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<thead>
<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Title Page</td>
<td>1</td>
</tr>
<tr>
<td>Table of Contents</td>
<td>2</td>
</tr>
<tr>
<td>General Arrangement</td>
<td>3</td>
</tr>
<tr>
<td>Typical Pavement Profiles</td>
<td>4</td>
</tr>
<tr>
<td>Kerb Bedding Details</td>
<td>5</td>
</tr>
<tr>
<td>Layout Plans</td>
<td>6</td>
</tr>
<tr>
<td>Pavement Plans</td>
<td>10</td>
</tr>
<tr>
<td>Alingment Key Plan</td>
<td>14</td>
</tr>
<tr>
<td>Road Longitudinal</td>
<td>15</td>
</tr>
<tr>
<td>Drainage Plans</td>
<td>20</td>
</tr>
<tr>
<td>Pit Schedule</td>
<td>24</td>
</tr>
<tr>
<td>Setting Out Plan</td>
<td>25</td>
</tr>
<tr>
<td>Kerb Longitudinal Sections</td>
<td>35</td>
</tr>
<tr>
<td>Signs and Pavement Plan</td>
<td>55</td>
</tr>
<tr>
<td>Sign Schedule</td>
<td>59</td>
</tr>
<tr>
<td>Cross Sections</td>
<td>60</td>
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Towong Shire Council

Fixing Country Roads - Eskdale: Intersection Upgrades

General Arrangement

Notes

Tender Issue

 VicRoads Issue

Date

19-Dec-18

20-May-19
100mm "Class 2" F.C.R. compacted to MIN 98% MMDD or approved equivalent

150mm "Class 2" F.C.R. compacted to MIN 98% MMDD or approved equivalent

C170/14 Single Coat Seal

MIN. 75mm "Class 3" F.C.R. compacted to MIN 96% MMDD or approved equivalent

Where Semi-Mountable Type Kerb is used:
150mm Depth - Concrete shall be normal class N32 standard strength (32MPa at 28 days) grade complying requirements of AS1379. Refer to VicRoads Standard Specification 703 for requirements of concrete to be used in extrusion machines.

MIN. 75mm "Class 3" F.C.R. compacted to MIN 96% MMDD or approved equivalent

Where Barrier Type Kerb is used:
100mm Depth - Concrete shall be normal class N25 standard strength grade (25MPa at 28 days) grade complying requirements of AS1379. Refer to VicRoads Standard Specification 703 for requirements of concrete to be used in extrusion machines.

MIN. 75mm "Class 3" F.C.R. compacted to MIN 96% MMDD or approved equivalent

Typical Partial Depth Pavement

Typical Full Depth Pavement

Typical Concrete fill behind 'SM' & 'M' Kerbing

Typical Concrete fill behind B Kerbing
NOTES:

1. Refer to concrete AS. 2876-2000 concrete kerbs and channels for specific requirements.
2. Bedding to be compacted Class 3 F.C.R. Supplied by the contractor unless otherwise directed.
3. Concrete to be smooth trowelled finished on try and kerb.
4. Construction joints located - 2500mm maximum spacing.
   - 75mm minimum depth.
5. Eliminate 25mm bullnose on all positive pedestrian crossings.
6. Widths specified in cross sections are face (line) of kerb minimum.

Bedding to be compacted Class 3 F.C.R. supplied by the contractor unless otherwise directed.
Fixing Country Roads - Eskdale: Intersection Upgrades
Layout Plan 1

General Notes:
- All proposed works will be shown as per Typical Pavement Detail supplied in the sheet set unless otherwise specified.
- All surfacing materials will be installed as per VicRoads, T3910 and T3950.
- All drainage items, pipe sizes and lengths will be installed as per VicRoads, T3985.
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Fixing Country Roads - Eskdale: Intersection Upgrades
Layout Plan 2

Date 18-Dec-18

General Notes:

- DYBO required before all works commence.
- VicRoads Issue:
- 18-May-19

Towong Shire Council
Towrong Shire Council
Fixing Country Roads - Eskdale: Intersection Upgrades
Layout Plan 4

