

Legend

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Manhole		Mid Length Sheath Gap Fibre		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Tunnel		Overbridge		Signal		Engineer's Line Reference		Crossing		Gas Line		HV Cable		LV Cable		Sewer		Telecoms		Water		Copper Blue Fibre		Screen Green		AC Stanchion
	Cabinet with Regenerator and Verts		Fibre Joint		Copper Cable		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Manhole		Mid Length Sheath Gap Fibre		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Tunnel		Underbridge		Vehicle Access Point		Mile Post		Gantry		Gas Line		HV Cable		LV Cable		Sewer		Telecoms		Water		Copper Blue Fibre		Screen Green		AC Stanchion
	Cable Description Copper		Cable Description Fibre		Screening Conductor		Cable Description Screening Conductor		Manhole		Mid Length Sheath Gap Fibre		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Tunnel		Overbridge		Signal		Engineer's Line Reference		Crossing		Gas Line		HV Cable		LV Cable		Sewer		Telecoms		Water		Copper Blue Fibre		Screen Green		AC Stanchion				

Manhole details:
 Green - To be used
 Red - In use
 Clear - Empty

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Status
DA	08/08/2008	1st Issue	MT	PW-B	SW	Design
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW	Design
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT	Design

Contractors

Contractor	Scale(s)
NTS	ELR & Message
BML2	

Designed	Phil Wilson-Barnes	Sign.		Date	20/08/2008
Drawn	Michal Taraj	Sign.		Date	20/08/2008
Checked	Phil Wilson-Barnes	Sign.		Date	20/08/2008
Approved	Steve Witt	Sign.		Date	20/08/2008

Project: FTN / GSM-R Project
 Stage 2 Design

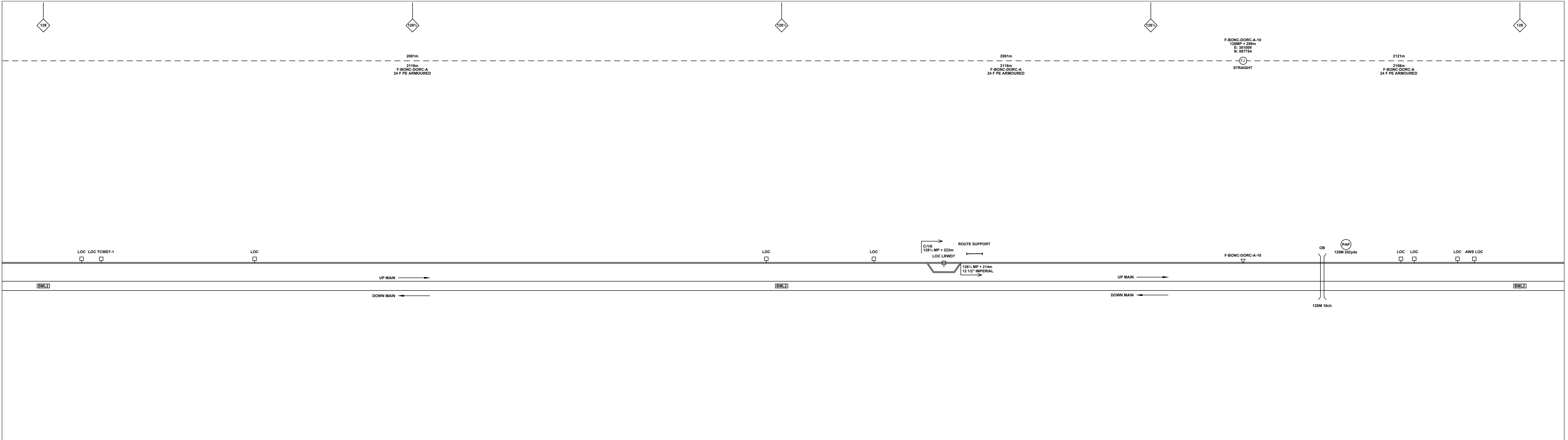
Drawing Title: Moreton Station (1112)
 Wool Station (1113)

FTN/GSM-R Project
 Tournament House
 Pascoon
 London
 WC1A 0AA

Alternative Reference: See Layout Tab A3 Sheets 1 and 2

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 1 of 5
 Revision: B



Legend

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Manhole details: Green-To be used, Red-In use, Clear-Empty		Overbridge		Signal		Engineer's Line Reference
	Cabinet with Regenerator and Verts		Fibre Joint		Copper Cable		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Mid Length Sheath Gap Fibre		Underbridge		Vehicle Access Point		Mile Post
	523m Cable Description Copper		Screening Conductor Joint w/ty/without Earth		Fibre Cable		Manhole		FTN Access Node		Cabinet Routeworks		Tunnel		Earth Farm		Pedestrian Access Point		Platform
	2034m Cable Description Copper		Screening Conductor Fibre		Screening Conductor		Mid Length Sheath Gap Fibre		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Sheath Gap Copper		Buffer Stop		Telephone		Cable Pull
	492m Cable Description Copper		Screening Conductor		Screening Conductor		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Tunnel		Earth Farm		Telephone		Cable Pull

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
DA	08/08/2008	1st Issue	MT	PW-B	SW
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT

Contractor(s)

NTS

Design

Designed	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Drawn	Michal Taraj	Sign.	Date	20/08/2008
Checked	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Approved	Steve Witt	Sign.	Date	20/08/2008

FTN / GSM-R Project Stage 2 Design

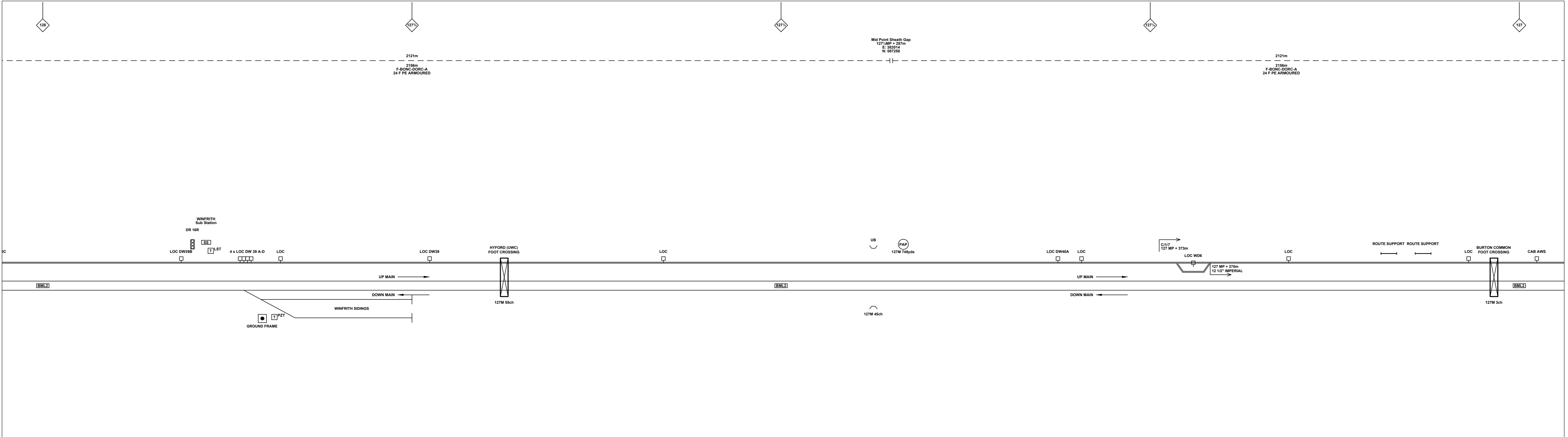
Moreton Station (1112)
Wool Station (1113)

