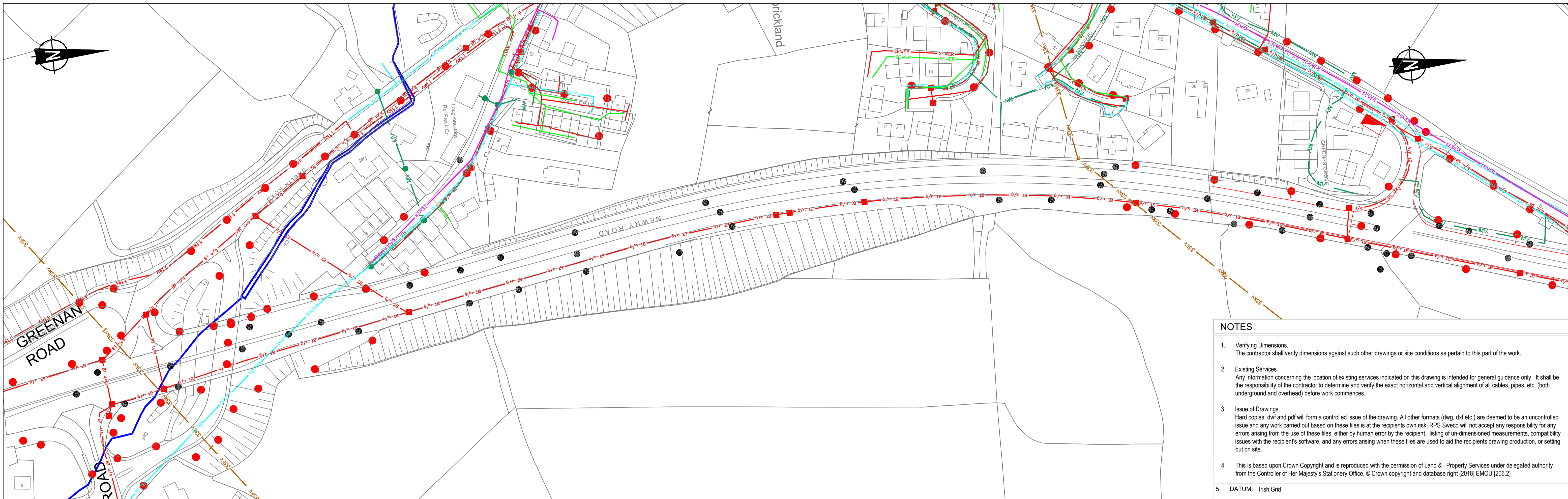
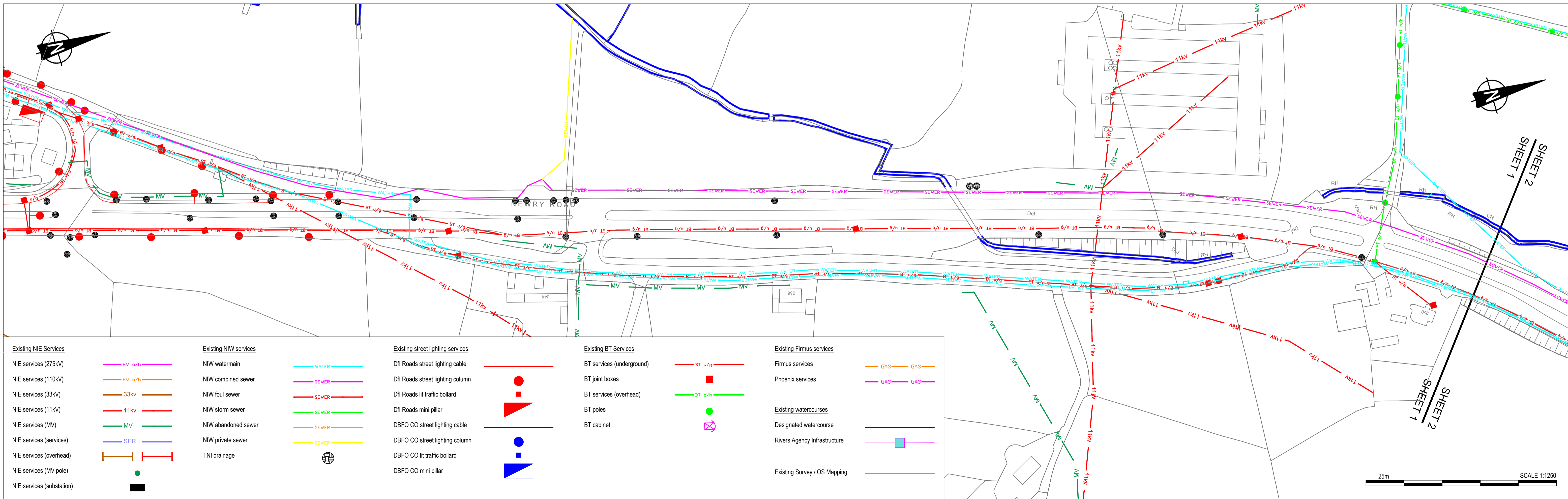


APPENDIX E

Public Utility Drawings



- NOTES**
1. Verifying Dimensions.
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<p>Existing NIE Services</p> <ul style="list-style-type: none"> NIE services (275kV) — HV o/n NIE services (110kV) — HV o/n NIE services (33kV) — 33kv NIE services (11kV) — 11kv NIE services (MV) — MV NIE services (services) — SER NIE services (overhead) — NIE services (MV pole) — NIE services (substation) — 	<p>Existing NIW services</p> <ul style="list-style-type: none"> NIW watermain NIW combined sewer NIW foul sewer NIW storm sewer NIW abandoned sewer NIW private sewer TNI drainage 	<p>Existing street lighting services</p> <ul style="list-style-type: none"> DfI Roads street lighting cable DfI Roads street lighting column DfI Roads lit traffic bollard DfI Roads mini pillar DBFO CO street lighting cable DBFO CO street lighting column DBFO CO lit traffic bollard DBFO CO mini pillar 	<p>Existing BT Services</p> <ul style="list-style-type: none"> BT services (underground) BT joint boxes BT services (overhead) BT poles BT cabinet 	<p>Existing Firmus services</p> <ul style="list-style-type: none"> Firmus services Phoenix services 	<p>Existing watercourses</p> <ul style="list-style-type: none"> Designated watercourse Rivers Agency Infrastructure Existing Survey / OS Mapping
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25m SCALE 1:1250

Drawing Title
A1 EXISTING UTILITIES
Sheet 1 of 14

Drawing Number
TNI Ref Originator Volume Location Type Discipline Classification Number
168014-RPSB-VUT-ML-DR-HE-100-00001

Rev
P1

Drawing Status S2	Suitability Fit for Information	Project Ref No. IBH0488
Scale 1:1250	Designed KC	Drawn By KC
Original Size A1	Checked PN	Authorised CD
Date 26/03/2018	Date 26/03/2018	Date 15/02/2019
	Date 15/02/2019	

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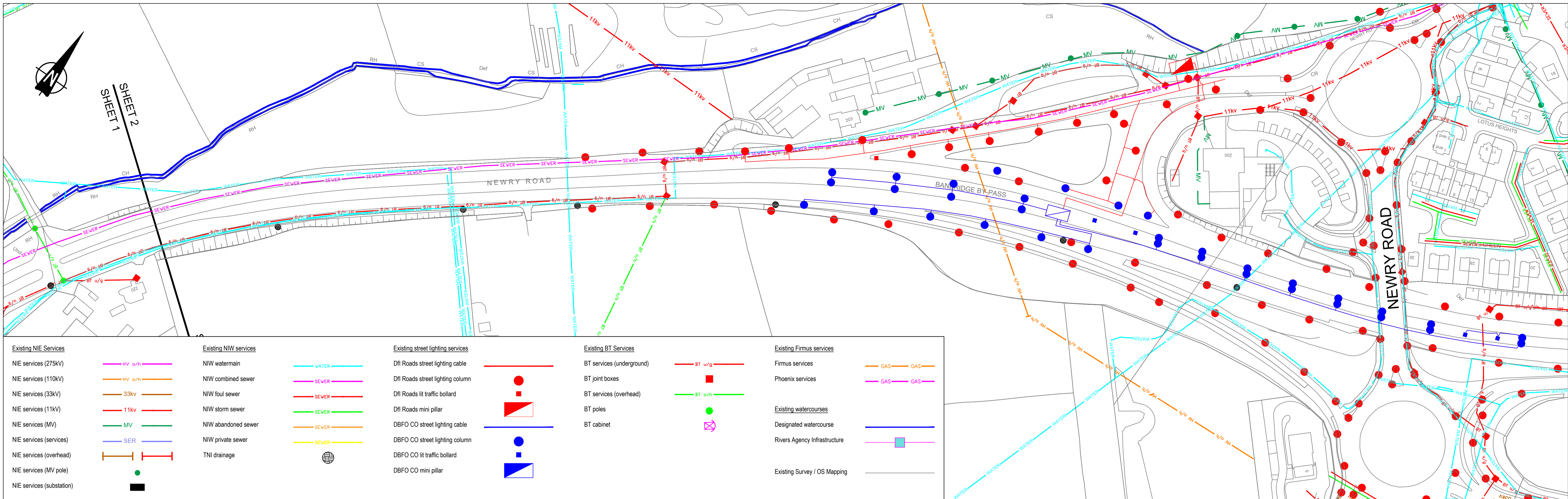
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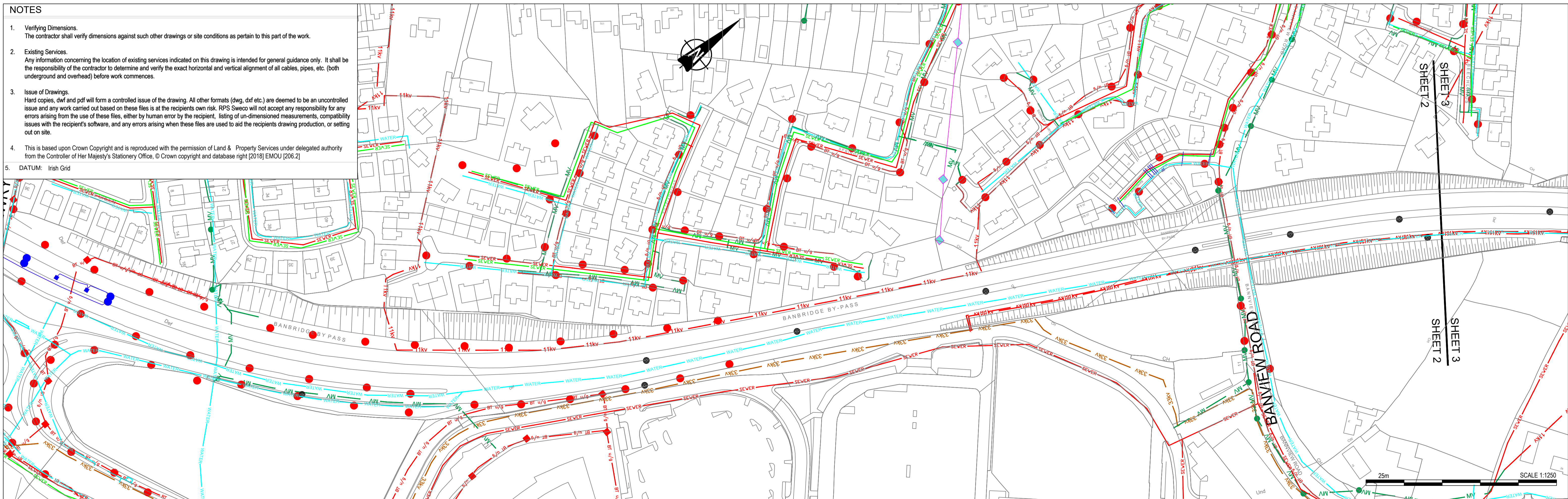
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A	Utility Xrefs Checked & Updated	KJ	DEC17
rev	amendments	drawn	date



Existing NIE Services		Existing NIW services		Existing street lighting services		Existing BT Services		Existing Firmus services	
NIE services (275kV)		NIW watermain		DfI Roads street lighting cable		BT services (underground)		Firmus services	
NIE services (110kV)		NIW combined sewer		DfI Roads street lighting column		BT joint boxes		Phoenix services	
NIE services (33kV)		NIW foul sewer		DfI Roads lit traffic bollard		BT services (overhead)		Existing watercourses	
NIE services (11kV)		NIW storm sewer		DfI Roads mini pillar		BT poles		Designated watercourse	
NIE services (MV)		NIW abandoned sewer		DBFO CO street lighting cable		BT cabinet		Rivers Agency Infrastructure	
NIE services (services)		NIW private sewer		DBFO CO street lighting column				Existing Survey / OS Mapping	
NIE services (overhead)		TNI drainage		DBFO CO lit traffic bollard					
NIE services (MV pole)				DBFO CO mini pillar					
NIE services (substation)									

- NOTES**
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Drawing Number		TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-ML-DR-HE-100-00002	
Rev		P1	

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Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	15/02/2019	15/02/2019	

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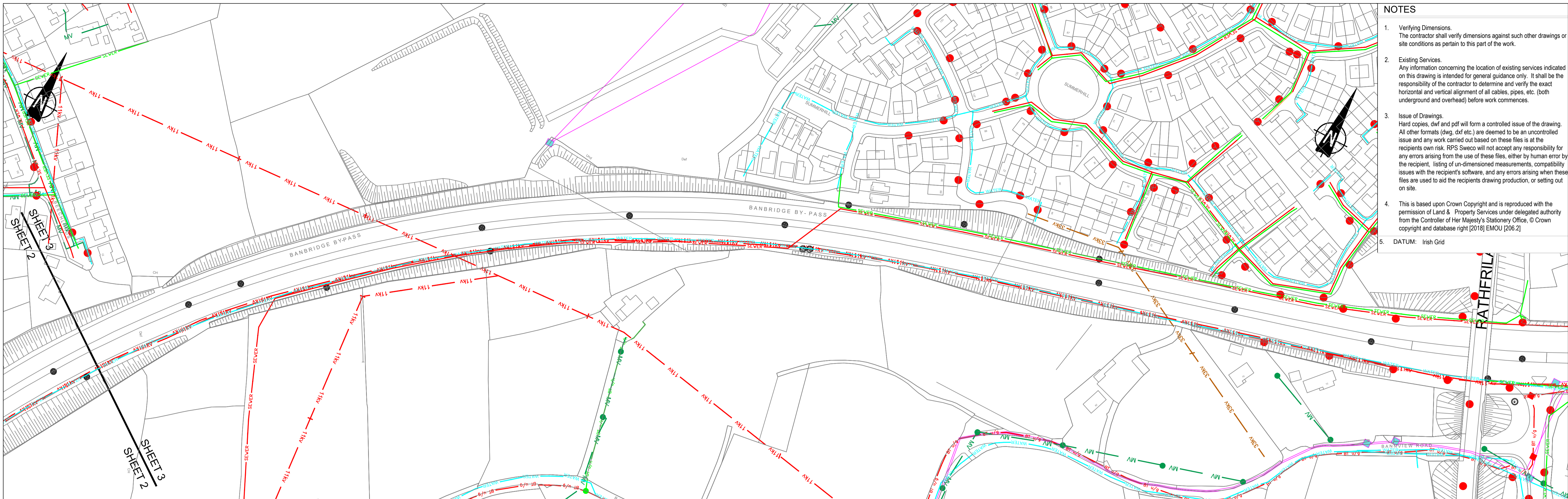
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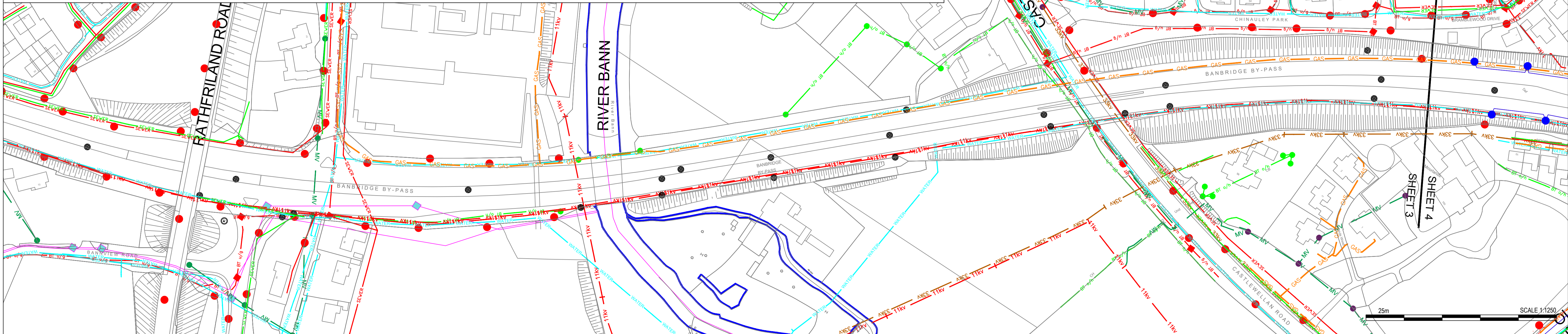
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rev	amendments	drawn	date

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Existing NIE Services	Existing NIW services	Existing street lighting services	Existing BT Services	Existing Firmus services
NIE services (275kV) — HV o/h	NIW watermain — WATER	DI Roads street lighting cable —	BT services (underground) — BT u/g	Firmus services — GAS — GAS
NIE services (110kV) — HV o/h	NIW combined sewer — SEWER	DI Roads street lighting column ●	BT joint boxes ■	Phoenix services — GAS — GAS
NIE services (33kV) — 33kv	NIW foul sewer — SEWER	DI Roads lit traffic bollard ■	BT services (overhead) — BT o/h	Existing watercourses —
NIE services (11kV) — 11kv	NIW storm sewer — SEWER	DI Roads mini pillar ■	BT poles ●	Designated watercourse —
NIE services (MV) — MV	NIW abandoned sewer — SEWER	DBFO CO street lighting cable —	BT cabinet ■	Rivers Agency Infrastructure ■
NIE services (services) — SER	NIW private sewer — SEWER	DBFO CO street lighting column ■	Existing Survey / OS Mapping —	
NIE services (overhead) —	TNI drainage —	DBFO CO lit traffic bollard ■		
NIE services (MV pole) ●		DBFO CO mini pillar ■		
NIE services (substation) ■				



Drawing Title	A1 EXISTING UTILITIES Sheet 3 of 14	
Drawing Number	168014-RPSB-VUT-ML-DR-HE-100-00003	
Rev	P1	

Drawing Status	Suitability	Project Ref No.		
S2	Fit for Information	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:1250	KC	KC	PN	CD
Original Size	Date	Date	Date	Date
A1	26/03/2018	26/03/2018	15/02/2019	15/02/2019

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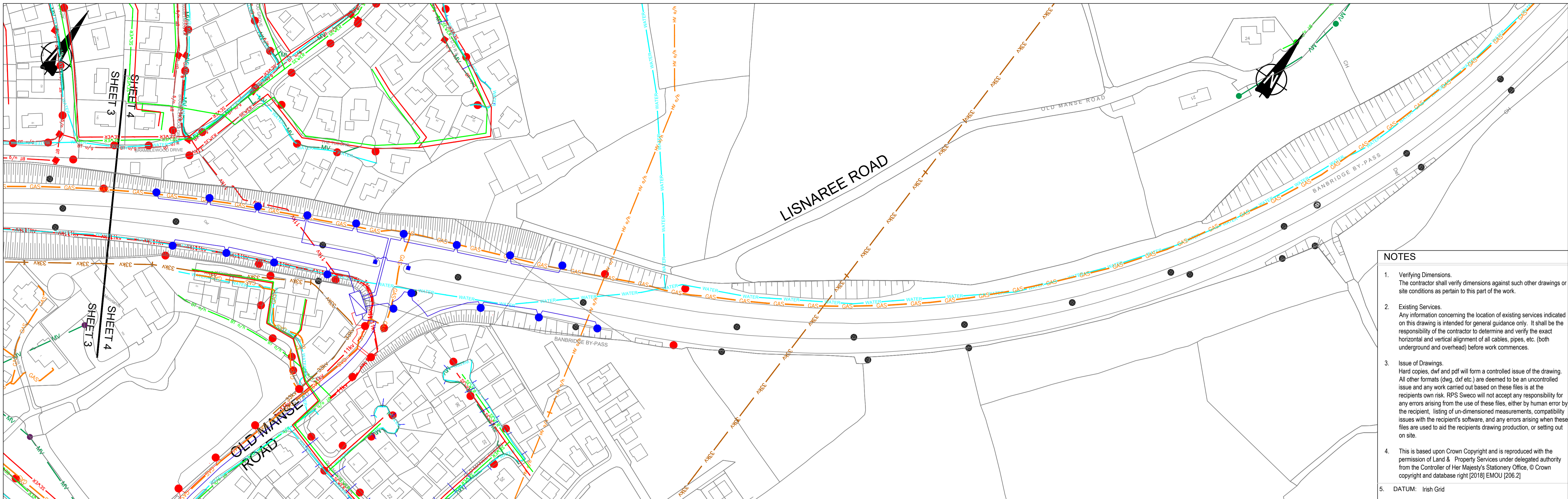
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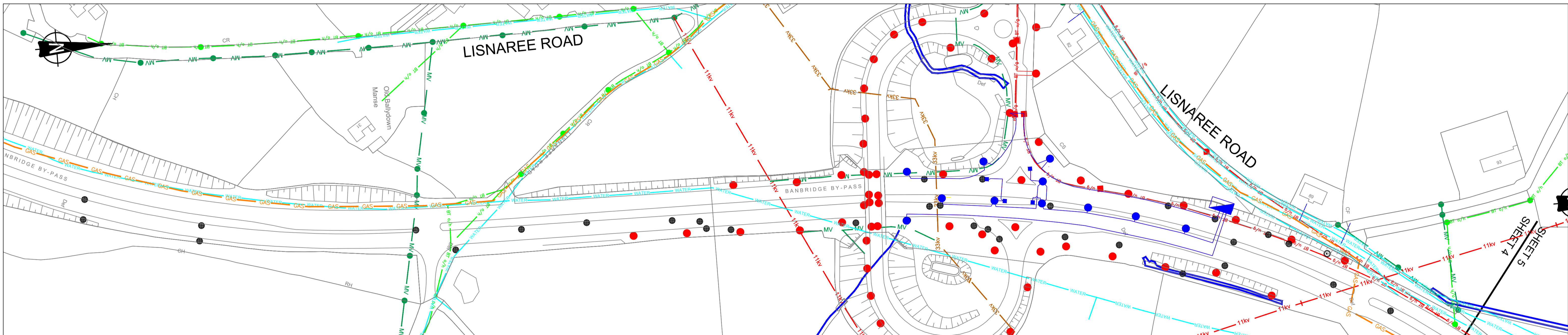
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rev	amendments	drawn	date



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Existing NIE Services	Existing NIW services	Existing street lighting services	Existing BT Services	Existing Firmus services
NIE services (275kV) HV o/n	NIW watermain NIW combined sewer NIW foul sewer NIW storm sewer NIW abandoned sewer NIW private sewer TNI drainage	DI Roads street lighting cable DI Roads street lighting column DI Roads lit traffic bollard DI Roads mini pillar DBFO CO street lighting cable DBFO CO street lighting column DBFO CO lit traffic bollard DBFO CO mini pillar	BT services (underground) BT joint boxes BT services (overhead) BT poles BT cabinet	Firmus services Phoenix services Existing watercourses Designated watercourse Rivers Agency Infrastructure Existing Survey / OS Mapping
NIE services (110kV) HV o/n			BT u/g	GAS
NIE services (33kV) 33kv			BT o/n	GAS
NIE services (11kV) 11kv				
NIE services (MV) MV				
NIE services (services) SER				
NIE services (overhead) SER				
NIE services (MV pole) SER				
NIE services (substation) SER				

Drawing Title
A1 EXISTING UTILITIES
Sheet 4 of 14

Drawing Number
TNI Ref Originator Volume Location Type Discipline Classification Number
168014-RPSB-VUT-ML-DR-HE-100-00004

Rev
P1

Drawing Status S2	Suitability Fit for Information	Project Ref No. IBH0488			
Scale 1:1250	Designed KC	Drawn By KC	Checked PN	Authorised CD	
Original Size A1	Date 26/03/2018	Date 26/03/2018	Date 15/02/2019	Date 15/02/2019	

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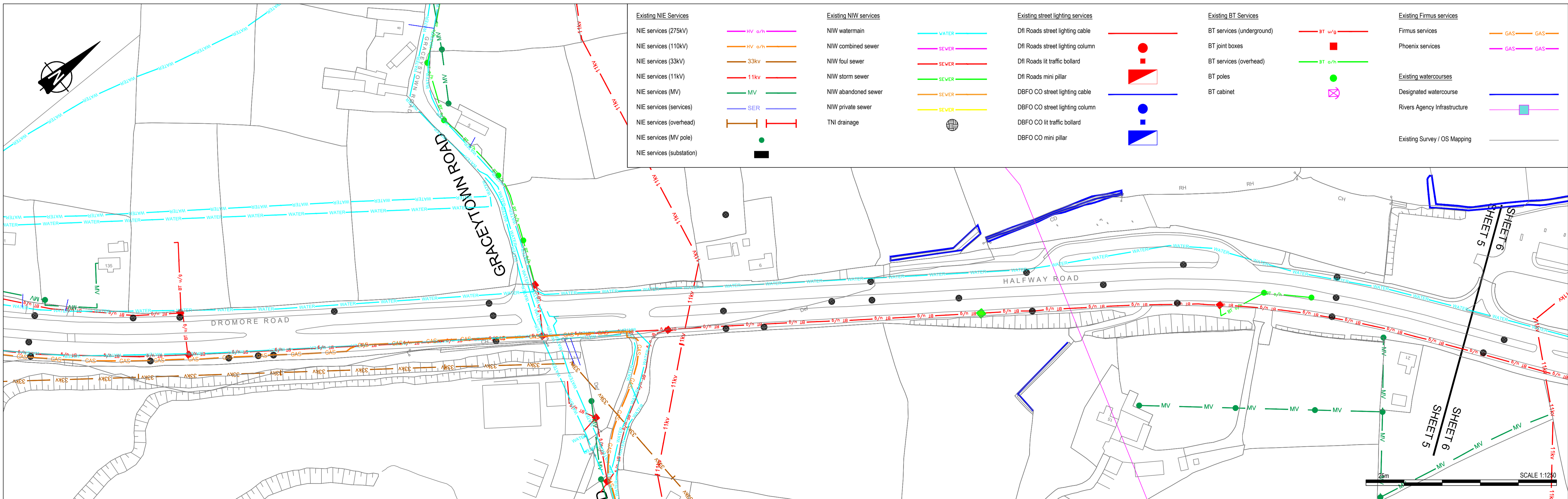
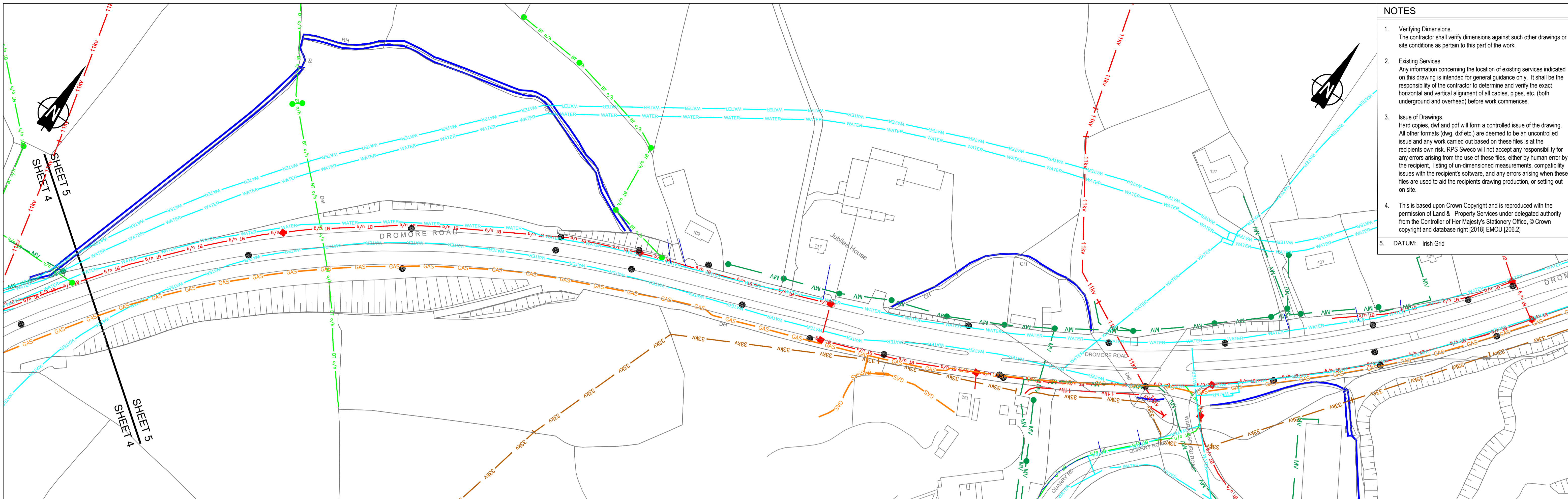
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A1 EXISTING UTILITIES
Sheet 5 of 14

Drawing Number
TNI Ref Originator Volume Location Type Discipline Classification Number
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Rev
P1

Drawing Status S2	Suitability Fit for Information	Project Ref No. IBH0488
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Original Size A1	Date 26/03/2018	Date 26/03/2018
	Date 15/02/2019	Date 15/02/2019
	Checked PN	Authorised CD

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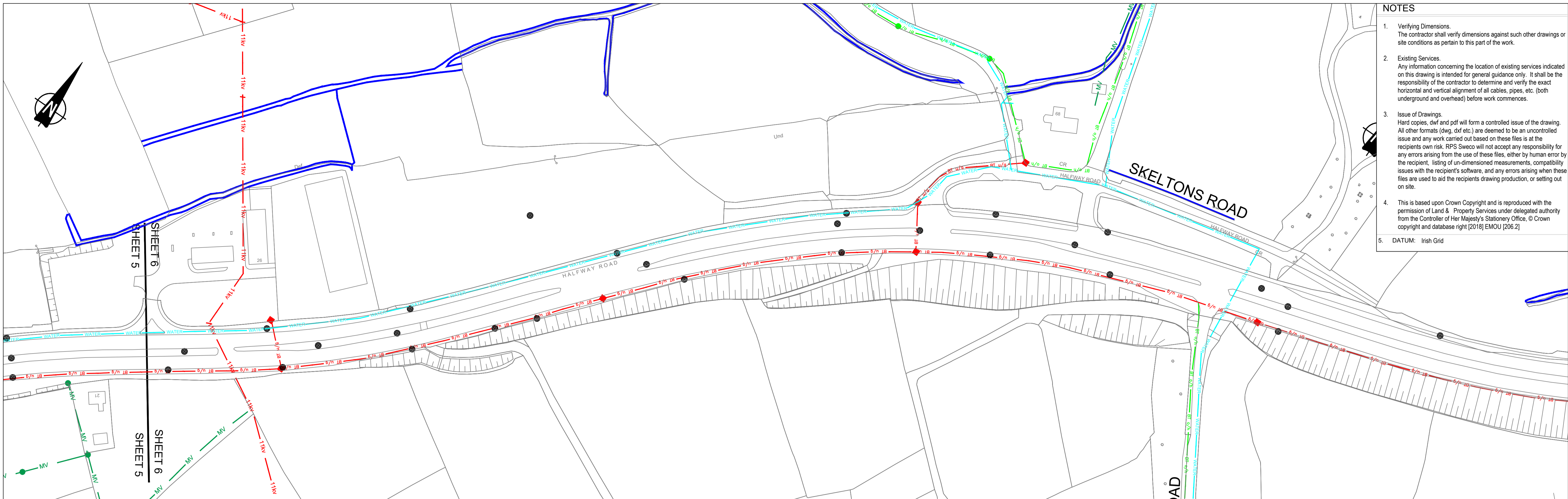
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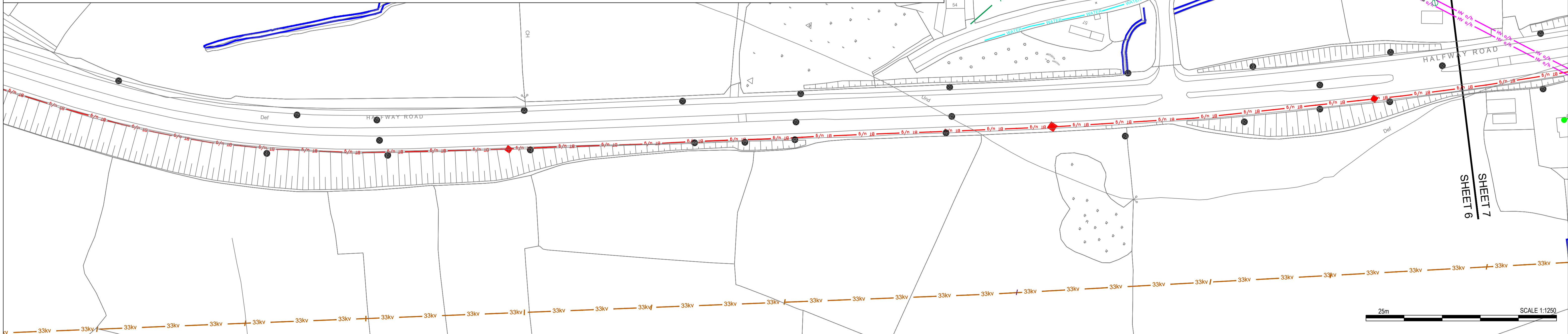
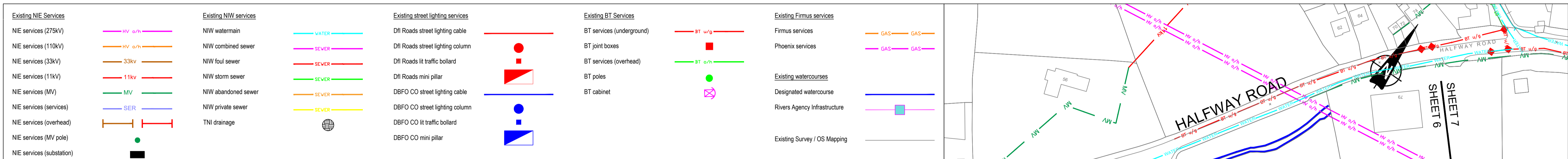
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Drawing Number		TNI Ref Originator Volume Location Type Discipline Classification Number	
168014-RPSB-VUT-ML-DR-HE-100-00006		Rev P1	

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Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	15/02/2019	15/02/2019	

