

REFER TO DRAWING FEE00001/12 FOR ROAD TYPICAL SECTIONS.

REAL PROPERTY DESCRIPTION
 Lot 2 on SP208523
 Parish of ROSS
 County of ELPHINSTONE
 DUNLOP STREET - KELSO



LAYOUT PLAN

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94

Scale: 0 5 10 15 20m

LEVEL DATUM A.H.D.
 Refer PM114246 RL. 24.668
 Oldenburg Place

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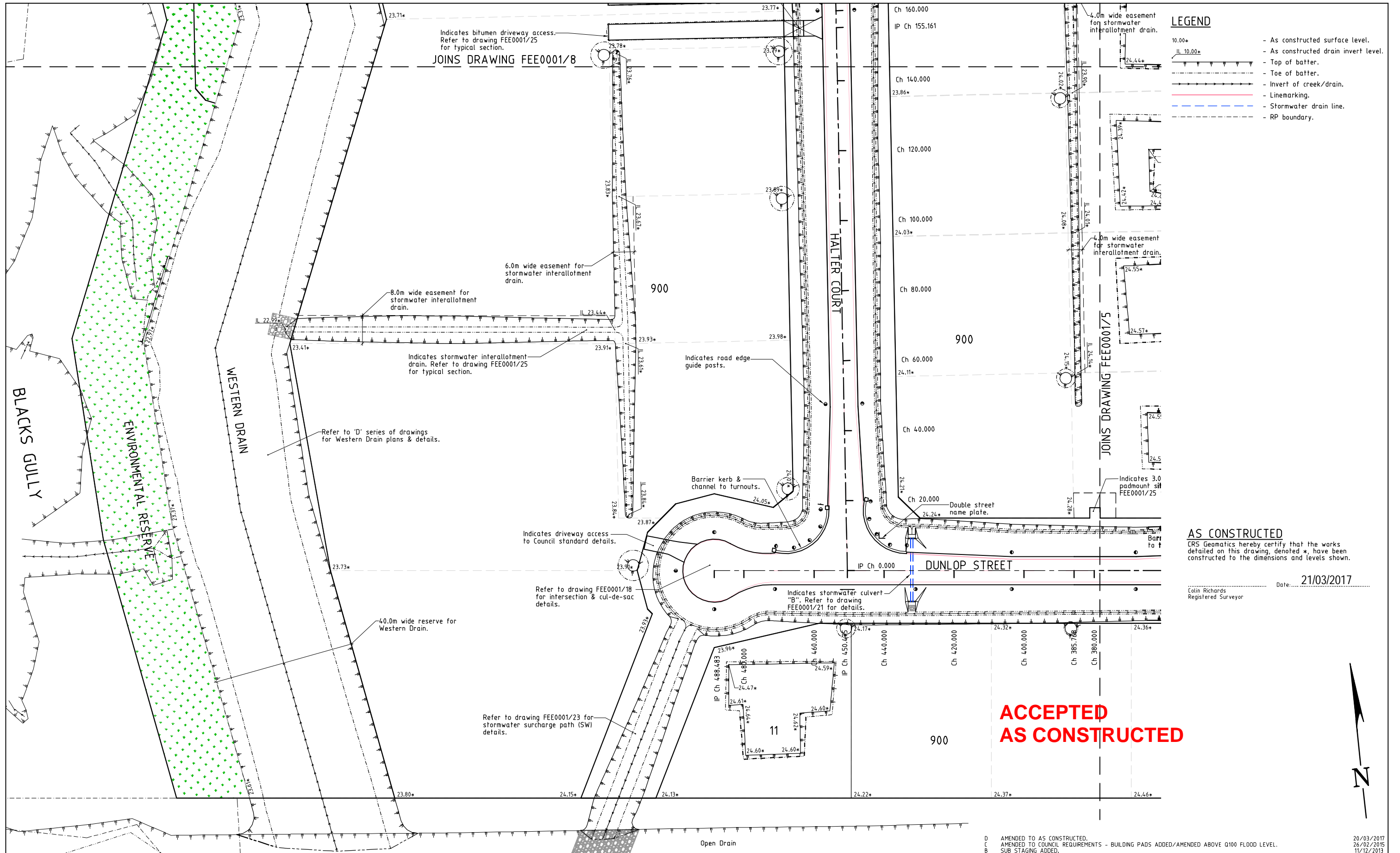
NORTHERN CONSULTING engineers

Civil & Structural Engineers
 50 Punari Street, Curralong 4812
 Phone: [07] 4725 5550 Fax: [07] 4725 5850
 Email: mail@nceng.com.au
 Milton Messer & Associates Pty. Ltd.
 ACN 100 817 356

F	AMENDED TO AS CONSTRUCTED - BUILDING PADS INCLUDED.	20/03/2017
E	AMENDED TO AS CONSTRUCTED.	11/03/2016
D	AMENDED TO COUNCIL REQUIREMENTS - BUILDING PADS ADDED/AMENDED ABOVE Q100 FLOOD LEVEL.	26/02/2015
C	AMENDED TO COUNCIL REQUIREMENTS.	05/03/2014
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Issue	Description	Date
Drawn KJM	In Association With MARKWELL GROUP	
Date 16/09/2010	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
Checked HAB		
Approved		
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LAYOUT PLAN ROADWORKS & STORMWATER	
Drawing Number FEE0001/5	Issue F



LEGEND

10.00*	- As constructed surface level.
IL 10.00*	- As constructed drain invert level.
(Symbol: Top of batter)	- Top of batter.
(Symbol: Toe of batter)	- Toe of batter.
(Symbol: Invert of creek/drain)	- Invert of creek/drain.
(Symbol: Linemarking)	- Linemarking.
(Symbol: Stormwater drain line)	- Stormwater drain line.
(Symbol: RP boundary)	- RP boundary.

AS CONSTRUCTED
 CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

Date: 21/03/2017
 Colin Richards
 Registered Surveyor

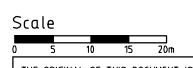
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REFER TO DRAWING FEE00001/12 FOR ROAD TYPICAL SECTIONS.



REAL PROPERTY DESCRIPTION
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 Parish of ROSS
 County of ELPHINSTONE
 DUNLOP STREET - KELSO



LEVEL DATUM A.H.D.
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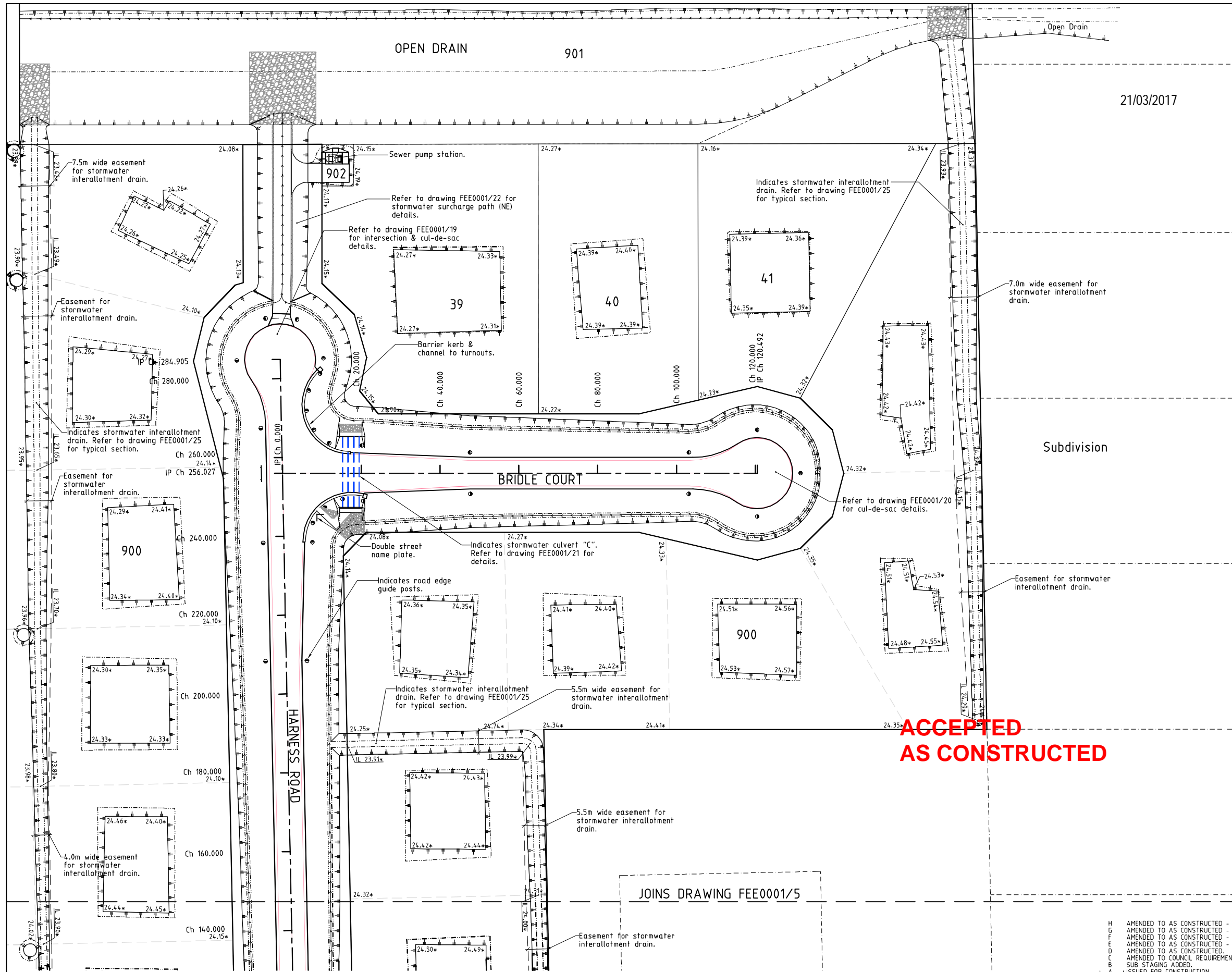
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D	AMENDED TO AS CONSTRUCTED.	20/03/2017
C	AMENDED TO COUNCIL REQUIREMENTS - BUILDING PADS ADDED/AMENDED ABOVE G100 FLOOD LEVEL.	26/02/2015
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Issue	Description	Date
Drawn KJM	In Association With MARKWELL GROUP	
Date 16/09/2010	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
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Approved		
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Drawing Number FEE0001/6	Issue D	



LEGEND

10.00*	- As constructed surface level.
IL 10.00*	- As constructed drain invert level.
	- Top of batter.
	- Toe of batter.
	- Invert of creek/drain.
	- Linemarking.
	- Stormwater drain line.
	- RP boundary.

21/03/2017

**ACCEPTED
AS CONSTRUCTED**

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 DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
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Scale
 0 5 10 15 20m

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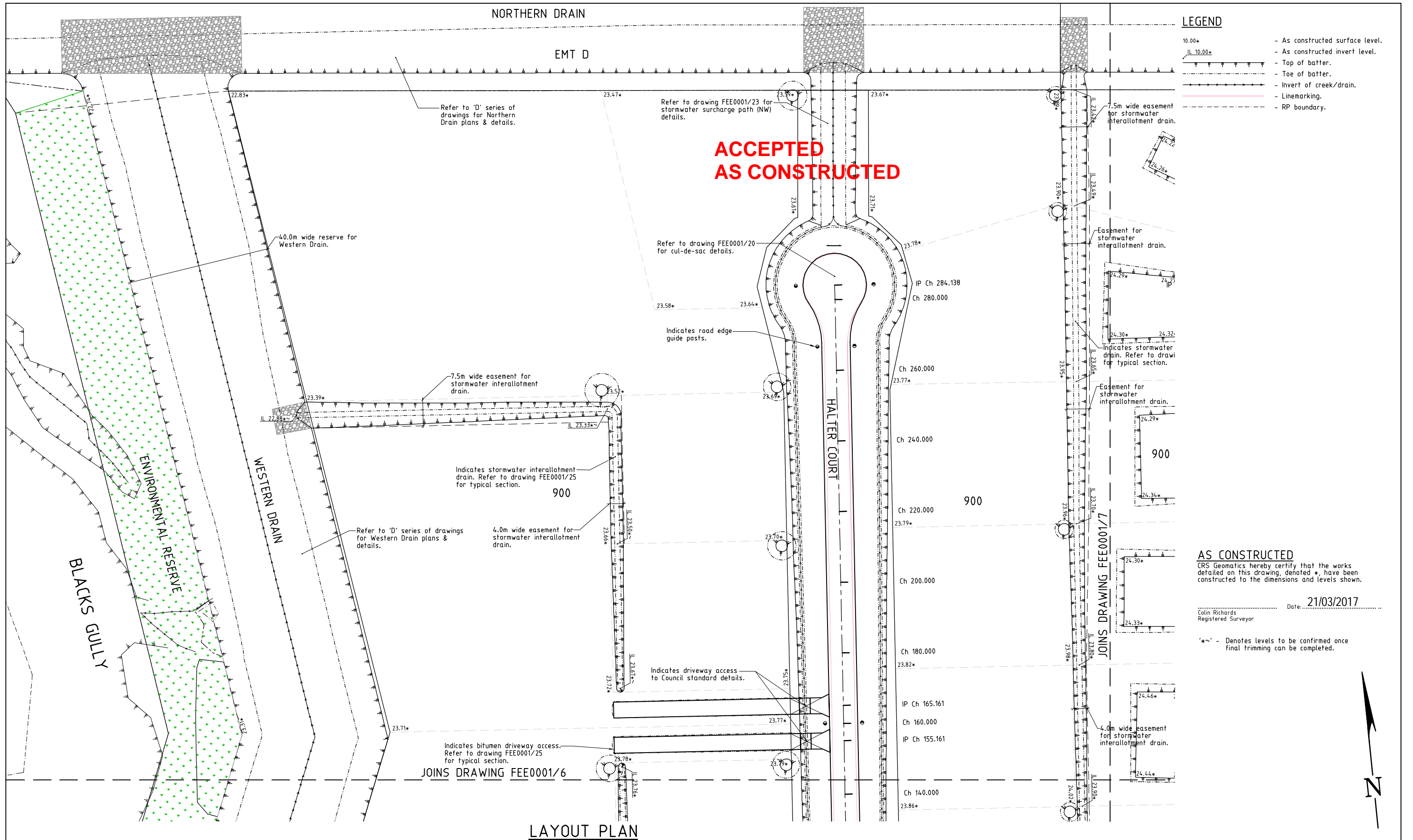
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H	AMENDED TO AS CONSTRUCTED - BUILDING PADS INCLUDED.	20/03/2017
G	AMENDED TO AS CONSTRUCTED - LOT 40 INCLUDED.	23/08/2016
F	AMENDED TO AS CONSTRUCTED - BUILDING PAD AMENDED.	17/03/2016
E	AMENDED TO AS CONSTRUCTED - LOT 41 INCLUDED.	15/03/2016
D	AMENDED TO AS CONSTRUCTED.	11/03/2016
C	AMENDED TO COUNCIL REQUIREMENTS - BUILDING PADS ADDED/AMENDED ABOVE Q100 FLOOD LEVEL.	26/02/2015
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS	09/02/2011

Issue	Description	Date
Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	
Checked HAB Approved	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO	
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LAYOUT PLAN, ROADWORKS & STORMWATER	Drawing Number FEE0001/7	Issue H
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LEGEND

10.00*	- As constructed surface level.
IL 10.00*	- As constructed invert level.
	- Top of batter.
	- Toe of batter.
	- Invert of creek/drain.
	- Linemarking.
	- RP boundary.

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~ - Denotes levels to be confirmed once final trimming can be completed.

LAYOUT PLAN

REFER TO DRAWING FEE00001/12 FOR ROAD TYPICAL SECTIONS.



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 Parish of ROSS
 County of ELPHINSTONE
 DUNLOP STREET - KELSO

Scale: 0 5 10 15 20m

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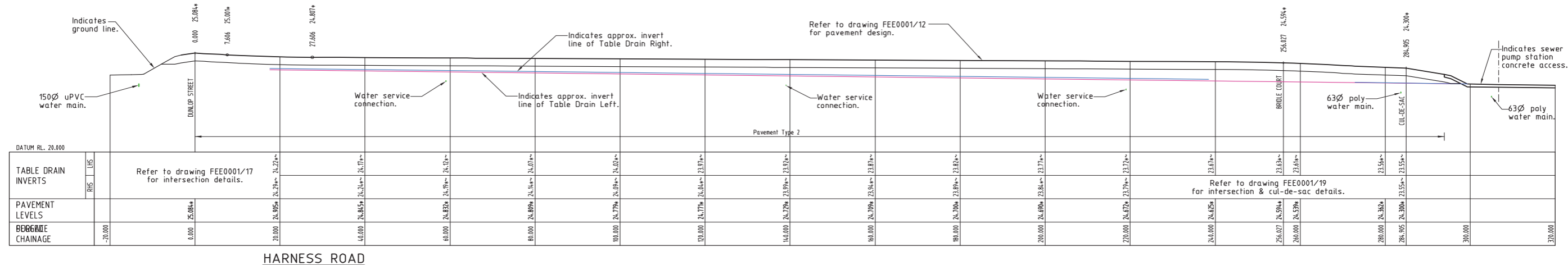
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NORTHERN CONSULTING engineers

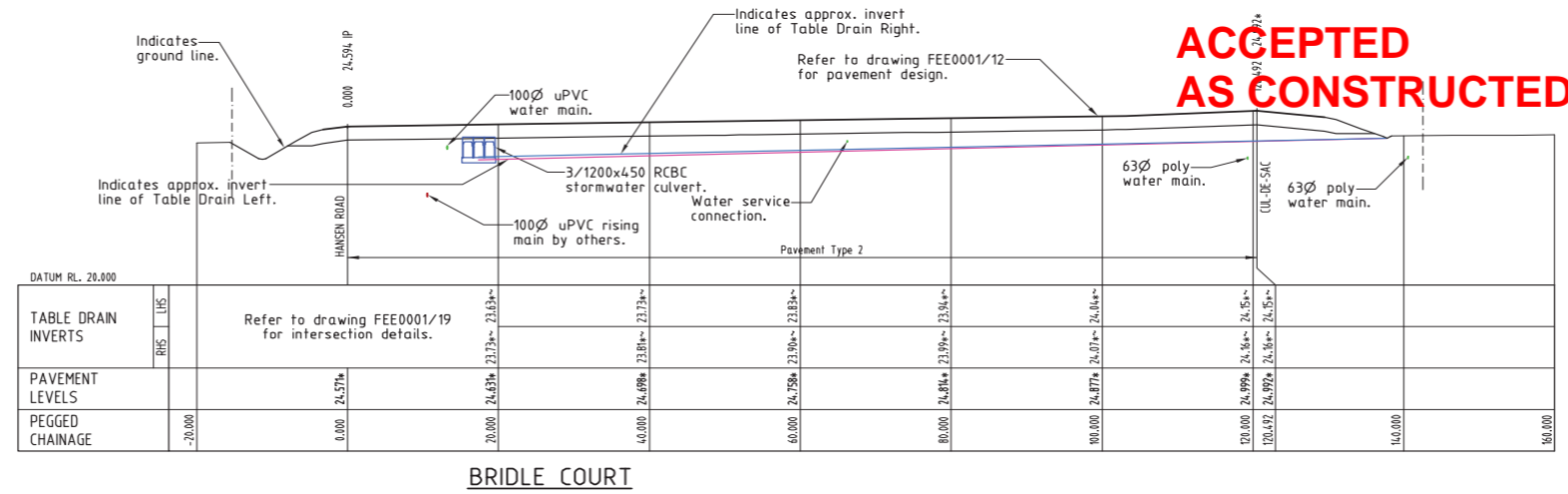
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D	AMENDED TO AS CONSTRUCTED.	20/03/2017
C	AMENDED TO COUNCIL REQUIREMENTS - BUILDING PADS ADDED/AMENDED ABOVE G100 FLOOD LEVEL.	26/02/2015
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P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn	In Association With	LAYOUT PLAN, ROADWORKS & STORMWATER
KJM	MARKWELL GROUP	
Date	52 ALLOTMENT PARK	Drawing Number
16/09/2010	RESIDENTIAL SUBDIVISION	
Checked	DUNLOP STREET, KELSO	FEE0001/8
Approved	PINNACLE VIEW ESTATE	
COPYRIGHT ©		Issue
		D



HARNESS ROAD



BRIDLE COURT

ACCEPTED AS CONSTRUCTED

NOTE:
Road edge guide posts are in accordance with the Manual of Uniform Traffic Control Devices.

AS CONSTRUCTED
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Date: 18/03/2016
Colin Richards
Registered Surveyor

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LONGITUDINAL SECTION
Scale 'A' - Horizontal
Scale 'B' - Vertical

REFER TO DRAWING FEE0001/12 FOR ROAD TYPICAL SECTIONS.

