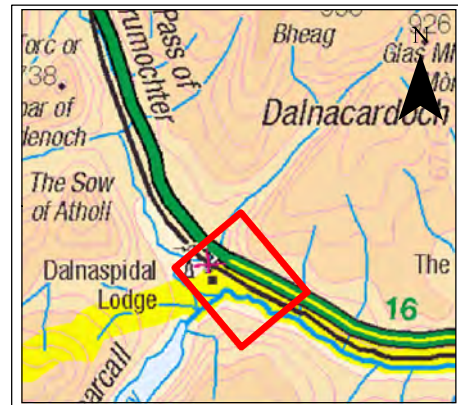
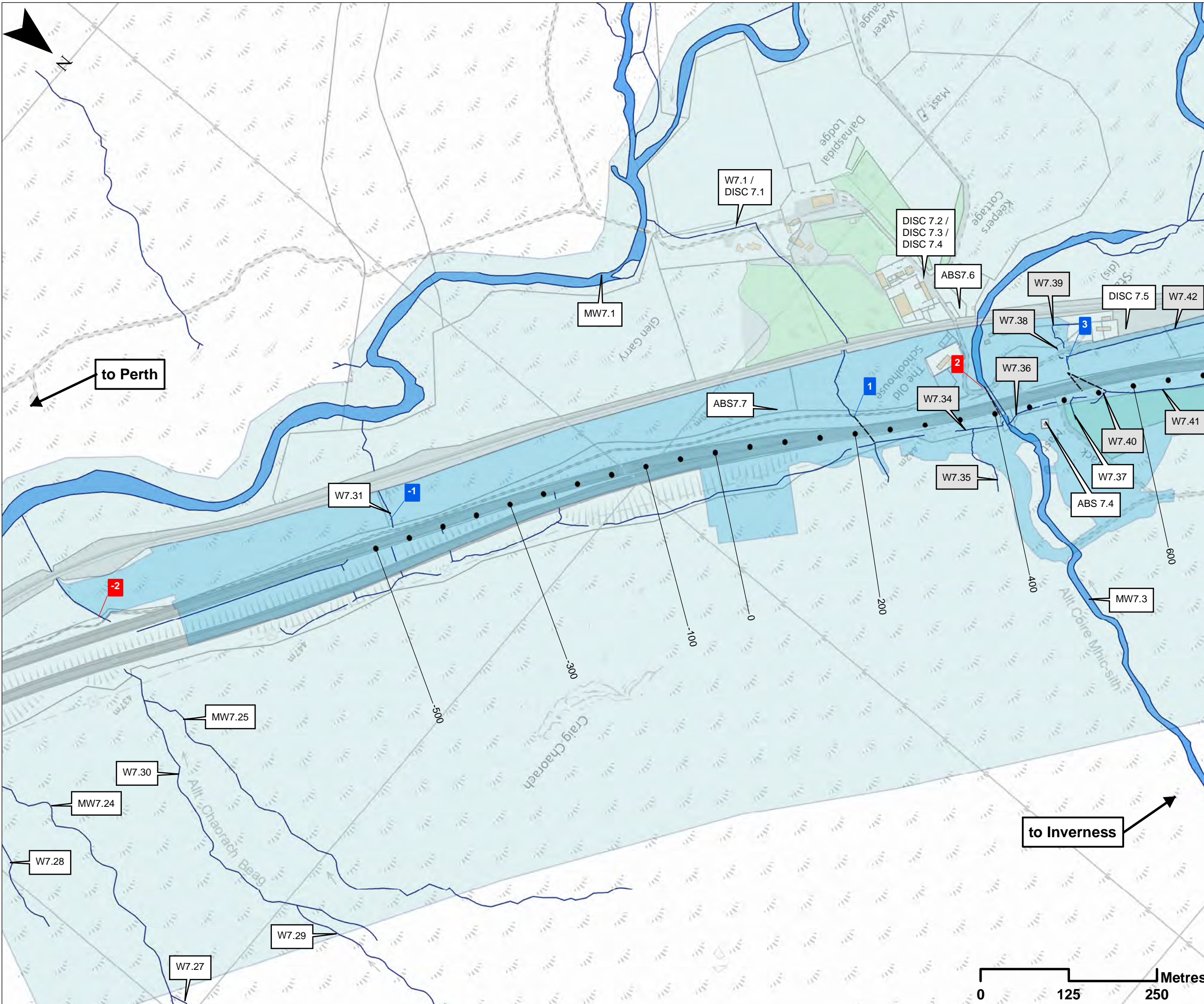


Road Drainage and the Water Environment

| Drawing No. | Drawing Type | Drawing Title | Projectwise Drawing Reference | Software |
|-------------|-----------------|--|-------------------------------------|----------|
| 11.1 | BASELINE PLAN | WATER FEATURES SURVEY (chainage -500 to 600) | A9P07-CFJ-EWE-L_ML000_ZZ-DR-EN-0001 | GIS |
| 11.2 | BASELINE PLAN | WATER FEATURES SURVEY (chainage 600 to 2200) | A9P07-CFJ-EWE-L_ML006_ZZ-DR-EN-0001 | GIS |
| 11.3 | BASELINE PLAN | WATER FEATURES SURVEY (chainage 2200 to 3800) | A9P07-CFJ-EWE-L_ML022_ZZ-DR-EN-0001 | GIS |
| 11.4 | BASELINE PLAN | WATER FEATURES SURVEY (chainage 3800 to 5400) | A9P07-CFJ-EWE-L_ML038_ZZ-DR-EN-0001 | GIS |
| 11.5 | BASELINE PLAN | WATER FEATURES SURVEY (chainage 3800 to 7000) | A9P07-CFJ-EWE-L_ML038_ZZ-DR-EN-0002 | GIS |
| 11.6 | BASELINE PLAN | WATER FEATURES SURVEY (chainage 7000 to 8600) | A9P07-CFJ-EWE-L_ML070_ZZ-DR-EN-0001 | GIS |
| 11.7 | BASELINE PLAN | WATER FEATURES SURVEY (chainage 8600 to 9741) | A9P07-CFJ-EWE-L_ML086_ZZ-DR-EN-0001 | GIS |
| 11.8 | BASELINE PLAN | CATCHMENT BOUNDARIES OVERVIEW | A9P07-CFJ-EWE-L_ZZZZZ_ZZ-DR-EN-0001 | GIS |
| 11.11 | BASELINE PLAN | FLOOD EXTENTS EXISTING (PRE-DEVELOPMENT) | A9P07-CFJ-EWE-L_ZZZZZ_ZZ-DR-EN-0004 | GIS |
| 11.12 | ASSESSMENT PLAN | FLOOD EXTENTS EXISTING (PRE-DEVELOPMENT) (chainage -500 to 600) | A9P07-CFJ-EWE-L_ML000_ZZ-DR-EN-0002 | GIS |
| 11.13 | ASSESSMENT PLAN | FLOOD EXTENTS EXISTING (PRE-DEVELOPMENT) (chainage 600 to 2200) | A9P07-CFJ-EWE-L_ML006_ZZ-DR-EN-0002 | GIS |
| 11.14 | ASSESSMENT PLAN | FLOOD EXTENTS EXISTING (PRE-DEVELOPMENT) (chainage 2200 to 3800) | A9P07-CFJ-EWE-L_ML022_ZZ-DR-EN-0002 | GIS |
| 11.15 | ASSESSMENT PLAN | FLOOD EXTENTS EXISTING (PRE-DEVELOPMENT) (chainage 3800 to 5400) | A9P07-CFJ-EWE-L_ML038_ZZ-DR-EN-0003 | GIS |
| 11.16 | ASSESSMENT PLAN | FLOOD EXTENTS EXISTING (PRE-DEVELOPMENT) (chainage 3800 to 7000) | A9P07-CFJ-EWE-L_ML038_ZZ-DR-EN-0004 | GIS |
| 11.17 | ASSESSMENT PLAN | FLOOD EXTENTS EXISTING (PRE-DEVELOPMENT) (chainage 7000 to 8600) | A9P07-CFJ-EWE-L_ML070_ZZ-DR-EN-0002 | GIS |
| 11.18 | ASSESSMENT PLAN | FLOOD EXTENTS EXISTING (PRE-DEVELOPMENT) (chainage 8600 to 9741) | A9P07-CFJ-EWE-L_ML086_ZZ-DR-EN-0002 | GIS |
| 11.19 | ASSESSMENT PLAN | PROPOSED SCHEME MITIGATION (chainage -500 to 600) | A9P07-CFJ-EWE-L_ML000_ZZ-DR-EN-0003 | GIS |
| 11.20 | ASSESSMENT PLAN | PROPOSED SCHEME MITIGATION (chainage 600 to 2200) | A9P07-CFJ-EWE-L_ML006_ZZ-DR-EN-0003 | GIS |
| 11.21 | ASSESSMENT PLAN | PROPOSED SCHEME MITIGATION (chainage 2200 to 3800) | A9P07-CFJ-EWE-L_ML022_ZZ-DR-EN-0003 | GIS |
| 11.22 | ASSESSMENT PLAN | PROPOSED SCHEME MITIGATION (chainage 3800 to 5400) | A9P07-CFJ-EWE-L_ML038_ZZ-DR-EN-0005 | GIS |



Legend

- Detailed Study Area
- Wider Study Area
- Surface Water Features
- Existing Crossing
- ABS Abstraction
- DISC Discharge
- MW Major Watercourse
- W Minor Watercourse
- P Pond
- R Reservoir or Dam
- Major Watercourse Crossing
- Minor Watercourse Crossing

Further Information

Reference should be made to the Water Features Schedule (WFS) for detailed information on watercourses scoped-out of the assessment.

Assessed Features: White
Scoped-out Features: Grey

SCALE 1:5000

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|-----|------|-----------|-------------------|----|-----|
| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | EC |
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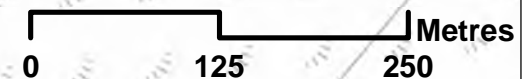
PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
BASELINE PLAN
DRAWING 11.1
WATER FEATURES SURVEY
chainage -500 to 600

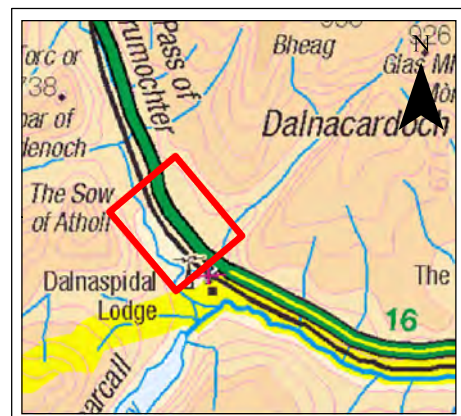
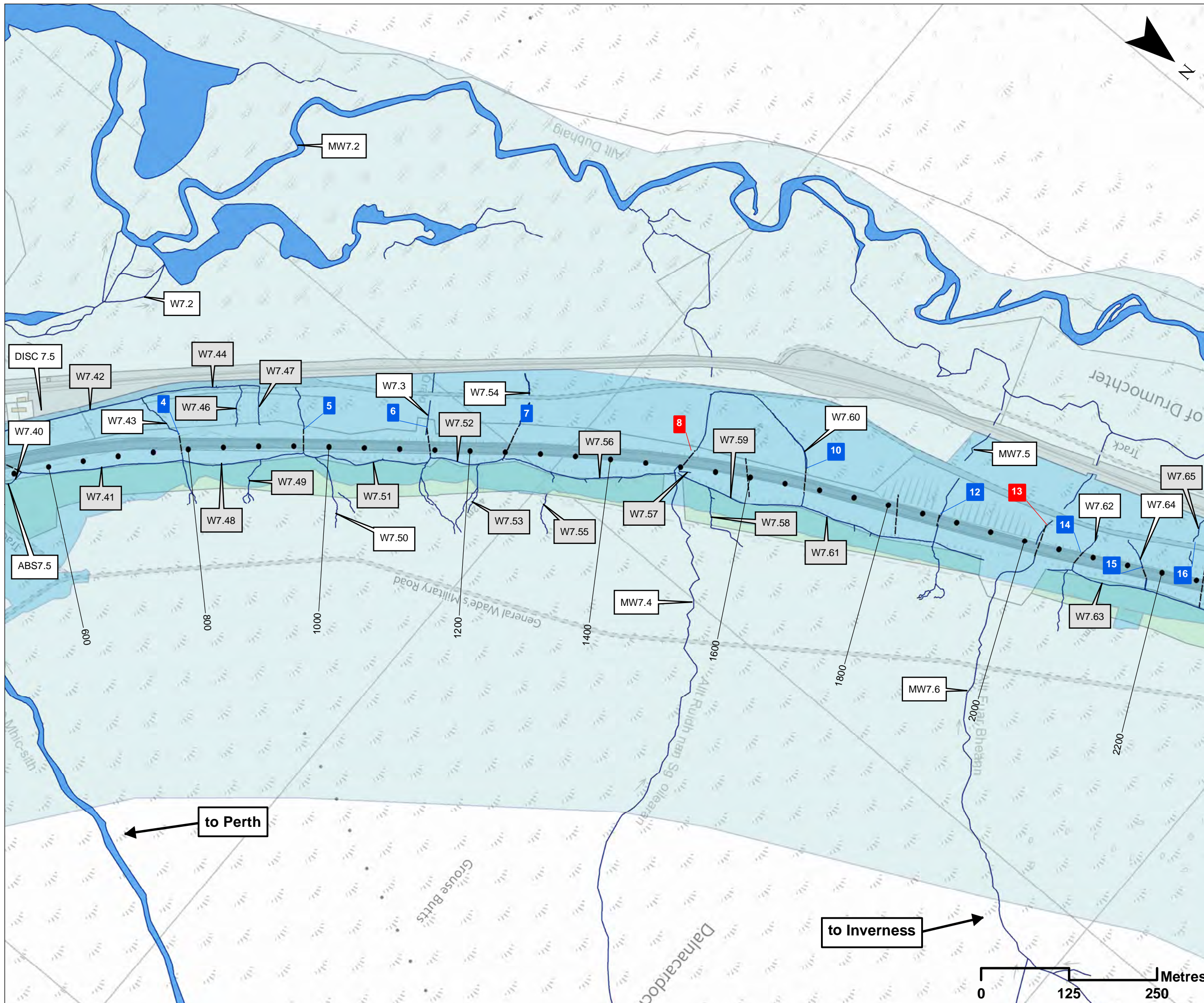
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| CP | CP | IM | EC |

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PROJ: 495298

DWG: A9P07-CFJ-EWE-L_ML000_ZZ-DR-EN-0001

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| SHEET: | REVISION: | SUITABILITY: |
| 1 OF 7 | C01 | A3 |





- Legend**
- Detailed Study Area
 - Wider Study Area
 - Surface Water Features
 - Existing Crossing
 - ABS Abstraction
 - DISC Discharge
 - MW Major Watercourse
 - W Minor Watercourse
 - P Pond
 - R Reservoir or Dam
 - Major Watercourse Crossing
 - Minor Watercourse Crossing

Further Information

Reference should be made to the Water Features Schedule (WFS) for detailed information on watercourses scoped-out of the assessment.

