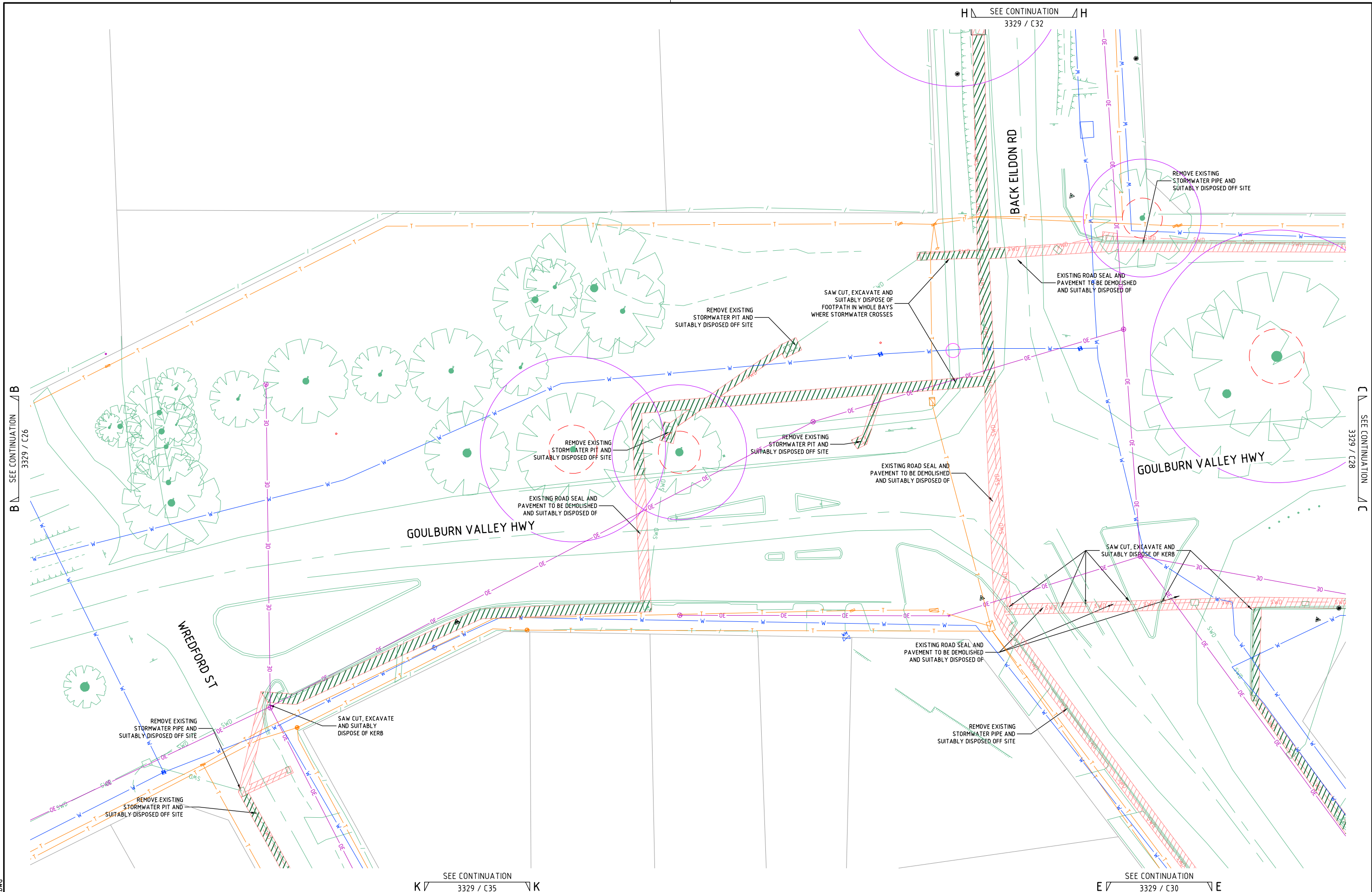




ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

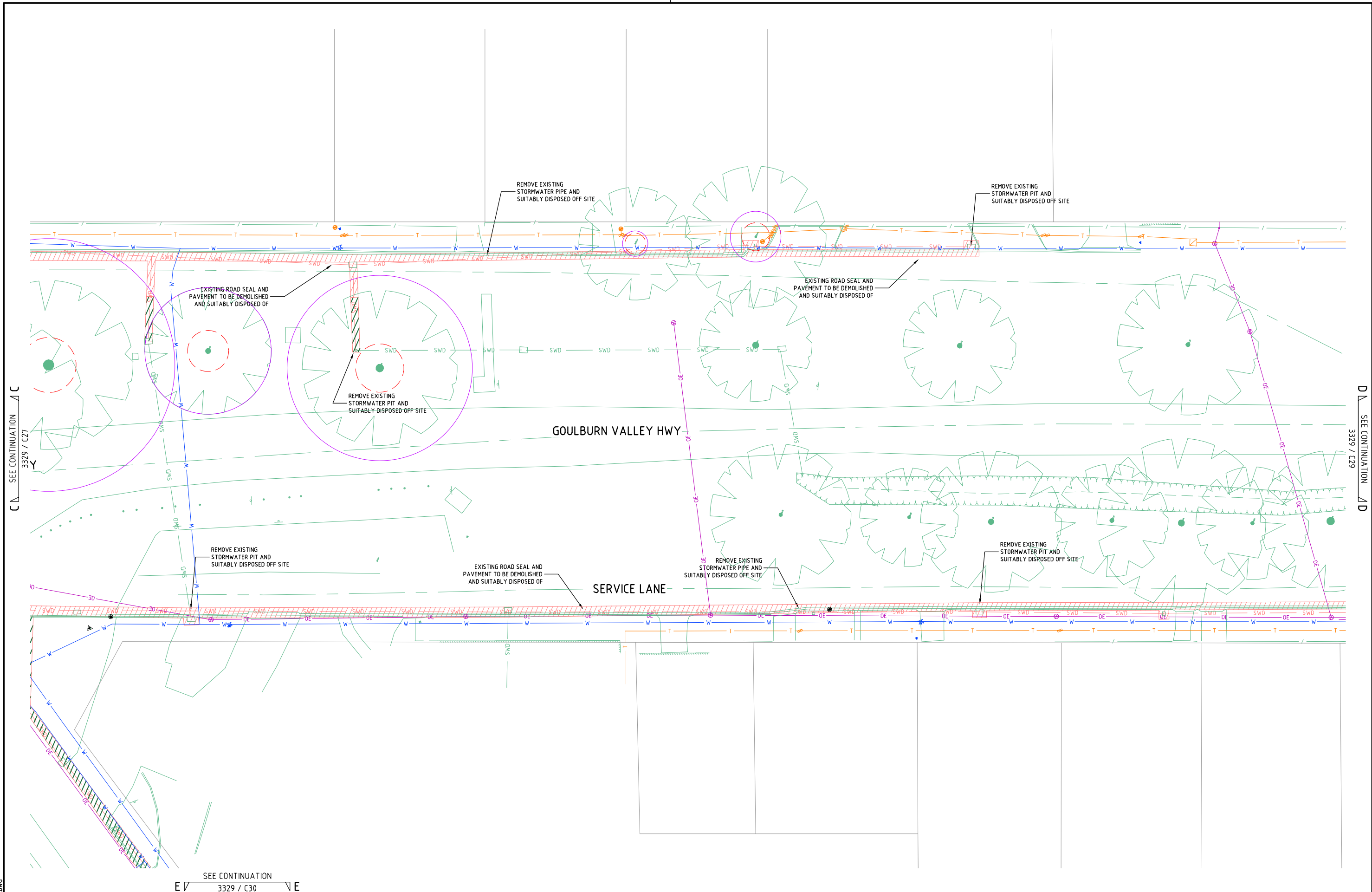


abr: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	DEMOLITION PLAN (SHEET 3 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cal File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C27	Shit:	27 of 57
Issue:	-	Size:	A1

1/10/2021 12:28:45 PM 3329 C01.DWG



ISSUE	DESCRIPTION	DATE
A	EXISTING CONDITIONS	27/07/2020
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
C	DETAILED DRAINAGE DESIGN	02/02/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



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Client: MURRINDINDI SHIRE COUNCIL		Surveyed: M.V & K.M 22/06/2020	Drawn: S.GALEA 27/07/2020
Project Name: THORNTON STORMWATER DRAINAGE PROJECT		Designed: S.GALEA 27/07/2020	Approved: N.Y.-HUSABND 01/10/2021
Location: THORNTON TOWNSHIP		Cad File: 3329 C01.DWG	
Property: MURRINDINDI SHIRE COUNCIL		Scale: SCALE AS SHOWN	Size: A1
Title: DEMOLITION PLAN (SHEET 4 OF 11)		Drawing No: 3329 / C28	Sh: 28 of 57
			Issue: F

1/10/2021 12:25:25 PM 3329 C01.DWG

ISSUE	DESCRIPTION	DATE
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-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

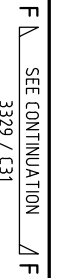
TENDER



abn: 37 160 560 556
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t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
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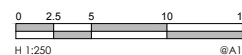
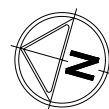
Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	DEMOLITION PLAN (SHEET 5 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C29	Sheet:	29 of 57
Issue:	-	Size:	A1



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-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

TENDER



a: 38 Wyndham Street, Shepparton
 p: P.O. Box 1948, Shepparton, VIC
 3632
 t: 03 5831 3347
 f: 03 5831 3343
 e: info@cafconsulting.com.au
 w: cafconsulting.com.au

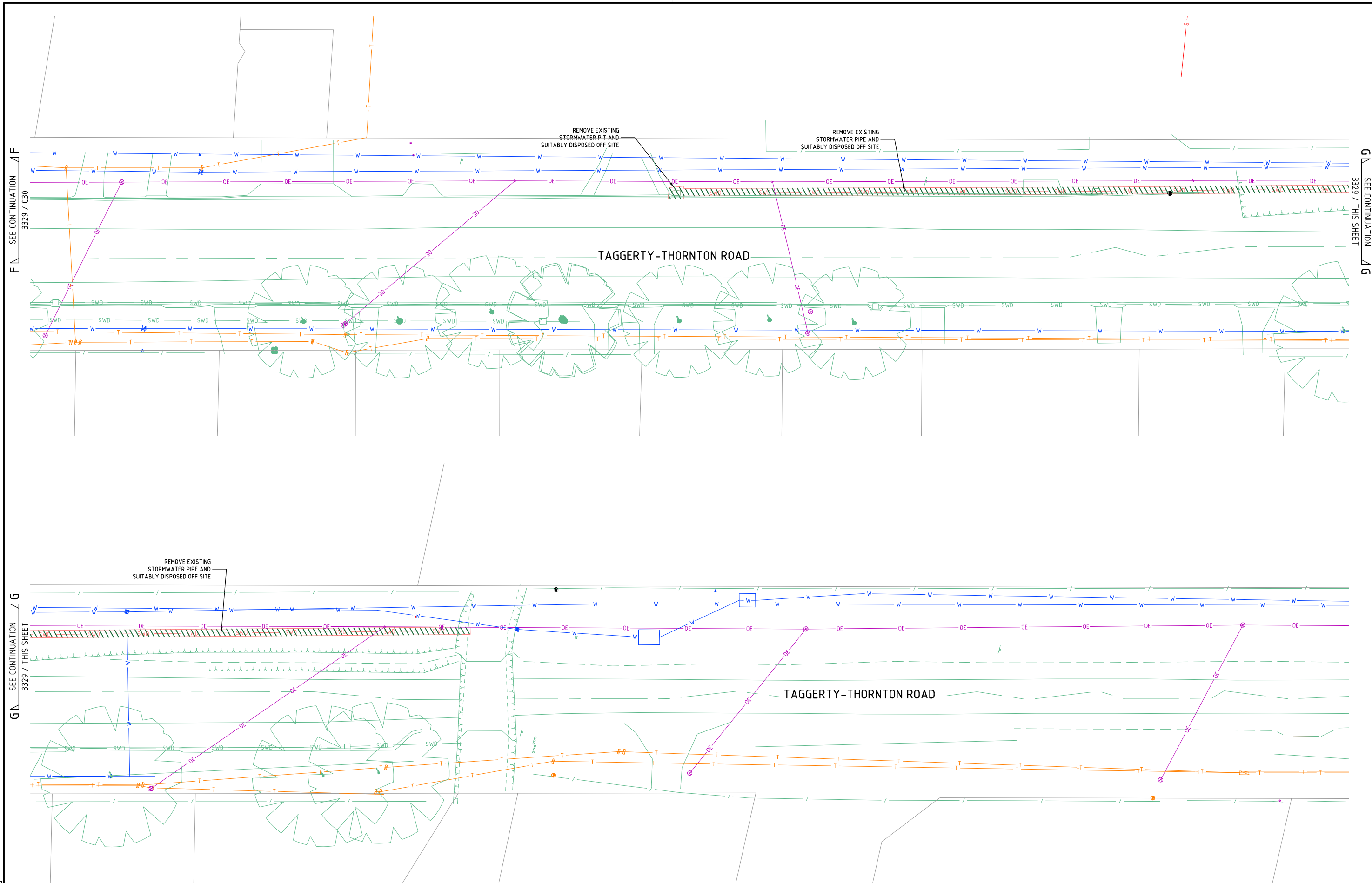
Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712
Property:	MURRINDINDI SHIRE COUNCIL -
Title:	DEMOLITION PLAN (SHEET 6 OF 11) -