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Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

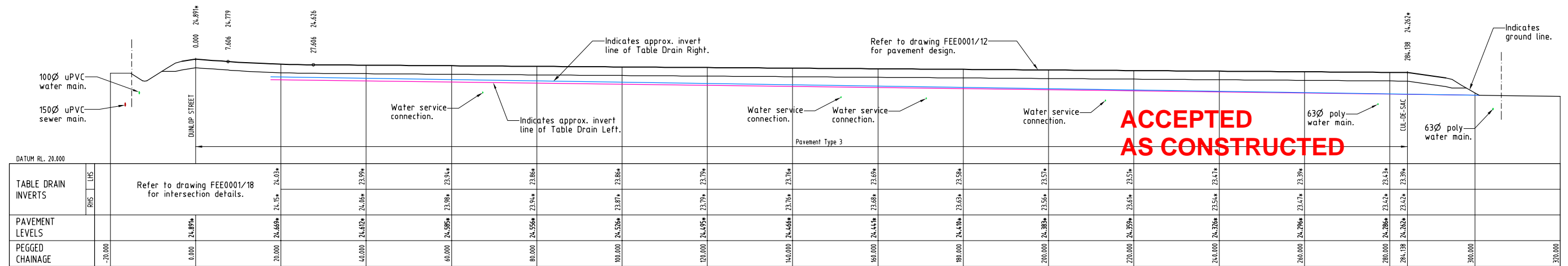
Scale 'A' 0 5 10 15 20m
Scale 'B' 0 1 2 3 4m
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Issue	Description	Date
C	AMENDED TO AS CONSTRUCTED.	11/03/2016
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn	In Association With	ROAD LONGITUDINAL SECTION
KJM	MARKWELL GROUP	
Date	52 ALLOTMENT PARK	Drawing Number
16/09/2010	RESIDENTIAL SUBDIVISION	
Checked	DUNLOP STREET, KELSO	FEE0001/10
HAB	PINNACLE VIEW ESTATE	
Approved		Issue
		C



HALTER COURT
(Regulatory Speed Zone 60 km/h)

LONGITUDINAL SECTIONS

Scale 'A' - Horizontal
Scale 'B' - Vertical

AS CONSTRUCTED

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Date: 21/03/2017

Colin Richards
Registered Surveyor

NOTE:

Road edge guide posts are in accordance with the Manual of Uniform Traffic Control Devices.

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Coordinate Grid is plane truncated MGA'94

Issue	Description	Date
B	AMENDED TO AS CONSTRUCTED.	20/03/2017
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	ROAD LONGITUDINAL SECTIONS
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Approved	PINNACLE VIEW ESTATE	Drawing Number FEE0001/11
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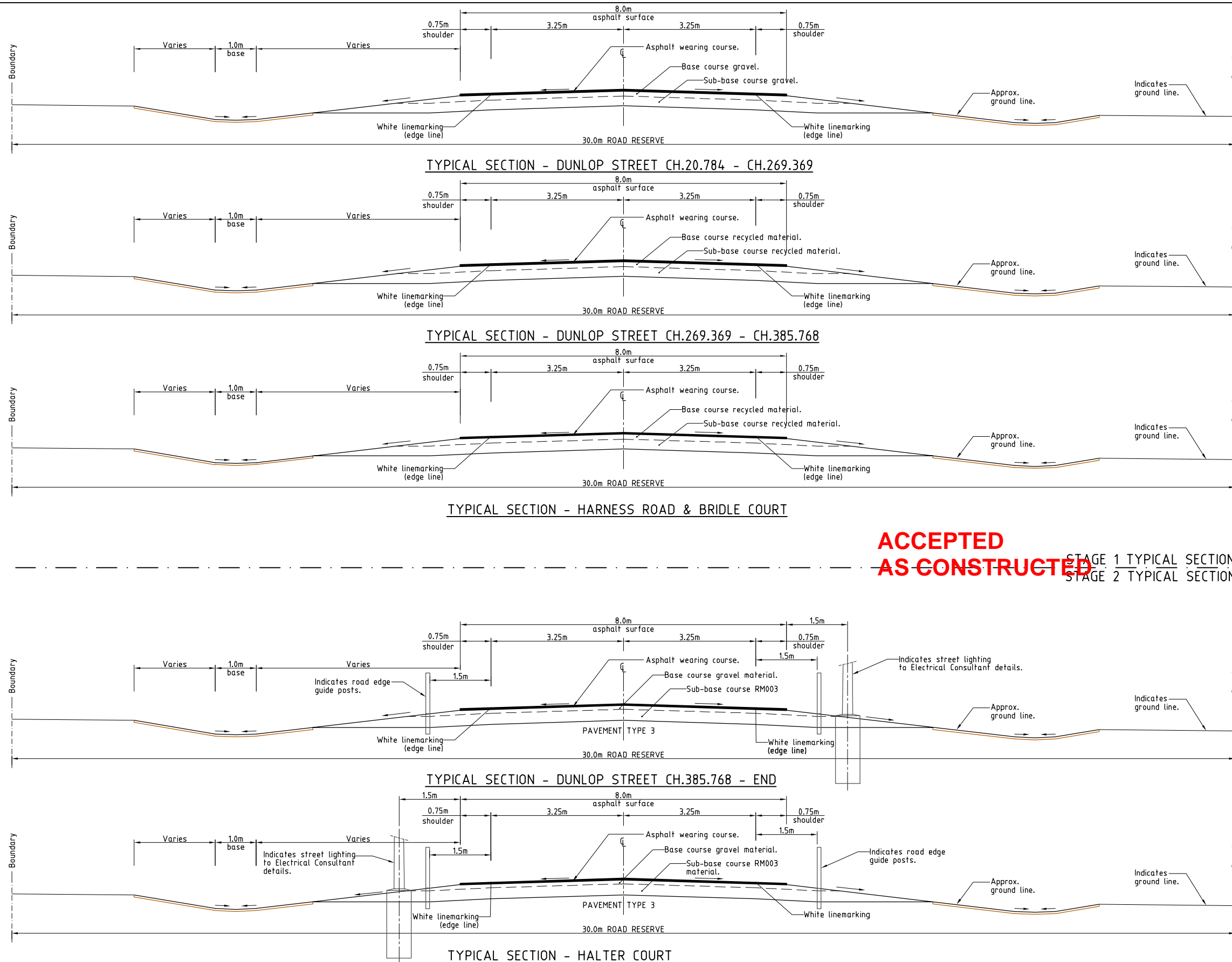
REAL PROPERTY DESCRIPTION

Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

Scale 'A' 0 5 10 15 20m
Scale 'B' 0 1 2 3 4m
LEVEL DATUM A.H.D.
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Oldenburg Place
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PAVEMENT TABLE	
PAVEMENT TYPE	PAVEMENT DESCRIPTION
PAVEMENT TYPE 1	30mm DG10 asphaltic concrete AMC00 prime 130mm base gravel type 2.1. 240mm sub-base gravel type 2.3.
PAVEMENT TYPE 2	30mm DG10 asphaltic concrete AMC00 prime 130mm RM001 Base. 240mm RM003 Sub-base.
PAVEMENT TYPE 3	30mm DG10 asphaltic concrete AMC00 prime 100mm base gravel type 2.1 270mm RM003 Sub-base.

ACCEPTED AS CONSTRUCTED
 STAGE 1 TYPICAL SECTIONS
 STAGE 2 TYPICAL SECTIONS



REAL PROPERTY DESCRIPTION
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 County of ELPHINSTONE
 DUNLOP STREET - KELSO

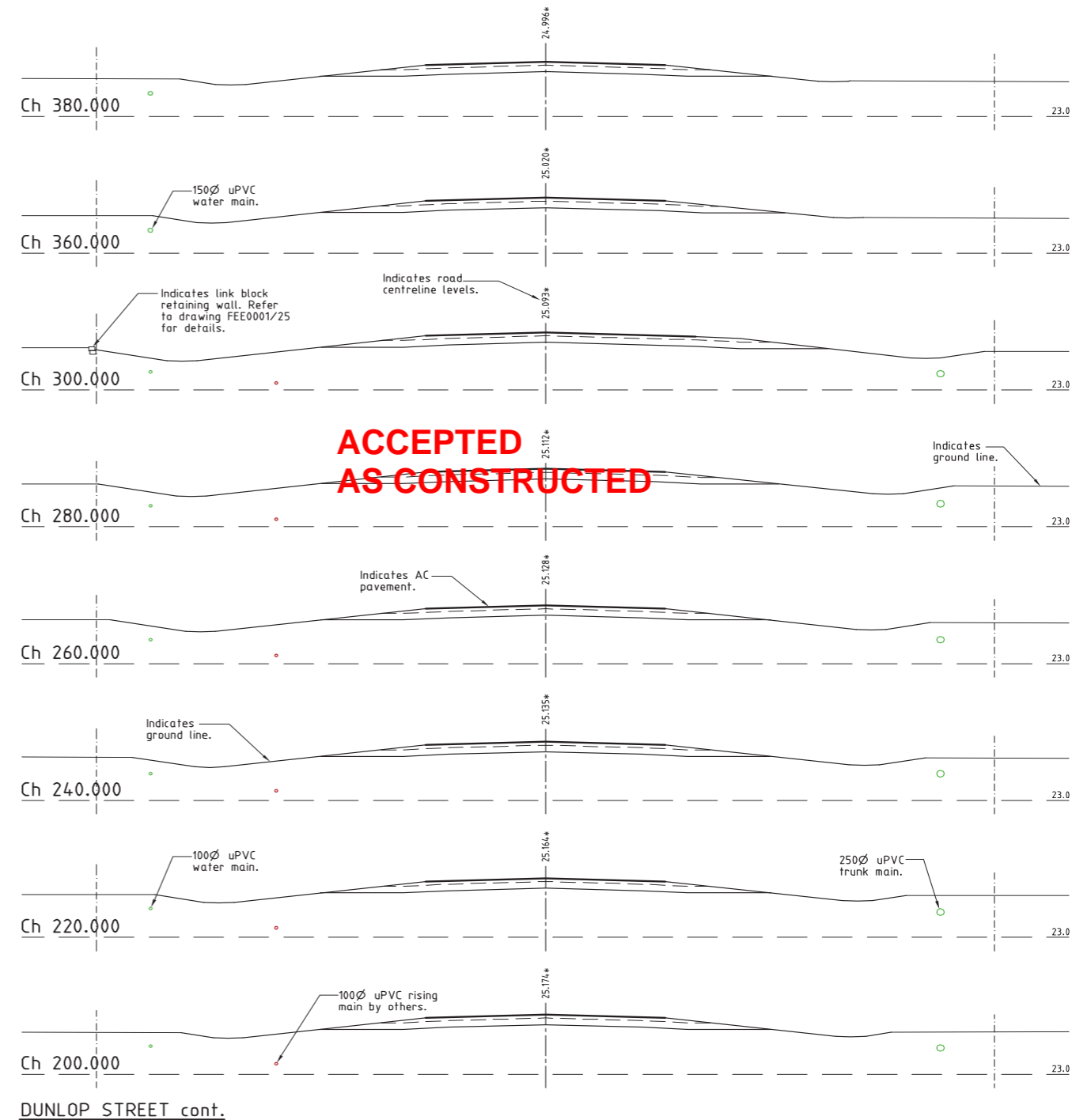
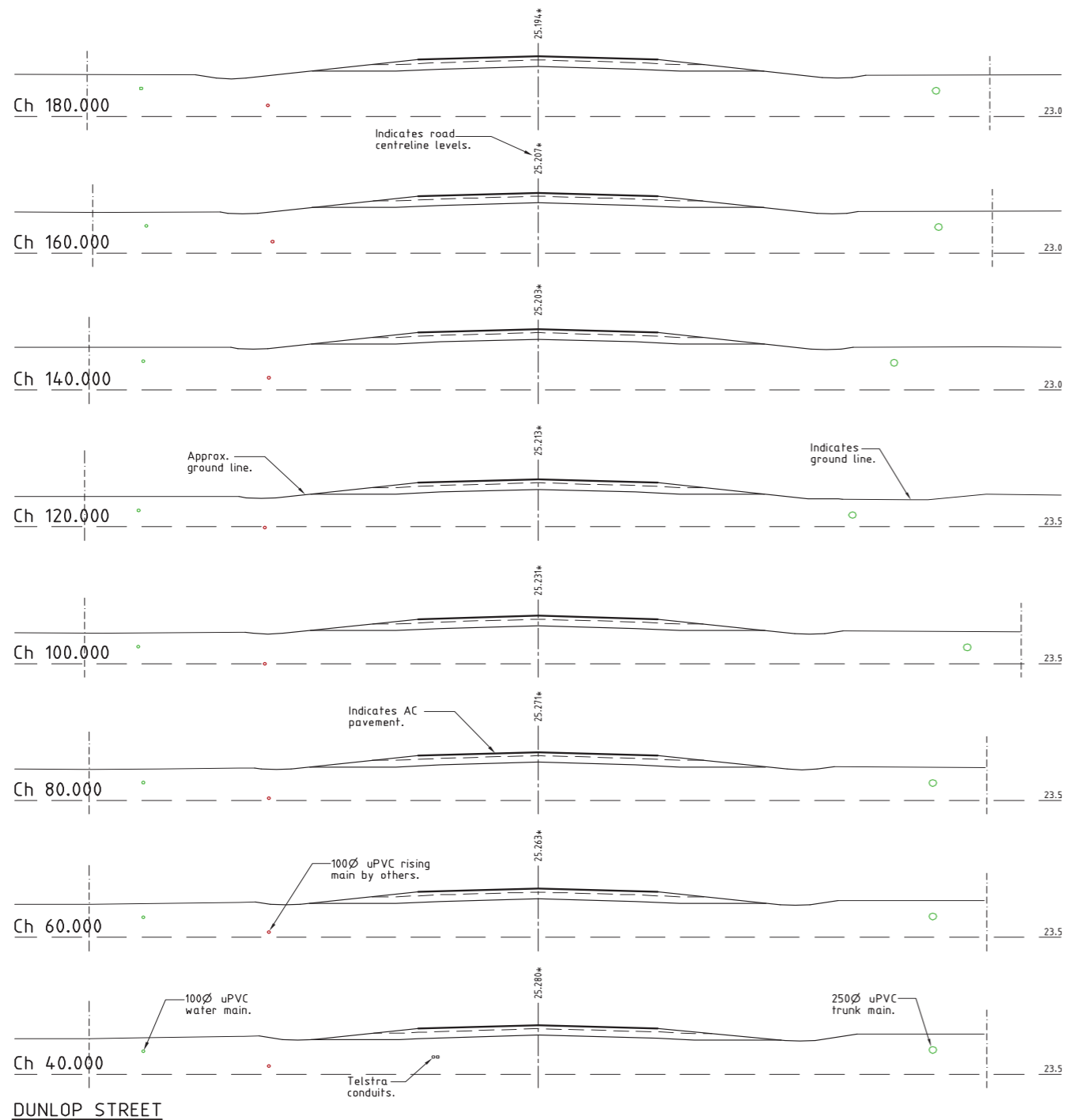
Scale
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NORTHERN CONSULTING
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Issue	Description	Date
D	PAVEMENT TYPE 3 ADDED.	01/09/2016
C	STAGE 2 TYPICAL CROSS SECTIONS ADDED.	09/06/2016
B	AMENDED TO AS CONSTRUCTED.	11/03/2016
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	ROAD TYPICAL CROSS SECTIONS
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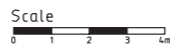
**ACCEPTED
AS CONSTRUCTED**

CROSS SECTIONS

AS CONSTRUCTED

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Date: 18/03/2016
Colin Richards
Registered Surveyor



LEVEL DATUM A.H.D.
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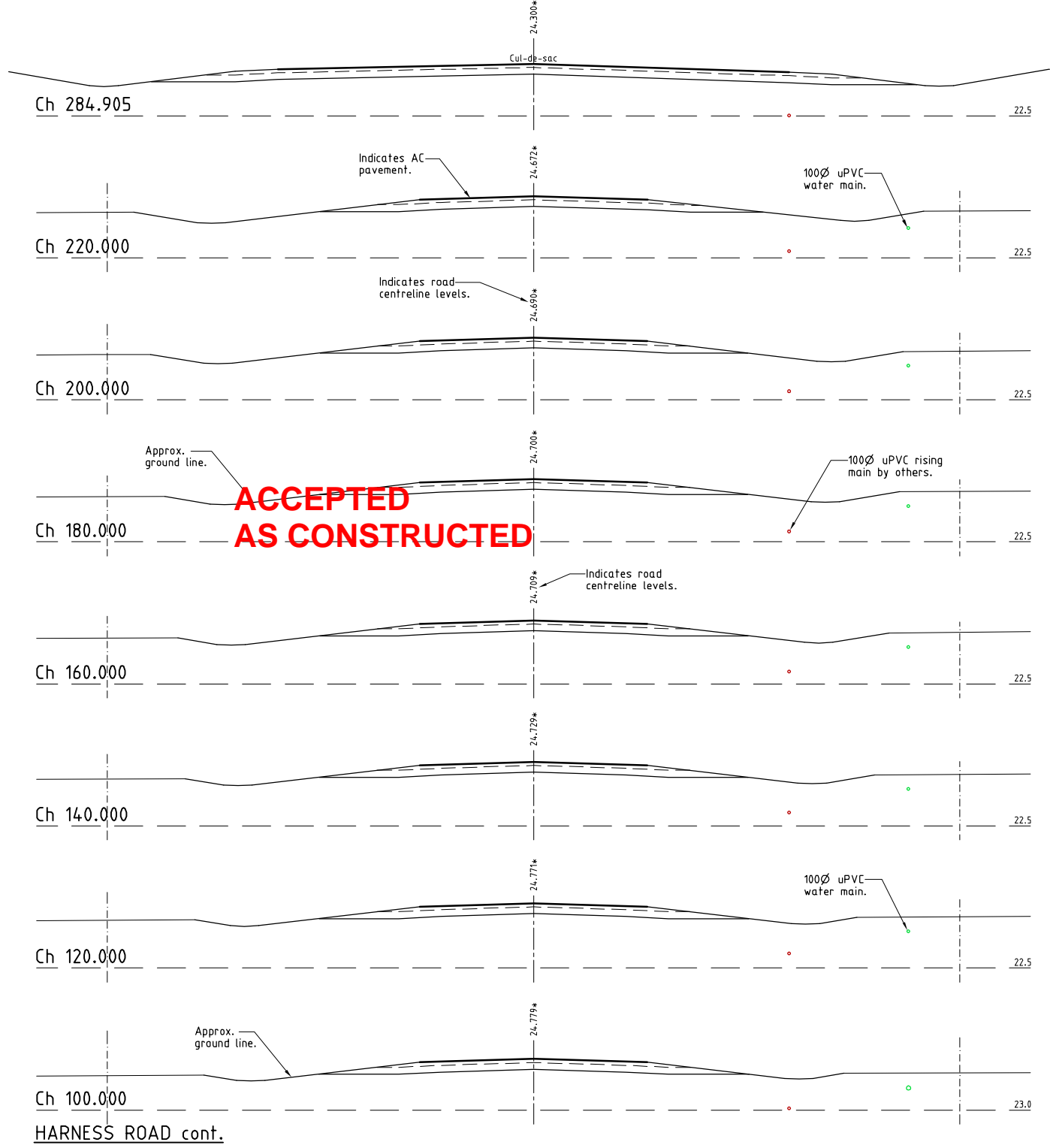
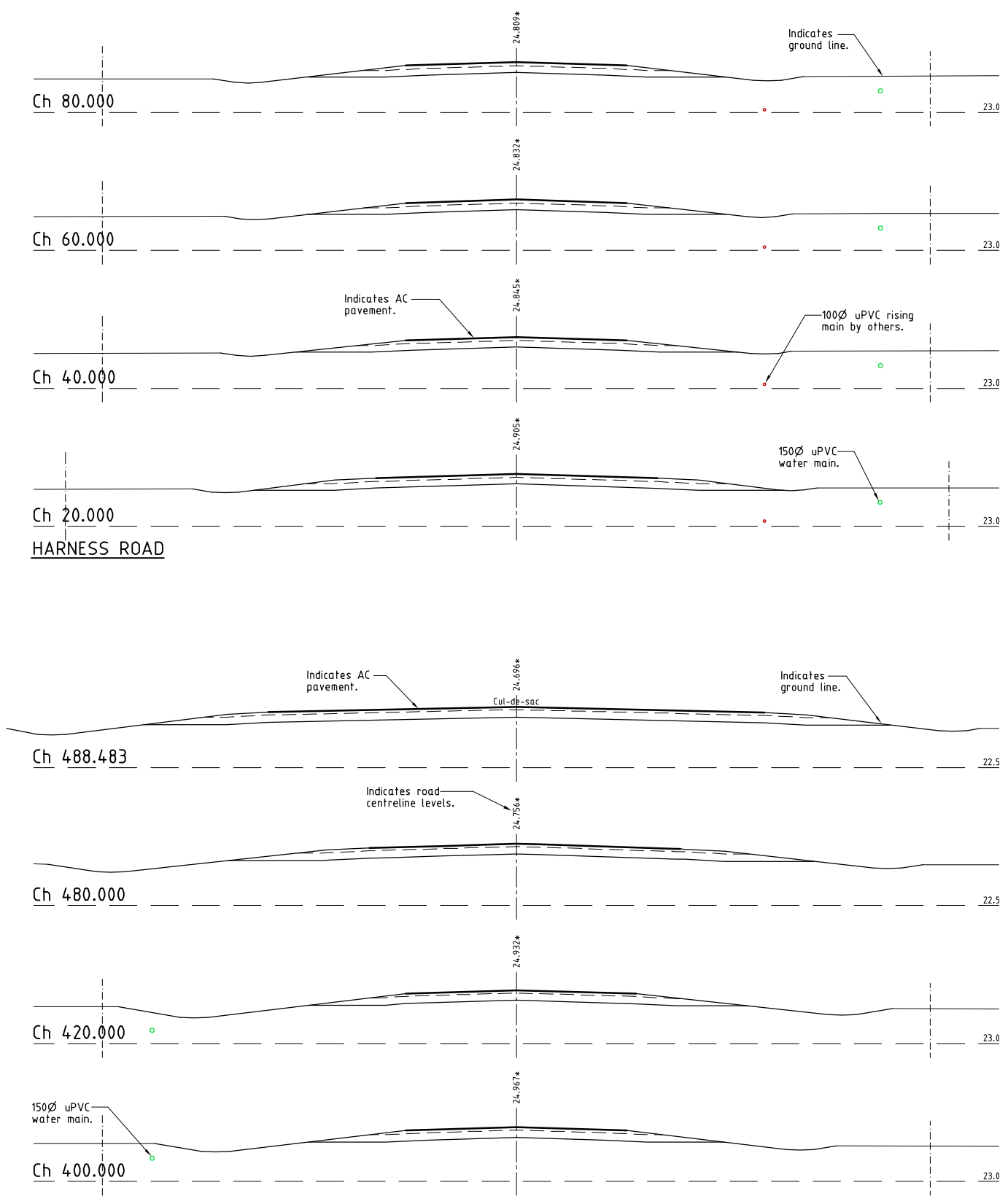
Issue	Description	Date
B	AMENDED TO AS CONSTRUCTED.	11/03/2016
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	ROAD CROSS SECTIONS
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		Issue B

