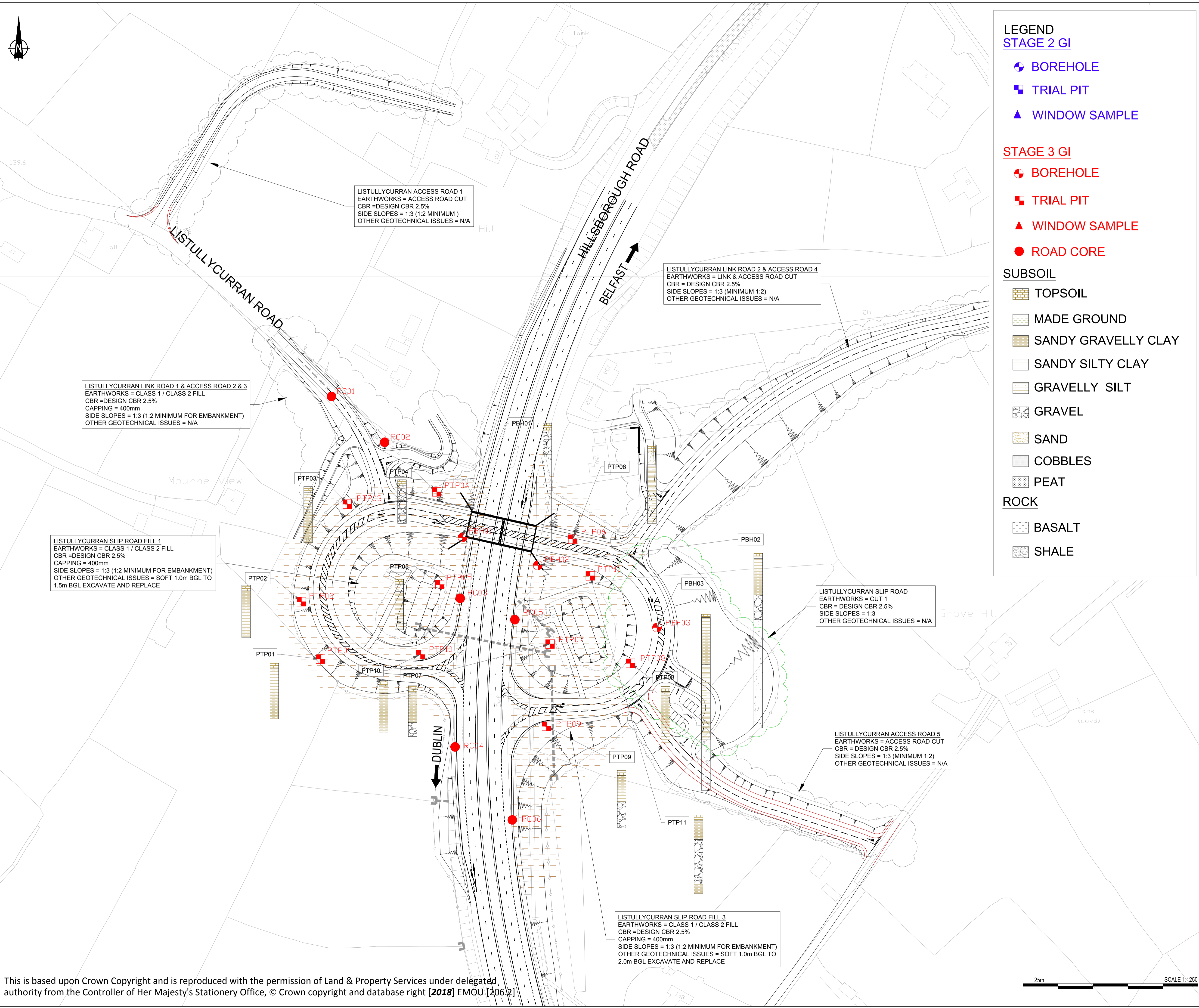


## **APPENDIX D**

### **Junction Plans with GI Results**





**LEGEND**

**STAGE 2 GI**

- ◆ BOREHOLE
- TRIAL PIT
- ▲ WINDOW SAMPLE

**STAGE 3 GI**

- ◆ BOREHOLE
- TRIAL PIT
- ▲ WINDOW SAMPLE
- ROAD CORE

**SUBSOIL**

- TOPSOIL
- MADE GROUND
- SANDY GRAVELLY CLAY
- SANDY SILTY CLAY
- GRAVELLY SILT
- GRAVEL
- SAND
- COBBLES
- PEAT
- ROCK**
- BASALT
- SHALE

**NOTES**

1. Issue of Drawings.  
Hard copies, dwf and pdf will form a controlled issue of the drawing. All other formats (dwg, dxf etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error by the recipient, listing of un-dimensioned measurements, compatibility issues with the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site.
2. These drawings should be read in conjunction with all other relevant design drawings.
3. Design to be carried out in line with series 600 of the specification for road works.
4. Class 1/Class 2 general fill shall comply with specification appendix 6 / 1 and clause 601 of the specification for road works.
5. Embankment foundations shall comply with specification appendix 6 / 3 and clauses 604 and 608 of the specification for road works.
6. Embankment construction shall comply with specification appendix 6 / 3 and clause 612 of the specification for road works.
7. Excavation of cuttings shall comply with specification appendix 6 / 3 and clause 603 of the specification for road works.
8. Where filling below water table, Class 6A to be used to a level 250mm above the groundwater table.
9. Where constructing embankments in areas prone to flooding Class 1C/6B/6C material to used to 0.5m above maximum flood level.
10. Topsoil will be stripped over the full extent of all earthworks foundations unless otherwise specified in the earthworks drawings.
11. Soft spots beneath embankments shall be excavated and backfilled to standard earthworks details.
12. Where the slope of the existing ground below embankments exceeds 1:5 (Vertical : Horizontal) benching shall be carried out to the standard earthworks detail.
13. Installation of any drain at the toe of a cutting shall be undertaken to ensure adjacent earthworks remain stable. During installation the length of open excavation shall be restricted to suit the ground conditions. (Typically 10m).
14. Geotextiles used for separators shall comply with the specification Appendix 6 / 5 and clause 609 of the specification for road works.
15. The crest of earthwork slopes shall be rounded to standard details.
16. Where sub-formation testing confirms higher long term CBR values reduced capping thickness may be achievable subject to approval.