Tender Issue
28-Feb-19

Dial Before You Dig
Towrong Shire
Towrong Shire Council
546-548 Nepean Hwy, Towrong VIC 3755
Ph: (03) 5937 3177
Email: info@towrongshire.vic.gov.au
www.towrongshire.vic.gov.au

For information on planning, building and development in Towrong Shire, please visit our website www.towrongshire.vic.gov.au

Check the Local Government Gazette for the latest Notice of a Public Hearing in the Shire of Towrong

2020 - Version 2.5

Note:

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General Notes:

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Revisions

Date

Design

Drawn

Checked

Approved

Drawing No.

Figure 1.
General Notes:

- For all pavement work see Typical Pavement Detail Sheet supplied in this sheet set unless otherwise specified.
- For all kerb & channel work see Typical Kerb Detail Sheet supplied in this sheet set unless otherwise specified.
- For all pedestrian crossings, cross street types to be installed as per VicRoads T&D of 2022 and AS/NZS 2228.
- For all road sign changes use this sheet set.
- If used, road sign and pavement markings are to be installed as per VicRoads T&D of 2022 and AS/NZS 2228.
- Signs & Pavement Markings:
  - All sign installations, pavement markings to be installed as per VicRoads T&D of 2022 and AS/NZS 2228.
  - For all road sign changes use this sheet set.
  - If used, road sign and pavement markings are to be installed as per VicRoads T&D of 2022 and AS/NZS 2228.

Notes:

- DYBD required before all works commence.
- Where pipes are laid under rough or under stonework, soakaway wells with 150 mm C/C Class 2 required to HRHS, HS/PRDD.
- Landscaping:
  - All landscaping work to be completed by others.
  - All trees with planting.holes to be planted or filled with top soil.
  - All trees with planting.holes to be filled with top soil.

Notes:

- Tender Issue
- VicRoads Issue
- Date

Towong Shire Council
Fixing Country Roads - Eskdale: Intersection Upgrades
Pavement Plan 1

138/18

A3

10

DYBD required before all works commence.
General Notes:

- For all pavement work see Typical Pavement Detail sheet supplied in this sheet only unless otherwise specified (Refer to Plan).
- For all kerbs & Channel work see Typical Kerb/Channel sheet supplied in this sheet only unless otherwise specified.
- Sign & Pavement Markings:
  - All signs installation and/or markings to be installed at the Council's cost and executed as per Town Planners/Engineering requirements.
  - For all proposed signs see this plan. One Sign Schedule supplied in this sheet only unless otherwise specified.
- Drainage:
  - For all GIS data shown on the Schedule supplied in this sheet only unless otherwise specified.
  - Section levels to be determined on site with Towong Shire Engineer.
- Where pipe and/or conduit, backfill with 75% F.C. This is specified in F.B. Ref 3 to be completed by Vic Roads/HA/SH.
- Landscaping:
  - All landscaping work to be completed by Town.
  - All trees will be partially to face the main carriageway and to face off.

Notes:

- Tender Issue
- VicRoads Issue
- Scale: 1:400
- Date: 18-Dec-18
- Drawing No: 138/18

Title:

Fixing Country Roads - Eskdale: Intersection Upgrades

Pavement Plan 2

Towong Shire Council

Design:

Drawn:

Checked:

Approved:

[Signatures]

Length in Metres

11 A3
General Notes:
- Finished:
  - For all pavement works, the Pavement Detail sheet supplied in this sheet set applies unless otherwise specified.
  - For all Channel work, the Typical Road Profile sheet supplied in this sheet set applies unless otherwise specified.
  - Sign 1 Parameter Settings:
  - All sign installations shall be carried out in accordance with VicRoads and AS/NZS 1926.3
  - For all proposed signs on this layout, the Sign Schedule sheet supplied in this sheet set applies unless otherwise specified.
  - Drainage:
    - For all drainages, the Drainage Schedule sheet supplied in this sheet set applies unless otherwise specified.
    - Drain Levels shall be determined in consultation with Towong Shire Engineer.
    - Where pipe is laid under road or under drainages, backfill with VM / F.E. / C.D. 1 compacted to VicRoads specification.
  - Landscape:
    - All hard capping works to be completed by others.
    - All roads will be completed in concrete footpath and road base only.
Hatch line and level of existing seal where appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pit. Onsite adjustment of pit locations may be required to minimize damage to existing established trees.
Note:
Match line and level of existing seal where appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pits. Onsite adjustment of pit locations may be required to minimize damage to existing established trees.