Assessed Features: White
 Scoped-out Features: Grey

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
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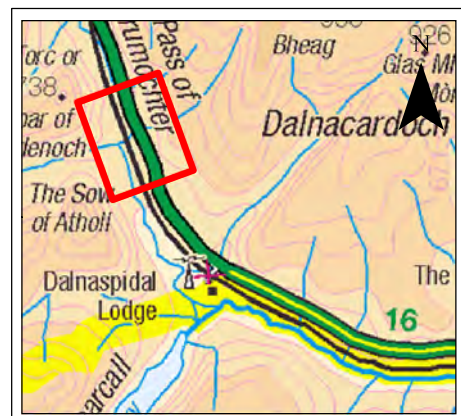
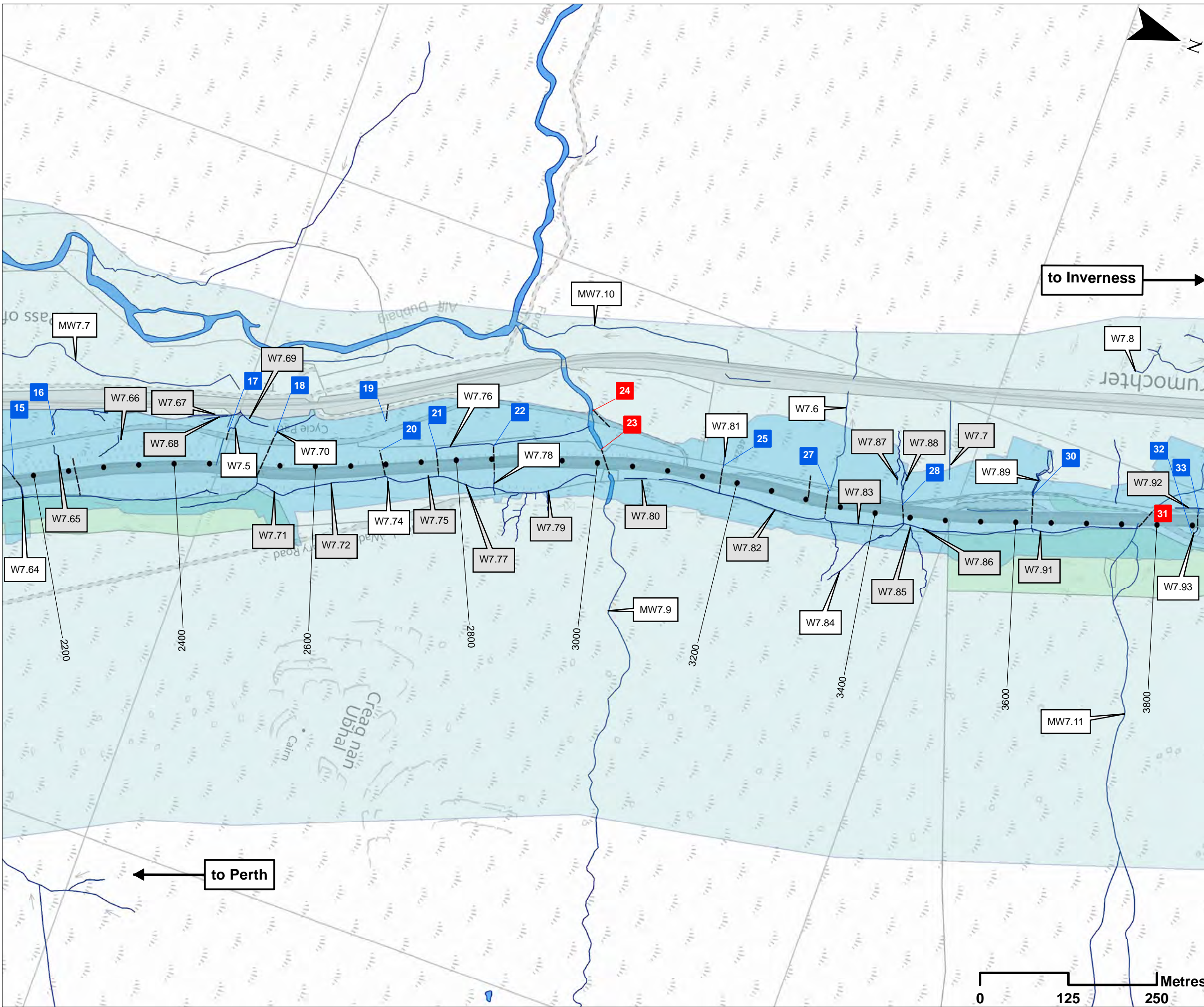
**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 BASELINE PLAN
 DRAWING 11.2
 WATER FEATURES SURVEY
 chainage 600 to 2200**

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| DESIGN: CP | DRAWN: CP | CHK: IM | APP: EC |
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DATE: 15/11/2017
 PROJ: 495298

DWG: A9P07-CFJ-EWE-L ML006 ZZ-DR-EN-0001

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| SHEET: 2 OF 7 | REVISION: C01 | SUITABILITY: A3 |
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- Legend**
- Detailed Study Area
 - Wider Study Area
 - Surface Water Features
 - Existing Crossing
 - ABS Abstraction
 - DISC Discharge
 - MW Major Watercourse
 - W Minor Watercourse
 - P Pond
 - R Reservoir or Dam
 - Major Watercourse Crossing
 - Minor Watercourse Crossing

Further Information

Reference should be made to the Water Features Schedule (WFS) for detailed information on watercourses scoped-out of the assessment.

Assessed Features: White
Scoped-out Features: Grey

SCALE 1:5000

| REV | SUI | DATE | DESCRIPTION | BY | APP |
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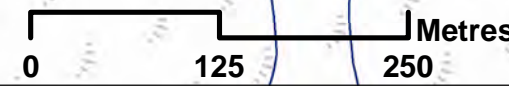
**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 BASELINE PLAN
 DRAWING 11.3
 WATER FEATURES SURVEY
 chainage 2200 to 3800**

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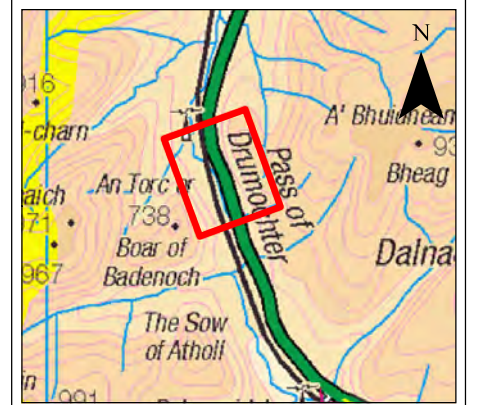
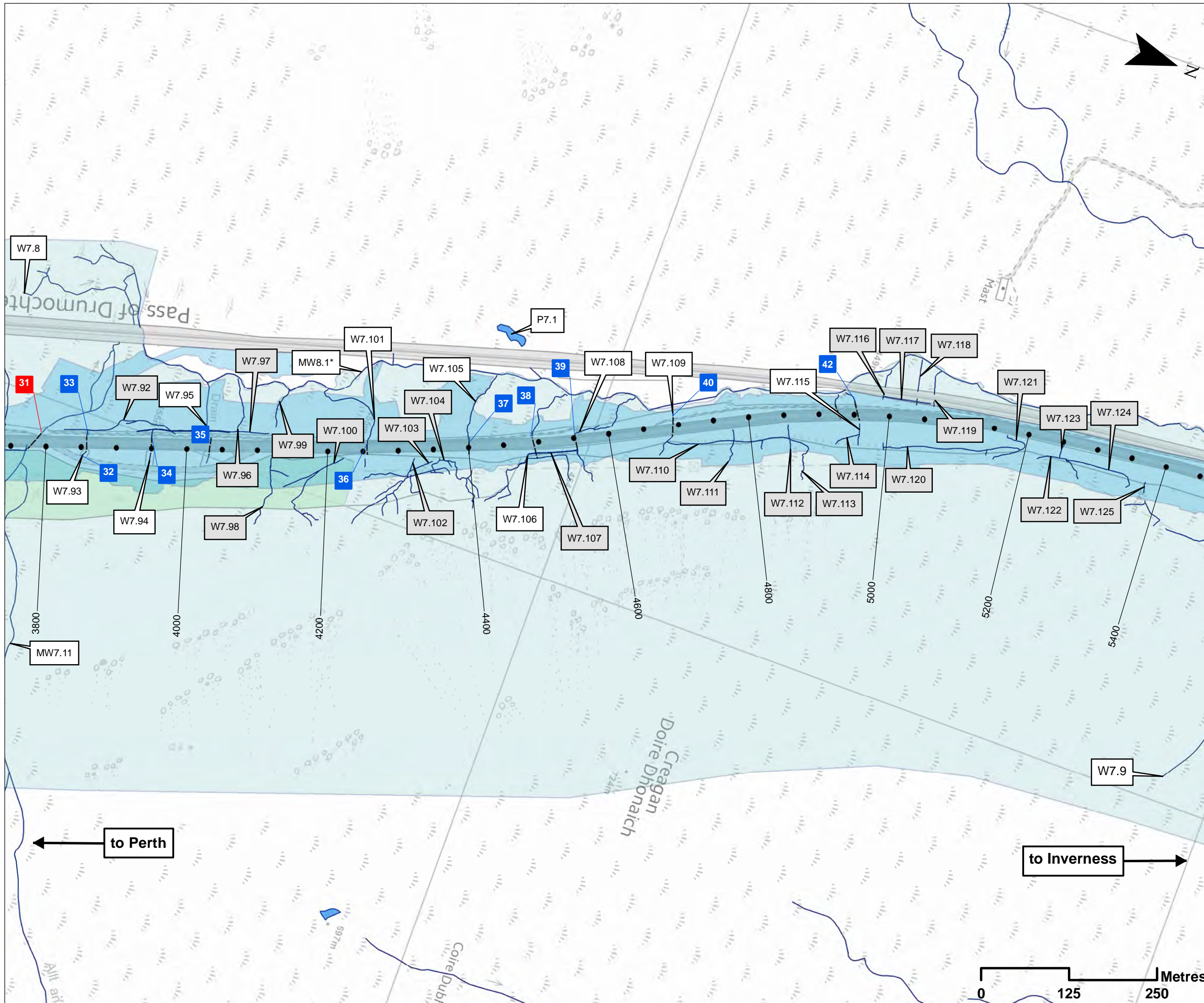
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- Legend**
- Detailed Study Area
 - Wider Study Area
 - Surface Water Features
 - Existing Crossing
 - ABS Abstraction
 - DISC Discharge
 - MW Major Watercourse
 - W Minor Watercourse
 - P Pond
 - R Reservoir or Dam
 - Major Watercourse Crossing
 - Minor Watercourse Crossing

Further Information
 Reference should be made to the Water Features Schedule (WFS) for detailed information on watercourses scoped-out of the assessment.
 Assessed Features: White
 Scoped-out Features: Grey

SCALE 1:5000

| REV | SUI | DATE | DESCRIPTION | BY | APP |
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| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
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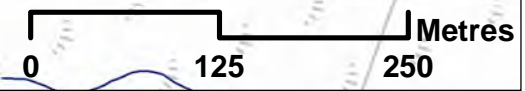
**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 BASELINE PLAN
 DRAWING 11.4
 WATER FEATURES SURVEY
 chainage 3800 to 5400**

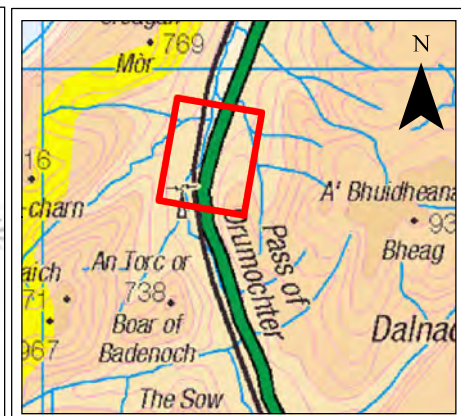
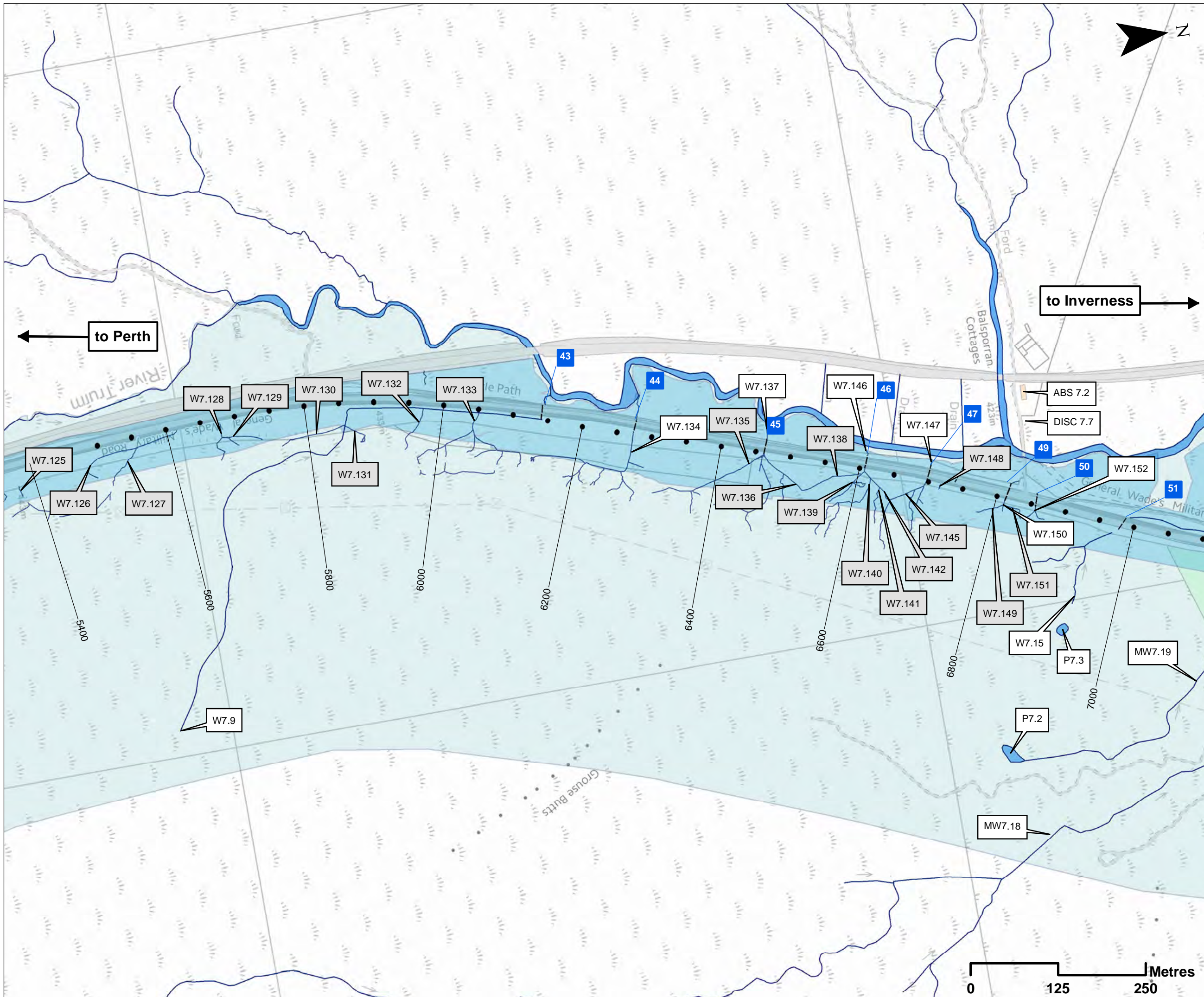
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DATE: 15/11/2017
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DWG: A9P07-CFJ-EWE-L_ML038_ZZ-DR-EN-0001

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| SHEET: 4 OF 7 | REVISION: C01 | SUITABILITY: A3 |
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Legend

- Detailed Study Area
- Wider Study Area
- Surface Water Features
- Existing Crossing
- ABS Abstraction
- DISC Discharge
- MW Major Watercourse
- W Minor Watercourse
- P Pond
- R Reservoir or Dam
- Major Watercourse Crossing
- Minor Watercourse Crossing

Further Information

Reference should be made to the Water Features Schedule (WFS) for detailed information on watercourses scoped-out of the assessment.

