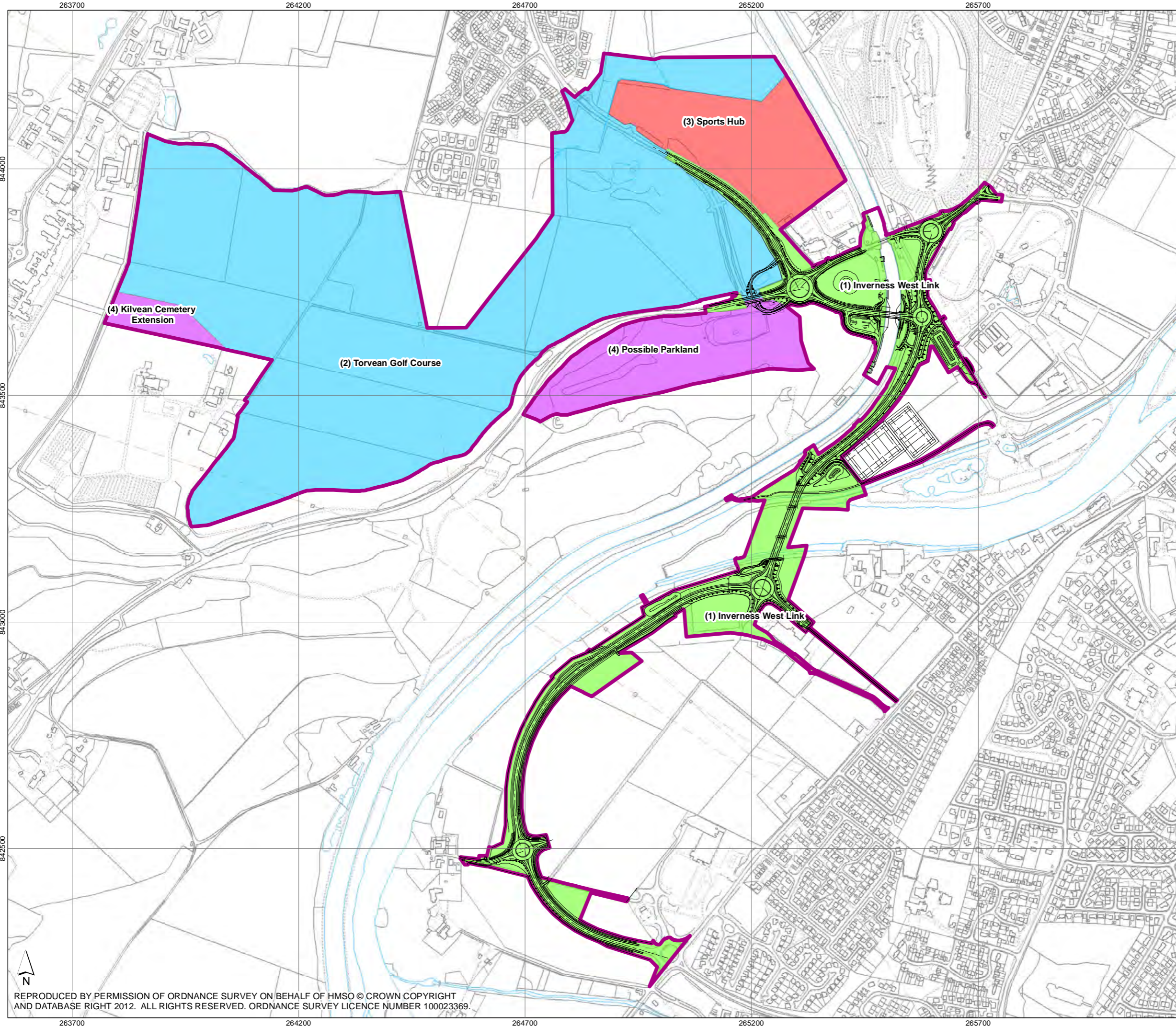


T:\CS059146 Inverness West Link Road\2 Project File\2 Work Activity\2 Environment Team\14 GIS\2_MXD\2_ES\FINAL\CS059146_E_V2-S02_002_IWL and Associated Project Boundary Areas.mxd



KEY:

Phase

- 1 - IWL (Section 1 and 2)
- 2 - Torvean Golf Course
- 3 - Sports Hub
- 4 - Kilvean Cemetery Extension and Parkland