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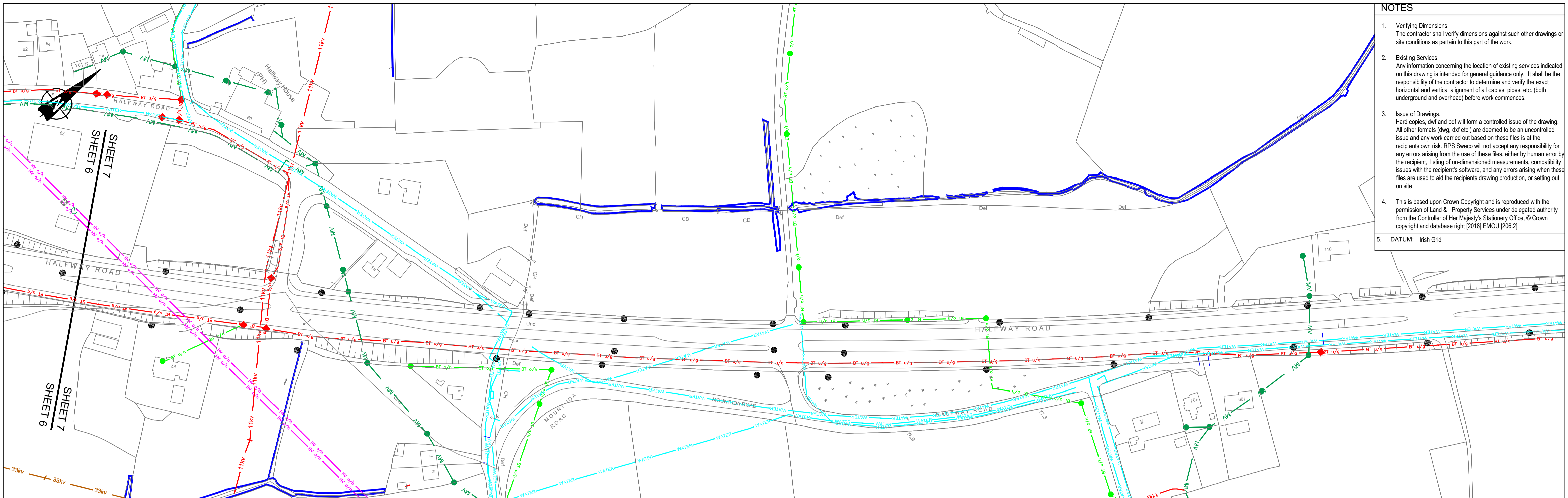
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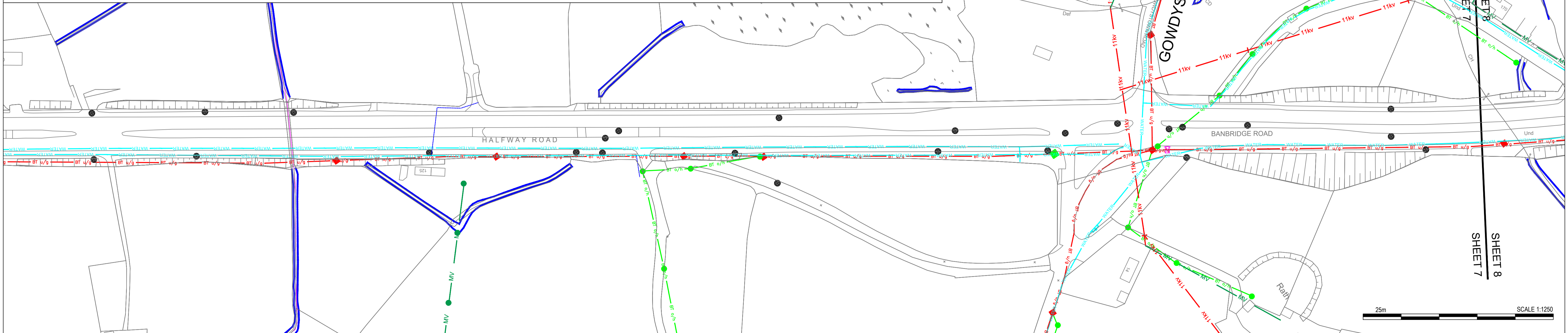
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rev	amendments	drawn	date

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NIE services (275kV)	NIW watermain	DfI Roads street lighting cable	BT services (underground)	Firmus services
NIE services (110kV)	NIW combined sewer	DfI Roads street lighting column	BT joint boxes	Phoenix services
NIE services (33kV)	NIW foul sewer	DfI Roads lit traffic bollard	BT services (overhead)	Existing watercourses
NIE services (11kV)	NIW storm sewer	DfI Roads mini pillar	BT poles	Designated watercourse
NIE services (MV)	NIW abandoned sewer	DBFO CO street lighting cable	BT cabinet	Rivers Agency Infrastructure
NIE services (services)	NIW private sewer	DBFO CO street lighting column		Existing Survey / OS Mapping
NIE services (overhead)	TNI drainage	DBFO CO lit traffic bollard		
NIE services (MV pole)		DBFO CO mini pillar		
NIE services (substation)				



Drawing Title	A1 EXISTING UTILITIES Sheet 7 of 14	
Drawing Number	TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-ML-DR-HE-100-00007	
Rev	P1	

Drawing Status	Suitability	Project Ref No.		
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Original Size	Date	Date	Date	Date
A1	26/03/2018	26/03/2018	15/02/2019	15/02/2019

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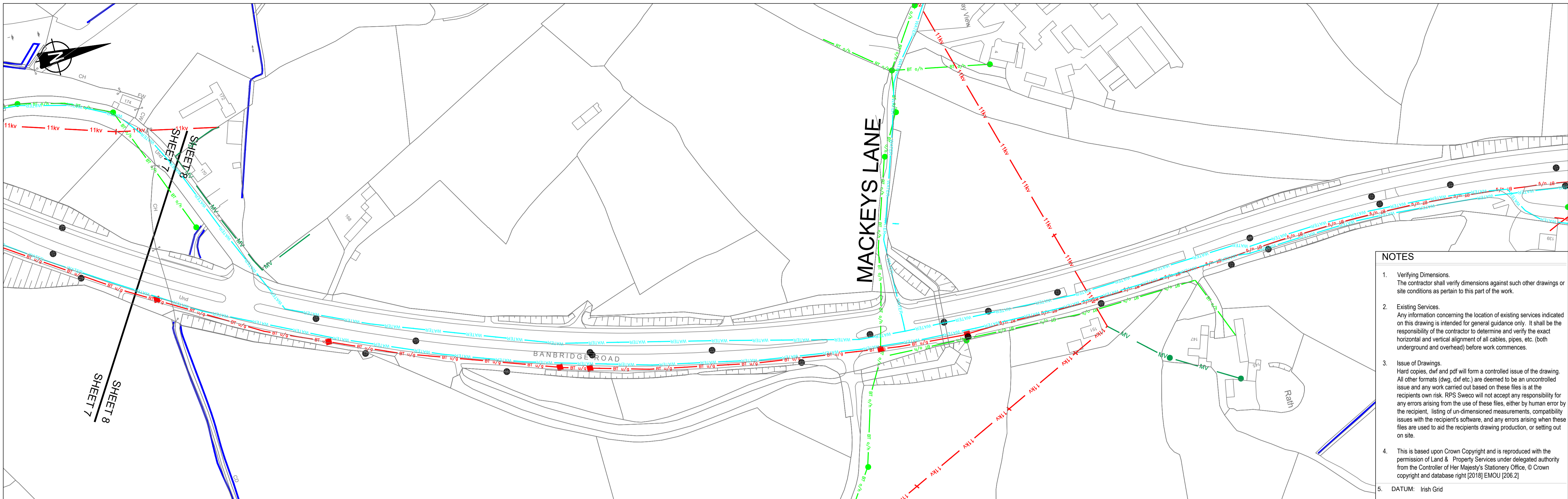
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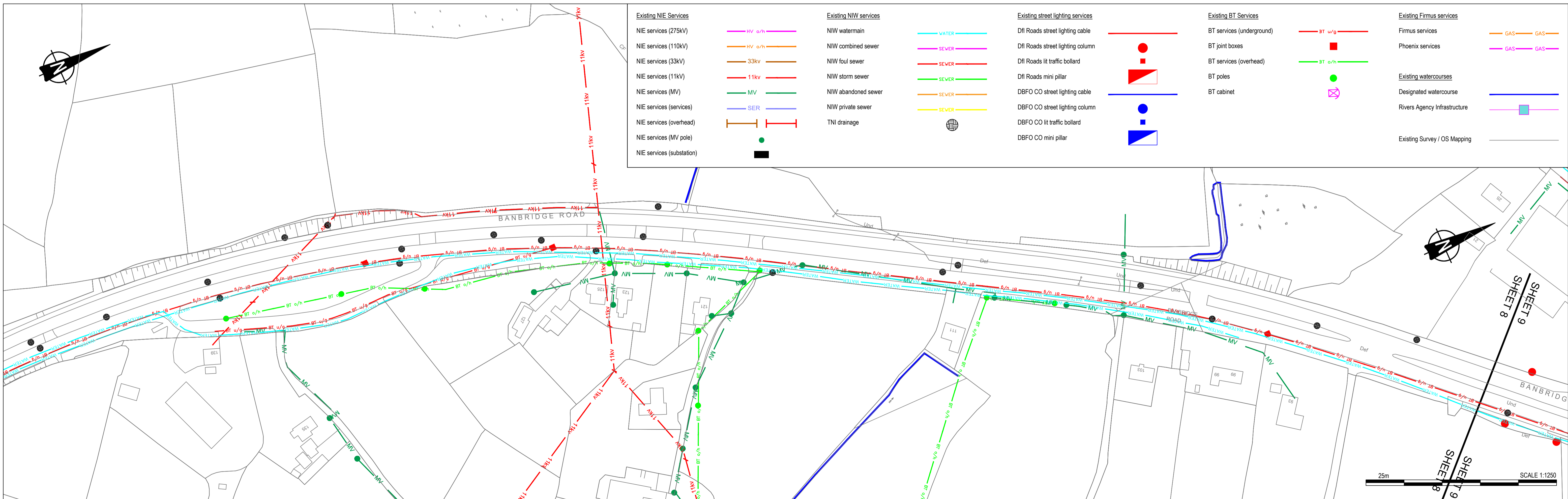
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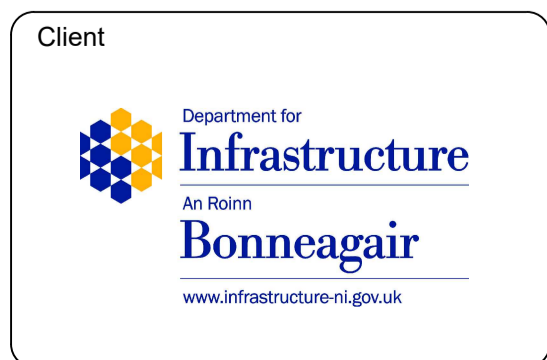


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A1 EXISTING UTILITIES
Sheet 8 of 14

Drawing Number
TNI Ref Originator Volume Location Type Discipline Classification Number
168014-RPSB-VUT-ML-DR-HE-100-00008

Rev
P1

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	Checked PN	Date 15/02/2019
	Authorised CD	Date 15/02/2019

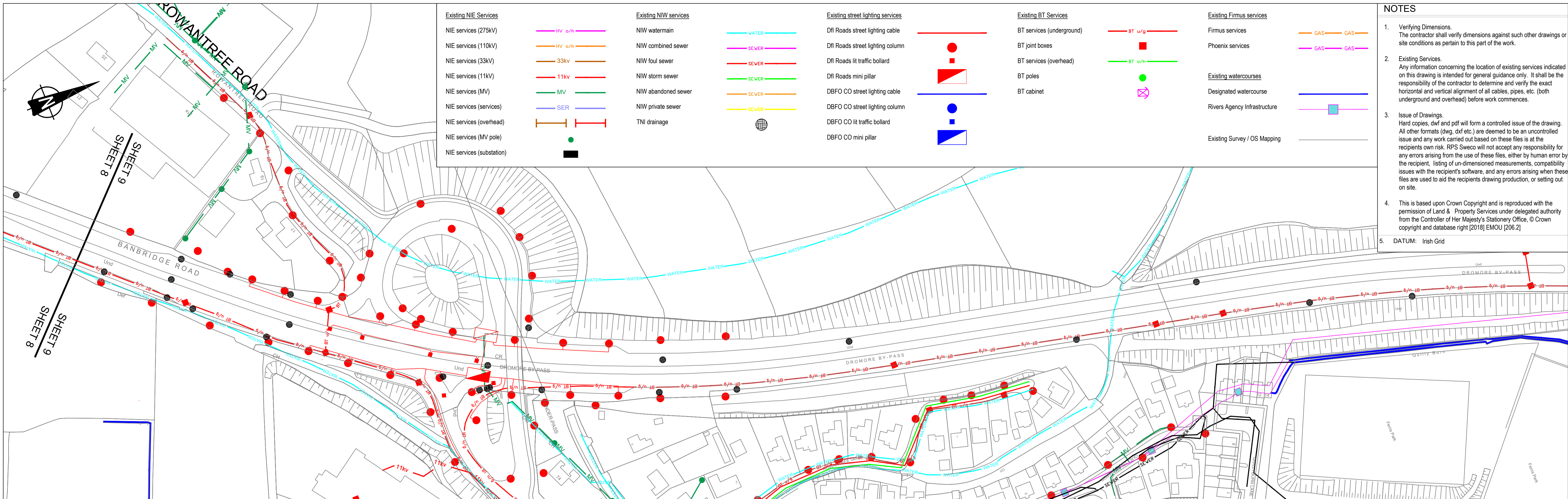


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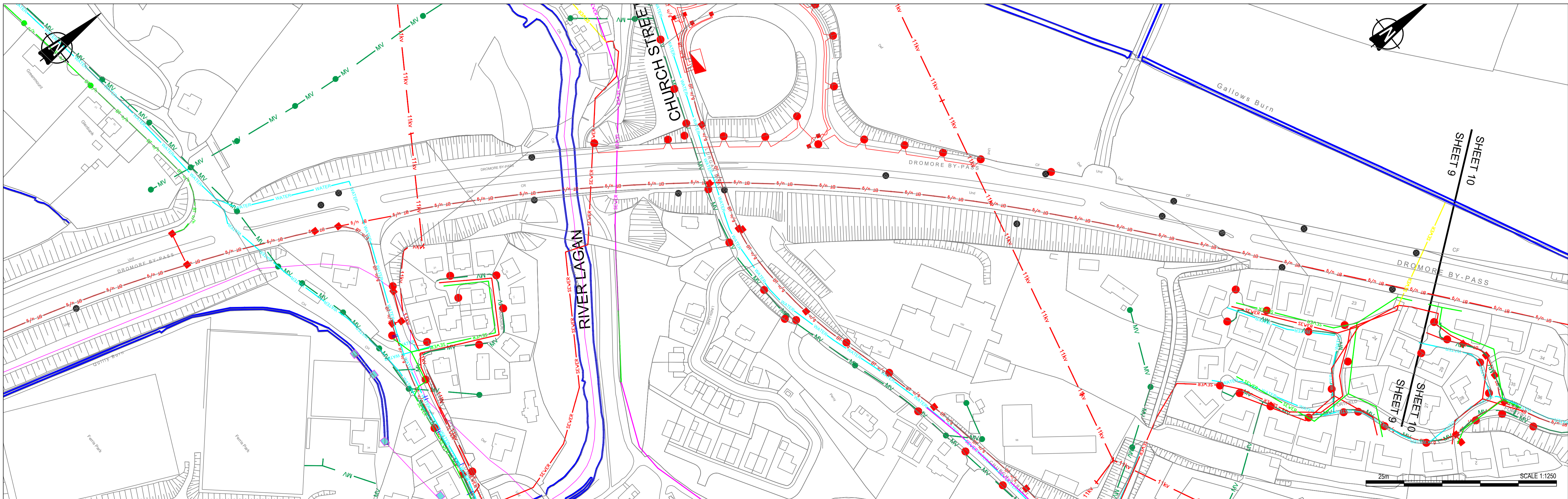
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P1	Updated for inclusion in Stage 3 Scheme Assessment Report	JF	18/02/19
rev	amendments	drawn	date



Existing NIE Services		Existing NIW services		Existing street lighting services		Existing BT Services		Existing Firmus services	
NIE services (275kV)		NIW watermain		DfI Roads street lighting cable		BT services (underground)		Firmus services	
NIE services (110kV)		NIW combined sewer		DfI Roads street lighting column		BT joint boxes		Phoenix services	
NIE services (33kV)		NIW foul sewer		DfI Roads lit traffic bollard		BT services (overhead)		Existing watercourses	
NIE services (11kV)		NIW storm sewer		DfI Roads mini pillar		BT poles		Designated watercourse	
NIE services (MV)		NIW abandoned sewer		DBFO CO street lighting cable		BT cabinet		Rivers Agency Infrastructure	
NIE services (services)		NIW private sewer		DBFO CO lit traffic bollard		Existing Survey / OS Mapping			
NIE services (overhead)		TNI drainage		DBFO CO mini pillar					
NIE services (MV pole)									
NIE services (substation)									

- NOTES**
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Drawing Title
A1 EXISTING UTILITIES
Sheet 9 of 14

Drawing Number
TNI Ref Originator Volume Location Type Discipline Classification Number
168014-RPSB-VUT-ML-DR-HE-100-00009

Rev
C2

Drawing Status	Suitability	Project Ref No.			
A	Fit for Construction	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1250	PN	PN	PN	CD	
Original Size	Date	Date	Date	Date	
A1	15/10/18	15/10/18	14/12/18	14/12/18	

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Department for Infrastructure
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Project
A1 Junctions
Phase 2

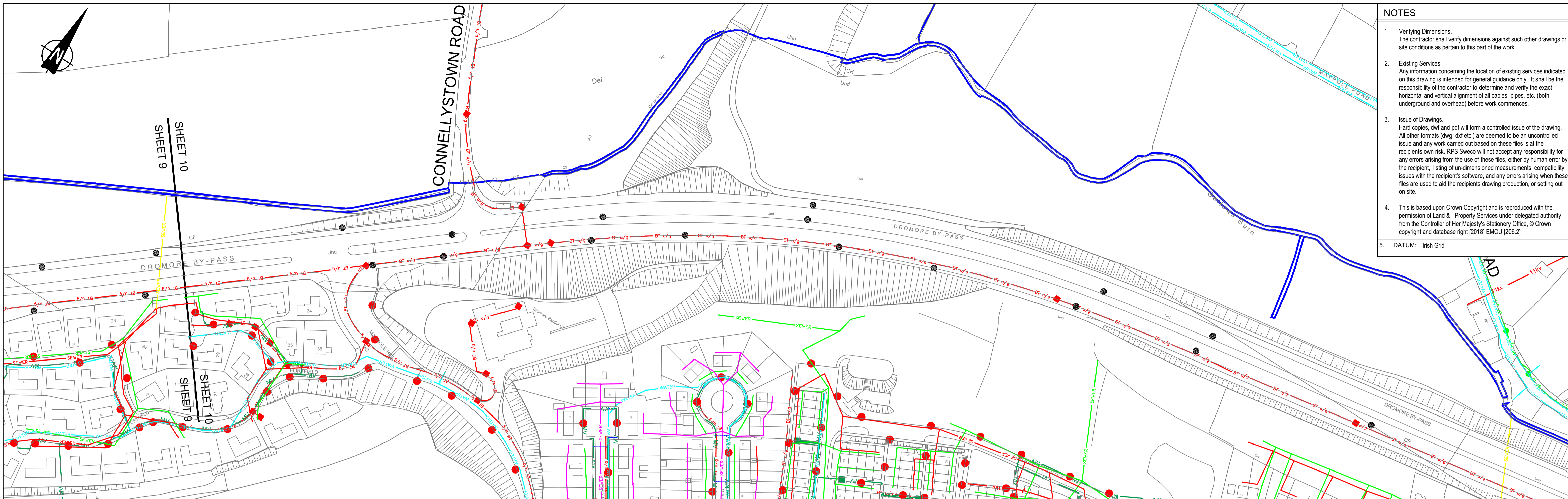
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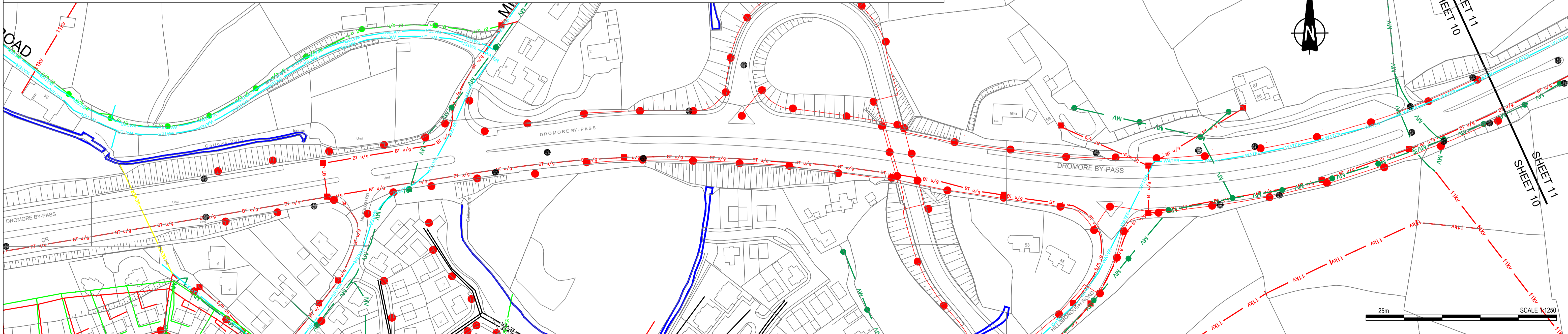
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rev	amendments	drawn	date
C2	Updated for inclusion in Stage 3 Scheme Assessment Report	JF	18/02/19
C1	Drawing Status updated	PN	20/01/19



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Existing NIE Services	Existing NIW services	Existing street lighting services	Existing BT Services	Existing Firmus services
NIE services (275kV)	NIW watermain	DfI Roads street lighting cable	BT services (underground)	Firmus services
NIE services (110kV)	NIW combined sewer	DfI Roads street lighting column	BT joint boxes	Phoenix services
NIE services (33kV)	NIW foul sewer	DfI Roads lit traffic bollard	BT services (overhead)	Existing watercourses
NIE services (11kV)	NIW storm sewer	DfI Roads mini pillar	BT poles	Designated watercourse
NIE services (MV)	NIW abandoned sewer	DBFO CO street lighting cable	BT cabinet	Rivers Agency Infrastructure
NIE services (services)	NIW private sewer	DBFO CO street lighting column		Existing Survey / OS Mapping
NIE services (overhead)	TNI drainage	DBFO CO lit traffic bollard		
NIE services (MV pole)		DBFO CO mini pillar		
NIE services (substation)				



Drawing Title		A1 EXISTING UTILITIES Sheet 10 of 14	
Drawing Number	TNI Ref	Originator	Volume
	168014-RPSB-VUT-ML-DR-HE-100-00010		
Rev	C2		

Drawing Status	Suitability	Project Ref No.		
A	Fit for Construction	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:1250	KJ	KJ	PN	CD
Original Size	Date	Date	Date	Date
A1	15/10/18	15/10/18	14/12/18	14/12/18

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Project

A1 Junctions
Phase 2

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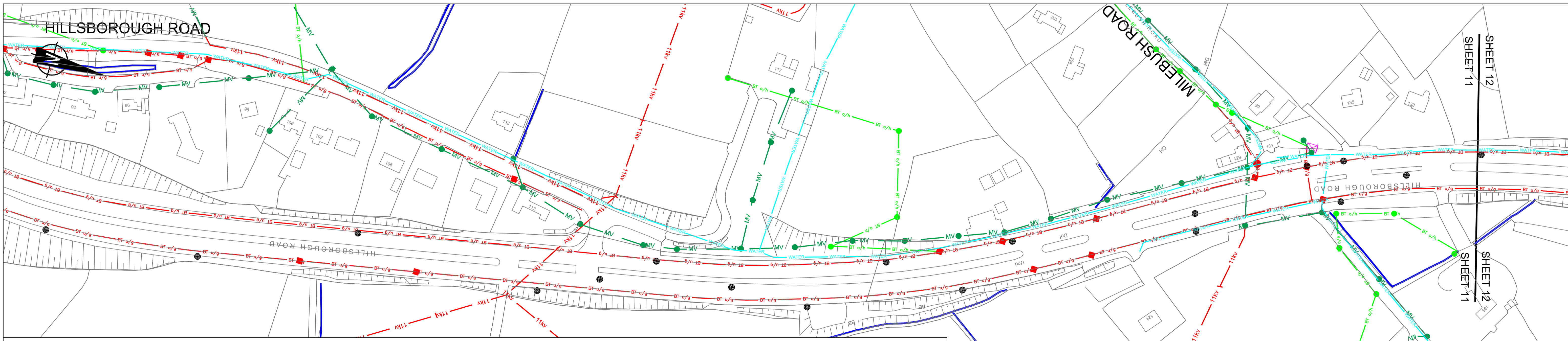
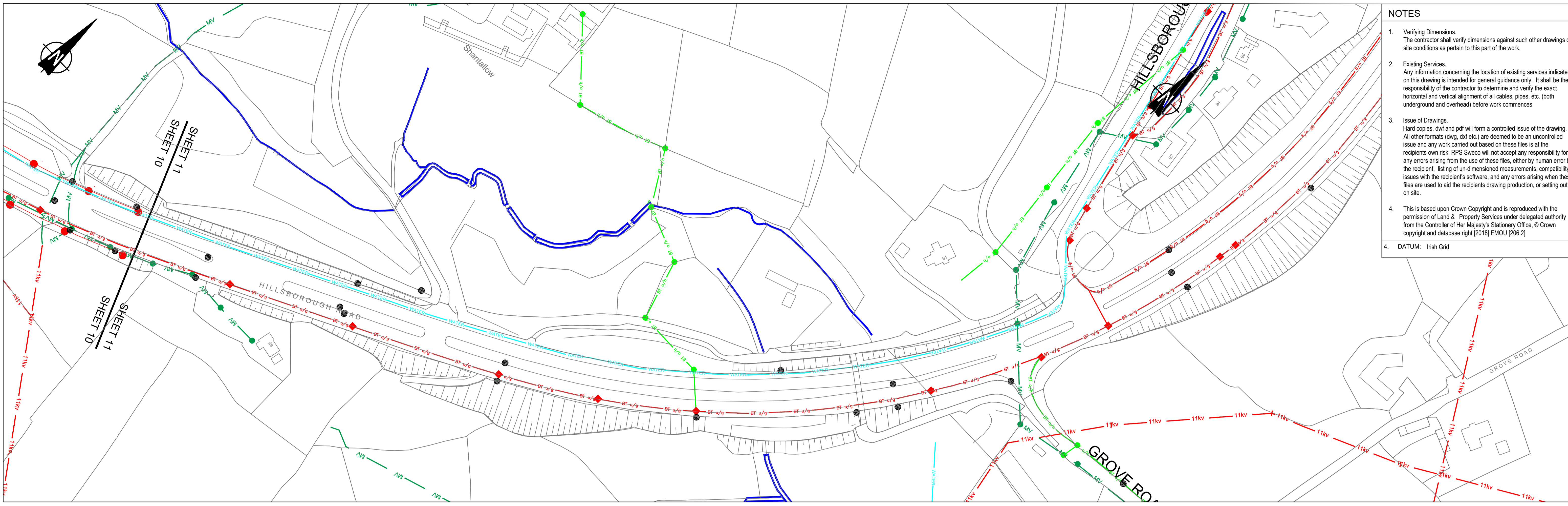
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C1	Drawing Status updated	PN	20/01/19
rev	amendments	drawn	date

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Existing NIE Services		Existing NIW services		Existing street lighting services		Existing BT Services		Existing Firmus services	
NIE services (275kV)		NIW watermain		DfI Roads street lighting cable		BT services (underground)		Firmus services	
NIE services (110kV)		NIW combined sewer		DfI Roads street lighting column		BT joint boxes		Phoenix services	
NIE services (33kV)		NIW foul sewer		DfI Roads lit traffic bollard		BT services (overhead)		Existing watercourses	
NIE services (11kV)		NIW storm sewer		DfI Roads mini pillar		BT poles		Designated watercourse	
NIE services (MV)		NIW abandoned sewer		DBFO CO street lighting cable		BT cabinet		Rivers Agency Infrastructure	
NIE services (services)		NIW private sewer		DBFO CO lit traffic bollard				Existing Survey / OS Mapping	
NIE services (overhead)		TNI drainage		DBFO CO mini pillar					
NIE services (MV pole)									
NIE services (substation)									

25m SCALE 1:1250

Drawing Title		A1 EXISTING UTILITIES Sheet 11 of 14	
Drawing Number		TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-ML-DR-HE-100-00011	
Rev		P1	

Drawing Status		Suitability		Project Ref No.	
S2		Fit for Information		IBH0488	
Scale	Designed	Drawn By	Checked	Authorised	
1:1250	KC	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	15/02/2019	15/02/2019	

Client

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Project

A1 Junctions
Phase 2

Consultant

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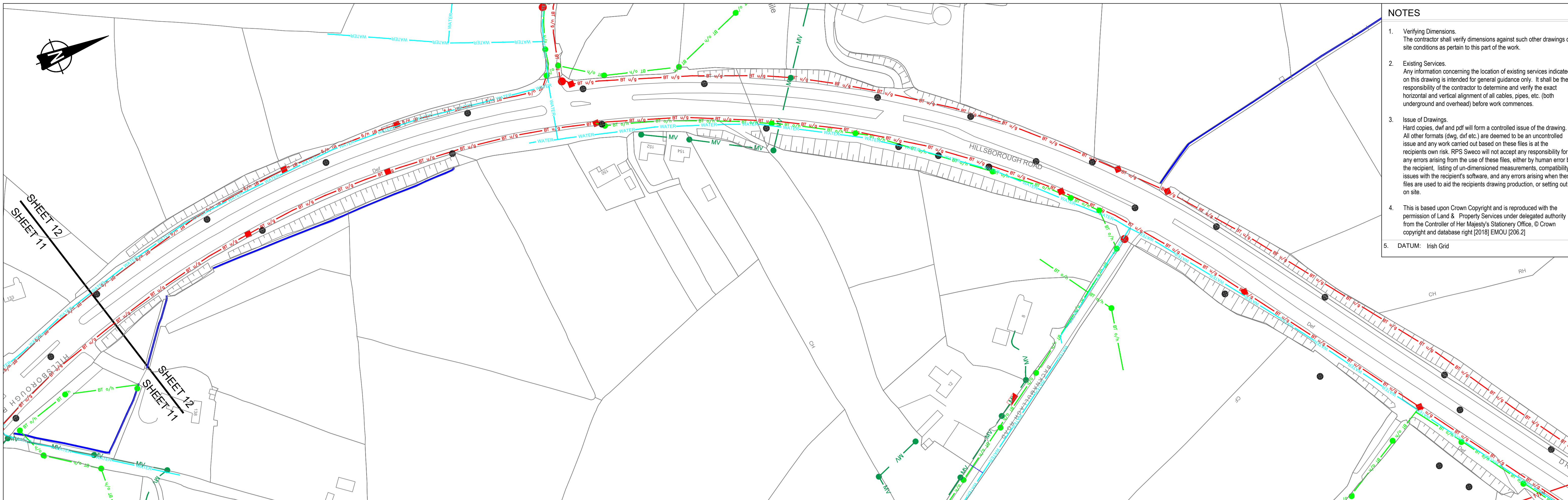
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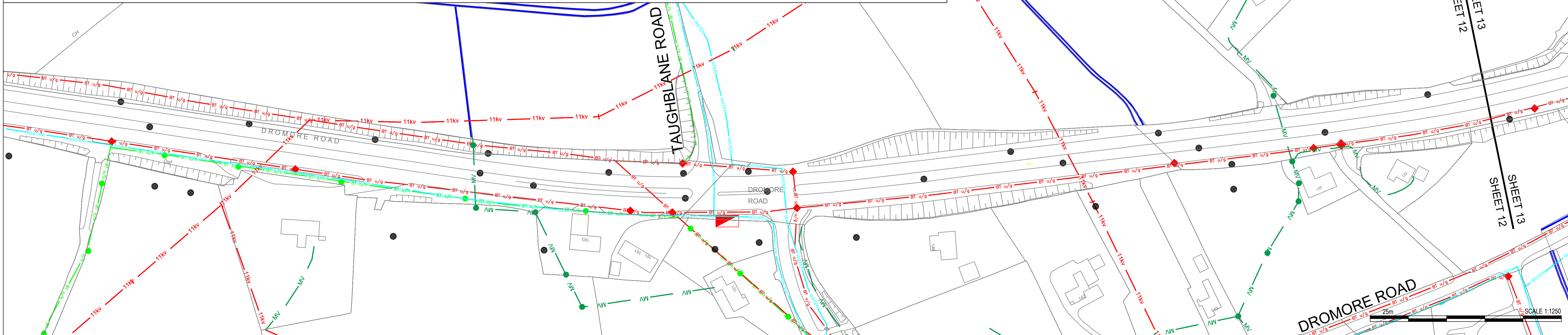
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P1	Updated for inclusion in Stage 3 Scheme Assessment Report	JF	18/02/19
rev	amendments	drawn	date

- NOTES**
1. Verifying Dimensions.
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 5. DATUM: Irish Grid



Existing NIE Services	Existing NIW services	Existing street lighting services	Existing BT Services	Existing Firmus services
NIE services (275kv) — HV o/h	NIW watermain — WATER	DfI Roads street lighting cable — DfI Roads street lighting column	BT services (underground) — BT u/g	Firmus services — GAS
NIE services (110kv) — HV o/h	NIW combined sewer — SEWER	DfI Roads street lighting bollard	BT joint boxes — BT jbx	Phoenix services — GAS
NIE services (33kv) — 33kv	NIW foul sewer — SEWER	DfI Roads lit traffic bollard	BT services (overhead) — BT o/h	Existing watercourses
NIE services (11kv) — 11kv	NIW storm sewer — SEWER	DfI Roads mini pillar	BT poles — BT pole	Designated watercourse — Designated watercourse
NIE services (MV) — MV	NIW abandoned sewer — SEWER	DBFO CO street lighting cable	BT cabinet — BT cabinet	Rivers Agency Infrastructure — Rivers Agency Infrastructure
NIE services (services) — SER	NIW private sewer — SEWER	DBFO CO street lighting column		Existing Survey / OS Mapping — Existing Survey / OS Mapping
NIE services (overhead) — SER	TNI drainage — TNI drainage	DBFO CO lit traffic bollard		
NIE services (MV pole) — MV pole		DBFO CO mini pillar		
NIE services (substation) — Substation				



Drawing Title
A1 EXISTING UTILITIES
Sheet 12 of 14

Drawing Number
TNI Ref Originator Volume Location Type Discipline Classification Number
168014-RPSB-VUT-ML-DR-HE-100-00012

Rev
P1

Drawing Status S2	Suitability Fit for Information	Project Ref No. IBH0488		
Scale 1:1250	Designed KC	Drawn By KC	Checked PN	Authorised CD
Original Size A1	Date 26/03/2018	Date 26/03/2018	Date 15/02/2019	Date 15/02/2019

