

**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	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks
Screening Conductor Joint with/without Earth	Manhole	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks
<b>KEY</b>	Existing Fibre Cable	Existing Copper Cable	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks
<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>	Existing Screen Cable		Overbridge	Signal	Engineer's Line Reference
<b>Proposed Copper Elements are shown in BLUE</b>			Underbridge	Vehicle Access Point	Mile Post
<b>Proposed Screening Elements are shown in MAGENTA</b>			Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform
<b>All Recoveries are shown in GREEN</b>			Tunnel	Earth Farm	Telephone
				Buffer Stop	Cable Pull
				Gas Line	AC Stanchion
				HV Cable	
				LV Cable	
				Sewer	
				Telecoms	
				Water	

**Notes**

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	23/11/10	Amendments As Per Network Rail Design Review	JW	SF	CT
A	19/10/10	Redrafted from NTPOSLD1111DORC001A.dwg	AB	JW	CT

**Contractor(s)**

NDC Consultants		
Drawn	Adam Bourne	Sign.
Checked	Joe Winter	Sign.
Approved	Chris Tappenden	Sign.

**Status**

**Design**

Scale(s): NTS

ELR & Message: BML3

**Project**

FTN / GSM-R Project  
Stage 2 Design

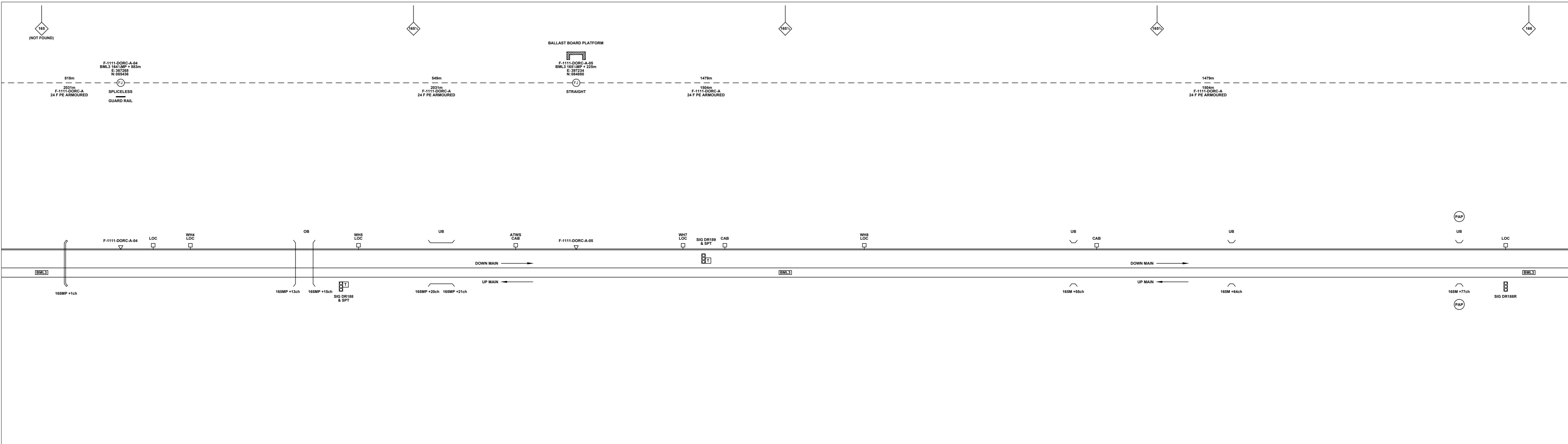
**Radipole (1111)  
to Bincombe Tunnel (6138)**

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

Alternative Reference: See Layout Tab A3 Sheets 1 and 2

Drawing Number: NTPO\SLD\1111\6138\001

Sheet 1 of 4  
Revision B



**Legend**

<b>KEY</b>	Proposed Fibre & Civils Elements are shown in RED	Proposed Copper Elements are shown in BLUE	Proposed Screening Elements are shown in MAGENTA	All Recoveries are shown in GREEN	All Existing Elements are shown in BLACK	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	Status - as per Key Below																																						

**Notes**

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	23/11/10	Amendments As Per Network Rail Design Review	JW	SF	CT
A	19/10/10	Redrafted from NTPOSLD1111DORC001A.dwg	AB	JW	CT

**Contractor(s)**

Contractor(s)	NDC Consultants
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**Status**

**Design**

Scale(s): NTS

ELR & Message: BML3

Designed	NDC Consultants	Sign.	[Signature]	Date	19/10/10
Drawn	Adam Bourne	Sign.	[Signature]	Date	19/10/10
Checked	Joe Winter	Sign.	[Signature]	Date	19/10/10
Approved	Chris Tappenden	Sign.	[Signature]	Date	19/10/10

**Project**

FTN / GSM-R Project  
Stage 2 Design

**Drawing Title**

Radipole (1111)  
to Bincombe Tunnel (6138)

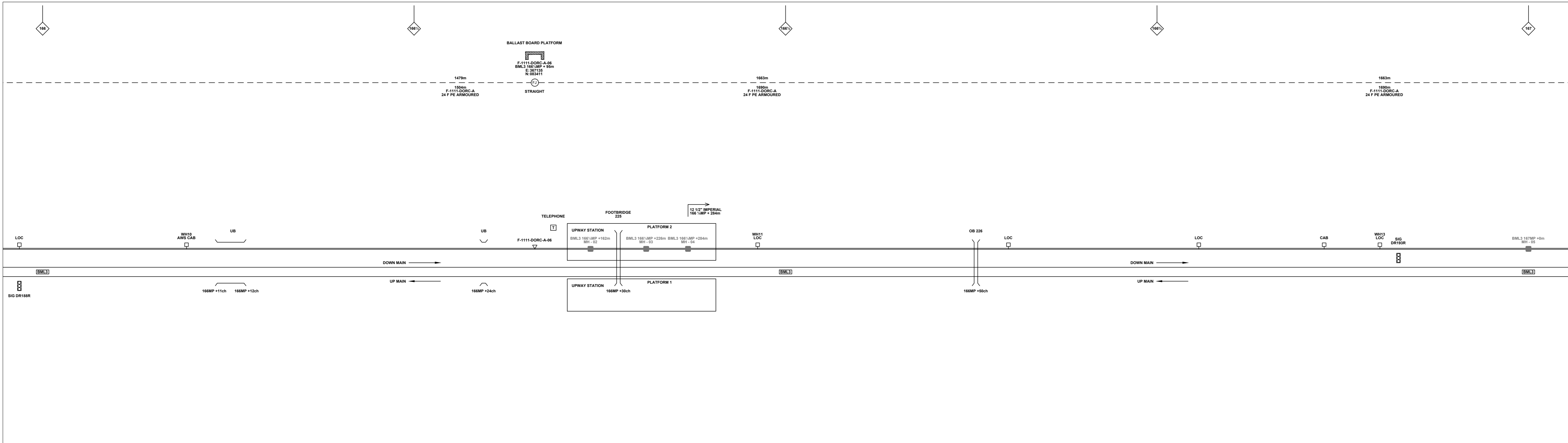
FTN/GSM-R Project  
Tottenham House  
London  
W2 1HA