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01DWG		Size:
Scale:	SCALE AS SHOWN		A1
Drawing No:		Sh:	Issue:
3329 / C30		30 of 57	F

SEE CONTINUATION / F

SEE CONTINUATION / G

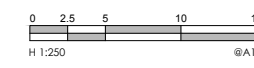
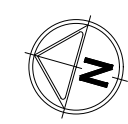
SEE CONTINUATION / G
3329 / THIS SHEET



3329 C01.DWG		
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-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



Client:	MURRINDINDI SHIRE COUNCIL	Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT	Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP	Cad File:	3329 C01.DWG	Size:	A1
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL	Scale:	SCALE AS SHOWN	Shit:	Issue:
Title:	DEMOLITION PLAN (SHEET 7 OF 11)	Drawing No:	3329 / C31	Shit:	31 of 57
					F

SEE CONTINUATION
3329 / C27

SEE CONTINUATION
3329 / C33

BACK EILDON RD

REMOVE EXISTING
STORMWATER PIPE AND
SUITABLY DISPOSED OFF SITE

REMOVE EXISTING
STORMWATER PIT AND
SUITABLY DISPOSED OFF SITE

ISSUE	DESCRIPTION	DATE
A	EXISTING CONDITIONS	27/07/2020
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
C	DETAILED DRAINAGE DESIGN	02/02/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
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t: 03 5831 3347
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w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	DEMOLITION PLAN (SHEET 8 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C32	Sheet:	32 of 57
Issue:	-	File:	F

1/10/2021 1:28:40 PM 3329 C01.DWG

1/10/2021 1:28:45 PM 3329 C01.DWG

SEE CONTINUATION
3329 / C32

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

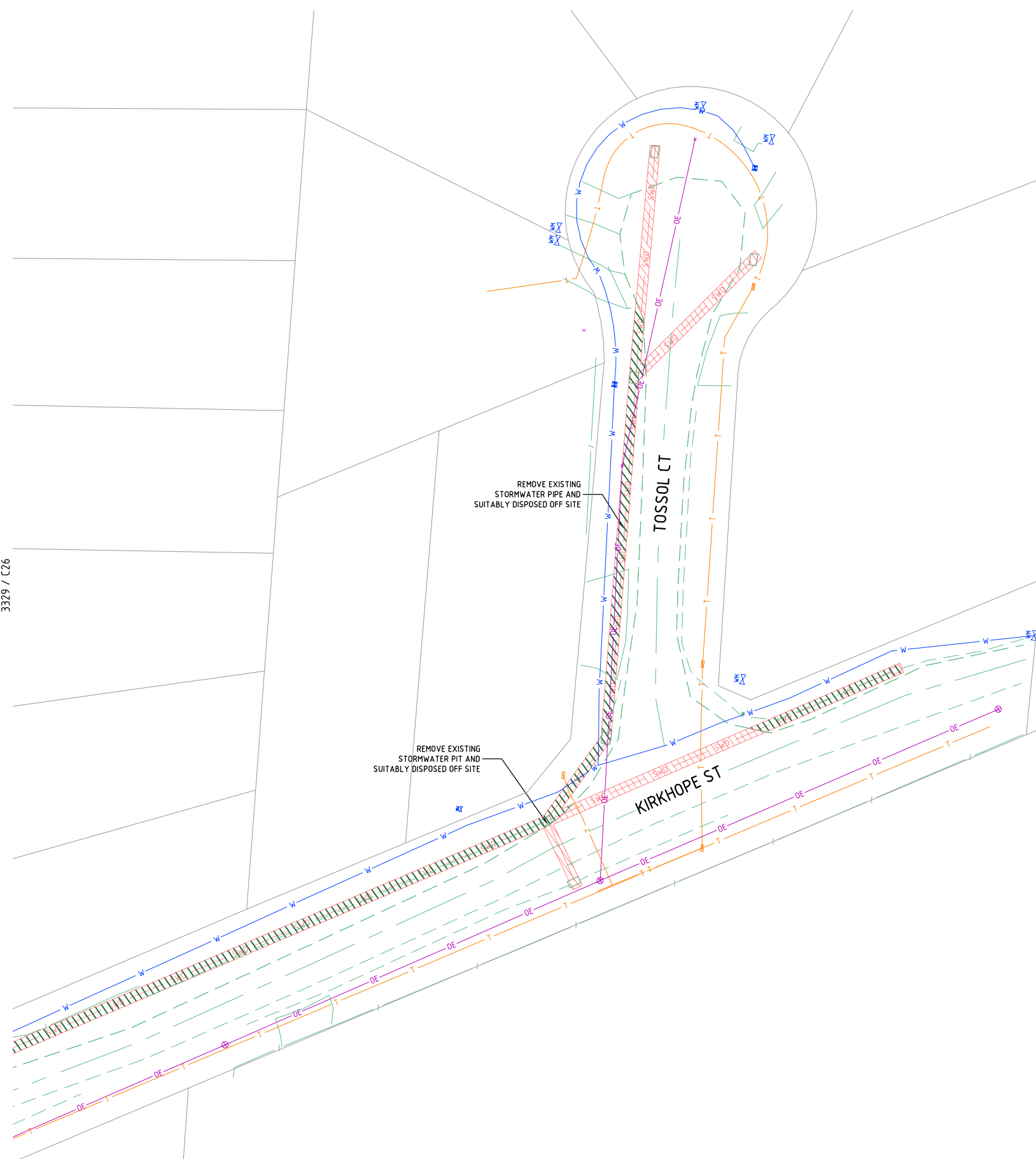
TENDER



abn: 37 160 560 556
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p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	DEMOLITION PLAN (SHEET 9 OF 11)

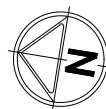
Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C33	Sheet:	33 of 57
Issue:	-	Size:	A1



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-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	26/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	21/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



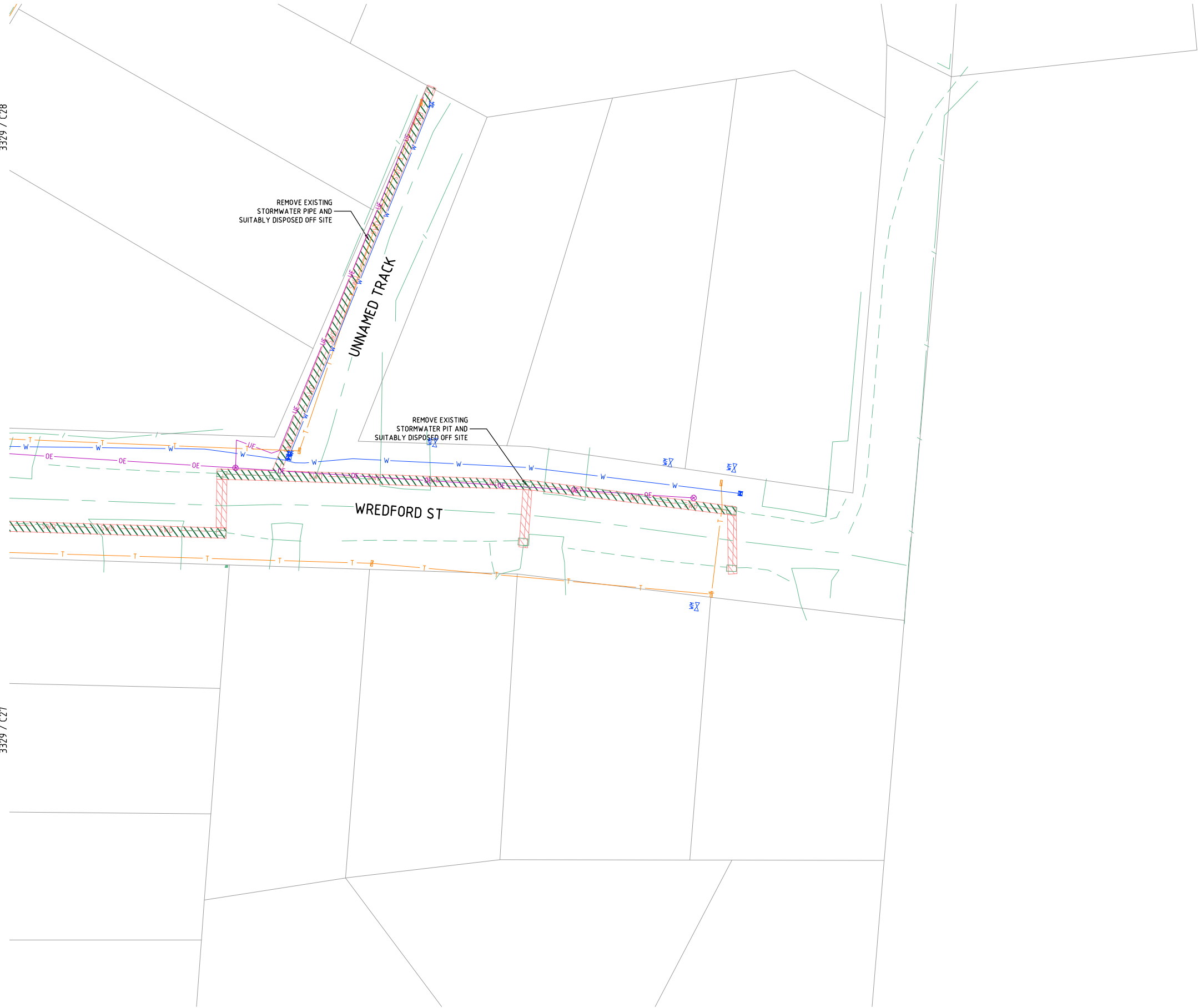
abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC
3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client: MURRINDINDI SHIRE COUNCIL		Surveyed: H.V & K.M 22/06/2020	Drawn: S.GALEA 27/07/2020
Project Name: THORNTON STORMWATER DRAINAGE PROJECT		Designed: S.GALEA 27/07/2020	Approved: N.Y.-HUSABND 01/10/2021
Location: THORNTON, VICTORIA 3712		Cad File: 3329 C01DWG	Size: A1
Property: MURRINDINDI SHIRE COUNCIL -			
Title: DEMOLITION PLAN (SHEET 10 OF 11) -		Scale: SCALE AS SHOWN	Issue: A1
		Drawing No: 3329 / C34	Sh: 34 of 57

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K SEE CONTINUATION / K
3329 / C27

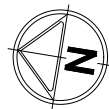
K SEE CONTINUATION / K
3329 / C28



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
 SURVEY DATUM THORNTON PM's 37, 48 & 53
 PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
 LEVELS ARE IN A.H.D
 CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
 a: 38 Wyndham Street, Shepparton
 p: P.O. Box 1948, Shepparton, VIC 3632
 t: 03 5831 3347
 f: 03 5831 3343
 e: info@cafconsulting.com.au
 w: cafconsulting.com.au

Client: MURRINDINDI SHIRE COUNCIL	
Project Name: THORNTON STORMWATER DRAINAGE PROJECT	
Location: THORNTON TOWNSHIP	
Property: THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL	
Title: DEMOLITION PLAN (SHEET 11 OF 11)	

Surveyed: M.V & K.M 22/06/2020	Drawn: S.GALEA 27/07/2020
Designed: S.GALEA 27/07/2020	Approved: N.Y.-HUSABND 01/10/2021
Conf File: 3329 C01.DWG	Size: A1
Scale: SCALE AS SHOWN	
Drawing No: 3329 / C35	Sheet: 35 of 57
	Issue: F



