

| Woodlands Stage 4 & 5 As Constructed Plans | | |
|--|---------------------------------------|----------|
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| 2 | Road Layout As Constructed Plan | G |
| 3 | Road Layout As Constructed Plan | G |
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| 7 | Stormwater As Constructed Longsection | H |
| 8 | Stormwater As Constructed Longsection | H |
| 9 | Foul Sewer As Constructed Plan | G |
| 10 | Foul Sewer As Constructed Plan | G |
| 11 | Foul Sewer As Constructed Longsection | G |
| 12 | Foul Sewer As Constructed Longsection | G |
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Registered Surveyor / Surveying Associate / Surveying Graduate


Certified By: SAMANTHA DIVERS (5652)

Date 26 SEPT 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:  RPEQ: 5555

MATTHEW BEGGS

for and on behalf of BMD Consulting Pty Ltd 

| Rev | Description | Drawn | Date |
|-----|--|-------|------------|
| A | Preliminary Drawing | SP | 8.02.2013 |
| B | Preliminary Drawing Revision 2 | SD | 12.03.2013 |
| C | Asconstructed Drawing Revision 3 | SD | 11.04.2013 |
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| G | Asconstructed Drawing Revision 6. - Signed | SD | 18.07.2013 |
| H | Asconstructed Drawing Revision 7. - Signed | SD | 26.09.2013 |
| | Minor Amendments | | |

AS CONSTRUCTED

CLIENT: Civil Contractors

SITE ADDRESS: Woodlands Stages 4 & 5, Bunya Way Andergrove














Drawing Name: General Arrangement Stage 4 & 5

Horizontal Datum: MGA PSM 67982

Vertical Datum: AHD 8.262

Mackay Regional Council

AS CONSTRUCTED LEGEND

-  LIGHT POLE
-  POWER POLE
-  POWER BOX
-  TELSTRA PIT
-  SEWER MANHOLE
-  GULLY GRATE
-  STORMWATER MANHOLE
-  WATER TAPPING BAND
-  FIRE HYDRANT
-  STOP VALVE
-  WATER METER
-  WATER SERVICE POINT 32mm MDPE
-  STORMWATER LINE
- SEWER LINE. All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

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VISION SURVEYS QUEENSLAND

33 River Street, Mackay
PO Box 1730 Mackay 4740
Phone: (07) 4951 0769
Email: mackay@visionsurveysqld.com.au

AI Date: 28.08.2013

Scale: NTS

Surveyor: SD

Dwg Number: 12375 - ASC1 - Rev A

Sheet 1 of 18



Sheet 2 adjoins



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





AS CONSTRUCTED

CLIENT: Civil Contractors
SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

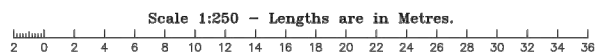
Drawing Name:
 Road Layout
 Stage 4

Horizontal Datum: MGA PSM 67982
Vertical Datum: AHD 8.262
Mackay Regional Council

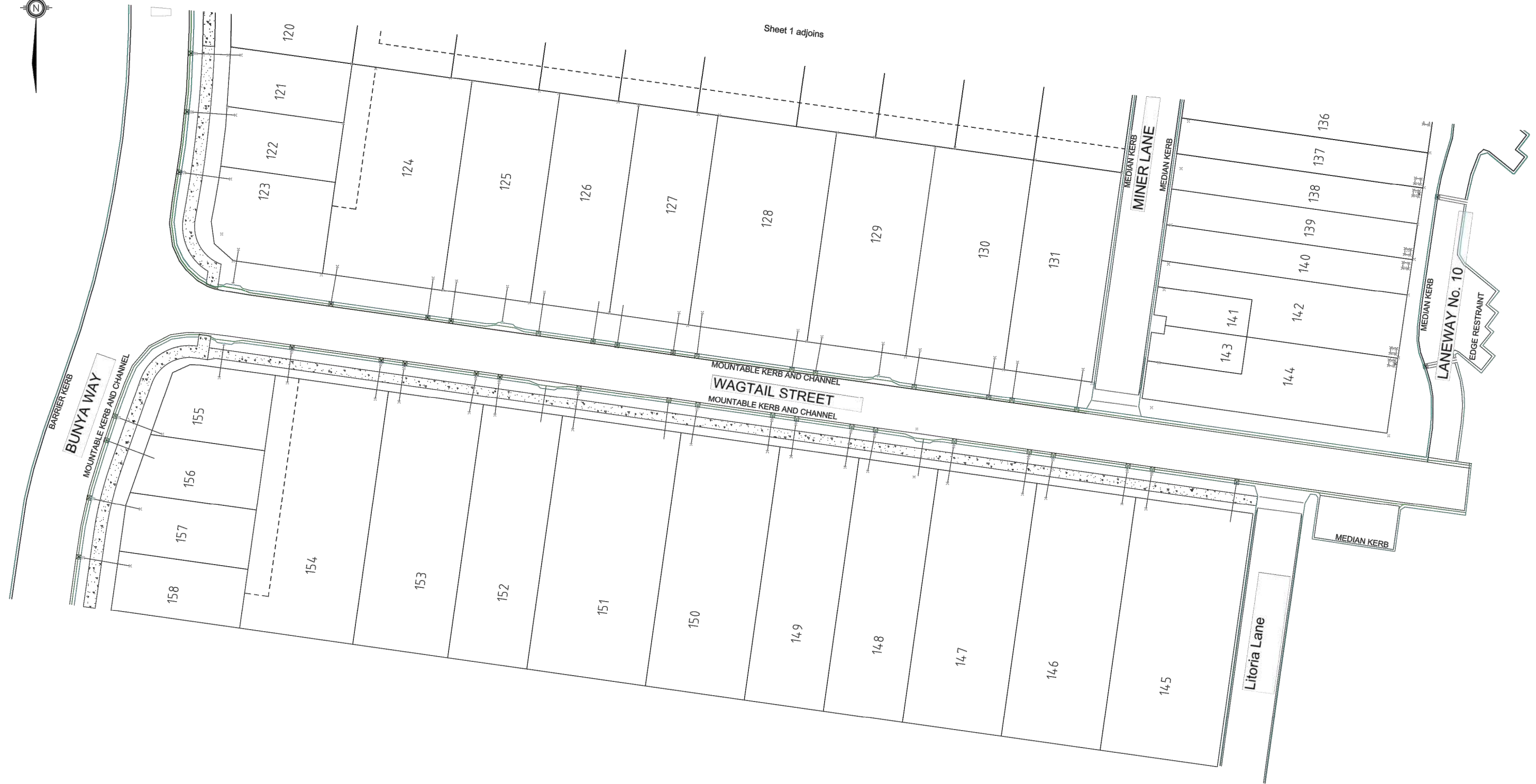
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A1 Date: 28.08.2013
 Scale: 1:250
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 2 of 18



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Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date 31 MAY 2013

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





AS CONSTRUCTED

CLIENT: Civil Contractors
 SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

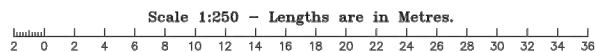
Drawing Name:
 Road Layout
 Stage 5

Horizontal Datum: MGA PSM 67982
 Vertical Datum: AHD 8.262
 Mackay Regional Council

AS CONSTRUCTED LEGEND

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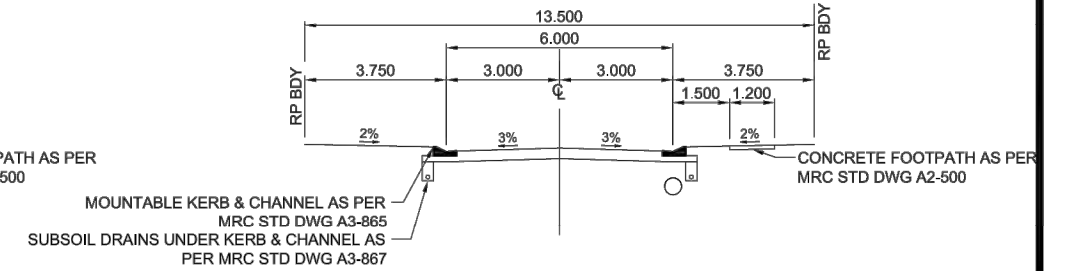
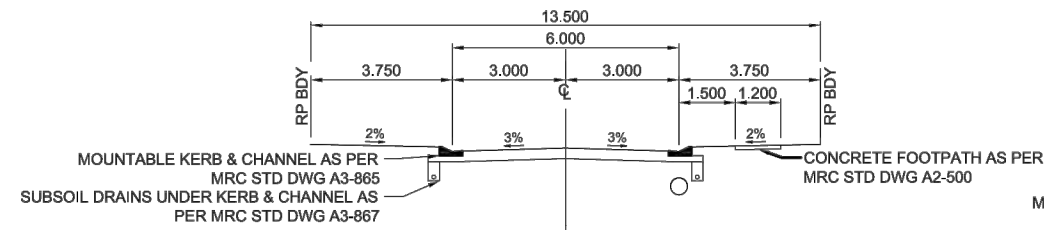
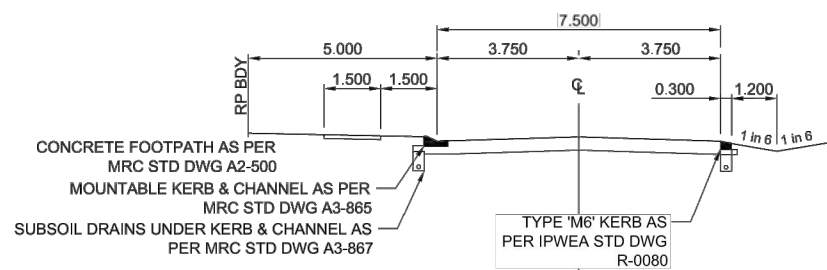
Date: 28.08.2013
 Scale: 1:250
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 3 of 18



