



**RESIDUAL DESIGN HAZARDS**  
 (The following information has been collected from Preconstruction Information and the AmeyArup CDM Hazard Management Process.)

- LEGEND**
- Significant Environmental Issues
  - Site of Special Scientific Interest (SSSI)
  - Scheduled Monuments
  - Inventory of Historic Battlefields
  - Inventory of Gardens and Designed Landscapes
  - Category A Listed Building
- Environmental appraisal impact**
- Major Adverse Impact alignment section
  - Moderate Adverse Impact alignment section
  - Minor Adverse Impact alignment section

P02	Final	AC	JC	FM	NH	AF
		17/04/18	18/04/18	18/04/18	18/04/18	18/04/18
P01	Draft	AC	JC	FM	NH	AF
		10/04/2018	11/04/2018	11/04/2018	12/04/2018	13/04/2018
Revision	Revision details	Created	Checked	Reviewed	Approved	Authorised
		dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

Designer  
 Precision House  
 McNeill Drive  
 Motherwell  
 ML1 4UR



Client  
 58 Port Dundas Road  
 Glasgow  
 G4 0HF



Project Name  
**A96 Dualling: East of Huntly to Aberdeen**

Drawing Title  
**First Fix Environmental Appraisal of Alignment BS01**

Project Ref. No. 250002-92	Stage Stage 2	Scale : 1:25,000 Dimensions :	@A1
-------------------------------	------------------	----------------------------------	-----

Drawing Number	Project	Originator	Volume
A96PEA - AMAR - EGN - CB	- AMAR - EGN - CB	- DR-EN - 000003	
Location	Type	Role	Number

Suitability S4	Suitability Description Fit for Stage Approval	Revision P02
-------------------	---	-----------------

© Crown copyright and database right (2017). All rights reserved. Ordnance Survey Licence number 100046668  
 Contains Historic Environment Scotland and Ordnance Survey data © Historic Environment Scotland - Scottish Charity No. SC045925 © Crown copyright and database right 2018  
 Copyright Scottish Natural Heritage Contains Ordnance Survey data © Crown copyright and database right 2018