Alternative Reference: See Layout Tab A3 Sheets 3 and 4

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 2 of 5

Revision: B



Legend

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Manhole details: Green - To be used Red - In use Clear - Empty		Overbridge		Signal		Engineer's Line Reference		Crossing		Gas Line
	Cabinet with Regenerator and Verts		Fibre Joint		Copper Cable		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Mid Length Sheath Gap Fibre		Underbridge		Vehicle Access Point		Mile Post		Gantry		HV Cable
	523m Cable Description Copper		Screening Conductor Joint with/without Earth		Fibre Cable		Manhole		FTN Access Node		Cabinet Routeworks		Sheath Gap Copper		Platform		Pedestrian Access Point		Telephone		Cable Pull		LV Cable
	2034m Cable Description Copper		484m Cable Description Fibre		Screening Conductor		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Tunnel		Earth Farm		Buffer Stop		Water		AC Stanchion				Sewer
	492m Cable Description Fibre		218435-517826/314821-519242 Fibre		Screening Conductor																		Telecoms

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
DA	08/08/2008	1st Issue	MT	PW-B	SW
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT

Contractor(s)

Designed	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Drawn	Michal Taraj	Sign.	Date	20/08/2008
Checked	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Approved	Steve Witt	Sign.	Date	20/08/2008

Project

FTN / GSM-R Project
Tournament House
Paddington
London
W2 1PL

Design

ELR & Mileage
BML2

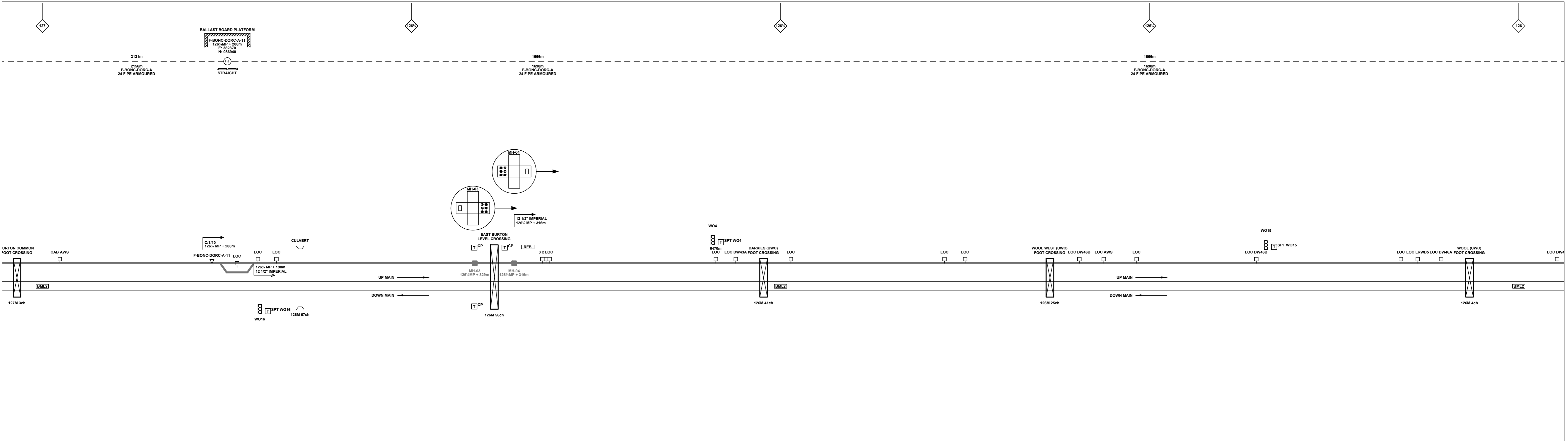
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Moreton Station (1112)
Wool Station (1113)

Alternative Reference: See Layout Tab A3 Sheets 5 and 6

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 3 of 5
Revision: B



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks
Cable Description Copper	Screening Conductor Joint with/without Earth	Fibre Cable	Manhole	FTN Access Node	Cabinet Routeworks
Cable Description Fibre	Screening Conductor	Cable Description Screening Conductor	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks
Manhole details: Green-To be used, Red-In use, Clear-Empty	Tunnel	Overbridge	Signal	Engineer's Line Reference	Crossing
Underbridge	Signal	Signal	Vehicle Access Point	Mile Post	Gantry
Earth Farm	Buffer Stop	Telephone	Pedestrian Access Point	Platform	Cable Pull
			Gas Line	AC Stanchion	HV Cable
			LV Cable		Sewer
			Telecoms		Water

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Status
DA	08/08/2008	1st Issue	MT	PW-B	SW	Design
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW	Design
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT	Design

Contractor(s)

NTS	BML2
-----	------

Design

Designed	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Drawn	Michal Taraj	Sign.	Date	20/08/2008
Checked	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Approved	Steve Witt	Sign.	Date	20/08/2008

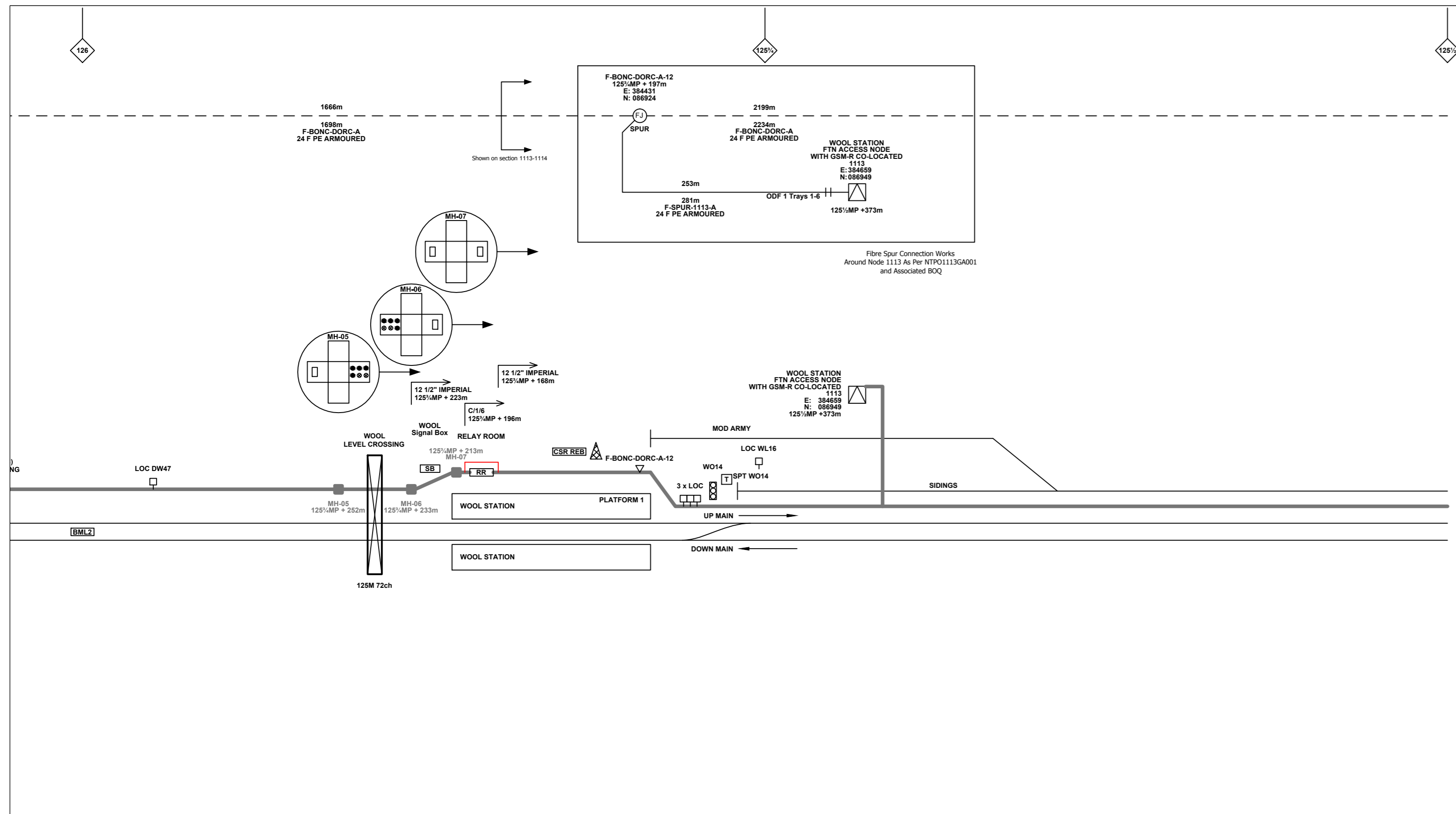
Drawing Title: FTN / GSM-R Project Stage 2 Design
Moreton Station (1112)
Wool Station (1113)