Horizontal Scale: 1:1000
Vertical Scale: 1:1000
Note:
Mark line and level of existing road where appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pits. Optional adjustment of pit locations may be required to minimize damage to existing established trees.

Horizontal Scale: 1:1000
Vertical Scale: 1:1000
Note:
Match line and level of existing seal where appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pits. Onsite adjustment of pit locations may be required to minimize damage to existing established trees.

Horizontal Scale: 1:1000
Vertical Scale: 1:1000
Notes:
Match line and level of existing seal where appropriate, remove high and low points, where necessary to smooth profile and ensure low points drain to pits. Ongoing adjustment of pit locations may be required to minimize damage to existing established trees.

Horizontal Scale: 1:1000
Vertical Scale: 1:1000
Note
Match line and level of existing seal where appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pits. Onsite adjustment of pill locations may be required to minimize damage to existing established trees.

Horizontal Scale: 1:1000
Vertical Scale: 1:1000
Note:
Hatch line and level of existing soil when appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pits. Onsite adjustment of pit locations may be required to minimize damage to existing established trees.
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Legend for Schematic Diagram:
- All pipes to be PE-90HDPE unless otherwise specified.
- Existing pipes - Corrugated
drainage pipe.
- Proposed pipe - Class 3 Reinforced Concrete Pipe (RCP) with Rubber Ring joints.
- Existing pipe to be removed.

Finished Drawing
For discussion pur poses only
subject to client amendments
Jaw of Eagle Award
High grads - 10 year targets

Omeo Highway
Eskdale, Victoria 3701
Fixing Country Roads - Regional Roads

Drainage Plan

Tawong Shire Council

Notes
Revisions
Date

Construction Issue
"4"
10-Apr-19

VicRoads
"E"
20-May-19

DIAL BEFORE YOU DIG
www.10000.com.au

D100 required before all works commence.

Drawing No

Tawongshire

13818

1/50

23

43

Units

Metre
### General Notes:
- For all pits, see the Pit Schedule sheet supplied in this sheet set unless otherwise specified.
- Invert levels to be determined on site with Towong Shire Council Engineer.

### Layout Plan 1

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### Notes
- Tender Issue: 5
- VicRoads Issue: 5
- Date: 19-Dec-18
- Towong Shire Council
- Fixing Country Roads - Eskdale: Intersection Upgrades
- Pit Schedule
Note:
Match line and level of existing seal where appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pits. Onsite adjustment of pit locations may be required to minimize damage to existing established trees.
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K17 - Omeo Highway/Service Road 2
Horizontal Scale: 1:200
Vertical Scale: 1:25
Note:
Match line and level of existing seal where appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pits. Onsite adjustment of pit locations may be required to minimize damage to existing established trees.
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K18 (Q3) - Omeo Highway/Service Road 2
Horizontal Scale: 1:2000
Vertical Scale: 1:25

Omeo Highway
Eskdale, Victoria 3701
Fixing Country Roads - Regional Roads

Towong Shire Council

Design
Drawn
Checked
Approved

Sheet Size: A3

38/18

Finished Drawing
Not for construction purposes only

Note: For viewing purposes only

Subject to change without notice

Date: 30-Apr-19
Notices: 4-9-19

Construction Issue 4
VictRoads Issue 8

Units: Metres

Sheet No: 54
Notes

Revisions

Designed

Drawn

Checked

Length in Metres

Drawing No.