| BUNYA WAY | |
|--------------------|-------------------------------|
| Actual CBR | 7 |
| Road Type | Minor Collector |
| Traffic ESA | 1 x10 ^ 6 |
| Pavement Thickness | (mm) |
| AC Surfacing | 50 DG14 |
| Primer Seal | 7 |
| Base Course | 150 |
| Sub Base Course | 150 |
| Lower Sub Base | 150 min |
| Kerb & Channel | Mountable + M6 Edge Restraint |

| BANYAN STREET | |
|--------------------|--------------|
| Actual CBR | 6 |
| Road Type | Access Place |
| Traffic ESA | 2 x10 ^ 4 |
| Pavement Thickness | (mm) |
| AC Surfacing | 30 DG10 |
| Primer Seal | 7 |
| Base Course | 125 |
| Sub Base Course | 125 |
| Lower Sub Base | 75min |
| Kerb & Channel | Mountable |

| WAGTAIL STREET | |
|--------------------|--------------|
| Actual CBR | 7 |
| Road Type | Access Place |
| Traffic ESA | 2 x10 ^ 4 |
| Pavement Thickness | (mm) |
| AC Surfacing | 30 DG10 |
| Primer Seal | 7 |
| Base Course | 125 |
| Sub Base Course | 125 |
| Lower Sub Base | 75min |
| Kerb & Channel | Mountable |



| Station | Centreline | LIP LHS | LIP RHS |
|---------|------------|---------|---------|
| 0.00 | 8.62 | 8.51 | 8.50 |
| 20.00 | 8.50 | 8.40 | 8.40 |
| 23.46 | 8.30 | 8.21 | 8.38 |
| 36.00 | 8.48 | 8.35 | 8.35 |
| 36.16 | 8.48 | 8.37 | 8.37 |
| 40.00 | 8.51 | 8.42 | 8.41 |
| 51.02 | 8.54 | 8.47 | 8.45 |
| 60.00 | 8.57 | 8.52 | 8.48 |
| 67.98 | 8.63 | 8.58 | 8.52 |
| 80.00 | 8.75 | 8.61 | 8.61 |
| 100.00 | 8.82 | 8.71 | 8.71 |
| 116.76 | 8.85 | 8.78 | 8.74 |
| 120.00 | 8.85 | 8.79 | 8.76 |
| 128.57 | 8.85 | 8.81 | 8.77 |
| 132.09 | 8.85 | 8.79 | 8.77 |
| 135.19 | 8.85 | 8.78 | 8.77 |
| 136.58 | 8.84 | 8.75 | 8.76 |
| 140.00 | 8.84 | 8.75 | 8.76 |
| 145.85 | 8.84 | 8.69 | 8.74 |

BUNYA WAY
Scale Horizontal 1:1000 Vertical 1:100

| Station | Centreline | LIP LHS | LIP RHS |
|---------|------------|---------|---------|
| 0.00 | 8.49 | 8.45 | 8.45 |
| 3.38 | 8.30 | 8.21 | 8.20 |
| 13.98 | 8.29 | 8.22 | 8.22 |
| 15.38 | 8.29 | 8.23 | 8.22 |
| 20.00 | 8.38 | 8.30 | 8.32 |
| 40.00 | 8.47 | 8.39 | 8.41 |
| 60.00 | 8.55 | 8.47 | 8.49 |
| 80.00 | 8.63 | 8.56 | 8.56 |
| 100.00 | 8.72 | 8.65 | 8.65 |
| 120.00 | 8.72 | 8.65 | 8.65 |
| 123.13 | 8.75 | 8.70 | 8.70 |
| 138.15 | 8.75 | 8.70 | 8.70 |
| 140.00 | 8.74 | 8.68 | 8.68 |
| 153.17 | 8.74 | 8.68 | 8.68 |

BANYAN STREET
Scale Horizontal 1:1000 Vertical 1:100

| Station | Centreline | LIP LHS | LIP RHS |
|---------|------------|---------|---------|
| 0.00 | 8.79 | 8.71 | 8.71 |
| 3.50 | 8.60 | 8.52 | 8.50 |
| 13.30 | 8.60 | 8.51 | 8.50 |
| 15.78 | 8.60 | 8.52 | 8.52 |
| 20.00 | 8.66 | 8.61 | 8.61 |
| 40.00 | 8.76 | 8.70 | 8.70 |
| 60.00 | 8.86 | 8.79 | 8.79 |
| 80.00 | 8.94 | 8.88 | 8.88 |
| 100.00 | 9.04 | 8.98 | 8.98 |
| 120.00 | 9.15 | 9.10 | 9.10 |
| 140.00 | 9.17 | 9.13 | 9.13 |
| 149.78 | 9.16 | 9.12 | 9.12 |
| 160.00 | 9.10 | 9.04 | 9.04 |

WAGTAIL STREET
Scale Horizontal 1:1000 Vertical 1:100

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Registered Surveyor / Surveying Associate / Surveying Graduate
Certified By: SAMANTHA DIVERS (5652)
Date: 31 MAY 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:
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RPEQ: 5555
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AS CONSTRUCTED

CLIENT: Civil Contractors
SITE ADDRESS:
Woodlands Stages 4 & 5
Bunya Way Andergrove

Drawing Name:
Pavement Design
Typical Cross Section
Long Sections

Horizontal Datum: MGA PSM 67982
Vertical Datum: AHD 8.262

Mackay Regional Council

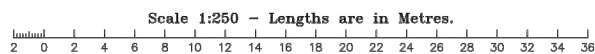
AS CONSTRUCTED LEGEND

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Date: 18.07.2013
Scale: NTS
Surveyor: SD
Dwg Number: 12375 - ASC1 - Rev A
Sheet 4 of 18



