

AMENDED IN RED

By: Marco Bonotto

Date: 25/07/2024



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2023/1412

Date: 23/08/2024

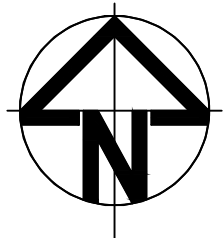
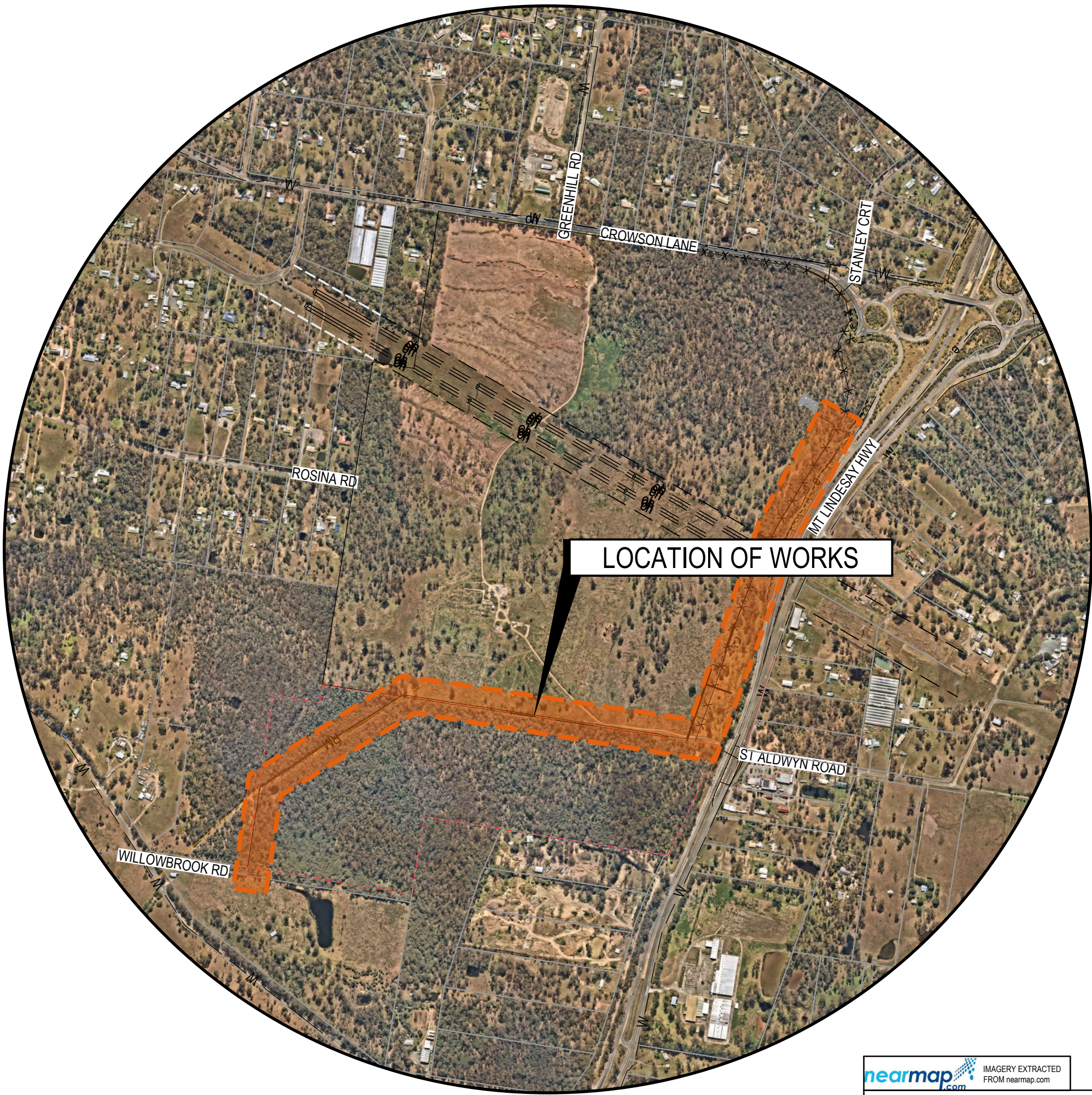


FLAGSTONE LOGISTICS ESTATE, NORTH MACLEAN

OPERATIONAL WORKS - SEWERAGE RISING MAIN

LOGAN CITY COUNCIL

DRAWING SCHEDULE	
DRG No.	DESCRIPTION
GENERAL	
0399	COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE
0400	RISK REGISTER SHEET 1
0401	RISK REGISTER SHEET 2
SEWER	
0402	SEWERAGE RISING MAIN SURVEY/KEY PLAN AND SETOUT
0403	SEWERAGE RISING MAIN LAYOUT PLAN SHEET 1
0404	SEWERAGE RISING MAIN LAYOUT PLAN SHEET 2
0405	SEWERAGE RISING MAIN LAYOUT PLAN SHEET 3
0406	SEWERAGE RISING MAIN LAYOUT PLAN SHEET 4
0407	SEWERAGE RISING MAIN LAYOUT PLAN SHEET 5
0408	SEWERAGE RISING MAIN LAYOUT PLAN SHEET 6
0409	SEWERAGE RISING MAIN LAYOUT PLAN SHEET 7
0410	SEWERAGE RISING MAIN SECTIONS SHEET 1
0411	SEWERAGE RISING MAIN SECTIONS SHEET 2
0412	SEWERAGE RISING MAIN SECTIONS SHEET 3
0413	SEWERAGE RISING MAIN SECTIONS SHEET 4
0414	ULTIMATE SEWERAGE RISING MAIN LAYOUT PLAN - DRAWING DELETED
0418	SEWERAGE RISING MAIN DETAILS SHEET 1
0419	SEWERAGE RISING MAIN DETAILS SHEET 2
0455	SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760-1200 LAYOUT 1
0456	SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760-1200 LAYOUT 2
0457	SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760-1200 LAYOUT 3
0470	SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760-1200 SECTIONS SHEET 1
0471	SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760-1200 SECTIONS SHEET 2



LOCALITY PLAN
1 : 10000

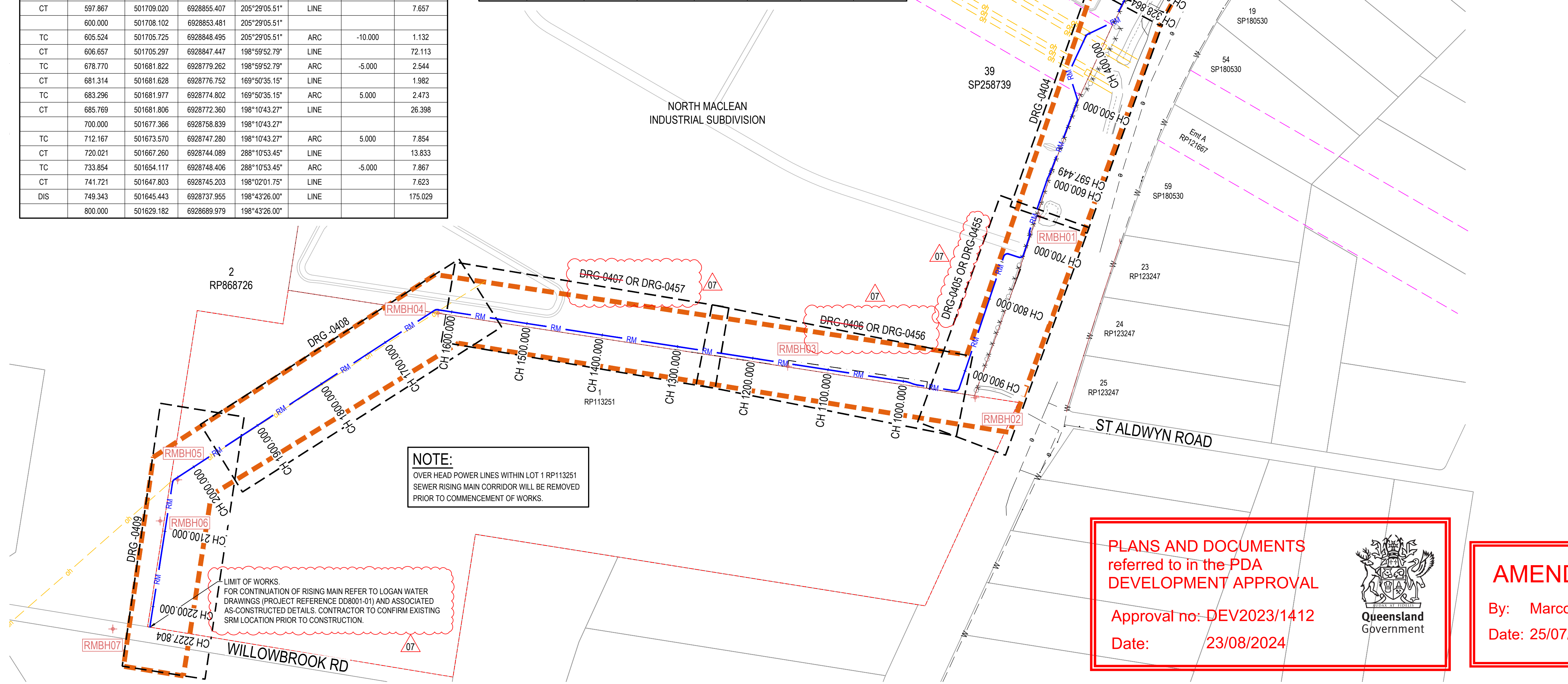
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					Scales					Surveyor					Client					Status					Project					 Arcadis Australia Pacific Pty Limited Level 35, 111 Eagle Street BRISBANE QLD 4000 ABN 76 104 485 289 Tel No: +61 7 3337 0000 www.arcadis.com/au <table><tr><td>Project No.</td><td>Folder Prefix</td><td>Zone Stage Phase</td><td>Discipline</td><td>Type</td><td>Drawing No.</td><td>Issue</td></tr><tr><td>30109334</td><td>- AAP</td><td>- WS000P</td><td>- CV</td><td>- DRG</td><td>- 0399</td><td>- 06</td></tr></table>					Project No.	Folder Prefix	Zone Stage Phase	Discipline	Type	Drawing No.	Issue	30109334	- AAP	- WS000P	- CV	- DRG	- 0399	- 06																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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SEWER RISING MAIN							
PT	CHAINAGE	EASTING	NORTHING	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
S	0.000	501904.620	6929352.744	120°04'04.99"	LINE		44.828
TC	44.828	501943.415	6929330.284	120°04'04.99"	ARC	5.000	7.727
CT	52.555	501945.299	6929323.562	208°36'53.45"	LINE		22.147
TC	74.702	501934.693	6929304.120	208°36'53.45"	ARC	-5.000	2.093
CT	76.795	501934.098	6929302.129	184°37'30.74"	LINE		12.616
TC	89.411	501933.081	6929289.554	184°37'30.74"	ARC	5.000	2.408
CT	91.820	501932.327	6929287.291	212°13'28.45"	LINE		126.036
	100.000	501927.965	6929280.371	212°13'28.45"			
	200.000	501874.641	6929195.774	212°13'28.45"			
DIS	217.856	501865.119	6929180.668	210°49'03.45"	LINE		17.572
TT	235.428	501856.117	6929165.578	210°49'03.45"	LINE		10.104
TT	245.532	501850.941	6929156.901	210°49'03.45"	LINE		83.332
	300.000	501823.037	6929110.123	210°49'03.45"			
DIS	328.864	501808.250	6929085.335	207°15'53.45"	LINE		35.215
TC	364.078	501792.118	6929054.033	207°15'53.45"	ARC	5.000	3.264
CT	367.342	501789.813	6929051.804	244°39'42.72"	LINE		35.118
	400.000	501760.297	6929037.828	244°39'42.72"			
TC	402.460	501758.073	6929036.775	244°39'42.72"	ARC	-5.000	3.461
CT	405.921	501755.682	6929034.370	205°00'25.01"	LINE		50.983
TC	456.904	501734.130	6928988.166	205°00'25.01"	ARC	-5.000	3.722
CT	460.626	501733.896	6928984.536	162°21'06.67"	LINE		34.342
TC	494.968	501744.308	6928951.811	162°21'06.67"	ARC	5.000	3.345
CT	498.314	501744.221	6928948.528	200°41'12.28"	LINE		98.716
	500.000	501743.625	6928946.951	200°41'12.28"			
TC	597.030	501709.348	6928856.177	200°41'12.28"	ARC	10.000	0.837
CT	597.867	501709.020	6928855.407	205°29'05.51"	LINE		7.657
	600.000	501708.102	6928853.481	205°29'05.51"			
TC	605.524	501705.725	6928848.495	205°29'05.51"	ARC	-10.000	1.132
CT	606.657	501705.297	6928847.447	198°59'52.79"	LINE		72.113
TC	678.770	501681.822	6928779.262	198°59'52.79"	ARC	-5.000	2.544
CT	681.314	501681.628	6928776.752	169°50'35.15"	LINE		1.982
TC	683.296	501681.977	6928774.802	169°50'35.15"	ARC	5.000	2.473
CT	685.769	501681.806	6928772.360	198°10'43.27"	LINE		26.398
	700.000	501677.366	6928758.839	198°10'43.27"			
TC	712.167	501673.570	6928747.280	198°10'43.27"	ARC	5.000	7.854
CT	720.021	501667.260	6928744.089	288°10'53.45"	LINE		13.833
TC	733.854	501654.117	6928748.406	288°10'53.45"	ARC	-5.000	7.867
CT	741.721	501647.803	6928745.203	198°02'01.75"	LINE		7.623
DIS	749.343	501645.443	6928737.955	198°43'26.00"	LINE		175.029
	800.000	501629.182	6928689.979	198°43'26.00"			