Assessed Features: White
Scoped-out Features: Grey

SCALE 1:5000

| | | | | | |
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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | EC |
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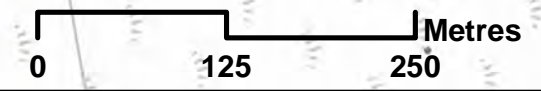
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 BASELINE PLAN
 DRAWING 11.5
 WATER FEATURES SURVEY
 chainage 5400 to 7000**

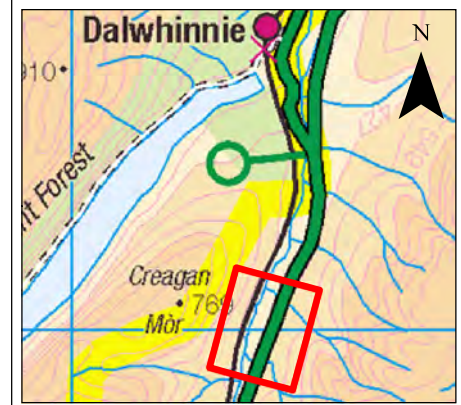
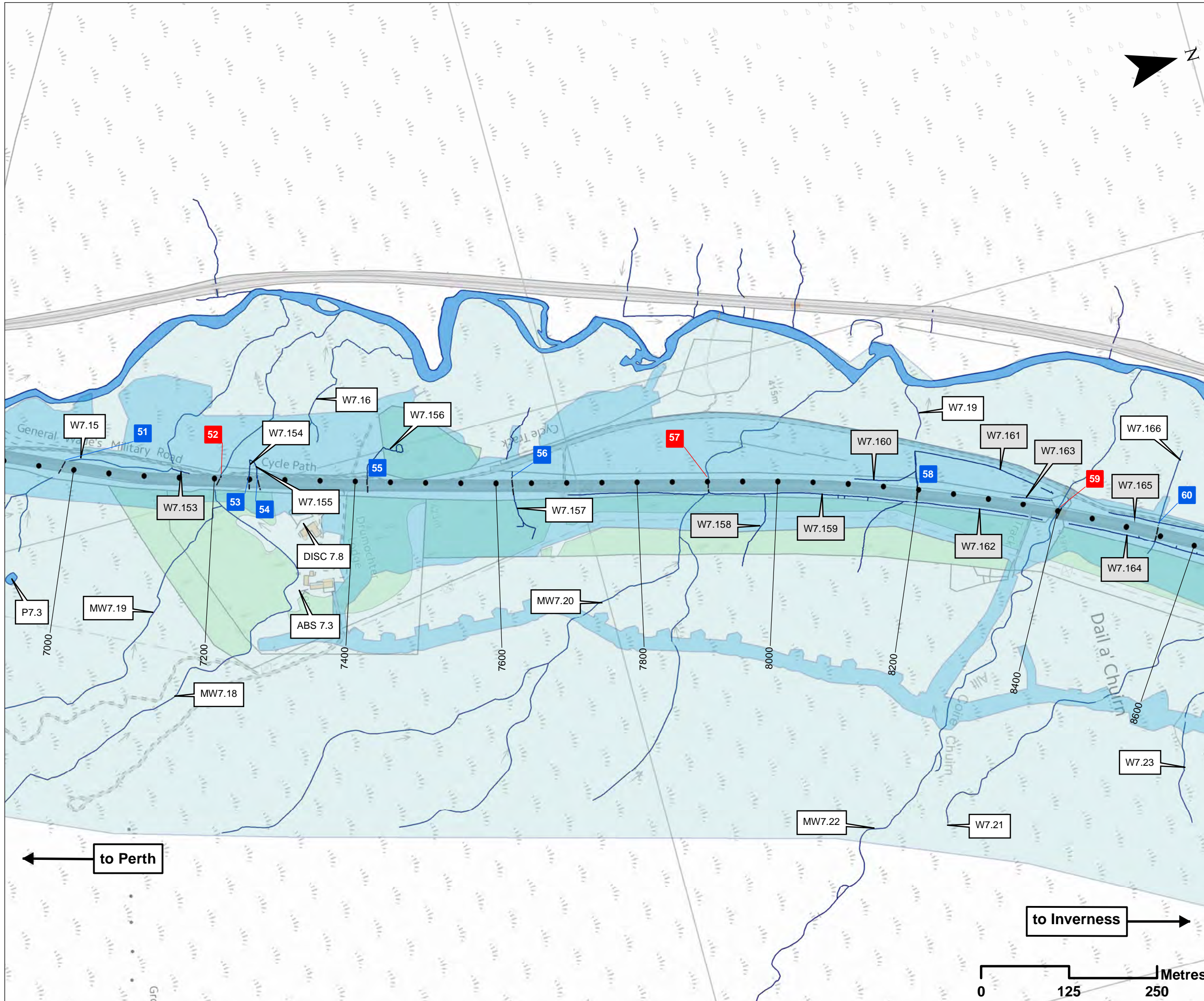
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DATE: 15/11/2017
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| SHEET: 5 OF 7 | REVISION: C01 | SUITABILITY: A3 |
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- Legend**
- Detailed Study Area
 - Wider Study Area
 - Surface Water Features
 - Existing Crossing
 - ABS Abstraction
 - DISC Discharge
 - MW Major Watercourse
 - W Minor Watercourse
 - P Pond
 - R Reservoir or Dam
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing

Further Information

Reference should be made to the Water Features Schedule (WFS) for detailed information on watercourses scoped-out of the assessment.

Assessed Features: White
 Scoped-out Features: Grey

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
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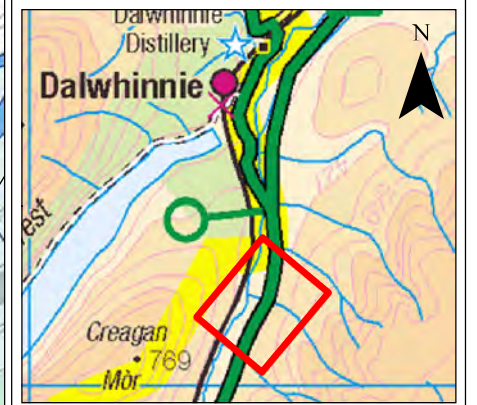
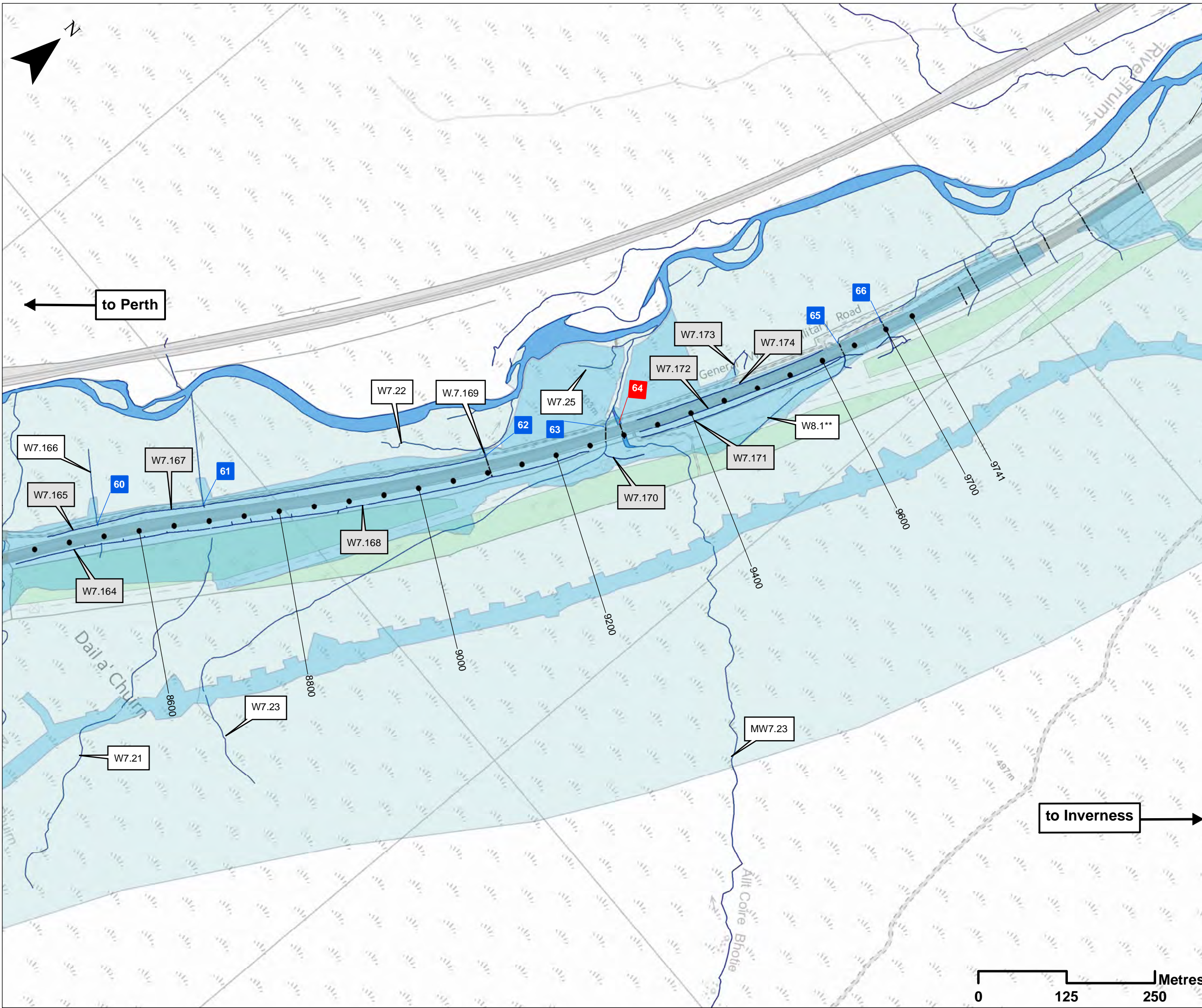
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**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 BASELINE PLAN
 DRAWING 11.6
 WATER FEATURES SURVEY
 chainage 7000 to 8600**

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| DESIGN: CP | DRAWN: CP | CHK: IM | APP: EC |
| DATE: 15/11/2017 | | | |
| PROJ: 495298 | | | |
| DWG: A9P07-CFJ-EWE-L_ML070_ZZ-DR-EN-0001 | | | |
| SHEET: 6 OF 7 | REVISION: C01 | SUITABILITY: A3 | |

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- Legend**
- Detailed Study Area
 - Wider Study Area
 - Surface Water Features
 - Existing Crossing
 - ABS Abstraction
 - DISC Discharge
 - MW Major Watercourse
 - W Minor Watercourse
 - P Pond
 - R Reservoir or Dam
 - Major Watercourse Crossing
 - Minor Watercourse Crossing

Further Information

Reference should be made to the Water Features Schedule (WFS) for detailed information on watercourses scoped-out of the assessment.

Assessed Features: White
 Scoped-out Features: Grey

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | EC |
| REV | SUIT | DATE | DESCRIPTION | BY | APP |

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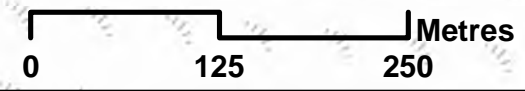
**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 BASELINE PLAN
 DRAWING 11.7
 WATER FEATURES SURVEY
 chainage 8600 to 9741**

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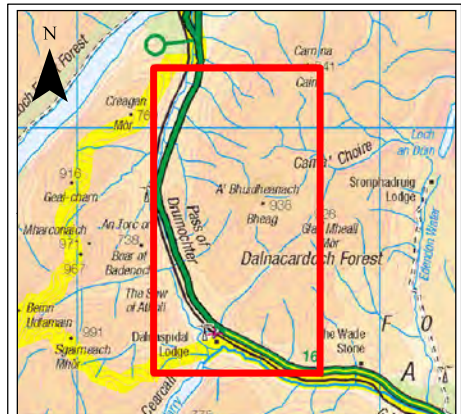
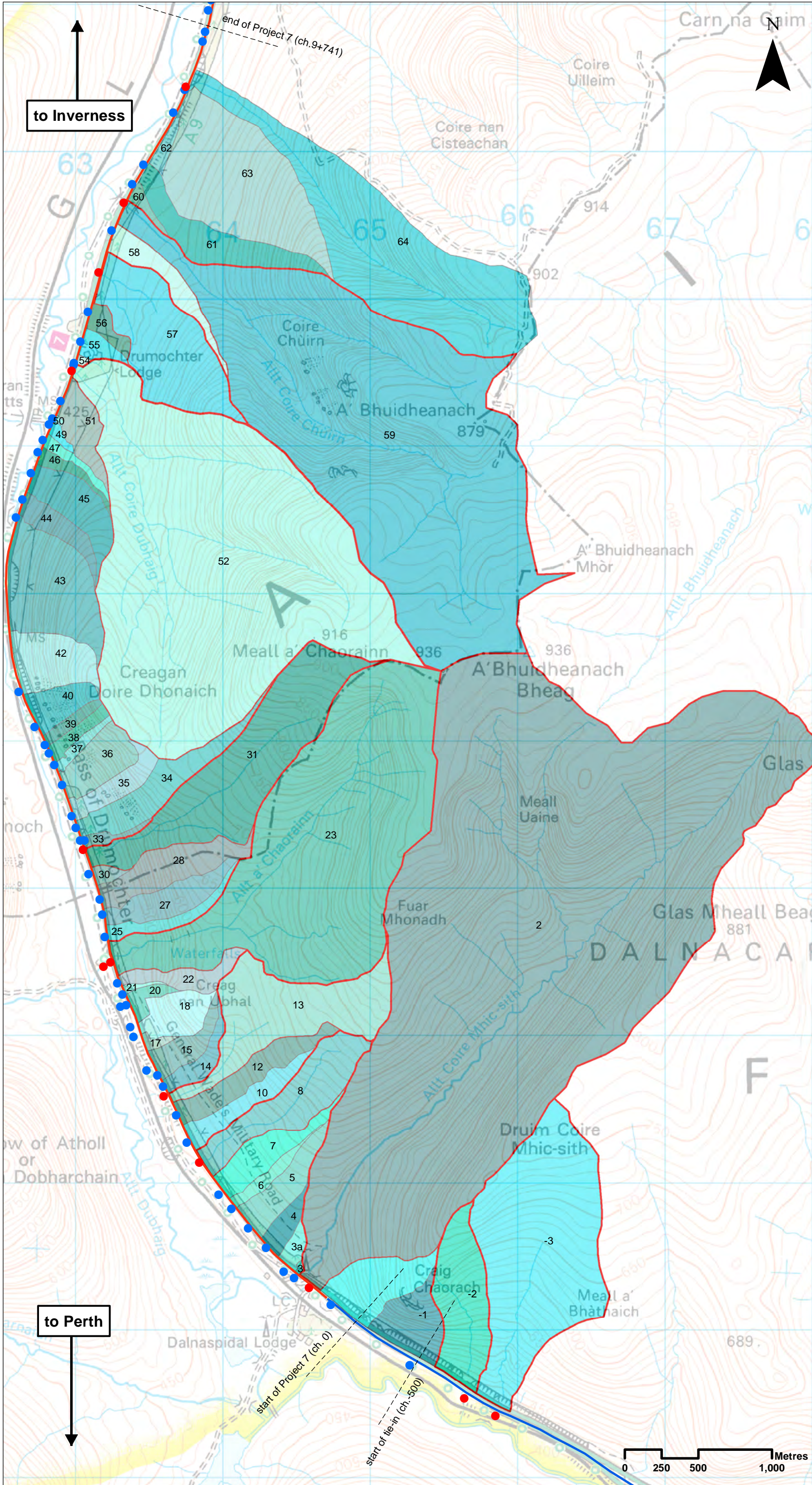
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| SHEET: 7 OF 7 | REVISION: C01 | SUITABILITY: A3 |
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- Legend**
- Proposed Scheme Extents
 - Existing Dualled
 - Existing Single
 - Major Watercourse Crossing
 - Minor Watercourse Crossing

Catchments by Hydro ID

| | | |
|-----|----|----|
| -01 | 20 | 44 |
| -02 | 21 | 45 |
| -03 | 22 | 46 |
| 01 | 23 | 47 |
| 02 | 25 | 49 |
| 03 | 27 | 50 |
| 03a | 28 | 51 |
| 04 | 30 | 52 |
| 05 | 31 | 54 |
| 06 | 33 | 55 |
| 07 | 34 | 56 |
| 08 | 35 | 57 |
| 10 | 36 | 58 |
| 12 | 37 | 59 |
| 13 | 38 | 60 |
| 14 | 39 | 61 |
| 15 | 40 | 62 |
| 17 | 42 | 63 |
| 18 | 43 | 64 |

*Red outline denotes a catchment of a Major Watercourse.