Alternative Reference: See Layout Tab A3 Sheets 3 and 4

Drawing Number: NTPO\SLD\1111\6138\001

Sheet 2 of 4

Revision B



**Legend**

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Manhole	Overbridge	Signal	Engineer's Line Reference	Crossing	Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Cable - Type Identified by FTN Code	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
<b>KEY</b> Proposed Fibre & Civils Elements are shown in RED Proposed Copper Elements are shown in BLUE Proposed Screening Elements are shown in MAGENTA All Recoveries are shown in GREEN	Screening Conductor Joint with/without Earth	Status - as per Key Below	Manhole	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	Tunnel	Pedestrian Access Point	Platform	Cable Pull	LV Cable
	Existing Fibre Cable	Existing Copper Cable	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Copper Blue Fibre Red Screen Green	AC Stanchion	Sewer	Water

Manhole details:  
 Cross - To be used  
 Filled - In use  
 Clear - Empty

**Notes**

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	23/11/10	Amendments As Per Network Rail Design Review	JW	SF	CT
A	19/10/10	Redrafted from NTPOSLD1111DORC001A.dwg	AB	JW	CT

**Contractor(s)**

Status		
Design		
Scale(s)	ELR & Mileage	
NTS	BML3	

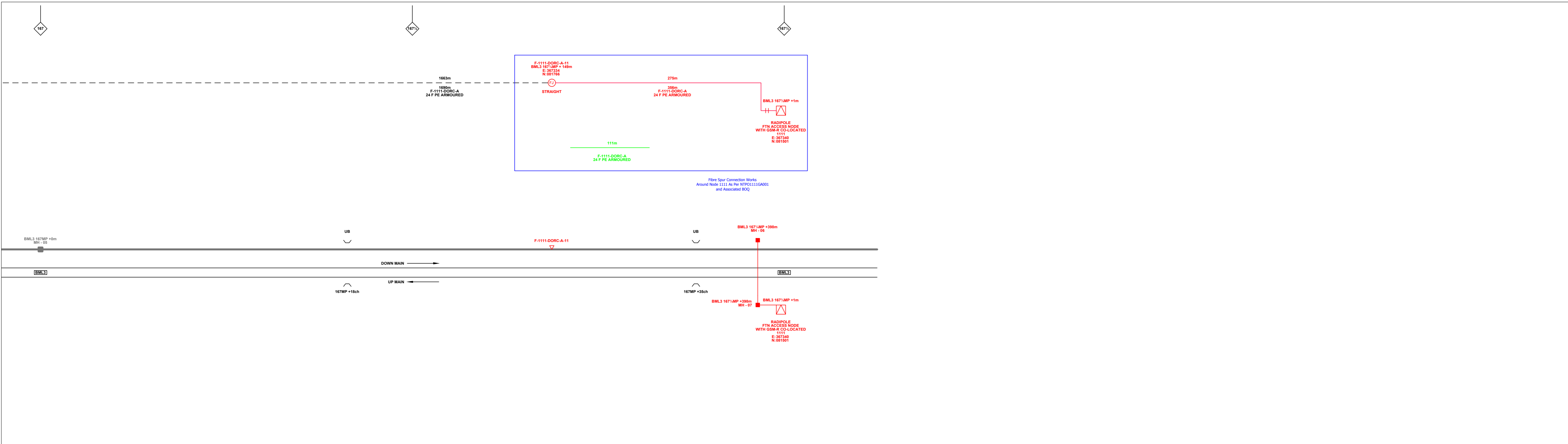
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Checked	Joe Winter	Sign.		Date	19/10/10
Approved	Chris Tappenden	Sign.		Date	19/10/10
Project	FTN / GSM-R Project Stage 2 Design				
Drawing Title	Radipole (1111) to Bincombe Tunnel (6138)				

FTN/GSM-R Project  
Tourenment House  
London  
W2 7HA

Alternative Reference: See Layout Tab A3 Sheets 5 and 6

Drawing Number: NTPO\SLD\1111\6138\001

Sheet 3 of 4  
Revision B



**Legend**

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Manhole details: Cross-To be used Filled-In use Clear-Empty	Overbridge	Signal	MLNT	Engineer's Line Reference	Crossing	GAS — GAS — Gas Line	
Cabinet with Regenerator and Verts	Fibre Joint	Cable — Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Manhole	Underbridge	VAP Vehicle Access Point	Mile Post	Platform	Gantry	HV — HV — HV Cable	
Screening Conductor Joint with/without Earth	Status — as per Key Below	Manhole Sheath Gap Fibre	Mid Length Fibre	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	Tunnel	PAP Pedestrian Access Point	Telephone	Cable Pull	SEW — SEW — Sewer	LV — LV — LV Cable	
<b>KEY</b>	<b>All Existing Elements are shown in BLACK</b>	<b>Existing Fibre Cable</b>	<b>Existing Copper Cable</b>	<b>Existing Screen Cable</b>	<b>Proposed Fibre &amp; Civils Elements are shown in RED</b>	<b>Proposed Copper Elements are shown in BLUE</b>	<b>Proposed Screening Elements are shown in MAGENTA</b>	<b>All Recoveries are shown in GREEN</b>	Earth Farm	Buffer Stop	Telephone	Copper Blue Fibre Red Screen Green	AC Stanchion