SEWER RISING MAIN							
PT	CHAINAGE	EASTING	NORTHING	BEARING	DEP.SEG	DEP.RAD	DEP.LEN
	900.000	501597.081	6928595.271	198°43'26.00"			
TC	924.372	501589.257	6928572.189	198°43'26.00"	ARC	5.000	6.982
CT	931.354	501583.763	6928568.852	278°43'38.46"	LINE		50.919
TC	982.273	501533.434	6928576.578	278°43'38.46"	ARC	20.000	4.056
CT	986.329	501529.514	6928577.595	290°20'51.92"	LINE		5.866
TC	992.195	501524.015	6928579.634	290°20'51.92"	ARC	-20.000	4.056
CT	996.251	501520.095	6928580.651	278°43'38.01"	LINE		623.344
	1000.000	501516.389	6928581.219	278°43'38.01"			
	1100.000	501417.547	6928596.393	278°43'38.01"			
	1200.000	501318.705	6928611.566	278°43'38.01"			
	1300.000	501219.863	6928626.739	278°43'38.01"			
	1400.000	501121.021	6928641.912	278°43'38.01"			
	1500.000	501022.178	6928657.085	278°43'38.01"			
	1600.000	500923.336	6928672.258	278°43'38.01"			
TC	1619.595	500903.968	6928675.231	278°43'38.01"	ARC	-5.000	3.642
CT	1623.237	500900.486	6928674.482	236°59'49.94"	LINE		407.695
	1700.000	500836.109	6928632.671	236°59'49.94"			
	1800.000	500752.244	6928578.203	236°59'49.94"			
	1900.000	500668.380	6928523.735	236°59'49.94"			
	2000.000	500584.516	6928469.267	236°59'49.94"			
TC	2030.932	500558.575	6928452.419	236°59'49.94"	ARC	-5.000	4.195
CT	2035.127	500556.359	6928449.001	188°55'28.98"	LINE		192.677
	2100.000	500546.294	6928384.914	188°55'28.98"			
	2200.000	500530.781	6928286.125	188°55'28.98"			
E	2227.804	500526.467	6928258.657	188°55'28.98"			



LEGEND	
RM	PROPOSED SEWER RISING MAIN
swd	EXISTING STORMWATER DRAINAGE
W	EXISTING WATER RETICULATION
c	EXISTING COMMUNICATIONS
oh	EXISTING OVERHEAD ELECTRICAL
e	EXISTING UNDERGROUND ELECTRICAL
	POWERLINK EASEMENT
	EXISTING FENCE
	PROPOSED LOCATION OF WORKS
	SITE BOUNDARY LOT 39 ON SP258739
	SITE BOUNDARY LOT 1 ON RP113251
	BOREHOLES

NOTES

- THE EXISTING UTILITY SERVICES INFORMATION SHOWN HAS BEEN COMPILED FROM THE FOLLOWING:
 - DIAL BEFORE YOU DIG INFORMATION
 - WOLTER CONSULTING GROUP DETAIL SURVEY (REF 21-0432S-01)
- EXISTING SITE CONTOURS SHOWN ARE BASED ON A COMBINATION OF LIDAR INFORMATION AND DETAILED SURVEY PICKUP COMPLETED BY WOLTER CONSULTING GROUP.
- THE INFORMATION IS NOT INTENDED TO PROVIDE THE CONTRACTOR WITH COMPLETE OR ACCURATE INFORMATION CONCERNING THE LOCATION & EXTENT OF UTILITY SERVICES.
- THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH & EXTENT OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ANY DAMAGE INCURRED TO EXISTING UTILITY SERVICES AS A RESULT OF THE EXECUTION OF WORK UNDER THE CONTRACT.
- NO WORK SHALL BE CARRIED OUT WITHIN 3 METRES OF ANY EXISTING SERVICES WITHOUT PRIOR RECORDED CONSULTATION WITH THE RELEVANT AUTHORITY.
- ALL EXISTING SERVICES & STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT & WHERE RELOCATION IS REQUIRED, REFER SPECIFICATION.
- TREE CLEARING IS REQUIRED FOR SEWER RISING MAIN CONSTRUCTION. REFER TO ECOLOGY REPORT BY 28 SOUTH ENVIRONMENTAL DATED 24 JANUARY 2023.

WARNING

EXISTING SERVICES LOCATED IN THIS AREA. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS.

BORE LOCATIONS (COORDINATES)

BOREHOLE	DEPTH (m)	EASTING	NORTHING
PSBH01	12.45	501855	6929402
PSBH02	13.5	501850	6929408
PSBH03	12.0	501883	6929380
RMBH01	4.0	501695	6928797
RMBH02	4.0	501611	6928562
RMBH03	4.0	501364	6928601
RMBH04	4.0	500905	6928671
RMBH05	4.1	500563	6928452
RMBH06	8.0	500540	6928398
RMBH07	8.0	500448	6928276

NOTE: FOR SITE GEOTECHNICAL INFORMATION, REFER TO GEOTECHNICAL REPORT: NORTH MACLEAN WWPS NM1 AND RISING MAIN STAGE 1 (DD8001), PG-8971 DONE BY PACIFIC GEOTECH, 1ST DECEMBER 2022.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

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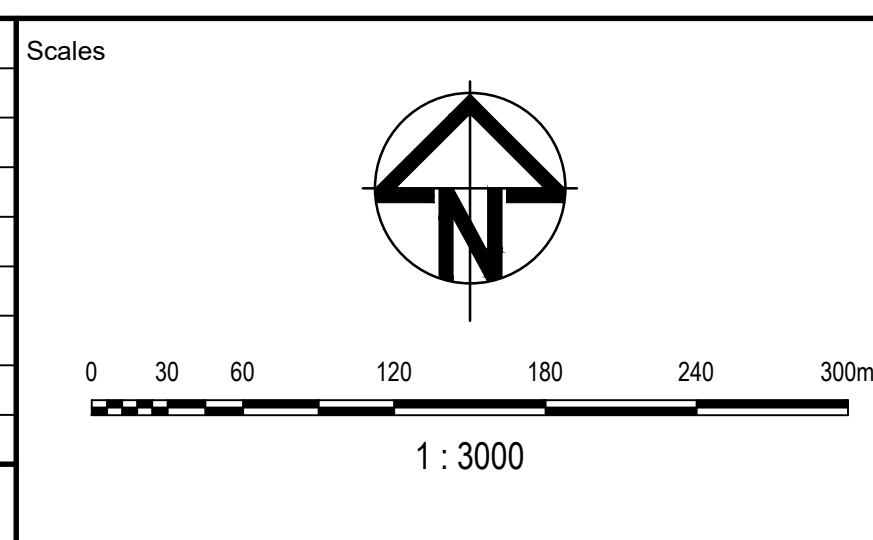


AMENDED IN RED

By: Marco Bonotto
Date: 25/07/2024



07	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	G.E.	29.05.24
06	FOR APPROVAL	A.O.	G.P.	G.E.	19.04.24
05	FOR APPROVAL	A.O.	G.P.	R.M.	27.03.24
04	FOR APPROVAL - RESPONSE TO RFI	A.O.	A.J.	R.M.	23.02.24
03	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	R.M.	31.08.23
02	FOR APPROVAL	A.O.	S.S.	R.M.	25.05.23
01	FOR APPROVAL	A.O.	S.S.	R.M.	15.05.23
Issue	Description	DR	CH	VE	Date



Surveyor
WOLTER consulting group
Planning Urban Design Landscape Environment Surveying

Architect
Charter Hall

Client
Charter Hall

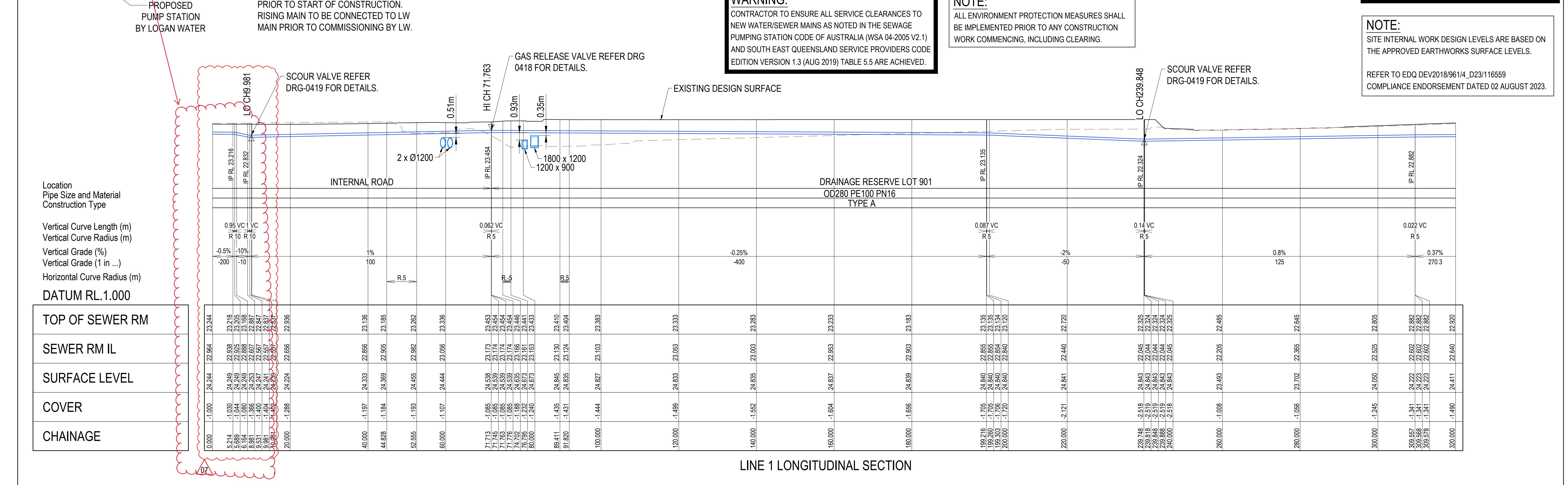
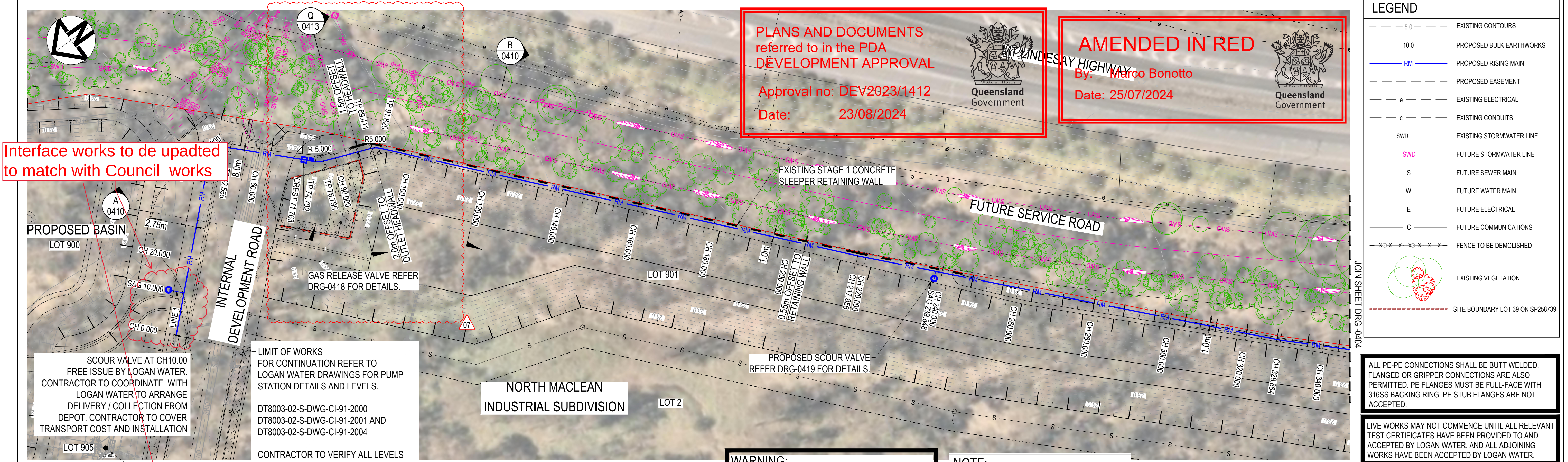
FOR APPROVAL			
© Copyright reserved			
Original Issue Signatures			
Drawn	A. OSORIO	Original Size	A1
Designed	G. PUMNUT	Height Datum	AHD
Project Manager	B. KITSON	Grid	GDA 2020 ZONE 56
Verified	G. ELLIS	R.P.E.Q. No: 17942 Date: 31.05.2024	

Project
4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title
SEWERAGE RISING MAIN SURVEY/KEY PLAN AND SETOUT

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289
Tel No: +61 7 3337 0000
www.arcadis.com/au

Project No: 30109334 - AAP - WS000P - CV - DRG-0402-07



07	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	G.E.	31.05.24
06	FOR APPROVAL	A.O.	G.P.	G.E.	19.04.24
05	FOR APPROVAL	A.O.	G.P.	R.M.	27.03.24
04	FOR APPROVAL - RESPONSE TO RFI	A.O.	A.J.	R.M.	23.02.24
03	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	R.M.	31.08.23
02	FOR APPROVAL	A.O.	S.S.	R.M.	25.05.23
01	FOR APPROVAL	A.O.	S.S.	R.M.	15.05.23
Issue	Description	DR	CH	VE	Date