SCALE 1:25000

| REV | SUIT | DATE | DESCRIPTION | CP | VF |
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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | VF |
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| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | VF |

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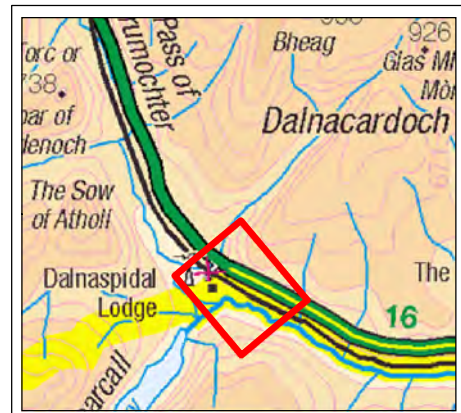
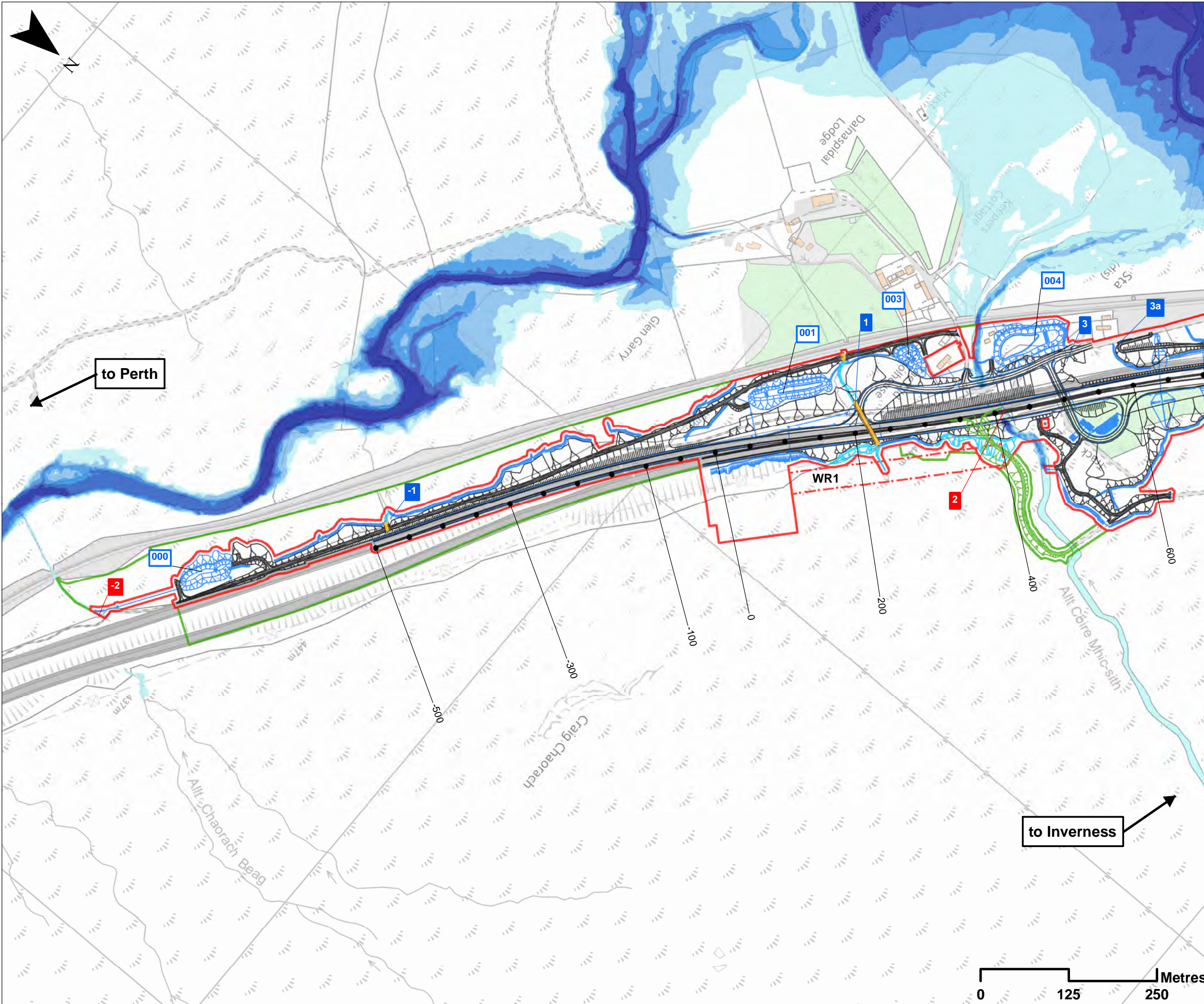
**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 BASELINE PLAN
 DRAWING 11.8
 CATCHMENT BOUNDARIES OVERVIEW**

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DATE: 29/11/2017

PROJ: 495298
 DWG: 07-CFJ-EWE-L_ZZZZZ_ZZ-DR-EN-0001

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| SHEET: 1 OF 1 | REVISION: C01 | SUITABILITY: A3 |
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- Legend**
- Proposed Scheme Detail
 - Dalnacardoch Temporary Construction Access
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - Major Watercourse Crossing
 - Minor Watercourse Crossing
 - SuDS ID
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - Winter Resilience Tree Belt (Indicative)

Design Manual for Roads and Bridges Stage 3 (DMRB3) 1 in 100 Year Flood Extent - Depth (m)

- 0 - 0.5
- 0.5 - 1
- 1.0 - 1.5
- 1.5 - 2
- >2

ADDITIONAL NOTE:
Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

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|-----|------|-----------|-------------------|----|-----|
| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | VF |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | VF |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | VF |
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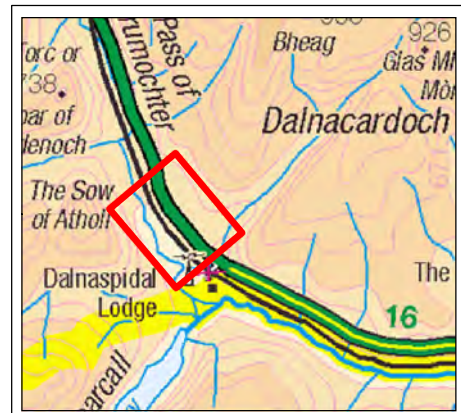
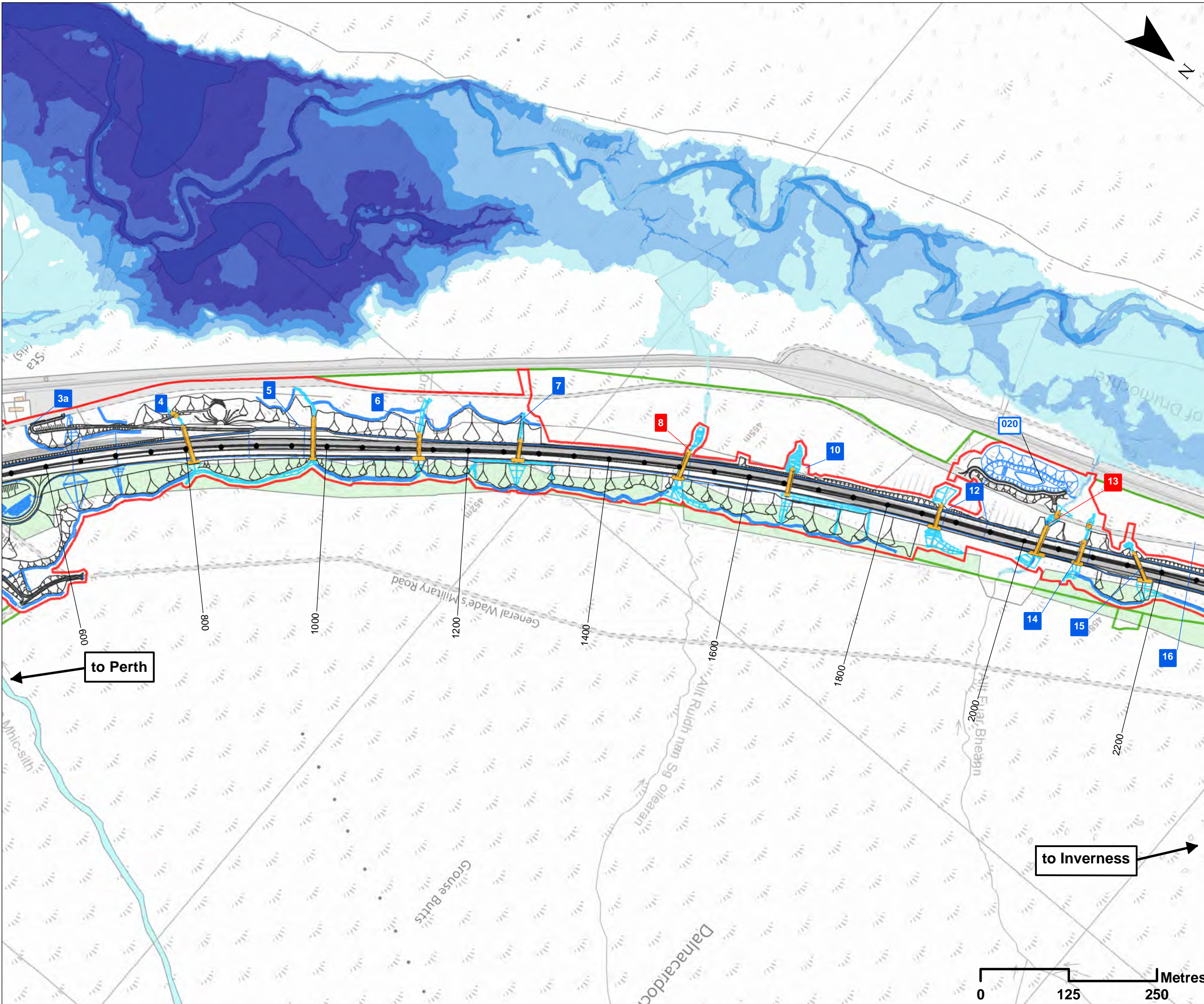
PROJECT 7 GLEN GARRY TO DALWHINNIE EIA ASSESSMENT PLAN DRAWING 11.9 FLOOD EXTENTS PLAN - EXISTING chainage -500 to 600

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DATE: 01/12/2017
PROJ: 495298

DWG: A9P07-CFJ-EWE-L_ML000_ZZ-DR-EN-0002

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| SHEET: 2 OF 8 | REVISION: C01 | SUITABILITY: A3 |
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Legend

- Proposed Scheme Detail
- Watercourse Diversions
- Drainage
- Proposed Culverts
- 1 Major Watercourse Crossing
- 1 Minor Watercourse Crossing
- 001 SuDS ID
- Assessment Boundary - Permanent Works
- Assessment Boundary - Temporary Works

Design Manual for Roads and Bridges Stage 3 (DMRB3) 1 in 200 Year Flood Extent - Depth in (m)

- 0 - 0.5
- 0.5 - 1
- 1.0 - 1.5
- 1.5 - 2
- >2

ADDITIONAL NOTE:
Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | VF |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | VF |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | VF |
| REV | SUIT | DATE | DESCRIPTION | BY | APP |

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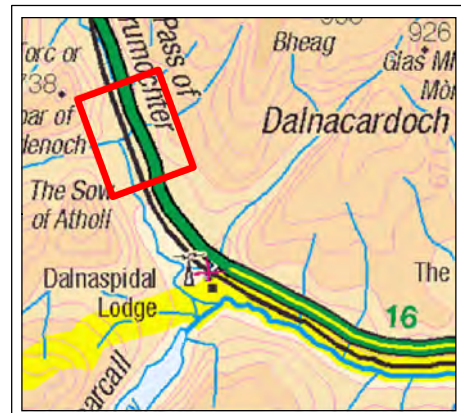
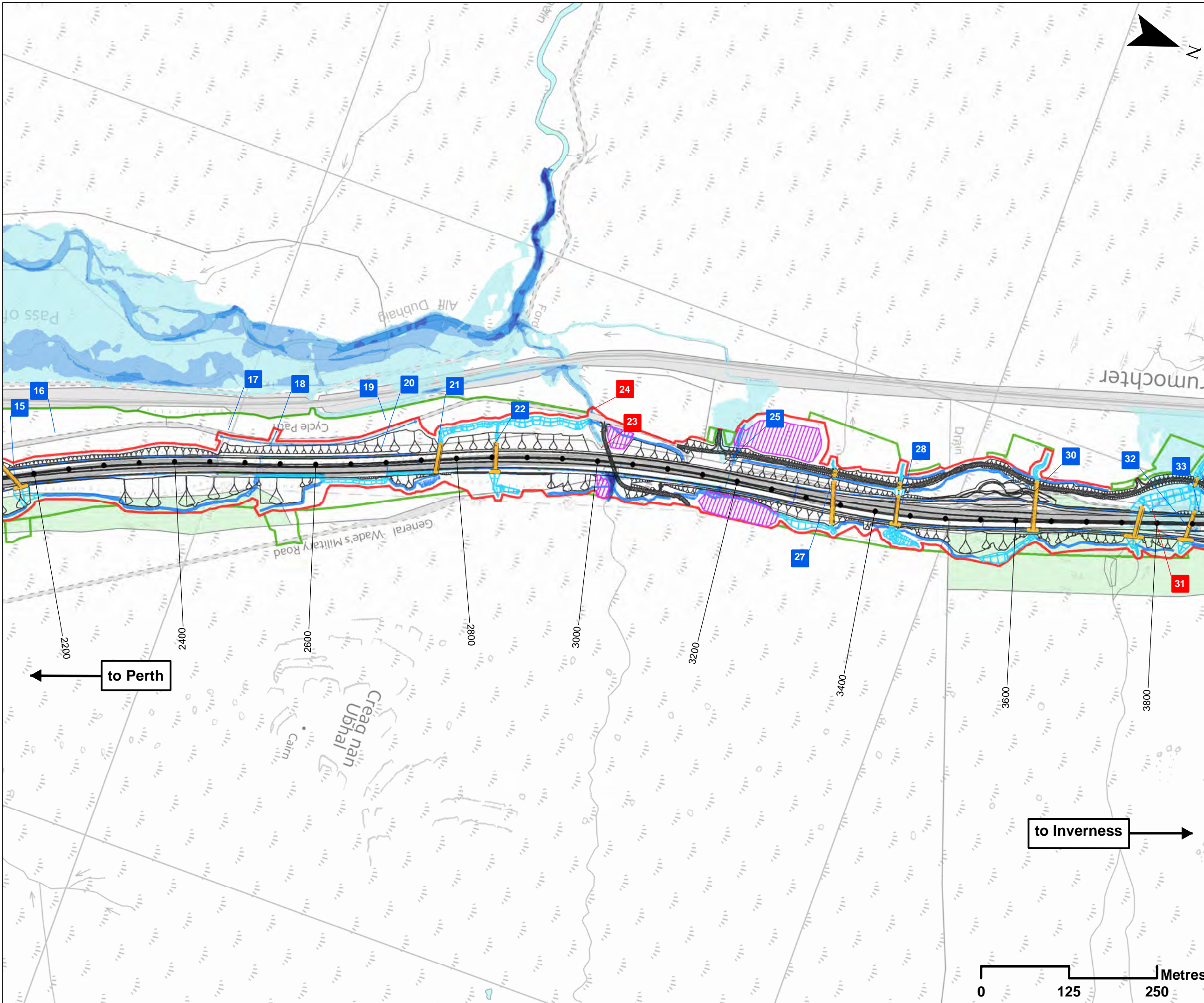
PROJECT 7 GLEN GARRY TO DALWHINNIE EIA ASSESSMENT PLAN
ASSESSMENT PLAN
DRAWING 11.10
FLOOD EXTENTS PLAN - EXISTING
chainage 600 to 2200

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| DESIGN: CP | DRAWN: CP | CHK: LG / JMcN | APP: VF |
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DATE: 01/12/2017
PROJ: 495298

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| DWG: A9P07-CFJ-EWE-L ML006 ZZ-DR-EN-0002 | | |
| SHEET: 3 OF 8 | REVISION: C01 | SUITABILITY: A3 |

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Legend

- Proposed Scheme Detail
- Watercourse Diversions
- Drainage
- Proposed Culverts
- 1 Major Watercourse Crossing
- 1 Minor Watercourse Crossing
- 001 SuDS ID
- Assessment Boundary - Permanent Works
- Assessment Boundary - Temporary Works
- Compensatory Storage Areas
- Encroachment of Earthworks into Floodplain

Design Manual for Roads and Bridges Stage 3 (DMRB3) 1 in 200 Year Flood Extent - Depth (m)

- 0 - 0.5
- 0.5 - 1
- 1.0 - 1.5
- 1.5 - 2
- >2

ADDITIONAL NOTE:
Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

| REV | SUJ | DATE | DESCRIPTION | BY | APP |
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| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | VF |

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PROJECT 7 GLEN GARRY TO DALWHINNIE EIA ASSESSMENT PLAN DRAWING 11.11 FLOOD EXTENTS PLAN - EXISTING chainage 2200 to 3800