REV	DATE	DESCRIPTION	CKD	APD

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PROJECT:
THE INVERNESS WEST LINK AND ASSOCIATED PROJECTS

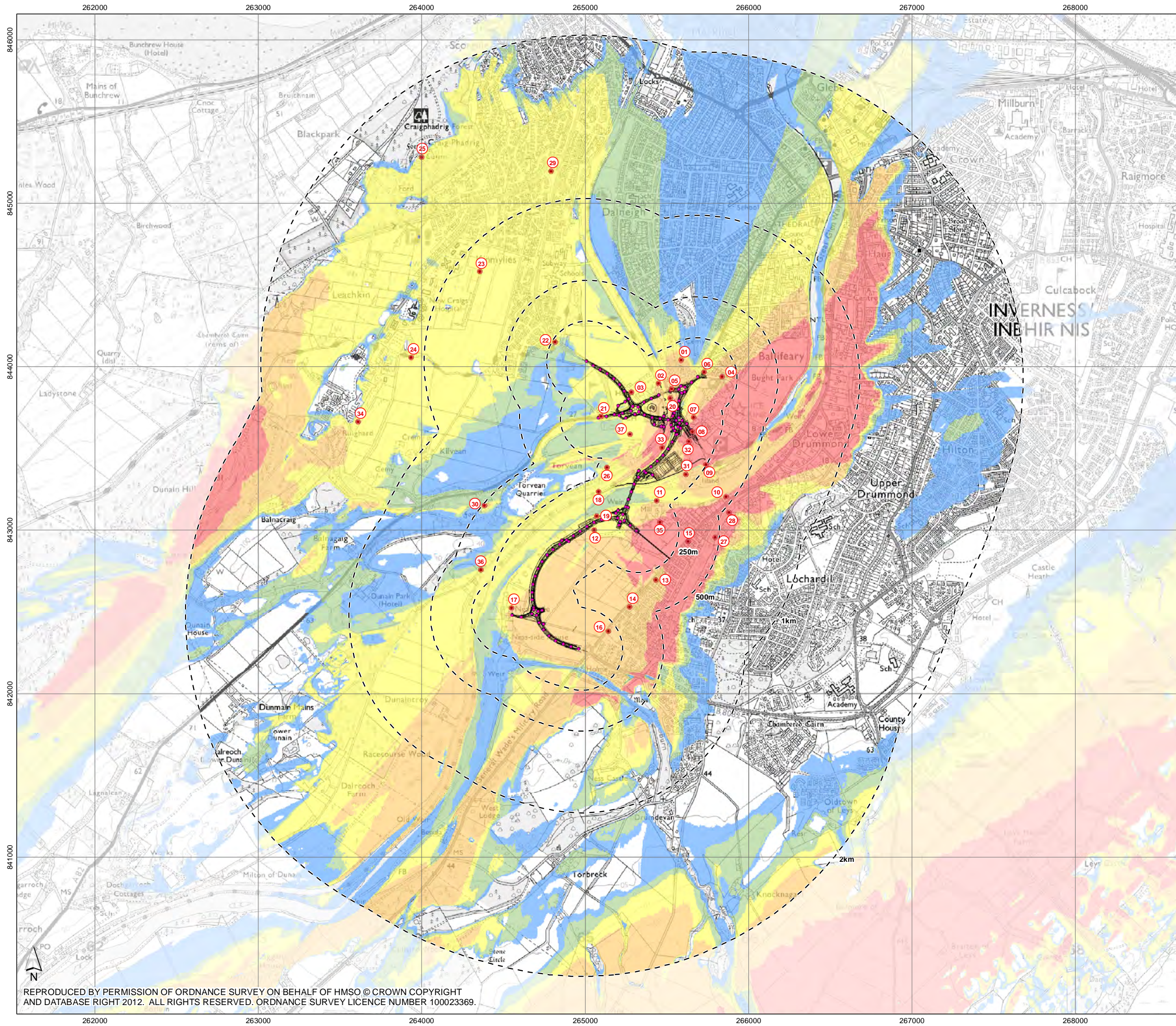
DESIGN PROJECT REF: CS/059146	CLIENT PROJECT REF: HRS7126
SCALE @ A3 1:8,000	DATE 27/09/2013

