

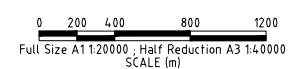
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE



LOCALITY PLAN
SCALE: 1:20,000



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



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CAD FILE NAME: \\BECA.NET\PROJECTS\6584\6584\39\CAD\IR602-R-PBID-PL-G-0001.DWG

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PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
COVER SHEET

PLAN TYPE:	GENERAL
SCALE:	1:20000
DRAWING NUMBER	
R0602-R-PBID-PL-G-0001	T0
NUMERAL	REV

DRAWING LIST

DRAWING No.	DRAWING TITLE
R0602-R-PBID-PL-G-0001	COVER SHEET
R0602-R-PBID-PL-G-0002	DRAWING LIST AND LEGEND
R0602-R-PBID-PL-G-0003	GENERAL NOTES AND SCHEDULES
R0602-R-PBID-PL-C-0100	KEY PLAN
R0602-R-PBID-PL-C-0101	PLAN AND LONGITUDINAL SECTION SHEET 1
R0602-R-PBID-PL-C-0102	PLAN AND LONGITUDINAL SECTION SHEET 2
R0602-R-PBID-PL-C-0103	PLAN AND LONGITUDINAL SECTION SHEET 3
R0602-R-PBID-PL-C-0104	PLAN AND LONGITUDINAL SECTION SHEET 4
R0602-R-PBID-PL-C-0105	PLAN AND LONGITUDINAL SECTION SHEET 5
R0602-R-PBID-PL-C-0106	PLAN AND LONGITUDINAL SECTION SHEET 6
R0602-R-PBID-PL-C-0107	PLAN AND LONGITUDINAL SECTION SHEET 7
R0602-R-PBID-PL-C-0108	PLAN AND LONGITUDINAL SECTION SHEET 8
R0602-R-PBID-PL-C-0109	PLAN AND LONGITUDINAL SECTION SHEET 9
R0602-R-PBID-PL-C-0110	PLAN AND LONGITUDINAL SECTION SHEET 10
R0602-R-PBID-PL-C-0111	PLAN AND LONGITUDINAL SECTION SHEET 11
R0602-R-PBID-PL-C-0112	PLAN AND LONGITUDINAL SECTION SHEET 12
R0602-R-PBID-PL-C-0113	PLAN AND LONGITUDINAL SECTION SHEET 13
R0602-R-PBID-PL-C-0114	PLAN AND LONGITUDINAL SECTION SHEET 14
R0602-R-PBID-PL-C-0115	PLAN AND LONGITUDINAL SECTION SHEET 15
R0602-R-PBID-PL-C-0116	PLAN AND LONGITUDINAL SECTION SHEET 16
R0602-R-PBID-PL-C-0117	PLAN AND LONGITUDINAL SECTION SHEET 17
R0602-R-PBID-PL-C-0118	PLAN AND LONGITUDINAL SECTION SHEET 18
R0602-R-PBID-PL-C-0119	PLAN AND LONGITUDINAL SECTION SHEET 19
R0602-R-PBID-PL-C-0120	PLAN AND LONGITUDINAL SECTION SHEET 20
R0602-R-PBID-PL-C-0121	PLAN AND LONGITUDINAL SECTION SHEET 21
R0602-R-PBID-PL-C-0122	PLAN AND LONGITUDINAL SECTION SHEET 22
R0602-R-PBID-PL-C-0123	PLAN AND LONGITUDINAL SECTION SHEET 23
R0602-R-PBID-PL-C-0124	PLAN AND LONGITUDINAL SECTION SHEET 24
R0602-R-PBID-PL-C-0125	PLAN AND LONGITUDINAL SECTION SHEET 25
R0602-R-PBID-PL-C-0126	PLAN AND LONGITUDINAL SECTION SHEET 26
R0602-R-PBID-PL-C-0301	AIR AND DRAIN VALVE DETAILS
R0602-R-PBID-PL-C-0303	SCOUR VALVE DETAIL
R0602-R-PBID-PL-C-0311	ISOLATION VALVE DETAILS SHEET 1
R0602-R-PBID-PL-C-0312	ISOLATION VALVE DETAILS SHEET 2
R0602-R-PBID-PL-C-0313	ISOLATION VALVE DETAILS SHEET 3
R0602-R-PBID-PL-C-0314	ISOLATION VALVE DETAILS SHEET 4

DRAWING LIST

DRAWING No.	DRAWING TITLE
R0602-R-PBID-PL-C-0401	TYPICAL OFFTAKE DETAILS
R0602-R-PBID-PL-C-0402	SCHOOL AND CFA OFFTAKE DETAILS
R0602-R-PBID-PL-C-0411	PROPERTY OUTLET ENCLOSURE DETAILS
R0602-R-PBID-PL-C-0501	THRUST BLOCK DETAILS
R0602-R-PBID-PL-C-0502	THRUST WALL DETAILS
R0602-R-PBID-PL-C-0601	TRENCH DETAILS

LEGEND

PROPOSED PARWAN TO BALLIANG IRRIGATION DISTRICT (PBID) PIPELINE	
EXISTING RECYCLED WATER MAIN	
EXISTING WATER MAIN	
EXISTING SEWER RISING MAIN	
EXISTING UNDERGROUND ELECTRIC CABLE	
EXISTING TELSTRA	
EXISTING OVERHEAD POWER LINES	
EXISTING GAS	
EXISTING FIBRE OPTIC CABLE	
EXISTING STORMWATER	
EXISTING UNKNOWN SERVICE	
EXISTING OPEN DRAINAGE CHANNEL	
EXISTING POWERPOLE	
EXISTING TELSTRA PIT	
EXISTING TELSTRA PILLAR	
EXTENT OF EXISTING TREES	
EXISTING FENCING	
PROPOSED OFFTAKE	
PROPERTY BOUNDARY	
EXISTING ELECTRICITY OVERHEAD NO GO ZONE	
EXISTING EASEMENT	
PROPOSED EASEMENT	
NATIVE TREE	
NATIVE VEGETATION POINT	
CONSTRUCTION BOUNDARY	

REFERENCE DRAWING LIST

DRAWING No.	DRAWING TITLE	REVISION
MRWA-W-201	TRENCHFILL	3
MRWA-W-202	TRENCH DIMENSIONS AND ARRANGEMENTS	3
MRWA-W-203	EMBEDMENT	2
MRWA-W-209	TRENCH BULKHEADS AND TRENCHSTOPS	2
MRWA-W-300	VALVE AND HYDRANT MARKING ARRANGEMENT	3
MRWA-W-301	VALVE AND HYDRANT MARKING DETAILS	3
MRWA-W-302	VALVE SURFACE ARRANGEMENTS	3
MRWA-W-303	HYDRANT AND WASHOUT SURFACE ARRANGEMENTS	3
MRWA-W-305	HYDRANT AND AIR VALVE FITTING DETAILS	3
MRWA-W-306A	FLANGE ARRANGEMENTS	3
MRWA-W-306B	FLANGE DETAILS AND FLANGE FASTENING REQUIREMENTS	3
MRWA-W-307	SCOUR ARRANGEMENTS CWV AND YVW	3
DRAWING 1B	20mm RECYCLED WATER RESIDENTIAL (DRY TAPPING)	1



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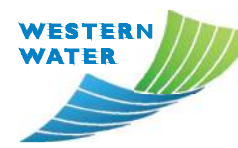
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PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
DRAWING LIST AND LEGEND

PLAN TYPE:	GENERAL
SCALE:	NTS
DRAWING NUMBER	
R0602-R-PBID-PL-G-0002	T0
NUMERAL	REV

GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- ALL LEVELS ARE EXPRESSED IN METRES ABOVE AUSTRALIAN HEIGHT DATUM (AHD).
- COORDINATES ARE TO MAP GRID OF AUSTRALIA 1994 (MGA 55).
- AERIAL IMAGES SOURCED FROM NEARMAP.
- ROAD OPENING PERMITS SHALL BE OBTAINED PRIOR TO ANY WORKS IN ROAD RESERVES COMMENCING AND ALL REQUIREMENTS SHALL BE COMPLIED WITH.
- THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION.
- OFFSETS AND CHAINAGES SHOWN ARE DISTANCES TO INTERSECTIONS OF CENTRELINES OF PIPE UNLESS NOTED OTHERWISE.

REFERENCE CODES AND STANDARDS

- ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS, CODES OF PRACTICE, AND INDUSTRY GUIDELINES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING (REFER ALSO TO MRWA PORTAL AT WWW.MRWA.COM.AU): THE CONTRACTOR SHALL ENSURE THAT THEY ARE CONVERSANT WITH ALL CURRENT REVISIONS, AMENDMENTS AND UPDATES THAT WESTERN WATER HAS MADE TO THEIR STANDARDS.
 - WESTERN WATER 'WATER DESIGN STANDARD' SUPPLEMENTARY TO THE WSA 03-2011-3.1 MRWA EDITION 2.0
 - WSA 03-2011 3.1 WATER SUPPLY CODE OF AUSTRALIA (MRWA EDITION 2.0)
 - MRWA BACKFILL SPECIFICATION 04-03.1
 - WSAA PRODUCT SPECIFICATIONS 2020

SURVEY, SET OUT AND ASSET RECORDING

- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE PROJECT SET OUT IS CONSISTENT WITH THE DESIGN.
- COORDINATES ARE TO PIPELINE INTERSECTION POINT UNLESS OTHERWISE NOTED.
- TBM AND CONTROL POINTS ARE TO BE MAINTAINED AND PROTECTED AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL ENGAGE A SUITABLY QUALIFIED AND EXPERIENCED SURVEYOR TO UNDERTAKE ASSET RECORDING OF THE WORKS. ALL SURVEY WORKS AND DATA TO BE SUBMITTED IN ACCORDANCE WITH THE RELEVANT CODES AND STANDARD.
- ASSET RECORDING SHALL MEET THE ACCEPTABLE REQUIREMENTS FOR WESTERN WATER'S GIS SYSTEM.

PRODUCTS AND MATERIALS

- MARKER POSTS SHALL BE INSTALLED AT ALL VALVES AND BENDS IN ACCORDANCE WITH DRAWINGS MRWA-W-300 AND MRWA-W-301.
- VALVE SURROUNDS, COVERS AND SPINDLES SHALL BE IN ACCORDANCE WITH DRAWING MRWA-W-302.
- ALL SURFACE COVERS SHALL BE MARKED 'NON-DRINKING WATER' OR 'NDW' UNLESS OTHERWISE NOTED.
- FLANGE AND FLANGE BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH DRAWING MRWA-W-306A AND MRWA-W-306B.
- ALL FLANGES TO BE PN16 TO AS4087:2011.
- ALL BURIED FLANGES FROM FITTINGS AND PIPES TO BE DENSO WRAPPED OR EQUIVALENT.
- VALVES SHALL BE ANTICLOCKWISE CLOSING.
- ONLY PRODUCTS APPROVED BY WESTERN WATER SHALL BE USED.
- PE TO BE BUTT WELDED AND FLANGED.
- ALL TEE'S TO BE FLANGED (NOT EF).

EXISTING SERVICES

- SERVICES PHYSICALLY LOCATED ARE NOTED AS SUCH. ALL OTHER SERVICES SHOWN HAVE BEEN INFERRED FROM DIAL BEFORE YOU DIG DATA AND ARE LIKELY TO BE INCOMPLETE AND INACCURATE.
- ALL SERVICES MUST BE PHYSICALLY LOCATED PRIOR TO CONSTRUCTION. CONFLICTS WHICH RESULT IN A CHANGE IN LEVEL OF THE PBID PIPELINE OF 200mm OR MORE SHALL BE REFERRED TO THE SUPERINTENDENT.
- MINIMUM CLEARANCES FROM EXISTING SERVICES ARE TO BE MAINTAINED IN ACCORDANCE TO TABLE 1 UNLESS WRITTEN AGREEMENT ON REDUCED CLEARANCES ARE OBTAINED FROM WESTERN WATER AND THE SERVICE OWNER.

EXISTING FARM INFRASTRUCTURE

- ANY INFRASTRUCTURE (EG. FENCES, DRAINS ETC.) THAT IS REQUIRED TO BE MOVED FOR CONSTRUCTION SHALL BE REINSTATED IN ACCORDANCE WITH THE SPECIFICATION.

TESTING AND ACCEPTANCE

- TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH WSA03-2011 MRWA EDITION AND THE PROJECT SPECIFICATION.
- TESTING SHALL BE UNDERTAKEN SEPARATELY FOR EACH PRESSURE CLASS OF PIPELINE.
- REFER TO TABLE 2 FOR TEST PRESSURE.
- THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENT IN WRITING 2 FULL WORKING DAYS IN ADVANCE OF TESTING BEING UNDERTAKEN.

ENVIRONMENTAL

- THE CONTRACTOR IS TO KEEP A COPY OF THE APPROVED CULTURAL HERITAGE MANAGEMENT PLAN ON SITE AT ALL TIMES DURING WORKS.
- ALL REQUIREMENTS OF THE CULTURAL HERITAGE MANAGEMENT PLAN SHALL BE ADHERED TO.
- REMOVE TREES WITHIN PIPELINE ALIGNMENT AS REQUIRED. REFER TO ENVIRONMENTAL MANAGEMENT PLAN.