SH

138/18

A3

North

1:500

Approved

Scale

JH/HA/SH

Fixing Country Roads - Eskdale
Intersection Upgrades
Traffic Sign Plan - Layout 1

Towong Shire Council

Tender Issue

VicRoads Issue

S

S

19-Dec-18

20-May-19

DIEAL BEFORE YOU DIG

www.1100.com.au

DYBD required before all works commence

General Notes:

• All signs to be installed as shown on this plan or otherwise directed by a VicRoads (Along One Way Highways) and Towong Shire (council Engineer) along all other roads.

• Proposed speed signs subject to VicRoads approval.

• All signs to be compliant with all relevant VicRoads Technical Engineering Manuals; commentary on AS1742.2, AS1742.4 and AS1742.11.

• Signs sizes are as follows:
  P1, R2 = A
  R1 = B

• All Parking signs to be P11 type UDO as per AS1742.11.

• All Guide signs subject to VicRoads Comment.
General Notes:
- All signs to be installed as shown on this plan or otherwise directed by VicRoads (along Omeo Highway) and Towong Shire Council Engineer (along all other roads).
- Proposed speed signs subject to VicRoads approval.
- All signs to be compliant with all relevant VicRoads Technical Engineering Manuals, commentary on AS1742.2, AS1742.4 and AS1742.21.
- Signs sizes are as follows:
  - R1, R2 & A
  - P1 & B
- All Parking signs to be P11 type UD0 as per AS1742.21.
- All Guide signs subject to VicRoads Comment.
**General Notes:**
- All signs to be installed as shown on this plan or otherwise directed by a VicRoads Officer (along with other roads).
- Proposed speed signs subject to VicRoads approval.
- All signs to be compliant with all relevant VicRoads Technical Engineering Manuals commentary on AS1742, AS1742.4 and AS1742.11.
- Signs sizes are as follows:
  - S1, S2, S3
  - S4, S5
- All parking signs to be P1 type UD0 as per AS1742.11.
- All guide signs subject to VicRoads's Comment.

**Notes**
- DYBD required before all works commence

**Date**
- 19-Dec-18
- 20-May-19

**Towong Shire Council**

**Drawing No.**
138/18

**Scale**
1:500

**Length in Metres**

**Traffic Sign Plan - Layout 3**

**Fixing Country Roads - Eskdale Intersection Upgrades**
General Notes:
- All signs to be installed as shown on this plan or otherwise directed by a VicRoads (along Otway Highway) and Towong Shire Council Engineer (along all other roads).
- Proposed speed signs subject to VicRoads approval.
- All signs to be compliant with all relevant VicRoads Technical Engineering Manuals commentary on AS1742.2, AS1742.4 and AS1742.11.
- Signs sizes are as follows:
  - P1, P2 = A
  - P4 = B
- All parking signs to be P1 type UDO as per AS1742.11.
- All guide signs subject to VicRoads comment.

Notes
- Tender Issue
- VicRoads Issue
- Date
  - 19-Dec-18
  - 20-May-19

Traffic Sign Plan - Layout 4
Towong Shire Council
Fixing Country Roads - Eskdale: Intersection Upgrades
Drawn
- [Date]
- [Signature]
- [Title]

Tender Issue
- [Date]
- [Signature]
- [Title]

VicRoads Issue
- [Date]
- [Signature]
- [Title]