Scales

PLAN

0 5 10 20 30 40 50m

1 : 500

LONGITUDINAL SECTION

0 5 10 20 30 40 50m

HORZ 1 : 500

0 5 10 15 20 25m

VERT 1 : 250

Surveyor

WOLTER consulting group

Planning Urban Design Landscape Environment Surveying

Architect

Charter Hall

Client

FOR APPROVAL

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Original Issue Signatures

Drawn A. OSORIO

Original Size A1

Designed G. PUMNUT

Height Datum AHD

Project Manager B. KITSON

Grid GDA 2020 ZONE 56

Verified G.ELLIS

R.P.E.Q. No: 17942

Date 31.05.2024

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

SEWERAGE RISING MAIN LAYOUT PLAN SHEET 1

ARCADIS

Arcadis Australia Pacific Pty Limited

Level 35, 111 Eagle Street

BRISBANE QLD 4000

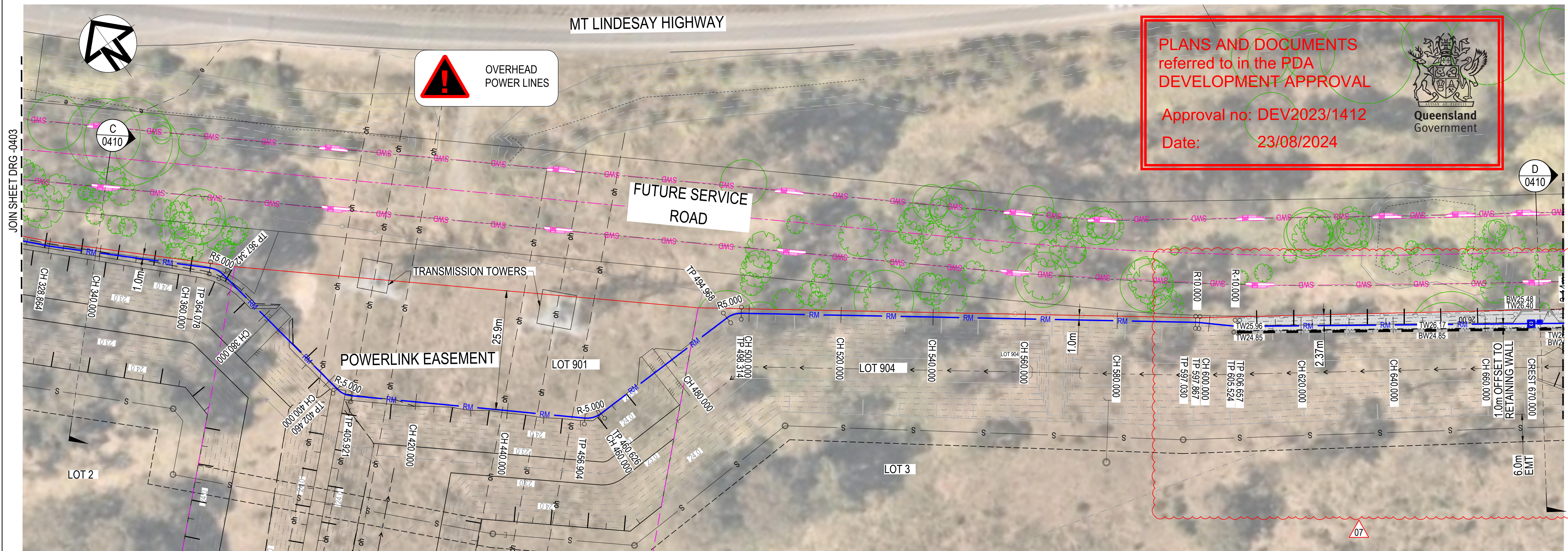
ABN 76 104 485 289

Tel No: +61 7 3337 0000

www.arcadis.com/au

Project No. Folder Prefix Zone Stage Phase Discipline Type Drawing No. Issue

30109334 - AAP - WS000P - CV - DRG - 0403 - 07



LEGEND

- 5.0 EXISTING CONTOURS
- 10.0 PROPOSED BULK EARTHWORKS
- RM PROPOSED RISING MAIN
- PROPOSED EASEMENT
- e EXISTING ELECTRICAL
- c EXISTING CONDUITS
- SWD EXISTING STORMWATER LINE
- oh EXISTING OVERHEAD POWER LINES
- POWERLINK EASEMENT
- SWD FUTURE STORMWATER LINE
- S FUTURE SEWER MAIN
- W FUTURE WATER MAIN
- E FUTURE ELECTRICAL
- C FUTURE COMMUNICATIONS
- FENCE TO BE DEMOLISHED
- EXISTING VEGETATION
- SITE BOUNDARY LOT 39 ON SP258739

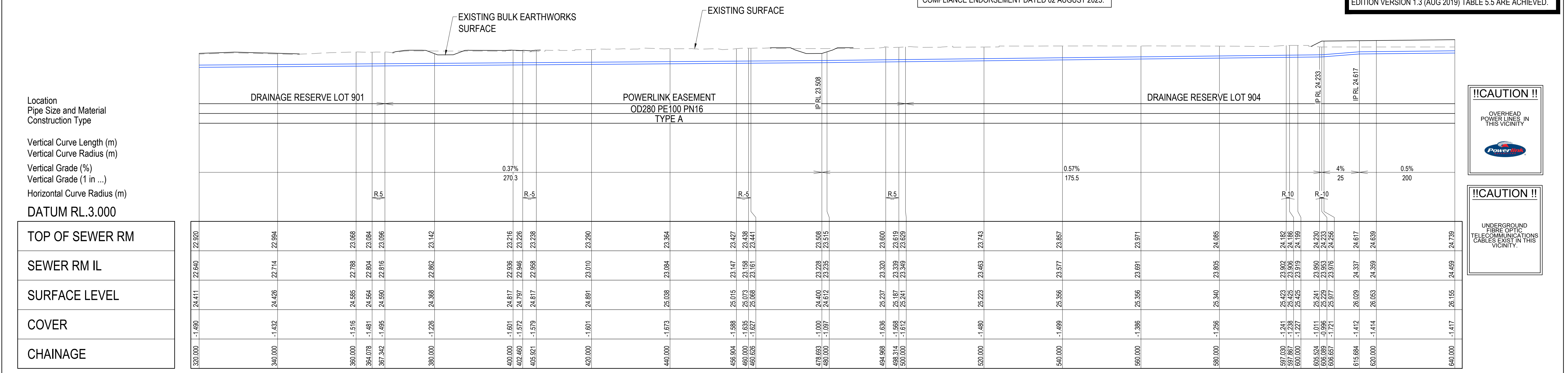
ALL PE-PE CONNECTIONS SHALL BE BUTT WELDED. FLANGED OR GRIPPER CONNECTIONS ARE ALSO PERMITTED. PE FLANGES MUST BE FULL-FACE WITH 316SS BACKING RING. PE STUB FLANGES ARE NOT ACCEPTED.

LIVE WORKS MAY NOT COMMENCE UNTIL ALL RELEVANT TEST CERTIFICATES HAVE BEEN PROVIDED TO AND ACCEPTED BY LOGAN WATER, AND ALL ADJOINING WORKS HAVE BEEN ACCEPTED BY LOGAN WATER.

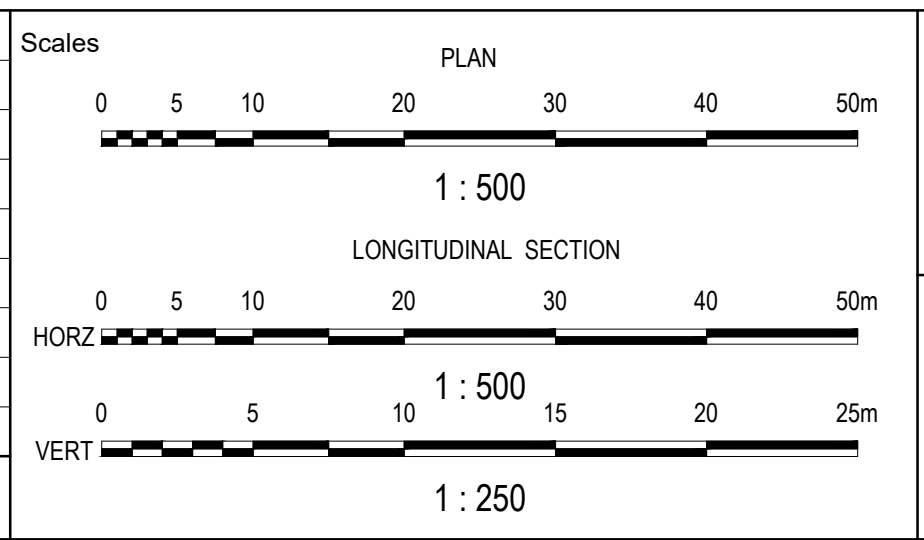
NOTE:
SITE INTERNAL WORK DESIGN LEVELS ARE BASED ON THE APPROVED EARTHWORKS SURFACE LEVELS.
REFER TO EDQ DEV2018/961/4_D23/116559 COMPLIANCE ENDORSEMENT DATED 02 AUGUST 2023.

NOTE:
ALL ENVIRONMENT PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING.

WARNING:
CONTRACTOR TO ENSURE ALL SERVICE CLEARANCES TO NEW WATER/SEWER MAINS AS NOTED IN THE SEWAGE PUMPING STATION CODE OF AUSTRALIA (WSA 04-2005 V2.1) AND SOUTH EAST QUEENSLAND SERVICE PROVIDERS CODE EDITION VERSION 1.3 (AUG 2019) TABLE 5.5 ARE ACHIEVED.



Issue	Description	DR	CH	VE	Date
07	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	G.E.	29.05.24
06	FOR APPROVAL	A.O.	G.P.	G.E.	19.04.24
05	FOR APPROVAL	A.O.	G.P.	R.M.	27.03.24
04	FOR APPROVAL - RESPONSE TO RFI	A.O.	A.J.	R.M.	23.02.24
03	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	R.M.	31.08.23
02	FOR APPROVAL	A.O.	S.S.	R.M.	25.05.23
01	FOR APPROVAL	A.O.	S.S.	R.M.	15.05.23



Surveyor
WOLTER
consulting group
Planning Urban Design Landscape Environment Surveying

Architect
Charter Hall

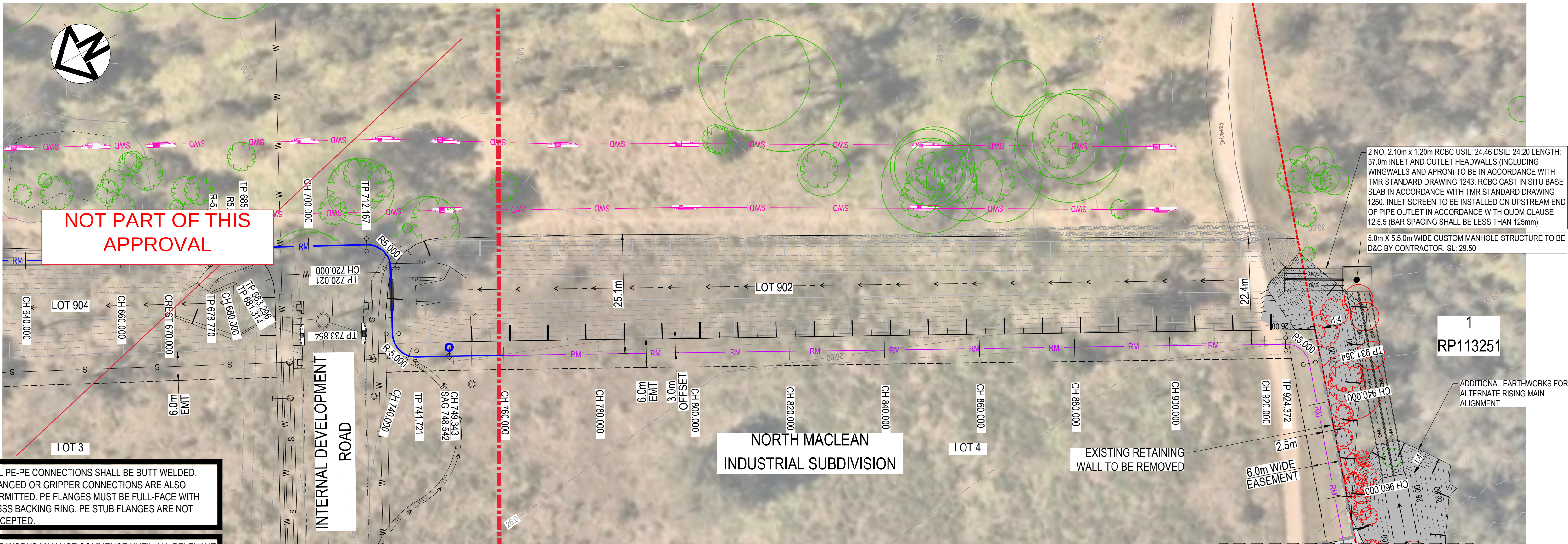
Client
Charter Hall

Status
FOR APPROVAL
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Original Issue Signatures
Drawn A. OSORIO Original Size A1
Designed G. PUMNUT Height Datum AHD
Project Manager B. KITSON Grid GDA 2020 ZONE 56
Verified G. ELLIS R.P.E.Q. No: 17942 Date 31.05.2024

Project
4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN
SEWERAGE RISING MAIN LAYOUT PLAN SHEET 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289
Tel No: +61 7 3337 0000
www.arcadis.com/au

Project No. 30109334 - AAP - WS000P - CV - DRG - 0404 - 07



LEGEND

- 5.0 EXISTING CONTOURS
- 10.0 PROPOSED BULK EARTHWORKS
- RM PROPOSED RISING MAIN
- RM PROPOSED ALTERNATE RISING MAIN
- PROPOSED EARTHWORKS FILL AREA
- PROPOSED EARTHWORKS CUT AREA
- PROPOSED EASEMENT
- SWD FUTURE STORMWATER LINE
- S FUTURE SEWER MAIN
- EXISTING VEGETATION
- SITE BOUNDARY LOT 1 ON RP113251
- CHANNEL INVERT

NOTE:
SITE INTERNAL WORK DESIGN LEVELS ARE BASED ON THE APPROVED EARTHWORKS SURFACE LEVELS.

REFER TO EDQ DEV2018/961/4_D23/116559
COMPLIANCE ENDORSEMENT DATED 02 AUGUST 2023.