TABLE 1: CLEARANCES BETWEEN PROPOSED PIPELINES AND UNDERGROUND SERVICES

UTILITY (EX. SERVICES)	MINIMUM HORIZONTAL CLEARANCE (mm)	MINIMUM VERTICAL CLEARANCE (mm)
WATER MAINS (>DN375)	600	300
WATER MAINS (≤DN375)	600	150
GAS MAINS	600	150
TELECOM CONDUITS AND CABLES	600	150
ELECTRICITY CONDUITS AND CABLES	1000	225
DRAINS	600	150
SEWERS - PRESSURE	600	500
KERBS	600	150 (WHERE POSSIBLE)

TABLE 2: MAIN LINE PIPE SCHEDULE (EXCLUDING OFFTAKES)

FULL NAME	PIPE SIZE	PIPE TYPE	PIPE CLASS	PIPE STIFFNESS	TEST PRESSURE (kPa)	SPECIFICATION
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE	DN675	GRP	PN16	SN10,000	1000	WSA PS-205
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE (BALLAN ROAD CROSSING JACKING PIPE)	DN675	GRP	PN16	TBC BY CONTRACTOR	1000	WSA PS-205J OR WSA PS-206J
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE (SCHOOL TREES JACKING PIPE)	DN675	GRP	PN16	TBC BY CONTRACTOR	1600	WSA PS-205J OR WSA PS-206J
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE	DN600	GRP	PN16	SN10,000	1600	WSA PS-205
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE	OD630	HDPE	PN16	N/A	1600	WSA PS-207
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE	OD500	HDPE	PN16	N/A	1600	WSA PS-207
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE (BALLIANG CREEK CROSSING)	OD500	HDPE	PN20	N/A	1600	WSA PS-207
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE	OD280	HDPE	PN16	N/A	1600	WSA PS-207
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE (AGARS ROAD CROSSING)	OD280	HDPE	PN20	N/A	1600	WSA PS-207



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DESIGN CHECK LS	DRAFT CHECK AGS
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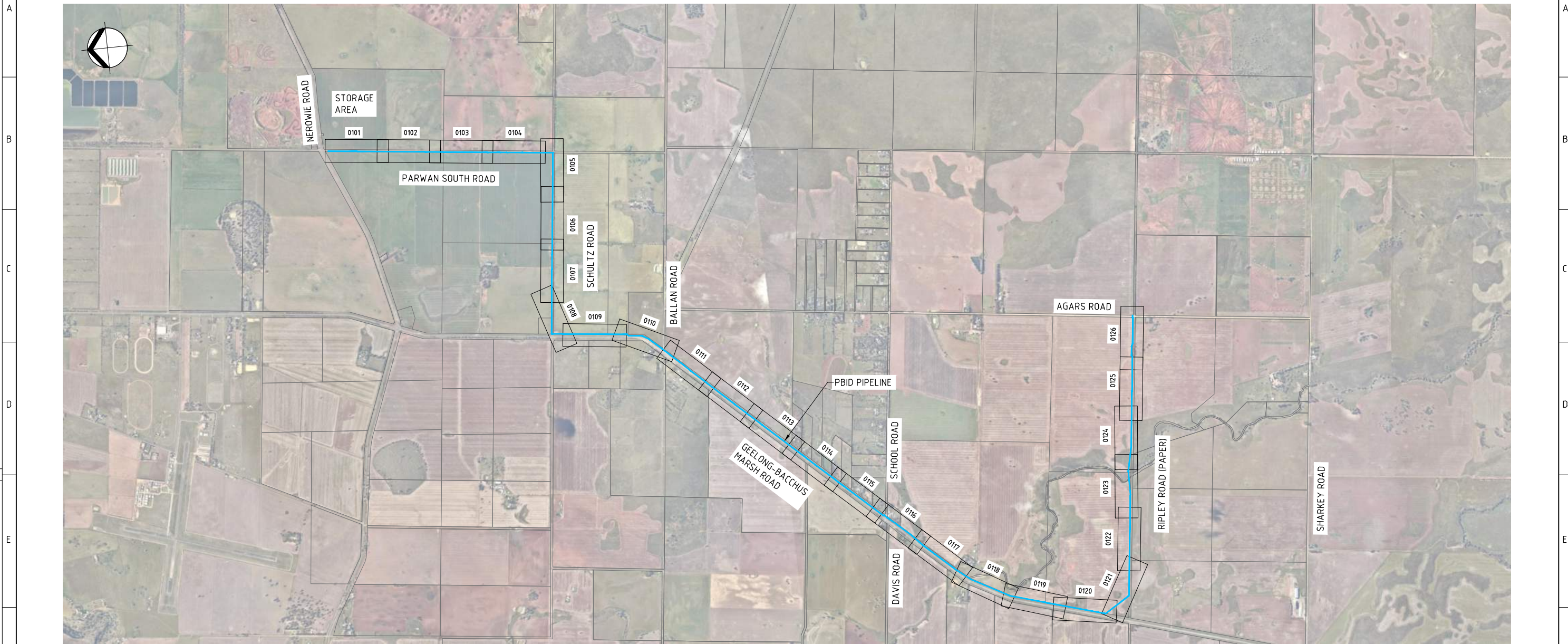
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
GENERAL NOTES AND SCHEDULES

PLAN TYPE:	GENERAL
SCALE:	NTS
DRAWING NUMBER	
R0602-R-PBID-PL-G-0003	T0
NUMERAL	REV



T0	ISSUE FOR TENDER	25.03.21	DAP
REV	ZONE	DESCRIPTION	DATE

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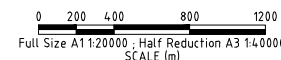
OVERVIEW PLAN
SCALE: 1:20,000

- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.



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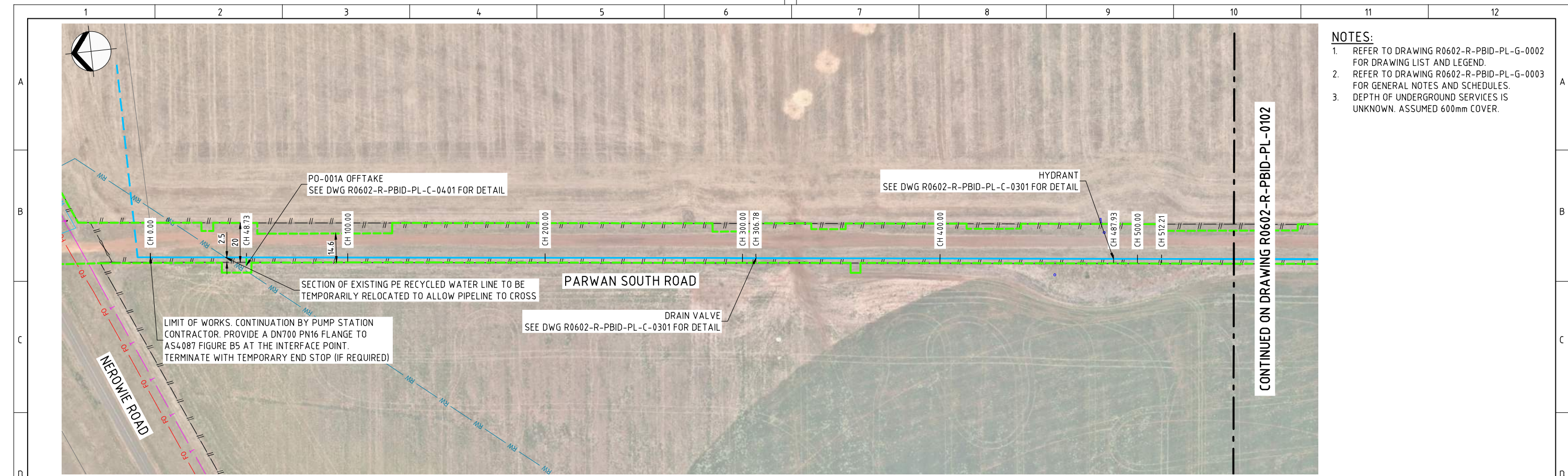


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DESIGN CHECK LS
DRAFT CHECK AGS
APPROVED DAP



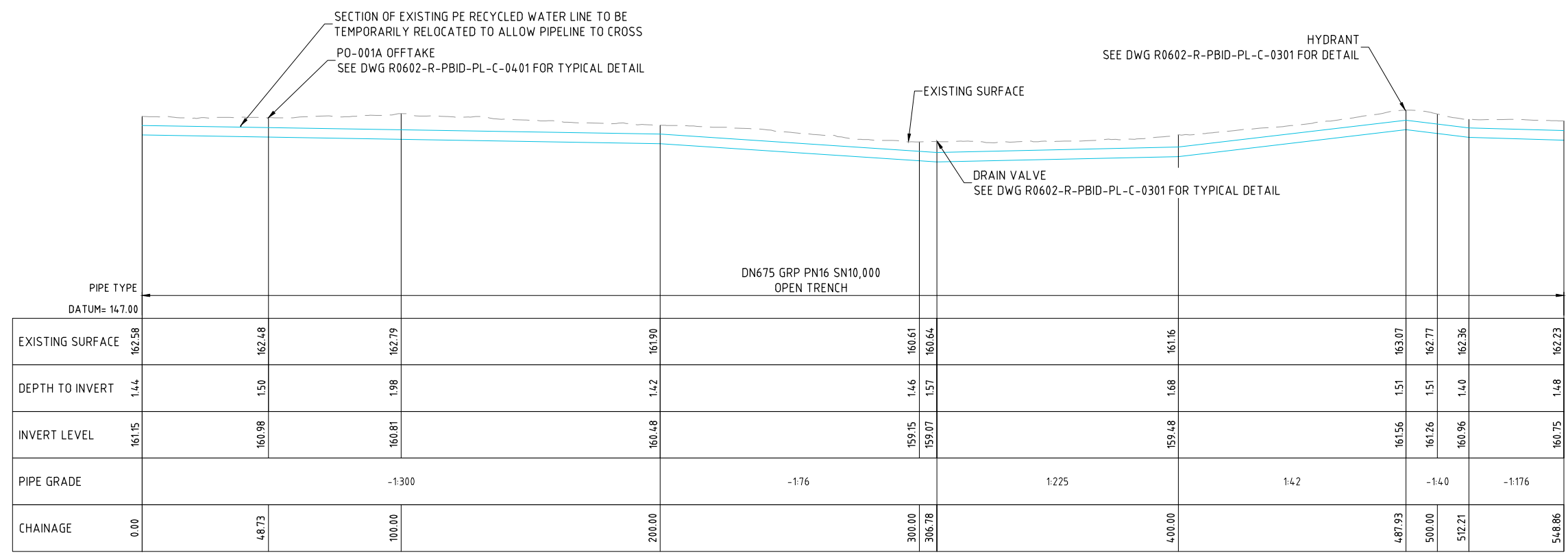
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
KEY PLAN

PLAN TYPE:	CIVIL
SCALE:	1:20000
DRAWING NUMBER	
R0602-R-PBID-PL-C-0100	T0
NUMERAL	REV

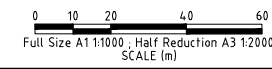


- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.
 - DEPTH OF UNDERGROUND SERVICES IS UNKNOWN. ASSUMED 600mm COVER.

PLAN
SCALE 1:1000



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



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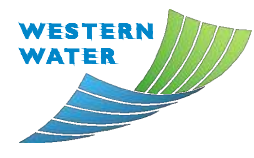
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APPROVED	DAP			
TO	ISSUE FOR TENDER	25.03.21	DAP	
REV	ZONE	DESCRIPTION	DATE	APP'D

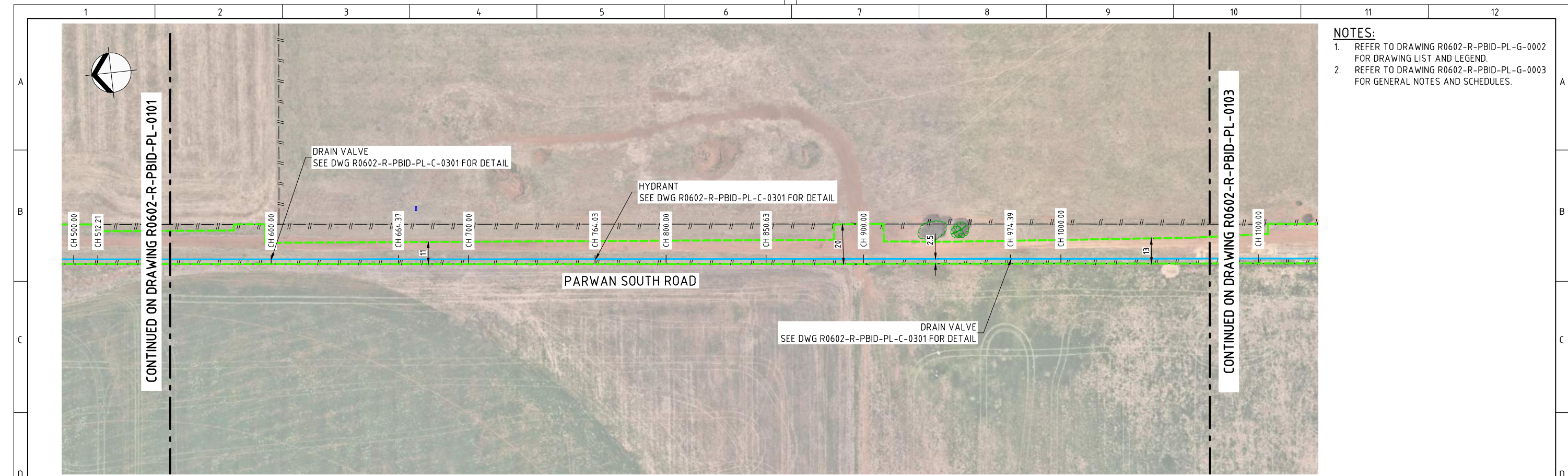


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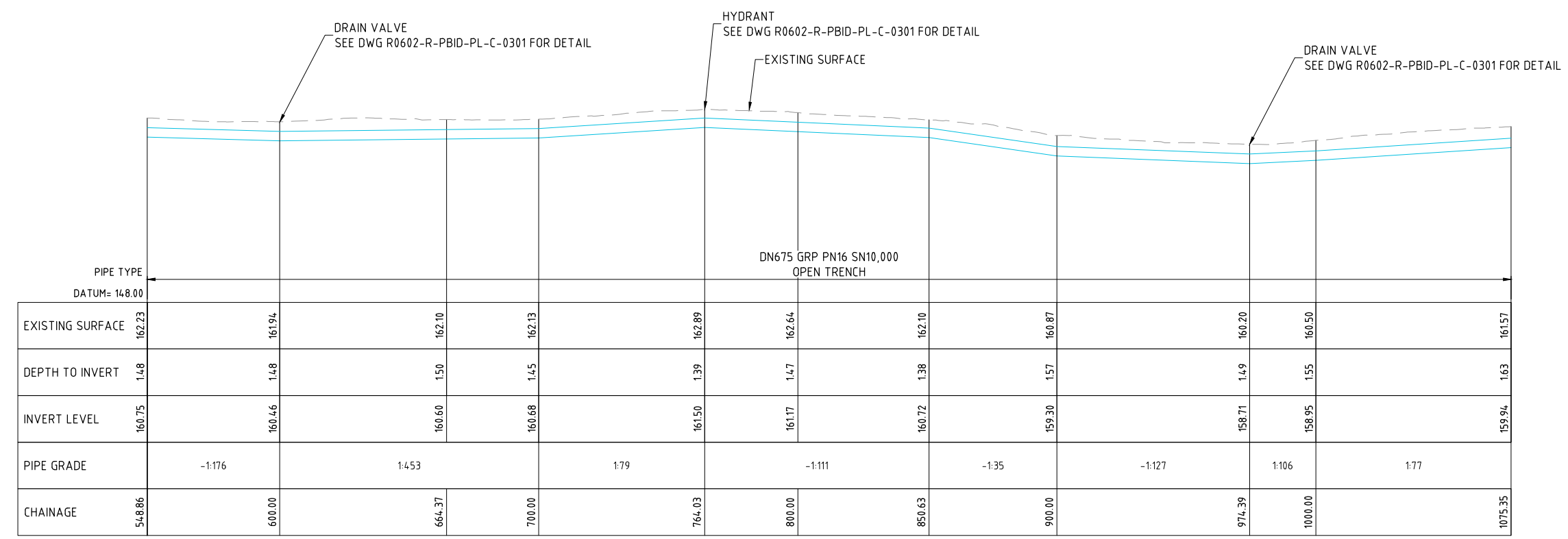
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 1

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
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NUMERAL	REV

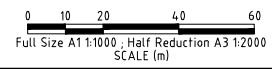


- NOTES:**
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 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.