**LEGEND**

- STAGE 2 GI**
- ◆ BOREHOLE
- TRIAL PIT
- ▲ WINDOW SAMPLE
- STAGE 3 GI**
- ◆ BOREHOLE
- TRIAL PIT
- ▲ WINDOW SAMPLE
- ROAD CORE
- PEAT PROBE
- RETAINING WALL
- BRIDGE STRUCTURE
- SOFT GROUND TO BE EXCAVATED & REPLACED
- PEAT TO BE EXCAVATED & REPLACED
- MAIN SLIP ROAD CUT SECTIONS
- OTHER ACCESS, SLIP AND LINK ROADS

REV	COMMENT	DRAWN	CH	AP	DATE



Elmwood House  
74 Boucher Road  
Belfast  
BT12 6RZ

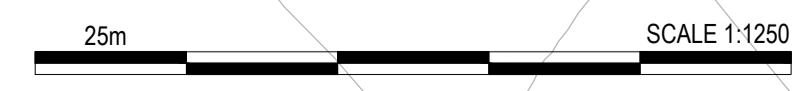
T +44 (0) 28 90 667914  
F +44 (0) 28 90 668286  
W www.rpsgroup.com/ireland  
E ireland@rpsgroup.com



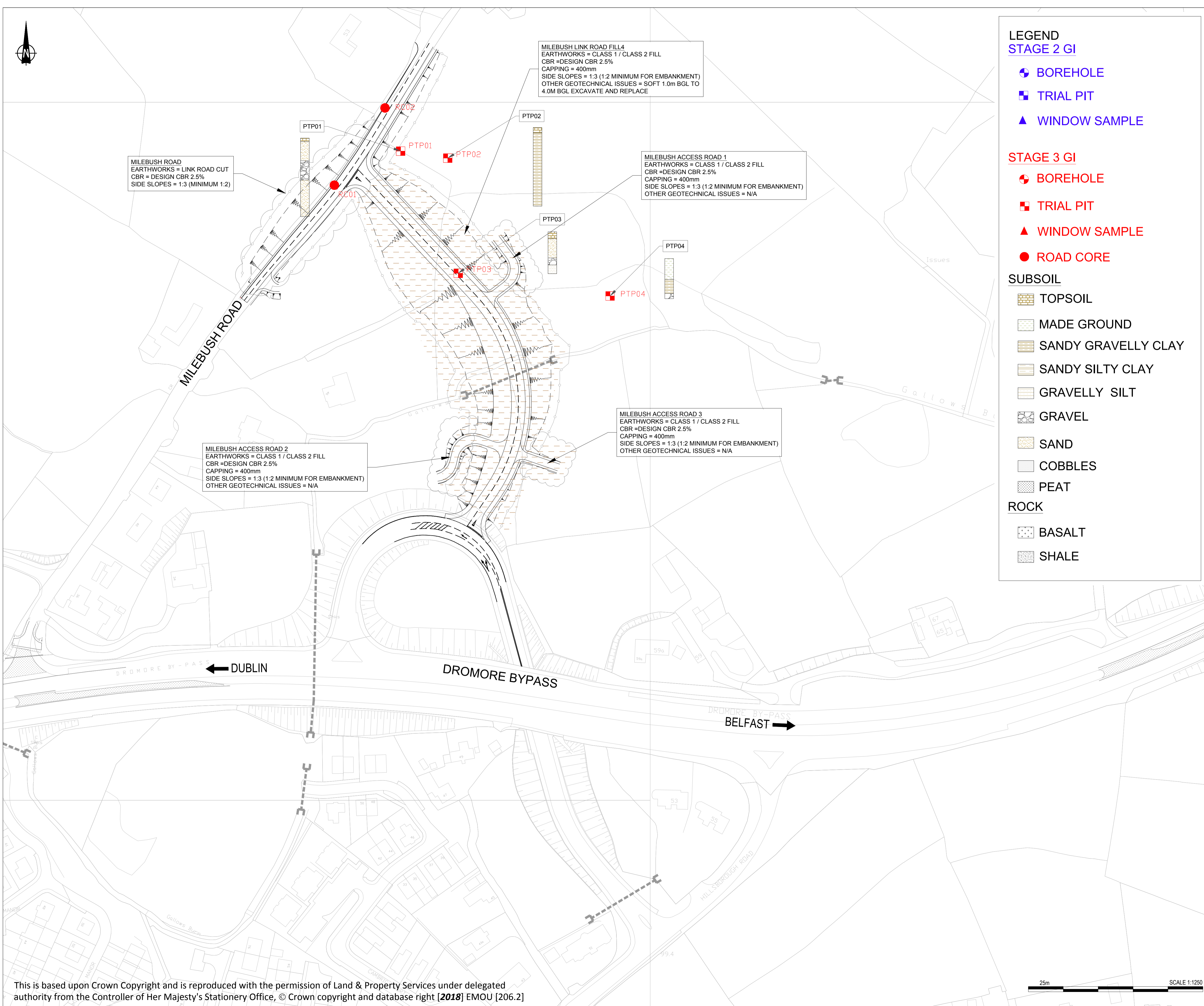
**JUNCTION 1 - LISTULLYCURRAN ROAD  
STAGE 3 GEOTECHNICAL DRAWINGS**

Drawing Status	Suitability	Project Ref No.			
S2	FOR INFORMATION	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	CQ	PB	CQ	MC	
Original Size	Date	Date	Date	Date	
A1	14.12.18	14.12.18	14.12.18	08.02.19	
Drawing Number	Rev				
TNI Ref   Originator   Volume   Location   Type   Discipline   Classification   Number	P04				
168014-RPSB-HAC-XX-DR-D-GI-00001-00006					

This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]







