79
24351.04		1.76	472.02	470.26
24359.03	-1.582%	1.78	471.84	470.14
24370.07		1.71	471.67	469.96
24392.60		1.95	471.55	469.60
24400.00	-0.150%	1.94	471.53	469.59
24447.61		1.71	471.23	469.52
24457.74		1.65	471.16	469.51
24476.86	-2.372%	1.82	470.87	469.05
24495.78	-3.611%	1.65	470.25	468.60
24500.00		1.65	470.11	468.45

TRENCH TYPE: 2

LONGITUDINAL SECTION

VERTICAL SCALE OF METRES 1:400 @ A3

HORIZONTAL SCALE OF METRES 1:2000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	CONSTRUCTION DET.
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	31/05/2021
PLOT DATE:	26/08/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES	SCALES: AS SHOWN		SHEET: A3
DRAWN: T. ALVARADO	FILE: -	REPORT: -	JOB: P2020_33
CHECKED: S. McKENZIE	VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

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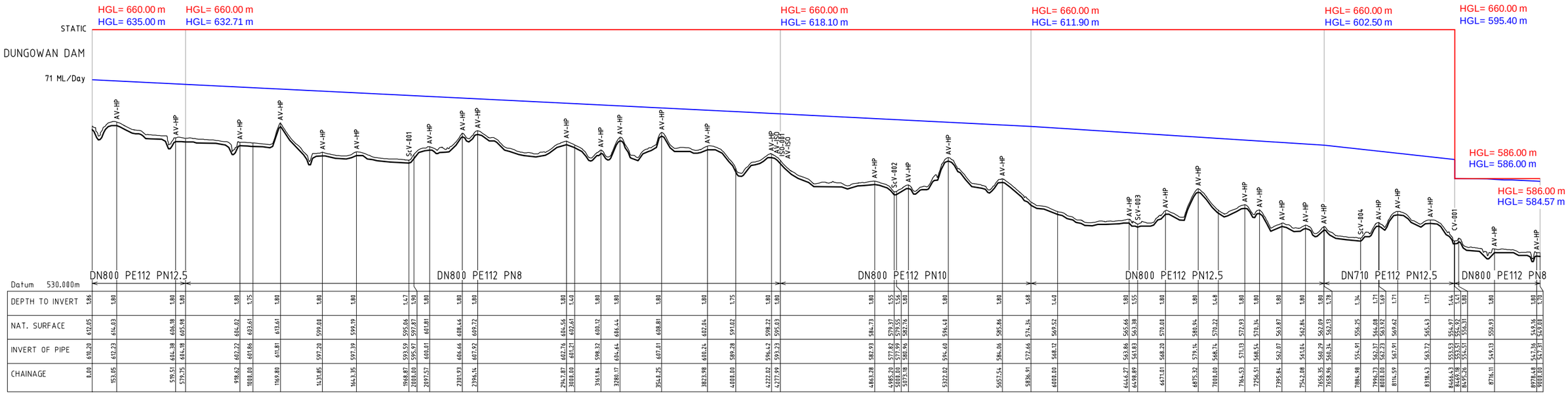
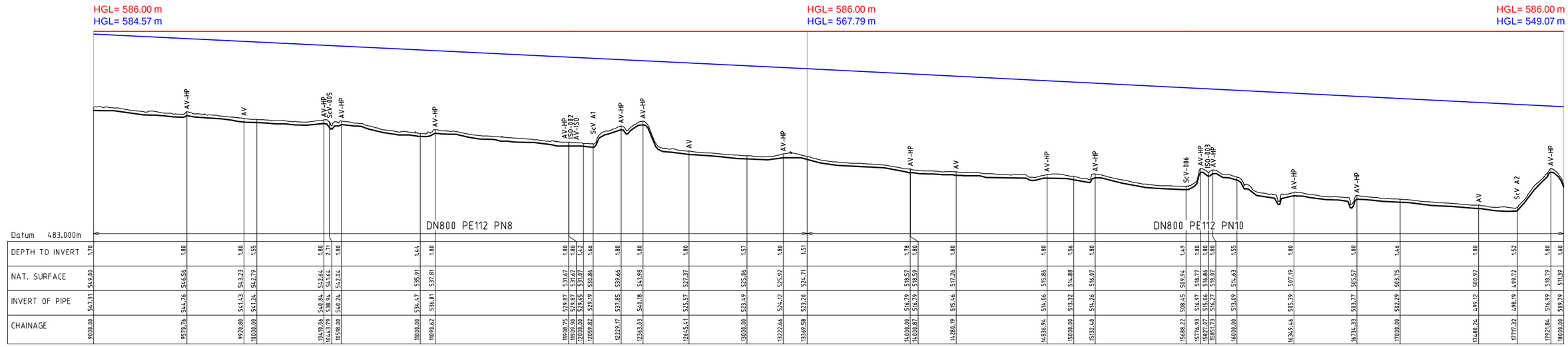
DUNGOWAN PIPELINE PROJECT