PLAN
SCALE 1:1000



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



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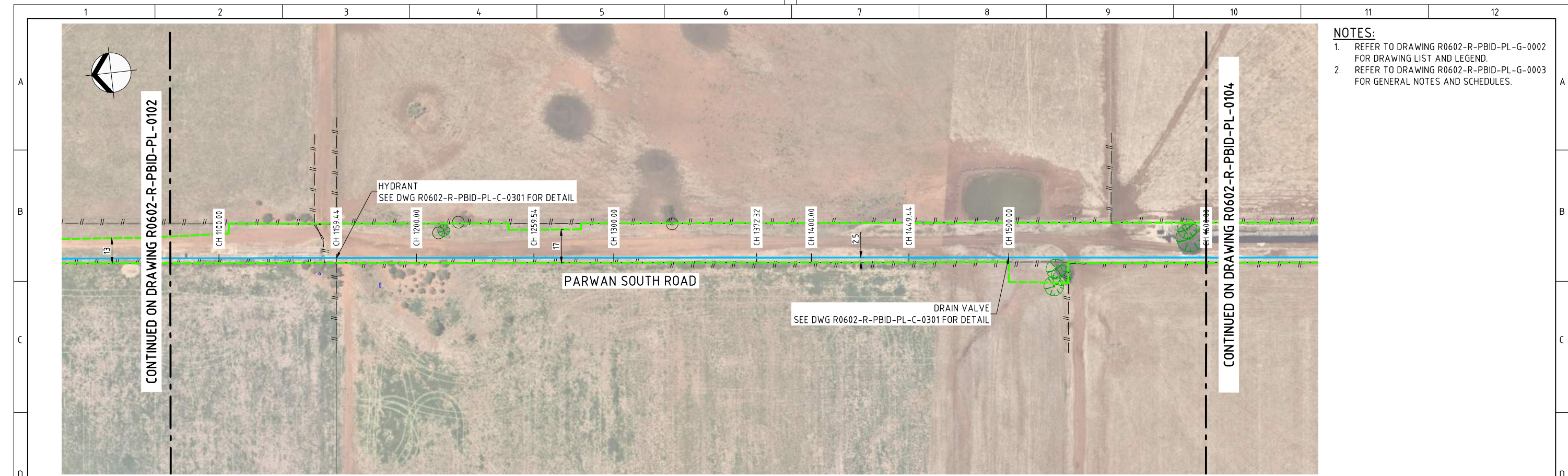
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TO	ISSUE FOR TENDER	DATE	25.03.21
REV	ZONE	DESCRIPTION	DATE



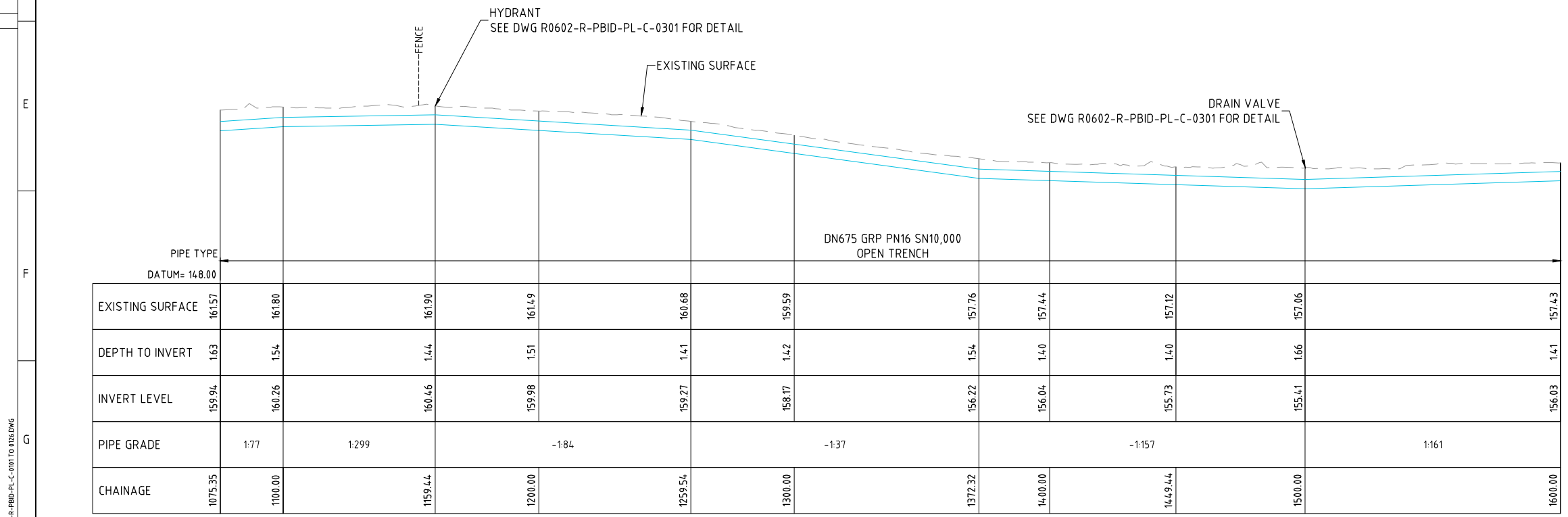
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 2

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
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NUMERAL	REV

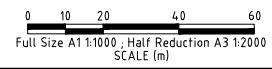
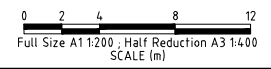


- NOTES:**
1. REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 2. REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.

PLAN
SCALE 1:1000



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



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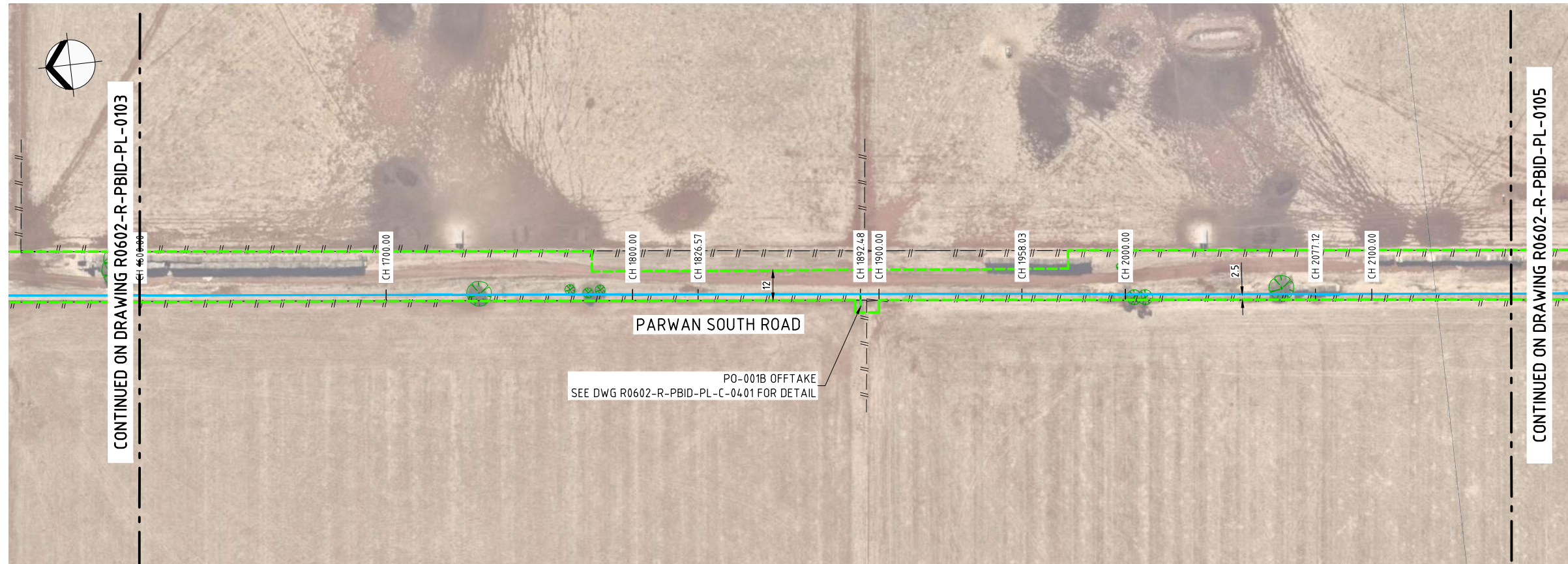
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WESTERN WATER

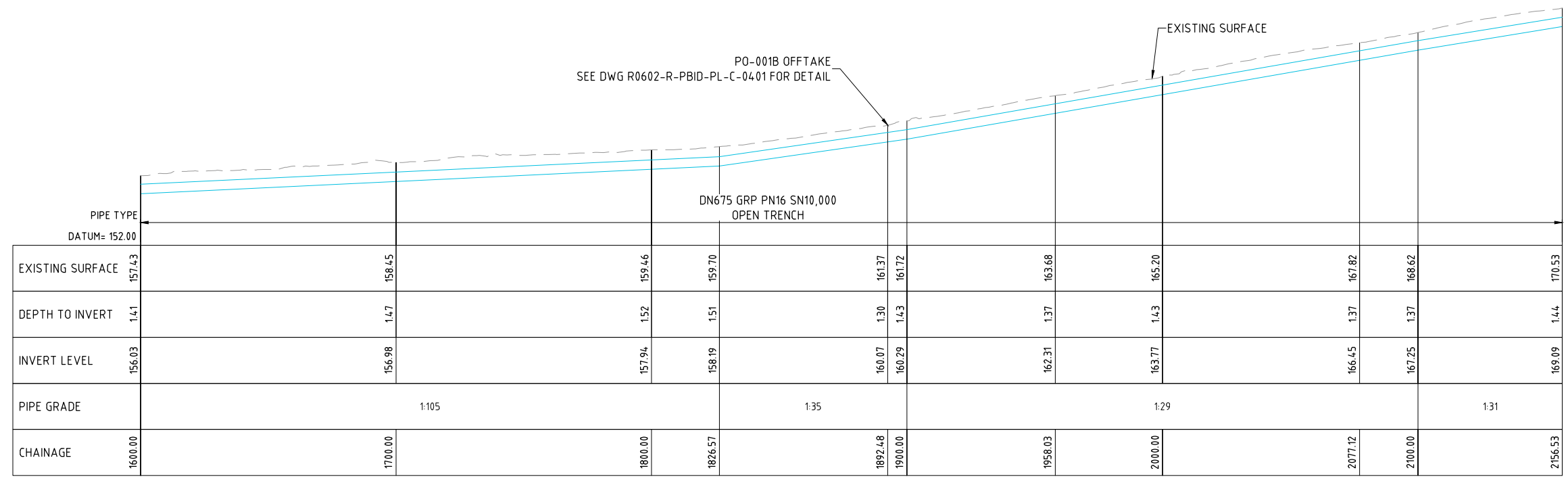
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 3

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0103	T0
NUMERAL	REV



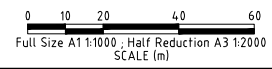
PLAN
SCALE 1:1000

- NOTES:**
1. REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 2. REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.
 3. OFFTAKE LOCATION BASED OFF FAILLI WW PLAN REV F.