MILEBUSH ROAD  
EARTHWORKS = LINK ROAD CUT  
CBR = DESIGN CBR 2.5%  
SIDE SLOPES = 1:3 (MINIMUM 1:2)

MILEBUSH ACCESS ROAD 2  
EARTHWORKS = CLASS 1 / CLASS 2 FILL  
CBR = DESIGN CBR 2.5%  
CAPPING = 400mm  
SIDE SLOPES = 1:3 (1:2 MINIMUM FOR EMBANKMENT)  
OTHER GEOTECHNICAL ISSUES = N/A

MILEBUSH LINK ROAD FILL4  
EARTHWORKS = CLASS 1 / CLASS 2 FILL  
CBR = DESIGN CBR 2.5%  
CAPPING = 400mm  
SIDE SLOPES = 1:3 (1:2 MINIMUM FOR EMBANKMENT)  
OTHER GEOTECHNICAL ISSUES = SOFT 1.0m BGL TO 4.0M BGL EXCAVATE AND REPLACE

MILEBUSH ACCESS ROAD 1  
EARTHWORKS = CLASS 1 / CLASS 2 FILL  
CBR = DESIGN CBR 2.5%  
CAPPING = 400mm  
SIDE SLOPES = 1:3 (1:2 MINIMUM FOR EMBANKMENT)  
OTHER GEOTECHNICAL ISSUES = N/A

MILEBUSH ACCESS ROAD 3  
EARTHWORKS = CLASS 1 / CLASS 2 FILL  
CBR = DESIGN CBR 2.5%  
CAPPING = 400mm  
SIDE SLOPES = 1:3 (1:2 MINIMUM FOR EMBANKMENT)  
OTHER GEOTECHNICAL ISSUES = N/A

**LEGEND**  
**STAGE 2 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE

**STAGE 3 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE
- ROAD CORE

**SUBSOIL**

- TOPSOIL
- MADE GROUND
- SANDY GRAVELLY CLAY
- SANDY SILTY CLAY
- GRAVELLY SILT
- GRAVEL
- SAND
- COBBLES
- PEAT
- ROCK**
- BASALT
- SHALE

**NOTES**

1. Issue of Drawings.  
Hard copies, dwf and pdf will form a controlled issue of the drawing. All other formats (dwg, dxf etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipients own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error by the recipient, listing of un-dimensioned measurements, compatibility issues with the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site.
2. These drawings should be read in conjunction with all other relevant design drawings
3. Design to be carried out in line with series 600 of the specification for road works.
4. Class 1/ Class 2 general fill shall comply with specification appendix 6 / 1 and clause 601 of the specification for road works.
5. Embankment foundations shall comply with specification appendix 6 / 3 and clauses 604 and 608 of the specification for road works.
6. Embankment construction shall comply with specification appendix 6 / 3 and clause 612 of the specification for road works.
7. Excavation of cuttings shall comply with specification appendix 6 / 3 and clause 603 of the specification for road works.
8. Where filling below water table, Class 6A to be used to a level 250mm above the groundwater table.
9. Where constructing embankments in areas prone to flooding Class 1C/6B/6C material to be used to 0.5m above maximum flood level.
10. Topsoil will be stripped over the full extent of all earthworks foundations unless otherwise specified in the earthworks drawings.
11. Soft spots beneath embankments shall be excavated and backfilled to standard earthworks details
12. Where the slope of the existing ground below embankments exceeds 1:5 (Vertical : Horizontal) benching shall be carried out to the standard earthworks detail.
13. Installation of any drain at the toe of a cutting shall be undertaken to ensure adjacent earthworks remain stable. During installation the length of open excavation shall be restricted to suit the ground conditions. (Typically 10m).
14. Geotextiles used for separators shall comply with the specification Appendix 6 / 5 and clause 609 of the specification for road works.
15. The crest of earthwork slopes shall be rounded to standard details.
16. Where sub-formation testing confirms higher long term CBR values reduced capping thickness may be achievable subject to approval.

**LEGEND**

- STAGE 2 GI**
- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE
- STAGE 3 GI**
- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE
- ROAD CORE
- PEAT PROBE
- RETAINING WALL
- BRIDGE STRUCTURE
- SOFT GROUND TO BE EXCAVATED & REPLACED
- PEAT TO BE EXCAVATED & REPLACED
- MAIN SLIP ROAD CUT SECTIONS
- OTHER ACCESS, SLIP AND LINK ROADS

REV	COMMENT	DRAWN	CH	AP	DATE



Elmwood House  
74 Boucher Road  
Belfast  
BT12 6RZ

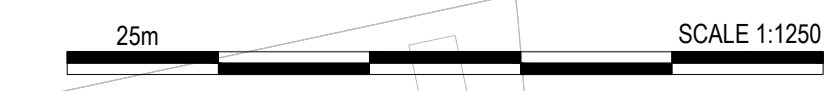
T +44 (0) 28 90 667914  
F +44 (0) 28 90 668286  
W www.rpsgroup.com/ireland  
E ireland@rpsgroup.com