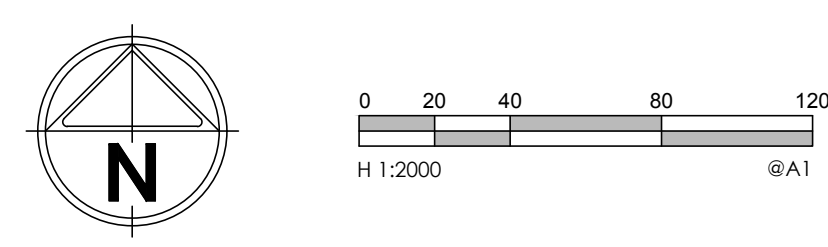
CATCHMENT SUMMARY			
COLOUR	SUB-CATCHMENT TYPE	RUNOFF COEFFICIENT	AREA (Ha)
	RESIDENTIAL (> 1,000 - 2,000 Sq.m)	0.50	2.29
	RESIDENTIAL (> 600 - 1,000 Sq.m)	0.70	2.89
	RESIDENTIAL (> 450 - 600 Sq.m)	0.75	0.11
	RESIDENTIAL (> 300 - 450 Sq.m)	0.80	0.04
	LOW DENSITY (> 2,000 - 4,000 Sq.m)	0.45	1.37
	LOW DENSITY (> 4,000 Sq.m - 1 Ha)	0.40	3.21
	LANDSCAPING	0.25	1.74
	COMMERCIAL	0.90	2.67
	PAVED ROAD	0.90	1.82
	RESIDENTIAL ROAD RESERVE	0.75	1.67
	PUBLIC OPEN SPACE	0.35	0.91
TOTAL			18.73

1/10/2021 7:30:07 PM 3329 C01DWG

ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
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p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

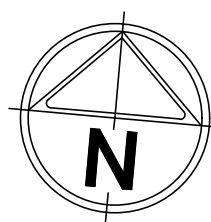
Client: MURRINDINDI SHIRE COUNCIL		Surveyed: M.V & K.M 22/06/2020	Drawn: S.GALEA 27/07/2020
Project Name: THORNTON STORMWATER DRAINAGE PROJECT		Designed: S.GALEA 27/07/2020	Approved: N.Y-HUSABND 01/10/2021
Location: THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL		Cad File: 3329 C01DWG	
Property: -		Scale: SCALE AS SHOWN	
Title: CATCHMENT AREAS		Drawing No: 3329 / C36	Shr: 36 of 57
			Issue: F

1/10/2021 7:30:10 PM 3329 C01DWG

-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
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p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	LAYOUT PLAN (SHEET 1 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01DWG	Size:	A1
Scale:	SCALE AS SHOWN		
Drawing No:	3329 / C37	Shr:	37 of 57
Issue:			F



A SEE CONTINUATION A
3329 / C38



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

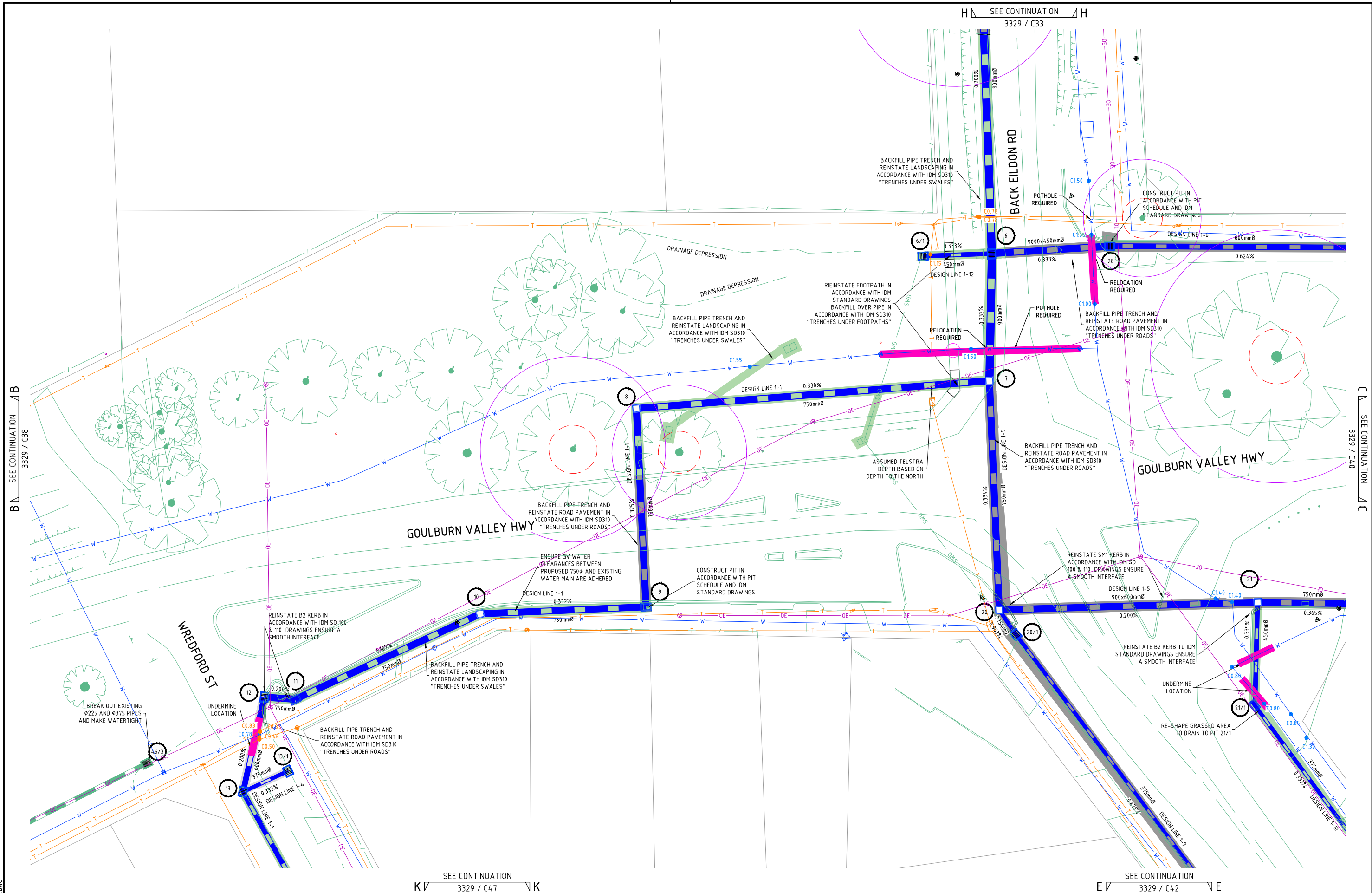


abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	LAYOUT PLAN (SHEET 2 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Cad File:	3329 C01DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C38	Sheet:	38 of 57
Issue:			F

1/10/2021 1:30:45 PM 3329 C01DWG



ISSUE	DESCRIPTION	DATE
-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

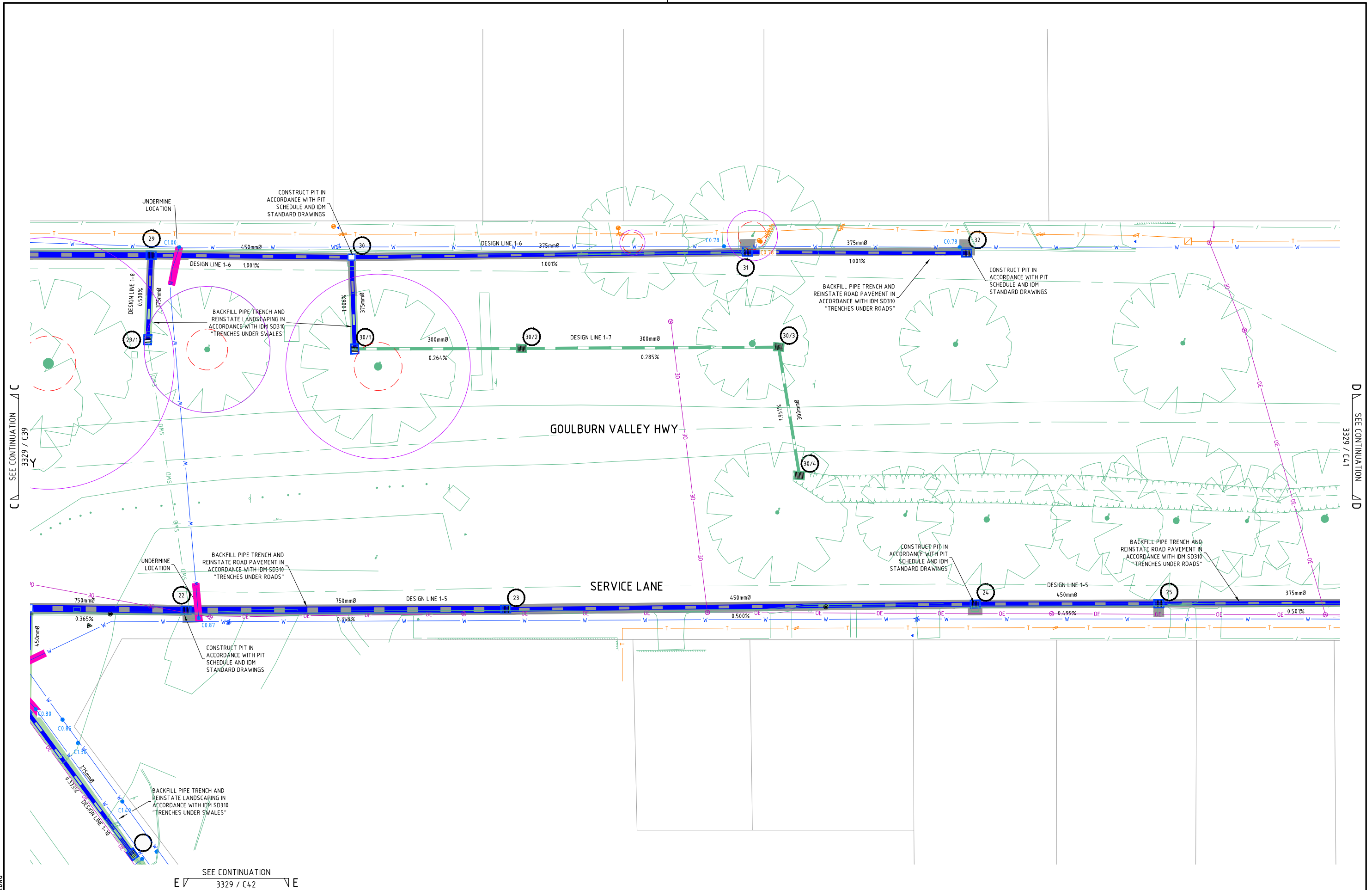


abr: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	LAYOUT PLAN (SHEET 3 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
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Drawing No:	3329 / C39	Sheet:	39 of 57
Issue:	F		

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ISSUE	DESCRIPTION	DATE
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-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/09/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