FTN/GSM-R Project
Tournament House
Paserington
London
WC1A 9TA

Alternative Reference: See Layout Tab A3 Sheets 7 and 8

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 4 of 5
Revision: B



Legend

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Manhole		Mid Length Sheath Gap Fibre		Sheath Gap Copper		FTN Access Node		Cabinet Routeworks		Fibre Joint Routeworks		Overbridge		Signal		Engineer's Line Reference		Crossing		Gantry		Cable Pull		AC Stanchion										
	Cabinet with Regenerator and Verts		Fibre Joint		Copper Cable		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Screening Conductor Joint with/without Earth		Screening Conductor		FTN Access Node with GSM-R Colocated		Manhole details: Green-To be used, Red-In use, Clear-Empty		Underbridge		Vehicle Access Point		Pedestrian Access Point		Gas Line		HV Cable		LV Cable		Sewer		Telecoms		Water		Mile Post		Platform		Telephone		Copper Blue Fibre		Screen Green

Cable Description

540m C-DORC-RGAC-A 30PR/0.63mm Copper	1988m F-DORC-RGAC-A 24 Optic Fibre	492m 218435-517828/314821-519242 150sq mm 19/3.25mm
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Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr	Status
DA	08/08/2008	1st Issue	MT	PW-B	SW	Design
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW	Design
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT	Design

Contractor(s)

NTS	ELR & Meege
-----	-------------

Design

Designed	Phil Wilson-Barnes	Sign.		Date	20/08/2008
Drawn	Michal Taraj	Sign.		Date	20/08/2008
Checked	Phil Wilson-Barnes	Sign.		Date	20/08/2008
Approved	Steve Witt	Sign.		Date	20/08/2008

Project

FTN / GSM-R Project
Stage 2 Design

Drawing Title

Moreton Station (1112)
Wool Station (1113)

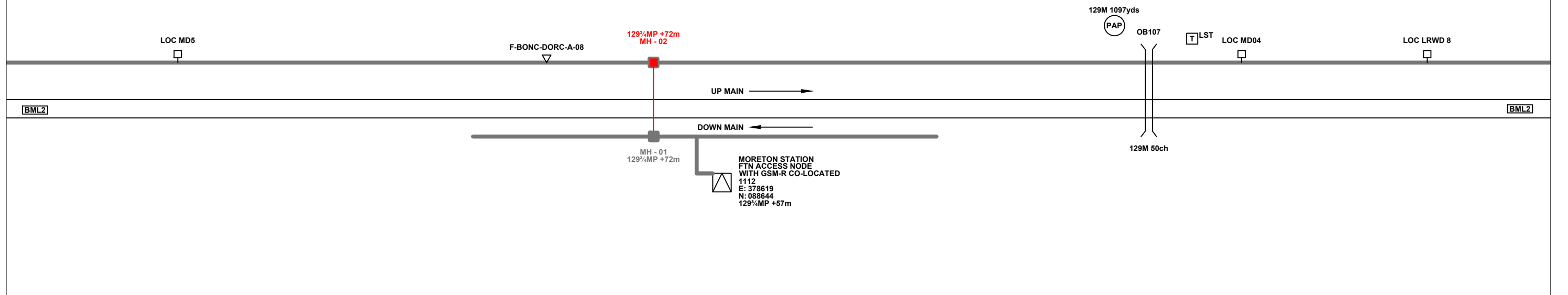
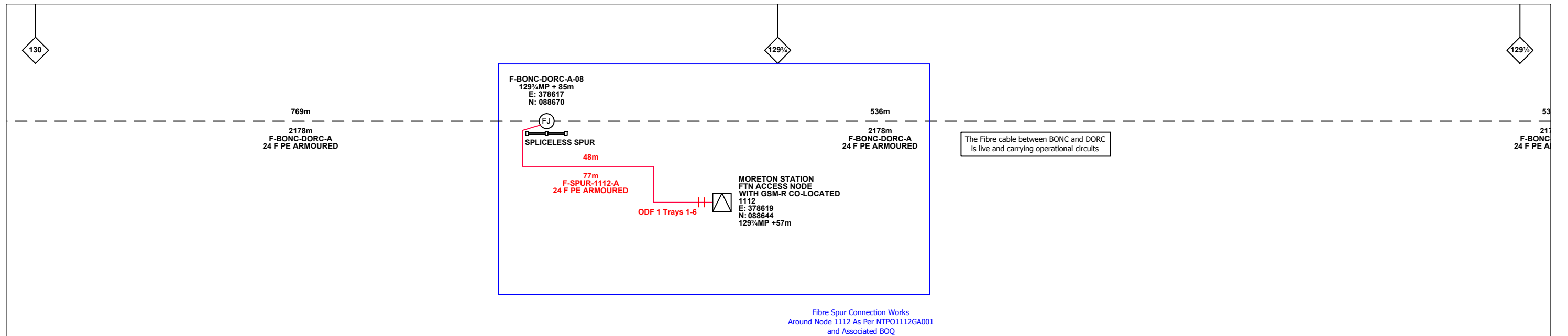
FTN/GSM-R Project
Tournament House
Pasigton
London
WC 1HA

Alternative Reference: See Layout Tab A3 Sheet 9

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 5 of 5

Revision: B



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	GAS — GAS — Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	VAP Access Point	Mile Post	Gantry	HV — HV — HV Cable
523m Cable Description Copper	Screening Conductor Joint with/without Earth	Fibre Cable	Manhole	FTN Access Node	Cabinet Routeworks	Tunnel	PAP Access Point	Platform	v — v — Water	AC Stanchion
540m C-DIDC-RGAC-A 30PR/0.63mm	1988m Cable Description Fibre	Screening Conductor	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Manhole details: Green-To be used Red-In use Clear-Empty	Earth Farm	Buffer Stop	Telephone	Copper Blue Fibre Red Screen Green
492m Cable Description Screening Conductor	218435-517828/314821-519242 150sq mm 19/3.25mm	Sheath Gap Copper	Sheath Gap Copper							

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
DA	08/08/2008	1st Issue	MT	PW-B	SW
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT

Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML2

Designed	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Drawn	Michal Taraj	Sign.	Date	20/08/2008
Checked	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Approved	Steve Witt	Sign.	Date	20/08/2008
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Moreton Station (1112) Wool Station (1113)			