NOTE:
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WARNING:
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AMENDED IN RED

By: Marco Bonotto
Date: 25/07/2024



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2023/1412
Date: 23/08/2024

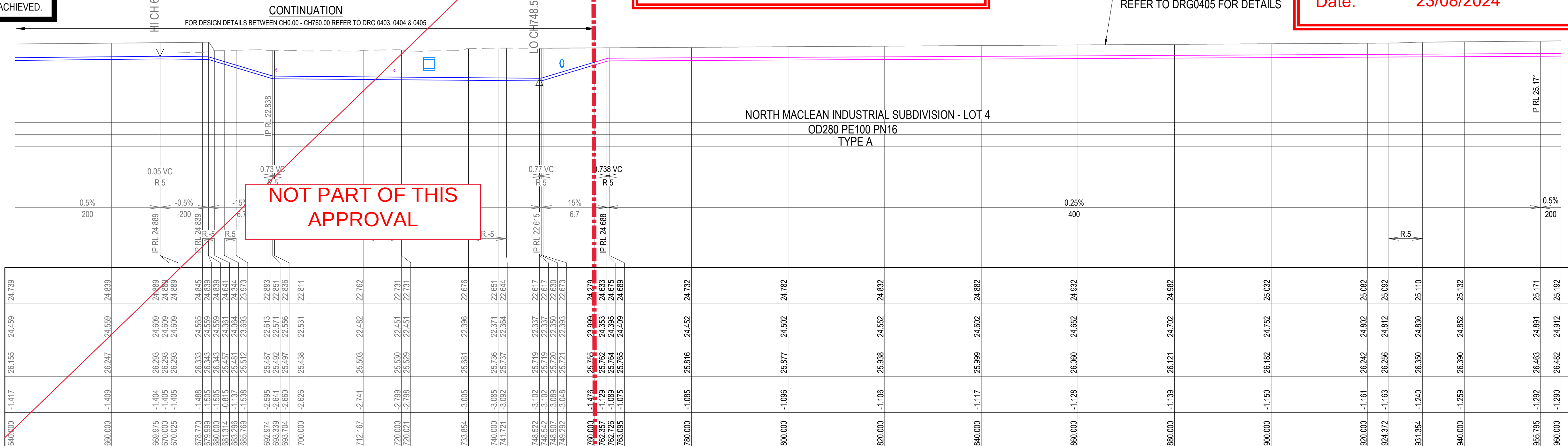


Location
Pipe Size and Material
Construction Type

Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Grade (%)
Vertical Grade (1 in ...)
Horizontal Curve Radius (m)

DATUM RL.3.000

TOP OF SEWER RM
SEWER RM IL
SURFACE LEVEL
COVER
CHAINAGE



!!CAUTION!!
OVERHEAD POWER LINES IN THIS VICINITY

!!CAUTION!!
UNDERGROUND FIBRE OPTIC TELECOMMUNICATIONS CABLES EXIST IN THIS VICINITY.

LINE 1 LONGITUDINAL SECTION

01 FOR APPROVAL

Issue

Description

DR

CH

VE

Date

01

31.05.24

Scales

PLAN

0 5 10 20 30 40 50m

1 : 500

LONGITUDINAL SECTION

0 5 10 20 30 40 50m

1 : 500

0 5 10 15 20 25m

1 : 250

Surveyor

WOLTER consulting group

Architect

Charter Hall

Status

FOR APPROVAL

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Original Issue Signatures

Drawn

A. OSORIO

Original Size

A1

Designed

G. PUMNUT

Height Datum

AHD

Project Manager

B. KITSON

Grid

GDA 2020 ZONE 56

Verified

G. ELLIS

R.P.E.Q. No: 17942

Date: 31.05.2024

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title

SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760-1260 LAYOUT PLAN SHEET 1

Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289
Tel No: +61 7 3337 0000
www.arcadis.com/au

Project No: 30109334 - AAP - WS00OP - CV - DRG - 0453 - SEWR Ultimate Alignment.dwg

Folker Prefix: AAP

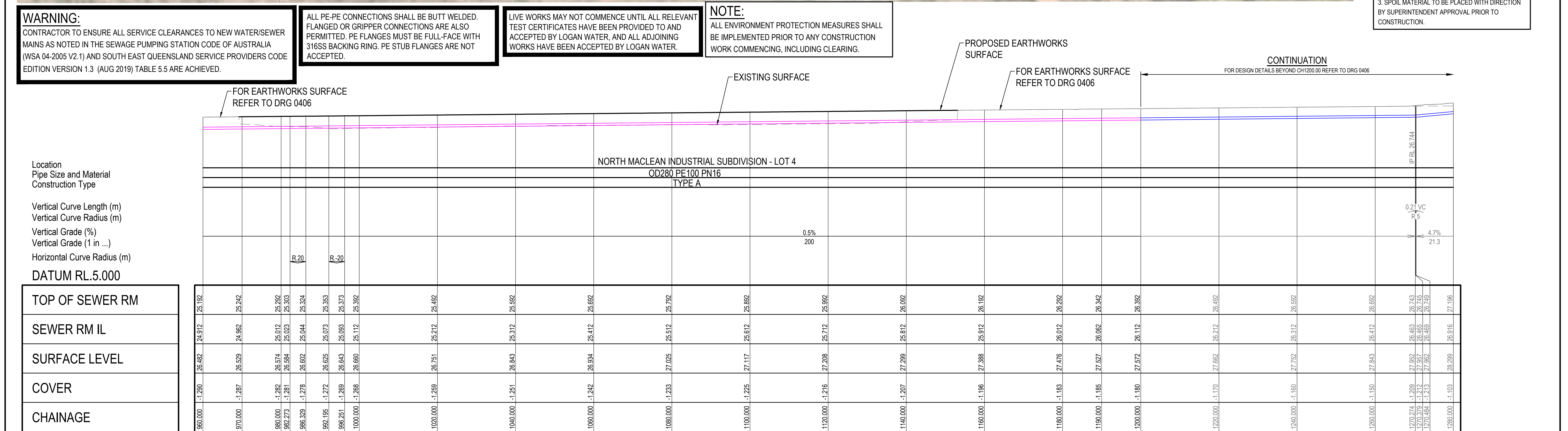
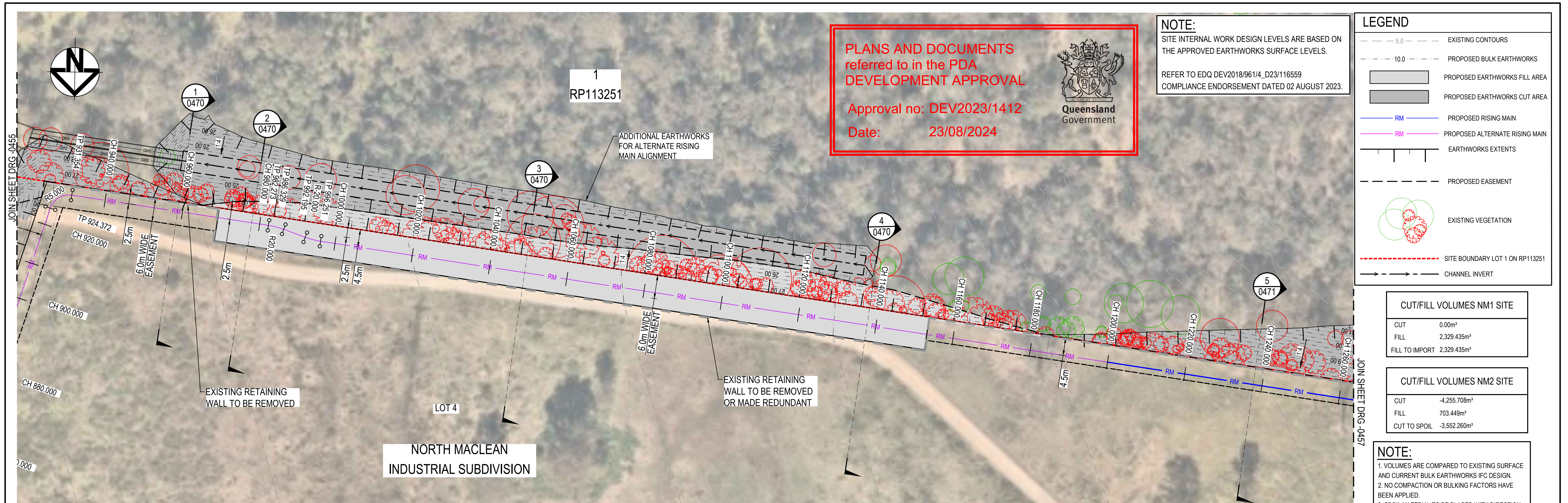
Zone | Stage | Phase: WS00OP - CV

Discipline: CV

Type: DRG

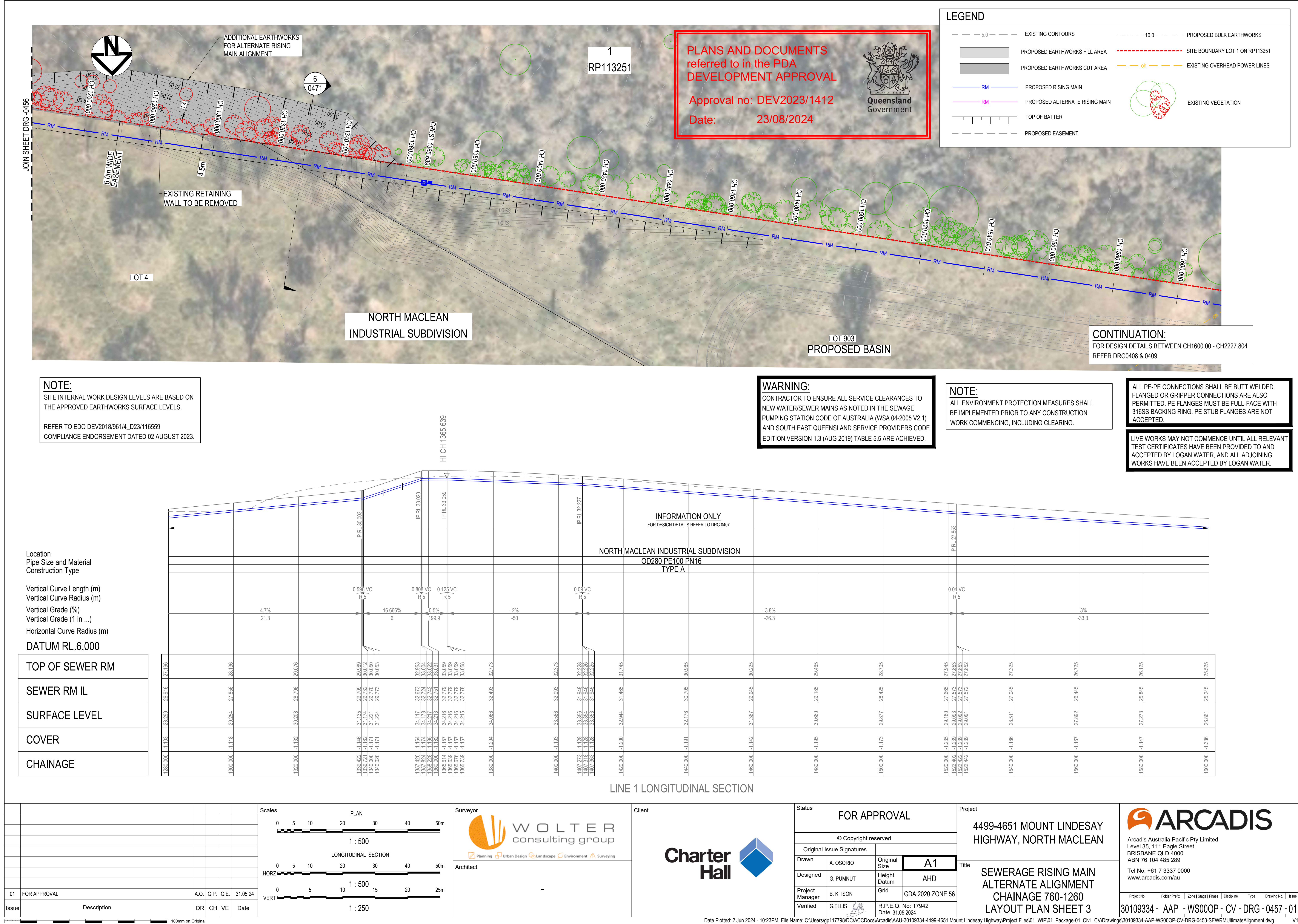
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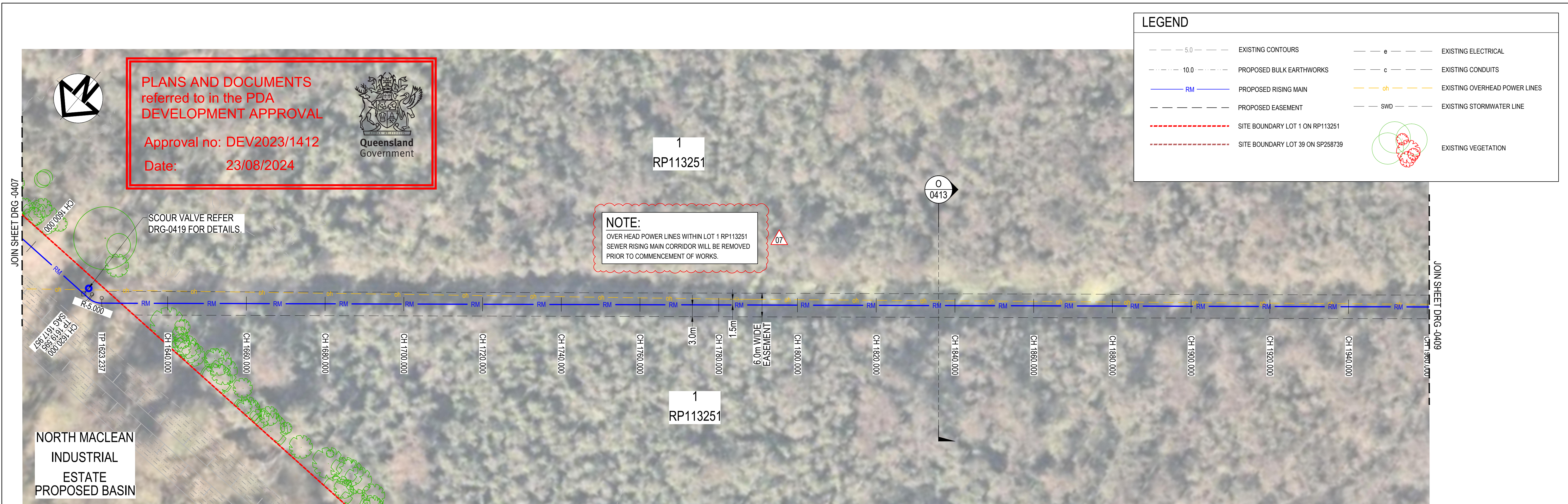
Issue: 01