**Notes**

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	23/11/10	Amendments As Per Network Rail Design Review	JW	SF	CT
A	19/10/10	Redrafted from NTP0SLD1111DORC001A.dwg	AB	JW	CT

**Contractor(s)**

Status		
<b>Design</b>		
Scale(s)	ELR & Mileage	
NTS	BML3	

Designed	NDC Consultants	Sign.		Date	19/10/10
Drawn	Adam Bourne	Sign.		Date	19/10/10
Checked	Joe Winter	Sign.		Date	19/10/10
Approved	Chris Tappenden	Sign.		Date	19/10/10

**FTN / GSM-R Project  
Stage 2 Design**

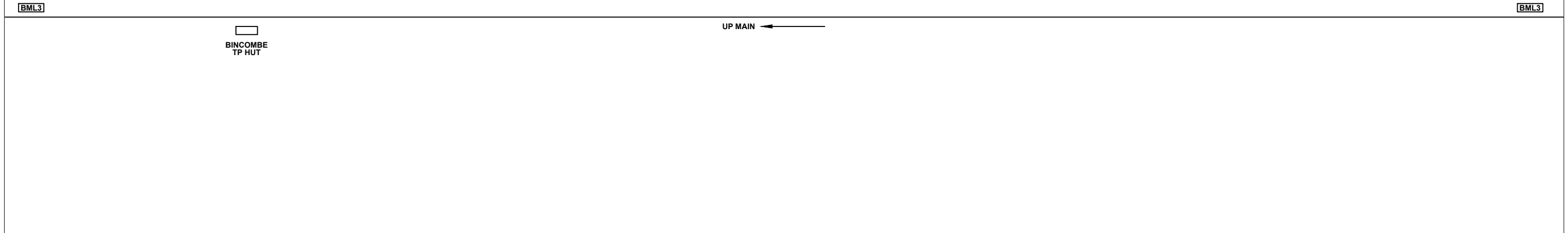
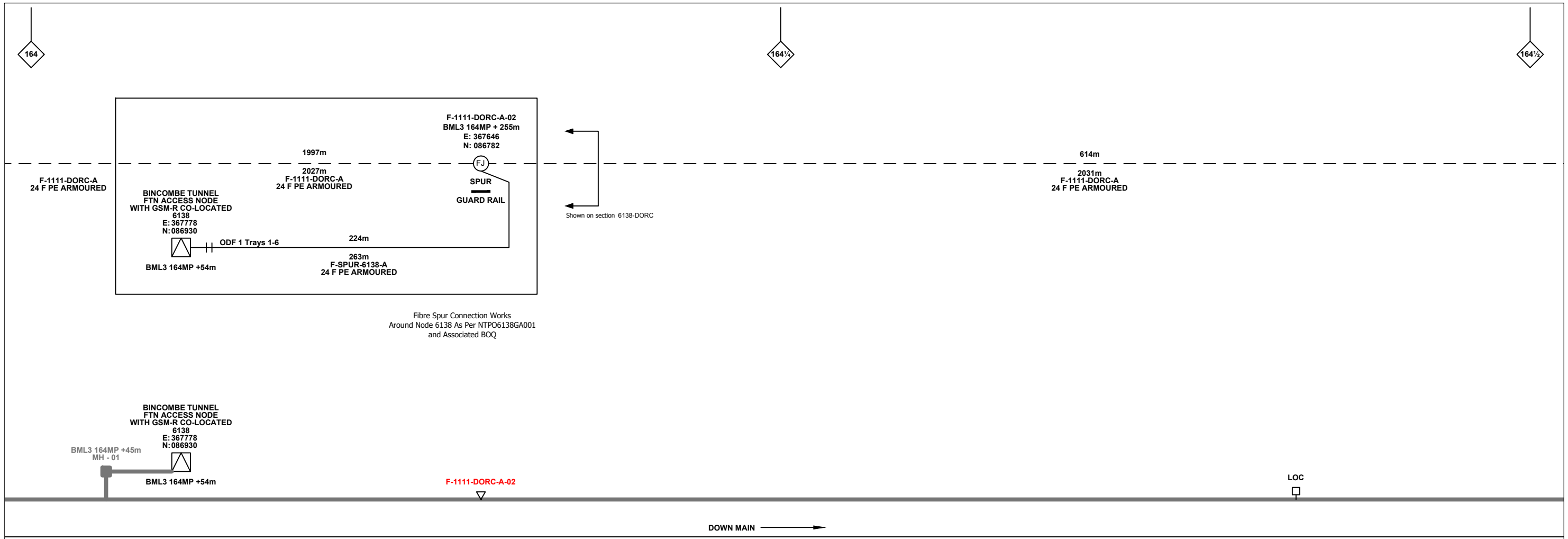
**Radipole (1111)  
to Bincombe Tunnel (6138)**

FTN/GSM-R Project  
Tottenham House  
London  
W2 7HA

Alternative Reference: See Layout Tab A3 Sheets 7 and 8

Drawing Number: NTP0\SLD\1111\6138\001

Sheet	4 of 4
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	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Manhole	Vehicle Access Point	Mile Post	HV — HV — HV Cable	LV — LV — LV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	Pedestrian Access Point	Platform	SEW — SEW — Sewer	TEL — TEL — Telecoms
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK	Tunnel	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks		Earth Farm	Buffer Stop	W — W — Water	AC Stanchion
Proposed Copper Elements are shown in BLUE		--- Existing Fibre Cable	Manhole details: Cross-To be used, Filled-In use, Clear-Empty				Telephone	Cable Pull		
Proposed Screening Elements are shown in MAGENTA		--- Existing Copper Cable								
All Recoveries are shown in GREEN		--- Existing Screen Cable								

Notes

B	23/11/10	Amendments As Per Network Rail Design Review	JW	SF	CT
A	19/10/10	Redrafted from NTP0SLD1111DORC001A.dwg	AB	JW	CT
Rev	Date	Description of Revisions	Drawn	Chkd	Appr

Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML3

Designed	NDC Consultants	Sign.	Date	19/10/10
Drawn	Adam Bourne	Sign.	Date	19/10/10
Checked	Joe Winter	Sign.	Date	19/10/10
Approved	Chris Tappenden	Sign.	Date	19/10/10
Project	<b>FTN / GSM-R Project Stage 2 Design</b>			
Drawing Title	<b>Radipole (1111) to Bincombe Tunnel (6138)</b>			