SP2 PLAN & LONGITUDINAL SECTION
CH23800 to CH24500

REV.	PLAN No.
1	P2020_33-PL-002-35





LEGEND:

- STATIC HGL - 0 ML/Day
- STEADY HGL - 71 ML/Day

TOTAL AIR VALVE (AV) = 92 Pcs
TOTAL SCOUR VALVE (Scv) = 14 Pcs
TOTAL ISOLATION VALVE (ISO) = 6 Pcs
TOTAL CONTROL VALVE (CV) = 2 Pcs

LONGITUDINAL SECTION

VERTICAL SCALE OF METRES 1:2000 @ A3

HORIZONTAL SCALE OF METRES 1:25000 @ A3

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ISSUED FOR CONSTRUCTION

SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	DATA TABLE OR GRAPH
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	25/05/2021
PLOT DATE:	10/06/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES	SHEET
AS SHOWN	A3
FILE: -	REPORT: -
JOB: P2020_33	
VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)
APPROVED: - (POSITION)	

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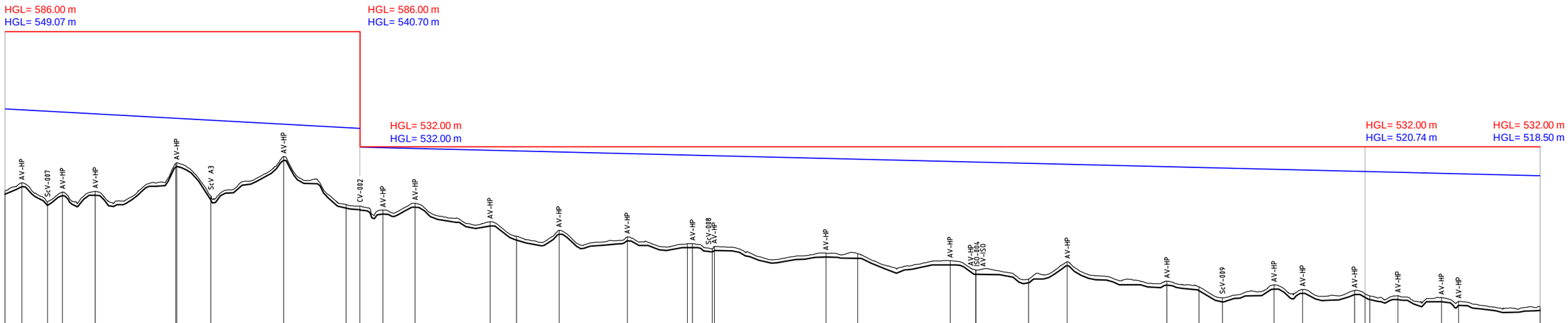
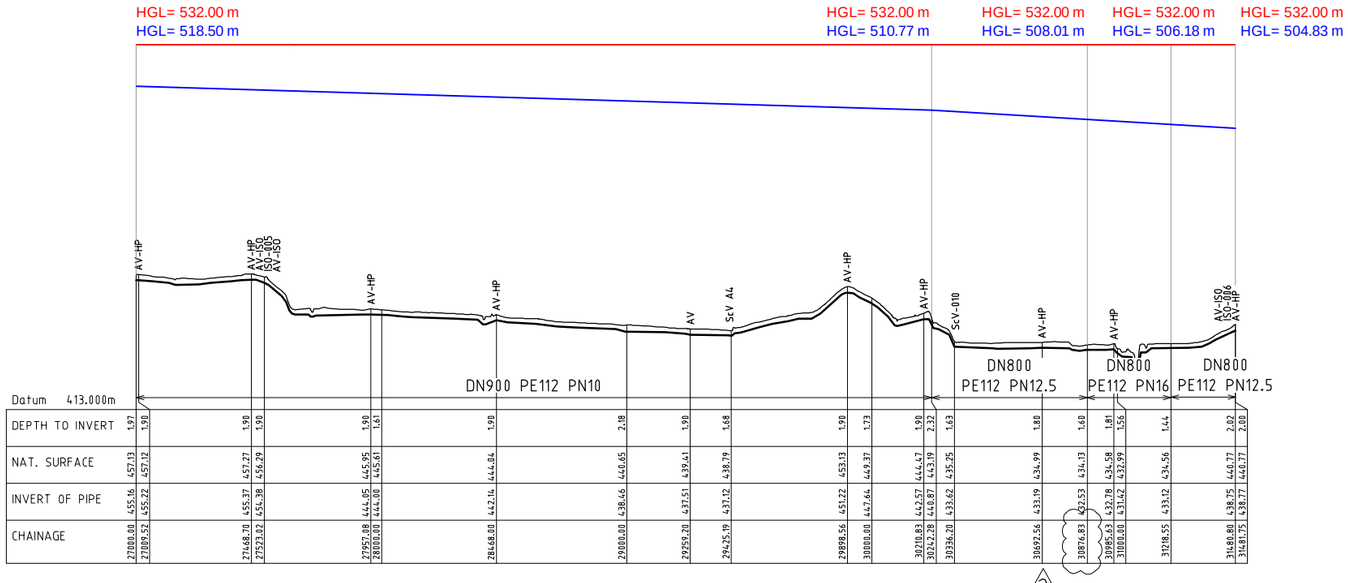
DUNGOWAN PIPELINE PROJECT