LINE 1 LONGITUDINAL SECTION

Scales PLAN 0 5 10 20 30 40 50m 1 : 500 LONGITUDINAL SECTION 0 5 10 20 30 40 50m HORIZ 0 5 10 15 20 25m VERT 1 : 250		Surveyor WOLTER consulting group Planning Urban Design Landscape Environment Surveying		Client Charter Hall		Status FOR APPROVAL © Copyright reserved Original Issue Signatures Drawn A. OSORIO Original Size A1 Designed G. PUMNUT Height Datum AHD Project Manager B. KITSON Grid GDA 2020 ZONE 56 Verified G. ELLIS R.P.E.Q. No: 17942 Date 31.05.2024		Project 4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN Title SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760-1260 LAYOUT PLAN SHEET 2		ARCADIS Arcadis Australia Pacific Pty Limited Level 35, 111 Eagle Street BRISBANE QLD 4000 ABN 76 104 485 289 Tel No: +61 7 3337 0000 www.arcadis.com/au Project No. Folder Prefix Zone Stage Phase Discipline Type Drawing No. Issue 30109334 - AAP - WS00OP - CV - DRG - 0456 - 01	
01 FOR APPROVAL A.O. G.P. G.E. 31.05.24		Architect		Date Plotted: 3 Jun 2024 - 12:13AM File Name: C:\Users\sg117798\Documents\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package\01_Civil_CVD\Drawings\30109334-AAP-WS00OP-CV-DRG-0456-SEWRMUltimateAlignment.dwg							





NOTE:
SITE INTERNAL WORK DESIGN LEVELS ARE BASED ON
THE APPROVED EARTHWORKS SURFACE LEVELS.

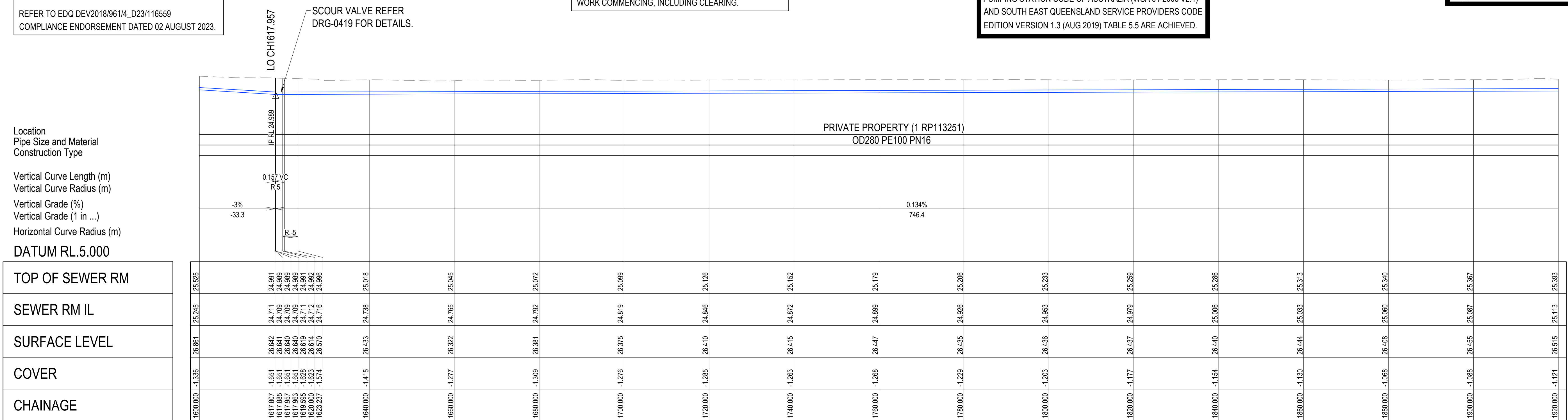
REFER TO EDQ DEV2018/961/4_D23/116559
COMPLIANCE ENDORSEMENT DATED 02 AUGUST 2023

NOTE:
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WARNING:
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NEW WATER/SEWER MAINS AS NOTED IN THE SEWAGE
PUMPING STATION CODE OF AUSTRALIA (WSA 04-2005 V2.1)
AND SOUTH EAST QUEENSLAND SERVICE PROVIDERS CODE
EDITION VERSION 1.3 (AUG 2019) TABLE 5.5 ARE ACHIEVED.

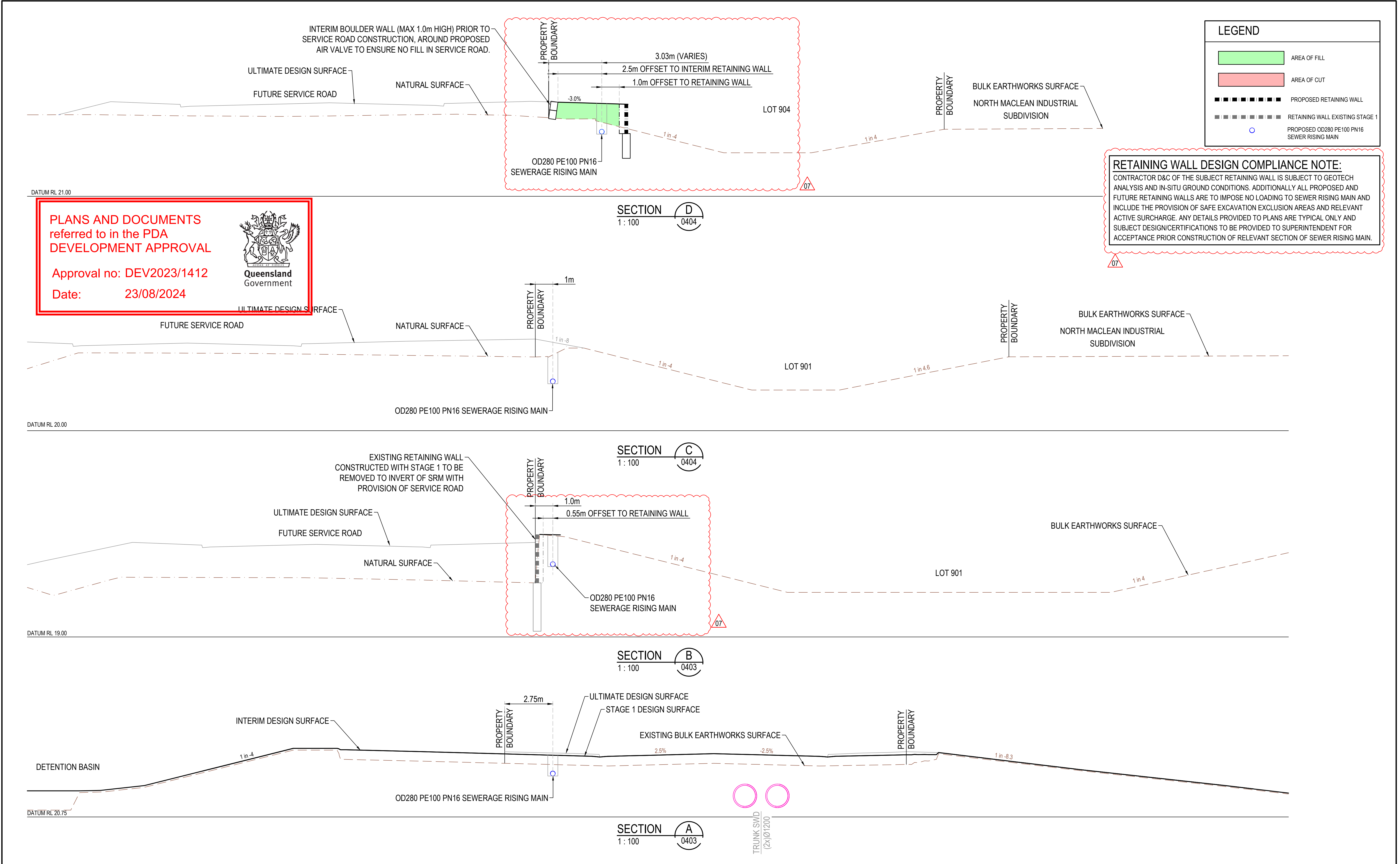
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LINE 1 LONGITUDINAL SECTION

					Scales		PLAN				Surveyor		Client		Status		Project		 Arcadis Australia Pacific Pty Limited Level 35, 111 Eagle Street BRISBANE QLD 4000 ABN 76 104 485 289 Tel No: +61 7 3337 0000 www.arcadis.com/au			
					0 5 10 20 30 40 50m		1 : 500				Architect				FOR APPROVAL		4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN					
															© Copyright reserved							
							LONGITUDINAL SECTION								Original Issue Signatures							
07 FOR APPROVAL - RESPONSE TO RFI					A.O. G.P. G.E. 31.05.24		0 5 10 20 30 40 50m		1 : 500						Drawn		A. OSORIO		Original Size		A1	
06 FOR APPROVAL					A.O. G.P. G.E. 19.04.24		HORIZ 0 5 10 20 30 40 50m		1 : 500						Designed		G. PUMNUT		Height Datum		AHD	
05 FOR APPROVAL					A.O. G.P. R.M. 27.03.24		0 5 10 15 20 25m		1 : 250						Project Manager		B. KITSON		Grid		GDA 2020 ZONE 56	
04 FOR APPROVAL - RESPONSE TO RFI					A.O. A.J. R.M. 23.02.24										Verified		G.ELLIS		R.P.E.Q. No: 17942 Date 31.05.2024			
03 FOR APPROVAL - RESPONSE TO RFI					A.O. G.P. R.M. 31.08.23																	
02 FOR APPROVAL					A.O. S.S. R.M. 25.05.23																	
01 FOR APPROVAL					A.O. S.S. R.M. 15.05.23																	
Issue Description					DR CH VE Date																	



LEGEND

AREA OF FILL

AREA OF CUT

PROPOSED RETAINING WALL

RETAINING WALL EXISTING STAGE 1

PROPOSED OD280 PE100 PN16 SEWER RISING MAIN

RETAINING WALL DESIGN COMPLIANCE NOTE:
CONTRACTOR D&C OF THE SUBJECT RETAINING WALL IS SUBJECT TO GEOTECH ANALYSIS AND IN-SITU GROUND CONDITIONS. ADDITIONALLY ALL PROPOSED AND FUTURE RETAINING WALLS ARE TO IMPOSE NO LOADING TO SEWER RISING MAIN AND INCLUDE THE PROVISION OF SAFE EXCAVATION EXCLUSION AREAS AND RELEVANT ACTIVE SURCHARGE. ANY DETAILS PROVIDED TO PLANS ARE TYPICAL ONLY AND SUBJECT DESIGN/CERTIFICATIONS TO BE PROVIDED TO SUPERINTENDENT FOR ACCEPTANCE PRIOR CONSTRUCTION OF RELEVANT SECTION OF SEWER RISING MAIN.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2023/1412

Date: 23/08/2024

Issue	Description	DR	CH	VE	Date
07	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	G.E.	31.05.24
06	FOR APPROVAL	A.O.	G.P.	G.E.	19.04.24
05	FOR APPROVAL	A.O.	G.P.	R.M.	27.03.24
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02	FOR APPROVAL	A.O.	S.S.	R.M.	25.05.23
01	FOR APPROVAL	A.O.	S.S.	R.M.	15.05.23

Scales

0 1 2 4 6 8 10m

1 : 100

Surveyor

Architect

-

Client

Status

FOR APPROVAL

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Original Issue Signatures

Drawn

A. OSORIO

Original Size

A1

Designed

G. PUMNUT

Height Datum

AHD

Project Manager

B. KITSON

Grid

GDA 2020 ZONE 56

Verified

G.ELLIS

R.P.E.Q. No: 17942

Date

31.05.2024

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title

SEWERAGE RISING MAIN SECTIONS SHEET 1

Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289
Tel No: +61 7 3337 0000
www.arcadis.com/au