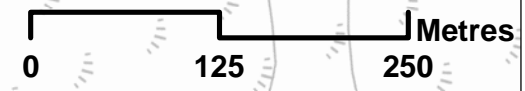
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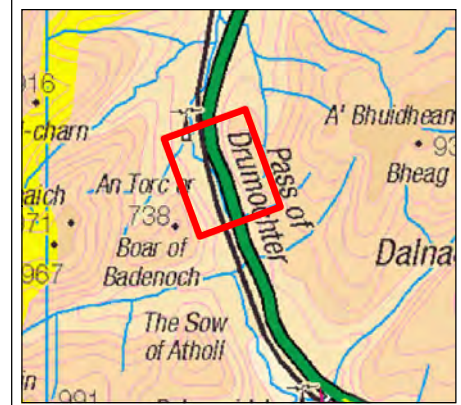
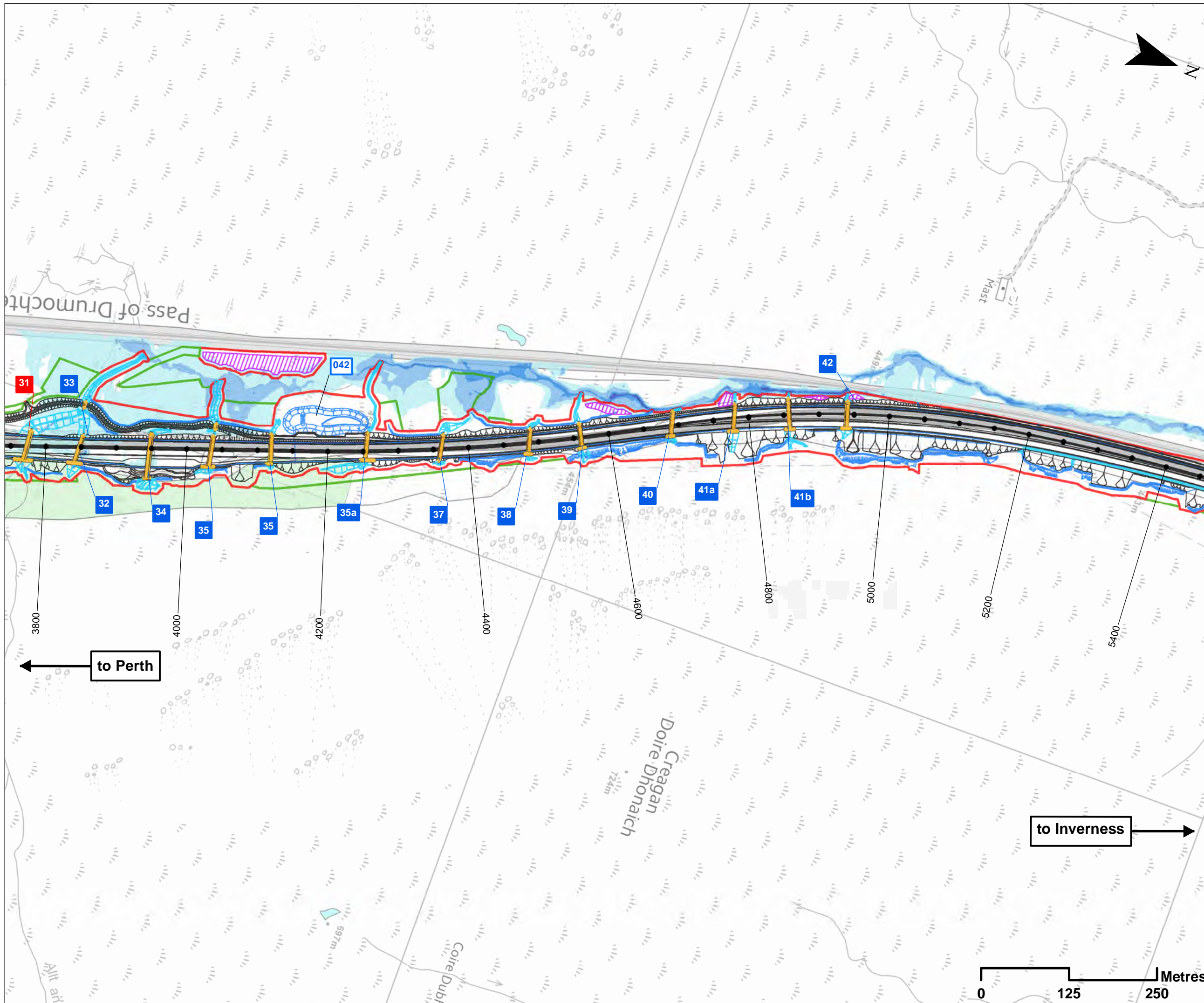
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PROJ: 495298
DWG: A9P07-CFJ-EWE-L_ML022_ZZ-DR-EN-0002

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| SHEET: 4 OF 8 | REVISION: C01 | SUITABILITY: A3 |
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Legend

- Proposed Scheme Detail
- Watercourse Diversions
- Drainage
- Proposed Culverts
- 1 Major Watercourse Crossing
- 1 Minor Watercourse Crossing
- 001 SuDS ID
- Assessment Boundary - Permanent Works
- Assessment Boundary - Temporary Works
- ▨ Compensatory Storage Areas
- ▨ Encroachment of Earthworks into Floodplain

Design Manual for Roads and Bridges Stage 3 (DMRB3) 1 in 200 Year Flood Extent - Depth (m)

- 0 - 0.5
- 0.5 - 1
- 1.0 - 1.5
- 1.5 - 2
- >2

ADDITIONAL NOTE:
Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

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| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | VF |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | VF |

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**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 ASSESSMENT PLAN
 DRAWING 11.12
 FLOOD EXTENTS PLAN - EXISTING
 chainage 3800 to 5400**

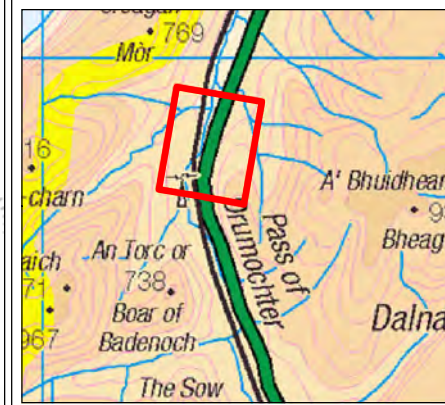
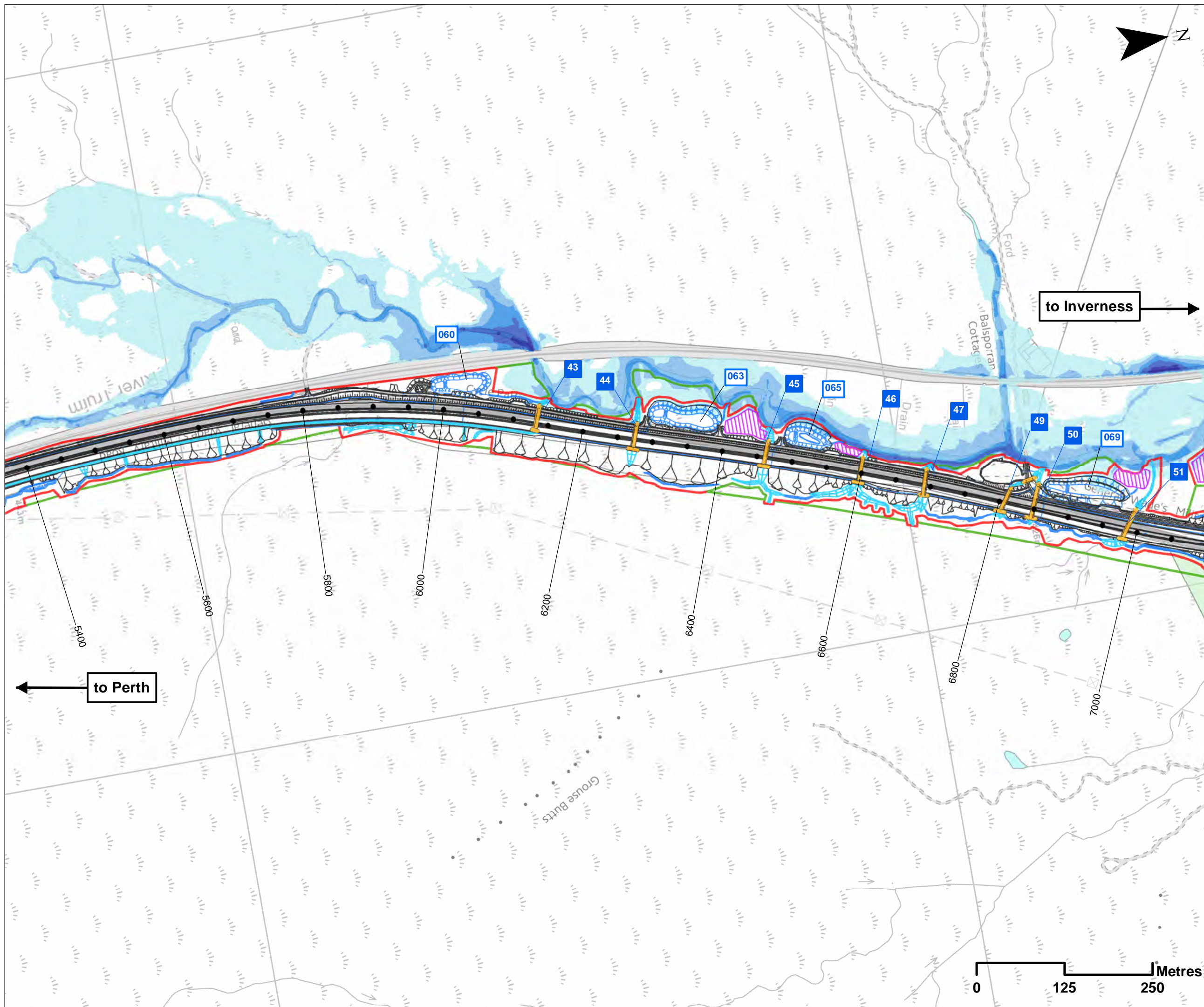
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DATE: 01/12/2017
 PROJ: 495298

DWG: A9P07-CFJ-EWE-L_ML038_ZZ-DR-EN-0003

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| SHEET: 5 OF 8 | REVISION: C01 | SUITABILITY: A3 |
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- Legend**
- Proposed Scheme Detail
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing
 - 001 SuDS ID
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - ▨ Compensatory Storage Areas
 - ▨ Encroachment of Earthworks into Floodplain
- Design Manual for Roads and Bridges Stage 3 (DMRB3) 1 in 200 Year Flood Extent - Depth (m)**
- 0 - 0.5
 - 0.5 - 1
 - 1.0 - 1.5
 - 1.5 - 2
 - >2

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | VF |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | VF |
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| REV | SUIT | DATE | DESCRIPTION | BY | APP |

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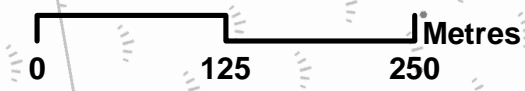
**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 ASSESSMENT PLAN
 DRAWING 11.13
 FLOOD EXTENTS PLAN - EXISTING
 chainage 5400 to 7000**

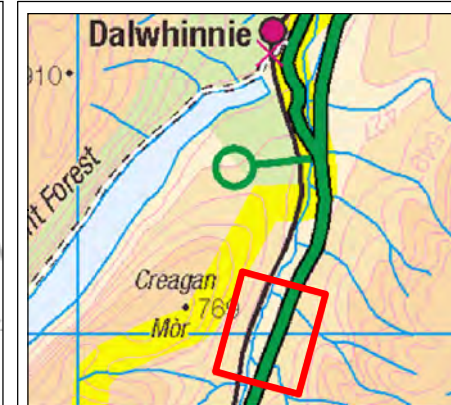
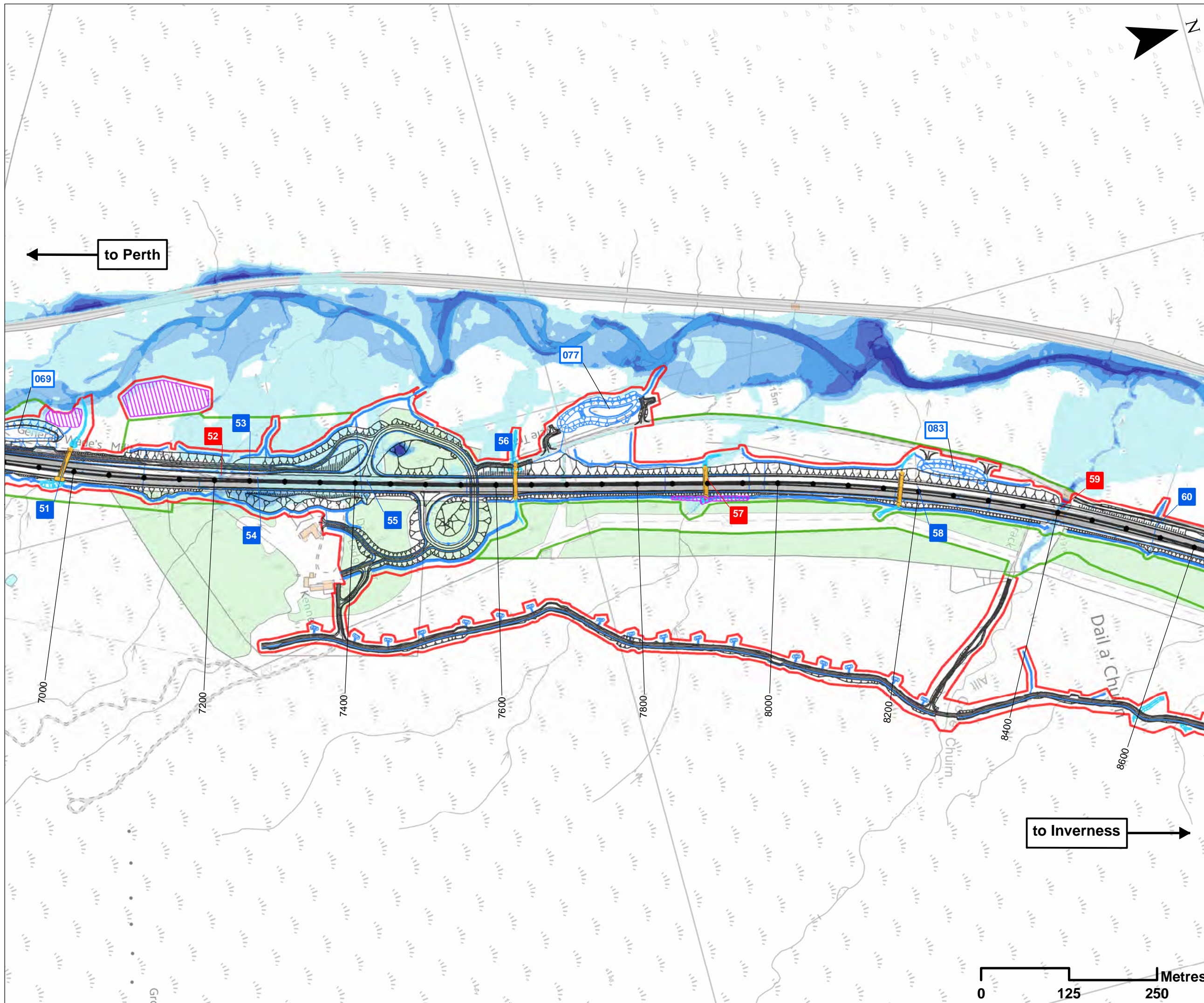
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DATE: 01/12/2017
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| SHEET: 6 OF 8 | REVISION: C01 | SUITABILITY: A3 |
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Legend

- Proposed Scheme Detail
- Watercourse Diversions
- Drainage
- Proposed Culverts
- 1 Major Watercourse Crossing
- 1 Minor Watercourse Crossing
- 001 SuDS ID
- Assessment Boundary - Permanent Works
- Assessment Boundary - Temporary Works
- Compensatory Storage Areas
- Encroachment of Earthworks into Floodplain

Design Manual for Roads and Bridges Stage 3 (DMRB3) 1 in 200 Year Flood Extent - Depth (m)

- 0 - 0.5
- 0.5 - 1
- 1.0 - 1.5
- 1.5 - 2
- >2

ADDITIONAL NOTE:

Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | VF |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | VF |
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PROJECT 7 GLEN GARRY TO DALWHINNIE EIA ASSESSMENT PLAN DRAWING 11.14 FLOOD EXTENTS PLAN - EXISTING chainage 7000 to 8600