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

PIPE TYPE	DN675 GRP PN16 SN10,000 OPEN TRENCH										
DATUM= 152.00											
EXISTING SURFACE	157.43	158.45	159.46	159.70	161.37	161.72	163.68	165.20	167.82	168.62	170.53
DEPTH TO INVERT	1.41	1.47	1.52	1.51	1.30	1.43	1.37	1.43	1.37	1.37	1.44
INVERT LEVEL	156.03	156.98	157.94	158.19	160.07	160.29	162.31	163.77	166.45	167.25	169.09
PIPE GRADE	1:105			1:35			1:29			1:31	
CHAINAGE	1600.00	1700.00	1800.00	1826.57	1892.48	1900.00	1958.03	2000.00	2077.12	2100.00	2156.53



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

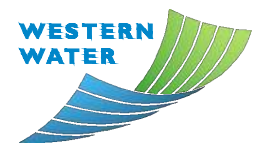
FOR TENDER
NOT FOR CONSTRUCTION

CAD FILE NAME: \\BECA.NET\PROJECTS\658\6584\39\CAD\IR\0602-R-PBID-PL-C-0104 TO 0104.DWG

DESIGNED	CD	DRAWN	JB
DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		
DATE	25.03.21	APP'D	DAP
REV	ZONE	DESCRIPTION	DATE
T0		ISSUE FOR TENDER	25.03.21

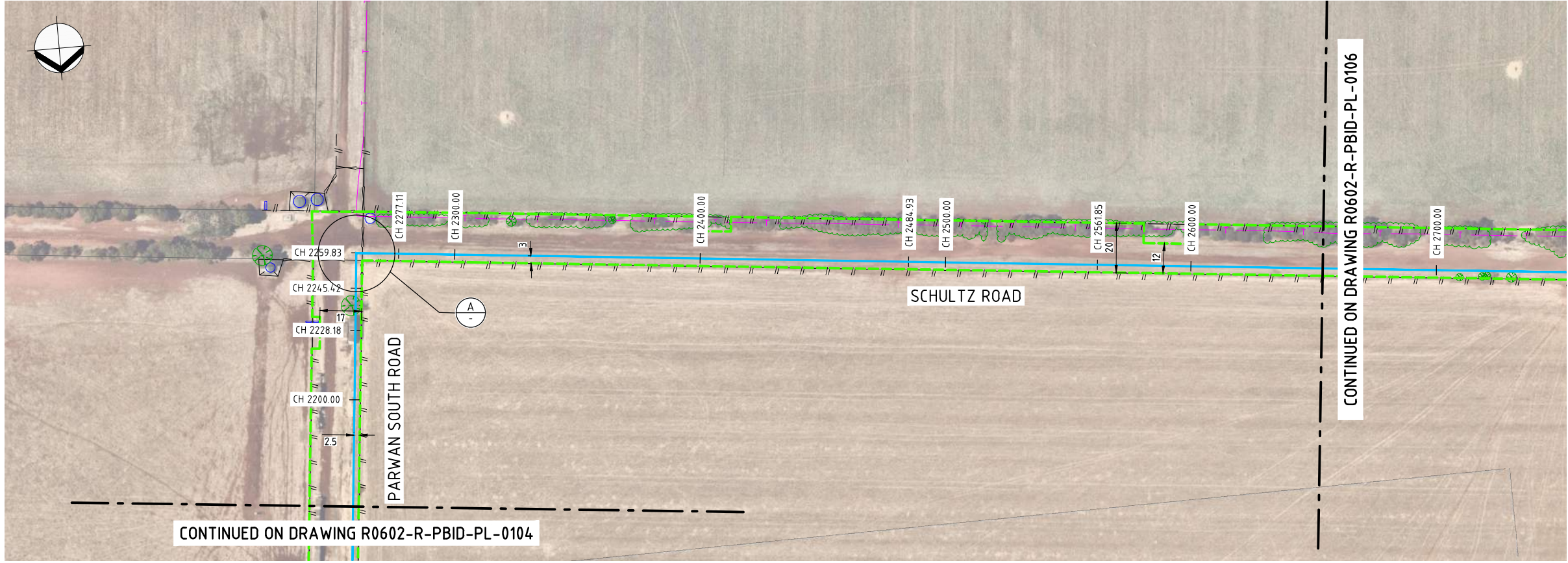


DESIGNED CD
DRAWN JB
DESIGN CHECK LS
DRAFT CHECK AGS
APPROVED DAP

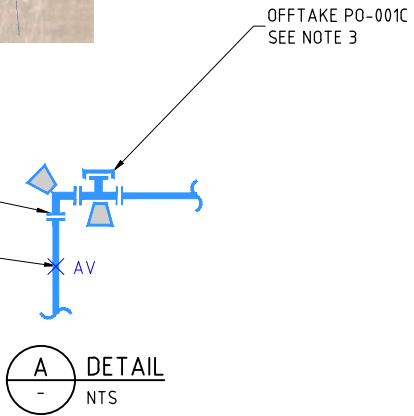
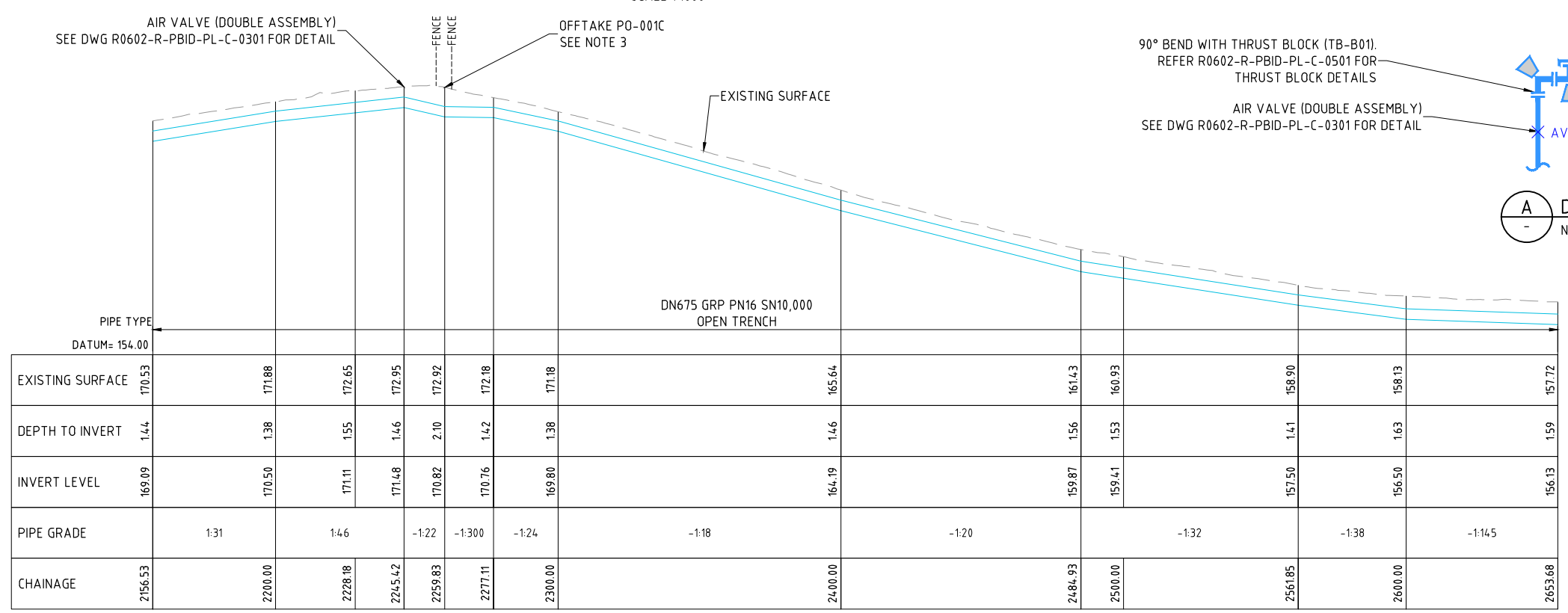


PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 4

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0104	T0
NUMERAL	REV



- NOTES:**
1. REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 2. REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.
 3. SOUTH FACING TEE FOR FUTURE OFFTAKE (PO-001C). INSTALL TEE, BLANK FLANGE AND THRUST BLOCK (TB-B01). SEE DWG R0602-R-PBID-PL-C-0401 FOR TEE AND C-0501 FOR THRUST BLOCK DETAILS.



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

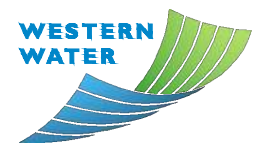
FOR TENDER
NOT FOR CONSTRUCTION

CAD FILE NAME: \\BECA.NET\PROJECTS\6584\6584\39\CAD\R0602-R-PBID-PL-C-0105 TO 0106.DWG

REV	ZONE	DESCRIPTION	DATE	APP'D
T0		ISSUE FOR TENDER	25.03.21	DAP



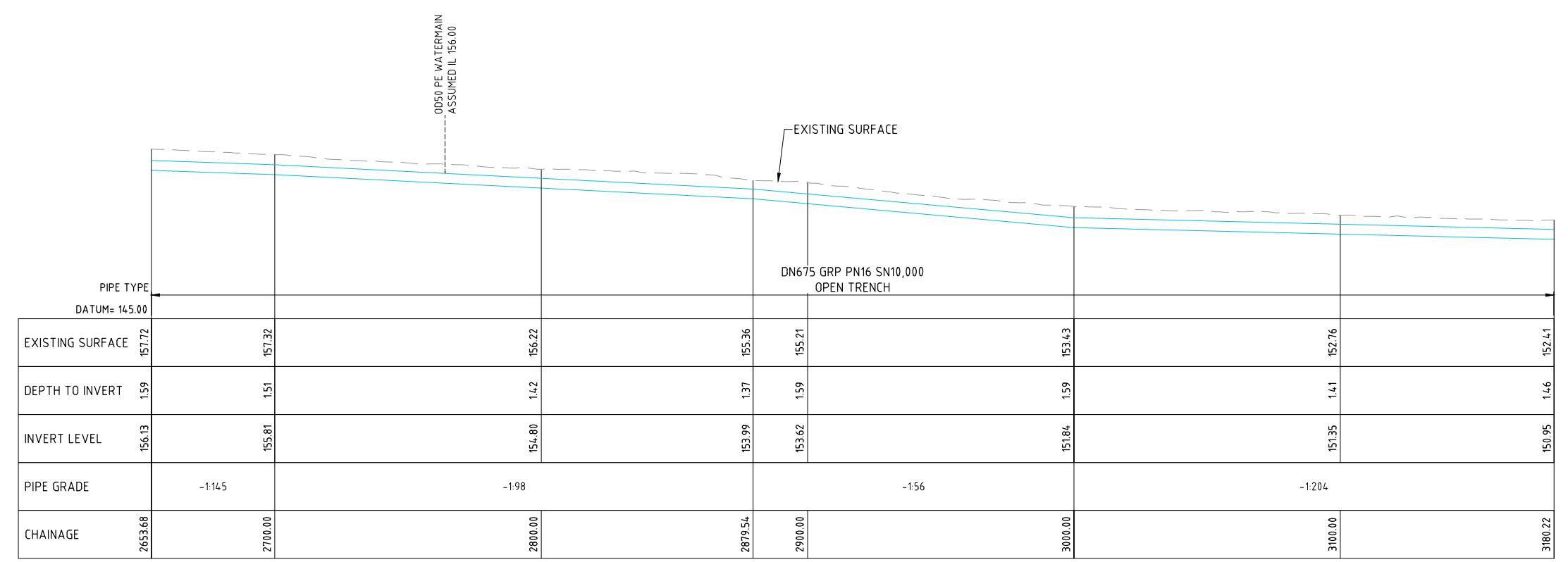
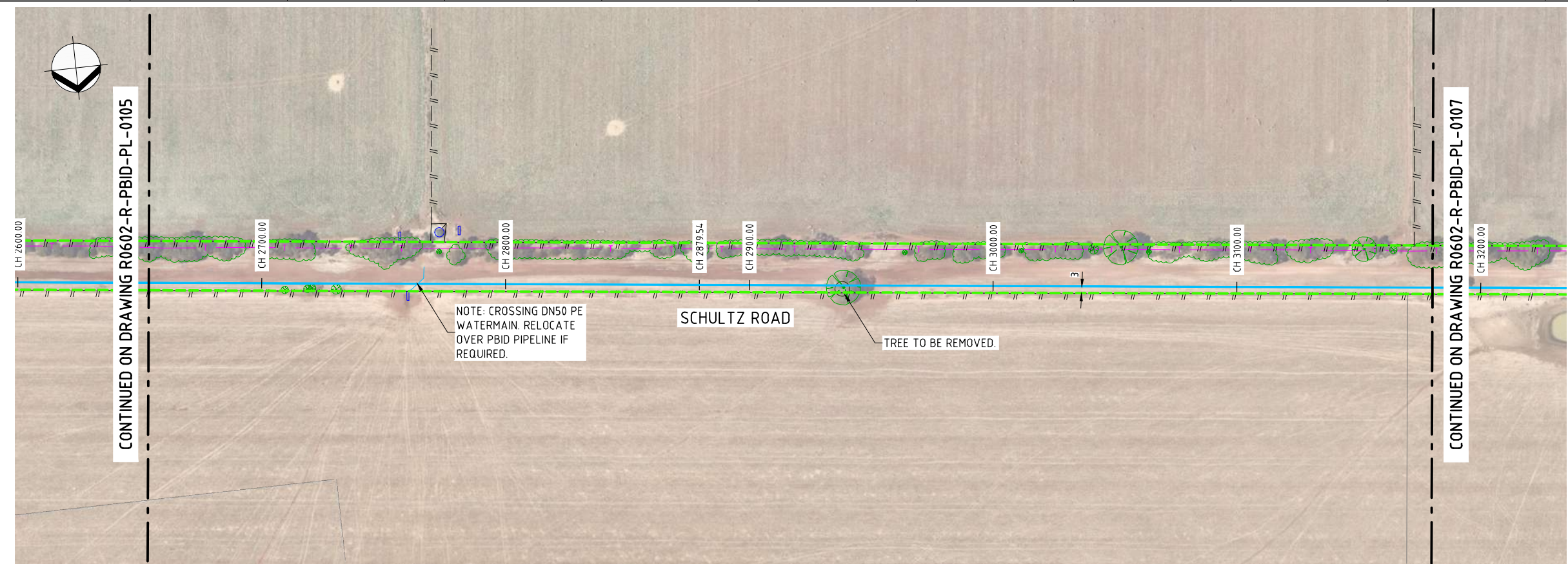
DESIGNED CD	DRAWN JB
DESIGN CHECK LS	DRAFT CHECK AGS
APPROVED DAP	



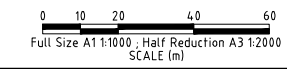
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 5

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0105	T0
NUMERAL	REV

- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.
 - DEPTH OF UNDERGROUND SERVICES IS UNKNOWN. ASSUMED 600mm COVER.