TITLE:
PLAN V2-S02/002
THE INVERNESS WEST LINK AND ASSOCIATED PROJECT BOUNDARY AREAS

DRAWING NUMBER: CS/059164/E/V2-S02/002	REV: -
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T:\CS059146 Inverness West Link Road2 Project File\2 Work Activity\2 Environment Team\14 GIS\2_MXD2_ES\FINAL\CS059146_E_V2-S10_003 Route Alignment ZTV - 2km (Bare Earth).mxd



KEY:

- Route Centreline Distance Markers
- Visual Impact Assessment Points (LVIA)
- Spot Heights - Route Alignment

Zones of Theoretical Visibility (Bare Earth)

% of spot heights visible

- Not Visible
- upto 20% Visible
- 20 - 40% Visible
- 40 - 60% Visible
- 60 - 80% Visible
- 80 - 100% Visible
- No Data

- Notes:**
1. This ZTV has been prepared to good practice guidelines (SNH, 2006). It is intended to show potential theoretical visibility only and should not be viewed as an indication of the significance or magnitude of visual impacts.
 2. The effects of weather and atmospheric conditions in reducing visual range have not been accounted for.
 3. The screening effects of vegetation and other surface features have not been accounted for.
 4. Calculations based on the theoretic visibility of 117 spot heights set at ~50m intervals along the proposed route alignment centreline and adjoining footpath links.
 5. Observer height set to 2m above ground level.
 6. 4m's have been added to the spot heights of the proposed road to account for visibility of HGVs.
 7. Calculated from DTM data supplied by Getmapping Plc, at a 5m posting (vertical accuracy +/- 60cm RMSE, horizontal accuracy < +/- 40cm RMSE).
 8. DTM coverage limited upto 10km unless otherwise indicated.
 9. Calculations adjusted to account for the earth's curvature and effects of light refraction.
 10. Calculations limited to a distance of 10km.
 11. ZTVs calculated by software (ESRI ArcGIS Spatial Analyst) that does not use mathematically approximate methods.

REV	DATE	DESCRIPTION	CKD	APD

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PROJECT:
THE INVERNESS WEST LINK AND ASSOCIATED PROJECTS

DESIGN PROJECT REF: CS/059146	CLIENT PROJECT REF: HRS7126
SCALE @ A3 1:22,000	DATE 02/10/2013

TITLE

PLAN V2-S10/003
ROUTE ALIGNMENT ZONES OF THEORETICAL VISIBILITY AT 2KM (BARE EARTH)

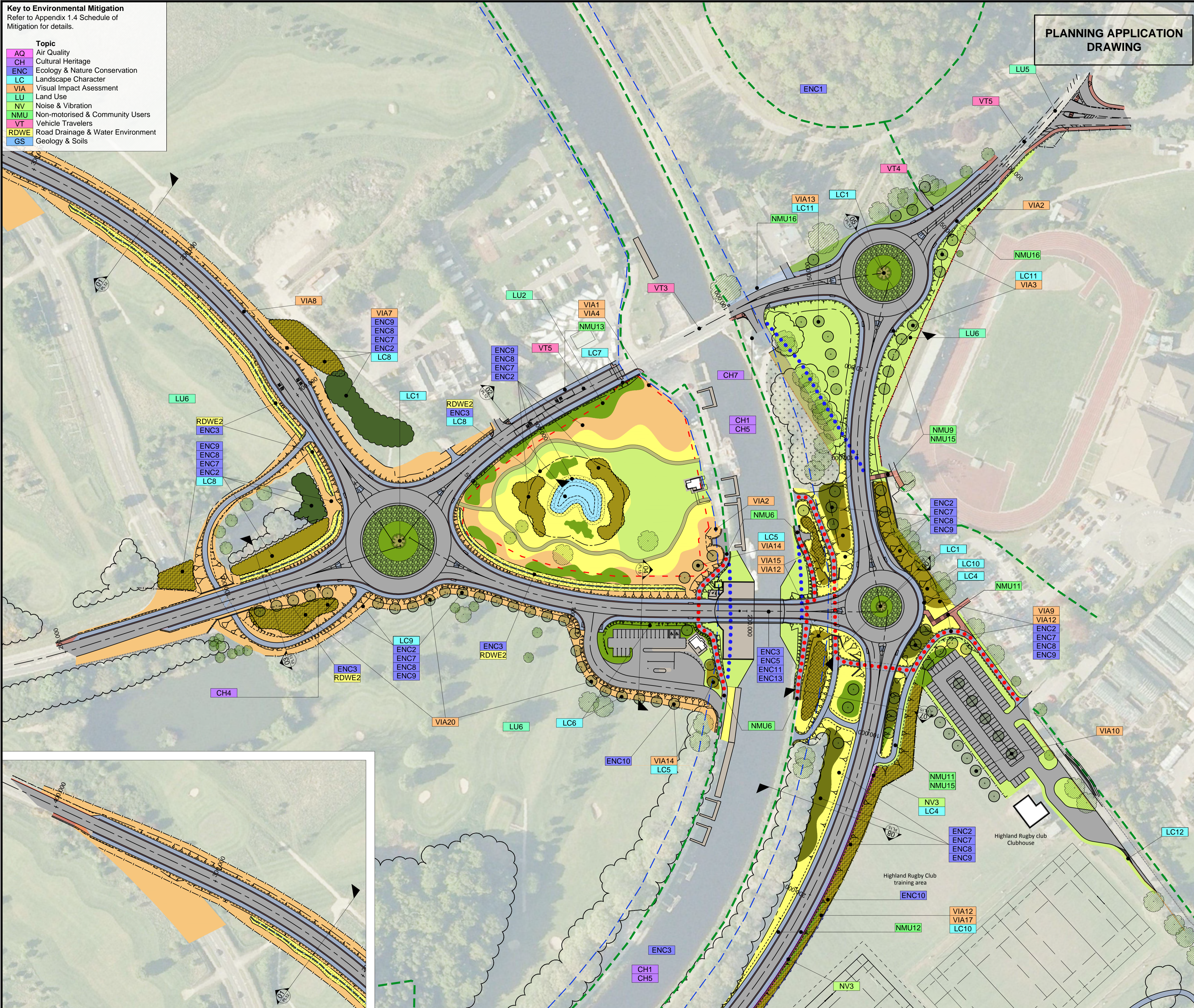
DRAWING NUMBER: CS/059164/E/V2-S10/003	REV: -
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Key to Environmental Mitigation
Refer to Appendix 1.4 Schedule of Mitigation for details.