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w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	LAYOUT PLAN (SHEET 4 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
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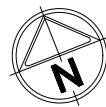
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ISSUE	DESCRIPTION	DATE
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-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
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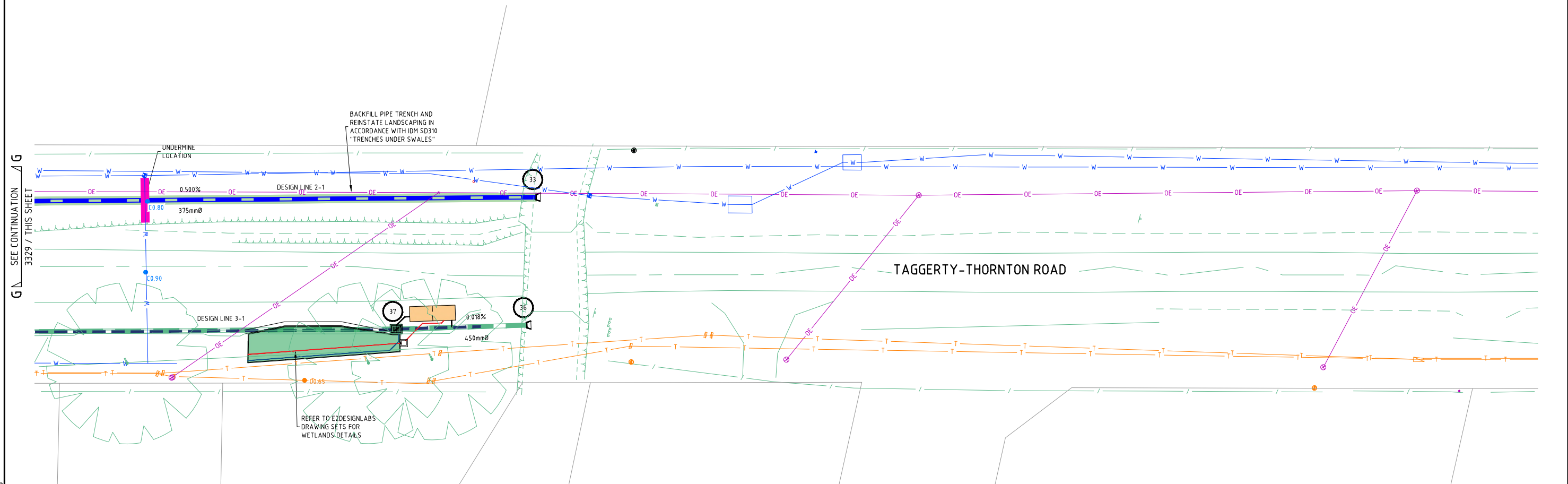
Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	LAYOUT PLAN (SHEET 5 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C41	Sheet:	41 of 57
Issue:		Size:	A1

SEE CONTINUATION
3329 / C42

SEE CONTINUATION
3329 / THIS SHEET

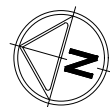
SEE CONTINUATION
3329 / THIS SHEET



ISSUE	DESCRIPTION	DATE
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-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
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f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	LAYOUT PLAN (SHEET 7 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Calc File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:		Sheet:	43 of 57
Issue:		Size:	A1

SEE CONTINUATION
3329 / C39

SEE CONTINUATION
3329 / C45

ISSUE	DESCRIPTION	DATE
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-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
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t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Property:	-
Title:	LAYOUT PLAN (SHEET 8 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:	3329 / C44	Sheet:	44 of 57
Issue:	F		

1/10/2021 1:30:50 PM 3329 C01.DWG

SEE CONTINUATION
3329 / C44

ISSUE	DESCRIPTION	DATE
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-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

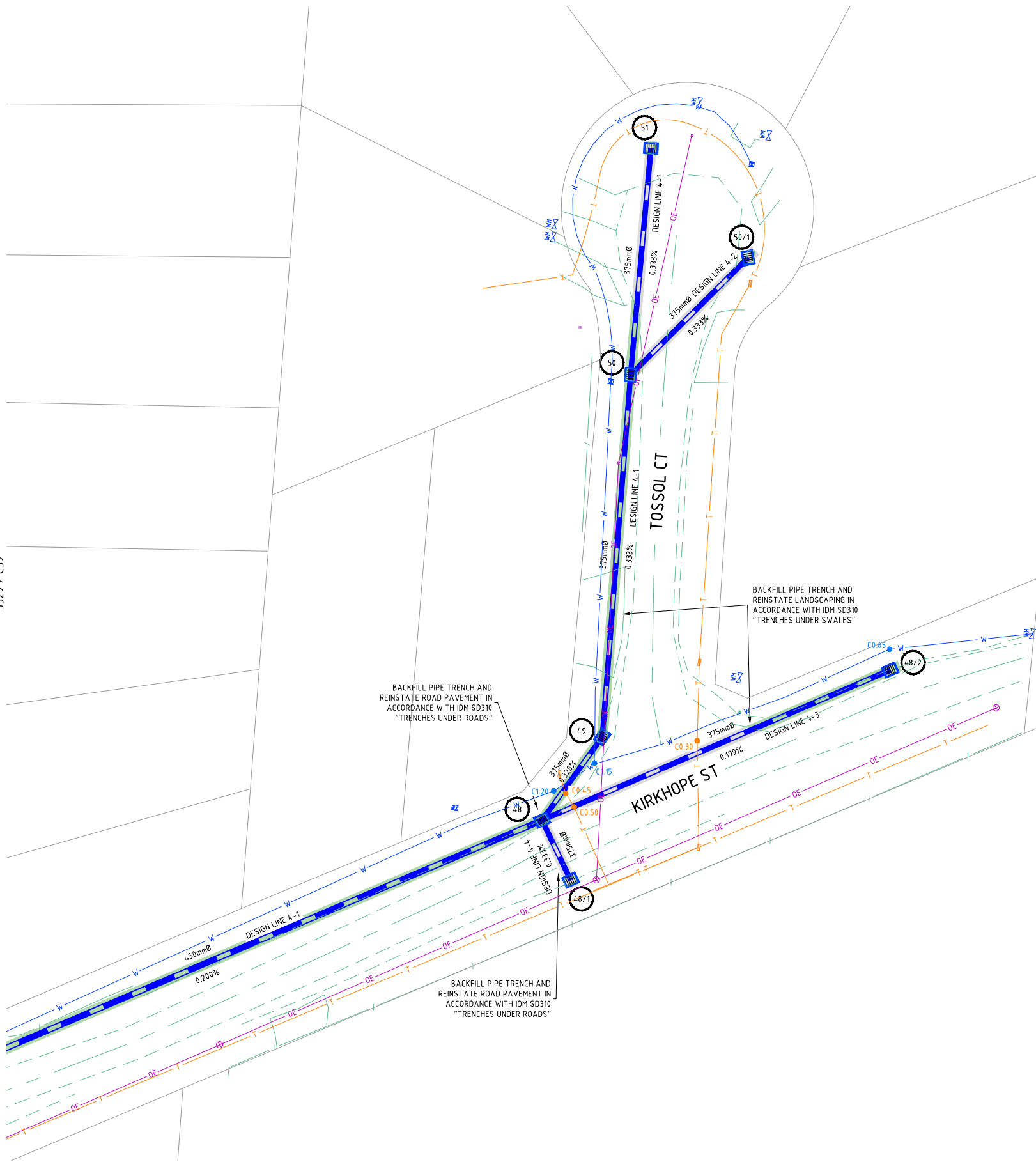


abn: 37 160 560 556
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f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	LAYOUT PLAN (SHEET 9 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
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Issue:		Size:	A1

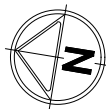
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3329 / C39



ISSUE	DESCRIPTION	DATE
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F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



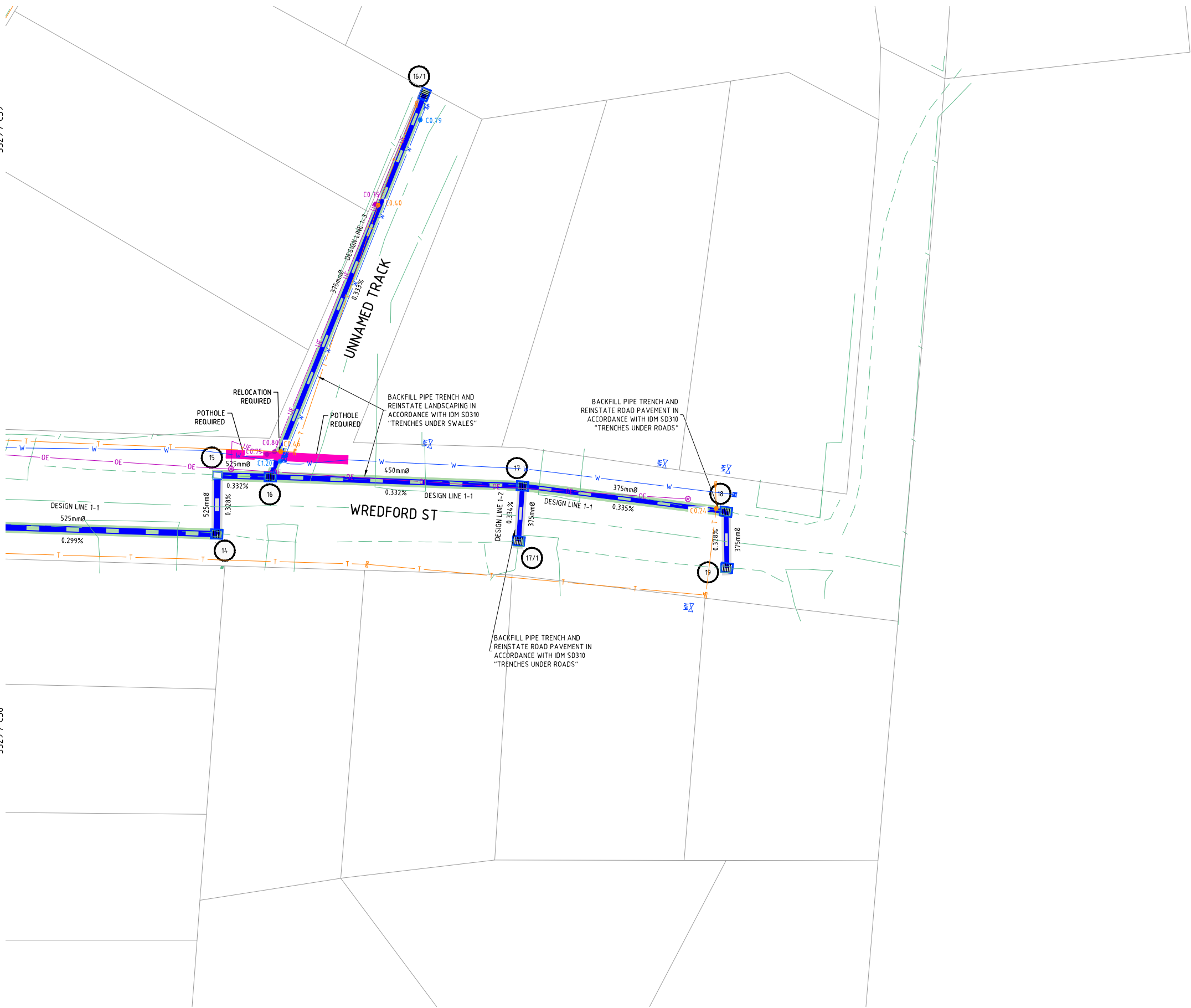
abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
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t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	LAYOUT PLAN (SHEET 10 OF 11)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
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Issue:		Size:	A1
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K SEE CONTINUATION / K
3329 / C39

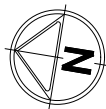
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3329 / C38



ISSUE	DESCRIPTION	DATE
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F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL
Title:	LAYOUT PLAN (SHEET 11 OF 11)

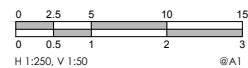
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Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
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Size:	A1	Issue:	F

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F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
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e: info@cafconsulting.com.au
w: cafconsulting.com.au

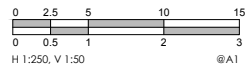
Client:	MURRINDINDI SHIRE COUNCIL		Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT		Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL		Cad File:	3329 C01.DWG	Size:	A1
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F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



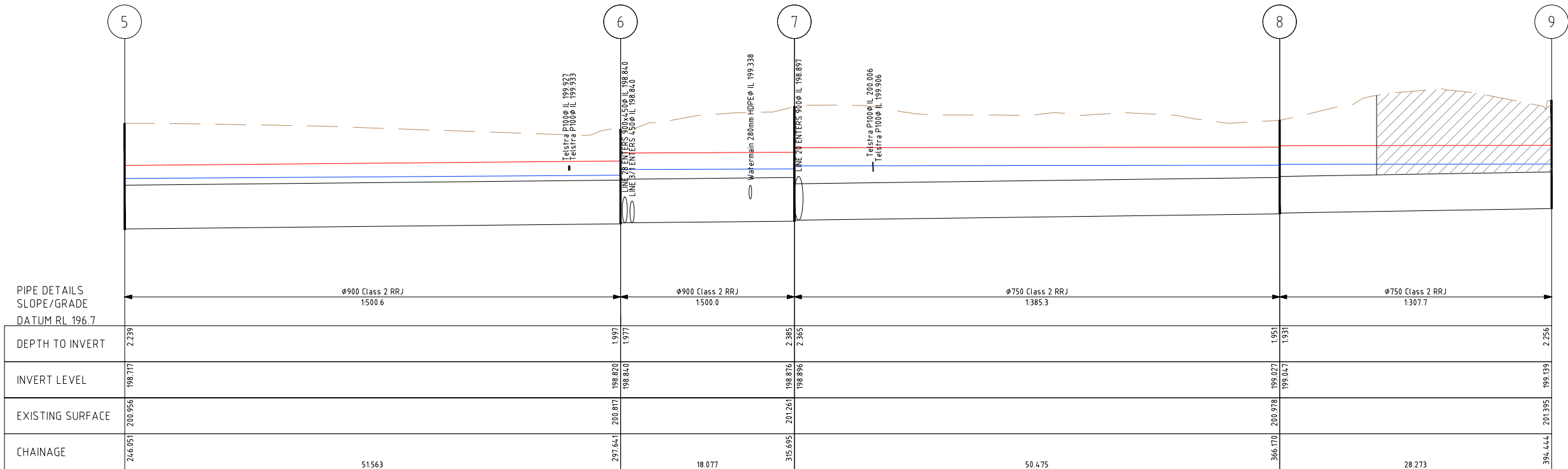
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a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	MURRINDINDI SHIRE COUNCIL
Title:	DESIGN LONG SECTIONS (2 OF 9)

Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:		Sheet:	49 of 57
Issue:		Size:	A1

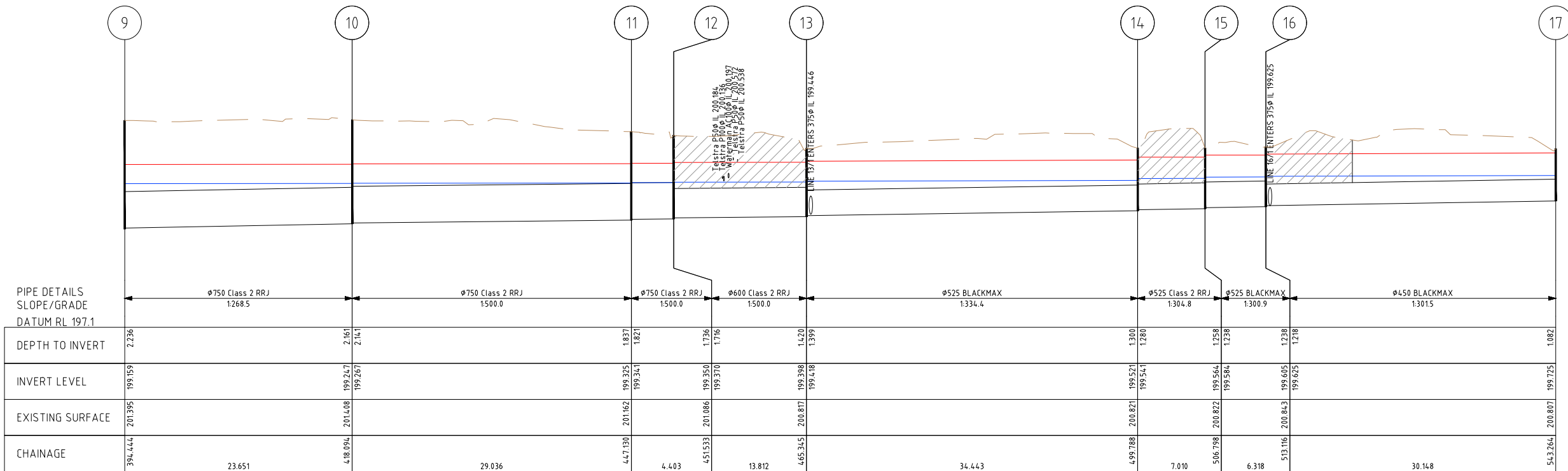
LEGEND

	PROPOSED PIPE
	EXISTING PIPE
	EXISTING SURFACE
	HGL - 1 IN 5 ARI
	HGL - 1 IN 10 ARI
	FCR BACKFILL



DRAINAGE LONGITUDINAL SECTION

(LINE 1-1)

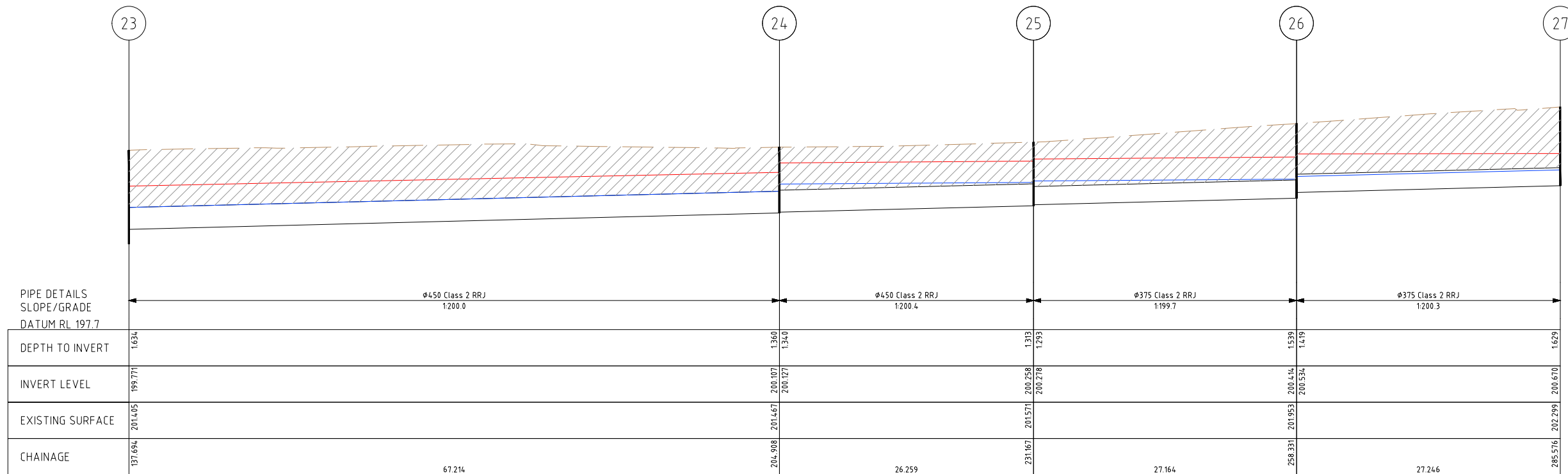


DRAINAGE LONGITUDINAL SECTION

(LINE 1-1)

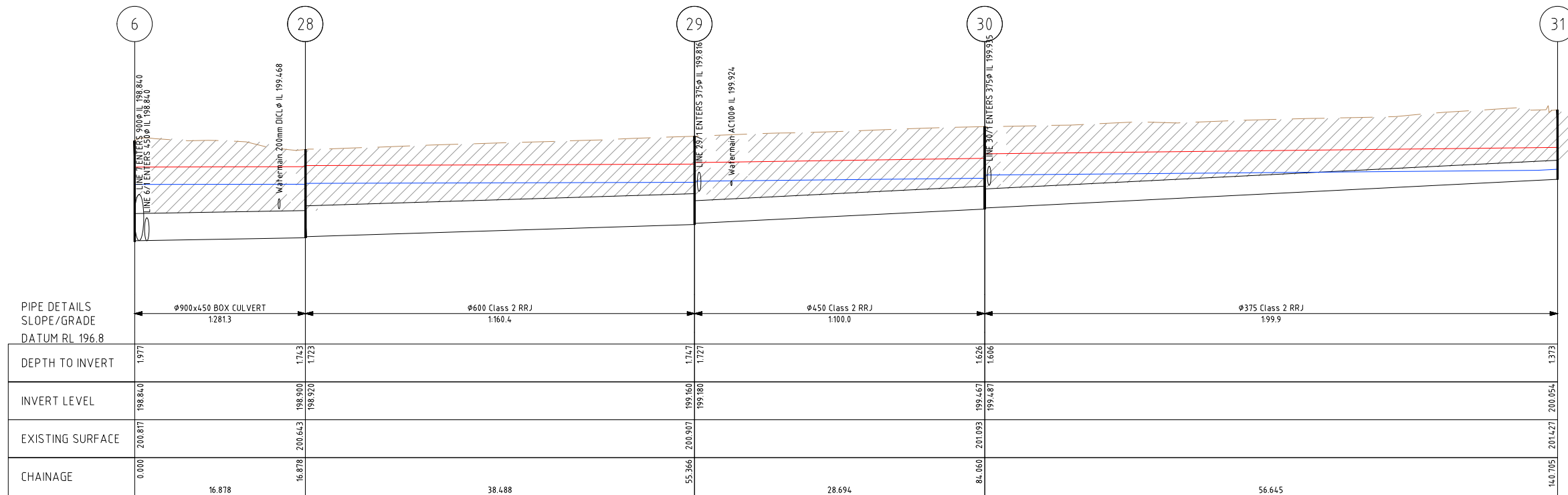
LEGEND

	PROPOSED PIPE
	EXISTING PIPE
	EXISTING SURFACE
	HGL - 1 IN 5 ARI
	HGL - 1 IN 10 ARI
	FCR BACKFILL



DRAINAGE LONGITUDINAL SECTION

(LINE 1-5)



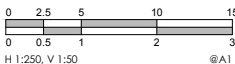
DRAINAGE LONGITUDINAL SECTION

(LINE 1-6)

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F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	MURRINDINDI SHIRE COUNCIL
Title:	DESIGN LONG SECTIONS (4 OF 9)

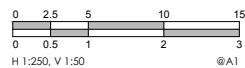
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Designed:	S.GALEA 27/07/2020	Approved:	N.Y.-HUSABND 01/10/2021
Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Drawing No:		Sheet:	51 of 57
Size:	A1	Issue:	F

1/10/2021 1:31:21 PM 3329 C01.DWG

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F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
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A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

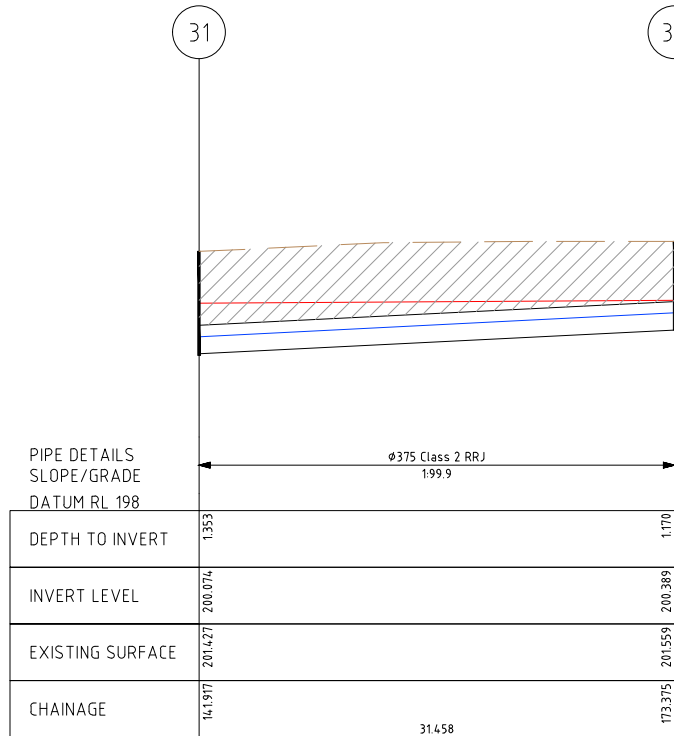
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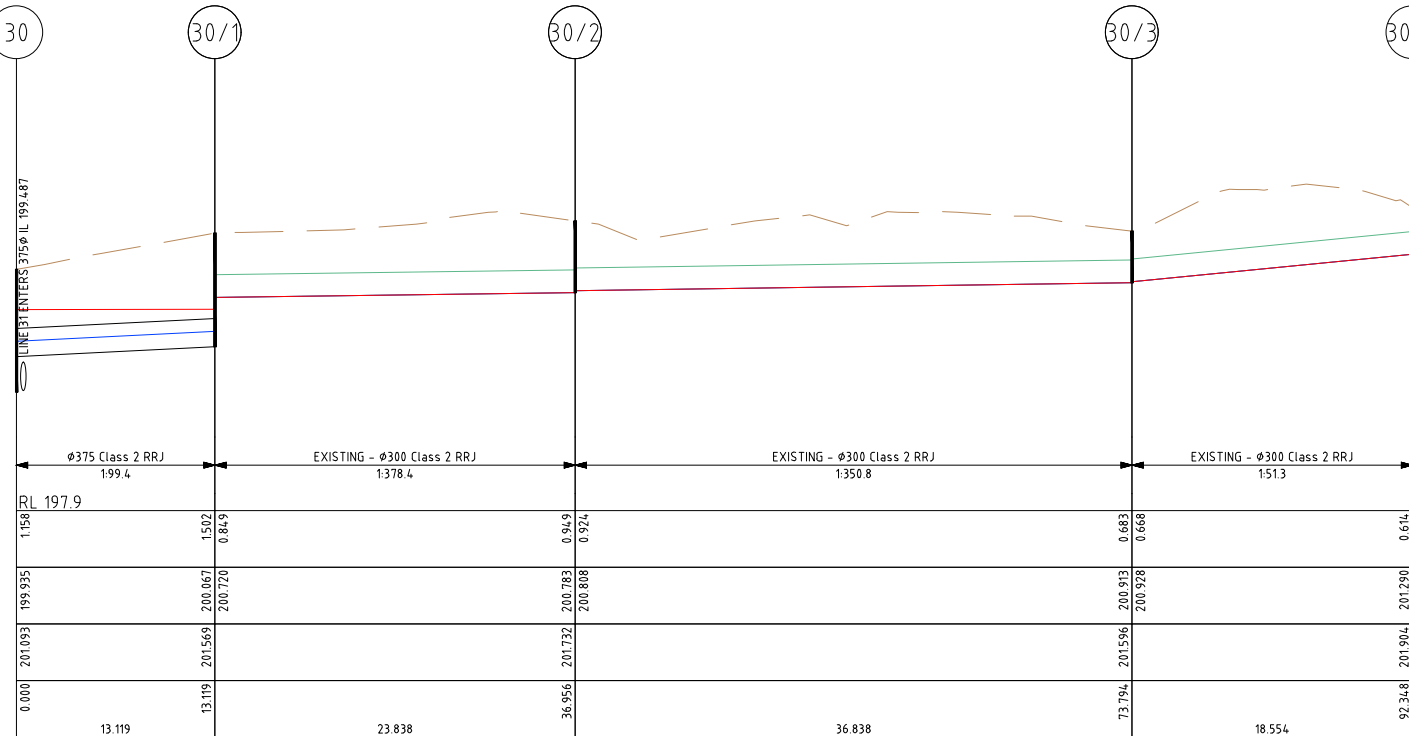
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Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
Property:	THORNTON, VICTORIA 3712
Title:	MURRINDINDI SHIRE COUNCIL
	DESIGN LONG SECTIONS (5 OF 9)