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



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

FOR TENDER
NOT FOR CONSTRUCTION

CAD FILE NAME: \\BECA.NET\PROJECTS\658\6584\39\CAD\R0602-R-PBID-PL-C-0106 TO R126.DWG

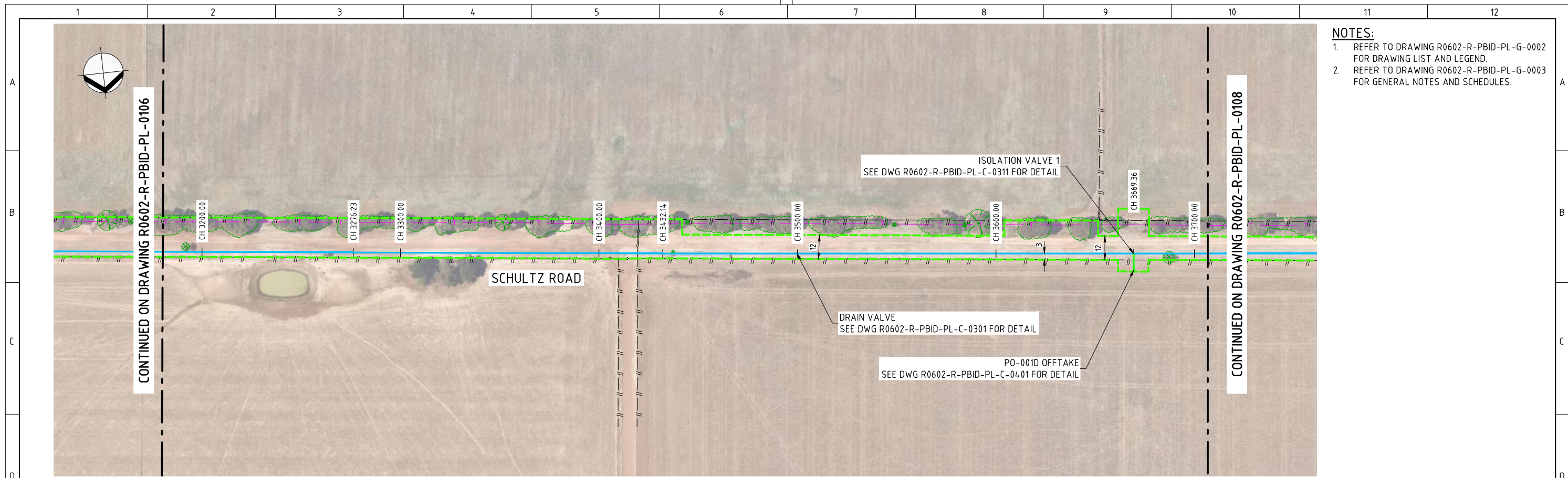
DESIGNED	CD	DRAWN	JB	
DESIGN CHECK	LS	DRAFT CHECK	AGS	
APPROVED	DAP			
REV	ZONE	DESCRIPTION	DATE	APP'D
T0		ISSUE FOR TENDER	25.03.21	DAP



WESTERN WATER

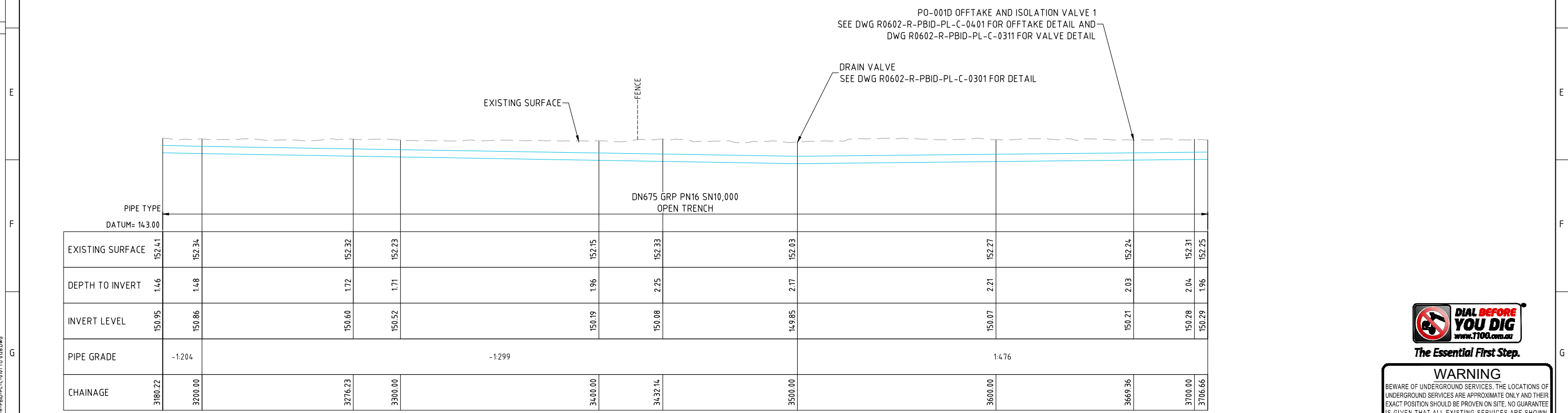
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 6

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0106	T0
NUMERAL	REV



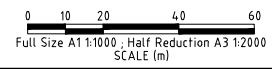
PLAN
SCALE 1:1000

- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

PIPE TYPE	DN675 GRP PN16 SN10,000 OPEN TRENCH											
DATUM= 143.00												
EXISTING SURFACE	152.41	152.34	152.32	152.23	152.15	152.33	152.03	152.27	152.24	152.31	152.25	
DEPTH TO INVERT	1.46	1.48	1.72	1.71	1.96	2.25	2.17	2.21	2.03	2.04	1.96	
INVERT LEVEL	150.95	150.86	150.60	150.52	150.19	150.08	14.985	150.07	150.21	150.28	150.29	
PIPE GRADE	-1.204	-1.299					1.476					
CHAINAGE	3180.22	3200.00	3276.23	3300.00	3400.00	3432.14	3500.00	3600.00	3669.36	3700.00	3706.66	



WARNING
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FOR TENDER
NOT FOR CONSTRUCTION

DESIGNED	CD	DRAWN	JB
DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		
TO	ISSUE FOR TENDER	DATE	25.03.21
REV	ZONE	DESCRIPTION	DATE

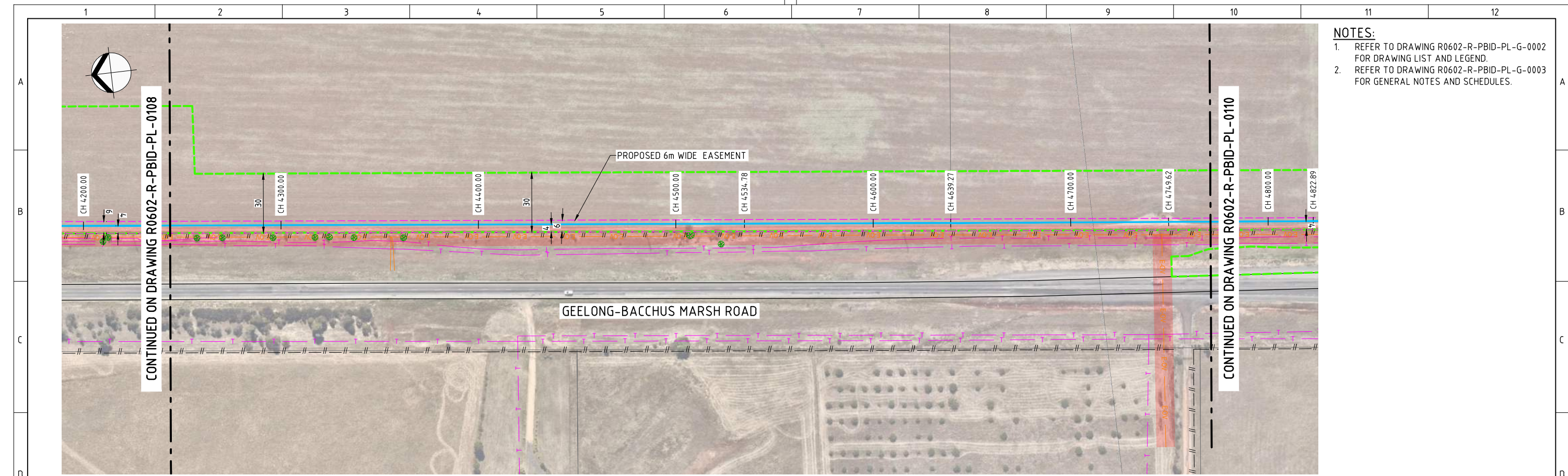


WESTERN WATER

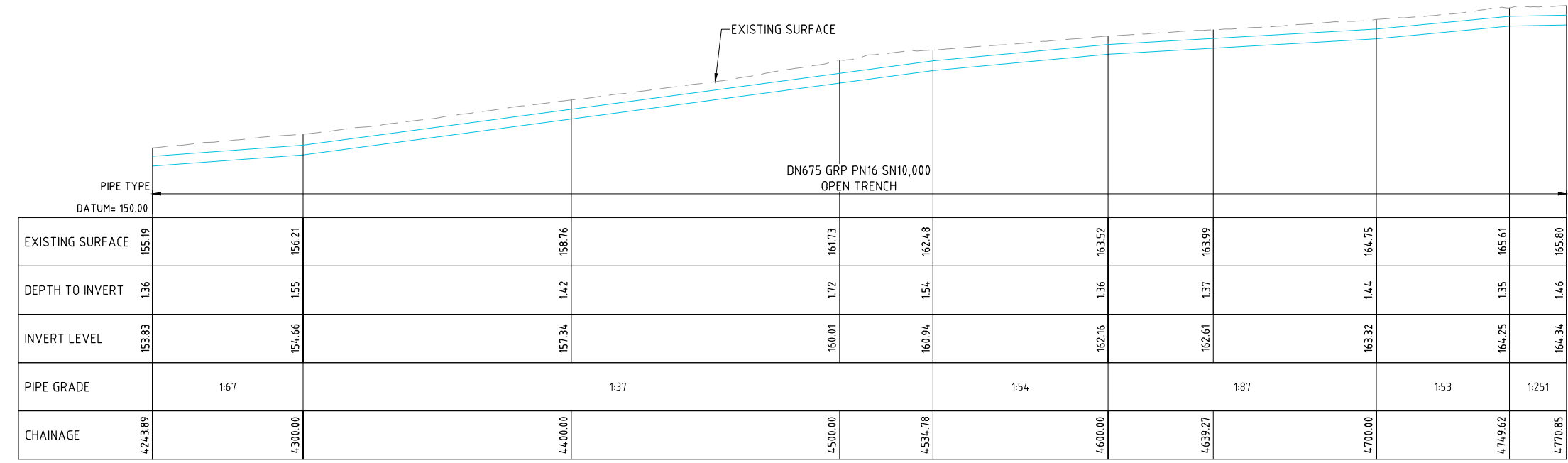
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 7

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	R0602-R-PBID-PL-C-0107
NUMERAL	T0
REV	

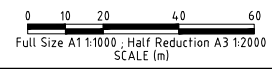
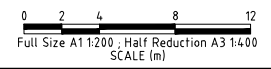
CAD FILE NAME: \\BECA.NET\PROJECTS\658\6584\39\CAD\R0602-R-PBID-PL-C-0107 TO 0106.DWG



- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



WARNING
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FOR TENDER
NOT FOR CONSTRUCTION

CAD FILE NAME: \\BECA.NET\PROJECTS\65816584\39\CAD\R0602-R-PBID-PL-C-0109 TO 0109.DWG

DESIGNED	CD	DRAWN	JB
DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		
DATE	25.03.21	DAP	
REV	ZONE	DESCRIPTION	APP'D
T0		ISSUE FOR TENDER	DAP