Approved
- [Date]
- [Signature]
- [Title]
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<tr>
<th>Description</th>
<th>Code</th>
<th>Size</th>
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<tbody>
<tr>
<td>Give Way</td>
<td>R1-2</td>
<td>A</td>
<td>3</td>
</tr>
<tr>
<td>40km/h</td>
<td>R4-40</td>
<td>A</td>
<td>2</td>
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<tbody>
<tr>
<td>Give Way</td>
<td>R1-2</td>
<td>A</td>
<td>4</td>
</tr>
<tr>
<td>40km/h</td>
<td>R4-40</td>
<td>A</td>
<td>4</td>
</tr>
<tr>
<td>Disabled Parking</td>
<td>As per AS1742.1 and 2890.5</td>
<td>A</td>
<td>4</td>
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</thead>
<tbody>
<tr>
<td>Give Way</td>
<td>R1-2</td>
<td>A</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Description</th>
<th>Code</th>
<th>Size</th>
<th>QTY</th>
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</thead>
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<tr>
<td>Give Way</td>
<td>R1-2</td>
<td>A</td>
<td>1</td>
</tr>
<tr>
<td>No Left Turn</td>
<td>R2-6(L)</td>
<td>A</td>
<td>1</td>
</tr>
<tr>
<td>No Right Turn</td>
<td>R2-6(R)</td>
<td>A</td>
<td>1</td>
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<tr>
<td>One-Directional Hazard Marker</td>
<td>D4-2-1</td>
<td>AS1743</td>
<td>1</td>
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<tr>
<td>Guide Parking Sign (Left)</td>
<td>G7-3-1(L)</td>
<td>A</td>
<td>1</td>
</tr>
<tr>
<td>Guide Parking Sign (Right)</td>
<td>G7-3-1(R)</td>
<td>A</td>
<td>1</td>
</tr>
<tr>
<td>Disabled Parking</td>
<td>As per AS1742.1 and 2890.5</td>
<td>A</td>
<td>2</td>
</tr>
</tbody>
</table>

Note: DYBD required before all works commence.
Notes:
- Match line and level of existing seal where appropriate.
- Remove high and low points where necessary to smooth profile and ensure low points drain to pits. Unequal adjustment of pit locations may be required to minimize damage to existing established trees.

Horizontal Scale: 1:8000
Vertical Scale: 1:8000
Note:
Match line and level of existing seal where appropriate, remove high and low points where necessary to smooth profile and ensure low points drain to pits. Intrafit adjustment of pit locations may be required to minimize damage to existing established frays.

Horizontal Scale: 1:50
Vertical Scale: 1:100
Note:
Match the rise and level of existing seal where appropriate, remove high and low points. Where necessary to smooth profiles and ensure low points drain to pits, onsite adjustment of pit locations may be required to minimize damage to existing established trees.

Horizontal Scale: 1:1000
Vertical Scale: 1:1000
Note:
Hatch line and level of existing seal where appropriate, remove high and low points, where necessary to smooth profile and ensure low points drain to pits. Onsite adjustment of pit locations may be required to minimize damage to existing established trees.

Horizontal Scale: 1:1000
Vertical Scale: 1:1000
NOTES:
1. Refer to concrete AS. 2876-2000 concrete kerbs and channels for specific requirements.
2. Refer to Austroads Guide to Road Design Part 3: Geometric Design for the recommended use of kerbs and channels.
3. Concrete shall be class N25 standard strength grade complying with the requirements of AS. 1379. Refer to VicRoads standard specification 703 for requirements of concrete to be used in extrusion machines.
4. Bedding to be compacted Class 3 F.C.R. Supplied by the contractor unless otherwise directed. (Refer to IDM SD110)
5. Increase overall kerb profile (Depth of concrete):
   5.1. 80mm for commercial properties
   5.2. 80mm with L8TM trench mesh for industrial properties (mesh to have 40mm cover).
6. Concrete sponge finished on layback.
7. Concrete to be smooth trowelled finished on try and kerb.
8. Construction joints located:
   - 2500mm maximum spacing
   - 75mm minimum depth
9. Eliminate 25mm bullnose on all positive pedestrian crossings
10. Widths specified in cross sections are face (line) of kerb minimum.
11. Minimum concrete strength to be N25, 25MPa at 28 days
12. Line of kerb is used to determine carriageway width.
NOTES:
1. Refer to concrete AS. 2876–2000 concrete kerbs and channels for specific requirements.
2. Refer to Austroads Guide to Road Design Part 3: Geometric Design for the recommended use of kerbs and channels.
3. Concrete shall be class N32 standard strength grade complying with the requirements of AS. 1379. Refer to VicRoads standard specification 703 for requirements of concrete to be used in extrusion machines.
4. Bedding to be compacted Class 3 F.C.R. supplied by the contractor unless otherwise directed. (Refer to IDM SD110)
5. Increase overall kerb profile (Depth of concrete)
   5.1. 80mm for commercial properties
   5.2. 80mm with L8TM trench mesh for industrial properties (mesh to have 40mm cover).
6. Concrete sponge finished on layback.
7. Concrete to be smooth trowelled finished on try and kerb.
8. Construction joints located - 2500mm maximum spacing
   - 75mm minimum depth
9. Eliminate 25mm bullnose on all positive pedestrian crossings
10. Widths specified in cross sections are face (line) of kerb minimum.
11. Minimum concrete strength to be N32, 32MPa at 28 days
12. Line of kerb is used to determine carriageway widths