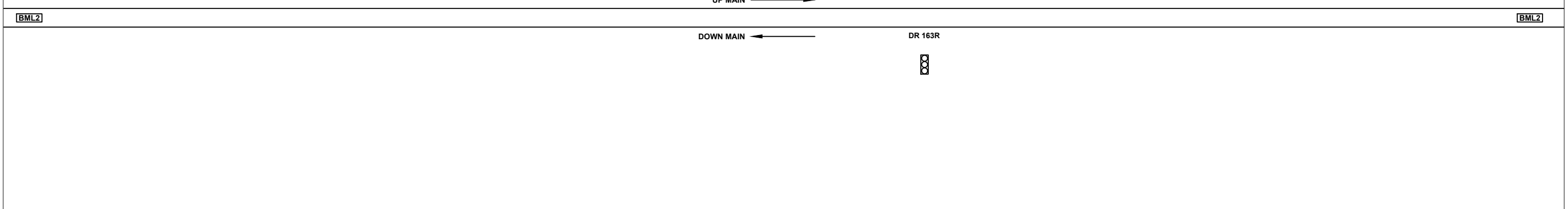
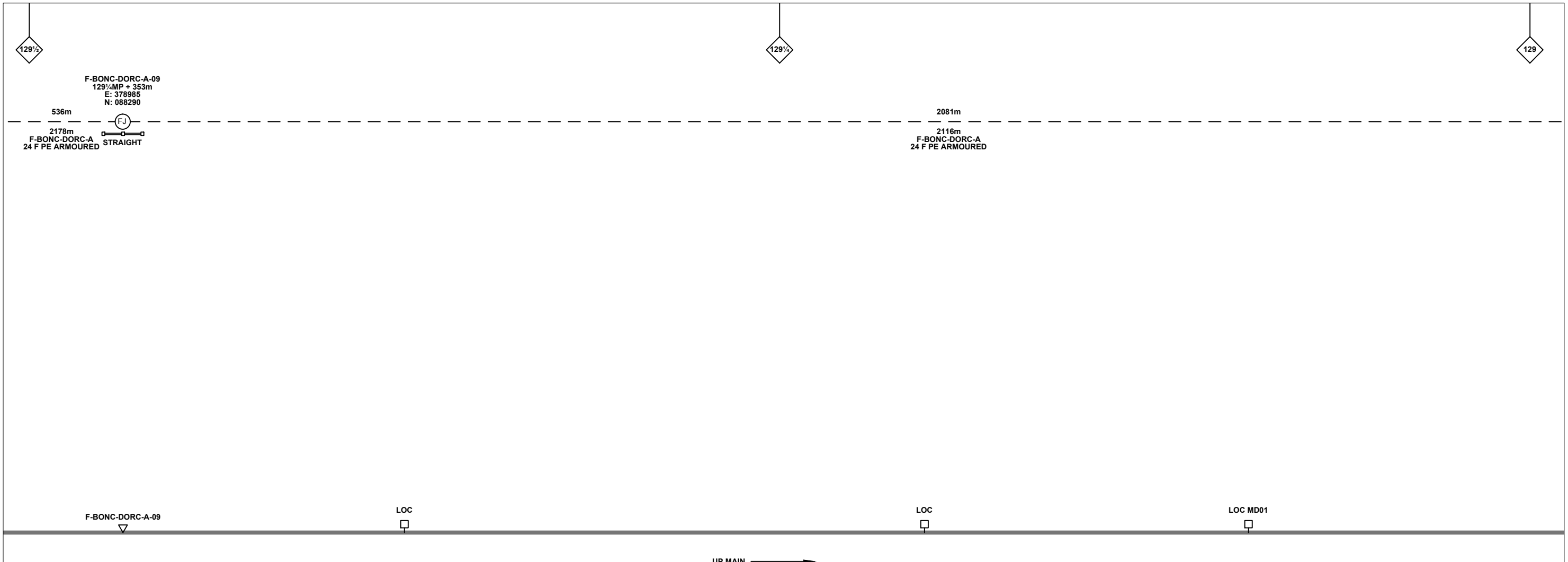
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 1 of 9

Revision: B



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	HV Cable	LV Cable
523m Cable Description Copper	1988m Cable Description Fibre	484m Cable Description Screening Conductor	Manhole	FTN Access Node	Cabinet Routeworks	Manhole details: Green-To be used, Red-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	Telecoms
540m C-DIDC-RGAC-A 30PR/0.63mm	2034m F-DIDC-RGAC-A 24 Optic Fibre	492m 218435-517828/314821-519242 150sq mm 19/3.25mm	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Telephone	Water
540m C-DIDC-RGAC-A 30PR/0.63mm	1988m Cable Description Fibre	484m Cable Description Screening Conductor	Sheath Gap Copper						Cable Pull	AC Stanchion

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
DA	08/08/2008	1st Issue	MT	PW-B	SW
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT

Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML2

Designed	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Drawn	Michal Taraj	Sign.	Date	20/08/2008
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Approved	Steve Witt	Sign.	Date	20/08/2008
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Moreton Station (1112) Wool Station (1113)			

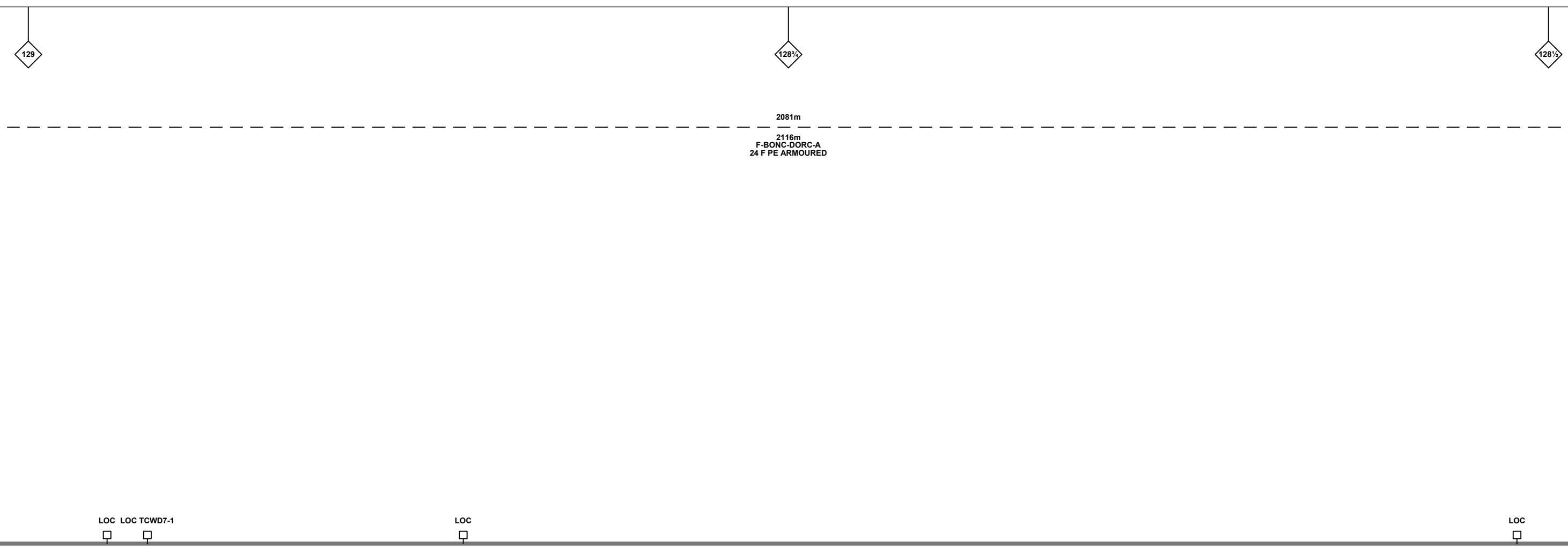
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 2 of 9