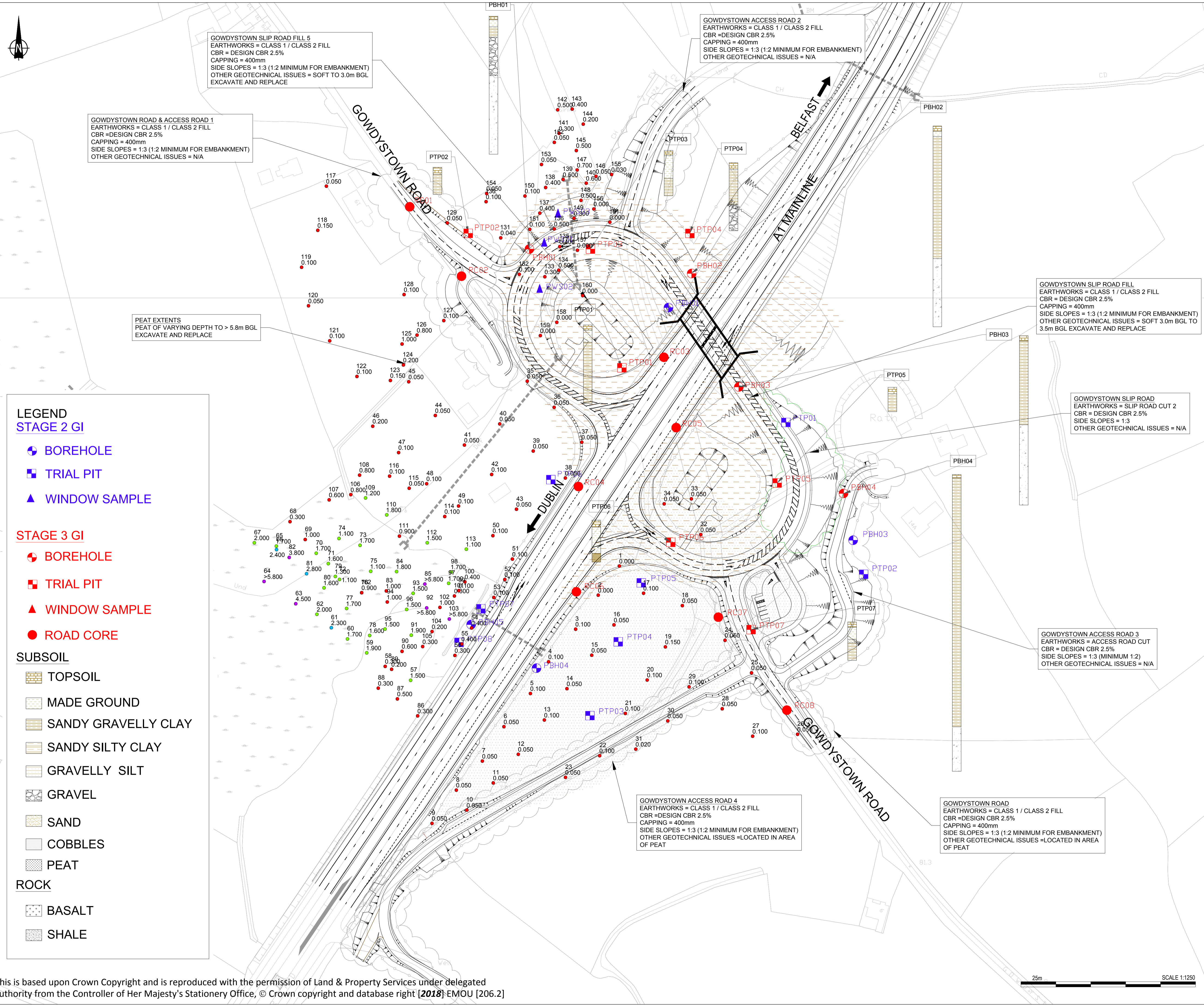
**JUNCTION 2 - MILEBUSH ROAD  
STAGE 3 GEOTECHNICAL DRAWINGS**

Drawing Status	Suitability	Project Ref No.		
S2	FOR INFORMATION	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:1000	CQ	PB	CQ	MC
Original Size	Date	Date	Date	Date
A1	14.12.18	14.12.18	14.12.18	08.02.19
Drawing Number	Rev P04			
TNI Ref   Originator   Volume   Location   Type   Discipline   Classification   Number				
168014-RPSB-HAC-XX-DR-D-GI-00001-00006				

This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]







**LEGEND**

**STAGE 2 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE

**STAGE 3 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE
- ROAD CORE

**SUBSOIL**

- TOPSOIL
- MADE GROUND
- SANDY GRAVELLY CLAY
- SANDY SILTY CLAY
- GRAVELLY SILT
- GRAVEL
- SAND
- COBBLES
- PEAT

**ROCK**

- BASALT
- SHALE

- NOTES**
- Issue of Drawings. Hard copies, dwf and pdf will form a controlled issue of the drawing. All other formats (dwg, dxf etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error by the recipient, listing of un-dimensioned measurements, compatibility issues with the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site.
  - These drawings should be read in conjunction with all other relevant design drawings.
  - Design to be carried out in line with series 600 of the specification for road works.
  - Class 1/Class 2 general fill shall comply with specification appendix 6 / 1 and clause 601 of the specification for road works.
  - Embankment foundations shall comply with specification appendix 6 / 3 and clauses 604 and 608 of the specification for road works.
  - Embankment construction shall comply with specification appendix 6 / 3 and clause 612 of the specification for road works.
  - Excavation of cuttings shall comply with specification appendix 6 / 3 and clause 603 of the specification for road works.
  - Where filling below water table, Class 6A to be used to a level 250mm above the groundwater table.
  - Where constructing embankments in areas prone to flooding Class 1C/6B/6C material to be used to 0.5m above maximum flood level.
  - Topsoil will be stripped over the full extent of all earthworks foundations unless otherwise specified in the earthworks drawings.
  - Soft spots beneath embankments shall be excavated and backfilled to standard earthworks details.
  - Where the slope of the existing ground below embankments exceeds 1:5 (Vertical : Horizontal) benching shall be carried out to the standard earthworks detail.
  - Installation of any drain at the toe of a cutting shall be undertaken to ensure adjacent earthworks remain stable. During installation the length of open excavation shall be restricted to suit the ground conditions. (Typically 10m).
  - Geotextiles used for separators shall comply with the specification Appendix 6 / 5 and clause 609 of the specification for road works.
  - The crest of earthwork slopes shall be rounded to standard details.
  - Where sub-formation testing confirms higher long term CBR values reduced capping thickness may be achievable subject to approval.