Note:
All roofwater pits are 600x600 pits




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AS CONSTRUCTED

CLIENT: Civil Contractors

SITE ADDRESS:
Woodlands Stages 4 & 5
Bunya Way Andergrove










Drawing Name:
Stormwater
Stage 4

Horizontal Datum: MGA PSM 67982

Vertical Datum: AHD 8.262

Mackay Regional Council

AS CONSTRUCTED LEGEND

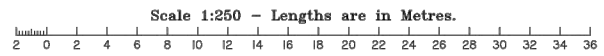
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- WATER METER
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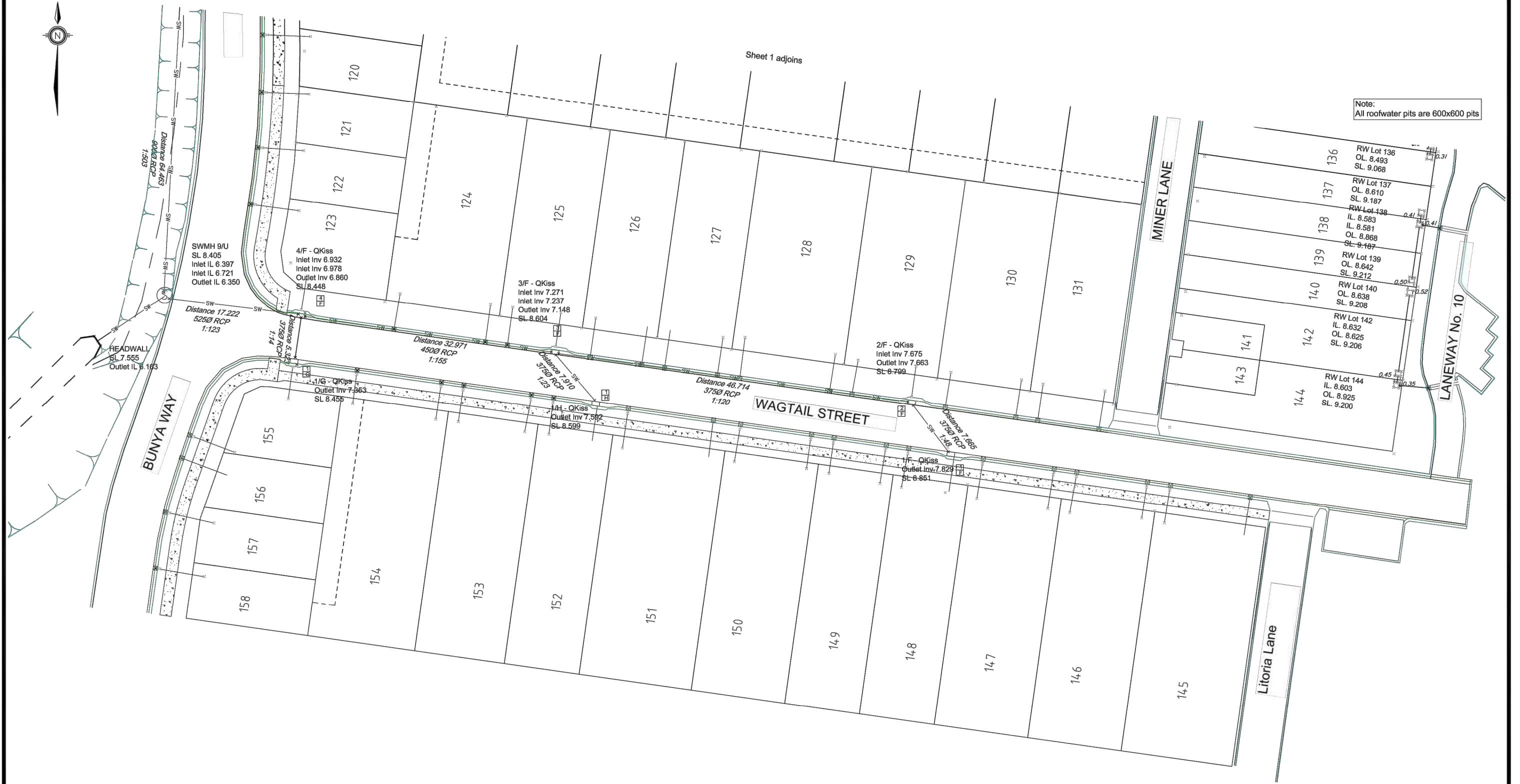
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Dwg Number: 12375 - ASC1 - Rev A
Sheet 5 of 18





Note:
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AS CONSTRUCTED

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 SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

Drawing Name:
 Stormwater
 Stage 5

Horizontal Datum: MGA PSM 67982
 Vertical Datum: AHD 8.262

Mackay Regional Council

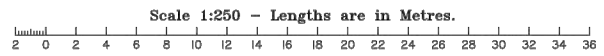
AS CONSTRUCTED LEGEND

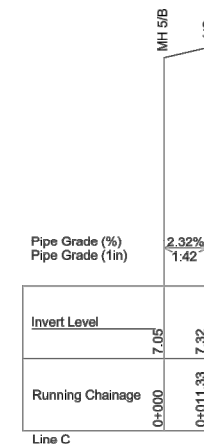
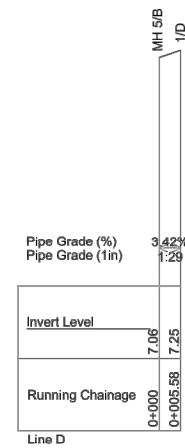
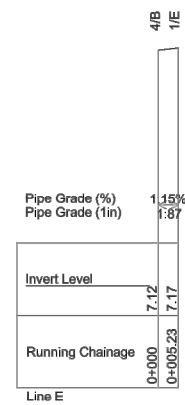
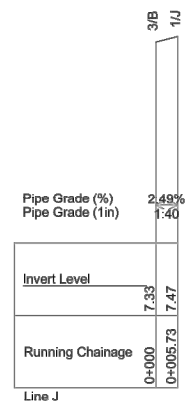
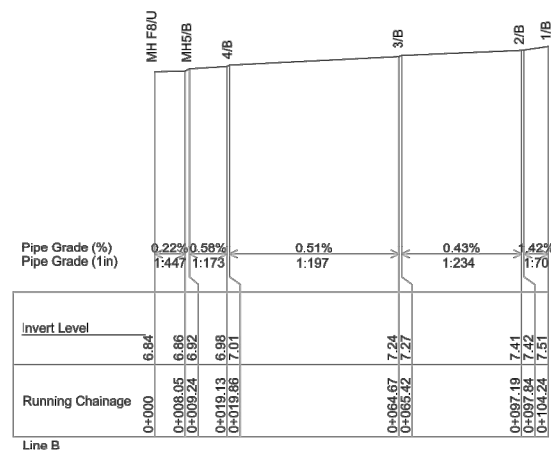
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| E | Asconstructed Drawing Revision 4 - Signed | SD | 31.05.2013 |
| F | Asconstructed Drawing Revision 5 - Signed | SD | 13.06.2013 |
| G | Asconstructed Drawing Revision 6 - Signed Laneways Added. Final Issue | SD | 18.07.2013 |

AS CONSTRUCTED

CLIENT: Civil Contractors

SITE ADDRESS:
Woodlands Stages 4 & 5
Bunya Way Andergrove

Drawing Name:
Stormwater Longsections
Stage 4

Horizontal Datum: MGA PSM 67982

Vertical Datum: AHD 8.262

Mackay Regional Council

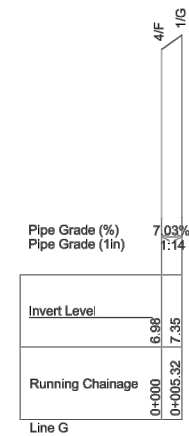
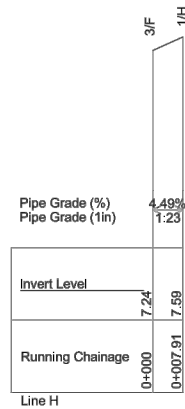
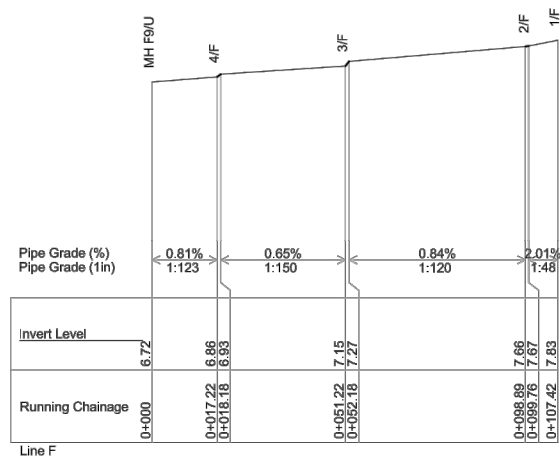
AS CONSTRUCTED LEGEND

- LIGHT POLE
- POWER POLE
- POWER BOX
- TELSTRA PIT
- SEWER MANHOLE
- GULLY GRATE
- STORMWATER MANHOLE
- WATER TAPPING BAND
- FIRE HYDRANT
- STOP VALVE
- WATER METER
- WATER SERVICE POINT 32mm MDPE
- STORMWATER LINE
- SEWER LINE - All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

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VISION SURVEYS QUEENSLAND
33 River Street, Mackay
PO Box 1730 Mackay 4740
Phone: 07 4961 0760
Email: mackay@visionsurveys.com.au

A1 Date: 18.07.2013
Scale: 1:1000H 1:100V
Surveyor: SD
Dwg Number: 12375 - ASC1 - Rev A
Sheet 7 of 18




This drawing is an accurate representation of the works as constructed and the information is suitable for use by Council and others. The locations, surface and invert levels of all as-constructed works and infrastructure have been provided by Vision Surveys (QLD).