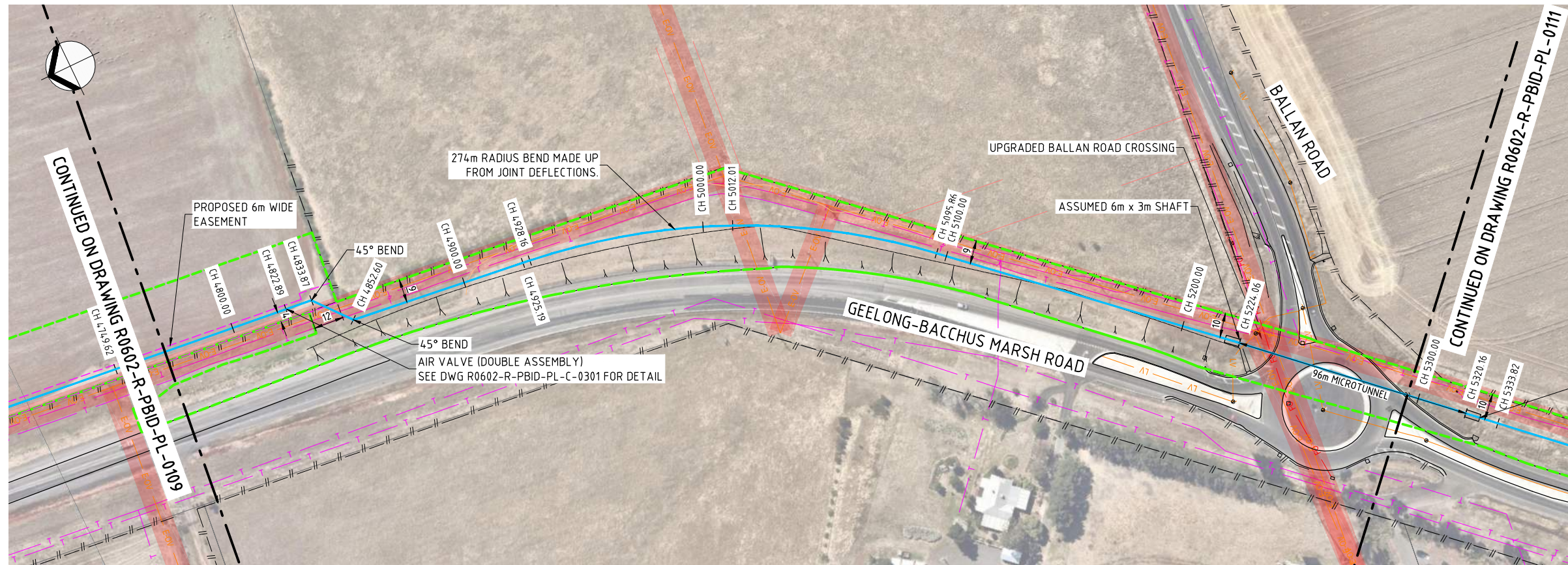


DESIGNED CD
DRAWN JB
DESIGN CHECK LS
DRAFT CHECK AGS
APPROVED DAP



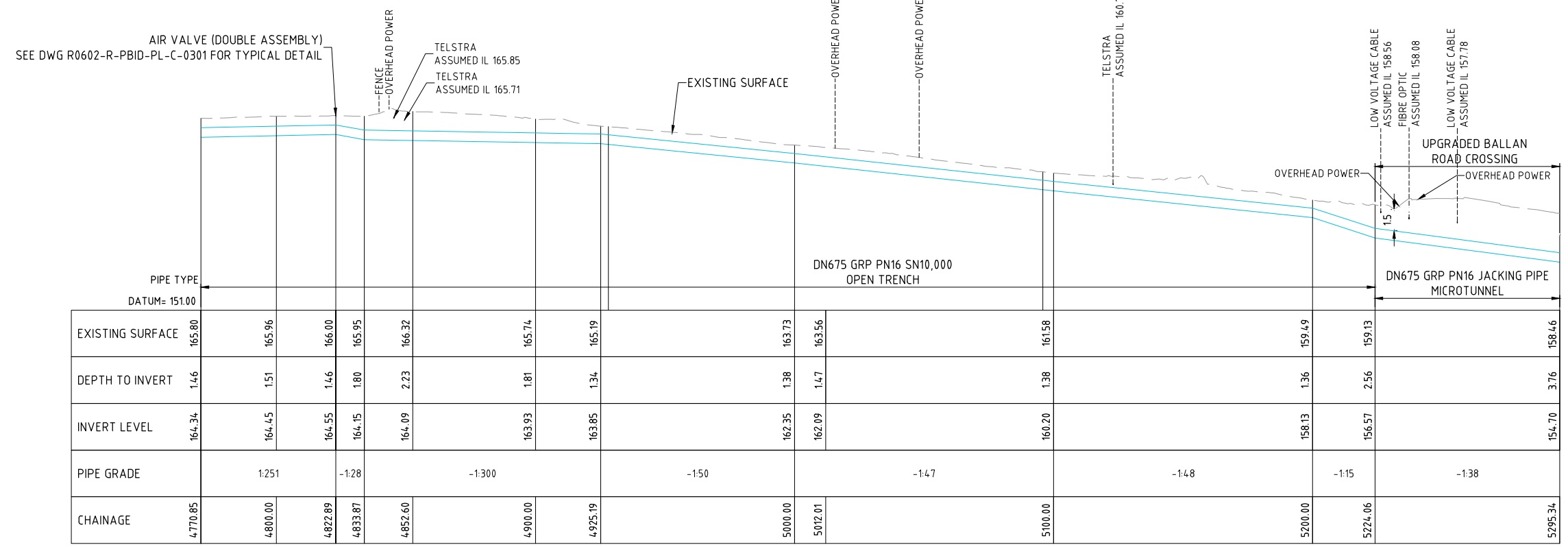
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 9

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0109	T0
NUMERAL	REV

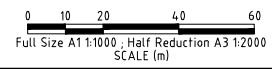


- NOTES:**
1. REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 2. REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.
 3. DEPTH OF UNDERGROUND SERVICES IS UNKNOWN. ASSUMED 600mm COVER.

PLAN
SCALE 1:1000



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



PIPE TYPE	DN675 GRP PN16 SN10,000 OPEN TRENCH												DN675 GRP PN16 JACKING PIPE MICROTUNNEL		
DATUM= 151.00															
EXISTING SURFACE	165.80	165.96	166.00	165.95	166.32	165.74	165.19	163.73	163.56	161.58	159.49	159.13	158.46	158.46	154.70
DEPTH TO INVERT	1.46	1.51	1.46	1.80	2.23	1.81	1.34	1.38	1.47	1.38	1.36	2.56	3.76	3.76	
INVERT LEVEL	164.34	164.45	164.55	164.15	164.09	163.93	163.85	162.35	162.09	160.20	158.13	156.57	154.70	154.70	
PIPE GRADE		1:251	-1:28		-1:300		-1:50		-1:47		-1:48	-1:15	-1:38		
CHAINAGE	4770.85	4800.00	4822.89	4833.87	4852.60	4900.00	4925.19	5000.00	5012.01	5100.00	5200.00	5224.06	5295.34	5295.34	

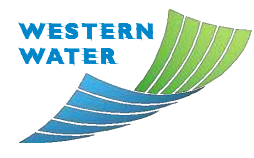


WARNING
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FOR TENDER
NOT FOR CONSTRUCTION

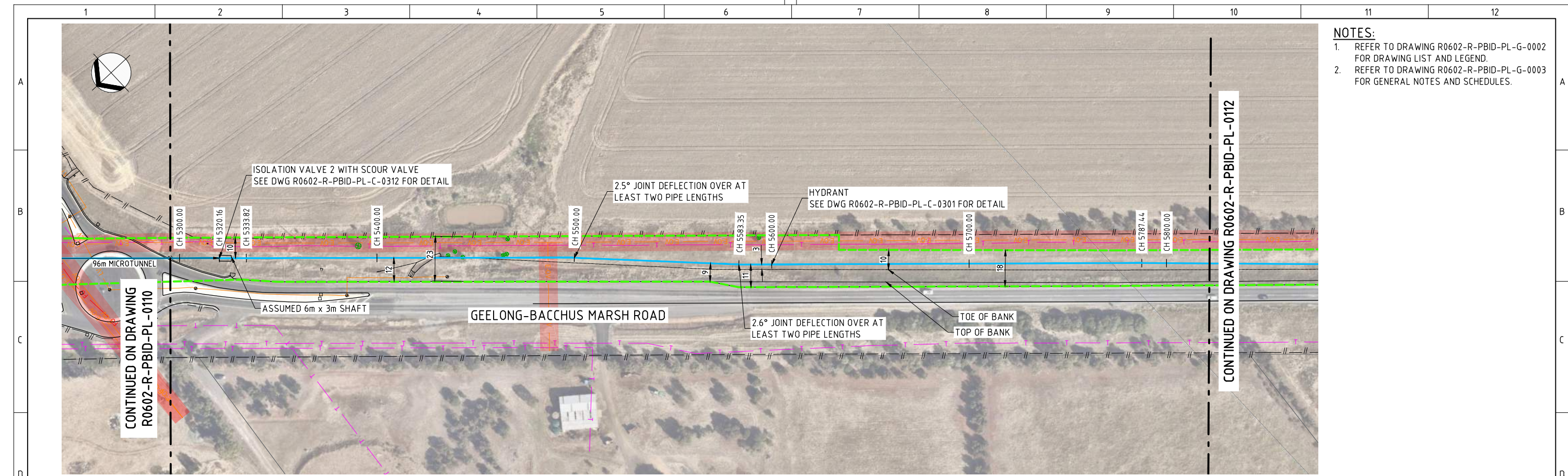
CAD FILE NAME: \\BECA.NET\PROJECTS\658439\CAD\R0602-R-PBID-PL-C-0111 TO 0126.DWG

DESIGNED	CD	DRAWN	JB
DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		

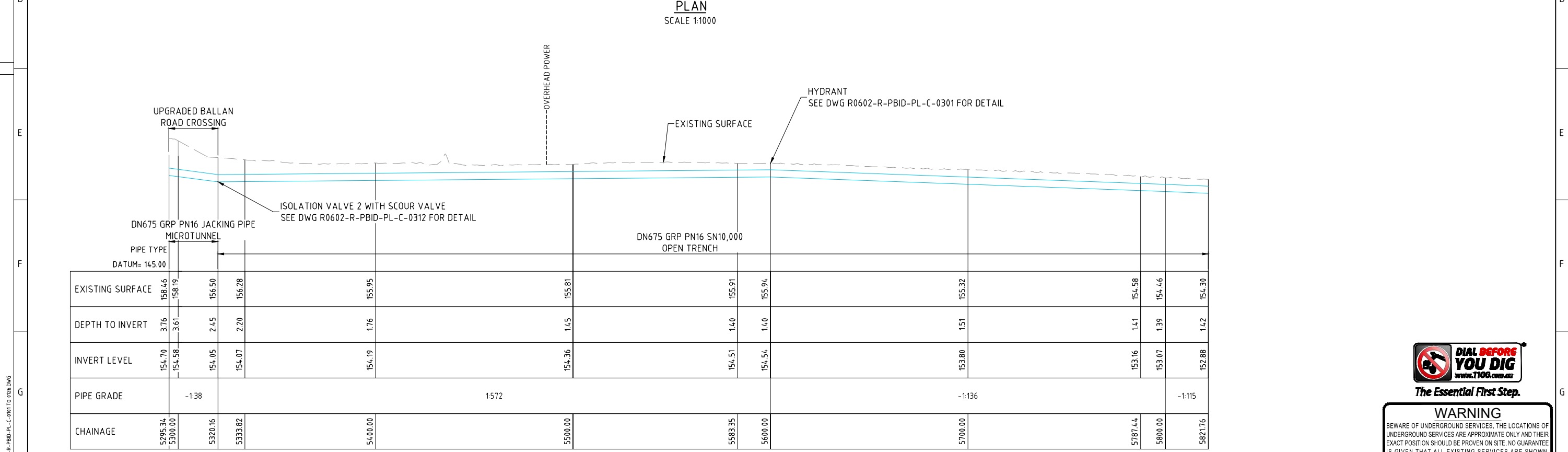


PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 10

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0110	T0
NUMERAL	REV



- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.



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

FOR TENDER
NOT FOR CONSTRUCTION

DESIGNED	CD	DRAWN	JB
DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		
TO	ISSUE FOR TENDER	25.03.21	DAP
REV	ZONE	DESCRIPTION	DATE

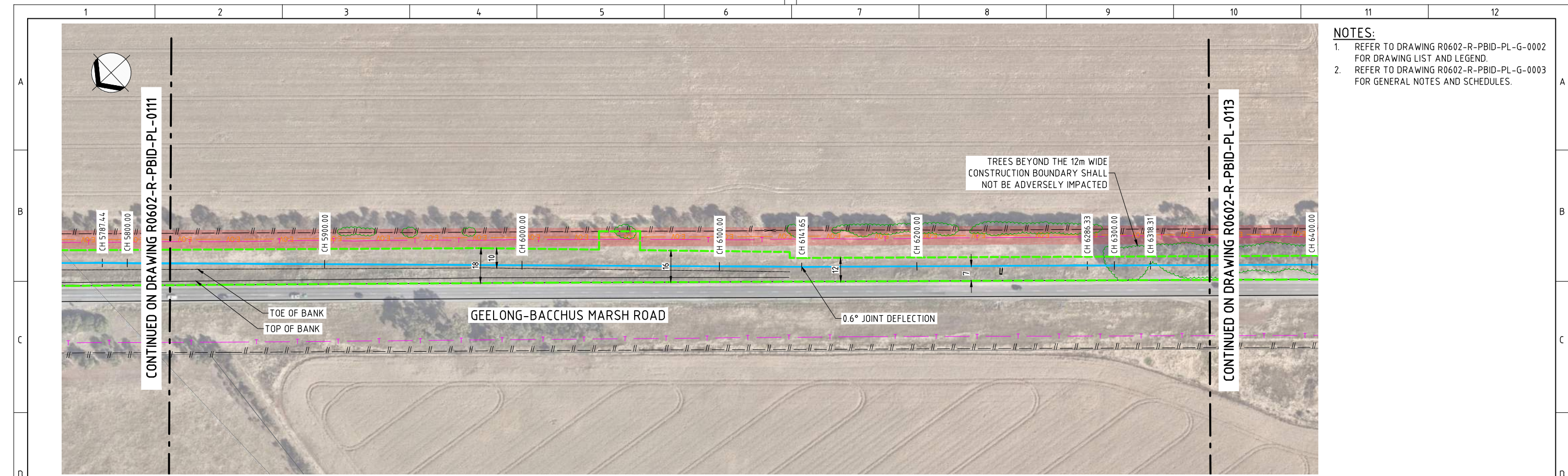


DESIGNED CD
DRAWN JB
DESIGN CHECK LS
DRAFT CHECK AGS
APPROVED DAP



PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 11

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	R0602-R-PBID-PL-C-0111
NUMERAL	T0
REV	



PLAN
SCALE 1:1000

- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.

TREES BEYOND THE 12m WIDE CONSTRUCTION BOUNDARY SHALL NOT BE ADVERSELY IMPACTED

CONTINUED ON DRAWING R0602-R-PBID-PL-0111

CONTINUED ON DRAWING R0602-R-PBID-PL-0113

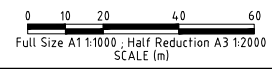
TOE OF BANK
TOP OF BANK

GEELONG-BACCHUS MARSH ROAD

0.6° JOINT DEFLECTION

PIPE TYPE	DN675 GRP PN16 SN10,000 OPEN TRENCH									
DATUM= 140.00										
EXISTING SURFACE	154.30	153.88	152.92	151.55	151.07	149.95	148.14	148.07	147.13	147.20
DEPTH TO INVERT	1.42	1.68	1.59	1.49	1.54	1.82	2.08	2.34	1.84	2.11
INVERT LEVEL	152.88	152.20	151.33	150.06	149.53	148.13	146.06	145.73	145.29	145.09
PIPE GRADE		-1.115		-1.79		-1.42				-1.152
CHAINAGE	5821.76	5900.00	6000.00	6100.00	6141.65	6200.00	6286.33	6300.00	6318.31	6348.23

LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



WARNING
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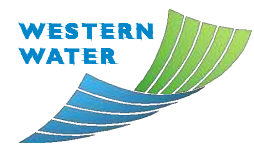
FOR TENDER
NOT FOR CONSTRUCTION

CAD FILE NAME: \\BECA.NET\PROJECTS\6584\6584\39\CAD\R0602-R-PBID-PL-C-0112 TO 0126.DWG

DESIGNED	CD	DRAWN	JB
DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		
TO	ISSUE FOR TENDER	25.03.21	DAP
REV	ZONE	DESCRIPTION	DATE