**LEGEND**

**STAGE 2 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE

**STAGE 3 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE
- ROAD CORE
- PEAT PROBE

- RETAINING WALL
- BRIDGE STRUCTURE
- SOFT GROUND TO BE EXCAVATED & REPLACED
- PEAT TO BE EXCAVATED & REPLACED
- MAIN SLIP ROAD CUT SECTIONS
- OTHER ACCESS, SLIP AND LINK ROADS

REV	COMMENT	DRAWN	CH	AP	DATE

**RPS** **SWECO**

Elmwood House  
74 Boucher Road  
Belfast  
BT12 6RZ

T +44 (0) 28 90 667914  
F +44 (0) 28 90 668286  
W www.rpsgroup.com/ireland  
E ireland@rpsgroup.com

Client

Department for Infrastructure  
An Roinn  
**Bonneagair**  
www.infrastructure-ri.gov.uk

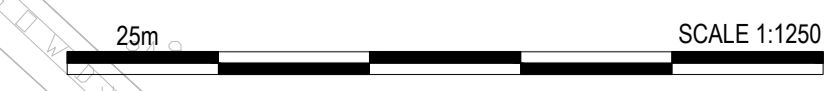
Project

**A1 Junctions**  
Phase 2

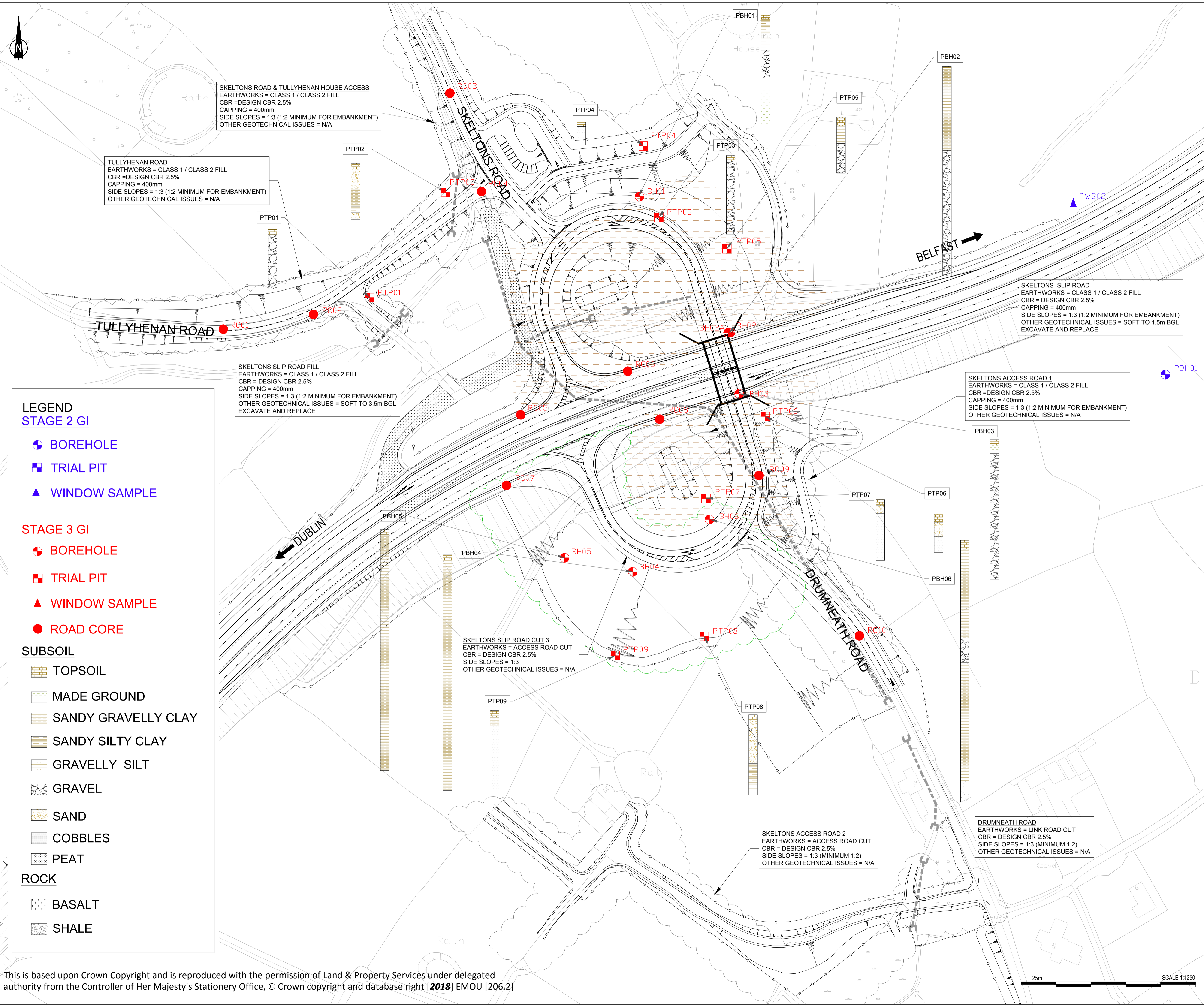
**JUNCTION 3 - GOWDYSTOWN ROAD**  
**STAGE 3 GEOTECHNICAL DRAWINGS**

Drawing Status	Suitability	Project Ref No.		
S2	FOR INFORMATION	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:1000	CQ	PB	CQ	MC
Original Size	Date	Date	Date	Date
A1	14.12.18	14.12.18	14.12.18	08.02.19
Drawing Number	Rev P04			
TNI Ref	Originator	Volume	Location	Type   Discipline   Classification   Number
168014-RPSB-HAC-XX-DR-D-GI-00001-00006				

This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]







**NOTES**

- Issue of Drawings.  
Hard copies, dwf and pdf will form a controlled issue of the drawing. All other formats (dwg, dxf etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error or the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site.
- These drawings should be read in conjunction with all other relevant design drawings.
- Design to be carried out in line with series 600 of the specification for road works.
- Class 1/Class 2 general fill shall comply with specification appendix 6 / 1 and clause 601 of the specification for road works.
- Embankment foundations shall comply with specification appendix 6 / 3 and clauses 604 and 608 of the specification for road works.
- Embankment construction shall comply with specification appendix 6 / 3 and clause 612 of the specification for road works.
- Excavation of cuttings shall comply with specification appendix 6 / 3 and clause 603 of the specification for road works.
- Where filling below water table, Class 6A to be used to a level 250mm above the groundwater table.
- Where constructing embankments in areas prone to flooding Class 1C/6B/6C material to be used to 0.5m above maximum flood level.
- Topsoil will be stripped over the full extent of all earthworks foundations unless otherwise specified in the earthworks drawings.
- Soft spots beneath embankments shall be excavated and backfilled to standard earthworks details.
- Where the slope of the existing ground below embankments exceeds 1:5 (Vertical : Horizontal) benching shall be carried out to the standard earthworks detail.
- Installation of any drain at the toe of a cutting shall be undertaken to ensure adjacent earthworks remain stable. During installation the length of open excavation shall be restricted to suit the ground conditions. (Typically 10m).
- Geotextiles used for separators shall comply with the specification Appendix 6 / 5 and clause 609 of the specification for road works.
- The crest of earthwork slopes shall be rounded to standard details.
- Where sub-formation testing confirms higher long term CBR values reduced capping thickness may be achievable subject to approval.