Topic	
AQ	Air Quality
CH	Cultural Heritage
ENC	Ecology & Nature Conservation
LC	Landscape Character
VIA	Visual Impact Assessment
LU	Land Use
NV	Noise & Vibration
NMU	Non-motorised & Community Users
VT	Vehicle Travelers
RDWE	Road Drainage & Water Environment
GS	Geology & Soils

PLANNING APPLICATION DRAWING



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- LANDSCAPE PLANTING AND FEATURES**
- LE 1.1 Amenity grassland
 - LE 1.3 Mix A: MGS Community Wildflower Grassland
LE 1.3 Mix B: Damp Wildflower Grassland.
 - LE 1.6 Mix A: Open Grassland - low maintenance
LE 1.6 Mix B: Pasture Grassland
 - Woodland bulb planting to existing mature woodland
 - LE 2.1a New mixed woodland
LE 2.1b New fast growing mixed woodland
 - LE2.2 New mixed woodland edge
 - LE2.6a Continuous Native shrub planting >2m high
LE2.6b Continuous shrub planting <2m high
LE2.6c Continuous shrub planting <300mm
 - LE2.8 New mixed native scrub with scattered trees (90:10% Shrubs:trees over 75% of plot area)
 - Existing scrub retained
 - LE3.3 Ornamental ground cover mix
 - LE 5.1 individual trees - Larger Stock
 - LE6.1 Type A: Retention pond (fixed WL)
LE6.1 Type B: Detention pond (Variable WL)
Both with marginal aquatic vegetation
 - LE 6.2 New drainage ditch
 - Land returned to arable agriculture (topsoil only).
 - Existing ponds
Existing individual trees retained
- Refer to Doc CS059146/PL/RPT/001 for supplementary information on Landscape Planting Proposals
- Post and wire fencing
 - Ball stop netting with otter access beneath
 - Sports Chain link fence -TBA
 - New stone wall - Landscape character mitigation
 - Existing stone wall
 - Temporary compound or topsoil mound
To be detailed at detailed design stage
- NOISE MITIGATION**
- New stone wall 900mm high
 - Landscaped bund
- NON-MOTORISED USER MITIGATION**
- Existing core path
 - Diverted core path
 - Footpath stopped up
 - Proposed shared use cycleway/footway
 - Proposed pedestrian only footway
 - Cultural heritage boundary