Typical Roadway Raised Median

NOTES:
1. Refer to concrete AS. 2876–2000 concrete kerbs and channels for specific requirements.
2. Refer to Austroads Guide to Road Design Part 3: Geometric Design for the recommended use of kerbs and channels.
3. Concrete shall be class N32 standard strength grade complying with the requirements of AS. 1379. Refer to VicRoads standard specification 703 for requirements of concrete to be used in extrusion machines.
4. Bedding to be compacted Class 3 F.C.R. supplied by the contractor unless otherwise directed. (Refer to IDM SD110)
5. Increase overall kerb profile (Depth of concrete)
   5.1. 80mm for commercial properties
   5.2. 80mm with L8TM trench mesh for industrial properties (mesh to have 40mm cover).
6. Concrete sponge finished on layback.
7. Concrete to be smooth trowelled finished on try and kerb.
8. Construction joints located - 2500mm maximum spacing
   - 75mm minimum depth
9. Eliminate 25mm bullnose on all positive pedestrian crossings
10. Widths specified in cross sections are face (line) of kerb minimum.
11. Minimum concrete strength to be N32, 32MPa at 28 days
12. Line of kerb is used to determine carriageway widths
Typical Approach/Departure Terminal

Fixing Country Roads - Eskdale: Intersection Upgrades

Towong Shire Council

Notes

Revisions

Date

19-Dec-18

20-May-19

Tender Issue

VicRoads Issue

Signed

Dial Before You Dig

DYBO required before all works commence

Precautions and caveats to be considered upon installation

Length in Metres

Drawing No. 138/18

A3

Scale 1:50

Approved

Towong Shire Council

Design

Drawn

Checked

69

1:50

Length in Metres
NOTES:
1. Pit to be constructed in 2 stages. Stage 2-Top 500mm of pit in conjunction with kerb and channel.
2. Where pit at low point construct ∅100mm P.V.C. pipe with construction works to drain water from pavement.
3. At low point transition 600mm both sides.
4. Concrete strength F.C. = 25MPa (MIN at 28 days).
5. Fiberglass pit lids with EA frame and lightweight locking lid or approved equivalent constructed and installed as per AS3996 may be used instead of concrete.
6. Where no subsoil drain installed, or where gravel backfill is used, or where expansive clays are present, install 1m long subsoil drain at the bottom of the pit.

General Notes:
- Drainage: For all pits see the Pit Schedule sheet supplied in this sheet set unless otherwise specified.
- Invert levels to be determined on site with Towong Shire Engineer.
General Notes:

- Drainage: For all pits see the Pit Schedule sheet supplied in this sheet set unless otherwise specified.
- Invert levels to be determined on site with Towong Shire Engineer.

Towong Shire Council
Fixing Country Roads - Eskdale: Intersection Upgrades
Catch Drain Over Pipe Detail

Notes

- Tender Issue: 6
- VicRoads Issue: 6
- 19-Dec-18
- 20-May-19

Drawing No. 138/18

Scale 1:30
Length in Millimetres

Dial Before You Dig
Yes
www.1-1-0.com.au

JH/HA/SH
Approved

Towong Shire

Approved
Stevens High

Designed
Drawn
Checked