Registered Surveyor / Surveying Associate / Surveying Graduate


Certified By: SAMANTHA DIVERS (5652)

Date: 31 MAY 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:  RPEQ: 5555

MATTHEW BEGGS

for and on behalf of BMD Consulting Pty Ltd 

| Rev | Description | Drawn | Date |
|-----|--|-------|------------|
| A | Preliminary Drawing | SP | 8.02.2013 |
| B | Preliminary Drawing Revision 2 | SD | 12.03.2013 |
| C | Asconstructed Drawing Revision 3 | SD | 11.04.2013 |
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| G | Asconstructed Drawing Revision 6. - Signed Laneways Added. Final Issue | SD | 18.07.2013 |

AS CONSTRUCTED

CLIENT: Civil Contractors

SITE ADDRESS:
Woodlands Stages 4 & 5
Bunya Way Andergrove














Drawing Name:
Stormwater Longsections
Stage 5

Horizontal Datum: MGA PSM 67982

Vertical Datum: AHD 8.262

Mackay Regional Council

AS CONSTRUCTED LEGEND

-  LIGHT POLE
-  POWER POLE
-  POWER BOX
-  TELSTRA PIT
-  SEWER MANHOLE
-  GULLY GRATE
-  STORMWATER MANHOLE
-  WATER TAPPING BAND
-  FIRE HYDRANT
-  STOP VALVE
-  WATER METER
-  WATER SERVICE POINT 32mm MDPE
-  STORMWATER LINE
- SEWER LINE All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

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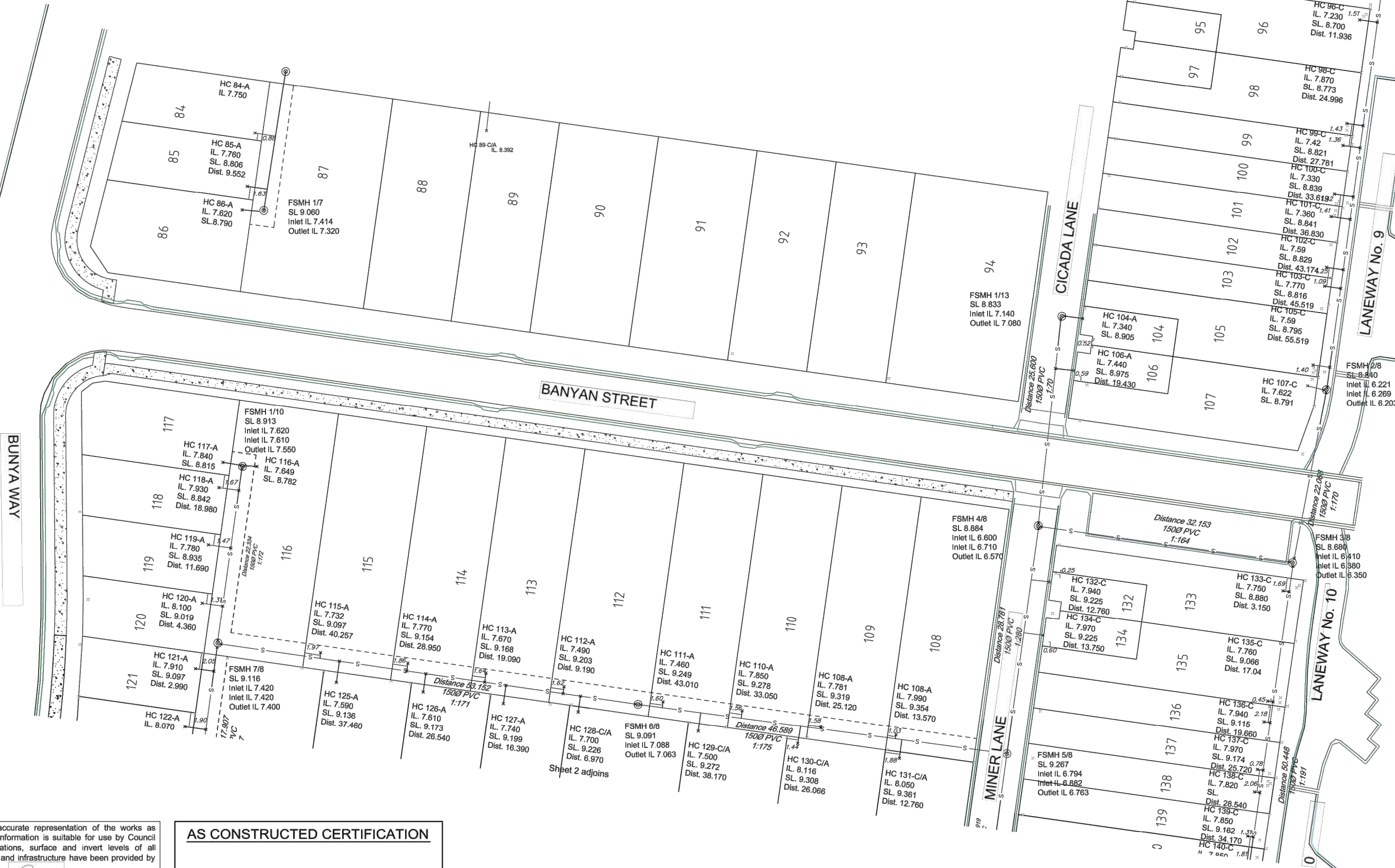
VISION SURVEYS QUEENSLAND

33 River Street, Mackay
PO Box 1730 Mackay 4740
Phone: 07 4961 0760
Email: mackay@visionsurveysqld.com.au

A1 Date: 18.07.2013
Scale: 1:1000H 1:100V
Surveyor: SD
Dwg Number: 12375 - ASC1 - Rev A
Sheet 8 of 18



Existing
SL. 8.43



This drawing is an accurate representation of the works as constructed and the information is suitable for use by Council and others. The locations, surface and invert levels of all as-constructed works and infrastructure have been provided by Vision Surveys (QLD).

Registered Surveyor / Surveying Associate / Surveying Graduate
 Certified By: SAMANTHA DIVERS (5652)
 Date: 31 MAY 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:
 MATTHEW BEGGS RPEQ: 5555
 for and on behalf of BMD Consulting Pty Ltd

| Rev | Description | Drawn | Date |
|-----|--|-------|------------|
| A | Preliminary Drawing | SP | 8.02.2013 |
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| C | Asconstructed Drawing Revision 3 | SD | 11.04.2013 |
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| G | Asconstructed Drawing Revision 6 - Signed Laneways Added. Final Issue | SD | 18.07.2013 |

AS CONSTRUCTED
Drawing Name: Sewer Reticulation Stage 4
Client: Civil Contractors
Site Address: Woodlands Stages 4 & 5
 Bunya Way Andergrove
Horizontal Datum: MGA PSM 67982
Vertical Datum: AHD 8.262
Mackay Regional Council