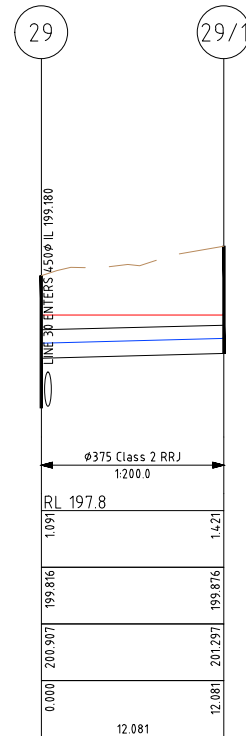
Surveyed:	M.V & K.M	22/06/2020	Drawn:	S.GALEA	27/07/2020
Designed:	S.GALEA	27/07/2020	Approved:	N.Y.-HUSABND	01/10/2021
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Drawing No:			Sheet:		
	3329 / C52			52 of 57	F



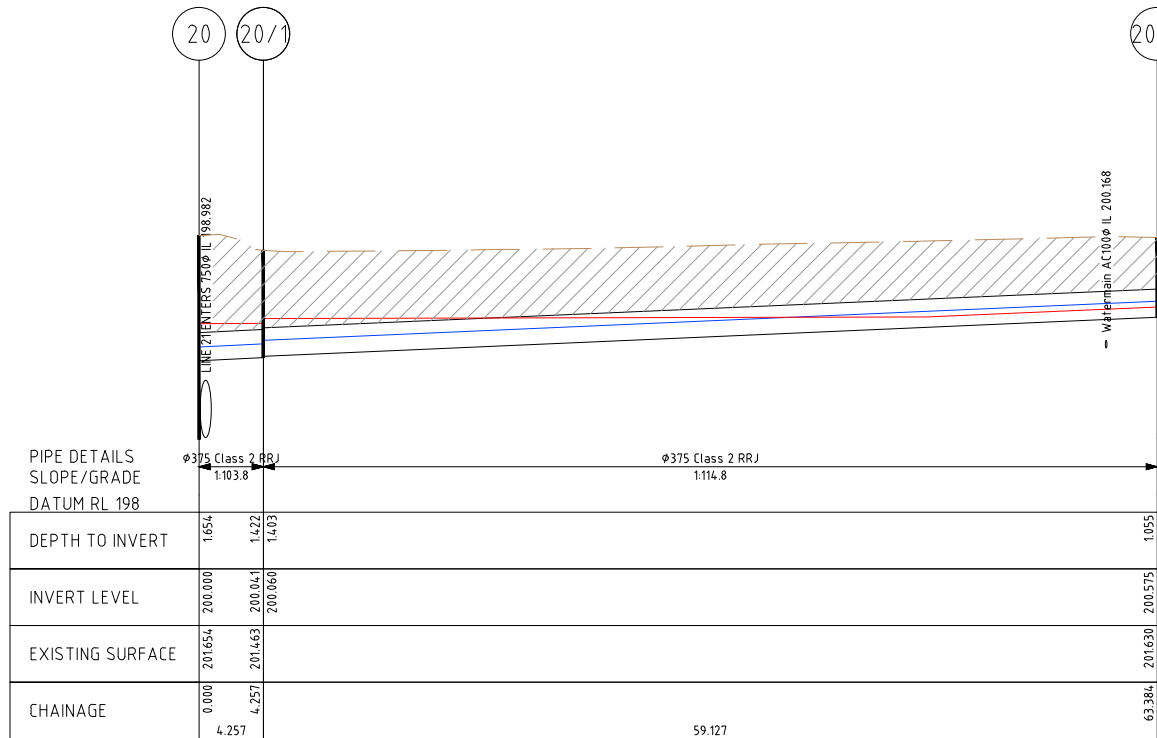
DRAINAGE LONGITUDINAL SECTION
(LINE 1-6)



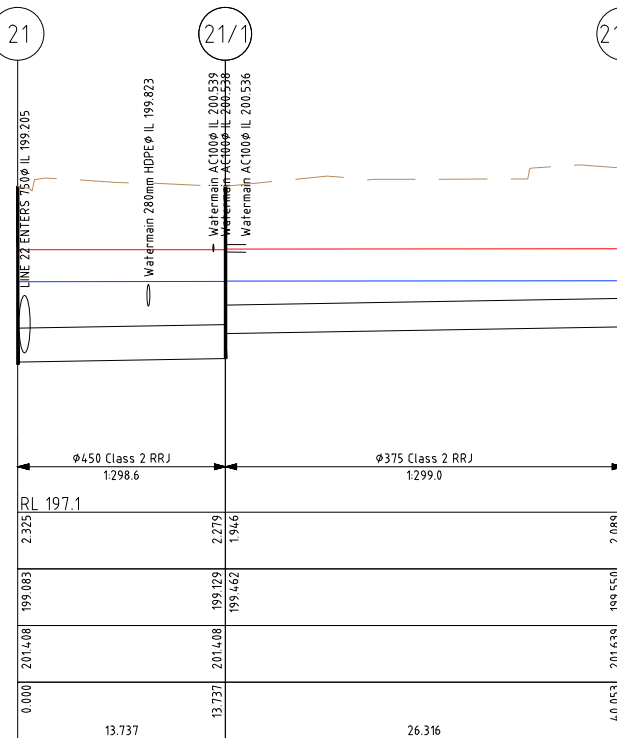
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(LINE 1-7)



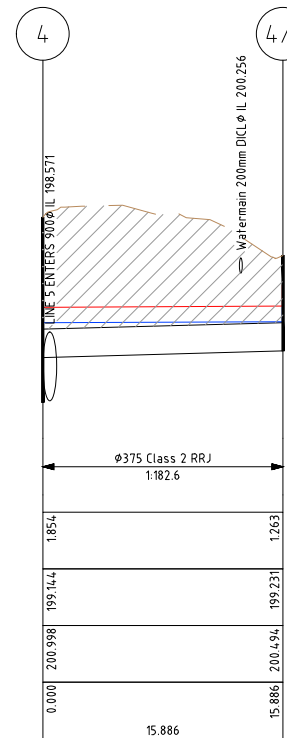
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(LINE 1-8)



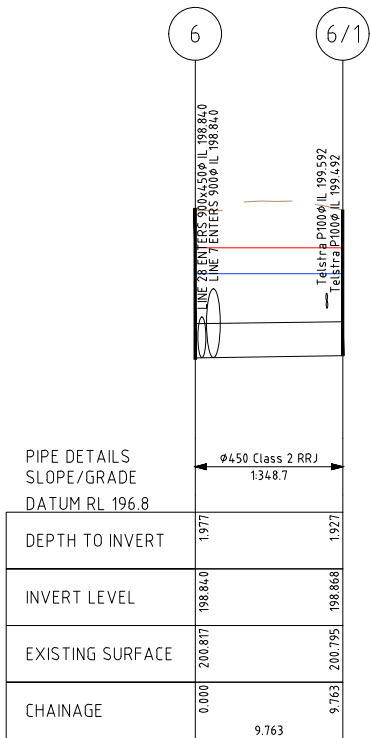
DRAINAGE LONGITUDINAL SECTION
(LINE 1-9)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-10)



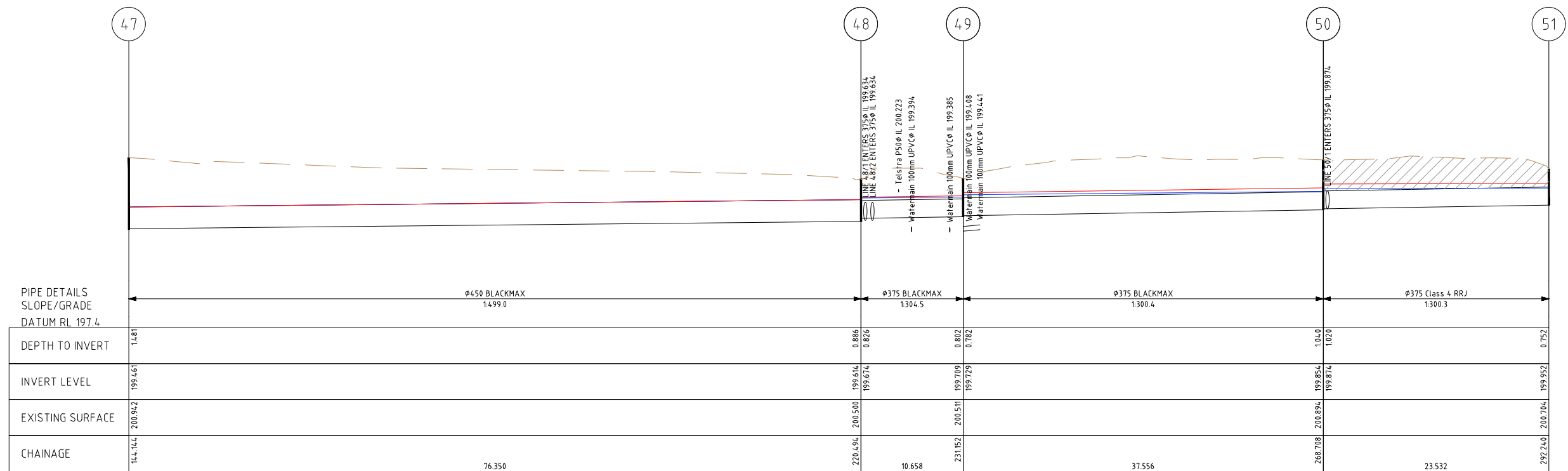
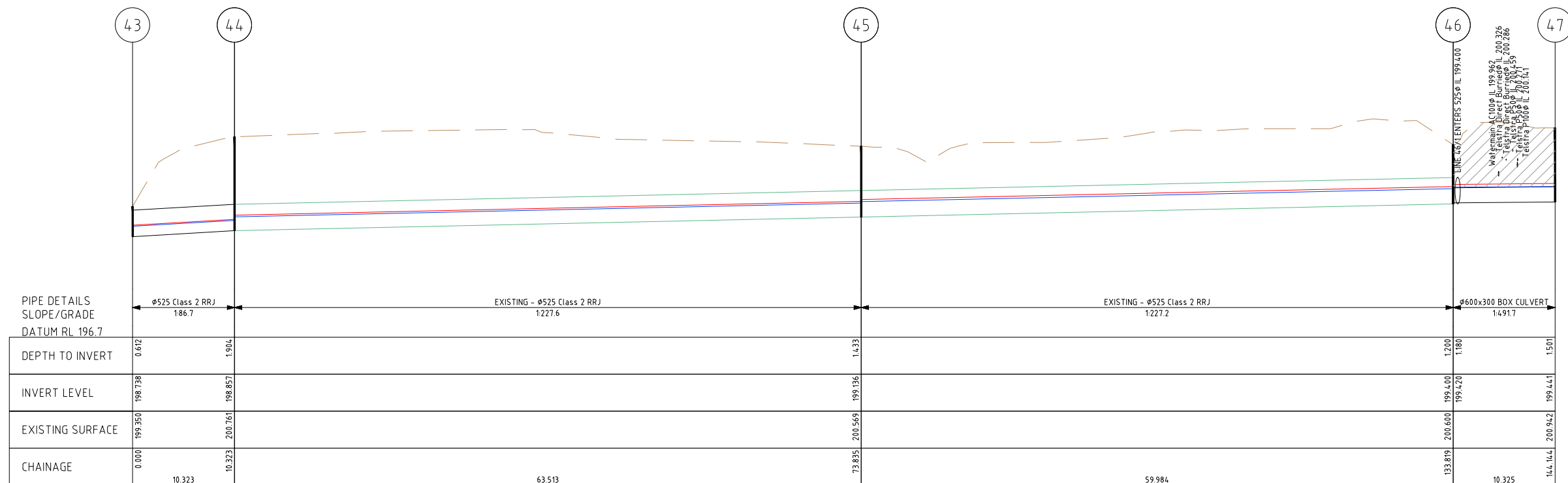
DRAINAGE LONGITUDINAL SECTION
(LINE 1-11)