Revision: **B**



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable
523m Cable Description Copper	Screening Conductor Joint with/without Earth	Fibre Cable	Manhole	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Sewer	LV Cable
540m C-DIDC-RGAC-A 30PR/0.63mm	1988m Cable Description Fibre	Screening Conductor	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Water	AC Stanchion
2034m F-DIDC-RGAC-A 24 Optic Fibre	484m Cable Description Screening Conductor	Sheath Gap Copper	Manhole							
218435-517828/314821-519242 150sq mm 19/3.25mm										

Manhole details: Green-To be used, Red-In use, Clear-Empty

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
DA	08/08/2008	1st Issue	MT	PW-B	SW
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Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML2

Designed	Phil Wilson-Barnes	Sign.	Date	20/08/2008
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Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Moreton Station (1112) Wool Station (1113)			

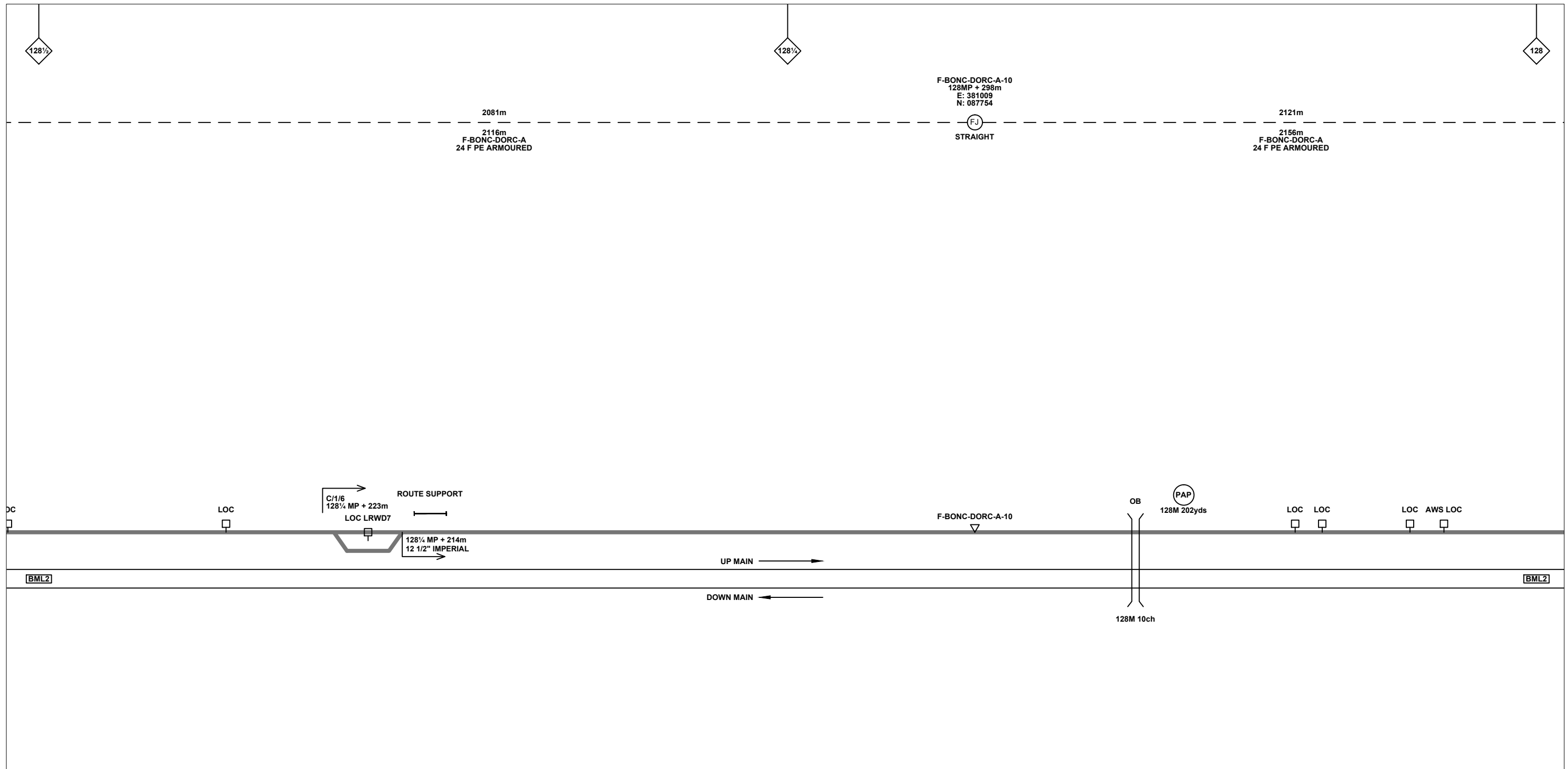
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 3 of 9