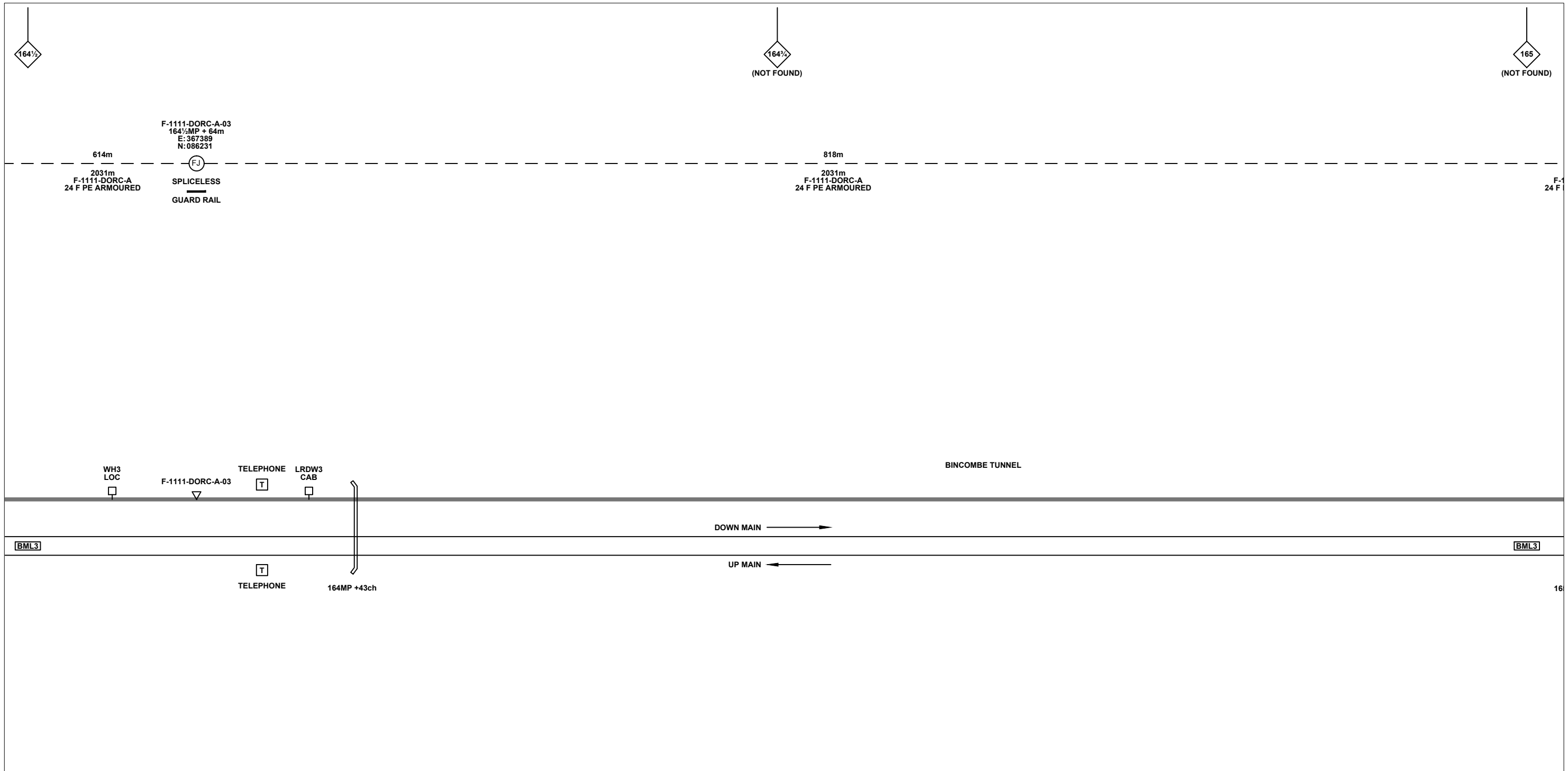
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTP0\SLD\1111\6138\001

Sheet: 1 of 7

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	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Manhole	VAP Access Point	Mile Post	HV — HV — HV Cable	LV — LV — LV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	PAP Access Point	Platform	SEW — SEW — Sewer	TEL — TEL — Telecoms
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	W — W — Water	AC Stanchion
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable								
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	23/11/10	Amendments As Per Network Rail Design Review	JW	SF	CT
A	19/10/10	Redrafted from NTPOSLD1111DORC001A.dwg	AB	JW	CT

Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML3

Designed	NDC Consultants	Sign.	Date	19/10/10
Drawn	Adam Bourne	Sign.	Date	19/10/10
Checked	Joe Winter	Sign.	Date	19/10/10
Approved	Chris Tappenden	Sign.	Date	19/10/10
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Radipole (1111) to Bincombe Tunnel (6138)			