- Revision Details**
- | By | Date | Surf. |
|----|------|-------|
| | | |

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E-Mail : jim.smith@highland.gov.uk

Project: **The Highland Council (Inverness West Link) Planning Application**

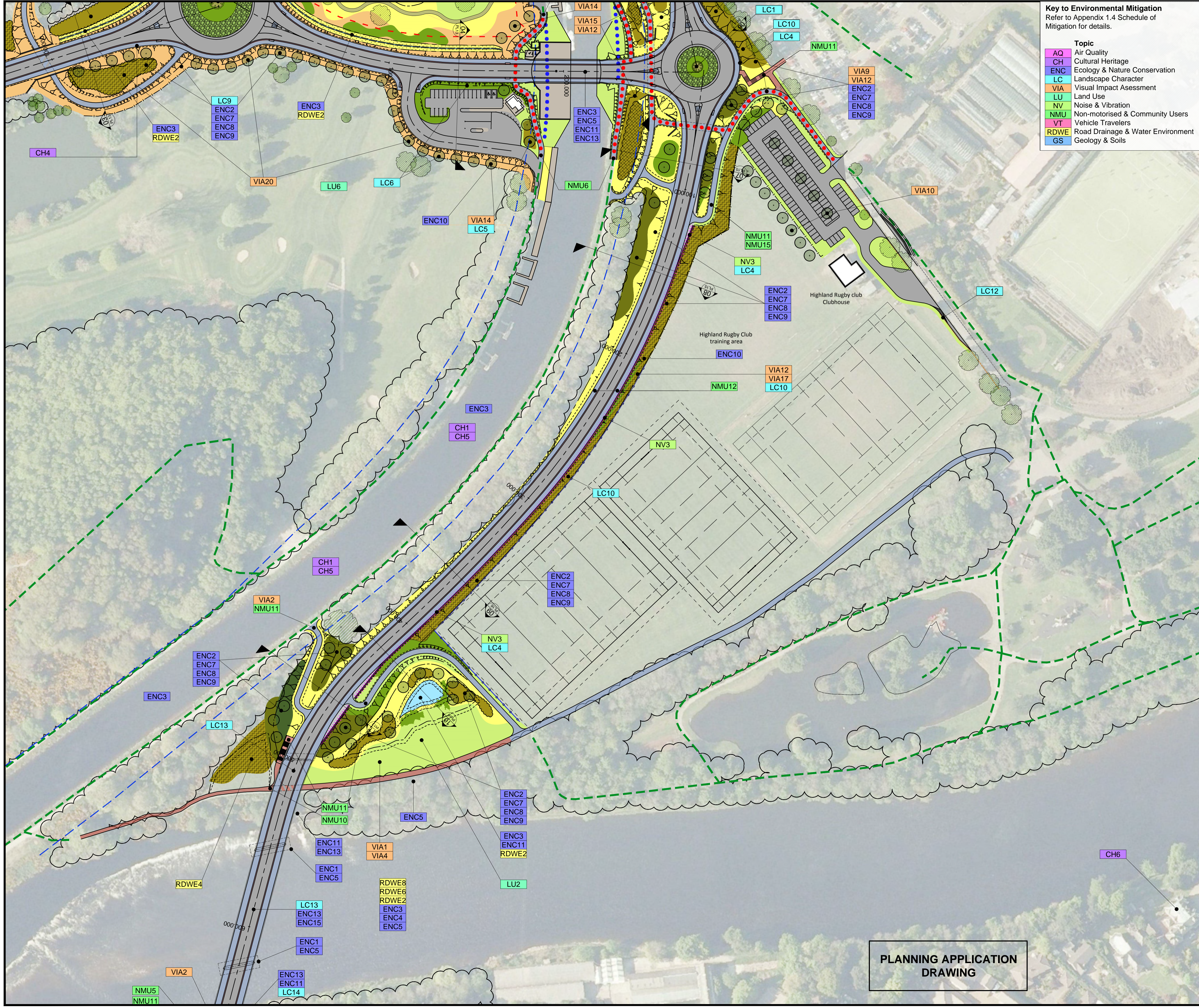
Title: **Landscape Design and Mitigation Sheet 1**

Scale (at A1): **1 : 1000**

Drawn: AP	Date: 03/10/13
Checked: PB	Date: 03/10/13

Project No: **HRS7126**

Drawing No: **V2-S35/001** Rev: -



Key to Environmental Mitigation
Refer to Appendix 1.4 Schedule of Mitigation for details.