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A1 Junctions Phase 2

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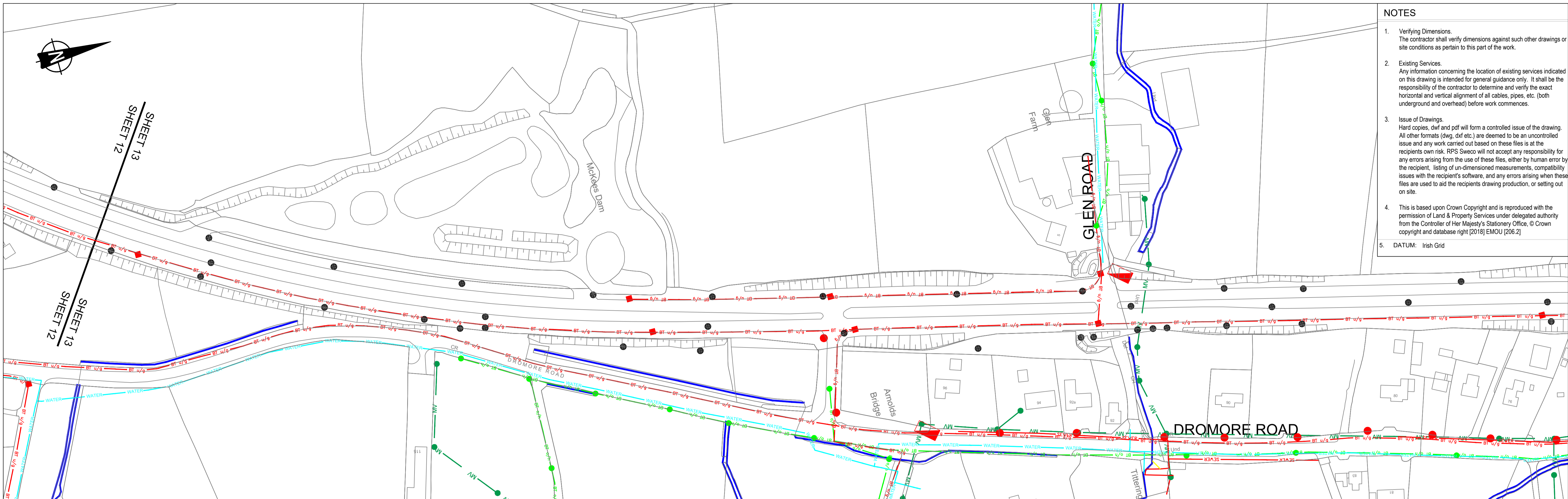
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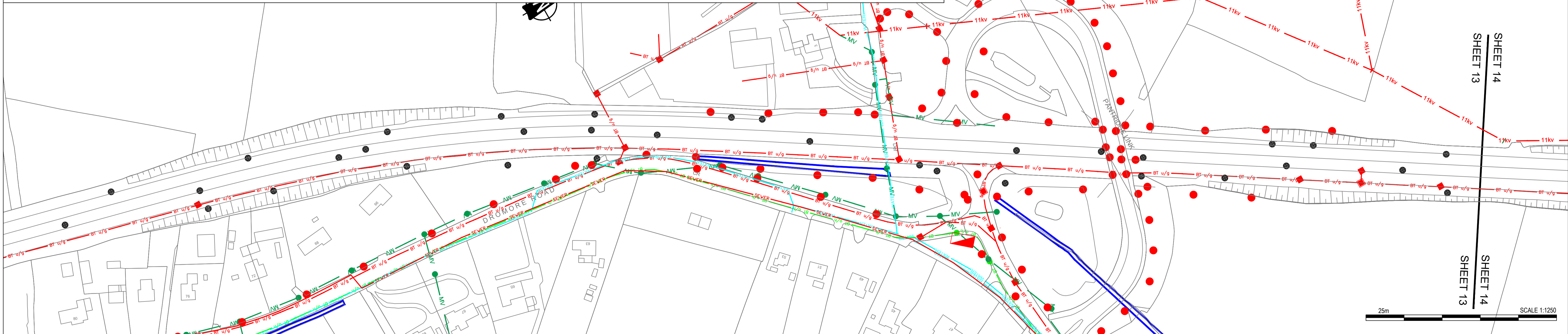
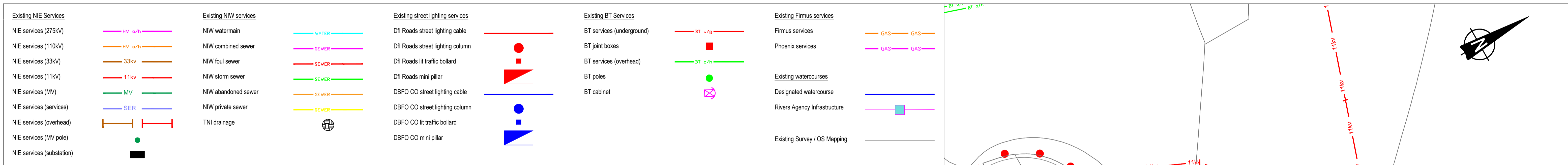
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P1	Updated for inclusion in Stage 3 Scheme Assessment Report	JF	18/02/19
rev	amendments	drawn	date



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Drawing Title		A1 EXISTING UTILITIES Sheet 13 of 14	
Drawing Number		TNI Ref / Originator / Volume / Location / Type / Discipline / Classification / Number	
		168014-RPSB-VUT-ML-DR-HE-100-00013	
Rev		C2	

Drawing Status		Suitability		Project Ref No.	
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Scale	Designed	Drawn By	Checked	Authorised	
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Original Size	Date	Date	Date	Date	
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Client

Project

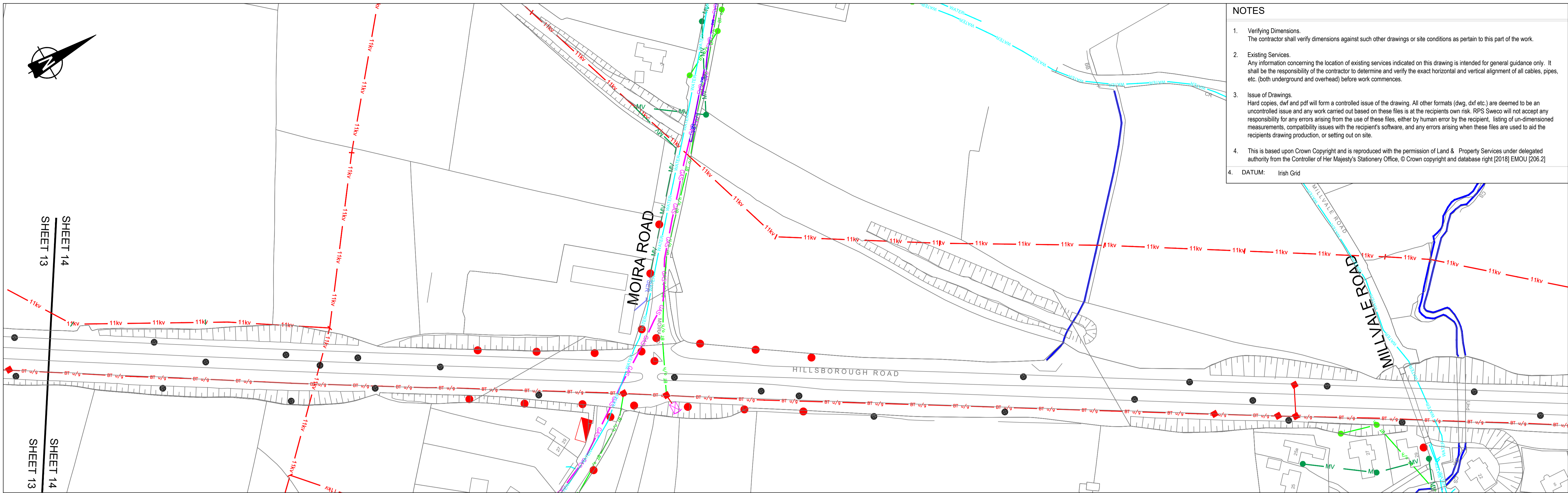
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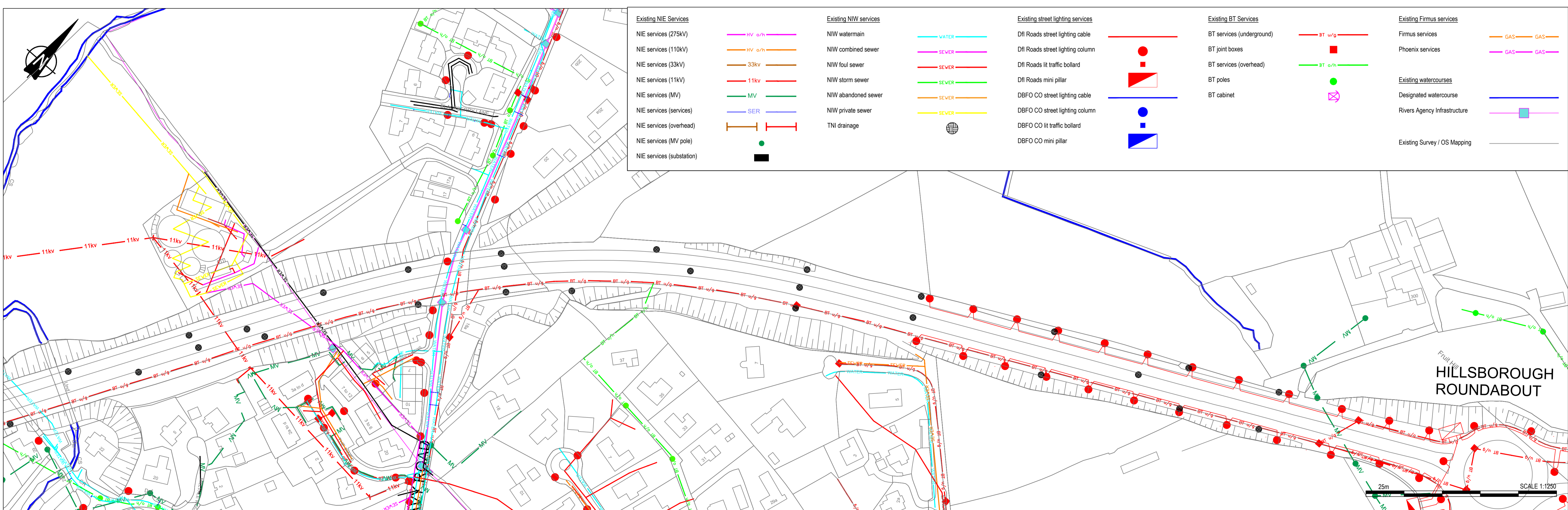
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C1	Drawing Status updated	PN	20/01/19
P2	Service Information Updated	PN	15/10/18
P1	Drawing Status Updated	PN	25/01/17
rev	amendments	drawn	date



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Drawing Title		A1 EXISTING UTILITIES Sheet 14 of 14	
Drawing Number		TNI Ref / Originator / Volume / Location / Type / Discipline / Classification / Number 163014-RPSB-VUT-ML-DR-HE-100-00014	
Rev		P2	

Drawing Status	Suitability	Project Ref No.		
S2	Fit for Information	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:1250	KC	KC	PN	CD
Original Size	Date	Date	Date	Date
A1	26/03/2018	26/03/2018	15/02/2019	15/02/2019

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Project

A1 Junctions
Phase 2

Consultant

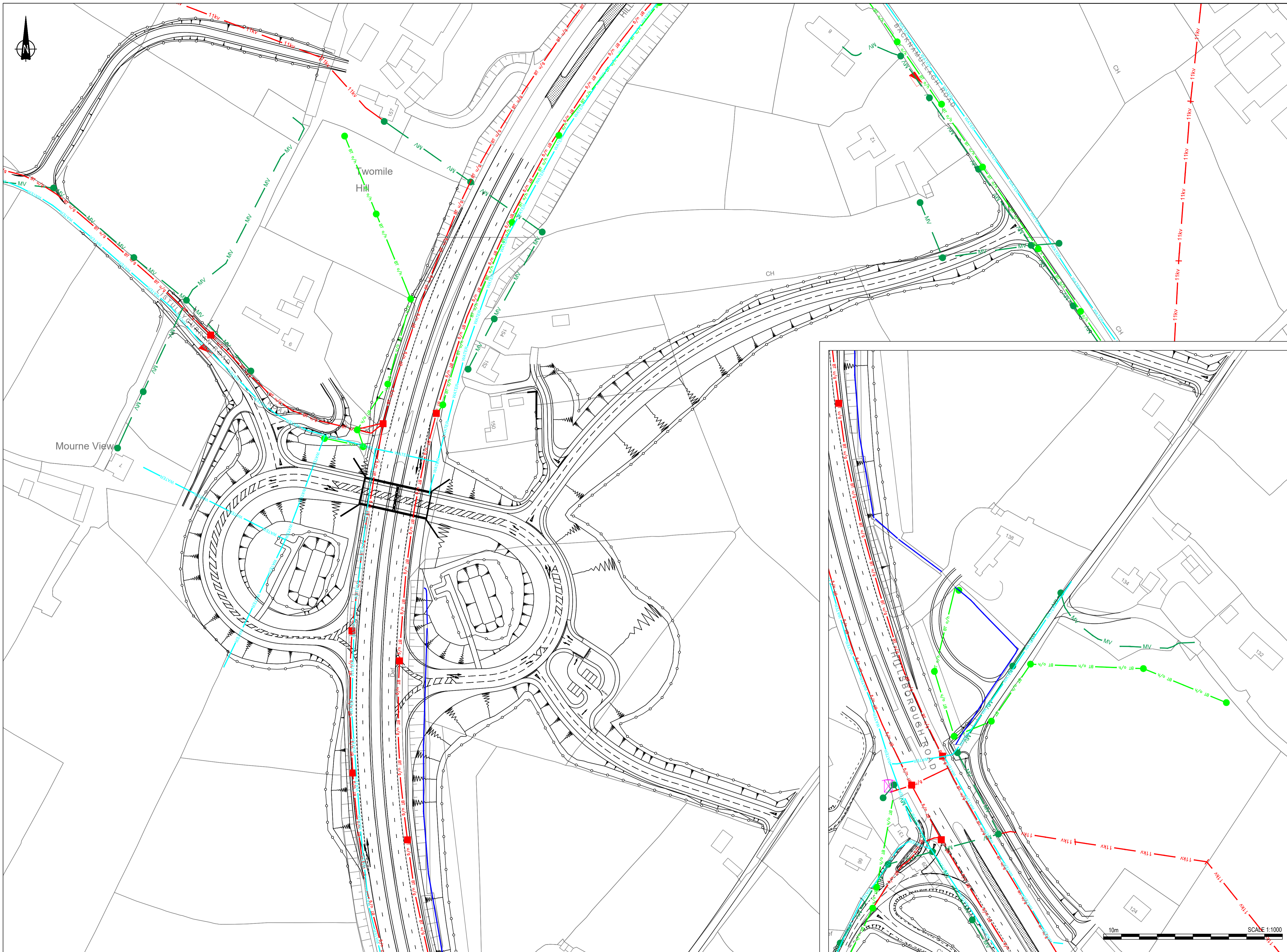
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P1	Drawing status updated	PN	25/01/17
rev	amendments	drawn	date



NOTES

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- DATUM: Irish Grid

Key

Existing Survey / OS Mapping

Proposed Layout

Existing BT Services

BT services (underground)

BT joint boxes

BT services (overhead)

BT poles

BT cabinet

Existing NIE Services

NIE services (275kV)

NIE services (110kV)

NIE services (33kV)

NIE services (11kV)

NIE services (MV)

NIE services (services)

NIE services (overhead)

NIE services (MV pole)

NIE services (substation)

Existing NIW services

NIW watermain

NIW combined sewer

NIW foul sewer

NIW storm sewer

NIW abandoned sewer

NIW private sewer

Existing street lighting services

DfI Roads street lighting column

DfI Roads lit traffic bollard

DfI Roads mini pillar

DBFO CO street lighting column

DBFO CO lit traffic bollard

DBFO CO mini pillar

Existing Firmus services

Firmus services

Phoenix services

Existing watercourses

Designated watercourse

Rivers Agency Infrastructure

**JUNCTION 1 - LISTULLYCURRAN
EXISTING UTILITY SERVICES**

Drawing Number
TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number
168014-RPSB-VUT-J1-DR-HE-100-00001

Rev P1

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488			
Scale 1:1000	Designed KC	Drawn By KC	Checked PN	Authorised CD	
Original Size A1	Date 20/03/2018	Date 20/03/2018	Date 18/02/2019	Date 18/02/2019	

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**A1 Junctions
Phase 2**

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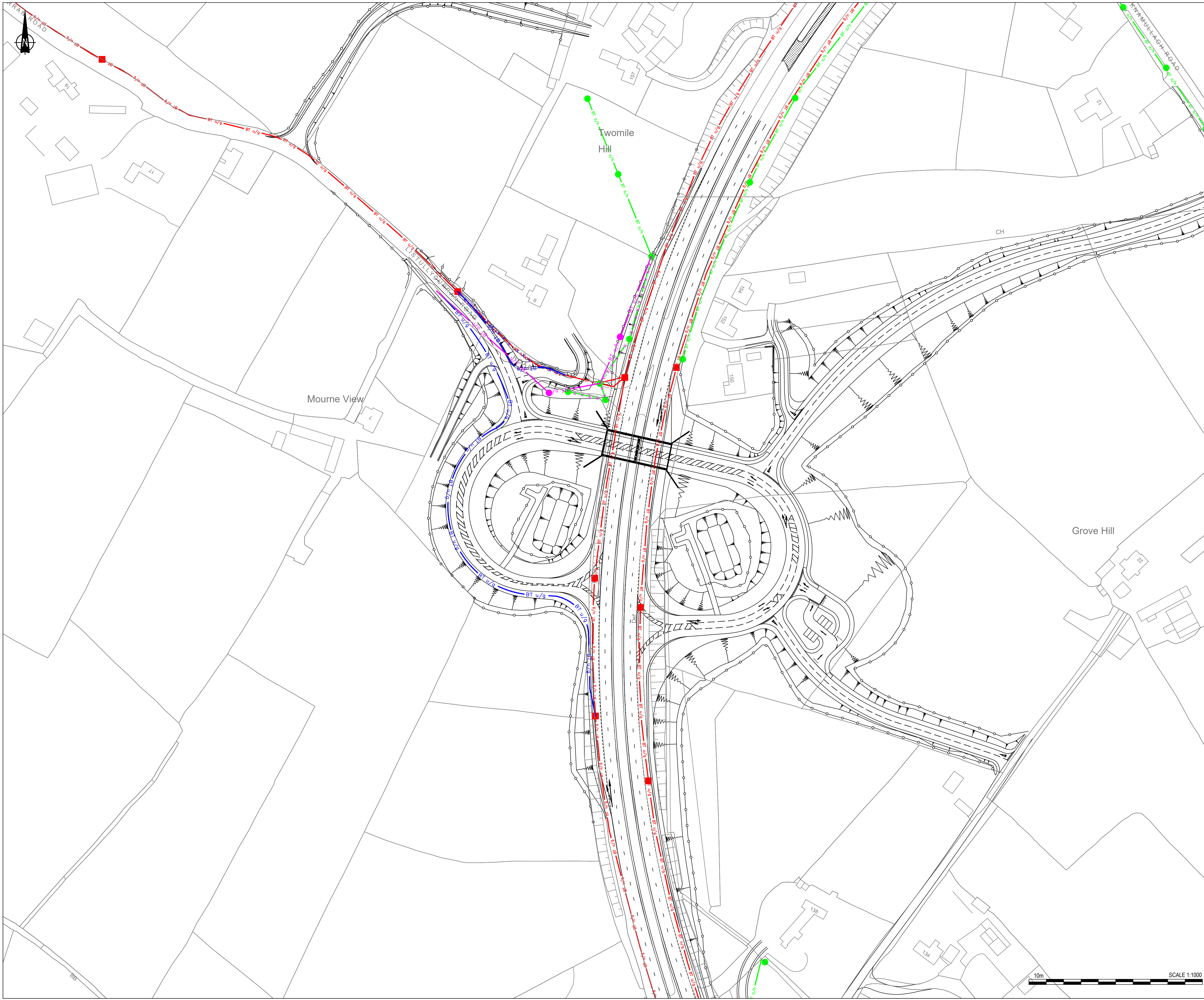
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rev	amendments	drawn	date



NOTES

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4. DATUM: Irish Grid

5. Legend:
- Existing Survey / OS Mapping
 - Proposed Layout
- BT Existing Services**
- Existing BT services (underground)
 - Existing BT joint boxes
 - Existing BT services (overhead)
 - Existing BT poles
 - Existing BT cabinet
- Diverted BT Services**
- Proposed BT services (overhead)
 - Proposed BT services (underground)
 - Existing BT services abandoned (overhead)
 - Existing BT services abandoned (underground)
 - Proposed BT poles

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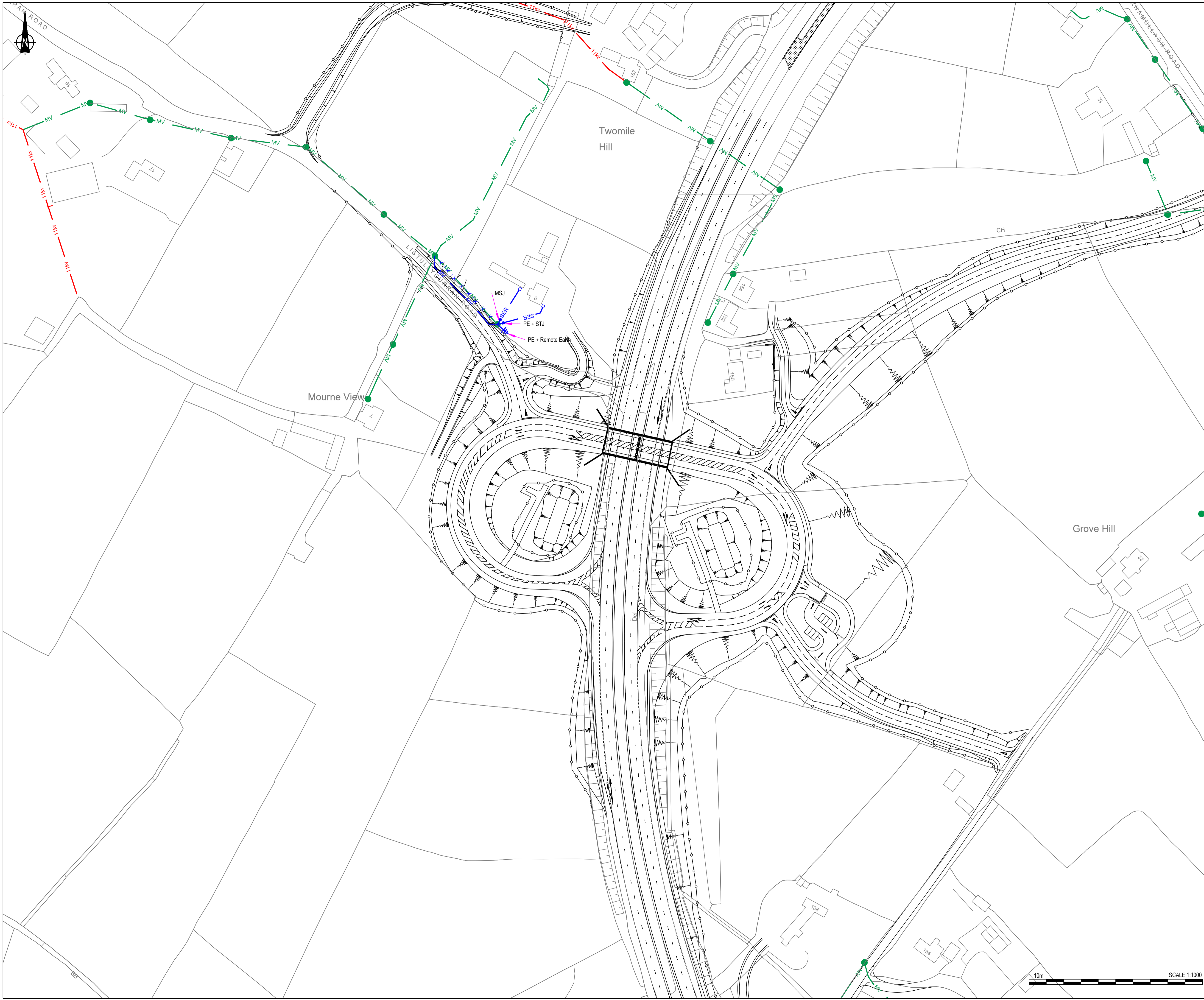
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Project

A1 Junctions
Phase 2

Title
**Proposed Service Diversions
British Telecommunications**

Drawing Status	Suitability	Project Ref No.			
S0	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	KC	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019	
Drawing Number	P1				
TNI Ref	Originator	Volume	Location	Type	Classification
168014-RPSB-VUT-J1-DR-HE-100-00002					



NOTES

- Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
- 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.
- DATUM: Irish Grid
- Legend:

	Existing Survey / OS Mapping
	Proposed Layout

NIE Existing Services

	Existing NIE services (275kV)
	Existing NIE services (110kV)
	Existing NIE services (33kV)
	Existing NIE services (11kV)
	Existing NIE services (MV)
	Existing NIE services (SER)
	Existing NIE services (overhead)
	Existing NIE services (MV pole)
	Existing NIE services (substation)

NIE Diverted Services

	Proposed NIE services (MV)
	Proposed NIE services (SER)
	NIE services (abandoned)
	Proposed NIE services (intermediate / remote earth)
	Proposed ducting

IMPORTANT WARNING

Caution! Cable positions are approximate only. Please note that smaller service cables may not be shown. Always remember that it is the responsibility of the excavator/contractor to locate and avoid damage to N.I.E. equipment. Failure to do so may result in those responsible being held liable.

If any damage whatsoever occurs to NIE equipment all work in the vicinity must stop immediately and the damage must be reported at once to NIE on the following number 03457 643 643
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Client

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 www.infrastructure-ni.gov.uk

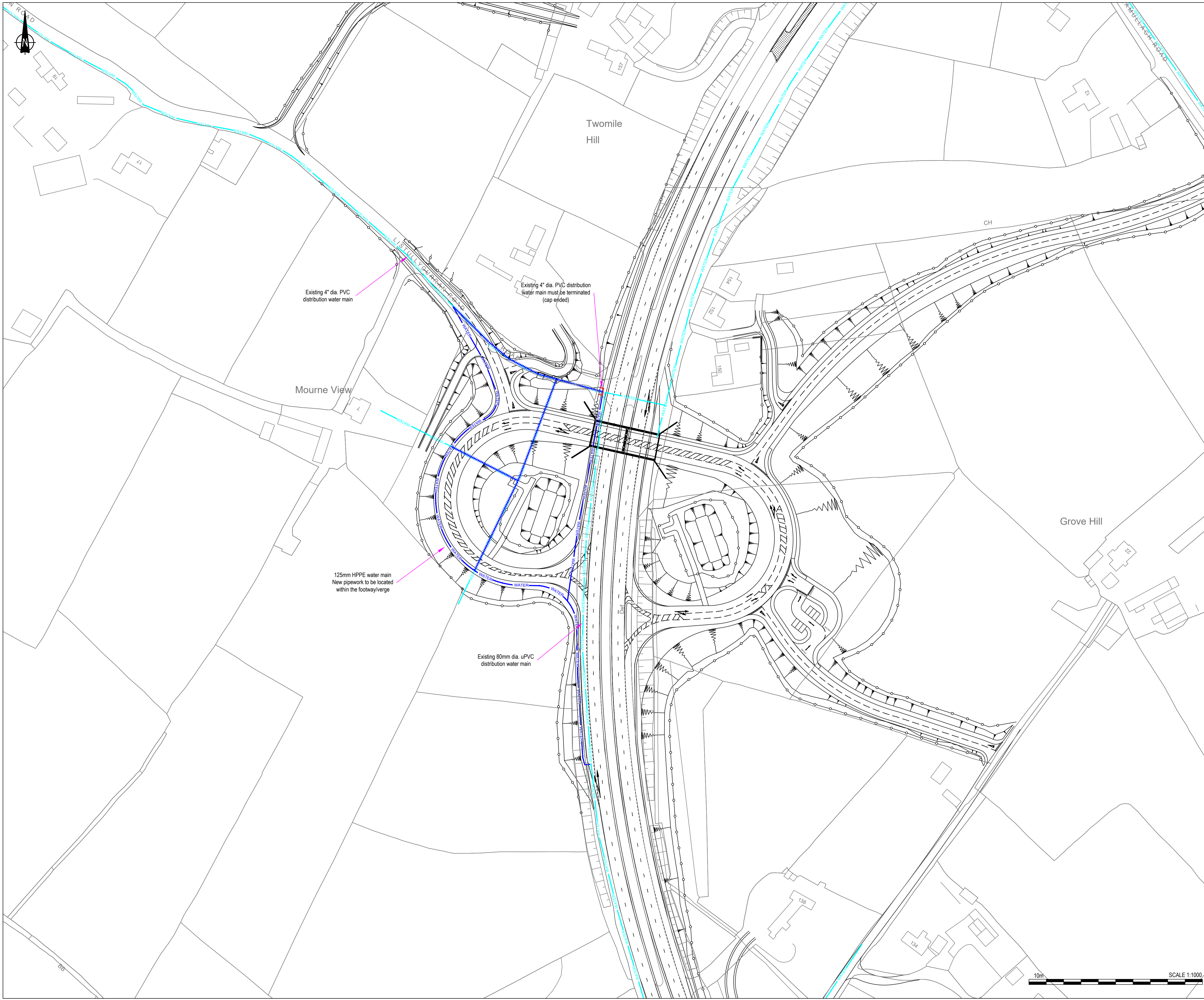
Project

A1 Junctions Phase 2

Title

Proposed Service Diversions Northern Ireland Electricity

Drawing Status	Suitability	Project Ref No.		
S0	For Information	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:1000	KC	KC	PN	CD
Original Size	Date	Date	Date	Date
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019
Drawing Number	P1			
TNI Ref Originator Volume Location Type Discipline Classification Number				
168014-RPSB-VUT-J1-DR-HE-100-00003				



- NOTES**
1. Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
 2. Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
 3. Issue of Drawings.
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4. DATUM: Irish Grid

5. Legend:

	Existing Survey / OS Mapping
	Proposed Layout
NIW Existing services	
	Existing NIW services
Diverted NIW services	
	Proposed NIW services
	Existing NIW services (abandoned)
	Proposed NIW services (cap end)

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Existing 4" dia. PVC distribution water main

Existing 4" dia. PVC distribution water main must be terminated (cap ended)

125mm HPPE water main
New pipework to be located within the footway/verge

Existing 80mm dia. uPVC distribution water main

REV	COMMENT	DRAWN	CH	AP	DATE

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Project

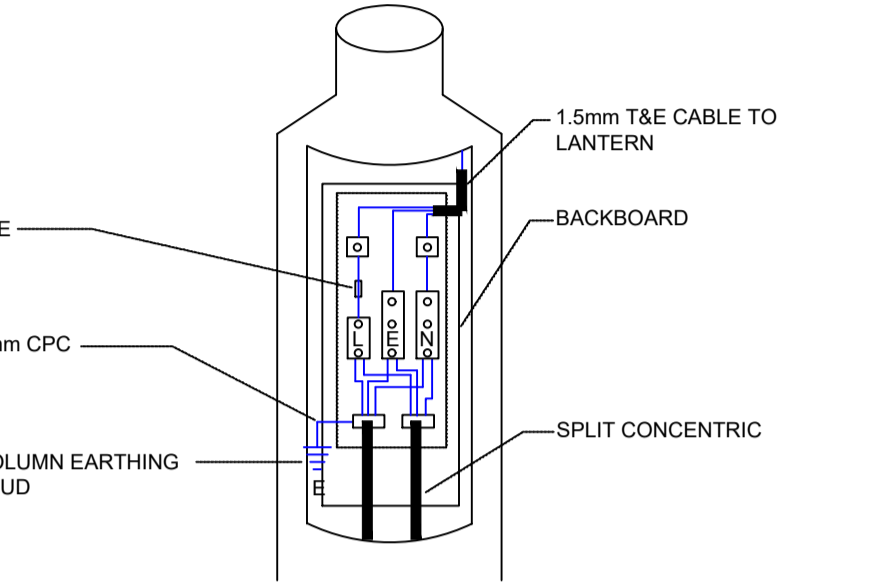
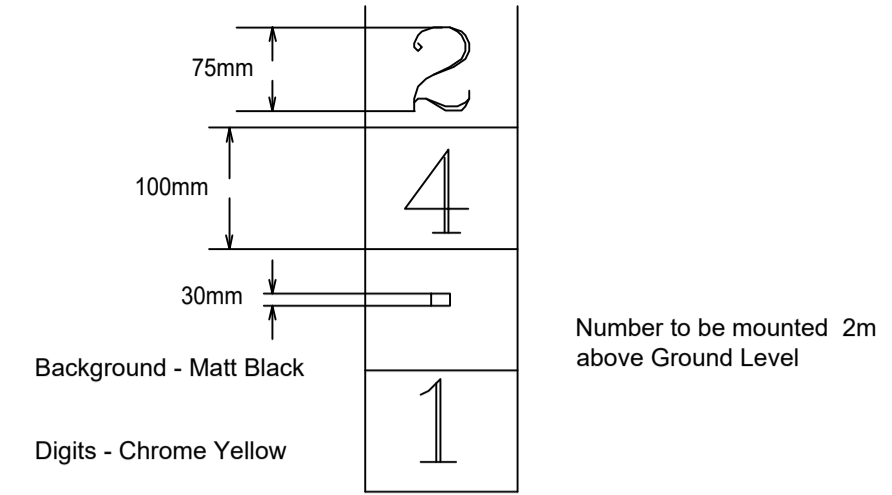
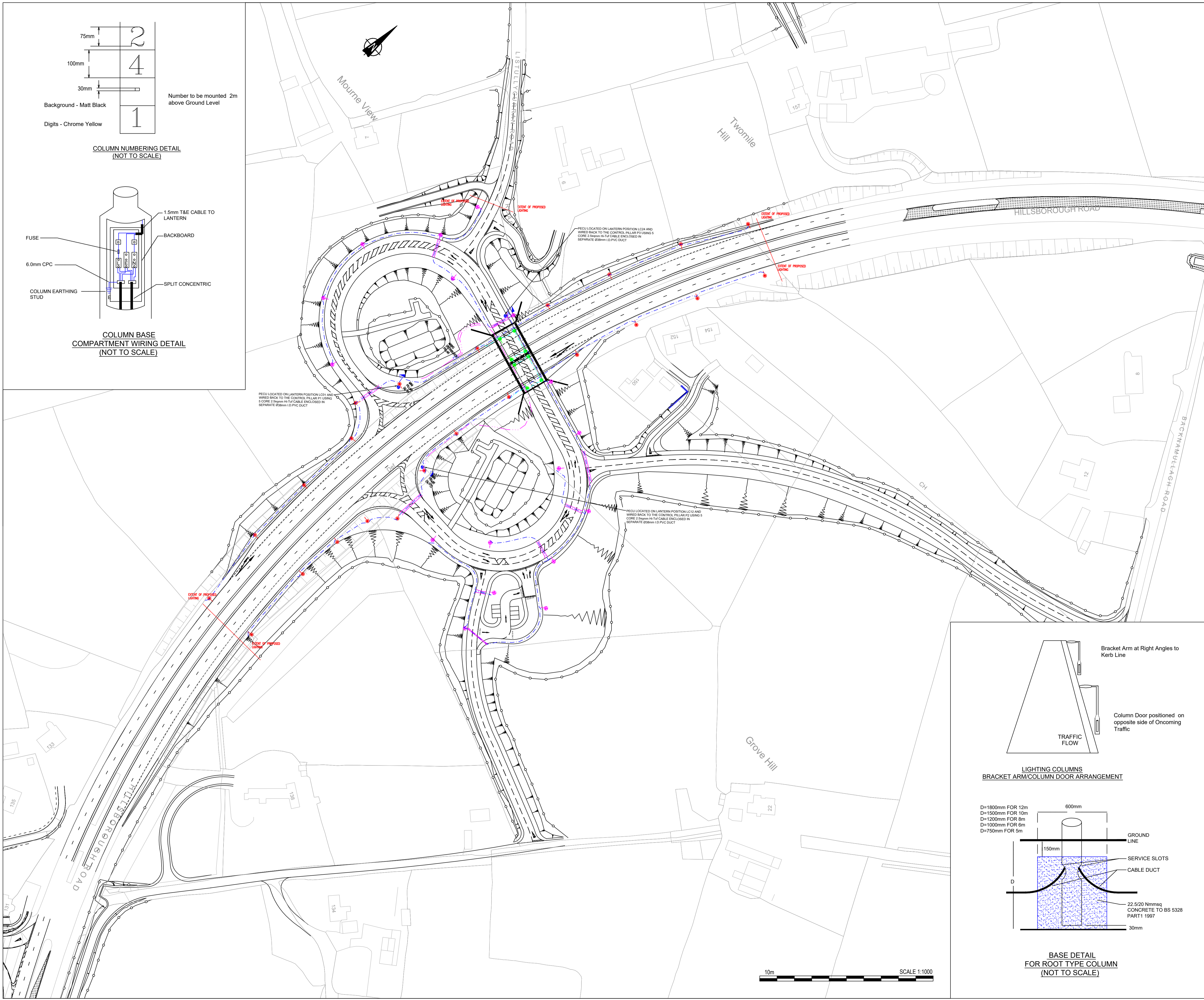
A1 Junctions Phase 2