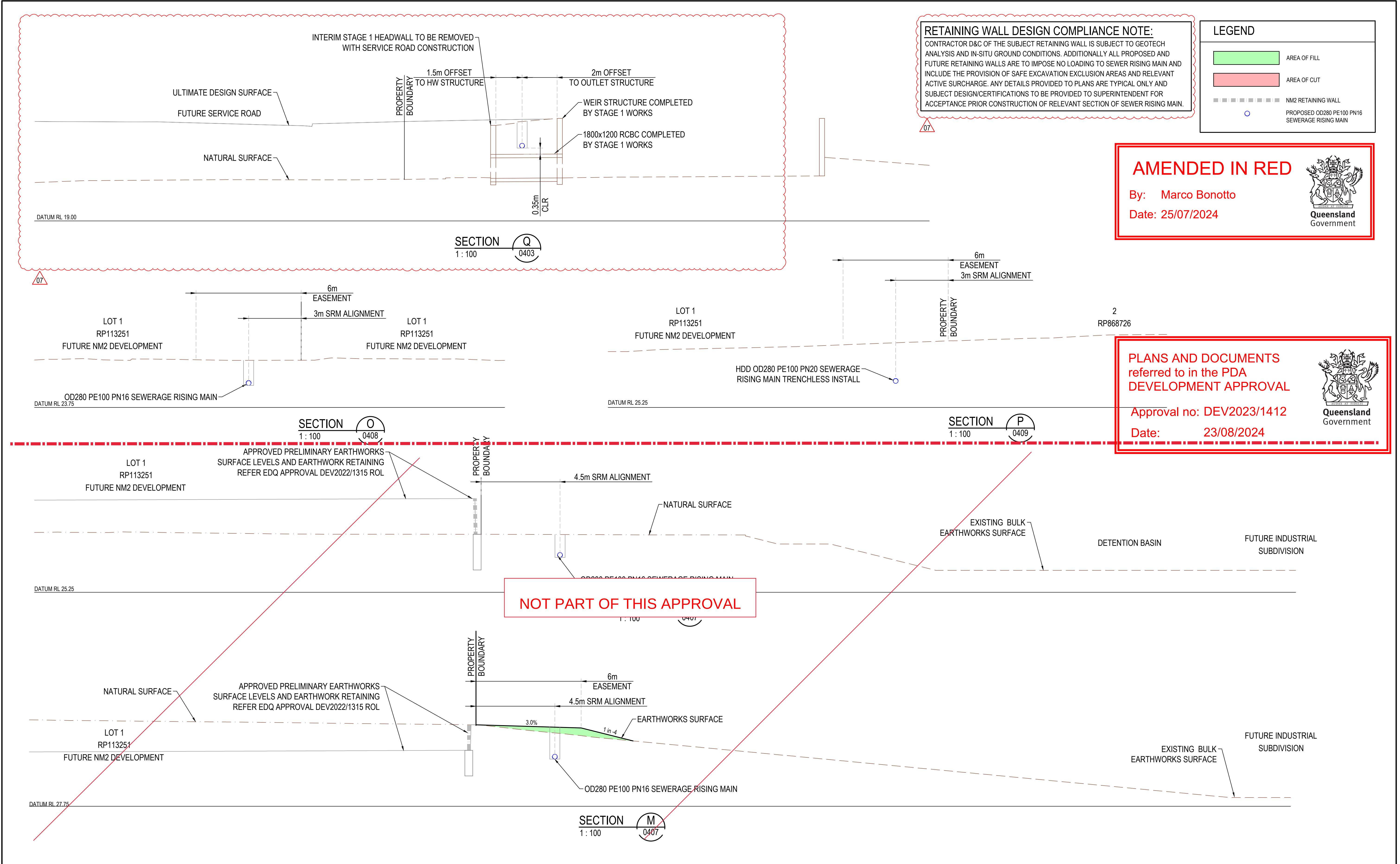
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30109334 - AAP - WS000P - CV - DRG - 0410 - 07

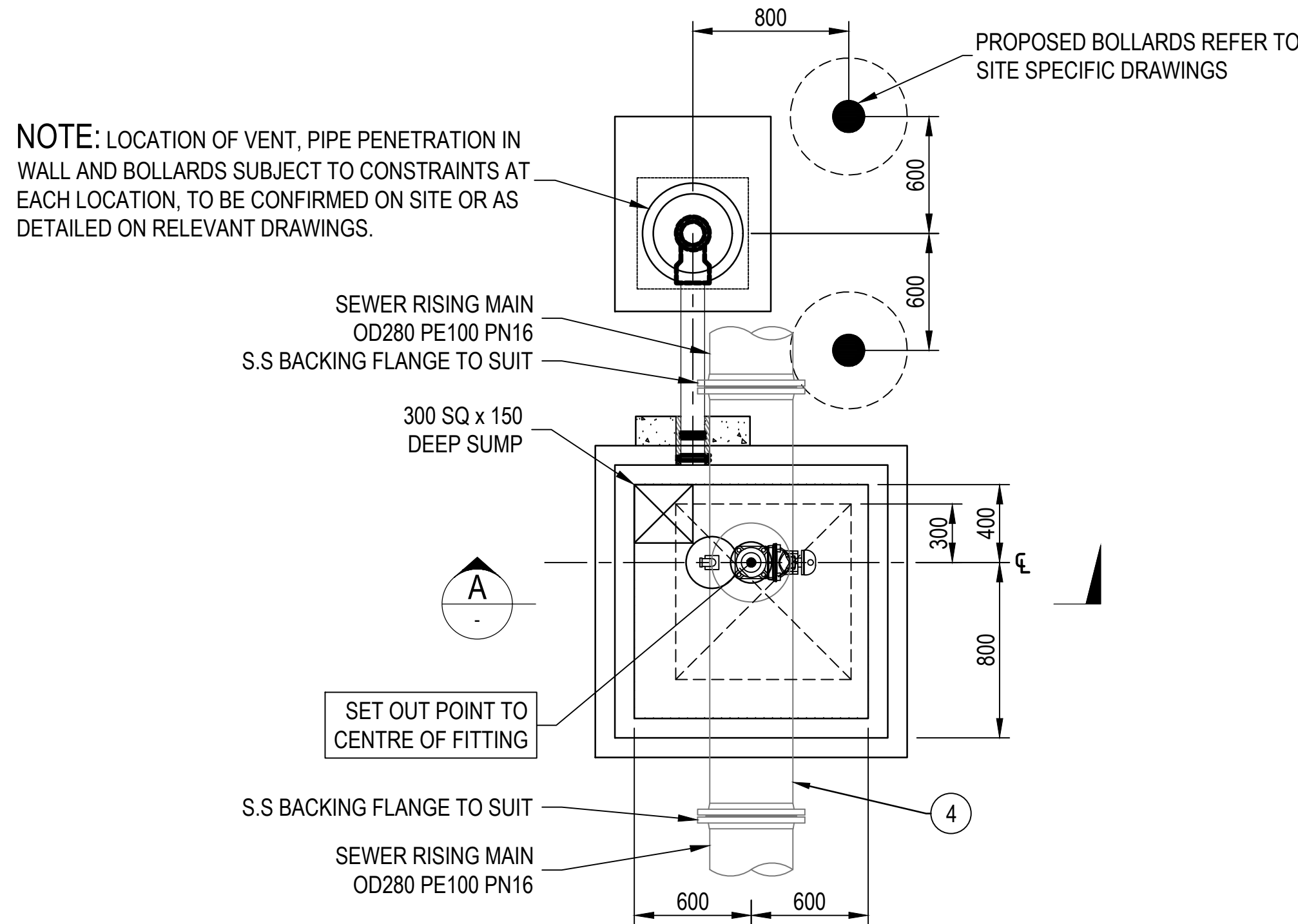
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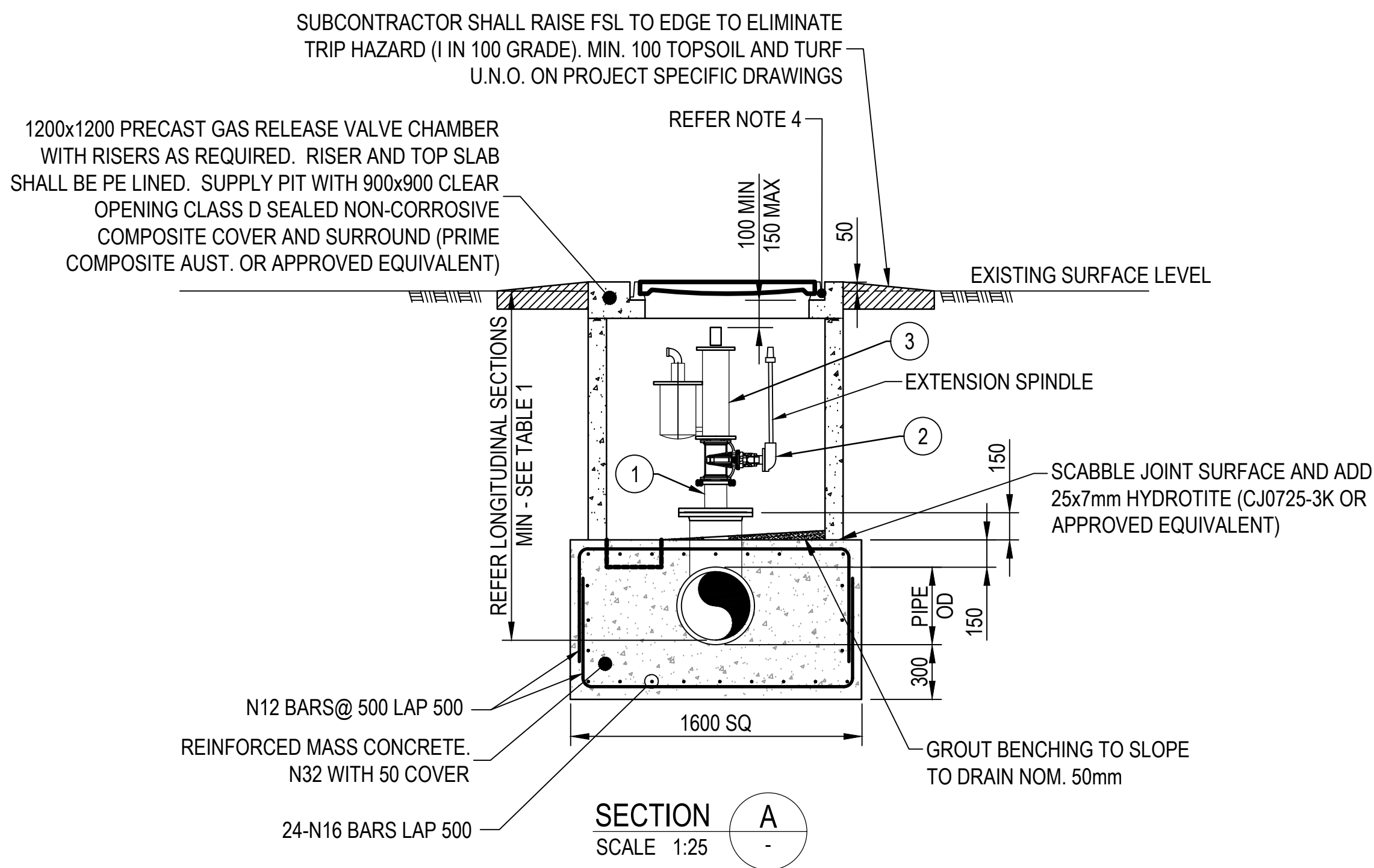
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						Scales		Surveyor		Client		Status				Project		ARCADIS	
												FOR APPROVAL				4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN		Arcadis Australia Pacific Pty Limited Level 35, 111 Eagle Street BRISBANE QLD 4000 ABN 76 104 485 289 Tel No: +61 7 3337 0000 www.arcadis.com/au	
						 1 : 100		Architect				© Copyright reserved				Title		SEWERAGE RISING MAIN SECTIONS SHEET 4	
												Original Issue Signatures						30109334 - AAP - WS000P - CV - DRG - 0413 - 07	
												Drawn		A. OSORIO		Original Size		A1	
												Designed		G. PUMNUT		Height Datum		AHD	
												Project Manager		B. KITSON		Grid		GDA 2020 ZONE 56	
												Verified		GELLIS		R.P.E.Q. No: 17942 Date 31.05.2024			



TYPICAL AUTOMATIC GAS RELEASE VALVE ARRANGEMENT - TYPE C
SCALE 1:25



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2023/1412

Date: 23/08/2024



PIPE AND FITTINGS SCHEDULE

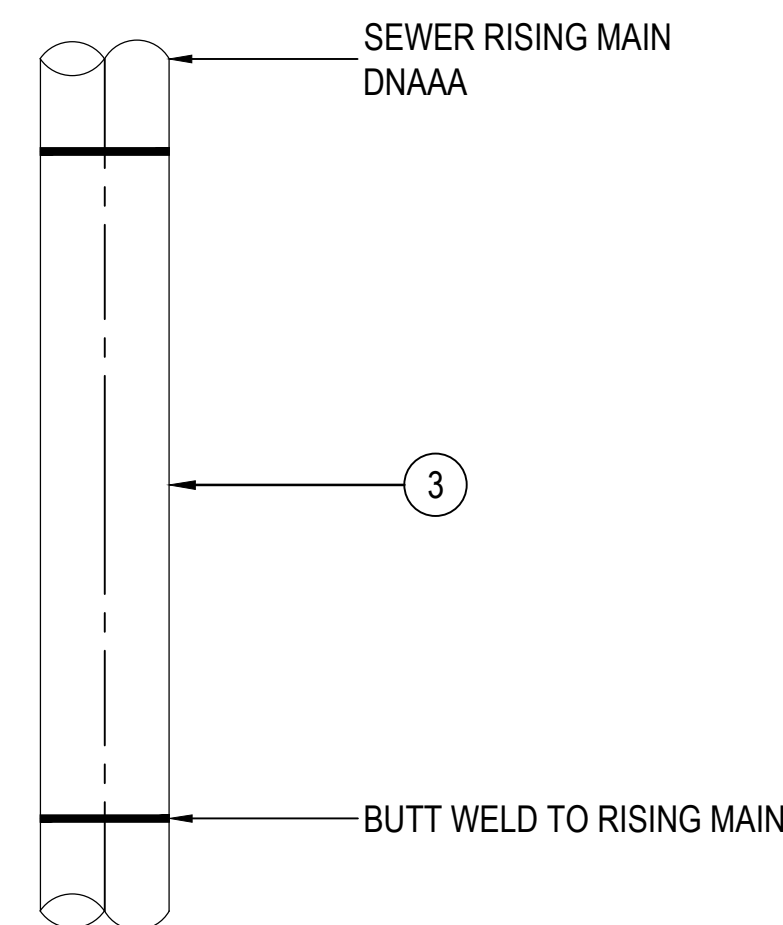
ITEM	DESCRIPTION	SIZE	MATERIAL	QTY
1	PIPE SPECIAL (175 LONG), FL-FL, C/W DNCCC FLANGE TO SUIT AIR VALVE (ITEM 3) AND DNBBB FLANGE TO SUIT TEE (ITEM 4)	DN250	316SS	1
2	SLUICE VALVE PN16, FL-FL, RESILIENT SEATED (229 LONG) C/W GEAR BOX AND NON RISING SPINDLE EXTENSION 316SS SCH10S	DN100	DI FBE	1
3	GAS RELEASE VALVE AS SPECIFIED ON PROJECT SPECIFIC DRAWINGS	DNCCC	SS	1
4	PIPE SPECIAL FL-FLxFL (REFER DETAIL 1)	TABLE 1	MS FBPE COATED AND LINED	1
5	TEE PL-PL-FL DIM "A" = XXX (REFER DETAIL 2) DNAAA-DNBBB HDPE 1			