Alignment	Landscape and visual impact	Landscape and visual commentary	Water	Water commentary	Ecology	Ecology commentary	People and community	People and community commentary	Noise	Noise commentary	Air quality	Air quality commentary	Cultural heritage	Cultural heritage commentary	Plans and policies	Plans and policies commentary	Soil and geology	Soil and geology commentary
BS-001		The alignment is assessed as having Major adverse impacts due to the crossings of the River Don which will result in the introduction of large structures, substantial earthworks and loss of woodland in an area of small scale landscape character.		Route crosses the River Don (ch.4600) where floodplain is <100m wide (minor adverse). Route is parallel to the River Don without crossing it at ch.3650m - potential river realignment (moderate adverse). Realignment of the River Don should be avoided and the route would therefore need to be moved further from the channel.		New crossing of the River Don required and additional minor watercourse crossings. Fragmentation of blocks of woodland and woodland. It is assumed that no realignment of the watercourses is needed.		Receptors include: Drimmies Farm - Business Strathburn Primary School ~2.02km east of the alignment Kellands Primary ~1.02km Port Elphinstone Primary School ~0.54km Inverurie Hospital ~0.73km Inverurie Golf Club located adjacent the alignment No non-motorised use (NMU) receptors but increased journey times could be possible. Properties to be demolished or partially demolished: Drimmies Farm - Residential property and outbuildings Alton Cottages - Residential Ardannes Cottages - derelict building Ardannes Bungalow and farm Crickie Cottages (6 residential)		Potential noticeable decrease to level of current noise climate at Inverurie, resulting from rerouting traffic via new roads. The increase to noise from the new roads, potentially impacts communities with a relative medium population count, which are located close to the new roads.		All options move the alignment substantially away from Inverurie with respect to the baseline. The population density in these areas is very low and background air quality is good.  Routes 001 and 003 pass through planning application APP/2013/0267, which is currently under review.		There is one area of major constraint on this alignment, close to St Apollinaris Chapel and Burial ground (Scheduled Monument - SM12118). The proximity of the alignment to this SM means it would have an effect upon its setting. At its southern end the alignment cuts through the eastern edge of the non-inventory Garden and Designed Landscape (GDL) which forms the setting for Thainstone House Category B Listed Building (LB9152). As the existing A96 road already runs along this boundary, it would probably not cause a major effect on setting.		Route passes through the settlement Port Elphinstone and directly through a number of associated LDP Opportunity Sites for residential development, as well as protected green space. With regards to committed development an application for 737 Dwelling houses, Business and Industrial Development, Community Facilities including Primary School and Associated Infrastructure, which is currently under consideration (ref: APP/2013/0267).		Small areas of prime agricultural land, contaminated land (worked ground in two locations, tank), and mineral resources.
BS-002		The alignment has a single crossing of the River Don with 4.1km of the alignment within Bennachie Special Landscape Area (SLA). It will result in limited loss of woodland. However, given the impacts on the SLA the impacts are assessed as Major adverse. Between ch. 2100 and ch. 6250 the alignment passes through Bennachie SLA and the impacts have been assessed as Major adverse for this section. Within this section of the alignment there are subsections where the metrics associated only with earthworks, loss of woodland and number of visual receptors indicate a Moderate adverse impact. However, the SLA designation and the high quality landscape mean that the section as a whole is assessed as Major adverse.		Route crosses the extensive floodplain of the River Don (ch.4850m) and Bridgealehouse Burn (ch.10300m). Crossings are perpendicular to flow (moderate adverse).		Considerable fragmentation of ancient woodland blocks and woodlands, which form a large sensitive area west of Inverurie. New significant crossing of the River Don required as well as a number of more minor watercourse crossings within the currently ecologically sensitive landscape west of Inverurie. Severance of ecological corridors to the west, ultimately leading to Bennachie.		Approximately 45 properties lie within the alignment: Residential property Mill House Kiln - Barn 2 Cloverstone Lodge. Glen Nevis Cottage plus outbuilding. 55 Forest Road plus outbuilding. Cluster of property on Castleview Avenue and Castleview Close, Kintore (40+) Business property: S&C Security and Electrical Ltd Prime and non-prime agricultural land located along section, and the alignment passes through areas of class 3.1. There are no class 1 or 2 areas.		There is noticeable potential decrease to level of the existing noise climate in Inverurie resulting from the introduction of new roads and rerouting of existing traffic. However, changes to the noise climate may take place upon communities with a relative high population count, which are located close to the new roads.		All options move the alignment substantially away from Inverurie with respect to the baseline. The population density in these areas is very low and background air quality is good.  