Title

Proposed Service Diversions
Northern Ireland Water

Drawing Status	Suitability	Project Ref No.		
S0	For Information	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:1000	KC	KC	PN	CD
Original Size	Date	Date	Date	Date
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019
Drawing Number	P1			
TNI Ref	Originator	Volume	Location	Type Discipline Classification Number
168014-RPSB-VUT-J1-DR-HE-100-00004				





NOTES

- Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services. Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
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4. DATUM: Irish Grid

5. KEY

- MATERIAL SPECIFICATION**
- HYLITE HL10 PHOTOELECTRIC CELL
 - 35.05QMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
 - 16.05QMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
 - 2.5SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
 - MAINS DISTRIBUTION PILLAR
 - CONTROL AND DISTRIBUTION PILLAR
 - Ø150mm DUCT (FOR CABLE IN ROAD INSTALLATION)

KEY:

LANTERN DETAILS

- Lantern Type : AMPERA MAXI 5068-128 LEDs 700mA NW Flat
- Maintenance Factor : 0.83
- Lamp Type : 128 LEDs
- Lamp Output : 27230 lumens
- Height : 10 metres
- Bracket Length : BOTTOM ENTRY MOUNTED
- Inclination : 5°
- No of Units : 23
- Driver Type : CLO
- Charge Code : 41 0253 0000 100
- Circuit watts : 253
- Lantern Type : AXIA 2.2 5187 -48 Nichia NVSL219CT 890mA NW
- Maintenance Factor : 0.83
- Lamp Type : 48 Nichia NVSL219CT
- Lamp Output : 16300 lumens
- Height : 10 metres
- Bracket Length : BOTTOM ENTRY MOUNTED
- Inclination : 5°
- No of Units : 17
- Driver Type : CLO
- Charge Code : 42 0126 0000 100
- Circuit watts : 126
- Lantern Type : NEOS 3 5068 64 LED 500mA NW FLAT GLASS EXTRA CLEAR
- Maintenance Factor : 0.80
- Lamp Type : 64 LEDs
- Lamp Output : 12580 lumens
- Height : 5 metres
- Bracket Length : N/A
- Inclination : 0°
- No. of Units : 8

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REV	COMMENT	DRAWN	CH	AP	DATE
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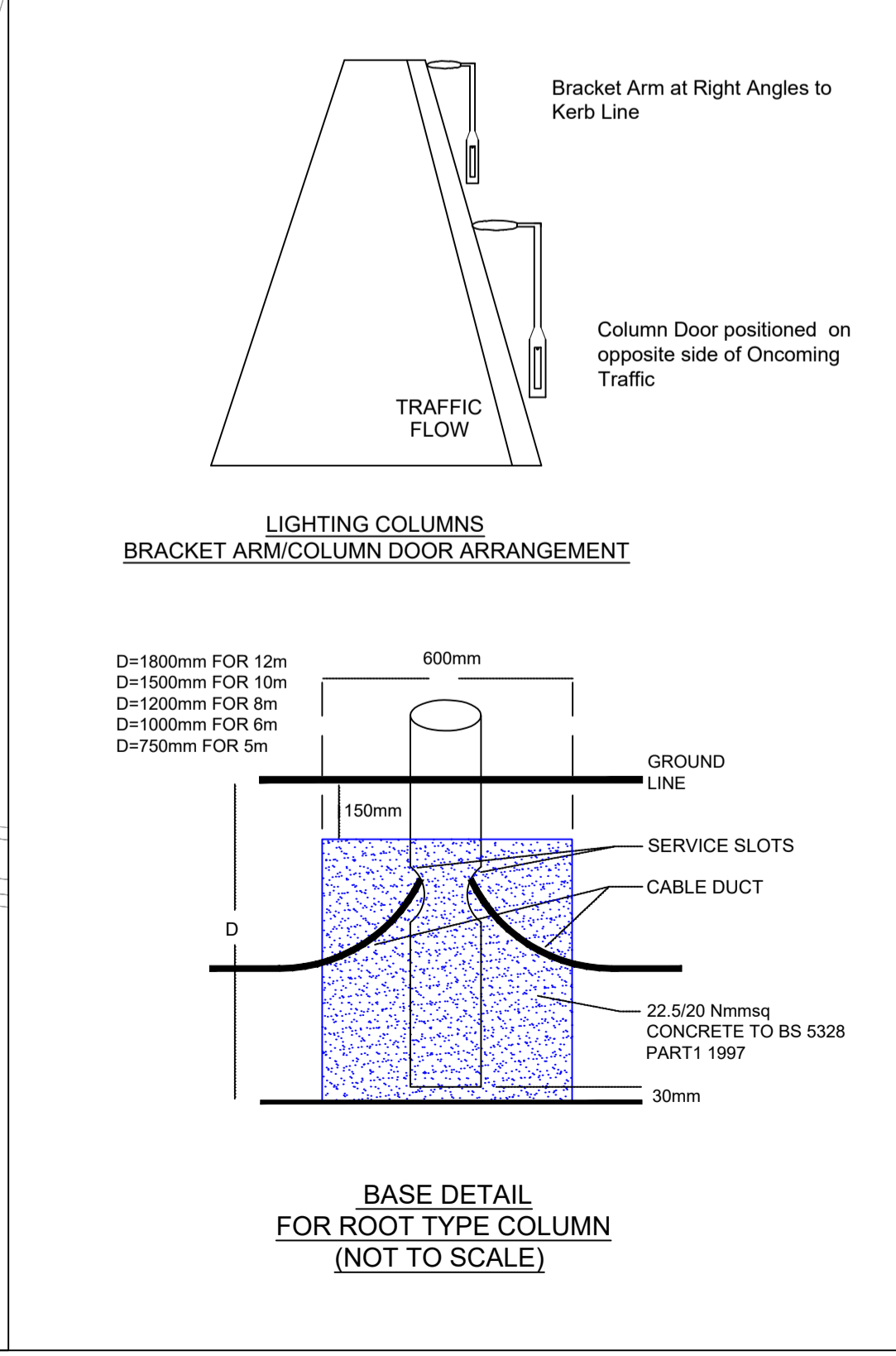
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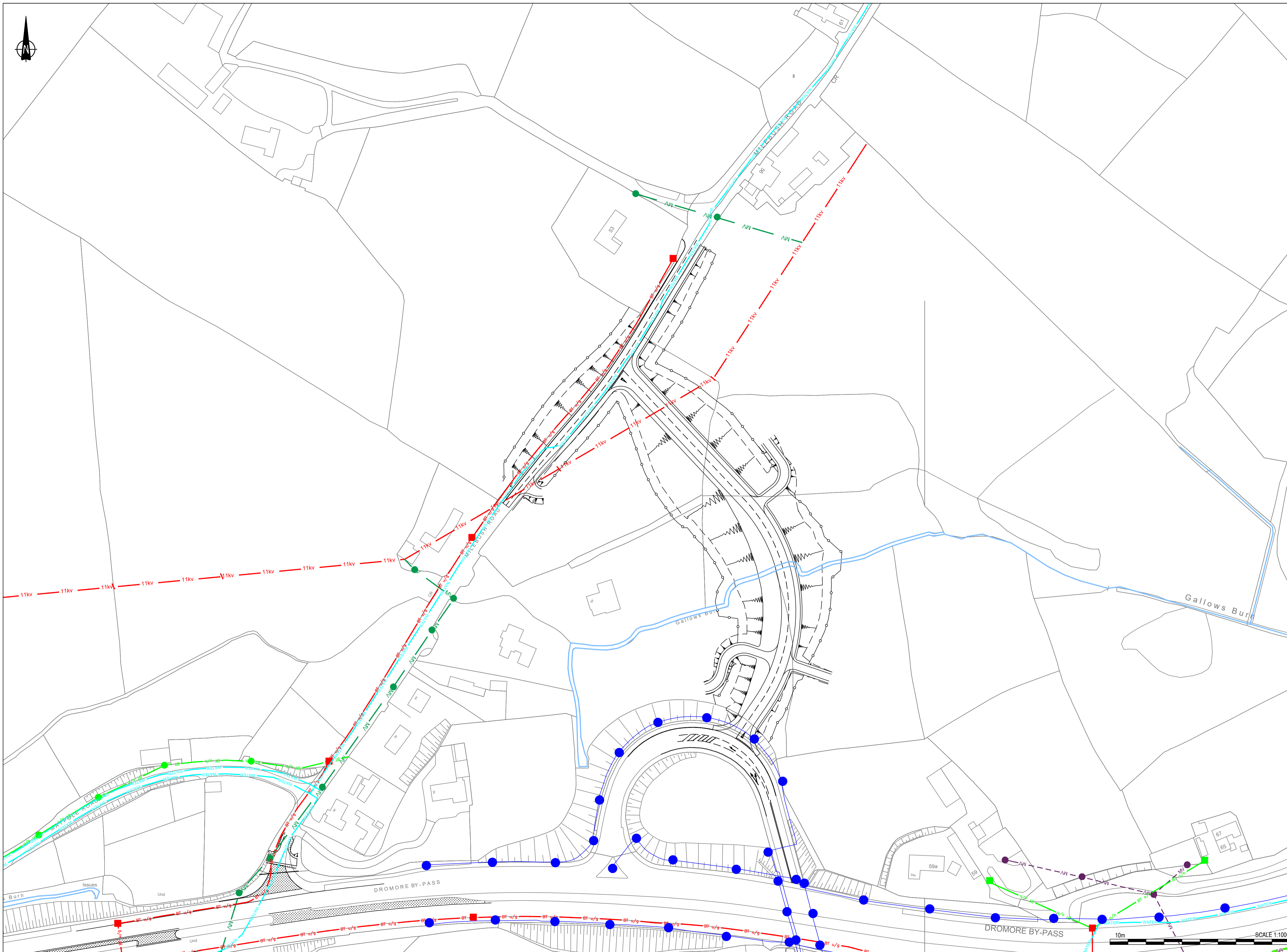
Project

A1 Junctions
Phase 2

**JUNCTION 1 - LISTULLYCURRAN
PROPOSED LIGHTING LAYOUT**

Drawing Status S2	Suitability FOR INFORMATION	Project Ref No. IBH0488
Scale NTS	Designed PN	Drawn By PN
Original Size A1	Date 28/03/18	Checked JB
	Date 28/03/18	Date 18/02/19
	Date 18/02/19	Date 18/02/19
Drawing Number	Rev P1	
TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-HLG-J1-DR-LE-1300-00001		





- NOTES**
- Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
 - Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
 - Issue of Drawings.
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 - DATUM: Irish Grid

Key

Existing Survey / OS Mapping	—
Proposed Layout	—

Existing BT Services

BT services (underground)	BT u/g
BT joint boxes	■
BT services (overhead)	BT o/h
BT poles	●
BT cabinet	⊠

Existing NIE Services

NIE services (275kV)	HV o/h
NIE services (110kV)	HV o/h
NIE services (33kV)	33kv
NIE services (11kV)	11kv
NIE services (MV)	MV
NIE services (services)	SER
NIE services (overhead)	—
NIE services (MV pole)	●
NIE services (substation)	■

Existing NIW services

NIW watermain	WATER
NIW combined sewer	SEWER
NIW foul sewer	SEWER
NIW storm sewer	SEWER
NIW abandoned sewer	SEWER
NIW private sewer	SEWER

Existing street lighting services

DfI Roads street lighting column	●
DfI Roads lit traffic bollard	■
DfI Roads mini pillar	▤
DBFO CO street lighting column	●
DBFO CO lit traffic bollard	■
DBFO CO mini pillar	▤

Existing Firmus services

Firmus services	GAS
Phoenix services	GAS

Existing watercourses

Designated watercourse	—
Rivers Agency Infrastructure	—

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**JUNCTION 2- MILEBUSH
EXISTING UTILITY SERVICES**

Drawing Number: 168014-RPSB-VUT-J2-DR-HE-100-00012

Rev: P1

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488
Scale 1:1000	Designed KC	Drawn By KC
Original Size A1	Checked PN	Authorised CD
Date 20/03/2018	Date 20/03/2018	Date 18/02/2019
Date 20/03/2018	Date 18/02/2019	Date 18/02/2019

Client

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

Project

**A1 Junctions
Phase 2**

Consultant

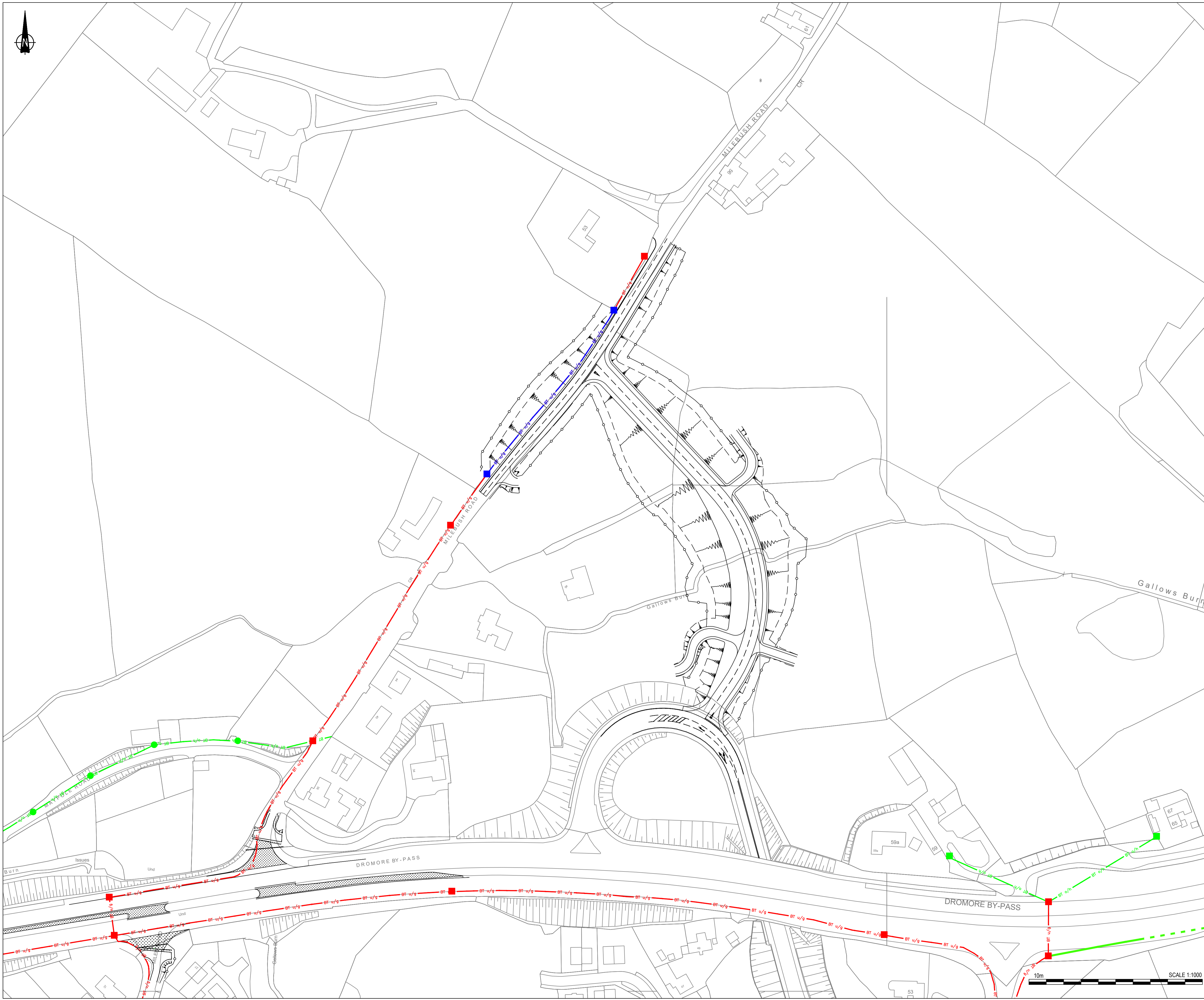
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This drawing may only be used for the purpose intended and only written dimensions should be used.

rev	amendments	drawn	date



NOTES

1. Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
2. Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
3. Issue of Drawings.
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4. DATUM: Irish Grid

5. Legend:

	Existing Survey / OS Mapping
	Proposed Layout
	Road Centerline

Existing BT Services

	BT services (underground)
	BT joint boxes
	BT services (overhead)
	BT poles
	BT cabinet

Proposed BT Services

	BT services (underground)
	BT joint boxes

IMPORTANT WARNING
Information concerning the location of British Telecommunications plc. telecommunications apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy, it should not be relied upon in the event of excavations or other work made near to British Telecommunications plc apparatus which may deviate from the marked route. Lead-ins to individual properties are not always shown.

If experiencing any problems to existing BT plant, dial "Freefone Dial Before You Dig" 0800 917 3993 (Option 1)

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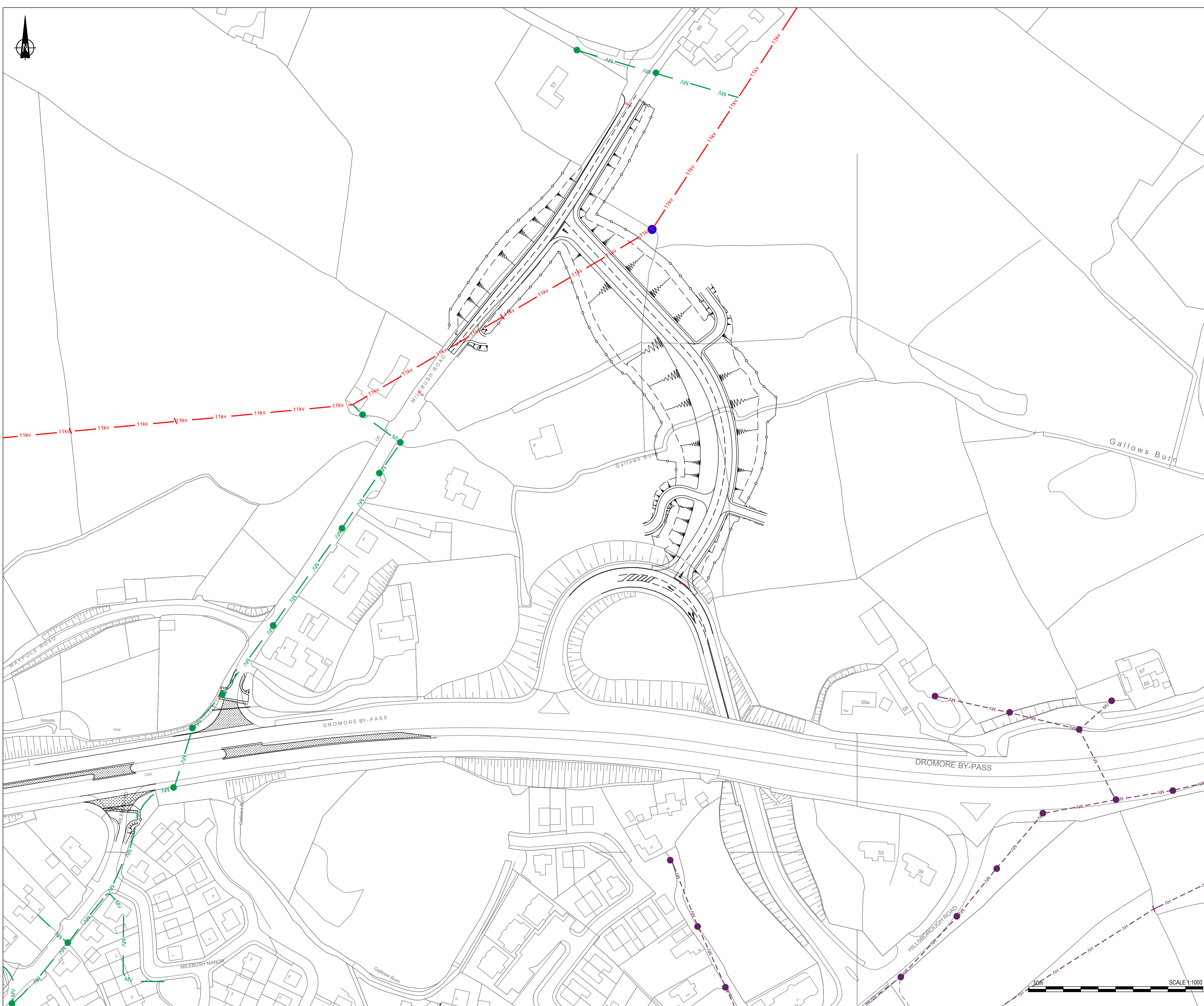
Client

Department for Infrastructure
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www.infrastructure-ni.gov.uk

Project

Title
**Proposed Service Diversions
British Telecommunications**

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488
Scale 1:1000	Designed JF	Drawn By JF
Original Size A1	Date 05/02/2019	Checked PN
	Date 05/02/2019	Authorised CD
	Date 18/02/2019	
	Date 18/02/2019	
Drawing Number	P1	
TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-J2-DR-HE-100-00013		



NOTES

1. Verifying Dimensions.
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2. Existing Services.
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4. DATUM: Irish Grid

5. Legend:
- Existing Survey / OS Mapping
 - Proposed Layout
 - Road Centerline

- NIE Existing Services**
- HV a/h Existing NIE services (275kV)
 - HV a/h Existing NIE services (110kV)
 - 33kv Existing NIE services (33kV)
 - 11kv Existing NIE services (11kV)
 - MV Existing NIE services (MV)
 - SER Existing NIE services (services)
 - Existing NIE services (overhead)
 - Existing NIE services (MV pole)
 - Existing NIE services (substation)
- NIE Diverted Services**
- Proposed NIE Pole

IMPORTANT WARNING

Caution ! Cable positions are approximate only
Please note that smaller service cables may not be shown. Always remember that it is the responsibility of the excavator/contractor to locate and avoid damage to N.I.E equipment. Failure to do so may result in those responsible being held liable.

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Project

A1 Junctions Phase 2

Title
Proposed Service Diversions Northern Ireland Electricity

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488
Scale 1:1000	Designed PA	Drawn By KC
Original Size A1	Date 26/03/2018	Date 26/03/2018
	Date 18/02/19	Date 18/02/19
Drawing Number	P1	
TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-J2-DR-HE-100-00010		



NOTES

1. Verifying Dimensions.
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 2. Existing Services.
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 4. DATUM: Irish Grid
 5. Legend:
 - Existing Survey / OS Mapping
 - Proposed Layout
 - NIW Existing services
 - Existing NIW services
 - Diverted NIW services
 - Proposed NIW services
 - Existing NIW services (abandoned)
 - Proposed NIW services (cap end)
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Client

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Project

A1 Junctions Phase 2

Title

Proposed Service Diversions Northern Ireland Water

Drawing Status	Suitability	Project Ref No.			
S2	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	KC	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/19	18/02/19	
Drawing Number				P1	
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-VUT-J2-DR-HE-100-00011					

NOTES

1. Verifying Dimensions.
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2. Existing Services.
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4. DATUM: Irish Grid

5. KEY

MATERIAL SPECIFICATION

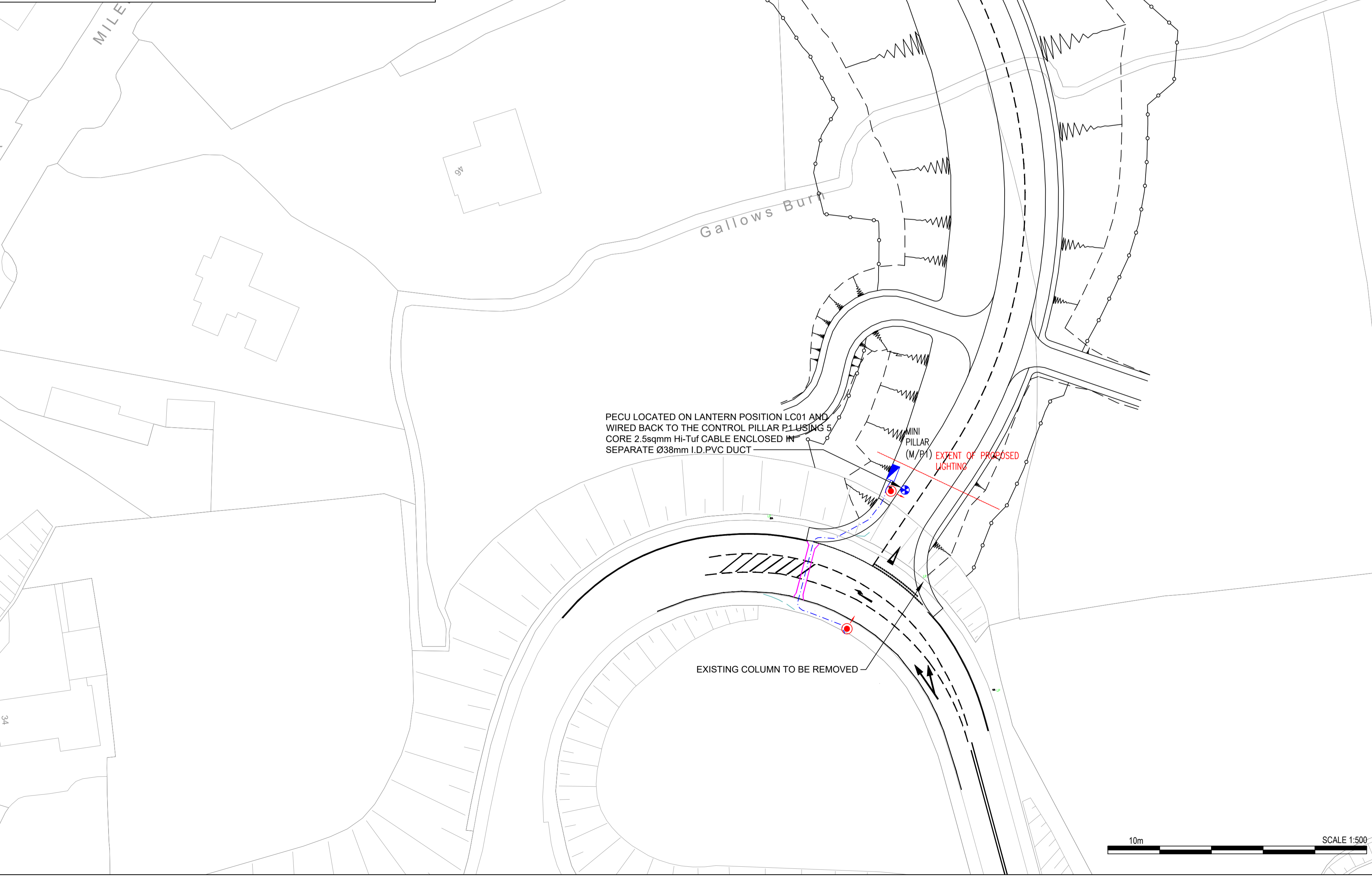
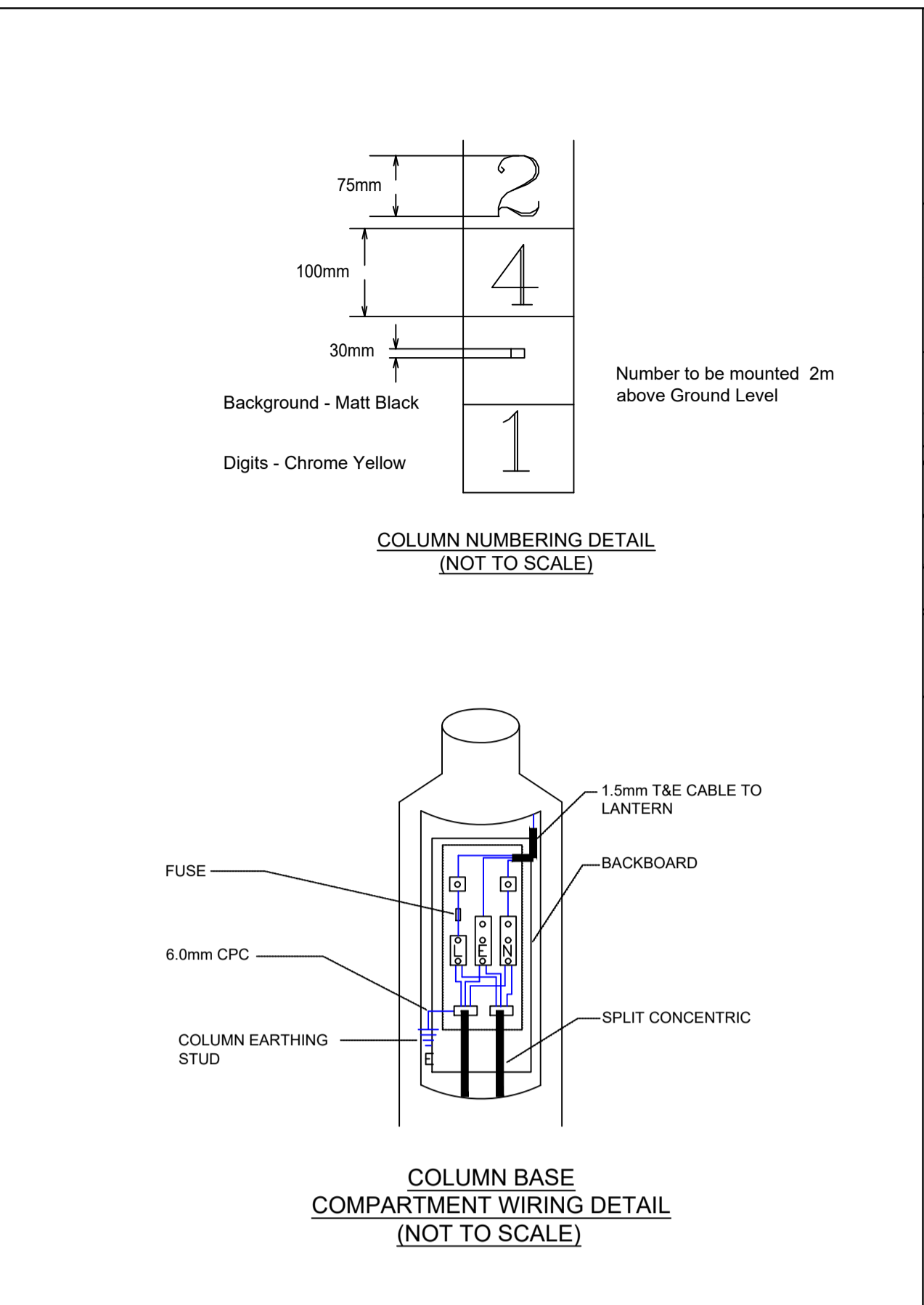
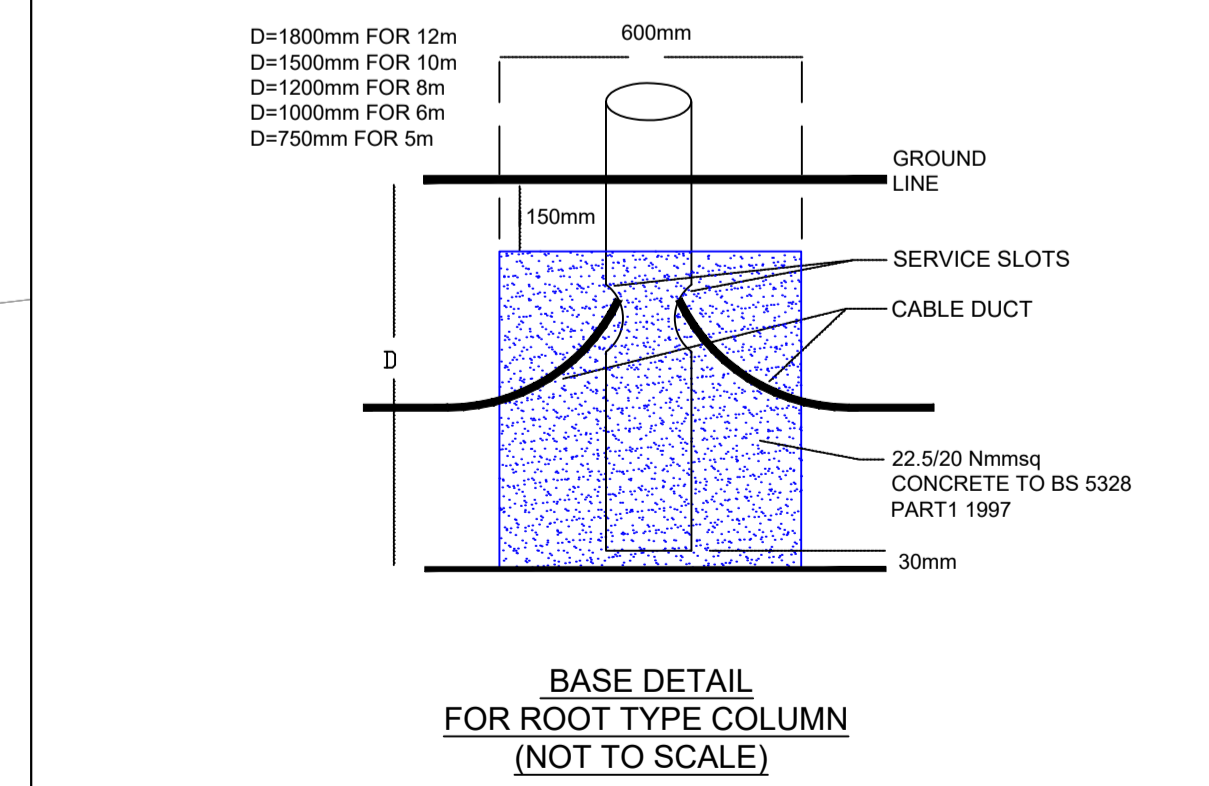
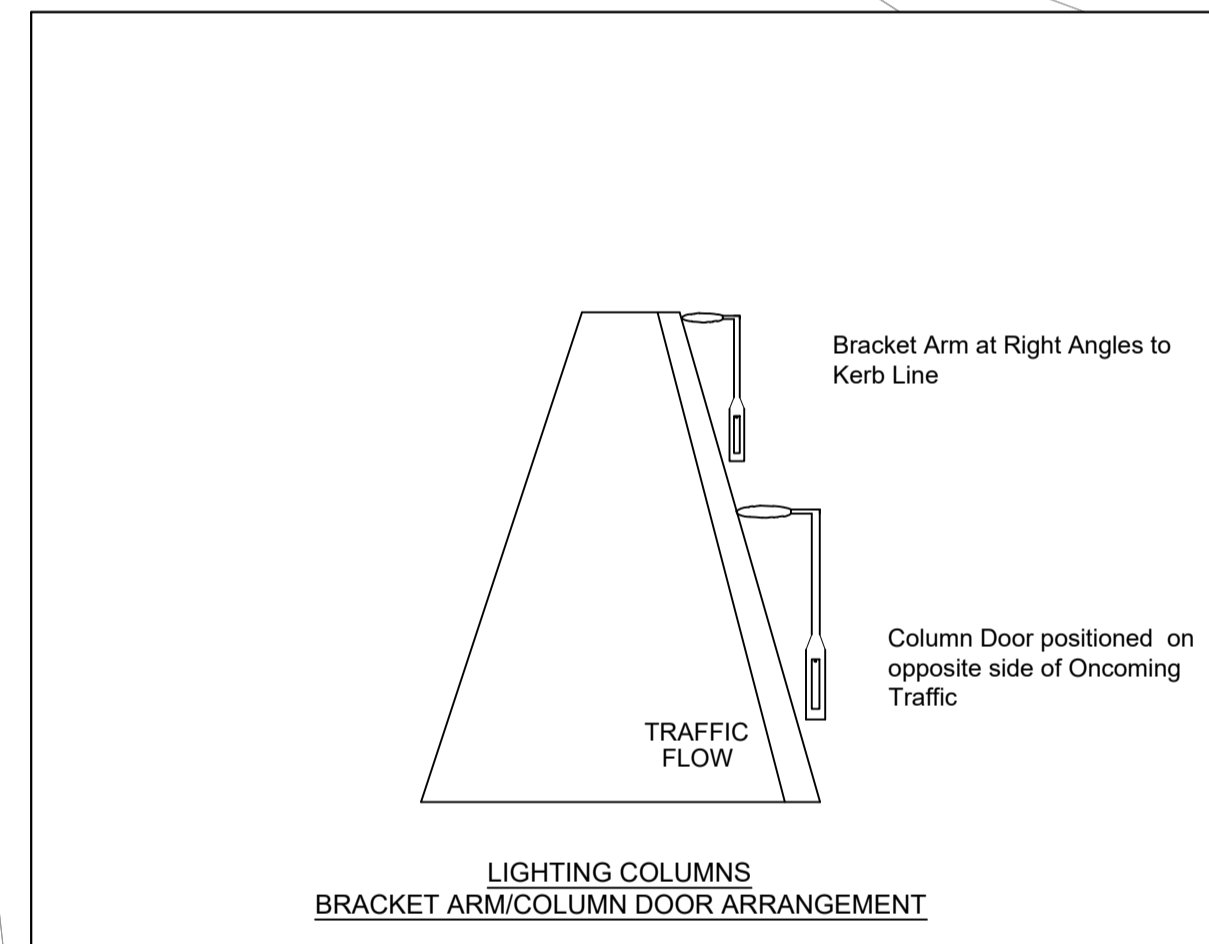
	HYLITE HL10 PHOTOELECTRIC CELL
	35.0SQMM 3 No. CORE XLPE/PVC/SWAPVC CABLE Laid in 038mm I.D. DUCT
	16.0SQMM 3 No. CORE XLPE/PVC/SWAPVC CABLE Laid in 038mm I.D. DUCT
	2.5SQMM 3 No. CORE XLPE/PVC/SWAPVC CABLE Laid in 038mm I.D. DUCT
	MAINS DISTRIBUTION PILLAR
	CONTROL AND DISTRIBUTION PILLAR
	0150mm DUCT FOR CABLE IN ROAD INSTALLATION