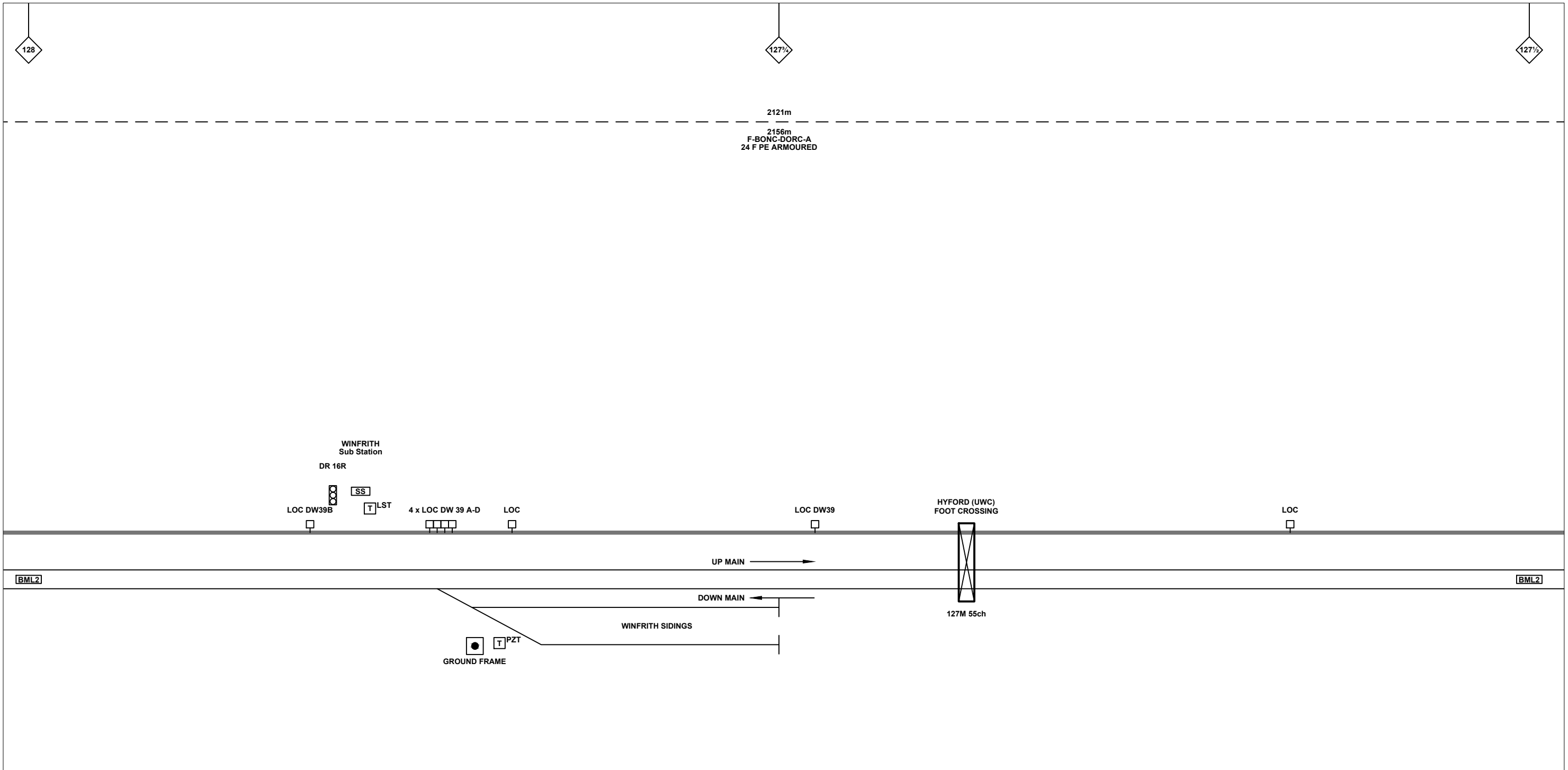
Revision: B



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	HV Cable	LV Cable
523m Cable Description Copper	Screening Conductor Joint with/without Earth	Fibre Cable	Manhole	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Sewer	Telecoms
540m C-DIDC-RGAC-A 30PR/0.63mm	1988m Cable Description Fibre	Screening Conductor Cable Description	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Water	AC Stanchion
2034m F-DIDC-RGAC-A 24 Optic Fibre	484m Cable Description Fibre	492m Cable Description Screening Conductor	Sheath Gap Copper							
	218435-517828/314821-519242 150sq mm 19/3.25mm									

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Rev	Date	Description of Revisions	Drawn	Chkd	Appr																														
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Scale(s) NTS			ELR & Mileage BML2			Drawing Title Moreton Station (1112) Wool Station (1113)			FTN/GSM-R Project Tournament House Paddington London W2 1HA Alternative Reference See Layout Tab 841 x 297 Sheet 2 Sheet 4 of 9																										
Drawing Number NTPO\SLD\1112\1113\001						Revision B																													



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable
523m Cable Description Copper	Screening Conductor Joint with/without Earth	Fibre Cable	Manhole	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Sewer	LV Cable
540m C-DIDC-RGAC-A 30PR/0.63mm	1988m Cable Description Fibre	Screening Conductor	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Water	AC Stanchion
2034m F-DIDC-RGAC-A 24 Optic Fibre	484m Cable Description Screening Conductor	Cable Description Screening Conductor	Sheath Gap Copper							
492m 218435-517828/314821-519242 150sq mm 19/3.25mm										

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
DA	08/08/2008	1st Issue	MT	PW-B	SW
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT

Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML2

Designed	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Drawn	Michal Taraj	Sign.	Date	20/08/2008
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Approved	Steve Witt	Sign.	Date	20/08/2008
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Moreton Station (1112) Wool Station (1113)			

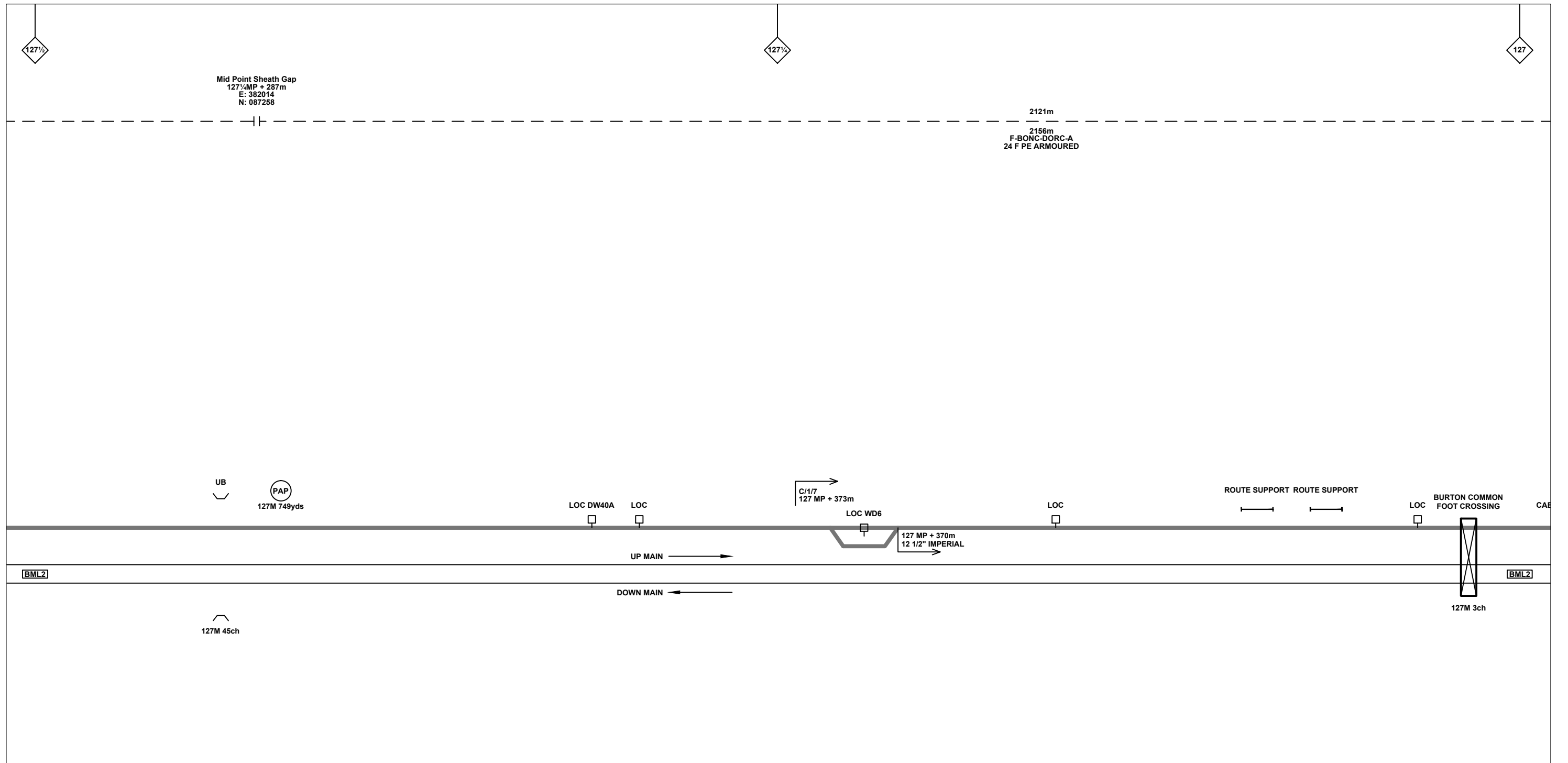
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 5 of 9

Revision: B



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	GAS — GAS — Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	VAP Access Point	Mile Post	HV — HV — HV Cable	LV — LV — LV Cable
523m Cable Description Copper	Screening Conductor Joint with/without Earth	Fibre Cable	Manhole	FTN Access Node	Cabinet Routeworks	Tunnel	PAP Access Point	Platform	SEW — SEW — Sewer	TEL — TEL — Telecoms
540m C-DIDC-RGAC-A 30PR/0.63mm	1988m Cable Description Fibre	Screening Conductor	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	v — v — Water	AC Stanchion
492m Cable Description Screening Conductor	2034m F-DIDC-RGAC-A 24 Optic Fibre	218435-517828/314821-519242 150sq mm 19/3.25mm	Sheath Gap Copper		Manhole details: Green-To be used, Red-In use, Clear-Empty					