SP2 HYDRAULIC GRADE LINES
SHEET 1 OF 2

REV. 1

PLAN No. P2020_33-PL-002-47





LONGITUDINAL SECTION

VERTICAL SCALE OF METRES 1:2000 @ A3

HORIZONTAL SCALE OF METRES 1:25000 @ A3

LEGEND:

- STATIC HGL - 0 ML/Day
- STEADY HGL - 71 ML/Day

TOTAL AIR VALVE (AV) = 92 Pcs
TOTAL SCOUR VALVE (Scv) = 14 Pcs
TOTAL ISOLATION VALVE (ISO) = 6 Pcs
TOTAL CONTROL VALVE (CV) = 2 Pcs

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FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	DATA TABLE OR GRAPH
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	25/05/2021
PLOT DATE:	10/06/2021

MPC KINETIC

W3 Plus Consulting world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
2	REVISED AS PER CLIENT COMMENTS	PS	17.09.21
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES
DRAWN: T. ALVARADO
CHECKED: S. McKENZIE

SCALES	SHEET
AS SHOWN	A3

FILE	REPORT	JOB
-	-	P2020_33

VERIFIED	APPROVED	APPROVED
A. SINN	P. SEMIANIW	-
POSITION	POSITION	POSITION

WaterNSW

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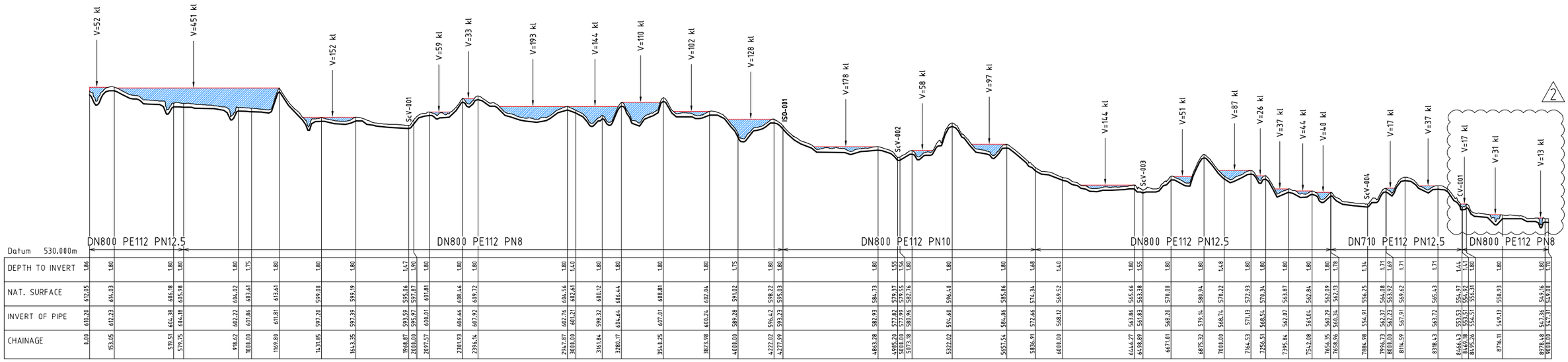
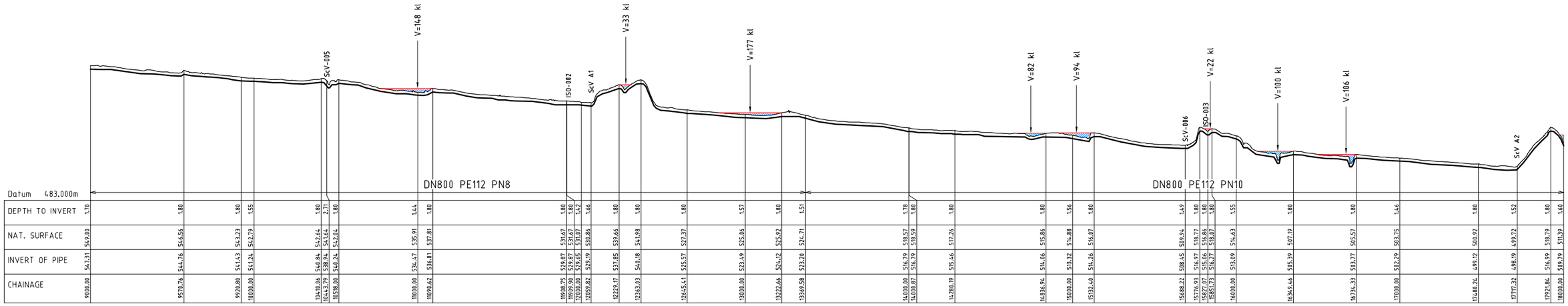
DUNGOWAN PIPELINE PROJECT

SP2 HYDRAULIC GRADE LINES
SHEET 2 OF 2

REV. 2

PLAN No. P2020_33-PL-002-48





LEGEND:

- RESIDUAL PRESSURE IN PIPELINE AFTER DRAINING

LONGITUDINAL SECTION

VERTICAL SCALE OF METRES 1:2000 @ A3

HORIZONTAL SCALE OF METRES 1:25000 @ A3

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SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	DATA TABLE OR GRAPH
DRAWING STATUS:	UNDER REVIEW
LAST AMENDED:	25/05/2021
PLOT DATE:	10/06/2021