KEY:

LANTERN DETAILS

	Lantern Type : AMPERA MAXI 5118-128 Cree XP-G2 500mA NW
	Maintenance Factor : 0.84
	Lamp Type : 128 Cree XP-G2
	Lamp Output : 23510 lumens
	Height : 10 metres
	Bracket Length : BOTTOM ENTRY MOUNTED
	Inclination : 5°
	No. of Units : 21
	Driver Type : CLO
	Charge Code : 4101910001100
	Circuit watts : 191
	Lantern Type : AXIA 2.2 5187 - 48 Nichia NVSL219CT 1000mA NW
	Maintenance Factor : 0.83
	Lamp Type : 48 Nichia NVSL219CT
	Lamp Output : 20070 lumens
	Height : 10 metres
	Bracket Length : BOTTOM ENTRY MOUNTED
	Inclination : 5°
	No. of Units : 15
	Driver Type : CLO
	Charge Code : 42 0142 0000 100
	Circuit watts : 142
	Lantern Type : NEOS 3 5068 64 LED 500mA NW FLAT GLASS EXTRA CLEAR
	Maintenance Factor : 0.80
	Lamp Type : 64 LEDs
	Lamp Output : 12580 lumens
	Height : 5 metres
	Bracket Length : N/A
	Inclination : 0°
	No. of Units : 8
	Driver Type : CLO
	Charge Code : 42 0142 0000 100
	Circuit watts : 142

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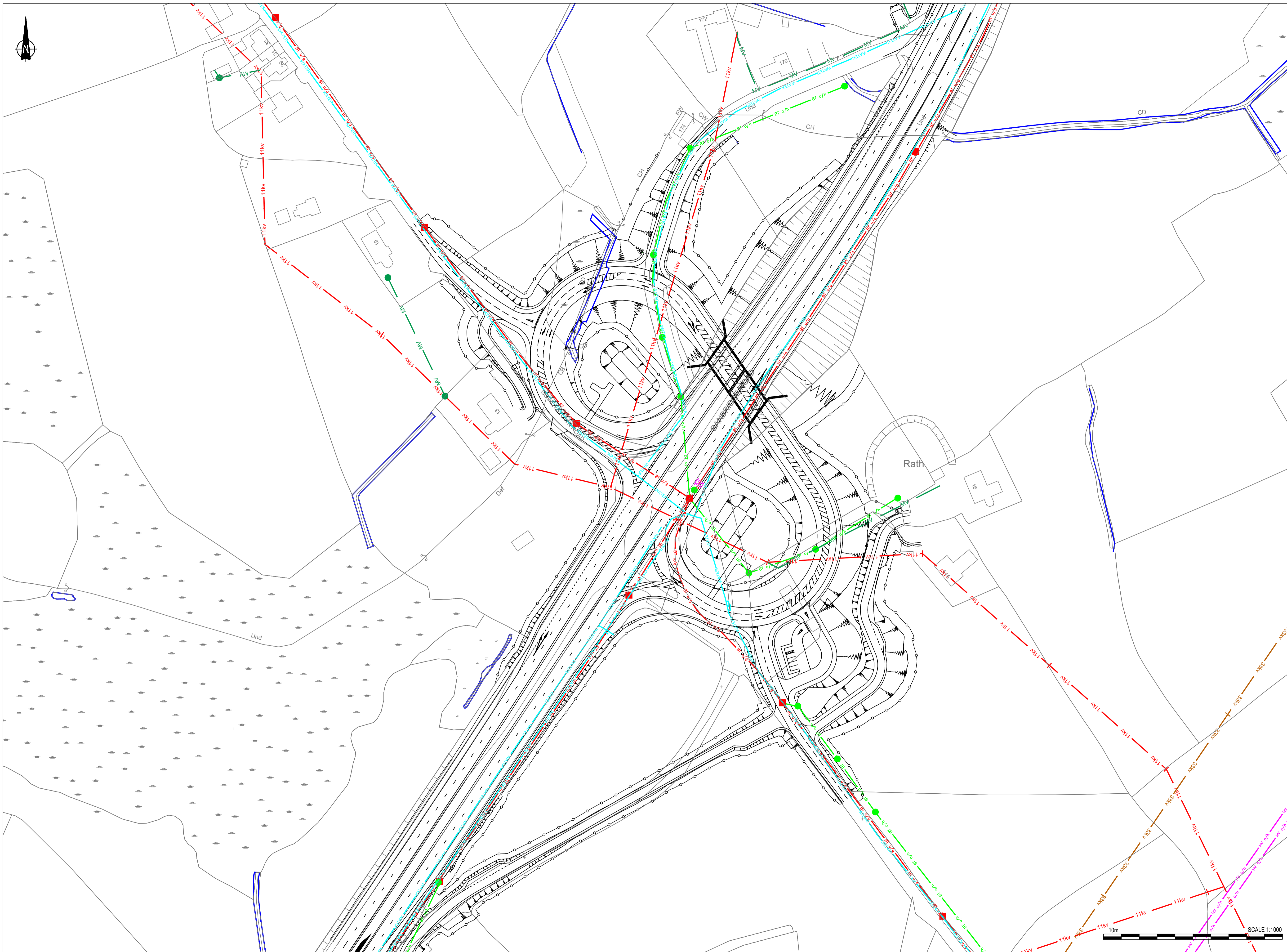
Project

A1 Junctions Phase 2

Title

JUNCTION 2 - MULEBUSH LINK PROPOSED LIGHTING LAYOUT

Drawing Status	Suitability	Project Ref No.		
S2	FOR INFORMATION	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:500	PA	PA	PN	CD
Original Size	Date	Date	Date	Date
A1	14/08/18	14/08/18	18/02/19	18/02/19
Drawing Number	Rev P1			
TNI Ref Originator Volume Location Type Discipline Classification Number				
168014-RPSB-HLG-J2-DR-LE-1300-00001				



NOTES

- Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
- 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 Sweco will not accept any responsibility for any errors arising from the use of these files, either by human error or 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.
- DATUM: Irish Grid

Key

Existing Survey / OS Mapping

Proposed Layout

Existing BT Services

BT services (underground)

BT joint boxes

BT services (overhead)

BT poles

BT cabinet

Existing NIE Services

NIE services (275kV)

NIE services (110kV)

NIE services (33kV)

NIE services (11kV)

NIE services (MV)

NIE services (services)

NIE services (overhead)

NIE services (MV pole)

NIE services (substation)

Existing NIW services

NIW watermain

NIW combined sewer

NIW foul sewer

NIW storm sewer

NIW abandoned sewer

NIW private sewer

Existing street lighting services

DfI Roads street lighting column

DfI Roads lit traffic bollard

DfI Roads mini pillar

DBFO CO street lighting column

DBFO CO lit traffic bollard

DBFO CO mini pillar

Existing Firmus services

Firmus services

Phoenix services

Existing watercourses

Designated watercourse

Rivers Agency Infrastructure

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**JUNCTION 3 - GOWDYSTOWN
EXISTING UTILITY SERVICES**

Drawing Number: 168014-RPSB-VUT-J3-DR-HE-100-00001

Rev: P1

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488			
Scale 1:1000	Designed KC	Drawn By KC	Checked PN	Authorised CD	
Original Size A1	Date 20/03/2018	Date 20/03/2018	Date 18/02/2019	Date 18/02/2019	

Client

Project

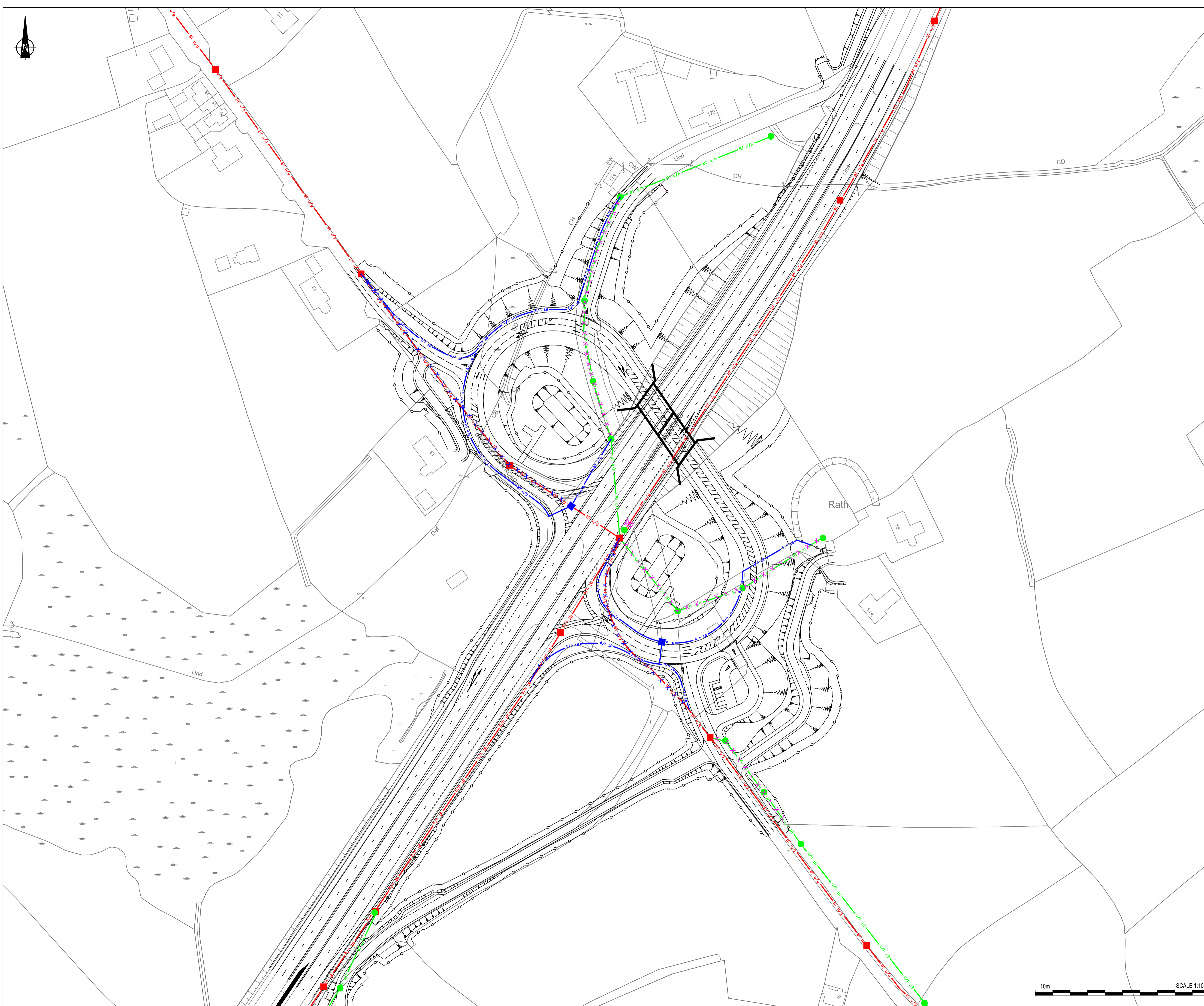
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W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

This drawing may only be used for the purpose intended and only written dimensions should be used.

rev	amendments	drawn	date



NOTES

1. Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
2. Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
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4. DATUM: Irish Grid

5. Legend:
- Existing Survey / OS Mapping
 - Proposed Layout
- BT Existing Services**
- Existing BT services (underground)
 - Existing BT joint boxes
 - Existing BT services (overhead)
 - Existing BT poles
 - Existing BT cabinet
- Diverted BT Services**
- Proposed BT services (overhead)
 - Proposed BT services (underground)
 - Existing BT services abandoned (overhead)
 - Existing BT services abandoned (underground)
 - Proposed BT joint box

IMPORTANT WARNING

Information concerning the location of British Telecommunications plc. telecommunications apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy, it should not be relied upon in the event of excavations or other work made near to British Telecommunications plc apparatus which may deviate from the marked route. Lead-ins to individual properties are not always shown.

If experiencing any problems to existing BT plant, dial "Freephone Dial Before You Dig" 0800 917 3993 (Option 1)

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DRAFT

REV	COMMENT	DRAWN	CH	AP	DATE

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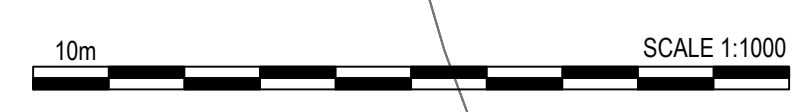
Project

A1 Junctions Phase 2

Title

Proposed Service Diversions
 British Telecommunications

Drawing Status	Suitability	Project Ref No.			
S2	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	KC	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019	
Drawing Number				P1	
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-VUT-J3-DR-HE-100-00002					





NOTES

- Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
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4. DATUM: Irish Grid

5. Legend:

	Existing Survey / OS Mapping
	Proposed Layout

NIE Existing Services

	Existing NIE services (275kV)
	Existing NIE services (110kV)
	Existing NIE services (33kV)
	Existing NIE services (11kV)
	Existing NIE services (MV)
	Existing NIE services (services)
	Existing NIE services (overhead)
	Existing NIE services (MV pole)
	Existing NIE services (substation)

NIE Diverted Services

	Proposed NIE services (MV)
	Proposed NIE services (services)
	NIE Existing services (abandoned)
	Proposed NIE services (intermediate / remote earth)
	Proposed ducting

IMPORTANT WARNING

Caution! Cable positions are approximate only. Please note that smaller service cables may not be shown. Always remember that it is the responsibility of the excavator/contractor to locate and avoid damage to N.I.E. equipment. Failure to do so may result in those responsible being held liable.

If any damage whatsoever occurs to NIE equipment all work in the vicinity must stop immediately and the damage must be reported at once to NIE on the following number 03457 643 643

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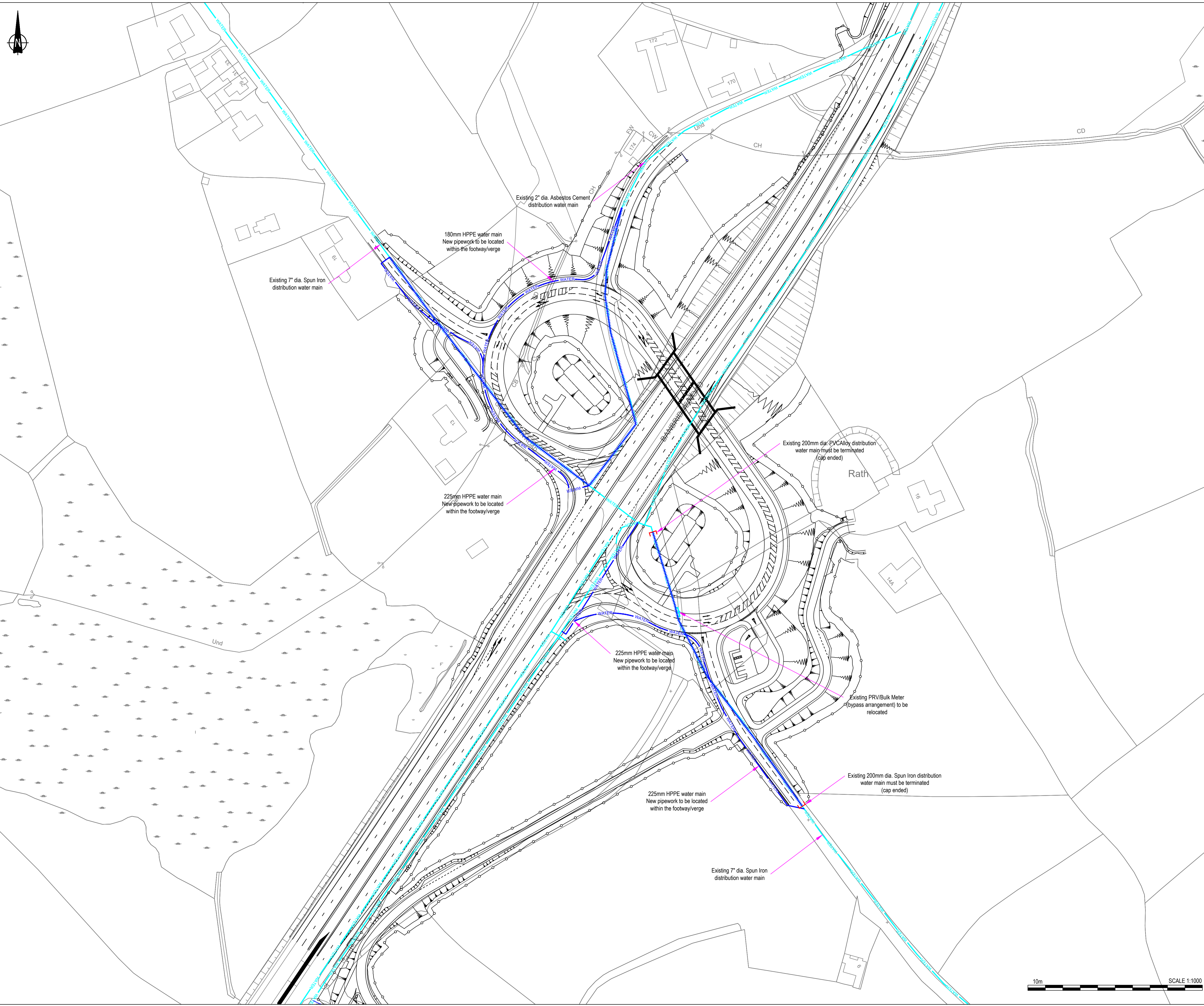
Project

A1 Junctions Phase 2

Title

Proposed Service Diversions Northern Ireland Electricity

Drawing Status	Suitability	Project Ref No.			
S2	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	KC	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019	
Drawing Number					P1
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-VUT-J3-DR-HE-100-00003					



- NOTES**
- Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
 - Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
 - Issue of Drawings.
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 - DATUM: Irish Grid
 - Legend:
 - Existing Survey / OS Mapping
 - Proposed Layout
 - NIW Existing services
 - Existing NIW services
 - Existing PRV/Bulk Meter (bypass arrangement)
 - Diverted NIW services
 - Proposed NIW services
 - Existing NIW services (abandoned)
 - Proposed NIW services (cap end)
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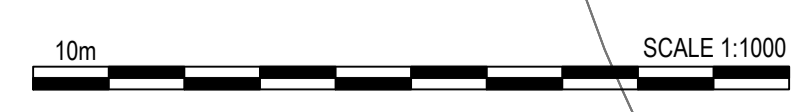
Project

A1 Junctions Phase 2

Title

Proposed Service Diversions Northern Ireland Water

Drawing Status	Suitability	Project Ref No.			
S2	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	KC	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019	
Drawing Number					P1
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-VUT-J3-DR-HE-100-00004					



NOTES

1. Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
2. Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
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4. DATUM: Irish Grid

5. KEY
- MATERIAL SPECIFICATION**
- HYLITE HL10 PHOTOELECTRIC CELL
 - 35.0SQMM 3 No. CORE XLPE/PVC/SWAPVC CABLE LAID IN Ø38mm I.D. DUCT
 - 16.0SQMM 3 No. CORE XLPE/PVC/SWAPVC CABLE LAID IN Ø38mm I.D. DUCT
 - 2.5SQMM 3 No. CORE XLPE/PVC/SWAPVC CABLE LAID IN Ø38mm I.D. DUCT
 - MAINS DISTRIBUTION PILLAR
 - CONTROL AND DISTRIBUTION PILLAR
 - Ø150mm DUCT (FOR CABLE IN ROAD INSTALLATION)

- KEY:**
- LANTERN DETAILS**
- +** Lantern Type : AMPERA MAXI 5118-128 Cree XP-G2 500mA NW
Maintenance Factor : 0.84
Lamp Type : 128 Cree XP-G2
Lamp Output : 23510 lumens
Height : 10 metres
Bracket Length : BOTTOM ENTRY MOUNTED
Inclination : 5°
No. of Units : 21
Driver Type : CLO
Charge Code : 4101910001100
Circuit watts : 191
 - +** Lantern Type : AXIA 2.2 5187 - 48 Nichia NVSL219CT 1000mA NW
Maintenance Factor : 0.83
Lamp Type : 48 Nichia NVSL219CT
Lamp Output : 20070 lumens
Height : 10 metres
Bracket Length : BOTTOM ENTRY MOUNTED
Inclination : 5°
No. of Units : 15
Driver Type : CLO
Charge Code : 42 0142 0000 100
Circuit watts : 142
 - +** Lantern Type : NIOS 3 5068 64 LED 500mA NW FLAT GLASS EXTRA CLEAR
Maintenance Factor : 0.80
Lamp Type : 64 LEDs
Lamp Output : 12580 lumens
Height : 5 metres
Bracket Length : N/A
Inclination : 0°
No. of Units : 8
Driver Type : CLO
Charge Code : 42 0142 0000 100
Circuit watts : 142

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Client: Department for Infrastructure
Infrastructure
An Roinn **Bonneagair**
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Project: **A1 Junctions Phase 2**

Title: **JUNCTION 3 - GOWDYSTOWN PROPOSED LIGHTING LAYOUT**

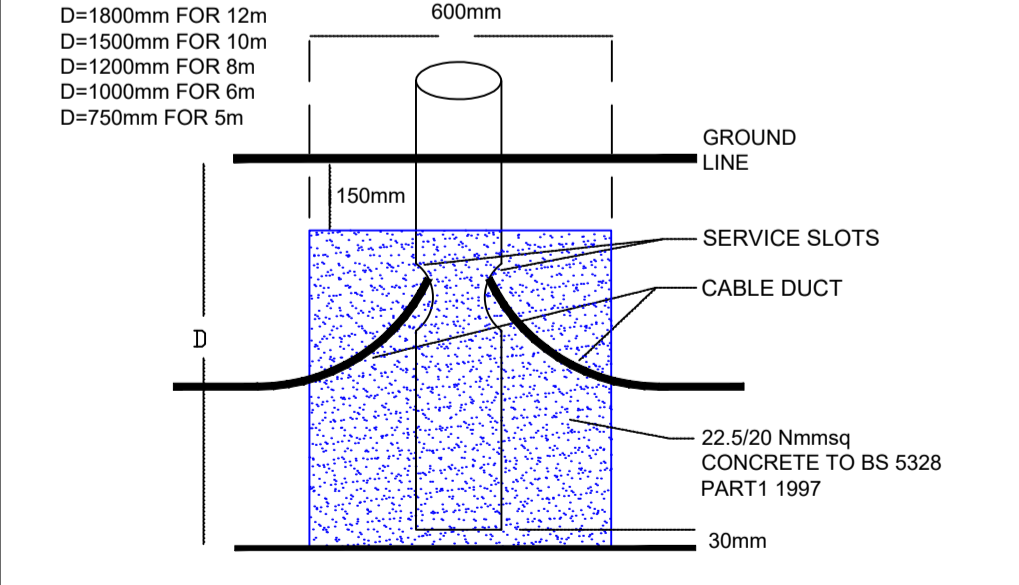
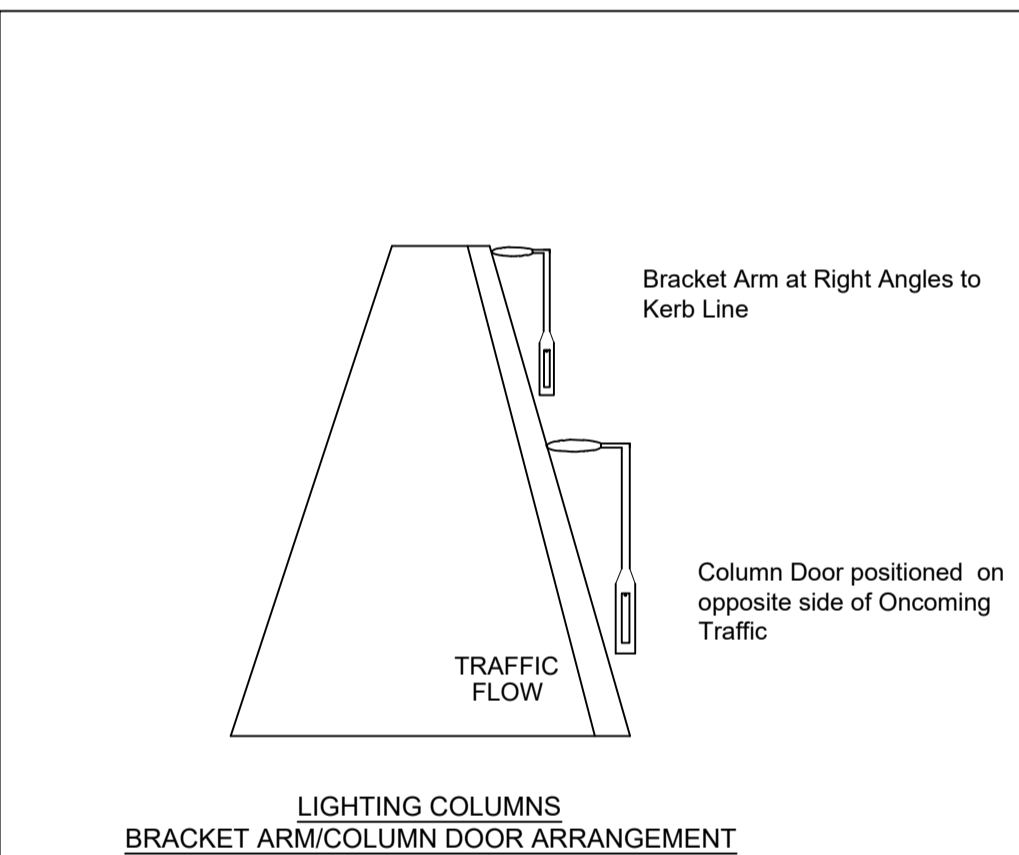
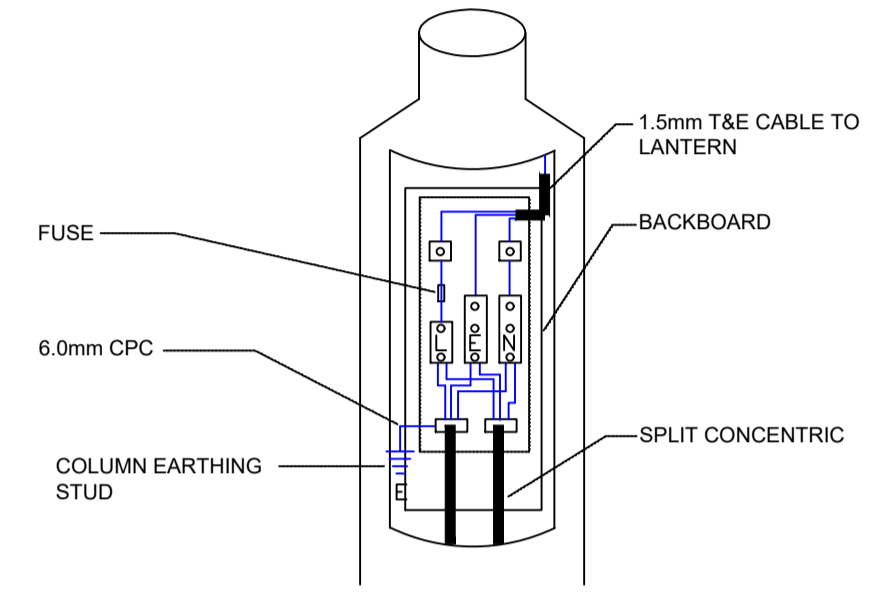
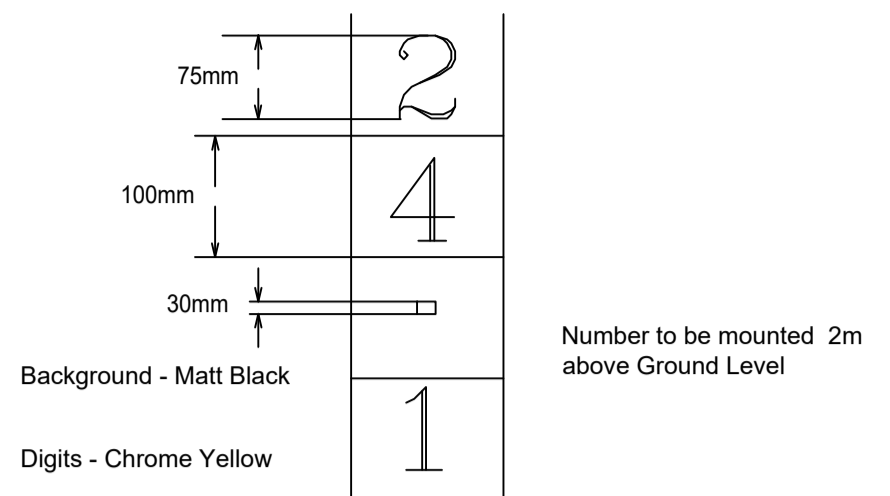
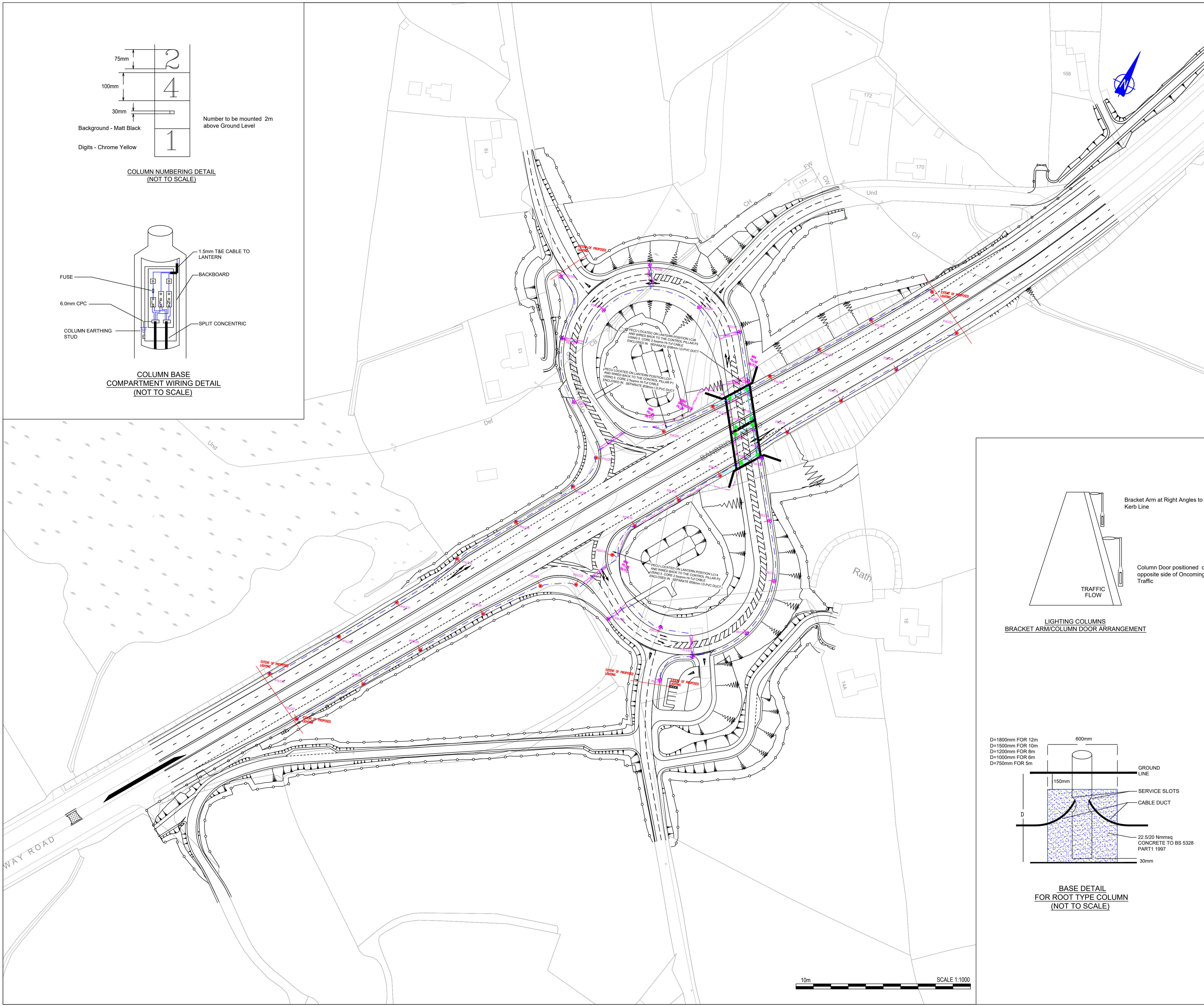
Drawing Status: S2	Suitability: For Information	Project Ref No.: IBH0488
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Scale: 1:1000	Designed: GMcQ	Drawn By: GMcQ	Checked: JB	Authorised: CD
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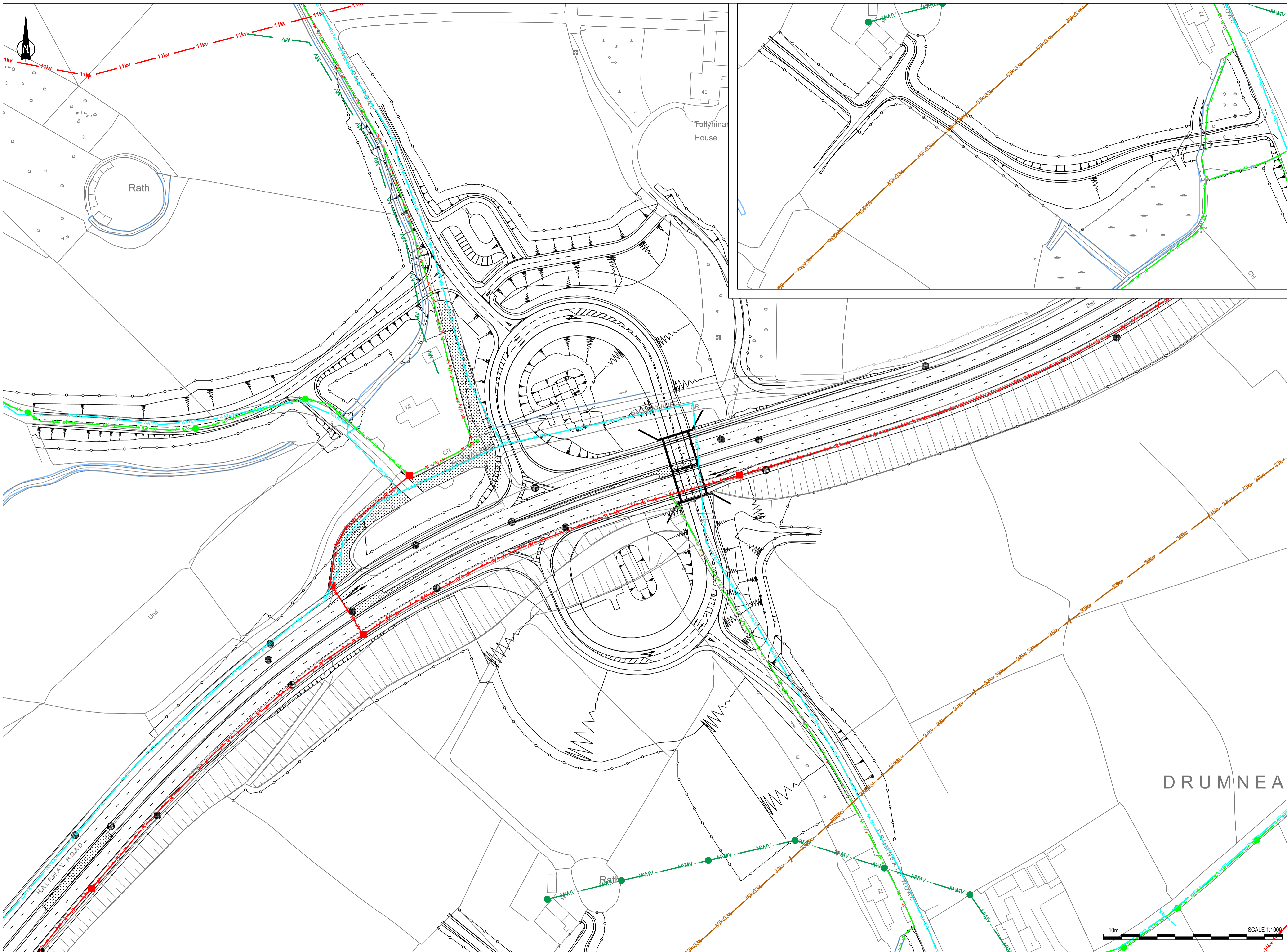
Original Size: A1	Date: 27/07/2017	Date: 27/07/2017	Date: 18/02/2019	Date: 18/02/2019
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Drawing Number: _____ Rev: **P1**

TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number
168014-RPSB-HLG-J3-DR-LE-1300-00001



10m SCALE 1:1000



- NOTES**
- Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
 - Existing Services.
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 - DATUM: Irish Grid

Key

Existing Survey / OS Mapping

Proposed Layout

Existing BT Services

BT services (underground)

BT joint boxes

BT services (overhead)

BT poles

BT cabinet

Existing NIE Services

NIE services (275kV)

NIE services (110kV)

NIE services (33kV)

NIE services (11kV)

NIE services (MV)

NIE services (services)

NIE services (overhead)

NIE services (MV pole)

NIE services (substation)

Existing NIW services

NIW watermain

NIW combined sewer

NIW foul sewer

NIW storm sewer

NIW abandoned sewer

NIW private sewer

Existing street lighting services

DfI Roads street lighting column

DfI Roads lit traffic bollard

DfI Roads mini pillar

DBFO CO street lighting column

DBFO CO lit traffic bollard

DBFO CO mini pillar

Existing Firmus services

Firmus services

Phoenix services

Existing watercourses

Designated watercourse

Rivers Agency Infrastructure

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**JUNCTION 4 - SKELTONS
EXISTING UTILITY SERVICES**

Drawing Number: 168014-RPSB-VUT-J4-DR-HE-100-00013

Rev: P1

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488			
Scale 1:1000	Designed KC	Drawn By KC	Checked PN	Authorised CD	
Original Size A1	Date 20/03/2018	Date 20/03/2018	Date 18/02/2019	Date 18/02/2019	

Client

Department for Infrastructure
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Project

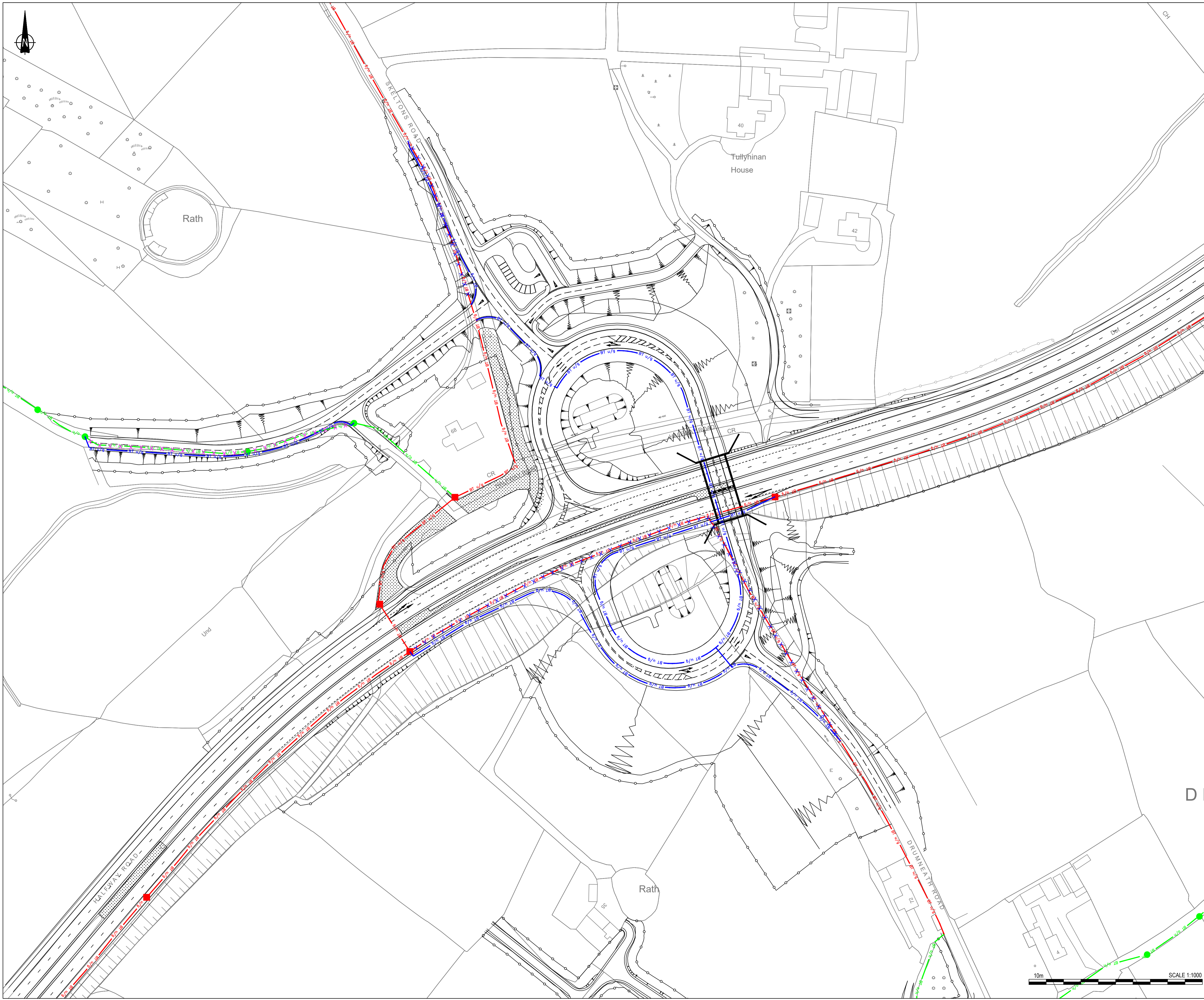
Consultant

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This drawing may only be used for the purpose intended and only written dimensions should be used.

rev	amendments	drawn	date



NOTES

1. Verifying Dimensions.
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4. DATUM: Irish Grid

5. Legend:
- Existing Survey / OS Mapping
 - Proposed Layout
- BT Existing Services**
- Existing BT services (underground)
 - Existing BT joint boxes
 - Existing BT services (overhead)
 - Existing BT poles
 - Existing BT cabinet
- Diverted BT Services**
- Proposed BT services (overhead)
 - Proposed BT services (underground)
 - Existing BT services abandoned (overhead)
 - Existing BT services abandoned (underground)

IMPORTANT WARNING

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REV	COMMENT	DRAWN	CH	AP	DATE

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Client

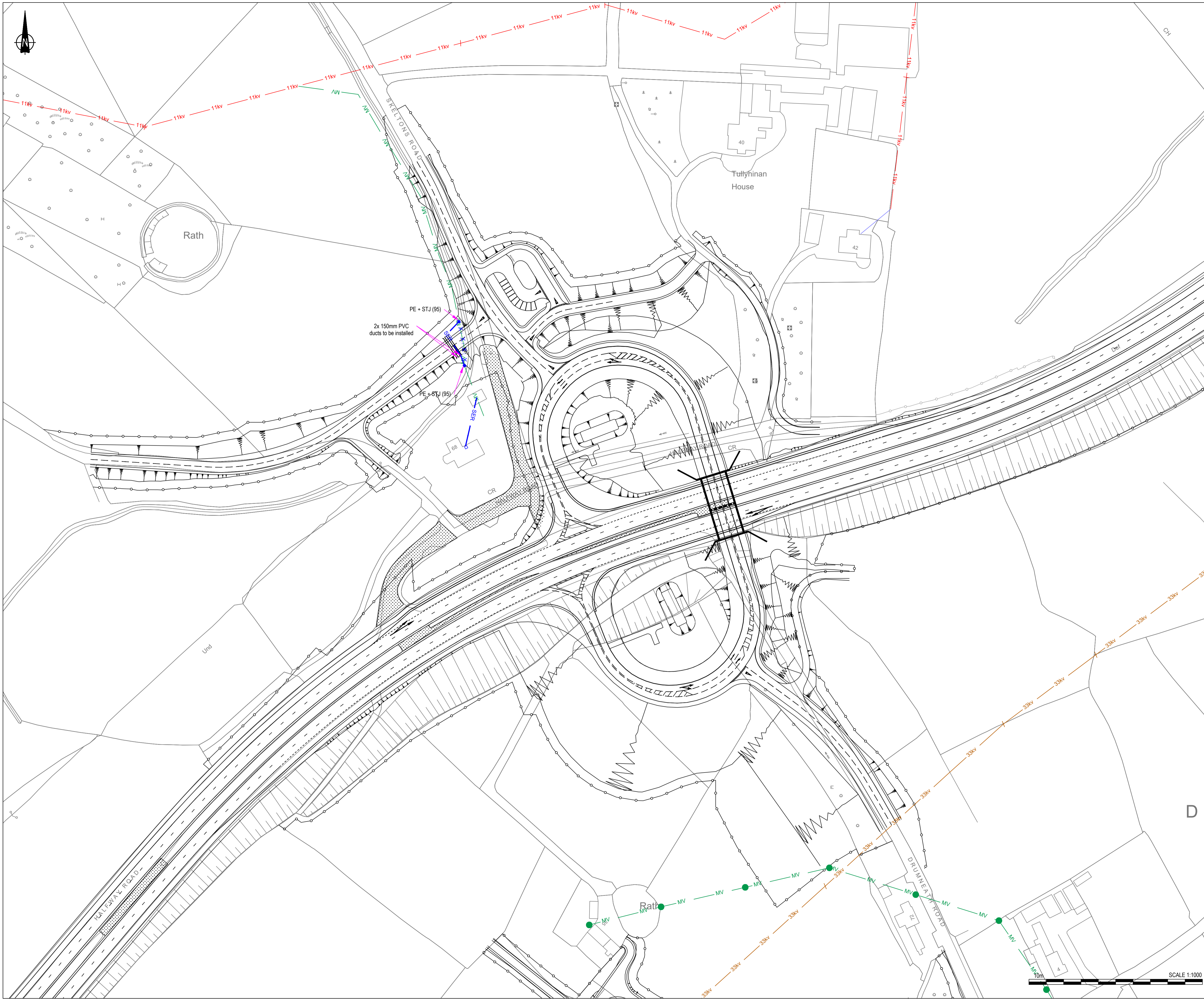
Department for Infrastructure
An Roinn Bonneagair
www.infrastructure.ie.gov.uk

Project

A1 Junctions
Phase 2

Title
**Proposed Service Diversions
British Telecommunications**

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488
Scale 1:1000	Designed KC	Drawn By KC
Original Size A1	Date 26/03/2018	Date 26/03/2018
	Date 18/02/2019	Date 18/02/2019
Drawing Number	P1	
TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-J4-DR-HE-100-00010		



NOTES

1. Verifying Dimensions.
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2. Existing Services.
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4. DATUM: Irish Grid

5. Legend:
- Existing Survey / OS Mapping
 - Proposed Layout
- NIE Existing Services**
- HV a/h Existing NIE services (275kV)
 - HV a/h Existing NIE services (110kV)
 - 33kv Existing NIE services (33kV)
 - 11kv Existing NIE services (11kV)
 - MV Existing NIE services (MV)
 - SER Existing NIE services (services)
 - 33kv 11kv Existing NIE services (overhead)
 - Existing NIE services (MV pole)
 - Existing NIE services (substation)
- NIE Diverted Services**
- MV Proposed NIE services (MV)
 - SER Proposed NIE services (services)
 - XMX X X X X NIE Existing services (abandoned)
 - Proposed NIE services (intermediate / remote earth)
 - Proposed ducting

IMPORTANT WARNING

Caution! Cable positions are approximate only. Please note that smaller service cables may not be shown. Always remember that it is the responsibility of the excavator/contractor to locate and avoid damage to N.I.E. equipment. Failure to do so may result in those responsible being held liable.

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Client

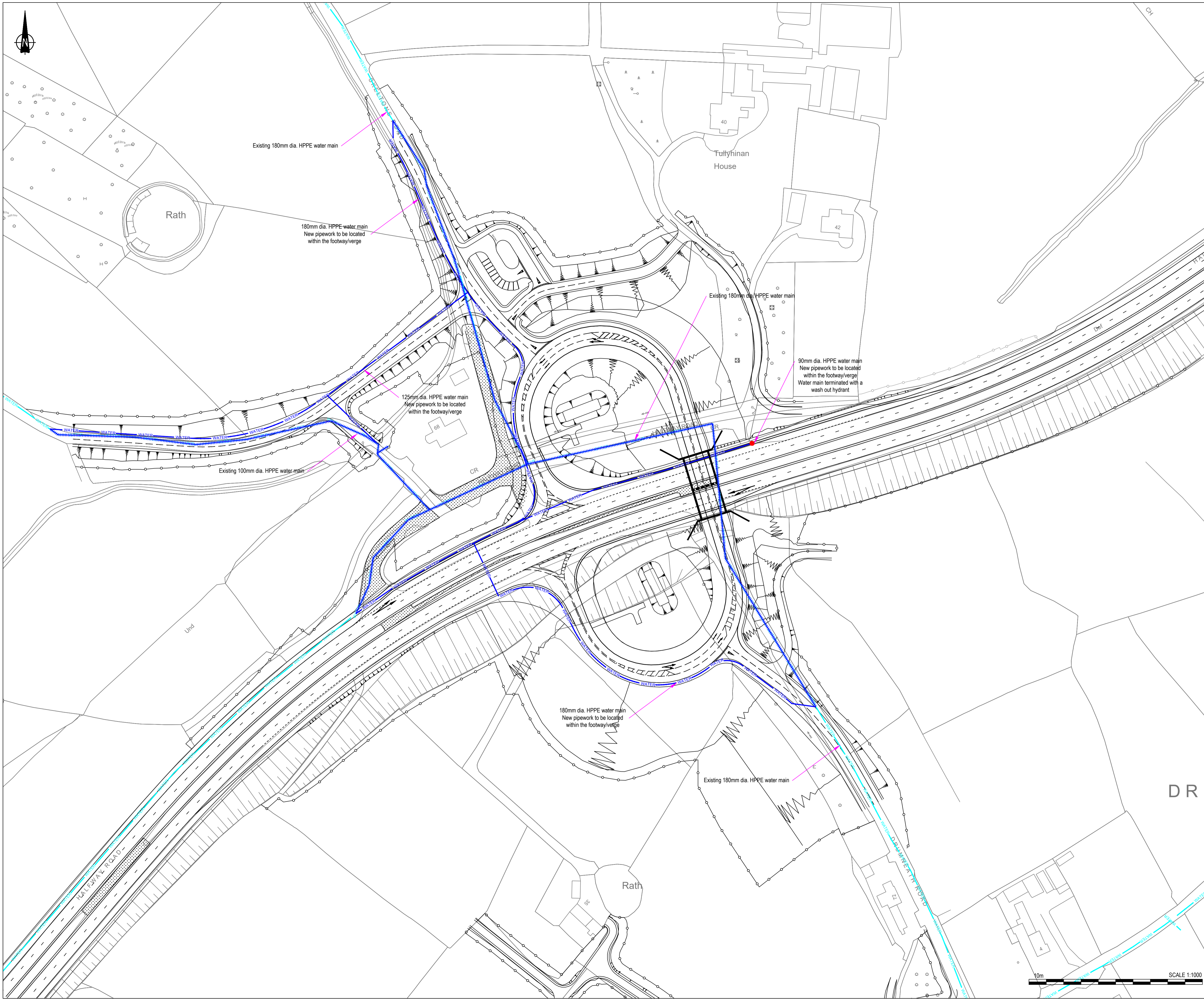
Department for Infrastructure
An Roinn Bonneagair
www.infrastructure-ni.gov.uk

Project

A1 Junctions
Phase 2

Title
**Proposed Service Diversions
Northern Ireland Electricity**

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488		
Scale 1:1000	Designed KC	Drawn By KC	Checked PN	Authorised CD
Original Size A1	Date 26/03/2018	Date 26/03/2018	Date 18/02/2019	Date 18/02/2019
Drawing Number	P1			
TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-J4-DR-HE-100-00011				



- NOTES**
1. Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
 2. Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
 3. Issue of Drawings.
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4. DATUM: Irish Grid

5. Legend:

	Existing Survey / OS Mapping
	Proposed Layout
NIW Existing services	
	Existing NIW services
Diverted NIW services	
	Proposed NIW services
	Existing NIW services (abandoned)
	Proposed NIW fire hydrant

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W www.rpsgroup.com/ireland
E ireland@rpsgroup.com

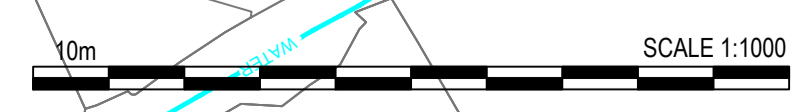
Client

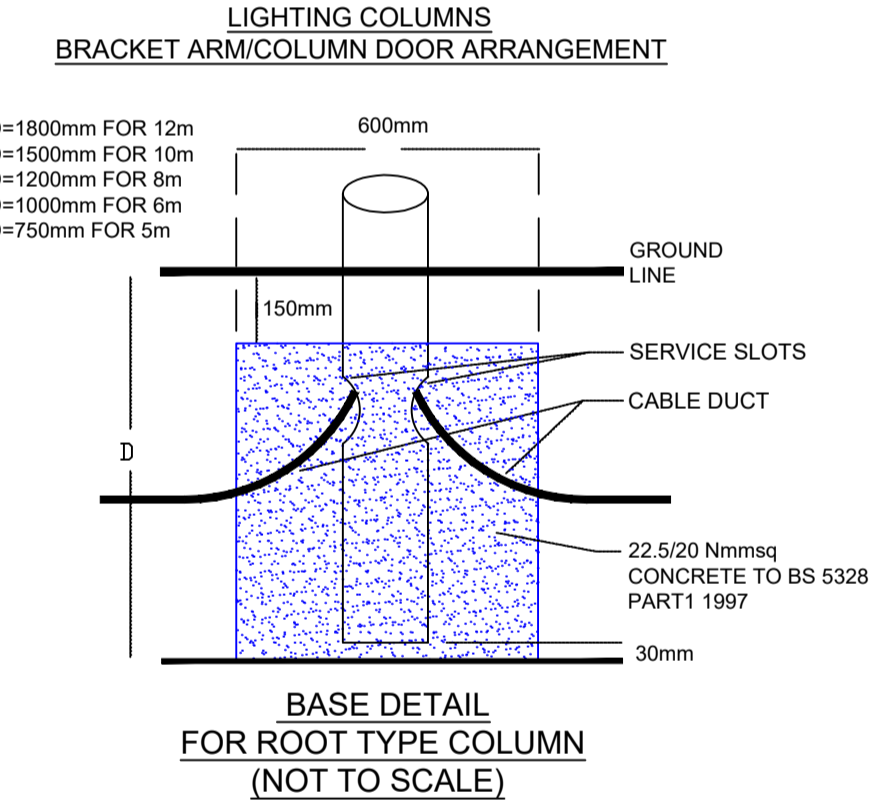
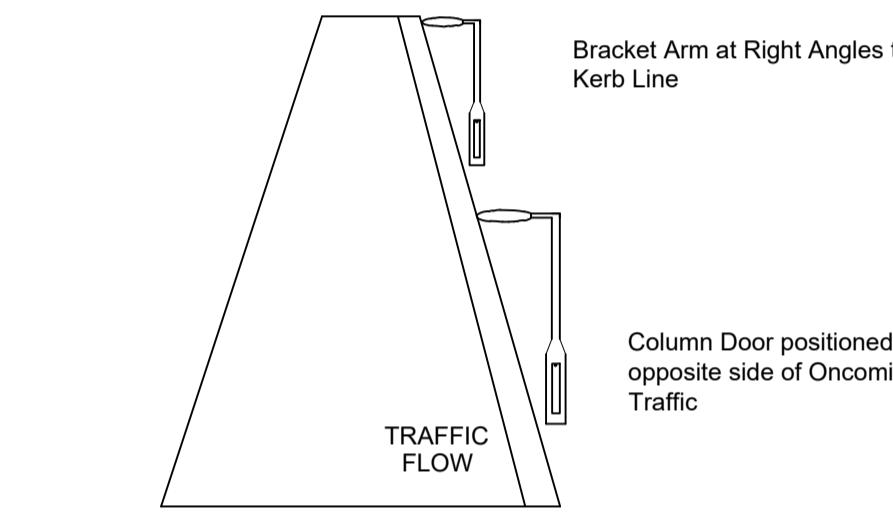
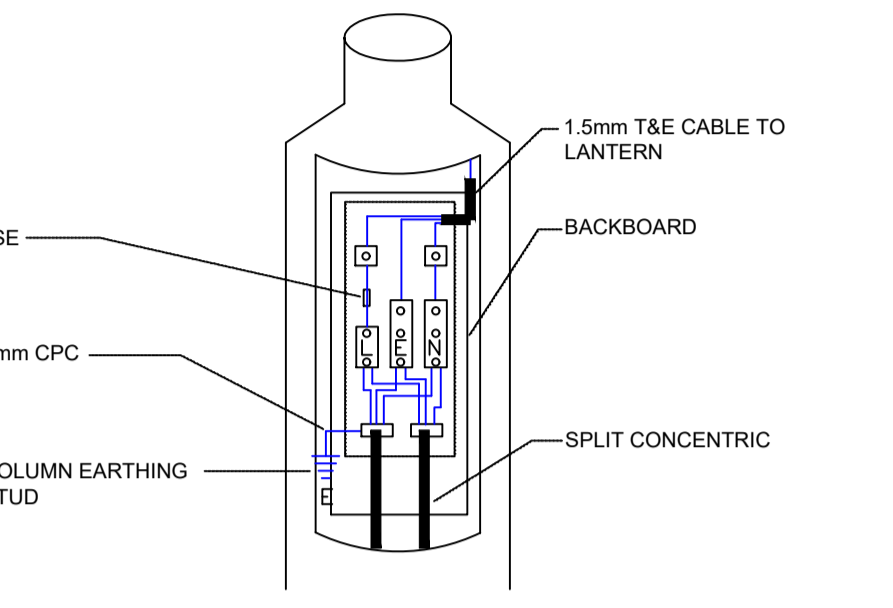
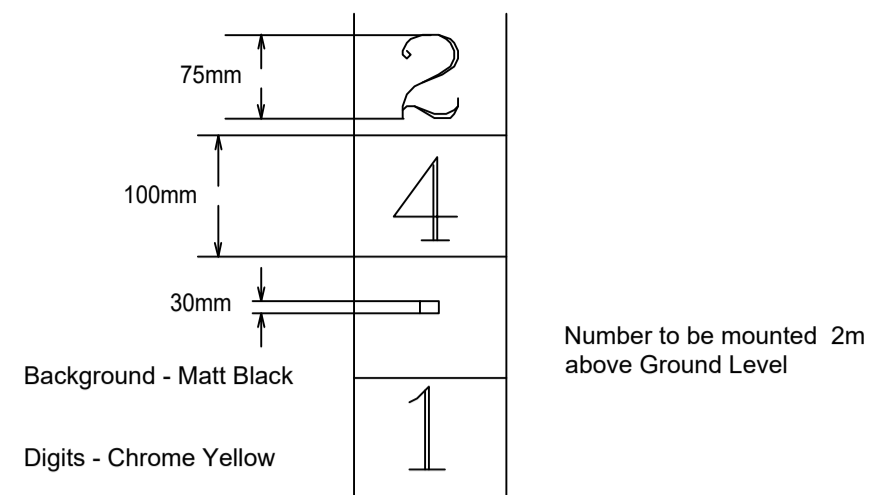
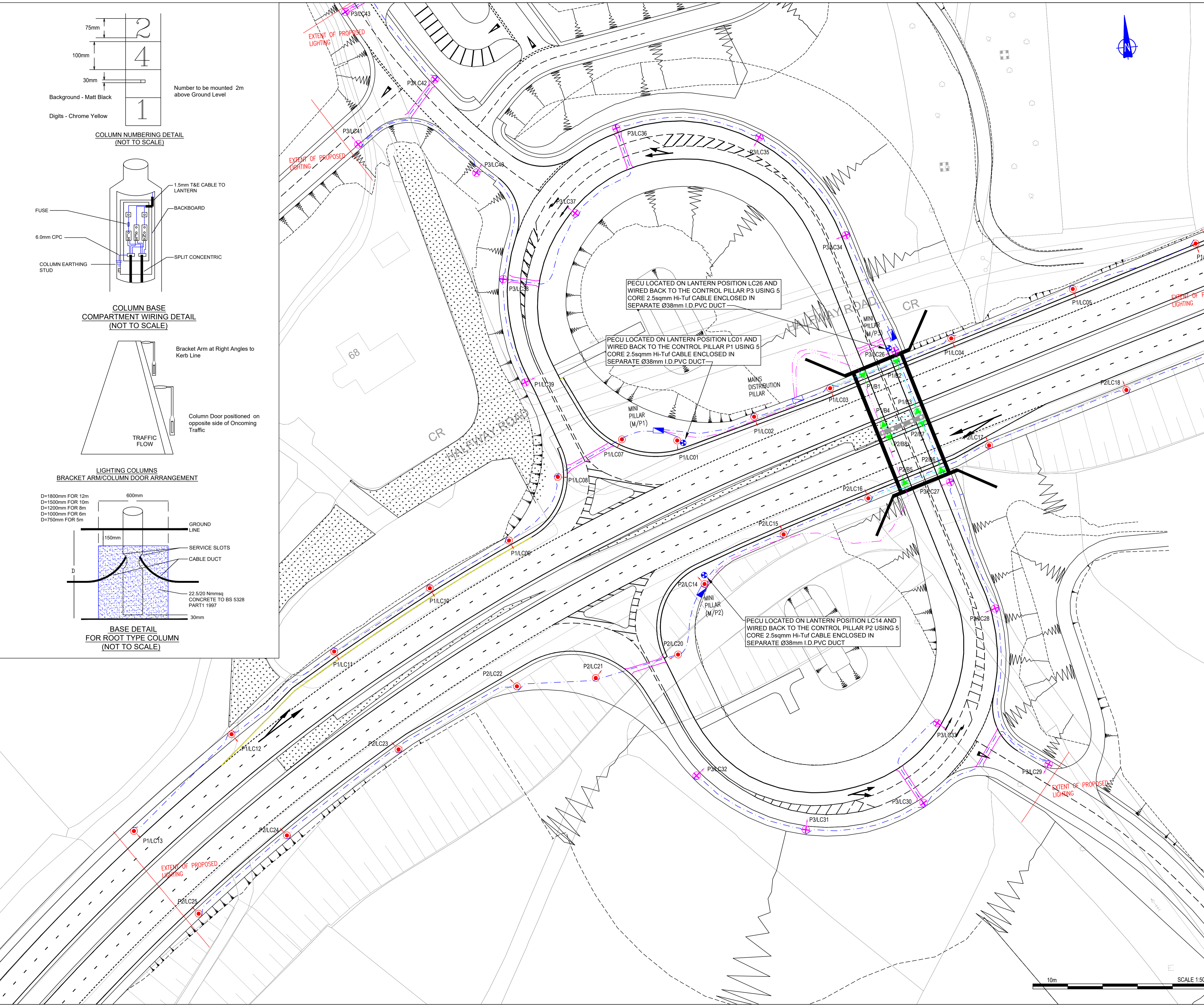
Department for
Infrastructure
An Roinn
Bonneagair
www.infrastructure-ni.gov.uk

Project

Title
**Proposed Service Diversions
Northern Ireland Water**

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488
Scale 1:1000	Designed KC	Drawn By KC
Original Size A1	Date 26/03/2018	Date 26/03/2018
	Date 18/02/2019	Date 18/02/2019
Drawing Number	P1	
TNI Ref	Originator	Volume
168014-RPSB-VUT-J4-DR-HE-100-00012		





NOTES

- Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services. Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
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4. DATUM: Irish Grid

5. KEY
- MATERIAL SPECIFICATION**
- HYLITE HL10 PHOTOELECTRIC CELL
 - 35.0SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
 - 16.0SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
 - 2.5SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
 - MAINS DISTRIBUTION PILLAR
 - CONTROL AND DISTRIBUTION PILLAR
 - Ø150mm DUCT (FOR CABLE IN ROAD INSTALLATION)

- KEY:**
- LANTERN DETAILS**
- Lantern Type : AMPERA MAXI 5118-128 Cree XP-G2 500mA NW
 - Maintenance Factor : 0.84
 - Lamp Type : 128 Cree XP-G2
 - Lamp Output : 23510 lumens
 - Height : 10 metres
 - Bracket Length : BOTTOM ENTRY MOUNTED
 - Inclination : 5°
 - No. of Units : 21
 - Driver Type : CLO
 - Charge Code : 4101910001100
 - Circuit watts : 191
 - Lantern Type : AXIA 2.25187 - 48 Nichia NVSL219CT 1000mA NW
 - Maintenance Factor : 0.83
 - Lamp Type : 48 Nichia NVSL219CT
 - Lamp Output : 20070 lumens
 - Height : 10 metres
 - Bracket Length : BOTTOM ENTRY MOUNTED
 - Inclination : 5°
 - No. of Units : 15
 - Driver Type : CLO
 - Charge Code : 42 0142 0000 100
 - Circuit watts : 142
 - Lantern Type : NECOS 5568 64 LED 500mA NW FLAT GLASS EXTRA CLEAR
 - Maintenance Factor : 0.80
 - Lamp Type : 64 LEDs
 - Lamp Output : 12580 lumens
 - Height : 5 metres
 - Bracket Length : N/A
 - Inclination : 0°
 - No. of Units : 8
 - Driver Type : CLO
 - Charge Code : 42 0142 0000 100
 - Circuit watts : 142
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Client

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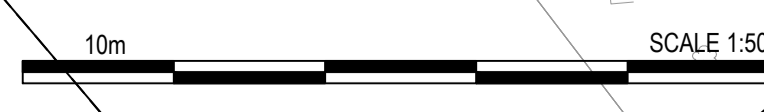
Project