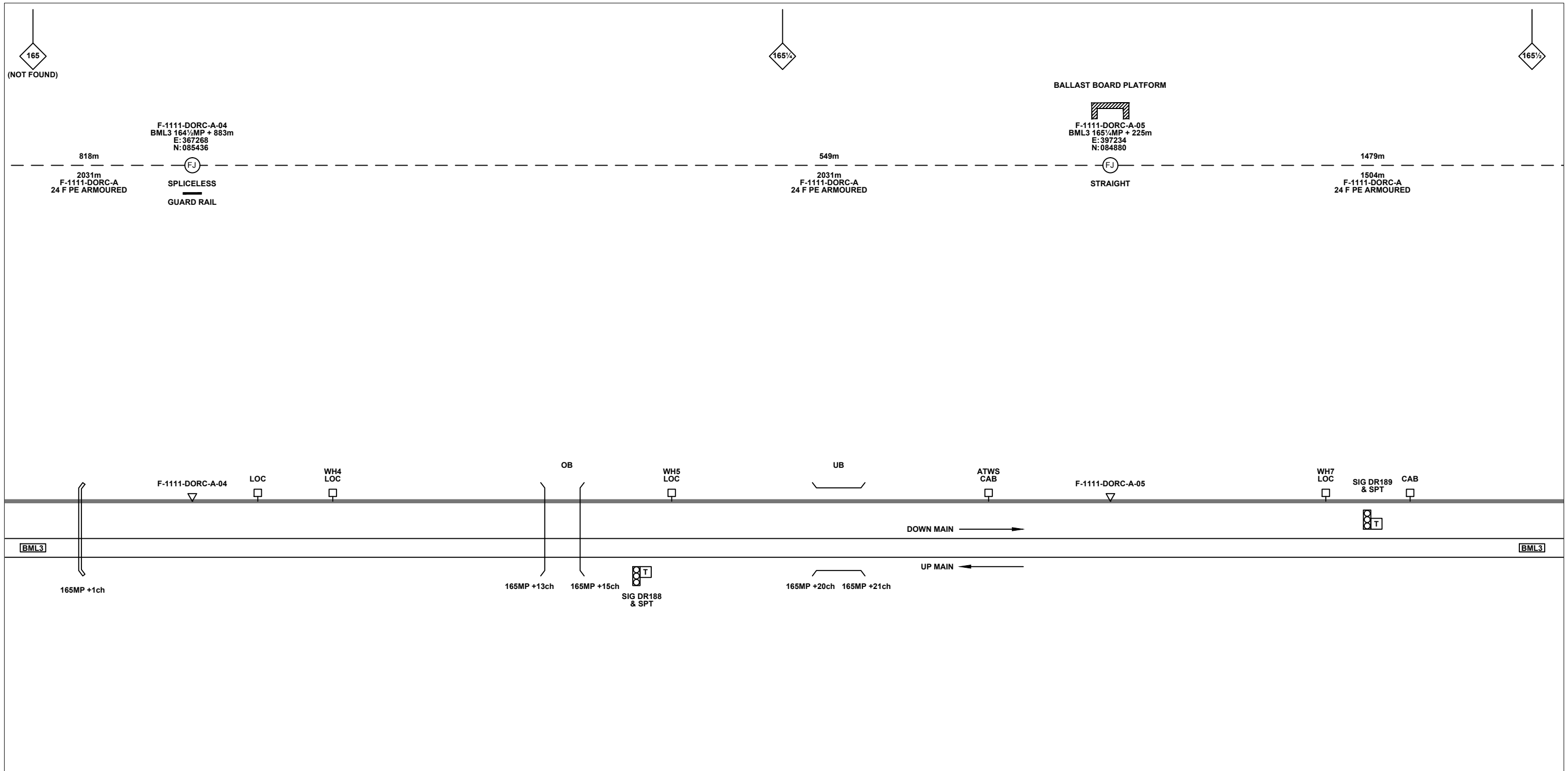
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\1111\6138\001

Sheet: 2 of 7

Revision: B



**Legend**

Cabinet and Verts	Copper Joint	Trough Duct Cable Tray	Signal Box	FTN Core Node	Screen Joint Routeworks	Overbridge	Signal	MLN1 Engineer's Line Reference	Crossing	GAS Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	VAP Vehicle Access Point	Mile Post	Gantry	HV HV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used Filled-In use Clear-Empty	PAP Pedestrian Access Point	Platform	SEW Sewer	LV LV Cable
Proposed Fibre & Civils Elements are shown in RED		Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Telephone	TEL Telecoms	W Water
Proposed Copper Elements are shown in BLUE									Cable Pull	AC Stanchion
Proposed Screening Elements are shown in MAGENTA										
All Recoveries are shown in GREEN										

Notes


Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML3

Designed	NDC Consultants	Sign.	Date	19/10/10
Drawn	Adam Bourne	Sign.	Date	19/10/10
Checked	Joe Winter	Sign.	Date	19/10/10
Approved	Chris Tappenden	Sign.	Date	19/10/10
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Radipole (1111) to Bincombe Tunnel (6138)			

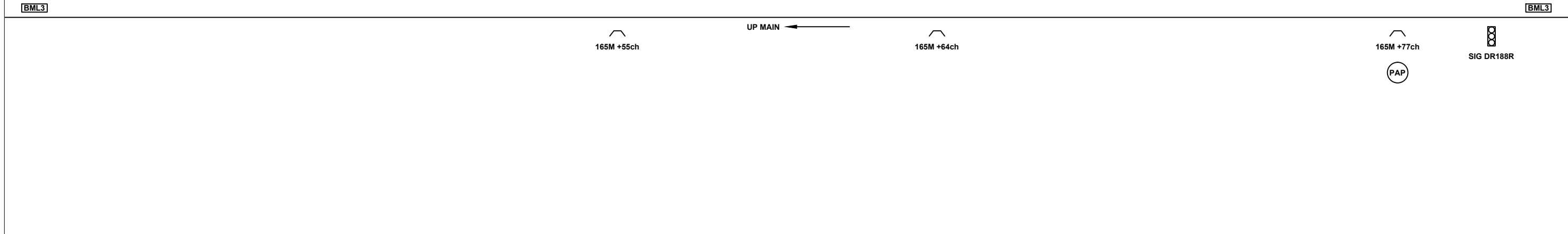
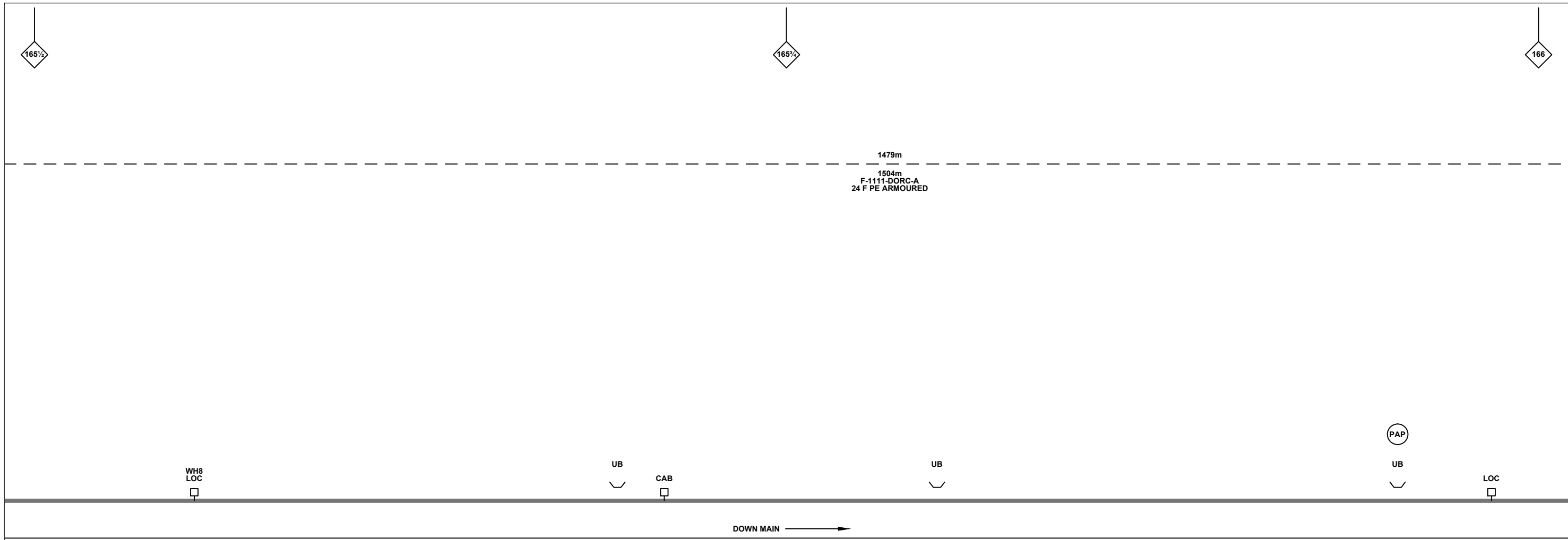
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\1111\6138\001