MPC KINETIC

W3 Plus Consulting — world wide water plus

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2	REVISED AS PER CLIENT COMMENTS	PS	17.09.21
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES	SCALES: AS SHOWN		SHEET: A3
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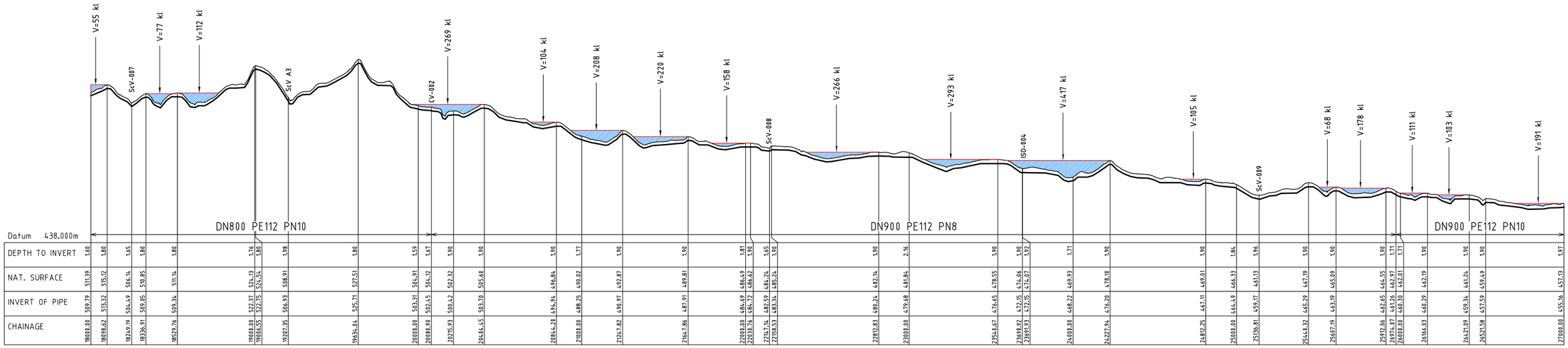
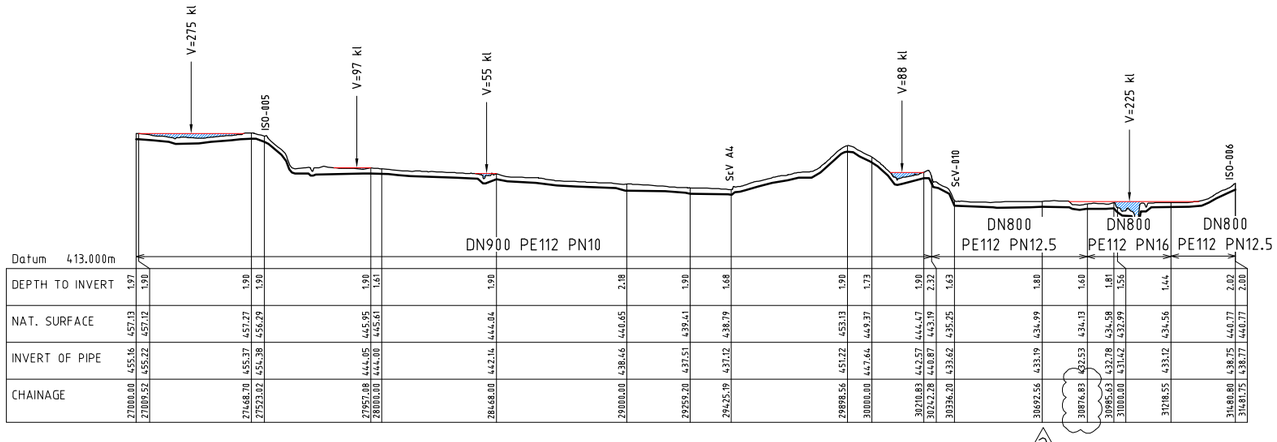
DUNGOWAN PIPELINE PROJECT

SP2 PONDING DIAGRAM SHEET 1 OF 2

REV. 2

PLAN No. P2020_33-PL-002-49





LONGITUDINAL SECTION

LEGEND:

- RESIDUAL PRESSURE IN PIPELINE AFTER DRAINING

VERTICAL SCALE OF METRES 1:2000 @ A3

HORIZONTAL SCALE OF METRES 1:25000 @ A3

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SYSTEM:	WNSW TO PROVIDE
FACILITY NAME:	WNSW TO PROVIDE
LOCATION CODE:	WNSW TO PROVIDE
DISCIPLINE:	CIVIL
DRAWING TYPE:	DATA TABLE OR GRAPH
DRAWING STATUS:	UNDER REVIEW
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MPC KINETIC

W3 Plus Consulting — world wide water plus

REVISION	DETAILS OF AMENDMENT	APP'D	DATE
2	REVISED AS PER CLIENT COMMENTS	PS	17.09.21
1	ISSUED FOR CONSTRUCTION	PS	23.08.21

DESIGNED: M. MARIES	SCALES: AS SHOWN		SHEET: A3
DRAWN: T. ALVARADO	FILE: -	REPORT: -	JOB: P2020_33
CHECKED: S. McKENZIE	VERIFIED: A. SINN (POSITION)	APPROVED: P. SEMIANIW (POSITION)	APPROVED: - (POSITION)

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DUNGOWAN PIPELINE PROJECT

SP2 PONDING DIAGRAM
SHEET 2 OF 2

REV. 2

PLAN No. P2020_33-PL-002-50