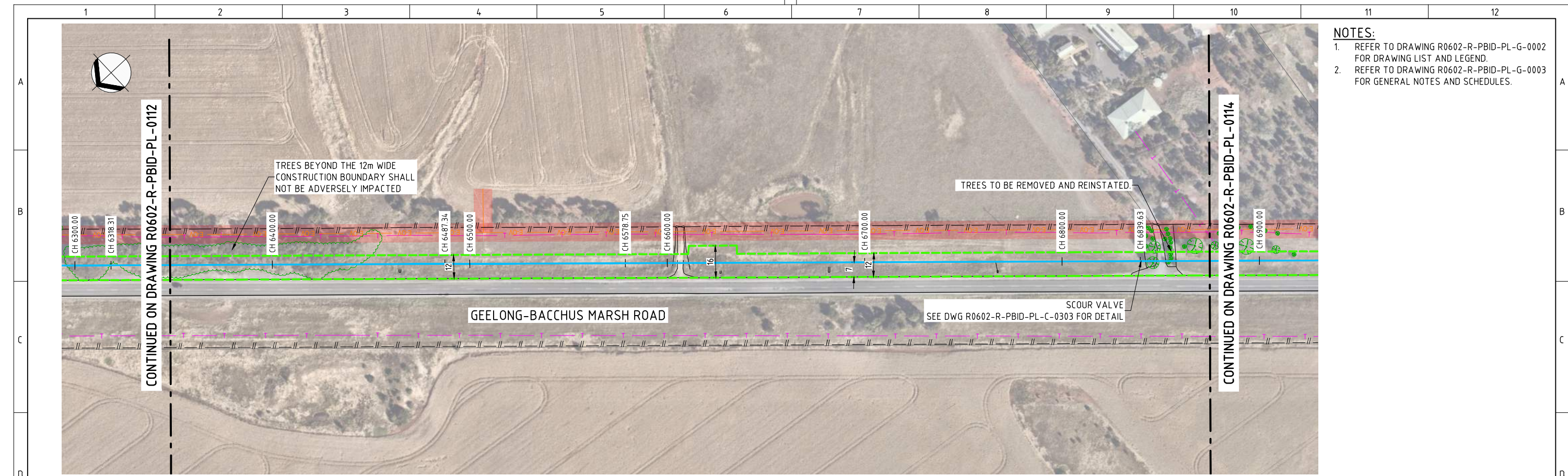


DESIGNED CD
DRAWN JB
DESIGN CHECK LS
DRAFT CHECK AGS
APPROVED DAP



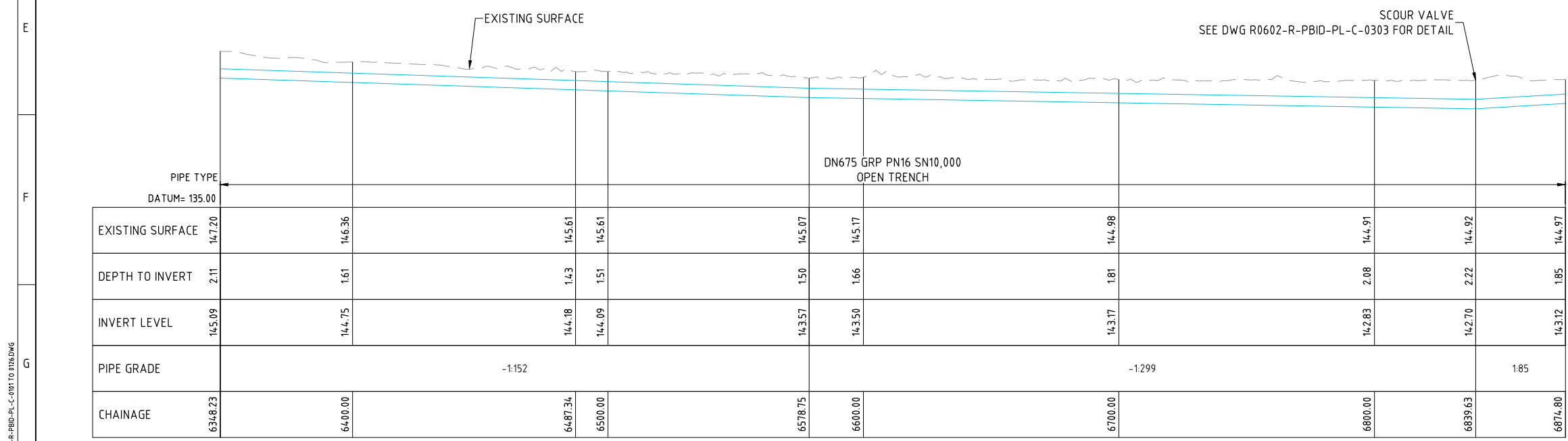
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 12

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0112	T0
NUMERAL	REV

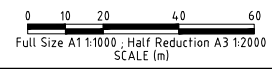


PLAN
SCALE 1:1000

- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



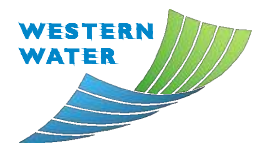
WARNING
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

FOR TENDER
NOT FOR CONSTRUCTION

DESIGNED	CD	DRAWN	JB	
DESIGN CHECK	LS	DRAFT CHECK	AGS	
APPROVED	DAP			
REV	ZONE	DESCRIPTION	DATE	APP'D
T0		ISSUE FOR TENDER	25.03.21	DAP



DESIGNED	CD	DRAWN	JB
DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		



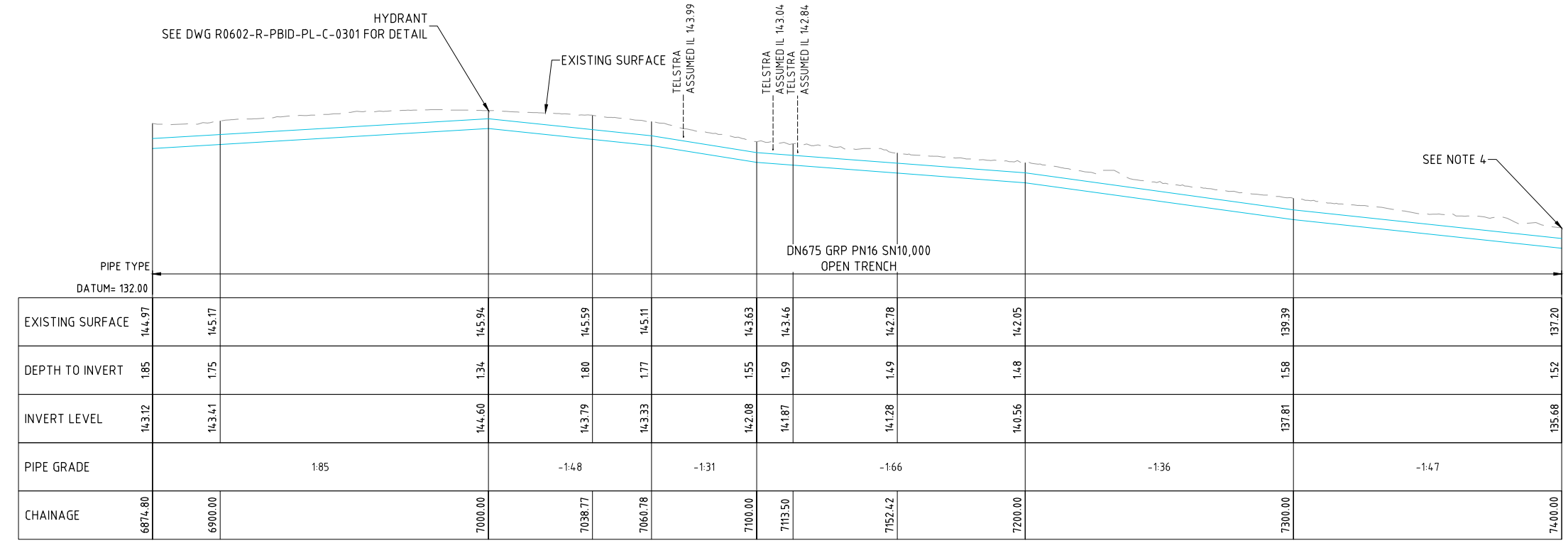
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 13

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0113	T0
NUMERAL	REV

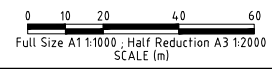
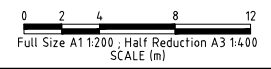


- NOTES:**
1. REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 2. REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.
 3. DEPTH OF UNDERGROUND SERVICES IS UNKNOWN. ASSUMED 600mm COVER.
 4. WEST FACING TEE FOR FUTURE OFFTAKE (PO-009). INSTALL TEE, BLANK FLANGE AND THRUST BLOCK (TB-T02). SEE DWG R0602-R-PBID-PL-C-0401 FOR OFFTAKE SCHEDULE AND R0602-R-PBID-PL-C-0501 FOR THRUST BLOCK DETAILS. LOCATION TO BE CONFIRMED ON SITE WITH SUPERINTENDENT.

PLAN
SCALE 1:1000



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200

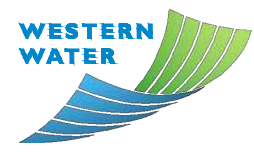


WARNING
BEWARE OF UNDERGROUND SERVICES. THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

FOR TENDER
NOT FOR CONSTRUCTION

CAD FILE NAME: \\BECA.NET\PROJECTS\658\6584\39\CAD\R0602-R-PBID-PL-C-0114 TO 0126.DWG

DESIGNED	CD	DRAWN	JB
DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		
DATE	25.03.21	DAP	
REV	ZONE	DESCRIPTION	APP'D
T0		ISSUE FOR TENDER	DAP



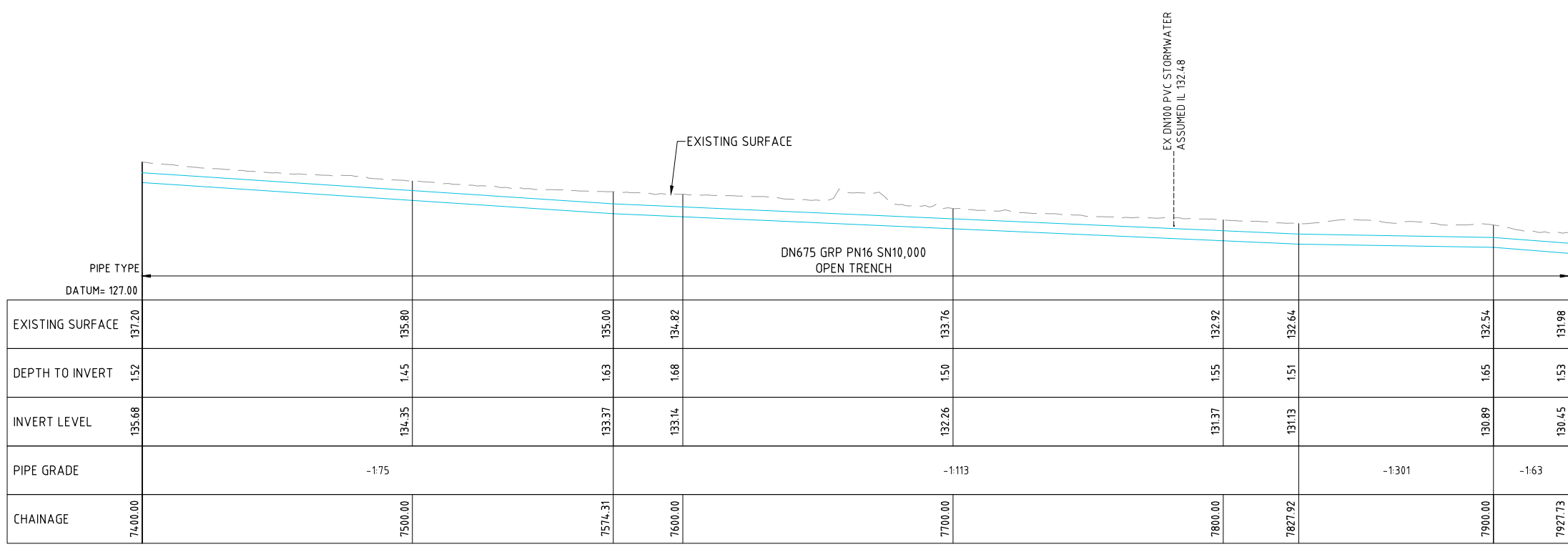
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 14

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0114	T0
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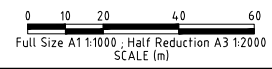
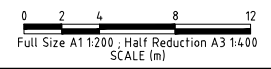


PLAN
SCALE 1:1000

- NOTES:**
1. REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 2. REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.
 3. DEPTH OF UNDERGROUND SERVICES IS UNKNOWN. ASSUMED 600mm COVER.