Topic	Mitigation Code
Air Quality	AQ
Cultural Heritage	CH
Ecology & Nature Conservation	ENC
Landscape Character	LC
Visual Impact Assessment	VIA
Land Use	LU
Noise & Vibration	NV
Non-motorised & Community Users	NMU
Vehicle Travelers	VT
Road Drainage & Water Environment	RDWE
Geology & Soils	GS

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LANDSCAPE PLANTING AND FEATURES

[Pattern]	LE 1.1 Amenity grassland
[Pattern]	LE 1.3 Mix A: MGS Community Wildflower Grassland
[Pattern]	LE 1.3 mix B: Damp Wildflower Grassland.
[Pattern]	LE 1.6 Mix A: Open Grassland - low maintenance
[Pattern]	LE 1.6 Mix B: Pasture Grassland
[Pattern]	Woodland bulb planting to existing mature woodland
[Pattern]	LE 2.1a New mixed woodland
[Pattern]	LE 2.1b New fast growing mixed woodland
[Pattern]	LE2.2 New mixed woodland edge
[Pattern]	LE2.6a Continuous Native shrub planting >2m high
[Pattern]	LE2.6b Continuous shrub planting <2m high
[Pattern]	LE2.8c Continuous shrub planting <300mm
[Pattern]	LE2.8 New mixed native scrub with scattered trees (90:10% Shrubs:trees over 75% of plot area)
[Pattern]	Existing scrub retained
[Pattern]	LE3.3 Ornamental ground cover mix
[Pattern]	LE 5.1 individual trees - Larger Stock
[Pattern]	LE6.1 Type A: Retention pond (fixed WL)
[Pattern]	LE6.1 Type B: Detention pond (Variable WL)
[Pattern]	Both with marginal aquatic vegetation
[Pattern]	LE 6.2 New drainage ditch
[Pattern]	Land returned to arable agriculture (topsoil only).
[Pattern]	Existing ponds
[Pattern]	Existing individual trees retained

Refer to Doc CS059146/PL/RPT/001 for supplementary information on Landscape Planting Proposals

NOISE MITIGATION

- New stone wall 900mm high
- Landscape bund

NON-MOTORISED USER MITIGATION

- Existing core path
- Diverted core path
- Footpath stopped up
- Proposed shared use cycleway/footway
- Proposed pedestrian only footway
- Cultural heritage boundary

Revision	Details	By	Date	Surf.

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Project: **The Highland Council (Inverness West Link) Planning Application**

Title: **Landscape Design and Mitigation Sheet 2**

Scale (at A1): **1 : 1000**

Drawn: AP	Date: 03/10/13
Checked: PB	Date: 03/10/13

Project No: **HRS7126**

Drawing No: V2-S35/002	Rev: -
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PLANNING APPLICATION DRAWING

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- New Inverness West Link
- LANDSCAPE PLANTING AND FEATURES**
- LE 1.1 Amenity grassland
- LE 1.3 Mix A: MG5 Community Wildflower Grassland
LE 1.3 mix B: Damp Wildflower Grassland.
- LE 1.6 Mix A: Open Grassland - low maintenance
LE 1.6 Mix B: Pasture Grassland
- Woodland bulb planting to existing mature woodland
- LE 2.1a New mixed woodland
LE 2.1b New fast growing mixed woodland
- LE 2.2 New mixed woodland edge
- LE 2.6a Continuous Native shrub planting >2m high
LE 2.6b Continuous shrub planting <2m high
LE 2.6c Continuous shrub planting <300mm
- LE 2.8 New mixed native scrub with scattered trees (90:10% Shrubs:trees over 75% of plot area)
- Existing scrub retained
- LE 3.3 Ornamental ground cover mix
- LE 5.1 individual trees - Larger Stock
- LE 6.1 Type A: Retention pond (fixed WL)
LE 6.1 Type B: Detention pond (Variable WL)
Both with marginal aquatic vegetation
- LE 6.2 New drainage ditch
- Land returned to arable agriculture (topsoil only).
- Existing ponds
Existing individual trees retained
- Refer to Doc CS059146/PL/RPT/001 for supplementary information on Landscape Planting Proposals
- Post and wire fencing
- Ball stop netting with other access beneath
- Sports Chain link fence -TBA
- New stone wall - Landscape character mitigation
- Existing stone wall
- Temporary compound or topsoil mound
- Proposed feature/sculpture around lighting column
To be detailed at detailed design stage
- NOISE MITIGATION**
- New stone wall 900mm high
- Landscaped bund
- NON-MOTORISED USER MITIGATION**
- Existing core path
- Diverted core path
- Footpath stopped up
- Proposed shared use cycleway/footway
- Proposed pedestrian only footway
- Cultural heritage boundary

Revision	Details	By	Date	Surf.