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REAL PROPERTY DESCRIPTION

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Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO



CROSS SECTIONS

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ACN 100 817 356

C	AMENDED TO AS CONSTRUCTED - DUNLOP STREET STAGE 2 INCLUDED.	20/03/2017
B	AMENDED TO AS CONSTRUCTED.	11/03/2016
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010
Issue	Description	Date
Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	
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ROAD CROSS SECTIONS		
Drawing Number FEE0001/14		Issue C



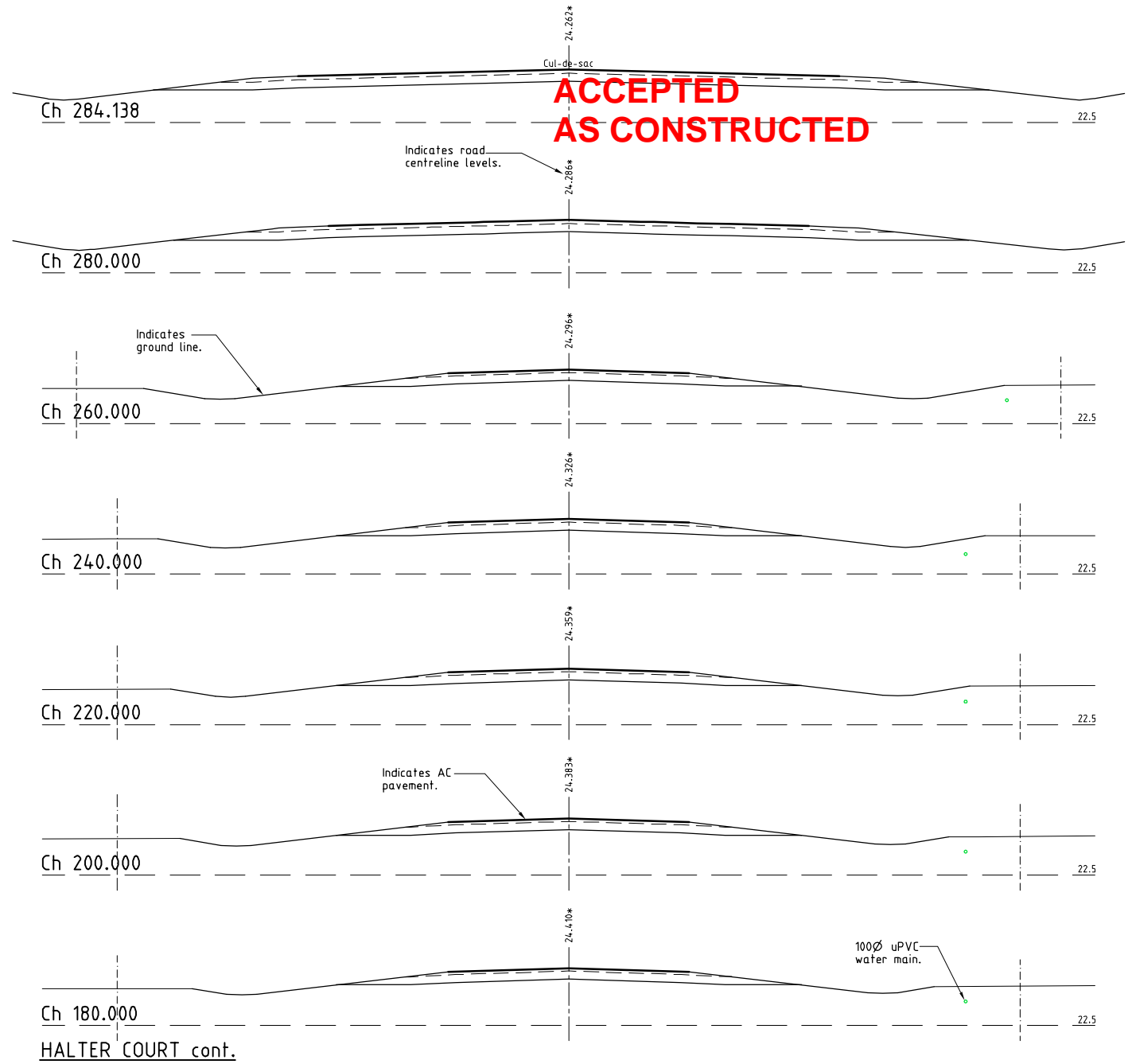
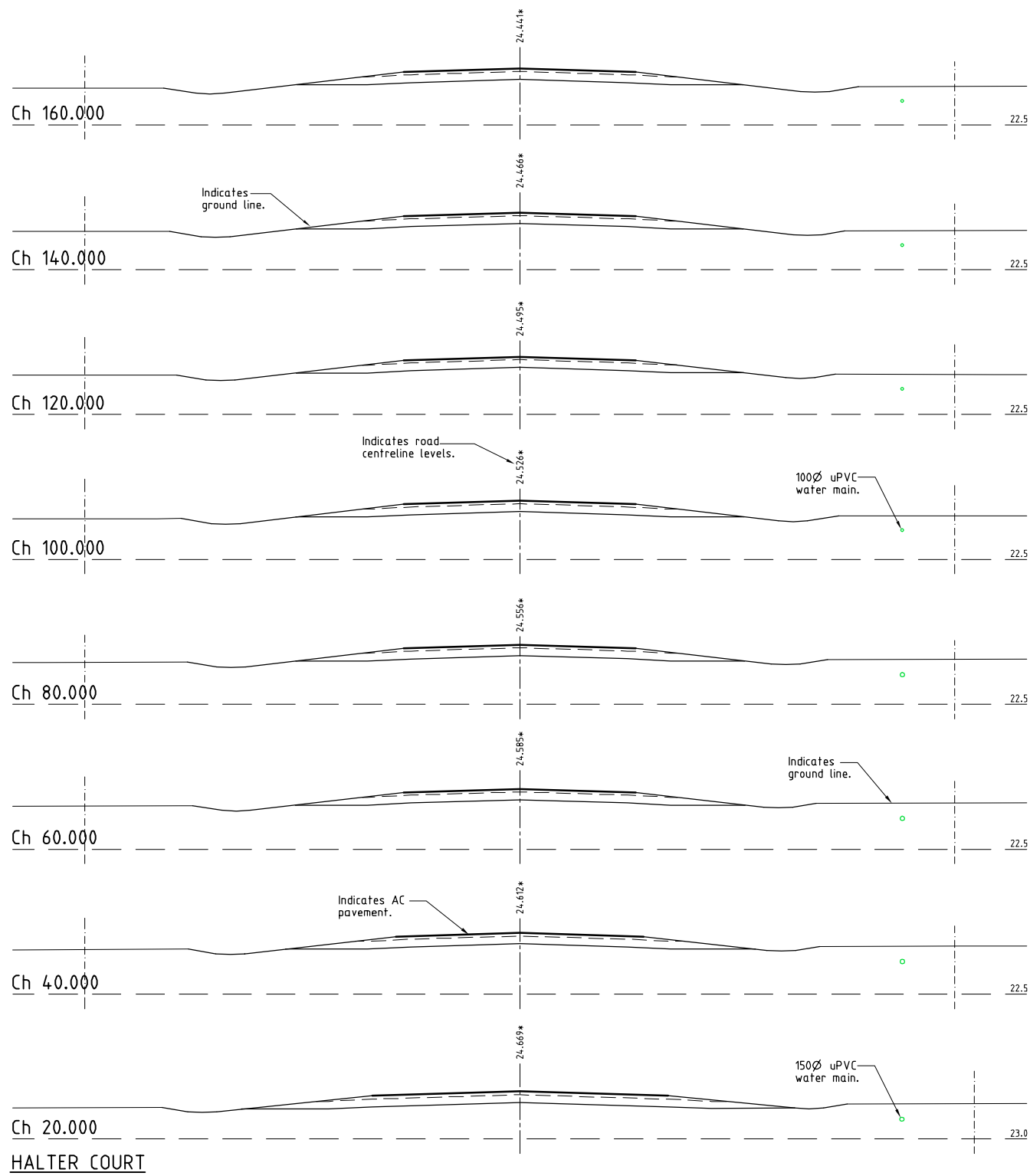
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DUNLOP STREET - KELSO

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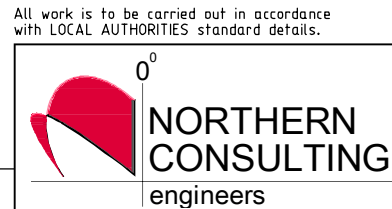
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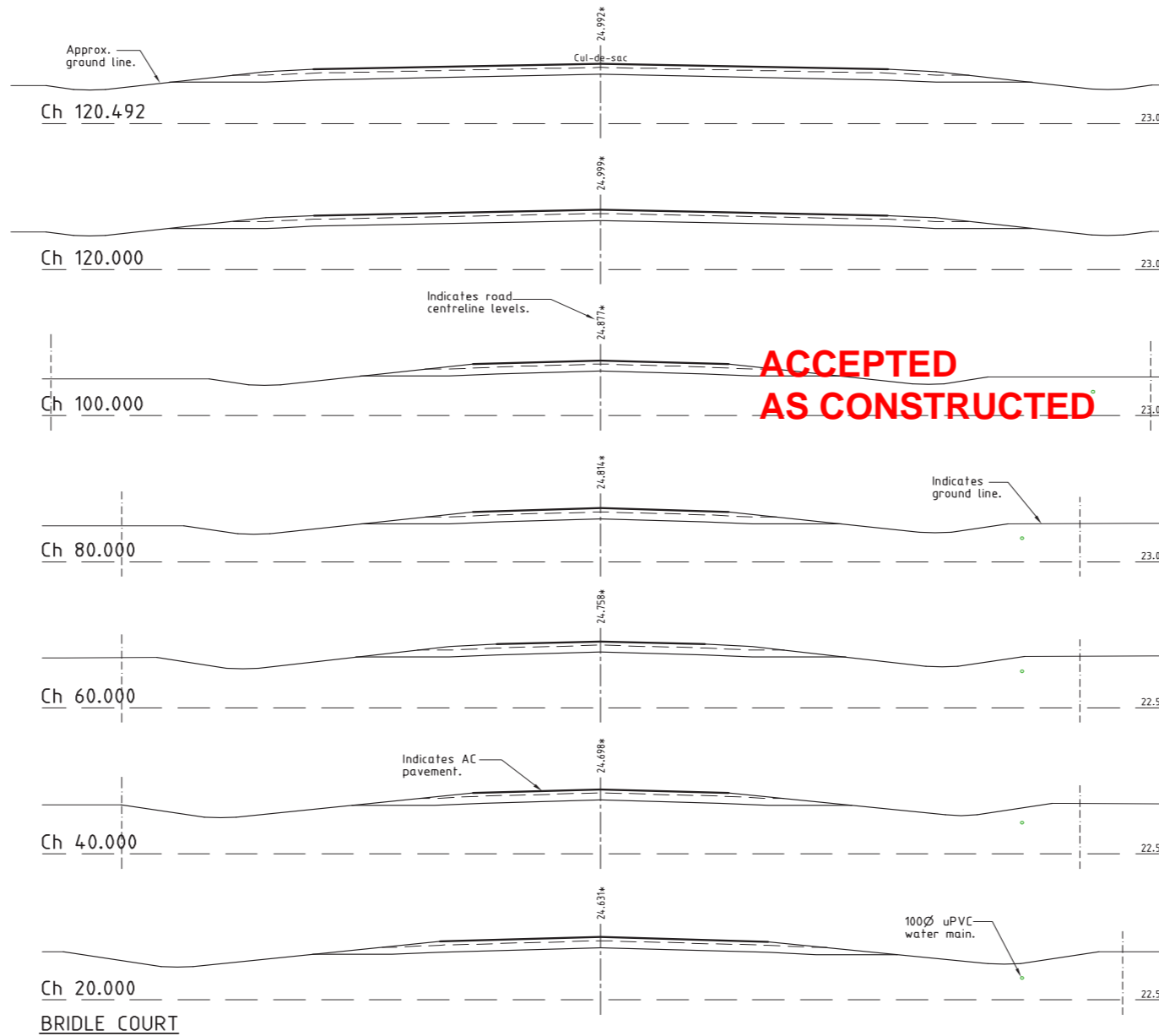
CROSS SECTIONS



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B A P1	AMENDED TO AS CONSTRUCTED. ISSUED FOR CONSTRUCTION. PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	20/03/2017 09/05/2011 16/09/2010
Issue	Description	Date
Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	ROAD CROSS SECTIONS
Checked	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO	Drawing Number FEE0001/15
Approved	PINNACLE VIEW ESTATE	Issue B
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BRIDLE COURT

CROSS SECTIONS

AS CONSTRUCTED

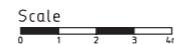
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Oldenburg Place

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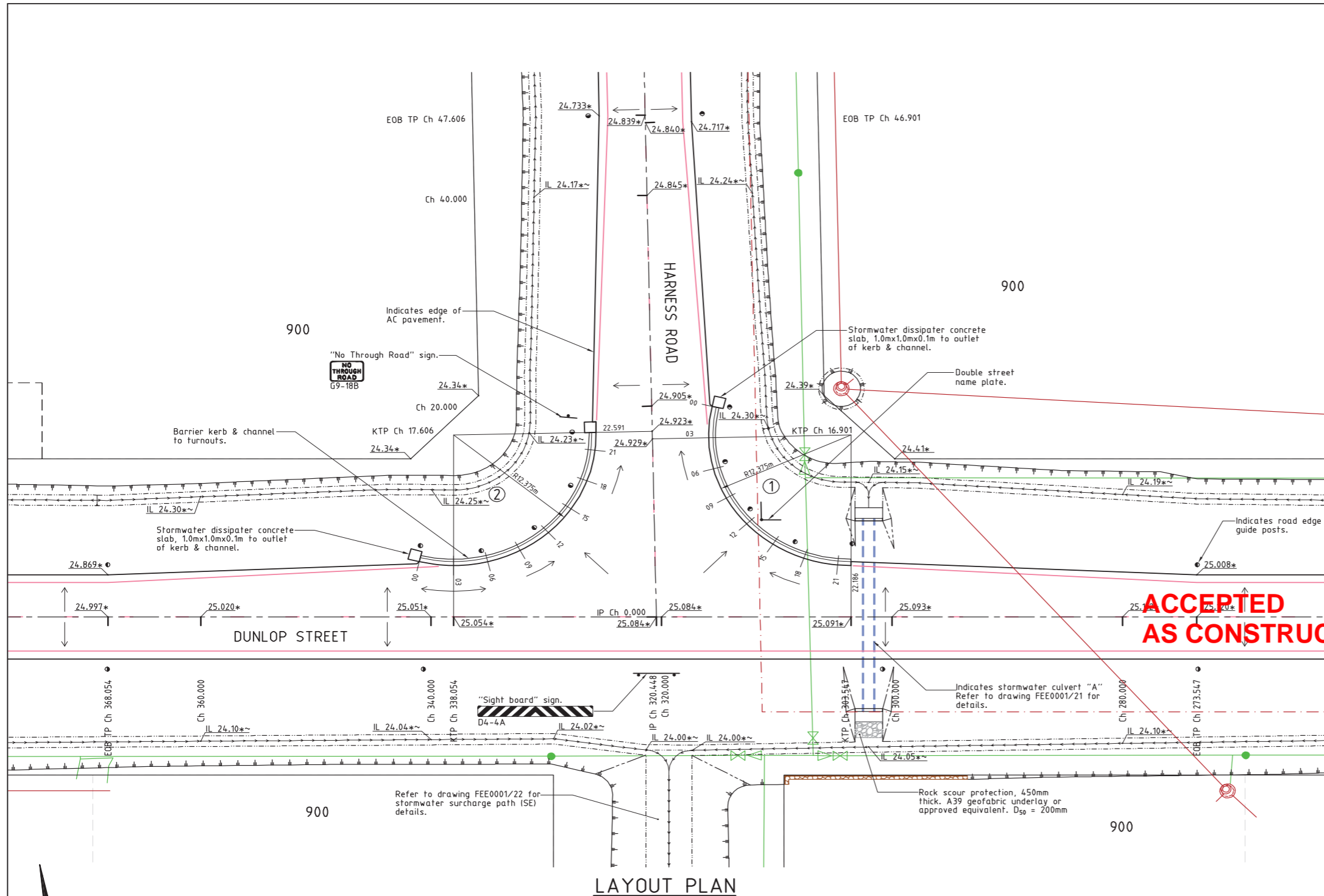
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Coordinate Grid is plane truncated MGA'94



Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.

B A P1	AMENDED TO AS CONSTRUCTED. ISSUED FOR CONSTRUCTION. PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	11/03/2016 09/05/2011 16/09/2010
Issue	Description	Date
Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	ROAD CROSS SECTIONS
Checked HAB Approved	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
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LEGEND

- 10.00* - As constructed surface level.
- 10.000* - As constructed table drain invert level.
- Top of batter.
- Toe of batter.
- Invert of creek/drain.
- Linemarking.
- Stormwater drain line.
- Sewer main.
- Sewer manhole.
- Sewer rising main by others.
- Water main.

No.	TURNOUT 1	TURNOUT 2
CHGE.	KERB LIP LEVEL	KERB LIP LEVEL
00	24.703*	24.881*
03	24.734*	24.913*
06	24.765*	24.892*
09	24.810*	24.871*
12	24.865*	24.830*
15	24.901*	24.805*
18	24.928*	24.781*
21	24.957*	24.767*
22.186	24.947*	
22.591		24.739*

ACCEPTED AS CONSTRUCTED

LAYOUT PLAN

AS CONSTRUCTED

CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

Date: 18/03/2016
Colin Richards
Registered Surveyor

*~ - Denotes levels to be confirmed once final trimming can be completed.

REAL PROPERTY DESCRIPTION

Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

Scale



LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

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All work is to be carried out in accordance with LOCAL AUTHORITIES standard details.