TABLE 1 - SIZE DESCRIPTION SCHEDULE

SEWER RISING MAIN DN OR OD (DNAAA)	DESCRIPTION *	SIZE DNAAAxDNBBB	MIN DEPTH TO INVERT
DN375 DI	OD 406x6 THK TEE WITH OD219 BRANCH FL-FLxFL DIM "A" =503	DN375xDN200	1867
OD450 PE100	OD 406x6 THK TEE WITH OD219 BRANCH FL-FLxFL DIM "A" = 503	DN450xDN200	1867
OD560 PE100	OD 508x10 THK TEE WITH OD273 BRANCH FL-FLxFL DIM "A" = 554	DN550xDN250	1965

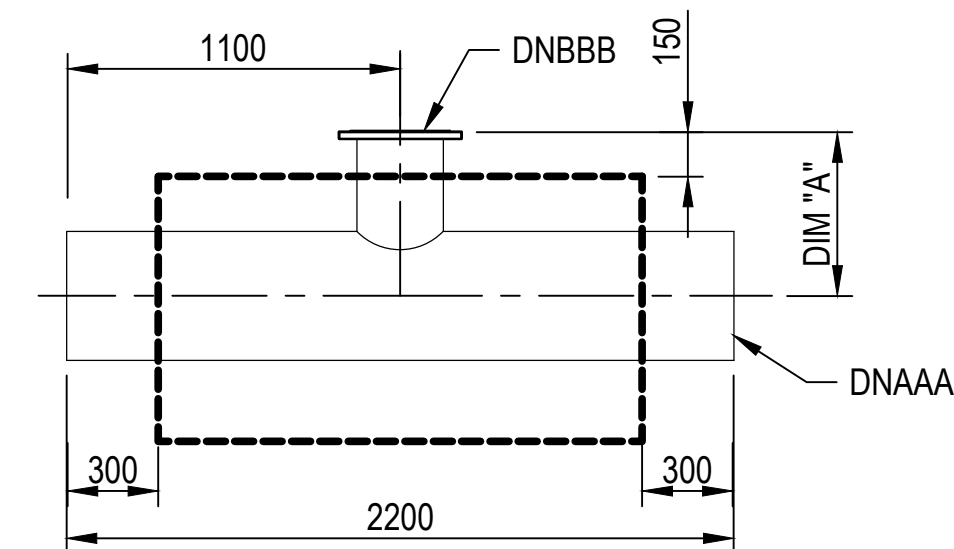
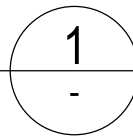
NOTES

- FOR GENERAL NOTES REFER TO STD DWGS PM001-00-P-DWG-ND-0020 TO ND-0023.
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
- LOCATIONS, SIZE AND TYPES OF GAS RELEASE VALVE INSTALLATIONS ARE SHOWN ON RISING MAIN PLAN AND LONGITUDINAL DRAWINGS.
- FINISHED TOP SURFACE OF THE VALVE CHAMBER TO BE KEPT 50 ABOVE THE FSL IN NORMAL GROUND AND FLUSH WITH EXISTING SURFACES IN FOOTPATHS/PAVEMENTS.
- VENT PIPE PENETRATION TO ONLY BE CORED FOLLOWING SUCCESSFUL VACUUM TESTING.
- RISING MAIN VALVE MARKING SHALL BE IN ACCORDANCE WITH SEQ STD DWG SEQ-SPS-1508-2.



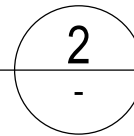
ALTERNATE PE TEE CONNECTION

DETAIL
SCALE 1:25



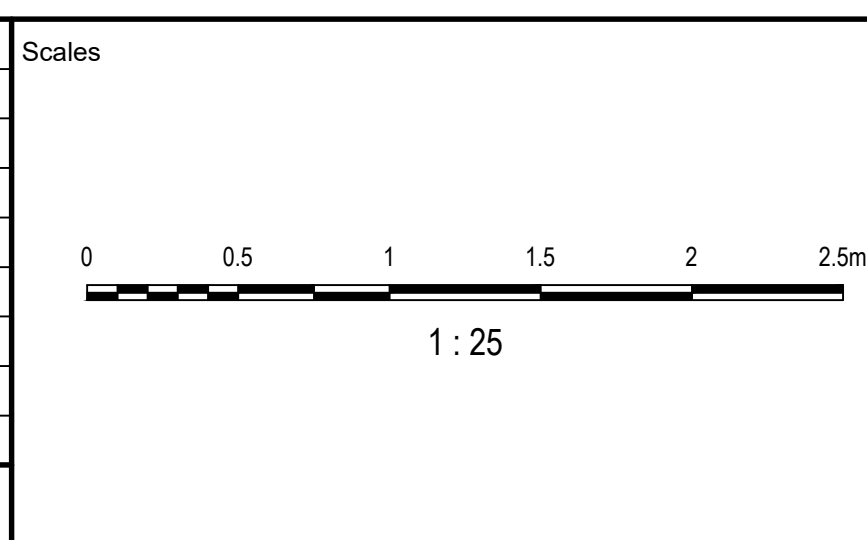
ITEM 5 - PIPE TEE SPECIAL

DETAIL
SCALE 1:25



05

Issue	Description	DR	CH	VE	Date
05	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	R.M.	31.05.24
04	FOR APPROVAL	A.O.	G.P.	R.M.	27.03.24
03	FOR APPROVAL - RESPONSE TO RFI	A.O.	A.J.	R.M.	23.02.24
02	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	R.M.	31.08.23
01	FOR APPROVAL	A.O.	S.S.	R.M.	25.05.23



Surveyor

WOLTER
consulting group

Architect

Client

Charter Hall

Status

FOR APPROVAL

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Original Issue Signatures

Drawn: A. OSORIO, Original Size: A1

Designed: G. PUMNUT, Height Datum: AHD

Project Manager: B. KITSON, Grid: GDA 2020 ZONE 56

Verified: G. ELLIS, R.P.E.Q. No: 17942, Date: 31.05.2024

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title

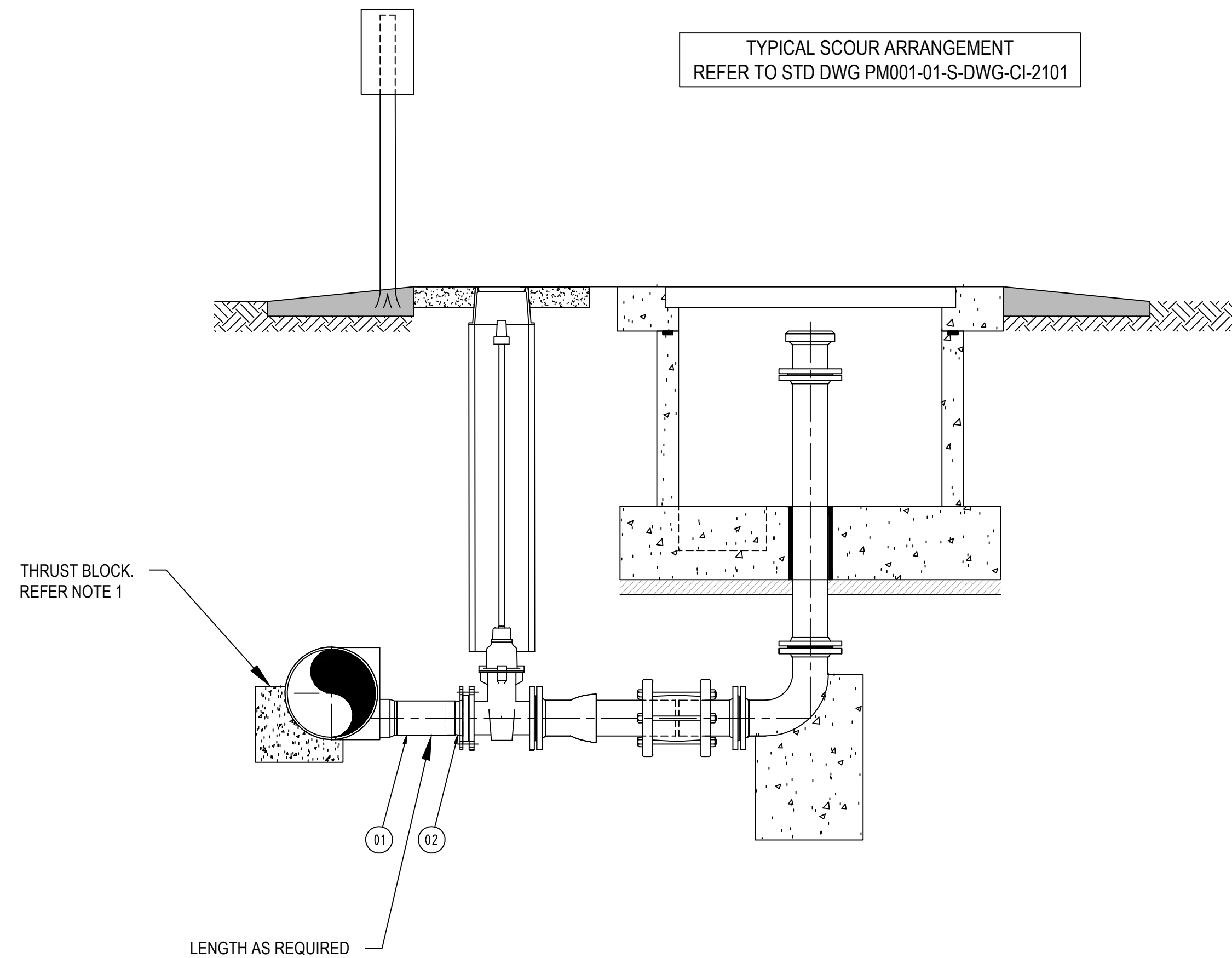
SEWERAGE RISING MAIN DETAILS SHEET 1

ARCADIS

Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289
Tel No: +61 7 3337 0000
www.arcadis.com/au

Project No: 30109334 - AAP - WS000P - CV - DRG - 0418 - 05

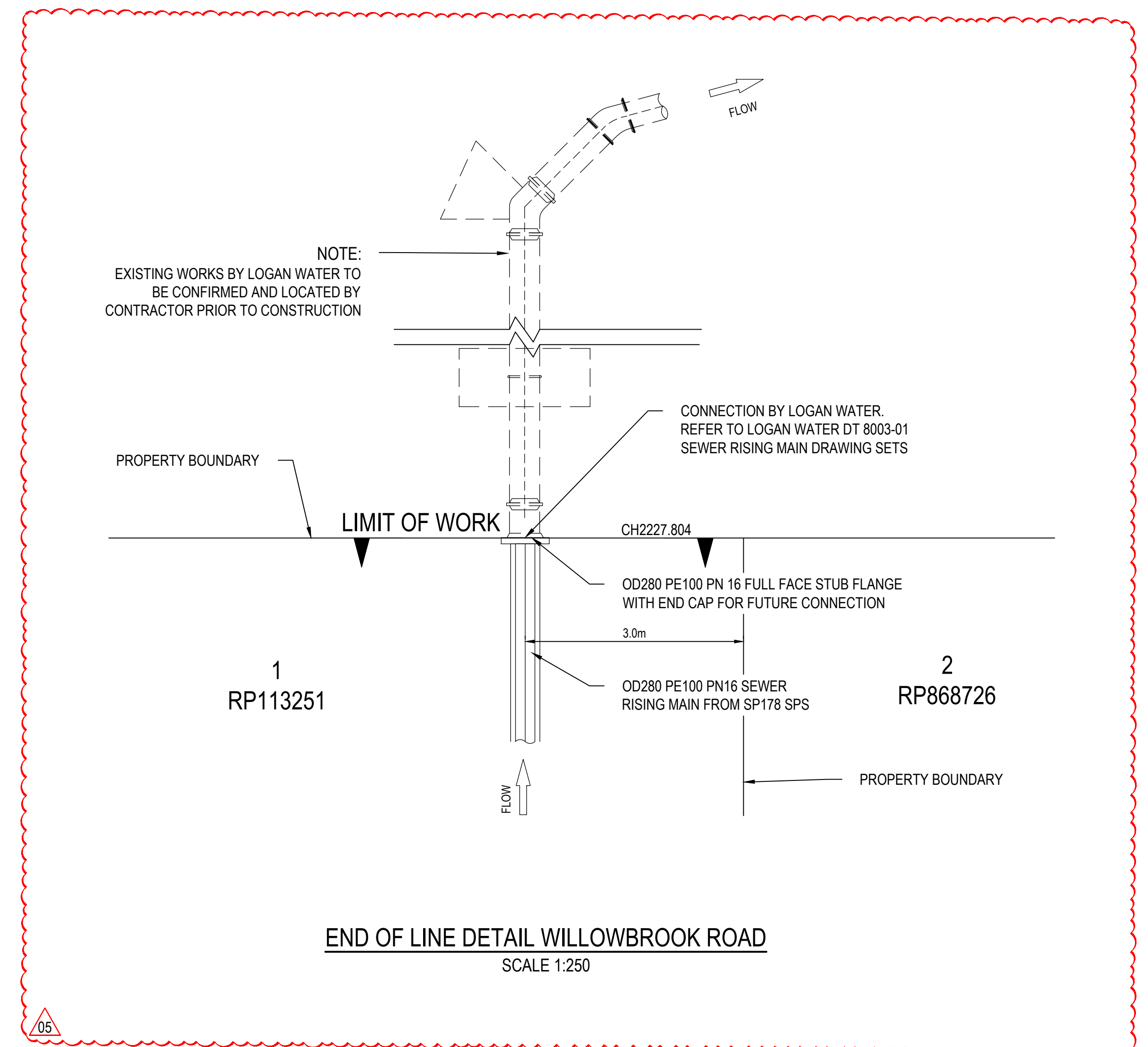
Approval no: DEV2023/1412
Date: 23/08/2024