**LEGEND**

- STAGE 2 GI**
- BOREHOLE
  - TRIAL PIT
  - WINDOW SAMPLE
- STAGE 3 GI**
- BOREHOLE
  - TRIAL PIT
  - WINDOW SAMPLE
  - ROAD CORE
  - PEAT PROBE
- SUBSOIL**
- TOPSOIL
  - MADE GROUND
  - SANDY GRAVELLY CLAY
  - SANDY SILTY CLAY
  - GRAVELLY SILT
  - GRAVEL
  - SAND
  - COBBLES
  - PEAT
- ROCK**
- BASALT
  - SHALE
- OTHER SYMBOLS**
- RETAINING WALL
  - BRIDGE STRUCTURE
  - SOFT GROUND TO BE EXCAVATED & REPLACED
  - PEAT TO BE EXCAVATED & REPLACED
  - MAIN SLIP ROAD CUT SECTIONS
  - OTHER ACCESS, SLIP AND LINK ROADS

REV	COMMENT	DRAWN	CH	AP	DATE

**RPS SWECO**

Elmwood House  
74 Boucher Road  
Belfast  
BT12 6RZ

T +44 (0) 28 90 667914  
F +44 (0) 28 90 668286  
W www.rpsgroup.com/ireland  
E ireland@rpsgroup.com

Client

Department for Infrastructure  
An Roinn Bonneagair  
www.infrastructure-ri.gov.uk

Project

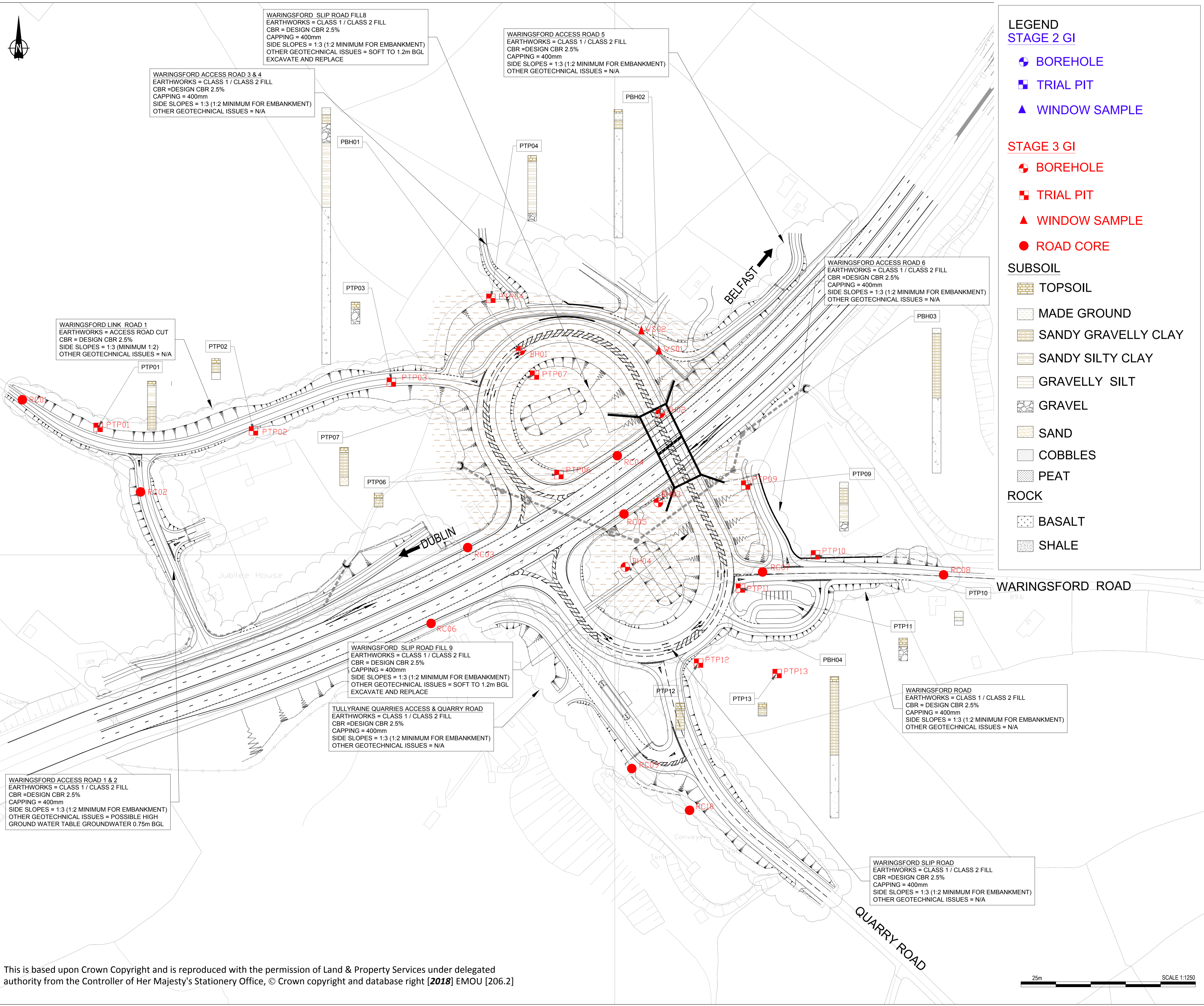
**A1 Junctions Phase 2**

**JUNCTION 4 - SKELTONS ROAD  
STAGE 3 GEOTECHNICAL DRAWINGS**

Drawing Status	Suitability	Project Ref No.		
S2	FOR INFORMATION	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:1000	CQ	PB	CQ	MC
Original Size	Date	Date	Date	Date
A1	14.12.18	14.12.18	14.12.18	08.02.19
Drawing Number	Rev P04			
TNI Ref   Originator   Volume   Location   Type   Discipline   Classification   Number				
168014-RPSB-HAC-XX-DR-D-GI-00001-00006				