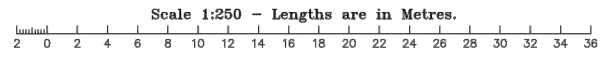
AS CONSTRUCTED LEGEND

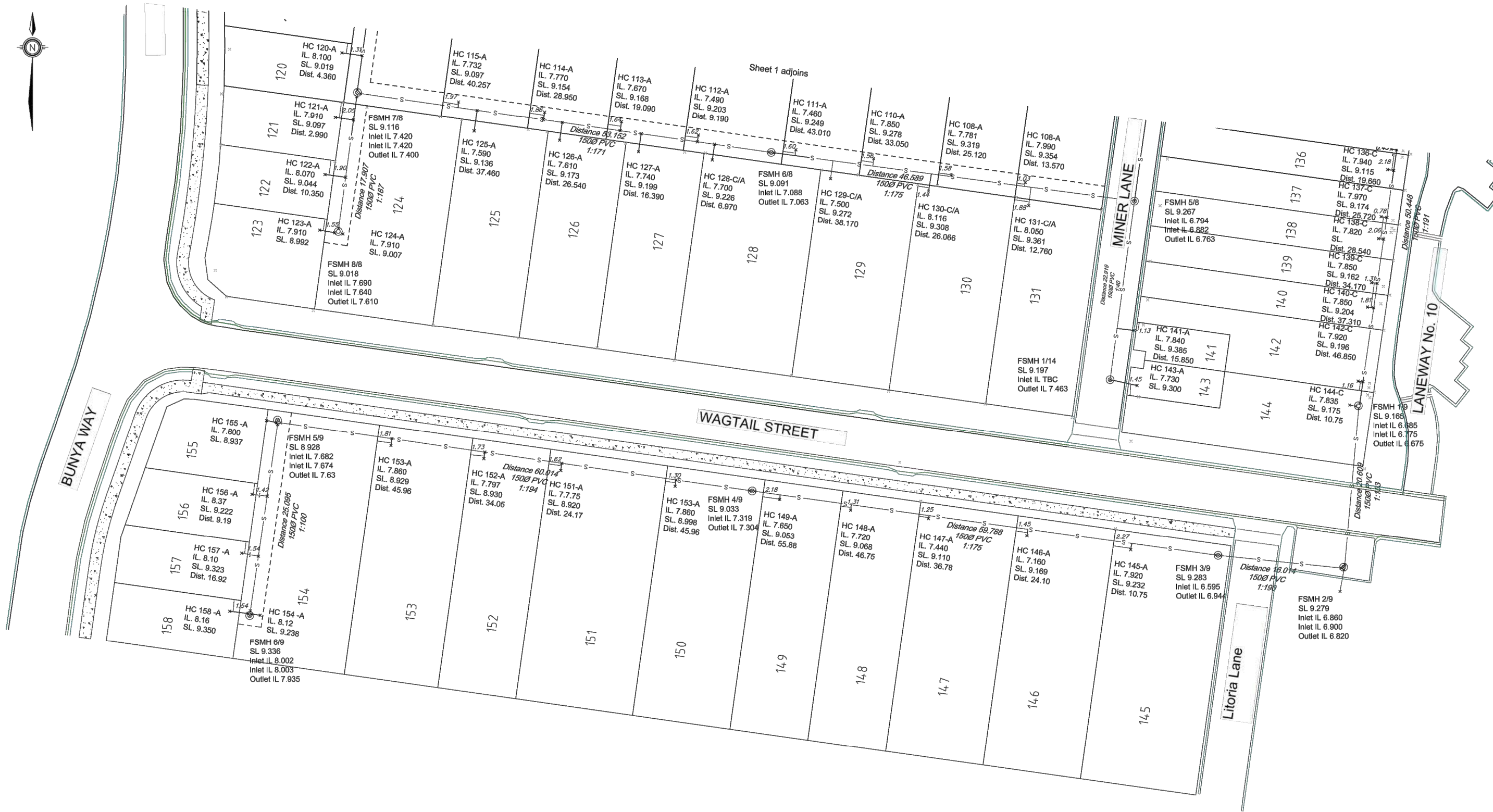
- LIGHT POLE
- POWER POLE
- POWER BOX
- TELSTRA PIT
- SEWER MANHOLE
- GULLY GRATE
- STORMWATER MANHOLE
- WATER TAPPING BAND
- FIRE HYDRANT
- STOP VALVE
- WATER METER
- WATER SERVICE POINT 32mm MDPE
- STORMWATER LINE
- SEWER LINE. All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

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VISION SURVEYS QUEENSLAND
 33 River Street, Mackay
 PO Box 1730 Mackay 4740
 Phone: (07) 4951 0769
 Email: mackay@visionsurveysqld.com.au

Date: 9.08.2013
 Scale: 1:250
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 9 of 18





This drawing is an accurate representation of the works as constructed and the information is suitable for use by Council and others. The locations, surface and invert levels of all as-constructed works and infrastructure have been provided by Vision Surveys (QLD).

Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date: 31 MAY 2013

AS CONSTRUCTED CERTIFICATION

APPROVED: 
 MATTHEW BEGGS RPEQ: 5555
 for and on behalf of BMD Consulting Pty Ltd 

| Rev | Description | Drawn | Date |
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| G | Asconstructed Drawing Revision 6 - Signed Laneways Added. Final Issue | SD | 18.07.2013 |

AS CONSTRUCTED













CLIENT: Civil Contractors
 SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

Drawing Name:
 Sewer Reticulation
 Stage 5

Horizontal Datum: MGA PSM 67982
 Vertical Datum: AHD 8.262

Mackay Regional Council

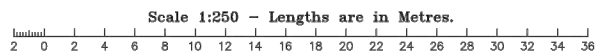
AS CONSTRUCTED LEGEND

-  LIGHT POLE
-  POWER POLE
-  TELSTRA PIT
-  SEWER MANHOLE
-  GULLY GRATE
-  STORMWATER MANHOLE
-  WATER TAPPING BAND
-  FIRE HYDRANT
-  STOP VALVE
-  WATER METER
-  WATER SERVICE POINT 32mm MDPE
-  STORMWATER LINE
- SEWER LINE All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

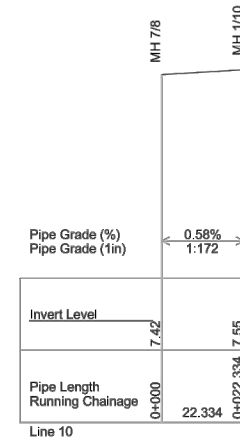
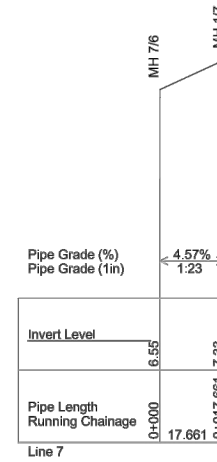
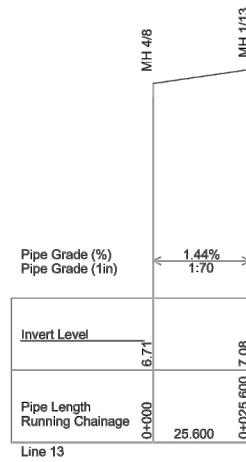
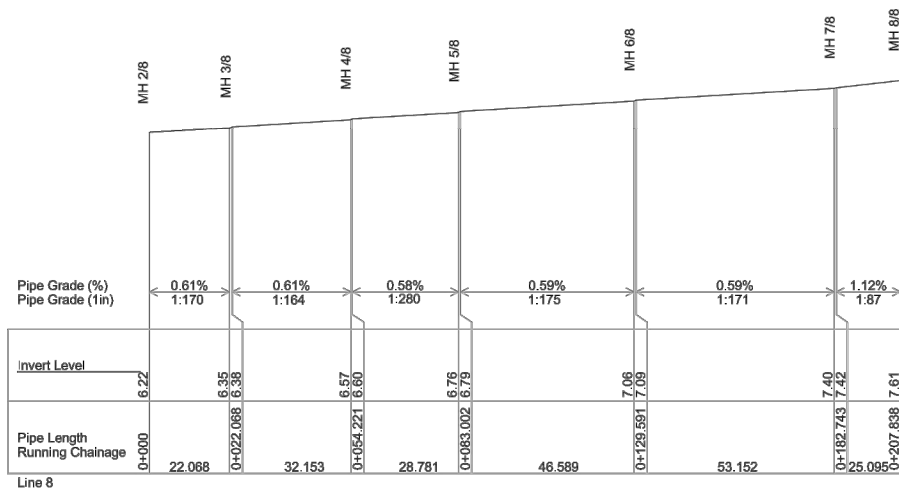
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33 River Street, Mackay
 PO Box 1730 Mackay 4740
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 Email: mackay@visionsurveys.com.au



Date: 28.08.2013
 Scale: 1:250
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 10 of 18



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Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date: 31 MAY 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:  RPEQ: 5555
 MATTHEW BEGGS
 for and on behalf of BMD Consulting Pty Ltd 

| Rev | Description | Drawn | Date |
|-----|---|-------|------------|
| A | Preliminary Drawing | SP | 8.02.2013 |
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| G | Asconstructed Drawing Revision 6 - Signed Laneways Added, Final Issue | SD | 18.07.2013 |














AS CONSTRUCTED

CLIENT: Civil Contractors
 SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

Drawing Name:
 Sewerage Reticulation
 Longsections
 Stage 4

Horizontal Datum: MGA PSM 67982
 Vertical Datum: AHD 8.262
 Mackay Regional Council

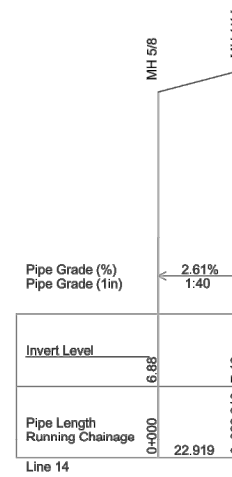
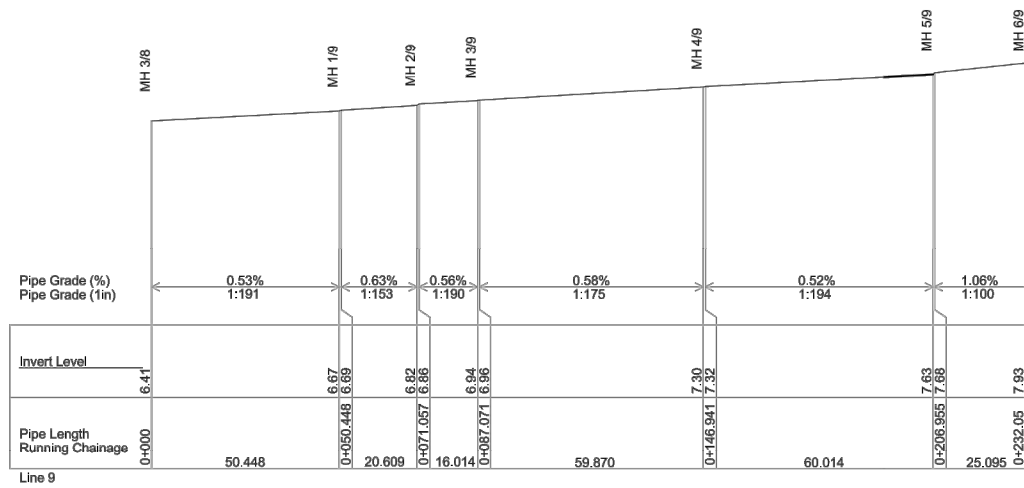
AS CONSTRUCTED LEGEND