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
DA	08/08/2008	1st Issue	MT	PW-B	SW
A	11/12/2008	Nodes 1112 & 1113 Moved	MT	PW-B	SW
B	17/11/2010	Stage 2 Design - First Issue	BW	JW	CT

Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML2

Designed	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Drawn	Michal Taraj	Sign.	Date	20/08/2008
Checked	Phil Wilson-Barnes	Sign.	Date	20/08/2008
Approved	Steve Witt	Sign.	Date	20/08/2008
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Moreton Station (1112) Wool Station (1113)			

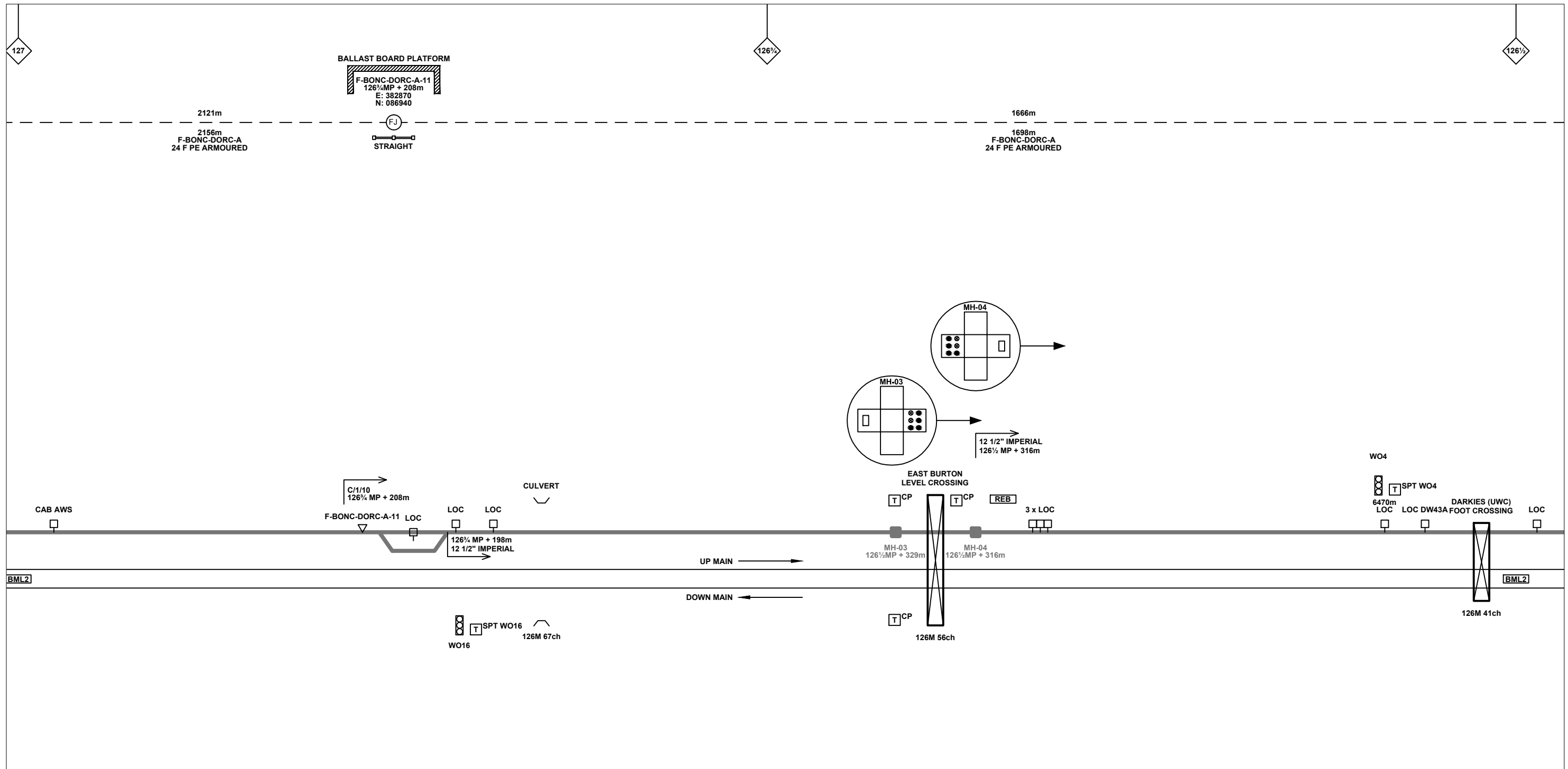
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Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\1112\1113\001

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Revision: B



Legend

	Cabinet and Verts		Copper Joint		Trough Duct Cable Tray		Signal Box		FTN Core Node		Screen Joint Routeworks		Overbridge		Signal		Engineer's Line Reference		Crossing		GAS	Gas Line		
	Cabinet with Regenerator and Verts		Fibre Joint		Copper Cable		Electrical Control Room		Core Node with GSM-R Colocated		Copper Joint Routeworks		Underbridge		Vehicle Access Point		Mile Post		Gantry		HV	HV Cable		
	523m Cable Description Copper		Screening Conductor Joint with/without Earth		Fibre Cable		Manhole		FTN Access Node		Cabinet Routeworks		Tunnel		Pedestrian Access Point		Platform		SEW	Sewer		LV	LV Cable	
	540m C-DIDC-RGAC-A 30PR/0.63mm		1988m Cable Description Fibre		Screening Conductor		Mid Length Sheath Gap Fibre		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Earth Farm		Buffer Stop		Telephone		v	Water		Cable Pull		AC Stanchion
	2034m F-DIDC-RGAC-A 24 Optic Fibre		484m Cable Description Screening Conductor		Sheath Gap Copper		Manhole details: Green-To be used Red-In use Clear-Empty																	