The areas where the alignments tie in to the south brings 002, 003, 004 and 005 within 200m of dense settlements in the areas of Port Elphinstone and Kintore and as such are classed as Minor beneficial.  Routes 001 and 003 pass through planning application APP/2013/0267, which is currently under review.		At the north end of the route there is a likely impact on the settings of Balquhain stone circle (SM3961) and Balquhain Castle (SM90), which have key views to the south-east and east respectively. The proximity of the route to St Apollinaris Chapel and Burial ground (SM12118) means there would likely be a significant impact upon its setting. However this area has been highlighted as a 'red area' due to the limited area available due to the proximity of the town of Kintore.  The Deers Den roundhouses (SM12465) would be avoided, however this area has been highlighted as a 'red area' due to the limited area available due to the proximity of the town of Kintore.		The route does not pass through any LDP allocations or settlements. It does pass directly through a single small committed development site.		Large stretches of prime agricultural land, contaminated land (infilled ground, worked ground, railway), and mineral resources.
BS-003		Approximately 4.7km of the alignment passes through Bennachie SLA. In the north the alignment will impact upon panoramic views from the edge of the SLA to the west of Chapel of Garloch looking north. There will also be considerable earthworks within the SLA to the southeast of Chapel of Garloch. Loss of woodland along the length of the alignment contributes to the overall rating of Major adverse.		Route crosses the extensive floodplain of the River Don (ch.9250m) and is not perpendicular to flow (minor adverse).		New crossing of the River Don required and additional minor watercourse crossings. Fragmentation of blocks of woodland and woodland, although located closer to the current A96 alignment.		Chapel of Garloch and Community hall ~0.33km Chapel of Garloch Primary School 0.73km No NMU receptors but increased journey times are possible. Port Elphinstone School 0.39km Alignment passes through a mix of 3.2 to 4.2 areas of non-prime agricultural land. There are two small sections of prime land of class 3.1.		Potential large increase to level of current noise climate as a result of introduction of new roads. This potential increase is identified upon communities with a relative high population count, including Inverurie.		All options move the alignment substantially away from Inverurie with respect to the baseline. The population density in these areas is very low and background air quality is good.  The areas where the alignments tie in to the south brings 002, 003, 004 and 005 within 200m of dense settlements in the areas of Port Elphinstone and Kintore and as such are classed as Minor beneficial.  Routes 001 and 003 pass through planning application APP/2013/0267, which is currently under review.		There are no major constraints associated with this alignment. The proximity of the alignment to the Maiden Stone (SM90210 and Property in Care) may cause impacts on its setting. The proximity of the alignment to Chapel of Garloch, Churchyard Gateway (Pittodrie's Yate) (LB2846) may cause impacts on its setting. This asset requires a field visit, as it cannot be readily inspected from online sources. As its southern end the alignment cuts through the eastern edge of the non-inventory GDL which forms the setting for Thainstone House Category B Listed Building (LB9152). As the existing A96 road already runs along this boundary, it would probably not cause a major effect on setting.		Route passes through the settlement Port Elphinstone and directly through a number of associated LDP Opportunity Sites for residential development, as well as protected green space. With regards to committed development an application for 737 Dwelling houses, Business and Industrial Development, Community Facilities including Primary School and Associated Infrastructure, which is currently under consideration (ref: APP/2013/0267).		Large stretches of prime agricultural land, Contaminated Land (worked ground in one location), Small areas of mineral resources.
BS-004		Approximately 7.7km of the alignment passes through Bennachie SLA. There will be large scale earthworks within the SLA and loss of woodland. Given these factors the overall rating is Major adverse.		Route crosses the extensive floodplain of the River Don (ch.8000m) and is perpendicular to flow (moderate adverse).		Considerable fragmentation of ancient woodland blocks and woodlands, which form a large sensitive area west of Inverurie. New significant crossing of the River Don required as well as a number of more minor watercourse crossings within the currently ecologically sensitive landscape west of Inverurie. Severance of ecological corridors to the west, ultimately leading to Bennachie.		5 properties lie within the alignment: Residential properties: Invercraig Tulalanda Heathbank Business properties: Breedon Tom's Forest Quarry access Road severed. Nixon Hire - Aberdeen Depot Prime and non-prime agricultural land located along section, and the alignment passes through areas of class 3.1. There are no class 1 or 2 areas.		There is noticeable potential decrease to level of the existing noise climate in Inverurie resulting from the introduction of new roads and rerouting of existing traffic. However, changes to the noise climate may take place upon communities with a relative high population count, which are located close to the new roads.		