

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 Line		HV Cable		LV Cable		Sewer		Telecoms		Water		
	Cabinet with Regenerator and Verts		Fibre Joint		Electrical Control Room		Manhole		Core Node with GSM-R Colocated		Copper Joint Routeworks		Tunnel		Underbridge		VAP Access Point		Mile Post		Platform		Cable Pull		Copper Blue Fibre		Red Screen Green		AC Stanchion								
KEY	Proposed Fibre & Civils Elements are shown in RED	All Existing Elements are shown in BLACK																																			

Notes

Rev	Date	Description of Revisions	Drawn	Chkd	Appr
B	24/05/11	Amended As Per NWR Design Review	DA	JW	CT
A	09/12/10	Redrafted from Copper SLD EOKA-BSKC.pdf & Fibre SLD EOKA-BSKA.pdf	AB	JW	CT

ndc consultants
Unit 4 Apex Park, Wainwright Road, Worcester, Worcestershire, WR4 9FN. Tel: 01905 756000

Status: **Design**

Scale(s): ELR & Mileage
BML1

Designed	NDC Consultants	Sign.		Date	09/12/10
Drawn	Adam Bourne	Sign.		Date	09/12/10
Checked	Chris Tappenden	Sign.		Date	09/12/10
Approved	Joe Winter	Sign.		Date	09/12/10

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

Drawing Title: **Fleet (2416) to Fleet Station LDT (FSTA)**

Network Rail

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

Alternative Reference: See Layout Tab A3 Sheets 1 and 2

Drawing Number: **NTPO\SLD\2416\FSTA\001**

Revision: **B**

Sheet: **1 of 2**



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	Engineer's Line Reference
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 Access Point	Mile Post
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	Tunnel	PAP Pedestrian Access Point	Platform
Proposed Fibre & Civils Elements are shown in RED	Existing Fibre Cable	Existing Copper Cable	Existing Screen Cable	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	Crossing
Proposed Copper Elements are shown in BLUE									Gantry
Proposed Screening Elements are shown in MAGENTA									Gas Line
All Recoveries are shown in GREEN									HV Cable
									LV Cable
									Sewer
									Telecoms
									Water
									AC Stanchion

Notes

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Contractor(s)

Status Design

Scale(s) NTS

ELR & Mileage BML1

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Project FTN / GSM-R Project
Stage 2 Design

Drawing Title Fleet (2416)
to Fleet Station LDT (FSTA)

Network Rail

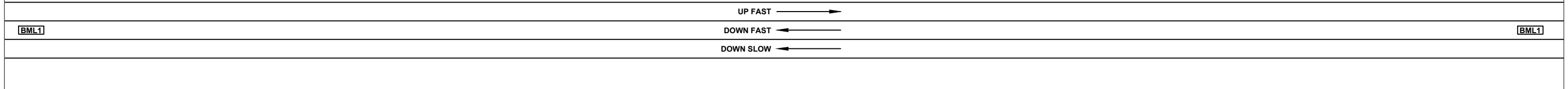
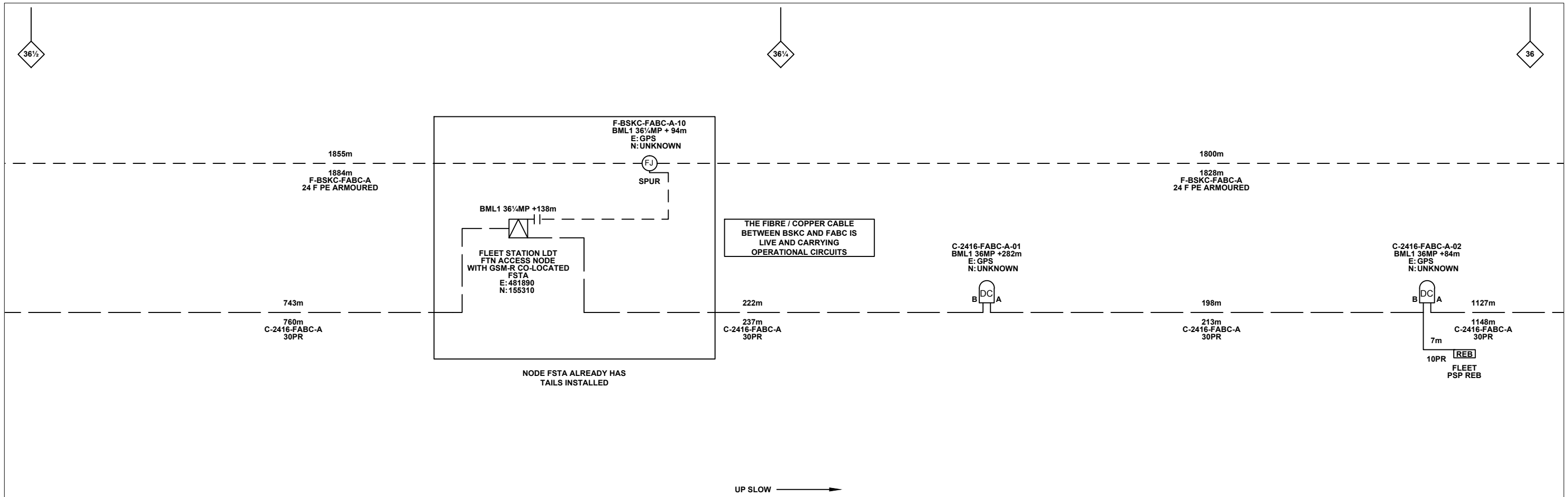
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference See Layout Tab A3 Sheets 3 and 4