DRAINAGE LONGITUDINAL SECTION
(LINE 1-12)

LEGEND

—	PROPOSED PIPE
—	EXISTING PIPE
---	EXISTING SURFACE
---	HGL - 1 IN 5 ARI
---	HGL - 1 IN 10 ARI
▨	FCR BACKFILL



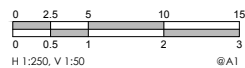
LEGEND

	PROPOSED PIPE
	EXISTING PIPE
	EXISTING SURFACE
	HGL - 1 IN 5 ARI
	HGL - 1 IN 10 ARI
	FCR BACKFILL

-	-	-
-	-	-
-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER



abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC
3632
t: 03 5831 3347
f: 03 5831 3343
e: info@caficonsulting.com.au
w: caficonsulting.com.au

Client:	MURRINDINDI SHIRE COUNCIL
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT
Location:	THORNTON TOWNSHIP
	THORNTON, VICTORIA 3712
Property:	MURRINDINDI SHIRE COUNCIL
	-
Title:	DESIGN LONG SECTIONS (8 OF 9)
	-

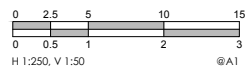
Surveyed: M.V & K.M 22/06/2020	Drawn: S.GALEA 27/07/2020
Designed: S.GALEA 27/07/2020	Approved: N.Y-HUSABND 01/10/2021
Cad File: 3329 C01.DWG	Size: A1
Scale: SCALE AS SHOWN	
Drawing No: 3329 / C55	Sheet: 55 of 57
	Issue: F

1/10/2021 1:31:44 PM 3329 C01.DWG

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-	-	-
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021
E	UPDATED E2DESIGNLAB AND ISSUE FOR TENDER	24/09/2021
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021
C	DETAILED DRAINAGE DESIGN	02/02/2021
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020
A	EXISTING CONDITIONS	27/07/2020
ISSUE	DESCRIPTION	DATE

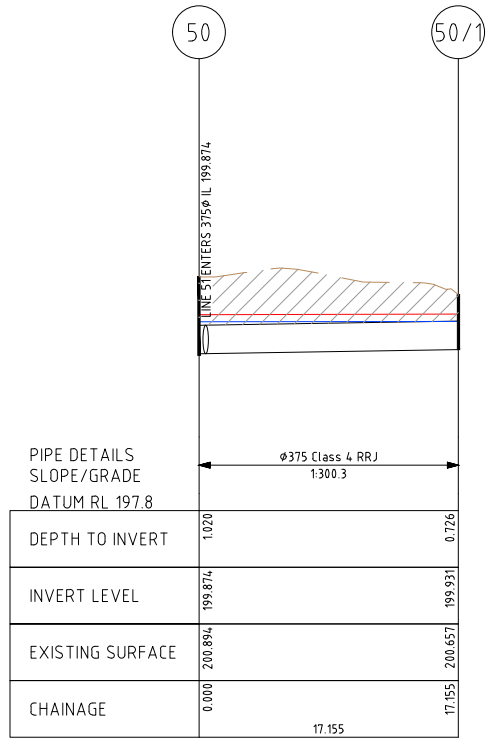
NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

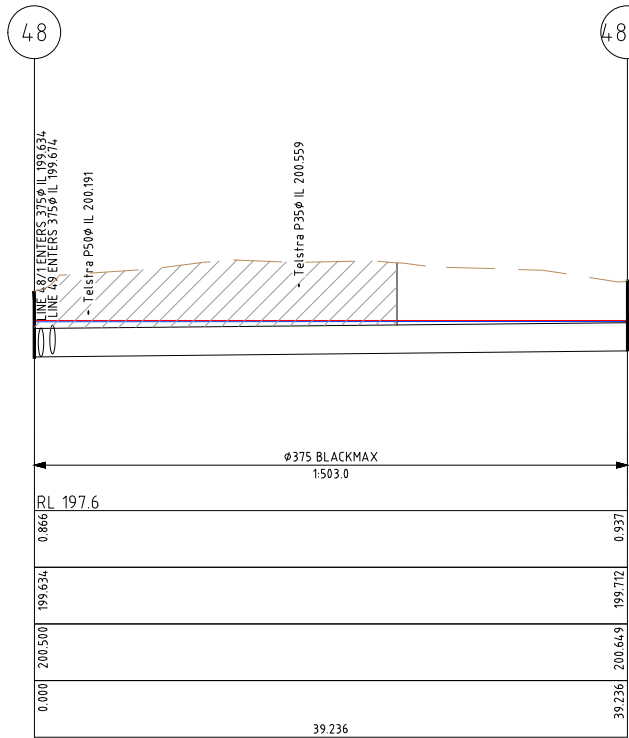


abn: 37 160 560 556
a: 38 Wyndham Street, Shepparton
p: P.O. Box 1948, Shepparton, VIC 3632
t: 03 5831 3347
f: 03 5831 3343
e: info@cafconsulting.com.au
w: cafconsulting.com.au

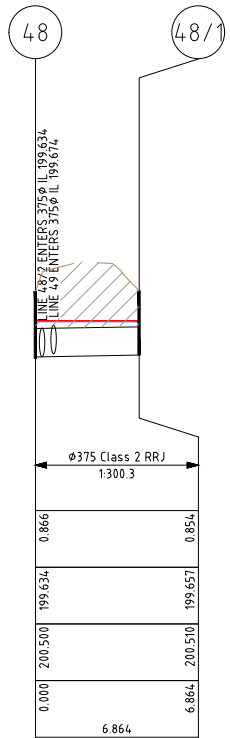
Client:	MURRINDINDI SHIRE COUNCIL		Surveyed:	M.V & K.M 22/06/2020	Drawn:	S.GALEA 27/07/2020
Project Name:	THORNTON STORMWATER DRAINAGE PROJECT		Designed:	S.GALEA 27/07/2020	Approved:	N.Y-HUSABND 01/10/2021
Location:	THORNTON TOWNSHIP THORNTON, VICTORIA 3712 MURRINDINDI SHIRE COUNCIL		Cad File:	3329 C01.DWG	Scale:	SCALE AS SHOWN
Property:	-		Drawing No:	3329 / C56	Sheet:	56 of 57
Title:	DESIGN LONG SECTIONS (9 OF 9)					F



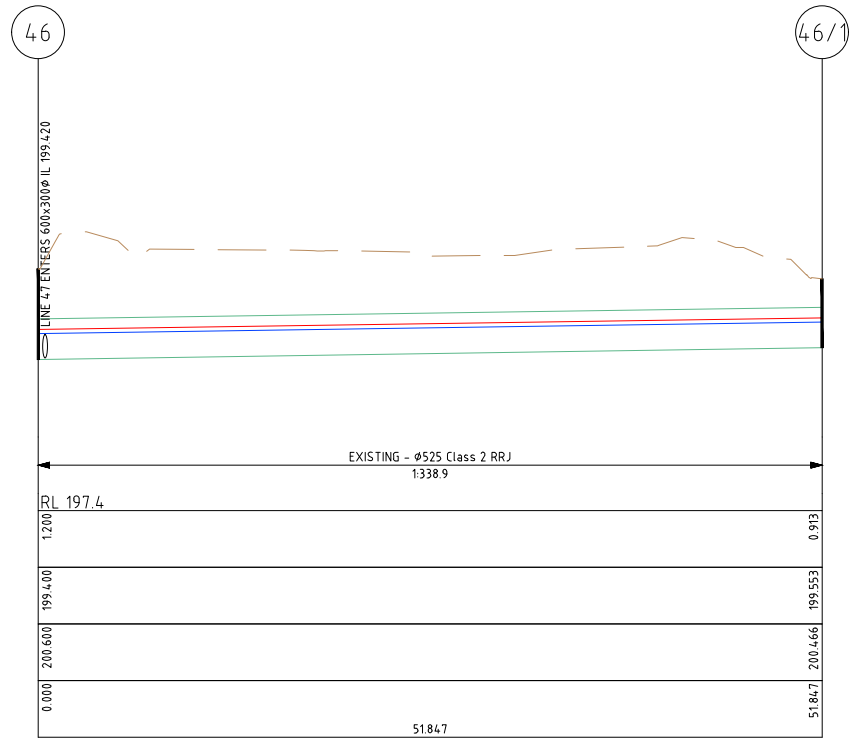
DRAINAGE LONGITUDINAL SECTION
(LINE 4-2)



DRAINAGE LONGITUDINAL SECTION
(LINE 4-3)



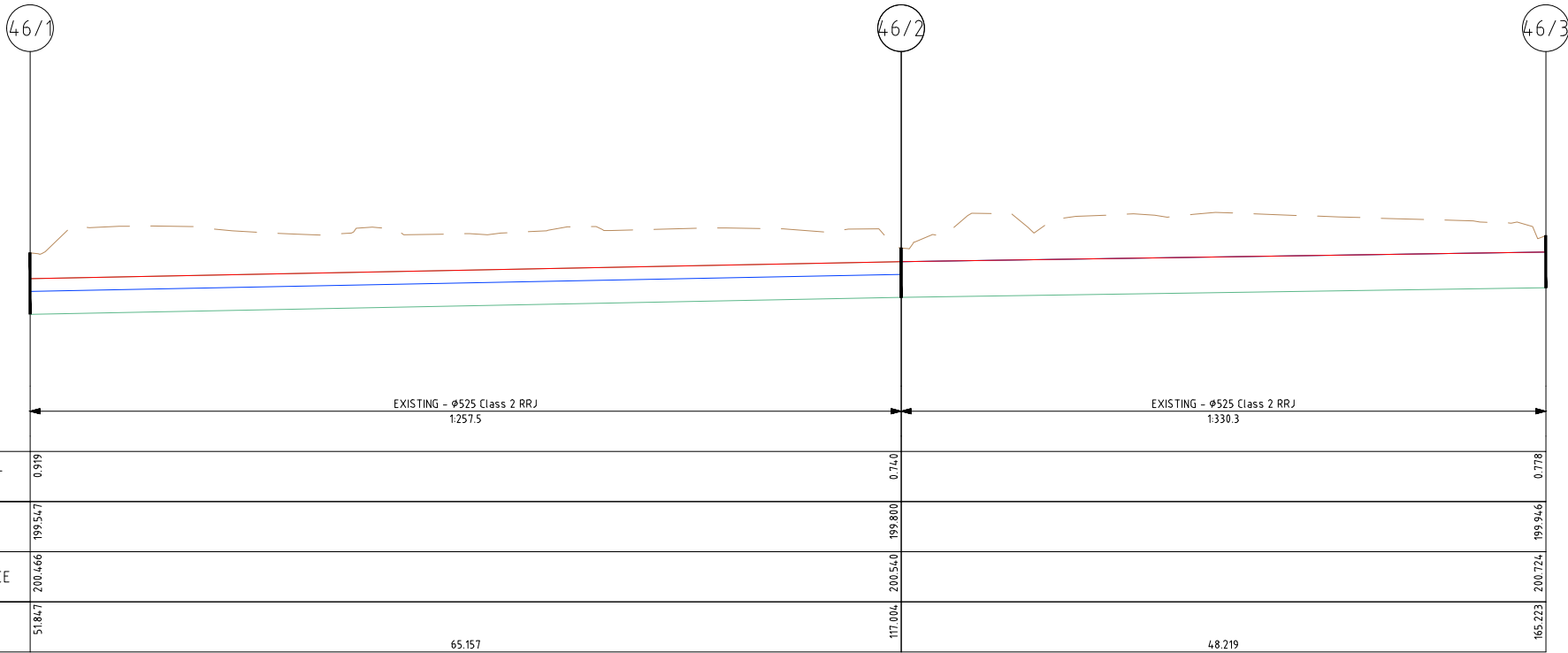
DRAINAGE LONGITUDINAL SECTION
(LINE 4-4)