All options move the alignment substantially away from Inverurie with respect to the baseline. The population density in these areas is very low and background air quality is good.  The areas where the alignments tie in to the south brings 002, 003, 004 and 005 within 200m of dense settlements in the areas of Port Elphinstone and Kintore and as such are classed as Minor beneficial.		This alignment runs in close proximity to East Aquhorthies, stone circle (SM90216 & Property in Care), and to Castle of Halfforest (SM92), and is likely to result in significant impacts on their settings. Castle of Halfforest (SM92) requires a site visit to gain a greater understanding of its setting as it cannot be readily inspected from online sources.  The alignment cuts through the non-inventory GDL which forms the setting for Category B Listed Manor House (LB9074) and would thus affect its setting. The proximity of the alignment to The Maiden Stone (SM90210 and Property in Care) may cause impacts on its setting. The proximity of the alignment to Chapel of Garloch, Churchyard Gateway (Pittodrie's Yate) (LB2846) may cause impacts on its setting. This asset requires a field visit, as it cannot be readily inspected from online sources.		Route passes through the settlement of Kintore and through LDP protected green space. It does pass within close proximity of a number of small scale committed developments (including three holiday lodges at northern end) and it passes directly through Tom's Forest which is an area of tree felling and within the established boundary of Tom's Forest Quarry.		Large stretches of prime agricultural land, contaminated land (made ground, worked ground, railway, others), and mineral resources.
BS-005		Approximately 10km of the alignment passes through Bennachie SLA. There will be large scale earthworks within the SLA, loss of woodland and potential impacts on the Maiden Stone which is an important landmark feature. Given these factors the overall rating is Major adverse.		Route crosses the extensive floodplain of the River Don (ch.7750m) and is perpendicular to flow (moderate adverse). Potential for active morphology at the existing A96 crossing of the Gadie Burn (ch.100m) (moderate adverse).		Considerable fragmentation of ancient woodland blocks and woodlands, which form a large sensitive area west of Inverurie. New significant crossing of the River Don required as well as a number of more minor watercourse crossings within the currently ecologically sensitive landscape west of Inverurie. Severance of ecological corridors to the west, ultimately leading to Bennachie.		Primary Schools: Chapel of Garloch Primary, Dyne Primary, Logie Durno Primary, Kintore Primary, Kellands Primary, and Port Elphinstone Primary catchments - no NMU impact. Increased journey times possible. Secondary Schools: The Gordon Schools, Huntly, Inverurie Academy, Kemnay Academy & CEC, and Meldrum Academy catchments - no impact on NMU access. Increased journey times possible. Health Care: No impact to NMU access to any health care provisions. Increased journey times possible. The alignment crosses commercial properties at the Mill of Carden tank (unknown contents), a gas distribution centre and a Depot at Heathbank. Alignment passes through areas of class 3.1 agricultural land surrounding Insh and Oyne. No Class 1 or 2.		There is noticeable potential decrease to level of the existing noise climate in Inverurie resulting from the introduction of new roads and rerouting of existing traffic. However, changes to the noise climate may take place upon communities with a relative high population count, which are located close to the new roads.		All options move the alignment substantially away from Inverurie with respect to the baseline. The population density in these areas is very low and background air quality is good.  The areas where the alignments tie in to the south brings 002, 003, 004 and 005 within 200m of dense settlements in the areas of Port Elphinstone and Kintore and as such are classed as Minor beneficial.		This alignment runs in very close proximity to The Maiden Stone (SM90210 and Property in Care) and is likely to cause major impact on its setting. The alignment also runs in close proximity to East Aquhorthies, stone circle (SM90216 and Property in Care) and would be visible within the key view to the south-west from the stone circle, and is likely to cause a major impact on its setting. The alignment cuts through the non-inventory GDL which forms the setting for Aquhorthies House (LB9073) and through the non-inventory GDL that forms the setting for Category B Listed Manor House (LB9074), this would cause effects upon the setting of both of these listed buildings. The proximity of the alignment to Castle of Halfforest (SM92) is likely to result in significant impact on its setting. Castle of Halfforest (SM92) requires a site visit to gain a greater understanding of its setting as it cannot be readily inspected from online sources.		Route passes through the settlement of Kintore and through LDP protected green space. It does pass within close proximity of a number of small scale committed developments (including three holiday lodges at northern end) and it passes directly through Tom's Forest which is an area of tree felling and within the established boundary of Tom's Forest Quarry, and also a number of sites associated with the erection of a small number of dwelling houses.		Small area of prime agricultural land, contaminated land (made ground, railway, others), and mineral resources.