-  LIGHT POLE
-  POWER POLE
-  POWER BOX
-  TELSTRA PIT
-  SEWER MANHOLE
-  GULLY GRATE
-  STORMWATER MANHOLE
-  WATER TAPPING BAND
-  FIRE HYDRANT
-  STOP VALVE
-  WATER METER
-  WATER SERVICE POINT 32mm MDPE
-  STORMWATER LINE
- SEWER LINE All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

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Date: 18.07.2013
 Scale: 1:1000H 1:100V
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 11 of 18



This drawing is an accurate representation of the works as constructed and the information is suitable for use by Council and others. The locations, surface and invert levels of all as-constructed works and infrastructure have been provided by Vision Surveys (QLD).

Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date: 31 MAY 2013

AS CONSTRUCTED CERTIFICATION

APPROVED: 
 MATTHEW BEGGS RPEQ: 5555
 for and on behalf of BMD Consulting Pty Ltd 

| Rev | Description | Drawn | Date |
|-----|--|-------|------------|
| A | Preliminary Drawing | SP | 8.02.2013 |
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| G | Asconstructed Drawing Revision 6. - Signed Laneways Added. Final Issue | SD | 18.07.2013 |

AS CONSTRUCTED














CLIENT: Civil Contractors
 SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

Drawing Name:
 Sewerage Reticulation
 Longsections
 Stage 5

Horizontal Datum: MGA PSM 67982
 Vertical Datum: AHD 8.262

Mackay Regional Council

AS CONSTRUCTED LEGEND

-  LIGHT POLE
-  POWER POLE
-  TELSTRA PIT
-  SEWER MANHOLE
-  GULLY GRATE
-  STORMWATER MANHOLE
-  WATER TAPPING BAND
-  FIRE HYDRANT
-  STOP VALVE
-  WATER METER
-  WATER SERVICE POINT 32mm MDPE
-  STORMWATER LINE
-  SEWER LINE All mains 150 PVC Laterals 100 PVC
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- WATER LINE

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Date: 18.07.2013
 Scale: 1:1000H 1:100V
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 12 of 18



Sheet 2 adjoins

WATER MAIN KEY

- 1 = 22.5 DEG BEND
- 2 = 45 DEG BEND
- 3 = TEE
- 4 = SV
- 5 = FH
- 6 = END CAP


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Registered Surveyor / Surveying Associate / Surveying Graduate


Certified By: SAMANTHA DIVERS (5652)

Date 26 SEPT 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:  RPEQ: 5555

MATTHEW BGGGS

for and on behalf of BMD Consulting Pty Ltd 

| Rev | Description | Drawn | Date |
|-----|---|-------|------------|
| A | Preliminary Drawing | SP | 8.02.2013 |
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| G | Asconstructed Drawing Revision 6 - Signed | SD | 18.07.2013 |
| H | Asconstructed Drawing Revision 7 - Signed | SD | 26.09.2013 |

AS CONSTRUCTED



CLIENT: Civil Contractors
SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

Drawing Name:
 Water Reticulation
 Stage 4

Horizontal Datum: MGA PSM 67982
Vertical Datum: AHD 8.262

Mackay Regional Council

AS CONSTRUCTED LEGEND

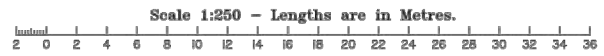
-  LIGHT POLE
-  POWER POLE
-  TELSTRA PIT
-  SEWER MANHOLE
-  GULLY GRATE
-  STORMWATER MANHOLE
-  WATER TAPPING BAND
-  FIRE HYDRANT
- STOP VALVE
- WATER METER
- WATER SERVICE POINT 32mm MDPE
- STORMWATER LINE
- SEWER LINE (All mains 150 PVC Laterals 100 PVC)
- ELECTRICAL LINE
- WATER LINE

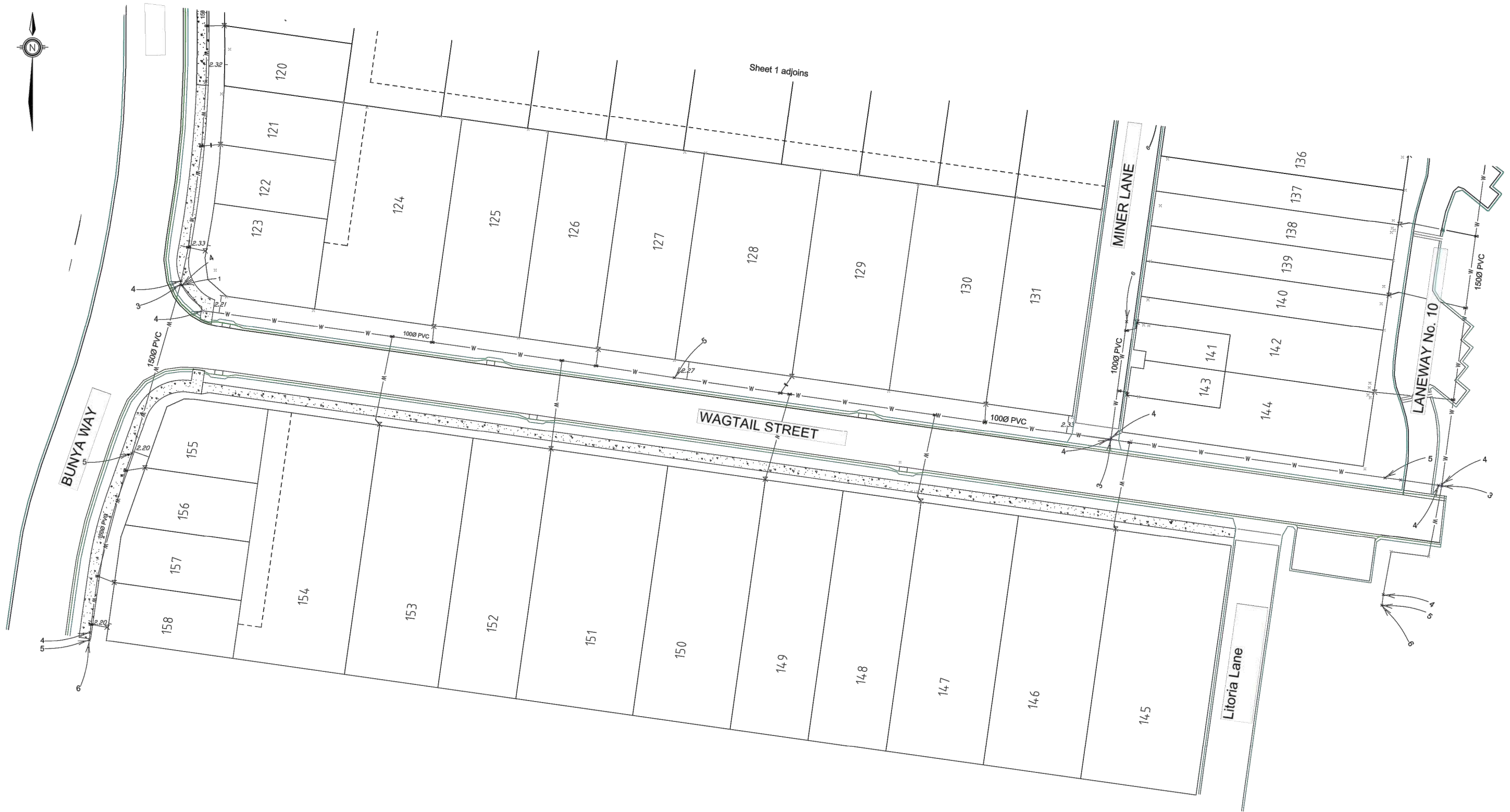
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33 River Street, Mackay
 PO Box 1730 Mackay 4740
 Phone: 07 4894 5060
 Email: mackay@visionsurveysql.com.au

AI Date: 26.09.2013
 Scale: 1:250
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 13 of 18