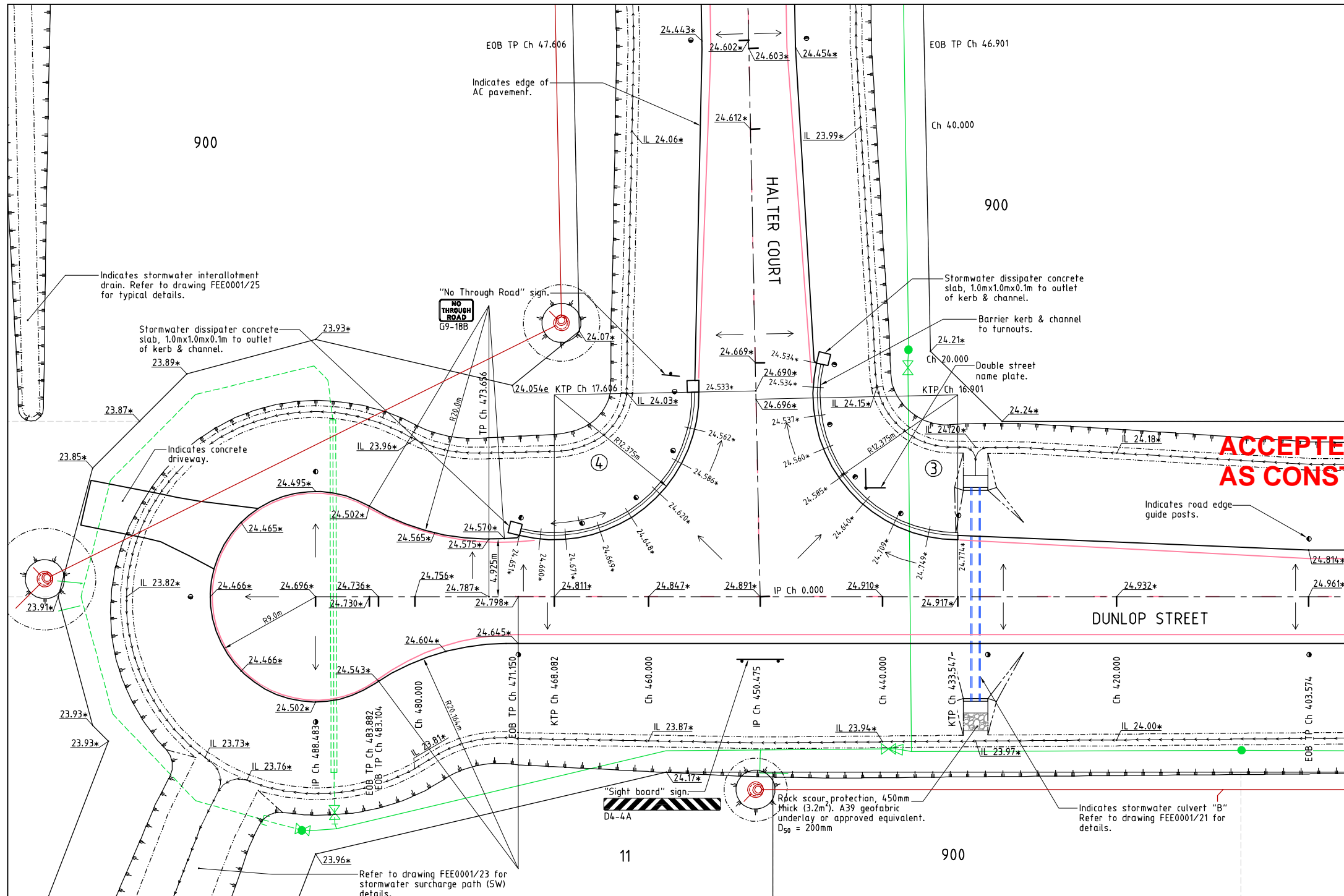
Coordinate Grid is plane truncated MGA'94



Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.

Issue	Description	Date
D	AMENDED TO AS CONSTRUCTED.	11/03/2016
C	AMENDED TO COUNCIL REQUIREMENTS.	05/03/2014
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	INTERSECTION PLAN
Checked HAB Approved	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
COPYRIGHT ©		Drawing Number FEE0001/17
		Issue D



LEGEND

10.000*	- As constructed surface level.
IL 10.00*	- As constructed table drain invert level.
(Symbol: Top of batter)	- Top of batter.
(Symbol: Toe of batter)	- Toe of batter.
(Symbol: Invert of creek/drain)	- Invert of creek/drain.
(Symbol: Linemarking)	- Linemarking.
(Symbol: Stormwater drain line)	- Stormwater drain line.
(Symbol: Sewer main)	- Sewer main.
(Symbol: Sewer manhole)	- Sewer manhole.
(Symbol: Water main)	- Water main.
(Symbol: Poly water main)	- Poly water main.

**ACCEPTED
AS CONSTRUCTED**

LAYOUT PLAN

AS CONSTRUCTED
 CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.
 Date: 21/03/2017
 Colin Richards
 Registered Surveyor



REAL PROPERTY DESCRIPTION
 Lot 2 on SP208523
 Parish of ROSS
 County of ELPHINSTONE
 DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
 Refer PM114246 RL. 24.668
 Oldenburg Place

Scale
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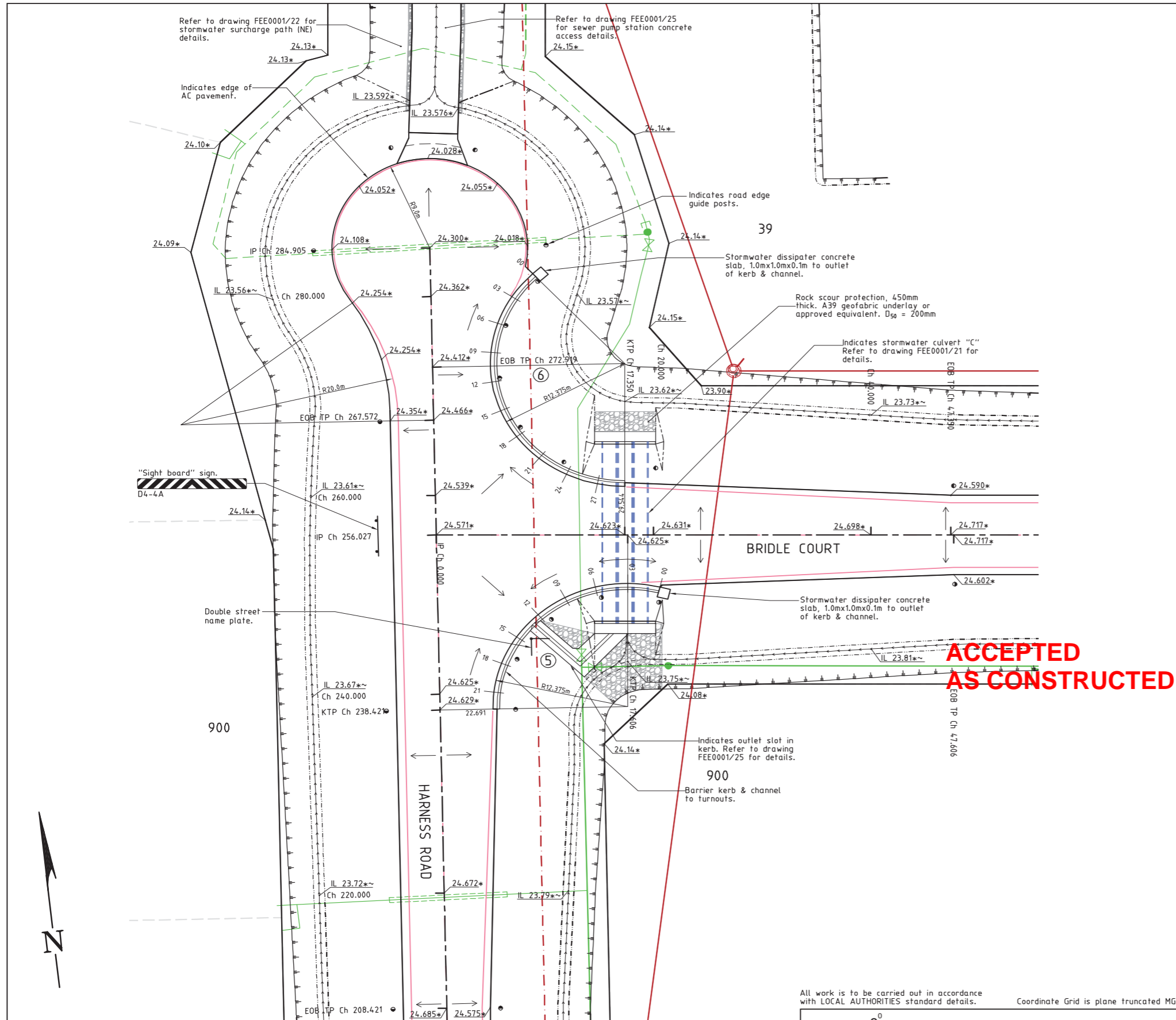
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All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA '94

NORTHERN CONSULTING engineers

Civil & Structural Engineers
 50 Punari Street, Currajong 4812
 Phone: [07] 4725 5550 Fax: [07] 4725 5850
 Email: mail@nceng.com.au
 Milton Messer & Associates Pty. Ltd.
 ACN 100 817 356

C	AMENDED TO AS CONSTRUCTED.	20/03/2017
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010
Issue	Description	Date
Drawn KJM	In Association With MARKWELL GROUP	
Date 16/09/2010	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
Checked		
Approved		
COPYRIGHT ©		
	Drawing Number FEE0001/18	Issue C



LEGEND

- 10.000* - As constructed surface level.
- IL 10.000* - As constructed table drain invert level.
- - Top of batter.
- - - - - Toe of batter.
- - - - - Invert of creek/drain.
- - Linemarking.
- - Stormwater drain line.
- - Sewer main.
- - Sewer manhole.
- - Sewer rising main by others.
- - Water main.
- - Poly water main.

No.	TURNOUT 5	TURNOUT 6
CHGE.	KERB LIP LEVEL	KERB LIP LEVEL
00	24.504*	24.050*
03	24.498*	24.107*
06	24.460*	24.177*
09	24.373*	24.223*
12	24.341*	24.250*
15	24.352*	24.274*
18	24.391*	24.322*
21	24.429*	24.376*
22.691	24.462*	
24		24.430*
27		24.466*
29.544		24.485*

ACCEPTED AS CONSTRUCTED

AS CONSTRUCTED
 CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

Date: 18/03/2016
 Colin Richards
 Registered Surveyor

~ - Denotes levels to be confirmed once final trimming can be completed.

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94



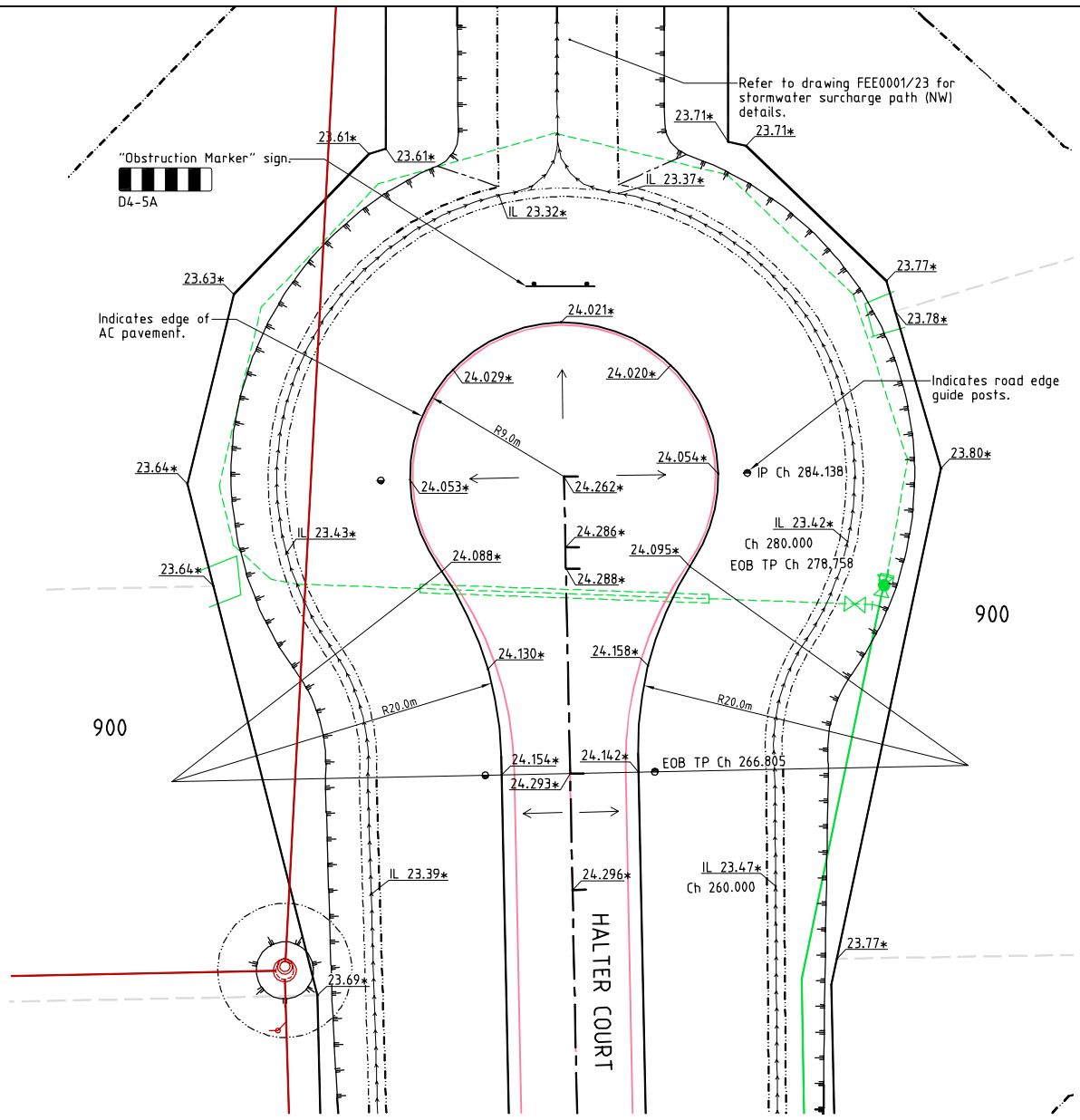
Civil & Structural Engineers
 50 Punari Street, Currajong 4812
 Phone: [07] 4725 5550 Fax: [07] 4725 5850
 Email: mail@nceng.com.au
 Milton Messer & Associates Pty. Ltd.

Issue	Description	Date
C	AMENDED TO AS CONSTRUCTED.	11/03/2016
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010 Checked HAB Approved	In Association With MARKWELL GROUP 52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	INTERSECTION & CUL-DE-SAC PLAN Drawing Number FEE0001/19	Issue C
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REAL PROPERTY DESCRIPTION
 Lot 2 on SP208523
 Parish of ROSS
 County of ELPHINSTONE
 DUNLOP STREET - KELSO

Scale
 0 2 4 6 8m
 LEVEL DATUM A.H.D.
 Refer PM114246 RL. 24.668
 Oldenburg Place
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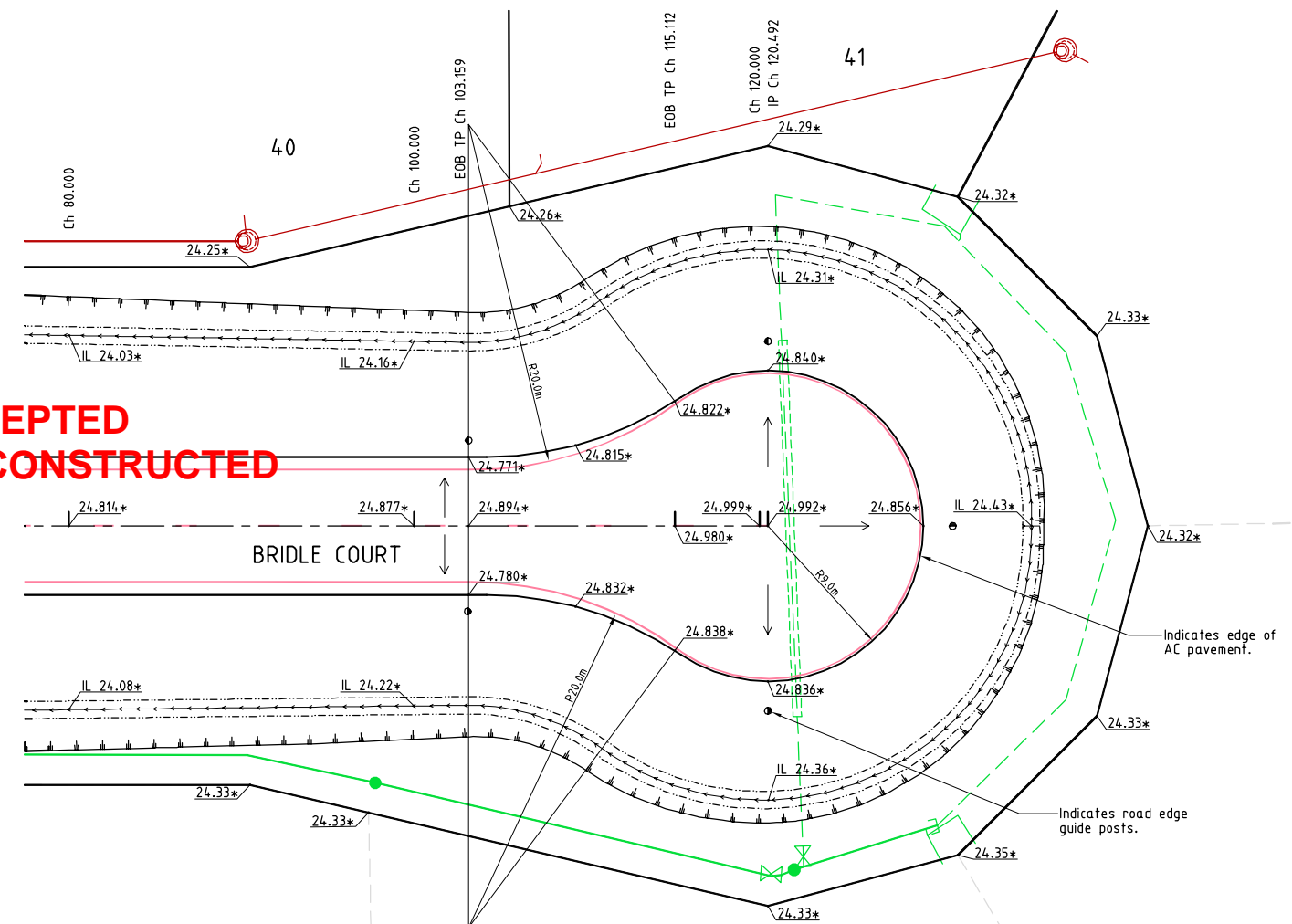


CUL-DE-SAC PLAN

LEGEND

- 10.000* - As constructed surface level.
- IL 10.00* - As constructed table drain invert level.
- Top of batter.
- Toe of batter.
- Invert of creek/drain.
- Linemarking.
- Sewer main.
- Sewer manhole.
- Water main.
- Poly water main.