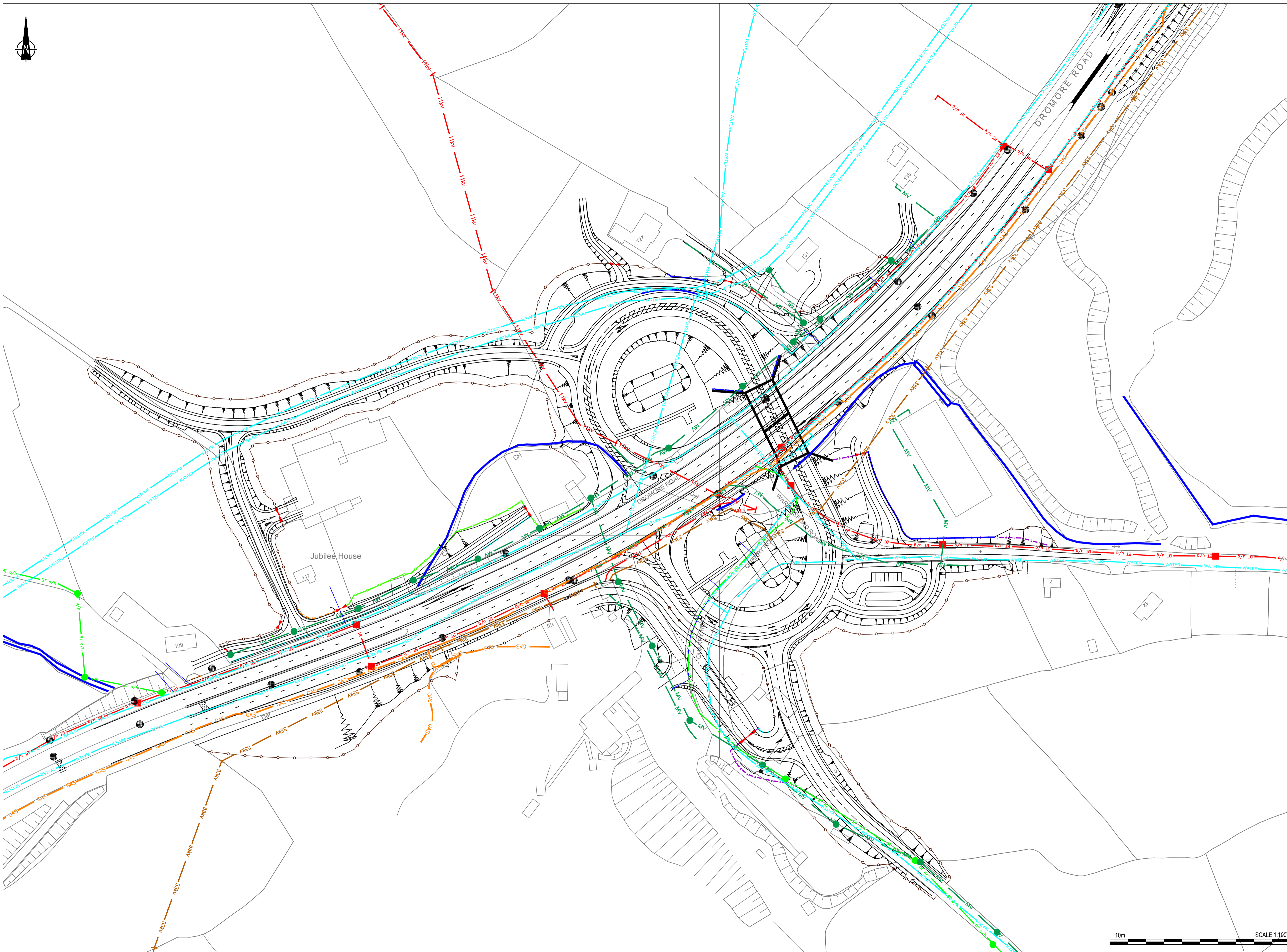
A1 Junctions Phase 2

Title

JUNCTION 4 - SKELTONS/ DRUMNEATH PROPOSED LIGHTING LAYOUT

Drawing Status	Suitability	Project Ref No.		
S2	FOR INFORMATION	IBH0488		
Scale	Designed	Drawn By	Checked	Authorised
1:500	PA	PA	PN	CD
Original Size	Date	Date	Date	Date
A1	14/08/18	14/08/18	18/02/19	18/02/19
Drawing Number	Rev			
TNI Ref Originator Volume Location Type Discipline Classification Number	P1			
168014-RPSB-HLG-J4-DR-LE-1300-00001				





NOTES

- Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
- 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 Sweco will not accept any responsibility for any errors arising from the use of these files, either by human error or 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 recipients drawing production, or setting out on site.
- DATUM: Irish Grid

Key

Existing Survey / OS Mapping

Proposed Layout

Existing BT Services

BT services (underground)

BT joint boxes

BT services (overhead)

BT poles

BT cabinet

Existing NIE Services

NIE services (275kV)

NIE services (110kV)

NIE services (33kV)

NIE services (11kV)

NIE services (MV)

NIE services (services)

NIE services (overhead)

NIE services (MV pole)

NIE services (substation)

Existing NIW services

NIW watermain

NIW combined sewer

NIW foul sewer

NIW storm sewer

NIW abandoned sewer

NIW private sewer

Existing street lighting services

DfI Roads street lighting column

DfI Roads lit traffic bollard

DfI Roads mini pillar

DBFO CO street lighting column

DBFO CO lit traffic bollard

DBFO CO mini pillar

Existing Firmus services

Firmus services

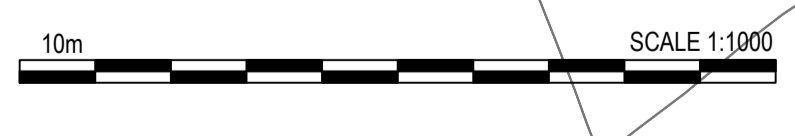
Phoenix services

Existing watercourses

Designated watercourse

Rivers Agency Infrastructure

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**JUNCTION 5 - WARINGSFORD
EXISTING UTILITY SERVICES**

Drawing Number
TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number
168014-RPSB-VUT-J5-DR-HE-100-00011

Rev
P1

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488			
Scale 1:1000	Designed KC	Drawn By KC	Checked PN	Authorised CD	
Original Size A1	Date 20/03/2018	Date 20/03/2018	Date 18/02/2019	Date 18/02/2019	

Client

Department for Infrastructure
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www.infrastructure-ni.gov.uk

Project

**A1 Junctions
Phase 2**

Consultant

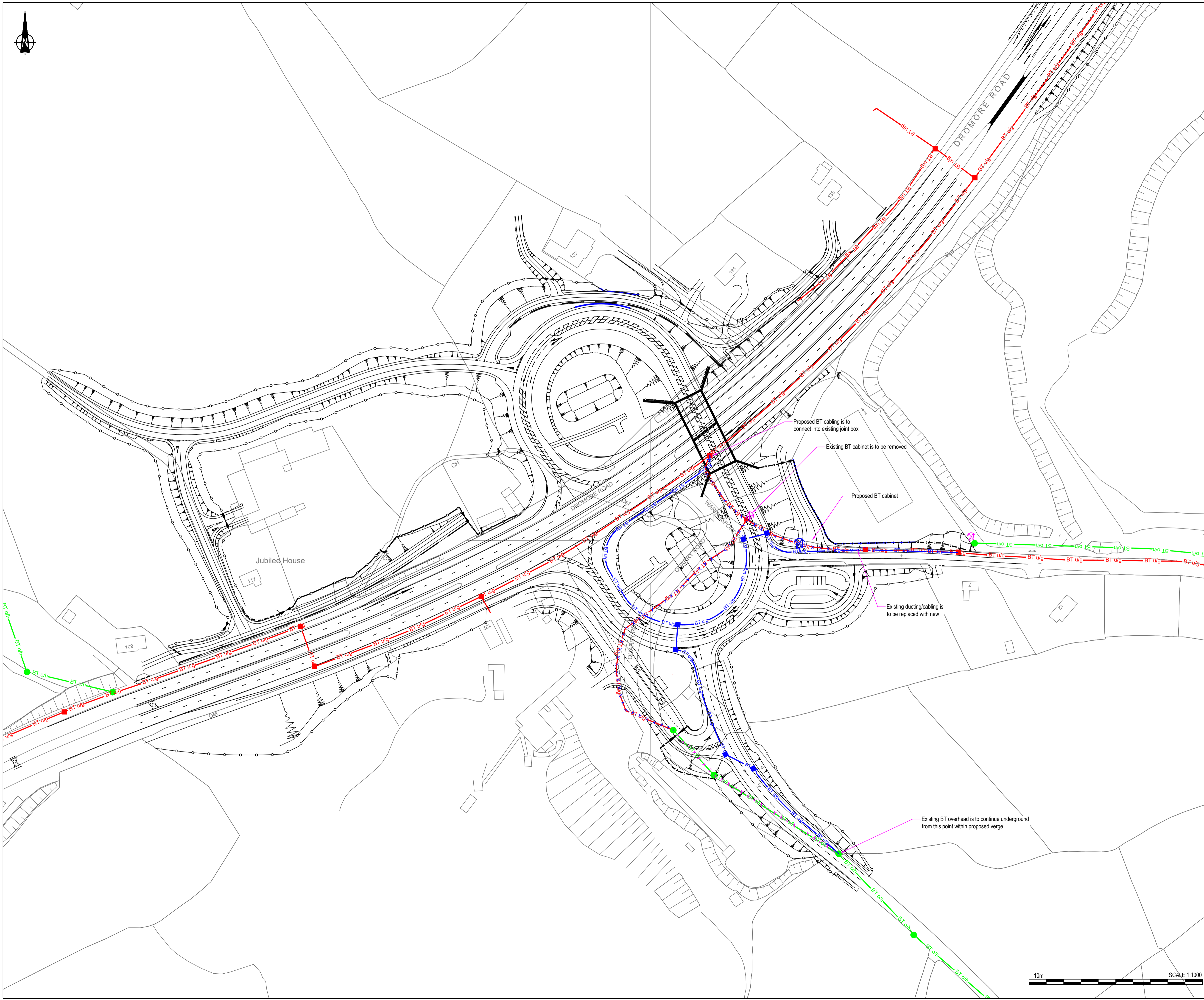
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This drawing may only be used for the purpose intended and only written dimensions should be used.

rev	amendments	drawn	date



NOTES

1. Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
2. Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
3. Issue of Drawings.
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4. DATUM: Irish Grid

5. Legend:
- Existing Survey / OS Mapping
 - Proposed Layout
- BT Existing Services**
- Existing BT services (underground)
 - Existing BT joint boxes
 - Existing BT services (overhead)
 - Existing BT poles
 - Existing BT cabinet
- Diverted BT Services**
- Proposed BT services (overhead)
 - Proposed BT services (underground)
 - Existing BT services abandoned (overhead)
 - Existing BT services abandoned (underground)
 - Proposed BT cabinet

IMPORTANT WARNING

Information concerning the location of British Telecommunications plc, telecommunications apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy; it should not be relied upon in the event of excavations or other work made near to British Telecommunications plc apparatus which may deviate from the marked route. Lead-ins to individual properties are not always shown.

If experiencing any problems to existing BT plant, dial "Freephone Dial Before You Dig" 0800 917 3993 (Option 1)

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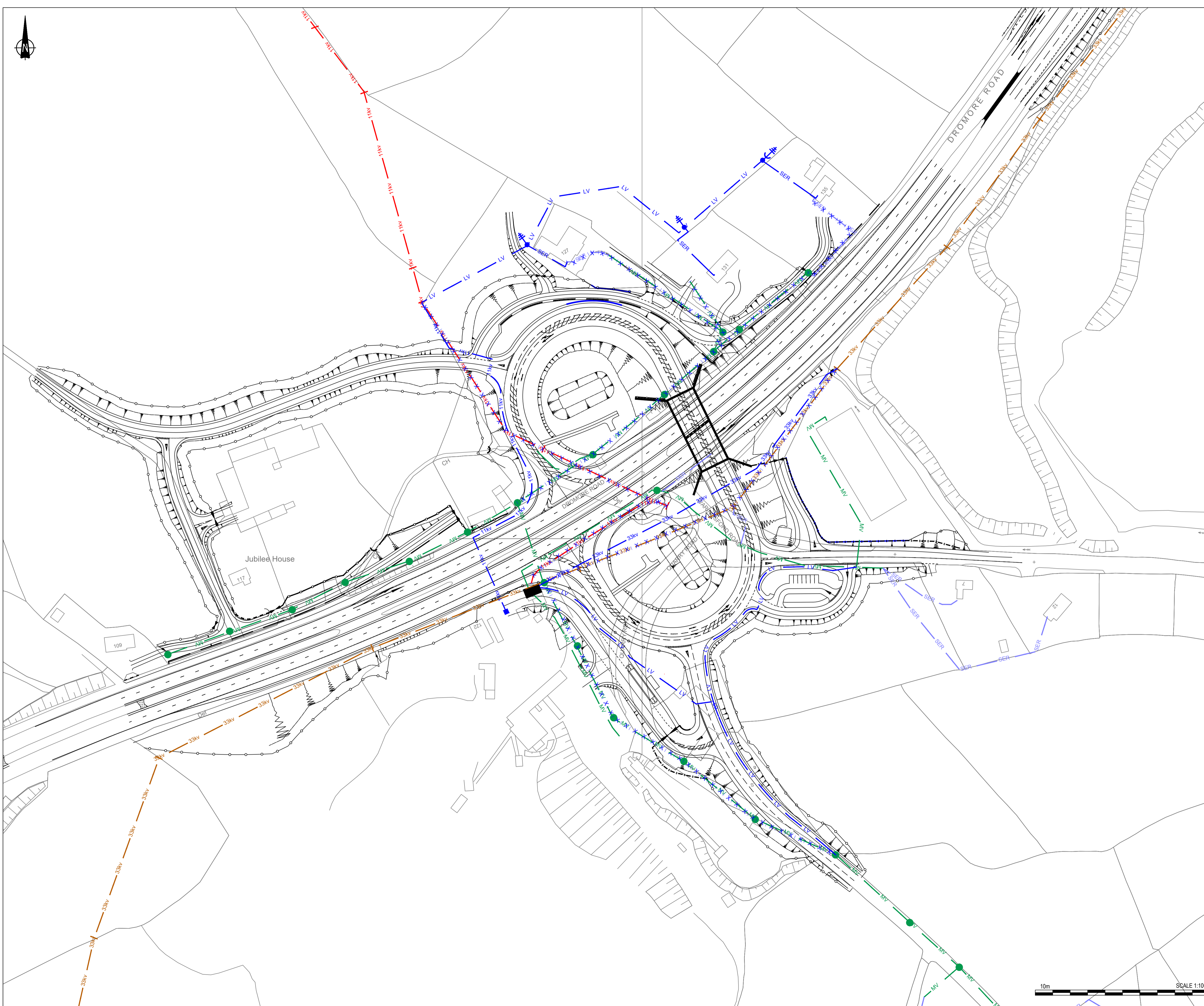
Client

Department for Infrastructure
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www.infrastructure-ni.gov.uk

Project

Title
**Proposed Service Diversions
British Telecommunications**

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488
Scale 1:1000	Designed DM	Drawn By KC
	Checked PN	Authorised CD
Original Size A1	Date 26/03/2018	Date 26/03/2018
	Date 18/02/2019	Date 18/02/2019
Drawing Number	Rev P1	
TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-J5-DR-HE-100-00007		



NOTES

1. Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
2. Existing Services.
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4. DATUM: Irish Grid

5. Legend:

	Existing Survey / OS Mapping
	Proposed Layout
	Proposed Retaining Wall
NIE Existing Services	
	Existing NIE services (33KV)
	Existing NIE services (11KV)
	Existing NIE services (MV)
	Existing NIE services (services)
	Existing NIE services (overhead)
	Existing NIE services (MV pole)
	Existing NIE services (substation)
NIE Diverted Services	
	Proposed NIE services (33KV)
	Proposed NIE services (11KV)
	Proposed NIE services (LV)
	Proposed NIE services (services)
	NIE Existing services (MV abandoned)
	NIE Existing services (11KV abandoned)
	NIE Existing services (33KV abandoned)
	NIE Existing services (services abandoned)
	Proposed NIE services (overhead)
	Proposed NIE services (MV pole)
	Proposed NIE services (intermediate / remote earth)
	Proposed NIE services (pot end)

IMPORTANT WARNING
 Caution ! Cable positions are approximate only
 Please note that smaller service cables may not be shown. Always remember that it is the responsibility of the excavator/contractor to locate and avoid damage to N.I.E equipment. Failure to do so may result in those responsible being held liable.
If any damage whatsoever occurs to NIE equipment all work in the vicinity must stop immediately and the damage must be reported at once to NIE on the following number 03457 643 643

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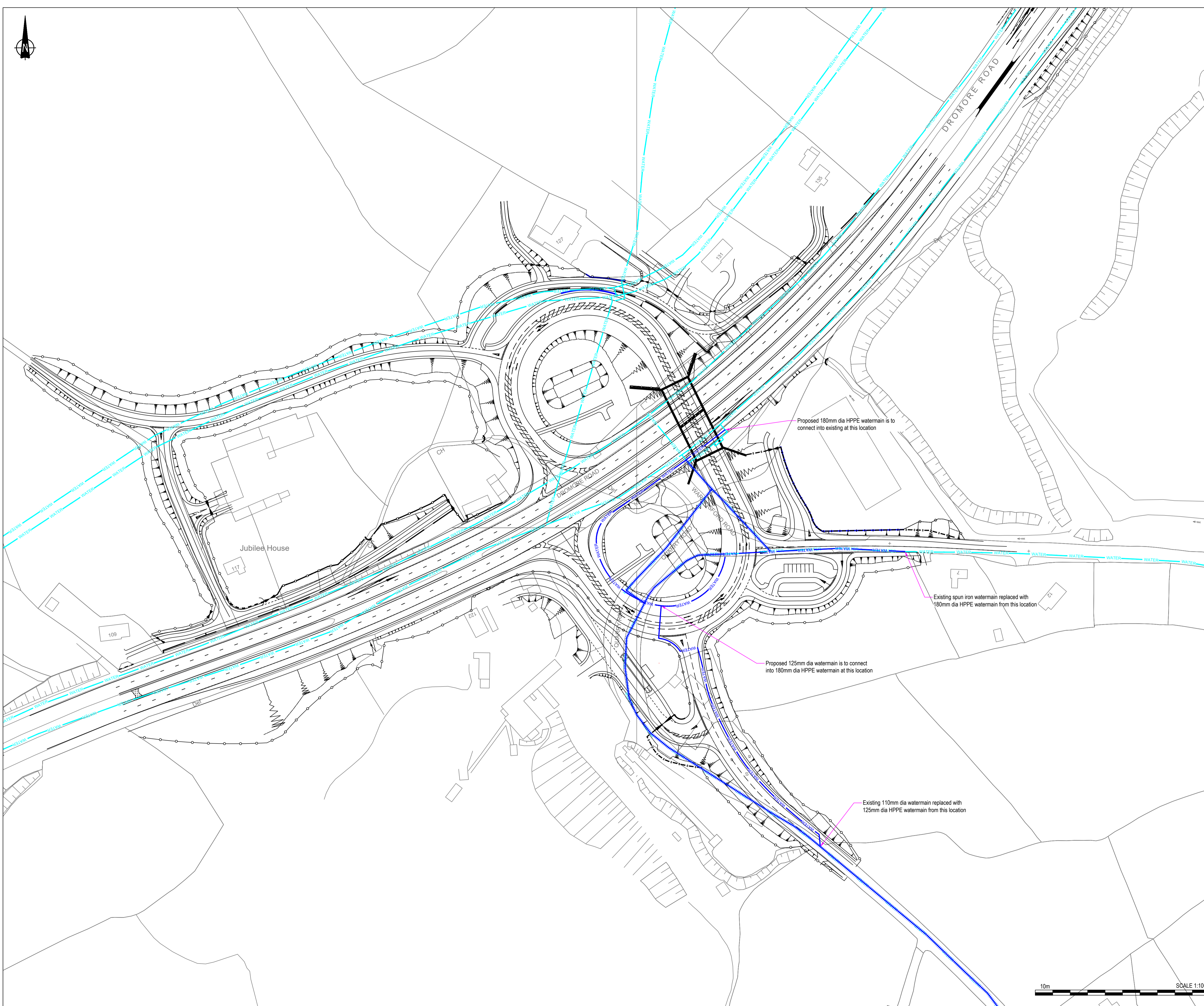
Client

www.infrastructure-ni.gov.uk

Project

Title
**Proposed Service Diversions
 Northern Ireland Electricity**

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488		
Scale 1:1000	Designed DM	Drawn By KC	Checked PN	Authorised CD
Original Size A1	Date 26/03/2018	Date 26/03/2018	Date 18/02/2019	Date 18/02/2019
Drawing Number	Rev P1			
TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-J5-DR-HE-100-00009				



NOTES

- Verifying Dimensions.
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- DATUM: Irish Grid
- Legend:
 - Existing Survey / OS Mapping
 - Proposed Layout
 - Proposed Retaining Wall

NIW Existing services

 - Existing NIW services
 - Old NIW services (previously abandoned)

Diverted NIW services

 - Proposed NIW services
 - Existing NIW services (abandoned)

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REV	COMMENT	DRAWN	CH	AP	DATE

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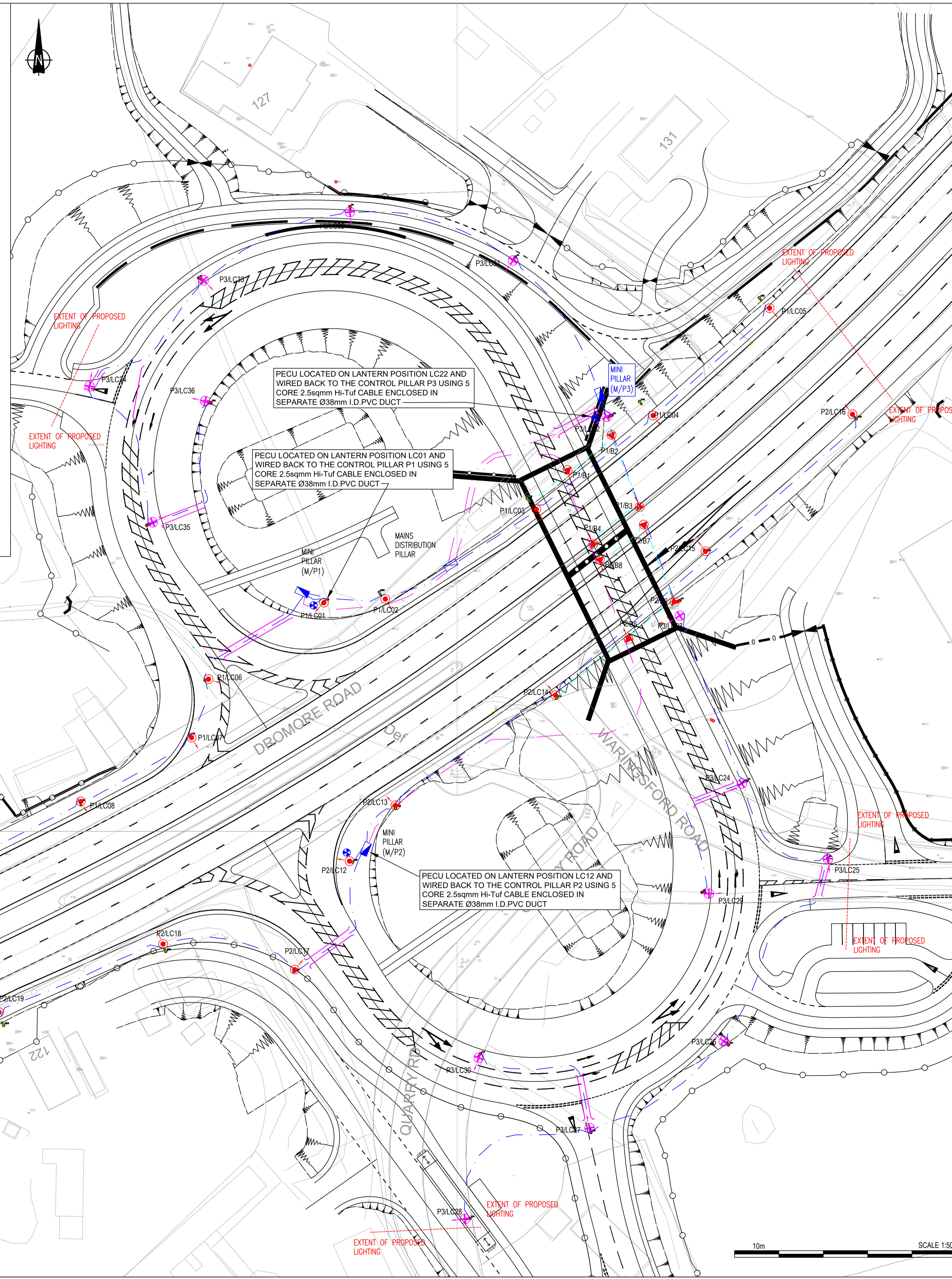
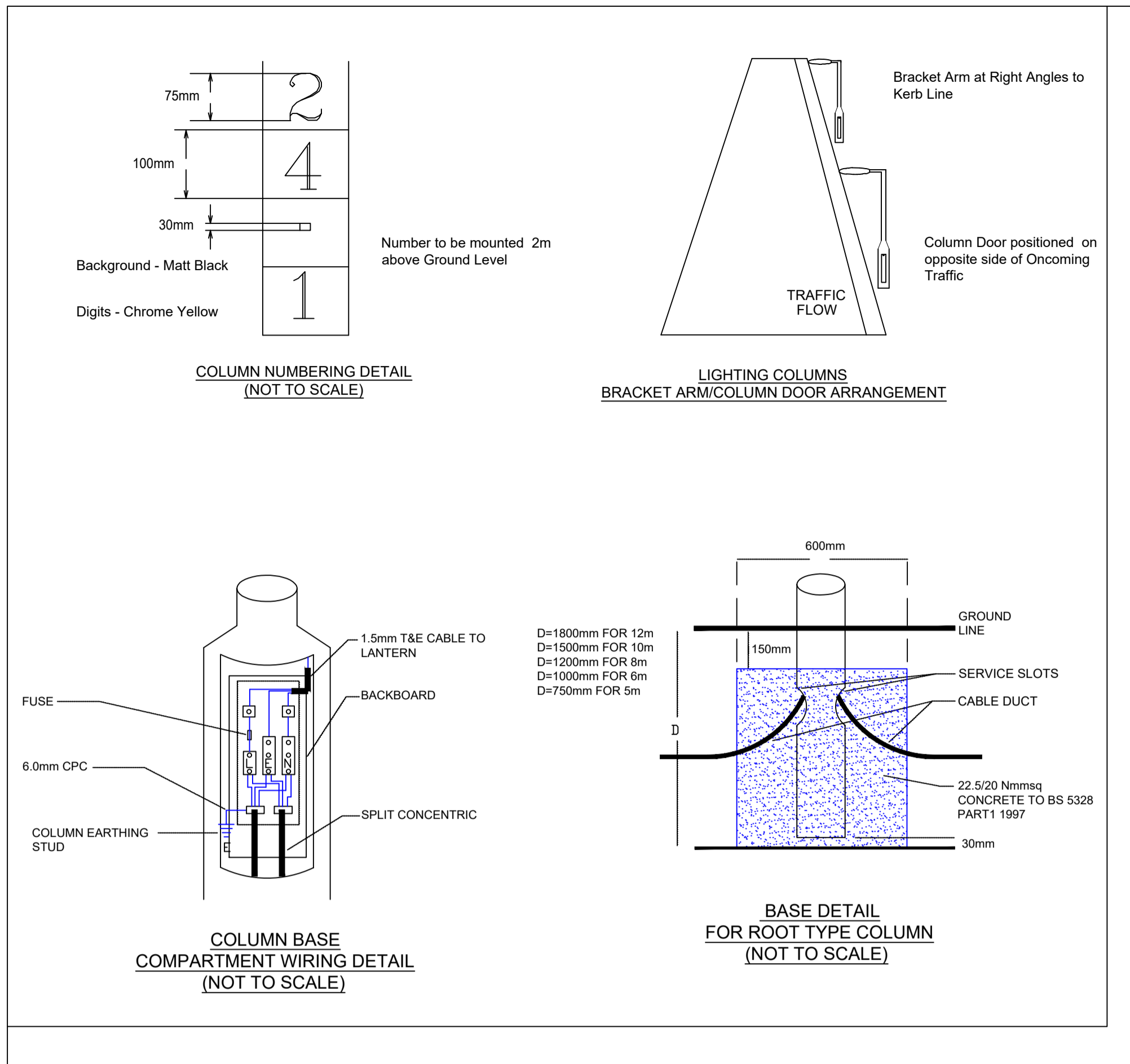
Project

A1 Junctions Phase 2

Title

Proposed Service Diversions Northern Ireland Water

Drawing Status	Suitability	Project Ref No.			
S2	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	DM	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019	
Drawing Number					Rev P1
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-VUT-J5-DR-HE-100-00010					



NOTES

- Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services. Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
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- DATUM: Irish Grid
- KEY

MATERIAL SPECIFICATION

- HYLITE HL10 PHOTOELECTRIC CELL
- 35.0SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
- 16.0SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
- 2.5SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAID IN Ø38mm I.D. DUCT
- MAINS DISTRIBUTION PILLAR
- CONTROL AND DISTRIBUTION PILLAR
- Ø150mm DUCT (FOR CABLE IN ROAD INSTALLATION)

LANTERN DETAILS

- Lantern Type : AMPERA MAXI 5118-128 Cree XP-G2 500mA NW
Maintenance Factor : 0.84
Lamp Type : 128 Cree XP-G2
Lamp Output : 23510 lumens
Height : 10 metres
Bracket Length : BOTTOM ENTRY MOUNTED
Inclination : 5°
No. of Units : 21
Driver Type : CLO
Charge Code : 4101910001100
Circuit watts : 191
- Lantern Type : AXIA 2.2 5187 - 48 Nichia NVSL219CT 1000mA NW
Maintenance Factor : 0.83
Lamp Type : 48 Nichia NVSL219CT
Lamp Output : 20070 lumens
Height : 10 metres
Bracket Length : BOTTOM ENTRY MOUNTED
Inclination : 5°
No. of Units : 15
Driver Type : CLO
Charge Code : 42 0142 0000 100
Circuit watts : 142
- Lantern Type : NEOS 3 5068 64 LED 500mA NW FLAT GLASS EXTRA CLEAR
Maintenance Factor : 0.80
Lamp Type : 64 LEDs
Lamp Output : 12580 lumens
Height : 5 metres
Bracket Length : N/A
Inclination : 0°
No. of Units : 8
Driver Type : CLO
Charge Code : 42 0142 0000 100
Circuit watts : 142

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REV	COMMENT	DRAWN	CH	AP	DATE

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Client

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

Project

A1 Junctions Phase 2

Title

JUNCTION 5 - WARINGSTOWN PROPOSED LIGHTING LAYOUT

Drawing Status	Suitability	Project Ref No.
S2	INFORMATION	IBH0488

Scale	Designed	Drawn By	Checked	Authorised
As Shown	DMI	DMI	JB	CD

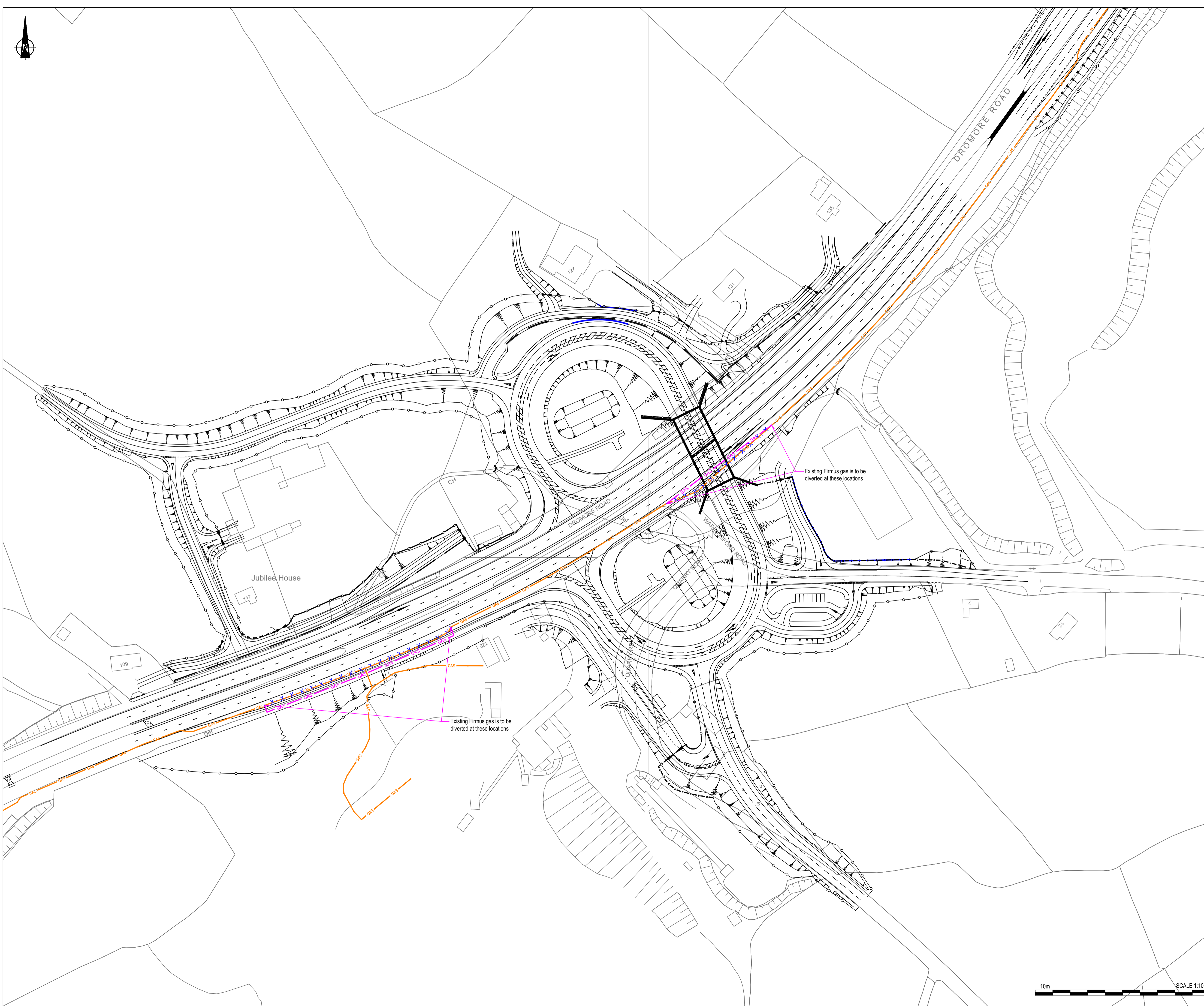
Original Size	Date	Date	Date	Date
A1	18/01/17	18/01/17	18/01/17	19/01/17

Drawing Number

Rev **P1**

TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number

168014-RPSB-HLG-J5-DR-LE-1300-00001



NOTES

1. Verifying Dimensions.
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4. DATUM: Irish Grid

5. Legend:

	Existing Survey / OS Mapping
	Proposed Layout
	Proposed Retaining Wall
Existing Firmus Gas services	
	Existing Firmus Gas (medium pressure)
Firmus Gas Diversion	
	Proposed Firmus Gas (medium pressure)
	Existing Firmus Gas (abandoned)

IMPORTANT WARNING

The information shown on this plan is a general guide and the accuracy thereof cannot be guaranteed. Service pipes are generally not shown but their presence should be anticipated. No liability is accepted for any discrepancy, omission or deviation and the actual position of mains and services must be verified and established on site before any mechanical excavating plant is used.