This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]





**LEGEND**

**STAGE 2 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE

**STAGE 3 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE
- ROAD CORE

**SUBSOIL**

- TOPSOIL
- MADE GROUND
- SANDY GRAVELLY CLAY
- SANDY SILTY CLAY
- GRAVELLY SILT
- GRAVEL
- SAND
- COBBLES
- PEAT
- ROCK**
- BASALT
- SHALE

**NOTES**

1. Issue of Drawings.  
Hard copies, dwf and pdf will form a controlled issue of the drawing. All other formats (dwg, dxf etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error by the recipient, listing of un-dimensioned measurements, compatibility issues with the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site.
2. These drawings should be read in conjunction with all other relevant design drawings.
3. Design to be carried out in line with series 600 of the specification for road works.
4. Class 1/Class 2 general fill shall comply with specification appendix 6 / 1 and clause 601 of the specification for road works.
5. Embankment foundations shall comply with specification appendix 6 / 3 and clauses 604 and 608 of the specification for road works.
6. Embankment construction shall comply with specification appendix 6 / 3 and clause 612 of the specification for road works.
7. Excavation of cuttings shall comply with specification appendix 6 / 3 and clause 603 of the specification for road works.
8. Where filling below water table, Class 6A to be used to a level 250mm above the groundwater table.
9. Where constructing embankments in areas prone to flooding Class 1C/6B/6C material to be used to 0.5m above maximum flood level.
10. Topsoil will be stripped over the full extent of all earthworks foundations unless otherwise specified in the earthworks drawings.
11. Soft spots beneath embankments shall be excavated and backfilled to standard earthworks details.
12. Where the slope of the existing ground below embankments exceeds 1:5 (Vertical : Horizontal) benching shall be carried out to the standard earthworks detail.
13. Installation of any drain at the toe of a cutting shall be undertaken to ensure adjacent earthworks remain stable. During installation the length of open excavation shall be restricted to suit the ground conditions. (Typically 10m).
14. Geotextiles used for separators shall comply with the specification Appendix 6 / 5 and clause 609 of the specification for road works.
15. The crest of earthwork slopes shall be rounded to standard details.
16. Where sub-formation testing confirms higher long term CBR values reduced capping thickness may be achievable subject to approval.

**LEGEND**

- STAGE 2 GI**
- BOREHOLE
  - TRIAL PIT
  - WINDOW SAMPLE
- STAGE 3 GI**
- BOREHOLE
  - TRIAL PIT
  - WINDOW SAMPLE
  - ROAD CORE
  - PEAT PROBE
- RETAINING WALL
  - BRIDGE STRUCTURE
  - SOFT GROUND TO BE EXCAVATED & REPLACED
  - PEAT TO BE EXCAVATED & REPLACED
  - MAIN SLIP ROAD CUT SECTIONS
  - OTHER ACCESS, SLIP AND LINK ROADS

REV	COMMENT	DRAWN	CH	AP	DATE



Elmwood House  
74 Boucher Road  
Belfast  
BT12 6RZ

T +44 (0) 28 90 667914  
F +44 (0) 28 90 668286  
W www.rpsgroup.com/ireland  
E ireland@rpsgroup.com