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Project: **The Highland Council (Inverness West Link) Planning Application**

Title: **Landscape Design and Mitigation Sheet 3**

Scale (at A1): **1 : 1000**

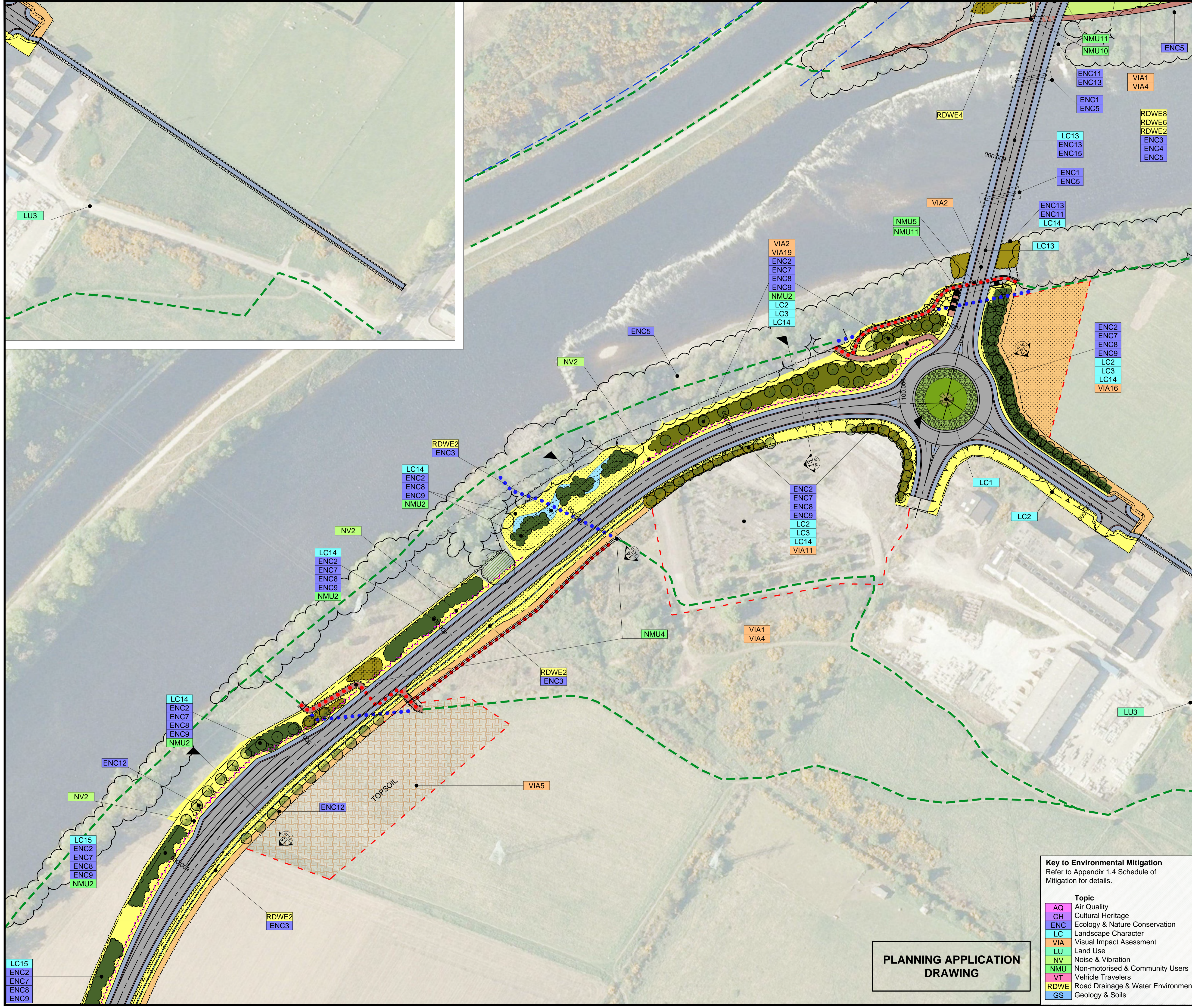
Drawn: AP Date: 03/10/13
 Checked: PB Date: 03/10/13