Drawing Number NTPO\SLD\2416\FSTA\001

Revision B

Sheet 2 of 2



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	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	Vehicle Access Point	Mile Post	Gantry	HV — HV — HV Cable
KEY	Screening Conductor Joint with/without Earth	Status - as per Key Below	Mid Length Sheath Gap Fibre	FTN Access Node	Cabinet Routeworks	Sheath Gap Copper	Tunnel	Pedestrian Access Point	Platform	W — W — Water	Cable Pull
Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK	Existing Fibre Cable	FTN Access Node with GSM-R Colocated	Fibre Joint Routeworks	Earth Farm	Buffer Stop	Telephone	AC Stanchion	Copper Blue Fibre Red Screen Green	

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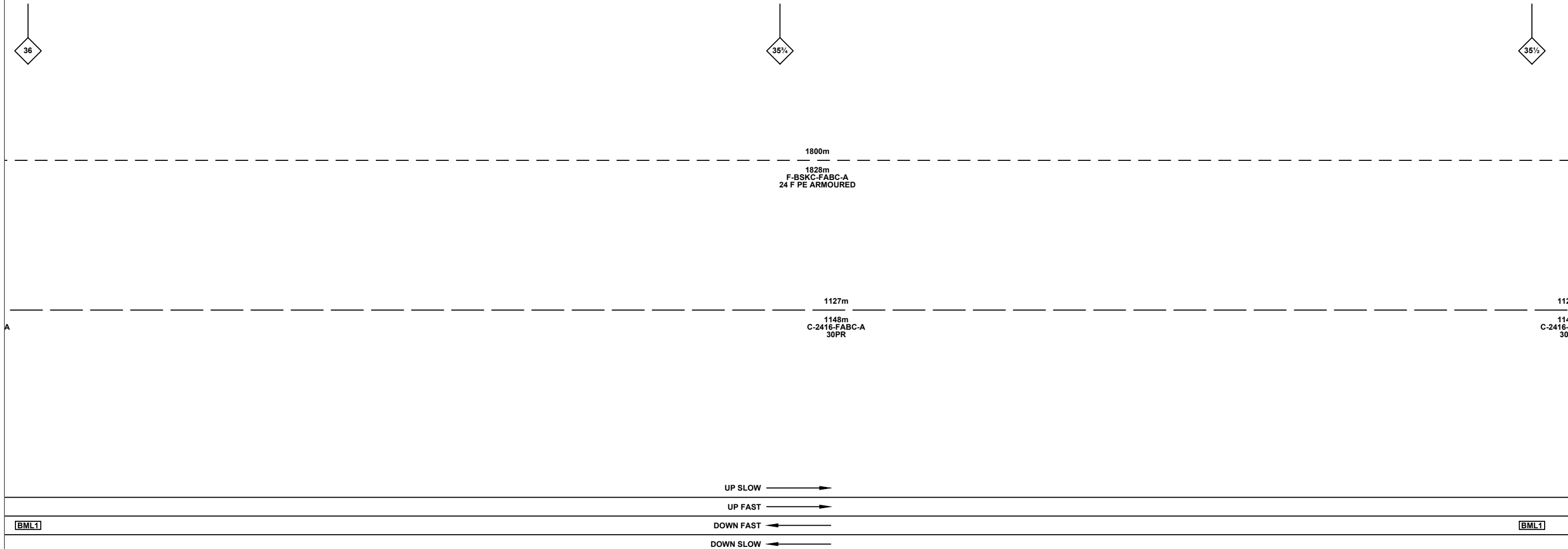
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\2416\FSTA\001

Sheet: 1 of 3

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	Manhole	VAP Vehicle Access Point	Mile Post	HV HV Cable	LV LV Cable
KEY	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 Pedestrian Access Point	Platform	SEW Sewer	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 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								