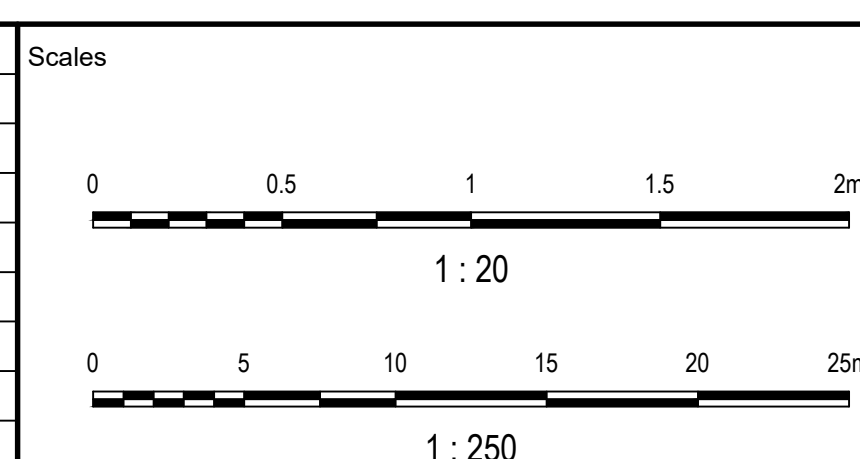
TYPICAL SCOUR ARRANGEMENT DETAIL
SCALE 1:20

SCOUR VALVE - PIPE AND FITTINGS SCHEDULE				
ITEM	DESCRIPTION	SIZE	MATERIAL	QTY
01	SCOUR TEE, BW FULLY RATED	OD280 X OD110	PE100 PN10	1
02	FULL FACE STUB FLANGE BW c/w DN100 SS BACKING RING	OD110	PE100 PN10	1

NOTE:
1. FOR THRUST BLOCKS (AND/OR ANCHOR BLOCKS) NOTES REFER TO STD DWG PM001-00P-DWG-ND-0022

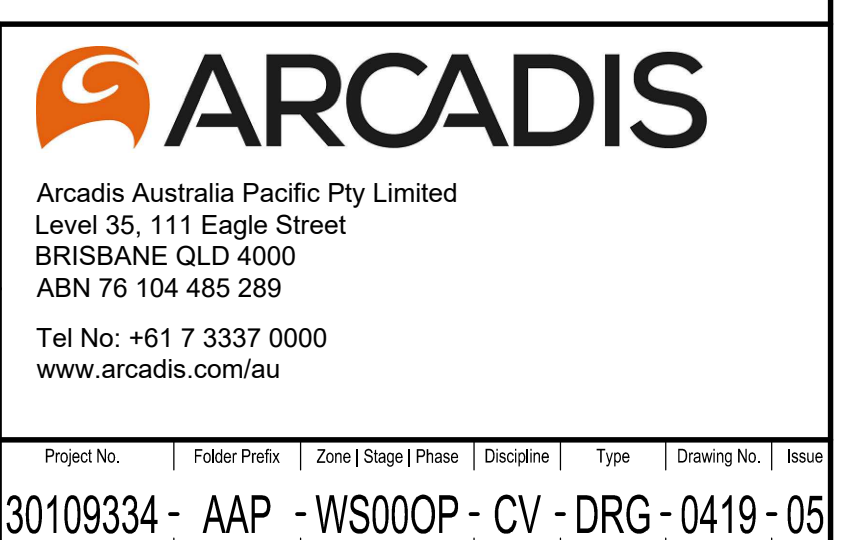


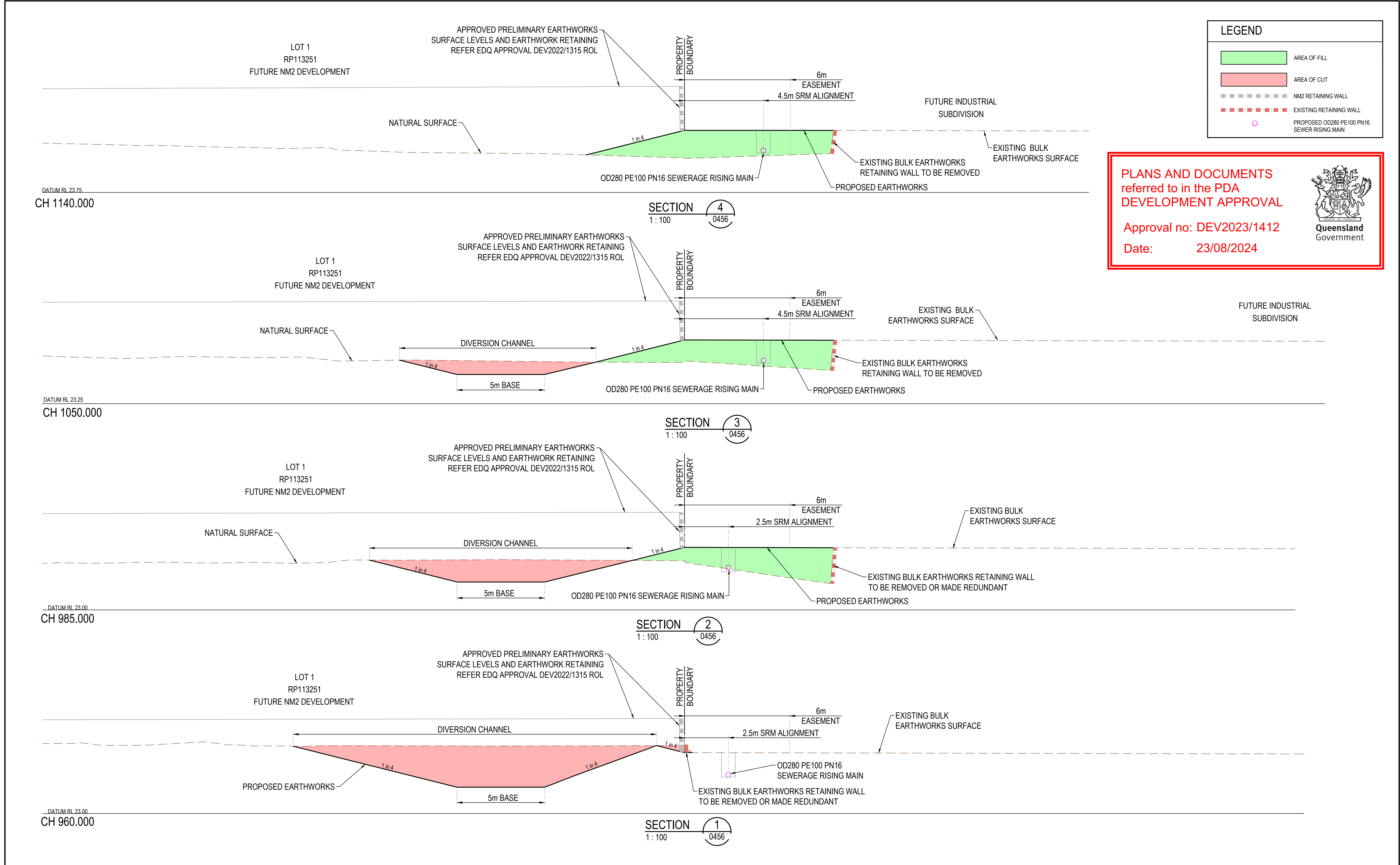
05	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	R.M.	31.05.24
04	FOR APPROVAL	A.O.	G.P.	G.E.	19.04.24
03	FOR APPROVAL	A.O.	G.P.	R.M.	27.03.24
02	FOR APPROVAL - RESPONSE TO RFI	A.O.	G.P.	R.M.	31.08.23
01	FOR APPROVAL	A.O.	S.S.	R.M.	25.05.23
Issue	Description	DR	CH	VE	Date



Status			
FOR APPROVAL			
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Original Issue Signatures			
Drawn	A. OSORIO	Original Size	A1
Designed	S. SEM	Height Datum	AHD
Project Manager	T. FANNING	Grid	GDA 2020 ZONE
Verified	GELLIS 	R.P.E.Q. No: 17942 Date: 31.05.2024	

Project	4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN
Title	SEWERAGE RISING MAIN DETAIL S SHEET 2





LEGEND

- AREA OF FILL
- AREA OF CUT
- NM2 RETAINING WALL
- EXISTING RETAINING WALL
- PROPOSED OD280 PE100 PN16 SEWER RISING MAIN

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2023/1412
Date: 23/08/2024

					Scales 0 1 2 4 6 8 10m 1 : 100					Surveyor WOLTER consulting group Planning Urban Design Landscape Environment Surveying Architect -					Client Charter Hall					Status FOR APPROVAL © Copyright reserved Original Issue Signatures Drawn A. OSORIO Original Size A1 Designed G. PUMNUT Height Datum AHD Project Manager B. KITSON Grid GDA 2020 ZONE 56 Verified G.ELLIS R.P.E.Q. No: 17942 Date 31.05.2024					Project 4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN Title SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760 - 1200 SECTIONS SHEET 1					ARCADIS Arcadis Australia Pacific Pty Limited Level 35, 111 Eagle Street BRISBANE QLD 4000 ABN 76 104 485 289 Tel No: +61 7 3337 0000 www.arcadis.com/au Project No. Folder Prefix Zone Stage Phase Discipline Type Drawing No. Issue 30109334 - AAP - WS000P - CV - DRG - 0470 - 01				
01 FOR APPROVAL					A.O. G.P. G.E. 31.05.24																													
Issue Description					DR CH VE Date																													

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2023/1412

Date: 23/08/2024



LEGEND

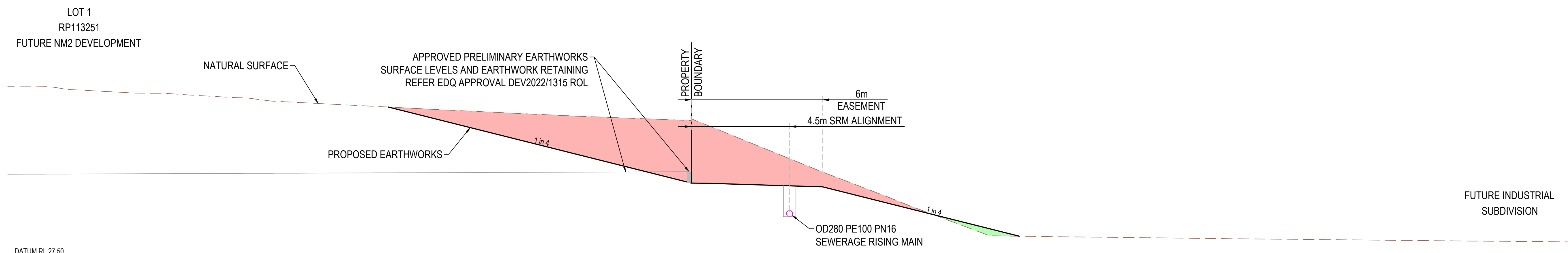
AREA OF FILL

AREA OF CUT

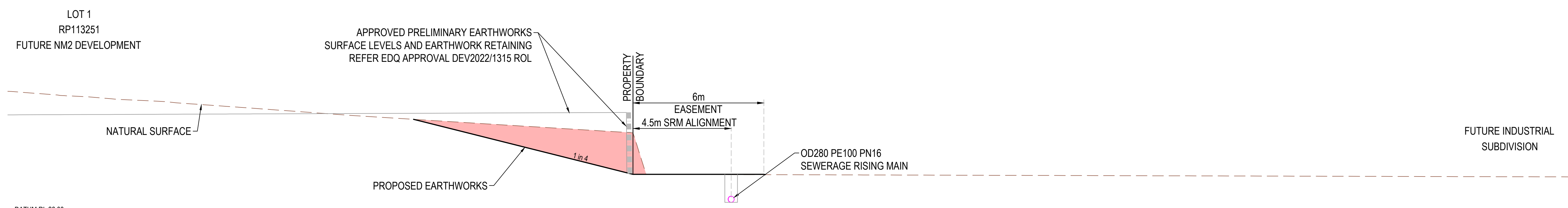
NM2 RETAINING WALL

EXISTING RETAINING WALL

PROPOSED OD280 PE100 PN16
SEWER RISING MAIN



SECTION 6
1 : 100



SECTION 5
1 : 100

01	FOR APPROVAL	A.O.	G.P.	G.E.	29.05.24
Issue	Description	DR	CH	VE	Date

Scales

Surveyor

Architect

-

Client

Status

FOR APPROVAL

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Original Issue Signatures	
Drawn	A. OSORIO
Designed	G. PUMNUT
Project Manager	B. KITSON
Verified	G. ELLIS

Original Size	A1
Height Datum	AHD
Grid	GDA 2020 ZONE 56
R.P.E.Q. No:	17942
Date	31.05.2024

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title

SEWERAGE RISING MAIN ALTERNATE ALIGNMENT CHAINAGE 760 - 1200 SECTIONS SHEET 2

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Project No.	Folder Prefix	Zone Stage Phase	Discipline	Type	Drawing No.	Issue
30109334	AAP	- WS000P	CV	DRG	- 0471	- 01