Project No: **HRS7126**

Drawing No: **V2-S35/003** Rev: -

- Key to Environmental Mitigation**
 Refer to Appendix 1.4 Schedule of Mitigation for details.
- | Topic | Symbol |
|-----------------------------------|--------|
| Air Quality | AQ |
| Cultural Heritage | CH |
| Ecology & Nature Conservation | ENC |
| Landscape Character | LC |
| Visual Impact Assessment | VIA |
| Land Use | LU |
| Noise & Vibration | NV |
| Non-motorised & Community Users | NMU |
| Vehicle Travelers | VT |
| Road Drainage & Water Environment | RDWE |
| Geology & Soils | GS |

PLANNING APPLICATION DRAWING



LC15
ENC2
ENC7
ENC8
ENC9

LC14
ENC2
ENC7
ENC8
ENC9
NMU2

ENC12

ENC12

RDWE2
ENC3

TOPSOIL

VIA5

ENC2
ENC7
ENC8
ENC9
LC2
LC3
LC14
VIA11

VIA1
VIA4

ENC2
ENC7
ENC8
ENC9
LC2
LC3
LC14
VIA11

ENC2
ENC7
ENC8
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ENC7
ENC8
ENC9
LC2
LC3
LC14
VIA11

ENC2
ENC7
ENC8
ENC9
LC2
LC3
LC14
VIA11

Key to Environmental Mitigation
Refer to Appendix 1.4 Schedule of Mitigation for details.

Topic	
AO	Air Quality
CH	Cultural Heritage
ENC	Ecology & Nature Conservation
LC	Landscape Character
VIA	Visual Impact Assessment
LU	Land Use
NV	Noise & Vibration
NMU	Non-motorised & Community Users
VT	Vehicle Travelers
RDWE	Road Drainage & Water Environment
GS	Geology & Soils



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LANDSCAPE PLANTING AND FEATURES	
	LE 1.1 Amenity grassland
	LE 1.3 Mix A: MGS Community Wildflower Grassland LE 1.3 Mix B: Damp Wildflower Grassland
	LE 1.6 Mix A: Open Grassland - low maintenance LE 1.6 Mix B: Pasture Grassland
	Woodland bulb planting to existing mature woodland
	LE 2.1a New mixed woodland LE 2.1b New fast growing mixed woodland
	LE2.2 New mixed woodland edge
	LE2.6a Continuous Native shrub planting >2m high LE2.6b Continuous shrub planting <2m high LE2.6c Continuous shrub planting <300mm
	LE2.8 New mixed native scrub with scattered trees (90:10% Shrubs: trees over 75% of plot area)
	Existing scrub retained
	LE3.3 Ornamental ground cover mix
	LE 5.1 individual trees - Larger Stock
	LE6.1 Type A: Retention pond (fixed WL) LE6.1 Type B: Retention pond (Variable WL) Both with marginal aquatic vegetation
	LE 6.2 New drainage ditch
	Land returned to arable agriculture (topsoil only).
	Existing ponds Existing individual trees retained
Refer to Doc CS059146/PL/RPT/001 for supplementary information on Landscape Planting Proposals	
	Post and wire fencing
	Ball stop netting with other access beneath
	Sports Chain link fence - TBA
	New stone wall - Landscape character mitigation
	Existing stone wall
	Temporary compound or topsoil mound
	Proposed feature/sculpture around lighting column To be detailed at detailed design stage
NOISE MITIGATION	
	New stone wall 900mm high
	Landscaped bund
NON-MOTORISED USER MITIGATION	
	Existing core path
	Diverted core path
	Footpath stopped up
	Proposed shared use cycleway/footway
	Proposed pedestrian only footway
	Cultural heritage boundary

Revision	Details	By	Date	Sur's

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Project: **The Highland Council (Inverness West Link) Planning Application**

Title: **Landscape Design and Mitigation Sheet 4**

Scale (at A1): **1 : 1000**

Drawn	AP	Date	03/10/13
Checked	PB	Date	03/10/13

Project No: **HRS7126**

Drawing No:	V2-S35/004	Rev:	-
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