**ACCEPTED
AS CONSTRUCTED**



CUL-DE-SAC PLAN

AS CONSTRUCTED

CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

Colin Richards
Registered Surveyor
Date: 21/03/2017



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Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.
ACN 100 817 356

Issue	Description	Date
E	AMENDED TO AS CONSTRUCTED - HALTER COURT INCLUDED.	20/03/2017
D	AMENDED TO AS CONSTRUCTED - LOT 41 INCLUDED.	15/03/2016
C	AMENDED TO AS CONSTRUCTED.	11/03/2016
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

REAL PROPERTY DESCRIPTION

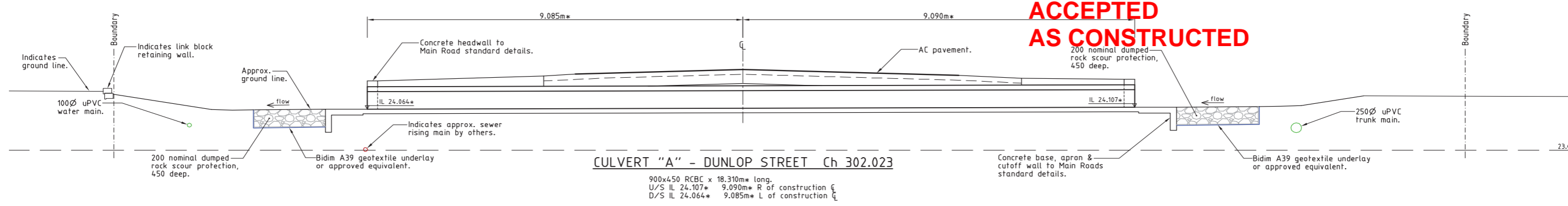
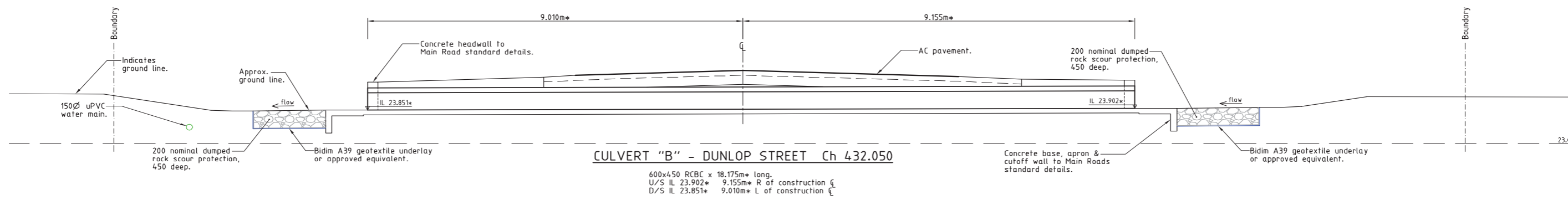
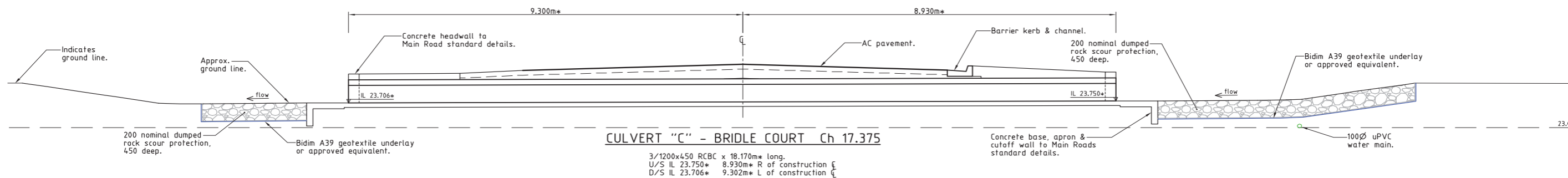
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

Scale
0 2 4 6 8m

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Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	CUL-DE-SAC PLAN	Drawing Number FEE0001/20	Issue E
Checked HAB Approved	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE			



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AS CONSTRUCTED**

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Date: 18/03/2016
 Colin Richards
 Registered Surveyor

REAL PROPERTY DESCRIPTION
 Lot 2 on SP208523
 Parish of ROSS
 County of ELPHINSTONE
 DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
 Refer PM114246 RL. 24.668
 Oldenburg Place

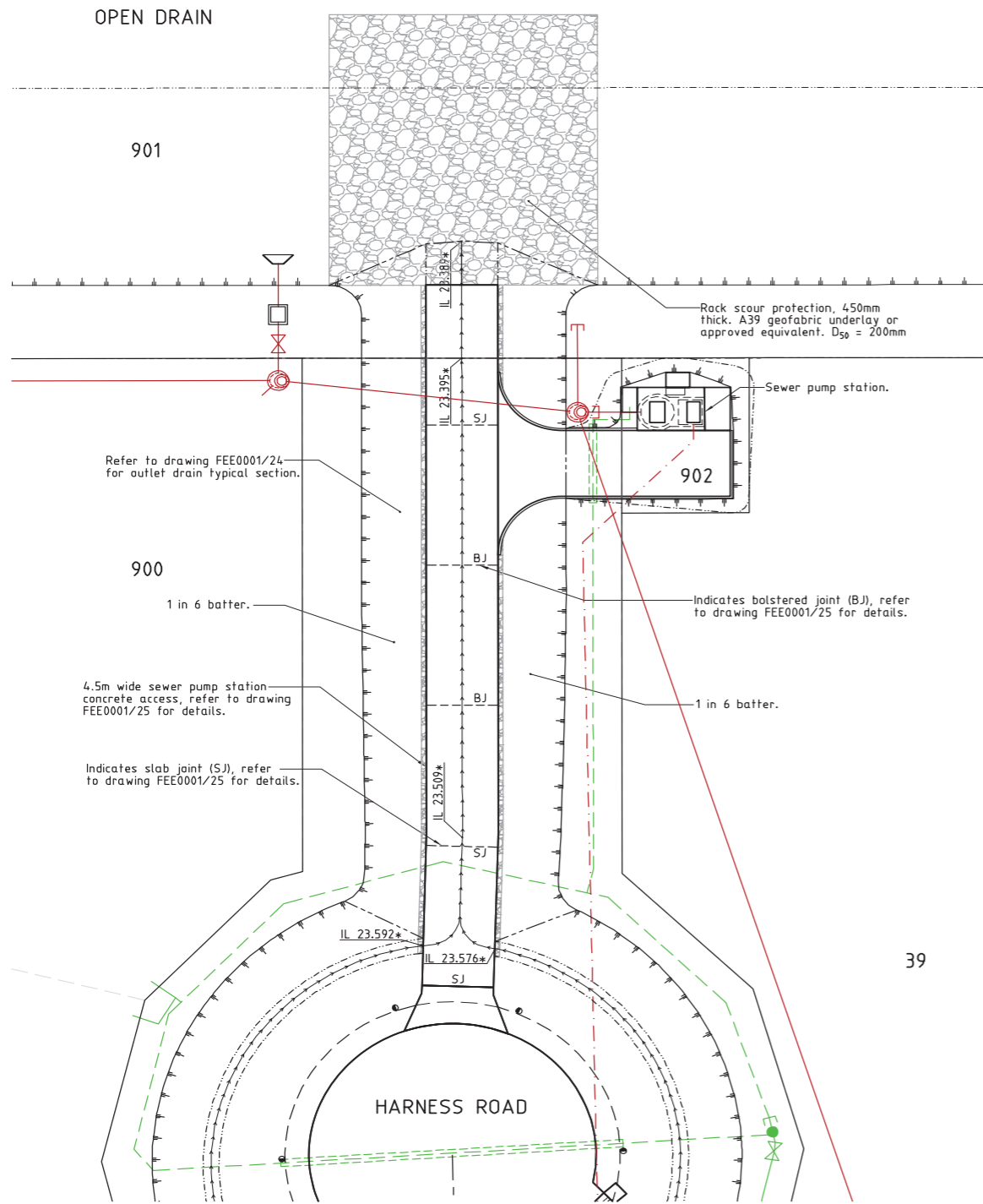
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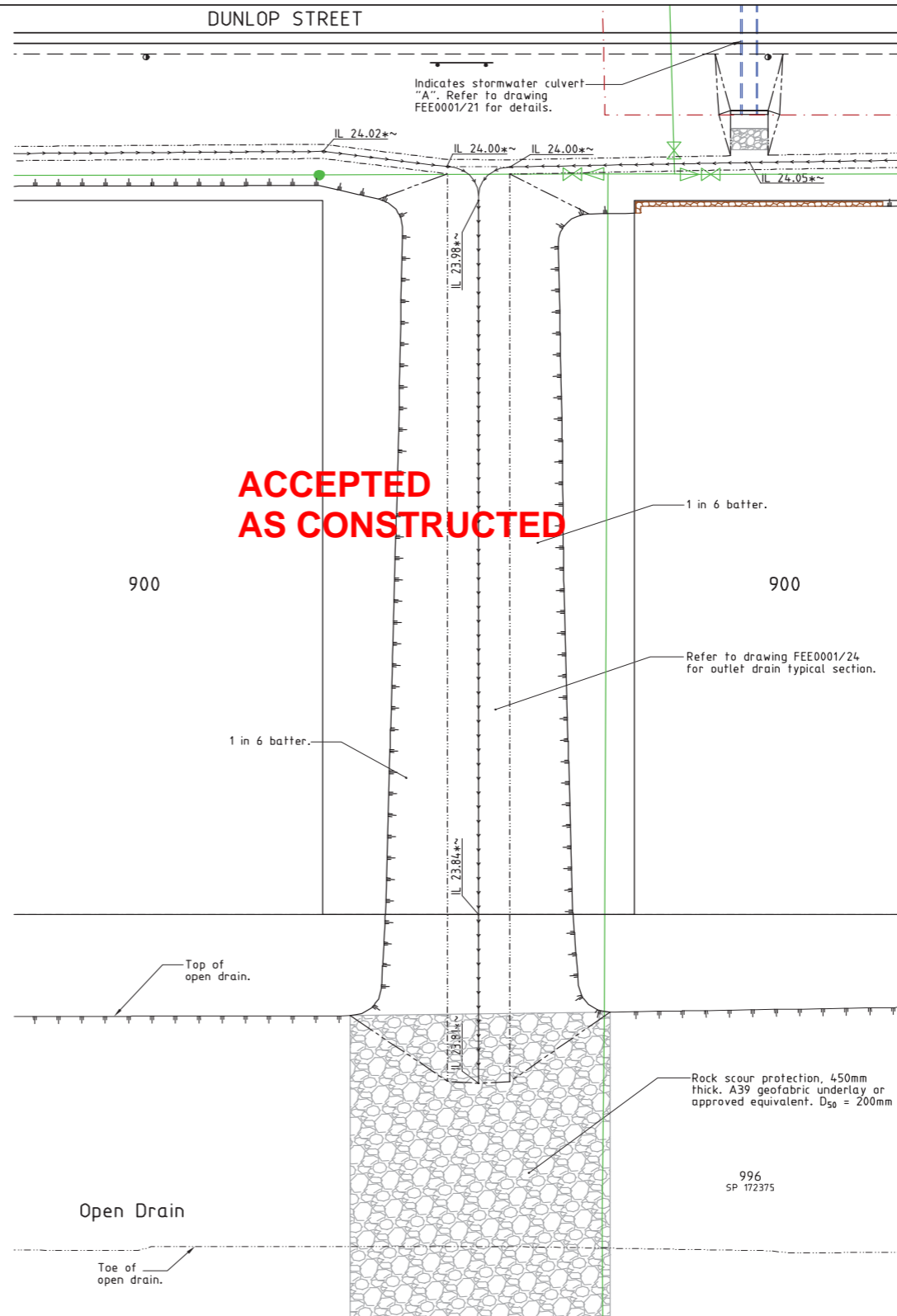
NORTHERN CONSULTING
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 Civil & Structural Engineers
 50 Punari Street, Currajong 4812
 Phone: [07] 4725 5550 Fax: [07] 4725 5850
 Email: mail@nceng.com.au
 Milton Messer & Associates Pty. Ltd.

Issue	Description	Date
B	AMENDED TO AS CONSTRUCTED.	11/03/2016
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn	DC	In Association With	MARKWELL GROUP	STORMWATER CULVERT SECTIONS
Date	16/09/2010			
Checked	HAB	52 ALLOTMENT PARK	RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	Drawing Number FEE0001/21
Approved				
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PART LAYOUT PLAN
STORMWATER SURCHARGE PATH (NE)



PART LAYOUT PLAN
STORMWATER SURCHARGE PATH (SE)

LEGEND

IL 10.000*	- As constructed drain invert level.
---▲---	- Top of batter.
---▲---	- Toe of batter.
---	- Invert of creek/drain.
---	- Stormwater drain line.
---	- Q50 water surface level.
---	- Sewer rising main by others.
---	- Water main.
---	- Poly water main.

**ACCEPTED
AS CONSTRUCTED**

AS CONSTRUCTED
CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

Date: 18/03/2016
Celin Richards
Registered Surveyor

*~ - Denotes levels to be confirmed once final trimming can be completed.

REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

Scale
0 2 4 6 8m

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

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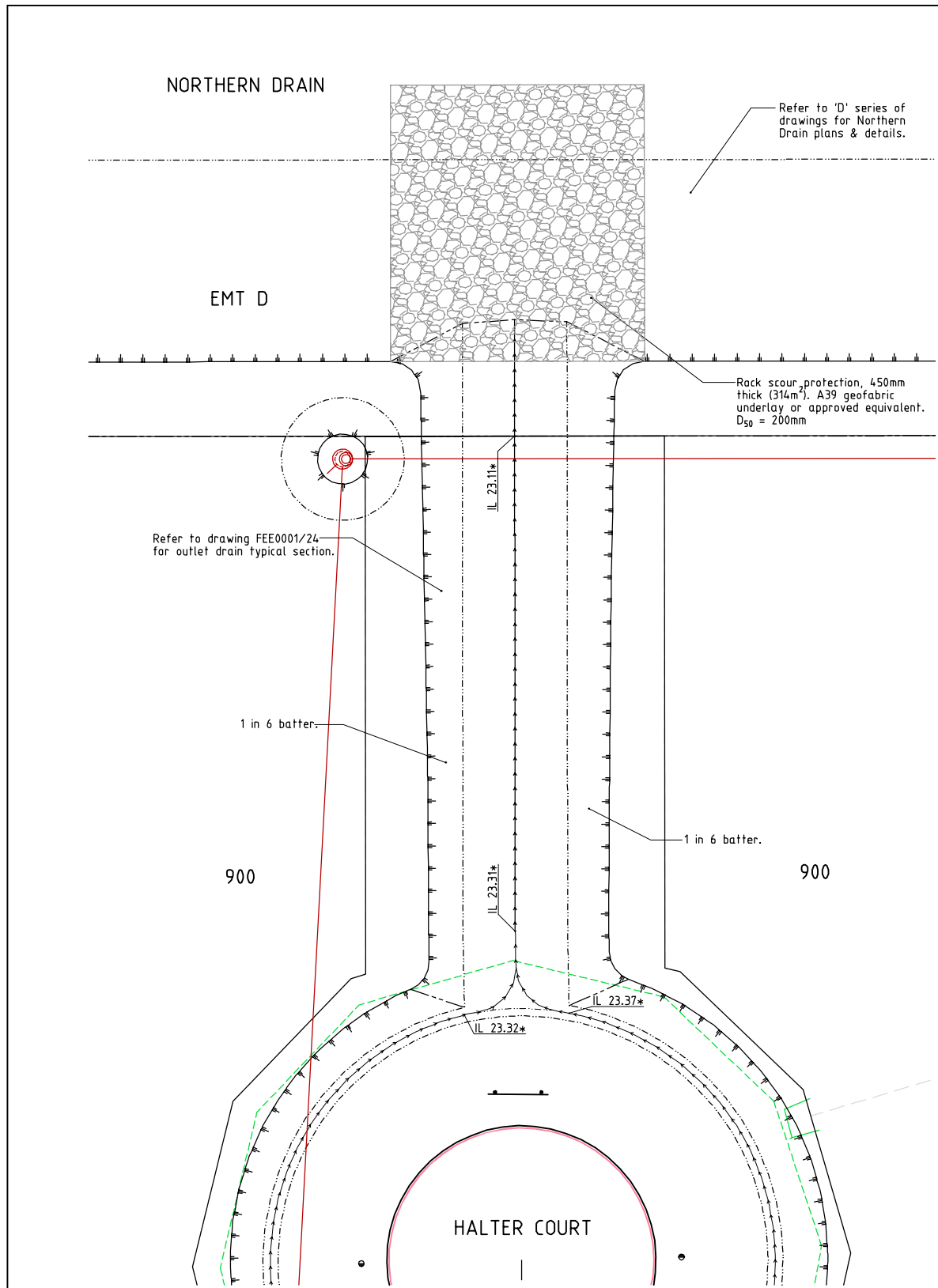
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Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
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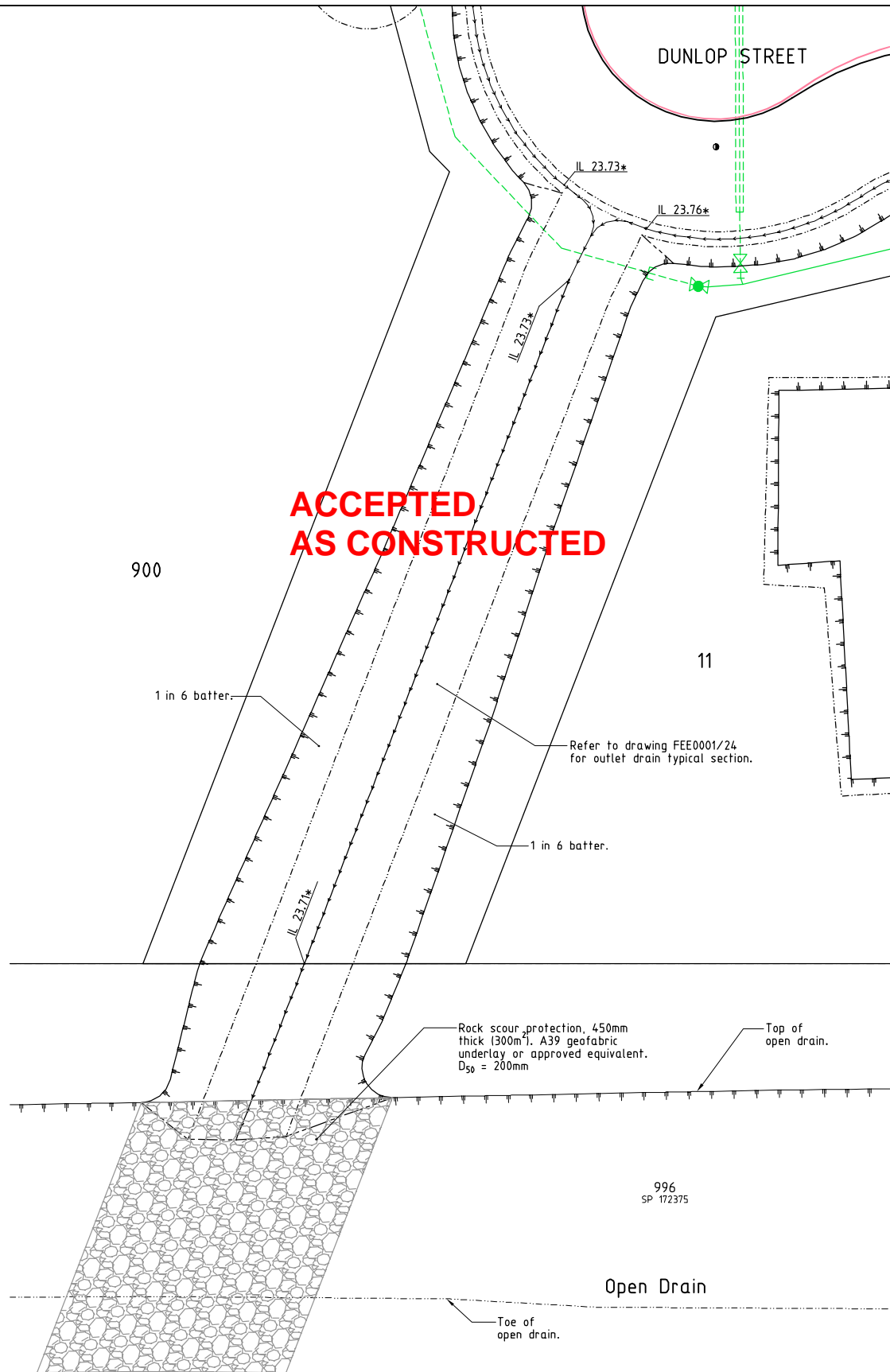
Issue	Description	Date
D	AMENDED TO AS CONSTRUCTED.	11/03/2016
C	AMENDED TO COUNCIL REQUIREMENTS.	05/03/2014
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	STORMWATER OUTLET LAYOUT PLANS
Checked HAB Approved	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
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		Issue D





PART LAYOUT PLAN
STORMWATER SURCHARGE PATH (NW)



PART LAYOUT PLAN
STORMWATER SURCHARGE PATH (SW)

LEGEND

IL 10.00*	- As constructed drain invert level.
Top of batter.	- Top of batter.
Toe of batter.	- Toe of batter.
Invert of creek/drain.	- Invert of creek/drain.
Linemarking.	- Linemarking.
Sewer main.	- Sewer main.
Sewer manhole.	- Sewer manhole.
Water main.	- Water main.
Poly water main.	- Poly water main.