For further information E-mail
dialb4udig@firmusenergy.co.uk
 or
 Telephone 08456 08 00 66

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REV	COMMENT	DRAWN	CH	AP	DATE

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 BT12 6RZ E ireland@rpsgroup.com

Client

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

Project

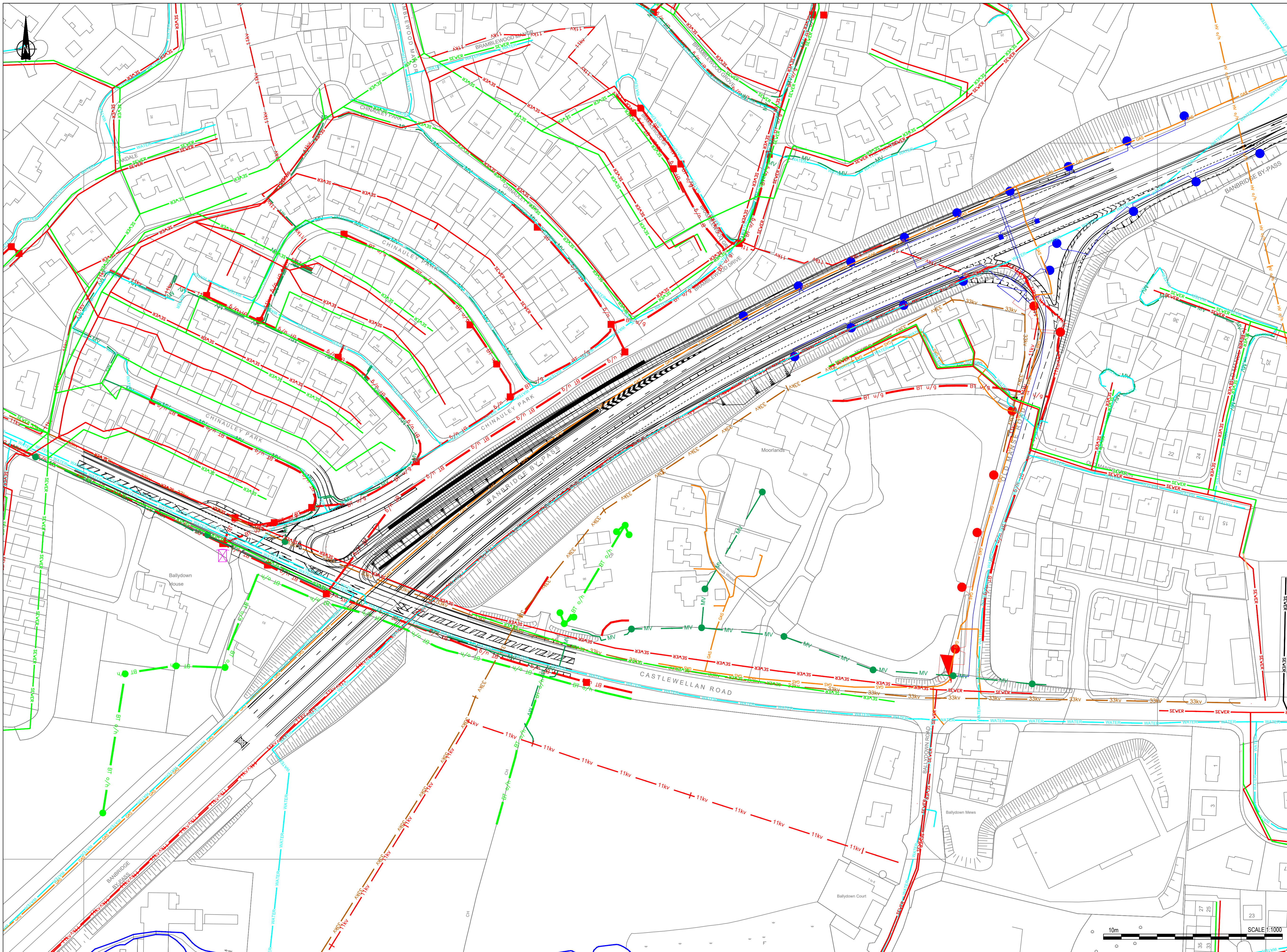
A1 Junctions Phase 2

Title

Proposed Service Diversions
 Firmus Gas

Drawing Status	Suitability	Project Ref No.			
S2	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	DM	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019	
Drawing Number					Rev P1
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-VUT-J5-DR-HE-100-00008					





NOTES

- Verifying Dimensions.
The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services.
Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
- 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 Sweco will not accept any responsibility for any errors arising from the use of these files, either by human error or 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.
- DATUM: Irish Grid

Key

Existing Survey / OS Mapping

Proposed Layout

Existing BT Services

BT services (underground)

BT joint boxes

BT services (overhead)

BT poles

BT cabinet

Existing NIE Services

NIE services (275kV)

NIE services (110kV)

NIE services (33kV)

NIE services (11kV)

NIE services (MV)

NIE services (services)

NIE services (overhead)

NIE services (MV pole)

NIE services (substation)

Existing NIW services

NIW watermain

NIW combined sewer

NIW foul sewer

NIW storm sewer

NIW abandoned sewer

NIW private sewer

Existing street lighting services

DfI Roads street lighting column

DfI Roads lit traffic bollard

DfI Roads mini pillar

DBFO CO street lighting column

DBFO CO lit traffic bollard

DBFO CO mini pillar

Existing Firmus services

Firmus services

Phoenix services

Existing watercourses

Designated watercourse

Rivers Agency Infrastructure

JUNCTION 6 - CASTLEWELLAN EXISTING UTILITY SERVICES

Drawing Number: TNI Ref | Originator | Volume | Location | Type | Discipline | Classification | Number
168014-RPSB-VUT-J6-DR-HE-100-00013

Rev: P1

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488			
Scale 1:1000	Designed KC	Drawn By KC	Checked PN	Authorised CD	
Original Size A1	Date 20/03/2018	Date 20/03/2018	Date 18/02/2019	Date 18/02/2019	

Client

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

Project

A1 Junctions Phase 2

Consultant

RPS
SWECO

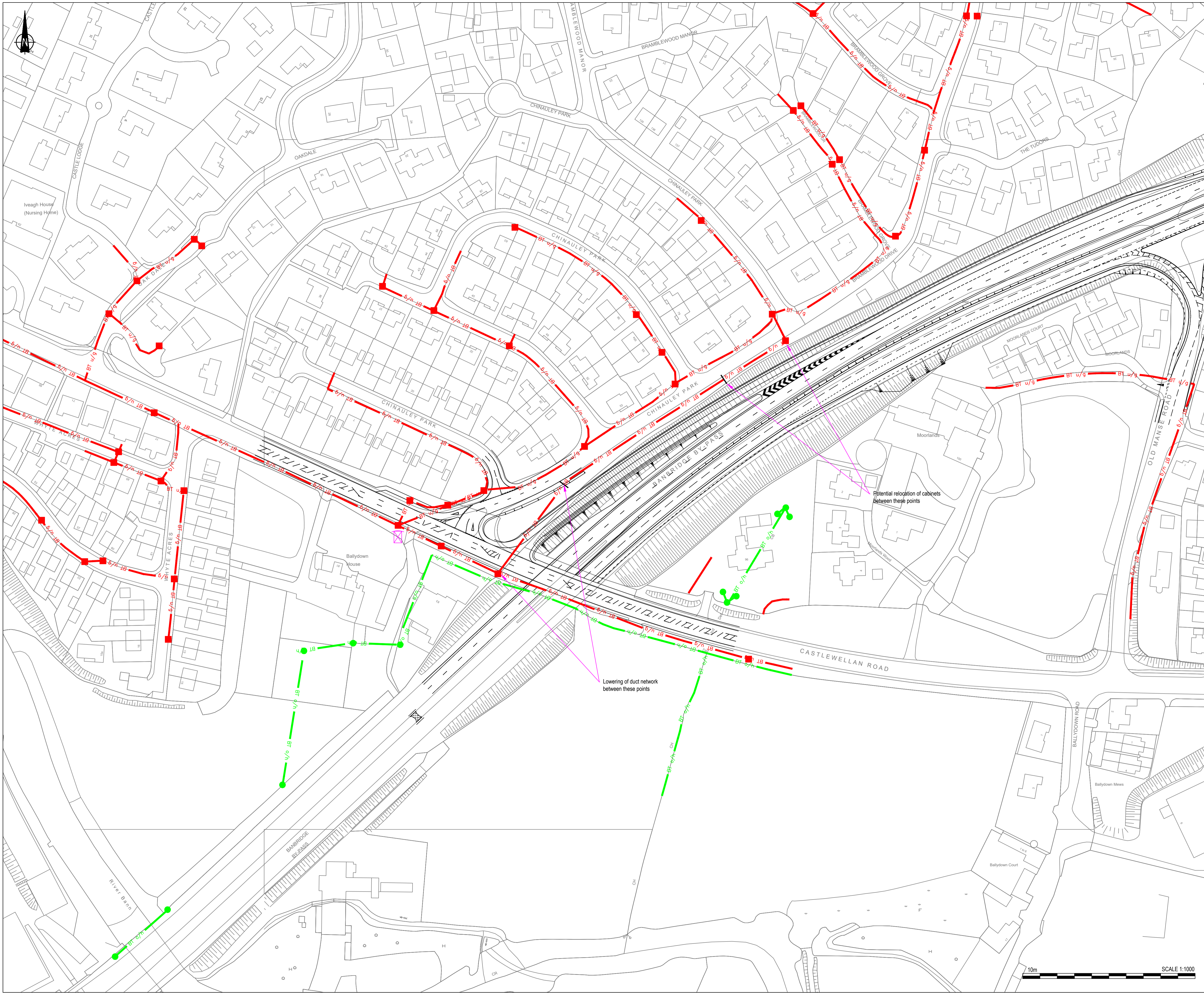
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rev	amendments	drawn	date
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NOTES

- Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services. Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
- 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.

4. DATUM: Irish Grid

5. Legend:
- Existing Survey / OS Mapping
 - Proposed Layout
- BT Existing Services**
- Existing BT services (underground)
 - Existing BT joint boxes
 - Existing BT services (overhead)
 - Existing BT poles
 - Existing BT cabinet

IMPORTANT WARNING

Information concerning the location of British Telecommunications plc, telecommunications apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy, it should not be relied upon in the event of excavations or other work made near to British Telecommunications plc apparatus which may deviate from the marked route. Lead-ins to individual properties are not always shown.

If experiencing any problems to existing BT plant, dial "Freefone Dial Before You Dig" 0800 917 3993 (Option 1)

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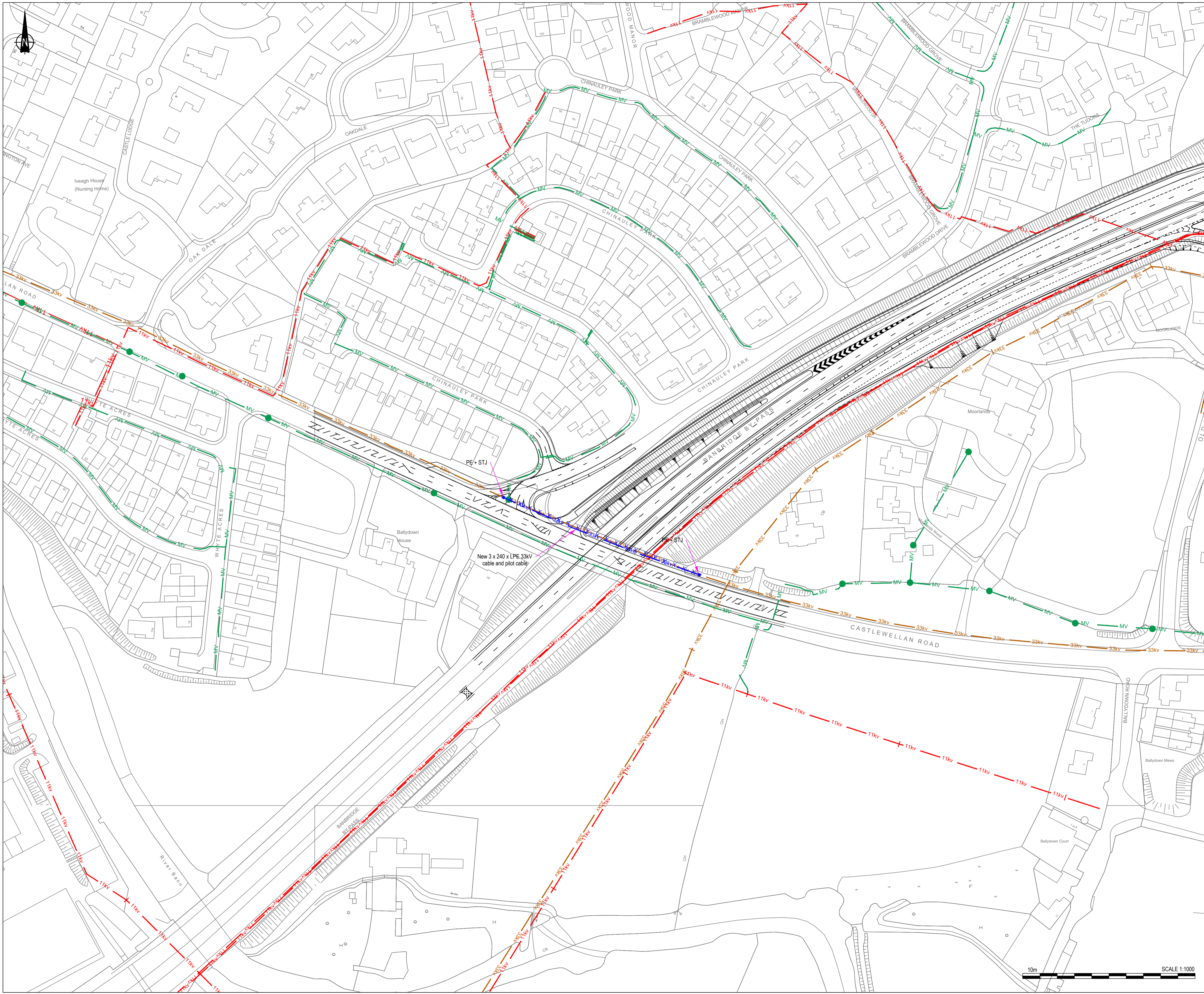
Client

Department for Infrastructure
An Room Bonneagair
www.infrastructure-ni.gov.uk

Project

Title
**Proposed Service Diversions
British Telecommunications**

Drawing Status S2	Suitability For Information	Project Ref No. IBH0488
Scale 1:1000	Designed KC	Drawn By KC
Original Size A1	Checked PN	Authorised CD
Date 26/03/2018	Date 26/03/2018	Date 18/02/2019
Date 18/02/2019	Date 18/02/2019	Date 18/02/2019
Drawing Number	P1	
TNI Ref Originator Volume Location Type Discipline Classification Number 168014-RPSB-VUT-J6-DR-HE-100-00010		



NOTES

- Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services. Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
- 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.

4. DATUM: Irish Grid

5. Legend:
- Existing Survey / OS Mapping
 - Proposed Layout

- NIE Existing Services**
- Existing NIE services (275kV)
 - Existing NIE services (110kV)
 - Existing NIE services (33kV)
 - Existing NIE services (11kV)
 - Existing NIE services (MV)
 - Existing NIE services (services)
 - Existing NIE services (overhead)
 - Existing NIE services (MV pole)
 - Existing NIE services (substation)

- NIE Proposed Services**
- Proposed NIE services (33kV)
 - Proposed NIE services (services)
 - NIE Existing services (33kV abandoned)

IMPORTANT WARNING

Caution! Cable positions are approximate only. Please note that smaller service cables may not be shown. Always remember that it is the responsibility of the excavator/contractor to locate and avoid damage to N.I.E. equipment. Failure to do so may result in those responsible being held liable.

If any damage whatsoever occurs to NIE equipment all work in the vicinity must stop immediately and the damage must be reported at once to NIE on the following number 03457 643 643

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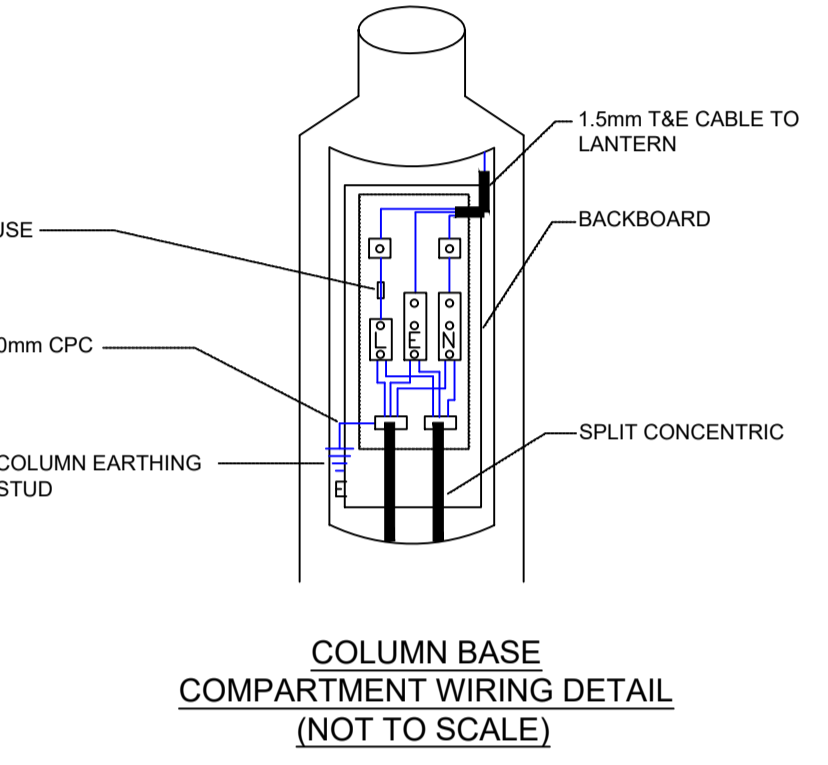
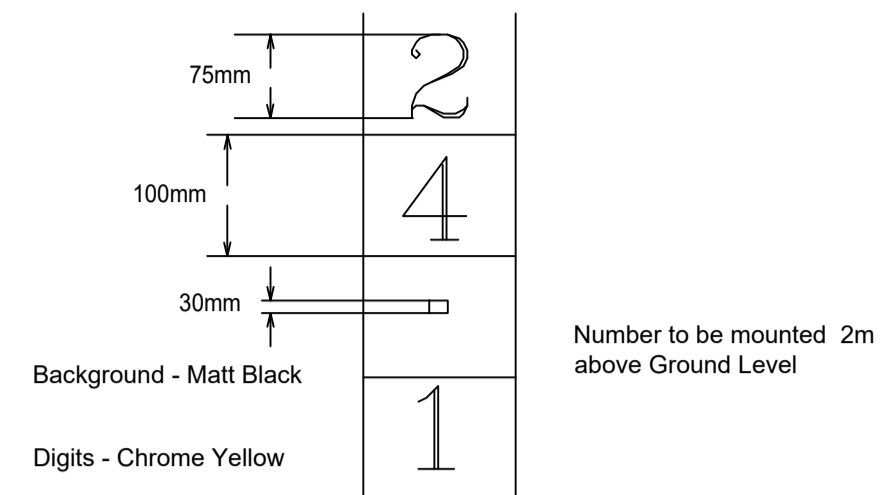
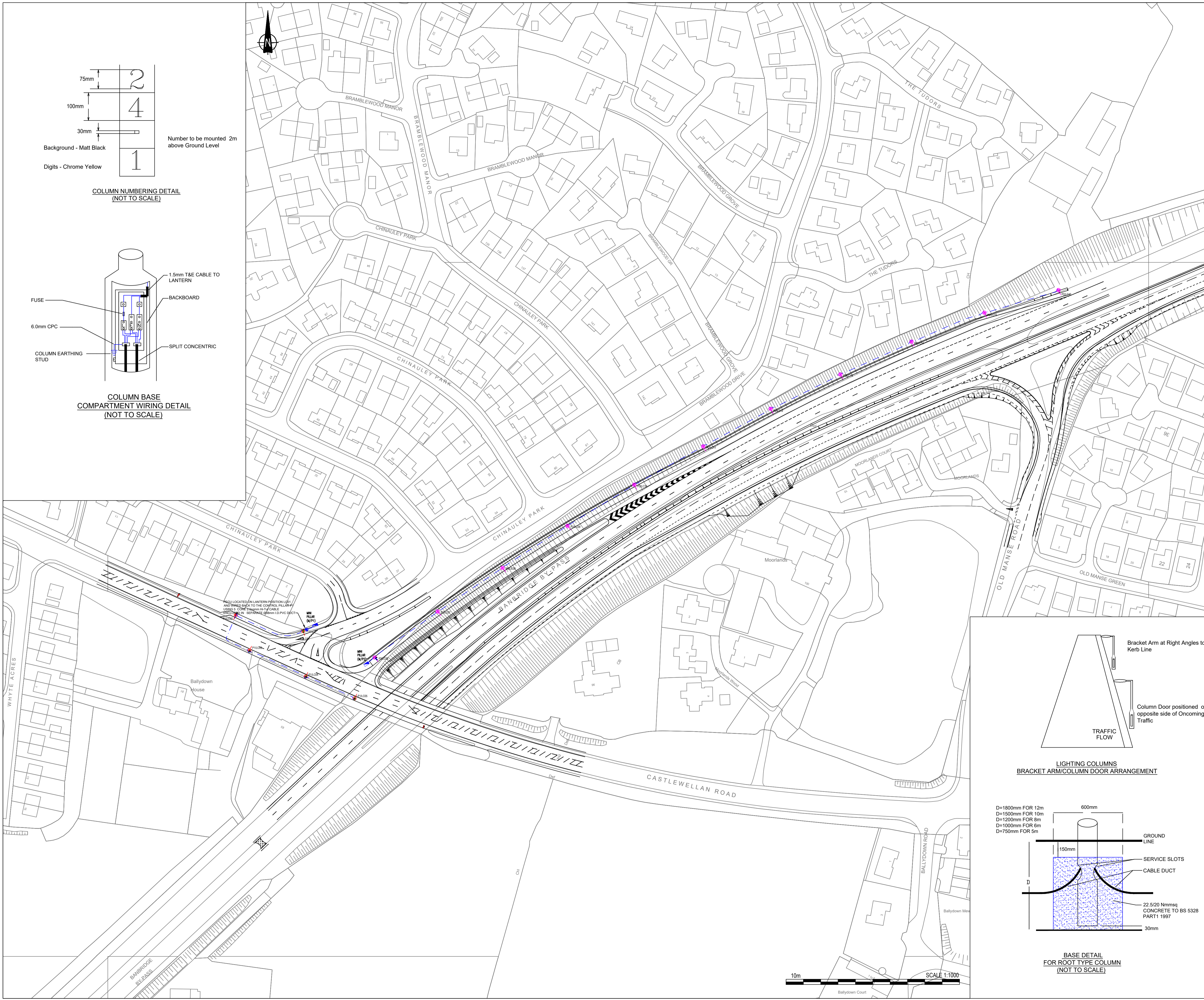
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 BT12 6RZ E ireland@rpsgroup.com

Client: Department for Infrastructure
 An Roinn **Bonneagair**
 www.infrastructure-ni.gov.uk

Project: **A1 Junctions Phase 2**

Title: Proposed Service Diversions Northern Ireland Electricity

Drawing Status	Suitability	Project Ref No.			
S2	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	KC	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019	
Drawing Number	P1				
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-VUT-J6-DR-HE-100-00011					



NOTES

- Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
- Existing Services. Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
- 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.
- DATUM: Irish Grid
- KEY:

MATERIAL SPECIFICATION	
	HYLITE HL10 PHOTOELECTRIC CELL
	35.0SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAD IN Ø38mm I.D. DUCT
	10.0SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAD IN Ø38mm I.D. DUCT
	2.5SQMM 3 No. CORE XLPE/PVC/SWA/PVC CABLE LAD IN Ø38mm I.D. DUCT
	MAINS DISTRIBUTION PILLAR
	CONTROL AND DISTRIBUTION PILLAR
	Ø150mm DUCT (FOR CABLE IN ROAD INSTALLATION)

LANTERN DETAILS	
	Lantern Type : AMPERA MIDI 5117-64 LEDs 700mA NW
	Maintenance Factor : 0.80
	Lamp Type : 64 LEDs
	Lamp Output : 14160 lumens
	Height : 10 metres
	Bracket Length : BOTTOM ENTRY MOUNTED
	Inclination : 5°
	No of Units : 5
	Driver Type : CLO
	Charge Code : 41 0127 0003 100
	Circuit watts : 127
	Lantern Type : AMPERA MIDI 5096-64 LEDs 700mA NW
	Maintenance Factor : 0.81
	Lamp Type : 64 LEDs
	Lamp Output : 14160 lumens
	Height : 10 metres
	Bracket Length : BOTTOM ENTRY MOUNTED
	Inclination : 5°
	No of Units : 11
	Driver Type : CLO
	Charge Code : 41 0127 0003 100
	Circuit watts : 127
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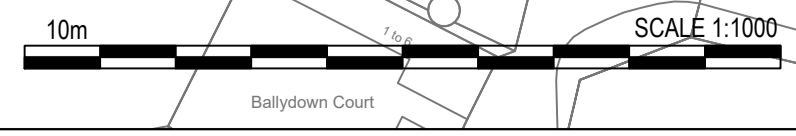
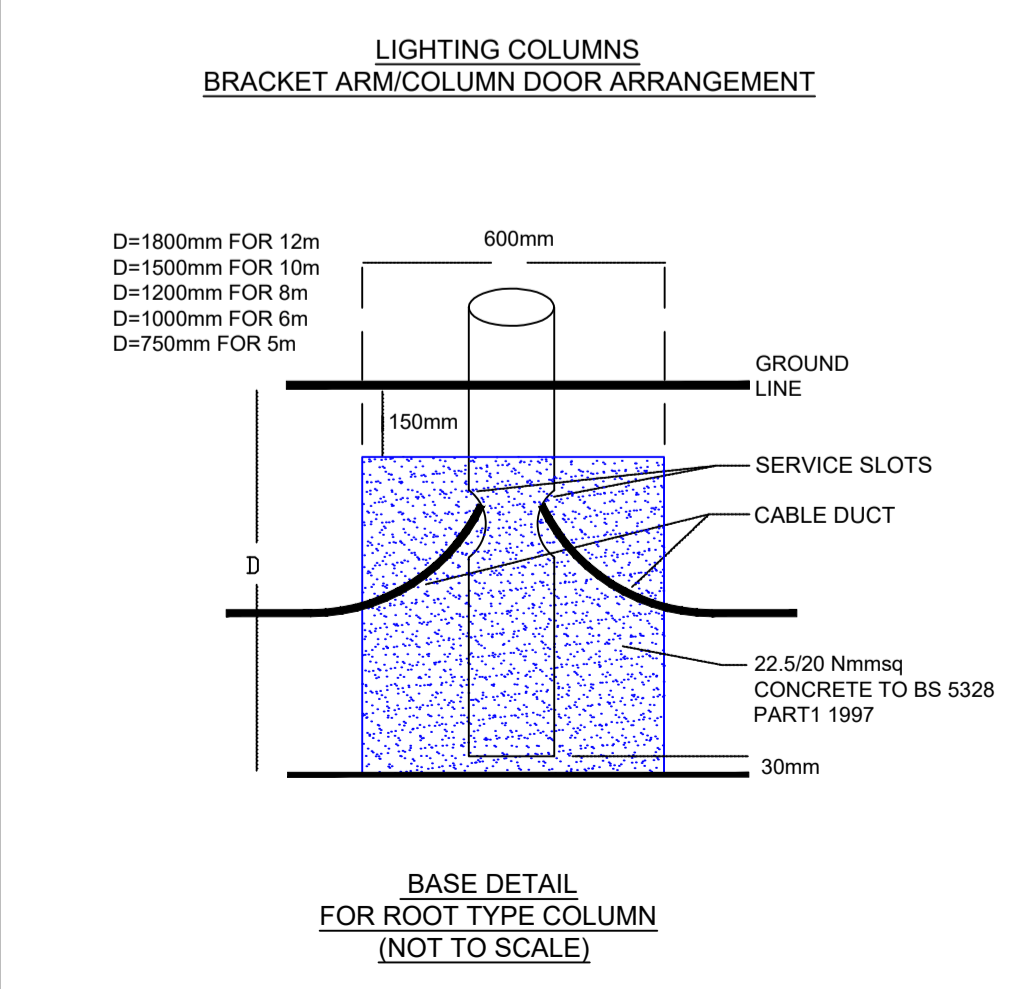
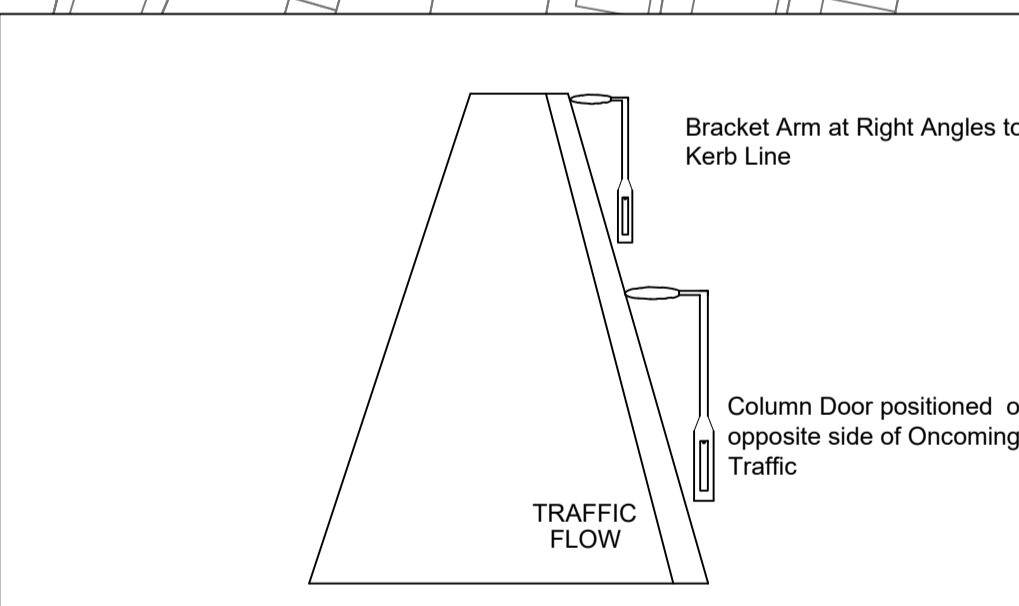
Client

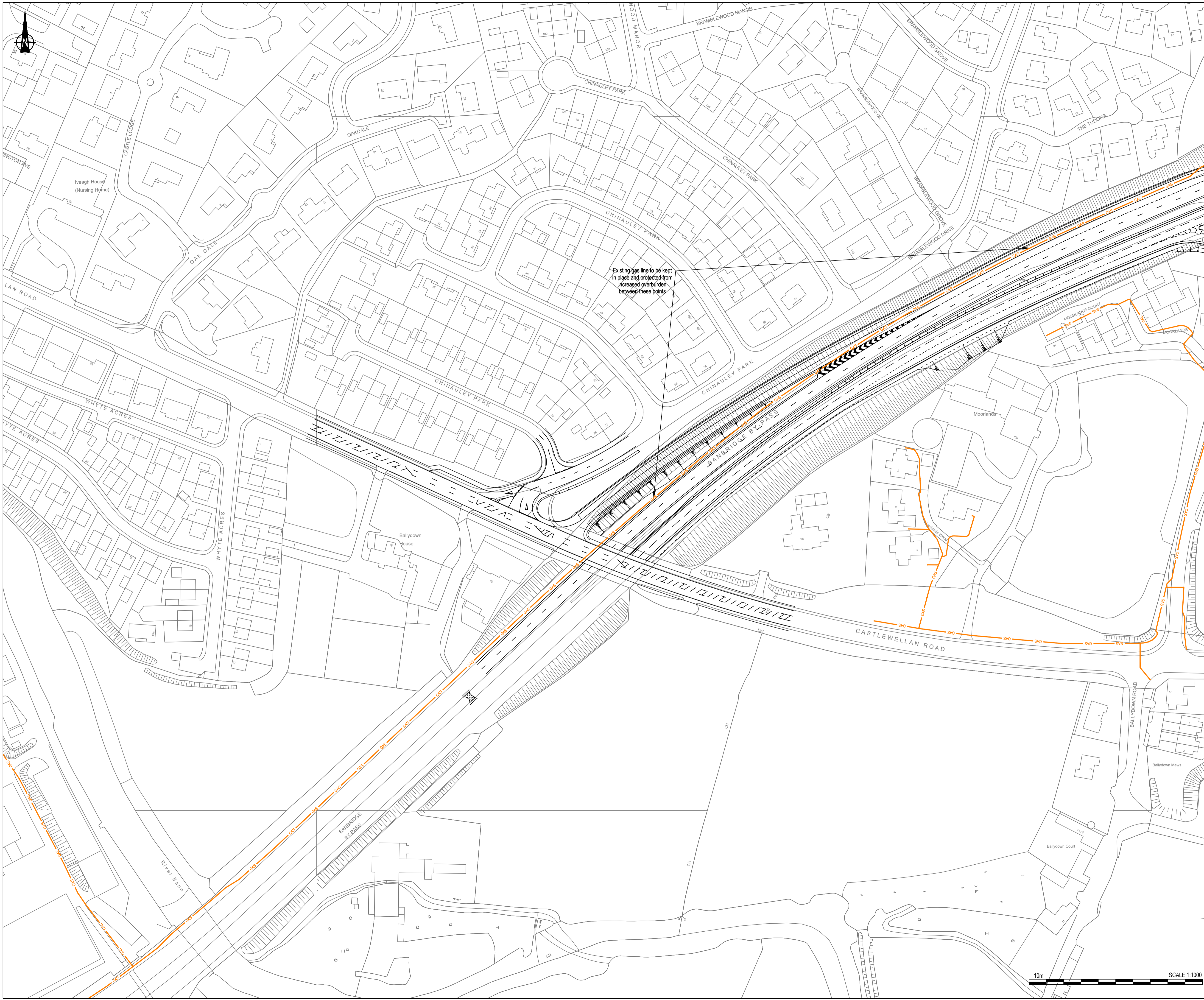
Department for
Infrastructure
An Roinn
Bonneagair
www.infrastructure.ie.gov.uk

Project

Title
**JUNCTION 6 - CASTLEWELLAN
PROPOSED LIGHTING LAYOUT**

Drawing Status	Suitability	Project Ref No.			
S2	FOR INFORMATION	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
NTS	JF	JF	JB	CD	
Original Size	Date	Date	Date	Date	
A1	12/09/18	12/09/18	18/02/2019	18/02/2019	
Drawing Number					P1
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-HLG-J6-DR-LE-1300-00001					





Existing gas line to be kept in place and protected from increased overburden between these points

NOTES

1. Verifying Dimensions. The contractor shall verify dimensions against such other drawings or site conditions as pertain to this part of the work.
2. Existing Services. Any information concerning the location of existing services indicated on this drawing is intended for general guidance only. It shall be the responsibility of the contractor to determine and verify the exact horizontal and vertical alignment of all cables, pipes, etc. (both underground and overhead) before work commences.
3. 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 recipients drawing production, or setting out on site.

4. DATUM: Irish Grid

5. Legend:

- Existing Survey / OS Mapping
- Proposed Layout

Existing Firmus Services

- Firmus services

IMPORTANT WARNING

The information shown on this plan is a general guide and the accuracy thereof cannot be guaranteed. Service pipes are generally not shown but their presence should be anticipated. No liability is accepted for any discrepancy, omission or deviation and the actual position of mains and services must be verified and established on site before any mechanical excavating plant is used.

For further information E-mail dialb4udig@firmusenergy.co.uk or Telephone 08456 08 00 66

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Client

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Project

A1 Junctions Phase 2

Title

Proposed Service Diversions
 Firmus Gas

Drawing Status	Suitability	Project Ref No.			
S2	For Information	IBH0488			
Scale	Designed	Drawn By	Checked	Authorised	
1:1000	KC	KC	PN	CD	
Original Size	Date	Date	Date	Date	
A1	26/03/2018	26/03/2018	18/02/2019	18/02/2019	
Drawing Number					P1
TNI Ref Originator Volume Location Type Discipline Classification Number					
168014-RPSB-VUT-J6-DR-HE-100-00012					