Sheet: 3 of 7

Revision: B

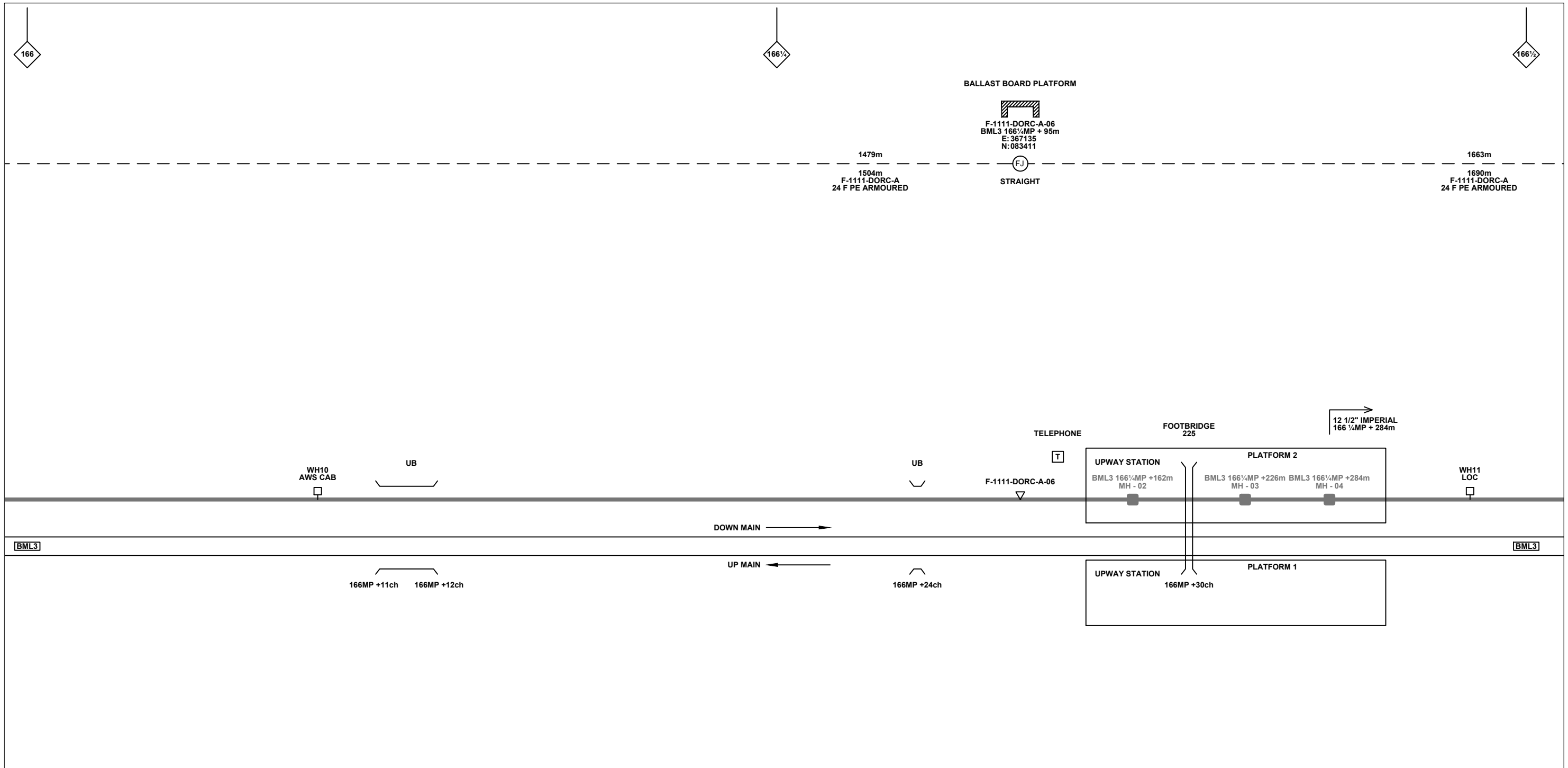


**Legend**

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	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Manhole	Vehicle Access Point	Mile Post	HV Cable	LV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used, Filled-In use, Clear-Empty	Pedestrian Access Point	Platform	Sewer	Telecoms
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK	Sheath Gap Copper	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Water	AC Stanchion
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable								
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Contractor(s)		Designed		NDC Consultants		Sign.		Date		19/10/10		
		Drawn		Adam Bourne		Sign.		Date		19/10/10		
		Checked		Joe Winter		Sign.		Date		19/10/10		
		Approved		Chris Tappenden		Sign.		Date		19/10/10		
Project		<b>FTN / GSM-R Project Stage 2 Design</b>										FTN/GSM-R Project Tournament House Paddington London W2 1HA
Drawing Title		<b>Radipole (1111) to Bincombe Tunnel (6138)</b>										Alternative Reference See Layout Tab 841 x 297 Sheet 2
Status		<b>Design</b>										Sheet 4 of 7
Scale(s)		NTS		ELR & Mileage		BML3		Drawing Number		NTPO\SLD\1111\6138\001		Revision B
Rev	Date	Description of Revisions		Drawn	Chkd	Appr						
B	23/11/10	Amendments As Per Network Rail Design Review		JW	SF	CT						
A	19/10/10	Redrafted from NTPOSLD1111DORC001A.dwg		AB	JW	CT						