**ACCEPTED
AS CONSTRUCTED**

AS CONSTRUCTED
CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.
Date: 21/03/2017
Colin Richards
Registered Surveyor



REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

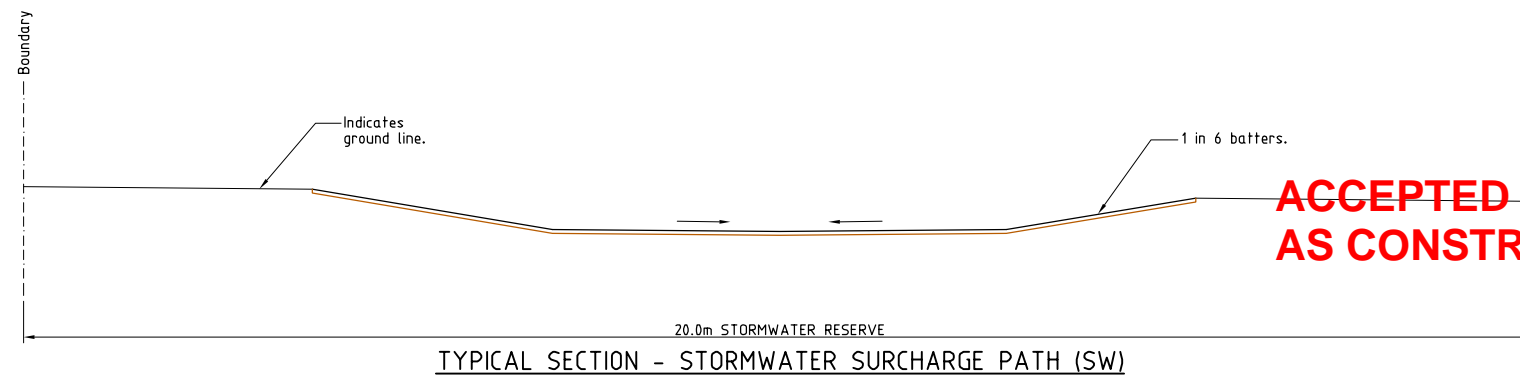
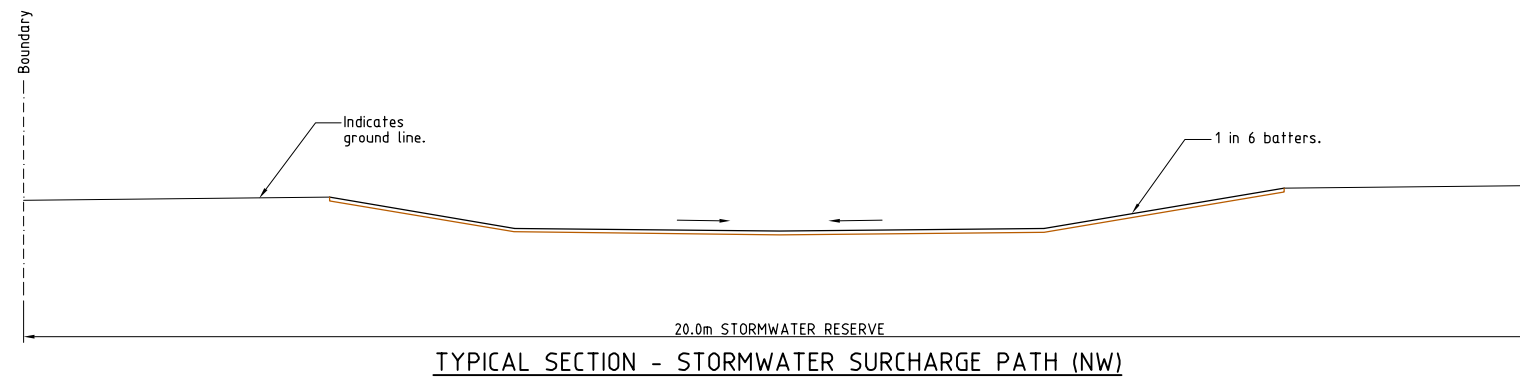
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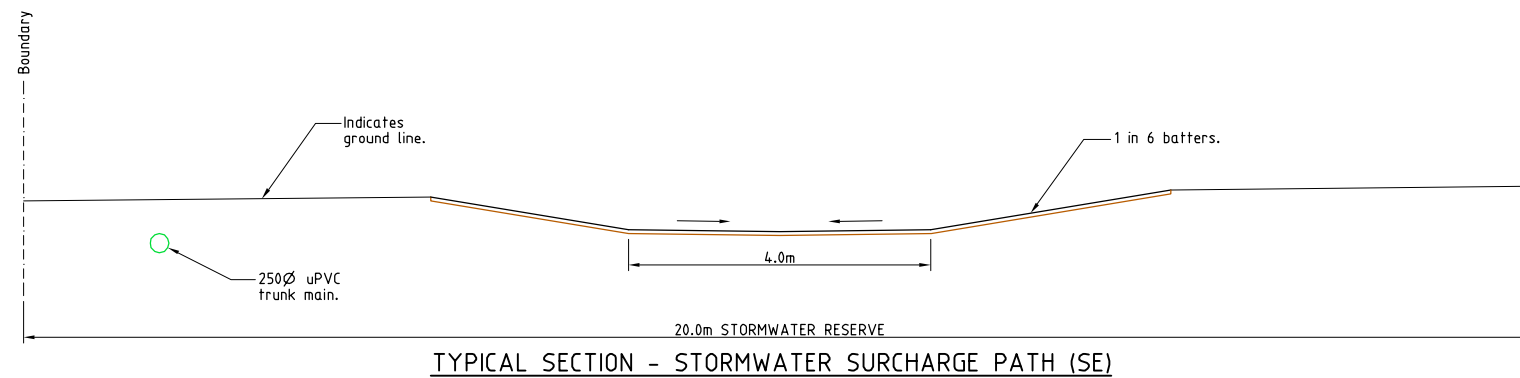
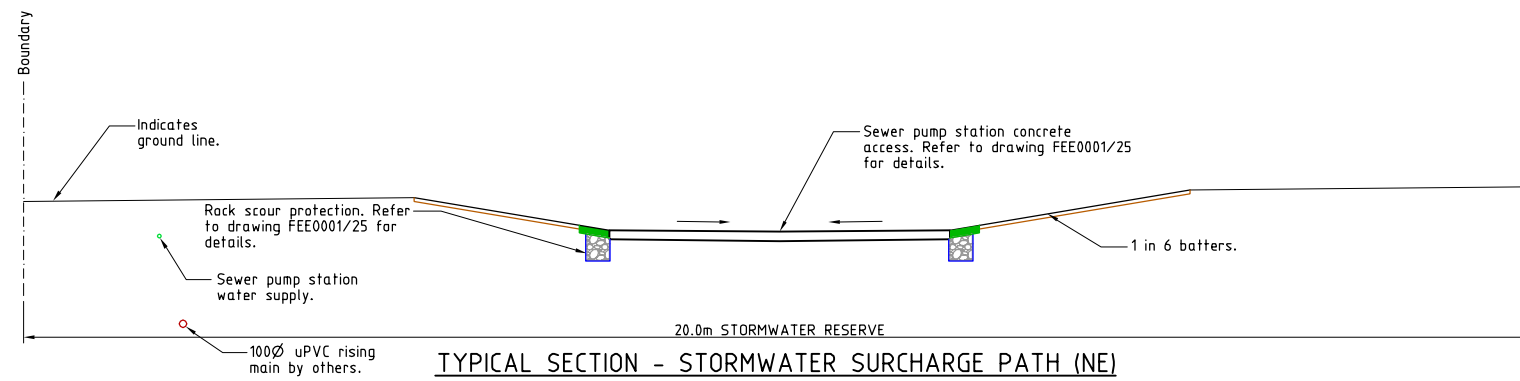
NORTHERN CONSULTING engineers
Civil & Structural Engineers
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Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.
ACN 100 817 356

C	AMENDED TO AS CONSTRUCTED.	20/03/2017
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010
Issue	Description	Date
Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	
Checked	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO	
Approved	PINNACLE VIEW ESTATE	
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Drawing Number FEE0001/23		Issue C





**ACCEPTED
AS CONSTRUCTED**



AS CONSTRUCTED
Northern Consulting Engineers hereby certify that the works detailed on this drawing have been constructed to the dimensions and levels detailed.
Date: 21/03/2017
Derek Robert Conley Saw



REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

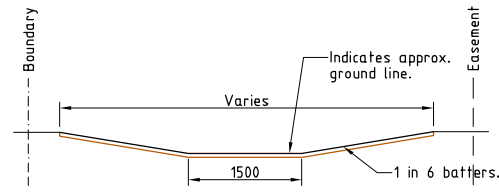
Scale
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LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place
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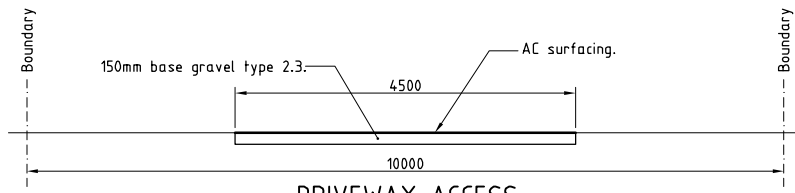
NORTHERN CONSULTING
engineers
Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.
ACN 100 817 356

Issue	Description	Date
C	AMENDED TO AS CONSTRUCTED - NW & SW SURCHARGE PATHS INCLUDED.	20/03/2017
B	AMENDED TO AS CONSTRUCTED.	11/03/2016
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

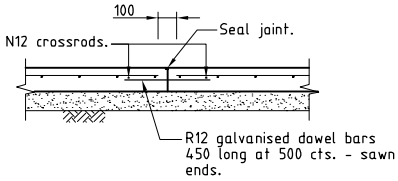
Drawn DC Date 16/09/2010	In Association With MARKWELL GROUP	STORMWATER OUTLET DRAIN TYPICAL SECTIONS
Checked HAB Approved	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
COPYRIGHT ©	Drawing Number FEE0001/24	Issue C



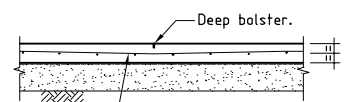
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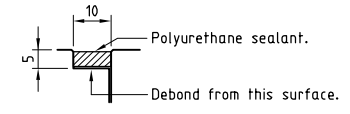
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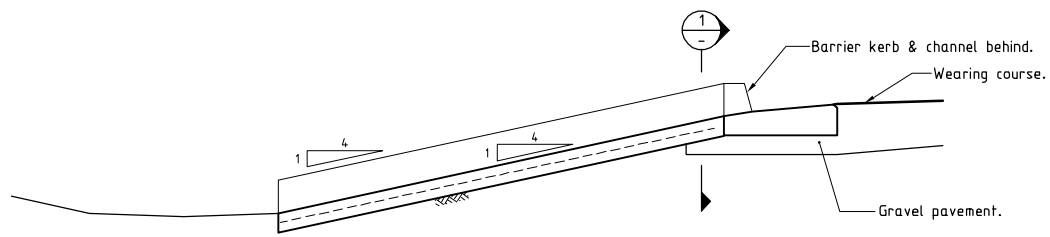
SLAB JOINT (SJ)
Scale 'B'



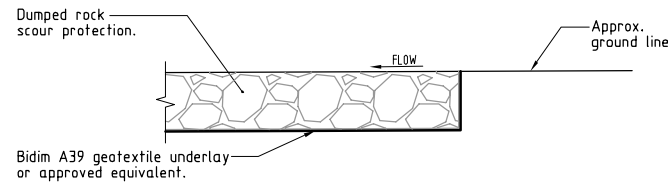
BOLSTERED JOINT (BJ)
Scale 'B'



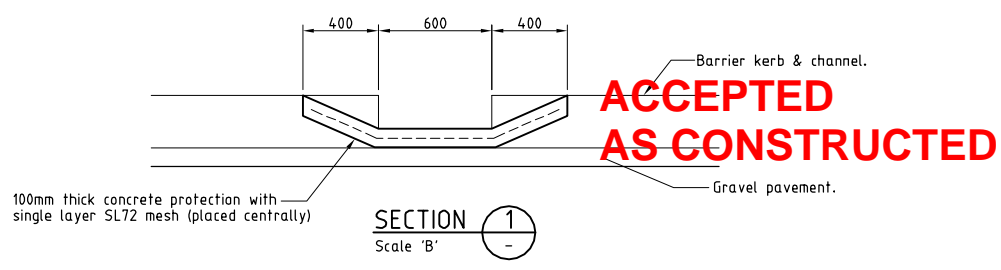
DETAIL-SEAL TO ALL EXTERNAL JOINTS



CONCRETE OUTLET TO SLOT IN KERB
Scale 'B'

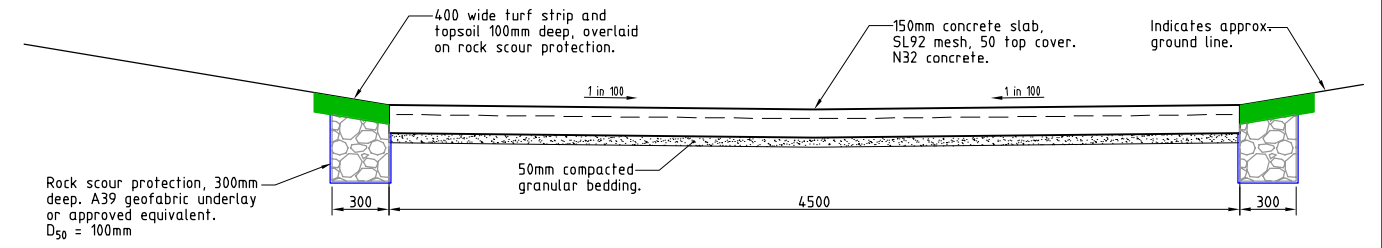


ROCK SCOUR EDGE RESTRAINT (TYPICAL)
Scale 'A'

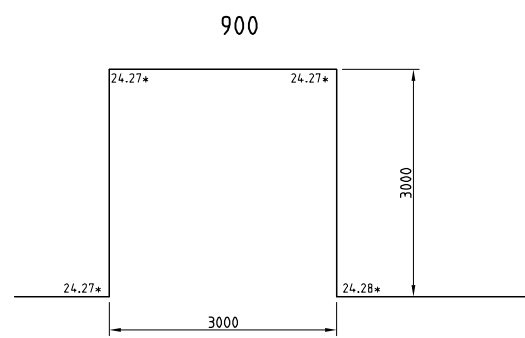


ACCEPTED AS CONSTRUCTED

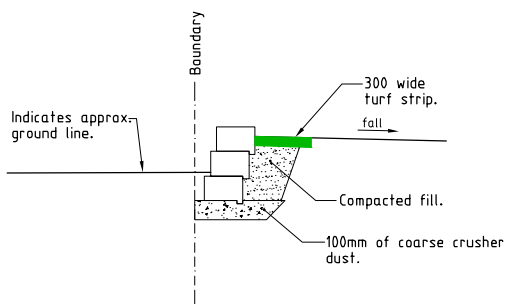
SECTION 1
Scale 'B'



SEWER PUMP STATION CONCRETE ACCESS
Scale 'B'



DUNLOP STREET
PADMOUNT SITE PLAN
Scale 'A'



LINK BLOCK RETAINING WALL
Scale 'B'



REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

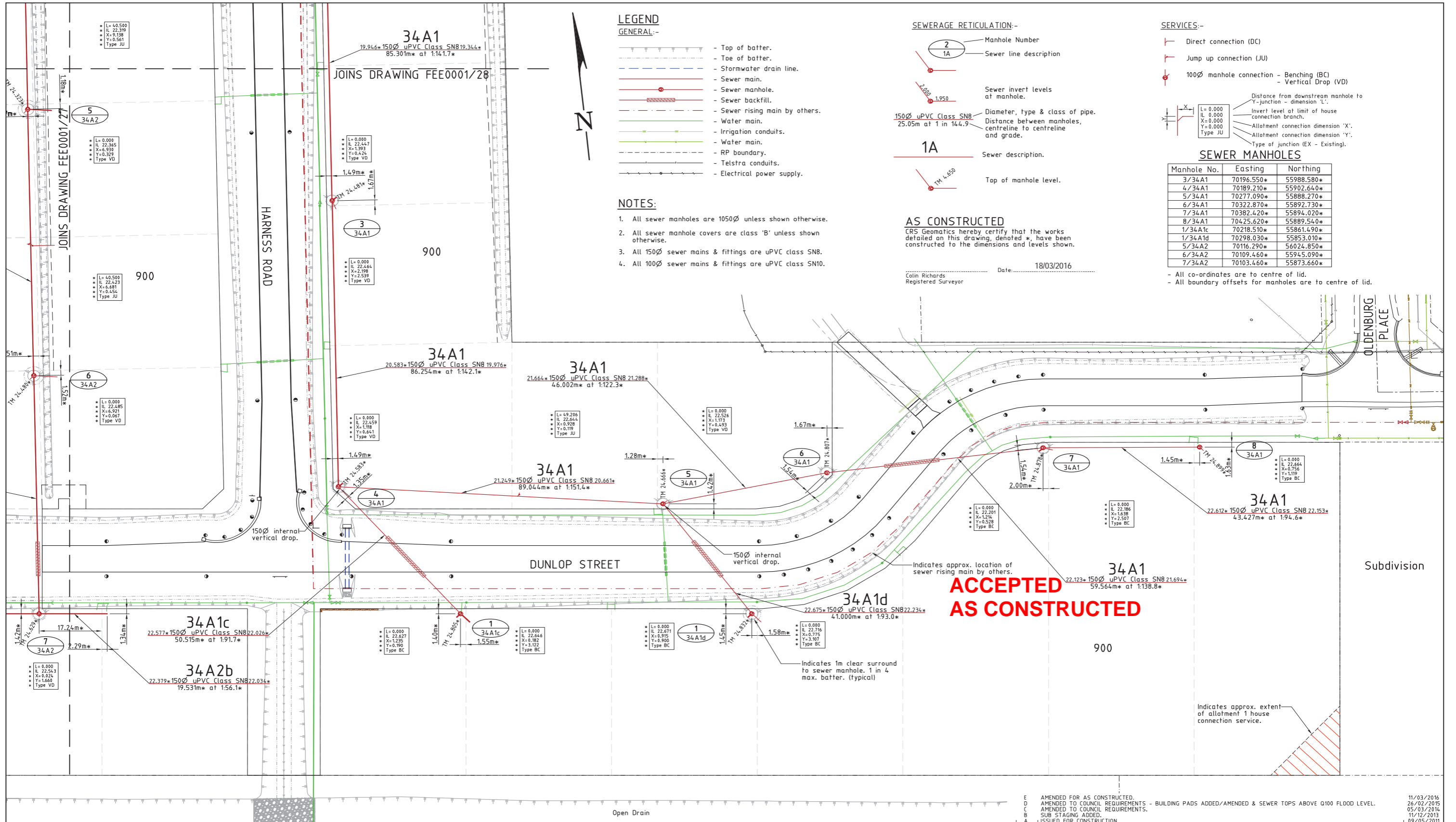
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Scale 'B' 0 200 400 600 800
THE ORIGINAL OF THIS DOCUMENT IS COMPLETED TO THE SCALE NOTED. AS REPRODUCTION CAN DISTORT SIZE & SHAPE USE ONLY THE DIMENSIONS PROVIDED ON ARCHITECTURAL &/OR ENGINEERING DRAWINGS. VERIFY DIMENSIONS ON SITE BEFORE CONSTRUCTION.

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94

NORTHERN CONSULTING engineers
Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.
ACN 100 817 356

Issue	Description	Date
B	AMENDED TO AS CONSTRUCTED.	11/03/2016
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn	DC	In Association With	MARKWELL GROUP	CONSTRUCTION DETAILS
Date	16/09/2010			
Checked	HAB	52 ALLOTMENT PARK	RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	Drawing Number FEE0001/25
Approved				
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ACCEPTED AS CONSTRUCTED

LAYOUT PLAN

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94



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Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.

REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

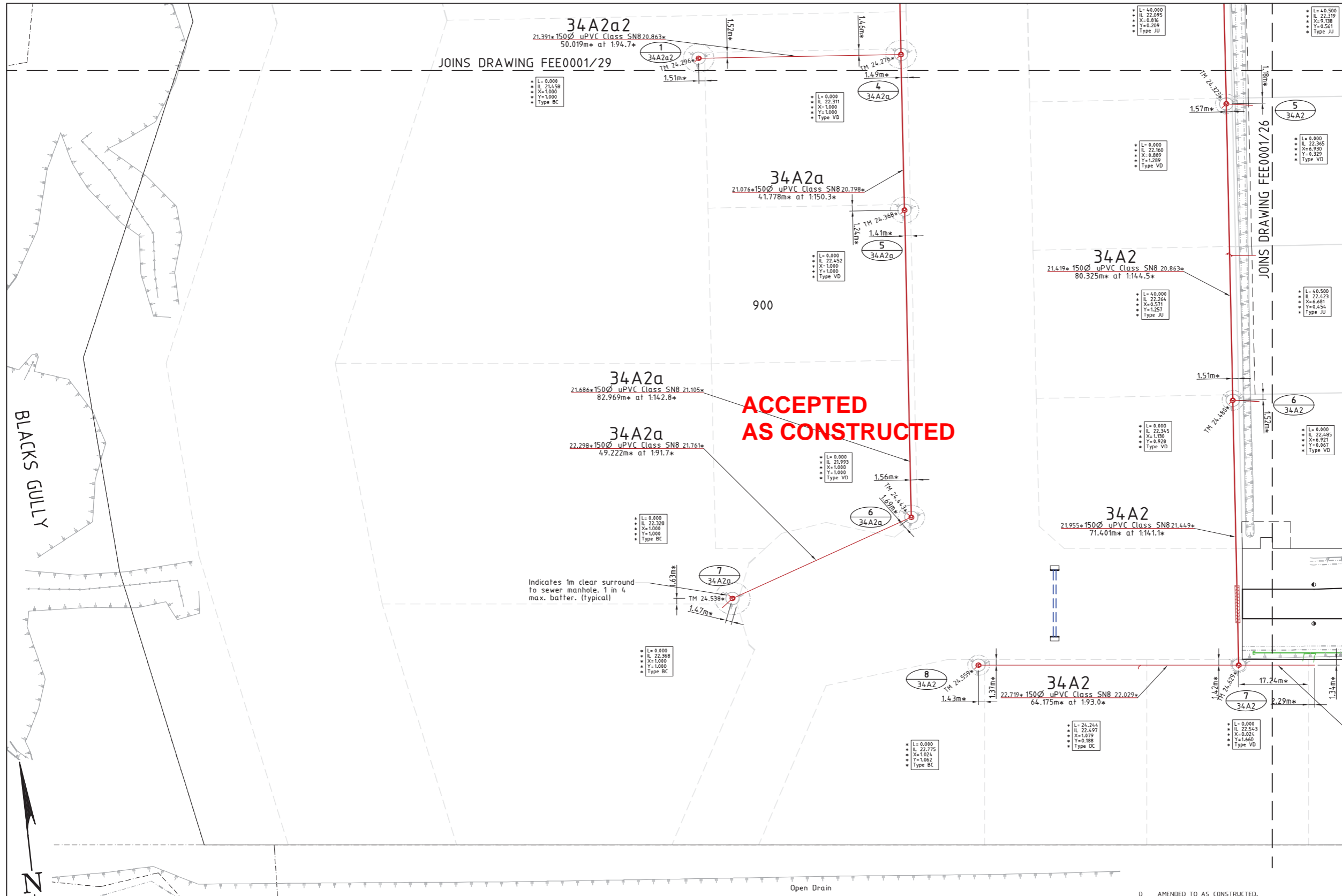
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THE ORIGINAL OF THIS DOCUMENT IS COMPLETED TO THE SCALE NOTED. AS REPRODUCTION CAN DISTORT SIZE & SHAPE USE ONLY THE DIMENSIONS PROVIDED ON ARCHITECTURAL &/OR ENGINEERING DRAWINGS. VERIFY DIMENSIONS ON SITE BEFORE CONSTRUCTION.