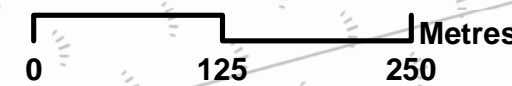
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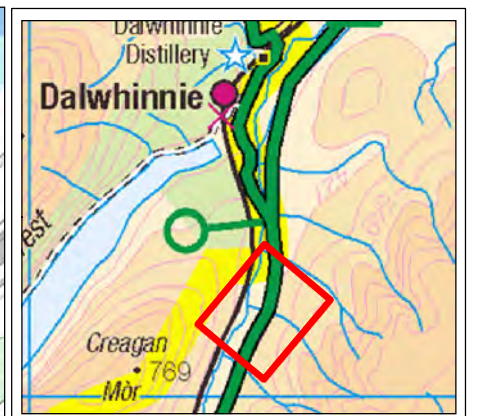
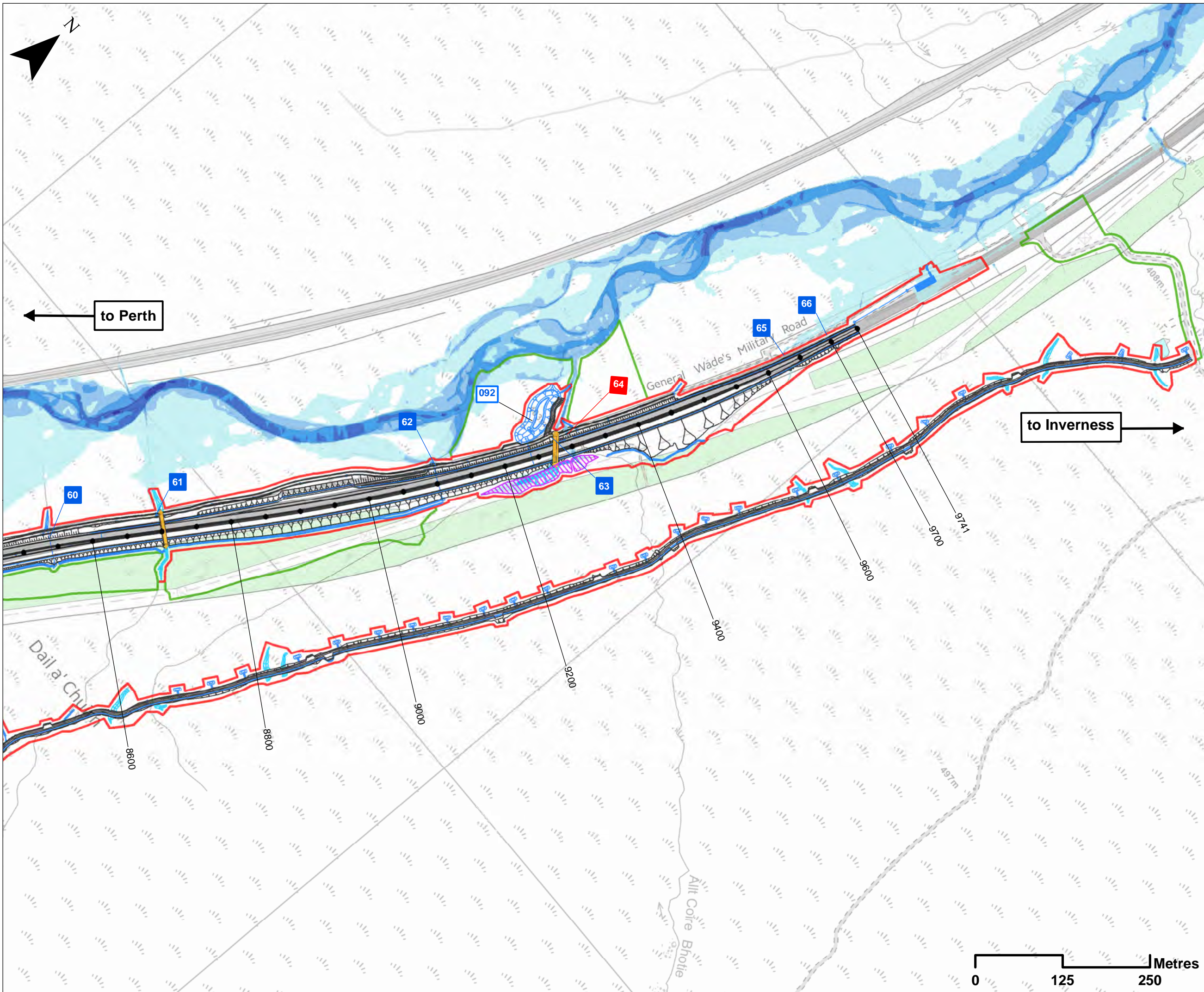
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PROJ: 495298

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| SHEET: 7 OF 8 | REVISION: C01 | SUITABILITY: A3 |
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- Legend**
- Proposed Scheme Detail
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing
 - 001 SuDS ID
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - ▨ Compensatory Storage Areas
 - ▨ Encroachment of Earthworks into Floodplain

Design Manual for Roads and Bridges Stage 3 (DMRB3) 1 in 200 Year Flood Extent - Depth (m)

- 0 - 0.5
- 0.5 - 1
- 1.0 - 1.5
- 1.5 - 2
- >2

ADDITIONAL NOTE:
Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | VF |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | VF |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | VF |
| REV | SUIT | DATE | DESCRIPTION | BY | APP |

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Tel + 44 (0) 141 552 2000 Fax +44 (0) 141 552 2525



PROJECT 7 GLEN GARRY TO DALWHINNIE EIA ASSESSMENT PLAN DRAWING 11.15 FLOOD EXTENTS PLAN - EXISTING chainage 8600 to 9741

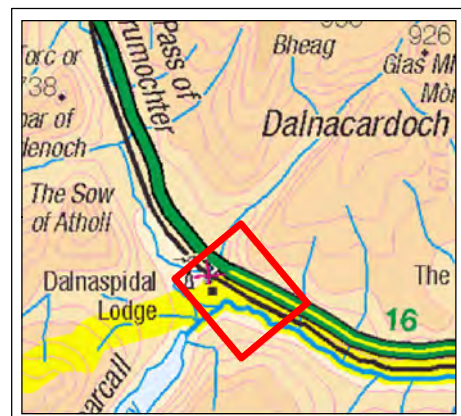
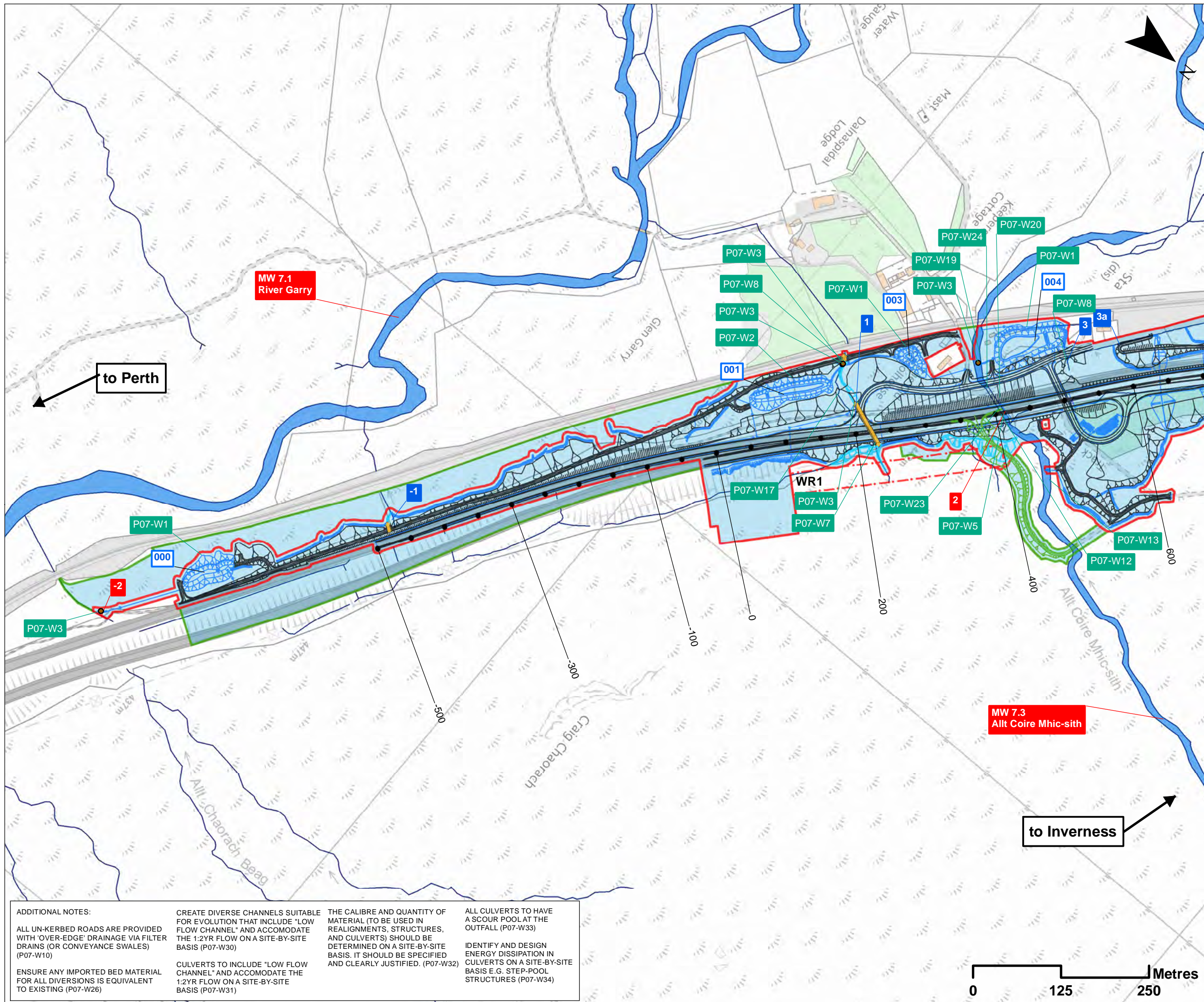
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PROJ: 495298

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| SHEET: 8 OF 8 | REVISION: C01 | SUITABILITY: A3 |
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- Legend**
- Proposed Scheme Detail
 - Dalnacardoch Temporary Construction Access
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing
 - 001 SuDS ID
 - P07 Mitigation Item
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - WR1 Winter Resilience Tree Belt (Indicative)
 - Compensatory Storage Areas
 - Detailed Study Area
 - Surface Water Features

*Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

| REV | SUIT | DATE | DESCRIPTION | BY | APP |
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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | EC |

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**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 ASSESSMENT PLAN
 DRAWING 11.16
 PROPOSED SCHEME MITIGATION
 chainage -500 to 600**

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DATE: 29/11/2017
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| SHEET: 1 OF 7 | REVISION: C01 | SUITABILITY: A3 |
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ADDITIONAL NOTES:

ALL UN-KERBED ROADS ARE PROVIDED WITH 'OVER-EDGE' DRAINAGE VIA FILTER DRAINS (OR CONVEYANCE SWALES) (P07-W10)

ENSURE ANY IMPORTED BED MATERIAL FOR ALL DIVERSIONS IS EQUIVALENT TO EXISTING (P07-W26)

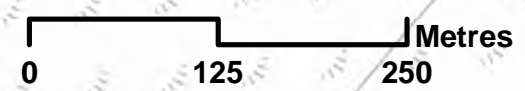
CREATE DIVERSE CHANNELS SUITABLE FOR EVOLUTION THAT INCLUDE 'LOW FLOW CHANNEL' AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W30)

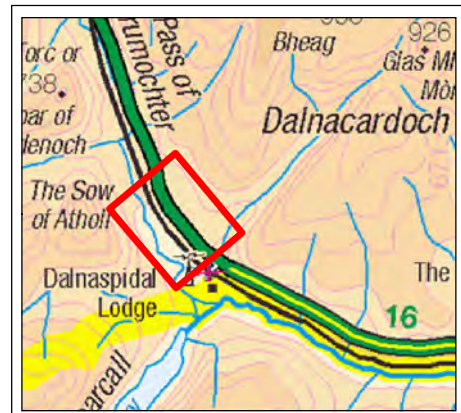
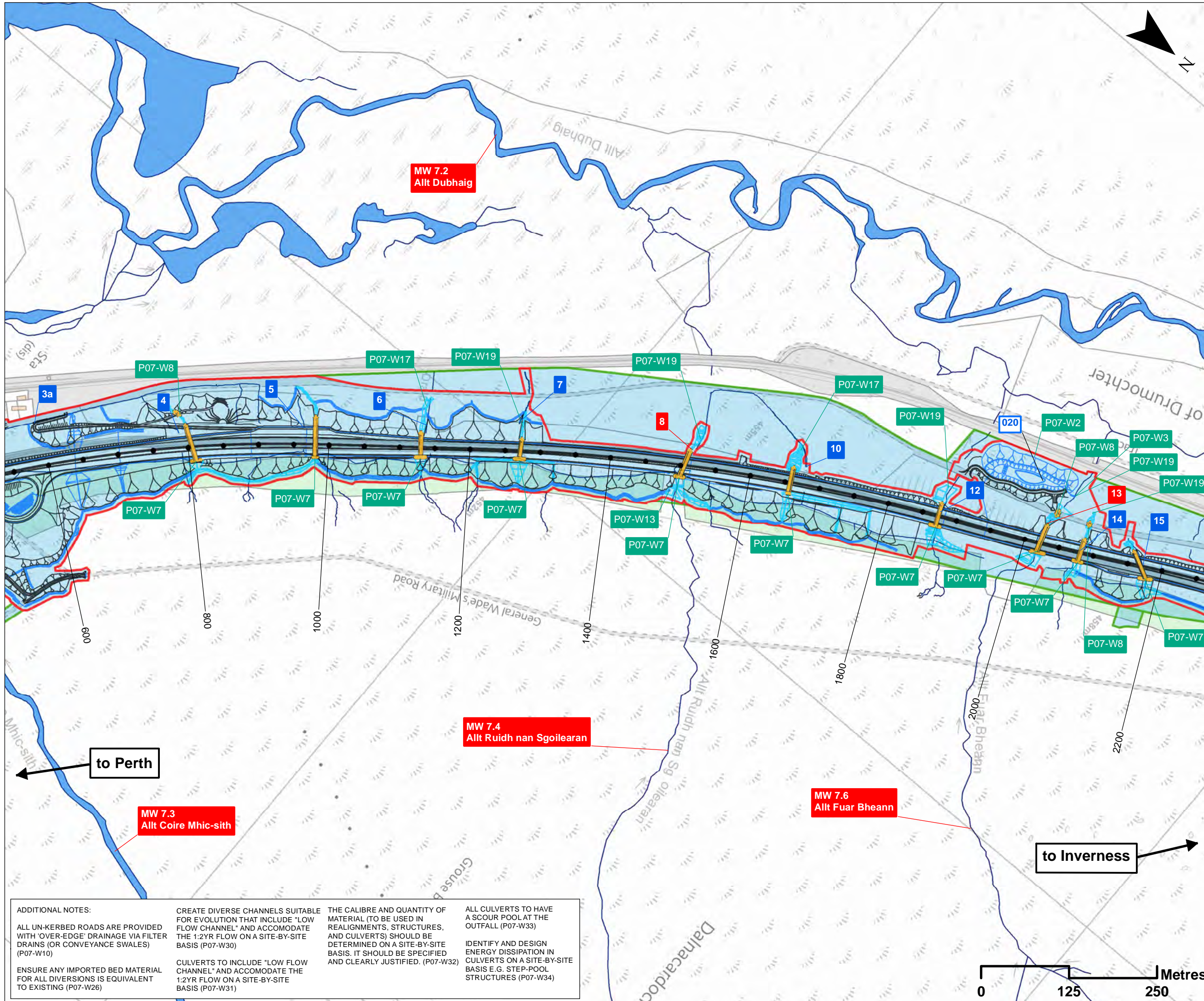
CULVERTS TO INCLUDE 'LOW FLOW CHANNEL' AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W31)

THE CALIBRE AND QUANTITY OF MATERIAL (TO BE USED IN REALIGNMENTS, STRUCTURES, AND CULVERTS) SHOULD BE DETERMINED ON A SITE-BY-SITE BASIS. IT SHOULD BE SPECIFIED AND CLEARLY JUSTIFIED. (P07-W32)

ALL CULVERTS TO HAVE A SCOUR POOL AT THE OUTFALL (P07-W33)

IDENTIFY AND DESIGN ENERGY DISSIPATION IN CULVERTS ON A SITE-BY-SITE BASIS E.G. STEP-POOL STRUCTURES (P07-W34)





- Legend**
- Proposed Scheme Detail
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing
 - 001 SuDS ID
 - P07 Mitigation Item
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - ▨ Compensatory Storage Areas
 - ▭ Detailed Study Area
 - ▭ Surface Water Features

*Labels shown where there are no *Proposed Culverts* shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

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| REV | SUI | DATE | DESCRIPTION | BY | APP |

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**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 ASSESSMENT PLAN
 DRAWING 11.17
 PROPOSED SCHEME MITIGATION
 chainage 600 to 2200**

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DATE: 29/11/2017
 PROJ: 495298

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| DWG: A9P07-CFJ-EWE-L_ML006_ZZ-DR-EN-0003 | REVISION: C01 | SUITABILITY: A3 |
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ADDITIONAL NOTES:

ALL UN-KERBED ROADS ARE PROVIDED WITH 'OVER-EDGE' DRAINAGE VIA FILTER DRAINS (OR CONVEYANCE SWALES) (P07-W10)

ENSURE ANY IMPORTED BED MATERIAL FOR ALL DIVERSIONS IS EQUIVALENT TO EXISTING (P07-W26)

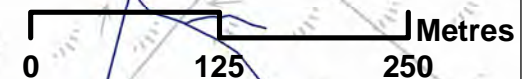
CREATE DIVERSE CHANNELS SUITABLE FOR EVOLUTION THAT INCLUDE 'LOW FLOW CHANNEL' AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W30)