DRAINAGE LONGITUDINAL SECTION
(LINE 4-5)

LEGEND

	PROPOSED PIPE
	EXISTING PIPE
	EXISTING SURFACE
	HGL - 1 IN 5 ARI
	HGL - 1 IN 10 ARI
	FCR BACKFILL



DRAINAGE LONGITUDINAL SECTION
(LINE 4-5)

DESIGN STORMWATER NETWORK

PIT SCHEDULE - DESIGN LINE 1												
PIT NO.	PIT TYPE	PIT WIDTH	PIT LENGTH	OUTLET DIAMETER	OUTLET INVERT RL	INLET DIAMETER	INLET INVERT RL	PIT DEPTH	PIT LID LEVEL	EASTING	NORTHING	COMMENT
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
1	HEADWALL	--	--			900	198.144	3.485	201.629	393382.435	5876536.723	
2	JP	900	1200	900	198.225	900	198.245	3.257	201.482	393371.859	5876497.632	
3	JP	900	1200	900	198.407	900	198.427	2.942	201.350	393344.960	5876421.179	
4	GSEP (HAUNCHED)	900	2000	900	198.551	900	198.571	2.584	201.135	393325.186	5876362.604	AS PER IDM 4.10
						375	199.144					
5	JP	900	1200	900	198.697	900	198.717	2.259	200.956	393304.327	5876303.491	
6	DEPRESSED GP	1200	1500	900	198.820	900x450	198.840	1.997	200.817	393287.162	5876254.841	
						900	198.840					
						450	198.840					
7	JP	900	1200	900	198.876	900	198.897	2.385	201.261	393280.275	5876238.131	
						750	198.896					
8	JP	900	900	750	199.027	750	199.047	1.951	200.978	393231.985	5876252.821	
9	SEP	900	900	750	199.139	750	199.159	2.256	201.395	393222.956	5876226.028	
10	JP	900	900	750	199.247	750	199.267	2.161	201.408	393200.595	5876233.731	
11	SEP	900	900	750	199.325	750	199.341	1.837	201.162	393171.608	5876232.040	
12	GSEP	900	900	750	199.350	600	199.370	1.736	201.086	393167.626	5876233.918	
13	DEPRESSED GP	900	900	600	199.398	525	199.418	1.420	200.817	393159.883	5876222.481	
						375	199.446					
14	DEPRESSED GP	900	900	525	199.521	525	199.541	1.300	200.821	393164.359	5876188.330	
15	JP	900	900	525	199.584	525	199.584	1.258	200.822	393171.291	5876189.375	
16	DEPRESSED GP	900	900	525	199.605	450	199.625	1.238	200.843	393172.131	5876183.113	
						375	199.625					
17	DEPRESSED GP	600	900	450	199.725	375	199.745	1.082	200.807	393175.920	5876153.204	
						375	199.745					
18	DEPRESSED GP	600	900	375	199.827	375	199.847	1.069	200.896	393176.812	5876128.726	
19	DEPRESSED GP	600	900	375	199.869			0.965	200.834	393170.217	5876127.541	
21/1	SEP	600	900	450	199.129	375	199.462	2.279	201.408	393298.599	5876181.347	
21/2	GSEP	600	900	375	199.550			2.089	201.639	393305.241	5876156.628	
4/1	DEPRESSED GP	600	900	375	199.231			1.263	200.494	393339.019	5876357.677	
6/1	DEPRESSED GP	600	900	450	198.868			1.927	200.795	393277.957	5876258.093	
17/1	DEPRESSED GP	600	900	375	199.767			1.085	200.852	393169.365	5876152.609	
16/1	DEPRESSED GP	600	900	375	199.789			1.611	201.400	393220.182	5876172.296	
13/1	DEPRESSED GP	600	900	375	199.470			1.431	200.900	393166.937	5876222.886	
20	JP	900	1200	900	198.962	750	198.982	2.692	201.654	393269.651	5876207.245	
						375	200.000					
21	JP	900	900	750	199.056	450	199.083	2.352	201.408	393304.325	5876194.804	
						750	199.205					
22	GSEP	900	900	750	199.287	750	199.307	2.012	201.299	393325.105	5876186.328	
23	GSEP	900	900	750	199.471	450	199.771	1.934	201.405	393367.743	5876169.741	
24	GSEP	900	900	450	200.107	450	200.127	1.360	201.467	393430.592	5876145.913	
25	GSEP	600	900	450	200.258	375	200.278	1.313	201.571	393455.056	5876136.372	
26	GSEP	600	900	375	200.414	375	200.534	1.539	201.953	393480.389	5876126.568	
27	GSEP	600	900	375	200.670			1.629	202.299	393505.807	5876116.757	
28	GSEP	900	1500	900x450	198.900	600	198.920	1.743	200.643	393303.236	5876249.693	
29	GSEP	600	900	600	199.160	450	199.180	1.747	200.907	393338.987	5876235.439	
						375	199.816					
30	JP	600	900	450	199.467	375	199.487	1.626	201.093	393365.595	5876224.697	
						375	199.935					
31	GSEP	600	900	375	200.054	375	200.074	1.373	201.427	393418.586	5876204.683	
32	GSEP	600	900	375	200.389			1.170	201.559	393447.783	5876193.087	
30/1	DEPRESSED GP	600	900	375	200.067	300	200.720	1.502	201.569	393361.227	5876212.327	
30/3	EXISTS			300	200.913	300	200.928	0.683	201.596	393417.799	5876190.393	EXISTING PIT TO REMAIN
30/2	EXISTS			300	200.783	300	200.808	0.949	201.732	393383.441	5876203.680	EXISTING PIT TO REMAIN
30/4	EXISTS			300	201.290			0.614	201.904	393413.885	5876172.257	EXISTING PIT TO REMAIN
29/1	DEPRESSED GP	600	900	375	199.876			1.421	201.297	393334.128	5876224.379	
20/1	GSEP	600	900	375	200.041	375	200.060	1.422	201.463	393270.587	5876203.092	
20/2	GSEP	600	900	375	200.575			1.055	201.630	393286.416	5876146.123	

PIT SCHEDULE - DESIGN LINE 2												
PIT NO.	PIT TYPE	PIT WIDTH	PIT LENGTH	OUTLET DIAMETER	OUTLET INVERT RL	INLET DIAMETER	INLET INVERT RL	PIT DEPTH	PIT LID LEVEL	EASTING	NORTHING	COMMENT
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
33	HEADWALL	--	--			375	200.148	0.530	200.678	393403.453	5875796.348	
34	SEP	600	900	375	200.579	375	200.599	1.603	202.182	393379.466	5875879.179	
35	SEP	600	900	375	200.898			0.905	201.803	393363.087	5875936.645	

PIT SCHEDULE - DESIGN LINE 3												
PIT NO.	PIT TYPE	PIT WIDTH	PIT LENGTH	OUTLET DIAMETER	OUTLET INVERT RL	INLET DIAMETER	INLET INVERT RL	PIT DEPTH	PIT LID LEVEL	EASTING	NORTHING	COMMENT
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
36	EXISTS					450	200.442	0.145	200.587	393387.786	5875793.161	
37	EXISTS			450	200.445	450	200.445	1.686	202.131	393382.911	5875808.705	EXISTING PIT TO REMAIN
38	EXISTS			450	200.638	450	200.691	1.420	202.058	393355.136	5875904.960	EXISTING PIT TO REMAIN
39	EXISTS			450	200.913	450	200.936	0.749	201.662	393324.162	5876017.369	EXISTING PIT TO REMAIN
40	EXISTS			450	200.941	450	200.961	0.759	201.700	393316.572	5876044.020	MODIFY EXISTING PIT
41	SEP	600	900	450	200.992	450	201.012	0.812	201.804	393331.375	5876048.963	
42	GSEP	600	900	450	201.038			0.740	201.777	393331.175	5876056.729	

PIT SCHEDULE - DESIGN LINE 4												
PIT NO.	PIT TYPE	PIT WIDTH	PIT LENGTH	OUTLET DIAMETER	OUTLET INVERT RL	INLET DIAMETER	INLET INVERT RL	PIT DEPTH	PIT LID LEVEL	EASTING	NORTHING	COMMENT
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
43	EXISTS					525	198.738	0.612	199.350	392853.339	5876213.116	EXISTING PIT TO REMAIN
44	EXISTS			525	198.857	525	198.857	1.904	200.761	392860.994	5876206.191	EXISTING PIT TO REMAIN
45	EXISTS			525	199.136	525	199.136	1.433	200.569	392924.286	5876211.482	EXISTING PIT TO REMAIN
46	EXISTS			525	199.400	525	199.400	1.200	200.600	392984.018	5876216.970	MODIFY EXISTING PIT
						600x300	199.420					
47	DEPRESSED GP	900	1200	600x300	199.441	450	199.461	1.501	200.942	392991.170	5876209.523	
48	DEPRESSED GP	600	900	450	199.614	375	199.674	0.886	200.500	393031.966	5876144.986	
						375	199.634					
						375	199.634					
49	DEPRESSED GP	600	900	375	199.709	375	199.729	0.802	200.511	393041.497	5876140.217	
50	DEPRESSED GP	600	900	375	199.854	375	199.874	1.040	200.894	393078.919	5876143.382	
						375	199.874					
51	DEPRESSED GP	600	900	375	199.952			0.752	200.704	393102.390	5876145.079	
50/1	DEPRESSED GP	600	900	375	199.931			0.726	200.657	393092.825	5876133.336	
48/2	DEPRESSED GP	600	900	375	199.712			0.937	200.649	393053.113	5876111.936	
48/1	DEPRESSED GP	600	900	375	199.657			0.854	200.510	393026.327	5876141.072	
46/3	EXISTS			525	199.946			0.778	200.724	393148.621	5876231.268	MODIFY EXISTING PIT
46/2	EXISTS			525	199.800	525	199.800	0.740	200.540	393100.591	5876227.003	EXISTING PIT TO REMAIN
46/1	EXISTS			525	199.553	525	199.547	0.913	200.466	393035.684	5876221.301	EXISTING PIT TO REMAIN

1/10/2021 1:31:45 PM 3329 C01.DWG

-	-	-	NOTATIONS:
-	-	-	SURVEY DATUM THORNTON PM's 37, 48 & 53
-	-	-	PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
-	-	-	LEVELS ARE IN A.H.D
F	UPDATED EXTERNAL REFERENCE DRAWINGS	01/10/2021	CONTOUR INTERVAL IS 0.10m
E	UPDATED EZDESIGNLAB AND ISSUE FOR TENDER	24/09/2021	
D	HIGHLIGHT WATER MAIN CONFLICTS	25/05/2021	
C	DETAILED DRAINAGE DESIGN	02/02/2021	
B	PRELIMINARY DRAINAGE DESIGN	02/09/2020	
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ISSUE	DESCRIPTION	DATE	

NOTATIONS:
SURVEY DATUM THORNTON PM's 37, 48 & 53
PM 37 RL 200.782m, PM 48 RL 199.927m & PM 53 RL 200.698m
LEVELS ARE IN A.H.D
CONTOUR INTERVAL IS 0.10m

TENDER