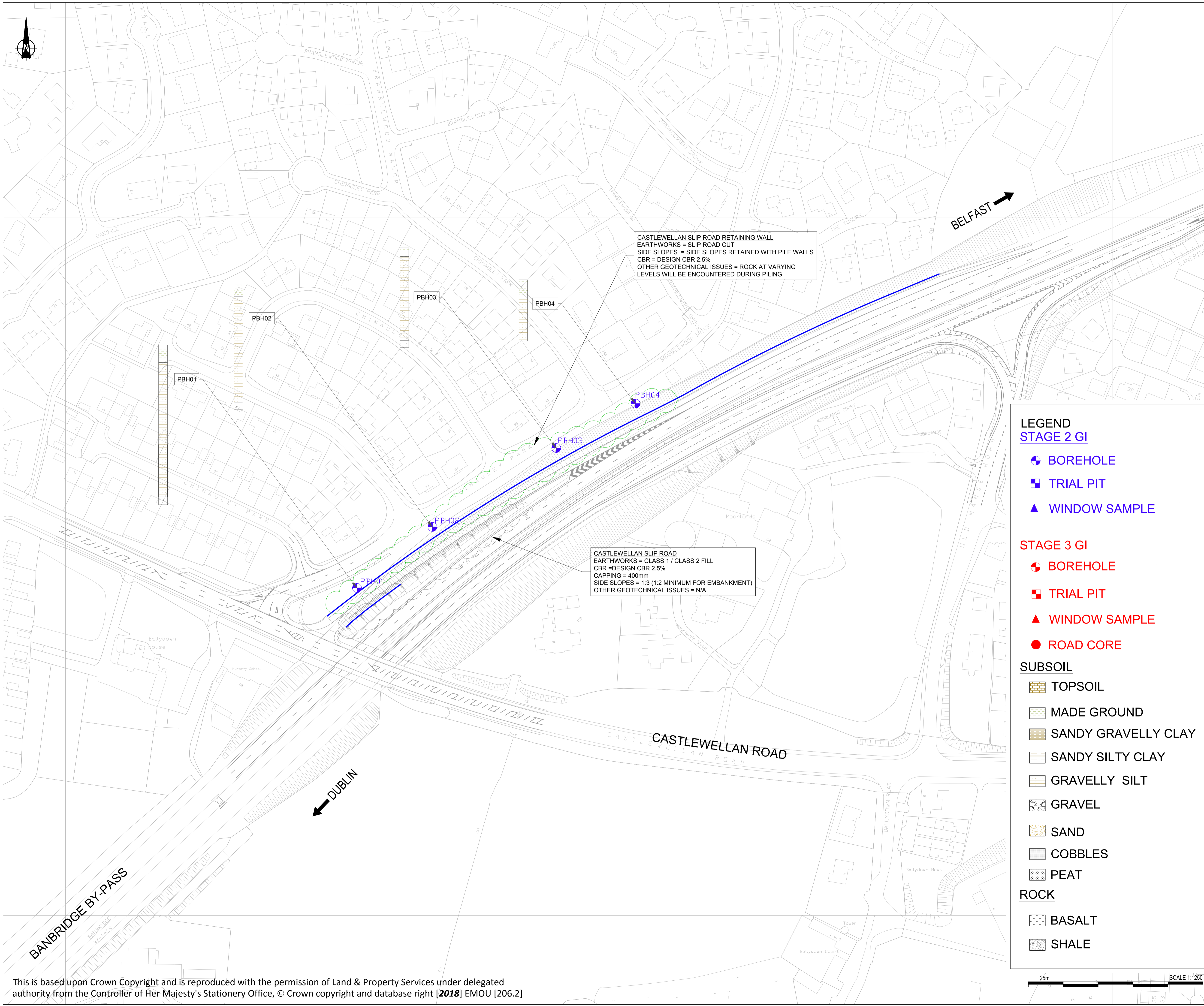
**JUNCTION 5 - WARINGSFORD ROAD  
STAGE 3 GEOTECHNICAL DRAWINGS**

Drawing Status S2	Suitability FOR INFORMATION	Project Ref No. IBH0488
Scale 1:1000	Designed CQ	Drawn By PB
Original Size A1	Date 14.12.18	Checked CQ
	Date 14.12.18	Authorised MC
	Date 14.12.18	Date 08.02.19
Drawing Number	Rev P04	
TNI Ref   Originator   Volume   Location   Type   Discipline   Classification   Number 168014-RPSB-HAC-XX-DR-D-GI-00001-00006		

This is based upon Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office, © Crown copyright and database right [2018] EMOU [206.2]







**NOTES**

- Issue of Drawings.  
Hard copies, dwf and pdf will form a controlled issue of the drawing. All other formats (dwg, dxf etc.) are deemed to be an uncontrolled issue and any work carried out based on these files is at the recipient's own risk. RPS will not accept any responsibility for any errors arising from the use of these files, either by human error by the recipient, listing of un-dimensioned measurements, compatibility issues with the recipient's software, and any errors arising when these files are used to aid the recipient's drawing production, or setting out on site.
- These drawings should be read in conjunction with all other relevant design drawings.
- Design to be carried out in line with series 600 of the specification for road works.
- Class 1/ Class 2 general fill shall comply with specification appendix 6 / 1 and clause 601 of the specification for road works.
- Embankment foundations shall comply with specification appendix 6 / 3 and clauses 604 and 608 of the specification for road works.
- Embankment construction shall comply with specification appendix 6 / 3 and clause 612 of the specification for road works.
- Excavation of cuttings shall comply with specification appendix 6 / 3 and clause 603 of the specification for road works.
- Where filling below water table, Class 6A to be used to a level 250mm above the groundwater table.
- Where constructing embankments in areas prone to flooding Class 1C/6B/6C material to be used to 0.5m above maximum flood level.
- Topsoil will be stripped over the full extent of all earthworks foundations unless otherwise specified in the earthworks drawings.
- Soft spots beneath embankments shall be excavated and backfilled to standard earthworks details.
- Where the slope of the existing ground below embankment exceeds 1:5 (Vertical : Horizontal) benching shall be carried out to the standard earthworks detail.
- Installation of any drain at the toe of a cutting shall be undertaken to ensure adjacent earthworks remain stable. During installation the length of open excavation shall be restricted to suit the ground conditions. (Typically 10m).
- Geotextiles used for separators shall comply with the specification Appendix 6 / 5 and clause 609 of the specification for road works.
- The crest of earthwork slopes shall be rounded to standard details.
- Where sub-formation testing confirms higher long term CBR values reduced capping thickness may be achievable subject to approval.

**LEGEND**

**STAGE 2 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE

**STAGE 3 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE
- ROAD CORE
- PEAT PROBE

**RETAINING WALL**

**BRIDGE STRUCTURE**

**SOFT GROUND TO BE EXCAVATED & REPLACED**

**PEAT TO BE EXCAVATED & REPLACED**

**MAIN SLIP ROAD CUT SECTIONS**

**OTHER ACCESS, SLIP AND LINK ROADS**

**LEGEND**

**STAGE 2 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE

**STAGE 3 GI**

- BOREHOLE
- TRIAL PIT
- WINDOW SAMPLE
- ROAD CORE

**SUBSOIL**

- TOPSOIL
- MADE GROUND
- SANDY GRAVELLY CLAY
- SANDY SILTY CLAY
- GRAVELLY SILT
- GRAVEL
- SAND
- COBBLES
- PEAT

**ROCK**

- BASALT
- SHALE

REV	COMMENT	DRAWN	CH	AP	DATE

**RPS SWECO**

Elmwood House  
74 Boucher Road  
Belfast  
BT12 6RZ

T +44 (0) 28 90 667914  
F +44 (0) 28 90 668286  
W www.rpsgroup.com/ireland  
E ireland@rpsgroup.com

Client

Department for Infrastructure  
An Roinn Bonneagair  
www.infrastructure.gov.uk

Project

**A1 Junctions Phase 2**

**JUNCTION 6 - CASTLEWELLAN ROAD**  
**STAGE 3 GEOTECHNICAL DRAWINGS**

Drawing Status	Suitability	Project Ref No.			
S2	FOR INFORMATION	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	CQ	PB	CQ	MC	
Original Size	Date	Date	Date	Date	
A1	14.12.18	14.12.18	14.12.18	08.02.19	
Drawing Number	Rev				
	P04				