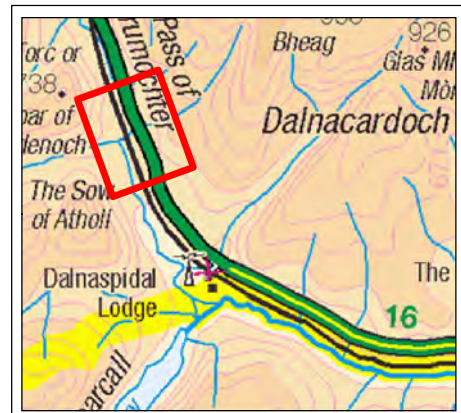
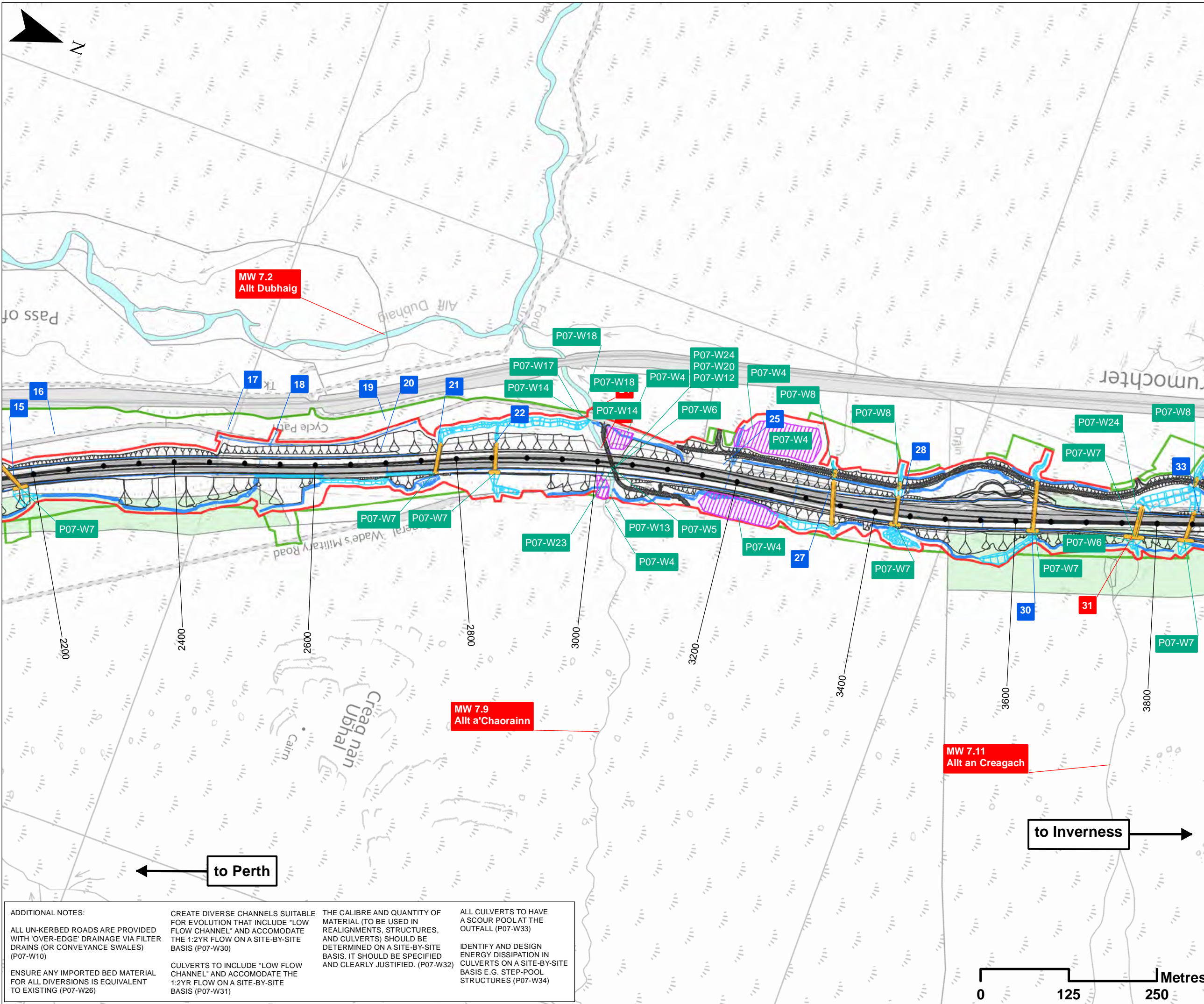
CULVERTS TO INCLUDE 'LOW FLOW CHANNEL' AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W31)

THE CALIBRE AND QUANTITY OF MATERIAL (TO BE USED IN REALIGNMENTS, STRUCTURES, AND CULVERTS) SHOULD BE DETERMINED ON A SITE-BY-SITE BASIS. IT SHOULD BE SPECIFIED AND CLEARLY JUSTIFIED. (P07-W32)

ALL CULVERTS TO HAVE A SCOUR POOL AT THE OUTFALL (P07-W33)

IDENTIFY AND DESIGN ENERGY DISSIPATION IN CULVERTS ON A SITE-BY-SITE BASIS E.G. STEP-POOL STRUCTURES (P07-W34)





- Legend**
- Proposed Scheme Detail
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing
 - 001 SuDS ID
 - P07 Mitigation Item
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - ▨ Compensatory Storage Areas
 - ▭ Detailed Study Area
 - ▭ Surface Water Features

*Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
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| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | EC |
| REV | SUIT | DATE | DESCRIPTION | BY | APP |

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**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 ASSESSMENT PLAN
 DRAWING 11.18
 PROPOSED SCHEME MITIGATION
 chainage 2200 to 3800**

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DATE: 29/11/2017
 PROJ: 495298

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| DWG: A9P07-CFJ-EWE-L_ML022_ZZ-DR-EN-0003 | | |
| SHEET: 3 OF 7 | REVISION: C01 | SUITABILITY: A3 |

ADDITIONAL NOTES:

ALL UN-KERBED ROADS ARE PROVIDED WITH 'OVER-EDGE' DRAINAGE VIA FILTER DRAINS (OR CONVEYANCE SWALES) (P07-W10)

ENSURE ANY IMPORTED BED MATERIAL FOR ALL DIVERSIONS IS EQUIVALENT TO EXISTING (P07-W26)

CREATE DIVERSE CHANNELS SUITABLE FOR EVOLUTION THAT INCLUDE "LOW FLOW CHANNEL" AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W30)

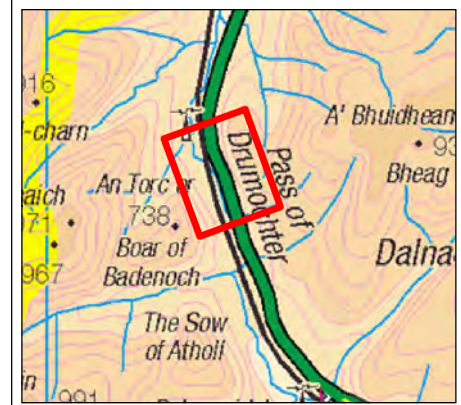
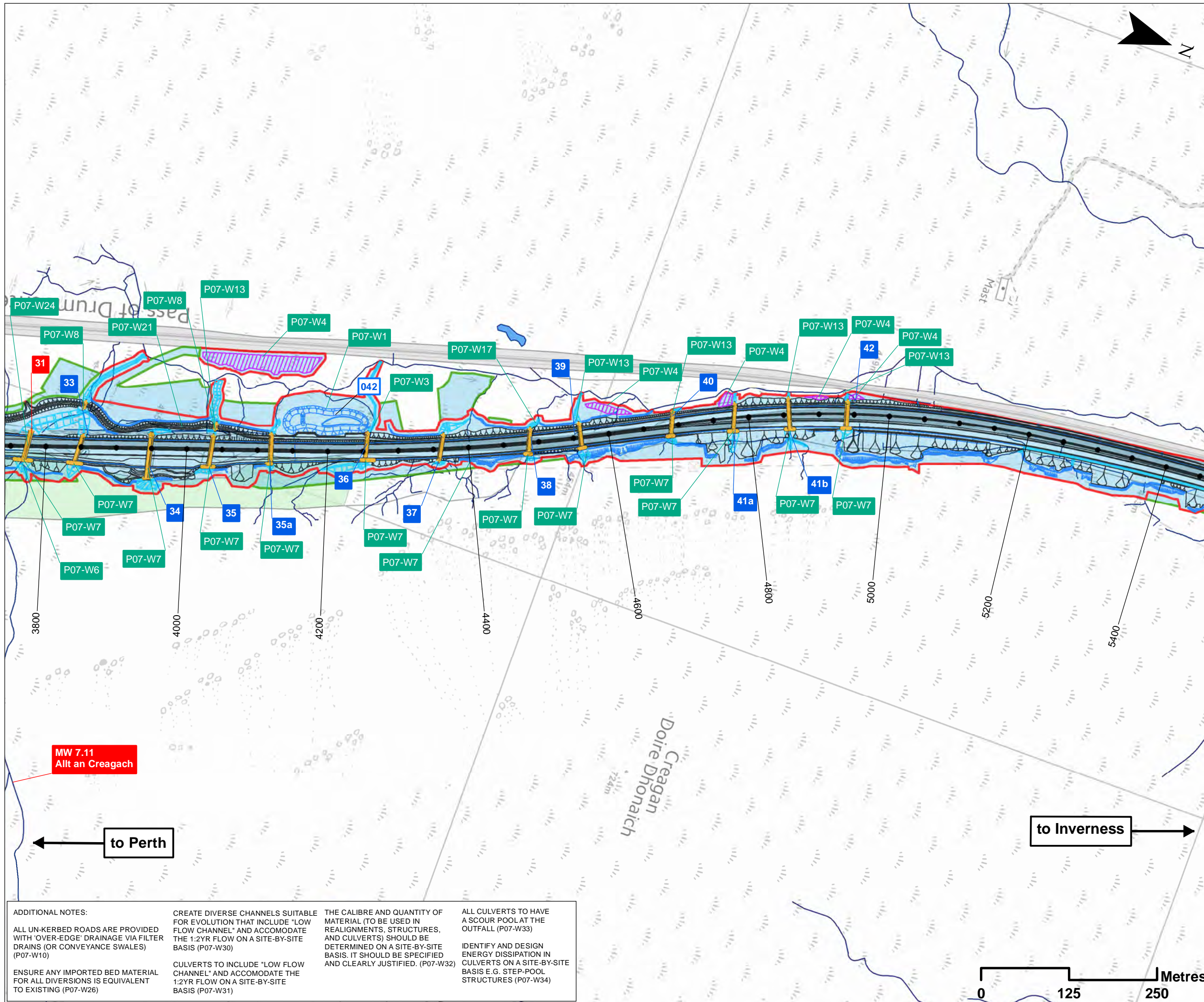
CULVERTS TO INCLUDE "LOW FLOW CHANNEL" AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W31)

THE CALIBRE AND QUANTITY OF MATERIAL (TO BE USED IN REALIGNMENTS, STRUCTURES, AND CULVERTS) SHOULD BE DETERMINED ON A SITE-BY-SITE BASIS. IT SHOULD BE SPECIFIED AND CLEARLY JUSTIFIED. (P07-W32)

ALL CULVERTS TO HAVE A SCOUR POOL AT THE OUTFALL (P07-W33)

IDENTIFY AND DESIGN ENERGY DISSIPATION IN CULVERTS ON A SITE-BY-SITE BASIS E.G. STEP-POOL STRUCTURES (P07-W34)





- Legend**
- Proposed Scheme Detail
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing
 - 001 SuDS ID
 - P07 Mitigation Item
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - Compensatory Storage Areas
 - Detailed Study Area
 - Surface Water Features

*Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

| REV | SUI | DATE | DESCRIPTION | BY | APP |
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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
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**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
ASSESSMENT PLAN
DRAWING 11.19
PROPOSED SCHEME MITIGATION
chainage 3800 to 5400**

| | | | |
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| DESIGN: CP | DRAWN: CP | CHK: IM | APP: EC |
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DATE: 29/11/2017
PROJ: 495298

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| DWG: A9P07-CFJ-EWE-L_ML038_ZZ-DR-EN-0005 | | |
| SHEET: 4 OF 7 | REVISION: C01 | SUITABILITY: A3 |

ADDITIONAL NOTES:

ALL UN-KERBED ROADS ARE PROVIDED WITH 'OVER-EDGE' DRAINAGE VIA FILTER DRAINS (OR CONVEYANCE SWALES) (P07-W10)

ENSURE ANY IMPORTED BED MATERIAL FOR ALL DIVERSIONS IS EQUIVALENT TO EXISTING (P07-W26)

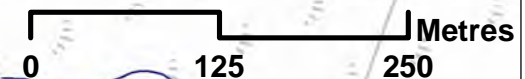
CREATE DIVERSE CHANNELS SUITABLE FOR EVOLUTION THAT INCLUDE 'LOW FLOW CHANNEL' AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W30)

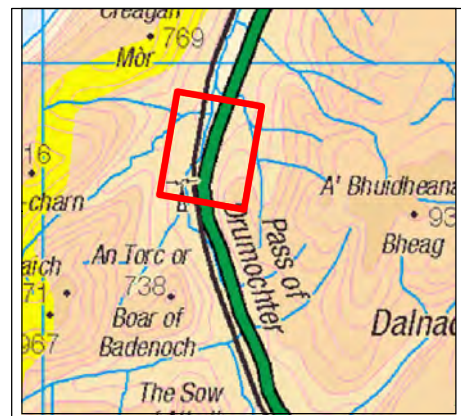
CULVERTS TO INCLUDE 'LOW FLOW CHANNEL' AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W31)

THE CALIBRE AND QUANTITY OF MATERIAL (TO BE USED IN REALIGNMENTS, STRUCTURES, AND CULVERTS) SHOULD BE DETERMINED ON A SITE-BY-SITE BASIS. IT SHOULD BE SPECIFIED AND CLEARLY JUSTIFIED. (P07-W32)

ALL CULVERTS TO HAVE A SCOUR POOL AT THE OUTFALL (P07-W33)

IDENTIFY AND DESIGN ENERGY DISSIPATION IN CULVERTS ON A SITE-BY-SITE BASIS E.G. STEP-POOL STRUCTURES (P07-W34)

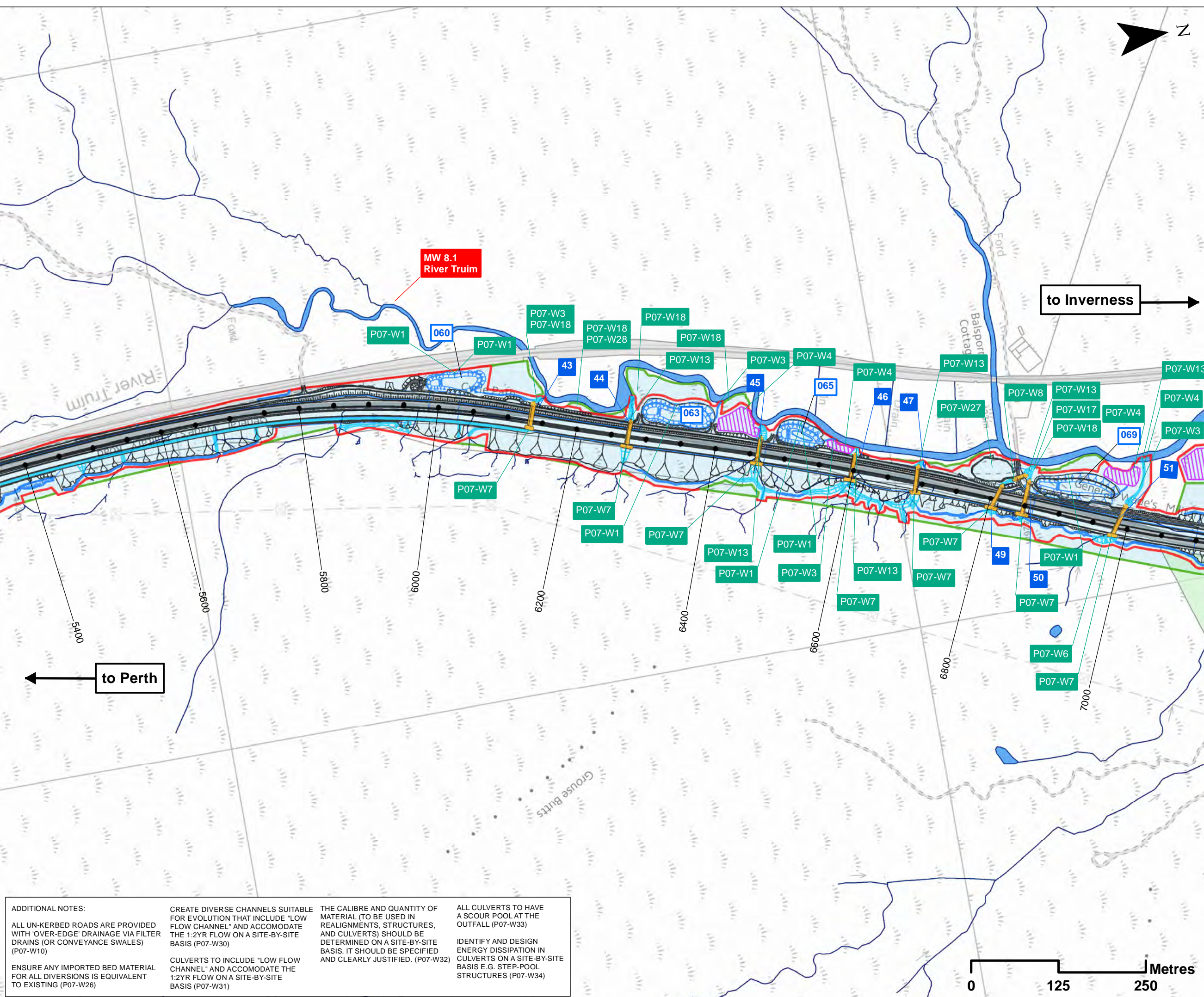




Legend

- Proposed Scheme Detail
- Watercourse Diversions
- Drainage
- Proposed Culverts
- 1 Major Watercourse Crossing
- 1 Minor Watercourse Crossing
- 001 SuDS ID
- P07 Mitigation Item
- Assessment Boundary - Permanent Works
- Assessment Boundary - Temporary Works
- Compensatory Storage Areas
- Detailed Study Area
- Surface Water Features

*Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing



ADDITIONAL NOTES:

ALL UN-KERBED ROADS ARE PROVIDED WITH 'OVER-EDGE' DRAINAGE VIA FILTER DRAINS (OR CONVEYANCE SWALES) (P07-W10)

ENSURE ANY IMPORTED BED MATERIAL FOR ALL DIVERSIONS IS EQUIVALENT TO EXISTING (P07-W26)

CREATE DIVERSE CHANNELS SUITABLE FOR EVOLUTION THAT INCLUDE "LOW FLOW CHANNEL" AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W30)

CULVERTS TO INCLUDE "LOW FLOW CHANNEL" AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W31)

THE CALIBRE AND QUANTITY OF MATERIAL (TO BE USED IN REALIGNMENTS, STRUCTURES, AND CULVERTS) SHOULD BE DETERMINED ON A SITE-BY-SITE BASIS. IT SHOULD BE SPECIFIED AND CLEARLY JUSTIFIED. (P07-W32)

ALL CULVERTS TO HAVE A SCOUR POOL AT THE OUTFALL (P07-W33)

IDENTIFY AND DESIGN ENERGY DISSIPATION IN CULVERTS ON A SITE-BY-SITE BASIS E.G. STEP-POOL STRUCTURES (P07-W34)

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | EC |
| REV | SUIT | DATE | DESCRIPTION | BY | APP |



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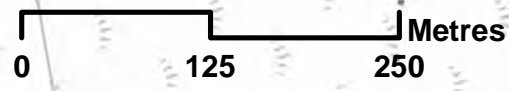


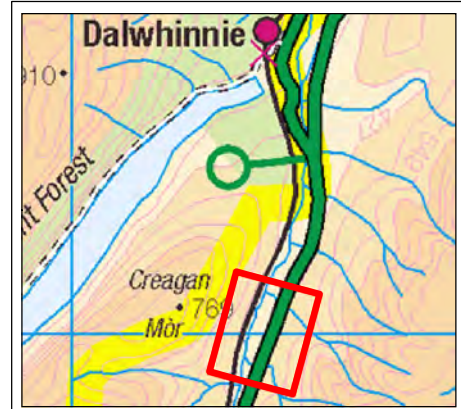
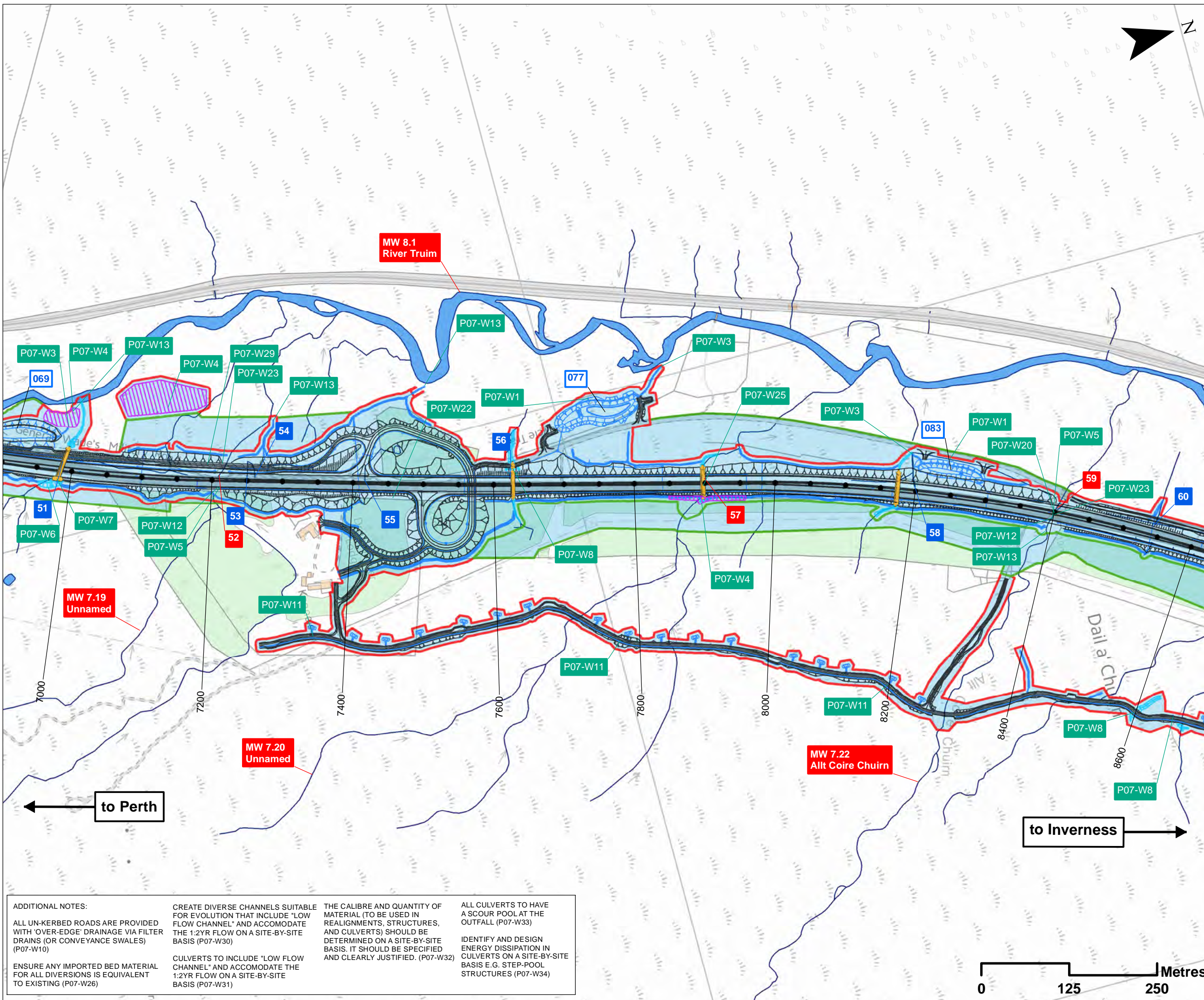
**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 ASSESSMENT PLAN
 DRAWING 11.20
 PROPOSED SCHEME MITIGATION
 chainage 5400 to 7000**

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| DESIGN: CP | DRAWN: CP | CHK: IM | APP: EC |
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DATE: 01/12/2017
 PROJ: 495298
 DWG: A9P07-CFJ-EWE-L_ML054_ZZ-DR-EN-0003

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| SHEET: 5 OF 7 | REVISION: C01 | SUITABILITY: A3 |
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- Legend**
- Proposed Scheme Detail
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing
 - 001 SuDS ID
 - P07 Mitigation Item
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - ▨ Compensatory Storage Areas
 - ▭ Detailed Study Area
 - ▭ Surface Water Features
- *Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

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| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
| P01 | S3 | JUN 2017 | DRAFT FOR COMMENT | CP | EC |
| REV | SUI | DATE | DESCRIPTION | BY | APP |

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 CH2MHILL Fairhurst JV
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**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 ASSESSMENT PLAN
 DRAWING 11.21
 PROPOSED SCHEME MITIGATION
 chainage 7000 to 8600**

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| DESIGN: CP | DRAWN: CP | CHK: IM | APP: EC |
| DATE: 29/11/2017 | | | |
| PROJ: 495298 | | | |
| DWG: A9P07-CFJ-EWE-L_ML070_ZZ-DR-EN-0003 | | | |
| SHEET: 6 OF 7 | REVISION: C01 | SUITABILITY: A3 | |

ADDITIONAL NOTES:

ALL UN-KERBED ROADS ARE PROVIDED WITH 'OVER-EDGE' DRAINAGE VIA FILTER DRAINS (OR CONVEYANCE SWALES) (P07-W10)

ENSURE ANY IMPORTED BED MATERIAL FOR ALL DIVERSIONS IS EQUIVALENT TO EXISTING (P07-W26)

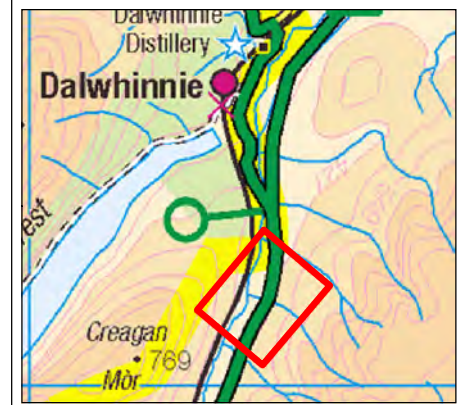
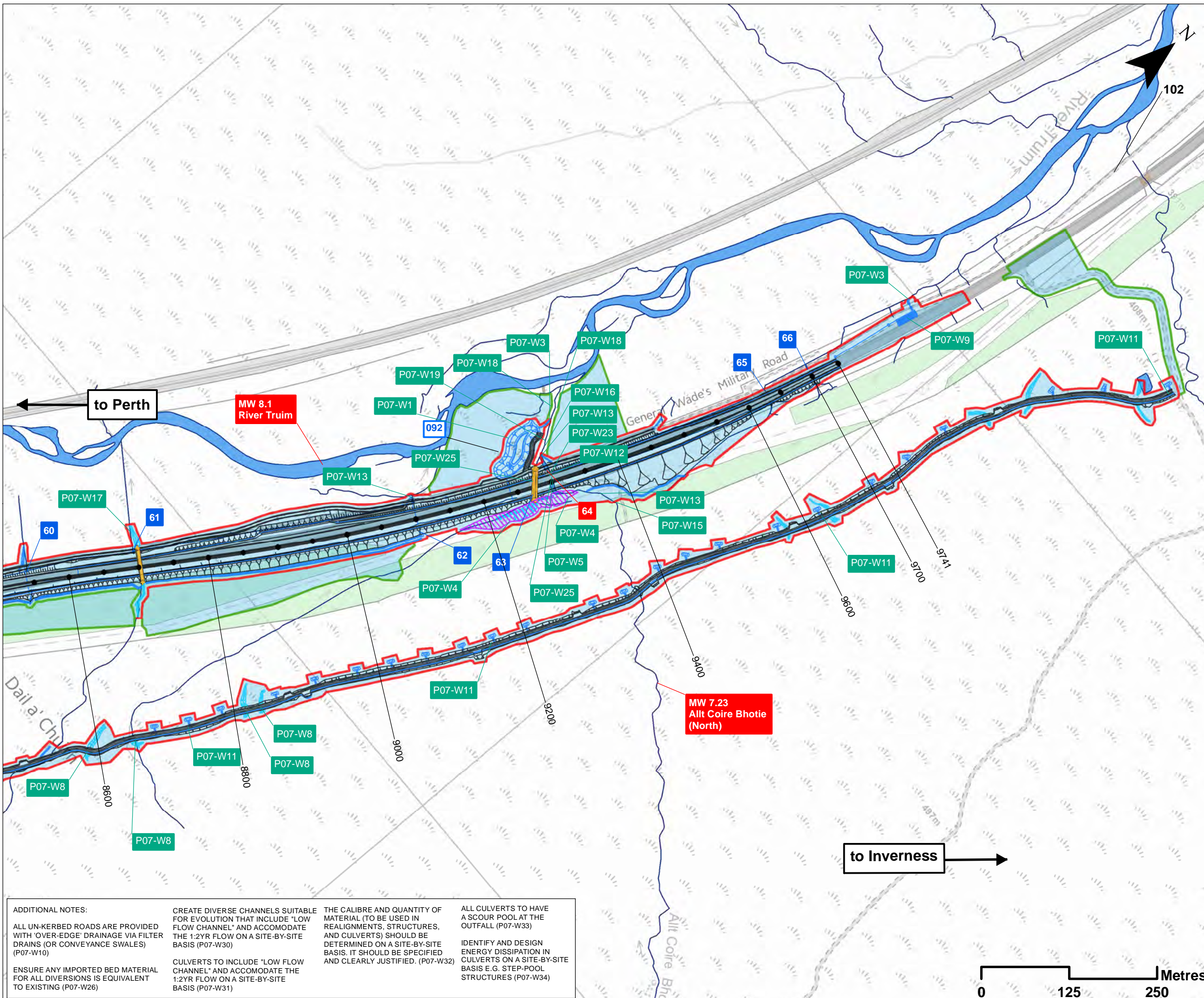
CREATE DIVERSE CHANNELS SUITABLE FOR EVOLUTION THAT INCLUDE "LOW FLOW CHANNEL" AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W30)

CULVERTS TO INCLUDE "LOW FLOW CHANNEL" AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W31)

THE CALIBRE AND QUANTITY OF MATERIAL (TO BE USED IN REALIGNMENTS, STRUCTURES, AND CULVERTS) SHOULD BE DETERMINED ON A SITE-BY-SITE BASIS. IT SHOULD BE SPECIFIED AND CLEARLY JUSTIFIED. (P07-W32)

IDENTIFY AND DESIGN ENERGY DISSIPATION IN CULVERTS ON A SITE-BY-SITE BASIS E.G. STEP-POOL STRUCTURES (P07-W34)

ALL CULVERTS TO HAVE A SCOUR POOL AT THE OUTFALL (P07-W33)



- Legend**
- Proposed Scheme Detail
 - Watercourse Diversions
 - Drainage
 - Proposed Culverts
 - 1 Major Watercourse Crossing
 - 1 Minor Watercourse Crossing
 - 001 SuDS ID
 - P07 Mitigation Item
 - Assessment Boundary - Permanent Works
 - Assessment Boundary - Temporary Works
 - ▨ Compensatory Storage Areas
 - ▭ Detailed Study Area
 - ▭ Surface Water Features

*Labels shown where there are no "Proposed Culverts" shown indicate the location of an existing major or minor watercourse crossing

SCALE 1:5000

| REV | SUI | DATE | DESCRIPTION | BY | APP |
|-----|-----|-----------|-------------------|----|-----|
| P03 | S3 | NOV 2017 | FINAL REVISIONS | CP | EC |
| P02 | S3 | SEPT 2017 | DESIGN UPDATE | CP | EC |
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**PROJECT 7 GLEN GARRY TO DALWHINNIE EIA
 ASSESSMENT PLAN
 DRAWING 11.22
 PROPOSED SCHEME MITIGATION
 chainage 8600 to 9741**

| | | | |
|---------------|--------------|------------|------------|
| DESIGN: CP | DRAWN: CP | CHK: IM | APP: EC |
|---------------|--------------|------------|------------|

DATE: 01/12/2017
 PROJ: 495298

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| DWG: A9P07-CFJ-EWE-L ML086_ZZ-DR-EN-0003 | | |
| SHEET: 7 OF 7 | REVISION: C01 | SUITABILITY: A3 |

ADDITIONAL NOTES:

ALL UN-KERBED ROADS ARE PROVIDED WITH 'OVER-EDGE' DRAINAGE VIA FILTER DRAINS (OR CONVEYANCE SWALES) (P07-W10)

ENSURE ANY IMPORTED BED MATERIAL FOR ALL DIVERSIONS IS EQUIVALENT TO EXISTING (P07-W26)

CREATE DIVERSE CHANNELS SUITABLE FOR EVOLUTION THAT INCLUDE "LOW FLOW CHANNEL" AND ACCOMMODATE THE 1:2YR FLOW ON A SITE-BY-SITE BASIS (P07-W30)

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IDENTIFY AND DESIGN ENERGY DISSIPATION IN CULVERTS ON A SITE-BY-SITE BASIS E.G. STEP-POOL STRUCTURES (P07-W34)

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