WATER MAIN KEY
 1 = 22.5 DEG BEND
 2 = 45 DEG BEND
 3 = TEE
 4 = SV
 5 = FH
 6 = END CAP

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Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date 26 SEPT 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:  RPEQ: 5555

MATTHEW BEGGS

for and on behalf of BMD Consulting Pty Ltd



| Rev | Description | Drawn | Date |
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| G | Asconstructed Drawing Revision 6. - Signed Laneways Added. Final Issue | SD | 18.07.2013 |
| H | Asconstructed Drawing Revision 7. - Signed Minor Amendments | SD | 26.09.2013 |

AS CONSTRUCTED

CLIENT: Civil Contractors
SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

Drawing Name:
 Water Reticulation
 Stage 5

Horizontal Datum: MGA PSM 67982
Vertical Datum: AHD 8.262
Mackay Regional Council

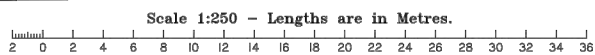
AS CONSTRUCTED LEGEND

- LIGHT POLE
- POWER POLE
- POWER BOX
- TELSTRA PIT
- SINKER MANHOLE
- GULLY GRATE
- STORMWATER MANHOLE
- WATER TAPPING BAND
- FIRE HYDRANT
- STOP VALVE
- WATER METER
- WATER SERVICE POINT 32mm MDPE
- STORMWATER LINE
- SINKER LINE: All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

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AI Date: 26.09.2013
 Scale: 1:250
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 14 of 18





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Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date 13 JUNE 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:  RPEQ: 5555
 MATTHEW BEGGS
 for and on behalf of BMD Consulting Pty Ltd 

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| D | Asconstructed Drawing Revision 4 | SD | 06.05.2013 |
| E | Asconstructed Drawing Revision 4 - Signed | SD | 31.05.2013 |
| F | Asconstructed Drawing Revision 5. - Signed | SD | 13.06.2013 |
| G | Asconstructed Drawing Revision 6. - Signed Laneways Added. Final Issue | SD | 18.07.2013 |

AS CONSTRUCTED

CLIENT: Civil Contractors
 SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

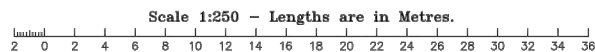
Drawing Name:
 Allotment Levels
 Stage 4

Horizontal Datum: MGA PSM 67982
 Vertical Datum: AHD 8.262
 Mackay Regional Council

AS CONSTRUCTED LEGEND

- LIGHT POLE
- POWER POLE
- POWER BOX
- TELSTRA PIT
- SINKER MANHOLE
- GULLY GRATE
- STORMWATER MANHOLE
- WATER TAPPING BAND
- FIRE HYDRANT
- STOP VALVE
- WATER METER
- WATER SERVICE POINT 32mm MDPE
- STORMWATER LINE
- SINKER LINE: All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

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Date: 18.07.2013
 Scale: 1:250
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 15 of 18



This drawing is an accurate representation of the works as constructed and the information is suitable for use by Council and others. The locations, surface and invert levels of all as-constructed works and infrastructure have been provided by Vision Surveys (QLD).

Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date 13 JUNE 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:  RPEQ: 5555
MATTHEW BEGGS
 for and on behalf of BMD Consulting Pty Ltd 

| Rev | Description | Drawn | Date |
|-----|---|-------|------------|
| A | Preliminary Drawing | SP | 8.02.2013 |
| B | Preliminary Drawing Revision 2 | SD | 12.03.2013 |
| C | Asconstructed Drawing Revision 3 | SD | 11.04.2013 |
| D | Asconstructed Drawing Revision 4 | SD | 06.05.2013 |
| E | Asconstructed Drawing Revision 4 - Signed | SD | 31.05.2013 |
| F | Asconstructed Drawing Revision 5 - Signed | SD | 13.06.2013 |
| G | Asconstructed Drawing Revision 6 - Signed Laneways Added, Final Issue | SD | 18.07.2013 |











AS CONSTRUCTED

CLIENT: Civil Contractors
SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

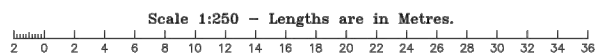
Drawing Name:
 Allotment Levels
 Stage 5

Horizontal Datum: MGA PSM 67982
Vertical Datum: AHD 8.262
Mackay Regional Council

AS CONSTRUCTED LEGEND

-  LIGHT POLE
-  POWER POLE
-  TELSTRA PIT
-  SEWER MANHOLE
-  GULLY GRATE
-  STORMWATER MANHOLE
-  WATER TAPPING BAND
-  FIRE HYDRANT
-  STOP VALVE
-  WATER METER
- WATER SERVICE POINT 32mm MDPE
- STORMWATER LINE
- SEWER LINE: All mains 150 PVC Laterals 100 PVC
- ELECTRICAL LINE
- WATER LINE

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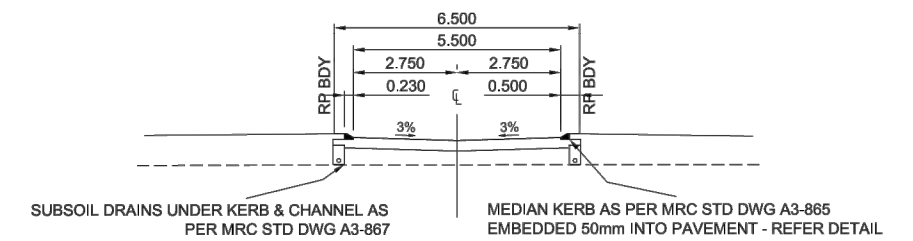
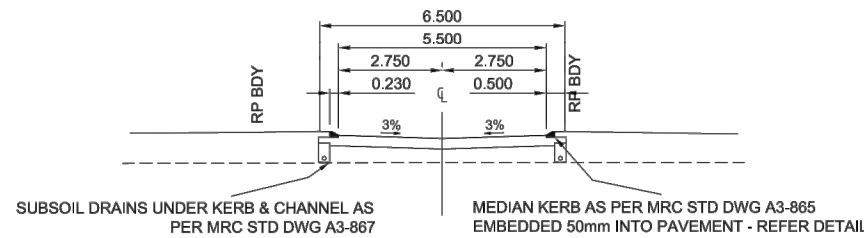
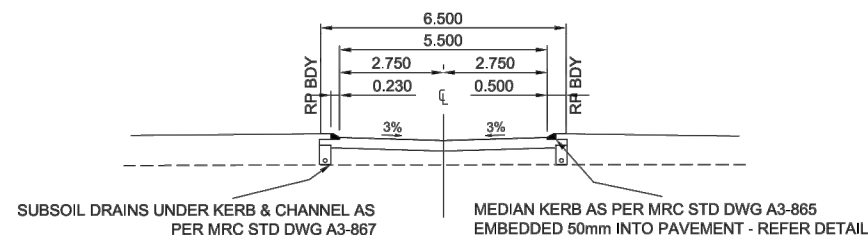
A1 Date: 18.07.2013
 Scale: 1:250
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 16 of 18



| LANEWAY 7 | |
|--------------------|----------------------|
| Actual CBR | 10 |
| Road Type | Minor Collector |
| Traffic ESA | 2 x 10 ⁴ |
| Pavement Thickness | (mm) |
| AC Surfacing | 30 DG10 |
| Primer Seal | 7 |
| Base Course | 125 |
| Sub Base Course | 125 |
| Lower Sub Base | 75 min |
| Kerb & Channel | Embedded Median Kerb |

| LANE WAY 6 | |
|--------------------|-------------------------------|
| Actual CBR | 10 |
| Road Type | Minor Collector |
| Traffic ESA | 2 x 10 ⁴ |
| Pavement Thickness | (mm) |
| AC Surfacing | 30 DG 10 |
| Primer Seal | 7 |
| Base Course | 150 |
| Sub Base Course | 150 |
| Lower Sub Base | 150 min |
| Kerb & Channel | Mountable + M6 Edge Restraint |

| LANE WAY 8 | |
|--------------------|-------------------------------|
| Actual CBR | 10 |
| Road Type | Minor Collector |
| Traffic ESA | 2 x 10 ⁴ |
| Pavement Thickness | (mm) |
| AC Surfacing | 30 DG 10 |
| Primer Seal | 7 |
| Base Course | 150 |
| Sub Base Course | 150 |
| Lower Sub Base | 150 min |
| Kerb & Channel | Mountable + M6 Edge Restraint |



| Station | Centreline | LIP LHS | LIP RHS |
|---------|------------|---------|---------|
| 0.00 | 8.79 | 8.79 | 8.78 |
| 12.95 | 8.84 | 8.12 | 8.12 |
| 13.50 | 8.88 | 8.15 | 8.17 |
| 35.51 | 9.25 | 9.27 | 9.25 |
| 42.54 | 9.23 | 9.25 | 9.23 |
| 55.51 | 9.19 | 9.27 | 9.25 |
| 63.03 | 9.13 | 9.09 | 9.13 |