**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	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV — HV — HV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Status - as per Key Below	Manhole	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used Filled-In use Clear-Empty	Pedestrian Access Point	Platform	SEW — SEW — Sewer	LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK	Mid Length Sheath Gap Fibre	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Tunnel	Earth Farm	Buffer Stop	Telephone	TEL — TEL — Telecoms
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable	Sheath Gap Copper							W — W — Water
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								Cable Pull
All Recoveries are shown in GREEN		Existing Screen Cable								AC Stanchion

Notes


Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML3

Designed	NDC Consultants	Sign.	Date	19/10/10
Drawn	Adam Bourne	Sign.	Date	19/10/10
Checked	Joe Winter	Sign.	Date	19/10/10
Approved	Chris Tappenden	Sign.	Date	19/10/10
Project	FTN / GSM-R Project Stage 2 Design			
Drawing Title	Radipole (1111) to Bincombe Tunnel (6138)			

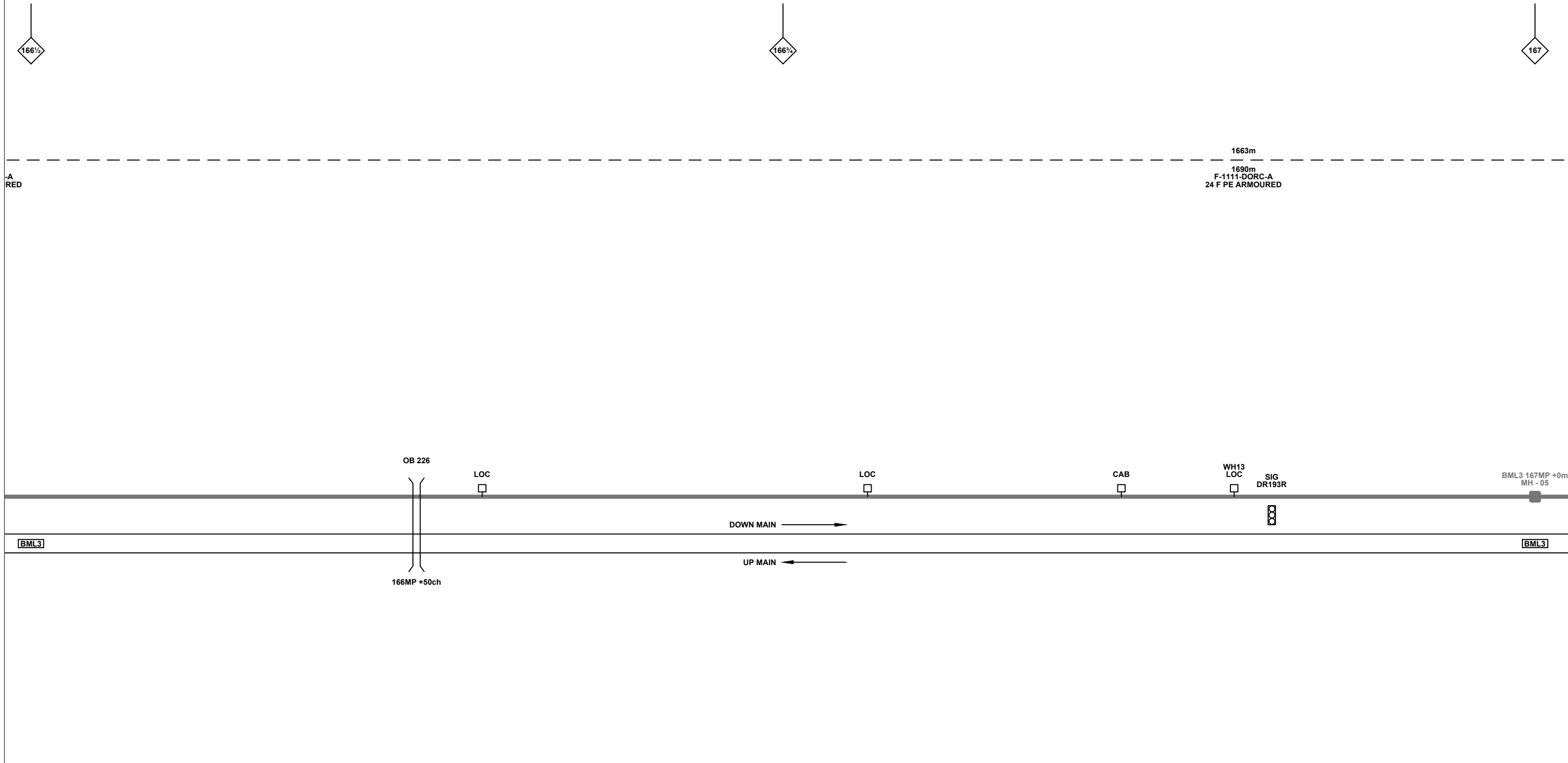
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\1111\6138\001

Sheet: 5 of 7

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	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Underbridge	Vehicle Access Point	Mile Post	Gantry	HV — HV — HV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Manhole	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Manhole details: Cross-To be used Filled-In use Clear-Empty	Pedestrian Access Point	Platform	SEW — SEW — Sewer	LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED									TEL — TEL — Telecoms	W — W — Water
Proposed Copper Elements are shown in BLUE										
Proposed Screening Elements are shown in MAGENTA										
All Recoveries are shown in GREEN										
										Earth Farm
										Buffer Stop
										Telephone
										Cable Pull
										AC Stanchion
										Copper Blue Fibre Red Screen Green