Issue	Description	Date
E	AMENDED FOR AS CONSTRUCTED.	11/03/2016
D	AMENDED TO COUNCIL REQUIREMENTS - BUILDING PADS ADDED/AMENDED & SEWER TOPS ABOVE Q100 FLOOD LEVEL.	26/02/2015
C	AMENDED TO COUNCIL REQUIREMENTS.	05/03/2014
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn	In Association With	SEWER RETICULATION PLAN
KJM	MARKWELL GROUP	
Date	52 ALLOTMENT PARK	
16/09/2010	RESIDENTIAL SUBDIVISION	
Checked	DUNLOP STREET, KELSO	
HAB	PINNACLE VIEW ESTATE	
Approved		
COPYRIGHT ©		

Drawing Number	Issue
FEE0001/26	E

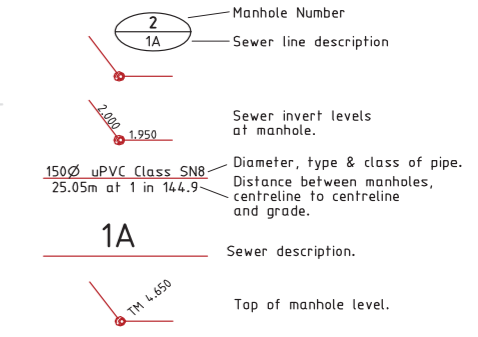


LEGEND
GENERAL:-

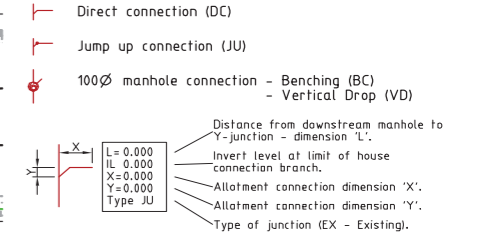
- Top of batter.
- Toe of batter.
- Stormwater drain line.
- Sewer main.
- Sewer manhole.
- Sewer backfill.
- Water main.
- RP boundary.

- NOTES:**
1. All sewer manholes are 1050Ø unless shown otherwise.
 2. All sewer manhole covers are class 'B' unless shown otherwise.
 3. All 150Ø sewer mains & fittings are uPVC class SN8.
 4. All 100Ø sewer mains & fittings are uPVC class SN10.

SEWERAGE RETICULATION:-



SERVICES:-



SEWER MANHOLES

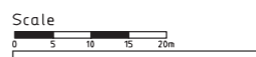
Manhole No.	Easting	Northing
5/34A2	70116.290*	56024.850*
6/34A2	70109.460*	55945.090*
7/34A2	70103.460*	55873.660*
8/34A2	70039.650*	55880.480*
4/34A2a	70037.910*	56046.290*
5/34A2a	70034.440*	56004.660*
6/34A2a	70027.220*	55922.000*
7/34A2a	69981.100*	55904.800*
1/34A2a2	69988.070*	56050.500*

- All co-ordinates are to centre of lid.
- All boundary offsets for manholes are to centre of lid.

AS CONSTRUCTED
CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

Cain Richards
Registered Surveyor
Date: 18/03/2016

LAYOUT PLAN



THE ORIGINAL OF THIS DOCUMENT IS COMPLETED TO THE SCALE NOTED. AS REPRODUCTION CAN DISTORT SIZE & SHAPE USE ONLY THE DIMENSIONS PROVIDED ON ARCHITECTURAL &/OR ENGINEERING DRAWINGS. VERIFY DIMENSIONS ON SITE BEFORE CONSTRUCTION.

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94



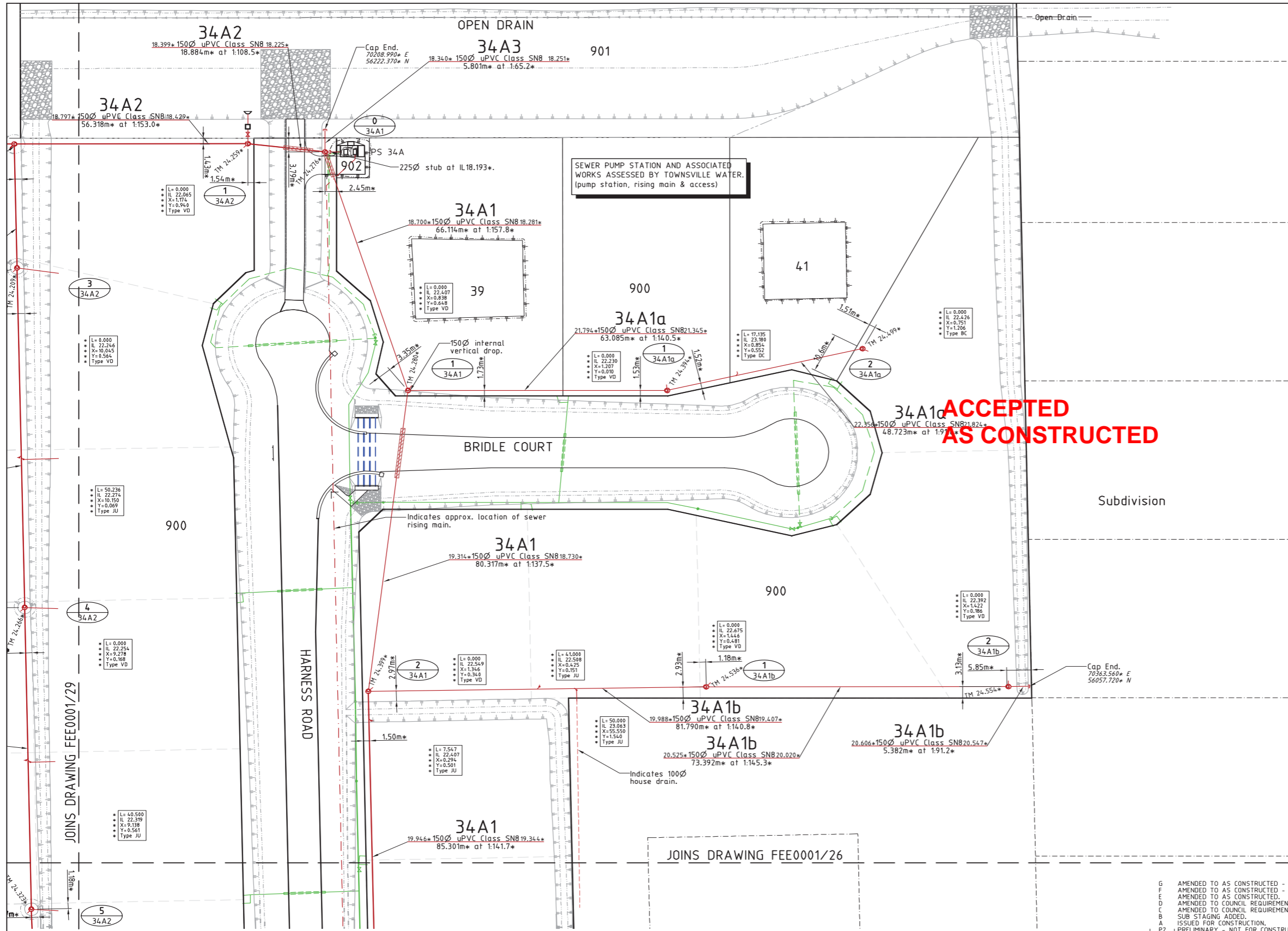
Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.
ACN 100 817 356

Issue	Description	Date
D	AMENDED TO AS CONSTRUCTED.	11/03/2016
C	AMENDED TO COUNCIL REQUIREMENTS - BUILDING PADS ADDED/AMENDED & SEWER TOPS ABOVE Q100 FLOOD LEVEL.	26/02/2015
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010 Checked HAB Approved	In Association With MARKWELL GROUP 52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	SEWER RETICULATION PLAN Drawing Number FEE0001/27	Issue D
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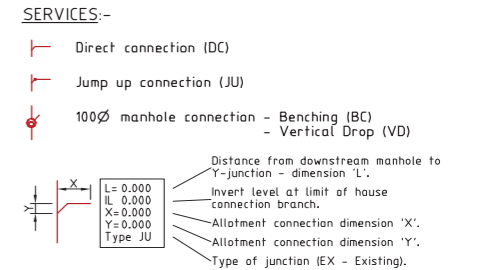
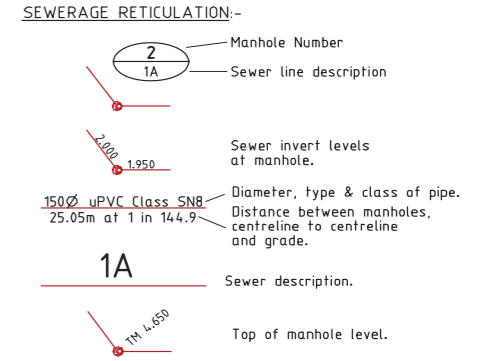
REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place



- LEGEND**
GENERAL:-
- Top of batter.
 - Toe of batter.
 - Stormwater drain line.
 - Sewer main.
 - Sewer manhole.
 - Sewer backfill.
 - Sewer rising main by others.
 - Water main.
 - Poly water main.
 - RP boundary.

- NOTES:**
1. All sewer manholes are 1050Ø unless shown otherwise.
 2. All sewer manhole covers are class 'B' unless shown otherwise.
 3. All 150Ø & 225Ø sewer mains & fittings are uPVC class SN8.
 4. All 100Ø sewer mains & fittings are uPVC class SN10.



SEWER MANHOLES

Manhole No.	Easting	Northing
0/34A1	70208.720*	56216.890*
1/34A1	70221.680*	56151.870*
2/34A1	70203.780*	56073.570*
1/34A1a	70284.390*	56145.020*
2/34A1a	70332.730*	56151.120*
1/34A1b	70285.210*	56065.890*
2/34A1b	70358.200*	56058.230*
1/34A2	70189.450*	56220.823*
2/34A2	70133.920*	56226.540*
3/34A2	70130.830*	56193.870*
4/34A2	70123.100*	56104.350*
5/34A2	70116.290*	56024.850*

- All co-ordinates are to centre of lid.
- All boundary offsets for manholes are to centre of lid.

ACCEPTED AS CONSTRUCTED

AS CONSTRUCTED
CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

LAYOUT PLAN

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94

REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

Date: 18/03/2016
Colin Richards
Registered Surveyor

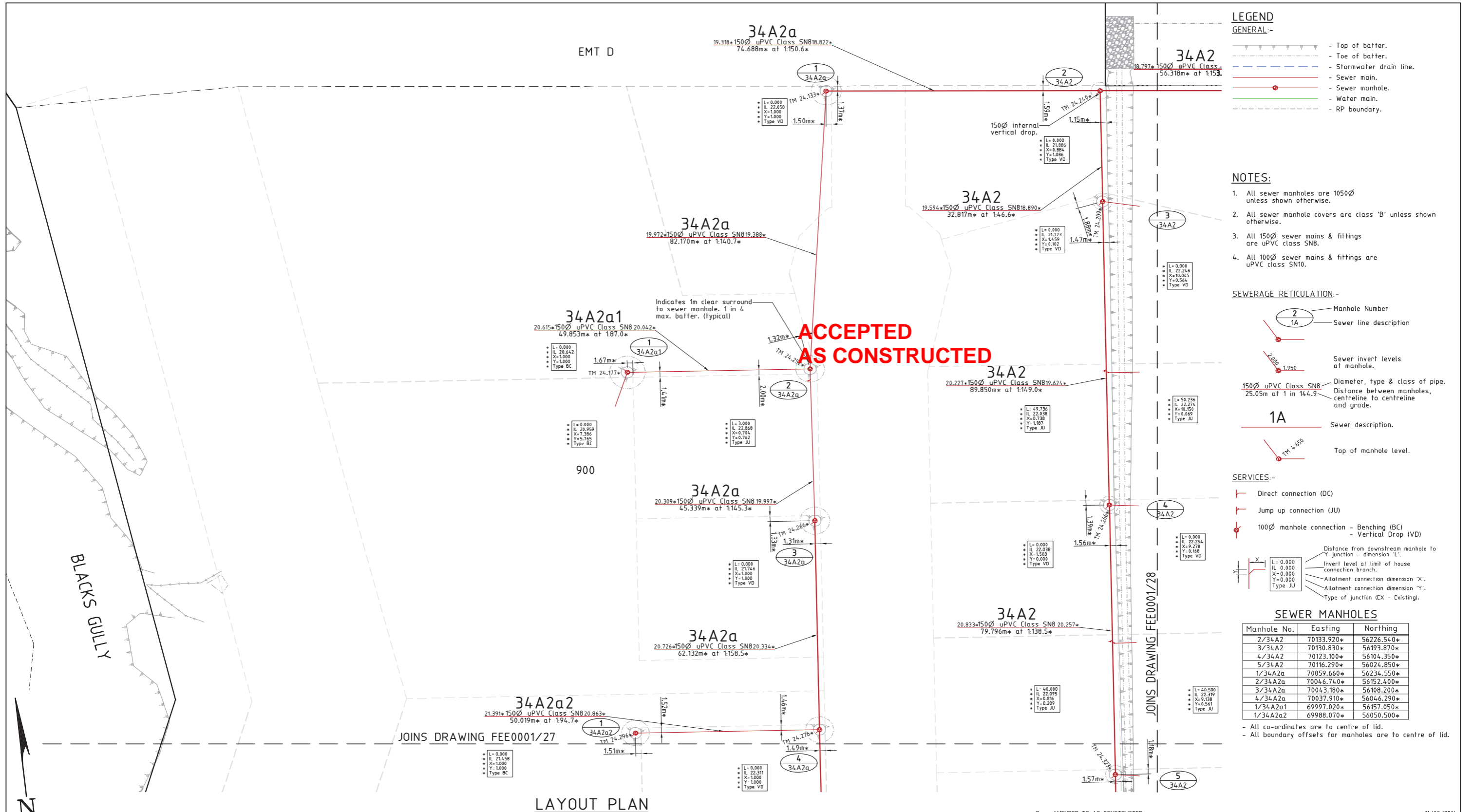
Scale
0 5 10 15 20m
THE ORIGINAL OF THIS DOCUMENT IS COMPLETED TO THE SCALE NOTED. AS REPRODUCTION CAN DISTORT SIZE & SHAPE USE ONLY THE DIMENSIONS PROVIDED ON ARCHITECTURAL &/OR ENGINEERING DRAWINGS. VERIFY DIMENSIONS ON SITE BEFORE CONSTRUCTION.



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Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.

Issue	Description	Date
G	AMENDED TO AS CONSTRUCTED - BUILDING PAD AMENDED.	17/03/2016
F	AMENDED TO AS CONSTRUCTED - LOT 41 INCLUDED.	15/03/2016
E	AMENDED TO AS CONSTRUCTED.	11/03/2016
D	AMENDED TO COUNCIL REQUIREMENTS - BUILDING PADS ADDED/AMENDED & SEWER TOPS ABOVE Q100 FLOOD LEVEL.	26/02/2015
C	AMENDED TO COUNCIL REQUIREMENTS.	05/03/2014
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

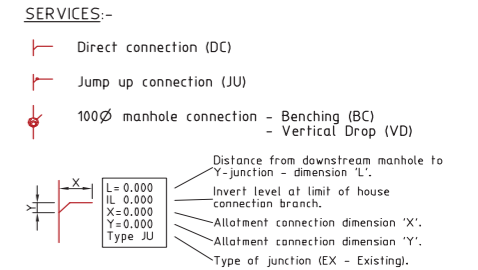
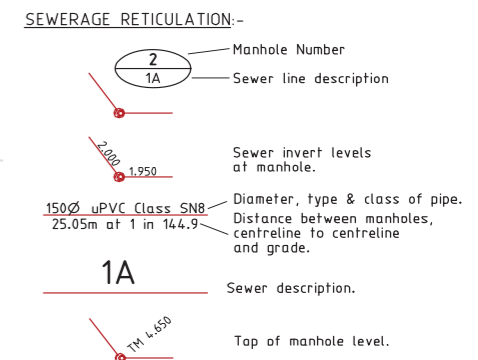
Drawn	In Association With	SEWER RETICULATION PLAN
KJM	MARKWELL GROUP	
Date	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	Drawing Number
16/09/2010		FEE0001/28
Checked		Issue
HAB		G
Approved		
COPYRIGHT ©		



LEGEND
GENERAL:-

- Top of batter.
- Toe of batter.
- Stormwater drain line.
- Sewer main.
- Sewer manhole.
- Water main.
- RP boundary.

- NOTES:**
- All sewer manholes are 1050Ø unless shown otherwise.
 - All sewer manhole covers are class 'B' unless shown otherwise.
 - All 150Ø sewer mains & fittings are uPVC class SN8.
 - All 100Ø sewer mains & fittings are uPVC class SN10.



SEWER MANHOLES

Manhole No.	Easting	Northing
2/34A2	70133.920*	56226.540*
3/34A2	70130.830*	56193.870*
4/34A2	70123.100*	56104.350*
5/34A2	70116.290*	56024.850*
1/34A2a	70059.660*	56234.550*
2/34A2a	70046.740*	56152.400*
3/34A2a	70043.180*	56108.200*
4/34A2a	70037.910*	56046.290*
1/34A2a1	69997.020*	56157.050*
1/34A2a2	69988.070*	56050.500*

- All co-ordinates are to centre of lid.
- All boundary offsets for manholes are to centre of lid.

AS CONSTRUCTED
CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

Colin Richards
Registered Surveyor
Date: 18/03/2016

REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

Scale
0 5 10 15 20m
THE ORIGINAL OF THIS DOCUMENT IS COMPLETED TO THE SCALE NOTED. AS REPRODUCTION CAN DISTORT SIZE & SHAPE USE ONLY THE DIMENSIONS PROVIDED ON ARCHITECTURAL &/OR ENGINEERING DRAWINGS. VERIFY DIMENSIONS ON SITE BEFORE CONSTRUCTION.

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94

NORTHERN CONSULTING
en ineers
Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.

Issue	Description	Date
D	AMENDED TO A5 CONSTRUCTED.	11/03/2016
C	AMENDED TO COUNCIL REQUIREMENTS - BUILDING PADS ADDED/AMENDED & SEWER TOPS ABOVE Q100 FLOOD LEVEL.	26/02/2015
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	SEWER RETICULATION PLAN
Checked HAB Approved	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
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		Issue D

JOINS DRAWING_FEE0001/31

18/03/2016

LEGEND

GENERAL:-

- Sewer main.
- Sewer manhole.
- Sewer rising main by others.
- Water main.
- Irrigation conduits.
- Water main.
- RP boundary.
- Telstra conduits.
- Electrical power supply.

WATER RETICULATION:-

- FH Fire Hydrant.
- SV Stop Valve.
- Reducer.
- DSC Double Service Connection.
- SSC Single Service Connection.