LANEWAY 7
Scale Horizontal 1:1000 Vertical 1:100

| Station | Centreline | LIP LHS | LIP RHS |
|---------|------------|---------|---------|
| 40.00 | 8.74 | 8.23 | 8.82 |
| 50.938 | 8.81 | 8.88 | 8.89 |
| 60.00 | 8.80 | 8.87 | 8.87 |
| 67.501 | 8.80 | 8.80 | 8.78 |

LANEWAY 6
Scale Horizontal 1:1000 Vertical 1:100

| Station | Centreline | LIP LHS | LIP RHS |
|---------|------------|---------|---------|
| 4.5 | 9.20 | 9.20 | 9.19 |
| 20.00 | 9.17 | 9.25 | 9.23 |
| 30.725 | 9.10 | 9.18 | 9.17 |
| 40.00 | 9.04 | 9.12 | 9.13 |

LANEWAY 8
Scale Horizontal 1:1000 Vertical 1:100

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Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date: 31 MAY 2013

AS CONSTRUCTED CERTIFICATION

APPROVED:

Matt Beggs
MATTHEW BEGGS

RPEQ: 5555

for and on behalf of BMD Consulting Pty Ltd



| Rev | Description | Drawn | Date |
|-----|--|-------|------------|
| A | Preliminary Drawing | SP | 8.02.2013 |
| B | Preliminary Drawing Revision 2 | SD | 12.03.2013 |
| C | Asconstructed Drawing Revision 3 | SD | 11.04.2013 |
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AS CONSTRUCTED

CLIENT: Civil Contractors
SITE ADDRESS:
Woodlands Stages 4 & 5
Bunya Way Andergrove

Drawing Name:
Pavement Design
Typical Cross Section
Long Sections

Horizontal Datum: MGA PSM 67982
Vertical Datum: AHD 8.262

Mackay Regional Council

AS CONSTRUCTED LEGEND

| | |
|---|--|
| ○ | LIGHT POLE |
| □ | POWER POLE |
| □ | POWER BOX |
| ○ | TELSTRA PIT |
| ○ | SEWER MANHOLE |
| □ | GULLY GRATE |
| ○ | STORMWATER MANHOLE |
| ○ | WATER TAPPING BAND |
| ○ | FIRE HYDRANT |
| ○ | STOP VALVE |
| ○ | WATER METER |
| ○ | WATER SERVICE POINT 32mm MDPE |
| — | STORMWATER LINE |
| — | SEWER LINE. All mains 150 PVC Laterals 100 PVC |
| — | ELECTRICAL LINE |
| — | WATER LINE |

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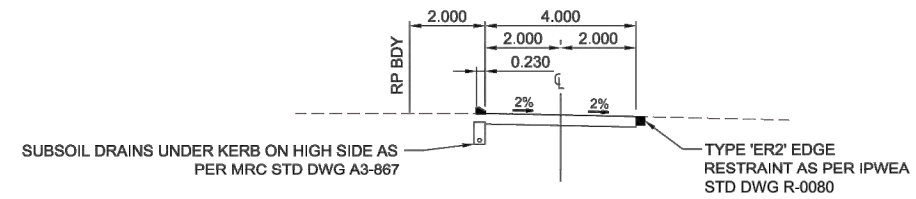
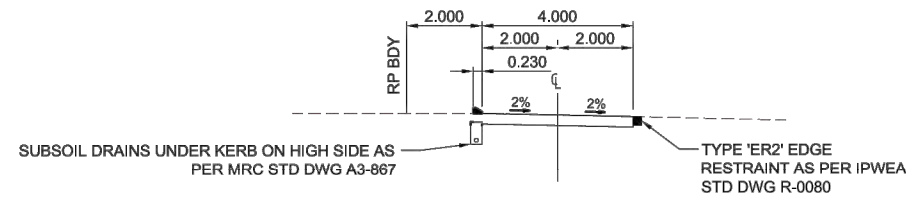
Date: 18.07.2013
Scale: NTS
Surveyor: SD
Dwg Number: 12375 - ASC1 - Rev A
Sheet 17 of 18

Scale 1:250 - Lengths are in Metres.



| LANEWAY 9 | |
|--------------------|--|
| Actual CBR | 7 |
| Road Type | Minor Collector |
| Traffic ESA | 2 x 10 ⁴ |
| Pavement Thickness | (mm) |
| AC Surfacing | 30 DG10 |
| Primer Seal | 7 |
| Base Course | 125 |
| Sub Base Course | 125 |
| Lower Sub Base | 75 min |
| Kerb & Channel | Embedded Median Kerb + Edge Restraint |

| LANEWAY 10 | |
|--------------------|--|
| Actual CBR | 7 |
| Road Type | Minor Collector |
| Traffic ESA | 2 x 10 ⁴ |
| Pavement Thickness | (mm) |
| AC Surfacing | 30 DG10 |
| Primer Seal | 7 |
| Base Course | 125 |
| Sub Base Course | 125 |
| Lower Sub Base | 75 min |
| Kerb & Channel | Embedded Median Kerb + Edge Restraint |



| | 0.588 | 6.19 | 10.484 | 15.629 | 20 | 24.282 | 40.00 | 40.029 | 50.917 |
|------------|-------|------|--------|--------|------|--------|-------|--------|--------|
| CENTRELINE | 8.67 | 8.61 | 8.63 | 8.67 | 8.70 | 8.69 | 8.67 | 8.62 | 8.52 |
| LIP LHS | | 8.67 | 8.69 | 8.71 | 8.73 | 8.73 | 8.67 | 8.67 | |
| LIP RHS | 8.56 | 8.59 | 8.61 | 8.64 | 8.67 | 8.68 | 8.56 | 8.56 | |
| Station | | | | | | | | | |

LANEWAY 9
Scale Horizontal 1:1000 Vertical 1:100

| | 1.843 | 4.182 | 8.184 | 19.898 | 20.00 | 23.589 | 32.722 | 40.00 | 42.748 | 48.671 | 54.459 | 60.00 | 62.988 | 68.988 |
|------------|-------|-------|-------|--------|-------|--------|--------|-------|--------|--------|--------|-------|--------|--------|
| CENTRELINE | 8.63 | 8.63 | 8.67 | 8.81 | 8.81 | 8.84 | 8.84 | 8.88 | 8.93 | 8.98 | 8.98 | 8.95 | 8.92 | 8.82 |
| LIP LHS | | 8.59 | 8.62 | 8.64 | 8.64 | 8.65 | 8.65 | 8.68 | 8.71 | 8.77 | 8.84 | 8.90 | 8.90 | 8.85 |
| LIP RHS | 8.67 | 8.70 | 8.73 | 8.84 | 8.85 | 8.86 | 8.88 | 8.93 | 8.98 | 9.04 | 9.02 | 8.94 | 8.90 | 8.85 |
| Station | | | | | | | | | | | | | | |

LANEWAY 10
Scale Horizontal 1:1000 Vertical 1:100

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Registered Surveyor / Surveying Associate / Surveying Graduate

Certified By: SAMANTHA DIVERS (5652)

Date 31 MAY 2013

AS CONSTRUCTED CERTIFICATION

APPROVED: 
 MATTHEW BEGGS
 RPEQ: 5555
 for and on behalf of BMD Consulting Pty Ltd 

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| G | Asconstructed Drawing Revision 6 - Signed Laneways Added. Final Issue | SD | 18.07.2013 |

AS CONSTRUCTED

CLIENT: Civil Contractors
 SITE ADDRESS:
 Woodlands Stages 4 & 5
 Bunya Way Andergrove

Drawing Name:
 Pavement Design
 Typical Cross Section
 Long Sections

Horizontal Datum: MGA PSM 67982
 Vertical Datum: AHD 8.262

Mackay Regional Council

AS CONSTRUCTED LEGEND

- LIGHT POLE
- POWER POLE
- TELSTRA PIT
- SEWER MANHOLE
- GULLY GRATE
- STORMWATER MANHOLE
- WATER TAPPING BAND
- FIRE HYDRANT
- STOP VALVE
- WATER METER
- WATER SERVICE POINT 32mm MDPE
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A1 Date: 18.07.2013
 Scale: NTS
 Surveyor: SD
 Dwg Number: 12375 - ASC1 - Rev A
 Sheet 18 of 18

Scale 1:250 - Lengths are in Metres.
 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36