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



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

FOR TENDER
NOT FOR CONSTRUCTION

CAD FILE NAME: \\BECA.NET\PROJECTS\65816584\39\CAD\R0602-R-PBID-PL-C-0115 TO 0126.DWG

TO	ISSUE FOR TENDER	25.03.21	DAP	
REV	ZONE	DESCRIPTION	DATE	APP'D

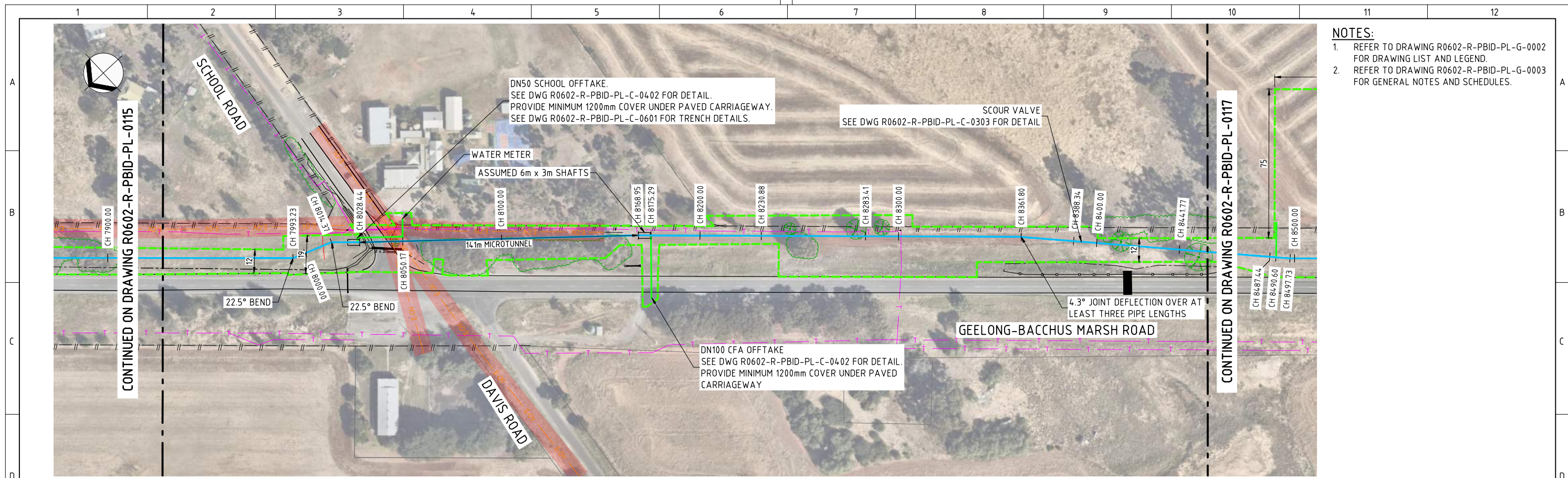


DESIGNED CD	DRAWN JB
DESIGN CHECK LS	DRAFT CHECK AGS
APPROVED DAP	



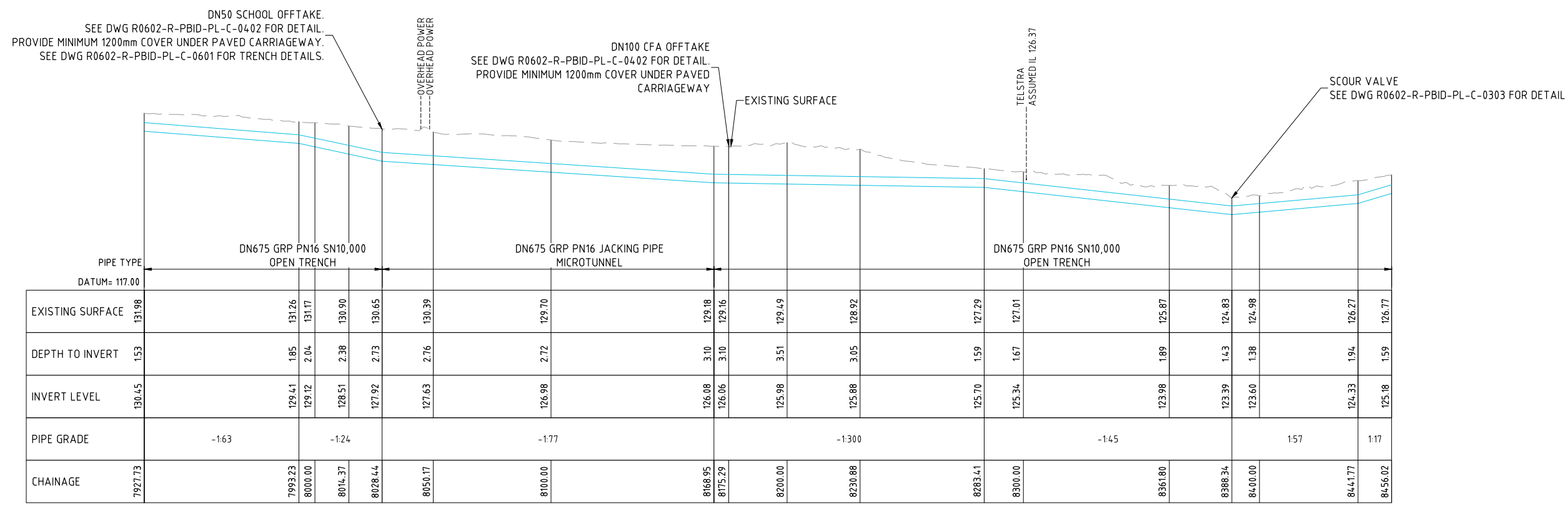
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 15

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0115	T0
NUMERAL	REV



PLAN
SCALE 1:1000

- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



WARNING
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FOR TENDER
NOT FOR CONSTRUCTION

DESIGNED	CD	DRAWN	JB	
DESIGN CHECK	LS	DRAFT CHECK	AGS	
APPROVED	DAP			
TO	ISSUE FOR TENDER	25.03.21	DAP	
REV	ZONE	DESCRIPTION	DATE	APP'D



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DESIGN CHECK	LS	DRAFT CHECK	AGS
APPROVED	DAP		



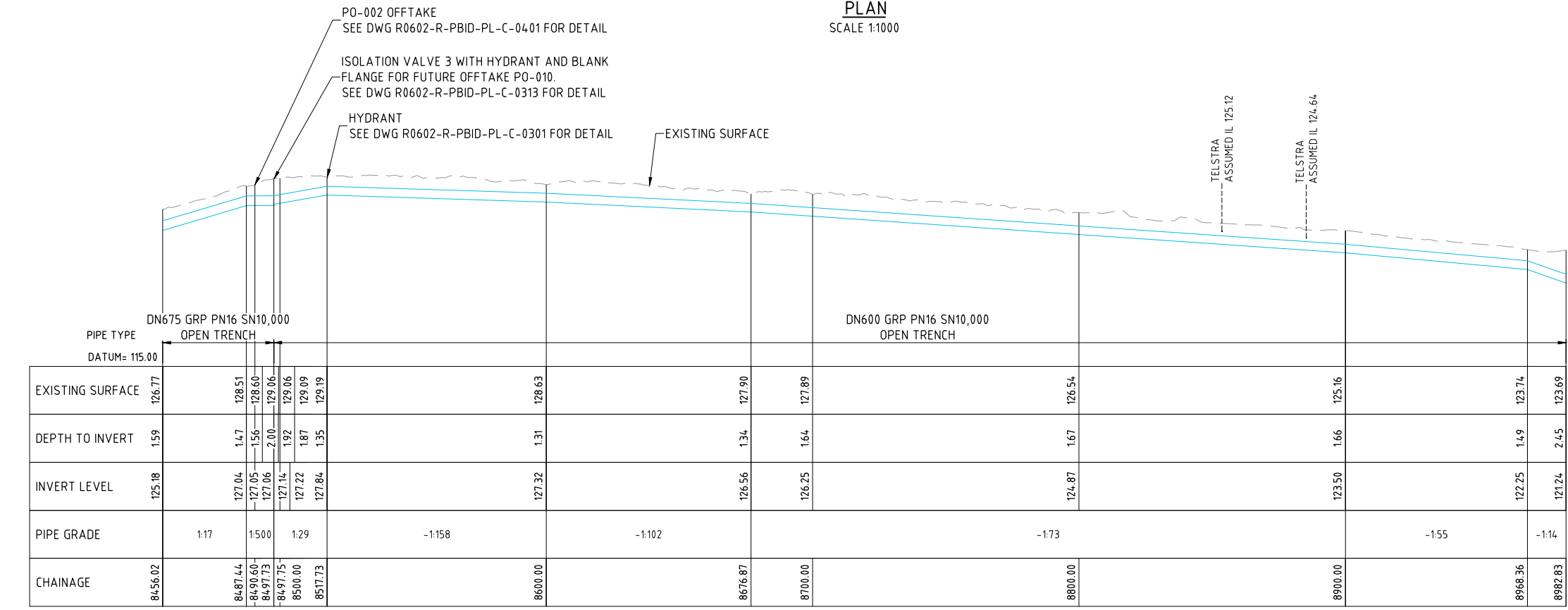
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 16

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0116	T0
NUMERAL	REV

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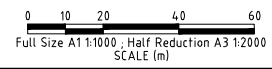
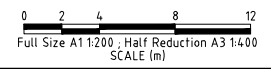


- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.
 - DEPTH OF UNDERGROUND SERVICES IS UNKNOWN. ASSUMED 600mm COVER.



WARNING
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CAD FILE NAME: \\BECA.NET\PROJECTS\658439\CAD\R0602-R-PBID-PL-C-0117 TO 0126.DWG

REV	ZONE	DESCRIPTION	DATE	APP'D
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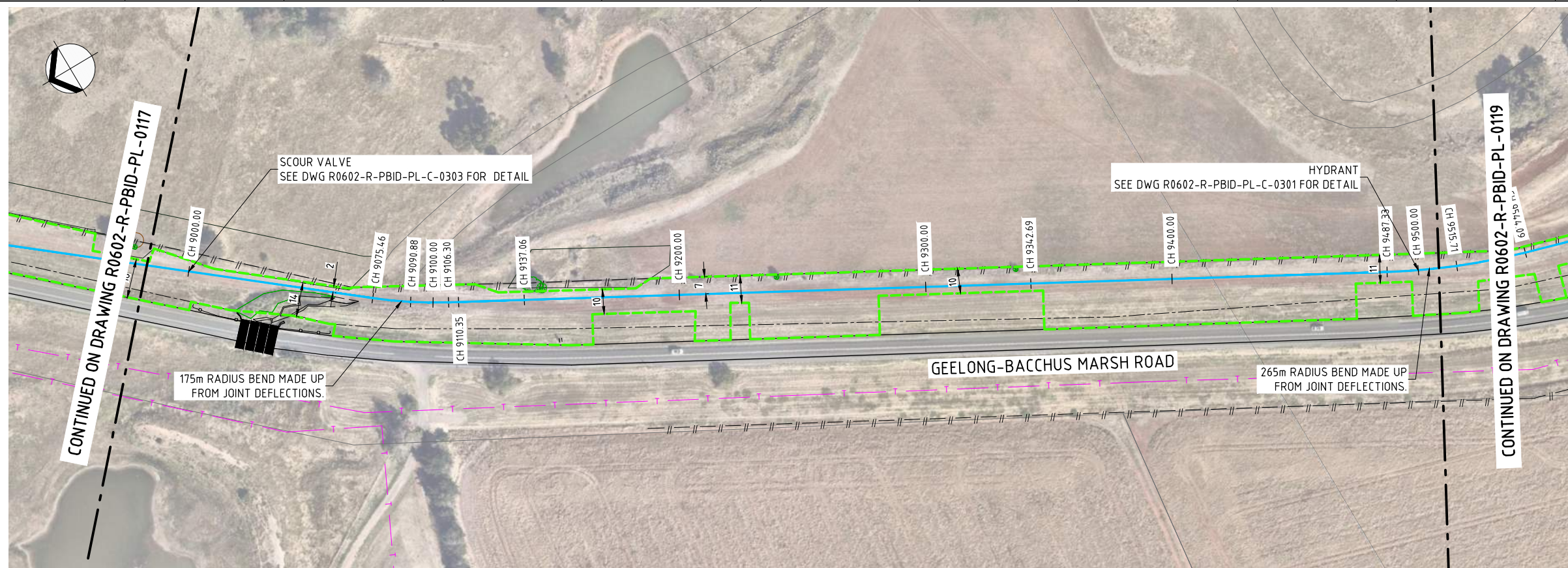


DESIGNED CD
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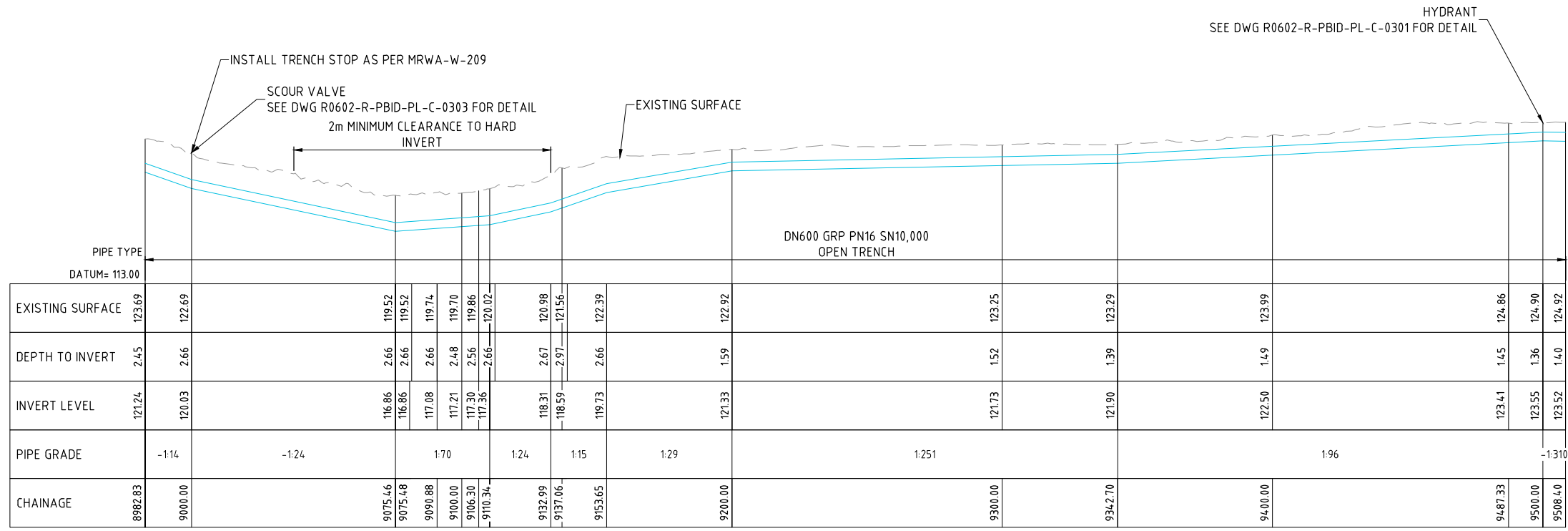
PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 17

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0117	T0
NUMERAL	REV

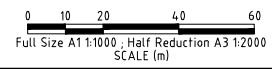


PLAN
SCALE 1:1000

- NOTES:**
- REFER TO DRAWING R0602-R-PBID-PL-G-0002 FOR DRAWING LIST AND LEGEND.
 - REFER TO DRAWING R0602-R-PBID-PL-G-0003 FOR GENERAL NOTES AND SCHEDULES.



LONGITUDINAL SECTION
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:200



WARNING
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CAD FILE NAME: \\BECA.NET\PROJECTS\6584\6584\39\CAD\R0602-R-PBID-PL-C-0118 TO R126.DWG

TO	ISSUE FOR TENDER	25.03.21	DAP	
REV	ZONE	DESCRIPTION	DATE	APP'D



DESIGNED
CD

DESIGN CHECK
LS

APPROVED
DAP



PARWAN TO BALLIANG IRRIGATION DISTRICT PIPELINE
PLAN AND LONGITUDINAL SECTION
SHEET 18

PLAN TYPE:	CIVIL
SCALE:	AS SHOWN
DRAWING NUMBER	
R0602-R-PBID-PL-C-0118	T0
NUMERAL	REV