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	23/11/10	Amendments As Per Network Rail Design Review	JW	SF	CT
A	19/10/10	Redrafted from NTPOSLD1111DORC001A.dwg	AB	JW	CT

Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML3

Designed	NDC Consultants	Sign.		Date	19/10/10
Drawn	Adam Bourne	Sign.		Date	19/10/10
Checked	Joe Winter	Sign.		Date	19/10/10
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Project	<b>FTN / GSM-R Project Stage 2 Design</b>				
Drawing Title	<b>Radipole (1111) to Bincombe Tunnel (6138)</b>				

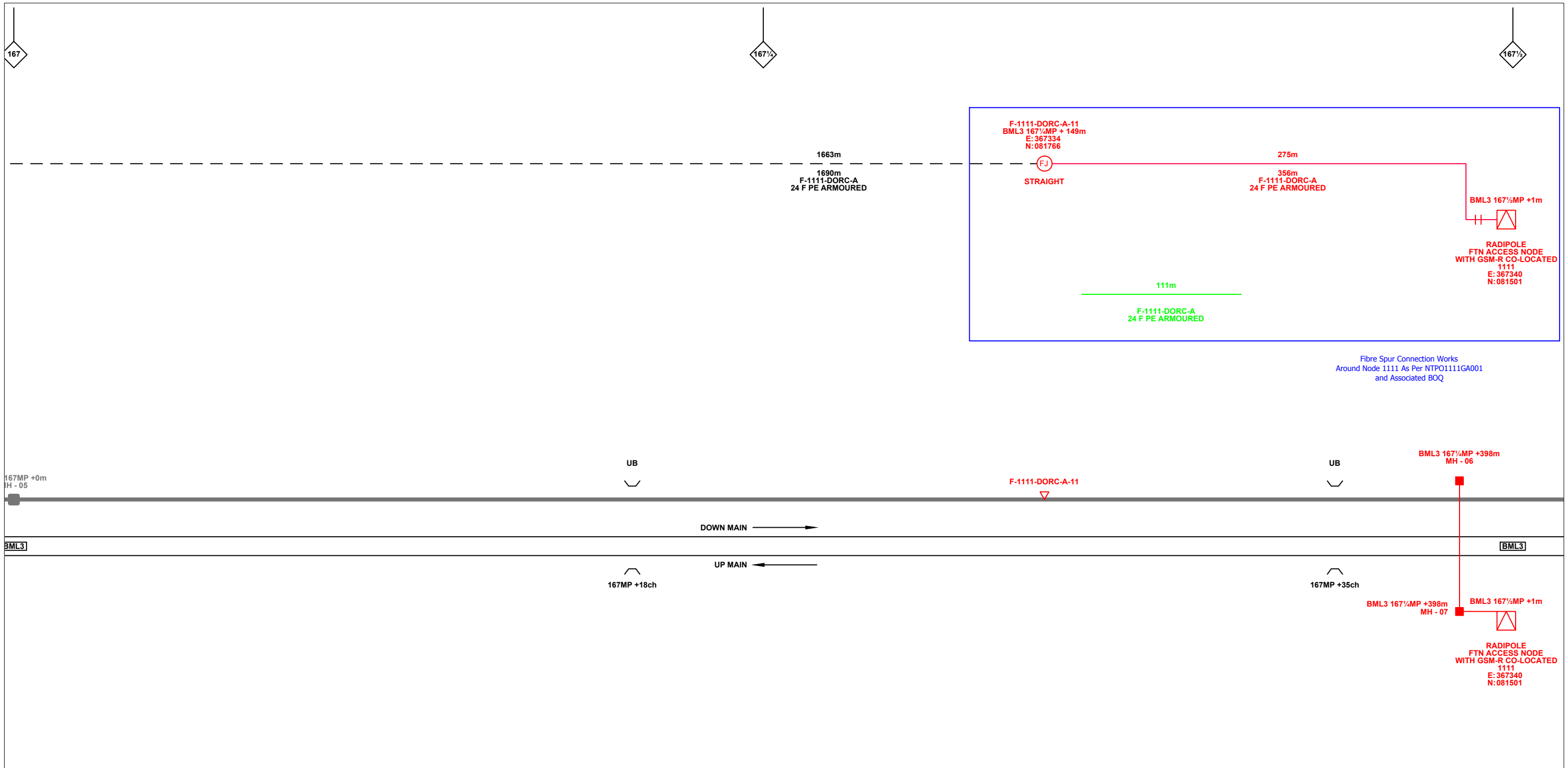
FTN/GSM-R Project  
Tournament House  
Paddington  
London  
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 3

Drawing Number: NTPO\SLD\1111\6138\001

Sheet: 6 of 7

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 — Gas Line
Cabinet with Regenerator and Verts	Fibre Joint	Cable - Type Identified by FTN Code	Electrical Control Room	Core Node with GSM-R Colocated	Copper Joint Routeworks	Manhole	VAP	Mile Post	Gantry	HV — HV — HV — HV Cable
<b>KEY</b>	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	PAP	Platform	SEW — SEW — SEW — Sewer	LV — LV — LV — LV Cable
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK	Tunnel	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks		Earth Farm	Telephone	TEL — TEL — TEL — Telecoms	W — W — W — Water
Proposed Copper Elements are shown in BLUE		Existing Fibre Cable	Manhole details: Cross-To be used, Filled-In use, Clear-Empty				Buffer Stop	Cable Pull	AC Stanchion	
Proposed Screening Elements are shown in MAGENTA		Existing Copper Cable								
All Recoveries are shown in GREEN		Existing Screen Cable								

Notes


Contractor(s)

Status: **Design**

Scale(s): NTS

ELR & Mileage: BML3

Designed	NDC Consultants	Sign.	Date	19/10/10
Drawn	Adam Bourne	Sign.	Date	19/10/10
Checked	Joe Winter	Sign.	Date	19/10/10
Approved	Chris Tappenden	Sign.	Date	19/10/10
Project	<b>FTN / GSM-R Project Stage 2 Design</b>			
Drawing Title	<b>Radipole (1111) to Bincombe Tunnel (6138)</b>			

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

Alternative Reference: See Layout Tab 841 x 297 Sheet 4

Drawing Number: NTPO\SLD\1111\6138\001

Sheet: 7 of 7

Revision: B