NOTES:

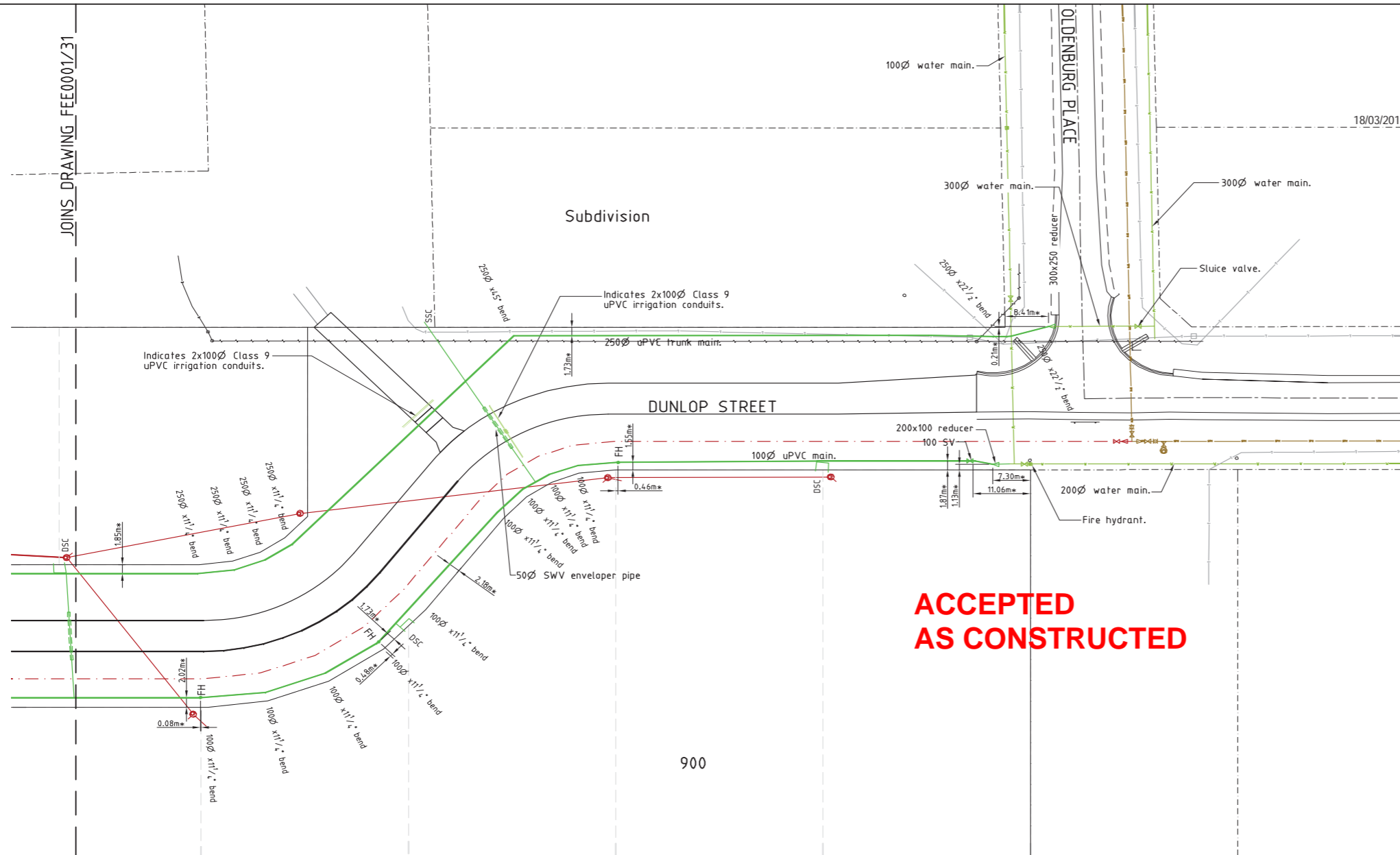
AS CONSTRUCTED WATER RETICULATION:

1. All water supply fixtures (FH, SV etc.) have been installed in accordance with Townsville City Council standards. ie. adjacent to boundary intersection, U.N.O.
2. All uPVC water mains & fittings are Class 16, C.I.O.D. compatible unless shown otherwise.

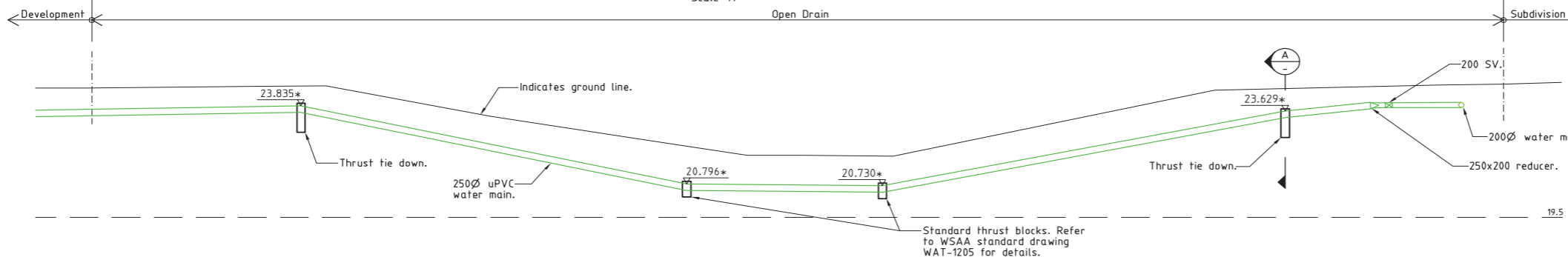
AS CONSTRUCTED

CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

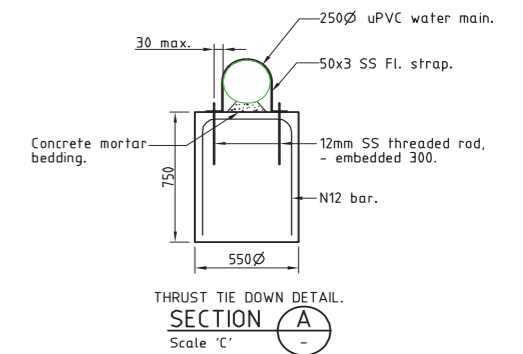
Date: 18/03/2016
Cain Richards
Registered Surveyor



LAYOUT PLAN
Scale 'A'



250 uPVC WATER MAIN OPEN DRAIN CROSSING
Scale 'B'

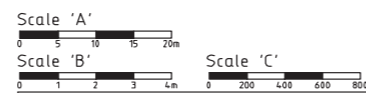


THRUST TIE DOWN DETAIL
SECTION A
Scale 'C'

REAL PROPERTY DESCRIPTION

Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place



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All work is to be carried out in accordance with LOCAL AUTHORITIES standard details.

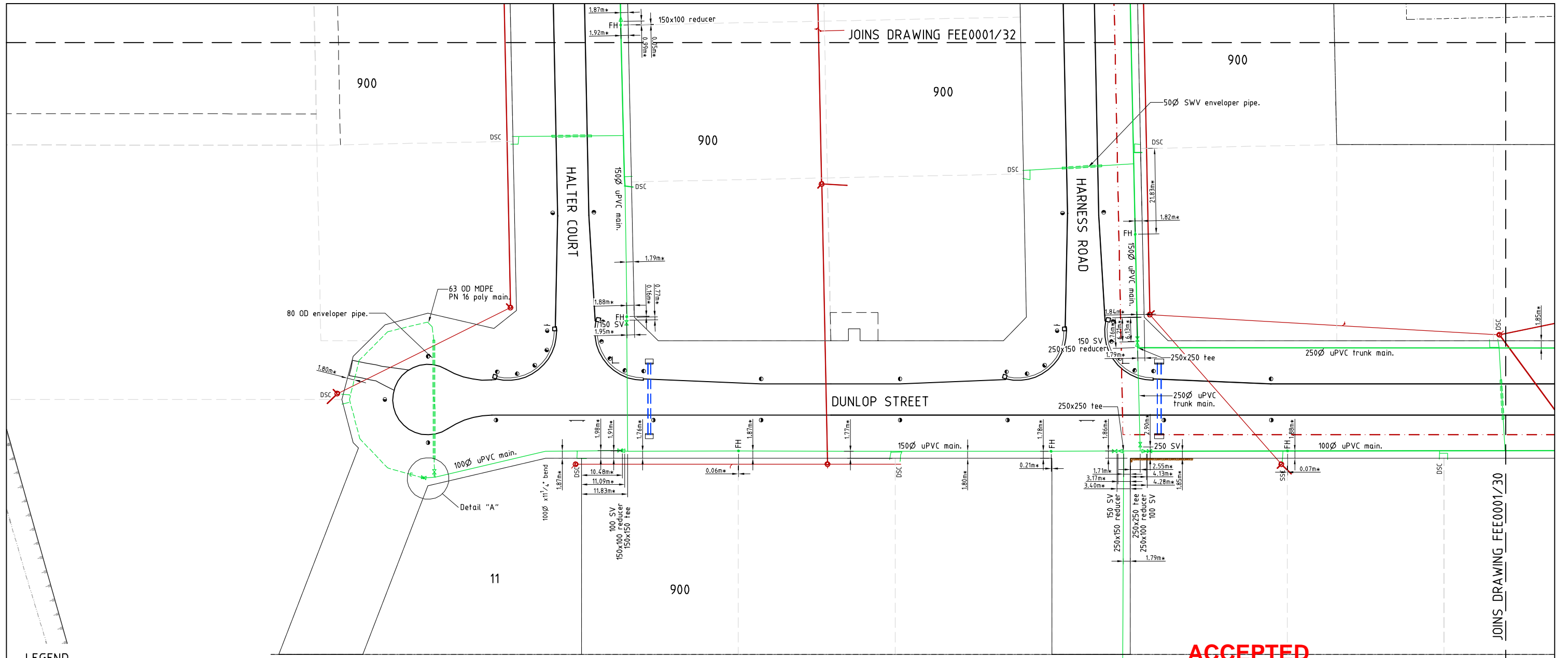
Coordinate Grid is plane truncated MGA'94



Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.

Issue	Description	Date
D	AMENDED TO AS CONSTRUCTED.	11/03/2016
C	AMENDED TO COUNCIL REQUIREMENTS.	05/03/2014
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - WATER LAYOUT AMENDED TO MATCH EXISTING.	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn KJM Date 16/09/2010	In Association With MARKWELL GROUP	WATER RETICULATION PLAN
Checked HAB Approved	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
COPYRIGHT ©		Drawing Number FEE0001/30
		Issue D



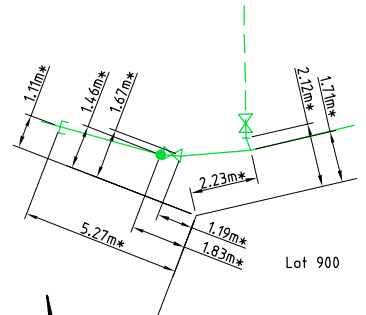
**ACCEPTED
AS CONSTRUCTED**

LEGEND

- GENERAL:-**
- Stormwater drain line.
 - Sewer main.
 - Sewer manhole.
 - Sewer rising main by others.
 - Water main.
 - Water main.
 - RP boundary.

WATER RETICULATION:-

- FH Fire Hydrant.
- SV Stop Valve.
- Reducer.
- DSC Double Service Connection.
- SSC Single Service Connection.



DETAIL "A"
N.T.S.

- NOTES:**
- AS CONSTRUCTED WATER RETICULATION:**
- All water supply fixtures (FH, SV etc.) have been installed in accordance with Townsville City Council standards. ie. adjacent to boundary intersection, U.N.O.
 - All uPVC water mains & fittings are Class 16, C.I.O.D. compatible unless shown otherwise.

REAL PROPERTY DESCRIPTION

Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO



LAYOUT PLAN

AS CONSTRUCTED
CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.

Colin Richards
Registered Surveyor
Date: 21/03/2017

Scale
0 5 10 15 20m

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

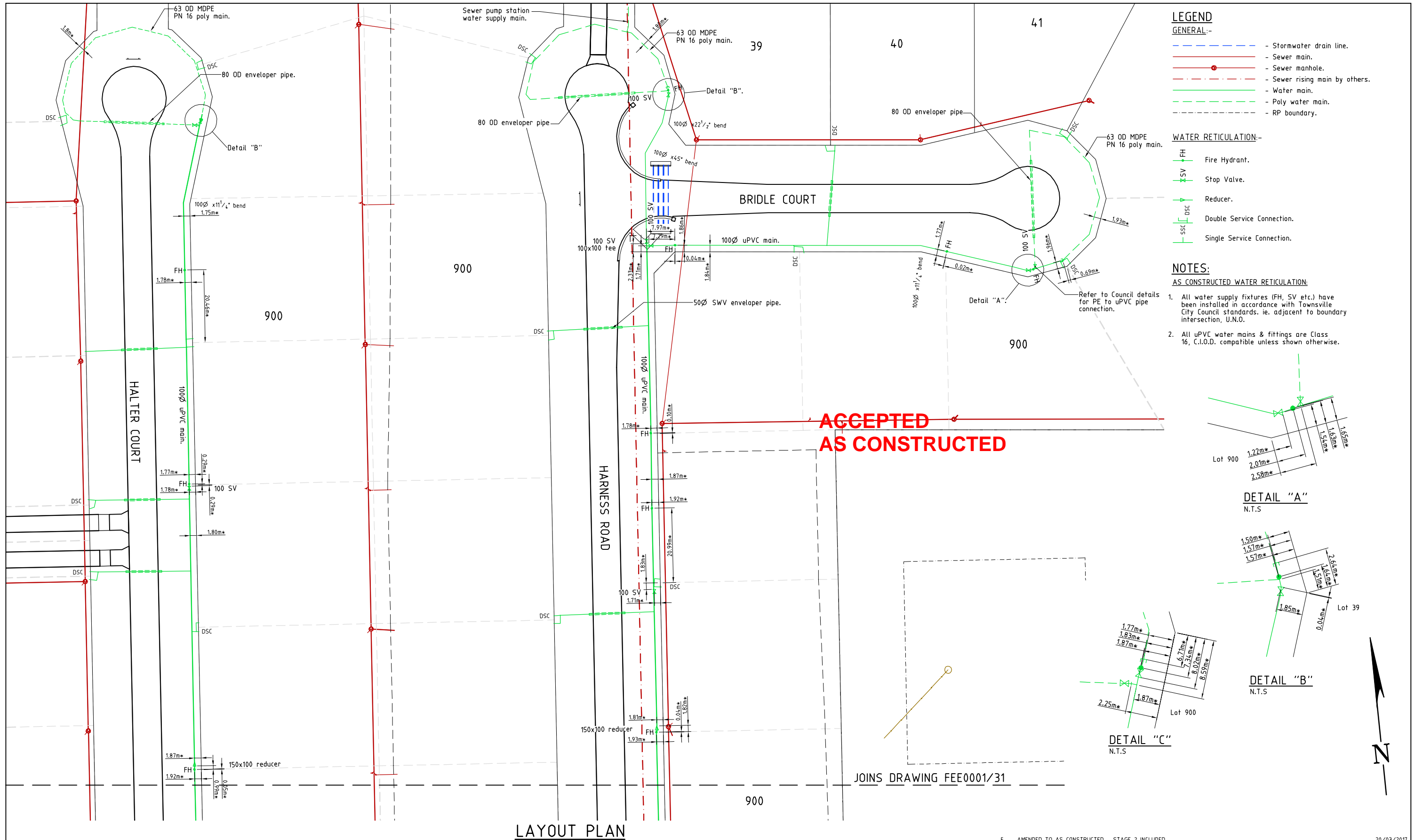
THE ORIGINAL OF THIS DOCUMENT IS COMPLETED TO THE SCALE NOTED.
AS REPRODUCTION CAN DISTORT SIZE & SHAPE USE ONLY THE DIMENSIONS PROVIDED ON ARCHITECTURAL &/OR ENGINEERING DRAWINGS.
VERIFY DIMENSIONS ON SITE BEFORE CONSTRUCTION.

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94

Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.
ACN 100 817 356

Issue	Description	Date
E	AMENDED TO AS CONSTRUCTED - STAGE 2 INCLUDED.	20/03/2017
D	AMENDED TO AS CONSTRUCTED.	11/03/2016
C	AMENDED TO COUNCIL REQUIREMENTS.	05/03/2014
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

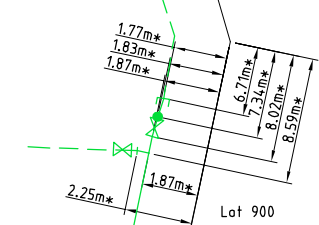
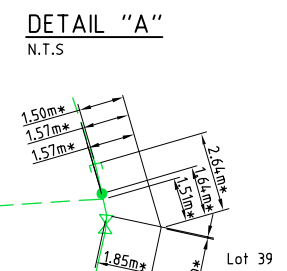
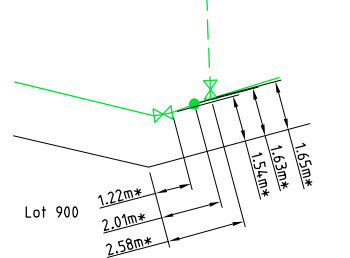
Drawn KJM	In Association With MARKWELL GROUP	WATER RETICULATION PLAN
Date 16/09/2010	52 ALLOTMENT PARK RESIDENTIAL SUBDIVISION DUNLOP STREET, KELSO PINNACLE VIEW ESTATE	
Checked HAB		Drawing Number FEE0001/31
Approved		Issue E
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- LEGEND**
GENERAL:-
- Stormwater drain line.
 - Sewer main.
 - Sewer manhole.
 - Sewer rising main by others.
 - Water main.
 - Poly water main.
 - RP boundary.

- WATER RETICULATION:-**
- FH Fire Hydrant.
 - SV Stop Valve.
 - Reducer.
 - DSC Double Service Connection.
 - SSC Single Service Connection.

- NOTES:**
AS CONSTRUCTED WATER RETICULATION:
- All water supply fixtures (FH, SV etc.) have been installed in accordance with Townsville City Council standards, ie. adjacent to boundary intersection, U.N.O.
 - All uPVC water mains & fittings are Class 16, C.I.O.D. compatible unless shown otherwise.



ACCEPTED AS CONSTRUCTED

JOINS DRAWING FEE0001/31

LAYOUT PLAN

AS CONSTRUCTED
CRS Geomatics hereby certify that the works detailed on this drawing, denoted *, have been constructed to the dimensions and levels shown.



Date: 21/03/2017
Colin Richards
Registered Surveyor

REAL PROPERTY DESCRIPTION
Lot 2 on SP208523
Parish of ROSS
County of ELPHINSTONE
DUNLOP STREET - KELSO

LEVEL DATUM A.H.D.
Refer PM114246 RL. 24.668
Oldenburg Place

Scale
0 5 10 15 20m

THE ORIGINAL OF THIS DOCUMENT IS COMPLETED TO THE SCALE NOTED. AS REPRODUCTION CAN DISTORT SIZE & SHAPE USE ONLY THE DIMENSIONS PROVIDED ON ARCHITECTURAL &/OR ENGINEERING DRAWINGS. VERIFY DIMENSIONS ON SITE BEFORE CONSTRUCTION.

All work is to be carried out in accordance with LOCAL AUTHORITIES standard details. Coordinate Grid is plane truncated MGA'94

NORTHERN CONSULTING engineers

Civil & Structural Engineers
50 Punari Street, Currajong 4812
Phone: [07] 4725 5550 Fax: [07] 4725 5850
Email: mail@nceng.com.au
Milton Messer & Associates Pty. Ltd.
ACN 100 817 356

Issue	Description	Date
F	AMENDED TO AS CONSTRUCTED - STAGE 2 INCLUDED.	20/03/2017
E	AMENDED TO AS CONSTRUCTED - LOT 40 INCLUDED.	19/08/2016
D	AMENDED TO AS CONSTRUCTED - LOT 41 INCLUDED.	15/03/2016
C	AMENDED TO AS CONSTRUCTED.	11/03/2016
B	SUB STAGING ADDED.	11/12/2013
A	ISSUED FOR CONSTRUCTION.	09/05/2011
P2	PRELIMINARY - NOT FOR CONSTRUCTION - AMENDED TO COUNCIL REQUIREMENTS	09/02/2011
P1	PRELIMINARY - NOT FOR CONSTRUCTION - ISSUED FOR OPERATIONAL WORKS APPROVAL.	16/09/2010

Drawn	In Association With	WATER RETICULATION PLAN
KJM	MARKWELL GROUP	
Date	52 ALLOTMENT PARK	Drawing Number
16/09/2010	RESIDENTIAL SUBDIVISION	
Checked	DUNLOP STREET, KELSO	FEE0001/32
HAB	PINNACLE VIEW ESTATE	
Approved		Issue
		F