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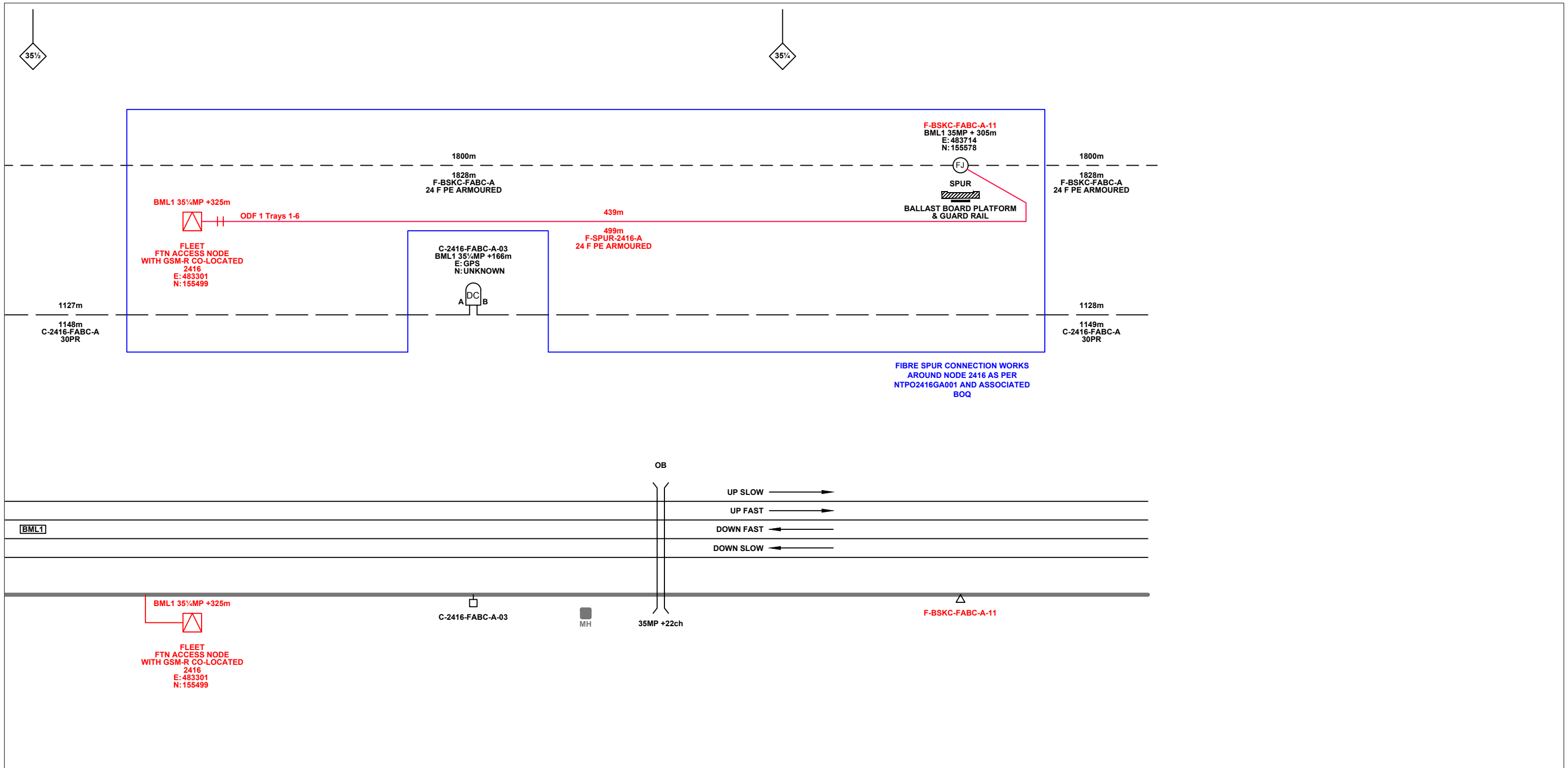
FTN/GSM-R Project
Tournament House
Paddington
London
W2 1HA

Alternative Reference: See Layout Tab 841 x 297 Sheet 1

Drawing Number: NTPO\SLD\2416\FSTA\001

Sheet: 2 of 3

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
	KEY		Screening Conductor Joint with/without Earth		Status - as per Key Below		Mid Length Sheath Gap Fibre		FTN Access Node		Cabinet Routeworks		Underbridge		Pedestrian Access Point		Platform		Sewer		Telecoms
	Proposed Fibre & Civils Elements are shown in RED		All Existing Elements are shown in BLACK		Existing Fibre Cable		Sheath Gap Copper		FTN Access Node with GSM-R Colocated		Fibre Joint Routeworks		Tunnel		Earth Farm		Buffer Stop		Telephone		Copper Blue Fibre Red Screen Green
	Proposed Copper Elements are shown in BLUE		Existing Copper Cable		Existing Screen Cable		AC Stanchion														

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FTN/GSM-R Project
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Alternative Reference: See Layout Tab 841 x 297 Sheet 2

Drawing Number: NTPO\SLD\2416\FSTA\001

Sheet: 3 of 3

Revision: B