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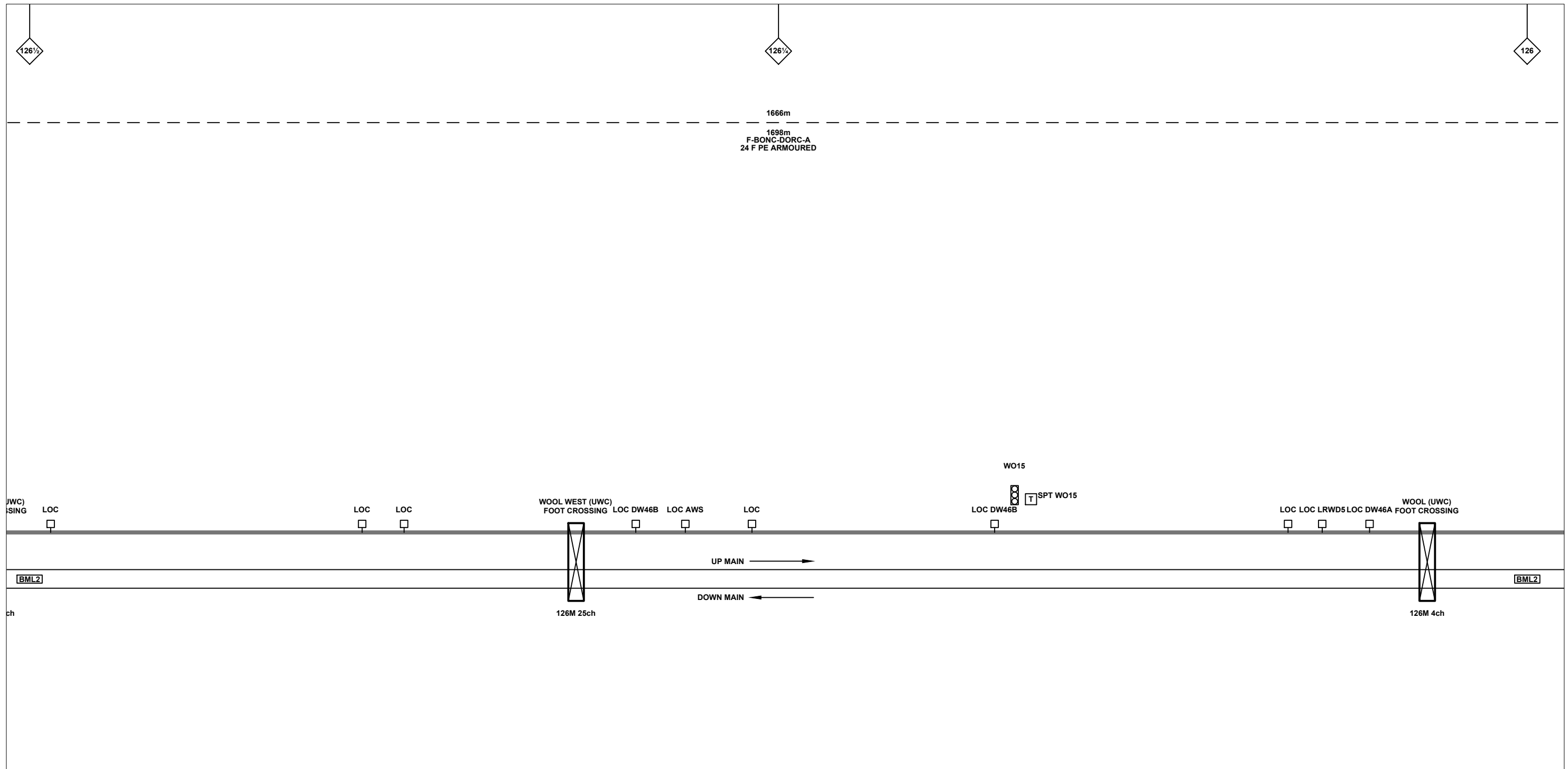
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Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Drawing Number: NTPO\SLD\1112\1113\001

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Revision: B



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV Cable
523m Cable Description Copper	1988m Cable Description Fibre	484m Screening Conductor	Manhole	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	Sewer	LV Cable
540m C-DIDC-RGAC-A 30PR/0.63mm	2034m F-DIDC-RGAC-A 24 Optic Fibre	492m Screening Conductor	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Water	AC Stanchion
		218435-517828/314821-519242 150sq mm 19/3.25mm	Sheath Gap Copper							

Manhole details: Green-To be used, Red-In use, Clear-Empty

Notes

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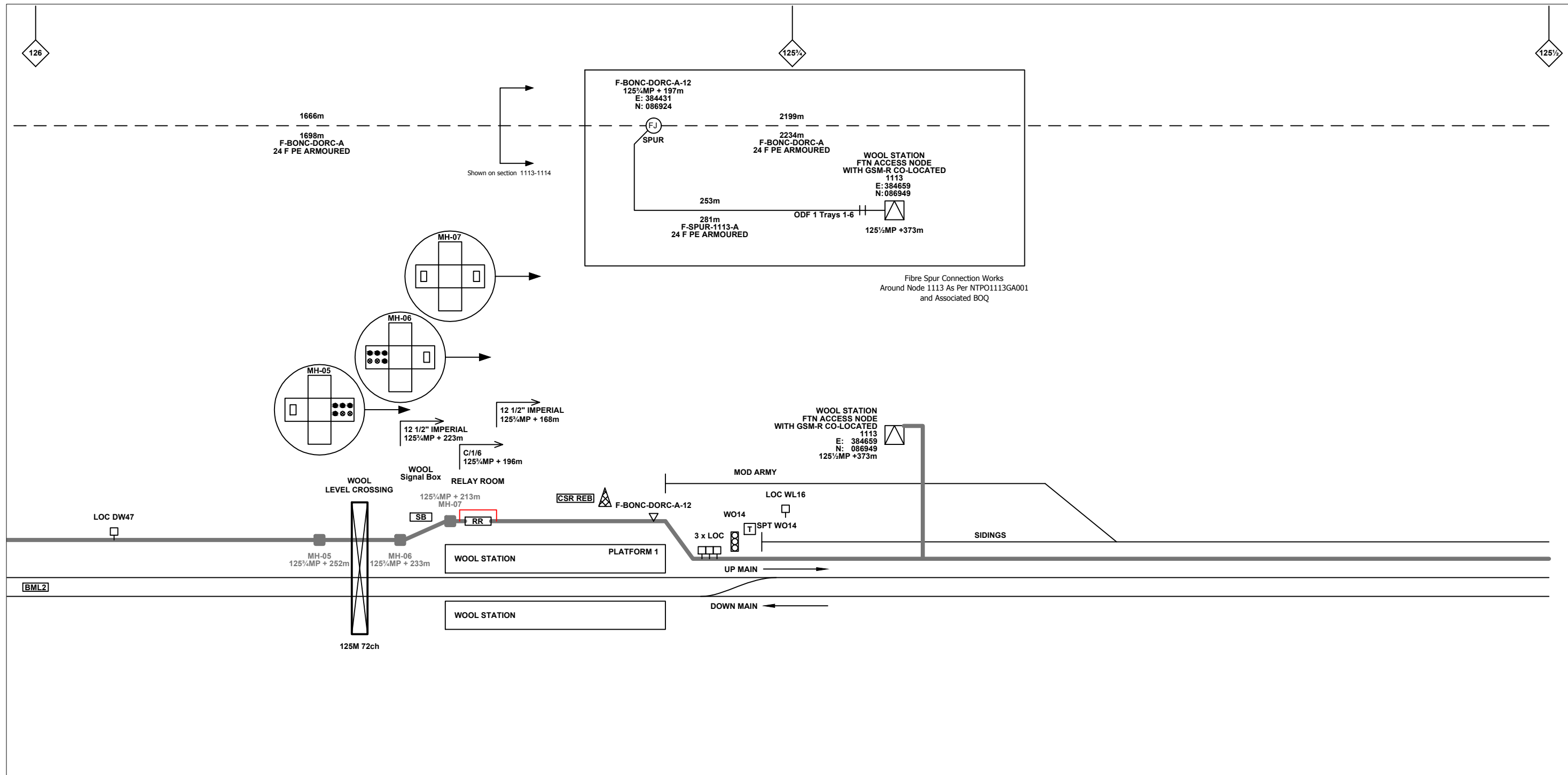
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Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Drawing Number: NTPO\SLD\1112\1113\001

Sheet: 8 of 9

Revision: **B**



Legend

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	Engineer's Line Reference	Crossing	GAS — GAS — Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Copper Cable	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV — HV — HV Cable
523m Cable Description Copper	Screening Conductor Joint with/without Earth	Fibre Cable	Manhole	FTN Access Node	Cabinet Routeworks	Tunnel	Pedestrian Access Point	Platform	SEW — SEW — Sewer	LV — LV — LV Cable
540m C-DIDC-RGAC-A 30PR/0.63mm	1988m Cable Description Fibre	Screening Conductor	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	v — v — Water	Cable Pull
2034m F-DIDC-RGAC-A 24 Optic Fibre	484m Cable Description Screening Conductor	Sheath Gap Copper	Manhole details: Green-To be used, Red-In use, Clear-Empty						AC Stanchion	

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Status	Design
Scale(s)	NTS
	ELR & Mileage BML2

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Alternative Reference: See Layout Tab 841 x 297 Sheet 5

Drawing Number: NTPO\SLD\1112\1113\001

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Revision: B